SPRINGEIFID C-STORE RENOVATION

1403 EAST SUNSHINE STREET SPRINGFIELD, MISSOURI

GENERAL NOTES ABBREVIATIONS CODE ANALYSIS LEGEND OF SYMBOLS JDIST JDINT T2L TL JURISDICTION- CITY OF SPRINGFIELD PLANNING & ZONING COMMISSION AB AB∨ A/C ACT AFF AGG ALT ALUM AN⊡D AP ANCHOR BOLT ABOVE AIR CONDITION APPLICABLE CODES 2018 International Building and Fire Code KNOCKOUT КΠ 2018 International Plumbing Code and Gas Code ACOUSTICAL CEILING TILE 2018 International Mechanical Code ABO∨E FINISHED FLOOR LAM LAMINATE(D) 2018 International Fire Code AGGREGATE LAV LH LAVATORY NORTH ARROW 2017 National Electric Code ALTERNATE LEFT HAND 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC A117 ALUMINUM LP LOW POINT ANDDIZED LTL LINTEL ACCESS PANEL APPROX APPROXIMATE MASONRY MAS MAX to suit field conditions. ARCH AUTD ARCHITECTURAL MAXIMUM AUTOMATIC MECHANICAL MEZZANINE DRAWING TITLE DCCUPANCY TYPE M- MERCANTILE MECH MEZZ A1.00 X=X KITCHEN SQFT - 333/200 = 2 BD BET BIT BLDG BLK(G) BM(S) B,BDT BRG BDARD MFR,MFG MANUFACTURER BETWEEN BITUMINDUS BUILDING BLOCK(ING) jurisdictions. RETAIL SQFT - 1,666/60 = 28MINIMUM MIN MISC STORAGE SQFT - 637/300 = 2MISCELLANEOUS MD MR MTD MTL MASONRY OPENING Occupant Load - Total = 32 $\begin{pmatrix} 10 \\ A1 11 \end{pmatrix}$ ELEVATION MDISTURE RESISTANT BEAM(S) BOTTOM BEARING MOUNTED TYPE BF CONSTRUCTION-Type II-B, UNPROIECIED, Sprinkled METAL BU BUILT-UP NORTH NOT IN CONTRACT NIC ND NDM NTS CABINET CERAMIC CONTROL JOII CENTER LINE CEILING CLOSET CLEAR ALLOWABLE BUILDING COMPONENTS CAB CER CJ NUMBER NOMINAL BUILDING OR WALL SECTION architect. Maximum Height-40' Maximum No of Stories-2 JOINT NOT TO SCALE Maximum Area Multi-Story-9,000 Occupancy Separation-1 Hours ON CENTER DUTSIDE DIAMETER DUTSIDE FACE DD DF DFF DPNG DPP DSCI CONCRETE MASONRY UNIT (10) (A1.11) REQUIRED RATINGS DFFICE COLUMN CONCRETE CONSTRUCTION DPENING DPPOSITE DWNER SUPPLIED, CONTRACTOR INSTALLED DETAIL REFERENCE Interior Bearing Walls- NA Interior Non-Bearing Walls NA Columns-NA CONTINUOUS Beams and Girders-NA CARPET CERAMIC TILE DSDI OWNER SUPPLIED, Floors- NA OWNER INSTALLED CENTER Roof- NA CTR PRECAST PERFORATEI CU CUBI PC PERF ROOM NAME & NUMBER Exterior Bearing Walls- NA (NL units of material and labor. Exterior Nonbearing Walls-NA (NL))ETAIL)RINKING FOUNTAIN PERIMETER PLATE PLASTIC DET PERIM Corridors-1 Hour w/20min. openings PL PLAS PLBG PLAM PLYWD Interior Finish Classification-Class C DK(G) DIM DN DDW DR DECK(ING) DIMENSION DOWN DOWEL DOOR Boiler Rooms-2 Hours if boiler capacity exceeds 250,000 BTU PLUMBING PLASTIC LAMINATE Shafts, Stairwells- 1 Hour/1 Hour Opening but not limited to, bracing and shoring. (100 DOOR REFERENCE Tenant Separation Walls- 1 Hour/45 Min. Opening PLYWOOD PNL PANEL PNT PAINT PDL POLISHED PREFAB PREFABRICATED DOWNSPOUT DS DWG DRAWING Maximum Travel Distance-200' EAST PROP PSF PSI PT PROPERTY WINDOW REFERENCE Exit Capacity for Level Travel-0.2 Per Person EACH ΕA POUNDS PER SQUARE FOOT EJ ELEC EL,ELEV ENT EQ EQUIP EDF EXPANSION JOINT Exit Capacity for inclined Travel-0.37 Per Person POUNDS PER SQUARE INCH LECTRICAL Minimum Clear Door Width-32" EVATION Minimum Clear Stair Width-44" completion of the project. PTD P∨MT PAINTED NTRANCE Minimum Corridor Width-44" or 44" for Occupant Loads Less Than 100 PAVEMENT QUAL ELEVATION MARK Maximum Dead End Corridor-20'-0 \bullet LB(S) POUND(S) QUIPMENT Minimum Number of Exits, 1-500 persons, 2 exits LECTRIC DRINKING FOUNTAIN RADIUS, RISER EX, EXISTEXISTING ROOF DRAIN REINFORCING BAR RD EXP EXT EXPANSION FIRE PROTECTION EXTERIOR, EXTINGUISHER REBAR Sprinklers- Not Required REFERENCE REF EACH WAÝ Electric Wall Heater EW EWH (10) GRID REFERENCE Fire Alarm -Not Required REGULAR REINFORCING REG REINF Standpipe Not Required FIRE CODE FLOOR DRAIN FOUNDATION REQD RES RET REQUIRED FC Emergency Lightling Required RESILIENT FD COVER SHEET A.0 FDN FDUNDATI FDC FIRE DEP FE(C) FIRE EXT FIN FINISH FIX,FIXT FIXTURE RETAINING HANDICAPPED ELEMENTS C.1 SITE PLAN REVISION RIGHT HAND FIRE DEPARTMENT CONNECTION FIRE EXTINGUISHER (CABINET) RE∨ RH MATCHLINE Parking-2% of First 1000 Spaces +1 for each 100 Spaces Over C.2 SITE DEMO PLAN 1000 (ADA4.1.2) ROOM C.3 LANDSCAPE PLAN Signage Parking and Directional Signage ROUGH DPENING RΠ FLASH(G) FLASH(ING) FLR FLOOR Ramps 1:12 with Max 30-0 Between Landings A.1 FOUNDATION PLAN SHUTH Hardware Lever Handles throughout with Knarled A.2 SOLID CORE FLUOR FLUDRESCENT Surfaces to Hazardous Area FDM FT FACE OF MASONRY SH'G SHEATHING Toilet Fixtures-2% of Total Fixtures w/Minimum of One A.3 FEE⁻ SIM SIMILAR Projection into Path of Travel4 A.3.1 FINISH FLOOR PLAN FTG FOOTING SPECIFICATION SPEC FB FRP FIRE BLANKET FIBER REINFORCED PLASTIC A.4 EQUIPMENT PLAN SQUAR STAINLESS STEEL SS STD STL A.5 FHC FIRE HOSE CABINET TANDARD FRT FIRE RETARDANT TREATMENT A.6 STEEL STRUCT STRUCTURAL A.7 GΑ GAUGE SUSP SUSPENDED GALVANIZED GYPSUM BOARD GLASS A.301 GAL∨ GB SECTIONS & DETAILS THRESHOLD THOLD A.401 DOOR DETAILS TELEPHONE TEMPERED THICK(NESS) TEL TEMP GALVANIZED METAL A.402 ADA PLAN GDVT GD GRT GRTG GYP GOVERNTMENT THK TRTD TYP A.501 SPECS 1 GRADE GROUT GRATING GYPSUM TREATED A.502 SPECS 2 TYPICAL A.503 SPECS 3 UNDERWRITERS LABORATORY UL UDN UNLESS NOTED OTHERWISE HC HOLLOW CORE HDW,HW HARDWARE HM HOLLOW METAL HNDCP HANDICAP HORIZ HORIZONTAL VINYL VINYL COMPOSITION TILE V VCT VERT VERTICAL VINYL WALL COVERING VWC HIGH POIN[.] HEIGHT HP HT,HGT WEST W W/(0) WITH(OUT) INSIDE DIAMETER INSIDE FACE INCHES WD WOOD WWF(M) WOVEN WIRE FABRIC(MESH) INSUL INT INSULATION WATER RESISTANT WR

INTERIOR

1.Verify conditions, dimensions and elevations of site and services.

2.All Dimensions and conditions tieing into or governed by existing construction are approximate and are not guaranteed to be correct. All such dimensions and conditions shall be field verified by the general contractor prior to the preparation of shop drawings and before proceeding with any work. The first submittal of shop drawings must contain correct conditions and dimensions obtained from the field. If conditions and dimensions vary greatly from those shown, the contractor shall notify the architect before preparation of shop drawings or before proceeding with work. Where dimensions are shown, use dimensions, do not scale. Where dimensions are shown, use exact dimensions - Dimensions with + indication only are adjustable

3.Contractor shall coordinate and obtain all necessary permits and approvals or guidelines from governing regulatory agencies before proceeding with any items of work under or within such

4.All work shall conform to the requirements of the 2018 International Building Code. And all federal, state and city laws, codes and regulations as each may apply.

5.General notes and typical details shall apply to all parts of the project except where they conflict with specific notes and details where conditions are not specifically indicated, but are of similar character to details shown, similar details shall be used. Subject to the review of the

6. Imissions or conflicts between the various elements of the working drawings and/or specifications shall be brought to the attention of the architect prior to the stage of such work. 7. The contractor shall be responsible for coordinating the schedule and work of all trades and shall check all dimensions, all discrepancies shall be called to the attention of the architect and shall be resolved prior to proceeding with the work.

8. To establish the complete scope of its work and to affect close coordination with the other trades, each trade shall completely review the plans and specifications, not only for its respective trade but for the work of all other trades as well. Titles of divisions (and sections in specifications) are provided merely for convenience and shall not be taken as an absolute segregation of the

9. The contract drawings and specifications represent the finished structure and do not indicate the method of construction. The contractor shall supervise and direct the work and shall be solely responsible for construction means and methods. Sequences and procedures including,

10.The contractor agrees that in accordance with generally accepted construction practices the contractor shall assume sole and complete responsibility for the job site conditions during the course of construction including the safety of all persons and property and that this requirement shall apply continuously and not be limited to normal working hours.

11.All work shall be performed in a thoroughly first class and workmantile manner in conformity with the plans and specifications and shall be in good usable condition at the

12.Coordinate floor and wall openings and roof penetrations with all trades involved. Provide steel frames, sleeves, lintels, and similar enclosures required around penetrations in masonry or concrete walls or floors. Fire seal penetrations through fire resistive rated construction.

MECHANICAL

INDEX OF DRAWINGS

EXISTING/DEMOLITION FLOOR PLAN PROPOSED FLOOR PLAN EXISTING/DEMOLITION ELEVATIONS PROPOSED ELEVATIONS REFLECTED CEILING PLAN

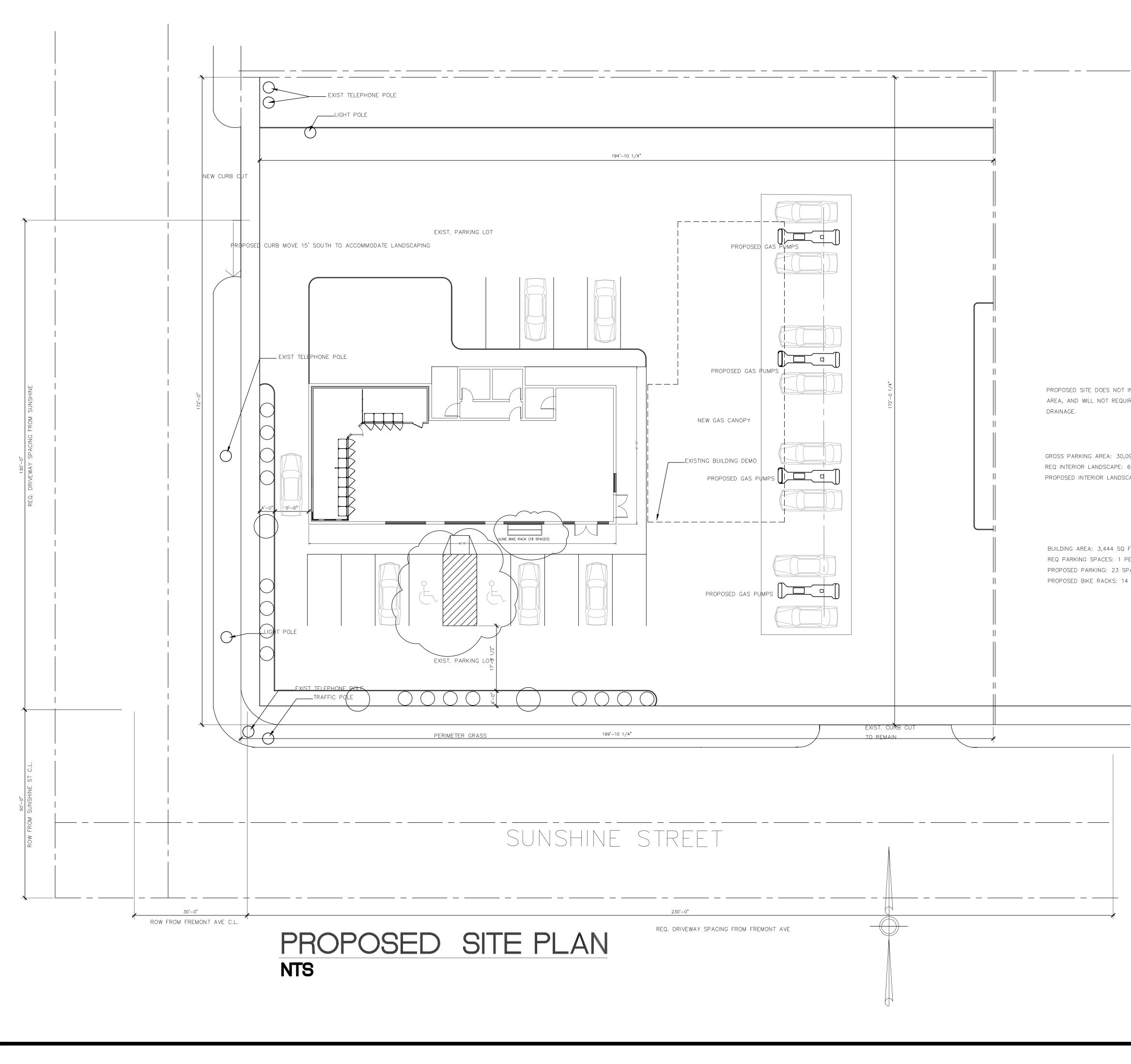
M.001 MECHANICAL SPECS/SCHEDULES M.101 MECHANICAL PLAN M.102 MECHANICAL PIPING M.201 DETAILS M.202 HOOD SCHEDULES M.203 HOOD SECTION/PLAN M.204 FAN SCHEDULES ANSUL DETAILS M.205 PLUMBING P.001 COVER SHEET

P.002 SITE PLAN P.101 SITE DEMO PLAN P.102 LANDSCAPE PLAN ELECTRICAL

ELECTRICAL SCHEDULES E.001 PANEL SCHEDULES E.002 ELECTRICAL NOTES E.003 E.201 LIGHTING PLAN E.202 POWER PLAN

5월 86 - \bigcirc Ц 11 T N E CIRCLE, STE. SSEE 38018 ARCHITEC1 W TREE TENNES ASSOCIATES 79 WILLOW (901) \sim FT YN $\mathbf{\nabla}$ Ц GU S L (C \bigcirc 40 ROJECT NUME 8031428 SCALE AS SHOWN SHEET NUMBER

DATE OF ORIGINAL ISSU 08/30/2023



PROPOSED SITE DOES NOT INCREASE THE IMPERVIOUS AREA, AND WILL NOT REQUIRE ADDITIONAL DRAINAGE.

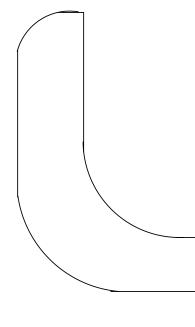
GROSS PARKING AREA: 30,096 SQFT REQ INTERIOR LANDSCAPE: 6,019 SQFT PROPOSED INTERIOR LANDSCAPE: 6,019 SQFT

BUILDING AREA: 3,444 SQ FT REQ PARKING SPACES: 1 PER 250 SQ FT = 14 SPACES PROPOSED PARKING: 23 SPACES PROPOSED BIKE RACKS: 14

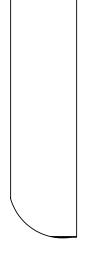
പ് 11 ŢŜ CIRCLE, STE. SEE 38018 ARCHITECI \mathcal{O} ASSOCIATES 'RE INE \geq WILLO ဂ \circ \sim AYNE GUY \forall ROJECT NUME 8031428 SCALE AS SHOWN SHEET NUMBER \cap **U**.

DATE OF ORIGINAL ISS 08/30/2023

SITE DEMOLITION PLAN 3/32"=20'-0"



EXIST. CURB CUT



EXIST. BUILDING

EXIST. CURB CUT

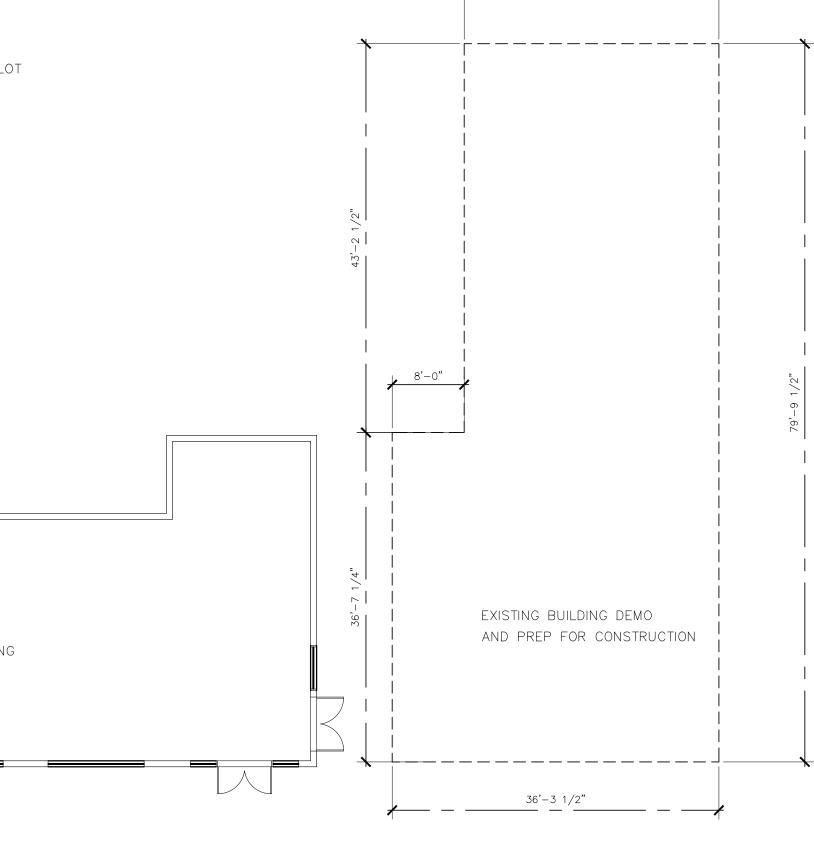
EXIST. PARKING LOT

SUNSHINE STREET

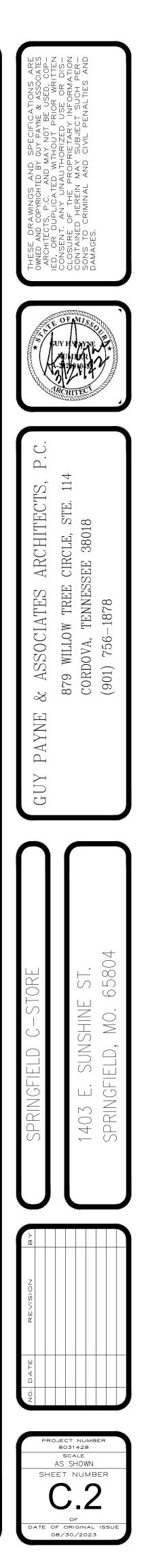
EXIST. CURB CUT

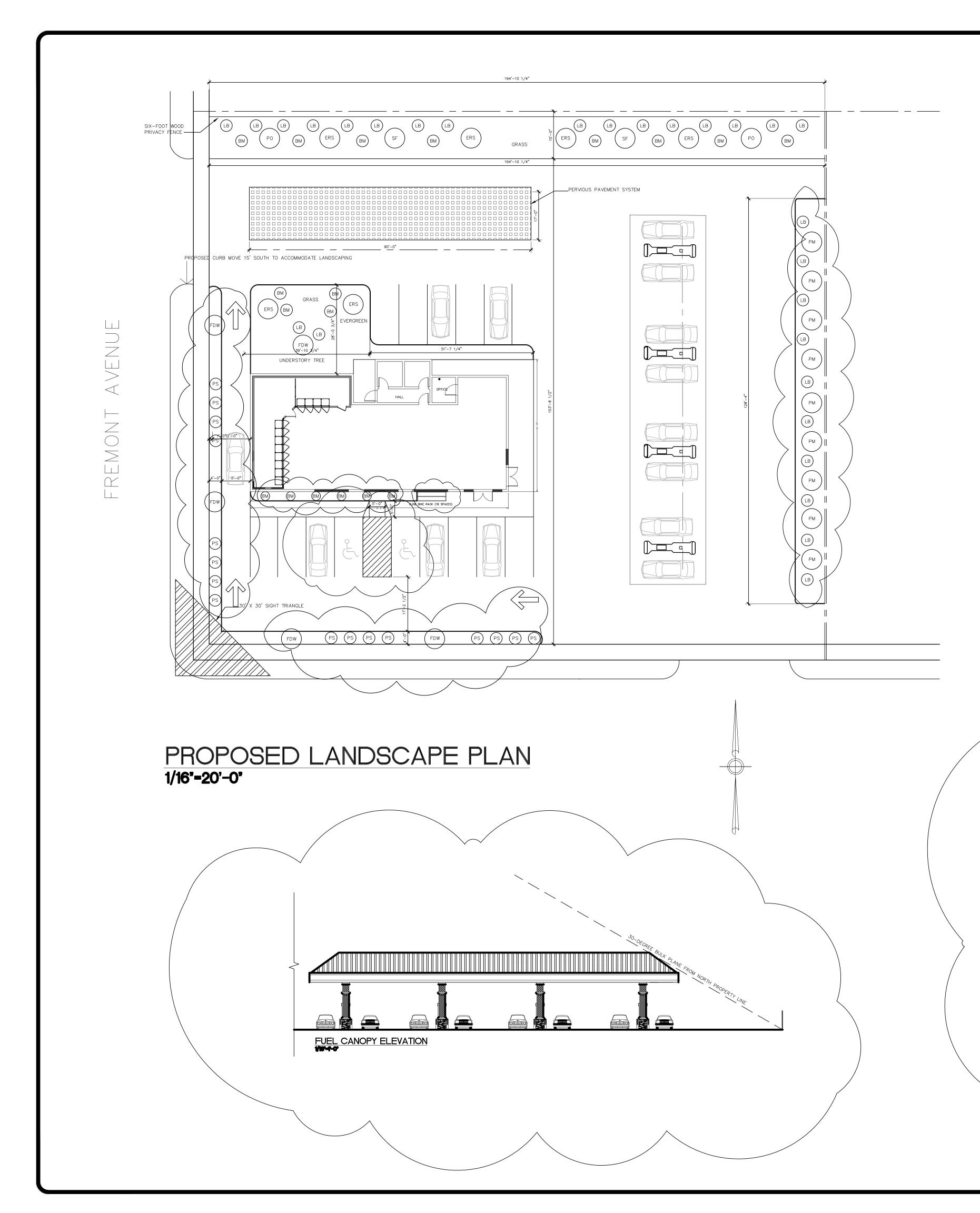
EXIST. CURB CUT

EXIST. PARKING LOT



28'-3 1/2"





	PLANT SCHEDULE												
SYM	QTY	COMMON NAME	BOTANICAL	SIZE	REMARKS								
PO	2	GREEN PILLAR PIN OAK	QUERCUS PALUSTRIS PRINGREEN	3" CAL									
BM	12	BUTTERFLY MILKWEED	ASCLEPIAS TUBEROSA	12"-18" SPR									
FDW	5	FLOWERING DOGWOOD	CORNUS FLORIDA	10 GAL									
РМ	9	PAPERBARK MAPLE	ACER GRISEUM	10 GAL	3' SPACING								
PS	16	SWITCHGRASS	PANICUM VIRGATUM HEAVY METAL	3 GAL									
SF	2	SASSAFRAS	SASSAFRAS ALBIDUM	30 GAL									
ERS	6	EASTERN RED CEDAR	JUNIPERUS VINGINIANA	10 GAL									
TS	0	TUSSOCK SEDGE	CAREX STRICTA	18"-30" SPR									
LB	28	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	12" SPR									
НХ	15	DAY LILY	HEMEROCALLIS HAPPY RETURNAL STELLABELLA	1 GAL	50% OF EACH								

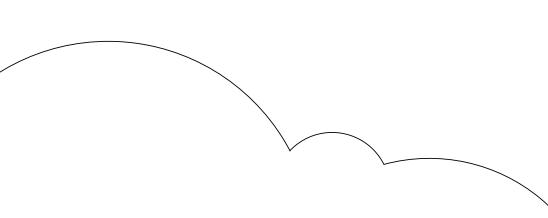
NOTES: 1. THIS PLANT SCHEDULE IS PROVIDED AS A CONVENIENCE TO THE LANDSCAPE CONTRACTOR AND IS NOT GUARANTEED CORRECT. IT IS LANDSCAPE 1. THIS PLANT SCHEDULE IS PROVIDED AS A CONVENIENCE TO THE LANDSCAPE CONTRACTOR AND IS NOT GUARANTEED CORRECT. IT IS LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES ILLUSTRATED ON THE PLAN AND VERIFY THOSE FIGURES AGAINST THE PLANT SCHEDULE. 2. UNDERSIZE HEIGHT (HT) OR SPREAD (SPR) PLANT MATERIALS WILL NOT BE ACCEPTED & THE LANDSCAPE CONTRACTOR SHALL REPLACE AT NO ADDITIONAL COST. 3. CONFIRM THAT THERE ARE FIVE (5) REGIONAL SOURCES WITH LARGE NUMBERS OF THE INDIVIDUAL PLANT SPECIES AND CULTIVARS SPECIFIED ABOVE

AVAILABLE. IF THERE ARE ONLY (3) THERE MAY BE RISK IN OBTAINING THAT PLANT IN THE PROJECT IS FAR OUT ON THE SEASONAL CALENDAR. IF YOU CAN ONLY LOCATE ONE SOURCE THEN PLACE A DEPOSIT WITH THE VENDOR TO HOLD THE PLANT QUANTITY DESIRED UNTIL YOU NEED IT.



A More Images

IN STOCK	COLOR	EACH	PRICE	WT.	BIKE	SIZE	DESCRIPTION	MODEL
SHIPS TODAY	COLOR	3+	1	(LBS.)	CAP.	L x W x H	DESCRIPTION	NO.
1 ADD	🗖 Galvanized 👻	\$620	\$650	97	18	110 x 36 x 31"	Double-Sided	H-2541GALV



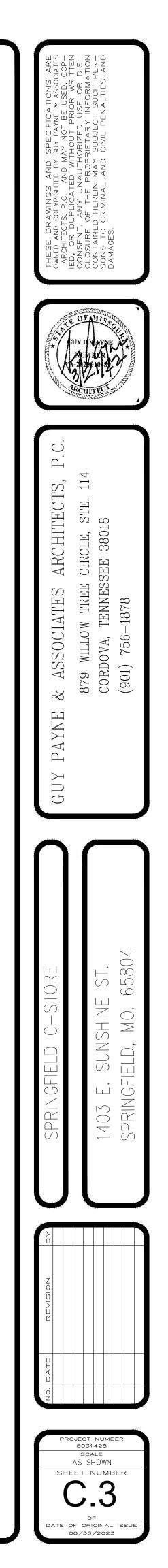
Double-Sided Grid Bike Rack - 18 Bike Capacity, Galvanized

Everybody's biking! Secures bikes, deters theft. For commuter stations, libraries, schools.

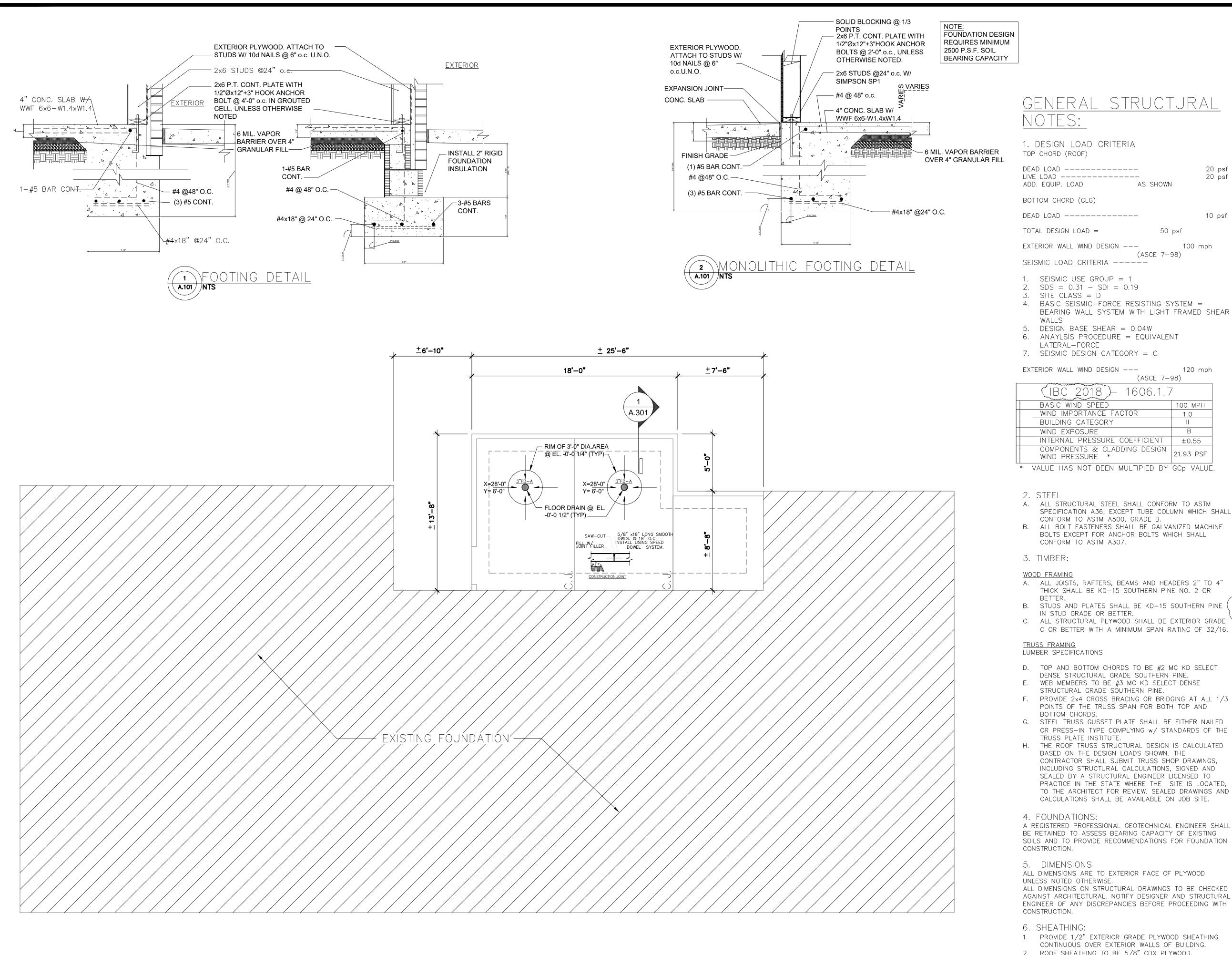
- Sturdy 14-gauge galvanized steel construction.
- Rust-resistant.
- Mounting hardware included.

SPECIFY COLOR:	

SHIPS UNASSEMBLED VIA MOTOR FREIGHT



FOUNDATION PLAN 1/4"=1'-0"



- 2. ROOF SHEATHING TO BE 5/8" CDX PLYWOOD.
- 7. NAILING PATTERN:
- INTERMEDIATE STUDS.

GENERAL STRUCTURAL

20 psf 20 psf AS SHOWN

50 psf

100 mph (ASCE 7-98)

4. BASIC SEISMIC-FORCE RESISTING SYSTEM =

6. ANAYLSIS PROCEDURE = EQUIVALENT

120 mph (ASCE 7-98)

18 - 1606.1.7	7
SPEED	100 MPH
ANCE FACTOR	1.0
TEGORY	
IRE	В
ESSURE COEFFICIENT	±0.55
& CLADDING DESIGN IRE *	21.93 PSF
T DEENI MILII TIDIED DV	

A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A36, EXCEPT TUBE COLUMN WHICH SHALL CONFORM TO ASTM A500, GRADE B. B. ALL BOLT FASTENERS SHALL BE GALVANIZED MACHINE BOLTS EXCEPT FOR ANCHOR BOLTS WHICH SHALL

A. ALL JOISTS, RAFTERS, BEAMS AND HEADERS 2" TO 4" THICK SHALL BE KD-15 SOUTHERN PINE NO. 2 OR

B. STUDS AND PLATES SHALL BE KD-15 SOUTHERN PINE C. ALL STRUCTURAL PLYWOOD SHALL BE EXTERIOR GRADE C OR BETTER WITH A MINIMUM SPAN RATING OF 32/16.

D. TOP AND BOTTOM CHORDS TO BE #2 MC KD SELECT DENSE STRUCTURAL GRADE SOUTHERN PINE.

STRUCTURAL GRADE SOUTHERN PINE.

POINTS OF THE TRUSS SPAN FOR BOTH TOP AND

G. STEEL TRUSS GUSSET PLATE SHALL BE EITHER NAILED OR PRESS-IN TYPE COMPLYING w/ STANDARDS OF THE

H. THE ROOF TRUSS STRUCTURAL DESIGN IS CALCULATED BASED ON THE DESIGN LOADS SHOWN. THE CONTRACTOR SHALL SUBMIT TRUSS SHOP DRAWINGS, INCLUDING STRUCTURAL CALCULATIONS, SIGNED AND

SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE THE SITE IS LOCATED, TO THE ARCHITECT FOR REVIEW. SEALED DRAWINGS AND CALCULATIONS SHALL BE AVAILABLE ON JOB SITE.

A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL BE RETAINED TO ASSESS BEARING CAPACITY OF EXISTING SOILS AND TO PROVIDE RECOMMENDATIONS FOR FOUNDATION

ALL DIMENSIONS ARE TO EXTERIOR FACE OF PLYWOOD

ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL. NOTIFY DESIGNER AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH

1. PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING CONTINUOUS OVER EXTERIOR WALLS OF BUILDING.

A. PLYWOOD TO COMMON STUD WALL: NAIL WITH 10d NAILS 6" O.C. AT ALL JOINTS, AND AND 12" O.C. AT ALL

B. PLYWOOD TO ROOF TRUSS (ROOF DECKING): SEE SHT. S-4 FOR ROOF NAIL PATTERN.

GENERAL NOTES:

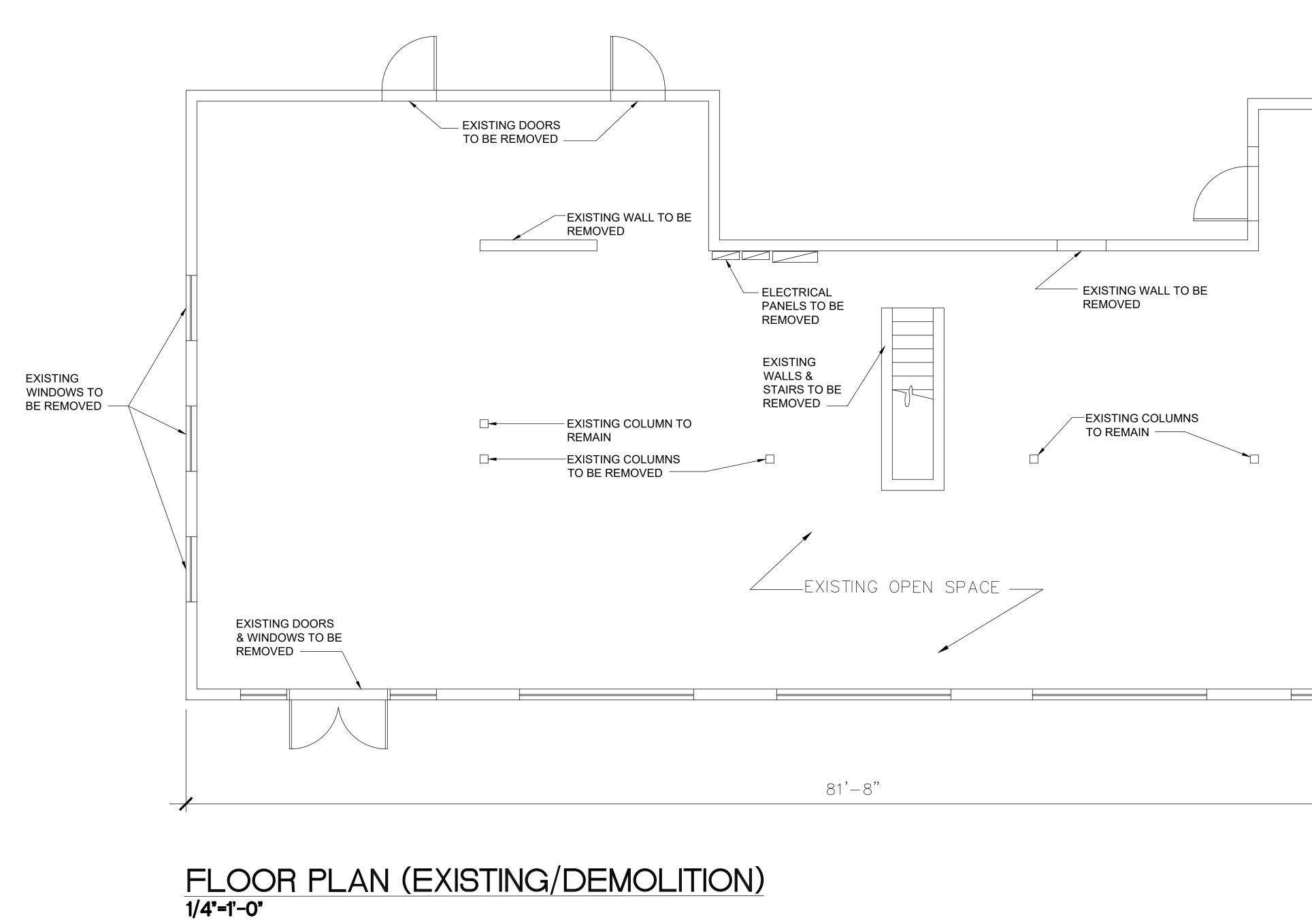
- 1. TYPICAL SLAB CONSTRUCTION TO BE 4" 3000 PSI CONCRETE WITH 6X6 WWF PLACE OVER 6 MIL VAPOR BARRIER, AND COMPACTED TERMITE-TREATED FILL AS REQUIRED.
- 2. FOUNDATION IS DESIGNED FOR ALLOWABLE SOIL PRESSURE OF 2500 P.S.F. G.C. TO VERIFY SOIL BEARING CAPACITY IS IN ACCORDANCE WITH FOUNDATION DESIGN. STRUCTURAL ENGINEER OF RECORD SHALL REVISE FOOTING SIZE IF A LOWER BEARING CAPACITY IS RECOMMENDED BY THE GEOTECHNICAL REPORT.
- 10 psf 3. PLUMBING ITEMS ARE SHOWN FOR GENERAL INFORMATION ONLY. CONTRACTOR TO COORDINATE EXACT LOCATION OF ITEMS WITH PLUMBING SHEETS AND EQUIPMENT ROUGH-IN DIAGRAMS. -VERIFY WITH EQUIP. SUPPLIER.
 - 4. COORDINATE EXACT LOCATION & TYPE OF ALL REQUIRED DRAINS W/ PLUMBING PLANS
 - 5. FINISH FLOOR TO BE SLOPED TO FLOOR DRAINS AT KITCHEN/RESTROOM AREA. G.C. TO VERIFY EXACT TOP ELEVATION OF ALL PLUMBING FIXTURES PRIOR TO CONSTRUCTION
- BEARING WALL SYSTEM WITH LIGHT FRAMED SHEAR 6. IT IS THE CONTRACTOR'S OPTION TO USE EITHER THE MONOLITHIC SLAB METHOD OR THE WALL FOOTING METHOD
 - 7. PROVIDE SAWN CONTROL JOINTS 1/4 OF SLAB THICKNESS @ 17'-0" O. C. MAX. EACH DIRECTION.
 - 8. GC TO CONFIRM WITH THE BUILDING OFFICIAL THAT OVER HEAD POWER (IF BEING USED) DOES NOT ENCROACH THE EASEMENT OF THE POWER LINE AT THE REAR OF THE BUILDING.
 - 9. SEE SITE PLAN FOR GRADE CHANGES AND **REQUIRED FOOTING STEPS.**

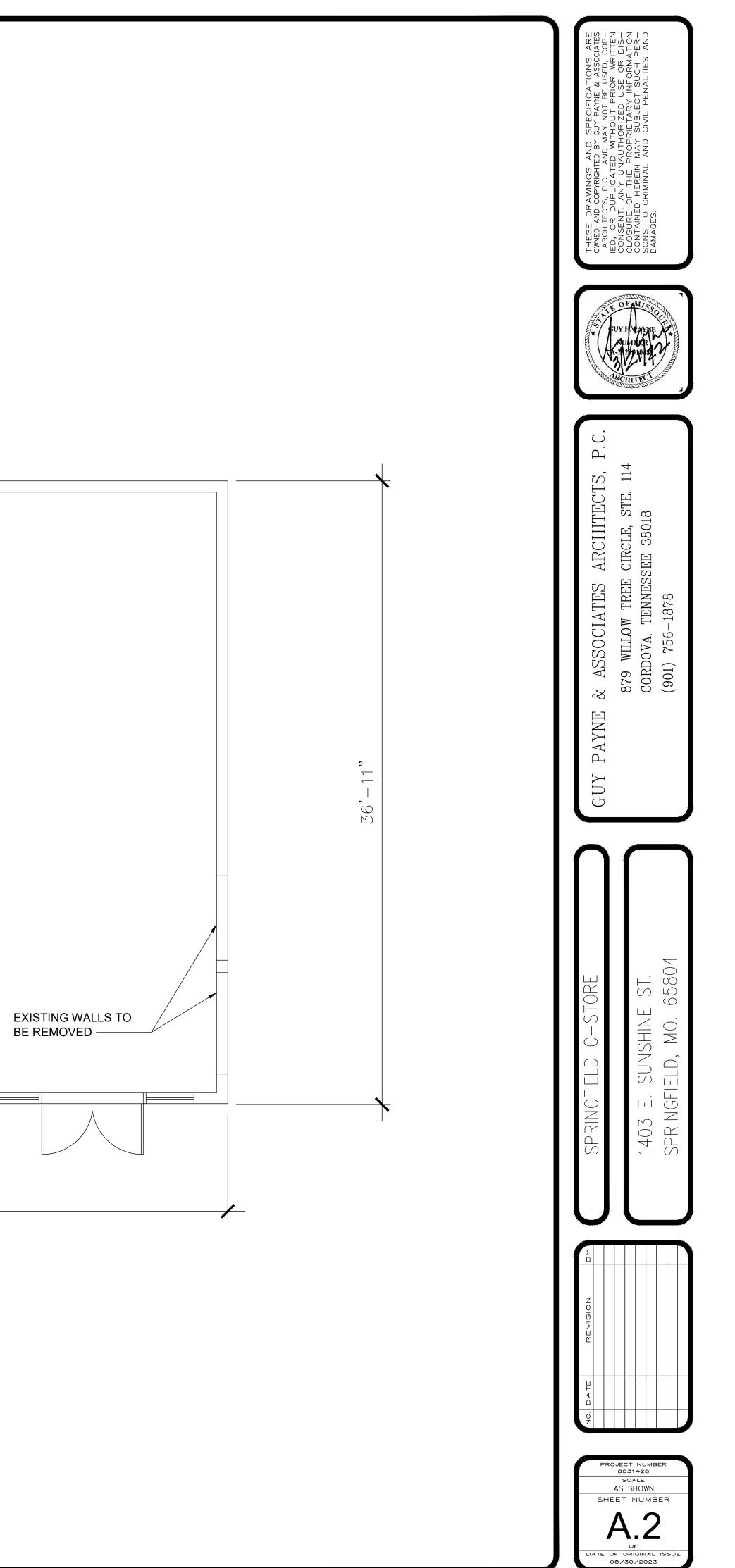
NOTE:

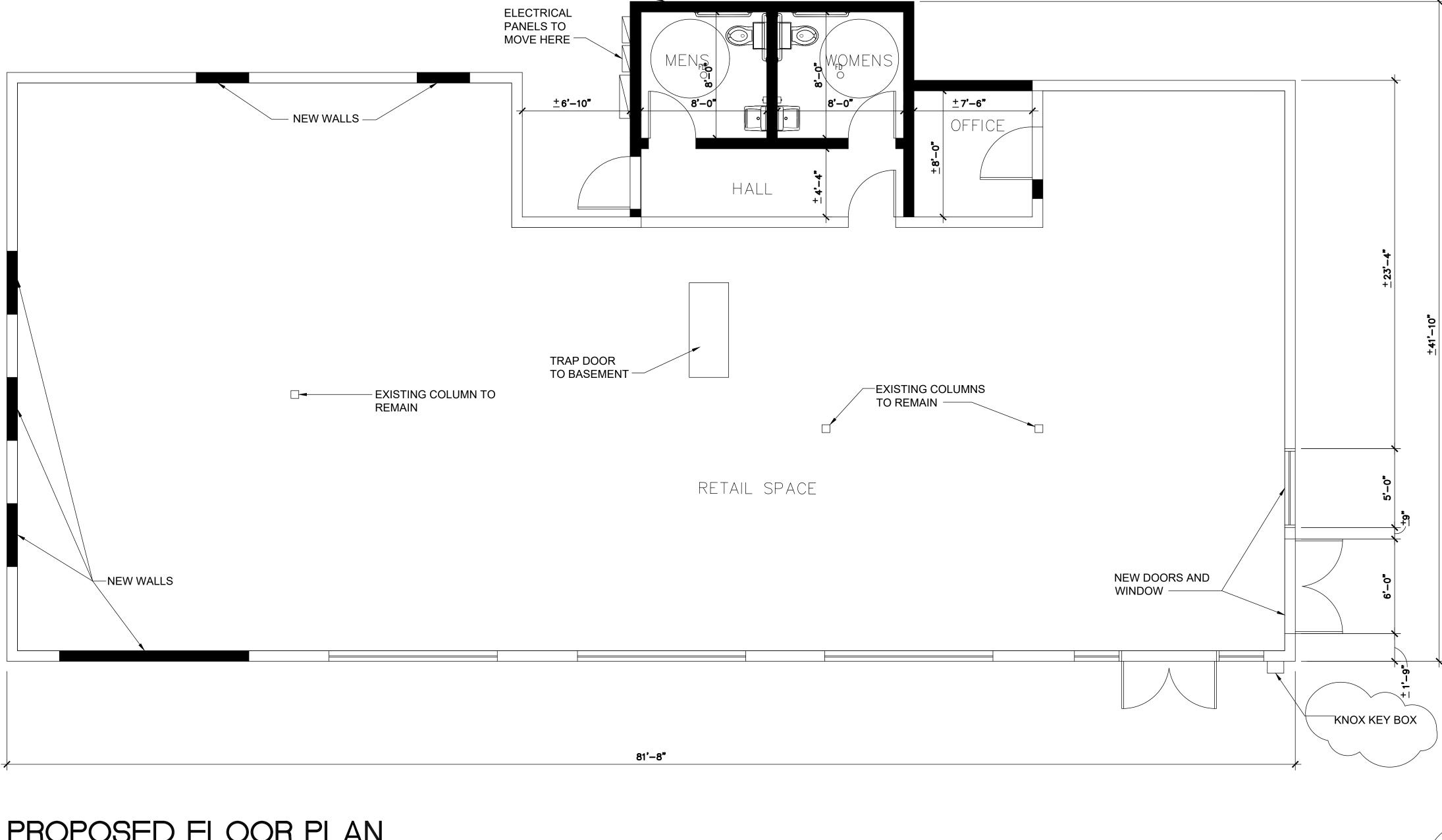
- 1. G.C. TO VERIFY LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO CONSTRUCTION
- 2. G.C. TO PROVIDE DOUBLE 2x4 BLOCKING FOR P.O.S MONITOR BRACKETS. G.C. TO SECURE TO TRUSSES PER P.O.S VENDOR DIRECTION.
- 3. THE STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH SECTION 1609, CHAPTER 16 OF THE (2018) IBC. (ASCE 7-98 FOR 100 MPH WIND)
- WE WILL PROV SOIL BEARING CAPACITY ON SITE, TO A MIN. OG 1,500 PSF

R H N C PARC PAR AUMULA -212 19 10 8 പ $\overline{}$ \mathcal{O} CIRCLE, STE. SEE 38018 ARCHITEC' \odot ASSOCIATES 79 WILLOW TREE ORDOVA, TENNES 06 - 0 $\overset{\sim}{\sim}$ 되 \mathbf{Z} \geq \triangleleft പ \square Ċ \bigcirc 4 Č 8031428 SCALE AS SHOWN SHEET NUMBER Α.

