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<u> PLU</u>	
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FI	RE	
FP	-101	

REVISION HISTORY

REV.	DATE	DESCRIPTION	SHEETS	
				_
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				_
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				-
				-

ALCOA EXCHANGE FIVE BELOW

7401 ALCOA RD BRYANT, SALINE COUNTY, AR 72022



BUILDING INFORMATION

ENT <u>: FIVE BELOW</u> DPMENT: 7401 ALCOA	RD RRYANT A	R 72022			
B. Randall, AIA	PHONE. #:	770-650-7558	STATE REGIS	. #: 3812	
ER: William Peltier, P.	<u>.E.</u> PHONE.#:	304-284-0033	STATE REGIS	. #:14464	
tion: <u>Mercantile - Exis</u>	iting				_
II-B - Unprotected - Exi	isting Sprinkle	red: Yes			_
are Feet: FIVE BELOW	± 9,000 S.F.				
-1. 201 01					
et: <u>30° - 0°</u>	Per Akkansas	<u>) ICC: 55 - 0</u>			-
I Includes: Basem	ent: <u>N/A</u> B	alcony: N/A	Mezzanine: <u>N/A</u>		_
					_
Square Feet: ± 9,000	SF				
					-
			Inanta		
	9,000 3F / 30 3F		Ipanio Described: 450 Inches		
of Occupants x .20 inch	1es/Occupant = o	8 Inches F	rovided: 156 inches		
		Required Pr	<u>ovided</u>		
Water Closet: 1	Per 500	2	2		
Drinking Fountain 1	Per 1000	∠ 1	2 2		
Utility Sink 1		1	1		
•		-			

JURISDICTION

CONTACT: DOUG SMITH, DSMITH@CITYOFBRYANT.COM

BUILDING CODE

- 2012 INTERNATIONAL BUILDING CODE
- MECHANICAL CODE: 2010 ARKANSAS STATE MECHANICAL CODE
 - AR NEC ELECTRICAL CODE, 2017 EDITION
 - 2006 ARKANSAS STATE PLUMBING CODE
 - 2006 ARKANSAS STATE FUEL GAS CODE
- LIFE SAFETY CODE: NFPA 101 LIFE SAFETY CODE, 2012 EDITION WITH STATE AMENDMENTS
 - 2012 ARKANSAS STATE FIRE CODE

THE DESIGN OF THIS PROJECT TO THE BEST OF OUR PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF COMPLIES WITH APPLICABLE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AS THEY APPLY TO THIS PROJECT. BECAUSE THE REQUIREMENTS OF THE ADA ARE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS, WE CANNOT AND DO NOT WARRANT OR GUARANTEE THAT THIS PROJECT WILL COMPLY WITH INTERPRETATIONS OF ADA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

R	A	N	D	A	L	L
Р а	A r c	U h	L i t	S e	0 c t	N s
	REGI	RUNNER B5-A M Rosw	ED A CHAEI ANDAI No.38/ MARC Aill Stree ell, Geo	CH 13 Mill et Suite 1 770 65	, 2018 200 75	
á	e-mail a r c h	archited	ets@ra	ndallpa e / i n	ulson.co t e r i	m ors
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		A DE	VELOPP I Equ Investment	MENT B	Y: Gro nent • Manag	<u>UP</u> gement
		74(BRY,)1 alc Ant, <i>A</i>	COA R Ar 720	D)22	
Рп. 13 МАРС	<i>int Record</i> CH 2018		PERM	T SET		
Re	visions					

ARCHITECTURAL ABBREVIATIONS

FER TO ENGINEERING DRAWINGS FOR ENGINEERING ABBREVIATIONS.

	PLEASE	REF
A a.c.t. a.f.f. a.h.u. alum. anod. appro arch. astm aux. B	X.	
BKBD. BLDG. C.I.P. C.J. C/L CLG. CLR. C.M.U. CNT. COL. CONC. COL. CONC. COT. CPT. C.T.		
DBL. DIA. DIV. DN. DR. D.S. DW. D.W. D.W. DWG. DWGS.		
E e.r. elec. elev., e.ms. e.p.d.m equip. e.w. e.w.h e.w.h e.w.c. ex, ex exp. ext.	el. 1. IST.	
F F.D. F.E. F.E. F.F. FT. G		
GALV. G.F.I. GR. G.W.B., H/C HDWR. H.M. HORIZ. HR.	GYB. BD.	
l I.D. I.M. IN. INCANI INSUL.).	
K. KO. KW. L L. LAM. LAV		
LB.		

А	М
ACOUSTICAL CEILING TILE ABOVE FINISHED FLOOR	MAX.
AIR HANDLING UNIT ALTERNATE	MFR.
ALUMINUM ANODIZED APPROXIMATELY	MIN.
ARCHITECTURAL AMERICAN SOCIETY FOR	MM. M.O.
TESTING MATERIALS AUXILIARY	MTD. MTL.
В	Ν
BOTTOM OF	N.A.
BACKBOARD	NEG. N.F.W.H.
BUILDING	N.I.C. NO.
С	0
CAST IN PLACE	0
CONTROL JOINT CENTERLINE CEILING	OA. O.C.
CLEAR COFFEE MAKER	O.D. O.H.
CONCRETE MASONRY UNIT COUNTER	OPNG. OPP.
CASED OPENING COLUMN CONCRETE	opp. Hand
CONTINUOUS CARPET	D
	Г
D	P.A.
DOUBLE	PAR. PERP.
DIAMETER DIVISION	PL. P. LAM.
DOWN DOOR DOWNSPOLIT	PLYWD. PNL.
DISHWASHER DOMESTIC WATER	POS. PR.
DRAWING DRAWINGS	PREFAB. PREFIN.
	Р.S.I. Р.S.F. РТ
E	PVC. PVMT.
EACH	
EXHAUST FAN ELECTRIC, ELECTRICAL	Q
ELEVATION ENERGY MANAGEMENT SYSTEM	-
ETHYLENE PROPYLENE DIENE MONOMER FQUAL	D
EQUIPMENT EACH WAY	К
ELECTRIC WALL HEATER ELECTRIC WATER COOLER	R. R.D.
EXISTING EXPANSION EXTEDIOD	REF. REINF.
LATERION	REQD. R.L. R.O
F	R.T.U. R.V.
FAHRENHEIT FLOOR DRAIN	S
FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	
FINISH FLOOR FEET	SCH. SGL.
C	SH. ROD SHT.
G	SIM. S.O.G.
GAUGE	S.S. STD.
GALVANIZED GROUND FAULT CURRENT	STL. STRUCT.
GLASS, GLAZING GRADE	Т
GYPSUM WALLBOARD	TIC
Н	TECH TEL.
HANDICAPPED	TEMP. T/O
HARDWARE HOLLOW METAL	TR. TSTAT. TYP.
HURIZUN I AL HOUR	IJ
	U
I	U.N.O. UTIL.
INSIDE DIMENSION ICE MAKER	
INCHES INCANDESCENT	V
INSULATION, INSULATING	
1	V.C.T. VEND.
)	VERT. V.T.R.
JUINT	v.vv.C.
К	W
KIP KNOCKOUT	W/
KILOWATT	W.C. WD.
L	WHSE. WP
LEFT	W.R. W.W.F
LINEAR FOOT LIQUID SOAP DISPENSER	

MAXIMUN MECHANICAL MANUFACTUREF MICROWAVE MINIMUM MISCELLANEOUS MILLIMETER MASONRY OPENING MOUNTED METAL NOT APPLICABLE NEGATIVE NON-FREEZE WALL HYDRANT NOT IN CONTRACT NUMBER \mathbf{O} OVERALI ON CENTER OUTSIDE DIMENSION OVERHEAD OPENING OPPOSITE OPPOSITE HAND PUBLIC ADDRESS PARALLEL PERPENDICULAR PI ATF PLASTIC LAMINATE PLYWOOD PANEL POSITIVE PAIR PREFABRICATED PREFINISHED POUNDS PER SQUARE INCH POUNDS PER SQUARE FOO PRESSURE TREATMENT POLYVINYL CHLORIDE PAVEMENT RADIUS RIGHT ROOF DRAIN REFRIGERATOR REINFORCED, REINFORCING REQUIRE RAIN I FADER ROUGH OPENING ROOF TOP UNIT ROOF VENT

Μ

SCHEDULE SINGLE SHOWER ROD SHEET SIMILAR SLAB ON GRADE STAINLESS STEEL STANDARD STEEL STRUCTURE, STRUCTURAL

TOP OF CURE TECHNICAL TELEPHONE TEMPERATURE TOP OF TRANSITION STRIP THERMOSTAT TYPICAL

UNLESS NOTED OTHERWISI UTILITY

VINYL COMPOSITION TILE VENDING MACHINE VERTICAL VENT THROUGH ROOF VINYL WALL COVERING

W

WATER CLOSET, WATER COOLER WATER HEATER WAREHOUSE WEATHERPROOF WATER RESISTANT WELDED WIRE FABRIC

SYMBOLS

L.S.D.

X-XXX



A-000

A-000 /

MARKER

SECTION MARKER

DETAIL CALLOUT

ELEVATION CALLOUT

HEIGHT / ELEVATION



PROJEC



KEY NOTE

WALL TYPE DESIGNATION

EXTERIOR FINISH DESIGNATION

GENERAL NOTES

1. REFER TO THE PROJECT NOTES FOR FURTHER INFORMATION. 2. THE DESIGN OF THIS PROJECT TO THE BEST OF OUR PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF COMPLIES WITH APPLICABLE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), ANSI STANDARD A117.1-1986, AND THE ARKANSAS ACCESSIBILITY CODE REQUIREMENTS AS THEY APPLY TO THIS PROJECT. BECAUSE THE REQUIREMENTS OF THE ADA ARE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS, WE THIS PROJECT 3. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PREVAILING EDITIONS OF ALL APPLICABLE STATE AND LOCAL CODES.

THE ARCHITECT BEFORE THE WORK IS DONE.

OTHERS WITHOUT WRITTEN CONSENT BY THE ARCHITECT OR CONSULTANT.

SHALL HAVE LESS THAN 1:50 (2%) SLOPE.

CONTRACTOR SHALL BEAR ALL EXPENSES OF CORRECTING WORK.

SPECIFICATIONS OF THE SPECIFIED ITEM.

PUBLIC AREAS SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR.

UNLESS OTHERWISE NOTED.

INDICATED.

PER NFPA 101 LIFE SAFETY CODE, 2012 EDITION.

NOSING OR RAMP TO TOP OF HANDRAIL.

BARRIER - PROTECT ALL OPENINGS.'

WRAP PIPES IN TOILET AND BATHROOMS AS REQUIRED BY CODE.

MAINTENANCE OR ABOVE EQUIPMENT IS PROVIDED.

CODE IF NOT SHOWN ON DRAWINGS.

DIFFERENT HEIGHTS, THE DEVICES SHALL BE CENTERED ABOVE EACH OTHER.

NORTH ARROW



Design No. U425 (For Exterior Walls, Ratings Applicable For Exposure To Fire On Interior Face Only, (See Items 4 and 5) Bearing Wall Rating-45 Min, 1, 1-1/2 or 2 HR. (See Items 2 and 4)



HORIZONTAL SECTION





HORIZONTAL SECTION

- Steel Floor and Ceiling Tracks-(Not Shown)-Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.
- Steel Studs—Corrosion-protected steel studs, min 3- 1/2 in. wide, min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, cold-formed, shall be designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhance.
- ing the structural integrity of the well assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC See Item 5c). Studs attached to floor and ceiling tracks with
- 1/2 in, long Type S-12 pan head, self-drilling, self-tapping steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications. 3. Lateral Support Members—(Not shown)—Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the
- design of a particular steel stud wall system. 4. Wallboard, Gypsum*-Gypsum wallboard bearing the ULI Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer con-struction may be applied horizontally. The thickness and number of layers and percent of de-sign load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

Rating

45 min

1-1/2 hr

2 hr





100

100

- 2 layers, 3/4 in. thick See Wallboard Gypsum (CKNX) Category for names of Classified Companies of 1/2 in. or 5/ 8 in. thick wallboard. See below for Classified Company of 3/4 in. thick wallboard. United States Gypsum Co.-Type ULTRACODE or IP-X3.
- 5. Gypsum Sheathing—For exterior walls, 1/2 or 5/8 in, thick exterior regular gypsum sheathing applied vertically and attached to studs and runner tracks with 1 in. long Type S-12 bugle head screws spaced 12 in. O.C. along studs and tracks. One of the following exterior facings are to be applied over the gypsum sheathing. A. Siding, Brick, or Stucco-Aluminum siding, steel siding, brick veneer, or stucco attached
- to study over gypsum sheathing and meeting the requirements of local code agencies. When a min 3-3/4 in, thick brick veneer facing is used, the Exterior Wall Rating is applicable with exposure on either face. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of
- 8. Mineral and Fiber Boards'-Exterior hardboard paneling, chemically treated over gypsum sheathing with primed or finished face, 7/16 in. thick by 48 in. wide. Attached to studs over gypsum sheathing with 1.7/8 in, long buglehead TEK fasteners 16 in. O.C. at the intermediate supports Or, exterior lap siding, chemically treated, 7/16 in. thick by 8 in. or 12 in, wide, Attached to study with 1-7/8 in, long, buglehead Type TEK fasteners at each Ian. Panels lapped minimum 1 in. Masonite Corp.-Type FT.
- C. Cementitious Backer Units*-1/2 in. thick, square edge boards, attached to steel studs over gypsum sheathing with 1-1/4 in. long, Type S-12, corrosion resistant, self-tapping

wafer head steel screws, spaced 8 in. O.C. Studs spaced a max of 16 in. O.C. Joints covered with glass fiber mesh tape United States Gypsum Co.-ECB or ICB. TEC Inc.-Type TEC.

- 6. Fasteners (Not Shown)-Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in, long for 1/2 and 5/8 in, thick wallbeards and 2-1/4 in, long for 3/4 in, thick wall-beard. Third layer Type S-12 by 1-7/8 in, long.
- 7. Batta and Blankets"-Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Mark-
- ing as to Fire Resistance, of a thickness to completely fill stud cavity.
 See Batts and Blankets (BZJZ) Category for names of Classified Companies.
 Joint Tape and Compound—(Not Shown)—Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screwheads of outer layer. Perforated paper tape, 2 in.
- wide, ambedded in first layer of compound over all joints of outer layer. *Bearing the UL Classification Marking

- CANNOT AND DO NOT WARRANT OR GUARANTEE THAT THIS PROJECT WILL COMPLY WITH INTERPRETATIONS OF ADA REQUIREMENTS AS THEY APPLY TO
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE SCOPE OF THE WORK. ANY ERRORS, INCONSISTENCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED PROMPTLY TO
- 4. THE CONTRACTOR SHALL PROVIDE A WARRANTY FOR CORRECTION OF THE WORK OF THIS PROJECT FOR THE PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION OR AS OTHERWISE STIPULATED IN THE CONTRACT DOCUMENTS.
- 5. THE ARCHITECT IS NOT RESPONSIBLE FOR CHANGES MADE OR AUTHORIZED BY THE OWNER, OWNER'S REPRESENTATIVES, TENANTS, CONTRACTOR OR
- 6. THE HANDICAP ACCESSIBLE ROUTE SHALL START AT HANDICAP ACCESSIBLE PARKING AND/OR ACCESSIBLE PUBLIC TRANSPORTATION STOP AND GO INTO THE PRIMARY ENTRANCE OF ALL NEW OR RENOVATED BUILDINGS OR TENANT SPACES. ACCESSIBLE PARKING SPACES AND ADJACENT AISLES
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK WITH THE ARCHITECTURAL DRAWINGS. ALL DISCREPANCIES IN THE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION OF ANY CONFLICTS WITH ANY DESIGN ELEMENTS BEFORE THE WORK IS DONE. OTHERWISE, IF THE CONTRACTOR PROCEEDS WITHOUT NOTIFYING THE ARCHITECT, THE
- 8. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO IMPLEMENTATION. PRIOR TO SUBMISSION FOR REVIEW, THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED SUBSTITUTE MEETS THE PERFORMANCE AND CONSTRUCTION
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAY TO THE MOVE-IN DATE CAUSED BY SCHEDULING WITHIN THE SCOPE OF THE WORK
- 10. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT THE BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT THE DURATION OF THE WORK. BARRIERS TO CONTROL NOISE, DUST, AND SECURITY BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS OR
- 11. THE CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION TOLERANCES AND TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THE WORK OF THIS PROJECT. CONDITIONS ENCOUNTERED AT THE SITE MATERIALLY DIFFERENT FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS. SHALL BE PROMPTLY REPORTED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THE CONDITIONS ARE DISTURBED.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FITTING NECESSARY TO ACHIEVE THE SCOPE OF THE WORK.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION OF MATERIAL WITHOUT PERMANENT DAMAGE OR MARRING. NEW MATERIAL SHALL BE SUBSTITUTED FOR EXISTING MATERIAL THE CONTRACTOR IS UNABLE TO PROTECT FROM PERMANENT DAMAGE OR MARRING.
- 14. EXISTING UTILITIES OR OTHER MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT REQUIRING REMOVAL, CAPPING, TERMINATION, AN/OR RELOCATION SHALL BE INCLUDED IN THE OVERALL SCOPE AND PERFORMANCE OF THE PROJECT BY THE CONTRACTOR.
- 15. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. VERIFY ALL DIMENSIONS IN THE FIELD.
- 16. NEW WORK AT EXISTING CONDITIONS SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED. DIMENSIONS ON THE FLOOR OR PARTITION PLANS ARE FROM FACE OF PARTITION OR MASONRY FINISH TO FACE OF FINISH UNLESS OTHERWISE NOTED.
- 17. CENTERLINE OF PARTITIONS SHALL ALIGN WITH COLUMN, COLUMN LINE, DIMENSION REFERENCE, OR CENTERLINE OF WINDOW MULLIONS AS SHOWN
- 18. "TYPICAL" OR "TYP." SHALL MEAN THAT THE REFERENCED DETAIL OR DIMENSION SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE
- 19. ALL MATERIALS AND DEVICES USED FOR THIS PROJECT ARE TO BE NEW, NEITHER PREVIOUSLY STORED NOR PREVIOUSLY USED IN THIS OR ANOTHER LOCATION.
- 20. THE CONTRACTOR SHALL HAVE CONCRETE TEST REPORTS AVAILABLE ON SITE AT ALL TIMES.
- 21. EXPOSED VAPOR RETARDERS SHALL HAVE A FLAMESPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 450. 22. EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE INSIDE OF THE BUILDING
- 23. THE ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF A DOOR, AND THE THRESHOLD AT THE DOOR, SHALL NOT VARY BY MORE THAN ONE-HALF (1 /2"). THE ELEVATION ON EACH SIDE SHALL BE MAINTAINED FOR A DISTANCE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST LEAF. (SEE NFPA 101 5-2.1.3 FOR DETAIL.) PROVIDE BRACING ABOVE PARTITIONS AS NECESSARY TO SUPPORT ASSEMBLIES ATTACHED OR CONTAINED WITHIN IN COMPLIANCE WITH MINIMUM STANDARDS OF ASTM C645-88. DESIGN INTERIOR PARTITIONS FOR MAXIMUM DEFLECTION OF L/240.
- 24. ALL LANDINGS AND STEPS SHALL BE SOLID WITH NO PERFORATIONS. THERE SHALL BE NO OPEN RISERS ON ANY STEPS REGARDLESS OF SIZE. STAIRS SHALL BE A MINIMUM CLEAR WIDTH OF 44 INCHES (INCLUDING PROJECTIONS NOT MORE THAN 3 1 /2" AT OR BELOW HANDRAIL HEIGHT ON EITHER SIDE). TREADS SHALL BE A MINIMUM OF 11 INCHES DEEP AND RISERS SHALL BE A MAXIMUM OR 7 INCHES IN HEIGHT. UNDERSIDE OF NOSINGS SHALL NOT BE ABRUPT AND NOSING SHALL NOT PROJECT MORE THAN 1 /2 INCH. HANDICAP ACCESSIBLE LANDINGS SHALL BE A MINIMUM OF 60 INCHES BY 60 INCHES. THE OPEN SIDE OF STAIRS THAT ARE 30 INCHES OR MORE ABOVE FLOOR OR GRADE BELOW SHALL HAVE A 42 INCH GUARDRAIL. HANDRAILS SHALL BE ON EACH SIDE OF ALL NEW STAIRS AND AT RAMPS THAT EXCEED A 1:20 SLOPE. HANDRAILS SHALL BE SET AT 34" ABOVE THE FINISH SURFACE OF
- 25. PENETRATIONS INTO OR THROUGH EITHER VERTICAL OR HORIZONTAL FIRE-RATED BARRIERS SHALL BE PROTECTED BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY. PROVIDE A DETAIL AND LISTING NUMBER PER NFPA 101 LIFE SAFETY CODE 2012 EDITION. AT EXISTING PARTITIONS TO REMAIN THAT ARE CHANGED TO BE TENANT DEMISING PARTITIONS, MODIFY THE PARTITION CONSTRUCTION ASSEMBLY AS REQUIRED TO MEET THE REQUIREMENTS FOR THE APPLICABLE FIRE RATING.
- 26. PERMANENTLY IDENTIFY BOTH SIDES OF ALL FIRE RATED AND SMOKE PARTITIONS IN CONCEALED SPACES WITH THE WORDING "FIRE AND SMOKE
- 27. NEW WORK AT EXISTING CONDITIONS SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED. ALL SOUND PARTITIONS SHALL INCLUDE ACOUSTICAL SEALANT AT BASE, HEAD, PERIMETER AND ALL OPENINGS.
- 28. HORIZONTAL ELEMENTS SUCH AS DOOR HEADS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOORS AS REQUIRED USING APPROVED LEVELING COMPOUND UNLESS OTHERWISE DIRECTED IN DRAWINGS.
- 29. PARTITIONS ABUTTING CURTAIN WALL MULLIONS SHALL NOT BE ATTACHED BY SCREWS OR OTHER MECHANICAL FASTENERS. SEE PROJECT SPECIFICATIONS SECTION 09260 GYPSUM BOARD SYSTEMS FOR PARTITION END FINISH.
- 30. PROVIDE BRACING ABOVE PARTITIONS AS NECESSARY TO SUPPORT ASSEMBLIES ATTACHED OR CONTAINED WITHIN IN COMPLIANCE WITH MINIMUM STANDARDS OF ASTM C645-88. DESIGN INTERIOR PARTITIONS FOR MAXIMUM DEFLECTION OF L/240.
- 31. ALL WOOD USED AS STUDS, BLOCKING OR BRACING SHALL BE FIRE TREATED AND PRESSURE TREATED.
- 32. PROVIDE BLOCKING, BRACING, AND NAILERS AS REQUIRED FOR MILLWORK (UPPER AND LOWER CABINETS), EQUIPMENT, SHELVING, FIXTURES, ETC. CONTRACTOR TO COORDINATE REQUIRED HEIGHTS AND TYPES OF BLOCKING FOR LOCATIONS INDICATED AND/OR CODE REQUIREMENTS. WOOD BLOCKING SHALL BE FIRE TREATED. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL NECESSARY REINFORCING TO ACCOMMODATE INTERIOR FINISHES, FIXTURES AND EQUIPMENT AS DESCRIBED IN THE SCOPE OF THE WORK.
- 33. ALL SUBSTRATE SURFACES ARE TO BE PREPARED TO RECEIVE FINISH MATERIALS PER MANUFACTURER'S PRODUCT LITERATURE AND WRITTEN INSTRUCTIONS FOR INSTALLATION OR APPLICATION. FILL VOIDS IN ROUND COLUMNS PRIOR TO APPLYING FINISH MATERIALS. ALL FASTENERS AND ATTACHMENTS SHALL BE CONCEALED FROM VIEW UNLESS OTHERWISE NOTED.
- 34. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE/DATA, ELECTRICAL, LIGHTING AND PLUMBING EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUIT) AND THAT ALL REQUIRED CLEARANCE FOR INSTALLATION OR
- 35. THE CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT AND APPLIANCES SPECIFIED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND/OR COORDINATE INSTALLATION OF TENANT-FURNISHED EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY ALL PLUMBING AND ELECTRICAL REQUIREMENTS RELATED TO EQUIPMENT AND APPLIANCES IN THE SCOPE OF THE WORK. VERIFY LOCATIONS OF ALL FIRE EXTINGUISHERS, SURFACE-MOUNTED OR RECESSED, FOR CODE COMPLIANCE. PROVIDE FIRE EXTINGUISHERS PER
- 36. VERIFY LOCATIONS OF ALL ELECTRICAL DEVICE, LIFE SAFETY DEVICES AND THERMOSTAT LOCATIONS WITH ARCHITECT FOR COORDINATION WITH DESIGN ELEMENTS PRIOR TO INSTALLATION. AT LOCATIONS WHERE ELECTRICAL, MECHANICAL AND/OR OTHER DEVICES OCCUR TOGETHER BUT AT
- 37. SIGNAGE (APPEARANCE, LOCATION, NUMBER AND/OR SIZE) IS NOT INCLUDED UNDER THIS BUILDING PERMIT SET.
- 38. VERIFY STREET NUMBER REQUIREMENTS WITH LOCAL CODES. AT MINIMUM, STREET NUMBERS SHALL BE VISIBLE FROM THE STREET THAT PROVIDES DRIVEWAY ACCESS TO THE PROPERTY AND SHALL BE PLACED ON A CONTRASTING BACKGROUND THAT PROVIDES 24 HOUR VISIBILITY.
- 39. ALL ELEVATION DESIGNATIONS ARE TAKEN FROM FIRST FLOOR FINISH ELEVATION.
- 40. BUILDING IS SHELL ONLY AND BATHROOM FACILITY SHALL COMPLY AT THE TIME OF ALL BUILD-OUTS.
- 41. EGRESS CAPACITY IS TO BE RE-EVALUATED AND CORRECTED AT THE TIME OF EACH BUILD-OUT PERMIT