> DATE OF ORIGINAL ISSU 08/30/2023







NEW WALLS

PROPOSED FLOOR PLAN 1/4"=1'-0"

CONSTRUCTION KEY NOTES

- DIMENSIONS ARE SHOWN: 1) EXTERIOR WALLS: FROM INTERIOR FACE OF GYPSUM BOARD TO THE EXTERIOR FACE OF PLYWOOD. 2) INTERIOR WALLS: FROM THE FACE OF FINISH WALL TO THE FACE OF FINISH WALL, U.N.O..
- 2 INSTALL 3'-0" W X 8'-0" H X 18 GA STAINLESS STEEL PANEL BEHIND OVENS AND FRYERS. S/S SHALL EXTEND 18" BESIDE EQUIPMENT. REFER TO INTERIOR KITCHEN ELEVATIONS AND EQUIPMENT PLAN FOR LOCATIONS.
- 3 ALL GYPSUM WALL BOARD BELOW FINISHED CEILING HEIGHT IS TO BE PREPARED FOR PAINTING OR WALLCOVERING AS INDICATED ON INTERIOR ELEVATIONS AND FINISH SCHEDULE. SEE GEN. CONSTR. NOTES FOR DINING AREA
- 4 GENERAL CONTRACTOR (G.C.) TO PROVIDE 2"X2" FULL HEIGHT CORNER GUARDS ON ALL OUTSIDE CORNERS @ KITCHEN WALLS.
- 5 HOOD WALL TO BE CONSTRUCTED WITH $3\frac{5}{8}$ " 16 GAUGE (GA.) METAL STUDS @ 24" O.C.AND $\frac{1}{2}$ " DURAROCK ON HOOD WALL SIDE.
- 6 ALL DOORS SHALL BE ABLE TO BE OPENED FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT, AND COMPLY WITH ALL CODES. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
- 7ALL GLAZING WITHIN A 24" ARC OF DOORS WHOSE BOTTOM IS LESS THAN 60" ABOVE THE FLOOR AND
ALL GLAZING IN DOORS SHALL BE SAFETY TEMPERED.
- 8 PROVIDE 1/2" MOISTURE RESISTANT GYPSUM WALL BOARD ON ALL INTERIOR KITCHEN WALL SURFACES FROM FINISHED FLOOR TO 24" ABOVE FINISHED FLOOR, UNO. PROVIDE 1/2" PLYWOOD FROM 24" AFF TO BEYOND CEILING ON ALL KITCHEN WALLS.
- 9 INSTALL THE HALF WALL FOR THE FRONT COUNTER AFTER THE KITCHEN EQUIPMENT HAS BEEN BROUGHT IN. PROVIDE 1/2" GYPSUM WALL BOARD ON THE SIDE FACING THE DINING. PROVIDE 1/2" PLYWOOD WITH FRP ON THE SIDE FACING THE KITCHEN.

GENERAL CONSTRUCTION NOTES

GYPSUM BOARD / EXTERIOR SHEATHING NOTES:

- 1. EXTERIOR SHEATHING SHALL BE 1/2" EXTERIOR PLYWOOD NAILED IN ACCORDANCE WITH THE STRUCTURAL NAILING SCHEDULE.
- 2. 1/2" PLYWOOD TO BE INSTALLED ON ALL INTERIOR WALLS. ALL JOINTS ARE TO BE PROPERLY SECURED.
- 3. GYPSUM BOARD SHALL BE TYPE "MOISTURE RESISTANT" IN ALL AREAS TO RECEIVE WALL TILE OR FRP PANELS.
- 4. ALL WALLS TO RECEIVE 1/2" MOISTURE RESISTANT GYPSUM WALL BOARD INSTALLED TO 24" AFF UNO.

INSULATION NOTES:

1. ALL EXTERIOR WALLS TO RECEIVE FIBERGLASS BATT INSULATION TO MATCH DEPTH OF WALL CAVITY.

KITCHEN WALL NOTES:

1. PROVIDE 1/2" PLYWOOD FROM 24" AFF TO 9'-6" AFF IN ALL KITCHEN WALLS.

2. PROVIDE 1/2" GYPSUM WALL BOARD FROM 24" AFF TO 5'-6" AFF AT INTERIOR TOILET ROOM WALLS.

BLOCKING NOTES:

1. "XXXXXXX" INDICATES BLOCKING REQUIRED IN WALL FOR PLUMBING LINES AND RESTROOM ACCESSORIES. BLOCKING SHALL BE FIRE RETARDANT WHERE REQUIRED BY CODE.

2. CONTRACTOR TO VERIFY REQUIREMENTS WITH LOCAL BUILDING OFFICIALS PRIOR TO BIDDING. CONTRACTOR IS RESPONSIBLE FOR OBTAINING MANUFACTURS' CUT SHEETS AND LOCATING BLOCKING AS REQUIRED. THIS INCLUDES KITCHEN EQUIPMENT AND ITEMS FURNISHED AND INSTALLED BY OTHERS.

FRAMING NOTES:

1. CONTRACTOR MAY SUBSTITUTE METAL STUDS FOR INTERIOR WALL, AND SOFFIT FRAMING IF REQUIRED. WHERE USED, METAL FRAMING TO BE 25 GA. UNLESS OTHERWISE SPECIFIED(U.N.O.).

2. REFER TO FRAMING NOTES FOR WALL SECTIONS.

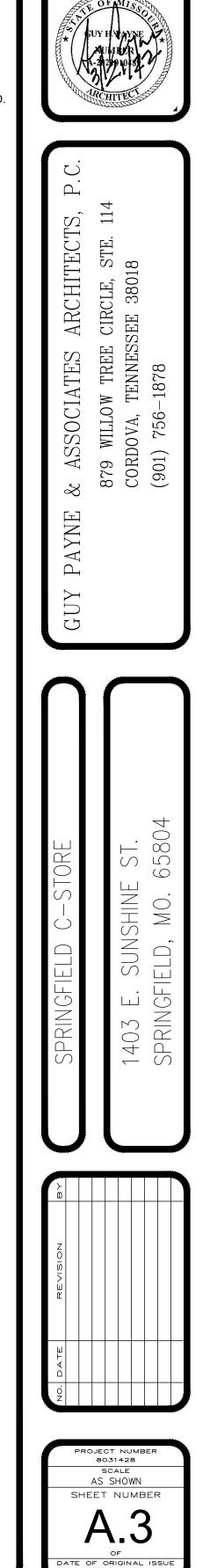
3. ALL INTERIOR WOOD FRAMING TO BE #2 SPRUCE, FIR OR WHITE PINE. WHERE REQUIRED BY CODE, FRAMING SHALL BE #2 FIRE RETARDANT YELLOW PINE. CONTRACTOR TO VERIFY REQUIREMENTS WITH LOCAL BUILDING OFFICIALS PRIOR TO BIDDING.

- 4. ALL WOOD IN CONTACT WITH THE SLAB MUST BE PRESSURE TREATED.
- 5. ALL INTERIOR WALLS TO BE FRAMED TO UNDERSIDE OF TRUSS U.N.O..
- GENERAL NOTES:

1. MOVEABLE APPLIANCES SHALL BE PROVIDED A MEANS FOR CORRECT ALIGNMENT WITH THE DISCHARGE NOZZLES. (2017 NFPA 17A 5.6.4)

2. EXTINGUISHER OF 1.5 GALLONS IS REQUIRED FOR UP TO 30 FT. OF TRAVEL DISTANCE FROM COOKING EQUIPMENT. (2008 IFC 906)

3. INSTALL A KNOX KEY BOX FOR THE BUILDING IN THE IMMEDIATE VICINITY OF THE MAIN ENTRANCE AT 5' ABOVE FINISHED FLOOR. SEE FLOOR PLAN.

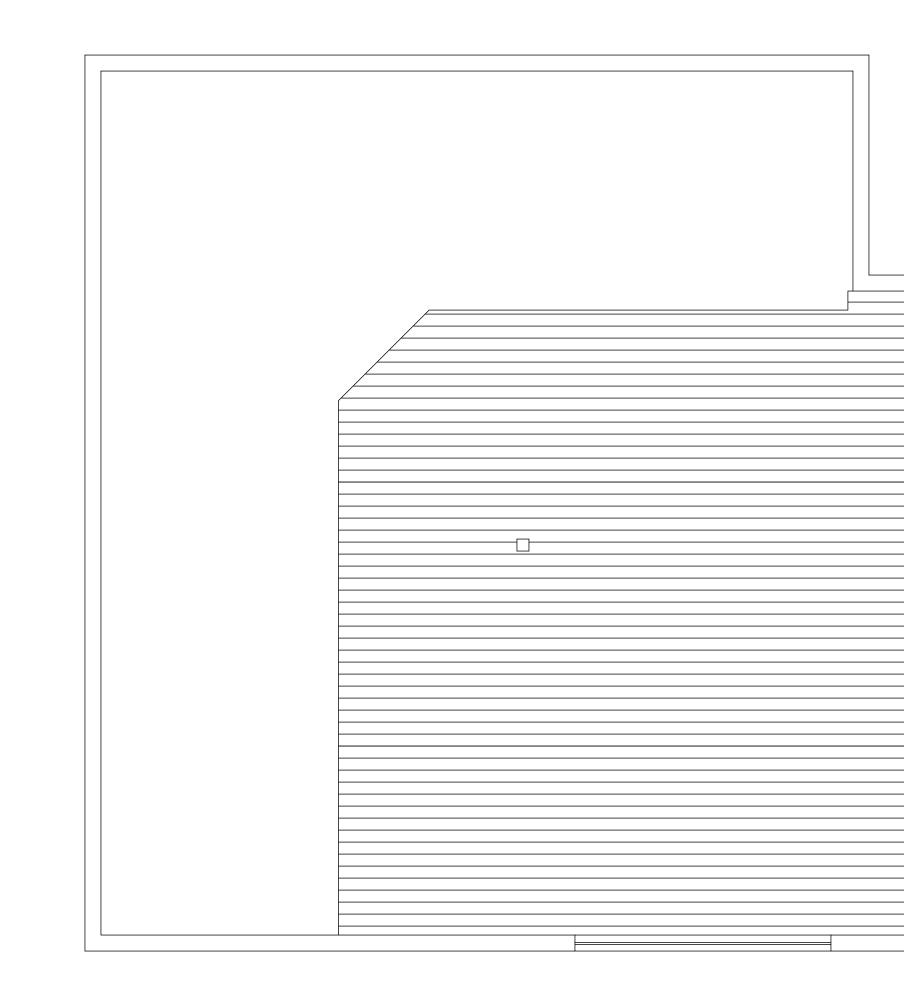


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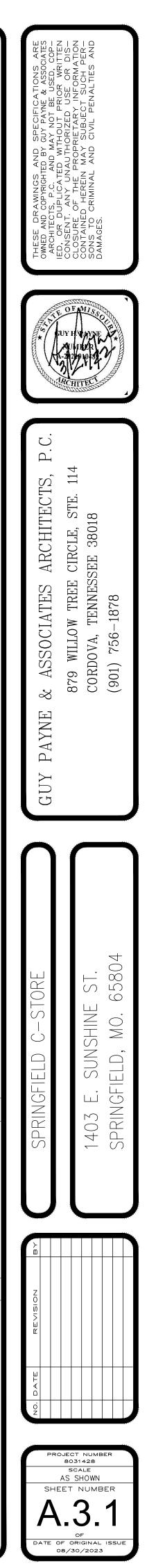


FINISH FLOOR PLAN 1/4"=1'-0"

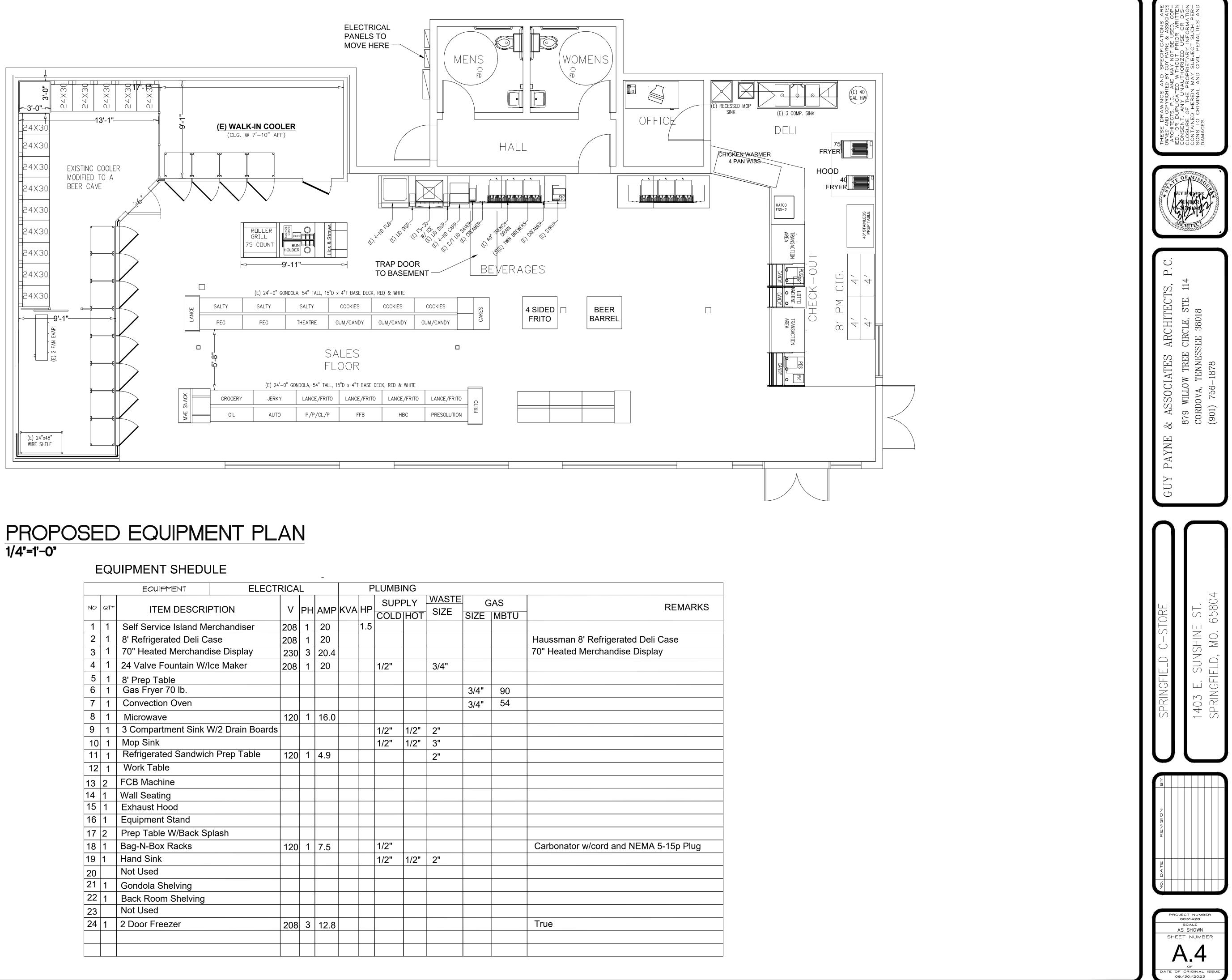
1. STOREFRONT: AL. FRAME AS MANUFACTURED BY VISTAWALL, SERIES PER GLAZING REQMTS., 2" X 4 1/2", FRONT LOADED SYSTEM, w/ CLEAR ANODIZED ALUMINUM FINISH, ALTERNATE AND EQUIVALENT STOREFRONT		
FRAME AS MANUFACTURED BY U.S. ALUMINUM OR OTHER AS APPROVED. ALL GLAZING SHALL BE MULLIONLESS BUTT JOINTED UNLESS OTHERWISE SHOWN.	- INTERIOR FINISHES	MERCHANDISING AREA/CASHIER
2. STOREFRONT GLAZING SHALL BE 1" CLEAR TEMPERED GLASS. (TYP.) w/ MULLIONLESS BUTT JOINTS PER EXTERIOR ELEVATIONS U.O.N.	FLOOR	PT-1 DAL TILE 6x24 WBO2 PT-2 DAL TILE 7x20 EM03
 GLAZING AT ENTRY DOOR SYSTEM SURROUND (BETWEEN PILASTERS) SHALL BE 1" CLEAR INSULATED IN 4-1/2" CLEAR ANODIZED ALUMINUM FRONT LOADED FRAME TO MATCH STOREFRONT. SIDE LIGHTS & SPANDREL TRANSOMS TO BE TEMPERED. 	BASE	PT-2 DAL TILE 7x20 EM03
4. ALL 1" INSULATED SPANDREL GLASS TO BE TEMPERED.	WALLS	CERAMIC TILE OVER 1/2" DUROCK OR EQUIVALENT TILE BACKER BOARD
 VERIFY ALL ROUGH OPENING SIZES IN FIELD PRIOR TO FABRICATION GLAZING AND STOREFRONTS SHALL CONFORM TO LOCAL WIND LOAD REQUIREMENTS. 	CEILING	2'x4' SUSP. A.C.T.
	CEILING HEIGHT	12'-0"

	PT-1 PT-1
PT-1	

		ROOM	I FINISH SCHEDUL	E		
PUBLIC RESTROOMS	UTILITY	BEER CAVE	WALK-IN COOLER	OFFICE	QSR KITCHEN	
PT-2 DAL TILE 7x20 EM03	AMERICAN OLEAN-QUARRY TILE-QT-1 SURE STEP- Q12 RED 6"x6"	EXCELON 12"X12" VINYL TILE 'IMPERIAL' , #51899 COOL WHITE	CONCRETE W/CLEAR SEALER	AMERICAN OLEAN SURE STEP- Q12 RED 6"x6"	AMERICAN OLEAN SURE STEP- Q12 RED 6"x6"	
PT-2 DAL TILE 7x20 EM03	AMERICAN OLEAN SURE STEP- Q12 RED 6"x6"	4" VINYL COVE, LIGHT GRAY	BY COOLER MFR. CERAMIC TILE COVE BASE	AMERICAN OLEAN SURE STEP- Q12 RED 6"x6"	AMERICAN OLEAN SURE STEP- Q12 RED 6"x6"	
CERAMIC TILE OVER 1/2" DUROCK OR EQUIVALENT TILE BACKER BOARD	PAINTED SMOOTH FINISH 5/8" GYPBOARD, M & F.R.P. FULL HEIGHT.	OPSINK w/ M.R. GYPBOARD	BY COOLER MFR	PAINTED SMOOTH FINISH 5/8" GYP BOARD	MARLITE FRP PANELS COLOR: P151 LIGHT GRAY, WITH MATCHING P\	VC MO
GYP. BD PAINTED	2'x4' SUSP. A.C.T.	2'x4' SUSP. A.C.T.	BY COOLER MFR	2'x2' SUSP. A.C.T.	CEILING: ARMSTRONG "TUNDRA" 2932, VINYL F. FOIL-BACKED, 24" X 48" X 1". SUSPENSION SYS ARMSTRONG "PRELUDE", 15/16". ALT: US GYPS	STEM:
8'-0"	8'-4"	8'-0"	BY COOLER MANUFACTURER	10'-0"	8'-4"	8'-0

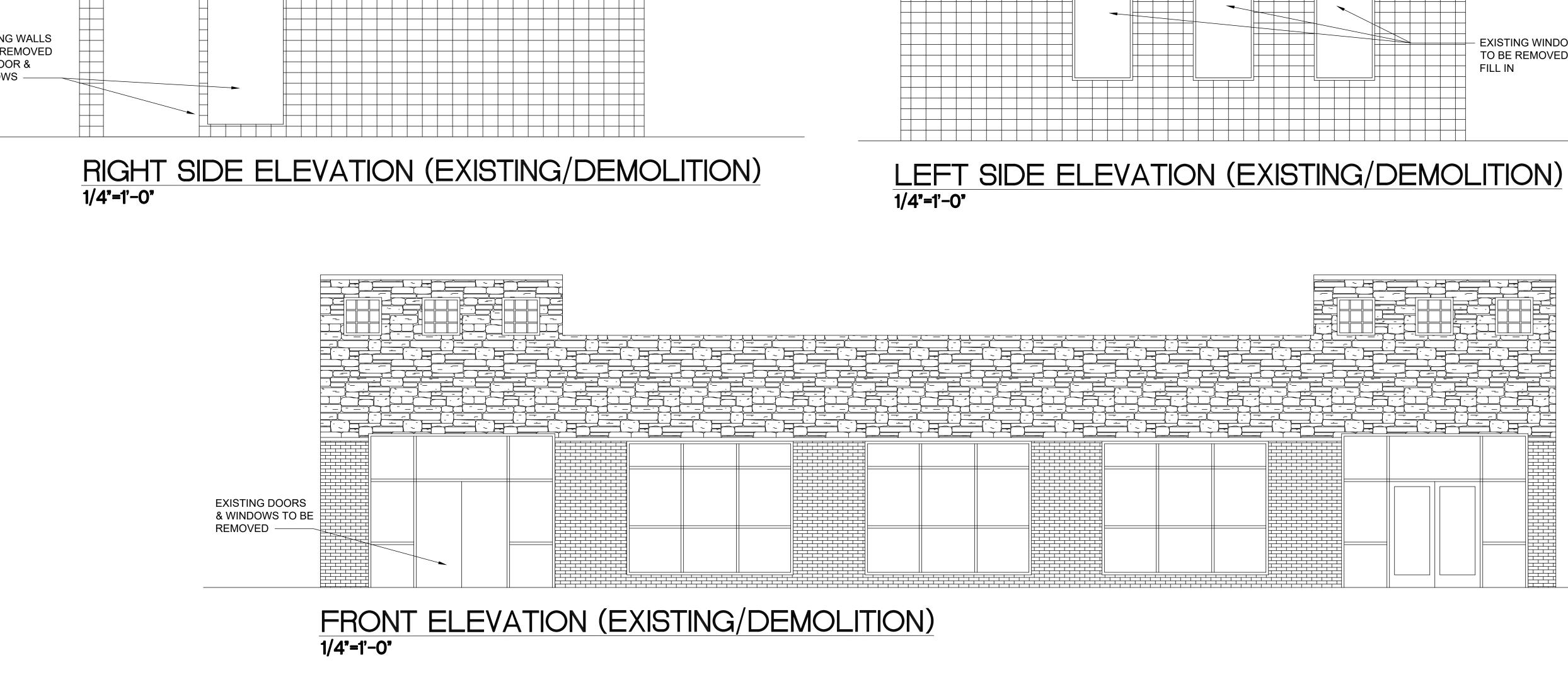


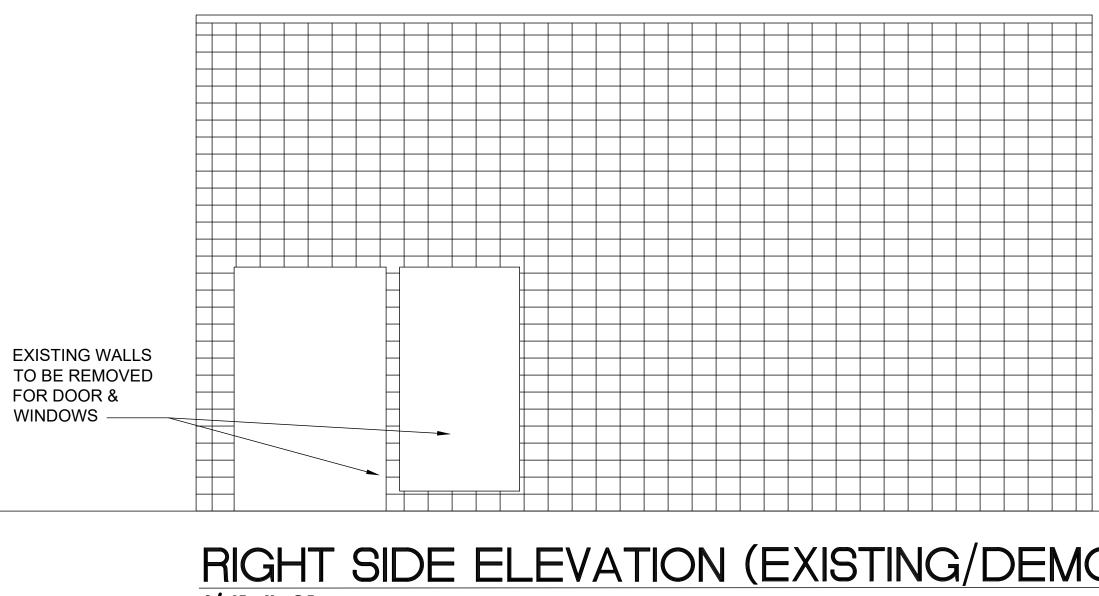
			-IELD C-SIUK		
	FLOOR PLAN NOTES	- (NGF		
	 ALL CABINETS SHOWN ARE OF METAL CONSTRUCTION, N.S.F. APPROVED, W/ REMOVABLE ACCESS TO FLOOR SINKS MOUNTED ON 6" HIGH METAL LEGS. ALL CABINETS BY OTHERS U.O.N. 3 1/2" ACOUSTIC BATT INSULATION REQUIRED IN ALL RESTROOM WALLS AND CEILING. EXTERIOR WALL DIMENSIONS ARE TO FACE OF STUD, INTERIOR PARTITION DIMENSIONS ARE TO FACE OF STUD U.N.O. FLOOR SINK DIMENSIONS ARE FROM FACE OF SLAB U.N.O. ALL SEALANT TO BE PAINTABLE. 		SPRINGFIE		
	 5 ALIGN CONC. JOINTS W/ TILE LAYOUT. FOR TILE LAYOUT AND SPECIFICATIONS, SEE SHEET A07. 6 FOR WALK-IN COOLER SPECIFICATIONS, SEE COOLER MFGR 		-		Ņ
	 ALL DOORS, DOOR FRAMES AND HARDWARE ARE AVAILABLE FROM UNIVERSAL MANUFACTURING CO. ALL WOOD FRAMING MEMBERS IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED DOUGLAS FIR U.O.N. TYP. 				
	WALL TYPES LEGEND		z		
QSR STORAGE	3-5/8" MTL. STUDS W/ 5/8" GYP. BD. EA. SIDE		REVISION		
	8" CONCRETE BLOCK				
LDINGS NON-PERFORATED	3 1/2" INSULATED COOLER WALL				_
(15/16") (15/16"))"		ſ		ROJECT 8031 SCZ AS SI	



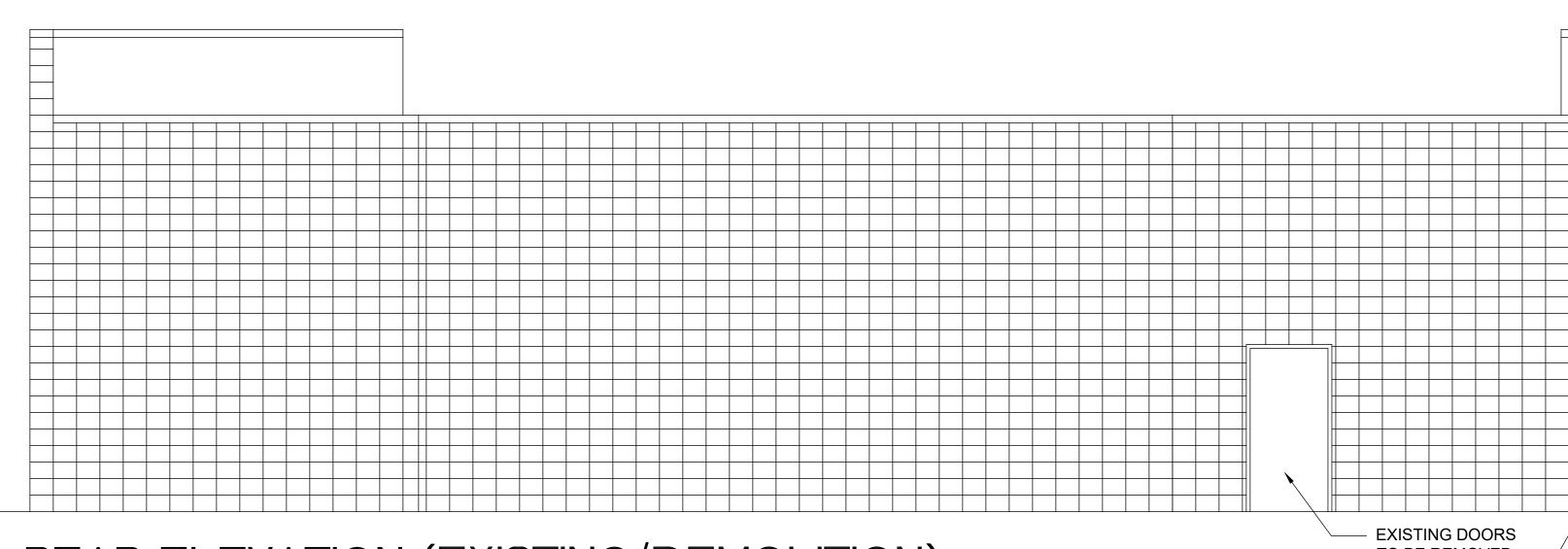
PROPOSED EQUIPMENT PLAN

		EOUIPMENT	ELECT	RICA	L			F	PLUMBI	NG				
									SUPI	PLY	WASTE	G	SAS	
NO	QTY	ITEM DESCRIF	V	PH	AMP	KVA	HP	COLD	HOT	SIZE	SIZE	MBTU	REMARKS	
1	1	Self Service Island Me	208	1	20		1.5							
2	1	8' Refrigerated Deli Ca	ase	208	1	20								Haussman 8' Refrigerated Deli Case
3	1	70" Heated Merchandi	ise Display	230	3	20.4								70" Heated Merchandise Display
4	1	24 Valve Fountain W/I	ce Maker	208	1	20			1/2"		3/4"			
5	1	8' Prep Table												
6	1	Gas Fryer 70 lb.										3/4"	90	
7	1	Convection Oven										3/4"	54	
8	1	Microwave		120	1	16.0								
9	1	3 Compartment Sink V	V/2 Drain Boards						1/2"	1/2"	2"			
10	1	Mop Sink							1/2"	1/2"	3"			
11	1	Refrigerated Sandwich	h Prep Table	120	1	4.9					2"			
12	1	Work Table												
13	2	FCB Machine												
4	1	Wall Seating												
15	1	Exhaust Hood												
16	1	Equipment Stand												
17	2	Prep Table W/Back Sp	olash											
18	1	Bag-N-Box Racks		120	1	7.5			1/2"					Carbonator w/cord and NEMA 5-15p Plug
9	1	Hand Sink							1/2"	1/2"	2"			
20		Not Used												
21	1	Gondola Shelving												
22	1	Back Room Shelving												
23		Not Used												
24	1	2 Door Freezer		208	3	12.8								True

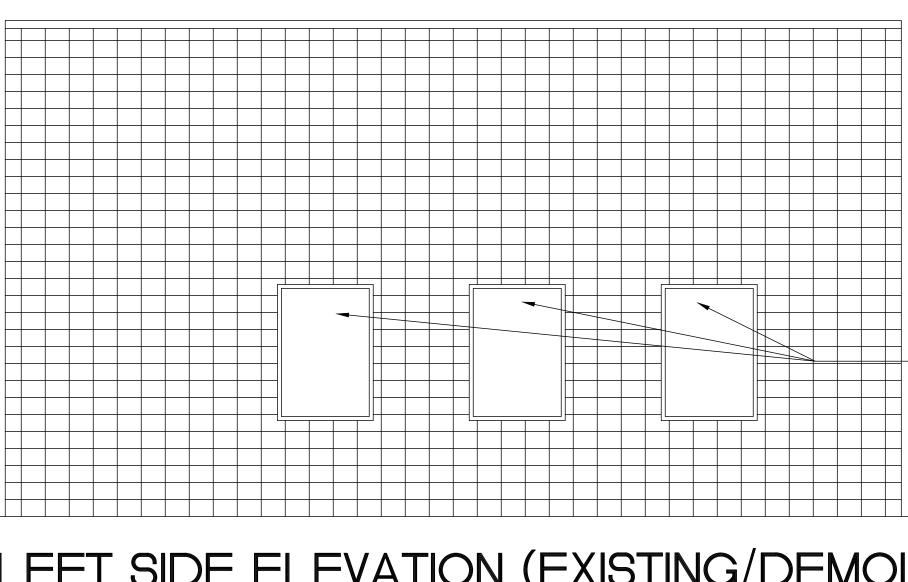






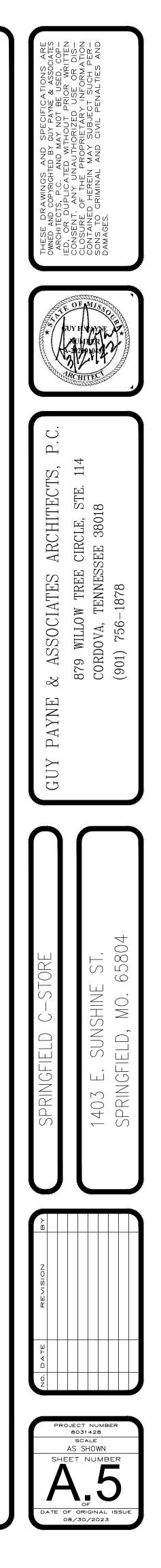


TO BE REMOVED -



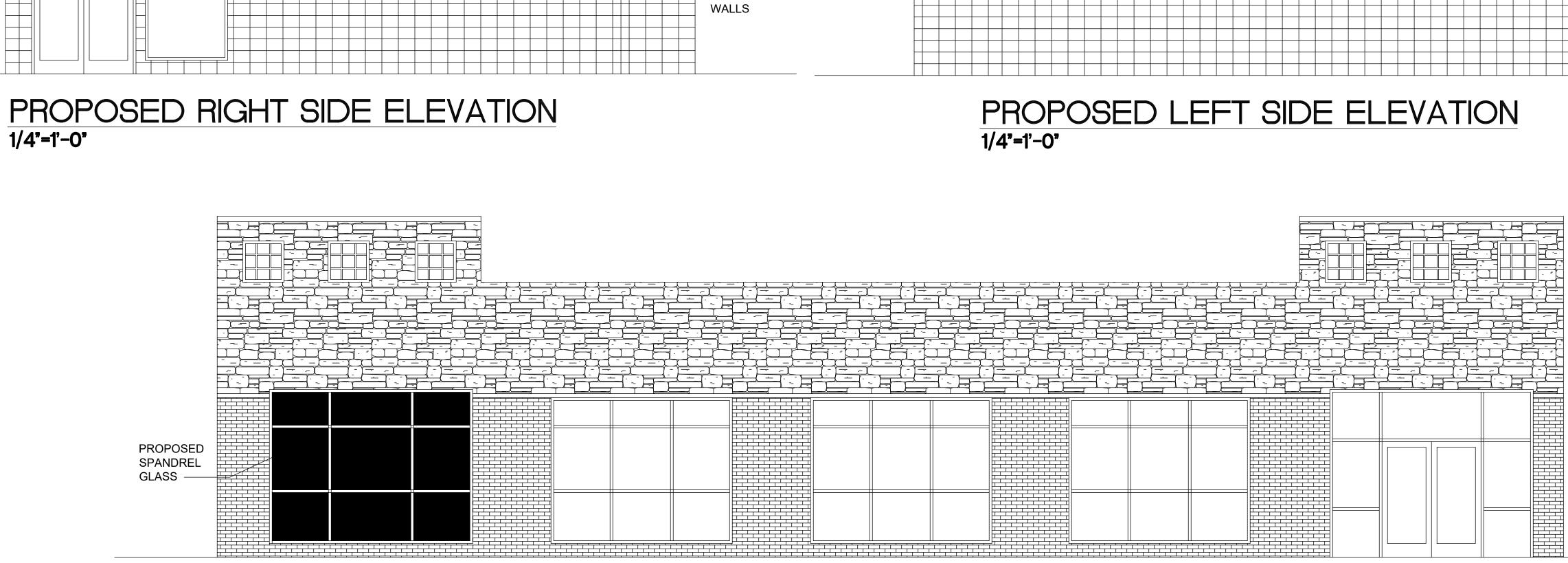
- EXISTING WINDOWS TO BE REMOVED TO

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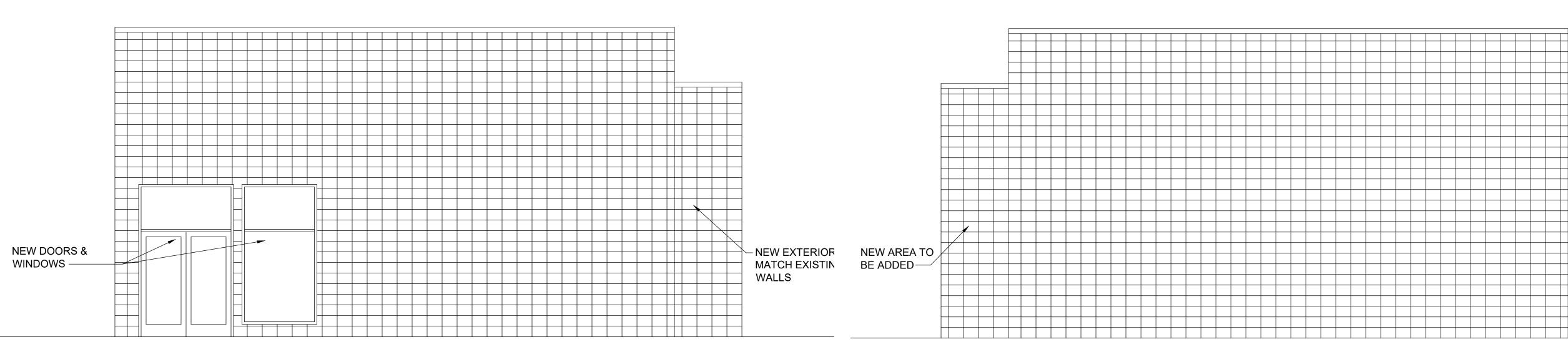


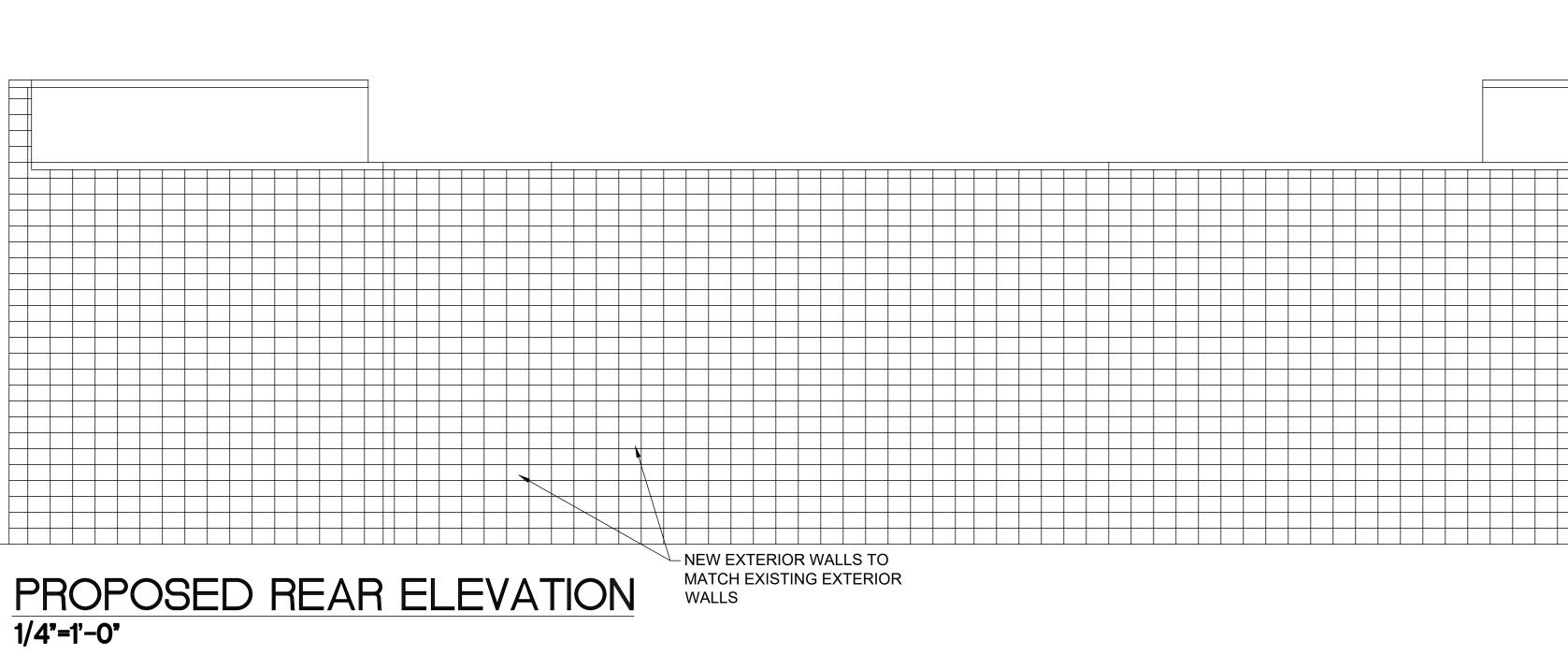


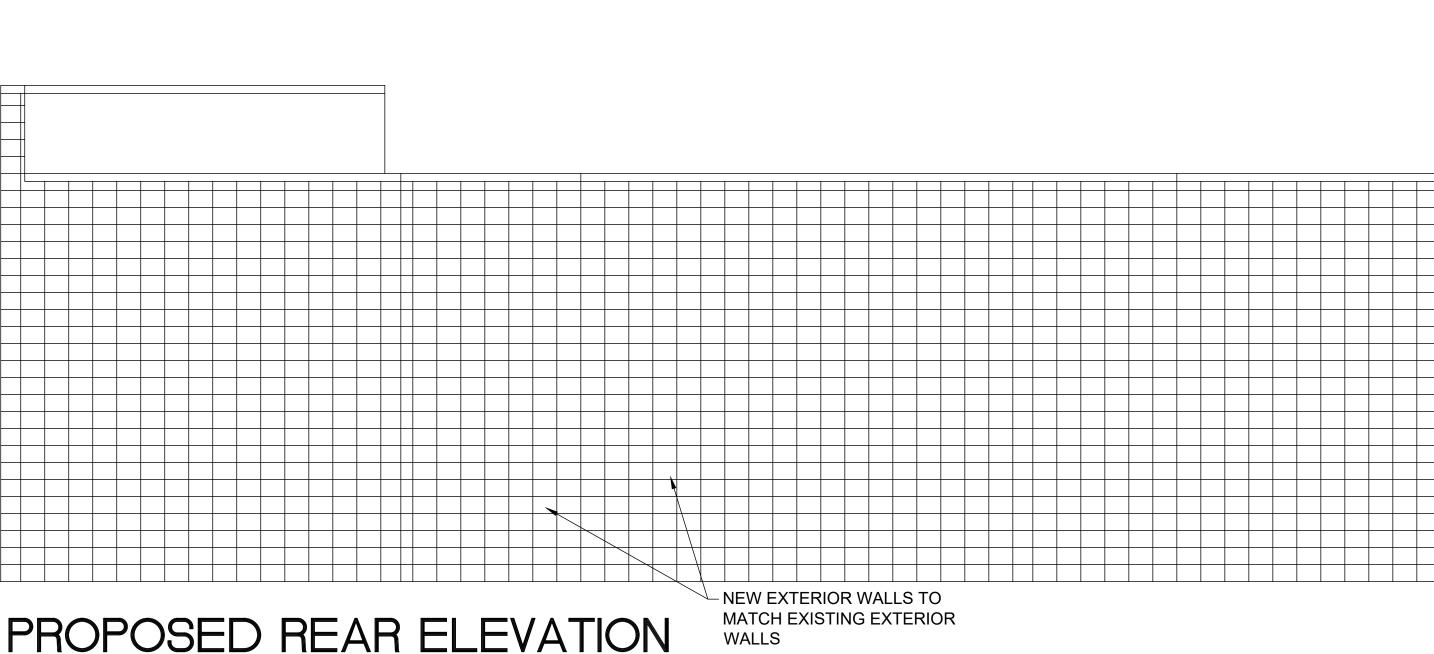
PROPOSED SPANDREL GLASS



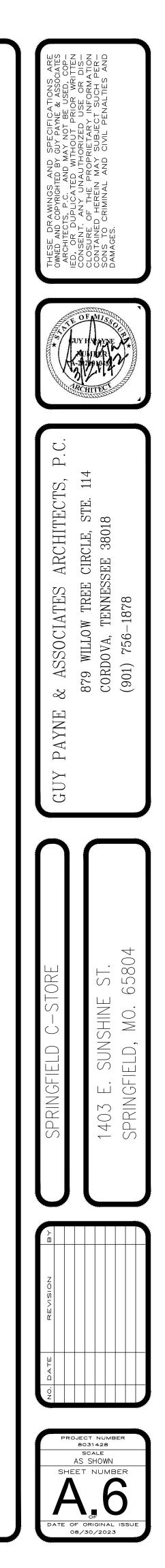


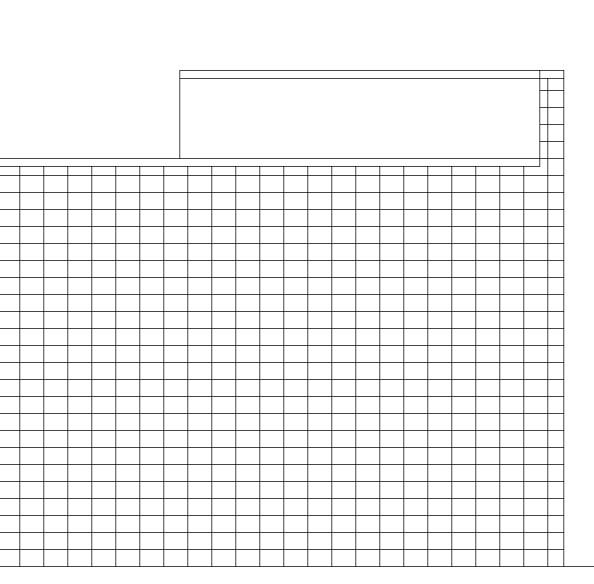


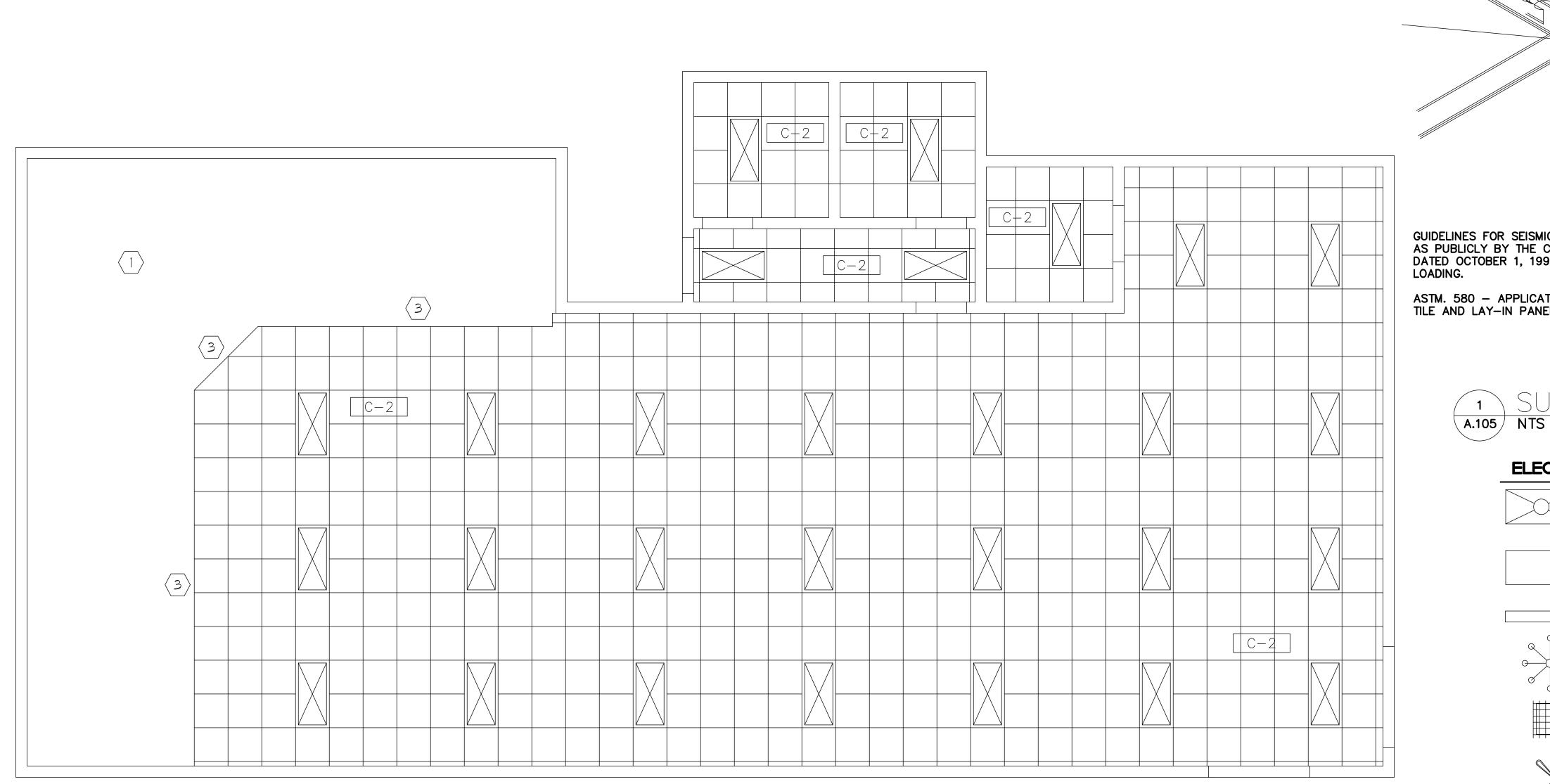




PROPOSED FRONT ELEVATION

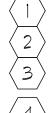






REFLECTED CEILING PLAN 1/4"=1'-0"





CEILING PROVIDED BY COOLER/FREEZER MANUFACTURER.