Design No. U904 Bearing Wall Rating — 3 HR. Nonbearing Wall Rating — 3 HR. 44 7-5/8" MIN. Horizontal Section Concrete Blocks* — Various designs. Classification C-3 (3 hr). See Concrete Blocks category for list of eligible manufacturers. 2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered. 3. Portland Cement Stucco or Gypsum Plaster - Add 1/2 hr to Classification if used. Attached to concrete bolcks (Item 1). 4. Loose Masonry Fill -- If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hr to Classification. 5. Foamed Plastic* -- (Optional-Not Shown) -- 1-1/2 in. thick max, 4 ft wide architects sheathing attached to concrete blocks (Item 1). **CELOTEX CORP**—Type Thermax *Bearing the UL Classification Marking Design No. U490 Bearing Wall Rating - 3 or 4 HR. (See Items 1, 2, 3, 3A and 4) Nonbearing Wall Rating - 4 HR. (See Items 1, 2, 3 and 4) AN MARCH 13, 2018 HORIZONTAL SECTION Roswell Mill 1. Floor and Ceiling Runner - (Not Shown) - Channel shaped, 85-A Mill Street Suite 200 attached to floor and ceiling with steel fasteners spaced max 24 in. OC. For nonbearing walls, fabricated from min No. 25 MSG galv steel, Koswell, Georgia 30075 1-1/2 in. deep and min 2-1/2 in. wide. For bearing walls, fabricated from min 0.0329 in. thick (20 MSG) galv steel, 1-1/4 in. deep and 3-1/2 t 770.650.7558 f 770.650.7559 in. wide. e-mail architects@randallpaulson.com 2. Steel Studs - Channel shaped, spaced a max 24 in. OC. For nonbearing walls, fabricated from min 25 MSG galv steel, min 2-1/2 in. wide by 1-1/4 in. deep with 1/4 in. folded back return flange legs. Studs to be cut 3/4 in. less the assembly height. Steel studs friction-fitted into floor and ceiling runners (Item 1). For bearing walls, min 0.0329 in. | architecture/interiors thick (20 MSG) galv steel studs, min 3-1/2 in. wide by 1-5/8 in. deep with 1/2 in. folded back return flange legs, cold formed, designed in accordance with the current edition of the Specification for the Design These plans and specifications are the property of Randall-Paulson Architects of Cold-Formed Steel Structural Members by the American Iron and Incorporated. These documents may not be copied, reproduced, used or Steel Institute (AISI). All design details enhancing the structural integimplemented in any way, in part or in whole, without the written consent of rity of the wall assembly, including the axial design load of the studs, Randall-Paulson Architects, Incorporated. All common law rights of copyright are shall be as specified by the steel stud designer and/or producer, and hereby specifically reserved. shall meet the requirements of all applicable local code agencies. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 panhead, self-drilling, self-tapping steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications. Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system. 3. Batts and blankets* — Nom 2 in. thick (Nonbearing Wall) or nom 3 in. thick (3 Hr. Bearing Wall) mineral wool batts, friction fit between the studs and floor and ceiling runners. For 4 Hr. bearing wall rating see Item 3 A. THERMAFIBER L L C — Type SAFB. 3A. Batts and Blankets - For use when Bearing Wall Rating is 4 Hr. -Mineral wool batts nom 3 in. thick, min 4 pcf, friction fit between the studs and floor and ceilir 4. Gypsum Board* — 3/4 in. thick, 4 ft wide. For nonbearing walls, two layers of wallboard applied to each side of the steel studs. Inner layer applied vertically with joints centered over studs and staggered on A DEVELOPMENT BY: opposite sides of studs. Outer layer applied horizontally with vertical butt joints staggered from inner layer joints or vertically with joints centered over studs and staggered on opposite side of studs. Inner **Hall** Equities Group layer secured with 1-1/4 in. long Type S steel screws spaced 24 in. OC along the perimeter and in the field. Outer layer, when applied hori-Real Estate Investment · Development · Manage zontally, secured with 2-1/4 in. long Type S steel screws spaced 12 in. OC along the perimeter and in the field. Along the horizontal joints of the outer layer, 1-1/2 in. long Type G steel screws to be applied midway between the studs (24 in. OC) and 1 in. from the longitudinal joint. Outer layer, when applied vertically, joints staggered, secured with 2-1/4 in. long Type S steel screws spaced 12 in. OC along the perimeter and in the field. For bearing walls, the wallboard is secured in the same manner except 7401 ALCOA RD Type S-12 steel screws are used instead of Type S. CANADIAN GYPSUM COMPANY -Type IP-X3, ULTRACODE, BRYANT, AR 72022 ULTRACODE SHC or ULTRACODE WRC. UNITED STATES GYPSUM CO - Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC. USG MEXICO S A DE C V — Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC. 5. Joint Tape and Compound — (Not Shown) — Outer layer joints covered with joint compound and paper or mesh tape. Screw heads covered with joint compound. Print Record

*Bearing the UL Classification Mark

13 MARCH 2018

Revisions Project No. Date 13 MARCH 2018 2017259.00 Sheet Title GENERAL NOTES, SYMBOLS, & ABBREVIATIONS Sheet No.

Released for Construction

Not Released for Construction

PERMIT SET





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	FIVE BELOW
	A DEVELOPMENT BY:
	Hall Equities Group [™] Real Estate Investment • Development • Management
	7401 ALCOA RD BRYANT, AR 72022
EXTINGUISHER TO COMPLY WITH 0 AND APPLICABLE CODES, IGUISHERS: CARBON STEEL TANK, DEEP DRAWN	Print Record 13 MARCH 2018 PERMIT SET
NGUISHER CABINET AND DDUCT REQUIREMENTS OF NFPA 10 R IS MORE STRINGENT. IGUISHERS: CARBON STEEL TANK, DEEP DRAWN	Revisions
SHER CABINET AND EXTINGUISHER TO NTS OF NFPA 10 AND APPLICABLE SENT. IGUISHERS: CARBON STEEL TANK,	
DEEP DRAWN TO BE APPROVED BY FIRE MARSHAL	Date Project No. 13 MARCH 2018 2017259.00
PAINTED YELLOW ON FLOOR	Sheet Title LIFE SAFETY PLAN
E IS 300' - 0" WITH SPRINKLER PER IBC 1016.1 &	A-090 Released for Construction

LIFE	SAFETY LEGEND:
	 DENOTES SURFACE MOUNTED FIRE EXTINGUISHER TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT. DRY CHEMICAL TYPE FIRE EXTINGUISHERS: CARBON STEEL TANK, WITH PRESSURE GAGE. STORED PRESSURE OPERATED: DEEP DRAWN CLASS: 4A - 60B:C SIZE: 10 POUND SIZE: 10 POUND
F.E.C.	 DENOTES SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT. DRY CHEMICAL TYPE FIRE EXTINGUISHERS: CARBON STEEL TANK, WITH PRESSURE GAGE. STORED PRESSURE OPERATED: DEEP DRAWN CLASS: 4A - 60B:C SIZE: 10 POUND
F.E.C.	 DENOTES RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT. DRY CHEMICAL TYPE FIRE EXTINGUISHERS: CARBON STEEL TANK, WITH PRESSURE GAGE. STORED PRESSURE OPERATED: DEEP DRAWN CLASS: 4A - 60B:C SIZE: 10 POUND ALL FIRE EXTINGUISHER LOCATIONS TO BE APPROVED BY FIRE MARSHAL AND/OR AHJ
	DELINEATED PATH OF EGRESS TO BE PAINTED YELLOW ON FLOOR

GENERAL NOTE:

1. BUSINESS EGRESS TRAVEL DISTANCE IS 300' - 0" WITH SPRINKLER PER IBC 1016.1 & LSC 39.2.6, EXCEPTION 1.



	•
MARK	DESC
1	REMOVE EXISTING O
2	REMOVE EXISTING O
3	EXISTING ELECTRICA
4	REMOVE ALL EXISTIN
5	REMOVE EXISTING RI
6	REMOVE EXISTING S
7	REMOVE EXISTING VE
8	REMOVE EXISTING LI
9	REMOVE ALL EXISTIN
10	REMOVE ALL EXISTIN NEW FINISH
11	PATCH AND REPAIR (
12	REMOVE ALL PLUMBI
13	RTU UNIT LOCATIONS
14	SAW CUT AREAS TO I UNDER SLAB CONDIT
15	SAW CUT AREAS TO I
DEM	IOLITION PLAN G
1.	THE CONTRACTOR SHALL OF THE WORK.

3.	DEMOLITION PLANS SHOW APPROXIMATE LAYOUT OF THE EXISTING BUILDING AND ARE NOT INTENDED THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAF MECHANICAL, PLUMBING, AND ELECTRICAL WORK.
4.	VISITS TO THE SITE DURING THE BID PHASE SHALL BE COORDINATED WITH THE OWNER'S REPRESENTA OF ALL EXISTING CONSTRUCTION AND SHALL VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS OR WALLS IS COMMENCED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AT ONCE.
5.	SHOULD THE CONTRACTOR ENCOUNTER CONDITIONS AT THE SITE MATERIALLY DIFFERING FROM THOS CONTRACTOR SHALL IMMEDIATELY GIVE NOTICE TO THE OWNER'S REPRESENTATIVE OF SAID CONDITION
6.	THE CONTRACTOR SHALL CEASE OPERATIONS IMMEDIATELY IF HAZARDOUS OR CONTAMINATED MATER BIPHENYL (PCB), NOT PREVIOUSLY RENDERED HARMLESS, ARE ENCOUNTERED. CONTACT ARCHITECT OPERATIONS UNTIL DIRECTED, HAZARDOUS OR CONTAMINATED MATERIALS HAVE BEEN RENDERED HA OWNER AND CONTRACTOR IN WRITING.
7.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES. THIS INCLUDES SCHE COORDINATION OF ALL CUTTING, FITTING, PATCHING AND REPAIRING AS REQUIRED, ETC.
8.	THE OWNER AND AFFECTED TENANT SHALL BE NOTIFIED PRIOR TO SHUTDOWN OF ANY SHARED MECH
9.	THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT THE BUILDING OCCUPANTS, MA DURATION OF THE WORK, INSIDE AND OUTSIDE THE SCOPED AREA. BARRIERS TO CONTROL NOISE, DU AND OCCUPIED AREAS OR PUBLIC AREAS SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR.
10.	THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED FOR TEMPORARY SHORING AND BRACING SHALL PREVENT MOVEMENT, SETTLEMENT, AND/OR COLLAPSE OF STRUCTURE SHORING AND BRACING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE LOCAL
11.	EXISTING CONSTRUCTION SHOWN TO REMAIN INCLUDING BUT NOT LIMITED TO WALLS, PARTITIONS, DO BEYOND THE SCOPED AREA ETC. SHALL BE PROTECTED FROM WEATHER AND OTHER DAMAGE DURING CONSTRUCTION SHOWN TO REMAIN SHALL BE RESTORED TO MATCH PRE-DAMAGED ADJACENT CONDI
12.	EXISTING ITEMS OR MATERIAL TO BE SALVAGED SHALL EITHER BE CAREFULLY REMOVED, CLEANED AN OWNER OR SHALL BE CAREFULLY REMOVED, CLEANED, TEMPORARILY STORED AND RE-USED AS SHOW AND PROVIDE TO OWNER A LIST OF ALL REMOVED AND SALVAGED ITEMS AT THE COMPLETION OF DEM WINDOWS AND FRAMES TO MAINTAIN RATINGS FOR RE-USE.
	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION OF MATERIAL WITHOUT PERMANENT SUBSTITUTED FOR EXISTING MATERIAL THE CONTRACTOR IS UNABLE TO PROTECT FROM PERMANENT
13.	EXISTING UTILITIES OR OTHER MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT REQUIRING REMO SHALL BE INCLUDED IN THE OVERALL SCOPE AND PERFORMANCE OF THE PROJECT BY THE CONTRACT
14.	THE CONTRACTOR SHALL PROTECT AND SHALL NOT DISCONNECT ALL EXISTING FIRE ALARM DEVICES, ASSOCIATED WIRING, AND OTHER LIFE SAFETY DEVICES IN OPERATION. RELOCATE AS REQUIRED IN N
15. 16.	EXISTING CONCRETE FLOOR SLABS, MASONRY WALLS AND EXISTING STRUCTURAL FRAMING SYSTEMS SAWCUT FROM EXISTING CONSTRUCTION. COMPLETELY REMOVE FOOTINGS, FOUNDATIONS AND ABOV AND INDICATED ON DRAWINGS.
	EXISTING EXTERIOR WALL INSULATION SHALL BE LEFT IN PLACE OR SHALL BE REPLACED WITH NEW MA
17.	WHERE FINISHES ARE SHOWN TO BE REMOVED FROM EXISTING CONSTRUCTION, REPAIR AND PATCH R FINISH. CAREFULLY REPAIR AND PATCH ALL REMAINING SUBSTRATES THAT WERE ORIGINALLY CONCE.
10.	ALL INFILL OR REPLACEMENT WORK IS TO MATCH EXISTING CONDITIONS IN MATERIALS. CONSTRUCTION
19.	ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
	EXISTING CONDITIONS DISTURBED BY NEW WORK MUST BE RESTORED WITH SIMILAR NEW MATERIAL TO SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
20.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEBRIS REMOVAL. DO NOT ALLOW DEBRIS TO ACCUM AND CLEAN ALL WORK AFFECTED BY CONSTRUCTION AT COMPLETION OF PROJECT. THE CONTRACTOR SHALL VERIFY ALL TENANT REQUESTS WITH OWNERS REPRESENTATIVE PRIOR TO PERFORMING SUCH
22	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF IRREGULARITIES IN FLOOR FINIS TO DEMOLITION.
<i>LL</i> .	
24.	REIVIOVE ALL OBSOLETE PLOIVIBING, MECHANICAL, AND ELECTRICAL EQUIPMENT IN THEIR ENTIRETY TH PARTICULARLY WHERE EXISTING ITEMS WILL INTERFERE WITH THE INSTALLATION OF NEW CONSTRUCT IN THE NEW CONSTRUCTION, UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE CONTRACT DOCUMENT REMAIN WITH MATCHING EXISTING CONSTRUCTION AND AS INDICATED IN CONTRACT DOCUMENTS. CO
25.	REMOVE NON-LOAD BEARING WALLS (CMU & GYP BOARD), DOORS AND FRAMES, ENCLOSURES AND ALL

- PLAN. FINISHES. 29. PLUMBING, AND FIRE PROTECTION.
- 31.
 - MODIFICATIONS, AND PHASING.

PARTITION LEGEND EXISTING TO REMAIN E = = = EXISTING TO BE DEMOLISHED

NEW PARTITIONS

-KEYNOTE LEGEND-

CRIPTION

LD NAVY PONY WALLS

LD NAVY DRESSING ROOMS AL PANELS TO REMAIN

NG WALLS

RESTROOMS

TOREFRONT

ESTIBULE

IGHTING AND ELECTRICAL EQUIPMENT

NG DUCT THROUGHOUT

NG FLOOR FINISHES AND CLEAN EXISTING CONCRETE SLAB TO "LIKE" NEW CONDITION AND PREPARE SLAB FOR

GYP. AS REQUIRED, MATCH EXISTING

ING / COMPONENTS, CAP AT SLAB

S TO REMAIN, REPLACE EXISTING RTUS WITH LARGER UNITS, SEE MECHANICAL DRAWINGS

RECEIVE NEW PLUMBING TRENCHES. BACKFILL WITH CLEAN GRAVEL AND VAPOR BARRIER TO MATCH EXISTING TIONS. FINISH CONCRETE TO LIKE CONDITION OF SURROUNDING ADJACENT SURFACES.

RECEIVE NEW PILASTER FOOTING. ALIGN SAW CUTS WITH EXISTING EXPANSION JOINTS

ENERAL NOTES:

L BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS, INSPECTION CERTIFICATES, ETC. FOR THE SCOPE

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PREVAILING EDITIONS OF ALL APPLICABLE STATE AND LOCAL CODES.

W APPROXIMATE LAYOUT OF THE EXISTING BUILDING AND ARE NOT INTENDED TO REPRESENT PRECISE "AS-BUILT" CONDITIONS. ALL SUBCONTRACTORS SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS, INCLUDING EXISTING , AND ELECTRICAL WORK.

NG THE BID PHASE SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY LOCATIONS RUCTION AND SHALL VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS BEFORE ANY NEW CONSTRUCTION OF PARTITIONS ED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AT ONCE.

OR ENCOUNTER CONDITIONS AT THE SITE MATERIALLY DIFFERING FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS, THE AEDIATELY GIVE NOTICE TO THE OWNER'S REPRESENTATIVE OF SAID CONDITIONS BEFORE THEY ARE DISTURBED.

L CEASE OPERATIONS IMMEDIATELY IF HAZARDOUS OR CONTAMINATED MATERIALS SUCH AS ASBESTOS OR POLYCHLORINATED EVIOUSLY RENDERED HARMLESS, ARE ENCOUNTERED. CONTACT ARCHITECT AND OWNER IN WRITING. DO NOT RESUME CTED, HAZARDOUS OR CONTAMINATED MATERIALS HAVE BEEN RENDERED HARMLESS, AND CONDITIONS ARE AGREED TO BY OR IN WRITING

L BE RESPONSIBLE FOR COORDINATION OF ALL TRADES. THIS INCLUDES SCHEDULING OF ALL WORK TO BE PERFORMED, CUTTING, FITTING, PATCHING AND REPAIRING AS REQUIRED, ETC.

TED TENANT SHALL BE NOTIFIED PRIOR TO SHUTDOWN OF ANY SHARED MECHANICAL, PLUMBING AND/OR ELECTRICAL SYSTEMS. TAKE ADEQUATE PRECAUTIONS TO PROTECT THE BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT THE K, INSIDE AND OUTSIDE THE SCOPED AREA. BARRIERS TO CONTROL NOISE, DUST, AND SECURITY BETWEEN CONSTRUCTION AREAS

L PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED FOR TEMPORARY SUPPORT OF ALL WORK TO BE PERFORMED. THE SHALL PREVENT MOVEMENT, SETTLEMENT, AND/OR COLLAPSE OF STRUCTURE OR ELEMENT SHOWN TO REMAIN. IF REQUIRED SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

N SHOWN TO REMAIN INCLUDING BUT NOT LIMITED TO WALLS, PARTITIONS, DOORS, FRAMES, CONSTRUCTION AND MATERIALS REA ETC. SHALL BE PROTECTED FROM WEATHER AND OTHER DAMAGE DURING CONSTRUCTION ACTIVITIES. DAMAGE TO EXISTING TO REMAIN SHALL BE RESTORED TO MATCH PRE-DAMAGED ADJACENT CONDITION AT NO ADDITIONAL COST TO OWNER.

ERIAL TO BE SALVAGED SHALL EITHER BE CAREFULLY REMOVED, CLEANED AND STORED AT A LOCATION PROVIDED BY THE REFULLY REMOVED. CLEANED. TEMPORARILY STORED AND RE-USED AS SHOWN ON DRAWINGS. CONTRACTOR SHALL MAINTAIN R A LIST OF ALL REMOVED AND SALVAGED ITEMS AT THE COMPLETION OF DEMOLITION WORK. SALVAGE EXISTING RATED DOORS, TO MAINTAIN RATINGS FOR RE-USE.

L BE RESPONSIBLE FOR ALL RELOCATION OF MATERIAL WITHOUT PERMANENT DAMAGE OR MARRING. NEW MATERIAL SHALL BE ING MATERIAL THE CONTRACTOR IS UNABLE TO PROTECT FROM PERMANENT DAMAGE OR MARRING.

THER MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT REQUIRING REMOVAL, CAPPING, TERMINATION, AND/ OR RELOCATION HE OVERALL SCOPE AND PERFORMANCE OF THE PROJECT BY THE CONTRACTOR.

L PROTECT AND SHALL NOT DISCONNECT ALL EXISTING FIRE ALARM DEVICES, SMOKE ALARMS, SPRINKLER HEADS, EXIT SIGNS, D OTHER LIFE SAFETY DEVICES IN OPERATION. RELOCATE AS REQUIRED IN NEW PLAN.

DOR SLABS, MASONRY WALLS AND EXISTING STRUCTURAL FRAMING SYSTEMS SHOWN TO BE REMOVED SHALL BE CLEANLY CONSTRUCTION. COMPLETELY REMOVE FOOTINGS, FOUNDATIONS AND ABOVEGROUND AND UNDERGROUND CONSTRUCTION VINGS.

L INSULATION SHALL BE LEFT IN PLACE OR SHALL BE REPLACED WITH NEW MATERIAL OF EQUAL INSULATING VALUE. IOWN TO BE REMOVED FROM EXISTING CONSTRUCTION, REPAIR AND PATCH REMAINING SUBSTRATES AND PREPARE FOR NEW AIR AND PATCH ALL REMAINING SUBSTRATES THAT WERE ORIGINALLY CONCEALED BY EXISTING FINISHES, BUT WILL NOW BE

IENT WORK IS TO MATCH EXISTING CONDITIONS IN MATERIALS, CONSTRUCTION, RATING AND FINISH, UNLESS SPECIFICALLY NOTED STRUCTION DOCUMENTS.

ISTURBED BY NEW WORK MUST BE RESTORED WITH SIMILAR NEW MATERIAL TO A CLEAN NEW CONDITION. ALL NEW MATERIALS UNLESS OTHERWISE NOTED.

L BE RESPONSIBLE FOR DEBRIS REMOVAL. DO NOT ALLOW DEBRIS TO ACCUMULATE. ALL AREAS TO BE LEFT CLEAN DAILY. WASH FFECTED BY CONSTRUCTION AT COMPLETION OF PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH TENANT AND NT REQUESTS WITH OWNERS REPRESENTATIVE PRIOR TO PERFORMING SUCH REQUESTS.

L BE RESPONSIBLE FOR THE CORRECTION OF IRREGULARITIES IN FLOOR FINISH AND/OR ELEVATION THAT BECOME APPARENT DUE

PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT IN THEIR ENTIRETY THROUGHOUT TENANT SPACE AND ON THE ROOF, EXISTING ITEMS WILL INTERFERE WITH THE INSTALLATION OF NEW CONSTRUCTION, OR WHERE EXISTING ITEMS WILL BE EXPOSED ION, UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS TO REMAIN. REPAIR AND PATCH SYSTEMS TO EXISTING CONSTRUCTION AND AS INDICATED IN CONTRACT DOCUMENTS. COORDINATE WITH NEW CONSTRUCTION.

RING WALLS (CMU & GYP BOARD), DOORS AND FRAMES, ENCLOSURES AND ALL OTHER ITEMS INDICATED TO BE REMOVED ON THIS

26. REMOVE ALL SHELVING AND STORE FIXTURES LEFT FROM PREVIOUS TENANT.

27. REMOVE ALL EXISTING FINISHES, CHAIR RAILS, GRAPHICS, ETC. AND PREP FOR NEW FINISHES.

28. PATCH AND/OR REPAIR FLOOR, CEILING AND/OR WALL SURFACES WHERE EXISTING TO REMAIN, REMOVALS ARE MADE AND PREPARE TO RECEIVE NEW

CONTRACTOR MUST PLAN, SCHEDULE, AND COORDINATE ALL REMOVALS (AND NEW WORK) TO AVOID INTERRUPTION OF SERVICES, ELEC., HVAC,

30. INSTALL TEMPORARY STOREFRONT BARRICADE IF REQUIRED. PATCH AND REPAIR FASCIA AS REQUIRED TO MATCH ADJACENT FINISHES.

REFER TO ELECTRICAL, MECHANICAL, AND PLUMBING DRAWIGS FOR ADDITIONAL NOTES ON ELECTRICAL, MECHANICAL, AND PLUMBING REMOVALS,





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| architecture/interiors

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FIVE	BELOW

A DEVELOPMENT BY:

Hall Equities Group Real Estate Investment · Development · Managen

> 7401 ALCOA RD BRYANT, AR 72022

> > PERMIT SET

Print Record 13 MARCH 2018

	Revisions	
_		
	Date	Project No.
	13 MARCH 2018	2017259.00

Sheet Title **DEMOLITION FLOOR PLAN**

Sheet No. A-09 Released for Construction 🗌 Not Released for Construction





² DETAIL @ ENTRY CANOPY EXISTING

A-092 SCALE: 1" = 1'-0"









Released for Construction

🔲 Not Released for Construction

3 INTERIOR WALL PARTITIONS LEGEND A-101 SCALE: 1 1/2" = 1'-0"



MATERIAL LEGEND							
MARK	CATEGORY	CATEGORY MANUFACTURER DESCRIPTION		INSTALLATION / FINISH			
C-2	METAL CANOPY	PREFABRICATED	ALUMINUM	EXISTING CANOPY			
CMU-1	CMU BLOCK	VERIFY	ROCK FACE	MATCH EXISTING COLOR			
CMU-2	CMU BLOCK	VERIFY	SMOOTH	MATCH EXISTING COLOR			
EIFS-1	EIFS	DRYVIT OR EQUAL	S.W.#7690	DIRT PICK-UP RESISTANT; FINISH: FINE TEXTURE; COLOR TO MATCH: S.W. #7690 "TOWNHALL TAN"			
EPS-1	EXPANDED POLYSTYRENE SHAPE	SIERRA STONE	EPS	COLOR TO MATCH EXISTING			
M-1	METAL COPING	PAC CLAD	MEDIUM BRONZE	PREFINISHED			
SF1	STOREFRONT FINISH	DRYVIT OUTSULATION PLUS MD	STOREFRONT EIFS SYSTEM 1" MIN DEPTH, FIBE-0110215	'FIVE BELOW' BLUE SIGNANGE EIFS			
SF3	STOREFRONT FINISH	DRYVIT OUTSULATION PLUS MD	STOREFRONT EIFS 2"X4" FRAME. 1" MIN EIFS CORNICE.	'CHINA WHITE' FRAME AROUND			



Released for Construction
Not Released for Construction



REFLEC SYMBO TYPE _____ Α . A1 . A1.1 A2 2 LB __Δ___ LT-4 ΔΔ LT-8 FL $(\mathbf{0})$ В (SP) Е F ρ_____ G C Ν J

TED CE	ILING PLAN - LEGEND		
OL	MANUFACT./CAT. #	DESCRIPTION	MOUNTING TYPE
	DAY-BRITE LIGHTING T-2-32 UNV	4' 2 LAMP STRIP SINGLE END WIRED, SEE ELECTRICAL DRAWINGS	CEILING MOUNTED
	DAY-BRITE LIGHTING TIK-S-3-32-UNV/(2) IK-BF	8' INDUSTRIAL WITH CROSS BAFFLE, SEE ELECTRICAL DRAWINGS	CABLE MOUNTED
	DAY-BRITE LIGHTING TIK-S-3-32-UNV/(1) IK-BF	4' INDUSTRIAL WITH CROSS BAFFLE, SEE ELECTRICAL	CABLE MOUNTED
	DAY-BRITE LIGHTING TT-2C -32 UNV	8' 2 LAMP STRIP SINGEL END WIRED, SEE ELECTRICAL DRAWINGS	CABLE MOUNTED
	MDI WORLDWIDE X-61964BRK-SLM70	4' FIXTURE LIGHTING IN STYLE SECTION	CLIP MOUNTED
Δ	HOUSING: JUNO T4WH LAMP: PHILLIPS 17PAR38XS40940/R534WH	4' TRACK, SEE ELECTRICAL DRAWINGS	THREATED ROD, PAINTED P-1
Δ-	HOUSING: JUNO T8WH LAMP: PHILLIPS 17PAR38XS40940/R534WH	8' TRACK, SEE ELECTRICAL DRAWINGS	THREATED ROD, PAINTED P-1
	LOZIER QUICK CONNECT LIGHTS LKQC-3-LED4000	3' OR 4' UNDER SHELF LIGHTING	MAGNENT MOUNTED
)	SENNCO SOLUTION 9-0650-1000-02-00	DUMMY DOME DROP CAMERA, INSTALLED BY T.G.C.	PENDANT MOUNTED
)		SPEAKER, INSTALLED BY F.B.	
)	EXITRONIX APX7R	UNIVERSAL EXIT LED RED, SEE ELECTRICAL DRAWINGS	SURFACE MOUNTED
9	SURE-LITE APEL	DUAL HEAD EMERGENCY WITH BATTERY PACK, SEE ELECTRICAL DRAWINGS	CEILING MOUNTED (HUNG
	CON-TECH LIGHTING RL38 - CTR3802-CLR	UNDER CANOPY LIGHT	SURFACE MOUNTED
	EXITRONX LL12-54-0-W/ T1212W	DUAL HEAD REMOTE WITH BATTERY	SURFACE MOUNTED
		DOOR CHIME PROVIDED BY F.B. INSTALLED BY T.G.C, RECEIVER TO BE INSTALLED AT CASHWRAP	SURFACE MOUNTED
		DOOR CHIME PROVIDED BY F.B. INSTALLED BY T.G.C, RECEIVER TO BE INSTALLED AT CASHWRAP	SURFACE MOUNTED





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=	FIVE BELOW
	A DEVELOPMENT BY: Hall Equities Group [™] eal Estate Investment • Development • Management
	7401 ALCOA RD BRYANT, AR 72022
<i>Print Record</i> ARCH 2018	PERMIT SET

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Date	Project No.
13 MARCH 2018	2017259.00
Sheet Title PROPOSED REFLE PLAN	CTED CEILING
Sheet No.	

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REFLECTED CEILING PLAN NOTES:

- 1. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION
- 2. G.C. TO COORDINATE W/ MECHANICAL AND STRUCTURAL DRAWINGS FOR RTU LOCATIONS.
- 3. REFER TO MECHANICAL DRAWINGS FOR DUCT WORK, DIFFUSERS, SUPPLY LOCATIONS. G.C. TO COORDINATE AND FIELD VERIFY DUCT WORK AND LIGHT FIXTURES AND NOTIFY ARCHITECTS IFANY CONFLICTS & DISCREPANCY.
- 4. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
- 5. REFER TO ENGINEERING DRAWINGS FOR HVAC AND ELECTRICAL FIXTURES, SPECIFICATIONS AND DETAILS.
- 6. LIGHT FIXTURES SHOWN ON REFLECTED CEILING PLAN FOR LOCATION ONLY.
- 7. DIMENSIONS INDICTATE STARTING POINT OF GRID. IF NOT DIMENSIONED, CENTER GRID ON SPACE SIDE AS SHOWN, STARTING WITH A FILL TILE AT THE FRONT.
- 8. COORDINATE ALL NEW ABOVE CEILING INSTALLATIONS TO PROVIDE DESIGN ELEMENTS AND FIXTURES AS SHOWN ON REFLECTED CEILING PLAN. CONFLICTS MAY REQUIRE INSTALLATION OF MECHANICAL, ELECTRICAL, OR PLUMBING ELEMENTS ABOVE TYPICAL MOUNTING HEIGHTS.
- 9. IF ACCESS DOORS ARE REQUIRED, SUBMIT PROPOSED TYPE, SIZE AND LOCATION TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
- 10. LOCATE ELECTRICAL DEVICES, LIFE SAFETY DEVICES, AND SPRINKLER HEADS IN BETWEEN LIGHT FIXTURE AND/OR CENTER OF ACCOUSTICAL CEILING TILE, UNLESS NOTED OTHERWISE.
- 11. CONCEAL FASTENERS. NO POP RIVETS.



-KEYNOTE LEGEND-

MARK	DESCRIPTION
1	EXISTING DOWNSPOUTS AND GUTTERS TO REMAIN
2	TENANT DEMISING WALL LOCATION
3	NEW RTU UNIT AND CURB
4	G.C. TO PROVIDE NEW RTU AND MODIFY OR REPLACE EXISTING CURB
5	REPAIR AND REPLACE ANY AND ALL TPO DAMAGED OR REMOVED AS PART OF CONSTRUCTION
6	LOCATION OF EXISTING RTU CURB TO BE MODIFIED FOR NEW RTU. ADD REQUIRED RIGID INSULATION TO MEET EXISTING ROOF R-VALUE.

ROOF PLAN NOTES:

1. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR MORE INFORMATION ON EQUIPMENT.

	TOILET ACCESSORIES SCHEDULE								
NUMBER	NUMBER DESCRIPTION CATAGORY # REMARKS								
1b	TOILET TISSUE DISPENSER - RECESSED MULTI-ROLL	BOBRICK B-4388	ROUGH OPENING (6-1/4" w x 11-1/4" h x 3-1/4" MIN. RECESS)						
2a	GRAB BARS - 36" HORIZONTAL	BOBRICK B-6806X36	1 - 1/2' DIA. 36" LONG						
2b	GRAB BARS - 42" HORIZONTAL	BOBRICK B-6806X42	1 - 1/2' DIA. 42" LONG						
2c	GRAB BARS - 18" VERTICAL	BOBRICK B-6806X18	1 - 1/2' DIA. 18" TALL						
3а	MIRROR - WELDED FRAME	BOBRICK B-290	AVAILABLE SIZES: 18x30, 18x36, 24x30, 24x36, 24x48, 24x60, and 24x72						
5a	SOAP DISPENSER - SURFACE MOUNTED	OWNER STANDARDS							

ADA DIAGRAM - GENERAL 3/8" = 1'-0"

RESTROOM AND BREAKROOM NOTES

1. WRAP AND INSULATE ALL EXPOSED PIPES TO MEET CODE.

2. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

3. ALL ACCESSORIES, UNLESS OTHERWISE INDICATED, SHALL BE STAINLESS STEEL BY BRADLEY, BOBRICK OR APPROVED EQUAL.

4. PROVIDE MANUALLY OPERATED FLUSH VALVES TO ALL TOILETS IN THE RESTROOMS; SLOAN OR APPROVED EQUAL.

5. ALL TOILETS AND SINKS SHALL BE FLOOR MOUNTED.

6. PROVIDE EXHAUST FANS DUCTED TO OUTSIDE AT ALL TOILET ROOMS.

<u>NOTE:</u>

TOILET OPERATOR MECHANISM SHALL BE ON THE MOST 1.

ACCESSIBLE SIDE (TYPICAL). 2. NOT ALL TOILET ACCESSORIES SHOWN ABOVE ARE USED, SEE PLANS.

7401 ALCOA RD BRYANT, AR 72022 Print Record 13 MARCH 2018 PERMIT SET Revisions

5/8" GWB EXTENDED TO 6" ABOVE CEILING

NEW CANOPY TIE BACK RODS 6 A-401

REPURPOSED OLD NAVY CANOPY

EXISTING PILASTER BEYOND

ALUMINUM STOREFRONT WITH

1" INS. GLAZING

NEW DEMISING WALL -

² SECTION @ PILASTER A-301 SCALE: 1/2" = 1'-0"

(C1)

_2 \Sim

A-401

SLOPE

 PREFINISHED METAL COPING W/ CONT. CLEAT OVER EXT. GRADE
 PLYWOOD SHEATHING AND
 SLOPED BLOCKING. COLOR TO MATCH ADJACENT TENANTS AND EXISTING COPING.

EIFS CORNICE OVER EXT.GRADE SHEATHING AND MTL STUD

EIFS FINISH ON 5/8" EXTERIOR GRADE G.W.B SHEATHING

NEW PILASTER TO MATCH EXISTING

WALL SCONCE

WEATHER MEMBRANE ON 5/8" EXTERIOR GRADE G.W.B SHEATHING

CMU VENEER OVER SHEATHING MEMBRANE, EXT. GRADE SHEATHINGAND MTL STUD

- MORTAR NET

CONT. METAL FLASHING W/ WEEP VENTS

GROUT SOLID FILL

CONCRETE SLAB, SEE STRUCTURAL DRAWINGS

4

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Project No.

2017259.00

SON

	DOOR SCHEDULE											
				DOOR				FRAME				
MARK	DESCRIPTION	TYPE	MATL.	FINISH	WIDT H	HEIG HT	THIC K.	TYPE	MATL.	HEAD	JAMB	THRESH
100A	ENTRY	А	ALUMINUM	CLEAR ANODIZED	6' - 0"	6' - 10"	N/A	MANUF.	ALUMINUM	-	-	5/A-601
100B	VESTIBULE	А	ALUMINUM	CLEAR ANODIZED	6' - 0"	7' - 0"	N/A	MANUF.	ALUMINUM	-	-	5/A-601
102A	CORRIDOR	90	-	P-2	4' - 6"	7' - 0"	N/A	Α	-	-	-	-
103A	RESTROOM	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	Α	H.M.	6/A-601	7/A-601	8/A-601
104A	RESTROOM	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	Α	H.M.	6/A-601	7/A-601	8/A-601
105A	BREAK ROOM	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	Α	H.M.	6/A-601	7/A-601	8/A-601
106A	STORAGE ROOM	41	H.M	P-2	3' - 0"	7' - 0"	1 3/4"	Α	H.M.	6/A-601	7/A-601	8/A-601
107A	OFFICE	82	H.M	P-2	3' - 0"	6' - 8"	1 3/4"	Α	H.M.	6/A-601	7/A-601	5/A-601
200A	ENTRY	Α	ALUMINUM	CLEAR ANODIZED	6' - 0"	7' - 0"	N/A	MANUE	ALUMINUM	-	_	5/A-601

4. WHERE DISCREPANCIES OCCUR BETWEEN THE DOOR SCHEDULED NOTES AND HARDWARE SPECIFICATIONS, NOTIFY THE ARCHITECT OF DISCREPANCIES TO RECEIVE DIRECTION ON HOW TO PROCEED.

HARDWARE SCHEDULE

HARDWARE GROUP A SET 1A - SALES/CORRIDOR SET 1B - CORRIDOR/STOCKROOM			HARDWARE GROUP B SET 2A - RESTROOMS SET 2B - OFFICE SET 2C - REFAKEDOOM			
			SET 2C - BRE	AKROOM		
	ULUGER.	MAX OPENING FORCE) ADJUST MOUNTING POINTS FOR MIN. 120 DEGREE ROTATION.	HINGERS:	HANGER AB850, 1-1/2 PAIR STAINLESS STELL		
	HINGERS:	HANGER AB850, 1-1/2 PAIR STAINLESS STELL	LOCK 2A:	STANLEY MANUF BEST 9K3-O-L-15-STK-626 (26D)		
		MARKAR, ASS ABLOY HINGE #B1923, SUPPORT PIVOT, US2G.	LOCK 2B:	STANLEY MANUF BEST 9K3-7-AB-15D-STK-626		
	PULL 1A:	HANGER 4"X16" #31J		(200)		
		PULL PLATE W/#1J PULL, STAINLESS #4 FINISHED METAL	LOCK 2C:	KABA-E-PLEX 2000 SERIES WITH POWERSTAR OPTION, 7-PIN BEST ACCEPTABLE CORE, SATIN CHROME FINISH		
	PUSH 1A:	HANGER 4:X16" #30S				
		PUSH PLATE STAINLESS #4 FINISHED METAL WITH STAINLESS #4 FINISHED METAL COUNTERSUNK	STOP:	IVES #438 FLOOR MTD. WITH RISER AS REQUIRED US265D.		
		SCREWS	SILENCER:	RESILIENT TYPE, REMOVABLE FOR REPLACEMENT		
	LOCK 1B:	KABA-E-PLEX 2000 SERIES WITH POWERSTART OPTION, 7-PIN BEST ACCEPTABLE CORE, STAIN CHROME FINISH. *USED ONLY ON CORRIDOR/ STOCKROOM DOOR WHEN EGRESS CORRIDORS ARE REQUIRED AND SHOWN ON PLAN.		3 EACH DOOR, MTD. IN FRAME.		
	STOP:	IVES #445 WALL MTD. OR #446 FLOOR MTD. AS REQUIRED US265D.				
	KICK PLATE:	46" X 24" 16 GA. KICK PLATE. INSTALL WITH S.S. COUNTERSUNK SCREWS ON PUSH SIDE.				
	SILENCER:	RESILIENT TYPE, REMOVABLE FOR REPLACEMENT, 3 EACH DOOR, MTD. IN FRAME.				
	SMOKE SEAL:	PEMKO #588D (USED AT RATED DOORS ONLY)				
	FOOT:	HOLD OPEN FOOD, HANGER 270D-US26D				
	HARDWARE G SET 3 - ENTR	ROUP C Y DOORS	HARDWAR SET 4 - VE	R <u>e group d</u> Stibule doors		
	CLOSER:	NORTON #8501-H OR APPROVED EQUAL. ADJUST MOUNTING POINTS FOR MIN. 120 DEGREE ROTATION.	CLOSER:	NORTON #8501-H OR APPROVED EQUAL. ADJUS MOUNTING POINTS FOR MIN. 90 DEGREE ROTATION.		
	PULL:	HANGER PULL #11E, 32D OR APPROVED EQUAL	PULL:	HANGER PULL #P4E, 32D OR APPROVED EQUAL		
	PUSH:	HANGER PUSH #130S, 32D OR APPROVED EQUAL	PUSH:	HANGER PUSH #130S, 32D OR APPROVED EQUA		
	LOCK:	7-PIN BEST ACCEPTABLE CYLINDER WITH TEE TURN INSIDE AND EXTERIOR CYLINDER GUARD,	LOCK:	NO LOCKSET, INSTALL BLANKS		
		MANJOR MANUF. #CGL-26D	STOP:	HANGER 268S - FINISH TO MATCH STOREFRONT		
	FOOT:	HOLD OPEN FOOD, HANER 270D-US26D. FINISH TO MATCH STOREFRONT	FOOT:	HOLD OPEN FOOD, HANER 270D-US26D. FINISH ⁻ MATCH STOREFRONT		
	WEATHERING	: PER MANUF. SPECS, INCLUDING FLOOR SWEEPS	THRESHOL	LD: NO THRESHOLD		
	CHAIN HOLD:	HANGER - DOOR CHAIN - #300D-25 1/2" - US26D				
	THRESHOLD:	8" STANDARD MILL FINISHED THRESHOLD. T.G.C. TO CLEAN THRESHOLD PRIOR TO WALK-				

THROUGH.

6 DETAIL @ INTERIOR THRESHOLD A-601 SCALE: 6" = 1'-0"

GENERAL NOTES:

- 1. REFER TO SPECIFICATION FOR MORE STOREFRONT DETAILS.
- 2. REFER TO SPECIFICATION FOR DOOR HARDWARE SCHEDULES.
- 3. INDICATE TEMPERED GLASS

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	A	DEVELOPMENT BY: DEVELOPMENT BY: The provided and the pr	
	7 BF	7401 ALCOA RD RYANT, AR 72022	
P. B MAR	rint Record ICH 2018	PERMIT SET	
R	levisions		
	Date	Project No.	
13	MARCH 2018	2017259.00	
13 5 DC	Date MARCH 2018 Sheet Title DOR SCHED	Project No. 2017259.00	

Sheet No. **A-601** Released for Construction Not Released for Construction

1	WINDOW TYPE "A"	
A-602	SCALE: 1/4" = 1'-0"	

						1 A-301	
		//	//	//	//	//	
	EQ	EQ	EQ	EQ	EQ	EQ	1'-6'
7		L	L ``		38'-2"		Ĺ

2 WINDOW TYPE "B"

A-602 SCALE: 1/4" = 1'-0"

4 WINDOW TYPE "D"

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

GENERAL NOTES:

- 1. REFER TO SPECIFICATION FOR MORE STOREFRONT DETAILS.
- 2. REFER TO SPECIFICATION FOR DOOR HARDWARE SCHEDULES.
- 3. INDICATE TEMPERED GLASS

ΚEΥ	DESCRIPTION	MANUFACTURER	SPEC/FINISH	COLO
B-1	4" VINYL BASE	ARMSTRONG	JET BLACK	V4860
C-1	MTL/WOOD DECK - OPEN TO JOISTS ABOVE - NO HUNG CEILING	SHERWIN WILLIAMS	WATERBORNE DRYFALL LOW VOC - FLAT SHEEN	SW-7005
C-2	24" X 48" ACOUSTIC CEILING SYSTEM	ARMSTRONG	CORTEGA	747
C-3	GYPSUM BOARD CEILING LEVEL 5 FINISH	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC SEMI GLOSS SHEEN	SW-7005
F-1	POLISHED CONCRETE OVER (E) CONCRETE SLAB	QUESTMARK CONC. POLISHING SYSTEM	SLAES AREA & CORRIDOR AREA	N/A
F-2	12' X 12' X 1/8" VCT	ARMSTRONG	FIELD GRAY / S515, S-515 ADHESIVE	51927
F-3	POLISHED CONCRETE OVER (E) CONCRETE SLAB	QUESTMARK CONC. POLISHING SYSTEM	STOCK ROOM AREA	N/A
F-4	18' X 18' X 1/8" LUXURY VINYL FLOORING	TANDUS CENTIVA	CONTOUR SOAPSTONE	0712
F-5	6' X 82.5' X 1/16" INLAID SHEET VINYL FLOORING	ARMSTRONG DECO ART - CORLON	WHITE CLIFFS S-543 ADHESIVE	88702
F-6	12" X 12" X 5/16" CERAMIC TILE 1/4" GROUT JOINTS	TILE - DELTILE, GROUT - MAPEI	TILE - VANILLA, GROUT - ALABASTER	QH23 (1)
P-1	PURE WHITE PAINT - CEILING	SHERWIN WILLIAMS	WATERBORNE DRYFALL LOW VOC - FLAT SHEEN	SW-7005
P-2	PURE WHITE PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC SEMI GLOSS SHEEN	SW-7005
P-3	PURE WHITE PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC EGG-SHELL SHEEN	SW-7005
\A/ 1	WALL PAPER (PROVIDED BY E.B.)	VISION INTEGRATED GRAPHICS	CUSTOM	

1.	NO DIFFERENCE IN FLOOR
2.	T.G.C. TO VERIFY AND COO
3.	T.G.C. TO VERIFY ALL HVAC
4.	ALL PAINT USED MUST BE F
5.	PROVIDED COLOR SWATCH
6.	PATCH AND REPAIR ALL W
7.	ALL EXISTING OUTLETS TO
8.	NO PAINTING IS REQUIRED

3. INDICATE TEMPERED GLASS

2. REFER TO SPECIFICATION FOR DOOR HARDWARE SCHEDULES.

1. REFER TO SPECIFICATION FOR MORE STOREFRONT DETAILS.

GENERAL NOTES:

RANDALL PAULSON architects KANS MARCH 13, 2018 Roswell Mill 85-A Mill Street Suite 200 Roswell, Georgia 30075 t 770.650.7558 f 770.650.7559 e-mail architects@randallpaulson.com architecture/interiors These plans and specifications are the property of Randall-Paulson Architects, Incorporated. These documents may not be copied, reproduced, used or implemented in any way, in part or in whole, without the written consent of Randall-Paulson Architects, Incorporated. All common law rights of copyright are hereby specifically reserved. FIVE BELOW A DEVELOPMENT BY: Hall Equities Group 7401 ALCOA RD BRYANT, AR 72022 Print Record PERMIT SET

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ORDINATE WITH FIVE BELOW REP THAT ANY ALL L.L. SUPPLIED ITEMS ARE INSTALLED TO FIVE BELOW'S APPROVAL.