START POINT FOR CEILING GRID.

COOLER WALL BULKHEAD CONSTRUCTION TO BOTTOM OF STRUCTUR

ABOVE, REFER TO DETAIL A1.4-02.

 $\langle 4 \rangle$ I" REVEAL. REFER TO DETAIL A1.4-04.

GENERAL NOTES:

A. FOR LIGHTING SPECS, REFER TO ELECTRICAL DRAWINGS. B. DIMENSIONS ON REFLECTED CEILING PLAN ARE SHOWN FROM FACE OF

WALL FINISH, UNLESS NOTED OTHERWISE.

- C. CEILING HEIGHTS ARE NOTED FROM FINISHED FLOOR U.N.O.
- D. LOCATE FIRE BLOCKING IN WALL AT CEILING LINE OF ALL FRAMED

WALLS.

CEILING FINISH:

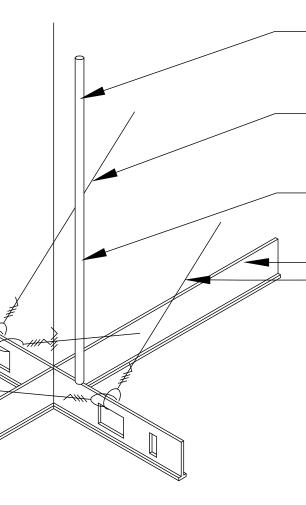
C-1	1/2" GYPSUM CEILING BOARD OVER 3 5/8" METAL STUDS
C-2	ARMSTRONG FF-1729 ACOUSTICAL 24"x24"x5/8" LAY-IN TILE.
	COLOR: PRE-FINISHED WHITE SUPPLIED AND INSTALLED BY G.C. "T" BAR GRID SUPPLIED AND INSTALLED BY G.C. TO MATCH LAY-IN TILE.
C - 3	ARMSTRONG NON-PERFORATED VINYL FIRE GUARD #870 24"x48"x5/8"

C-3ARMSTRONG, NON-PERFORATED VINYL. FIRE GUARD #870. 24"x48"x5/8"SQUARE EDGE LAY-IN FIRE GUARD WITH WHITE ALUMINUM GRID. COLO WHITE. SUPPLIED BY G.C. INSTALLED BY G.C.

PAINT FINISH:

PT-1	SHERWIN WIL
PT-2	SHERWIN WIL 2" BAND ABO\
PT-3	SHERWIN WIL
PT-4	SHERWIN WIL
PT-5	SHERWIN WIL

 \square



(USE BACK TO BACK 1 1/2" COLD ROLLED CHANNELS FOR SPANS GREATER THAN 4'-0".)

12 GA. HORIZONTAL SEISMIC RESTRAINTS SPLAYED 90° FROM EACH OTHER @ 12'-0" O.C. BOTH WAYS TO WITHIN 6'-0" OF WALLS

EMT COMPRESSION STRUT NOT TO EXCEED 1:6 OUT OF PLUMB: SEE SCHEDULE

CROSS RUNNER

-12 GA. SPLAYED WIRE BRACING PERPEN-DICULAR TO EACH RUNNER 8" MAX FROM EACH END OR BREAK TO PREVENT SPREADING MAIN RUNNER

ALL HANGERS & SUPPORTS TO BE ATTACHED WITH 4 TURNS IN 1/2" (TYP.) SUPPORT EACH LIGHT FIXTURE INDEPENDENTLY OF CEILING GRID WITH 1-#12 WIRE AT TWO CORNERS DIAGONALLY ACROSS FROM ONE ANOTHER.

ALL MAIN AND CROSS TEES, THEIR SPLICES AND INTERSECTING CONNECTIONS SHALL BE ADEQUATE TO RESIST 72 Ibs. IN TENSION.

GUIDELINES FOR SEISMIC RESTRAINT - DIRECT HUNG SUSPENDED CEILING SYSTEMS AS PUBLICLY BY THE CEILINGS & INTERIOR SYSTEMS CONTRACTORS ASSOCIATION, DATED OCTOBER 1, 1991. COMPLY WITH REQUIREMENTS FOR APPLICABLE SEISMIC

ASTM. 580 - APPLICATION OF CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS IN AREAS REQUIRING SEISMIC RESTRAINT.

SUSPENSION SYSTEM DETAIL

ELECTRICAL / HVAC SYMBOLS

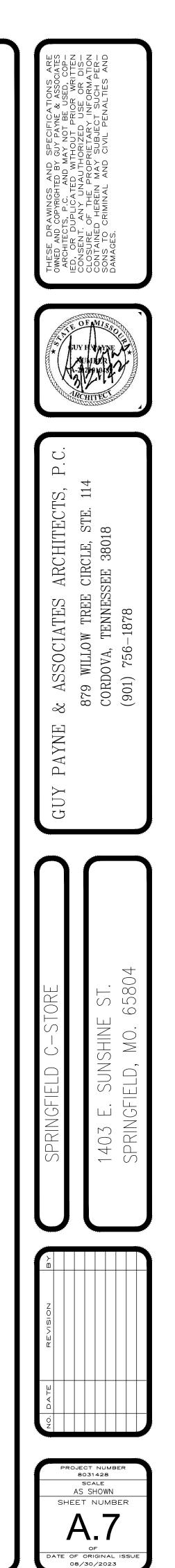
	,
K	2' x 4' RECESSED FLUOR. LIGHT FIXTURE
	2' x 4' RECESSED FLUOR. LIGHT FIXTURE W/ GYP. BD. TRIM KIT
	1' x 4' SURFACE-MOUNTED TRACK LIGHT FIXTURE
	CANDELLA LIGHT AS PER OWNER
	2'x2' RECESSED FLUORESCENT FIXTURE W/PARABOLIC LENS
	CEILING FAN-HUNTER DROP STYLE FAN W/5 BLADES WITH LIGHTS AS PER OWNER
\bigcirc	RECESSED COMPACT FLUORESCENT DOWNLIGHT
	RECESSED COMPACT LENS METAL HALIDE CAN LIGHT
\bigcirc	OCCUPANCY SENSOR
\otimes	ILLUMINATED EXIT SIGN
X	SURFACE-MOUNTED COOLER LIGHT
	LSI INTERLOCKING FLUORESCENT SINGLE LAMP FIXTURES

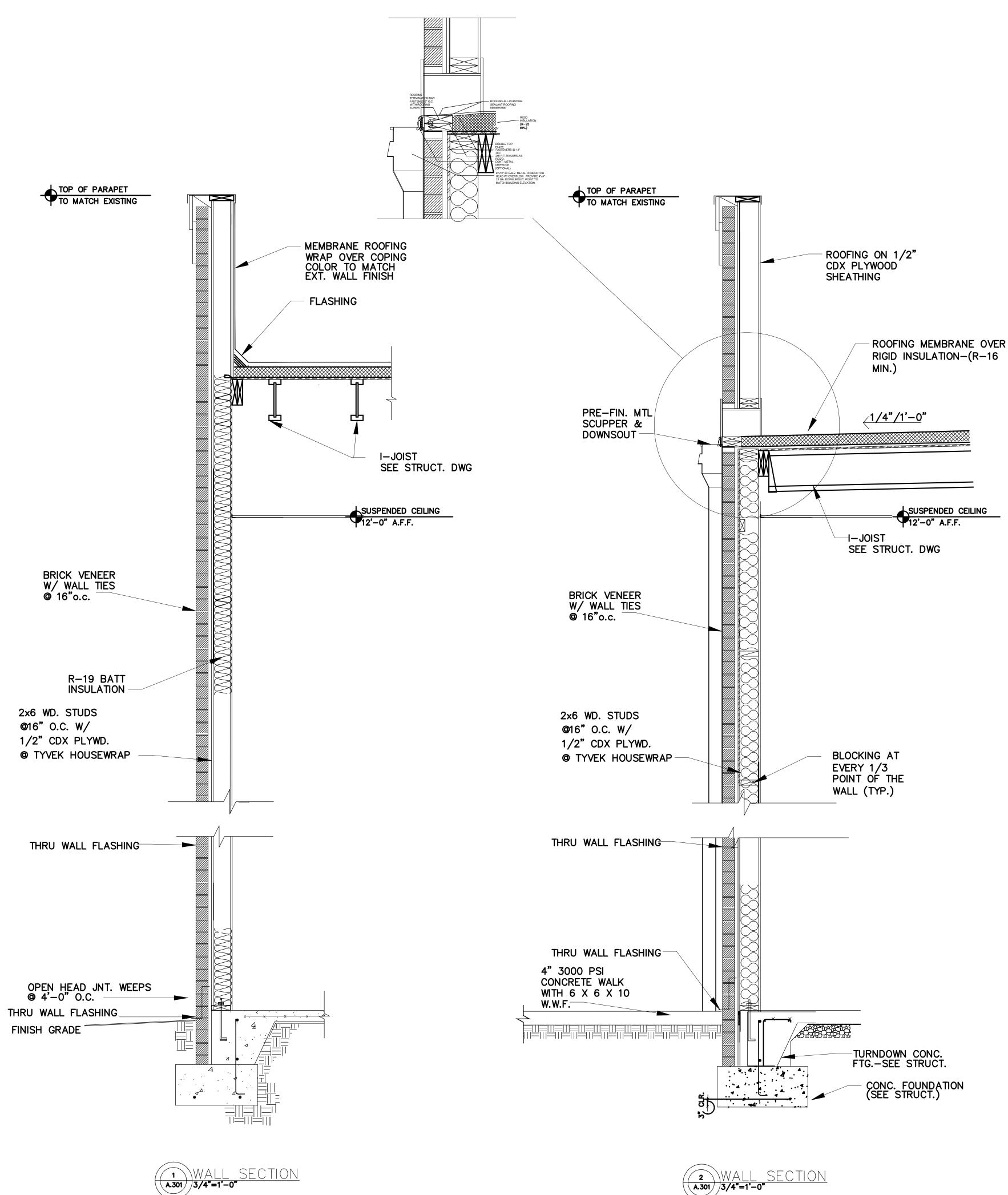
AIR SUPPLY GRILL AIR RETURN GRILL

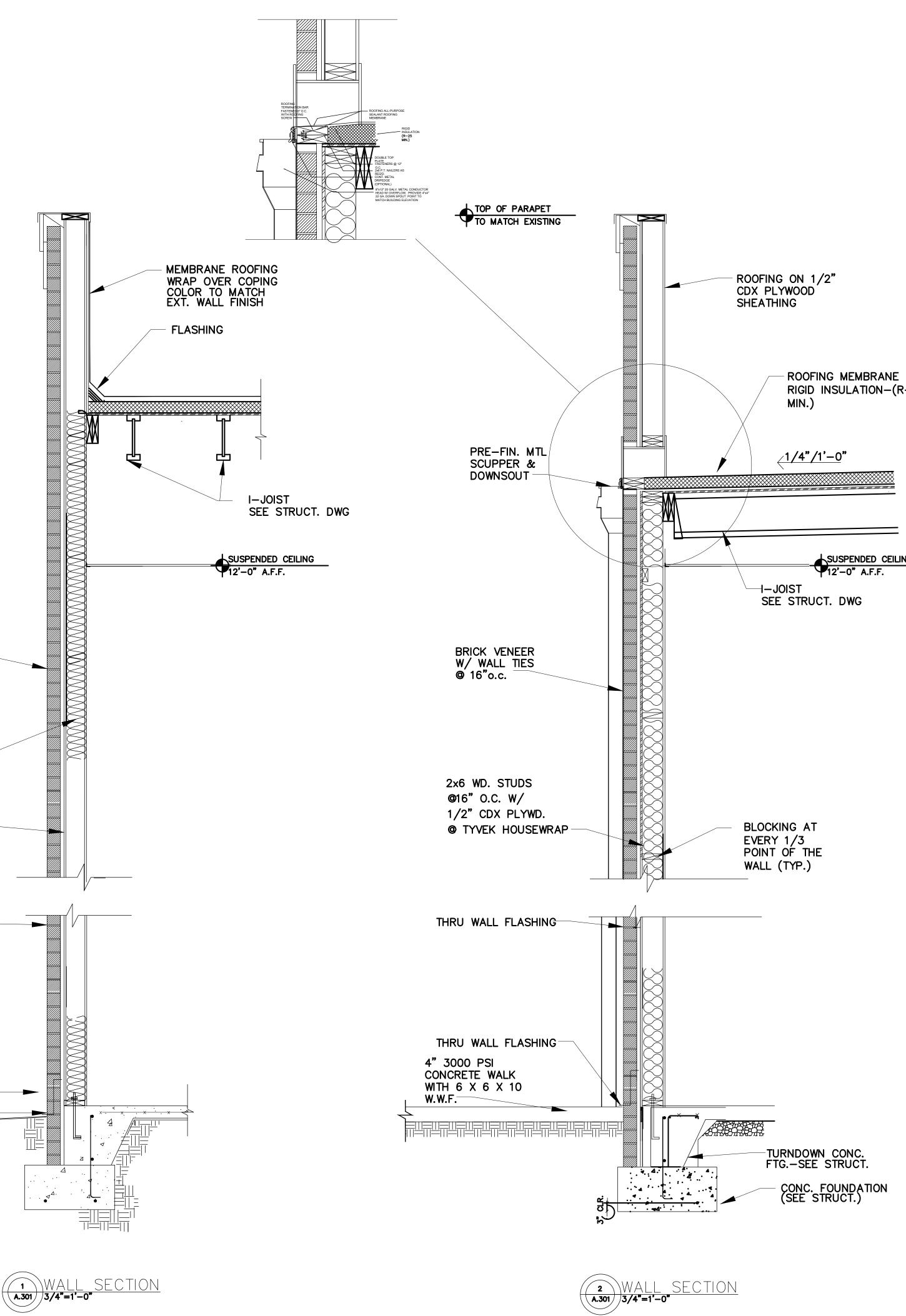
EXHAUST FAN

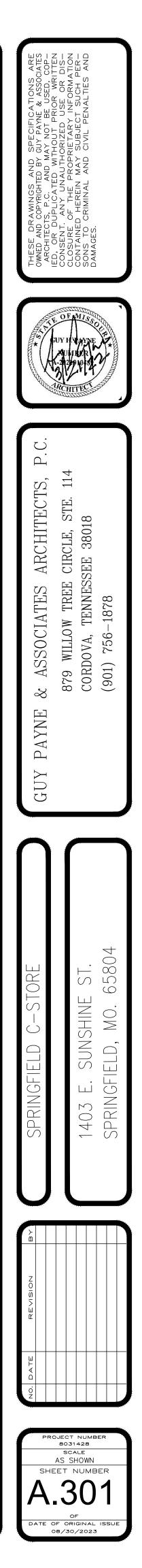
1. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. 2. EXISTING CEILING AND LIGHT FIXTURES ARE TO REMAIN EXCEPT AS SHOWN. REPAIR ALL EXISTING FIXTURES

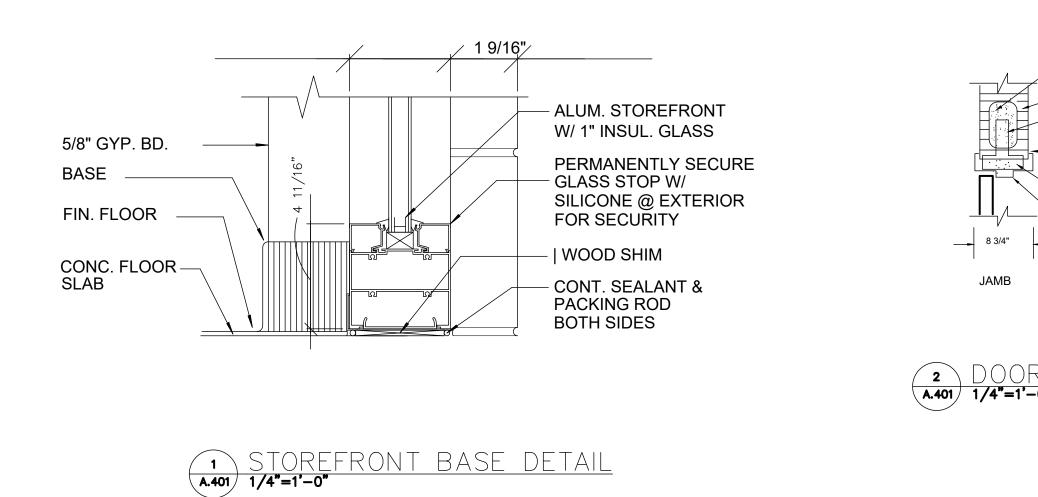
3. ALL DIMENSIONS ARE FROM FACE OF FINISH.

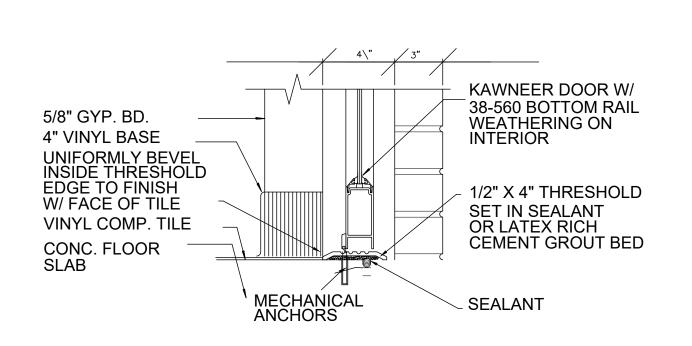






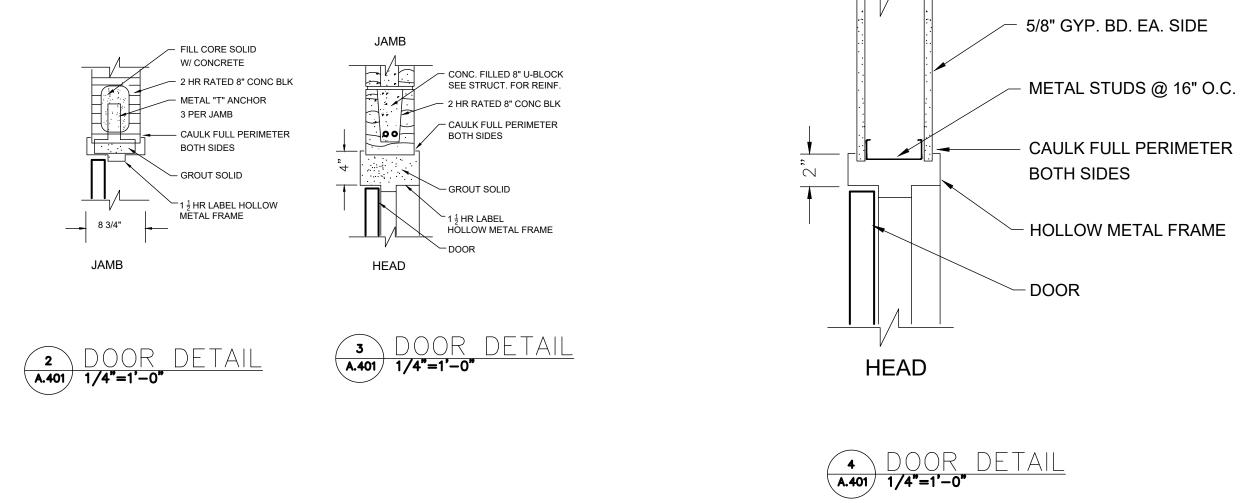


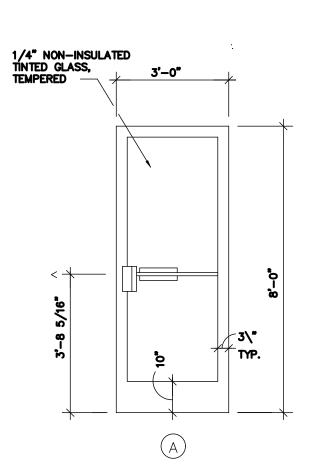


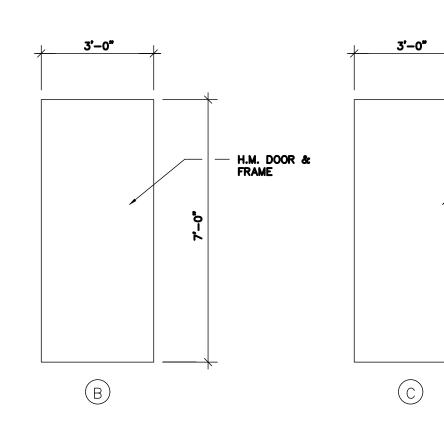






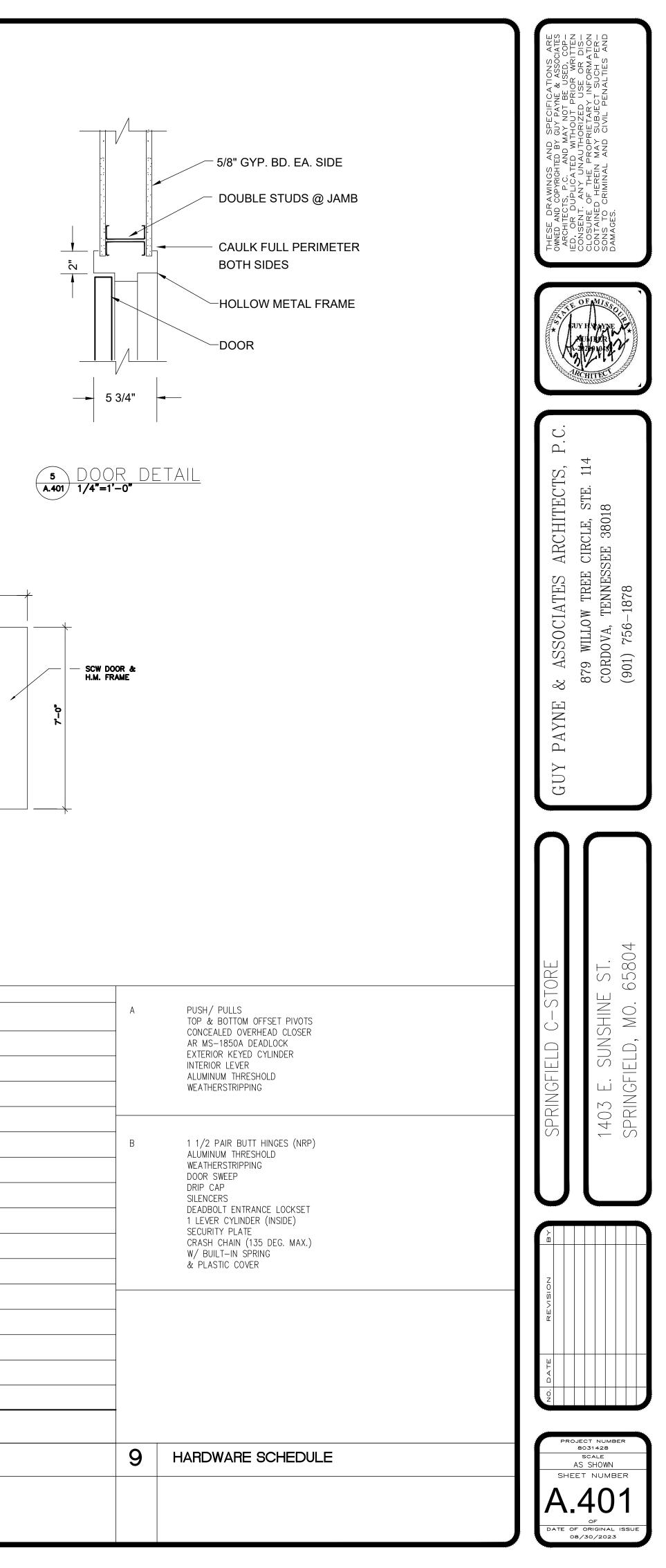


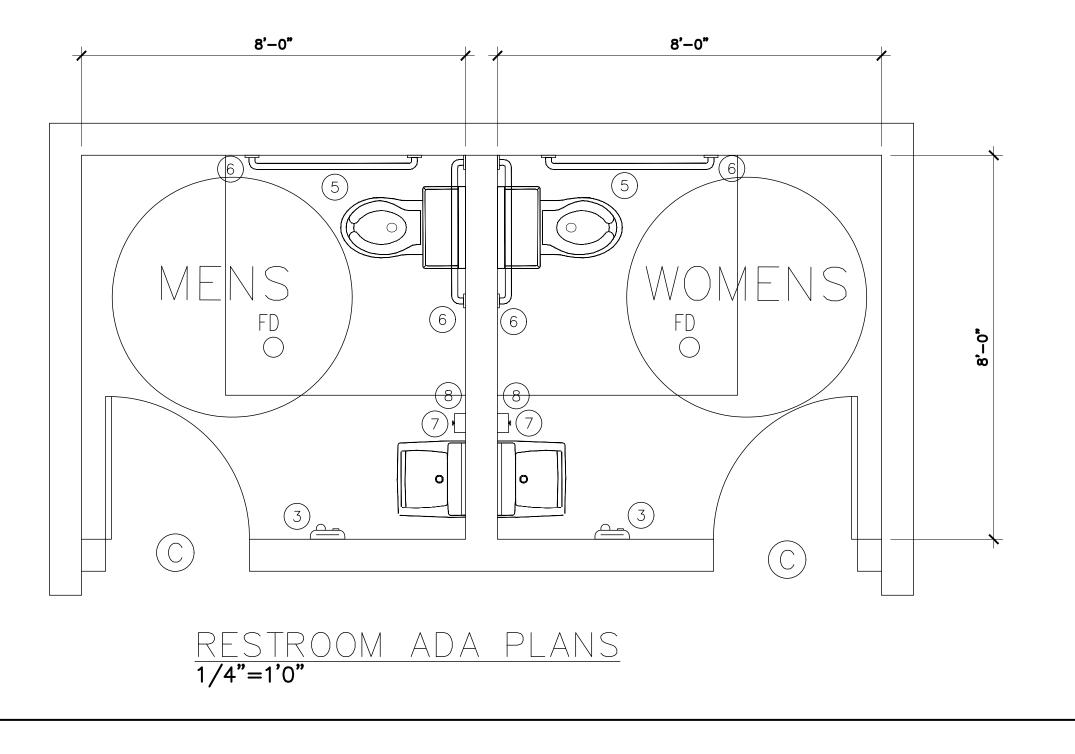


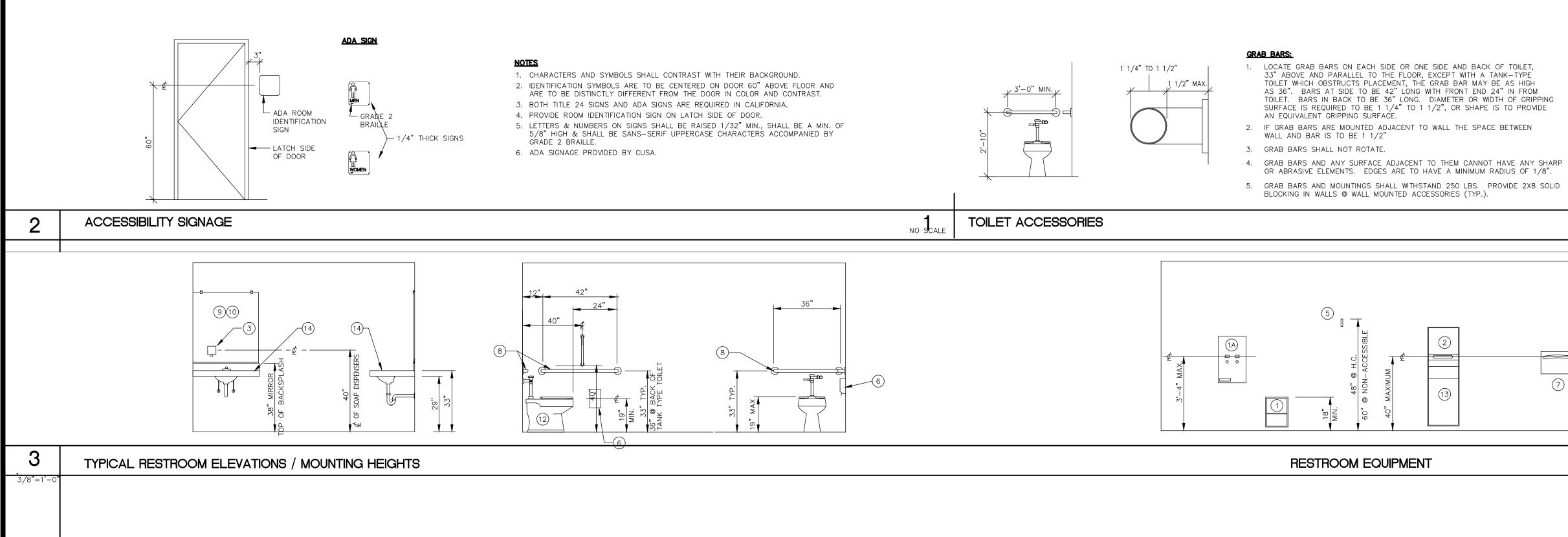


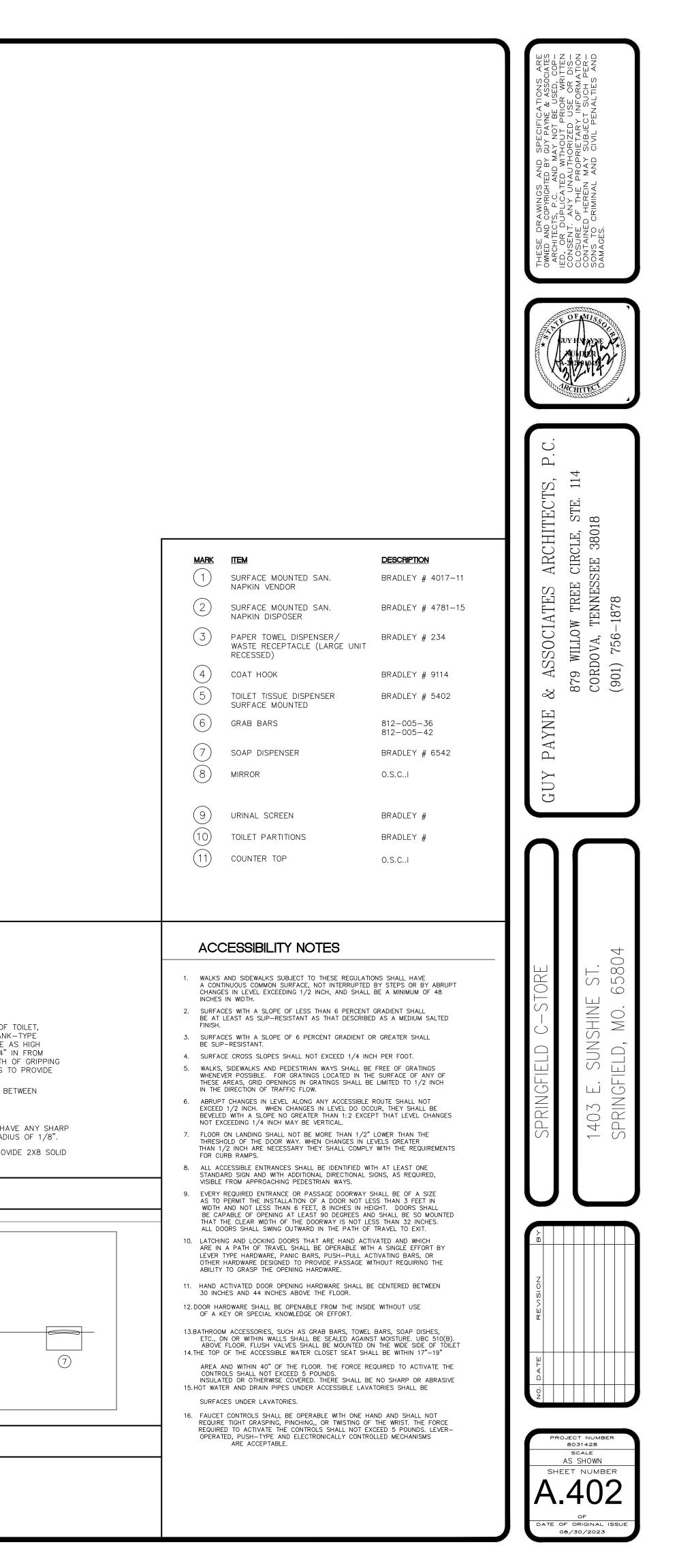
	SIZE	TYPE	MANUFACTURER	FRAME	HARDWARE	FINISH	REMARKS
A)	PR. 3'-0" x 8'-0"	NARROW STYLE w/ 1/2" TEMP. GLASS	KAWNEER, VISTAWALL OR US ALUMINUM	ALUMINUM	A	BRONZE	
B	3'-0" x 7'-0" x 1-3/4"	18 GA. FLUSH STL.	REPUBLIC OR EQUAL	HOLLOW METAL	В	MATCH ADJ. WALLS	
C	3'-0" x 7'-0" x 1-3/4"	SCW DOOR	REPUBLIC OR EQUAL	HOLLOW METAL	В	MATCH ADJ. WALLS	

8 DOOR SCHEDULE









CONDITIONS OF CONTRACT 0.01 GENERAL CONDITIONS

A. THE GENERAL CONDITIONS OF THE CONTRACT IS THE AMERICAN INSTITUTE OF ARCHITECT'S A.I.A. DOCUMENTS A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, 1987 EDITION WHICH IS MADE A PART OF THE CONTRACT DOCUMENTS WITH THE SAME FORCE AND EFFECT AS THOUGH SET FORTH IN FULL AND SHALL APPLY TO ALL PORTIONS OF THE WORK.

B. THE CONTRACTOR IS HEREBY SPECIFICALLY DIRECTED AS A CONDITION OF THE CONTRACT TO OBTAIN THE NECESSARY NUMBER OF COPIES OF THE A.I.A. DOCUMENT A201, TO ACQUAINT HIMSELF WITH THE ARTICLES CONTAINED THEREIN, AND TO NOTIFY AND APPRISE ALL SUBCONTRACTORS AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONTENTS.

0.02 SUPPLEMENTARY CONDITIONS

A. THE CONTRACTOR AND OWNER SHALL REVIEW ARTICLE II INSURANCE WITH THEIR INSURANCE AGENTS AND/OR LEGAL COUNSEL AND SHALL PROVIDE COVERAGE AS AGREED UPON BUT NOT FOR LESS THAN THAT REQUIRED BY LAW. COMPREHENSIVE GENERAL LIABILITY INSURANCE OF COMBINED SINGLE LIMITS FOR BODILY AND PROPERTY DAMAGE OF \$1,000,000 EACH OCCURENCE AND \$2,000,000 AGGREGATE SHALL BE PROVIDED, COMPREHENSIVE AUTOMOBILE LIABILITY OF \$500,000 EACH OCCURENCE, AND WORKMEN'S COMPENSATION OF \$100,000 OF EMPLOYER'S LIABILITY.

C. THESE DRAWINGS ARE THE PROPERTY OF GUY PAYNE & ASSOCIATES ARCHITECTS THE DRAWINGS MAY BE USED BY THE OWNER TO CONSTRUCT AND OCCUPY THIS PROJECT ONLY. THE DRAWINGS OR THE DESIGN INDICATED ON THE DRAWINGS MAY NOT BE REPRODUCED OR USED FOR ANY OTHER PROJECT OR PURPOSE. GUY PAYNE & ASSOC. ARCH. ACCEPTS RESPONSIBILITY ONLY FOR THOSE DRAWINGS WHICH HAVE AN ORIGINAL SEAL, SIGNATURE, CONSTRUCTION ISSUE DATE AND DATE OF THE FINAL REVISIONS FOR THE DRAWINGS.

ALL MATERIALS, EQUIPMENT AND SUPPLIES CALLED FOR IN THIS PROJECT SHALL BE INSTALLED, CONNECTED AND/OR APPLIED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATIONS OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL EXPENSES, REAL OR IMPLIED, ARISING FROM SUCH ACCEPTANCE.

THE CONTRACTOR SHALL VERIFY CONDITIONS TO HIS SATISFACTION BEFORE PROCEEDING WITH CONSTRUCTION. IF A CONFLICT WITHIN THE PLANS IS DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY CONSTRUCTION PROBLEM OR DEFECT CAUSED BY PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFYING THE ARCHITECT OF CONFLICTS WITHIN THE PLANS. THESE DRAWINGS ARE SCHEMATIC REPRESENTATIONS OF THE INTENDED CONSTRUCTION. DO NOT SCALE DRAWINGS DIMENSIONS GOVERN OVER SCALE. CHANGES TO THE PLANS BY ANYONE OTHER THAN GUY PAYNE & ASSOCIATES ARCHITECTS ARE NOT AUTHORIZED.

DIVISION ONE – GENERAL REQUIREMENTS

1.01 SUMMARY OF WORK

A. WORK OF THIS CONTRACT COMPRISES CONSTRUCTION OF A NEW CONVENIENT STORE AT INGRAM BLVD, WEST MEMPHIS, ARK. AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

B. IT IS INTENDED THAT THESE SPECIFICATIONS AND DRAWINGS INCLUDE EVERYTHING NECESSARY TO PERFORM THE ENTIRE WORK PROPERLY. EVERY ITEM NECESSARILY REQUIRED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. UNLESS EXPRESSLY STATED OTHERWISE, ALL SYSTEMS AND EQUIPMENT SHALL BE PROVIDED COMPLETE AND OPERABLE.

C. TITLE AND HEADINGS TO DIVISION SECTIONS AND PARAGRAPHS IN THESE CONTRACT DOCUMENTS ARE INTRODUCED FOR CONVENIENCE AND SHALL NOT BE TAKEN AS A CORRECT OR COMPLETE SEGREGATION OF THE SEVERAL UNITS OF MATERIALS AND LABOR. NO RESPONSIBILITY EITHER DIRECT OR IMPLIED IS ASSUMED BY THE ARCHITECT OR OWNER FOR OMISSION OR DUPLICATIONS BY THE CONTRACTOR OR HIS SUBCONTRACTORS, DUE TO REAL OR ALLEGED ERROR IN ARRANGEMENT OF THE CONTRACT DOCUMENTS.

1.02 CONTRACTOR USE OF PREMISES

A. CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATIONS AS TO ENSURE THE LEAST INCONVENIENCE TO THE GENERAL PUBLIC. COMPLY WITH APPLICABLE CODES AND ORDINANCES FOR SAFETY.

B. SCHEDULE USE OF PREMISES FOR WORK AND COORDINATE CONSTRUCTION OPERATIONS TO ALLOW FOR: 1. OWNER OCCUPANCY

2. WORK BY OTHER CONTRACTORS AND WORK BY OWNER.

C. ASSUME FULL RESPONSIBILITY FOR THE PROTECTION AND SAFEKEEPING OF PRODUCTS UNDER THIS CONTACT STORED ON THE SITE.

D. COORDINATE ACCESS TO BUILDING WITH LANDLORD AND PROVIDE FOR BUILDING SECURITY AS REQUIRED.

1.03 SUBMITTALS

A. GENERAL CONTRACTOR SHALL REVIEW AND SUBMIT SAMPLES AND SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO AND FABRICATION OR INSTALLATION. SUBMITTALS SHALL BE SCHEDULED IN AN ORDERLY SEQUENCE TO PREVENT DELAYS IN CONSTRUCTION.

B. INFORM THE ARCHITECT IN WRITING AT THE TIME OF SUBMISSION OF ANY PROPOSED DEVIATION IN SUBMITTALS FROM THE REQUIREMENT OF THE CONTRACT DOCUMENTS.

C. BY REVIEWING AND SUBMITTING SHOP DRAWINGS AND SAMPLES, THE GENERAL CONTRACTOR INDICATES THAT HE HAS DETERMINED AND VERIFIED FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIAL, CATALOG NUMBERS AND SIMILAR DATA, AND THAT EACH SUBMITTAL HAS BEEN CHECKED AND COORDINATED WITH THE REQUIREMENT OF THE CONTRACT DOCUMENTS.

D. SHOP DRAWINGS:

1. PROVIDE SHOP DRAWINGS AS REQUIRED BY THE VARIOUS SPECIFICATION SECTIONS. 2. SUBMIT ONE REPRODUCIBLE AND THREE PRINTS OF EACH SHOP DRAWING. INCLUDE CONTRACTOR'S STAMP AND REVIEW COMMENTS INDICATING THAT CONTRACTOR HAS REVIEWED THE SUBMITTAL 3. WHEN REQUIRED, REVISIONS SHALL BE INCORPORATED AND RESUBMITTED 4. REVIEW BY THE ARCHITECT SHALL BE FOR DESIGN CONCEPT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF SHOP DRAWINGS, PROPER FITTINGS, COORDINATION, CONSTRUCTION TECHNIQUES, AND

MATERIALS. REVIEW OF SHOP DRAWINGS SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM CONTRACT REQUIREMENTS. E. SAMPLES:

1. PROVIDE MINIMUM TWO SAMPLES OF ALL FINISH MATERIALS. SHIP SAMPLES PREPAID. 2. REJECTED SAMPLES SHALL BE RESUBMITTED AS SOON AS POSSIBLE AND SHALL BE IDENTIFIED AS "RESUBMITTED SAMPLES". 3. REFER TO EACH SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.

1.04 QUALITY CONTROL

A. MAINTAIN QUALITY CONTROL OVER SUPPLIES, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP, TO PRODUCE WORK OF SPECIFIED QUALITY.

B. COMPLY WITH MANUFACTURERS' INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE.

C. SHOULD MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.

D. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED IN CITED TO WITHOTAND CTDECCEC VIDDATION DUVCLOAL DICTOR

1.06 CONTRACT CLOSE-OUT A. CONTRACTOR AND THE APPLICABLE SUBCONTRACTOR SHALL FURNISH TO OWNER WRITTEN INSTRUCTIONS AND/OR MANUFACTURERS OPERATING AND MAINTENANCE PROCEDURES FOR ALL EQUIPMENT INSTALLED UNDER ELECTRICAL, PLUMBING, AND AIR CONDITIONING SUBCONTRACTS.

B. CONTRACTOR SHALL PROVIDE A MINIMUM ONE YEAR WRITTEN WARRANTY AGAINST DEFECT IN ALL MATERIALS, EQUIPMENT AND WORKMANSHIP UNLESS LONGER WARRANTY IS SPECIFIED. 1.07 PROJECT CLEANUP

A. MAINTAIN AREAS FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH. MAINTAIN SITE IN A CLEAN AND ORDERLY CONDITION.

B. BROOM AND VACUUM CLEAN INTERIOR AREAS PRIOR TO START OF SURFACE FINISHING, AND CONTINUE CLEANING TO ELIMINATE DUST.

C. CLEAN SURFACES EXPOSED TO VIEWS, REMOVE TEMPORARY LABELS, STAINS AND FOREIGN SUBSTANCES, POLISH TRANSPARENT AND GLOSSY SURFACES, VACUUM CARPETED AND SOFT SURFACES.

MECHANICAL EQUIPMENT. DIVISION TWO - SITE WORK

02110 SITE CLEARING- N.I.C.

A. ALL STUMPS AND ROOTS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF AT LEAST 12 INCHES BELOW THE SURFACE OF THE GROUND IN THE AREA TO BE OCCUPIED BY THE BUILDING, PLUS A MARGIN OF 5 FEET OUTSIDE THE BUILDING PERIMETER LINE.

DIVISION THREE - CONCRETE 03000 CONCRETE

DIVISION FOUR - MASONRY 04200 - UNIT MASONRY

B. PROVIDE SPECIAL SHAPES FOR APPLICATIONS REQUIRING MASONRY OF SIZE, FORM, COLOR, AND TEXTURE ON EXPOSED SURFACES THAT CANNOT BE PRODUCED BY SAWING.

1. TYPE 'A' 4X8X16 SMOOTH FACE 2. TYPE 'B' 8X8X16 SMOOTH FACE

D. 1. FACE BRICK; MODULAR SIZE MEETING ASTM C 216 GRADE SW. COLOR AS SCHEDULED ON DRAWINGS. 2. FACE BRICK: 3.5/8""x2.1/4"x7.5/8" MEETING ASTM C1088. GRADE EXTERIOR TYPE TBS COLOR TO MATCH FACE BRICK AS SCHEDULED ON DRAWINGS.

. MORTAR: UBCS 21-15. TYPE S; ASTM C 270, TYPE S. PROVIDE ONE OF HE FOLLOWING COLOR OPTIONS: 1. PROVIDE TWO COLORS- MORTAR COLOR TO MATCH COLOR OF ADJACENT MASONRY UNIT 2. PROVIDE ONE COLOR- MORTAR COLOR TO MATCH COLOR OF C.M.U.

F. GROUT: UBCS 21-19; ASTM C 476. G. WALL TIES SHALL BE CORROSION RESISTANT, AND IF MADE OF SHEET METAL, SHALL HAVE A MINIMUM THICKNESS OF 0.030 INCH (0.76MM) (NO.22 GALVANIZED SHEET GAGE) BY 3/4 INCH (19.1MM) OR, IF OF WIRE, SHALL HAVE A MINIMUM DIAMETER OF Ó.148 INCH (3.76MM) (NO. 9 B.W.)

H. EMBEDDED COPPER-FABRIC LAMINATE FLASHING: COPPER SHEET WEIGHING 7 OZ/SQ.FT., BONDED WITH ASPHALT BETWEEN 2 LAYERS OF GLASS-FIBER

I. LAY MASONRY IN PATTERN AS SHOWN ON DRAWINGS AND CONSTRUCTED IN ACCORDANCE WITH UBC SECTION 2104. DIVISION FIVE - METALS 05500: METAL FABRICATIONS A. REFERENCE APPLICABLE ANSI AND ASTM STANDARDS, AND ALL BUILDING CODE

REQUIREMENTS.

B. SHOP DRAWINGS: FOR ALL MISCELLANEOUS FRAMING, SUPPORTS AND FABRICATED ITEMS INDICATE IN COMPLETE DETAIL ALL INFORMATION REQUIRED FOR FABRICATION, FINISHING AND INSTALLATION OF THIS WORK. C. SHOP PRIME COAT: SECTION 09900, PAINTING.

D. FOR THE FABRICATION OF ITEMS WHICH WILL BE EXPOSED TO VIEW, USE ONLY MATERIALS WHICH ARE SMOOTH AND FREE OF BLEMISHES INCLUDING PITTING, SEAM MARKS, ROLLER WORKS, ROLLER TRADE NAMES AND ROUGHNESS. E. WELDING: GRIND EXPOSED WELDS SMOOTH AND FLUSH TO MATCH AND BLEND

WITH ADJOINING SURFACES.

SURFACES AND STRAIGHT SHARP EDGES. REMOVE LOOSE RUST, MILL SCALE, CUTTING AND PUNCHING BURRS. G. SHOP PAINT ALL METAL WORK SPECIFIED IN THIS SECTION EXCEPT THOSE MEMBERS OR PORTIONS OF MEMBERS TO BE FIELD WELDED OR GALVANIZED.

H. INSTALL MANUFACTURED ITEMS IN STRICT ACCORD WITH MANUFACTURER'S CURRENT WRITTEN INSTRUCTIONS.

DIVISION SIX - WOOD & PLASTICS 06100: ROUGH CARPENTRY

CODES AND STANDARDS.

B. CERTIFICATION: WOOD TREATMENT IN COMPLIANCE WITH GOVERNING BUILDING CODE.

C. LUMBER: MANUFACTURER GRADED AND GRADE-MARKED IN COMPLIANCE WITH N.F.P.A., CONSTRUCTION GRADE OR BETTER DOUGLAS FIR. D. PLYWOOD: U.S. DEPARTMENT OF COMMERCE, PRODUCT STANDARD PS 1, STRUCTURAL I, C-D GRADE, GRADED AND GRADE-MARKED BY THE AMERICAN PLYWOOD ASSOCIATION. EXPOSED PLYWOOD SHALL BE PER A.W.I. GRADE.

E. BOLTS, NUTS, NAILS, AS REQUIRED. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED, NAILS SHALL BE GALVANIZED.

D. CLEAN EQUIPMENT AND FIXTURES, CLEAN OR REPLACE FILTERS ON

A. REFER TO DRAWINGS AND SPECIFICATIONS PREPARED BY STRUCTURAL ENGINEER.

A. PROVIDE UNITS WITHOUT CORES OR FROGS AND WITH EXPOSED SURFACES FINISHED FOR ENDS OF SILLS AND CAPS AND FOR SIMILAR APPLICATIONS THAT WOULD OTHERWISE EXPOSE UNFINISHED MASONRY SURFACES.