C AND ELECTRICAL EQUIPMENT PROVIDED BY L.L. IS PER PLANS, U.N.O.

FROM SHERWIN WILLIAMS AND MATCH THE FIVE BELOW'S PROCESS AND RECOMMENDED PRIMER SPECIFICATIONS.

CHES ON SITE TO ENSURE THAT THE PAINT IS PURCHASED MATCHES THE COLORS.

VALLS AS NEEDED TO BE READY FOR PAINT.

o remain.

D BELOW 7'-6" FOR AREAS BEHIND SHELVING IN THE SALES AREA.

DESIGN:

BUILDING CODE: INTERNATIONAL BUILDING CODE 2012 (IBC) W/ ARKANSAS AMENDMENTS WIND:

Vult = 115 MPH (3-SECOND GUST) Iw = 1.0, EXPOSURE CATEGORY B

COMPONENTS AND CLADDING: COMPONENTS AND CLADDING ELEMENTS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS SHALL BE DESIGNED ACCORDING TO THE WIND PRESSURES STIPULATED BY IBC 2012 FOR THE TRIBUTARY AREA OF THE SPECIFIC COMPONENT.

MIN ULT DESIGN PRESSURE = 23.0 PSF (WALLS, 100 SQ FT, NON-END ZONE)

SNOW:

- GROUND SNOW LOAD = 10 PSF ls = 1.0 FLAT ROOF SNOW LOAD = 10 PSF
- SNOW EXPOSURE FACTOR Ce = 1.0 SNOW THERMAL FACTOR Ct = 1.0

SEISMIC:

- OCCUPANCY CATEGORY || le = 1.0 lp = 1.0 Ss = 0.343 S1 = 0.145 Sds = 0.349 Sd1 = 0.215 SITE CLASS = D SEISMIC DESIGN CATEGORY = D
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SEISMIC RESISTING SYSTEM:

SEISMIC LOAD RESISTING SYSTEM IS REMAINING UNCHANGED

DRAWING LIST:

S-001 S	STRUCTURAL NOTES
S-101 F	FOUNDATION & ROOF FRAMING PLAN

MISCELLANEOUS

- 1. THE FOLLOWING NOTES APPLY TO ALL PROJECT RELATED STRUCTURAL DRAWINGS. THIS INCLUDES THESE DRAWINGS, FIELD SKETCHES AND RESPONSES TO REQUESTS FOR INFORMATION (RFI'S), UNLESS OTHERWISE INDICATED.
- 2. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
- 3. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- 4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- 5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY BRACING AND SHORING THAT MAY BE REQUIRED AS A RESULT OF THE CONTRACTORS CONSTRUCTION METHODS AND/OR SEQUENCES. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. APPLIED CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF ANY STRUCTURAL BUILDING ELEMENT.
- 6. THE CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION LIFECYCLE.
- 7. DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.
- 8. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 9. WHERE A SECTION OR DETAIL IS CUT ON THE PLAN, IT IS UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- 10. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECTS OR ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE WITH OSHA REGULATIONS.
- 11. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES, AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 12. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IN WRITING OF ALL CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- 13. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
- 14. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- 15. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.
- 16. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. OPENINGS 1'-4" IN WIDTH OR LENGTH (AND LESS) ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ALL REQUIRED OPENINGS. ALL MECHANICAL OPENING LOCATIONS, UNIT OPERATING WEIGHTS, AND SIZES SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

SUBMITTALS:

- 1. STRUCTURAL DRAWINGS GIVE REPRESENTATIVE DETAILS AND ARE NOT INTENDED TO SHOW ALL CONDITIONS THAT MAY BE PRESENT. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS AS INDICATED IN THE PROJECT DOCUMENTS.
- DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 3. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL FABRICATED AND SPECIALTY BUILDING COMPONENTS INCLUDING (BUT NOT LIMITED TO) TIMBER ROOF TRUSSES. SHOP STATE OF ARKANSAS.
- 4. ALL APPROVED SUBMITTALS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, SHALL BE MADE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR.
- 5. REPRODUCTION OF CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT

PERMITTED. FOUNDATIONS

- 1. SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ASSUMED NET ALLOWABLE BEARING PRESSURE OF 1.5 KSF FOR STRIP FOOTINGS.
- 2. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH CIVIL DRAWINGS AND PROJECT PRIOR TO THE ISSUANCE OF THESE DRAWINGS. A QUALIFIED GEOTECHNICAL ENGINEER ENGINEER..
- 3. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NONEXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS (AS RECOMMENDED BY A QUALIFIED GEOTECHNICAL ENGINEER).
- 4. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
- 5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
- 6. IN AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE SOIL THAT IS PRESENT TO AT LEAST 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY THE AREAS SHOULD BE COMPACTED TO 98% OF THE MATERIALS MAXIMUM DRY DENSITY AS TO ENSURE COMPLIANCE.
- THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF AN INDEPENDENT TESTING AGENCY PRIOR TO CASTING OF THE CONCRETE.
- 8. ALL EXCAVATIONS AND STRUCTURE BEARING PADS SHALL BE INSPECTED BY AN NDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDEN TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.
- 9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-6" BELOW FINAL GRADE FOR FROST PROTECTION.
- 10. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO 1 VERTICAL) TO A FOOTING. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
- 11. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.

CONCRETE

- 1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-11 AND ACI 301-10.
- 2. CEMENT USED SHALL BE TYPE I OR III CONFORMING TO ASTM C-150. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY STRENGTH AND DENSITY AS FOLLOWS:

FOOTINGS/SLAB

3. AGGREGATE SHALL BE WELL GRADATED AND SHALL CONFORM TO THE FOLLOWING:

FOOTINGS, SLAB-ON-GRADE (DENSITY 145 - 150 PCF)

4. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS BY EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS. RESULTS OF ALL COMPRESSIVE STRENGTH TEST SHALL BE MADE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.

ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.

- 6. NO ADDITIONAL WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE.
- 7. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE: A. #11 BARS AND SMALLER: 3/4 INCHES B. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 INCHES
 - C. BASEMENT WALLS: 2 INCHES EXTERIOR 3/4 INCHES INTERIOR
 - D. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER: 2 INCHES #5 BARS AND SMALLER: 11/2 INCHES
 - E. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: BEAMS, GIRDERS AND COLUMNS: 11/2 INCHES SLABS, WALLS, AND JOISTS: 3/4 INCHES

2. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER

DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE

SPECIFICATIONS. A GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED ON THIS SITE SHALL VERIFY ALL ASSUMPTIONS AND REPORT ANY VARIATIONS OR DISCREPANCIES TO THE

ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND

AT THIS SITE AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER. ROCKS GREATER THAN 6 IN. SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES IN DEPTH AND SHALL BE COMPACTED STANDARD COMPACTION TEST (ASTM D698). THE UPPER 12" OF FILL BENEATH STRUCTURAL DETERMINED BY THE STANDARD COMPACTION TEST (ASTM D698), ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY

7. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF

DENSITY (PCF) STRENGTH (PSI) 3000 145 - 150

1" COARSE AGGREGATE (ASTM C-33)

5. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN

- 8. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-11.
- 9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS AND ENCASED OR EMBEDDED ITEMS.
- 10. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITIOM.
- 11. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
- 12. REINFORCING SHALL CONFORM TO ASTM AG15, GR60 UNLESS NOTED OTHERWISE.
- 13. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), LATEST EDITION.
- 14. ALL "CONTINUOUS" REINFORCEMENT SHALL HAVE MINIMUM LAP OF "B" TYPE (ACI 318-11, SECTION 12.15.1) AT SPLICES UNLESS NOTED OTHERWISE.
- 15. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- 16. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" (27TH EDITION).
- 17. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNLESS NOTED OTHERWISE.

COLD FORM METAL FRAMING (METAL STUDS):

- 1. METAL STUDS SHALL BE FABRICATED AND ERECTED PER 2007 AISI "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
- 2. UNLESS NOTED OTHERWISE, TRACKS SHALL BE SAME DEPTH AS STUDS AND EQUAL OR THICKER GAUGE THAN STUDS. TRACKS SHALL BE CONNECTED TO SUPPORTS AT 16" OC MAX.
- 3. ALL 43 MIL MATERIAL (AND LESS) SHALL HAVE A MINIMUM YIELD OF 33,000 PSI (UNLESS) NOTED OTHERWISE). ALL 54 MIL MATERIAL (AND GREATER) SHALL HAVE A MINIMUM YIELD OF 50,000 PSI (UNLESS NOTED OTHERWISE).
- 4. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING: A. SHOP DRAWINGS FOR ALL COMPONENTS AND INSTALLATIONS NOT FULLY DIMENSIONED OR DETAILED IN MANUFACTURER'S PRODUCT DATA.
 - B. PRODUCT CATALOG WITH SECTION AND MATERIAL PROPERTIES OF ALL MATERIAL.
- 5. ALL STUDS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A HOT-DIPPED, GALVANIZED COATING MEETING ASTM A653 G60 AND C955, U.N.O.
- 6. INSTALLATION:
- A. TRACKS:

INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. PROVIDE FASTENERS AT CORNERS AND END OF TRACKS. ALL TRACK BUTT JOINTS SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT WELDED OR SPLICED TOGETHER.

B. WALL STUDS:

SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES. ATTACH STUDS WITH SLIP-TRACK CONNECTION TO UNDERSIDE OF BEAMS TO ALLOW 1" VERTICAL DEFLECTION OF STEEL BEAM (NOT APPLICABLE IN LOAD BEARING APPLICATIONS). AT LOAD BEARING APPLICATIONS, SLIP-TRACK CONNECTION SHALL ACCOMMODATE A DEFLECTION OF BEAM SPAN DIVIDED BY 240.

C. SUPPLEMENTARY FRAMING:

PROVIDE BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHEREVER WALL OR PARTITIONS ARE INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICE CASEWORK, HEAVY TRIM AND FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO THE WALL OR PARTITION. WHERE TYPE OF SUPPLEMENTARY SUPPORT IS NOT OTHERWISE INDICATED, COMPLY WITH STUD MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS IN EACH CASE, CONSIDERING WEIGHT OR LOADING RESULTING FROM ITEM SUPPORTED.

D. WALL OPENINGS:

OPENINGS LARGER THAN 2 FEET SQUARE TO BE FRAMED WITH A MINIMUM OF DOUBLE STUDS AT EACH JAMB OR FRAME EXCEPT WHERE MORE ARE REQUIRED.

E. ALL MEMBERS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO SUPPORTING MEMBERS.

- 7. ALL SCREWS SHALL BE NON CORROSIVE NO. 12-14 STANDARD SELF DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED FASTENERS).
- 8. ALL SCREWS SHALL HAVE A MINIMUM EDGE DISTANCE OF 1" UNLESS NOTED OTHERWISE ON DRAWINGS.
- 9. ALL SCREWS SHALL BE A MINIMUM OF 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS.
- 10. ALL METAL STUD WALLS SHALL HAVE WALL CONTINUOUS WALL BRIDGING @ 3'-6" OC MAXIMUM. CONTINUOUS BRIDGING MAY CONSIST OF 11/2" - 33 MIL STRAPS (21/2" - 43 MIL AT WALLS USED AS SHEAR WALLS OR WALLS WITH "X" STRAP BRACING). AS AN ALTERNATE TO STRAP BRIDGING, FOR 3 5/8" OR 4" STUDS ONLY, PROVIDE 11/2" CRC CHANNEL BRIDGING (150-U50-54 AT THE CENTERLINE OF STUDS WITH (2) #8 SCREWS PER ANGLE FLANGE.
- 11. CONTINUOUS STUDS EACH SIDE OF HEADERS SHALL BE EQUAL TO THE NUMBER OF THE INTERRUPTED STUDS PLUS ONE STUD AT EACH SIDE. USE MINIMUM OF TWO (2) STUDS EACH SIDE.
- 12. VOIDS BENEATH WALL TRACK SHALL NOT BE PERMITTED. WHERE UNEVENNESS OR SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY PLACING MORTAR OR GROUT BENEATH TRACK.
- 13. MINIMUM TRACK FASTENING INTO CONCRETE SHALL BE 0.145" DIAMETER POWDER ACTUATED FASTENERS AT 16" OC (UNO) WITH 3/4" PENETRATION INTO CONCRETE.

STRUCTURAL STEEL

<u>DESIGN CODE:</u>

14TH EDITION (AISC)

- 1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES: ALL CHANNELS, ANGLES, PLATES, ETC. (UNO) HIGH STRENGTH BOLTS HEX NUTS - GRADE A WELDING ELECTRODES WASHERS - TYPE I
- PROJECT SPECIFICATIONS.
- JOINTS USING ASTM A325 OR ASTM A490 BOLTS".
- WRITTEN APPROVAL OF THE ARCHITECT.
- DRAWINGS.
- 6. FABRICATE AND ERECT MEMBERS WITH NATURAL CAMBER UP.
- AT THE JOB SITE DURING TIMES OF INSPECTION.
- CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
- CONTRACTOR.
- MEMBERS.
- INSPECTIONS.
- RUST INHIBITIVE PRIMER.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS -

ASTM A36 (Fy=36ksi) ASTM A325 ASTM A563 E70xx HARDENED STEEL ASTM F436

2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (2010) EXCEPT AS MODIFIED IN THESE NOTES AND THE

3. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN ONLY AS THEY ARE DEEMED APPROPRIATE AND ADEQUATE. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH AISC 14TH EDITION "SPECIFICATIONS FOR STRUCTURAL

4. SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT

5. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE

7. UNLESS OTHERWISE SHOWN ON DRAWINGS, SIZE OF WELDS SHALL NOT BE SMALLER THAN 3/16" ALL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE

8. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL

9. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE

10. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL

11. WELDING INSPECTION SHALL MEET REQUIREMENTS AS STATED IN THE SCHEDULE OF SPECIAL

12. ALL STRUCTURAL STEEL NOT RECEIVING FIRE PROOFING SHALL RECEIVE ONE SHOP COAT OF

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A DEVELOPMENT BY:

Hall Equities Group

Real Estate Investment · Development · Manager

7401 ALCOA RD BRYANT, AR 72022

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Date 13 MARCH 2018 Sheet Title **STRUCTURAL** NOTES

Project No. 2017259.00

Sheet No. Released for Constructio Not Released for Constructio

CH CG CF CB CA CE 32'-0 1/4" 15'-8 3/4" 15'-9" 5 1/4" ? $\langle cs \rangle$ _____ — \{*\777727727727727* - 6005162-43 @ 16" OC WALL ROOF FRAMING -FRAMING W/ 600T150-43 T&B NOT SHOWN FOR - FASTEN BOT TRACK TO (E) CLARITY CONCRETE W/ HILTI 0.157"Ø X-U P.A.F. @ 16" OC STAGGERED -WALLS TO BE SHEATHED W/ $\frac{7}{16}$ (C7)---______P_____ PLYWOOD SHEATHING -FASTEN TO STUDS @ 6" OC EDGE & 12" OC FIELD (TYP) (E) 18K4 JOIST - TO REMAIN - SLAB DRAIN - SEE B/S-301 FOR MORE (E) W21 $\langle CG \rangle$ ____ __ __ __ __ (E) W21 (C5) ____ ___ ___ ___ \square <u>RTU-22B</u> 110Ø# (E) 18K4 JOIST - TO REMAIN (E) W21 $\langle C4 \rangle$ (E) W21 (C3) <u>RTU-22A</u> 1100 # (E) 20K6 JOIST -- TO REMAIN $\langle C1 \rangle$ (E) W10 _(E) W10 NOTICE TO CONTRACTOR: ROOF FRAMING PLAN NO PRIOR GEOTECHNICAL INVESTIGATION WAS PERFORMED PRIOR TO THE ISSUANCE OF THE DRAWINGS. THE STRUCTURAL NOTES: ENGINEER OF RECORD (SEOR) HAS MADE ASSUMPTIONS REGARDING THE EXISTING SOIL PARAMETERS BASED ON THE LIMITED SCALE: 3/32" = 1'-0" 5-101 SITE INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE ISSUED. THE DESIGN ASSUMES AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AND ASSUMES SLAB ON GRADE AND FOUNDATIONS ARE GEOTECHNICALLY VIABLE FOR THIS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL ASSUMPTIONS AS STATED ABOVE AND NOTIFYING HE SEOR OF ANY VARIANCES FROM THESE ASSUMPTIONS. EXISTING CONDITIONS DISCLAIMER: ASSUMPTIONS ON THE EXISTING STRUCTURE (NOTED AS "(E)" ON THE STRUCTURAL DRAWINGS) MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO EXECUTING WORK INCLÚDED IN THIS SCOPE OF STRUCTURÁL CONTRACT DOCUMENTS.

THESE VERIFICATIONS MAY REQUIRE THE ALTERATION, DAMAGE, OR DESTRUCTION OF DESIRABLE OR OTHERWISE SERVICEABLE BUILDING COMPONENTS. ALTERATION, DAMAGE, OR DESTRUCTION OF SAID COMPONENTS SHALL NOT CONSTITUTE A BASIS OF CLAIMS AGAINST WILLIAM J. PELTIER AND ASSOCIATES. THE OWNER AND GENERAL CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS WILLIAM J. PELTIER AND ASSOCIATES FROM ALL SUCH CLAIMS. DISCOVERY OF VARIATIONS FROM THESE ASSUMPTIONS MAY REQUIRE ADDITIONAL DESIGN SERVICES BY WILLIAM J. PELTIER AND ASSOCIATES WHICH WILL BE BILLED AT THE HOURLY RATE PER RATE SCHEDULE INCLUDED IN THE CONTRACT. 2. THE GENERAL CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN ASSUMPTIONS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT/ENGINEER.

1. (E) INDICATES EXISTING.

2. (N) INDICATES NEW.

3. SEE 1-4/S-301 FOR REQUIRED TYPICAL ROOF TOP RTU SUPPORT SUPPLEMENTAL FRAMING. 4. ∠Or INDICATES ³/₄ PLYWOOD DECK - FASTEN TO FLOOR FRAMING @ 6" OC EDGE \$ 12" OC FIELD W/ #10 TEK SCREWS

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Revisions

Date Project No. 13 MARCH 2018 2017259.00 Sheet Title FOUNDATION AND ROOF FRAMING PLAN

Sheet No.

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	PIPE SUPPORT - MIRO MODEL POLYCARBONATE RESIN WITH SHAPED CRADLE PIPE SUPPORT	1.5 H"U" () () () () () () () () () () () () ()	Print Record 13 MARCH 2018
END VIEW			
01 SCALE: N.T.S.	PPORT DETAIL	<u> (ROOF)</u>	Revisions
		GEI GRIFFIT ENGINEERIN ATLANTA - CHARLOTTE	Date <u>13 MARCH 20</u> Sheet Tit DETAILS -

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FAN SCHEDULE

EQUIPMENT	SERVICE	LOCATION	CFM	STATIC		MOTOR	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
NO.				PRESS. (IN. W.G.)	HP	VOLTPHCY.		
TEF-1	EXHAUST	CEILING	78	0.125	25 W	120-1-60	DAYTON 1UBH7	1, 2, 3
TEF-2	EXHAUST	CEILING	78	0.125	41	120-1-60	DAYTON 1UBH7	1, 2, 3

<u>NOTES:</u> 1. FAN SHALL BE CONTROLLED BY LIGHT SWITCH.

		R	OOF	TOP	AI	r ha	NDLIN	VG L	JNI	Τ	SCHEDULE	
	SUPPLY	OUTSIDE	FSP	COOI	lNG	HEA	TING	ELECT	RICAL			
TAG	AIR (CFM)	AIR AIR (CFM) (CFM)	AIR (CFM)	(IN. W.G.)	NOM. TONS	SEER (EER)	MBH INPUT	MBH OUTPUT	VPHCY.	MCA	МОСР	MANUFACTURER & MODEL
RTU-22A	4,000	860	0.6	10	(10.5)	180	147.6	460-3-60	24.8	30	CARRIER 48HJD012	
RTU-22B	4,500	860	0.6	12.5	(8.6)	250	200	460-3-60	30.7	35	CARRIER 48HJD014	
RTU-20	6,000	1175	0.6	15	(12.2)	300	240	460-3-60	32.2	45	YORK ZJ180N30R4D5HAA1C1	
RTU-21	5,000	1175	0.6	12.5	(120)	240	192	460-3-60	41.3	50	YORK ZA150N24R4D5HAA1A1	
RTU-22	7,500	_	0.6	15	(11.5)	250	205	460-3-60	37.0	45	CARRIER 48HGD016	

OUTSIDE AIR BASED ON 2010 ARKANSAS CODE TABLE 403.3 FOR RETAIL SPACE. OUTSIDE AIR VALUES TO BE COORDINATED WITH TENANT FIT-UP PLANS.
 PROVIDE UNIT WITH ASITE TM46 THERMOSTAT, ORDERED THROUGH POWERHOUSE DYNAMICS.

3. PROVIDE UNIT WITH DOWNFLOW ECONOMIZER WITH POWER EXHAUST, LOW AMBIENT HEAD PRESSURE CONTROLS, SMOKE DETECTOR, ROOF CURB, THRU-THE-BOTTOM SERVICE CONNECTIONS AND 120V GFCI CONVENIENCE OUTLET. 4. PROVIDE UNIT WITH A SMOKE DETECTOR.