C. CONCRETE MASONRY UNITS; NOMINAL SIZES MEETING ASTM C 90 GRADE N-1. COLOR AND SPECIAL SIZES & SHAPES AS SCHEDULED ON DRAWINGS

F. FORM EXPOSED WORK TRUE TO LINE AND LEVEL WITH ACCURATE ANGLES AND

A. REQUIREMENTS OF REGULATORY AGENCIES: COMPLY WITH ALL APPLICABLE

I. NO WOOD SHALL BE NEARER THAN 6 INCHES TO ANY EARTH UNLESS SEPARATED BY CONCRETE AT LEAST 3 INCHES IN THICKNESS. AN IMPERVIOUS MEMBRANE WILL BE INSTALLED BETWEEN THE EARTH AND CONCRETE. J. AIR OR KILN DRY LUMBER BEFORE SURFACING TO A MOISTURE CONTENT NOT EXCEEDING 19% BEFORE INCORPORATION INTO THE WORK, ALLOW LUMBER TO

ATTAIN A STATE OF EQUILIBRIUM WITH THE LOCAL ATMOSPHERE. K. WORKMANSHIP: PERFORM ENTIRE WORK IN ACCORD WITH THE BEST STANDARDS OF PRACTICE RELATING TO THE TRADE AND CAREFULLY PLAN AND

LAY OUT THE WORK AS REQUIRED. PROPERLY ACCOMMODATE THE WORK OF OTHER TRADES.

06500: PRE-ENGINEERED METAL BUILDINGS-NOT USED

1. THIS SECTION INCLUDES STUCTURAL STEEL MAIN BUILDING FRAMES AND SECONDARY FRAMING INCLUDING PURLINS AND GIRTS, ENGINEERED AND FABRICATED BY THE BUILDING SYSTEMS SUPPLIER.

2. INSULATED ROOF SYSTEM INCLUDING GUTTERS AND DOWNSPOUTS. AND SECONDARY FRAMING INCLUDING PURLINS AND GIRTS, ENGINEERED AND FABRICATED BY THE BUILDING SYSTEMS SUPPLIER.

3. DESIGN REQUIREMENTS- MEMBERS TO WITHSTAND BUILDING SYSTEM DEAD LOADS, GROUND SNOW LOAD OF 10 PSF, (.7 SNOW EXPOSURE) LIVE LOAD OF 20 PSF WITH TRIBUTARY AREA LOAD REDUCTION, COLLATERAL LOAD OF 5 PSF, WIND LOAD OF 70 MPH (C EXPOSURE) SEISMIC ACCELERATION OF .05 Av AND .05 Ag, BUILDING USE CATEGORY 1.0. ALL LOADS SHALL BE PROPORTIONED AND APPLIED IN ACCORDANCE WITH THE MBMA LOW RISE MANUAL BUILDING SYSTEMS MANUAL, AND

THE 2010 INTERNATIONAL BUILDING CODE. 4. DEFELECTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE AISC STEEL DESIGN GUIDE SERIES 3-SERVICABILITY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS.

5. ROOF DRAINAGE SYSTEM TO WITHSTAND RAINFALL INTENSITY OF 9 INCHES PER HOUR WITH 5 MINUTE DURATION. 6. MATERIALS- ROOF SYSTEM

A. SHEET STEEL STOCK: ZINC-ALUMINUM COATED TO AZ55 AS REUIRED BY MANUFACTURER'S DESIGN.

B. ROOF INSULATION: ASTM C553, ROLL GLASS FIBER TYPE, FACED WITH REINFORCED, WHITE VINYL, UL FLAME SPREAD CLASSIFICATION OF 25 OR LESS WHERE EXPOSED 3 INCHES THICK.

C. THROUGH FASTENED ROOFING: MINIMUM 24 GAUGE, R-PROFILE, UL 90 RATED, LAPPED, WITH CONTINUOUS SEALANT. D. FASTENERS: MANUFACTURER'S STANDARD TYPE, FINISH TO MATCH

ADJACENT SURFACES WHEN EXTERIOR EXPOSED. SIZE TO MAINTAIN LOAD WEATHER TIGHTNESS REQUIREMENTS.

E. EXTERIOR SURFACES OF ROOF PANELS: GALVALUME TM FINISH. 7. SUBMITTALS- SUBMIT ANCHOR BOLT PLACEMENT PLAN STAMPED BY A TENNESSEE ENGINEER.

PRODUCT DATA - PROVIDE DATA ON PROFILES, COMPONENT DIMENSIONS, FASTENERS AND WARRANTIES.

8. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH MBMA LOW RISE BUILDING SYSTEMS MANUAL, AND FOR ITEMS NOT COVERED. AISC-SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS.

9. BUILDING MANUFACTURER SHALL PROVIDE A MATERIAL WARRANTY OF 20 YEARS. METAL BUILDING CONTRACTOR SHALL PROVIDE A WORKMANSHIP WARRANTY OF 1 YEAR.

10. THE COMPANY MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION SHALL HAVE A MINIMUM OF 3 YEARS EXPERIENCE IN THE MANUFACTURE OF THE STEEL BUILDING SYSTEMS. THE MANUFACTURING COMPANY SHALL BE CERTIFIED UNDER THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MB CERTIFICATION PROGRAM. 11. STRUCTURAL FRAMING AND COVERING SHALL BE THE DESIGN OF A LICENSED PROFESSIONAL ENGINEER EXPERIENCED IN DESIGN OF THIS WORK.

12. FABRICATION- FRAMING MEMBERS. CLEAN IN ACCORDANCE WITH SSPC-SP-2, PREPARE, AND COAT WITH BUILDING MANUFACTURER'S STANDARD PRIMER. A. HOT ROLLED MEMBERS SHALL BE FABRICATED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR PIPE, TUBE, AND ROLLED STRUCTURAL SHAPES.

B. FABRICATE BUILT-UP MEMBERS IN ACCORDANCE WITH MBMA LOW RISE BUILDING SYSTEMS MANUAL. COMMON INDUSTRY PRACTICES.

13. FABRICATION-GUTTERS & DOWNSPOUTS A. FORM GUTTERS AND DOWNSPOUTS FROM 26 GAUGE MATERIAL AND SIZE TO COLLECT AND REMOVE WATER. FABRICATE WITH CONNECTION PIECES.

B. FORM SECTIONS IN 20 FT. LENGTHS. HEM EXPOSED EDGES. C. FABRICATE DOWNSPOUT SUPPORT STRAPS OF MAUNFACTURER'S STANDARD MATERIAL.

FINISH COLOR AS SELECTED. 14. ERCETION-FRAMING-ERECT FRAMING IN ACCORDANCE WITH MBMA LOW RISE BUILDING SYSTEMS MANUAL, COMMON INDUSTRY PRACTICES.

A. THE ERECTOR SHALL FURNISH TEMPORARY GUYS AND BRACING WHERE NEEDED FOR SQUARING, PLUMBING, AND SECURING THE STRUCTURAL FRAMING AGAINST LOADS, SUCH AS WIND LOADS ACTING ON THE EXPOSED FRAMING AND SEISMIC FORCES, AS WELL AS LOADS DUE TO ERECTION EQUIPMENT AND ERECTION OPERATION, BUT NOT INCLUDING LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OTHERS. BRACING FURNISHED BY THE MANUFACTURER FOR THE METAL BUILDING SYSTEM CANNOT BE ASSUMED TO BE ADEQUITE DURING ERECTION. THE TEMPORARY GUYS, BRACES, FALSEWORKS, AND

CRIBBING ARE THE PROPERTY OF THE ERECTOR, AND THE ERECTOR SHALL REMOVE THEM IMMEDIATELY UPON COMPLETION OF ERCETION. B. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHIUT APPROCAL OF THE METAL

BUILDING MANUFACTURER. C. AFTER ERECTION, PRIME WELDS, ABRASION, AND SURFACES NOT SHOP PRIMED.

D. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. E. INSTALL FRAMING IN ACCORDANCE WITH MBMA LOW RISE BUILDING SYSTEMS MANUAL, COMMON INDUSTRY PRACTICES.

- DIVISION SEVEN THERMAL AND MOISTURE PROTECTION
- 07200: THERMAL INSULATION

A. EXTENT OF INSULATION WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING APPLICATIONS:

- 1. BOARD-TYPE BUILDING INSULATION, CONCEALED.
- 2. BLANKET-TYPE BUILDING INSULATION. 3. ROOF INSULATION SEE ROOFING SPEC. 07510.

B. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF ONE OF THE FOLLOWING:

- 1. MANUFACTURERS OF EXTRUDED POLYSTYRENE AND BOARD INSULATION: A. AMOCO FOAM PRODUCTS CO. B. DOW CHEMICAL USA.
- C. MINNESOTA DIVERSIFIED PRODUCTS, INC.
- D. UC INDUSTRIES 2. MANUFACTURERS OF GLASS FIBER INSULATION:
- A. CERTAINTEED CORP. B. KNAUF FIBER GLASS GMCH.
- C. MANVILLE CORP.
- D. OWENS-CORNING FIBERGLASS CORP.
- C. REFERENCE STANDARDS AND COMPLY WITH MANUFACTURERS' RECOMMENDATIONS AND THE FOLLOWING FIRE PERFORMANCE CHARACTERISTICS: 1. SURFACE BURNING CHARACTERISTICS: ASTM E 84
- FIRE RESISTANCE RATINGS: ASTM E 119 3. COMBUSTION CHARACTERISTICS ASTM E 136

D. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR PARTICULAR CONDITIONS OF INSTALLATION IN EACH CASE. IF PRINTED INSTRUCTIONS ARE NOT AVAILABLE OR DO NOT APPLY TO PROJECT CONDITIONS, CONSULT MANUFACTURER'S TECHNICAL REPRESENTATIVE FOR SPECIFIC RECOMMENDATIONS BEFORE PROCEEDING WITH WORK.

F FXTEND INSULATION FULL THICKNESS AS SHOWN OVER ENTIRE AREA TO RE

H. ACCESSORIES I. EXAMINATION

2. INSTALL WEATHER BARRIER PRIOR TO INSTALLATION OF WINDOWS AND DOORS. 3. START WEATHER BARRIER INSTALLATION AT A BUILDING CORNER, LEAVING 6-12 INCHES OF WEATHER BARRIER EXTENDED BEYOND CORNER TO OVERLAP. 4. INSTALL WEATHER BARRIER IN A HORIZONTAL MANNER STARTING AT THE LOWER PORTION OF WALL SURFACE WITH SUBSEQUENT LAYERS INSTALLED IN A SHINGLING MANNER TO OVERLAP LOWER LAYERS. MAINTAIN WEATHER BARRIER PLUMB AND LEVEL. 5. ATTACH WEATHER BARRIER TO STUDS THROUGH EXTERIOR SHEATHING WITH RECOMMENDED FASTENERS SPACED

INCHES VERTICALLY ON CENTER ALONG STUD LINE AND 24 INCHES ON CENTER HORIZONTALLY. 6. SEAL SEAMS OF WEATHER BARRIER WITH SEAM TAPE AT ALL VERICAL AND HORIZONTAL OVERLAPPING SEAMS. INCHES VERTICALLY ON CENTER ALONG STUD LINE AND 24 INCHES ON CENTER HORIZONTALLY. SEAL ANY TEARS OR CUTS AS RECOMMENDED BT WEATHER BARRIER MANUFACTURER.

A. THIS SECTION INCLUDES ALUMINUM COMPOSITE PANELS WITH MOUNTING SYSTEM, INCLUDING ANCHORAGES, SHIMS, FURRING, FASTENERS, GASKETS AND SEALANTS, RELATED FLASHING ADAPTERS, AND MASKING AS REQUIRED FOR A COMPLETE WATERTIGHT INSTALLATION.

PLASTIC SYSTEMS

H. SEAL JOINTS BETWEEN CLOSED-CELL (NON-BREATHING) INSULATION UNITS BY APPLYING MASTIC OR SEALANT TO EDGES OF EACH UNIT TO FORM A TIGHT SEAL AS UNITS ARE SHOVED INTO PLACE. FILL VOIDS IN COMPLETED INSTALLATION WITH MASTIC OR SEALANT.

I. SET VAPOR RETARDER FACED UNITS WITH VAPOR RETARDER TO WARM SIDE OF CONSTRUCTION, EXCEPT AS OTHERWISE INDICATED. DO NOT OBSTRUCT VENTILATION SPACES, EXCEPT FOR FIRESTOPPING.

J. REPAIR ANY TEARS OR PUNCTURES IN VAPOR RETARDERS IMMEDIATELY BEFORE CONCEALMENT BY OTHER WORK. COVER WITH TAPE OR ANOTHER LAYER OF VAPOR RETARDER.

K. PROTECT INSTALLED INSULATION AND VAPOR RETARDERS FROM HARMFUL WEATHER EXPOSURES AND FROM POSSIBLE PHYSICAL ABUSES, WHERE POSSIBLE BY NONDELAYED INSTALLATION OF CONCEALING WORK OR, WHERE THAT IS NOT POSSIBLE, BY TEMPORARY COVERING OR ENCLOSURE.

07240: WEATHER BARRIERS

A. COMPLY WITH: 1. ASTM C920; STANDARD SPEC FOR ELASTOMERIC JOINT SEALANTS

2. ASTM C1193; STANDARD GUIDE FOR USE OF JOINT SEALANTS

3. ASTM D882; TEST METHOD FOR TENSILE PROPERTIES OF THIN PLASTIC SHEETING 4. ASTM E96; TEST METHOD FOR WATER VAPOR TRANSMISSION OF MATERIALS 5. ASTM E2178; TEST METHOD FOR AIR PERMANENCE OF BUILDING MATERIALS

B. SUBMITALS 1. PRODUCT DATA: SUBMIT MANUFACTURER CURRENT TECHNICAL LITERATURE FOR EACH COMPONENT. 2. SAMPLES: WEATHER BARRIER MEMBRANE, MINIMUM 8 1/2 BY 11. 3. MANUFACTURER'S FIELD SERVICE REPORTS: PROVIDE SITE REPORTS FROM AUTHORIZED FIELD SERVICE REPRESENTATIVE, INDICATING OBSERVATION OF WEATHER BARRIER ASSEMBLY INSTALLATION.

C. CLOSEOUT SUBMITTALS: 1. WEATHER BARRIER WARRANY: MANUFACTURER'S EXECUTED WARRANTY FORM WITH AUTHORIZED SIGNATURES AND ENDORSEMENTS INDICATING DATE OF SUSBSTANTIAL COMPLETION.

D. QUALITY ASSURANCE: 1. INSTALLATION SHALL BE IN ACCORDANCE WITH WEATHER BARRIER MANUFACTURER'S INSTALLATION GUIDELINES AND RECOMMENDATIONS.

E. DELIVERY, STORAGE AND HANDLING 1. DELIVER WEATHER BARRIER MATERIALS AND COMPONENTS IN MANUFACTURER'S ORIGINAL, UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT.

F. MATERIALS 1. BASIS OF DESIGN: SPUNBONDED POLYOLEFIN, NON-WOVEN, NON-PERFORATED, WEATHER BARRIER IS BASED UPON DUPONT TYVEK COMMERCIALWRAP AND RELATED ASSEMBLY COMPONENTS OR APPROVED EQUAL. G. PERFORMANCE CHARACTERISTICS

1. AIR PENETRATION: .001 CFM/FT2 AT 75 PA. 2. WATER VAPOR TRANSMISSION: 28 PERMS, WHEN TESTED IN ACCORDANCE WITH ASTM E96, METHOD B. 3. WATER PENETRATION RESISTANCE: 280 CM

4. AIR RESISTANCE: AIR INFILTRATION AT >1500 SECONDS 5. TENSILE STRENGTH: 38/35LBS/IN.

1. PROVIDE ALL ACCSSORIES REQUIRED FOR ASSEMBLY-SEAM TAPE, FASTENERS, ADHESIVES, FLASHINGS & DEALANTS IN ACCORDANCE WITH MANUFACTURER'S RECCOMMENDATIONS.

1. VERIFY SUBSTRATE AND SURFACE CONDITIONS ARE IN ACCORDANCE WITH WEATHER BARRIER MANUFACTURER RECOMMENDED TOLERANCES PRIOR TO INSTALLATION OF WEATHER BARRIER AND ACCESSORIES. J. INSTALLATION-WEATHER BARRIER

1. INSTALL WEATHER BARRIER OVER EXTERIOR FACE OF EXTERIOR FACE OF EXTERIOR WALL SUBSTRATE IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS.

07420: COMPOSITE METAL PANEL SYSTEMS-NOT USED

B. REFERENCES AND STANDARDS INCLUDE:

1. AA (ALUMINUM ASSOCIATION): - ALUMINUM CONSTRUCTION MANUAL:

ALUMINUM SHEET METAL WORK AND BUILDING CONSTRUCTION 2. AA (ALUMINUM ASSOCIATION): - AA-C22-A41 ANODIZED CLEAR COATINGS 3. AA (ALUMINUM ASSOCIATION): - AA-C22-A42 ANODIZED INTEGRAL

CLEAR COATINGS 4. ASTM B209/B209M - ALUMINUM AND ALUMINUM - ALLOY SHEET AND PLATE 5. ASTM E84 - SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS 6. ASTM E 162-83: SURFACE FLAMMABILITY OF MATERIALS USING A

RADIANT HEAT ENERGY SOURCE 7. ASTM D 3363-74: METHOD FOR FILM HARDNESS BY PENCIL TEST

8. ASTM D 2794-90: RESISTANCE OF ORGANIC COATINGS TO THE EFFECTS OF RAPID DEFORMATION (IMPACT)

9. ASTM D 3359-90: METHODS FOR MEASURING ADHESION BY TAPE TEST 10. ASTM D 2247-87: PRACTICE FOR TESTING WATER RESISTANCE OF

COATINGS IN 100% RELATIVE HUMIDITY 11. ASTM B 117: METHOD OF SALT SPRAY (FOG) TESTING

12. ASTM D 822: PRACTICE FOR OPERATING LIGHT AND WATER EXPOSURE APPARATUS (CARBON-ARC TYPE) FOR TESTING PAINT, VARNISH, LACQUER, AND RELATED PRODUCTS 13. ASTM D 1308-87: EFFECT OF HOUSEHOLD CHEMICALS ON CLEAR AND

PIGMENTED ORGANIC FINISHES 14. ASTM D 1735: METHOD FOR WATER FOG TESTING OF ORGANIC COATINGS 15. ASTM F 330: STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE 16. ICBO: UBC ROOM FIRE TEST STANDARD FOR INTERIOR OF FOAM

C. DETAIL PANEL PROVIDING A WATERTIGHT AND STRUCTURALLY SOUND WALL PANEL SYSTEM THAT ALLOWS NO CONTROLLED WATER PENETRATION ON THE INSIDE FACE OF THE PANEL SYSTEM AS DETERMINED BY ASTM E331. SYSTEMS NOT UTILIZING A CONSTRUCTION SEALANT AT THE PANEL JOINTS SHALL PROVIDE A MEANS OF CONCEALED DRAINAGE WITH BAFFLES AND WEEPS FOR WATER WHICH MAY ACCUMULATE IN MEMBERS OF THE SYSTEM. DESIGN UNITS TO WITHSTAND DESIGN LOADS AS CALCULATED IN ACCORDANCE WITH APPLICABLE CODES AND ERECTION FORCES. MAXIMUM ALLOWABLE DEFLECTION: 1/90. DESIGN UNITS TO ACCOMMODATE CONSTRUCTION TOLERANCES, DEFLECTION OF BUILDING STRUCTURAL MEMBERS AND CLEARANCES OF INTENDED OPENINGS.

ACM MANUFACTURER SHALL HAVE A MINIMUM OF TEN YEARS EXPERIENCE IN THE MANUFACTURING OF THIS PRODUCT. ACM MANUFACTURER SHALL BE SOLELY RESPONSIBLE FOR PANEL MANUFACTURE AND APPLICATION OF THE FINISH. FABRICATOR AND INSTALLER SHALL BE ACCEPTABLE TO THE COMPOSITE MANUFACTURER. FELD MEASUREMENTS SHALL BE TAKEN PRIOR TO THE COMPLETION OF SHOP FABRICATION WHENEVER POSSIBLE. FLATNESS CRITERIA OF THE INSTALLED PANEL SYSTEM: MAXIMUM OF 1/4" IN 20'-0' ON PANEL IN ANY DIRECTION. PANEL FABRICATOR/INSTALLER SHALL ASUME UNDIVIDED RESPONSIBLITY FOR ALL COMPONENTS OF THE EXTERIOR PANEL SYSTEM.

TEST REPORTS: SUBMIT SERTIFIED TEST REPORTS WHICH MEET OR EXCEED THE REQUIREMENTS OF THE MANUFACTURER. PROVIDE THE NAME AND LOCATION OF THE CERTIFIED INDEPENDENT TESTING LABORATORY WITH THE CONTACT PHONE NUMBER. PROVIDE UNIT DESCRIPTION AND SYSTEM NAME OF THE PANEL SYSTEM TESTED. INCLUDE THE TEST DRAWINGS WITH ELEVATIONS WITH DETAILS SHOWING THE TESTED PANEL . IOINERY

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DATE OF ORIGINAL ISSU 08/30/2023

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D. SHOP DRAWINGS: INDICATE LAYOUT, CONFIGURATION, UNIT IDENTIFICATION MARKS, CONNECTION DETAILS, SUPPORT ITEMS, DIMENSIONS, OPENINGS, EDGE DETAILS AND RELATIONSHIP TO ADJACENT COMPONENTS. INDICATE LOCATIONS FOR BLOCKING AND EMBEDDED ITEMS. SUBMIT TWO PANELS 12" x 12" IN SIZE ILLUSTRATING SURFACE FINISH, COLOR, AND TEXTURE, DOCUMENTS SHOWING PRODUCT COMPLIANCE WITH APPLICABLE BUILDING CODES. THESE DOCUMENTS SHALL INCLUDE DOCUMENTS SUCH AS APPROPRIATE EVALUATION REPORTS AND/OR TEST REPORTS SUPPORTING THE USE OF THE PRODUCT.

E. FABRICATE TO PROFILES INDICATED ON THE DRAWINGS. EXTERIOR SHEET: PRE-COATED STOCK; FABRICATED TO PREVENT OIL-CANNING. INTERNAL AND EXTERNAL CORNERS: SAME MATERIAL AS FACE OF PANELS. PROVIDE TRIM, CLOSURES, PIECES, CAPS AND FLASHINGS AS REQUIRED FOR A FINISHED WATERTIGHT APPLICATION. PROVIDE GASKETS AS REQUIRED TO PREVENT REACTIONS WITH DISSIMILAR MATERIALS.

F. PLANS, ELEVATIONS, DETAILS, CHARACTERISTICS, AND OTHER REQUIREMENTS INDICATED ARE BASED UPON STANDARDS BY ONE MANUFACTURER.

G. SYSTEM MUST PROVIDE A PERFORMED FILLER THAT IS WATERTIGHT AT REVEAL JOINTS OR A WET SEAL AS REQUIRED. IF A WET SEAL IS USED, THE SEALANT TYPE SHALL BE SPECIFIED IN SECTION 07900 AND WITH FOAMED BACKER ROD. THE SYSTEM MUST NOT GENERALLY HAVE ANY VISIBLE FASTENERS, TELEGRAPHING OR FASTENING ON THE PANEL FACES OR ANY OTHER COMPROMISE OF A NEAT AND FLAT APPEARANCE. FABRICATE PANEL SYSTEM TO DIMENSION, SYSTEM, AND PROFILE INDICATED ON THE DRAWINGS BASED ON A DESIGN TEMPERATURE OF 70 DEGREES F. FABRICATE PANEL SYSTEM SO THAT NO RESTRAINTS CAN BE PLACED ON THE PANEL WHICH MIGHT RESULT IN COMPRESSIVE SKIN STRESSES. THE INSTALLATION DETAILING SHALL BE SUCH THAT THE PANELS REMAIN FLAT REGARDLESS OF TEMPERATURE CHANGE AND AT ALL TIMES REMAIN AIR AND WATER TIGHT.

H. ERECTION: ERECT UNITS WITHOUT DAMAGE TO SHAPE OR FINISH. REPLACE OR REPAIR DAMAGED PANELS. ERECT MEMBERS LEVEL AND PLUMB WITHIN ALLOWABLE TOLERANCES. ALIGN AND MAINTAIN UNIFORM HORIZONTAL AND VERTICAL JOINTS, AS ERECTION PROGRESSES. FASTEN UNITS IN PLACE AND USE CONCEALED FASTENING SYSTEMS. SEAL AND PLACE GASKETS TO PREVENT WEATHER PENETRATION. MAINTAIN NEAT APPEARANCE. ANCHOR PANELS SECURELY PER ENGINEERING RECOMMENDATIONS AND IN ACCORDANCE WITH WITH APPROVED SHOP DRAWINGS TO ALLOW FOR THE NECESSARY THERMAL MOVEMENT AND STRUCTURAL SUPPORT. DO NOT CUT, TRIM, WELD, OR BRAZE COMPONENT PARTS DURING ERECTION IN A MANNER WHICH WOULD DAMAGE THE FINISH, DECREASE STRENGTH, OR RESULT IN VISUAL IMPERFECTION OR A FAILURE IN PERFORMANCE. RETURN COMPONENT PARTS WHICH REQUIRE ALTERATION TO SHOP FOR PREFABRICATION, IF POSSIBLE, OR FOR REPLACEMENT WITH NEW PARTS. SEPARATE DISSIMILAR METALS AND USE GASKETED FASTENERS WHERE NEEDED TO ELIMINATE THE POSSIBILITY OF GALVANIC ACTIONS.

I. ADJUSTING: REMOVE AND REPLACE PANELS DAMAGED BEYOND REPAIR AS A DIRECT RESULT OF THE PANEL INSTALLATION. AFTER INSTALLATION, PANEL REPAIR AND REPLACEMENT SHALL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ADJUST UNITS SO THAT JOINTS ARE WITHIN TOLERANCES. MAKE SURE WEEP HOLES AND DRAINAGE CHANNELS ARE UNOBSTRUCTED AND FREE OF DIRT AND SEALANTS.

J. REMOVE TEMPORARRY PROTECTIVE COVERINGS AND STRIPPABLE FILMS, IF ANY, AS METAL PANELS ARE INSTALLED, UNLESS OTHERWISE INDICATED. ON COMPLETIONS OF METAL WALL PANEL INSTALLATION, CLEAN FINISHED SURFACES AS RECOMMENDED BY METAL WALL PANEL MANUFACTURER. MAINTAIN IN A CLEAN CONDINTION DURING CONSTRUCTION.

K. WARRANTY: PROVIDE TEN YEAR MATERIAL WARRANTY WHICH WILL NOT EXHIBIT ANY VISUALLY OBSERVABLE DEFORMATION AS A RESULT OF DEFORMATION OF THE ALUMINUM SKIN FROM THE CORE MATERIAL DUE TO MAUFACTURING DEFECTS OR FAIL TO COMPLY WITH SPECIFICATION FOR MANUFACTURING PAINTS.IN ADDITION, MANUFACTURER WARRANTS THAT THE COATING WILL NOT CHALK IN EXCESS OF A NUMERICAL RATING OF EIGHT MEASURED IN ACCORDANCE WITH THE STANDARD PROCEDURES AND WILL NOT FADE OR CHANGE IN COLOR IN EXCESS OF FIVE COLOR DIFFERENCE UNITS. THE PRODUCT WILL NOT EXPERIENCE A LOSS OF GLOSS THAT EXCEEDS 40% WHEN MEASURED ON VERTICAL SURFACE.

07510: TPO ROOFING

A. SPECIFICATION DESCRIBES TWO-PLY MODIFIED BITUMEN ROOFING OVER EXT. PLYWOOD DECK.

B. COMPLY WITH:

1. UL - UNDERWRITERS LABORATORIES MINIMUM CLASS B REQUIRED 2. FM - FACTORY MUTUAL

3. ALL APPLICABLE BUILDING CODES

C. AS MANUFACTURED BY TAMKO OR EQUAL. USE 107FR SBS MODIFIED BITUMEN ROOF MEMBRANE WITH MATERIAL REQUIREMENTS WITH NO LESS THAN THE FOLLOWING FOR EACH OF 100 SQUARE FEET OF ROOF AREA:

1. 3" POLYISOCYANURATE AND 1/2" FIBERBOARD 2. BASE SHEET - 1-PLY OF TAMKO VERSA-BASE MOPPED IN AT RIGHT

ANGLES TO SLOPE OF ROOF.

3.. GRANULAR SURFACE SHEET - 1-PLY OF AWAPLAN PREMIUM FR MOPPED OVER BASE SHEET IN SAME DIRECTION WITH MIN. 4" OVERLAP AND 6" END LAP. 4. ACCESSORIES AND FLASHING MATERIALS AS REQUIRED.

D. COMPLY WITH SYSTEM MANUFACTURER'S CURRENT PUBLISHED INSTRUCTIONS FOR INSTALLATION OF SYSTEM AS APPLICABLE TO EACH TYPE OF SUBSTRATE INDICATED.

E. SUBSTRUCTURE: SEE STRUCTURAL DWGS. DECK SHALL NOT BE LESS THAN

5/8" EXTERIOR PLYWOOD DECKING.

F. WARRANTY: 10 YEAR.

G. FLASHING- ONE PLY FULLY ADHERED BITUMEN GRANULE SURFACED CAP SHEET.

H. PROVIDE ALTERNATE PRICING FOR MECHANICALLY ATTACHED TPO MEMBRANE ROOF SYSTEM. PROVIDE FIRESTONE ULTRAPLY TPO MECHANICALLY ATTACHED WITH 3" MIN. POLYISO INSULATION AND 1/2" FIBERBOARD WITH BITUMEN GRANULE CAP SHEET FLASHING.

07600: SHEET METAL

A. WORK INCLUDES GALVANIZED SHEET METAL, FLASHINGS, CONDUCTOR HEADS AND DOWNSPOUTS.

B. REFERENCE STANDARDS AND SPECIFICATIONS: 1. ARCHITECTURAL SHEET METAL MANUAL, PUBLISHED BY SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA) 2. COMPLY WITH SMACNA UNLESS OTHERWISE NOTED

3. GALVANIZED SHEET STEEL TO CONFORM WITH ASTM A526, COMMERCIAL QUALITY, ASTM A525 COATING DESIGNATION G90.

C. SUBMITTALS: INDICATE COMPONENT DETAILS, MATERIALS, FINISHES, CONNECTIONS AND JOINING METHODS, AND RELATIONSHIP TO ADJOINING WORK. PROVIDE CATALOG CUTS AND SPECIFICATIONS FOR MANUFACTURED ITEMS.

D. SELECT METHODS OF FABRICATION, ASSEMBLY AND INSTALLATION: FABRICATE IN ACCORD WITH THE BEST TRADE PRACTICES WITH JOINTS AND CORNERS ACCURATELY MACHINED, FILED AND FITTED, AND RIGIDLY FRAMED TOGETHER AND CONNECTED. MATCH COMPONENTS TO PRODUCE PERFECT CONTINUITY OF LINE AND DESIGN. SOLDER JOINTS AND CONNECTIONS IN EXTERIOR FACE OF METAL WATERTIGHT EXCEPT WHERE EXPANSION IS REQUIRED. CONCEAL FASTENERS AS SHOWN ON DRAWINGS. CONCEAL REINFORCEMENT WITHIN THE FINISHED ASSEMBLY.

E. AS MANUFACTURED BY QUALIFIED FABRICATOR, FLASHING SHALL BE FABRICATED FROM 22 GAGE GALVANIZED SHEET STEEL WITH CORNERS LAPPED AND SOLDERED WATERTIGHT, FIELD PAINTED AS REQUIRED; SCUPPERS ETC., FABRICATED FROM 20 GAGE GALVANIZED SHEET STEEL, OR AS OTHERWISE NOTED, IN ACCORD WITH DRAWINGS, FIELD PAINTING REQUIRED; DOWNSPOUTS AND CONDUCTOR HEADS WITH BUILT-IN OVERFLOWS, FABRICATE FROM 16 GAGE GALVANIZED SHEET STEEL, WITH SUPPORT BRACKETS 16 GAGE OR AS OTHERWISE NOTED, IN ACCORD WITH THE DRAWINGS, FIELD PAINTING AT GALVANIZED METAL TO MATCH SURROUNDING WALL COLOR OR AS INDICATED ON DRAWINGS.

07900: SEALANT

A. REQUIREMENTS OF THIS SECTION PERTAIN TO ALL SEALANTS AND CAULKING THROUGH THE PROJECT.

B. PERFORM JOINT PREPARATION, INCLUDING CLEANING AND PRIMING, IN ACCORD WITH MANUFACTURERS' INSTRUCTIONS. WHEN SOLVENTS ARE USED, WIPE THE DISSOLVED CONTAINMENT AND SOLVENT FROM THE SURFACE PROMPTLY. WARRANT SEALANTS AND CAULKING USED THROUGHOUT AGAINST ALL DEFECTS FOR A PERIOD OF 10 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.

C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEALANTS PROPOSED BY VARIOUS INTERFACING TRADES AS REQUIRED TO ASSURE ABSOLUTE COMPATIBILITY OF SEALANTS.

D. AS MANUFACTURED BY APPROVED SEALANT MANUFACTURERS. THE SEALANT COMPOUND TYPES SHALL BE STAIN RESISTANT AND APPLICABLE WITH PAINT AS REQUIRED. PROVIDE EXPANSION JOINT SEALER FOR USE WHEN SEALER IS CONCEALED IN THE FINISH WORK SUCH AS AT TELESCOPING JOINTS IN WINDOW FRAMES, FASCIAS, GRAVEL STOPS, ETC. COMPRESSIBLE JOINT FILLERS SHALL BE USED IN CONJUNCTION WITH OTHER SEALANTS SO AS NOT TO CAUSE DETERIORATION THROUGH CONTACT WITH THE SEALANT OR REQUIRED PRIMERS.

E. PRIMERS SHALL BE USED AS RECOMMENDED BY THE SEALANT MANUFACTURER FOR USE IN CONJUNCTION WITH THE SEALANT FOR APPLICATION ONTO THE VARIOUS TYPES OF MATERIALS TO WHICH THE SEALANT IS APPLIED.

F. PREFORMED COMPRESSIBLE JOINT FILLERS SHALL BE STANDARD BRAND CONFORMING TO ASTM D1752, TYPE II OR III, OR ROMEX EXPANSION JOINT, MANUFACTURED BY THE HOMOSOTE CO., OR APPROVED EQUAL JOINT FILLERS. COLORS TO MATCH ADJACENT SURFACES.

G. APPLY MATERIAL WITH SUFFICIENT PRESSURE TO COMPLETELY FILL THE VOID SPACE AND ASSURE COMPLETE WETTING OF THE CONTACT AREA TO OBTAIN UNIFORM ADHESION. FINISH JOINTS SMOOTHLY AND FLUSH WITH ADJACENT SURFACE UNLESS DETAILED OTHERWISE.

H. DO NOT ALLOW SEALANTS TO REMAIN ON ADJACENT FINISHED SURFACES. DIVISION EIGHT - DOORS AND WINDOWS

08110: STEEL DOORS AND FRAMES A. QUALITY STANDARDS: 1. SDI-100 - RECOMMENDED SPECIFICATIONS - STANDARD STEEL DOORS AND FRAMES, STEEL DOOR INSTITUTE.

2. UNDERWRITERS' LABORATORIES, INC. (UL) OR FACTORY MUTUAL (FM) STANDARDS AS APPLICABLE TO FIRE RATED HOLLOW METAL DOORS. 3. NAAMM – HOLLOW METAL TECHNICAL AND DESIGN MANUAL, NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS.

B. SHOP DRAWINGS: INDICATE PERTINENT DIMENSIONING, GENERAL CONSTRUCTION, COMPONENT CONNECTIONS AND LOCATIONS, ANCHOR METHODS AND LOCATIONS, INSTALLATION DETAILS.

C. ALL DOORS AND FRAMES SHALL BE AS MANUFACTURED BY REPUBLIC, OR APPROVED EQUAL AND MEET OR EXCEED REPUBLIC WRITTEN SPECIFICATIONS.

D. HOLLOW METAL DOORS AND PRESSED STEEL FRAMES. 1. INTERIOR METAL PRIMED; EXTERIOR METAL ZINC COATED AND PRIMED; REINFORCE FOR HARDWARE. 2. DOORS: FLUSH; SEAMLESS; EDGE JOINTS CONTINUOUSLY WELDED AND GROUND SMOOTH; NOT LESS THAN 18 GAUGE. 3. FRAMES: PRE-ASSEMBLED WELDED TYPE; CORNER MITERED, CONTINUOUSLY WELDED, GROUND AND FINISHED SMOOTH. GAUGE: 16 GAUGE MINIMUM. 4. LOUVERS: ROLL FORMED STEEL MATERIAL, INVERTED V'BLADE, WITH TAMPERPROOF FASTENERS. 5. RUBBER SILENCERS: RESILIENT RUBBER.

PREPARED FOR COUNTERSINK STYLE TAMPERPROOF SCREWS. 7. PROVIDE RATED FRAMES WHERE REQUIRED.

E. INSTALL PLUMB, LEVEL AND FREE OF WARP, TWIST OR SHAKING. MAINTAIN ALIGNMENT WITH ADJACENT WORK.

08410: ALUMINUM ENTRANCES AND STOREFRONTS

A. WORK INCLUDES: 1. ALUMINUM AND GLASS DOORS AND FRAMES. 2. ALUMINUM STOREFRONT AND GLAZING 3. INSTALLATION OF PERIMETER SEALANTS IN SECTION 07900 4. ALUMINUM WINDOW ASSEMBLIES

B. REFERENCES AND STANDARDS INCLUDE:

I. NAAMM-METAL FINISHES MANUAL 2. AAMA - METAL CURTAIN WALL, WINDOW, STOREFRONT, AND ENTRANCE GUIDE SPECIFICATIONS MANUAL

3. FGMA - GLAZING MANUAL

4. ANSI A156.19 - POWER ASSIST AND LOW ENERGY POWER OPERATED DOORS 5. ANSI A117.1 - SPECIFICATIONS FOR MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO AND USEABLE BY PHYSICALLY HANDICAPPED PEOPLE.

6. NEMA MG 1 - MOTORS AND GENERATORS

7. NFPA 101 - CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES. 8. UL 325 - ELECTRIC DOOR, DRAPERY, GATE, LOUVER AND WINDOW

OPERATORS AND SYSTEMS.

C. ALUMINUM ENTRANCES AND STOREFRONT SYSTEMS INCLUDES TUBULAR ALUMINUM SECTIONS WITH SUPPLEMENTARY INTERNAL SUPPORT FRAMING, SHOP FABRICATED, FACTORY PRE-FINISHED, VISION GLASS, RELATED FLASHINGS, ANCHORAGE AND ATTACHMENT DEVICES.

D. DESIGN AND SIZE COMPONENTS TO WITHSTAND DEAD AND LIVE LOADS CAUSED BY POSITIVE AND NEGATIVE WIND PRESSURE ACTING NORMAL TO PLANE OF WALL AS CALCULATED IN ACCORDANCE WITH LOCAL CODE AS MEASURED IN ACCORDANCE WITH ANSI / ASTM E330.

E. LIMIT MULLION DEFLECTION TO FLEXURE LIMIT OF GLASS 3/4 INCH 1/200; WITH FULL RECOVERY OF GLAZING MATERIALS.

F. SYSTEM TO ACCOMMODATE, WITHOUT DAMAGE TO COMPONENTS OR DETERIORATION OF SEALS, MOVEMENT WITHIN SYSTEM, MOVEMENT BETWEEN SYSTEM AND PERIPHERAL CONSTRUCTION, DYNAMIC LOADING AND RELEASE OF LOADS, DEFLECTION OF STRUCTURAL SUPPORT FRAMING.

G. SYSTEM TO PROVIDE FOR EXPANSION AND CONTRACTION WITH SYSTEM COMPONENTS CAUSED BY A CYCLING TEMPERATURE RANGE OF 170 DEGREES F OVER A 12 HOUR PERIOD WITHOUT CAUSING DETRIMENTAL AFFECT TO SYSTEM COMPONENTS.

H. DRAIN WATER ENTERING JOINTS. CONDENSATION OCCURRING IN GLAZING CHANNELS, OR MIGRATING MOISTURE OCCURRING WITHIN THE SYSTEM, TO THE EXTERIOR BY A WEEP DRAINAGE NETWORK.

I. SHOP DRAWINGS: INDICATE LAYOUT AND DIMENSION; HEAD, JAMB, AND SILL CONDITIONS; ELEVATIONS; COMPONENTS, ANCHORAGE, RECESSES, MATERIALS AND FINISHES. VERIFY DIMENSIONS BY TALIKNG FIELD MEASUREMENTS. OF EXIST. CONDITIONS.

J. SUBMIT THREE SAMPLES OF EACH TYPE OF GLASS AND ALUMINUM FINISH.

K. STOREFRONT COMPONENTS TO BE KAWNEER TRIFAB VG451 CLEAR ANODIZED FINISH FACTORY FINISHED TO EXPOSED SURFACES OR APPROVED EQUAL. FRAMES EQUIPPED WITH DRAINAGE HOLES, GLAZING STOPS, INTERNAL WEEP DRAINAGE SYSTEMS, REINFORCED MULLIONS AS REQUIRED. PROVIDE PATTERNED FRIT APPROVED BY ARCHITECT IN AREAS THAT REQUIRE ADDITIONAL PROTECTION FROM HEAT GAIN DUE TO BUILDING ORIENTATION OR REGIONS. GLAZING MATERIALS TO BE OF TYPE RECOMMENDED BY DOOR AND FRAME MANUFACTURER TO SUIT LOCATIONS AND APPLICATIONS.

L. TOLERANCES: MAXIMUM VARIATION FROM PLUMB - 0.06 INCHES EVERY 3 FEET NON-CUMULATIVE OR 1/16 INCHES PER 10 FT. WHICHEVER IS LESS. MAXIMUM MISALIGNMENT OF TWO ADJOINING MEMBERS ABUTTING IN PLACE IS 1/32 INCH. M. DOOR CONSTRUCTION: 1 3/4" OVERALL THICKNESS, WITH MINIMUM 0.125-INCH THICK EXTRUDED-ALUMINUM TUBULAR RAIL AND STILE MEMBERS.

6. GLAZING STOPS: ROLLED STEEL CHANNEL SHAPE, MITERED CORNERS;

 A. WORK INCLUDES: 1. ALUMINUM AND GLASS DOORS AND FRAMES. 2. ALUMINUM STOREFRONT AND GLAZING 3. INSTALLATION OF PERIMETER SEALANTS IN SECTION 07900 	088 a. ref
4. ALUMINUM WINDOW ASSEMBLIES	1. 2. 3.
 B. REFERENCES AND STANDARDS INCLUDE: 1. NAAMM-METAL FINISHES MANUAL 2. AAMA - METAL CURTAIN WALL, WINDOW, STOREFRONT, AND ENTRANCE 	B. ACC
GUIDE SPECIFICATIONS MANUAL 3. FGMA — GLAZING MANUAL 4. ANSI A156.19 — POWER ASSIST AND LOW ENERGY POWER OPERATED DOORS	C. GLA CONFO
5. ANSI A117.1 – SPECIFICATIONS FOR MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO AND USEABLE BY PHYSICALLY HANDICAPPED PEOPLE.	MARKS 1. AT
6. NEMA MG 1 – MOTORS AND GENERATORS 7. NFPA 101 – CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES.	TE PL
8. UL 325 — ELECTRIC DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS.	WI 2. 3.
C. ALUMINUM ENTRANCES AND STOREFRONT SYSTEMS INCLUDES TUBULAR ALUMINUM SECTIONS WITH SUPPLEMENTARY INTERNAL SUPPORT FRAMING, SHOP	WI
FABRICATED, FACTORY PRE-FINISHED, VISION GLASS, RELATED FLASHINGS, ANCHORAGE AND ATTACHMENT DEVICES.	D. SEA By do' betwee
D. DESIGN AND SIZE COMPONENTS TO WITHSTAND DEAD AND LIVE LOADS CAUSED BY POSITIVE AND NEGATIVE WIND PRESSURE ACTING NORMAL TO PLANE OF WALL	E. SET 3/8"1
AS CALCULATED IN ACCORDANCE WITH LOCAL CODE AS MEASURED IN ACCORDANCE WITH ANSI / ASTM E330.	F. WHE
E. LIMIT MULLION DEFLECTION TO FLEXURE LIMIT OF GLASS 3/4 INCH 1/200; WITH FULL RECOVERY OF GLAZING MATERIALS.	MANUF 1. CH
F. SYSTEM TO ACCOMMODATE, WITHOUT DAMAGE TO COMPONENTS OR DETERIORATION OF SEALS, MOVEMENT WITHIN SYSTEM, MOVEMENT BETWEEN SYSTEM AND PERIPHERAL CONSTRUCTION, DYNAMIC LOADING AND RELEASE OF LOADS, DEFLECTION OF STRUCTURAL SUPPORT FRAMING.	G. MAF FRAMIN OF GLA
G. SYSTEM TO PROVIDE FOR EXPANSION AND CONTRACTION WITH SYSTEM COMPONENTS CAUSED BY A CYCLING TEMPERATURE RANGE OF 170 DEGREES F OVER A 12 HOUR PERIOD WITHOUT CAUSING DETRIMENTAL AFFECT TO SYSTEM COMPONENTS.	H. MIRI A CON I. REMO
H. DRAIN WATER ENTERING JOINTS, CONDENSATION OCCURRING IN GLAZING CHANNELS, OR MIGRATING MOISTURE OCCURRING WITHIN THE SYSTEM, TO	SEALAN
THE EXTERIOR BY A WEEP DRAINAGE NETWORK.	DIVISI
I. SHOP DRAWINGS: INDICATE LAYOUT AND DIMENSION; HEAD, JAMB, AND SILL CONDITIONS; ELEVATIONS; COMPONENTS, ANCHORAGE, RECESSES, MATERIALS AND FINISHES. VERIFY DIMENSIONS BY TALIKNG FIELD MEASUREMENTS. OF EXIST. CONDITIONS.	09250
J. SUBMIT THREE SAMPLES OF EACH TYPE OF GLASS AND ALUMINUM FINISH.	A. SKIM TO RECE
K. CURTAINWALL COMPONENTS TO BE KAWNEER 1600 SYSTEM CLEAR ANODIZED FINISH FACTORY FINISHED TO EXPOSED SURFACES OR APPROVED EQUAL. FRAMES	B. REFE RECOMM
EQUIPPED WITH DRAINAGE HOLES, GLAZING STOPS, INTERNAL WEEP DRAINAGE SYSTEMS, REINFORCED MULLIONS AS REQUIRED. PROVIDE PATTERNED FRIT APPROVED BY ARCHITECT IN AREAS THAT REQUIRE ADDITIONAL PROTECTION FROM	SECTION 1. / 2. /
HEAT GAIN DUE TO BUILDING ORIENTATION OR REGIONS. GLAZING MATERIALS TO BE OF TYPE RECOMMENDED BY DOOR AND FRAME MANUFACTURER TO SUIT	BAC 3. /
LOCATIONS AND APPLICATIONS. MINIMUM WALL THICKNESS FOR STRUCTURAL EXTRUSIONS: 1/8". LOCATIONS AND APPLICATIONS. MINIMUM WALL THICKNESS FOR NON-STRUCTURAL EXTRUSIONS: 1/16".	4. 7 BLA BUII
L. TOLERANCES: MAXIMUM VARIATION FROM PLUMB – 0.06 INCHES EVERY 3 FEET NON-CUMULATIVE OR 1/16 INCHES PER 10 FT. WHICHEVER IS LESS. MAXIMUM	5. <i>v</i> OF
MISALIGNMENT OF TWO ADJOINING MEMBERS ABUTTING IN PLACE IS 1/32 INCH. M. DOOR CONSTRUCTION: 1 3/4" OVERALL THICKNESS, WITH MINIMUM 0.125-INCH THICK	6. / MA1 7
EXTRUDED-ALUMINUM TUBULAR RAIL AND STILE MEMBERS.	7. / 8. (Ane
08300: OVERHEAD DOORS-NOT USED	9. f Indi
A. REGULATORY REQUIREMENTS: 1. ELETRICAL COMPONENTS UL LISTED.	DES AUT
2. ELECATRICAL CONTROL PANEL NEMA APPROVED. B. SHOP DRAWINGS: INDICATE PERTINENT DIMENSIONING, GENERAL CONSTRUCTION,	C. ALLO 1. (
COMPONENT CONNECTIONS AND LOCATIONS, ANCHOR METHODS AND LOCATIONS, INSTALLATION DETAILS. FIELD VERIFY MEASUREMENTS ARE AS ON SHOP DRAWINGS.	CEIL 2. F LEV
C. ALL DOORS AND FRAMES SHALL BE AS MANUFACTURED BY RYTEC CORP. OR APPROVED EQUAL AND MEET OR EXCEED RYTEC WRITTEN SPECIFICATIONS.	AT
D. HIGH-SPEED ROLL-UP DOORS 1. FURNISH HIGH-SPEED ROLL-UP DOORS AND ALL COMPONENTS AND	D. PROE MATERIA
ACCESSORIES BY ONE MANUFACTURER. 2. DOOR PANEL: DOUBLE-WALLED ALUMINUM SLATS 6 INCHES HIGH BY 1 3/16' THICK.	E. FRAM 1. S
3. SIDE FRAMES: GALVANIZED STEEL SIDE FRAMES WITH FULL HEIGHT WEATHERSEAL ON BOTH SIDES TO SEAL AGAINST DOOR PANEL.	2. F 3. E 4. F
4. DRIVE SYSTEM: MINIMUM 2 HP MOTOR WITH VARIABLE SPEED AC DRIVE. 5. TRAVEL SPEED: OPENS UP TO 60 INCHES PER SECOND AND CLOSES AT 30 INCHES PER SECOND.	4. r 5. e Met
6. DOOR TRACK: SPIRAL ROLLUP DESIGN DESIGN FEATURES NO METAL-TO-METAL CONTACT. 7. WINDLOAD: DOOR TESTING INDICATES THE DOOR IS CAPABLE OF WITHSTANDING WINDS	6. S SQL
UP TO AND EXCEEDING 88 MPH(20 PSF). 8. ALL COMPONENTS FACTORY FINISHED.	7. F PER UNL
E. INSTALL DOOR UNIT ASSEMBLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. USE ANCHORAGE DEVICES TO SECURELY FASTEN ASSEMBLY TO WALL CONSTRUCTION AND BUILDING FRAMING WITHOUT DISTORTION OR STRESS. FIT AND ALIGN ASSEMBLY INCLUDING HARDWARE; LEVEL	8. (9. E
TO PLUMB TO PROVIDE SMOOTH OPERATION.	10. ADH 11.
F. WARRANTY: ONE YEAR PARTS, ONE YEAR LABOR.	PUR SUR
08700: HARDWARE	12. NO
A. SUBMITTALS:	13. FRIC FLA
1. SUBMIT FOR ARCHITECT'S REVIEW A LIST OF HARDWARE GROUPS FROM THE REQUIREMENTS OF THE DRAWINGS AND THESE SPECIFICATIONS. 2. PRODUCT DATE: SUBMIT MANUFACTURER'S CATALOG CUTS, FINISHES,	OR 14.
ETC., FOR ARCHITECT'S REVIEW. 3. SAMPLES: PROVIDE SAMPLES FOR APPROVAL PER ARCHITECT'S DIRECTION.	WITH 15. CON
B. PROVIDE ITEMS AS REQUIRED AND AS SHOWN ON DRAWINGS, COMPLETE TO FUNCTION AS INTENDED.	F. EREC
C. FURNISH SCREWS, BOLTS, NUTS, EXPANSION SHIELDS, SHIM PLATES, ANCHORS AND OTHER FASTENERS OF SUITABLE TYPES AND SIZES RECOMMENDED BY MANUFACTURER AND AS REQUIRED TO INSTALL HARDWARE SECURELY TO	1. E 2. / TRA VER
WITHSTAND HARD USAGE OVER LONG LIFE. FINISH SHALL MATCH HARDWARE. D. MAKE PROVISIONS AND COORDINATE REQUIREMENTS FOR MECHANICAL AND	LAT G. DOOF
ELECTRICAL DEVICES IN CONNECTION WITH HARDWARE.	FROM FI AND HE
E. SEE DRAWINGS FOR HARDWARE GROUPS, GROUP LOCATIONS AND DOOR TYPES. F. CLOSERS: SIZES AS RECOMMENDED BY MANUFACTURER EXCEPT WHERE	STUDS.
SCHEDULE CALLS FOR LARGER SIZE. 1. MAKE LABELED DOORS SELF-CLOSING.	H. BLOC Toilet f
2. CLOSERS SHALL BE ADJUSTED BY FACTORY REPRESENTATIVE, TO MEET REQUIREMENTS OF REGULATORY AGENCIES AND A.D.A.	
G. HEIGHTS UP FROM FLOOR UNLESS OTHERWISE STATED SHALL BE SUBJECT TO ACCESSIBILITY STANDARDS OF THE STATE AND THE AMERICAN WITH DISABILITIES ACT (A.D.A.) HEIGHTS OF ITEMS NOT SHOWN ON DRAWINGS SHALL BE IN	HARDWA

08413: GLAZED ALUMINUM CURTAIN WALLS-NOY USED

ACCESSIBILITY STANDARDS OF THE STATE AND THE AMERICAN WITH DISABILITIES ACT (A.D.A.). HEIGHTS OF ITEMS NOT SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF BUILDERS HARDWARE ASSOCIATION AND FEDERAL AND STATE LAWS, SUBJECT TO APPROVAL BY ARCHITECT.

H. AFTER INSTALLATION OF HARDWARE AND AFTER AIR CONDITIONING IS OPERATING, A FINAL INSPECTION SHALL BE MADE BY THE HARDWARE SUPPLIER. OR HIS AGENT. MAKE ADJUSTMENTS RECOMMENDED BY THE ARCHITECT AND ARCHITECTURAL HARDWARE SUPPLIER OR HIS AGENT. AND DELIVER INSTRUCTIONS FOR MAINTENANCE AND FUTURE ADJUSTMENTS TO THE OWNER.

08800: GLAZING

EFERENCES: FGMA – GLAZING MANUAL

FGMA - GLAZING SEALING SYSTEMS MANUAL RELATED SECTION (SECTION 08410)

CCEPTABLE GLASS MANUFACTURERS: PPG, LOF, ARMOUR, OR FORD GLASS.

LASS: TEMPERED GLASS: CLEAR, THICKNESS AS SCHEDULED; FORMING TO FS DD-G-1403, KIND FT AND ANSI Z97.1. EXPOSED TONG

KS SHALL NOT BE PERMITTED INSULATED GLASS PANELS : 1" INSULATED GLASS THICKNESS, FACTORY CHAMFERED & POLISHED AT EXPOSED EDGES. CUT PRIOR TO TEMPERING, TO TOLERANCES NECESSARY TO PROVIDE EVEN JOINTS WITHIN

PLUS OR MINUS 1/16". STOREFRONT ASSEMBLY TO BE DESIGNED TO WITHSTAND WIND LOADS PER LOCAL CODES. . 4-SIDED SUPPORT GLAZING: 1/4" THICK. CUT PRIOR TO TEMPERING. . GLASS PATTERNS: CLEAR GLASS, OR AS NOTED ON DRAWINGS &/OR WINDOW SCHEDULE.

EALANT: STRUCTURAL SILICONE TYPE DESIGNED FOR GLAZING, MANUFACTURED OW OR G.E. PROVIDE WHITE AT CEILING, AND BLACK AT FLOOR, AND CLEAR EEN GLAZING PANELS

TTING BLOCKS: NEOPRENE; 70-90 DUROMETER HARDNESS; 4" LONG X THICK X 1/4" HIGH.

HENEVER POSSIBLE, USE GLASS SETTING MATERIALS PROVIDED BY FRAME JEACTURERS. . AT TOP AND BOTTOM OF BUTT GLAZED PANELS PROVIDE METAL

CHANNELS OF SIZE REQUIRED TO SUPPORT GLASS, AND AS DETAILED.

ARK GLASS AFTER INSTALLATION BY CROSSED STREAMERS ATTACHED TO MING AND HELD AWAY FROM GLASS; DO NOT APPLY MARKERS TO SURFACE GLASS.

IIRROR ATTACHMENT: INSTALL WHERE SHOWN USING MIRROR ADHESIVE WITH ONTINUOUS MIRROR MOLDING AT BOTTOM TO SUPPORT MIRRORS.

MOVE NON PERMANENT LABELS AND EXCESS SEALANT IMMEDIATELY AFTER LANT CURES; CURE SEALANT FOR HIGH EARLY STRENGTH AND DURABILITY.

SION NINE - FINISHES

50: GYPSUM BOARD SYSTEMS

(IM COAT APPLICATIONS AT ALL NEW GYPSUM BOARD SURFACES NOTED ECEIVE GLOSS OR SEMI-GLOSS PAINT UNLESS OTHERWISE NOTED.

FERENCE SPECIFICATIONS AND STANDARDS; COMPLY WITH MANUFACTURER'S MMENDATIONS AND THE FOLLOWING UNLESS OTHERWISE SPECIFIED IN THIS ON. IN CASE OF CONFLICT, COMPLY WITH THE MOST STRINGENT.

ASTM C36 - STANDARD SPECIFICATION FOR GYPSUM WALLBOARD ASTM C630 - STANDARD SPECIFICATION FOR WATER RESISTANT GYPSUM ACKING BOARD.

ASTM C442 - STANDARD SPECIFICATION FOR GYPSUM BACKING BOARD. ASTM C665 - STANDARD SPECIFICATION FOR MINERAL FIBER LANKET THERMAL INSULATION FOR WOOD FRAME AND LIGHT CONSTRUCTION

JILDINGS. ASTM C840 - STANDARD SPECIFICATION FOR APPLICATION AND FINISHING F GYPSUM BOARD.

ASTM C475 - STANDARD SPECIFICATION FOR JOINT TREATMENT ATERIALS FOR GYPSUM WALL BOARD CONSTRUCTION.

ASTM E119 - FIRE TESTS OF BUILDING CONSTRUCTION MATERIALS. GYPSUM ASSOCIATION RECOMMENDED SPECIFICATIONS FOR THE APPLICATION ND FINISHING OF GYPSUM BOARD.

PROVIDE FIRE-RESISTANCE RATED ASSEMBLIES IDENTICAL TO THOSE IDICATED BY REFERENCE TO THE GYPSUM ASSOCIATION "FIRE RESISTANCE ESIGN MANUAL" CURRENT EDITION OR AS OTHERWISE APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

_OWABLE TOLERANCES:

CEILING SUPPORT SYSTEM SHALL LIMIT DEFLECTION OF THE FINISHED EILING TO LESS THAN 1/360 OF SPAN. FOR FLAT SURFACES. THE MAXIMUM DEVIATION FROM TRUE PLUMB OR EVEL PLANE. 1/8" IN 10' AS MEASURED UNDER STRAIGHT EDGE PLACED ANY LOCATION ON SURFACE.

ODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL INFORMATION FOR RIALS TO BE USED AND INSTALLATION INSTRUCTIONS.

AMING MATERIALS:

STUDS: 6" METAL STUDS @ EXTERIOR WALLS- 3 5/8" MTL. STUDS @ INTERIOR WALLS. PLATES: MATCHING STUD. BRACING MATCHING STUDS

FASTENERS AND ANCHORAGES: PER REFERENCED STANDARDS.

BACKING PLATES: MINIMUM 14 GAUGE X 6" WIDE. APPLY COAT OF ETAL PRIMER. STANDARD GYPSUM BOARD: MAXIMUM PERMISSIBLE LENGTHS, ENDS

QUARE CUT, TAPERED EDGES, 5/8" THICK UNLESS OTHERWISE NOTED. FIRE RATED GYPSUM BOARD: TYPE X, UL RATED; MAXIMUM ERMISSIBLE LENGTHS; ENDS SQUARE CUT, TAPERED EDGES, 5/8"THICK JNLESS OTHERWISE NOTED.

CORNER BEADS: BEADEX B1W OR USG "DURABEAD."

EDGE TRIM: I METAL BEAD, USG #200-B OR BEADEX B-4. . GYPSUM BOARD JOINT TREATMENT; JOINT REINFORCING TAPE AND JOINT DHESIVE SHALL BE THE GYPSUM BOARD MANUFACTURER'S STANDARD PRODUCTS. . SKIM COAT COMPOUNDS: USE USG READY MIXED JOINT COMPOUND ALL JRPOSE AT GYPSUM BOARD AND DURABOND JOINT COMPOUND AT CONCRETE SURFACES.

. CEMENTITIOUS SEAL: CEMENTITIOUS FIREPROOFING CONTAINING VERMICULITE, NO ASBESTOS FIBERS, "MONOKOT" BY W. R. GRACE. 3. ACOUSTICAL INSULATION: NOISE BARRIER FIBERGLASS BATT INSULATION, RICTION FIT TYPE WITHOUT INTEGRAL VAPOR BARRIER MEMBRANE; WITH LAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50

OR LESS, PLENUM RATED IF REQUIRED. . ACOUSTICAL SEALANT: TYPE RECOMMENDED FOR USE IN CONJUNCTION ITH GYPSUM BOARD.

5. ACOUSTICAL FOAM GASKET; SELF-ADHESIVE ONE SIDE, HIGHLY OMPRESSIBLE ACOUSTIC FOAM TAPE, 1-1/2" X 1/8" CONTINUOUS ROLL.

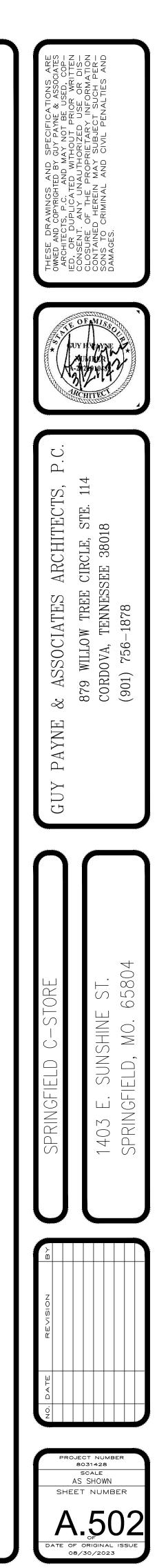
ECT METAL FRAMING IN ACCORDANCE WITH REFERENCED STANDARDS. DO NOT EXCEED MAXIMUM UNBRACED HEIGHT. AT NON-LOAD BEARING PARTITIONS, ISOLATE STUD SYSTEM FROM RANSFER OF STRUCTURAL LOADING TO SYSTEM BOTH HORIZONTALLY AND ERTICALLY. PROVIDE SLIP OR CUSHIONED TYPE JOINTS TO ATTAIN ATERAL SUPPORT AND AVOID AXIAL LOADING.

OR AND OPENING FRAMING. INSTALL DOUBLE STUDS AT JAMBS AND EXTEND FLOOR TO STRUCTURE ABOVE, SECURELY ATTACHED TO EACH OTHER, FLOOR HEAD. INSTALL RUNNER AT HEAD (FOR JACK STUDS) AND SECURE TO JAMB

OCKING: INSTALL WOOD BACKING FOR SUPPORT OF PLUMBING FIXTURES, PARTITIONS, WALL CABINETS, TOILET ACCESSORIES, HANDRAILS

WARE, MILLWORK CABINETRY, SHELVING, AND OTHER WALL MOUNTED ITEMS.

09250: CONTINUED ON SHEET A.503



09250: CONTINUED FROM SHEET A.502

I. LATERALLY BRACE SOFFITS AND PARTITIONS (NOT BRACED BY SUSPENDED CEILING SYSTEM) TO RESIST 5 PSF LATERAL LOAD AS REQUIRED BY BUILDING

- J. CEILING FRAMING INSTALLATION:
- 1. SPACE MAIN CARRYING CHANNELS AND HANGERS AT MAXIMUM 48" ON CENTER, UNLESS OTHERWISE INDICATED, AND NOT MORE THAN 6" FROM PERIMETER WALLS. 2. PLACE GYPSUM BOARD FURRING CHANNELS PERPENDICULAR TO CARRYING CHANNELS AT 16" ON CENTER FOR WR BOARD AND 24" ON
- CENTER FOR ALL OTHERS. 3. DUCT INTERFERENCE: WHERE WIDE AIR CONDITIONING DUCTS ABOVE GYPSUM BOARD CEILINGS INTERFERE WITH SUSPENSION HANGERS, PROVIDE INDEPENDENT FRAMING BELOW DUCTWORK TO SUPPORT THE CEILING AS AN OBLIGATION UNDER THIS SECTION. 4. LATERALLY BRACE ENTIRE SUSPENSION SYSTEM TO MEET SEISMIC REQUIREMENTS.
- K. INSTALL GYPSUM BOARD IN ACCORDANCE WITH REFERENCED STANDARDS 1. ERECT SINGLE-LAYER FIRE-RATED GYPSUM BOARD VERTICALLY WITH EDGES AND ENDS OCCURRING OVER FIRM BEARING. 2. PLACE CORNER BEADS AT EXTERNAL CORNERS. USE LONGEST PRACTICAL LENGTHS.
- 3. PLACE METAL EDGE TRIM WHERE GYPSUM BOARD TERMINATES, BUTTS DISSIMILAR MATERIALS, AND AS INDICATED ON DRAWINGS. 4. FINISH GYPSUM BOARD JOINTS, BEADS, TRIM, ETC., IN ACCORDANCE WITH REFERENCED STANDARDS TO PRODUCE SURFACE READY
- TO RECEIVE FURTHER APPLIED FINISH. FEATHER COMPOUND COATS ONTO ADJOINING SURFACES SO THAT CAMBER IS MAXIMUM 1/32". 5. SKIM COAT: SKIM COAT REQUIREMENTS APPLY TO GYPSUM BOARD SURFACES PREVIOUSLY NOTED.

L. PLACE ACOUSTICAL INSULATION FULL HEIGHT IN PARTITIONS, TIGHT WITHIN SPACES, AROUND CUT OPENINGS, BEHIND AND AROUND ELECTRICAL AND MECHANICAL ITEMS WITHIN OR BEHIND PARTITIONS, AND TIGHT TO ITEMS PASSING THROUGH PARTITIONS.

1. PLACE ACOUSTICAL SEALANT AT PERIMETER OF ALL PARTITIONS NOTED ON DRAWINGS TO BE SOUND WALLS.

M. INSTALL SELF-ADHESIVE FOAM ACOUSTIC GASKET WHERE CEILING TRACK ABUTS ACOUSTICAL CEILING AT PARTITION HEAD AND WHERE ALL ACOUSTIC PARTITIONS ABUT EXTERIOR WALL PANELS OR WINDOW MULLIONS AND ELSEWHERE NOTED. GASKET TO BE INSTALLED CENTERED ALONG PARTITION CENTERLINE. BUTT ALL JOINTS TIGHTLY. (DELETE WHERE ACOUSTICAL SEALANT IS SHOWN.)

N. GLASS FIBER REINFORCED GYPSUM MANUFACTURED BY CASING DESIGN, INC. ACCESSORY MATERIALS AS RECOMMENDED BY THE MANUFACTURER. PANEL UNITS SHALL BE PREFABRICATED WITH HIGH DENSITY GYPSUM REINFORCED WITH CONTINUOUS FILAMENT RANDOM GLASS FIBER MAT CHOPPED STRAND FIBER REINFORCING NOT PERMITTED. UNITS TO BE REINFORCED WITH STEEL OR WOOD. ALL UNITS WHERE FLOATED JOINTS OCCUR TO BE TAPERED ALONG EDGES. MINIMUM SHELL THICKNESS TO BE 1/4 INCH. PROVIDE FLAT PAINT FINISH OVER ENTIRE PANEL ASSEMBLY. INSTALL GFRG PANELS AFTER ALL SUPPORT FRAMING IS COMPLETED. REMOVE AND REPLACE MATERIAL WHICH IS BROKEN, CHIPPED, STAINED OR OTHERWISE DAMAGED AND WHICH DOES NOT MATCH ADJOINING WORK. LOCATION OF EACH PANEL TO BE DETERMINED BY OWNER AND ARCHITECT AND APPROVED PRIOR TO INSTALLATION.

09300: CERAMIC TILE

A. REFERENCE SPECIFICATIONS AND STANDARDS: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING UNLESS OTHERWISE SPECIFIED IN THIS SECTION IN CASE OF CONFLICT COMPLY WITH THE MOST STRINGENT.

- 1. ANSI A108.1 INSTALLATION OF GLAZED WALL TILE, CERAMIC MOSAIC TILE, QUARRY TILE AND PAVER TILE WITH PORTLAND CEMENT MORTAR.
- 2. ANSI A108.1 INSTALLATION OF CERAMIC TILE WITH DRY-SET PORTLAND CEMENT MORTAR OR LATEX PORTLAND CEMENT MORTAR.
- 3. ANSI A118.4 SPECIFICATIONS FOR LATEX-PORTLAND CEMENT MORTAR. 4. ANSI A137.1 - STANDARD SPECIFICATIONS FOR CERAMIC TILE. 5. TILE COUNCIL OF AMERICA (TCA) - HANDBOOK FOR CERAMIC TILE.

B. INSTALLER'S QUALIFICATIONS: A FIRM WITH NOT LESS THAN FIVE YEARS EXPERIENCE IN THE SPECIFIED WORK.

- C. ALLOWABLE TOLERANCES:
 - 1. MAKE CORNERS OF ALL TILE FLUSH AND LEVEL WITH CORNERS OF
- ADJACENT TILE. 2. WHERE NOTED OR REQUIRED, SLOPE FLOORS TO DRAINS.
- 3. FOR FLAT SURFACES, THE MAXIMUM DEVIATION FROM TRUE PLUMB OR LEVEL PLANE, 1/8" IN 8' AS MEASURED UNDER STRAIGHT EDGE PLACED AT ANY LOCATION ON SURFACE.

D. SAMPLES: 12" SQUARE SAMPLE PANELS OF EACH TYPE OF TILE, STONE THRESHOLD AND GROUT, CLEARLY INDICATED PATTERN, COLORATION AND GROUTED JOINTS.

E. PRODUCT DATE: SUBMIT MANUFACTURER'S LITERATURE FOR MORTAR AND GROUT SYSTEMS.

F. MASTER GRADE CERTIFICATES: SUBMIT FOR EACH LOT OF TILE BEFORE INSTALLING.

G. TILE 1. CERAMIC FLOOR TILE, AND BASE: AS NOTED ON DRAWINGS AND ACCORDING TO ARCHITECT APPROVED SAMPLES. 2. TRIM PIECES: PROVIDE BULLNOSES, TRIM AND OTHER SHAPES REQUIRED FOR COMPLETE AND FINISHED INSTALLATION.

H. SETTING BED FOR ALL CERAMIC TILE WALLS AND FLOORS: THINSET SETTING BED, CONSISTING OF LATEX-PORTLAND CEMENT MORTAR, WITH TROWEL ON WATERPROOF MEMBRANE.

I. GROUT FOR ALL CERAMIC TILE FLOORS: SANDED WATER-RESISTANT LATEX-PORTLAND CEMENT.

- 1. COLOR: AS INDICATED ON DRAWINGS AND IN CONFORMANCE WITH ARCHITECT APPROVED SAMPLES.
- J. SEALANTS: SUBMIT COLOR SAMPLES FOR ARCHITECT'S SELECTION.

K. PRIOR TO INSTALLING TILE, ENSURE WALL SURFACES ARE PLUMB AND FLOOR SURFACES ARE LEVEL OR PROPERLY SLOPED TO DRAIN. L. FOR CERAMIC TILE, CLEAN FLOOR AND FILL LOW SPOTS, CRACKS, JOINTS, HOLES AND OTHER DEFECTS WITH SETTING BED MATERIAL; APPLY, TROWEL AND FLOAT FILLER TO LEAVE SMOOTH, FLAT HARD SURFACE. PROHIBIT TRAFFIC UNTIL FILLER IS CURED.

- M. INSTALLATION OF TILE AND THRESHOLDS:
- 1. SECURE ARCHITECT'S APPROVAL OF PROPOSED LAYOUT, TILE CUTS, MARGINS, ETC., BEFORE PROCEEDING WITH THE WORK. 2. INSTALLATION METHODS: COMPLY WITH TCA INSTALLATION METHODS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED, USING THE
- MATERIALS SPECIFIED. 3. FOR EXPANSION JOINTS COMPLY WITH TCA STANDARDS UNLESS OTHERWISE NOTED OR DETAILED. PROVIDE EXPANSION JOINT AT FLOOR
- PERIMETER UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. 4. FOR SOLID-SURFACING THRESHOLDS, INSTALL BY METHOD SPECIFIED FOR ADJACENT TILE.

5. COMPLETE INSTALLATION SHALL BE FREE OF BROKEN, DAMAGED, OR FAULTY TILE AND HAVE JOINTS THAT ARE WATERTIGHT AND WITHOUT VOIDS, CRACKS, EXCESS MORTAR, SEALANT AND GROUT. 6. SEALANT: SEAL EXPANSION JOINTS AND INTERSECTION OF WALL TILE AND RIGID DISSIMILAR MATERIALS WITH SEALANT. CLEAN JOINTS

FREE OF LOOSE MORTAR, DIRT, AND DEBRIS BEFORE APPLYING SEALANT. NEATLY TOOL SEALANTS TO SLIGHT CONCAVE SURFACE. COMPLY WITH

AND FINISH.

09510: ACOUSTICAL CEILINGS

A. REFERENCE SPECIFICATIONS AND STANDARDS: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING UNLESS OTHERWISE SPECIFIED IN THIS SECTION, IN CASE OF CONFLICT COMPLY WITH THE MOST STRINGENT.

- (GALVANIZED) CARBON STEEL WIRE.
- 4. LOCAL CODE REQUIREMENT. ASSOCIATION STANDARDS.

UNIT RESPONSIBILITY FOR FIELD MEASUREMENT, ENGINEERING, SUBMITTALS, FIELD INSTALLATION AND WARRANTY.

C. ALLOWABLE TOLERANCES:

D. SHOP DRAWINGS: CLEARLY INDICATE GRID LAYOUT AND ALL RELATED DIMENSIONING, JUNCTIONS WITH OTHER WORK OR CEILING FINISHES AND MECHANICAL AND ELECTRICAL ITEMS RELATED TO SYSTEM.

E. SAMPLES: EACH TYPE OF CEILING SUSPENSION AND ACOUSTICAL UNIT. F. SUBMIT STRUCTURAL CALCULATIONS AND DETAILS AND TEST CERTIFICATIONS AS REQUIRED TO MEET PERFORMANCE STANDARDS STIPULATED BY

AUTHORITIES HAVING JURISDICTION OR UPON ARCHITECT'S REQUEST. G. DO NOT INSTALL ACOUSTICAL CEILINGS UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATING ACTIVITIES HAVE TERMINATED AND OVERHEAD MECHANICAL AND ELECTRICAL WORK IS COMPLETED, TESTED AND APPROVED.

H. SUSPENSION SYSTEM:

IN "ACOUSTICAL UNITS" BELOW. 3. COMPRESSION STRUTS: GALVANIZED STEEI 4. PROTECTIVE COATINGS AND FINISHES: PROVIDE ELECTROGALVANIZED

I. ACOUSTICAL UNITS:

J. INSTALL ACOUSTICAL CEILING SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUSPENSION SYSTEM DESIGN AND WITH THE REFERENCED STANDARDS.

- REFERENCED STANDARDS. 2. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE. INSTALLATION OF CEILING GRID. 3. INTERFERENCE: WHERE WIDE AIR CONDITIONING DUCTS OR SIMILAR TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY. IN SUCH BE SUPPORTED INDEPENDENTLY. VERTICAL SURFACES, USING MAXIMUM LENGTHS, STRAIGHT, TRUE TO LINE AND LEVEL. MITER CORNERS.
- FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES.

WARP AND DENTS.

K. APPLY COMPRESSIBLE JOINT FILLER TO SEAL REVEAL IN SUSPENSION SYSTEM OVER TOP OF PARTITIONS THAT TERMINATE AGAINST ACOUSTICAL CEILING.

L. THE FINISHED SURFACES SHALL BE FREE FROM DAMAGE, FLAWS, BLEMISHES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE; HAVE JOINTS AND EXPOSED GRID IN REQUIRED PATTERN, POSITION AND ALIGNMENT AND BE UNIFORM IN PLANE, COLOR, TEXTURE AND FINISH. 09650: RESILIENT FLOORING

A. REFERENCE SPECIFICATIONS AND STANDARDS: COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING UNLESS OTHERWISE SPECIFIED IN THIS SECTION. IN CASE OF CONFLICT, COMPLY WITH THE MOST STRINGENT.

AFS SS-6-3128 TYPE III - FEDERAL SPECIFICATION FOR SOLID VINYL TILE.

B. SAMPLES: PROVIDE 12" X 12" SIZED SAMPLES OF EACH FLOORING MATERIAL, COLOR AND PATTERN SELECTED; AND 12" LONG SAMPLES OF EACH TYPE AND COLOR OF BASE AND EDGE TRANSITION STRIPS.

C. ENSURE FLOOR SURFACES ARE SMOOTH AND FLAT WITH MAXIMUM VARIATION OF 1/8" IN 10'. PREPARE FLOOR AS NECESSARY TO MEET THESE REQUIREMENTS.

AND EXHIBIT NEGATIVE ALKALINITY, CARBONIZATION OR DUSTING.

E. MAINTAIN MINIMUM 70 DEGREES F AIR TEMPERATURE AT FLOORING INSTALLATION AREA FOR 48 HOUR PERIOD PRIOR TO, DURING, AND FOR 48 HOURS AFTER INSTALLATION MAINTAIN A MINIMUM OF 55 DEGREES F THEREAFTER.

O. THE FINISHED SURFACES SHALL BE FREE FROM DAMAGE, FLAWS, BLEMISHES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE, HAVE JOINTS IN PROPER POSITION AND ALIGNMENT AND BE UNIFORM IN PLANE, COLOR

1. ASTM C635 - STANDARD SPECIFICATION FOR METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN-PANEL CEILINGS. 2. ASTM C636 - RECOMMENDED PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS. 3. ASTM A641 - STANDARD SPECIFICATION FOR ZINC-COATED

5. CISCA - CEILING AND INTERIOR SYSTEMS CONTRACTORS

B. THE WORK HERE UNDER SHALL BE PERFORMED BY A SINGLE ENTITY WITH

1. INSTALL CEILING SYSTEMS IN A MANNER CAPABLE OF SUPPORTING ALL SUPERIMPOSED LOADS WITH MAXIMUM PERMISSIBLE DEFLECTION OF 1/360 OF SPAN AND MAXIMUM SURFACE DEVIATION OF 1/8" IN 12'.

1. INSTALL EACH DIFFERENT TYPE OF SUSPENSION SYSTEM SPECIFIED

2. HANGER WIRE: PROVIDE NOT LESS THAN 10 GAUGE GALVANIZED, SOFT-ANNEALED STEEL WIRE FOR CEILING SYSTEMS PROVIDING LATERAL SUPPORT FOR PARTITIONS AND NOT LESS THAN 12 GAUGE FOR CEILING SYSTEMS NOT INTENDED TO LATERALLY SUPPORT PARTITIONS.

STEEL COMPONENTS WITH LOW-GLOSS COATINGS AND FINISHES TO MATCH ACOUSTICAL PANELS AND IN CONFORMANCE WITH ARCHITECT APPROVED SAMPLE. THE FINISH SHALL BE ON ALL EXPOSED PORTIONS OF GRID. 5. MISCELLANEOUS ACCESSORIES: SPLINES, SADDLES, CLIPS, FASTENERS, AND OTHER ACCESSORIES; GALVANIZED SHEET STEEL PROVIDE AS REQUIRED TO COMPLETE THE SUSPENSION SYSTEMS AND INSTALLATION OF LIGHTING AND HVAC ELEMENTS.

SEE DECOR DRAWINGS BY OTHERS FOR CEILING PANEL TYPES.

PROVIDE SUPPLEMENTAL HANGERS, SUPPORTS AND FASTENERS FO LATERAL BRACING OF THE SUSPENSION SYSTEM IN ACCORDANCE WITH THE

COORDINATE THE LOCATION OF HANGERS WITH OTHER WORK. ENSURE HANGERS AND CARRYING CHANNELS ARE LOCATED TO ACCOMMODATE FITTINGS AND UNITS OF EQUIPMENT WHICH ARE TO BE PLACED AFTER THE

OBSTRUCTIONS ABOVE ACOUSTICAL CEILINGS INTERFERE WITH SUSPENSION HANGERS. PROVIDE INDEPENDENT FRAMING BELOW OBSTRUCTION TO SUPPORT THE CEILING AS AN OBLIGATION UNDER THIS SECTION. 4. LIGHTING FIXTURES SHALL NOT BE SUPPORTED FROM OR ON MAIN RUNNERS OR CROSS RUNNERS IF WEIGHT OF THE FIXTURE CAUSES THE

CASES, FIXTURE LOADS SHALL BE SUPPORTED BY SUPPLEMENTARY HANGES LOCATED WITHIN 6" OF EACH CORNER, OR THE FIXTURES SHALL 5. INSTALL EDGE MOLDINGS AT INTERSECTION OF CEILING AND

6. FIT ACOUSTIC UNITS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION. LAY DIRECTIONALLY PATTERNED UNITS ONE WAY WITH PATTERN AS DIRECTED.

7. INSTALL UNITS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST,

D. ENSURE CONCRETE FLOORS ARE DRY (MAXIMUM 7% MOISTURE CONTENT)

F. MATERIALS:

1. SOLID VINYL TILE: 12" X 12" X 0.10" THICK. MANUFACTURER/ PATTERN/ COLOR: OR AS SCHEDULED AND IN CONFORMANCE WITH ARCHITECT APPROVED SAMPLES. 2. EDGE TRANSITION STRIPS: RESILIENT MOLDINGS FOR TRANSITION

BETWEEN RESILIENT FLOORING AND CONCRETE, CERAMIC TILE, ETC. (REDUCER TYPE), MANUFACTURED BY JOHNSONITE, COLORS AS SELECTED BY ARCHITECT

3. SUB-FLOOR FILLER: PREMIXED LATEX, ARMSTRONG S-180 LATEX UNDERLAYMENT, MIXED WITH WATER TO PRODUCE CEMENTITIOUS PASTE. 4. PRIMERS AND ADHESIVE: WATERPROOF; OF TYPES RECOMMENDED BY RESILIENT FLOORING MANUFACTURER FOR SPECIFIC MATERIAL.

G. REMOVE SUB-FLOOR DIRT, GREASE, RIDGES AND BUMPS.

H. CLEAN FLOOR AND FILL LOW SPOTS, CRACKS, JOINTS, HOLES AND OTHER DEFECTS WITH SUB-FLOOR FILLER; APPLY, TROWEL AND FLOAT FILLER TO LEAVE SMOOTH, FLAT HARD SURFACE. APPLY FILLER TO 1/8" MAXIMUM THICKNESS AND ALLOW TO CURE PRIOR TO APPLICATION OF SUCCEEDING LAYERS. DO NOT INSTALL LATEX TYPE FILLER IN EXCESS OF 3/8" TOTAL THICKNESS. PROHIBIT TRAFFIC UNTIL FILLER IS CURED.

I. LAY FLOORING WITH JOINTS AND SEAMS PARALLEL TO BUILDING LINES TO PRODUCE MINIMUM NUMBER OF SEAMS IN SHEET MATERIAL AND SYMMETRICAL PATTERN IN TILES. INSTALL WITH PATTERN IN DIRECTION AS DESIGNATED BY ARCHITECT.

J. INSTALL WITH MINIMUM OF 1/2 FULL SIZE TILE WIDTH AT ROOM OR AREA PERIMETER TO PATTERN REQUIRED.

K. TERMINATE RESILIENT FLOORING AT CENTERLINE OF DOOR WHERE ADJACENT FLOOR FINISH IS DISSIMILAR. LAY FLOORING CONTINUOUS THROUGH DOORS AND OPENINGS WHERE ADJACENT AREAS OR ROOMS HAVE SAME FINISH.

L. INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES WHERE FLOORING TERMINATES.

M. THE FINISHED SURFACES SHALL BE FULLY BONDED TO THE SUBSTRATE; FREE FROM DAMAGE, FLAWS OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE; HAVE TIGHTLY FITTED JOINTS AND SEAMS BE UNIFORM IN PATTERN, SPACING, MARGIN AND FINISH.

N. DELIVER TWO PERCENT ADDITIONAL AMOUNT OF EACH TYPE AND COLOR OF FLOORING AND BASE, FOR MAINTENANCE USE.

09900: PAINTING

A. PAINT ALL SURFACES EXCEPT THOSE SHOP FINISHED, FACTORY FINISHED, OR NOTED NOT TO BE PAINTED.

B. COATS: THE NUMBER OF COATS SPECIFIED IS THE MINIMUM NUMBER ACCEPTABLE. IF FULL COVERAGE IS NOT OBTAINED WITH THE SPECIFIED NUMBER OF COATS, APPLY SUCH ADDITIONAL COATS AS ARE NECESSARY TO PRODUCE THE REQUIRED FINISH, AT NO EXTRA COST TO THE OWNER.

C. EMPLOY COATS AND UNDERCOATS FOR ALL TYPES OF FINISHES IN STRICT ACCORD WITH THE RECOMMENDATIONS OF THE PAINT MANUFACTURER USED UNLESS OTHERWISE SPECIFIED IN THIS SECTION. IN CASE OF CONFLICT, COMPLY WITH THE MOST STRINGENT.

D. SUBMIT COPIES OF A COMPLETE LIST OF ALL MATERIALS IDENTIFIED BY MANUFACTURER'S NAME AND PRODUCT LABEL OR STOCK NUMBER AND MANUFACTURER'S TECHNICAL INFORMATION.

. COLOR SAMPLES: 1. SUBMIT, USING MATERIALS ACCEPTED FOR THE PROJECT, SAMPLES OF EACH COLOR AND PAINT FINISH. 2. SIZE: 8-1/2" X 11".

3. FOR TRANSPARENT AND STAINED FINISHES, PREPARE SAMPLES ON SAME SPECIES AND QUALITY OF WOOD SCHEDULED.

F. STORE MATERIALS IN A DRY. CLEAN, WELL VENTILATED AREA. STORE CONTAINERS CLOSED. COMPLY WITH LEGAL REQUIREMENTS. G. ENVIRONMENTAL REQUIREMENTS:

- 1. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR
- ENVIRONMENTAL CONDITIONS UNDER WHICH COATINGS AND COATING SYSTEMS CAN BE APPLIED.
- 2. DO NO APPLY FINISH IN AREAS WHERE DUST IS BEING GENERATED. 3. INSURE ADEQUATE VENTILATION DURING ALL INTERIOR PAINTING. 4. APPLY NO PAINT IN RAIN, FOG OR MIST, OR WHEN AMBIENT OR SURFACE TEMPERATURE IS BELOW 60 DEGREES.

H. PROTECTION: PROTECT FLOORS AND ALL ADJACENT SURFACES FROM PAINT SMEARS, SPATTERS, OVER SPRAY AND DROPPINGS. USE DROP-CLOTHS TO PROTECT FLOORS. COVER FIXTURES AND NON-REMOVABLE HARDWARE NOT TO BE PAINTED. MASK OFF AREAS WHERE NECESSARY.

I. HARDWARE: INSURE THAT HARDWARE IS REMOVED BEFORE PAINTING IS STARTED AND REPLACED ONLY WHEN PAINT FINISHES ARE THOROUGHLY DRY.

J. MATERIALS:

1. MATERIALS NECESSARY TO COMPLETE THE PAINTING AS HEREIN SPECIFIED AND LISTED BY MATERIAL NUMBERS AND NAMES ARE STANDARDS FOR KIND, QUALITY AND FUNCTION.

2. ENSURE THAT CUSTOM COLORS, MATERIALS, THE APPROVAL PROCESS AND OTHER LONG LEAD ITEMS ARE MADE AVAILABLE AT A TIME AND IN A MANNER THAT WILL NOT DELAY THE CONSTRUCTION SCHEDULE.

K. CONDITION AND PREPARE SURFACES AND APPLY MATERIALS IN ACCORDANCE WITH PAINT MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SPECIFIED IN THIS SECTION. IN CASE OF CONFLICT, COMPLY WITH THE MOST STRINGENT.

L. APPLICATION: 1. APPLY MATERIAL EVENLY, FREE FROM SAGS, RUNS, CRAWLS, HOLIDAYS OR DEFECTS. BRUSH OUT SMOOTH, LEAVING MINIMUM OF BRUSH MARKS. ENAMEL SHALL BE UNIFORMLY APPLIED WITHOUT BRUSH MARKS. 2. TINT ALL PIGMENTED UNDERCOATS TO APPROXIMATELY SAME SHADE AS FINAL COAT. PERCEPTIBLY INCREASE THE DEPTH OF SHADE IN SUCCESSIVE COATS. 3. APPLY ADDITIONAL COATS WHEN UNDERCOATS, STAINS OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT, UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE. GIVE SPECIAL ATTENTION TO ENSURE THAT SURFACES, INCLUDING EDGES, CORNERS, CREVICES, WELDS, AND EXPOSED FASTENERS, RECEIVE A DRY FILM THICKNESS EQUIVALENT TO THAT OF FLAT SURFACES. 4. PVA SEALER/PRIMER SHALL BE ROLLER APPLIED TO GYPSUM WALLBOARD. SPRAY APPLICATION IS NOT ACCEPTABLE.

M. FINISH COATS: FINISH AS SCHEDULED ON DRAWINGS. 1. STIPPLE ENAMEL FINISH: ROLL AND REDISTRIBUTE PAINT TO AN EVEN AND FINE TEXTURE. LEAVE NO EVIDENCE OF ROLLING SUCH AS LAPS, IRREGULARITY IN TEXTURE, SKID MARKS, OR OTHER SURFACE IMPERFECTIONS. 2. PIGMENTED (OPAQUE) FINISHES: COMPLETELY COVER TO PROVIDE AN OPAQUE, SMOOTH SURFACE OF UNIFORM FINISH, COLOR AND COVERAGE. CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS OR OTHER SURFACE IMPERFECTIONS WILL NOT BE ACCEPTABLE. 3. TRANSPARENT (CLEAR) FINISHES: USE MULTIPLE COATS TO PRODUCE GLASS-SMOOTH SURFACE FILM OF EVEN LUSTER. PROVIDE A FINISH FREE OF LAPS, CLOUDINESS, COLOR IRREGULARITY, RUNS, BRUSH MARKS, ORANGE PEEL, NAIL HOLES, OR OTHER SURFACE IMPERFECTIONS.

N. FINISH ALL FOUR EDGES OF DOORS WITH THE SAME NUMBER AND KIND OF COATINGS AS SPECIFIED FOR THEIR MAIN SURFACES. WHERE OPENING INTO ROOMS HAVING DIFFERENT FINISHES, FINISH DOOR EDGES AS DIRECTED. E. REFER TO DETAILS FOR FABRICATION REQUIREMENTS AND SIZES OF MIRRORS.

F. CHECK OPENINGS SCHEDULED TO RECEIVE UNITS FOR CORRECT DIMENSIONS, PLUMBNESS OF BLOCKING, BACKING PLATES OR FRAMES AND PREPARATION THAT WOULD AFFECT INSTALLATION OF ACCESSORIES.

O. MECHANICAL AND ELECTRICAL WORK EXPOSED IN FINISHED AREAS: 1. INCLUDE THAT PORTION OF DUCT WORK OR PLENUM SPACES, THE INTERIOR OF WHICH IS VISIBLE THROUGH THE GRILLES 2. ALL OTHER MECHANICAL AND ELECTRICAL EQUIPMENT EXPOSED TO VIEW, SUCH AS COVERED AND UNCOVERED PIPING AND DUCT WORK, PUMPS, COMPRESSORS, AIR CONDITIONING EQUIPMENT, TANKS, ETC., SHALL BE PAINTED AS SPECIFIED HEREIN, WHERE NOT SUPPLIED FINISHED UNDER OTHER SECTIONS.

P. MISCELLANEOUS PAINTING: SURFACES TO BE PAINTED AND NOT SPECIFICALLY DESCRIBED HEREIN SHALL BE PAINTED WITH A PRODUCT SPECIFICALLY MANUFACTURED OR PREPARED FOR THE MATERIAL AND SURFACE; PRIME COAT AND TWO FINISH COATS.

Q. PAINT FINISH SCHEDULE 1. REFER TO DRAWINGS FOR REQUIRED SHEEN AND COLOR. REFERENCE, THEREIN TO A SPECIFIC MANUFACTURER'S PRODUCT, UNLESS OTHERWISE NOTED, IS FOR THE PURPOSE OF COLOR SELECTION ONLY. 2. NUMBERS USED TO IDENTIFY PAINT INDICATES THE PAINT IN WHITE. MATERIAL SHALL BE COLOR SELECTED.

INTERIOR

GYPSUM BOARD: (FW-FLAT) 1ST COAT: PIGMENTED PVA SEALER 2ND COAT: FLAT WALL PAINT

GYPSUM BOARD: (SGE-SEMI-GLOSS OR E.E.-EGGSHELL) 1ST COAT: PIGMENTED PVA SEALER 2ND COAT: PRIME UNDERCOATER

3RD COAT: ENAMEL-SHEEN AS NOTED ON DRAWINGS WOOD: (SGE-SEMI-GLOSS AND E.E.-EGGSHELL) 1ST COAT: UNDERCOATER

2ND AND 3RD COATS: ENAMEL-SHEEN AS NOTED ON DRAWINGS WOOD (T) (TRANSPARENT FINISH)

1 COAT: WOOD STAIN, IF REQUESTED 1 COAT: PASTE WOOD FILLER (AT OPEN GRAINS) IF REQUESTED 1 COAT: SANDING SEALER TWO FINISH COATS: LACQUER

OTHER METAL: (GE-GLOSS)

1ST COAT: FERROUS 15 RED OXIDE PRIMER GALVANIZED 28 WHITE PRIME ALUMINUM 14 CORRO PRIME 2ND AND 3RD COATS: ENAMEL-SHEEN AS NOTED ON DRAWINGS

OTHER METAL - FERROUS: (SGE-SEMI-GLOSS AND E.E.-EGGSHELL) 1ST COAT: 15 RED OXIDE PRIMER

2ND COAT: 75 SINCO PRIME UNDERCOATER 3RD COAT: ENAMEL-SHEEN AS NOTED ON DRAWINGS

OTHER METAL GALVANIZED: (SGE-SEMI-GLOSS AND E.E.-EGGSHELL) 1ST COAT: WHITE PRIME 2ND COAT: ENAMEL-SHEEN AS NOTED ON DRAWINGS

R. CLEAN-UP: DURING PROGRESS OF WORK, REMOVE FROM SITE DISCARDED PAINT MATERIALS, RUBBISH CANS AND RAGS AT END OF EACH WORK DAY. 1. UPON COMPLETION OF PAINTING WORK, CLEAN PAINT-SPATTERED SURFACES. REMOVE SPATTERED PAINT BY PROPER METHODS OF WASHING AND SCRAPING, USING CARE NOT TO SCRATCH OR OTHERWISE DAMAGE FINISHED SURFACES. 2. PROVIDE "WET PAINT" SIGNS AS REQUIRED TO PROTECT NEWLY

PAINTED FINISHES. 3. REMOVE TEMPORARY PROTECTIVE WRAPPINGS PROVIDED BY OTHERS FOR PROTECTION OF THEIR WORK, AFTER COMPLETION OF PAINTING OPERATIONS.

S. REPAIR: AT THE COMPLETION OF WORK OF OTHER TRADES, TOUCH UP AND RESTORE ALL DAMAGED OR DEFACED PAINTED SURFACES.

T. LEAVE ON PREMISES, WHERE DIRECTED BY ARCHITECT, NOT LESS THAN ONE GALLON OF EACH COLOR OF EACH FINISH USED. 09950: WALL COVERINGS

A. ADHESIVE APPLIED FRP PANEL WALL COVERING AND INSTALLATION ACCESSORIES.

B. REFERENCE STANDARDS AND SPECIFICATIONS. COMPLY WITH MANUFACTURERS' RECOMMENDATIONS UNLESS OTHERWISE NOTED IN THIS SECTION. IN CASE OF CONFLICTS, COMPLY WITH THE MOST STRINGENT.

C. AS MANUFACTURED BY KEMLITE, OR APPROVED EQUAL, GLASBORD-PS PANELS OR WHEN REQUIRED BY LOCAL BUILDING CODES, PANELS TO BE GLASBORD FIRE-X. ADHESIVE TYPE AS RECOMMENDED BY WALL COVERING MANUFACTURER TO SUIT APPLICATION. ADHESIVE SHALL CONTAIN A MILDEW INHIBITOR. PROVIDE REQUIRED ACCESSORY TRIMS AND EDGE MOLDINGS NECESSARY TO CLOSE PANELS.

DIVISION TEN - SPECIALTIES

10810: TOILET ACCESSORIES

A. SUBMIT MANUFACTURER'S CATALOG CUTS AND DATA SHEETS, COMPLETE PARTS LIST, AND INSTALLATION REQUIREMENTS FOR EACH ACCESSORY ITEM SPECIFIED.

B. ACCESSORIES SCHEDULED ON DRAWINGS ARE PRODUCTS OF BOBRICK WASHROOM EQUIPMENT, INC. OR EQUAL.

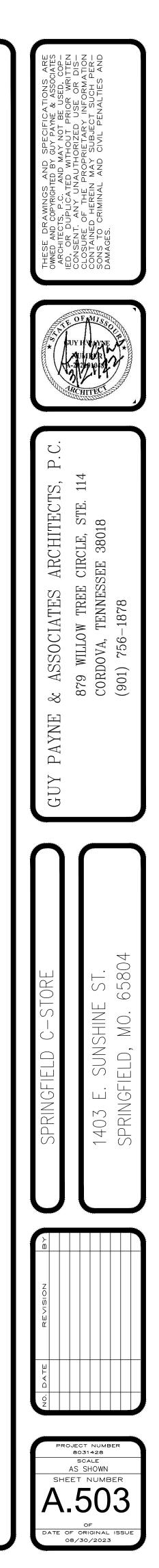
C. MATERIALS 1. STAINLESS STEEL: ASTM A167, TYPE 302/304, NO. 4 SATIN FINISH. . MOUNTING DEVICES: ASTM A386, GALVANIZED STEEL. . MIRRORS: FF DD-G-451C, POLISHED PLATE OR FLOAT GLASS RECOMMENDED FOR HIGH HUMIDITY USE; WITH SILVERED, METAL COVERED BACKS, STAINLESS STEEL FRAMES, MINIMUM 1/4" THICK. PROVIDE FIVE YEAR GUARANTEED.