5. UNIT TO BE ABANDONED IN PLACE.

OUTSIDE AIR CALCULATIONS											
SPACE NAME	CLASSIFICATION	AREA (SF)	PEOPLE/1000SF	PEOPLE	CFM/PERSON	CFM/SF	PPL OA (CFM)	SF OA (CFM)	CFM REQUIRED	EFFECTIVENESS FACTOR	TOTAL CFM REQUIRED
5 BELOW	SALES	7,500	15	113	7.5	0.12	843.8	900	1743.8	0.8	2179.8
5 BELOW	OFFICE	70	5	0	5	0.06	1.8	4.2	6.0	0.8	7.5
5 BELOW	STORAGE	1,037	0	0	0	0.12	0	124.4	124.4	0.8	155.5
5 BELOW	BATHROOM	140	0	0	0	0.00	0	0.00	0.00	0.8	EXHAUST ONLY
									RTU-20 & RTU	J-21 REQUIRED	2342.8
									RTU-20 & RTU	J-21 DELIVERED	2350
TENANT B	SALES	5,900	15	89	7.5	0.12	663.8	708	1371.8	0.8	1713.8
AIRFLOW VALUES A	AIRFLOW VALUES ARE FROM THE 2010 ARKANSAS MECHANICAL CODE, CHAPTER 4, TABLE 403.3 RTU-22A & RTU-22B REQUIRED								1713.8		
									RTU-22A & RTU	J-22B DELIVERED	1720

/-- NECK SIZE 12x12 300 — сғм 3W - THROW DIRECTIONS (4-WAY IF NOT NOTED) DEVICE TYPE MARK (SEE SCHEDULE)

AIR DISTRIBUTION DEVICES KEY NO SCALE

AIR	DISTRIBUTION SCHEDULE
MARK	DESCRIPTION
$\langle A \rangle$	LOUVERED FACE SUPPLY AIR DIFFUSER: TITUS MODEL <u>TMS-AA</u> . NOMINAL 12"x12" PANEL SIZE. FRAME SUITABLE FOR T-BAR CEILING OR GYPSUM. STEEL CONSTRUCTION. PROVIDE ROUND NECK OR SQUARE NECK AS REQUIRED BY THE APPLICATION SEE PLANS. PROVIDE WITH MODEL D-75 OPPOSED BLADE DAMPER.
B	RETURN AIR GRILLE WITH BLADES ON 3/4" CENTER, PARALLEL TO THE LONG DIMENSION AND SET AT 35 DEG. PROVIDE WITH STANDARD WHITE FINISH, LAY-IN BORDER FOR INSTALLATION IN CEILING OR SURFACE MOUNT BORDER SUITABLE FOR INSTALLATION IN DRYWALL TYPE CEILING. TITUS MODEL #350-FL OR APPROVED EQUIVALENT.
C	ALUMINUM CONSTRUCTION, SURFACE MOUNTED, LOUVERED FACE DOUBLE DEFLECTION REGISTER. PROVIDE WITH STANDARD WHITE FINISH AND OPPOSED BLADE DAMPER. TITUS MODEL #300-FS OR APPROVED EQUIVALENT.
	ALUMINUM CONSTRUCTION, CONCENTRIC SUPPLY/RETURN DIFFUSER WITH PLENUM. PROVIDE WITH STANDARD FINISH. RUSKIN MODEL CDS-20.

NOTES:

1. ALL DIFFUSERS, GRILLES & REGISTERS SHALL HAVE A BAKED OFF-WHITE ENAMEL FINISH.

2. PROVIDE ALUMINIUM CONSTRUCTION IN ALL TOILET ROOMS, LOCKER ROOMS AND SHOWER ROOMS.

3. LISTED SIZE ON DRAWING IS NECK SIZE.

4. TRANSITION FROM DUCT SIZE TO NECK SIZE AS REQUIRED.

GAS FIRED UNIT HEATER SCHEDULE

											-
EQUIPMENT	SERVICE	CFM	INPUT	OUTPUT	EFFIC-	GAS	GAS	VENT		ELECTRIC	
NO.			(MBH)	(MBH)	IENCY A.F.U.E.	RATE (CFH)	CONN. SIZE	OUTLET SIZE	AMPS	VPHCY.	N
UH	RECEIVING	2049	120	99.6	83%	120	1/2"	4ӯ	30	115-1-60	

<u>NOTES:</u> 1. VERTICAL CONCENTRIC COMBUSTION AIR/VENT KIT (CC2)

2. FACTORY INSTALLED DISCONNECT SWITCH 3. 1-STAGE REMOTE THERMOSTAT (PROVIDED, INSTALLED, AND WIRED BY MECHANICAL CONTRACTOR)

4. 30° DOWNTURN NOZZLE

DULE	
RER & MODEL	NOTES
)12	1, 4 (RELOCATED)
)14	1, 4 (RELOCATED)
R4D5HAA1C1	1 - 4
R4D5HAA1A1	1 - 4
016	5

MANUFACTURER & MODEL MOTOR ΗP 3/4 REZNOR UDBS125

OPTIONS-ACCESSORIES

NOTES 1, 2, 3, 4

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SECTION 230010 - MECHANICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.1 PROJECT DESCRIPTION

A. THIS PROJECT INVOLVES THE INSTALLATION OF NEW AND RELOCATION OF EXISTING EQUIPMENT IN AN EXISTING BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MECHANICAL, ELECTRICAL, CONTROLS, ETC WORK AS REQUIRED TO ATTAIN A COMPLETE, OPERABLE SYSTEM.

1.2 EXISTING CONDITIONS

- A. CONTRACTOR SHALL NOTE THAT ALL WORK IS TO OCCUR WITHIN AN EXISTING FACILITY. CONTRACTOR SHALL CAREFULLY AND THOROUGHLY REVIEW EXISTING CONDITIONS WHICH WILL AFFECT WORK. WORK SHALL BE SCHEDULED TO AVOID CONFLICTS WITH BUILDING ACTIVITIES B. CONTRACTOR SHALL NOTE THAT THE BUILDING UTILIZES THE SPACE ABOVE THE CEILING AS A RETURN AIR PLENUM. ALL MATERIALS
- INSTALLED IN THE PLENUM SHALL BE RATED FOR USE IN A RETURN AIR PLENUM.
- 1.3 COORDINATION A. CONTRACTOR SHALL CAREFULLY COORDINATE WORK WITH ALL TRADES THROUGHOUT PROJECT.
- B. IN THE EVENT OF A BLATANT OR PERCEIVED DISCREPANCY BETWEEN EQUIPMENT QUANTITIES, SIZES, OR SCOPE DEFINITION WHEN COMPARING SPECIFICATIONS, DRAWINGS, EXISTING CONDITIONS, AND/OR VERBAL COMMUNICATION RECEIVED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- C. WHERE NEW EQUIPMENT IS REPLACING EXISTING, CONTRACTOR IS RESPONSIBLE FOR VERIFYING EQUIPMENT VOLTAGES PRIOR TO ORDERING EQUIPMENT. CONTRACTOR SHALL VERIFY ALL EQUIPMENT VOLTAGES PRIOR TO ORDERING EQUIPMENT. D. CONTRACTOR SHALL COORDINATE TO ALLOW PROPER ACCESS AROUND ALL NEW EQUIPMENT ALLOWING FOR ADEQUATE CLEARANCE TO ALLOW FOR MANUFACTURER'S RECOMMENDED CLEARANCES AND CODE-REQUIRED CLEARANCES.
- 1.4 CODE COMPLIANCE
- A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS, CODES, ORDINANCES, REGULATIONS, ETC. OF ALL FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 1.5 SLEEVES, SEALS, AND ESCUTCHEONS A. ALL PIPE PENETRATIONS OF CONCRETE OR MASONRY WALLS, ELEVATED FLOORS, OR ROOFS SHALL BE PROVIDED WITH SCHEDULE 40 STEEL PIPE SLEEVES WITH WATER STOP RINGS. SLEEVES SHALL BE FINISHED FLUSH WITH THE WALL OR ROOF SURFACE. B. ALL SLEEVES PENETRATING EXTERIOR WALLS OR ROOFS SHALL BE PACKED AND SEALED WATERTIGHT.
- 1.6 FIRE-STOPS
- A. A FIRE-STOP SHALL BE PROVIDED WHEREVER DUCTWORK, PIPING, CONDUIT, ETC. PENETRATES FIRE PARTITIONS, FIRE WALLS AND FLOORS TO MAINTAIN AN EFFECTIVE FIRE, SMOKE, AND GAS BARRIER.
- 1.7 TESTING AND BALANCING
- A. TEST AND BALANCE SHALL BE PERFORMED BY A CERTIFIED TESTING AND BALANCING CONTRACTOR.
- 1.8 MISCELLANEOUS
- A. DO NOT SCALE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. B. THE MECHANICAL PLANS ARE INTENDED TO BE DIGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE

PART 2 - PRODUCTS

- 2.1 BID BASIS / SUBSTITUTION PROCEDURES
- A. ENCLOSED DOCUMENTS LIST SPECIFIC MANUFACTURERS, MODEL NUMBERS, AND PERFORMANCE REQUIREMENTS FOR THE TYPE OF EQUIPMENT SPECIFIED. EQUIPMENT MUST MEET ALL SPECIFIED REQUIREMENTS. EQUIPMENT MUST BE OF THE SPECIFIED OR LISTED ALTERNATE MANUFACTURERS. ALTERNATE MANUFACTURERS SHALL MATCH SIZE, CAPACITY, AND APPEARANCE OF SPECIFIED EQUIPMENT. PROPOSED SUBSTITUTIONS WHICH REQUIRE A CHANGE IN DIMENSIONS, APPEARANCE, OR DESIGN SHALL BE SUBMITTED IN WRITING FOR APPROVAL.
- PART 3 EXECUTION

3.1 SUBMITTALS/SHOP DRAWINGS

- A. CONTRACTOR SHALL PROVIDE FOUR (4) COPIES OF MANUFACTURER'S PRODUCT LITERATURE FOR ALL EQUIPMENT AND MATERIAL PROPOSED FOR INSTALLATION. SUBMITTALS SHALL INCLUDE CATALOG INFORMATION, INSTALLATION DRAWINGS, AND PERFORMANCE CRITERIA FOR EACH PIECE OF EQUIPMENT.
- B. FOR ANY SUBSTITUTE EQUIPMENT WHICH IS APPROVED FOR INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL REQUIREMENTS INCLUDING ELECTRICAL, STRUCTURAL, SPACING, CLEARANCE, ETC. AS REQUIRED.
- C. FOR ALL DUCTWORK, PIPING, AND ASSOCIATED EQUIPMENT, CONTRACTOR SHALL PROVIDE FOUR (4) COPIES OF DETAILED PRODUCTION SHOP DRAWINGS DETAILING EXACT ROUTING/LOCATION OF PIPING, DUCTWORK, EQUIPMENT, ETC. SPOOL LENGTHS, TRANSITION SIZES, EXACT DIMENSIONS, SUPPORT METHODS, ETC. SHALL BE CLEARLY INDICATED.
- 3.2 INSTALLATION REQUIREMENTS
- A. ALL EQUIPMENT SHALL BE PROVIDED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. B. CONTRACTOR SHALL PROVIDE A COPY OF INSTALLATION, OPERATION, AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT PROVIDED.
- C. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED MOUNTING HARDWARE, SUPPORT STRUCTURES, PADS, CURBS, ETC. AS REQUIRED.
- 3.3 CLEANING, LUBRICATION, AND ADJUSTMENT
- A. ALL INSTALLED EQUIPMENT AND COMPONENTS SHALL BE CLEANED AND FREE OF DEBRIS PRIOR TO COMPLETION OF WORK. B. NEW FILTERS SHALL BE PROVIDED AT THE END OF CONSTRUCTION FOR ALL NEW & EXISTING EQUIPMENT REQUIRING FILTERS.
- 3.4 TESTING AND BALANCING
- A. HVAC TEST AND BALANCE SHALL BE PERFORMED ON ALL AIRSIDE EQUIPMENT TO VERIFY AIR FLOWS OF ALL EQUIPMENT/COMPONENTS SPECIFIED. TEST AND BALANCE SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED TEST AND BALANCE ENGINEER.
- B. CONTRACTOR SHALL PROVIDE 5 (FIVE) COPIES OF TEST AND BALANCE REPORTS NOTING TEMPERATURES SUPPLY/RETURN AIR TEMPERATURES. AIRFLOW READINGS FOR SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR SHALL ALSO BE REPORTED.
- 3.5 WARRANTY

A. ALL WORK PERFORMED UNDER THIS SCOPE OF WORK SHALL BE SUBJECT TO A WARRANTY FOR A MINIMUM OF ONE YEAR. THE WARRANTY SHALL INCLUDE ALL REQUIRED PARTS AND LABOR.

END OF SECTION 230010

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES INSULATING MATERIALS FOR PIPING AND DUCTWORK REQUIRED FOR THE WORK. REFER TO SCHEDULES ON THIS

SECTION 230713 - INSULATION

- SHEET. PART 2 - PRODUCTS
- 2.1 INSULATION GENERAL:
- A. DUCTWORK, PIPING, VALVES AND FITTINGS SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATIONS AND SCHEDULES.
- 2.2 GLASS FIBE
- A. MATERIAL: INORGANIC GLASS FIBERS, BONDED WITH A THERMOSETTING RESIN.
- B. JACKET: AS SPECIFIED FOR TYPES OF INSULATION.
- C. BOARD: ASTM C 612, CLASS 2, SEMI-RIGID JACKETED BOARD.
- 1. THERMAL CONDUCTIVITY: 0.26 AVERAGE MAXIMUM, AT 75°F MEAN TEMPERATURE.
- 2. DENSITY: 6 PCF AVERAGE MAXIMUM. 3. JACKET: FACTORY APPLIED, KRAFT PAPER, REINFORCING SCRIM, WITH ALUMINUM FOIL OR VINYL FILM.
- D. BLANKET: ASTM C 533, TYPE II, CLASS F-1, JACKETED FLEXIBLE BLANKETS
- 1. THERMAL CONDUCTIVITY: 0.32 AVERAGE MAXIMUM AT 75°F MEAN TEMPERATURE.
- DENSITY: 0.75 PCF AVERAGE MAXIMUM.
- 3. JACKET: FACTORY APPLIED, KRAFT PAPER, REINFORCING SCRIM, WITH ALUMINUM FOIL OR VINYL FILM.
- E. PREFORMED PIPE INSULATION: ASTM C 547, CLASS 1, RIGID PIPE INSULATION, JACKETED.
- 1. THERMAL CONDUCTIVITY: 0.26 AVERAGE MAXIMUM AT 75°F MEAN TEMPERATURE 2. DENSITY: 10 PCF AVERAGE MAXIMUM.
- 3. JACKET: FACTORY APPLIED, KRAFT PAPER BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS.
- F. ADHESIVE: PRODUCED UNDER THE UL CLASSIFICATION AND FOLLOW-UP SERVICE. 1. TYPE: NON-FLAMMABLE, SOLVENT BASED
- 2. SERVICE TEMPERATURE RANGE: MINUS 20°F TO 180°F.
- 2.2 FLEXIBLE ELASTOMERIC CELLULAR
- A. MATERIAL FLEXIBLE EXPANDED CLOSED-CELL STRUCTURE WITH SMOOTH SKIN ON BOTH SIDES.
- 1. TUBULAR MATERIALS: ASTM C 534, TYPE I. SHEET MATERIALS: ASTM C 534, TYPE II
- B. THERMAL CONDUCTIVITY: 0.30 AVERAGE MAXIMUM AT 75°F
- C. COATING: WATER-BASED LATEX ENAMEL COATING RECOMMENDED BY INSULATION MANUFACTURER. PROVIDE ULTRAVIOLET-PROTECTIVE COATING RECOMMENDED BY THE MANUFACTURER.
- D. APPLICATION: EXTERIOR PIPING ONLY. NOT ACCEPTABLE IN RETURN AIR PLENUM.
- 2.3 FIRE BARRIER PLENUM WRAP
- A. FLEXIBLE, FIRE-RESISTANT WRAP WITH INNER BLANKET ENCAPSULATED WITH A SCRIM-REINFORCED FOIL COVERING; 2" THICK, MINIMUM 6 PCF, WITH MAX. FLAME SPREAD INDEX AND SMOKE DEVELOPED INDEX OF THE FOIL ENCAPSULATED BLANKET = 25/50.
- B. APPLICATION: PROVIDE FOR ITEMS IN RETURN AIR PLENUM TO PROVIDE A PROTECTIVE COVERING OVER EXISTING ITEMS THAT DO NOT MEET CODE REQUIREMENTS FOR INSTALLATION IN A RETURN AIR PLENUM.
- 2.4 INSULATING CEMENTS A. PROVIDE INSULATING CEMENTS AS RECOMMENDED BY INSULATION MANUFACTURER COMPLYING WITH APPLICABLE ASTM SECTION.

2.5 ADHESIVES

- 2.6 JACKETS
- A. ALUMINUM JACKET: ASTM B209, 3003 ALLOY, H-14 TEMPERED, ROLL STOCK READY FOR SHOP OR FIELD CUTTING. 1. SMOOTH FINISH, 0.010 INCH THICK.
- 2. CORRUGATED FINISH, 0.010 INCH THICK.
- 2.7 REMOVABLE/REUSABLE INSULATION COVERS

 - CONTINUOUS INSULATION. B. MATERIALS
 - 1. INNER JACKETING: 17 OZ/CU. FT. PTFE COATED FIBERGLASS CLOTH.
 - 2. OUTER JACKETING: 17 OZ/CU. FT. PTFE COATED FIBERGLASS CLOTH. 3. SIDE GUSSETS: 17 OZ/CU. FT. PTFE COATED FIBERGLASS CLOTH.
 - 4. INSULATION CORE: 2" THICK 6#/CU. FT. DENSITY "ET" BLANKET 5. SEAM CLOSURE: PTFE COATED FIBERGLASS THREAD

PART 3 - EXECUTION 3.1 PREPARATION

- INSULATION APPLICATION.
- 3.2 GENERAL INSTALLATION REQUIREMENTS
- THROUGHOUT THE LENGTH OF DUCTS AND FITTINGS.
- SYSTEM AS SPECIFIED IN INSULATION SYSTEM SCHEDULES.
- NOT CORRODE, SOFTEN, OR OTHERWISE ATTACK INSULATION OR JACKET IN EITHER WET OR DRY STATE.

END OF SECTION 230713

PART 1 - GENERAL

- 1.1 SUMMARY
- A. SECTION INCLUDES: 1. RECTANGULAR DUCTS AND FITTINGS.
- 2. ROUND DUCTS AND FITTINGS.
- 3. SHEET METAL MATERIALS. FLEXIBLE DUCT.
- 5. DUCT LINER.

2.2 SHEET METAL MATERIALS

2.3 FLEXIBLE TYPE DUCT

2.4 SEALANT AND GASKETS

PART 3 - EXECUTION

3.1 DUCT INSTALLATION

CERTIFIED BY AN NRTL

AREA IS MAINTAINED.

3.3 HANGER AND SUPPORT INSTALLATION

1. AIR DISTRIBUTION DEVICES

SIZE, AND ACCESSORIES FURNISHED.

DUCT LINER

END OF SECTION 233113

PART 1 - GENERAL

A. SECTION INCLUDES:

PART 2 - PRODUCTS

2.1 MANUFACTURERS

4. TITUS.

2.2 SELECTION CRITERIA

PART 3 - EXECUTION

3.1 EXAMINATION

3.2 INSTALLATION

3.3 ADJUSTING

AIR BALANCING.

END OF SECTION 233713

RECOMMENDATIONS

1. METALAIRE, INC.

PRICE INDUSTRIES.

2. NAILOR INDUSTRIES INC

1.1 SUMMARY

1.2 SUBMITTALS

3.2 DUCT SEALING

- 6. SEALANTS AND GASKETS. 7. HANGERS AND SUPPORTS.
- 1.2 SUBMITTALS
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

PART 2 - PRODUCTS 2.1 RECTANGULAR AND ROUND DUCTS AND FITTINGS

A. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", INCLUDING CHAPTER 3 "ROUND, OVAL AND FLEXIBLE DUCT," BASED ON APPROPRIATE STATIC-PRESSURE CLASS.

ARE APPROVED ON COORDINATION DRAWINGS.

F. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS

C. USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 6 LINEAR FEET PER RUN.

ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED, INCLUDE THE FOLLOWING:

WITH INSTALLATION. NOTIFY ARCHITECT FOR A DETERMINATION OF FINAL LOCATION.

WALL SHALL BE SET TO BLOW DIRECTLY AWAY FROM, OR PARALLEL TO, THE WALL,

THROW AND DROP, STATIC-PRESSURE DROP, AND NOISE RATINGS.

THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON THE DRAWINGS.

G. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.

I. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING

D. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT

A. PROVIDE ADHESIVES AS RECOMMENDED BY INSULATION MANUFACTURER FOR TYPE AND LOCATION OF INSULATING MATERIALS.

3. ELBOWS: PREFORMED, 45 AND 90 DEGREE ELBOWS; SAME MATERIAL, FINISH AND THICKNESS AS JACKET.

A. APPLICATION: PROVIDE OVER ALL OPERABLE VALVES AND PRESSURE REDUCING STATION COMPONENTS NOT COVERED WITH

6. SEAM FASTENERS: PTFE CLOTH STRAPS WITH STAINLESS STEEL DOUBLE D-RINGS AND TYPE 304 LACING HOOKS & 16 GA S.S. TIE

A. SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT

A. INSTALL INSULATION MATERIALS, ACCESSORIES, AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES FREE OF VOIDS

B. INSTALL INSULATION MATERIALS, VAPOR BARRIERS OR RETARDERS, JACKETS, AND THICKNESSES REQUIRED FOR EACH ITEM OF DUCT

C. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE. INSTALL ACCESSORIES THAT DO

SECTION 233113 - DUCTWORK

A. GENERAL MATERIAL REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR

A. GENERAL: FLEXIBLE DUCTWORK SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL

A. GENERAL SEALANT AND GASKET REQUIREMENTS: SURFACE-BURNING CHARACTERISTICS FOR SEALANTS AND GASKETS SHALL BE A

A DRAWING PLANS SCHEMATICS AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM INDICATED DUCT

B. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" UNLESS OTHERWISE

E. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH

H. ALL DUCT DIMENSIONS SHOWN ON PLANS ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE

J. ALL SUPPLY AND RETURN DUCTWORK 15 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH A 1/2" ACOUSTICAL

A. SEAL DUCTS FOR DUCT STATIC-PRESSURE, SEAL CLASSES, AND LEAKAGE CLASSES SPECIFIED IN "DUCT SCHEDULE" ARTICLE

A. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," CHAPTER 5, "HANGERS AND SUPPORTS."

SECTION 233713 - DIFFUSERS, REGISTERS, AND GRILLES

1. DATA SHEET: INDICATE MATERIALS OF CONSTRUCTION, FINISH, AND MOUNTING DETAILS; AND PERFORMANCE DATA INCLUDING

2. DIFFUSER, REGISTER, AND GRILLE SCHEDULE: INDICATE DRAWING DESIGNATION, ROOM LOCATION, QUANTITY, MODEL NUMBER,

A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO

A. ALL AIR DISTRIBUTION DEVICES SHALL BE SELECTED IN ACCORDANCE WITH THE METHOD OF MOUNTING, CEILING FINISH, AND COLOR.

OF THE ADJACENT CEILING OR WALL, UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO SCHEDULE ON MECHANICAL PLANS.

B. CEILING-MOUNTED OUTLETS AND INLETS: DRAWINGS INDICATE GENERAL ARRANGEMENT OF DUCTS, FITTINGS, AND ACCESSORIES. AIR

OUTLET AND INLET LOCATIONS HAVE BEEN INDICATED TO ACHIEVE DESIGN REQUIREMENTS FOR AIR VOLUME, NOISE CRITERIA, AIRFLOW

PATTERN, THROW, AND PRESSURE DROP. MAKE FINAL LOCATIONS WHERE INDICATED, AS MUCH AS PRACTICAL. FOR UNITS INSTALLED

IN LAY-IN CEILING PANELS, LOCATE UNITS IN THE CENTER OF PANEL. WHERE ARCHITECTURAL FEATURES OR OTHER ITEMS CONFLICT

DAMPERS, AIR EXTRACTORS, AND FIRE DAMPERS. ALL ADJUSTABLE AIR DISTRIBUTION DEVICES LOCATED WITHIN THREE FEET OF ANY

C. INSTALL DIFFUSERS, REGISTERS, AND GRILLES WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF

A. AFTER INSTALLATION, ADJUST DIFFUSERS, REGISTERS, AND GRILLES TO AIR PATTERNS INDICATED, OR AS DIRECTED, BEFORE STARTING

THE MOUNTING METHOD SHALL BE COMPATIBLE WITH THE CEILING, WALL OR DUCT SURFACE IN WHICH IT MOUNTS. REFER TO THE

ARCHITECTURAL DRAWINGS TO DETERMINE THE MOUNTING METHOD FOR EACH DEVICE, AND SELECT THE COLOR TO MATCH THE COLOR

LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING

EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT

MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL 723;

MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.

ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL

SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1

A. SECTION INCLUDES:

1. CEILING-MOUNTED VENTILATORS.

PART 1 - GENERAL

1.1 SUMMARY

- 1.2 PERFORMANCE REQUIREMENTS
- A. PROJECT ALTITUDE: BASE FAN-PERFORMANCE RATINGS ON SEA LEVEL.
- 1.3 ACTION SUBMITTALS
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, AND FURNISHED SPECIALTIES AND ACCESSORIES. ALSO INCLUDE THE FOLLOWING: 1. CERTIFIED FAN PERFORMANCE CURVES WITH SYSTEM OPERATING CONDITIONS INDICATED.

SECTION 233423 - HVAC POWER VENTILATORS

- 2. CERTIFIED FAN SOUND-POWER RATINGS.
- 3. MOTOR RATINGS AND ELECTRICAL CHARACTERISTICS, PLUS MOTOR AND ELECTRICAL ACCESSORIES. 4. MATERIAL THICKNESS AND FINISHES, INCLUDING COLOR CHARTS.
- 5. DAMPERS, INCLUDING HOUSINGS, LINKAGES, AND OPERATORS
- 6. FAN SPEED CONTROLLERS.
- 1.4 QUALITY ASSURANCE A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
- B. AMCA COMPLIANCE: FANS SHALL HAVE AMCA-CERTIFIED PERFORMANCE RATINGS AND SHALL BEAR THE AMCA-CERTIFIED RATINGS SEAL.
- 1.5 COORDINATION
- A. COORDINATE SIZES AND LOCATIONS OF ROOF CURBS, EQUIPMENT SUPPORTS, AND ROOF PENETRATIONS WITH ACTUAL EQUIPMENT PROVIDED.
- PART 2 PRODUCTS
- 2.1 CEILING-MOUNTED VENTILATORS A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
- 1. BROAN-NUTONE LLC 2. GREENHECK FAN CORPORATION.
- 3. LOREN COOK COMPANY.
- PENNBARRY B. CAPACITIES AND CHARACTERISTICS: AS SCHEDULED ON THE PLANS.
- PART 3 EXECUTION
- 3.1 INSTALLATION
- A. INSTALL POWER VENTILATORS LEVEL AND PLUMB.
- B. CEILING UNITS: SUSPEND UNITS FROM STRUCTURE.
- C. SUPPORT SUSPENDED UNITS FROM STRUCTURE USING THREADED STEEL RODS AND VIBRATION-CONTROL DEVICES.
- D. INSTALL UNITS WITH CLEARANCES FOR SERVICE AND MAINTENANCE.
- 3.2 CONNECTIONS
- A. DRAWINGS INDICATE GENERAL ARRANGEMENT OF DUCTS AND DUCT ACCESSORIES. MAKE FINAL DUCT CONNECTIONS WITH FLEXIBLE CONNECTORS.
- B. INSTALL DUCTS ADJACENT TO POWER VENTILATORS TO ALLOW SERVICE AND MAINTENANCE
- 3.3 FIELD QUALITY CONTROL
- A. PERFORM TESTS AND INSPECTIONS.
- B. TESTS AND INSPECTIONS:
- 1. VERIFY THAT SHIPPING, BLOCKING, AND BRACING ARE REMOVED. 2. VERIFY THAT UNIT IS SECURE ON MOUNTINGS AND SUPPORTING DEVICES AND THAT CONNECTIONS TO DUCTS AND ELECTRICAL
- COMPONENTS ARE COMPLETE. VERIFY THAT PROPER THERMAL-OVERLOAD PROTECTION IS INSTALLED IN MOTORS, STARTERS, AND DISCONNECT SWITCHES
- 3. VERIFY THAT CLEANING AND ADJUSTING ARE COMPLETE. 4. DISCONNECT FAN DRIVE FROM MOTOR, VERIFY PROPER MOTOR ROTATION DIRECTION, AND VERIFY FAN WHEEL FREE ROTATION AND
- SMOOTH BEARING OPERATION.
- 5. ADJUST DAMPER LINKAGES FOR PROPER DAMPER OPERATION. 6. VERIFY LUBRICATION FOR BEARINGS AND OTHER MOVING PARTS.
- 7. REMOVE AND REPLACE MALFUNCTIONING UNITS AND RETEST AS SPECIFIED ABOVE.
- C. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
- D. PREPARE TEST AND INSPECTION REPORTS.

END OF SECTION 233423

SECTION 237413 - PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

PART 1 - GENERAL

- 1.1 SUMMAR
- A. THIS SECTION INCLUDES PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS (ROOFTOP UNITS) WITH THE FOLLOWING COMPONENTS AND ACCESSORIES: 1. DIRECT-EXPANSION COOLING 2. GAS FURNACE.
- 3. ECONOMIZER OUTDOOR- AND RETURN-AIR DAMPER SECTION.
- 4. INTEGRAL, SPACE TEMPERATURE CONTROLS.
- ROOF CURBS
- 1.2 ACTION SUBMITTALS
- A. PRODUCT DATA: INCLUDE MANUFACTURER'S TECHNICAL DATA FOR EACH RTU, INCLUDING RATED CAPACITIES, DIMENSIONS, REQUIRED CLEARANCES, CHARACTERISTICS, FURNISHED SPECIALTIES, AND ACCESSORIES
- 1.3 QUALITY ASSURANCE
- A. ARI COMPLIANCE . COMPLY WITH ARI 210/240 AND ARI 340/360 FOR TESTING AND RATING ENERGY EFFICIENCIES FOR RTUS
- 2. COMPLY WITH ARI 270 FOR TESTING AND RATING SOUND PERFORMANCE FOR RTUS.
- B. ASHRAE COMPLIANCE 1 COMPLY WITH ASHRAF 15 FOR REFRIGERATION SYSTEM SAFETY
- 2. COMPLY WITH ASHRAE 33 FOR METHODS OF TESTING COOLING AND HEATING COILS.
- C. NFPA COMPLIANCE: COMPLY WITH NFPA 90A AND NFPA 90B. D. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- 1.4 WARRANTY

VERIFY AVAILABLE WARRANTIES FOR RTUS AND COMPONENTS AND INSERT NUMBER IN SUBPARAGRAPHS BELOW. PERIODS INDICATED ARE INCLUDED WITH MANUFACTURER'S PUBLISHED DATA AND VARY AMONG MANUFACTURERS AND UNIT SIZES. 1. WARRANTY PERIOD FOR COMPRESSORS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION. 2. WARRANTY PERIOD FOR GAS FURNACE HEAT EXCHANGERS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN FIVE YEARS FROM DATE OF SUBSTANTIAL

- COMPLETION. 3. WARRANTY PERIOD FOR SOLID-STATE IGNITION MODULES: MANUFACTURER'S STANDARD, BUT NOT LESS THAN THREE YEARS FROM DATE OF SUBSTANTIAL
- COMPLETION. 4. WARRANTY PERIOD FOR CONTROL BOARDS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN THREE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
- PART 2 PRODUCTS
- 2.1 MANUFACTURERS A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING
- LENNOX INDUSTRIES INC
- MCQUAY INTERNATIONAL 3. TRANE; AMERICAN STANDARD COMPANIES, INC
- 4. YORK INTERNATIONAL CORPORATION.
- 5. CARRIER UNITED TECHNOLOGIES
- 2.2 CASING
- A. GENERAL FABRICATION REQUIREMENTS FOR CASINGS: FORMED AND REINFORCED DOUBLE-WALL INSULATED PANELS, FABRICATED TO ALLOW REMOVAL FOR ACCESS TO INTERNAL PARTS AND COMPONENTS, WITH JOINTS BETWEEN SECTIONS SEALED B. EXTERIOR CASING MATERIAL: GALVANIZED STEEL WITH FACTORY-PAINTED FINISH, WITH PITCHED ROOF PANELS AND KNOCKOUTS WITH GROMMET SEALS FOR
- ELECTRICAL AND PIPING CONNECTIONS AND LIFTING LUGS. 1. EXTERIOR CASING THICKNESS: 0.052 INCH THICK.
- C. INNER CASING FABRICATION REQUIREMENTS:
- 1. INSIDE CASING: GALVANIZED STEEL, 0.034 INCH THICK.
- D. CASING INSULATION AND ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B. 1. MATERIALS: ASTM C 1071, TYPE I.
- 2. THICKNESS: 1/2 INCH.
- RETAIN THIRD OPTION IN FIRST PARAGRAPH BELOW TO COMPLY WITH LEED PREREQUISITE IEQ 1 OR IF REQUIRED BY PROJECT REQUIREMENTS OR AUTHORITIES HAVING JURISDICTION.
- E. CONDENSATE DRAIN PANS: FORMED SECTIONS OF GALVANIZED-STEEL SHEET, A MINIMUM OF 2 INCHES DEEP. DRAIN CONNECTIONS: THREADED NIPPLI
- RETAIN SUBPARAGRAPH BELOW FOR GALVANIZED-STEEL DRAIN PANS AND DELETE FOR STAINLESS-STEEL DRAIN PANS.
- PAN-TOP SURFACE COATING: CORROSION-RESISTANT COMPOUND.
- 2.3 FANS
- RETAIN ONE OF FIRST TWO PARAGRAPHS BELOW. RETAIN BOTH IF MULTIPLE-TYPE RTUS ARE REQUIRED. IF RETAINING BOTH, INDICATE FAN TYPE IN A SCHEDULE
- A. BELT-DRIVEN SUPPLY-AIR FANS: DOUBLE WIDTH, FORWARD CURVED, CENTRIFUGAL; WITH PERMANENTLY LUBRICATED, SINGLE-SPEED MOTOR INSTALLED ON AN ADJUSTABLE FAN BASE RESILIENTLY MOUNTED IN THE CASING. ALUMINUM OR PAINTED-STEEL WHEELS, AND GALVANIZED- OR PAINTED-STEEL FAN SCROLLS.
- B. CONDENSER-COIL FAN: PROPELLER, MOUNTED ON SHAFT OF PERMANENTLY LUBRICATED MOTOR
- 2.4 COILS
- A. SUPPLY AIR REFRIGERANT COIL 1. ALUMINUM-PLATE FIN AND SEAMLESS INTERNALLY GROOVED COPPER TUBE IN STEEL CASING WITH EQUALIZING-TYPE VERTICAL DISTRIBUTOR. 2. COIL SPLIT: INTERLACED.

- A. EXAMINE AREAS WHERE DIFFUSERS, REGISTERS, AND GRILLES ARE TO BE INSTALLED FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF EQUIPMENT
- B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- A. INSTALL DIFFUSERS, REGISTERS, AND GRILLES LEVEL AND PLUMB, AND IN CONFORMANCE WITH THE MANUFACTURER'S

2.5 REFRIGERANT CIRCUIT COMPONENTS A. COMPRESSOR: HERMETIC, SCROLL, MOUNTED ON VIBRATION ISOLATORS; WITH INTERNAL OVERCURRENT AND HIGH-TEMPERATURE PROTECTION, INTERNAL

PRESSURE RELIEF.

2.6 AIR FILTRATION

A. MINIMUM ARRESTANCE ACCORDING TO ASHRAE 52.1, AND A MINIMUM EFFICIENCY REPORTING VALUE (MERV) ACCORDING TO ASHRAE 52.2. 1. PLEATED: MINIMUM 90 PERCENT ARRESTANCE, AND MERV 7

2.7 GAS FURNACE

A. DESCRIPTION: FACTORY ASSEMBLED, PIPED, AND WIRED; COMPLYING WITH ANSI Z21.47 AND NFPA 54.

1. CSA APPROVAL: DESIGNED AND CERTIFIED BY AND BEARING LABEL OF CSA.

B. BURNERS: STAINLESS STEEL 1. FUEL: NATURAL GAS.

2. IGNITION: ELECTRONICALLY CONTROLLED ELECTRIC SPARK OR HOT-SURFACE IGNITER WITH FLAME SENSOR.

C. HEAT-EXCHANGER AND DRAIN PAN: STAINLESS STEEL. D. VENTING: GRAVITY VENTED

E. SAFETY CONTROLS

1. GAS CONTROL VALVE: TWO STAGE.

2. GAS TRAIN: SINGLE-BODY, REGULATED, REDUNDANT, 24-V AC GAS VALVE ASSEMBLY CONTAINING PILOT SOLENOID VALVE, PILOT FILTER, PRESSURE REGULATOR, PILOT SHUTOFF, AND MANUAL SHUTOFF.

2.8 DAMPERS

A. OUTDOOR-AIR DAMPER: LINKED DAMPER BLADES, FOR 0 TO 25 PERCENT OUTDOOR AIR, WITH MANUAL DAMPER FILTER.

2.9 ELECTRICAL POWER CONNECTION

A. PROVIDE FOR SINGLE CONNECTION OF POWER TO UNIT WITH UNIT-MOUNTED DISCONNECT SWITCH ACCESSIBLE FROM OUTSIDE UNIT AND CONTROL-CIRCUIT TRANSFORMER WITH BUILT-IN OVERCURRENT PROTECTION.

2.10 CONTROLS

CONTROLS IN FIRST PARAGRAPH AND SUBPARAGRAPHS BELOW CONTAIN STANDARD FEATURES AVAILABLE ON MOST RTUS. INCLUDE THOSE REQUIRED FOR PROJECT. VERIFY CONTROL FEATURES WITH MANUFACTURER.

A. BASIC UNIT CONTROLS

- 1. CONTROL-VOLTAGE TRANSFORMER 2. WALL-MOUNTED THERMOSTAT OR SENSOR WITH THE FOLLOWING FEATURES:
- a. HEAT-COOL-OFF SWITCH. b. FAN ON-AUTO SWITCH.
- c. FAN-SPEED SWITCH.
- d. AUTOMATIC CHANGEOVER
- e. ADJUSTABLE DEADBAND. f. EXPOSED SET POINT.
- g. EXPOSED INDICATION.
- h. DEGREE F INDICATION. i. UNOCCUPIED-PERIOD-OVERRIDE PUSH BUTTON.
- 3. GAS FURNACE OPERATION
- a. OCCUPIED PERIODS: STAGE BURNER TO MAINTAIN ROOM TEMPERATURE. b. UNOCCUPIED PERIODS: CYCLE BURNER TO MAINTAIN SETBACK TEMPERATURE.
- 4. ECONOMIZER OUTDOOR-AIR DAMPER OPERATION:
- a. OCCUPIED PERIODS: OPEN TO 10 PERCENT FIXED MINIMUM INTAKE, AND MAXIMUM 100 PERCENT OF THE FAN CAPACITY TO COMPLY WITH ASHRAE CYCLE II. CONTROLLER SHALL PERMIT AIR-SIDE ECONOMIZER OPERATION WHEN OUTDOOR AIR IS LESS THAN 60 DEG F. USE OUTDOOR-AIR ENTHALPY TO ADJUST MIXING DAMPERS. DURING ECONOMIZER CYCLE OPERATION, LOCK OUT COOLING. b. UNOCCUPIED PERIODS: CLOSE OUTDOOR-AIR DAMPER AND OPEN RETURN-AIR DAMPER.

2.11 ACCESSORIES

A. LOW-AMBIENT KIT USING STAGED CONDENSER FANS FOR OPERATION DOWN TO 35 DEG F

B. COIL GUARDS OF PAINTED, GALVANIZED-STEEL WIRE

2.12 ROOF CURBS

A. MATERIALS: GALVANIZED STEEL WITH CORROSION-PROTECTION COATING, WATERTIGHT GASKETS, AND FACTORY-INSTALLED WOOD NAILER; COMPLYING WITH NRCA STANDARDS

B. CURB HEIGHT: 14 INCHES

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER

CONDITIONS AFFECTING PERFORMANCE OF RTUS.

B. EXAMINE ROUGHING-IN FOR RTUS TO VERIFY ACTUAL LOCATIONS OF PIPING AND DUCT CONNECTIONS BEFORE EQUIPMENT INSTALLATION.

C. EXAMINE ROOFS FOR SUITABLE CONDITIONS WHERE RTUS WILL BE INSTALLED. D. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION

A. ROOF CURB: INSTALL ON ROOF STRUCTURE OR CONCRETE BASE, LEVEL AND SECURE. INSTALL RTUS ON CURBS AND COORDINATE ROOF PENETRATIONS AND FLASHING WITH ROOF CONSTRUCTION. SECURE RTUS TO UPPER CURB RAIL, AND SECURE CURB BASE TO ROOF FRAMING OR CONCRETE BASE WITH ANCHOR BOLTS.

3.3 CONNECTIONS

A. INSTALL CONDENSATE DRAIN, MINIMUM CONNECTION SIZE, WITH TRAP AND INDIRECT CONNECTION TO NEAREST ROOF DRAIN OR AREA DRAIN.

B. INSTALL PIPING ADJACENT TO RTUS TO ALLOW SERVICE AND MAINTENANCE.

3.4 FIELD QUALITY CONTROL

RETAIN PARAGRAPH BELOW TO REQUIRE CONTRACTOR TO PERFORM TESTS AND INSPECTIONS

A. PERFORM TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.

RETAIN FIRST PARAGRAPH AND SUBPARAGRAPHS BELOW TO DESCRIBE TESTS AND INSPECTIONS TO BE PERFORMED.

B. TESTS AND INSPECTIONS

1. AFTER INSTALLING RTUS AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST UNITS FOR COMPLIANCE WITH REQUIREMENTS 2. INSPECT FOR AND REMOVE SHIPPING BOLTS, BLOCKS, AND TIE-DOWN STRAPS

- 3. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATION.
- 4. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT C. REMOVE AND REPLACE MALFUNCTIONING UNITS AND RETEST AS SPECIFIED ABOVE.

END OF SECTION 237413

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architecture/interiors

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A DEVELOPMENT BY:

Hall Equities Group

7401 ALCOA RD **BRYANT, AR 72022**

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Sheet Title **SPECIFICATIONS - HVAC**

Sheet No. Keleased for Constructio Not Released for Construction

4360 Chamblee Dunwoody Road Suite 210 Atlanta, GA 30341 GEI #17133 P (770) 451-6757

F (770) 451-6761

RETAIN SUBPARAGRAPH BELOW FOR RTUS WITH GAS-FIRED HEATING

4360 Chamblee Dunwoody Road Suite 210 Atlanta, GA 30341 GEI #17133 P (770) 451-6757 F (770) 451-6761

- BID/ROUGH-IN.
- ALL SERVICE DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED.

IYPE	SYMBOL	MANUFACT./CAT. #	DESCRIPTION	MOUNTING TYPE	LA
А		DAY-BRITE LIGHTING T-2-32-UNV	4' 2- LAMP STRIP SINGLE END WIRED	CEILING MOUNTED	LED
Д1		DAY-BRITE LIGHTING TIK-5-3-32-UNV/ (2) IK-BF	8' INDUSTRIAL WITH CROSS BAFFLE	CABLE MOUNTED	LED
A1.1		DAY-BRITE TIK-5-3-32-UNV/ (1) IK-BF	4' INDUSTRIAL WITH CROSS BAFFLE	CABLE MOUNTED	LED
А2		DAY-BRITE LIGHTING TT-2-32-UNV	8' 2-LAMP STRIP SINGLE END WIRED	CABLE MOUNTED	LED
A3	[]	DAY-BRITE LIGHTING TT-2-32-UNV	8' 2-LAMP STRIP SINGLE END WIRED	CEILING MOUNTED	LED
в		SENNCO SOLUTION 9-0650-1000-02-00	DUMMY DOME DROP CAMERA	PENDANT MOUNTED	-
E	(SP)		SPEAKER		-
F	\bigotimes	EXITRONIX APXTR	UNIVERSAL EXIT LED RED	SURFACE MOUNTED	LED
FL		LOZIER QUICK CONNECT LIGHTS LKQC-3-LED4000	3' OR 4' UNDER SHELF LIGHTING REFER TO PLAN	MAGNET MOUNTED	LED
G	<u></u>	SURE-LITE APEL	DUAL HEAD EMERGENCY W/ BATTERY PACK	CEILING MOUNTED (HUNG) SEE DETAIL	LED
1	\bigcirc	CON-TECH LIGHTING RL38- CTR3802-CLR	6" INCANDESCENT DOWNLIGHT SPECULATOR & TRIM: CLEAR	RECESSED FIXTURE	שדו
J		EXITRONIX LL12-54-0-W/ T1212W	DUAL HEAD REMOTE W/ BATTERY	SURFACE MOUNTED	-
L	8	COOPER XTOR2B-W	EXTERIOR WALL PACK	SURFACE MOUNTED	LED
LB		MDI WORLDWIDE X-61964BRK-6LM70	4' FIXTURE LIGHTING IN STYLE SECTION	CLIP MOUNTED	LED
LT-4		HOUSING: JUNO T4WH LAMP:PHILLIPS I7PAR38XS40940/R534WH	4' TRACK	THREADED ROD PAINTED P-1	LED
LT-8		, HOUSING: JUNO T8WH LAMP:PHILLIPS I7PAR38XS40940/R534WH	8' TRACK	THREADED ROD PAINTED P-1	LED
Μ	\bigcirc	EELP WP29-Q-46L-QT-50K	EXTERIOR SCONCE	SURFACE MOUNTED	LED
N	0	COOPER PR85-30-D010-MW/ PR8M34-MD-MW	UNDER CANOPY LIGHT	SURFACE MOUNTED	LED
	(3)		OCCUPANCY SENSOR	CEILING, WALL	

NOTE:

LIGHT FIXTURES WILL BE PROCURED THROUGH A NATIONAL LIGHTING PROGRAM WITH VILLA LIGHTING. VILLA-LIGHTING CORPORATE HAS NEGOTIAT DISCOUNTED, BULK PRICING FOR BENEFIT OF ITSM LANDLORD BUILT PROJECTS NATIONWIDE. PRODUCT WILL BE STOCKED AT VILLA LIGHTING'S DISTRIBUTION CENTER IN ST. LOUIS, MO, AND CAN SHIP WITHIN 48 HOURS OF RELEASE. PLEASE ALLOW A MAXIUMUM OF 4-5 DAYS OF TRAVEL AFTER RELEASE. CONTACT DEREK VICKROY AT (314) 633-0564 OR DEREK .VICKROY@VILLALIGHTING.COM

VERIFY EXACT LOCATION, MOUNTING AND FINISH REQUIREMENTS OF ALL LIGHTING FIXTURES WITH ARCH AND TENANT IMPROVEMENT DWGS PRIOR TO BID/ROUGH-IN. VERIFY LIGHTING FIXTURE SPECIFICATIONS WITH OWNER AND TENANT PRIOR TO ORDERING FIXTURES AND ACCESSORIES.

2 LIGHTING FIXTURE SCHEDUL	
----------------------------	--

TAG	CON-TECH CURRENT				
TC-0.5 TC-1 TC-2 TC-3 TC-4 TC-5 TC-6 TC-7 TC-8 TC-9 TC-10 TC-12 TC-14	TCLCB-0.5A TCLCB-1A TCLCB-2A TCLCB-3A TCLCB-4A TCLCB-5A TCLCB-6A TCLCB-7A TCLCB-7A TCLCB-8A TCLCB-9A TCLCB-10A TCLCB-12A TCLCB-14A	60W 120W 240W 360W 480W 600W 720W 840W 960W 1,080W 1,200W 1,440W 1,680W	0.5A 1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 12A 14A	CONTRACTOR TO FURNISH AND INSTALL CURRENT LIMITERS TO LIMIT THE WATTAGE AVAILABLE FOR THE TRACK. CONTRACTOR TO UTILIZE JUNO TCLFM11 WH (TITLE 24 COMPLIANT-CALIFORNIA) CURRENT LIMITING DEVICE OR EQUIVALENT.	