D. FABRICATE UNITS WITH SEAMLESS ONE-PIECE FLANGE ON EXPOSED FACE. WELD CORNERS, LEAVING NO OPEN MITERS.

G. MOUNT SURFACE MOUNTED ACCESSORIES TO BACKING PLATES WITH MACHINE SCREWS. PLUMB AND ALIGN.

H. ADJUST ACCESSORIES FOR PROPER OPERATION. AFTER COMPLETION OF INSTALLATION CLEAN AND POLISH ALL EXPOSED SURFACES. DELIVER KEYS AND INSTRUCTION SHEETS TO OWNER.

END OF SPECIFICATIONS

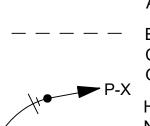


LUMINA	AIRE SCHI	EDULE							
CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	MODEL 1	MODEL 2	INPUT WATTS	VOLTS	NOTE 1
A		34W LED	2X4 LED TROFFER WITH LENS	LITHONIA 2GTL 4 48L EZ1 LPL840	LITHONIA 2GTL 4 48L EZ1 LPL840		34	120V 1P 2W	
AE		34W LED	2X4 LED TROFFER WITH LENS	LITHONIA 2GTL 4 48L EZ1 LPL840 BATTERY BACKUP	LITHONIA 2GTL 4 48L EZ1 LPL840	BATTERY BACKUP	34	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT
E	$\vdash \bigotimes$	5W LED	EXIT SIGN COMBO	DUAL LITE #EVC-U-R-W	DUAL LITE #EVC-U-R-W		5	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT
EG	à	5W LED	LED EMERGENCY REMOTE HEAD WET LOCATION	DUAL LITE #PGZ	DUAL LITE #PGZ		5	120V 1P 2W	CONNECT UNSWITCHED HOT FROM CIRCUIT DIRECTLY INDOOR FROM FIXTURE PROVIDE "SWITCHED" HOT FROM PHOTOCELL CIRCUIT AS INDICATED
W-2		(216) 87W ,	Contractor Select CNY LED Canopy P3=11,000lm	Lithonia Lighting, CNY LED P3 40K MVOLT GLASS BLOCK	Lithonia Lighting, CNY LED P3 40K MVOLT	GLASS BLOCK	86.58	120V 1P 2W	3

RECEF	PTACLE S	CHEDULE			SWITC	CH SCH	EDULE		
CALLOUT	SYMBOL	VOLTS	NOTE 1	NOTE 2	CALLOUT	SYMBOL	NOTE 1	NOTE 2	NOTE 3
Duplex Outlet	¢	120V 1P 2W	DUPLEX RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI		Generic Switch	\$			
Duplex Outlet-Above Counter	e 🕁	120V 1P 2W	DUPLEX RECEPTACLE, MTD AT 4" ABOVE BACKSPLASH TO BOTTOM, UOI	COORDINATE WITH CASEWORK CONTRACTOR	SWITCH WITH OCC	\$	WALL MOUNTED DUAL TECHNOLOGY,	ACUITY CONTROLS #WSX-PDT-WH	MTD 48" AFF. UOI
Duplex Outlet-GFCI Above Counter		120V 1P 2W	GFCI PROTECTED DUPLEX RECEPTACLE, MTD AT 4" ABOVE BACKSPLASH TO BOTTOM, UOI	COORDINATE WITH CASEWORK CONTRACTOR	SENSOR	oc	OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWICTH.		
Floor Box Duplex	Þ	120V 1P 2W	SINGLE GANG FLOOR BOX WITH 2 SIMPLEX RECEPTACLE	STEEL CITY #600 SERIES, ROUND,CAST IRONBOX WITH METALLIC COVER #P60 SERIES, OR EQUAL					
J-Box (120V)	J	120V 1P 2W	JUNCTION BOX, USE AS INDICATED]				

ELECTRICAL SYMBOLS

- NONFUSED DISCONNECT SWITCH SIZE AS INDICATED
- INDICATED
 INDICATED
 FUSED DISCONNECT SWITCH SIZE AS
- COMBINATION STARTER/DISCONNECT SIZE AS гХ INDICATED
- \$ TOGGLE SWITCH



FEEDER/BRANCH RUN OVERHEAD - CONCEALED IN OR ABOVE CEILING, IN WALL, OR EXPOSED ON STRUCTURE EMERGENCY, NIGHT LIGHT, OR FEEDER/BRANCH CONCEALED BELOW FLOOR, IN WALL, OR BELOW GRADE

HOME RUN TO CIRCUIT PANEL, NEUTRAL/HOT/GROUND. #12 COPPER, UOI

ABBREVIATIONS

AC AFF AFG BFG EC EP EX FAA FACP GC GFCI MC MTD OFCI INSTALLED SPD STB	SURGE PROTECTIVE DEVICE SHUNT TRIP BREAKER
UOI	UNLESS OTHERWISE INDICATED
WP	WEATHERPROOF

24a	\$	120V 1P 2W
CP-1	©_ \$	120V 1P 2W
CU-1	ļ O	208V 2P 2W
CU-2		208V 2P 2W
CU-3	ð Ö	208V 2P 2W
CU-4	ð Ö	208V 2P 2W
EF-1	\$	120V 1P 2W
EF-2	\$	120V 1P 2W
EF-3	\$	120V 1P 2W
EVAP 1	<u>م</u> لي	208/120V 2P 3W
EVAP 2	Ø Ū	208/120V 2P 3W
EVAP 3	Ø Ū	208/120V 2P 3W
EVAP 4	Ø Ū	208/120V 2P 3W
FUEL SYSTEM	ð Ū	208V 3P 3W
GRILLE	¢ Ū	208V 2P 2W
HEATED DISPLAY	Ø Ū	208V 3P 3W
HOOD	\$	120V 1P 2W
ICE	ð Ö	208/120V 2P 3W

 $\bigcirc \frown \Box$

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208/120V 2P

208/120V 2P

208V 3P 3W

208V 3P 3W

208/120V 2P

208/120V 2P

208V 3P 4W

3W

3W

3W

3W

KEF-1

KSF-1

RTU-1

RTU-2

SELF

SELF

WH-1

SERVICE

SERVICE

GENERAL SCHEDULE

VOLTS

CALLOUT SYMBOL

PANEL

ERRUPTER

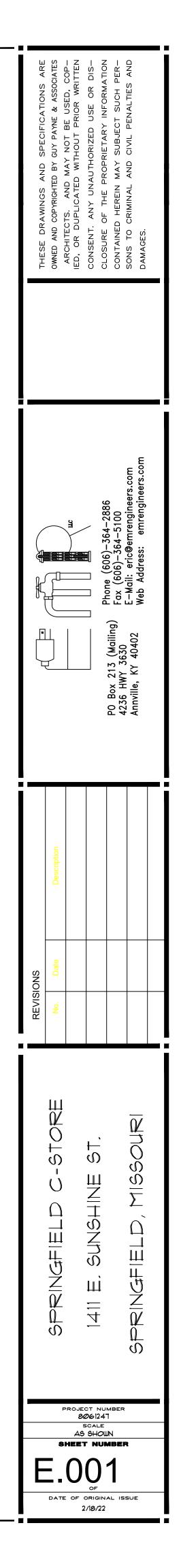
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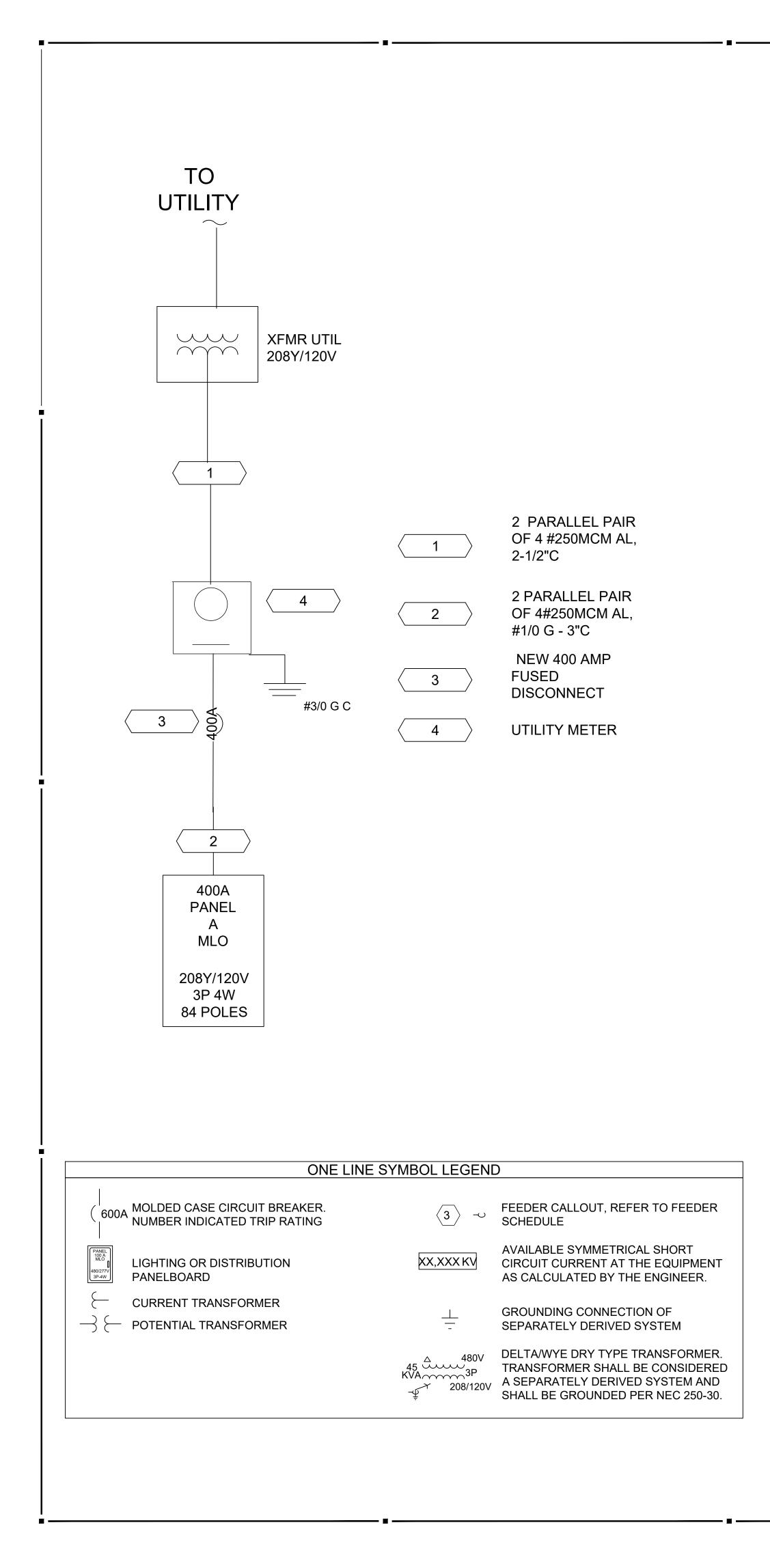
Telephone and Data Schedule					
CALLOUT	SYMBOL	NOTE 1			

◀

Telephone Outlet

	AMPS	HP	CIRCUIT	WIRE CALLOUT
,	15			
,	3.5	1/10 HP	P-1-15	1/2"C,1#12,#12N,#12G
1	12.02		P-1-12,14	1/2"C,2#10,#10G
1	12.02		P-1-16,18	1/2"C,2#10,#10G
1	12.02		P-1-24,26	1/2"C,2#12,#12G
1	12.02		P-1-32,34	1/2"C,2#12,#12G
,	3.5	1/10 HP	P-1-37	1/2"C,1#12,#12N,#12G
,	3.5	1/10 HP	P-1-37	1/2"C,1#12,#12N,#12G
,	3.5	1/10 HP	P-1-37	1/2"C,1#12,#12N,#12G
0	3.85		P-1-8,10	1/2"C,2#10,#10N,#10G
0	3.85		P-1-20,22	1/2"C,2#12,#12N,#12G
0	3.85		P-1-28,30	1/2"C,2#12,#12N,#12G
5	3.85		P-1-36,38	1/2"C,2#12,#12N,#12G
'	60		P-1-65,67,6	91-1/4"C,3#1,#8G
/	10		P-1-56,58	1/2"C,2#12,#12G
'	20		P-1-39,41,4	.31/2"C,3#10,#10G
,	5		P-1-47	1/2"C,1#12,#12N,#12G
0	34.64		P-1-49,51	3/4"C,2#6,#6N,#10G
D	7.96	3/4 HP	P-1-57,59	1/2"C,2#12,#12N,#12G
0	9.23	1 HP	P-1-61,63	1/2"C,2#12,#12N,#12G
/	30		P-1-60,62,6	43/4"C,3#8,#10G
1	30		P-1-66,68,7	03/4"C,3#8,#10G
	34.64		P-1-21,23	3/4"C,2#6,#6N,#10G
0	34.64		P-1-81,83	3/4"C,2#6,#6N,#10G
1	16.5		P-1-9,11,13	1/2"C,3#10,#10N,#10G





I ING FLUSH OM UTILITY	VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%	AIC 22,000 MAIN BKR MLO LUGS STANDARD	S AND SPECIFICATIONS TED BY GUY PAYNE & ASSOC ITED BY GUY PAYNE & ASSOC MAY NOT BE USED, O UD MAY NOT BE USED, O TED WITHOUT PRIOR WRI NAUTHORIZED USE OR I PROPRIETARY INFORMA
CKT BKR CIRCUIT DESCRIPTION	LOAD KVA CKT		AAWINGS COPYRIGH ANY U ANY U O HEREIL
20/1 EMERGENCY	0 2	20/1 SPACE 0	ESE DR ED AND CCHITEC CCHITEC COND SURE INTAINEE
20/1LIGHTING20/1RECEPTACLE20/1SPACE	0.346 4 0.9 6 0 8	20/1 SPACE 0 20/1 SPACE 0 20/2 EVAP 1 0.4	
30/3 WH-1	1.98 10 1.98 12	0.4	
20/1 CP-1	1.98 14 0.42 16	1.25 20/2 CU-2 1.25	
20/1RECEPTACLE20/1GFCI RECEPTACLE	0.36 0.54 18	I 1.25 20/2 EVAP 2 0.4	
50/2 SELF SERVICE 20/1 RECEPTACLE	3.6 22 3.6 3.6 0.18 26	0.4 20/2 CU-3 1.25	
20/1 LIGHTING 20/1 SPACE	0.18 26 0.987 28 0 30	I 1.25 20/2 EVAP 3 I 0.4	
20/1 SPACE 20/1 SPACE	0 32 34	20/2 CU-4 1.25 1.25	
20/1 RECEPTACLE 20/1 EF-1, EF-2, EF-3	0.18 36 1.26 38	20/2 EVAP 4 0.4 I 0.4	
30/3 HEATED DISPLAY	2.4 40 2.4 2.4	20/1 RECEPTACLE 0.18 20/1 RECEPTACLE 0.18	22886 00 00 11 12 12 12 12 12 12 12 12 12 12 12 12
20/1 MICROWAVE	2.4 44 0.8 46 0.6 48	20/1RECEPTACLE0.1820/1RECEPTACLE0.1820/1RECEPTACLE0.18	
20/1 HOOD 50/2 ICE	3.6 0.6 48 3.6 50 3.6 52	20/1 RECEPTACLE 0.18 20/1 RECEPTACLE 0.18 20/1 RECEPTACLE 0.72	
20/2 SPACE	0 56	20/1 SPACE 0 20/2 GRILLE 1.04	
20/2 KEF-1	0.828 58 0.828 60	1.04 40/3 RTU-1 3.6	
20/2 KSF-1 100/3 FUEL SYSTEM	0.96 62 0.96 64 7.21 66	I 3.6 I 3.6 40/3 RTU-2 3.6 3.6	3 (Mailing) 3630
	7.21 66 7.21 68 7.21 70	40/3 RTU-2 3.6 3.6 3.6	
20/1 SPACE 20/1 SPACE		20/3 SPACE 0	PO Box 21 4236 HWY
20/1 SPACE 20/1 SPACE	0 76 0 78	0 20/1 SPACE 0	
20/1SPACE50/2SELF SERVICE	0 80 3.6 82	20/1 SPACE 0 0 20/1 SPACE 0 0	
	3.6 84	20/1 SPACE 0 TOTAL CONNECTED KVA BY PHASE 32.6 39.7 34.5	
ITING 2.51 3.13 GEST MOTOR 21.6 5.4	(25%) RE TO	KVA KVA 99.1 99.1 (100%) CEPTACLES 5.12 5.12 (50%>10) TAL LOAD 113 113 113 LANCED 3-PHASE LOAD 313 A 313 A 113	REVISIONS No. Date
NOTES CCORDANCE WITH NEC ARTICLE LY TO REQUIRE EXAMINATION W KED TO WARN PERSONNEL OF P S SHALL BE FURNISHED FROM TH CCORDANCE WITH NEC ARTICLE IPMENT SHALL BE FIELD MARKED LT CURRENT ALONG WITH THE D FORMED. WORKING SPACE REQUIREMENT IPMENT IN ACCORDANCE WITH N ERED TO BY ALL TRADES. TRACTOR SHALL BE RESPONSIB VIDED IN THE SHORT CIRCUIT AN IFY THAT SETTINGS ON ADJUSTA ICES MATCH THE RECOMMENDA COORDINATION STUDY. CCORDANCE WITH NEC 230.8 RAC M AN UNDERGROUND DISTRIBUT	HILE ENERGIZED SHALL BE F OTENTIAL ARC FLASH HAZAF IE FACTORY. 110.24. THE SERVICE D WITH THE MAXIMUM AVAILA ATE THE CALCULATION WAS TS AROUND ELECTRICAL IEC SHALL BE STRICTLY ILE TO USE THE INFORMATION ND COORDINATION STUDY TO ABLE TRIP OVERCURRENT TIONS OF THE SHORT CIRCU CEWAYS ENTERING A BUILDI TION SYSTEM SHALL BE SEAL	FIELD1.UNDERGROUND SERVICE LATERAL CONDUCT PROTECTED FROM DAMAGE IN ACCORDANCE UNDERGROUND SERVICE CONDUCTORS THAY CONCRETE AND THAT ARE BURIED 18" OR MC SHALL HAVE THEIR LOCATION IDENTIFIED BY PLACED 12" ABOVE THE UNDERGROUND INST 2.ABLESHALL HAVE THEIR LOCATION IDENTIFIED BY PLACED 12" ABOVE THE UNDERGROUND INST 2.2.UNLESS LOCAL CODE DICTATES OTHERWISE, ENTRANCE LATERAL RACEWAY MUST BE BUR TOP OF THE RACEWAY UNLESS BELOW A CON OF CONCRETE. RACEWAY COVERED UNDER 2 BE BURIED AT LEAST 12" TO TOP OF RACEWA DO0.3.0.3.0.BACKFILL THAT CONTAINS LARGE ROCKS, PA CORROSIVE MATERIAL OR ANYTHING ELSE TH DAMAGE TO RACEWAYS OR CABLES IS NOT P 4.11T4.11ACONDUITS OR RACEWAYS THROUGH WHICH I CONTACT LIVE PARTS SHALL BE SEALED OR F BOTH ENDS. SPARE OR UNUSED RACEWAYS S SEALANTS SHALL BE IDENTIFIED FOR USE WI	TH ARTICLE 300.5. Image: Constraint of the second
CCORDANCE WITH 300.5.G.		INSULATION, SHIELD OR OTHER COMPONENT 5. PARALLEL SERVICE CONDUCTORS MUST BE 1 HAVE THE SAME CONDUCTOR MATERIAL, BE	
PANELS SHALL HAVE COPPER BU PANELBOARDS SHALL BE RATED		LIGAL THE COMPLEX CONTRACT OF A CONTRACT OF	
PANELS SHALL HAVE COPPER BU PANELBOARDS SHALL BE RATED EGORY. SEE STRUCTURAL PLANS TRACTOR SHALL PROVIDE SPAR	S FOR CATEGORY DETAILS.		D IN THE SAME
PANELS SHALL HAVE COPPER BU PANELBOARDS SHALL BE RATED EGORY. SEE STRUCTURAL PLAN	S FOR CATEGORY DETAILS. E BREAKERS AS INDICATED	ON THE SAME INSULATION TYPE, AND BE TERMIN MANNER. IN ADDITION THE RACEWAYS OR CA	D IN THE SAME

ONE

- 1.
- 2.
- 3.
- 4.
- 5.
- 7

GENERAL NOTES

- 1. ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE NEC (NATIONAL ELECTRICAL CODE) AND THE REQUIREMENTS OF ANY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 2. SEE PANEL SCHEDULES FOR ADDITIONAL CIRCUIT, CONDUIT AND LOAD **INFORMATION**
- 3. WHERE EXPOSED AND SUBJECT TO DAMAGE. CONDUIT SHALL BE GRC UP TO 10' AFF.
- 4. MINIMUM CONDUIT SIZE SHALL BE 3/4" AND MINIMUM WIRING SIZE SHALL BE
- #12AWG. 5. ALL CIRCUIT WIRING SHALL BE THHN TYPE WIRING.
- MULTIPLE CIRCUITS MAY BE COMBINED INTO A SINGLE CONDUIT ONLY BY APPLYING NEC ARTICLE 310.15.B.2. CONDUCTOR SIZES LISTED ON THE PANEL SCHEDULES DO NOT ACCOUNT FOR THE COMBINING OF CIRCUITS.
- 7. SLIGHT MODIFICATIONS TO DESIGNED CIRCUITRY ARE PERMITTED PROVIDED CIRCUIT LOADING, DERATING, BALANCE, AND VOLTAGE DROP ARE TAKEN INTO CONSIDERATION. ALL MODIFICATIONS MUST BE DILIGENTLY NOTED ON THE "AS-BUILT" DRAWING SET.
- 8. ALL BRANCH CIRCUIT SHALL BE INSTALLED USING EMT CONDUIT WITH COMPRESSION FITTINGS. IN ENGINEER/ARCHITECT APPROVED AREAS, MC CABLE SHALL BE PERMITTED, UOI.
- MC CABLE SHALL BE SUPPORTED AND SECURED AT INTERVALS NOT EXCEEDING 6' AND WITHIN 12" OF EVERY BOX, CABINET, FITTING OR OTHER CABLE TERMINATION UNLESS OTHERWISE PERMITTED BY NEC. SEE ARTICLE 330 FOR FURTHER INFORMATION.
- 10. EMT SHALL BE SECURELY FASTENED IN PLACE AT LEAST EVERY 10'. IN ADDITION, EACH EMT RUN SHALL BE SECURELY FASTENED WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, DEVICE BOX, CABINET, CONDUIT BODY. SEE ARTICLE 358 FOR FURTHER INFORMATION.
- 11. DO NOT SUPPORT RACEWAYS, BOXES, CABINETS, FITTINGS, CABLE ASSEMBLIES OR FIXTURES TO THE CEILING GRID SUPPORT SYSTEM. INDEPENDENT SUPPORT WIRES MAY BE USED AS A SOLE MEANS OF SUPPORT PROVIDED THEY ARE SECURED AT BOTH ENDS AND DISTINGUISHABLE BY COLOR, TAGGING OR OTHER EFFECTIVE MEANS FOR THE CEILING GRID SUPPORT SYSTEM.
- 12. ALL 208/120 VOLT WIRING SHALL ADHERE TO A "BLACK-RED-BLUE" COLOR CODE
- 13. AT LEAST 6" OF FREE CONDUCTOR, SHALL BE LEFT AT EACH OUTLET, JUNCTION, AND SWITCH POINT FOR SPLICES OR THE CONNECTION OF FIXTURES OR DEVICES WITH THE EXCEPTION OF CONDUCTORS THAT ARE NOT SPLICED OR TERMINATED AT THE OUTLET, JUNCTION, OR SWITCH POINT.
- 14. ALL CIRCUIT DESIGNATIONS SHALL BE MARKED ON JUNCTION BOXES WHERE THEY SPLICE OR PASS THROUGH
- 15. ALL CEILING MOUNTED 4" SQUARE JUNCTION BOXES SHALL BE 2 1/8" DEEP DEVICE BOXES (4" SQUARE AND PLASTER RING) MAY BE 1-1/2" DEEP. 16. THE NUMBER OF CONDUCTORS IN A JUNCTION BOX SHALL BE SUBJECT TO
- THE PROVISIONS OF NEC ARTICLE 314.16. 17. IN WALLS OR CEILINGS WITH A SURFACE OF CONCRETE, TILE, GYPSUM, PLASTER, OR OTHER NONCOMBUSTIBLE MATERIAL, BOXES SHALL BE
- INSTALLED SO THAT THE FRONT EDGE OF THE BOX (OR PLASTER RING) WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". (NEC 314.20).
- 18. BOXES SHALL BE INSTALLED SO THE WIRING CONTAINED WITHIN IS ACCESSIBLE.
- 19. METAL BOXES SHALL BE GROUNDED BY AN APPROVED MEANS. 20. WHERE NAILS OR SCREWS ARE LIKELY TO PENETRATE EMT OR MC CABLE, A STEEL SLEEVE, STEEL PLATE, OR STEEL CLIP NOT LESS THAN 1/16" THICKNESS SHALL BE USED TO PROTECT THE CABLE OR TUBING.
- 21. MOUNTING HEIGHTS OF WALL OUTLETS AFF TO BOTTOM SHALL BE AS FOLLOWS, UOI ON PLANS: SWITCHES-48", RECEPTACLES & PHONE/DATA OUTLETS IN OFFICE AREAS-18".
- 22. WHERE DEVICES ARE SHOWN TO BE INSTALLED ABOVE CASEWORK OR COUNTERS, EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE CASEWORK CONTRACTOR BEFORE ROUGH-IN WORK IS COMPLETED.
- 23. WHERE A GFCI RECEPTACLE IS USED. THE RECEPTACLE SHALL NOT BE LOCATED TO CONCEAL THE RECEPTACLE. IT MUST BE READILY ACCESSIBLE, PROVIDE GFCI BREAKER IF RECEPTACLE AS ALTERNATIVE PROTECTION.

GENERAL NOTES (CONT)

- 1. ALL MAJOR FEEDERS SHALL BE INSTALLED UNDER SLAB/UNDERGROUND USING SCHEDULE 40 PVC WHERE ACCEPTABLE.
- 2. ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.
- PROVIDE PROPER CONDUIT SEAL OFF AND INSULATION AT WALL PENETRATIONS BETWEEN AREAS OF DIFFERENT TEMPERATURES. 4. THE METHOD OF INSTALLING CONDUIT THROUGH INSULATED WALL SHALL BE AS FOLLOWS
- 4.1. HOLE SHALL BE CUT NEAT AT 1/4" LARGER THAN CONDUIT CONDUIT SHALL BE OF A PVC TYPE WHICH WILL EXTEND BEYOND WALL 4.2.
- FOR 1" ON EACH FACE. AFTER WIRE HAS BEEN INSTALLED, CONDUIT SHALL BE FILLED SOLID 4.3. WITH DUCT SEAL PLASTIC FILLER.
- 4.4. AFTER ALL WIRING IS COMPLETED, INSULATION CONTRACTOR SHALL SEAL CONDUIT WITH URETHANE FOAM AND VAPOR SEAL AROUND OUTSIDE OF CONDUIT
- 5. REFER TO ARTICLE 300.22 FOR WIRING IN AIR HANDLING (PLENUM) SPACES. ALL SPLICES SHALL BE MADE UP TIGHT USING APPROVED MATERIALS AND 6.
- "PULL TESTED" FOR INTEGRITY. 7. FLEXIBLE CORDS/CABLES SHALL BE CONNECTED TO DEVICES AND/OR FITTINGS SO THAT TENSION IS NOT TRANSMITTED TO JOINTS OR
- TERMINALS. 8. AN ENCLOSURE MOUNTED TO STRUCTURAL OR SUPPORTING ELEMENTS OF A SUSPENDED CEILING SHALL BE NOT MORE THAN 100 CUBIC INCHES IN SIZE AND SHALL BE SECURELY FASTENED TO THE CEILING GRID BY AN APPROVED MEANS.
- 9. RACEWAY CONNECTIONS TO TRANSFORMERS OR OTHER VIBRATING EQUIPMENT SHALL BE MADE USING AN APPROVED FLEXIBLE CONNECTION. 10. CONTRACTOR SHALL PROVIDE PUSHBUTTON FOR LOWERING CONTROL OF PROJECTOR LIFT AND MOTORIZED SCREEN. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS REQUIRED FOR THIS OPERATION. COORDINATE WITH
- A/V VENDORS.
- 11. ALL RECEPTACLES IN RESTROOM AREAS SHALL HAVE GFCI PROTECTION (GFCI BREAKER OR GFCI RECEPTACLE).
- 12. PLAN LAYOUT SHOWN IN THESE DOCUMENTS ARE SCHEMATIC AND ARE INTENDED TO ILLUSTRATE DESIGN INTENT. THE CONTRACTOR SHALL BE **RESPONSIBLE FOR FINAL DESIGN INCLUDING BUT NOT LIMITED TO SERVICE** ENTRY, PANEL SIZE, AND CIRCUITRY.
- WITH ALL APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, THE STANDARD ELECTRIC CODE AND THE NEC (LATEST APPLICABLE EDITION). PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL SECURE AN ELECTRICAL PERMIT FOR THEIR PORTION OF THE WORK
- 13. THE SCOPE OF WORK INDICATED SHALL BE EXECUTED IN ACCORDANCE 14. THE ELECTRICAL WORK SHOWN ON THE SUBMITTED PLANS SHALL BE PRIOR TO INSTALLATION.
- 15. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.
- 16. CONFIRM ELECTRICAL REQUIREMENTS FOR ANY OWNER SUPPLIED ITEMS PRIOR TO WIRING OR FINAL CIRCUITING. 17. SUBMIT CUT SHEETS FOR ELECTRICAL FIXTURES TO OWNER/ARCHITECT.
- 18. OUTLETS OF ANY TYPE SHALL NEVER BE INSTALLED BACK TO BACK.
- OUTLETS IN RATED WALL MUST BE INSTALLED 24" APART. 19. ALL LOW VOLTAGE WIRING, WITH EXCEPTION OF THE FIRE ALARM SYSTEM, IS THE OWNER'S RESPONSIBILITY.
- 20. CONTRACTOR SHALL PROVIDE J-HOOKS ON 24" SPACING ABOVE CEILING AS REQUIRED FOR NEW DATA CABLING. COORDINATE WITH OWNER. 21. IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR PROPER OPERATION OF ELECTRONIC LOCKING DOORS. DOOR LOCKS SHALL RELEASE UPON FIRE ALARM ACTIVATION. PROVIDE RELAYS FROM DOOR CONTROLLER TO FIRE ALARM CONTROL PANEL AS REQUIRED.
- COORDINATE ALL WORK WITH VENDOR.

GENERAL EQUIPMENT NOTES

- 1. CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS AS REQUIRED FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
- 2. CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR ALL MECHANICAL CONTROL PANELS AS REQUIRED. COORDINATE WITH MC.
- 3. PROPER CLEARANCE MUST BE MAINTAINED AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.26.
- 4. PANELBOARDS, STARTERS, DISCONNECT SWITCHES, ETC. SHALL BE INSTALLED SUCH THAT THE TOP OF THE EQUIPMENT IS 72" AFF, UOI.
- REFER TO THE MECHANICAL/PLUMBING DRAWINGS TO VERIFY EQUIPMENT LOCATIONS AND COORDINATION OF STARTERS, DISCONNECT SWITCHES, THERMOSTATS, CONTROL WIRING, DUCT DETECTORS, ETC.

GENERAL LIGHTING NOTES

- 1. SEE NEC ARTICLE 410 FOR MORE INFORMATION REGARDING LIGHTING FIXTURES
- 2. LIGHTING CIRCUITS ABOVE THE BAR JOIST OR IN CONCEALED AREAS MAY BE FLEXIBLE WIRING UOI.
- 3. LIGHT SWITCHES SHALL BE MOUNTED AT 48" TO THE BOTTOM
- OF THE BOX, UOI. 4. LAY IN TYPE LIGHTING FIXTURES SHALL BE SUPPORTED BY EITHER OF TWO METHODS:
- 4.1. THEY SHALL BE SECURELY ATTACHED TO THE CEILING GRID BOLTS, SCREWS, RIVETS, OR LISTED CLIPS IDENTIFIED FOR USE WITH THE CEILING MANUFACTURER
- 4.2. THEY SHALL BE ATTACHED TO THE BUILDING STRUCTURE BY AN INDEPENDENT MEANS (CEILING WIRE) AND COLOR CODED TO DISTINGUISH THIS SUPPORT FROM THE CEILING GRID SUPPORT SYSTEM.
- 5. A RECESSED LIGHTING FIXTURE THAT IS NON-TYPE IC SHALL HAVE ALL RECESSED PARTS SPACED NOT LESS THAN 1/2" FROM COMBUSTIBLE MATERIALS.
- 6. ALL 2' X 2' LIGHT FIXTURES SHALL BE ORIENTED SUCH THAT LONG EDGE OF LAMPS RUN THE SAME DIRECTION THROUGHOUT THE FACILITY.
- 7. ALL EMERGENCY/EGRESS FIXTURES AND SIGNS MOUNTED ABOVE DOORWAYS SHALL SHALL CENTER MTD ON WALL ABOVE DOOR HEADER, UOI.
- 8. OUTLET BOXES OR FITTINGS INSTALLED AS REQUIRED BY ARTICLE 314.23 SHALL BE PERMITTED TO SUPPORT LIGHTING FIXTURES
- DURING INSTALLATION, IF AN OBVIOUS CONFLICT IS DISCOVERED BETWEEN LIGHTING FIXTURES AND OTHER BUILDING ELEMENTS (STRUCTURE, HVAC, PLUMBING SPRINKLER, ETC.) THE CONTRACTOR HAS THE AUTHORITY TO MAKE MINOR ADJUSTMENTS TO THE FIXTURE LAYOUT. OTHER ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
- 10. LIGHT FIXTURES HAVE BEEN SELECTED TO BE OF PROPER CONSTRUCTION AND LISTED FOR THE ENVIRONMENT. ANY DEVIATION IN THE TYPE OR LOCATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
- 11. SEE ARCHITECTURAL REFLECTED CEILING PLANS (WHERE AVAILABLE) FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT
- 12. LIGHT FIXTURES SHALL NOT BE USED AS A RACEWAY, UNLESS LISTED AND MARKED FOR THAT PURPOSE.
- 13. THESE DRAWINGS SHOW THE INTENT OF THE DESIGNER. EVERY WIRE IS NOT ILLUSTRATED (EXAMPLES: WIRING BETWEEN 3-WAY SWITCHES, WIRING FOR AN EMERGENCY BALLAST, ETC.) ON THESE DRAWINGS.
- 14. THE INSTALLER SHOULD REFER TO THE DETAILS FOR THE PROPER WIRING OF OCCUPANCY SENSORS. COORDINATE WITH VENDOR.
- 15. CONDUITS, LIGHTING FIXTURES, ETC SHALL NOT BE MOUNTED DIRECTLY BELOW SMOKE/HEAT VENTS, SPRINKLER HEADS, EVAPORATOR VENTS OR SKY LIGHTS.
- 16. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL FIXTURES NOT PRE-APPROVED BY ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID.
- 17. ALL OCCUPANCY SENSORS SHALL BE SET WITH A 10 MINUTE TIME OUT, WITH THE EXCEPTION OF RESTROOM SENSORS. ALL RESTROOM SENSORS SHALL BE SET WITH A 20 MINUTE TIME OUT.
- 18. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR PROPER OPERATION OF FIXTURES.
- 19. CONTRACTOR SHALL REFER TO LATEST ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- 20. SHORT DASHED CIRCUITS REPRESENT CIRCUITS WHICH ARE EMERGENCY OR UN-SWITCHED NIGHT LIGHT CIRCUITS. EACH FIXTURE WITH AN EMERGENCY BALLAST REQUIRES A WIRE WHICH IS CONSTANTLY HOT (NOT SWITCHED) FOR PROPER OPERATION.IF NIGHT LIGHT CIRCUIT, CIRCUIT FIXTURES AHEAD OF ANY SWITCHES OR SENSORS.
- 21. ALL LIGHTING LAYOUTS ARE BASED ON REFLECTED CEILING PLANS. DO NOT ALTER THE NUMBER OF FIXTURES INDICATED ON DRAWINGS. SEE FIXTURE SCHEDULE FOR APPLICABLE NOTES.
- 22. CONTRACTOR SHALL PROVIDE POWER PACKS FOR OCCUPANCY SENSORS AS REQUIRED BY MANUFACTURER. PROVIDE 120V CIRCUITS FROM NEAREST 120V PANEL AS REQUIRED.
- 23. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR **OPERATION OF OCCUPANCY SENSORS, INCLUDING FOR USE** WITH MECHANICAL LOADS - EXHAUST FANS.
- 24. CONTRACTOR SHALL CONCEAL ALL WIRES AND DEVICES WHERE POSSIBLE. IN AREAS WHERE CONCEALMENT IS NOT PRACTICAL, PROVIDE WIREMOLD PAINTED TO MATCH FINISHES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.

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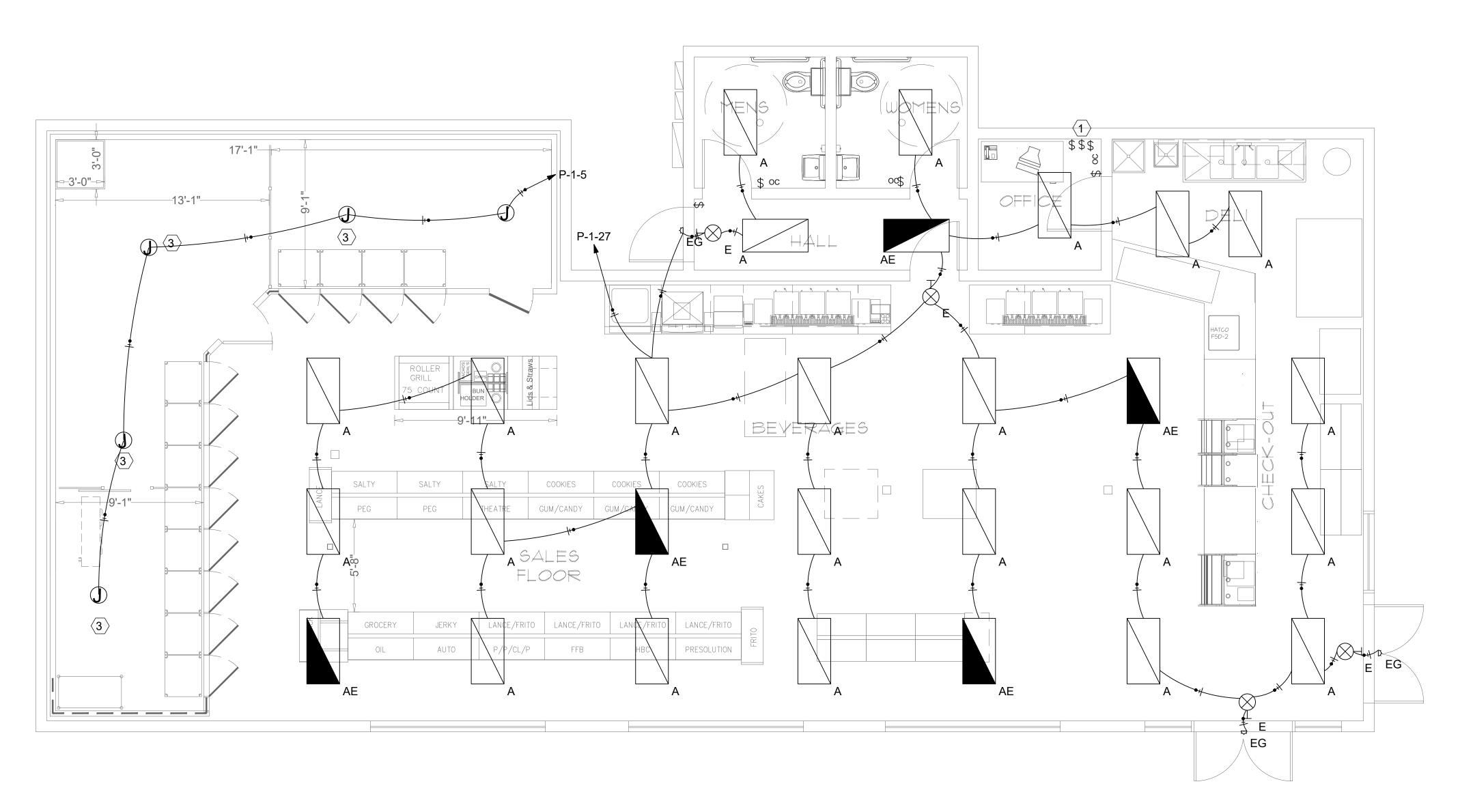
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ALL CONNECTIONS OF WI E MADE EXOTHERMICAL METAL RACEWAYS FOR S GROUNDED. A METAL ELE INSTALLATION OF RIGID N OSSIBLE CONTACT BY A HALL NOT BE REQUIRED ION-CURRENT-CARRYING UNCTION BOXES, ETC., E R FORMING PART OF SU HE NON-CURRENT-CARF RACEWAYS AND ENCLOS METER FITTINGS, BOXES, IND TO ALL INTERVENING ERVICE EQUIPMENT AND HALL INCLUDE EXOTHEF ISTED CLAMPS, CONNEC OSSES ON ENCLOSURES	RE-TO-WIRE, WIRE-TO- LY USING APPROPRIAT ERVICE CONDUCTORS OW THAT IS INSTALLE ON-METALLIC CONDUI MINIMUM COVER OF 1 TO BE GROUNDED. CONDUCTIVE MATER NCLOSING ELECTRICA CH EQUIPMENT, SHALL YING METAL PARTS OF URES CONTAINING SE OR THE LIKE, INTERPO IDED TOGETHER. BON GRACEWAYS, BOXES, A THE GROUNDING ELE MIC WELDING, LISTED TIONS UTILIZING THRE WHERE MADE UP WR	F SERVICE EQUIPMENT RVICE CONDUCTORS, INCLUE DSED IN THE SERVICE RACEW DING SHALL APPLY AT EACH I AND ENCLOSURES BETWEEN ECTRODE. METHODS OF BONE PRESSURE CONNECTORS, EADED COUPLINGS OR THREA RENCH-TIGHT, OTHER APPRO\	AMPS. DW JIT, ENT, DING VAY END THE DING	THESE DRAWINGS AND SPECIFICATIONS ARE	OWNED AND COPYRICHTED BY GUY PAYNE & ASSOCIATES ARCHITECTS. AND MAY NOT BE USED, COP- IED, OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT. ANY UNAUTHORIZED USE OR DIS-	OF THE PROPRIETARY INFORMA D HEREIN MAY SUBJECT SUCH CRIMINAL AND CIVIL PENALTIES
QUIPMENT TO BE GROUI ONTACT SURFACES TO I ONNECTED BY MEANS C NNECESSARY. IETAL RACEWAYS, CABLI IETAL NON-CURRENT-CA ONDUCTORS, WITH OR V ROUNDING CONDUCTOF IECESSARY TO ENSURE I ONDUCT SAFELY ANY FA XPOSED NON-CURRENT O BECOME ENERGIZED S ONDITIONS: WHERE WITHIN' 8' VE GROUNDED METAL O WHERE IN ELECTRICA WHERE IN ELECTRICA WHERE SUPPLIED BY OR OTHER WIRING M WHERE EQUIPMENT O GROUND ILL GROUNDING CONDUC NSURE SHORTEST POSS ONDING JUMPERS MEET HALL BE USED AROUND UNCHED OR OTHERWISE	IGS (SUCH AS PAINT, L NDED SHALL BE REMO ENSURE GOOD ELECTR F FITTINGS DESIGNED TRAYS, ENCLOSURES RRYING PARTS THAT A VITHOUT THE USE OF S RS, SHALL BE EFFECTIVE ELECTRICAL CONTINUE AULT CURRENT LIKELY CARRYING METAL PAR SHALL BE GROUNDED I RTICALLY OR 5' HORIZO BJECTS AND SUBJECT A WET OR DAMP LOCATA WET OR DAMP LOCATA A METAL-CLAD, METAL ETHOD THAT PROVIDE DPERATES WITH ANY T CTORS AND BONDING J SIBLE CONDUCTOR LEN ING THE OTHER REQU CONCENTRIC OR ECCI E FORMED SO AS TO IN	ACQUER, AND ENAMEL) ON VED FROM THREADS AND OT RICAL CONTINUITY OR BE SO AS TO MAKE SUCH REMO S, FRAMES, FITTINGS, AND OT ARE TO SERVE AS GROUNDIN SUPPLEMENTARY EQUIPMENT VELY BONDED WHERE ITY AND THE CAPACITY TO TO BE IMPOSED ON THEM. RTS OF FIXED EQUIPMENT LIK UNDER ANY OF THE FOLLOWI ONTALLY OF GROUND OR TO CONTACT BY PERSONS TION AND NOT ISOLATED TAL AL-SHEATHED, METAL-RACEW ES AN EQUIPMENT GROUND FERMINAL AT OVER 150 VOLTS JUMPERS SHALL BE ROUTED T NGTH. VIREMENTS OF THIS ARTICLE ENTRIC KNOCKOUTS THAT AF	OVAL THER IG T KELY ING VAY, S TO TO RE			PO Box 213 (Mailing) Phone (606)–364–2886 4236 HWY 3630 Fax (606)–364–5100 Annville, KY 40402 E-Mail: eric@emrengineers.com
HE SOLE MEANS FOR TH COMcheck Interior Project Information Energy Code: Project Title: Project Type: Construction Site: c store piperton, Tennessee	E BONDING REQUIRED Software Version Lighting Com 2018 IECC cstore springfield New Construction Owner/Agent:	D BY THIS SECTION.		REVISIONS	No. Date Description	
1-Retail Proposed Interior Lighting Fixture ID : Description I-Retail LED: LED Linear 20W: Interior Lighting PASSES: Design Interior Lighting Complian Statement Compliance Statement: The propose specifications, and other calculations	ower A ategory Power A Lamp / Wattage Per Lamp / Balla 61% better than code ce d interior lighting design represent submitted with this permit applica irements in COM <i>check</i> Version CO	(ft2) Watts / ft2 2854 0.95 Total Allowed Watts = B C D	1053 = 1053 hilding plans, have been		OPRINGFIELD C-STORE	
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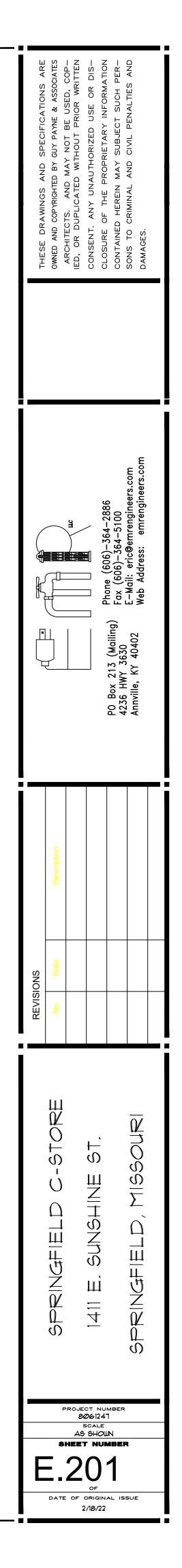


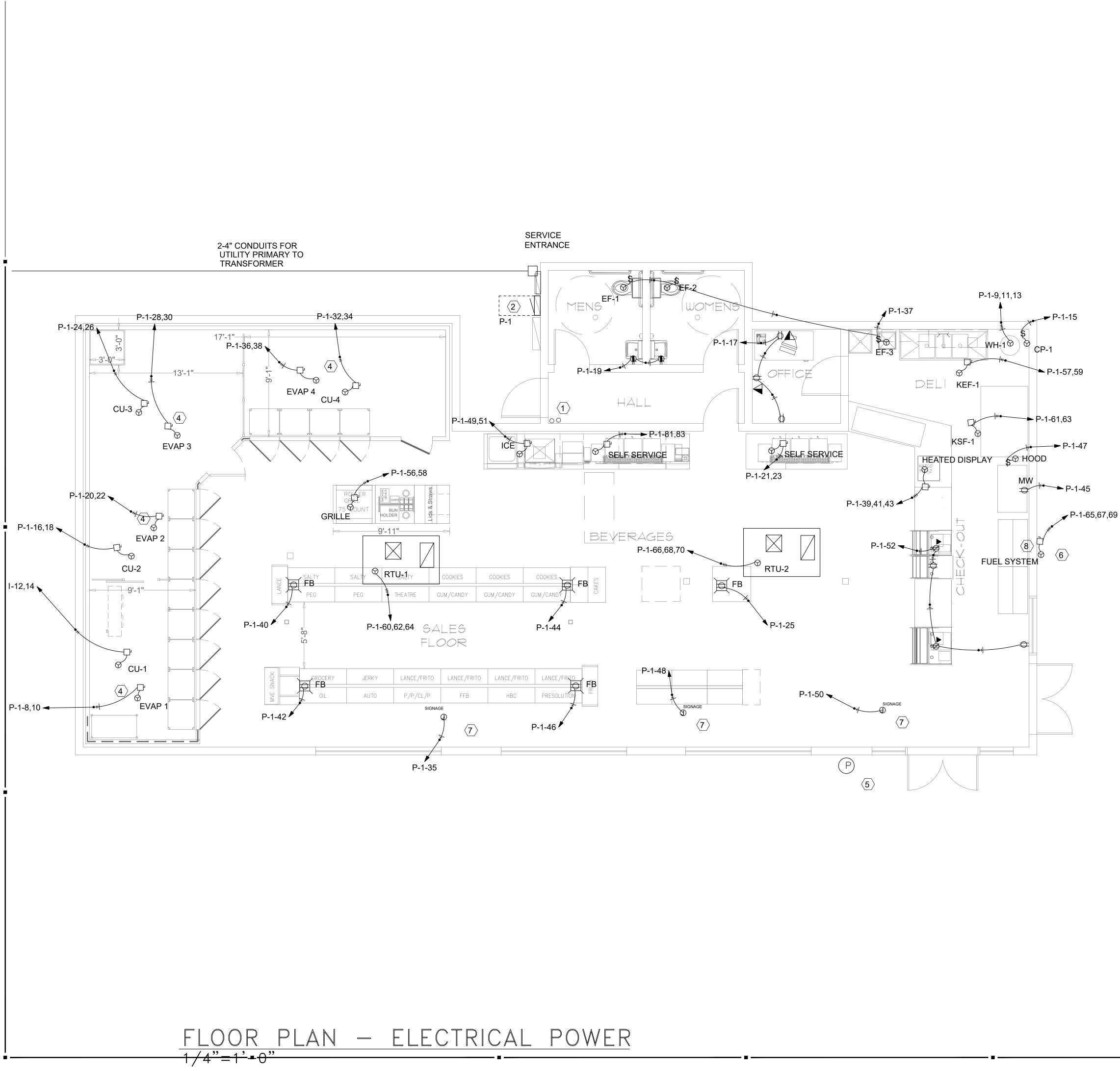
<u>FLOOR PLAN - ELECTRICAL LIGHTING</u>

1/4"=1'=0"

KEY NOTES

- ① COORDINATE LOCATION FOR LIGHT SWITCHES FOR FRONT OF HOUSE AND BACK OF HOUSE. TYP FOR 3
- ② ROUTE CIRCUIT THRU TIME CLOCK PHOTOCELL
- (3) PROVIDE POWER FOR LIGHTING IN COOLERS AND FREEZERS.
- (4) COORDINATE LOCATION AND QUANTITY OF CANOPY FIXTURE WITH FUEL VENDOR LAYOUT AND EXTEND AS REQUIRED
- GENERAL NOTES:
- 1. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AS REQUIRED FOR ALL MECH & PLBG EQUIPMENT. COORD EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGHIN.
- ALL HOMERUNS WHERE WIRE SIZE IS NOT SPECIFIED IS 12 AWG
 CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL
- EXTERIOR FIXTURES WITH ARCH ELEVATIONS.4. EXTERIOR LIGHTING AND SIGNAGE TO BE ROUTED THROUGH PHOTOCELL.
- 5. COORDINATE ELEVATION AND LOCATIONS OF ALL OUTLETS IN ALL FINISH SPACES WITH OWNER.
- 6. ALL EQUIPMENT SHALL HAVE DISCONNECTS RATED FOR THE AMPERAGE OF THE EQUIPMENT INSTALLED.





KEY NOTES

CONTRACTOR SHALL PROVIDE (2) 2" CONDUIT FOR $\langle 1 \rangle$ COMMUNICATIONS STUBBED INTO BAY AS SHOWN. ROUTE ALL CONDUIT UNDERGROUND TO THE PROPERTY LINE.

 $\langle 2 \rangle$ CONTRACTOR SHALL COORDINATE WITH OWNER FOR EXACT LOCATION OF PANEL WITH OWNER AND EXTEND WIRING AND CONDUIT AS REQUIRED

 $\langle 3. \rangle$ COORDINATE LOCATION FOR LIGHT SWITCHES FOR FRONT OF HOUSE AND BACK OF HOUSE. TYP FOR 3

 $\langle 4. \rangle$ VERIFY POWER REQUIREMENTS FOR COOLERS.

PROVIDE DISCONNECTS FOR EACH PIECE OF EQUIPMENT PER CODE.

(5) EMERGENCY PUSH BUTTON

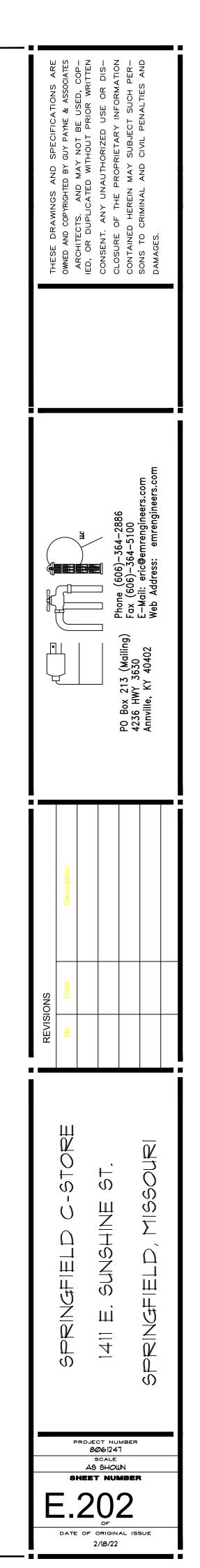
(6.) PETROLEUM VENDOR MANAGEMENT SYSTEM, ROUGHIN AND EMERGENCY SHUT-OFF BUTTON.

 $\langle 7 \rangle$ PROVIDE POWER AS REQUIRED FOR SIGNAGE WITHIN STORE. COORDINATE QUANTITY AND LOCATION WITH OWNER.

 $\langle 8. \rangle$ RESERVE SPACE FOR FUEL DELIVERY DISTRIBUTION EQUIPMENT. INSTALL 100A/3P DISCONNECT. REFER TO FUEL SYSTEM VENDOR DRAWINGS FOR REQUIREMENTS. COORDINATE ALL ROUGHIN REQUIREMENTS

GENERAL NOTES:

- 1. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AS REQUIRED FOR ALL MECH & PLBG EQUIPMENT. COORD EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGHIN.
- 2. ALL HOMERUNS WHERE WIRE SIZE IS NOT SPECIFIED IS 12 AWG
- 3. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EXTERIOR FIXTURES WITH ARCH ELEVATIONS.
- 4. EXTERIOR LIGHTING AND SIGNAGE TO BE ROUTED THROUGH PHOTOCELL.
- 5. COORDINATE ELEVATION AND LOCATIONS OF ALL OUTLETS IN ALL FINISH SPACES WITH OWNER.
- 6. ALL EQUIPMENT SHALL HAVE DISCONNECTS RATED FOR THE AMPERAGE OF THE EQUIPMENT INSTALLED.
- 7. CONTRACTOR TO COORDINATE WITH OWNER AND EQUIPMENT PLANS PRIOR TO ROUGHIN AND PROVIDE ALL REQUIRED POWER, DISCONNECTS, AND CIRCUITS BASED ON REQUIREMENTS OF OWNER'S INSTALLED EQUIPMENT.



LPG	LOW PRESSURE GAS (0.5 PSIG)	AC-1	AIR CURTAIN	2.
HPG	HIGH PRESSURE GAS (5 PSIG)	SA	SUPPLY AIR	3.
DX	DIRECT EXPANSION	SAD	SUPPLY AIR DUCT	4.
ESP	EXTERNAL STATIC PRESSURE	TAD	TRANSFER AIR DUCT	
LAT	LEAVING AIR TEMPERATURE	AFF	ABOVE FINISHED FLOOR	
EAT	ENTERING AIR TEMPERATURE	CFM	CUBIC FEET PER MINUTE	5.
EF-1	EXHAUST FAN	TYP	TYPICAL	6. 7.
DN	DOWN	8Ø	ROUND DUCTWORK	8.
OSA	OUTSIDE AIR	RTU-1	PACKAGED ROOFTOP UNIT	9.
EAD	EXHAUST AIR DUCT	H-1	KITCHEN EXHAUST HOOD	10.
RA	RETURN AIR	10x6	RECTANGULAR DUCT (WIDTHxDEPTH	
RAD	RETURN AIR DUCT	UH-1	ELECTRIC UNIT HEATER	11.
				12.
				13.
				14.
	SUPPLY DUCT IN SECTION		NEW WORK	15.
	RETURN/EXHAUST DUCT IN SECTION	N <u>/////</u>	EXISTING WORK TO BE REMOVED	
90	SMOKE DETECTOR		EXISTING WORK TO REMAIN	16.

				•
	RETURN/EXHAUST DUCT IN SECTION	+++++	EXISTING WORK TO BE REMOVED	4
SD	SMOKE DETECTOR		EXISTING WORK TO REMAIN	1
			CONNECT NEW TO EXISTING	1
	VOLUME DAMPER	P	MANAUL PULL STATION	1
— M	MOTORIZED DAMPER	(A) 500	DIFFUSER CFM AND TYPE	2
	TURNING VANES		RETURN/EXHAUST AIR DEVICE	2
	FIRE DAMPER		AIRFLOW DIRECTION	2 2
	FIRE/SMOKE DAMPER	\bigcirc	THERMOSTAT	2
		K	PRV	2
	SUPPLY DIFFUSER			2 2
	Legend - Mechanical			3
				0

REFER TO LOCAL ADOPTED INTERNATIONAL BUILDING CODE

SEISMIC RESTRAINTS SHALL NOT BE REQUIRED FOR THE FOLLOWING INSTALLATIONS:

- PIPING IN MECHANICAL ROOMS (EXCEPT GAS PIPING) LESS THAN 1-1/4 INCH INSIDE DIAMETER
- ALL OTHER PIPING (EXCEPT GAS PIPING) LESS THAN 2-1/2 INCH INSIDE DIAMETER. В.
- ALL RECTANGULAR DUCTS LESS THAN 6 SQ. FT. IN CROSS-SECTIONAL AREA.
- ALL ROUND DUCTS LESS THAN 28 INCHES IN DIAMETER. D.
- ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.
- ALL DUCTS SUSPENDED BY HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

2 Seismic Notes - Mechanical

MARK RTU-1 RTU-2 1. RTU TO BE

		C	GENERAL D	ΑΤΑ			ELECTR	RICAL	
MARK	CFM	MAX SONE RATING	EST EXT SP INWG	DISCHARGE	ТҮРЕ	DRIVE	HP	VOLTS / PHASE	COMMENTS
EF-1	150	2	0.3	WALL	INLINE	DIRECT	180 WATS	120/1	1 INTERLOCK WITH LIGHT
EF-2	150	2	0.3	WALL	INLINE	DIRECT	180 WATS	120/1	1 INTERLOCK WITH LIGHT
EF-3	75	2	0.3	WALL	INLINE	DIRECT	100 WATTS	120/1	1 INTERLOCK WITH LIGHT

- FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- ATTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT, PIPING, ETC., IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK; MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT INTO THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR ONE YEAR.
- PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
- CONSTRUCT AIR DUCTS IN ACCORDANCE WITH SMACNA DUCT MANUALS LATEST EDITION.
- HVAC WORK INDICATED DIAGRAMATICALLY, EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH STATE CODES, MANUFACTURER'S APPROVED PUBLISHED LITERATURE, AND AUTHORITIES HAVING JURISDICTION.
- INSTALLATION OF ALL EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT.
- COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
- FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 3'-0".
- COMPLETION AND TESTS SHALL INCLUDE CLEANING AND LUBRICATION OF ALL EQUIPMENT, AND ADJUSTMENTS FOR PROPER OPERATION. ADJUST DAMPERS, REGISTERS AND DIFFUSERS FOR PROPER AIR DISTRIBUTION. CHECK SYSTEM UNDER ACTUAL OPERATING CONDITIONS AND MAKE ADJUSTMENTS FOR A UNIFORM TEMPERATURE THROUGH THE CONDITIONED SPACE.
- LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE EXACT LOCATION AND MODIFY DUCTS/PIPES ACCORDINGLY.
- CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING. CONTRACTOR SHALL MODIFY DUCTWORK TO FIT AVAILABLE FIELD CONDITIONS.
- 17. ALL MATERIAL INSTALLED IN RETURN AIR PLENUM SHALL HAVE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50. 19. INSTALL PLENUM RATED ELECTRICAL AND LOW VOLTAGE CABLE IN RETURN AIR
- PLENUM. 20. SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS FOR ACTUAL
- LINE LENGTHS AND VERTICAL LIFT REQUIRED. 21. ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
- 22. PROVIDE FIRESTOP WHERE PIPES, CONDUITS, BUS DUCTS, WIRES, DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT PENETRATING RATED FLOORS AND WALLS.
- 23. ALL CEILING EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS. PIPING. AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES. 24. ALL DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS
- 25. PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKEOFF AND IN SUCH OTHER LOCATIONS WHERE REQUIRED TO PROPERLY BALANCE THE SYSTEM. 26. PROVIDE INSTRUMENT TEST HOLES WITH CAPS IN AIR DISTRIBUTION SYSTEMS
- WHEREVER VOLUME DAMPER ARE REQUIRED. 27. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT
- INSTALLATIONS SHALL BE PROVIDED BY HVAC CONTRACTOR.
- 28. ALL TRANSFER DUCTS SHALL BE INTERNALLY LINED. 29. ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES. ALL ROUND ELBOWS SHALL HAVE A CENTER TO FACE DIMENSION OF 1.5 X THE DUCT WIDTH. 30. CONTRACTOR SHALL FURNISH TESTING & BALANCING REPORT TO ENGINEER & OWNER
- PRIOR TO FINAL INSPECTION TO VERIFY REQUIRED PERFORMANCE HAS ACIEVED. 31. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN
- FURRED CHASES OR SUSPENDED CEILINGS UNLESS OTHERWISE NOTED. 32. ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, DAMPERS,
- CONTROLS, ETC., AND SHALL BE FURNISHED UNDER ARCHITECTURAL SPECIFICATIONS. 33. DUCTWORK AND RELATED SHEET METAL WORK:
- A. CLASSIFICATION: LOW PRESSURE DUCTWORK SHALL BE LIMITED TO SYSTEMS OPERATING AT STATIC PRESSURES OF TWO INCHES OF WATER OR LESS AND HIGH PRESSURE DUCTWORK SHALL BE SYSTEMS OPERATING ABOVE TWO INCHES WATER COLUMN

3 Specifications - Mechanical

					PAC	KAGE	ROOFTOP	UNIT SCHED	ULE									
	NOMINA						SUPPLY &			DX CO	OLING COI	L	GAS HE	EATING SE	CTION			
SUPPLY	L	OSA	SEER	EXT.	VOLTS /PHAS	MCA	RETURN	RFEFRIGERAN	ENT	. AIR	SENSIBL	TOTAL	ENT. AIR	LVG AIR	INPUT	REMARKS	WEIGHT	DIMENSIONS
AIR-CFM	TONNAG	CFM	JEER	S.P.W.G	F	WCA	SMOKE	т	db°F	wb°F	E	BTU/HR	TEMP.			REIVIARNO		DIVIENSIONS
	E						DECTECTOR				BTU/HR	Bromit	°F		Bronny			
1,950	5	390	15	0.75	208/3	30	NO	R-410A	80	67	47,300	63,500	60	115	80,000	1	1100	53"x88"x40" h
1,950	5	390	15	0.75	208/3	30	NO	R-410A	80	67	47,300	63,500	60	115	80,000	1	1100	53"x88"x40" h
	YC OR EC		OM JCI W	NTH DISCO	ONNEC	.ECON	MIZER, 14" RO	OF CURB, POW	ERED CO	ONVENI	ENCE OUT	LET AND	ROGRAM	MABLETI	HERMOS1	TAT		

PROVIDE AUXILLARY DRAIN SYSTEM

ON, GRILLE KIT, ANI

- FLEXIBLE AFTER AIR CURING, 3M TYPE 800 OR EQUAL

- 90A AND 90B. FOLLOWING CONDITIONS (AS APPLICABLE)
- FIRE CONDITION DETECTED ON A COVERED HOOD FEATURES
- **ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION**
- FAN STARTER OVERLOAD TRIP DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION. TEMPERATURE SENSOR FAILURE/MIS-WIRING DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION
- E. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION
- MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN

MATERIALS: MATERIALS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING. SEAM MARKS. ROLLER MARKS. STAINS. DISCOLORATIONS. AND OTHER IMPERFECTIONS. THE GALVANIZED SHEET COATING SHALL BE G60 (Z180) CONFORMING TO ASTM A 653/A 653M. HIGH PRESSURE ROUND DUCTS SHALL BE MACHINE LUBRICATED SPIRAL LOCK SEAM TYPE. ROUND FITTINGS AND ROUND SPIRAL DUCT SHALL BE AS MANUFACTURED BY SHEET METAL CONNECTORS, INC; LINDAB, INC.; SPIRAL MANUFACTURING COMPANY, INC; OR EQUAL GASKETS FOR HIGH PRESSURE DUCTS SHALL BE 3M TYPE 1202 OR EQUAL REINFORCED SYNTHETIC RUBBER SEALANT TYPE NOT LESS THAN 1/4 INCH THICK AND 3/8" WIDE; LIQUID DUCT SEALANT SHALL BE BRUSH OR FLOW GUN GRADE WHICH REMAINS

CONSTRUCTION: CONSTRUCT DUCTWORK (EXCEPT FLEXIBLE DUCTING) WITH CAREFUL, NEAT, AND ACCURATE WORKMANSHIP, AND AIRTIGHT JOINTS AND SEAMS. CONSTRUCT DUCTWORK AND INSTALL IN ACCORDANCE WITH LATEST EDITIONS OF SMACNA'S "LOW VELOCITY DUCT CONSTRUCTION STANDARDS" OR AS APPLICABLE TO CLASSIFICATION OF DUCTWORK INVOLVED, INCLUDING ALL APPLICABLE RECOMMENDATIONS OF THESE STANDARDS.

34. ALL DUCTWORK SHALL BE INSULATED EXTERNALLY WITH TWO INCH FLEXIBLE FIBERGLASS DUCT WRAP. INSULATION SHALL COMPLY WITH ANSI/ASTM C612; COMMERCIAL GRADE; 'K' VALUE OF 0.29 AT 75 °F. PROVIDE A 0.002 INCH FOIL SCRIM FACING FOR DUCTWORK INSULATION. SECURE INSULATION WITH VAPOR BARRIER WITH WIRES AND SEAL JACKET JOINTS WITH VAPOR BARRIER ADHESIVE OR TAPE TO MATCH JACKET. SECURE INSULATION WITHOUT VAPOR BARRIER WITH STAPLES, TAPE, OR WIRES. RETURN AIR DUCTS SHALL BE INSULATED W/ 1" ACOUSTICAL DUCT LINER, 1.5 PCF MIN. DENSITY. 35. KITCHEN HOOD SPECIFICATION: CONSTRUCTION SHALL BE TYPE 430 STAINLESS STEEL, WITH A #3 OR #4 POLISH WHERE EXPOSED. THE MANUFACTURER, ETL, AND NSF SHALL DETERMINE THE INDIVIDUAL COMPONENT CONSTRUCTION. CONSTRUCTION SHALL BE DEPENDENT ON THE STRUCTURAL APPLICATION TO MINIMIZE DISTORTION AND OTHER DEFECTS. ALL SEAMS, JOINTS, AND PENETRATIONS OF THE HOOD ENCLOSURE TO THE LOWER OUTERMOST PERIMETER THAT DIRECTS AND CAPTURES GREASE-LADEN VAPOR AND EXHAUST GASES SHALL HAVE A LIQUID-TIGHT CONTINUOUS EXTERNAL WELD IN ACCORDANCE WITH NFPA 96. THE HOOD SHALL BE WALL TYPE WITH A MINIMUM OF FOUR CONNECTIONS FOR HANGER RODS CONNECTORS SHALL HAVE 9/16" HOLES PRE-PUNCHED IN 1 1/2" X 1 1/2" ANGLE IRON AT THE FACTORY TO ALLOW FOR HANGER ROD CONNECTION BY OTHERS. THE HOOD SHALL BE FURNISHED WITH U.L. CLASSIFIED STAINLESS STEEL FILTERS. SUPPLIED IN SIZE AND QUANTITY AS REQUIRED BY VENTILATOR. THE FILTERS SHALL EXTEND THE FULL LENGTH OF THE HOOD AND THE FILLER PANELS SHALL NOT BE MORE THAN 6" IN WIDTH. EXHAUST DUCT COLLAR TO BE 4" HIGH WITH 1" FLANGE. U.L INCANDESCENT LIGHT FIXTURES AND GLOBES SHALL BE INSTALLED AND PRE-WIRED TO A JUNCTION BOX. THE LIGHT FIXTURES SHALL BE INSTALLED WITH A MAXIMUM OF 4'0" SPACING ON CENTER AND ALLOW UP TO A 100 WATT STANDARD LIGHT BULB. THE HOOD SHALL HAVE: - A DOUBLE WALL INSULATED FRONT TO ELIMINATE CONDENSATION AND INCREASE RIGIDITY. THE INSULATION SHALL HAVE A FLEXURAL MODULUS OF 475 EI, MEET UL 181 REQUIREMENTS, AND BE IN ACCORDANCE WITH NFPA - AN INTEGRAL FRONT BAFFLE TO DIRECT GREASE LADEN VAPORS TOWARD THE EXHAUST FILTER BANK. - A BUILT-IN WIRING CHASE PROVIDED FOR OUTLETS AND ELECTRICAL CONTROLS ON THE HOOD FACE AND SHALL NOT PENETRATE THE CAPTURE AREA OR REQUIRE AN EXTERNAL CHASE WAY. - REMOVABLE GREASE CUP FOR EASY CLEANING. THE HOOD SHALL BE ETL LISTED AS "EXHAUST HOOD WITHOUT EXHAUST DAMPER", NSF LISTED, AND BUILT IN ACCORDANCE WITH NFPA 96. THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL300) THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE. THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY. HOOD CONTROL PANEL SPECIFICATIONS: THE CONTROL PANEL SHALL BE LISTED TO UL STANDARD UL508A. THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY

CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL. TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL. A DIGITAL THERMOSTAT CONTROLLER, LISTED TO UL STANDARD UL61010-1, SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A +10 DEGREE ADJUSTABLE OFFSET FROM THE ROOM TEMPERATURE SENSOR. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.2.1.1. A DIGITAL THERMOSTAT CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED. A DIGITAL THERMOSTAT CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING. A DIGITAL THERMOSTAT CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY UNDER THE

EXCESSIVE TEMPERATURE DETECTED ON ANY DUCT TEMPERATURE SENSOR IN THE SYSTEM (250 F ADJUSTABLE) A DIGITAL THERMOSTAT CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE). AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING

INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED)

36. GAS PIPING - STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B.

WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING

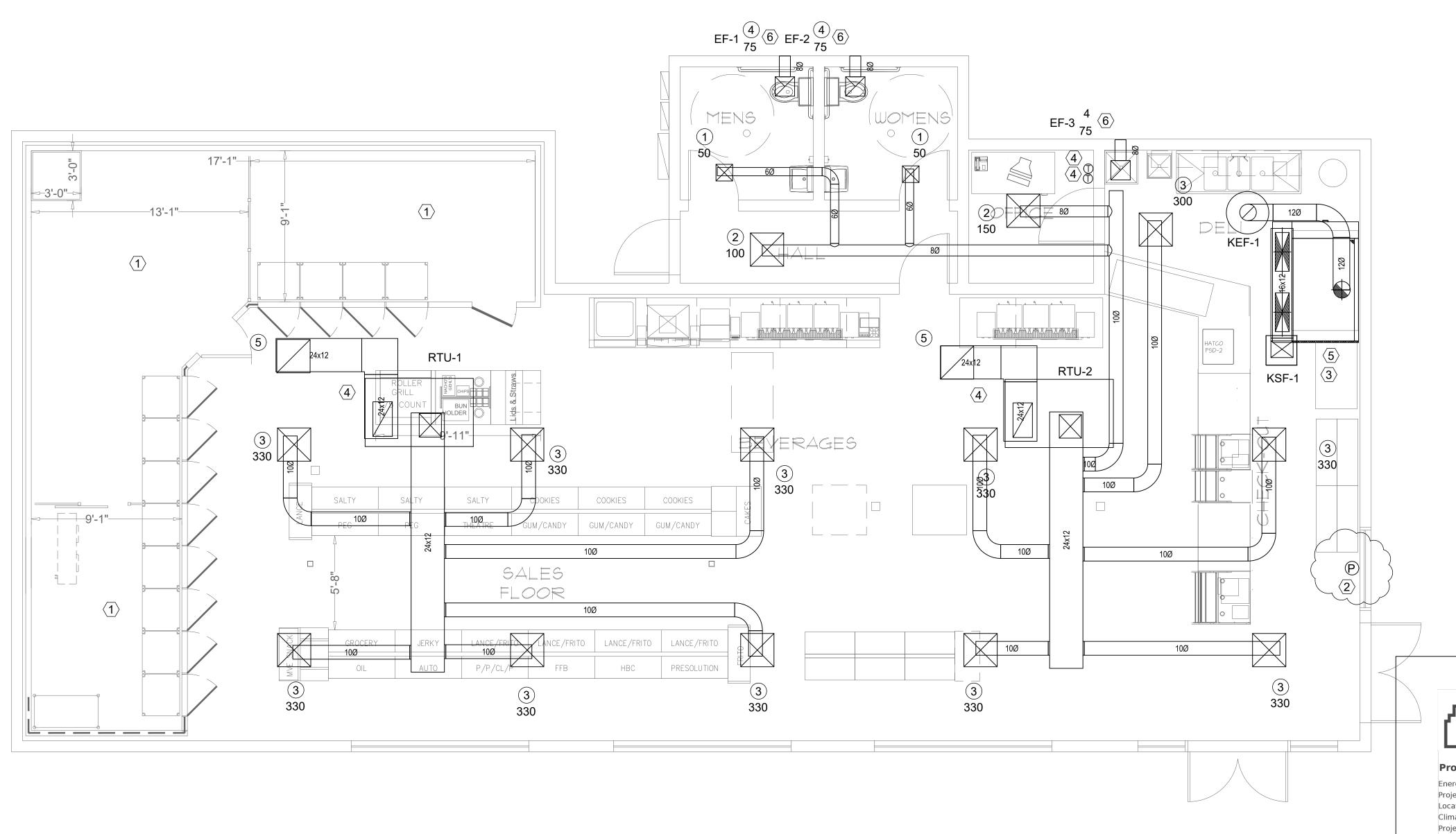
UNIONS: ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT, GROUND JOINT, AND THREADED ENDS. PIPING 3/4" TO 2" FOR SYSTEMS WITH OPERATING PRESSURE OF 2 PSIG OR LESS SHALL HAVE THREADED JOINTS. PIPING OVER 2" WITH AN OPERATING PRESSURE OF 2 PSIG OR LESS SHALL HAVE WELDED JOINTS. ALL PIPING WITH AN OPERATING PRESSURE OVER 2 PSIG SHALL BE WELDED.

	AI		UTION SCH	IEDULE	
	NECK	FACE		MAX SP	
MARK	SIZE	SIZE	MAX NC	DROP IN	COMMENTS
1	6"	12X12	30	0.1	1
2	10"	24X24	30	0.1	1
3	12"	24X24	30	0.1	1
4	10X10	12X12	30	0.1	1
5	22X22	24X24	30	0.1	2

1. SUPPLY AIR DEVICE TO BE EQUAL TO NAILOR RNS WITH FACTORY INSULATED BACK.

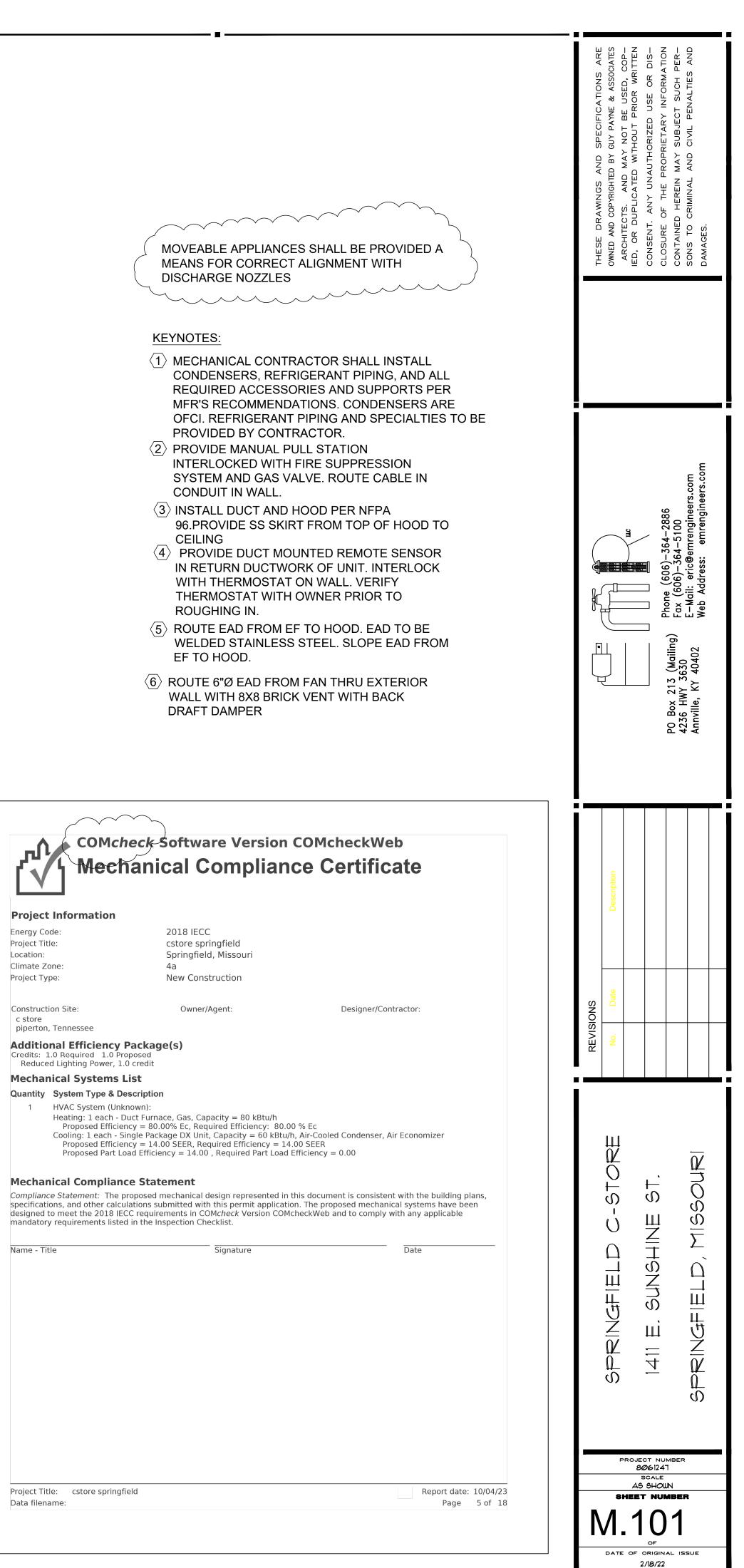
2. RETURN AIR DEVICE TO BE EQUAL TO NAILOR 51EC

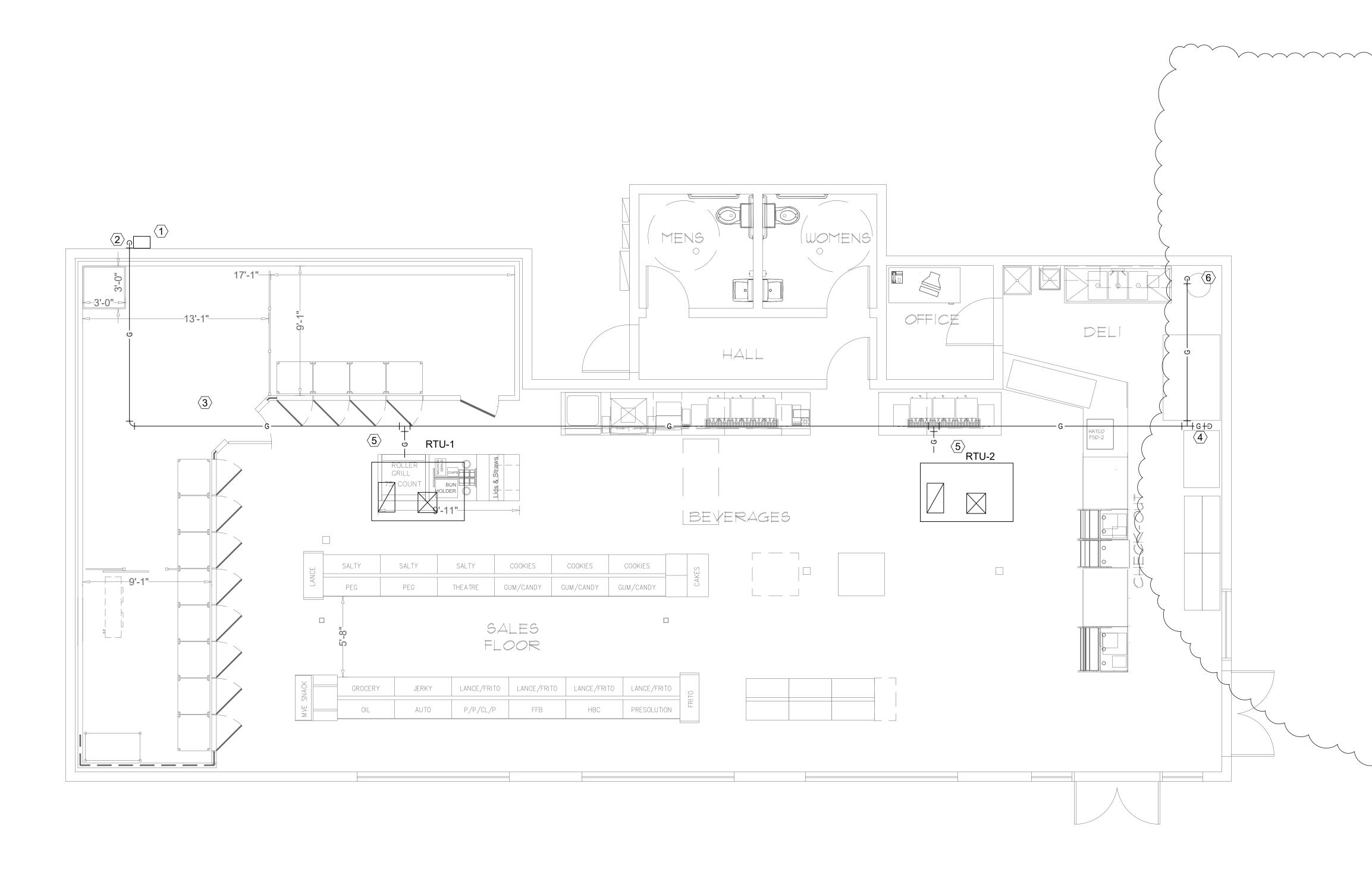
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			4236 HWY 3630 E-Mail: eric@emrengineers.com Annville, KY 40402 E-Mail: eric@emrengineers.com	
REVISIONS	No. Date Description			
	SPRINGFIELD C-STORE	1411 E. SUNSHINE ST.	SPRINGFIELD, MISSOURI	
	зне //.(JECT NUM 8061247 SCALE 46 SHOUN ET NUM DO OF F ORIGINAL 2/18/22	BER 1	



FLOOR PLAN - MECHANICAL

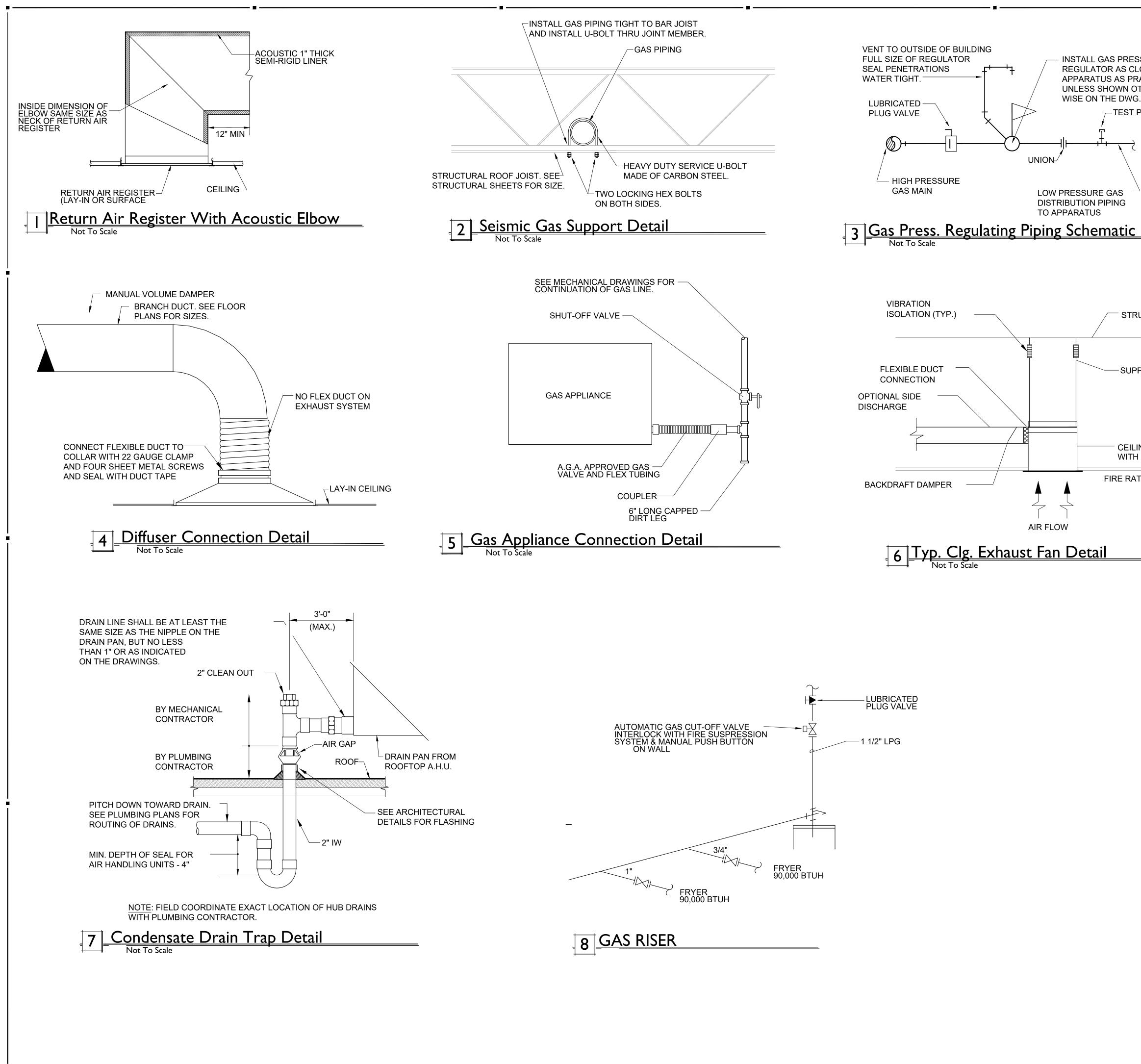
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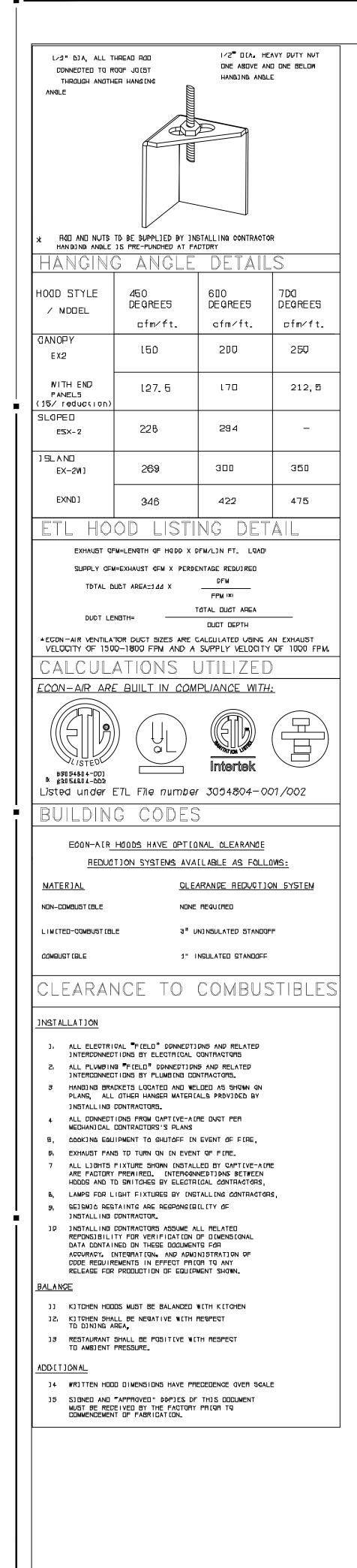


<u>FLOOR PLAN – MECHANICAL PIPING</u>

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Image: Second	PO Box 213 (Mailing) 4236 HWY 3630 Annville, KY 40402 Meb Address: emrengineers.com
 COST. (2) EXISTING GAS SERVICE FOR C STORE TO BE MODIFIED AND SIZED FOR 800 CFH AT 2 PSIG. PROVIDE PRV AND AS REQUIRED. EXTEND 1/22" GAS UP WALL TO ROOF. PAINT ALL EXPOSED PIPING TO MATCH EXTERIOR WALL. (3) ALL PIPING ON ROOF TO BE PRIMED GREY AND LABELED. (4) 1 1/2" GAS DN TO HOOD. PROVIDE EMERGENCY ISOLATION VALVE INTERLOCKED WITH PUSH BUTTON AND HOOD. EXTEND MAIN TO HEADER BEHIND EQUIPMENT AND CONNECT ³/₄" GAS PIPING TO EACH FRYER. PROVIDE PRV 	REVISIONS No. Date Description
 (5) CONNECT 1 ¹/₄ GAS TO RTU . PROVIDE PRV (6) 1 " GAS DN TO WATER HEATER. PROVIDE PRV 	HAN LE NUGELELD C-910 HAN CFIELD C-910 HINE SUNSHINE ST. ABSINCELEUD, MISSOURI ABSINCELEUD, MISSOURI ABSHOWN



AS PRESSURE PR AS CLOSE TO IS AS PRACTICAL HOWN OTHER- HE DWG. —TEST PLUG GAS PING	THESE DRAWINGS AND SPECIFICATIONS ARE OWED AND COPYRIGHED BY GUY PAYIE & ASSOCIATES ARCHTECTS. AND MAY NOT BE USED, COP- IED, OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT. ANY UNAUTHORIZED USE OR DIS- CLOSURE OF THE PROPRIETARY INFORMATION CONTAINED HEREIN MAY SUBJECT SUCH PER- SONS TO CRIMINAL AND CIVIL PENALTIES AND DAMAGES.
CEILING EXHAUST FAN WITH RADIATION DAMPER FIRE RATED CEILING	PO Box 213 (Mailing) Forone (606)–364–2886 Aniville, KY 40402 Web Address: emrengineers.com
	REVISIONS No. Date Description
	SPRINGFIELD C-STORE 1411 E. SUNSHINE ST. SPRINGFIELD, MISSOURI
	PROJECT NUMBER 8061247 SCALE AS SHOWN SHEET NUMBER M.201 OF DATE OF ORIGINAL ISSUE 2/18/22



<u>H00D</u>	<u>INF(</u>	<u>ORMATION</u>	<u> </u>	<u>#4863</u>	326																	
						MAX		APPLIANCI		N TOTAL				<u>AUST P</u> RISER(<u>PLENUM</u>			TOTAL	HOOD	HOOD CO	ONFIG	
HOOD NO	TAG	MODEL N	ANUFACTUF	RER LEN		DOKING TEMP	TYPE	DUTY			WIDTH	LENG	HEIGHT			VEL	SP	SUPPLY CFM	CONSTRUCTION	END TO END	ROW	
1	KH-1	4824 EX-2-PSP-F	ECON-AIR	6'	2"	600 DEG	I	HEAVY	227	1400			4"	12"	1400	1783	-0.457"	1100	430 SS WHERE EXPOSED	ALONE	ALONE	
HOOD) INF(ORMATION																				
	-				FILTER	<u>(S)</u>				L	IGHT(S)							TILITY CAB			FIRE	HOOD
HOOD NO	TAG	ТΥ	/PE	ΟΤΥ		LENGTH	EFFICI	ENCY @ 7 N	AICRONS	QTY -	TYPE	WIRE	LOCA	TION	SIZ	7F		FIRE SYSTE		SWITCHES	SYSTEM	HANGING
				GII								GUARD					TYPE	SIZ	E MODEL #	QUANTITY	PIPING	WEIGHT
1	KH-1	SS BAFFLE W	VITH HANDLE	S 4	16"	16"		30%		2 L55 SI	ERIES E26	5 NO	LEF	-т	12"x48	3"x24"	ANSUL F	3.02) SC-311110FP	1 LIGHT	YES	510
																				1 FAN		LBS
HOOD	OPT.	IONS		·		·	·					·	·					·				,
HOOD	TAG					OPTION																
		FIELD WRAPF	PER 18.00" H	HIGH FF	RONT, LEF	T, RIGHT.																
		BACKSPLASH	80.00" HIGH	X 87.00	" LONG	430 SS V	ERTICAL.															
		RIGHT SIDESF	PLASH 80.00	" HIGH X	(48.00" L	ONG 430	SS VER	TICAL.														
1	KH-1	RIGHT END S	TANDOFF (FI	NISHED)	1" WIDE	48" LO	NG INSL	JLATED.														
		RISER SENSOR	R INSTALL 31	N DBL.																		
		RISER SENSOR	R INSTALL 61	NPLEN.																		
PERF	'ORAT	ED SUPPI	LY PLEN	UM(S	')																	
								RISER(S)														
HOOD NO	TAG	POS LEN	NGTH WIDT	H HEIG	HT TYF	PE WID		G DIA	CFM S	SP												
1	KH-1	Front 8	37" 14"	6"	MU	A 10'	28"		550 0.1	141"												
	111-1				MU	A 10'	28"		550 0.1	141"												

HVAC DISTRIBUTIÓN NÓTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

<u>electrician notes :</u>

All Hood/Fan electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical pa¢kage.

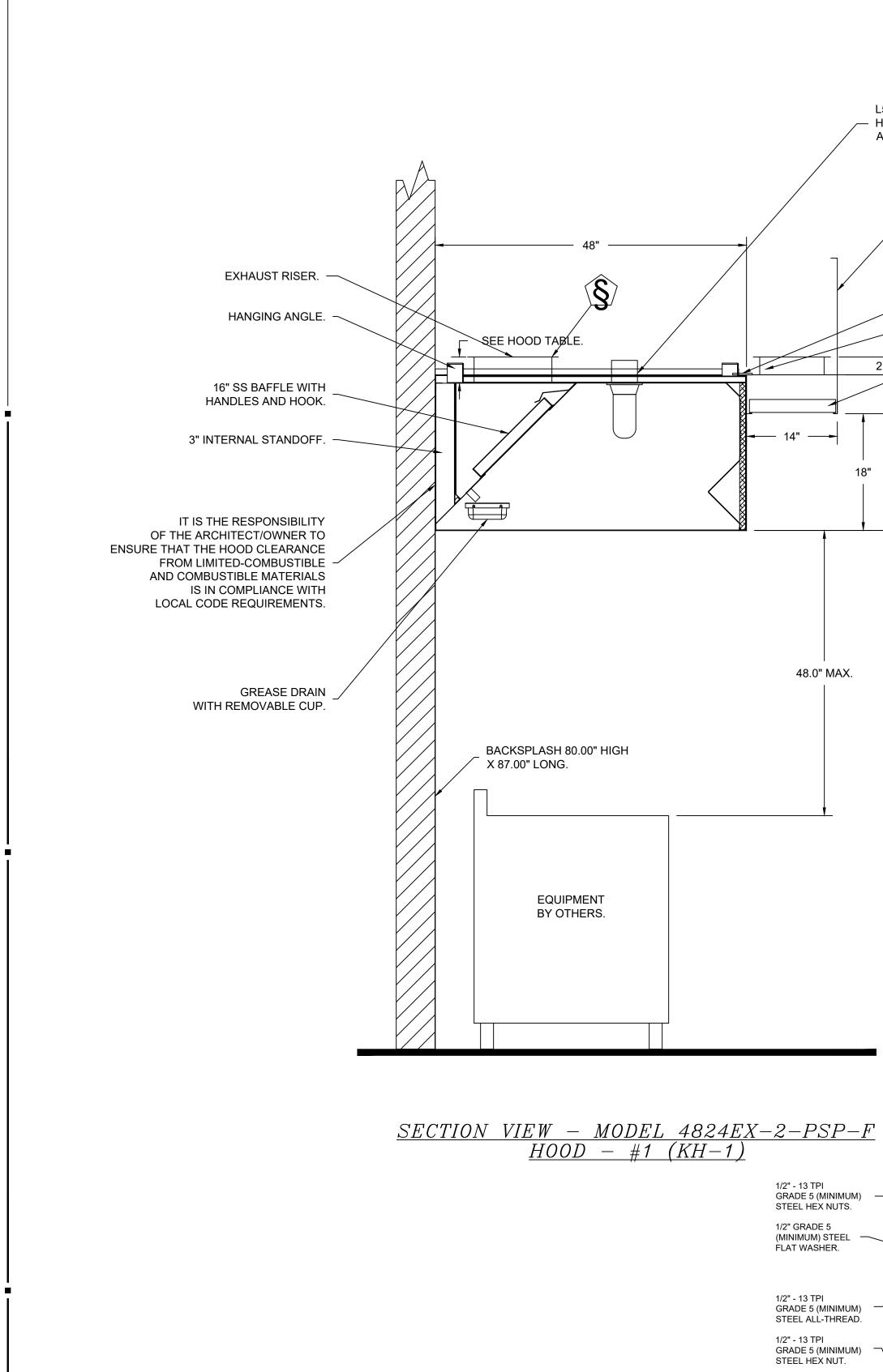
Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician. Light bulbs for kitchen hoods to be provided and installed by electrician.