ALL TRACK LIGHTING TO BE MOUNTED PER SHEET A2.0

INSTALL UNISTRUT BETWEEN JOISTS	
B.O. RECEPTACLE	
3 RECEPTACLE DTL.	
INSTALL UNISTRUT BETWEEN JOISTS @ TOP CHORD AS REQ.	
U'-O" AFF. B.O. FIXTURE	
4 EMERGENCY LIGHT DTL.	5 TOILET

MP(S)	VOLTS	WATTS	REMARKS
0 T8	277	34	
0 T8	277	1Ø2	A1/NL SIM SEE ELEC. PLANS FOR WIRING
0 T8	277	51	A1/NL SIM SEE ELEC. PLANS FOR WIRING
0 T8	277	68	A2/NL SIM- SEE ELEC. PLANS FOR WIRING
) †8	דד2	68	A2/NL SIM- SEE ELEC. PLANS FOR WIRING
	-	-	PROVIDED BY FB & INSTALLED BY T.G.C. T.G.C. TO PROVIDE & INSTALL BATTERIES
	-	-	PROVIDED & INSTALLED BY F.B.
)	דד2	2	
)	24	3/FT	PROVIDED BY FB & INSTALLED BY T.G.C.
)	דד2	.78	SEE DTL. 4/A2.0 FOR MOUNTING
PAR 38 LED	12Ø	25	
	12	12	
)	דד2	18	
)	12Ø		PROVIDED BY F.B. & INSTALLED BY T.G.C.
)	12Ø	Ц	B.O. TRACK LIGHTS @ 12'-4" A.F.F. U.O.N.
)	12Ø	Г	B.O. TRACK LIGHTS @ 12'-4" A.F.F. U.O.N.
)	דד2	46	
)	דד2	28.5	
TED			

NOTE: LIGHTING IN THE AREA AND CONNECTED SWITCHES. THE BRANCH CIRCUIT THAT SHALL BE CLEARLY IDENTIFIED AT THE SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES. THE BRANCH CIRCUIT THAT FEEDS UNIT EQUIPMENT SHALL BE CLEARLY IDENTIFIED AT TH DISTRIBUTION PANEL. IN A SEPARATE AND UNINTERRUPTED AREA SUPPLIED BY A MINIMUM OF THREE NORMAL LIGHTING CIRCUITS, A SEPARATE BRANCH CIRCUIT FOR UNIT EQUIPMENT SHALL BE FROM THE SAME PANELBOARD AS THAT OF THE NORMAL LIGHTING CIRCUITS AND PROVIDED WITH A LOCK-ON FEATURE.

R	A	N	D	A	L	L
P	A r c	U h	L i t	S e	0 c t	N s
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	t e-mail	F 85-A Mi Roswel 770.650. architect	loswell ill Street II, Geor 7558 f s@rai	Mill t Suite 2 gia 300 770.650 ndallpat	200 75).7559 Ilson.col	n
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	DEM	IOLITION NOTES
	A. EX EXI OP	CEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED, ISTING WORK IS TO REMAIN AND BE MAINTAINED ERATIONAL.
	B. CO PA RE ALT OR OW	NTRACTOR SHALL DO ANY AND ALL CUTTING AND TCHING REQUIRED FOR THIS SCOPE OF WORK, STORING ALL SURFACES TO THEIR ORIGINAL CONDITION. TERATIONS TO ANY STRUCTURAL MEMBER, EITHER STEEL CONCRETE, SHALL REQUIRE THE APPROVAL OF THE /NER.
	C. ALL EX/ CO OF	. DIMENSIONS INDICATED ON PLANS ARE NOMINAL. ACT DIMENSIONS SHALL BE VERIFIED BY THE NTRACTOR. NO ALLOWANCE SHALL BE MADE FOR LACK KNOWLEDGE OF EXISTING CONDITIONS.
	D. WH DIS EQ SH,	IERE PIPES, CONTROL DEVICES AND WIRING ARE SCONNECTED FOR THE REMOVAL OR RELOCATION OF UIPMENT OR BECAUSE OF BUILDING ALTERATIONS, THEY ALL BE RECONNECTED AND MADE OPERATIONAL.
	E. CO NO EQ SU EXI BR	INTRACTOR SHALL REMOVE ALL SUPPORTING FACILITIES LONGER NEEDED OR MADE OBSOLETE BY THE NEW UIPMENT AND MATERIALS FURNISHED IN THIS CONTRACT. CH REMOVAL INCLUDES, BUT IS NOT LIMITED TO, POSED CONDUIT RUNS WITH WIRING AND SUPPORT ACKETS, ABANDONED PIPING SUPPORT FRAMES OR SES, SWITCHES AND CONTROLS.
	F. EXI EXI CO AS: TAF CL/ CO	ISTING CONDITIONS: VISIT SITE AND CAREFULLY EXAMINE ISTING CONDITIONS BEFORE SUBMITTING BID. THE NTRACTOR, IN UNDERTAKING THIS CONTRACT, IS SUMED TO HAVE VISITED THE PREMISES AND TO HAVE KEN INTO CONSIDERATION ALL CONDITIONS WHICH MIGHT FECT HIS WORK. NO CONSIDERATION WILL BE GIVEN ANY AIMS BASED ON LACK OF KNOWLEDGE OF EXISTING NDITIONS.
	G. The GE ADI FR(NEI DEI SUI	E CONTRACT DOCUMENTS INDICATE THE EXTENT AND NERAL ARRANGEMENTS OF THE MODIFICATIONS AND DITIONS TO THE EXISTING SYSTEM. IF ANY DEPARTURES OM THE CONTRACT DOCUMENTS ARE DEEMED CESSARY BY THE CONTRACTOR, DETAILS OF SUCH PARTURES AND REASONS THEREFORE SHALL BE BMITTED IN WRITING FOR APPROVAL.
	H. WH SEI TIM INT ARI IF F SHI MA	IERE WORK MAKES TEMPORARY SHUTDOWNS OF RVICES UNAVOIDABLE, SHUTDOWN AT NIGHT OR AT SUCH IES AS APPROVED BY OWNER WHICH WILL CAUSE LEAST 'ERFERENCE WITH ESTABLISHED OPERATING ROUTINE. RANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME REQUIRED, TO ASSURE THAT SERVICES WILL BE UTDOWN ONLY DURING TIME ACTUALLY REQUIRED TO KE NECESSARY CONNECTION TO EXISTING WORK.
I	I. REF DAI INS	PLACE CONDUIT AND CONDUCTORS REMOVED OR MAGED DURING THE PROGRESS OF THE WORK WITH NEW STALLATION EQUIVALENT TO THE ORIGINAL.
	J. UNI EQ BE(BE	LESS OTHERWISE NOTED, ALL MATERIALS AND UIPMENT SHOWN OR SPECIFIED TO BE REMOVED SHALL COME THE PROPERTY OF THE CONTRACTOR AND SHALL REMOVED FROM THE PROJECT SITE.
	K. DE INC	MOLITION OF ALL ELECTRICAL EQUIPMENT SHALL BE CLUDED IN BID PRICE.
	L. NO	EXISTING DEVICE TO REMAIN SHALL BE LEFT WITHOUT POWER.
	ELE(CTRICAL ABBREVIATIONS
	A AFF	AMPERE ABOVE FINISHED FLOOR
	AIC	AMPERE INTERRUPTING CAPACITY
	AWG . BC	AMERICAN WIRE GUAGE
	BKR	BREAKER
	СКТ	CIRCUIT
	DF EX	EXISTING
	FACP	FIRE ALARM CONTROL PANEL
	GFI G OR GI	GROUND FAULT INTERRUPTER
	HP	HORSE POWER
	J OR JB	JUNCTION BOX
	MCB .	MAIN CIRCUIT BREAKER
	MCM	THOUSAND CIRCULAR MILS MAIN LUGS ONLY
	NL	NIGHT LIGHT
	NTS MH	NOT TO SCALE MOUNTING HEIGHT
	RT	RAINTIGHT
	ST	
	TVSS .	TRANSIENT VOLTAGE SURGE SUPP.
	UL	
	V	VOLTS
	W	WEATHERPROOF
	ΥΡ	WYE
TAMPER A CONNECT	AND FLO	W SWITCH DIALER 4#12 IN STL.
		"C. TO TELEPHONE CAB. FOR DUAL TELEPHONE CKTS. (CKTS. BY OWNER)
		120V. CKT FROM 20A/1P BKR (WITH LOCK "ON" DEVICE)
		IN HOUSE PANEL EXTEND 3/4"EC W/PULLWIRE TO PIV LOCATIONS. COORDINATE EXACT LOCATION AND QUANTITY WITH CIVIL AND FIRE PROTECTION DRAWINGS PRIOR TO BID/ROUGH-IN.
		TELEPHONE DIALER, PER NFPA-72, @ 5'-0" A.F.F. SILENT KNIGHT #5104
		SPRINKLER STSTEM RISER
S	PRIN	IKLER RISER DETAIL

A. <u>SCOPE OF WORK</u>

- 1. FURNISH ALL LABOR AND MATERIAL TO COMPLETE ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS
- 2. THE LISTING OF ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL PROVIDE AND INSTALL, UNLESS NOTED TO BE SUPPLIED BY OTHERS, EACH ITEM LISTED OF QUALITY OR SUBJECT TO QUALIFICATION NOTED. EACH OPERATION SHALL BE PERFORMED ACCORDING TO STANDARD PRACTICE, MANUFACTURER'S INSTRUCTIONS AND CONDITIONS STATED, PROVIDING THEREFORE, ALL NECESSARY LABOR, EQUIPMENT AND INCIDENTALS.
- 3. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE HIS WORK TO CONFORM TO THE PROGRESS OF THE OTHER TRADES AND CONTRACTORS EMPLOYED ON THIS PROJECT. THE PRINCIPAL ITEMS OF WORK INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
- A. PROVIDE ELECTRICAL SERVICE INCLUDING CONDUITS, CABLES, TERMINATIONS, METERING EQUIPMENT, ETC. IN ACCORDANCE WITH UTILITY REQUIREMENTS AND DRAWINGS
- B. PROVIDE LIGHTING FIXTURE AS SHOWN ON DRAWINGS. THIS SHALL INCLUDE ALL ASSOCIATED LAMPS, BOXES, SWITCHES, CONTRACTORS, AND BRANCH CIRCUIT WIRING AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- C. PROVIDE DEVICES (RECEPTACLES, SWITCHES, ETC.) AS SHOWN ON DRAWINGS. THIS SHALL INCLUDE ALL ASSOCIATED BRANCH CIRCU WIRING AND MATERIAL REQUIRED FOR A COMPLETE INSTALLATION
- D. POWER FEEDERS TO HYAC EQUIPMENT INCLUDING RTU'S, EXHAUST FANS, INCLUDING DISCONNECT SWITCHES, CONTROL DEVICES, STARTERS FOR MOTORS NOT PROVIDED BY OTHERS. (CONSULT HVAC CONTRACTOR FOR PHASE AND VOLTAGE OF EQUIPMENT ANI ACTUAL NAMEPLATE RATINGS FOR FEEDER MINIMUM CONDUCTOR AMPACITIES (MCA) AND MAXIMUM OVERCURRENT PROTECTION DEVICES (MOCPD) INFORMATION PRIOR TO INSTALLATION AND PRIOR TO PURCHASING ELECTRICAL EQUIPMENT.
- E. PROVIDE POWER DISTRIBUTION EQUIPMENT (PANELBOARDS, DISCONNECT SWITCH35, CONTRACTORS, MOTOR STARTERS, ENCLOSED CIRCUIT BREAKERS, ETC.) AS SHOWN ON DRAWINGS OF AS REQUIRED FOR THIS PROJECT. THIS SHALL INCLUDE ALL WIRIN AND ASSOCIATED MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.

F. NOT USED.

- G. PROVIDE TESTING OF ALL ELECTRICAL EQUIPMENT.
- H. PROVIDE TIMERS, PHOTOCELLS, AND CONTRACTORS FOR CONTROL OF EXTERIOR LIGHTING AND HVAC EQUIPMENT. I. PROVIDE BACKBOXES, PULLSTATIONS, AND CONDUIT TO ABOVE ACCESSIBLE CEILING FOR ALL VOICE AND COMMUNICATIONS OUTLETS.
- J. PROVIDE CONDUIT, JUNCTION BOXES, 115 VOLT FEEDERS, BACKBOXES, ETC. AS REQUIRED FOR SECURITY SYSTEM CAMERAS ELECTRICAL DOOR STRIKES, ALARMS, REQUEST TO EXIT, MOTION SENSORS, CARD READERS, KEYPADS AND MAIN SECURITY PANEL AS PER DRAWINGS OR AS DIRECTED BY OWNER OR ARCHITECT. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BIDS.
- K. PROVIDE EMERGENCY LIGHTING, BATTERY UNITES, REMOTE HEADS EXIT LIGHTS AND ALL ASSOCIATED WIRING, CONDUIT, JUNCTION BOXES, CONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.

A. <u>INSTALLATION</u>

- I. THIS CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE PRESE CONDITIONS AND VERIFY EXACT LOCATION OF EQUIPMENT AND LOC, REGULATIONS PRIOR TO SUBMITTING BID.
- 2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AN PATCHING OF EXISTING WALLS CEILINGS AND FLOOR SLABS NECESSARY FOR THE COMPLETION OF HIS WORK.
- 3. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WORK AND MATERIAL SHOWN SHALL BE PERFORMED, FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 4. THE COMPLETE INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND CITY CODES, RULES, REGULATIONS AND ORDINANCE. ALSO MAKE APPLICATION FOR AN NO PAY ALL FEES IN CONNECTION WITH ANY PERMITS, TESTS AND INSPECTIONS THAT MAY BE REQUIRED.
- 5. GUARANTEE ALL WORKMANSHIP, MATERIAL AND PERFORMANCE FOR PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.
- 6. THE EXACT MOUNTING LOCATIONS OF APPARATUS, DEVICES, EQUIPMENT AND CONDUITS SHALL BE ASCERTAINED FROM OWNER OF THEIR REPRESENTATIVE IN THE FIELD, AND THE WORK SHALL BE LAIL OUT ACCORDINGLY. SHOULD THE CONTRACTOR FAIL TO ASCERTAIN SUCH LOCATIONS, THE WORK SHALL BE CHANGED AT THIS OWN EXPENSE WHEN SO ORDERED BY OWNER, THE OWNER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CABLE, CONDUIT AND EQUIPMENT INSTALLED BY THIS CONTRACTOR UP TO THE TIME OF INSTALLATION, WITHOUT ADDITIONAL COST.
- 7. ALL CONDUCTORS SHALL BE COPPER, THHN INSULATION UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE IN EMT OR MC CABLE RUN CONCEALED IN FINISHED AREAS AND NOT SUBJECT TO PHYSICAL DAMAGE. RUN EMT IN UNFINISHED CEILING AREAS.
- 8. RUN ALL CONDUIT CONCEALED IN BLOCK WALLS AND RECESS ALL DEVICES IN BIRCH WALLS TO THE EXTENT POSSIBLE AND/OR PRACTICAL.
- B. DRAWINGS AND SPECIFICATIONS
 - 1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND PIPING. DIMENSIONS GIVEN ON THE PLANS SHALL BE VERIFIED IN THE FIELD. DRAWINGS MAY NOT BE SCALED TO OBTAIN EXACT DIMENSIONS.
 - 2. THE EXACT LOCATIONS OF APPARATUS, FIXTURES, EQUIPMENT AND CONDUITS SHALL BE ASCERTAINED FROM THE OWNER OR HIS REPRESENTATIVE IN THE FIELD, AND THE WORK SHALL BE LAID OUT ACCORDINGLY, SHOULD THE CONTRACTOR FAIL TO ASCERTAIN SUCH LOCATIONS, THE WORK SHALL BE CHANGED AT HIS OWN EXPENSE WHEN SO ORDERED BY THE OWNER.
 - 3. THIS CONTRACTOR SHALL FURNISH SUCH LABOR AND MATERIALS AS HERE-IN-AFTER SPECIFIED AND AS REQUIRED TO COMPLETE ALL ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT AND OWNER'S EQUIPMENT AS SHOWN AND/OR SPECIFIED.