MAX								UST PL				TOTAL		HOOD C	ONFIG
DOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	WIDTH	LENG	HEIGHT	RISER(S DIA	CFM	VEL	SP	SUPPLY	HOOD CONSTRUCTION	END TO END	ROW
600 DEG	I	HEAVY	227	1400			4"	12"	1400	1783	-0.457"	1100	430 SS WHERE EXPOSED	ALONE	ALONE

ECON-AIR RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATIÓN AND INSPECTIÓN TIMES, AND ENSURE DUCT IS LIQUID TIGHT

ECON-AIR HOODS ARE
BUILT IN COMPLIANCE WITH
BUILT IN ACCORDANCE WITH NFPA No. 96
NFPA #96
NSF
1101
E.T.L. LISTED 3054804-001 TO
UL 710 & ULC710 STANDARDS

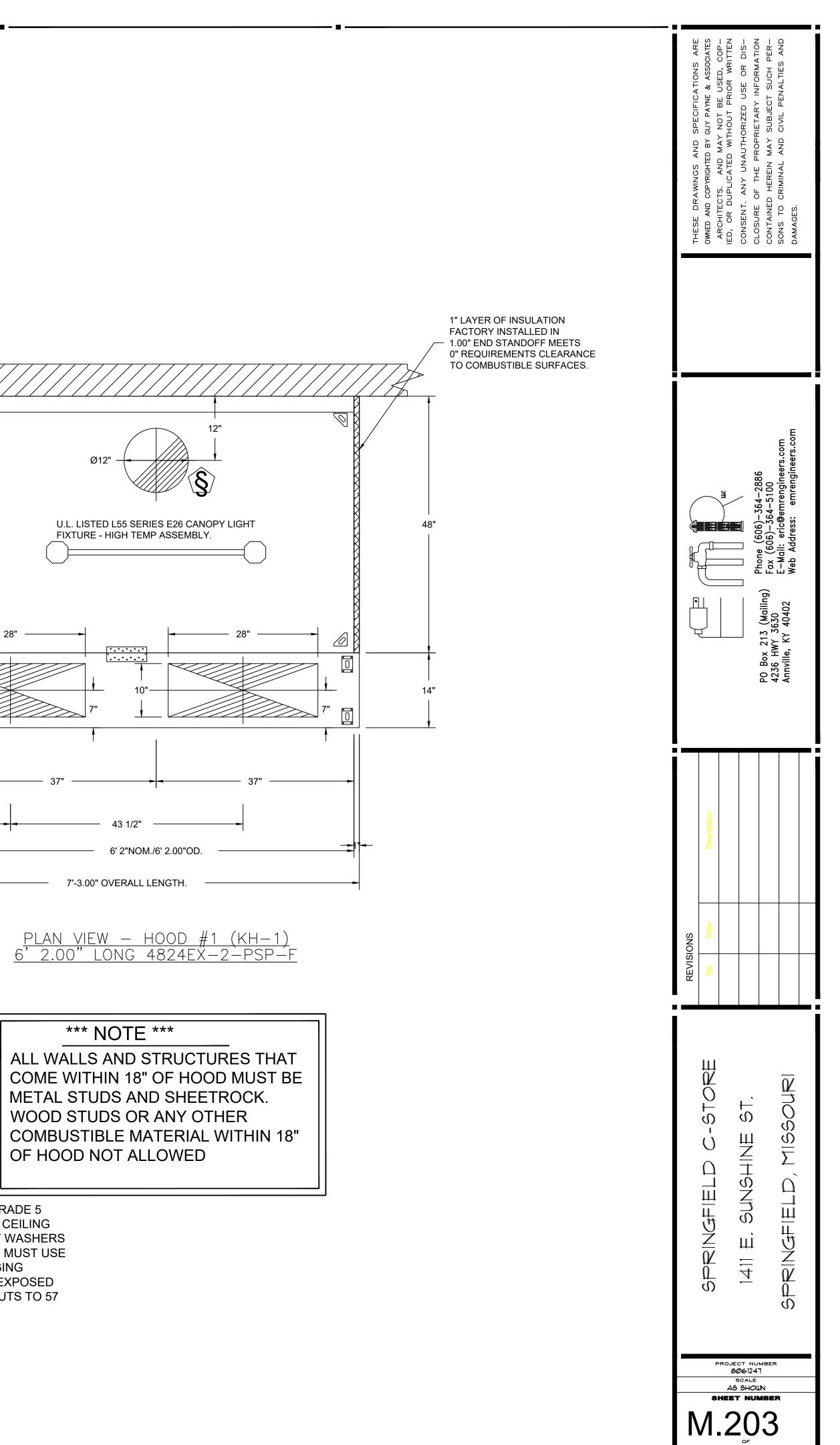
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			٦	PO Box 213 (Mailing) Figure (000)-304-2000 4236 HWY 3630 Eax (606)-364-5100	Annville, KY 40402 E-Mail: eric@emrengineers.com Web Address: emrengineers.com	
REVISIONS	No. Date Description					
	SPRINGFIELD C-STORE		1411 E. SUNSHINE ST.		SPRINGFIELD, MISSOURI	
			06124 CALE SHOU	1 MBEF	R SUE	



1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHER. L55 SERIES E26 CANOPY LIGHT FIXTURE -HIGH TEMP ASSEMBLY, INCLUDES CLEAR THERMAL AND SHOCK RESISTANT GLOBE (L55 FIXTURE).

FIELD WRAPPER 18.00" HIGH (SEE HOOD OPTIONS TABLE).

- ATTACHING PLATES. SUPPLY RISER WITH VOLUME DAMPER. 23.5% OPEN STAINLESS STEEL PERFORATED PANEL. 2 3/4" 6" FIRE SUPPRESSION 24" NOM. SYSTEM \bigcirc \bigcirc ELECTRICAL CONTROL FIXTURE - HIGH TEMP ASSEMBLY. PACKAGE - FACTORY INSTALLED UTILITY CABINET. •••••• <u>////////</u> 43 1/2" 🗕 12" · Ο Ο 7'-3.00" OVERALL LENGTH. \square lights FANS: Ο Ο HOOD CORNER <u>HANGING ANGLE</u> (HARDWARE BY INSTALLER) *** NOTE *** <u>TYPICAL INTERFACE CONTROL</u> Ē METAL STUDS AND SHEETROCK. WOOD STUDS OR ANY OTHER OF HOOD NOT ALLOWED ASSEMBLY INSTRUCTIONS HOOD CORNER HANGING ANGLE (WEIGHT BEARING HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 ANCHOR POINT FOR HOOD). (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS 1/2" GRADE 5 AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE (MINIMUM) STEEL DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING FLAT WASHER. ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED 1/2" - 13 TPI THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 GRADE 5 (MINIMUM) FT-LBS. STEEL HEX NUTS.



DATE OF ORIGINAL ISSUE 2/18/22

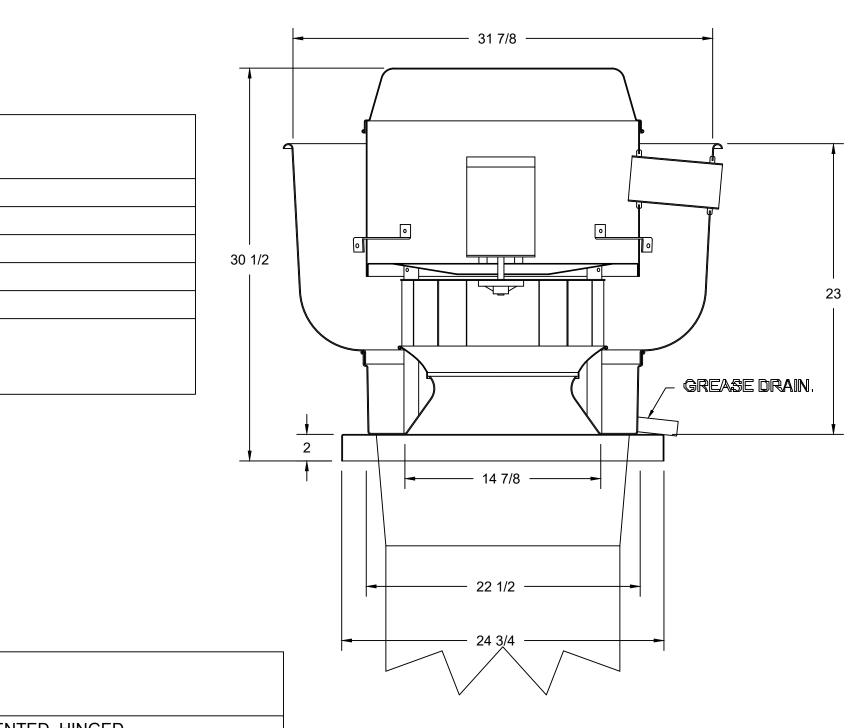
FAN UNIT NO TAG QTY DESCRIPTION 1 GREASE BOX.	FAN UNIT NO	TAG	QTY	<u>INFORMATION – JOB#48</u> FAN UNIT MODEL #	MANUFACTURE	ER CFM	ESP	P RPM	MOTO ENCI		BHP	PHASE	VOLT	FLA	DISCHA VELOC			VEIGHT (LBS)	SONES	
FAN UNT TAG QTY FAN UNIT MODEL # BLOWER HOUSING MIN CFM DESIGN CFM ESP RPM MOTOR ENCL HP BHP PHASE VOLT FLA MCA MOCP WEIGHT (LBS) 2 MAU-1 1 EA.A1-15D-MPU 15MF-1-MOD A1 1100 1100 0.500 1335 ODP,PREMIUM 1.000 0.3480 3 208 3.1 3.9A 15A 936 ***********************************	1	KEF-1	1	EADU85H	ECON-AIR	1400	1.000	0 1250	ODP	P 0.75	0.3510	3	208	2.6	443 F	PM		94	10.7	
NO C C C C C ENCL C <thc< th=""><th>FAN</th><th></th><th></th><th></th><th></th><th>HOUSING</th><th></th><th></th><th>ESP</th><th>RPM</th><th></th><th>HP</th><th>BHP</th><th>PHASE</th><th>VOLT</th><th>FLA</th><th>МСА</th><th>моср</th><th></th><th>sc</th></thc<>	FAN					HOUSING			ESP	RPM		HP	BHP	PHASE	VOLT	FLA	МСА	моср		sc
FAN OPTIONS UNIT TAG QTY DESCRIPTION NO 1 GREASE BOX.	NO		1																	
FAN UNIT NO TAG QTY DESCRIPTION 1 GREASE BOX.														0	200					
UNIT TAG QTY DESCRIPTION NO 1 GREASE BOX.																		_		
1 GREASE BOX.			<u>DNS</u>																	
	FAN UNIT	OPTIC			DES	CRIPTION														
	FAN UNIT	OPTIC			DES	SCRIPTION														

1 | CONDENSER SUPPORT FOR SIZE 1 MOD PACKAGE UNIT. GRAVITY BACKDRAFT DAMPER FOR SIZE 1 HOUSING. 1 2 MAU-1 FAN ACCESSORIES

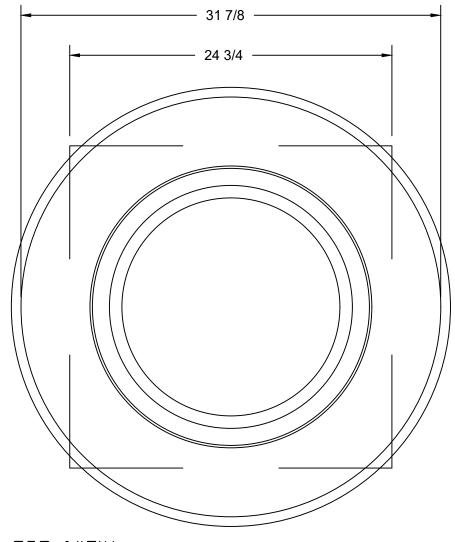
FAN UNIT	TAG		EXHAUST		SUPPLY				
NO	TAG	GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	KEF-1	YES							
2	MAU-1					YES			

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H ALONG LENGTH, RIGHT VEN



ENTED HINGED.



<u>top view</u>

<u>FEATURES:</u>

- Direct drive construction (no belts/fulleys). - ROOF MOUNTED FANS.
- · Restaurant Model.
- UL705 AND UL762 AND ULC-5645
- Variable Speed Control.
- INTERNAL WIRING.
- Thermal overload protection (single phase).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- Nema 3r Safety Disconnect Switch.

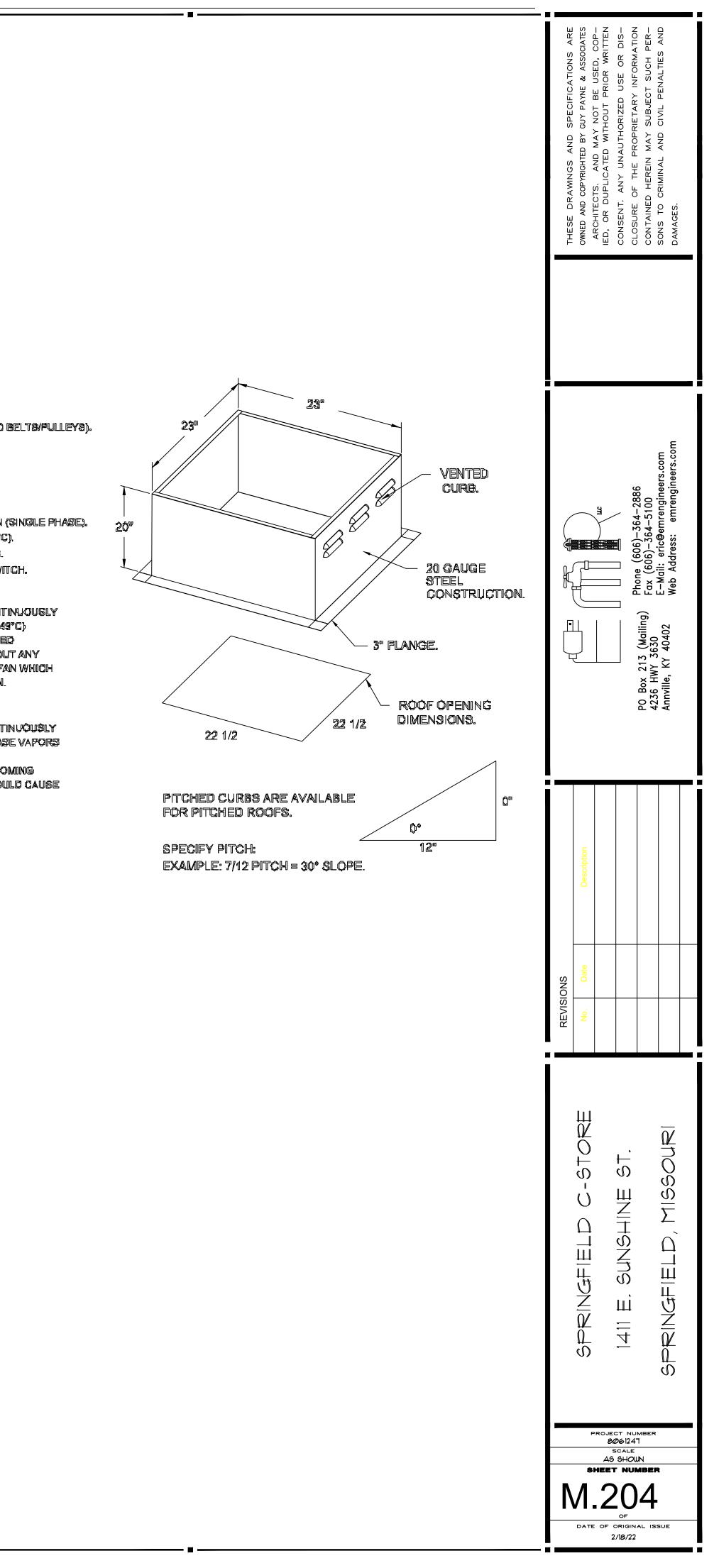
<u>Normal temperature test</u> EXHAUST FAN MUST OPERATE CONTINUOUSLY while Exhausting Air at 200°F (149°C) until all fan farts have reached THERMAL EQUILIBRIUM, AND WITHOUT ANY Deteriorating effects to the Fan Which WOULD CAUSE UNSAFE OPERATION.

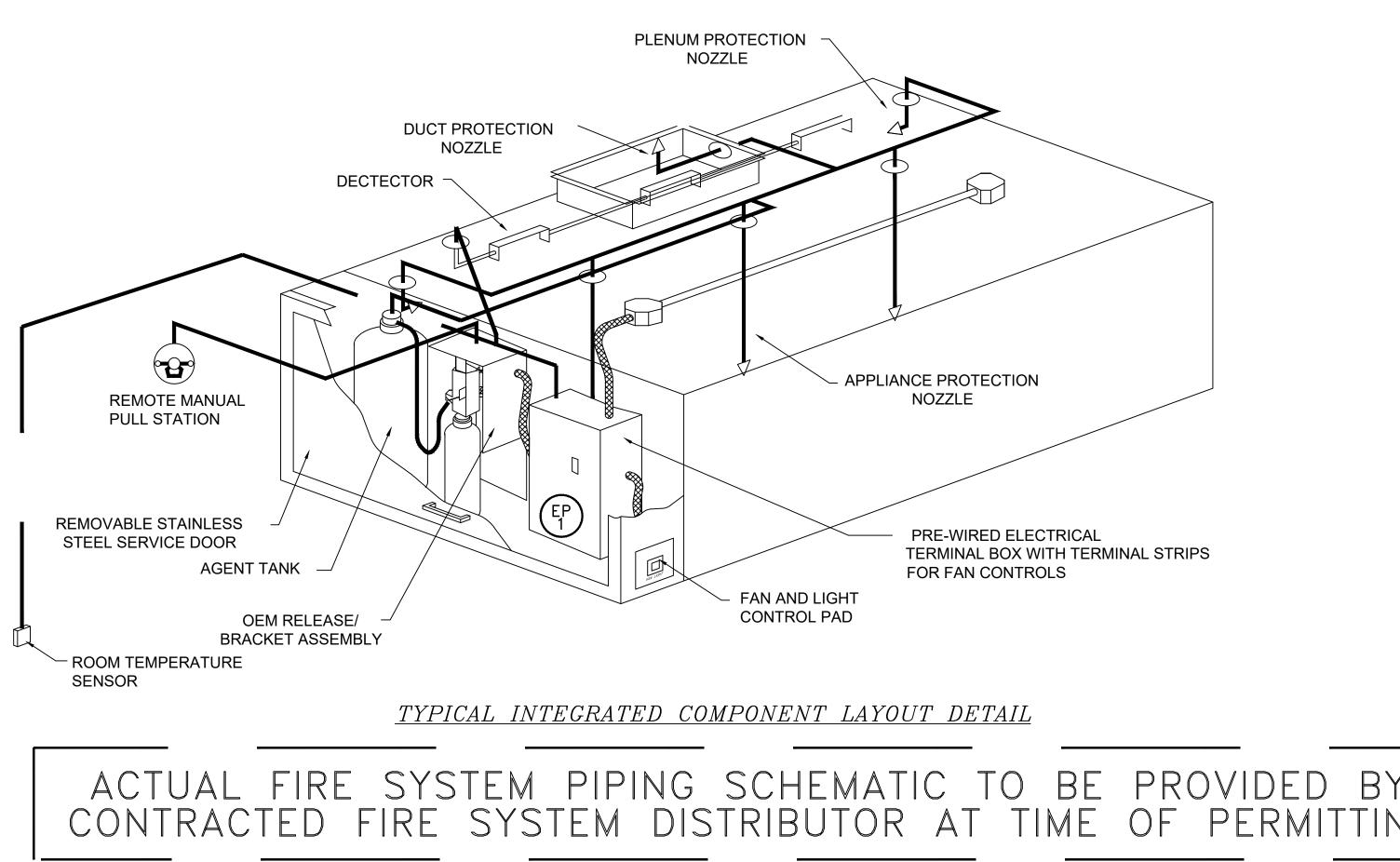
ABNORMAL FLARE-UP TEST

EXHAVŞT FAN MUŞT ÖPERATE ÖÖNTIN VÖUŞLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

<u>Optión\$</u>

GREASE BOX. 2 YEAR PARTS WARRANTY.





SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.

EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGIN OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

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LEGEND

SANITARY WASTE (SW) SANITARY VENT (SV) ------ COLD WATER (CW) AFF ABOVE FINISHED FLOOR CO CLEANOUT ELEV ELEVATION FCO FLOOR CLEANOUT TYP TYPICAL

PIPE DOWN PIPE UP CAP BALANCING VALVE BALL VALVE CHECK VALVE

TAG	FIXTURE	FLUSH/FAUCET/SHOWER HEAD	REMARKS	TRAP	MI	N PIPE C	ONNEC	ΓΙΟΝ
TAG	FIXTURE	FLUSH/FAUCET/SHOWER HEAD	REWARKS	IKAP	SW	VENT	CW	HW
WCA-1	ADA WATER CLOSET, REGULAR WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, 1 1/2" TOP SPUD, SIPHON JET. EQUAL TO AMERICAN STANDARD	PRESSURE ASSIST TANK TYPE	SEAT TO BE ELONGATED WITH OPEN FRONT. SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES. WHITE. EQUAL TO BEMIS 1955SSC.	INT	4"	2"	1"	NA
WC-1	WATER CLOSET, REGULAR WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, 1 1/2" TOP SPUD, SIPHON JET. EQUAL TO AMERICAN STANDARD	PRESSURE ASSIST TANK TYPE	SEAT TO BE ELONGATED WITH OPEN FRONT. SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES. WHITE. EQUAL TO BEMIS 1955SSC.	INT	4"	2"	1"	N
L-1	ADA WHITE VITREOUS CHINA, WALL MOUNT WITH OVERFLOW. KOHLER	L MOUNT BRUSHED NICKEL FINISH, SINGLE HOLE, SINGLE LEVER FAUCET 0.5 GPM- GROHE "CONCETTO" 34702EN1. PROVIDE TEMPERATURE LIMITING DEVICE PER ASSE 1070 BRUSHED NICKEL FINISH, SINGLE HOLE, I 1/4" GRID STRAINER, ZURN Z8743-PC, PTRAP TO BE 17 GA 1 1/2" BRASS. ZURN ZR361-R8. PROVIDE STOPS. ZURN Z8800. PROVIDE BELOW COUNTER INSULATION EQUAL TO TRU BRO ON ALLEXPOSED TRIM. PROVIDE CONCEALED FLOOR MOUNT CARRIER AS REQUIRED		1 1/2"	1 1/2"	1 1/2"	1/2"	1/2
MB-1	12" DEEP, 24"X24". STAINLESS STEEL CAPS ON ALL SIDES AND TILING AND FLANGE. FLORESTONE MODEL 87. COORDINATE	INTEGRAL VACUUM BREAKER. WALL	PROVIDE 3" CAST BRASS CHROME PLATED STRAINER. STAINLESS TEEL CAP, HOSE AND WALL HOOK, SPLASH CATCHER PANLES AND MOP HANGER BRACKET. PROVIDE 3" P TRAP	3"	3"	3"	3/4"	3/4
HS-1	HANDSINK SELECTED BY OWNER	HANDSINK SELECTED BY OWNER	HANDSINK SELECTED BY OWNER	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2
S-1	3 COMPARTMENT SINK SELECTED BY OWNER	3 COMPARTMENT SINK SELECTED BY OWNER	3 COMPARTMENT SINK SELECTED BY OWNER				3/4"	3/4
FCO	ADJ HOUSING. FLANGED FERRULE WITH TAPERED BRASS PLUG. ROUND SECURED, SCORIATED NICKEL BRONZE TOP. EQUAL TO ZURN Z1400 CAST IRON CLEANOUT WITH T TAPERED			PLANS	PLANS			
wco	BRASS PLUG. ROUND STAINLESS STEEL COVER PLATE WITH SCREW EQUAL TO ZURN Z1441			PLANS	PLANS			
GCO	GRADE CLEANOUT: HEAVY DUTY CAST IRON CLEANOUTWITH THREADED ADJ HOUSING FLANGED FERRULE WITH TAPERED BRASS PLUG. HEAVY DUTY SECURED SCORIATED CAST IRON TOP - ZURN Z1400			PLANS	PLANS			
HB-1	WALL HYDRANT NON FREEZE. KEY OPERATED WITH CHROME PLATED FACE. INTEGRAL VACUUM BREAKER, ZURN Z1300		3/4" HOSE CONNECTION, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, GALVANIZED WALL CASING AND HYDRANT KEY. MOUNT 24" AFF TO BOTTOM OF HYDRANT	-	-	-	3/4"	-
FS-1	CAST IRON FLOOR SINK 12"X12"X8" WITH DOME STRAINER AND SEDIMENT BUCKET	FLOOR SINK TO BE INSTALLED WITH RIM 1/2" TO 1" AFF		PLANS	PLANS			
FD-1	CAST IRON SQUARE FLOOR DRAIN WITH BOTTOM OUTLET. COMBO INVERTIBLE MEMBRANE CLAMP, ADJ COLLAR, SEEPAGE OPENINGS, POLISHED NICKEL BRONZE LIGHT DUTY LEVELING STRAINER WITH VANDAL PROOF SREWS. EQUAL TO ZURN Z415BZ			PLANS	3"			
HD-1	JR SMITH. DEEP SEAL P-TRAP WITH 1/2" TRAP PRIMER CONNECTION, MODEL 7222- P050. 3" FIXED AIR GAP WITH 1 1/4" SET SCREW INLET AND 2" NO HUB OUTLET, MODEL 3955S			PLANS	3"			

	RECIRCULATION PUMP							
MARK	SERVICE	GPM	HEAD		НР	VOLT PHA	ТҮРЕ	REMARKS
CP-1	XP-1 WH-1 2 10 1/10 120/1 INLINE 1							1
1. EQUAL	1. EQUAL TO B&G. PROVIDE DISCONNECT							

MARK TYPE TANK WH-1 GAS 80 GAL 80000 75 80 1. EQUAL TO STATE WITH THERMAL EXPANSION TANK, PAN AND DISCONNECT. \sim **PIPE SCHEDULE** ABOVE GRADE | BELOW GRADE | JOINTS INSULATION SYSTEM SANITARY SCH 40 P VENT SCH 40 P CW **TYPE L COP TYPE L COP** НW SCH 40 PV COPPER CONDENSATE PLENUN RETUR

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W	ATER HEAT	ER		
	BTUH	GPH	DELTA T	REMARKS

RADE	BELOW GRADE	JOINTS	INSULATION
PVC	SCH 40 PVC	SOLVENT WELD	
PVC	SCH 40 PVC	SOLVENT WELD	
OPPER	TYPE K COPPER	LEAD FREE NICKEL BEARING SOLDER	1/2" FIBERGLASS WITH ASJ
OPPER	TYPE K COPPER	LEAD FREE NICKEL BEARING SOLDER	1/2" FIBERGLASS WITH ASJ
PVC, R IN IM RN	SCH 40 PVC	PVC SOLVENT WELD COPPER SOLDER	1/2" FIBERGLASS WITH ASJ

1. CONTRACTOR TO FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING WORK. 2. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES INVOLVED TO AVOID ANY PIPE ROUTING PROBLEMS. IN THE EVENT CONFLICTS ARE ENCOUNTERED WHICH CANNOT BE RESOLVED BY THE TRADES INVOLVED, THE ARCHITECT SHALL BE CONSULTED AND HIS DECISION SHALL GOVERN. 3. IF ANY DISRUPTION OF SERVICES IS EXPECTED, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS AHEAD OF DISRUPTION.

4. CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. CONTRACTOR SHALL INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS FURNISHING CUTOFF VALVES, P-TRAPS, PRESSURE REDUCING VALVES, AND PIPING AS REQUIRED. 5. ALL SANITARY VENT TERMINATIONS SHALL BE A MINIMUM OF 25'-0" AWAY FROM ALL FRESH AIR INTAKES FOR MECHANICAL UNITS. 6. CONTRACTOR SHALL PROVIDE INCREASERS ON SANITARY VENT PIPING PENETRATIONS THROUGH THE ROOF WHERE REQUIRED BY CODE. 7. ALL FIXTURES, EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS. 8. PENETRATIONS THROUGH NEW WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS DIRECTED BY THE SPECIFICATIONS. SEE

ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.

9. ALL NEW PIPE PENETRATIONS OF FIRE RATED WALLS, AS SHOWN BY THE LIFE SAFETY PLANS, SHALL HAVE A UL LISTED F RATING EQUAL TO THE WALL FIRE RATING. REFER TO THE WALL PENETRATION DETAILS FOR FURTHER INFORMATION. 10. CONTRACTOR TO SEISMICALLY BRACE ALL PIPE AS REQUIRED BY LOCAL CODE REQUIREMENTS. 11. PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL EQUIPMENT. 12. EXACT LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR. ALL REQUIRED CONDENSATE PIPING SHALL BE COORDINATED WITH THIS EQUIPMENT.

13. SANITARY SEWER PIPING SHALL BE SLOPED AS FOLLOWS: 4" SANITARY WASTE PIPING AND LARGER SHALL BE ROUTED AT 1/8" PER FOOT MINIMUM 3" SANITARY WASTE PIPING AND SMALLER SHALL BE ROUTED AT 1/4" PER FOOT MINIMUM. 14. CONTRACTOR SHALL ESTABLISH A SEQUENCE OF INSTALLATION WITH OTHER TRADES WORKING ON THE PROJECT. CONTRACTOR SHALL THOROUGHLY COORDINATE ALL SYSTEMS WITH OTHER TRADES. 15. CATHODIC PROTECTION, IF REQUIRED, IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL PROTECT ALL UNDERGROUND METALLIC PIPING FROM CORROSION. REFER TO SOILS REPORT. UNDERGROUND PIPING MAY ALSO BE PROTECTED WITH POLYETHYLENE ENCASEMENT CONFORMING TO ANSI/AWWA REQUIREMENTS. ALL PIPING SHALL BE WRAPPED COMPLETELY WITH ENCASEMENT TO A POINT AT LEAST 12 A.F.G OR FIN FLOOR. ENCASEMENT SHALL BE FREE OF TEARS WITH ALL JOINTS COMPLETELY SEALED. NO PORTION OF THE PIPE SHALL BE LEFT EXPOSED TO CORROSIVE SOIL.

16. PROVIDE ALL REQUIRED PRV'S, VALVES, AND GUAGES AS REQUIRED BY LOCAL CODES AND PER MANUFACTURER'S REC. 17. DRAINAGE AND WATER PIPING SHALL BE TESTED PER CODE 18. USE DIELECTRIC FITTINGS AND UNIONS ON UNSIMILAR MATERIALS. 19. BALL VALVES SHALL BE BE RATED MIN 125 PSIG AND BE FULL PORT 2 PIECE WITH SS BALL.

SPECIFICATIONS - PLUMBING

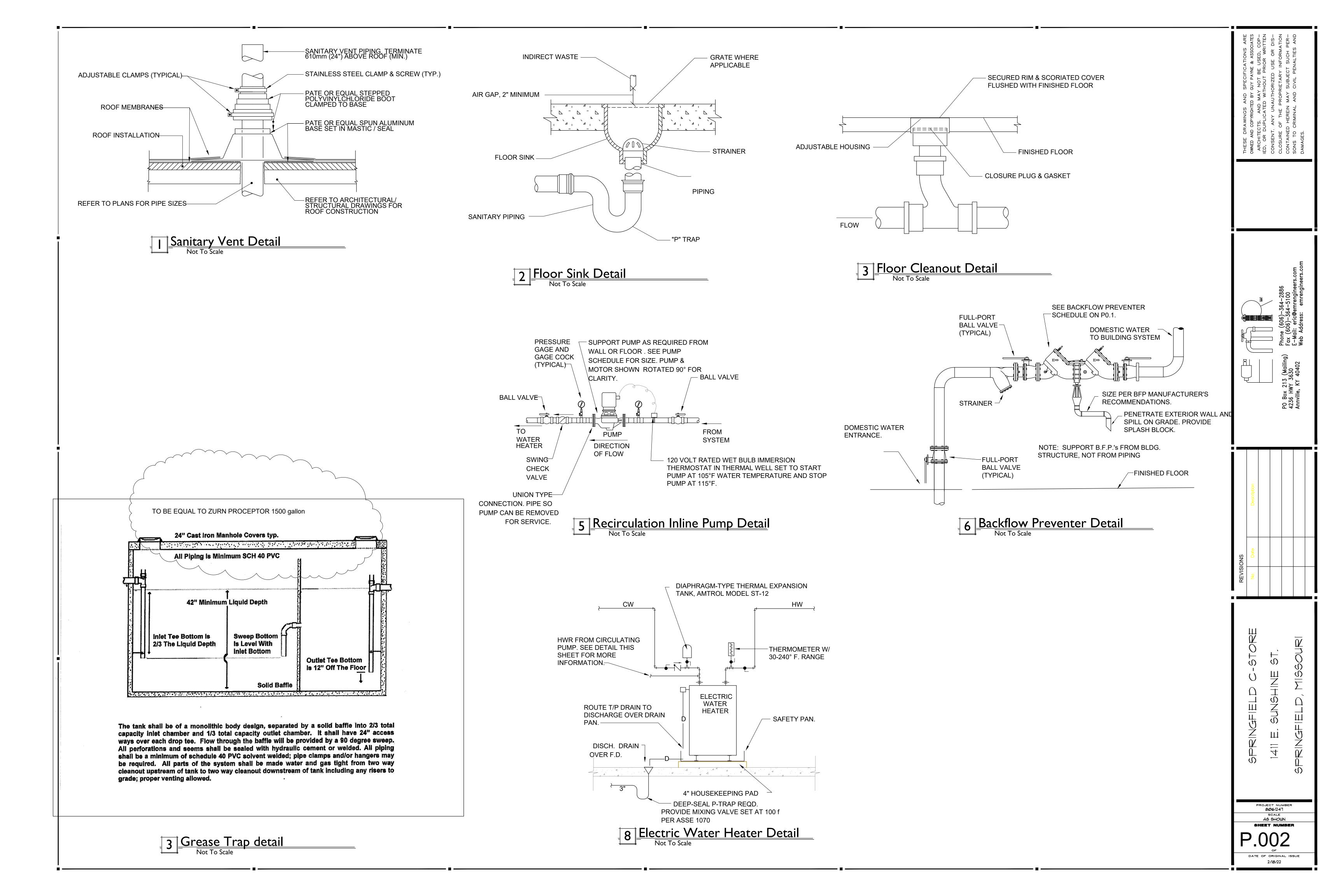
A. MATERIALS AND WORKMANSHIP

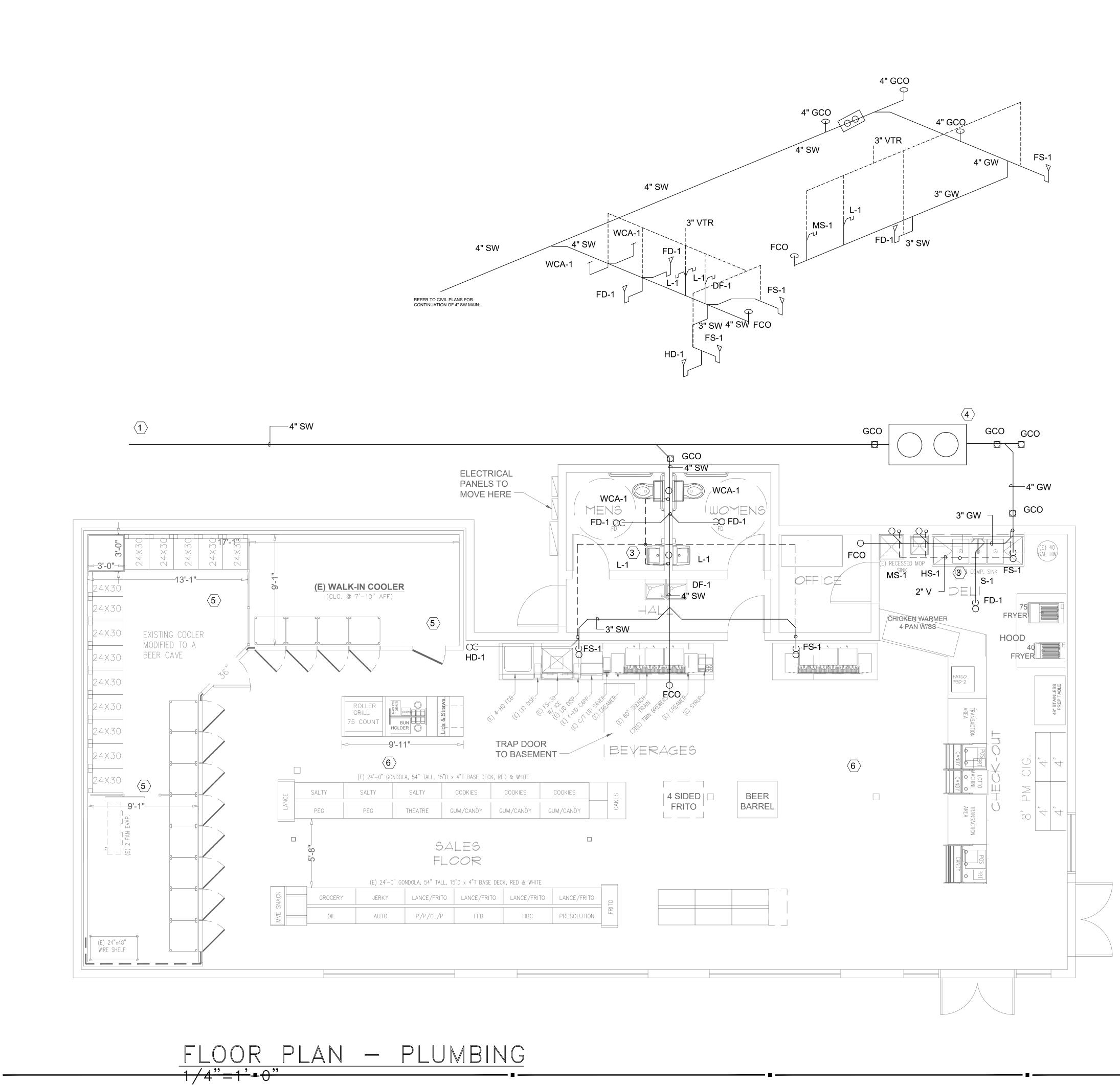
- 1. THE PLUMBING PLANS ARE DIAGRAMMATIC AND NOT TO BE SCALED. 2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS, AND SHALL FIT THE WORK ACCURATELY TO THE BUILDING.
- B. PERMITS AND FEES 1. THE CONTRACTOR SHALL MAKE APPLICATION, AND PAY ALL RELATED FEES AND COSTS FOR PERMITS, INSPECTIONS, AND TESTS AS REQUIRED BY THE LOCAL AUTHORITY. INCLUDE COSTS IN CONTRACT PRICE.
- D. DRAINAGE SYSTEMS
- 1. FURNISH AND INSTALL ALL SOIL, WASTE, VENT, AND DRAIN PIPING AS INDICATED. 2. ALL ABOVE GRADE STORM DRAIN, SOIL, WASTE, VENT, AND DRAIN PIPING SHALL BE SERVICE WEIGHT NO-HUB CAST IRON. FIXTURE PIPING EXPOSED IN FINISHED AREAS SHALL BE CHROME PLATED BRASS. FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING
- 3. INDIRECT WASTE AND CONDENSATE DRAIN PIPING SHALL BE DWV COPPER. ALL FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
- 4. SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE SUBJECTED TO A WATER TEST OF NOT LESS THAN TEN FEET OF HYDROSTATIC HEAD FOR A PERIOD OF NOT LESS THAN THIRTY MINUTES PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.
- E. WATER PIPING (DOMESTIC)
- 1. HOT, HOT RETURN, AND COLD WATER PIPING SHALL BE TYPE 'L' COPPER ABOVE GRADE. 2. FITTINGS SHALL BE WROT COPPER.
- 3. TEST WATER PIPING AT 125 PSI FOR A PERIOD OF 24 HOURS PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.
- F. PIPE JOINTS
- 1. JOINTS IN CAST-IRON SOIL, WASTE AND VENT PIPING ABOVE GRADE SHALL BE MADE WITH NO-HUB CLAMPS.
- SOLDER WITH A NON-CORROSIVE, PETROLEUM-BASED FLUX AS RECOMMENDED BY THE PIPE MANUFACTURER.
- PRESSURE OF 165 PSI. 4. JOINTS BETWEEN PIPING OF DISSIMILAR MATERIALS SHALL BE MADE USING DIELECTRIC UNIONS.
- G. BALL VALVES
- 1. VALVES SHALL BE BRONZE OR BRASS THROUGHOUT. 2. VALVES SHALL BE RATED FOR 125 PSI, AND BE MADE BY NIBCO OR EQUAL.
- H. INSULATION 1. COLD WATER AND CONDENSATE DRAIN PIPING ABOVE GRADE SHALL BE COVERED WITH 1/2" FIBERGLASS
- INSULATION WITH ALL-SERVICE JACKET. 2. HOT WATER SUPPLY AND RETURN PIPING ABOVE GRADE SHALL BE COVERED WITH 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.
- I. HANGERS
- 1. HANGERS FOR COPPER PIPING SHALL BE CLEVIS OR SPLIT-RING AS MANUFACTURED BY GRINNELL OR EQUAL,
- AND SHALL BE COPPER-CLAD OR PVC-COATED TO PREVENT GALVANIC CORROSION. 2. HANGERS FOR SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE CLEVIS HANGERS AS MANUFACTURED BY
- GRINNELL OR EQUAL.
- J. CLEAN-UP
- 1. AFTER ALL FIXTURES HAVE BEEN SET, INSPECTED, AND TESTED THEY SHALL BE THOROUGHLY CLEANED BY THE PLUMBING CONTRACTOR PRIOR TO LEAVING THE SITE.

GENERAL NOTES:

2. JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE SOLDERED JOINTS MADE WITH GRADE 95 TA LEAD-FREE 3. JOINTS IN STEEL PIPING SHALL BE THREADED AND MADE WITH STANDARD FITTINGS WITH A WORKING

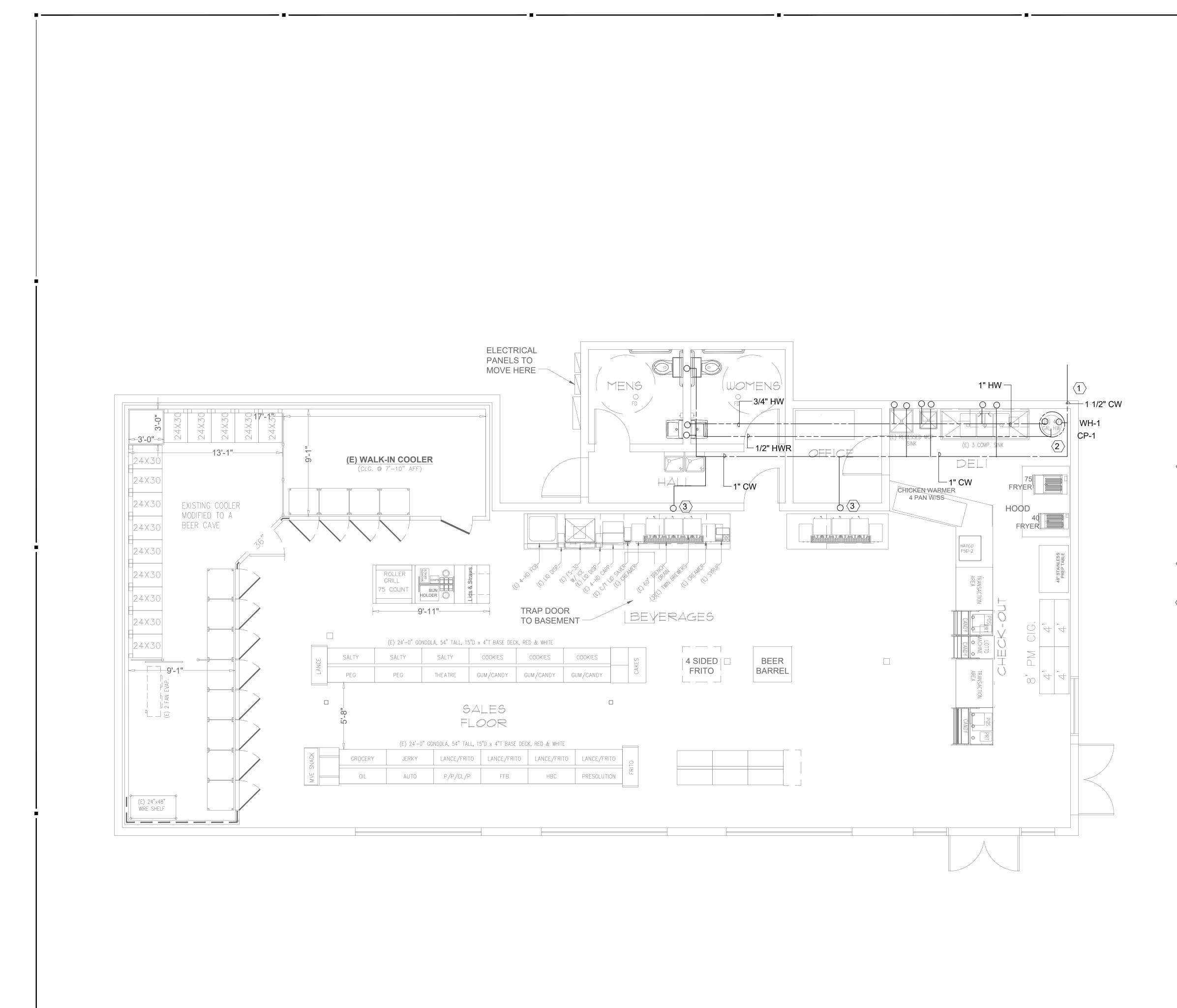
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Л.						PO Box 213 (Mailing) Fax (606)-364-5100		Web Address: emrengineers.com	
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	SPRINGFIELD C. 1411 E. SUNGHINE SPRINGFIELD, MIS
R TO CIVIL PLANS FOR INUATION OF 4" SW MAIN. R P DIRECT WASTE TO GREASE TRAP. ER SHALL APPLY TO LOCAL CODE FOG GRAM FOR REQUIRED SIZE OF GREASE COORDINATE EXACT LOCATION OF SE TRAP WITH FUELING EQUIPMENT SIT EPLAN. EXTEND PIPING AS JIRED. TE CONDENSATE FROM COOLER FREEZER COILS TO HUB DRAIN AIR GAP. PROVIDE FREEZE ECTION ON CONDENSATE LINE AS JIRED. ND 1 1/2" CONDENSATE FROM EACH TO MOP SINK	C-STORE C-STORE INE ST, MISSOURI
S: TOR TO FIELD VERIFY FD, FS, AND ECTIONS WITH KITCHEN IT AND PROVIDE ALL REQUIRED D SIZES AS REQUIRED.	PO Box 213 (Mailing) PO Box 213 (Mailing) Por 805 – 364 – 2886 Por 805 – 364 – 5100 Fax (606) – 564 – 500 Fax (606) – 560 – 500
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- GENERAL NOTES 1. CONTRACT HD CONNE PIPING AND GCO
- $\langle 1 \rangle$ REFEF CONTI
- $\langle 2 \rangle$ 2" VTR
- $\langle \mathbf{3} \rangle$ 3" VTF
- 4" IND OWNE $\langle 4 \rangle$ PROG TRAP. GREAS AND S REQU
- ROUT AND F $\langle 5 \rangle$ WITH A PROT REQU EXTEN RTU T
- $\langle 6 \rangle$



FLOOR PLAN - PLUMBING 1/4"=1'=0"

 $\langle 1 \rangle$ ROUTE 1 1/2" CW MAIN THRU FLOOR AND BELOW GRADE. EXTEND MAIN TO EXISTING SITE MAIN AS REQUIRED. COORDINATE WITH LOCAL UTILTITY & PROVIDE TAP AND METER AS REQUIRED CONTRACTOR TO PAY FOR ALL INCURRED COST. PROVIDE BFP AS REQUIRED. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGHIN $\langle 2 \rangle$ CONNECT 1" CW TO WH. PROVIDE HWR SYSTEM WITH RECIRC PUMP. INSTALL WH IN PAN WITH EMERGENCY DRAIN PER CODE. EXTEND ¹/₂" CW DN IN WALL FOR KITCHEN EQUIPMENT. COORDINATE EXACT LOCATION WITH KITCHEN $\langle 3 \rangle$ PLANS GENERAL NOTES: 1. CONTRACTOR TO FIELD VERIFY CW & HW CONNECTIONS WITH KITCHEN EQUIPMENT AND PROVIDE ALL REQUIRED PIPING AND SIZES AS REQUIRED 2. CONTRACTOR TO PROVIDE POINT OF USE INLINE BACKFLOW PREVENTERS FOR ALL PIECES OF EQUIPMENT REQUIRED BY LOCAL CODE. TEA COFFEE MAKER DISPENSERS, RAPID RINSER, ICE MAKERS, WATER DISPENSER, ETC. TO HAVE BACKFLOW PROTECTION PER CODE. COORDINATE WITH EQUIPMENT VENDOR AND PROVIDE AS REQUIRED.