ELECTRICAL SPECIFICATIONS

D.	VISITING TO THE SITE	L. <u>Conduit and Cables</u>	R. MOTORS AND WIRING	
	1. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK, AND THE SUBMISSION OF HIS PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE, NO ADDITIONAL PAYMENT WILL BE	1. ALL CONDUIT SHALL BE RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.	 FURNIGH AND INSTALL DISCONNECT SWITCHES (EXCEPT WHERE SPECIFICALLY SPECIFIED BY OTHERS) AND RUN POWER CIRCUITS FROM THE POWER PANEL THROUGH DISCONNECT SWITCHES & CONTROL DEVICES TO MOTOR TERMINALS. 	
=	MADE ON CLAIMS THAT ARISE FROM LACK OF SUCH KNOWLEDGE OF EXISTING CONDITIONS. MATERIALS AND WORKMANSHIP	2. CONDUIT AND EMT SHALL BE DELIVERED TO THE BUILDING IN 10 FOOT LENGTHS AND EACH LENGTH SHALL HAVE THE APPROVED UNDERWRITER'S LABORATORIES LABEL.	2. PROVIDE ALL STARTERS, CONTROLS AND PUSH BUTTON STATIONS ETC. NOT SUPPLIED BY MECHANICAL OR OTHER CONTRACTORS REQUIRED FOR THE PROPER AND INTENDED OPERATION OF MOTORS AND OR	
<u> </u>	1. ALL WORK SHALL BE INSTALLED IN PRACTICAL AND WORKMANLIKE MANNER BY COMPETENT WORKMEN, SKILLED IN THEIR BRANCH OF THE TRADE.	3. CONDUIT SHALL BE RUN CONCEALED IN ALL FINISHED AREAS OF THE BUILDING AND MAY BE RUN EXPOSED IN UNFINISHED AREAS AT CEILING OF JOIST LEVEL. RUN CONCEALED IN BLOCK WALLS THE EXTENT THAT IS PRACTICAL.	MOTORIZED EQUIPMENT SUPPLIED BY OTHERS. A. THE ABOVE ELECTRICAL EQUIPMENT SHALL BE MOUNTED SECURELY TO WALL OR FRAMES AND THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY BRACKETS,	
	2. UNLESS SPECIFICALLY SPECIFIED OR INDICATED ONT HE DRAWINGS TO THE CONTRARY, ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BE THE BEST OF THEIR SEVERAL KINDS.	4. EMT CONNECTORS AND COUPLERS SHALL BE RAIN TIGHT COMPRESSION TYPE (OR SET-SCREW WHERE ACCEPTABLE TO OWNER AND LOCAL CODES) MADE OF STEEL AS MANUFACTURED BY THOMAS & BETTS, STEEL CITY OF APPLETON, BENDS AND OFFSETS SHALL BE	STRUCTURAL PIECES, EXPANSION BOLTS AND OTHER ACCESSORIES REQUIRED. B. WOODEN PLUGS SHALL NOT BE PERMITTED FOR ANCHORING.	
	3. ALL MATERIALS SHALL MEET OR EXCEED STANDARDS SPECIFIED BY UL, NEMA, ANSI AND IEEE WHEREVER SUCH STANDARDS HAVE BEEN ESTABLISHED.	MADE WITH A HICKEY OR POWER BENDER WITHOUT KINKING OR DESTROYING THE SMOOTH BORE OF THE CONDUIT. PARALLELED CONDUITS SHALL RUN STRAIGHT AND TRUE WITH OFFSETS UNIFORM AND SYMMETRICAL, CONDUIT TERMINALS AT BOXES AND CABINETS SHALL	C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LUBRICATION OF ALL MOTORS.	RANDAL
	4. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS ASSOCIATED WITH HIS WORK AND LEAVE THE WORK AREA CLEAN AT THE END OF EACH WORK DAY.	BE RIGIDLY SECURED WITH LOCKNUTS AND BUSHINGS AS REQUIRED BY THE NATION ELECTRICAL CODE. INSULATED BUSHINGS SHALL BE USED ON ALL CONDUIT 1-1/4" TRADE SIZE AND LARGER.	3. REFER ALSO TO MECHANICAL SPECIFICATIONS FOR WORK BY MECHANICAL CONTRACTOR WHICH MAY RESULT IN ADDITIONAL WORK FOR THIS ELECTRICAL CONTRACTOR.	
F	5. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.	5. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AT NO MORE THAN 10 FT. CENTERS, AND HANGER, SUPPORTS, OR FASTENINGS SHALL BE PROVIDED AT EACH CONDUIT ELBOW AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE GUIDED FROM THE CENTRIC OR CENTRO ON HUDER	 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AN CONNECTIONS TO ALL HVAC EQUIPMENT. 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS TO ALL HVAC FOURMENT NOT PROVIDED BY 	architect
	1. "INSTALL" SHALL MEAN TO PLACE, FIX IN POSITION, SECURE, ANCHOR,	6. HORIZONTAL AND VERTICAL CONDUIT RUNG SHALL BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS, OR THEIR APPROVED METAL DEVICE	6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL	
	ETC. INCLUDING NECESSARY APPURTENANCES AND LABOR SO THAT THE EQUIPMENT OR INSTALLATION WILL FUNCTION AS SPECIFIED AND INTENDED.	WITH SUITABLE BOLTS, OR BEAM CLAMPS FOR MOUNTING TO BUILDING STRUCTURE OR SPECIAL BRACKETS, CONDUIT SHALL BE SUPPORTED FROM STRUCTURAL STEEL OR JOIST AND INDEPENDENT OF OTHER PIPING. DO NOT SUPPORT CONDUIT FROM METAL ROOF DECK, OR ANY	EQUIPMENT (STARTERS, CONTRACTORS ETC.) NOT SUPPLIED BY HVAC CONTRACTOR BUT REQUIRED FOR THE INTENDED OPERATION OF HVAC EQUIPMENT	ARKADEAS
	2. "FURNIGH" SHALL MEAN TO PURCHASE AND SUPPLY EQUIPMENT OR COMPONENTS.	OTHER SUPPORT DEVICE OF ANOTHER TRADE. 7. NON-METALLIC SHEATHED CABLE (ROMEX) OR AC CABLE SHALL NOT	7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT NOT SUPPLIED BY OTHERS.	PROFESSIONAL ENGINEER 3 13-18
	 3. "PROVIDE" SHALL MEAN TO "FURNISH AND INSTALL". 4. "OR APPROVED EQUAL" AND "OR EQUAL" SHALL MEAN EQUAL IN TYPE DESIGN QUALITY FTC. AS DETERMINED BY THE QUINER AND 	BE USED. TYPE MC CABLE MAY BE USED ONLY WHEN CONCEALED IN FINISHED WALLS OR ABOVE CEILING AND WHEN NOT SUBJECT TO PHYSICAL DAMAGE UNLESS ITS USE IS NOT APPROVED ABBEY OWNER OR LOCAL CODES.	8. REFER TO MECHANICAL SPECIFICATION AND DRAWINGS FOR ADDITIONAL ELECTRICAL WORK AND COORDINATION. S. <u>FUSES</u>	No. 7200 K- 4
G.	APPROVED BY THE ENGINEER. CODES, PERMITS, AND INSPECTIONS	8. ONLY SHORT RUNS OF FLEXIBLE METAL CONDUIT NOT OVER 30" IN LENGTH SHALL BE USED FOR TERMINAL CONNECTIONS TO MOTORS AND OTHER VIBRATING EQUIPMENT, AND ALSO FOR ELECTRICAL	1. REPLACE ALL FUSES BLOWN DURING CONSTRUCTION AND TESTING AN PROVIDE A COMPLETE ST OF FUSES IN ALL FUSE HOLDERS, SWITCHES, PANELS AND ALL OTHER DEVICES REQUIRING FUSES.	Roswell Mill
	1. INSTALL ALL WORK IN FULL ACCORDANCE WITH CODES, RULES, AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE	WITH RIGID CONDUIT. FLEXIBLE CONDUIT EXPOSED TO WEATHER SHALL BE "SEALTITE" OR EQUAL.	2. FUSES SHALL BE CURRENT LIMITING, DUAL ELEMENT TIME DELAY TYPE PROVIDE OWNER WITH ONE SET OF SPARE FUSES FOR EACH FUSED SWITCH.	85-A Mill Street Suite 200 Roswell, Georgia 30075 t 770 650 7558 f 770 650 7559
	PREMISES. THIS SHALL INCLUDE ALL DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODES, AS INTERPRETED BY THE LOCAL INSPECTION DIVISION. ALL THESE CODES, RULES AND REGULATIONS ARE HEREBY	M. <u>GROUNDING</u>	T. <u>GUARANTEE</u> 1. IN ADDITION TO WARRANTIES OF FOURPMENT BY MANUFACTURED OF	e-mail architects@randallpaulson.com
	INCORPORATED INTO THIS SPECIFICATION. 2. COMPLY WITH SPECIFICATION REQUIREMENTS WHICH ARE IN EXCESS OF CODE REQUIREMENTS AND NOT IN CONFLICT WITH SAME.	1. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES A GOOD MECHANICAL AND ELECTRICAL CONNECTION	SAME, THIS CONTRACTOR SHALL ALSO GUARANTEE EQUIPMENT PROVIDED BY HIM AND SHALL BEHELD FOR A PERIOD OF ONE (1) YEAR TO MAKE GOOD ANY DEFECTS IN MATERIALS AND WORKMANSHIP OCCURRING DURING THIS PERIOD. AT HIS SOLE EXPENSE. THE ONE (1)	architecture/interior
	3. THE CONTRACTOR SHALL SECURE ALL PERMITS AND CERTIFICATED OR INSPECTION INCIDENTAL TO HIS WORK, REQUIRED BY THE FOREGOING AUTHORITIES. ALL SUCH CERTIFICATES SHALL BE DELIVERED TO THE	SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS. 2. ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, STATE AND NEC CODES AND REGULATIONS.	YEAR PERIOD SHALL START FROM DATE OF FINAL ACCEPTANCE BY OWNER.	These plans and specifications are the property of Randall-Paulson Architec Incorporated. These documents may not be copied, reproduced, used or implemented in any way, in part or in whole, without the written consent o Randall-Paulson Architects, Incorporated. All common law rights of copyright
Ц	OWNER IN DUPLICATE, BEFORE FINAL PAYMENT ON CONTRACT WILL BE ALLOWED. THE CONTRACTOR SHALL PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREWITH.	3. PANELS, CONDUIT SYSTEMS MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE PART OF OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL CODES.	I. KEEP ONE (1) SET OF WORKING DRAWINGS AND SHIP DRAWINGS AT THE JOB SITE FOR SOLE PURPOSE OF RECORDING ALL CHANGES MADE DURING CONSTRUCTION. AFTER COMPLETION OF THE WORK AND BEFORE REQUESTING FINAL PAYMENT THE ABOVE MENTIONED	hereby specifically reserved.
	1. PERMANENTLY LABEL PANELBOARDS, TIME SWITCHES, CONTRACTORS AND SAFETY SWITCHES INDICATING EQUIPMENT OR PANELS AND AREAS WHICH THEY SERVE I ABEL ALL PULL AND JUNCTION BOXES SERVING	4. MAIN GROUNDING SYSTEM (WHEN APPLICABLE) SHALL BE SIZED TO CONFORM WITH TABLE 250-66 OF NATIONAL ELECTRIC CODE. PROVED CONDUIT TO PROTECT GROUND WIRE FROM DAMAGE TO ANY AREA 6 FEET ABOVE FLOOR	DRAWINGS SHALL BE DELIVERED TO THE OWNER.	FIVE BELOW
	MECHANICAL EQUIPMENT. 2. LIGHTING AND APPLIANCE PANELS SHALL BE LABELED AS SHOWN ON DRAWINGS.	N. <u>LIGHTING/APPLIANCE PANELBOARDS AND</u> <u>DISTRIBUTION PANELS</u>	1. WHENEVER ALTERNATE MATERIALS ARE SPECIFIED, IT IS WITH THE UNDERSTANDING THAT ANY ONE OF THE MATERIALS IS ACCEPTABLE TO THE OWNER. MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED ARE NOT TO BE ASSUMED TO BE SATISFACTORY	
	3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION FOR PULL OR JUNCTION BOXES FURNISHED BY HIM.	1. DISTRIBUTION PANELS SHALL BE SQUARE "D" CO., TYPE "ILINE" OR APPROVED EQUAL G.E., SIEMENS, OR CUTLER HAMMER.	W. <u>SHOP DRAWINGS</u>	
	4. IDENTIFY AS TO USE ON FACE OF EQUIPMENT BY MEANS OF LAMINATED BLACK AND WHITE PHENOLIC LABEL WITH 1/2" LETTERS ENGRAVED THROUGH BLACK TO WHITE.	2. 480/2117 PANELS SHALL BE SQUARE "D" CO. TYPE "NF" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER. BREAKERS SHALL BE BOLTED TO BUS TYPE, QUICK-MAKE, BREAK-BREAKERS, AND CAPABLE OF INTERCHANGING ONE, TWO OR THREE POLE UNITS.	1. ONLY MANDATORY SHOP DRAWINGS AS LIMITED.OUTLINE HEREIN SHALL BE SUBMITTED. 2. NO WORK SHALL BE INSTALLED UNTIL THE MANDATORY SHOP	
_	<u>TESTS AND VOLTAGE RECORD</u> 1. ELECTRICAL CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS	MULTIPLE UNITS SHALL BE COMMON TRIP. PROVIDE SPARE BREAKERS IN EACH PANEL AS SHOWN. ALL BUSSING SHALL BE 98% CONDUCTIVITY COPPER, ALUMINUM BUS, ALUMINUM CONDUCTORS OR ALUMINUM LUGS ARE NOT ACCEPTABLE.	DRAWINGS HAVE BEEN APPROVED BY THE ARCHTITECT/ENGINEER, THE ARCHITECT/ENGINEER SHALL REVIEW SUBJECT SHOP DRAWINGS BEFORE A COPY IS SUBMITTED TO THE OWNER FOR RECORD PURPOSES	Real Estate Investment • Development • Management
	FOR CONTINUITY AND GROUNDS, WHEN THE INSULATION RESISTANCE TEST SHALL INDICATE THE POSSIBILITY OF FAULTY INSULATION, THE CONTRACTOR SHALL LOCATED THE POINTS OF SUCH FAULT INSULATION AND HE SHALL PULL OUT THE CONDUCTOR AT FAULT, REPLACE SAME WITH NEW, AND DEMONSTRATE, BY FURTHER TEST THE ELIMINATION OF	3, 208/1207 PANELS SHALL BE SQUARE "D" CO, TYPE "NQOD" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER WITH TYPE "QOB" BOLT-ON BRANCH BREAKERS ONLY.	3. ONLY MATERIAL AND EQUIPMENT MANUFACTURERS OF PRODUCTS OR SYSTEMS LISTED BELOW SHALL FURNISH MANDATORY SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR T CONTRACTORS PURCHASING EQUIPMENT SHIP DRAWINGS ARE TO CONTAIN THE	
	SUCH FAULT. 2. RECORD FEEDER LOAD CURRENTS AND LINE VOLTAGES MEASURED AT EACH PANELBOARD. ADJUST SINGLE PHASE LOAD CONNECTIONS TO PANELBOARD. ADJUST SINGLE PHASE LOAD CONNECTIONS TO	4. SHORT CIRCUIT RATINGS OF NEW PANELS SHALL BE AS NOTED ON DRAWINGS, OR AS OTHERWISE DIRECTED BY LOCAL UTILITY COMPANY. UL TESTED AND CERTIFIED SERIES RATINGS ARE ACCEPTABLE WITH WRITTEN DOCUMENTATION SHOWING SERIES RATINGS BUT ONLY IF ACCEPTABLE TO OUNDER OR LOCAL CODES	FOLLOWING: MANUFACTURER'S NAME, MATERIAL DESCRIPTION, SIZES AND DIMENSIONS AND OTHER PERTINENT INFORMATION TO CONFIRM AS	7401 ALCOA RD BRYANT, AR 72022
1	COMPLETE COPY OF ALL LOAD AND VOLTAGE RECORDS.	O. <u>GENERAL FOR ALL PANELS</u>	MINIMUM STANDARD FOR EQUIPMENT LISTED IN THE SCHEDULES ON THE DRAWINGS AND OR IN THE SPECIFICATIONS.	
0.	I. PROVIDE A SYSTEM OF PANELS, CONDUITS, FITTING, BOXES, SUPPORTS AND ALL OTHER MISCELLANEOUS MATERIALS REQUIRED FOR FOURMENT INDICATED ON PLANS, COMPLETE AND READY FOR	1. METAL FRAMED CARDHOLDERS WITH TYPEWRITTEN CIRCUIT DIRECTORY MUGT BE PROVIDED FOR EACH PANEL. DIRECTORY SHALL BE CLEAR AND DESIGNATION SHALL MATCH IDENTIFICATION ON EQUIPMENT. PANELBOARDS (POWER PANELS AND LIGHTING PANELS)	5. THE FOLLOWING SHOP DRAWING SUBMITTALS ARE A MANDATORY REQUIREMENT OF THE OWNER, IF THE FOLLOWING EQUIPMENT IS TO BE	Print Record 13 MARCH 2018 PERMIT SET
	2. HOME RUNS FROM 20A OUTLETS 125 FT. OR OVER AT 211 VOLTS, OR 60 FT. OR OVER AT 120 VOLTS SHALL BE #100 WIRE.	SHALL BE WITH IDENTIFICATION LABELED ON SWITCH AND/OR PANEL DOOR. PROVIDE ENGRAVED LAMINATED PHENOLIC NAMEPLATE WITH 1/2" LETTERS.	INSTALLED: * STEP DOWN TRANSFORMERS (480-120/208V) WHEN APPLICABLE * WIRING DEVICES (INCLUDING WEATHERPROOF RECEPTACLES)	
	3. ALL FIXTURE AND BRANCH CIRCUIT WIRING CONNECTIONS OR SPLICES SHALL BE MADE IN JUNCTION AND OUTLET BOXES WITH U.L. LISTED PRESSURE TYPE, CONNECTORS AND LISTED FOR 600 VOLTS (1000	2. ALL PANELS SAFETY SWITCHES, STARTERS AND IN GENERAL, ALL EQUIPMENT REQUIRING LUGS SHALL BE EQUIPPED WITH SOLDERLESS TYPE U.L. APPROVED LUGS.	 * LIGHTING FIXTURES & EMERGENCY LIGHTING FIXTURES * DISCONNECT SWITCHES * POWER/LIGHTING PANELS * MOTOR STARTERS * FIDE ALADIA DELACES 	
	VOLTS WHEN ENCLOSED IN FIXTURE). IDEAL INDUSTRIES WING NUTS AND/OR WIRE NUTS OR APPROVED EQUAL MAY BE USED FOR JOINTS IN WIRE OF #8 GAUGE OR LESS.	3. PROVIDE ALL NECESSARY UNISTRUT, CHANNEL, BACKING AND SUPPORTS TO MOUNT PANELBOARDS SECURELY IN PLACE.	* FIRE ALARM DEVICES X. <u>ALARM AND DETECTION SYSTEMS</u> (by vendor)	
K.	CONDUCTORS	4. SCREW FASTENED HANDLE LOCK-ON DEVICES ARE REQUIRED ON CIRCUIT BREAKERS PROTECTING SERVICES TO THE FOLLOWING EQUIPMENT:	1. PROVIDE NECESSARY CONDUIT AND POWER FOR ALARM AND DETECTION SYSTEMS. THIS SHALL INCLUDE THE FOLLOWING:	Revisions
	1. SIZES OF CONDUCTORS FOR FEEDERS ARE GIVEN ON THE DRAWINGS, AND NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED FOR BRANCH LIGHTING OR POWER CIRCUITS. ALL WIRING SHALL HAVE THE U.L. LABEL, AND BE OF 98% CONDUCTIVITY COPPER, ALUMINUM WIRE OR ALUMINUM CABLE IS NOT ACCEPTABLE UNLESS SPECIFICALLY SHOUN	 A. EMERGENCY, EXIT, SECURITY AND NIGHT LIGHTS. B. HEATING AND COOLING CONTROL CIRCUITS. G. ALL TIME SUUTCHES 	 DEDICATED 20 AMP / 120 VOLT CIRCUIT (5). 3/4" CONDUIT (EMPTY) TO EACH TO DOOR CONTACT, SOUND DETECTION SILENT DURESS ALARM, FILM CAMERA, SUSPICION BUILTON ETC. (REFER TO ARCHITECTURAL DOOR SOURD). 	
	ON DRAWINGS. 2, THE GAUGE OF ALL WIRE SHALL BE IN ACCORDANCE WITH B & S	P. TOGGLE SWITCHES AND RECEPTACLES	- COORDINATE ALL LOCATIONS OF ALARM AND DETECTION SYSTEM WITH OWNER. THESE ITEMS ARE NOT SHOWN ON ELECTRICAL	
	STANDARD. 3. ALL WIRE AND CABLE FOR BRANCH LIGHTING OR SMALL POWER CIRCUITS SHALL HAVE "NEC: TYPE "THHN" 600 VOLT INSULATION,	1. SINGLE POLE 1221 AND THREE(3) WAY #1223- SWITCHES SHALL BE RATED 20 AMPERE, 2117/120 VOLTS, COLOR TO BE BID AS WHITE (FINAL SELECTION BY ARCHITECT) HUBBELL OR EQUAL. SWITCHES SHALL BE MOUNTED 41-011 AROVE ENVIOLED EN COR TO CENTER UNE	DRAWINGS. Y. <u>COMMUNICATION SYSTEMS</u>	
	4. WIRE AND CABLE ABOVE *8 GAUGE SHALL BE STRANDED TYPE "THHN"	2. DUPLEX RECEPTACLES SHALL BE AS SPECIFIED ON DRAWINGS.	1. WORK INCLUDES: EMPTY CONDUIT WITH NYLON PULLWIRES AND BOXES FOR UTILITY TELEPHONE WIRING.	Date Project No.
		Q. DISCONNECT SWITCHES	2. WORK BY COMMUNICATIONS CONTRACTOR:	Sheet Title

- 2. SWITCHES ON THE ROOF SHALL BE WEATHERPROOF MOUNTED ON

UNISTRUT,

3. SWITCHES SHALL BE LABELED ON THEIR COVER IDENTIFYING THE EQUIPMENT TO BE PROTECTED.

E4.0

Released for Construction Not Released for Construction

- 1. <u>SCOPE OF WORK</u>
 - A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
 - B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES GOVERNING WORK OF THIS NATURE.
 - C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
 - D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.
- 2. <u>PERMITS</u>

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

- 3. <u>SHOP DRAWINGS</u>
 - A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT AN ELECTRONIC SET OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
- 4. DOMESTIC WATER SUPPLY PIPING
 - A. UNDERGROUND: PROVIDE TYPE "K" SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.
 - B. ABOVE GROUND: PROVIDE TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE "NO LEAD" TYPE.
 - C. ALL HOT WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.
 - D. ALL COLD WATER PIPING TO BE INSULATED WITH 1/2" FOAM INSULATION.
- 5. <u>SANITARY/STORM DRAINAGE AND VENT PIPING</u>
 - A. ABOVE GRADE:
 - -2" AND BELOW: SCH. 40 GALV. STL. PIPE WITH SCREWED ENDS OR SCH. 40 PVC WITH SOLVENT JOINTS OR DWV COPPER WITH SOLDER JOINTS. ALL SOLDER TO BE "NO LEAD" TYPE.
 - -3" AND ABOVE: SERVICE WT. CAST IRON WITH NO-HUB OR BELL AND SPIGOT JOINTS; OR SCH. 40 PVC WITH SOLVENT JOINTS.
 - B. BELOW GRADE: SERVICE WT. CAST IRON WITH BELL AND SPIGOT JOINTS OR SCH. 40 PVC WITH SOLVENT JOINTS.
 - C. PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
 - D. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.
 - E. DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, AND PIPING LARGER THAN 3" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8" PER FOOT.
 - F. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
 - G. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.
- 6. PENETRATIONS
 - A. ALL STUB-INS AND/OR SLAB OR WALL PENETRATION TO BE PER 2006 ARKANSAS STATE PLUMBING CODE. ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS SHALL BE SLEEVED.
- 7. <u>GAS PIPING</u>
 - A. PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS. WHERE GAS PIPE CONNECTS TO EQUIPMENT, IT SHALL BE PROVIDED WITH A DRIP LEG THE FULL SIZE OF THE RUNOUT, A 100% SHUTOFF VALVE AND A UNION. GAS PIPING CONTAINING PRESSURE GREATER THAN 9" W.G. SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH WELDED JOINTS.
 - B. GAS PIPING SHALL BE PAINTED WITH RUST INHIBITING PAINT IN SAFETY YELLOW.
- 8. <u>PIPE SUPPORTS</u>
 - A. ABOVE GRADE ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN THE 2006 ARKANSAS STATE PLUMBING CODE.
 - B. BELOW GRADE EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.

-INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHER- WISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.

-EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 42" OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

- 9. <u>MISCELLANEOUS</u>
 - A. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
 - B. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
 - C. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
- 10. <u>TESTING</u>
 - A. PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE 2006 ARKANSAS STATE PLUMBING CODE.
- 11. <u>GUARANTEE</u>
 - A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
 - B. FOR THE SAME PERIOD, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

VALVE -----

ELECTRIC WATER										
TAG	CAPACITY	RECOVERY @ 100 DEG. F. RISE	HEATING ELEMENT KW	ELECT V./PH						
WH	6 GAL.	12	3	208/						

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FIVE BELOW

A DEVELOPMENT BY:

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FIRE PROTECTION GENERAL NOTES

- OF NFPA #13, #24, THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL FIRE CODE, THE STATE FIRE
- THE STATIC AND RESIDUAL PRESSURES TO USE FOR HIS CALCULATIONS.
- 3. SPRINKLER HEADS INSTALLED IN LAY-IN ACOUSTICAL TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE CEILING TILES.
- 5. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTRION
- 6. THE SPRINKLER SYSTEM SHALL BE DESIGNED WITH A 10 PSI SAFETY MARGIN.
- LIMITED TO 100 SQ. FT. PER SPRINKLER ON 1" OUTLETS.
- 8. PIPE SLEEVES SHALL BE SET FOR CONCRETE FLOORS AND FIRE WALLS PRIOR TO BEING THEM BEING POURED OR CONSTRUCTED.
- 9. ALL HOLES THROUGH FIRE WALLS SHALL BE CAULKED WITH SUITABLE MATERIALS APPROVED FOR THAT PURPOSE.
- 11. ALL CONTROL VALVES SHALL HAVE A TAMPER SWTICH SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR. WIRING OF THE SWITCHES WILL BE BY THE ELECTRICAL CONTRACTOR.
- AS IS POSSIBLE IN AREAS WITHOUT FINISHED CEILINGS. THE SPRINKLER PIPING CANNOT BE BELOW 12'6".
- 13. WHERE THE REQUIREMENTS OF OWNERS AND THE OWNERS INSURANCE UNDERWRITERS AND THESE DOCUMENTS EXCEED THOSE OF THE NATIONAL FIRE CODES AND THE BUILDING CODE THEY SHALL PREVAIL.
- THREADABLE LITE WALL PIPE SHALL "NOT" BE USED.
- 15. SPRINKLERS HEADS SHALL BE:
 - A. BRASS UPRIGHT OR PENDENT ON 1" SPRIGS OR DROPS IN AREAS OF EXPOSED STRUCTURE.
 - B. FULLY CONCEALED PENDENT IN AREAS WITH CEILINGS.
 - C. EXTENDED COVERAGE SPRINKLERS SHALL NOT BE USED.
- 16. A PROPERLY COMPLETED CONTRACTORS MATERIAL AND TEST CERTIFICATE SHALL BE PROVIDED FOR THE INSIDE PORTION OF THE SYSTEM.
- 17. THE SPRINKLER SYSTEMS SHALL BE HUNG, SUPPORTED, IN ACCORDANCE WITH NFPA #13. HANGER LOCATIONS SHALL BE SHOWN ON THE SUBMITTAL DRAWINGS AT THE LOCATIONS THEY ARE REQUIRED TO BE PER NFPA 13.

1. THIS BUILDING SHALL BE PROTECTED WITH A WET PIPE SPRINKLER SYSTEM DESIGNED PER THE CURRENTLY ACCEPTED EDITION MARSHAL, THE LOCAL AUTHORITY HAVING JURISDICTION, THE OWNERS INSURANCE UNDERWRITER, AND THESE DOCUMENTS.

2. THE EXISTING SPRINKLER SYSTEM SHALL BE REMOVED BACK TO THE TOP OF THE RISER. A NEW SPRINKLER SYSTEM HYDRAULICALLY DESIGNED TO THE AVAILABLE CITY WATER WATER SUPPLY SHALL BE INSTALLED IN THE SPACE. THE CONTRACTOR SHALL HAVE A CURRENT WATER FLOW TEST (LESS THAN THREE MONTHS OLD) PERFORMED PRIOR TO STARTING DESIGN. THE CONTRACTOR SHALL ALSO HAVE A 24 HOUR WATER TEST PERFORMED AT THE SAME TIME AS THE FLOW TEST. THIS TEST SHALL BE USED TO ADJUST

4. THE SHOP DRAWINGS SHALL BE ON A (MINIMUM) SCALE OF 1/8 "=1'-0". BUILDING SECTIONS, RISER DETAILS, TEST/DRAIN ASSEMBLIES AND OTHER DETAILS SHALL BE ON AT (MINIMUM) SCALE OF 1/2"=1'-0". THESE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR HIS REVIEW AND COMMENTS PRIOR TO ORDERING, PURCHASING, FABRICATING, AND OR INSTALLING ANY FIRE PROTECTION EQUIPMENT. SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE LOCAL AND STATE AUTHORITIES HAVING JURISDICTION AND THE OWNERS INSURANCE UNDERWRITER FOR THEIR REVIEW AND APPROVAL PRIOR TO ORDERING, PURCHASING, FABRICATING, AND OR INSTALLING ANY FIRE PROTECTION EQUIPMENT. THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE STAMPED BY THE SPRINKLER CONTRACTORS CERTIFICATE HOLDER, OR ENGINEER PRIOR TO SUBMITTAL.

EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREON.

7. THE SPRINKLER SYSTEM SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP II OCCUPANCY (.18 GPM PER SQ. FT. OVER THE MOST HYDRAULICALLY REMOTE 2500 SQ. FT. PLUS 250 GPM FOR HOSE STREAMS.). ALL SPRINKLERS SHALL BE QUICK RESPONSE HOWEVER A REDUCTION IN THE REMOTE AREA FOR THE USE OF QUICK RESPONSE SPRINKLERS IS NOT ALLOWED. THE HYDRAULIC CALCULATIONS SHALL BE PREPAIRED USING THE AREA DENSITY METHOD, HOWEVER AS STATED BEFORE THE HYDRAULICALLY REMOTE AREA SHALL NOT BE REDUCED BELOW 2500 SQ. FT. FOR THE SYSTEM. THE SPRINKLERS SHALL BE SPACED TO ANY AND ALL OBSTRUCTIONS. EXTENDED COVERAGE SPRINKLERS CAN NOT BE USED! ALL SPRINKLERS SHALL BE INSTALLED ON 1" OUTLETS WITH NIPPLES AND REDUCING COUPLINGS. THE MINIMUM PIPE SIZE PIPE SIZE SHALL BE 1-1/4", EXCEPT PIPES SUPPLYING ONLY ONE(1) SPRINKLER HEAD MAY BE 1" IF A GRID SYSTEM IS USED THE MINILNUM BL SIZE SHALL BE 1-1/2". IF THE SPACE IS SPRINKLED AS A SHELL SPACE THE SPRINKLER SPACING IN SHELL AREAS SHALL BE

10. ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S RECOMMENDATIONS AND NFPA.

12. ALL SPRINKLER PIPING SHALL BE INSTALLED ABOVE THE CEILINGS WHERE CEILINGS ARE TO BE INSTALLED AND AS HIGH SPRINKLERS SHALL BE SPACED TO THE BUILDING STRUCTURE AND OTHER BUILDING COMPONANTS AS REQUIRED BY NFPA.

14. 1" THROUGH 1-1/2" PIPE SHALL BE BE SCHEDULE 40. 2" AND LARGER PIPE MAY BE SCHEDULE 10 OR SCHEDULE 7.

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