GENERAL NOTES:

CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS; IF THERE ARE ANY CHANGES, REVISIONS, OR DISCREPANCIES PLEASE CALL:

ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL GOVERNING CODES.

- 1. EXCEPT IN DEMOLITION PLANS, AND WHERE OTHERWISE NOTED, ALL NEW CONSTRUCTION IS SHOWN WITH SOLID DARK LINES, AND EXISTING CONSTRUCTION TO REMAIN IS SHOWN WITH "SCREENED" LINES.
- 2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS SHOWN RELATING TO EXISTING CONSTRUCTION ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL ACTUAL DIMENSIONS AND CONTACT DESIGNER TO ADDRESS ANY DISCREPANCIES.
- 3. ALL DIMENSIONS ARE FACE OF FINISH, FACE OF CONCRETE, TO CENTER LINES OF COLUMNS AND OTHER GRID PONTS AND TO CENTER LINES OF DOORS AND OTHER SCHEDULED OPENINGS, UNO
- 4. THE CONTRACTOR AND SUB-CONTRACTORS SHALL COORDINATE THE LAYOUT AND EXACT LOCATIONS OF ALL PARTITIONS, DOORS, ELECTRICAL/TELEPHONE OUTLETS, LIGHT SWITCHES AND THERMOSTATS IN THE FIELD PRIOR TO PROCEEDING. THEY SHALL ALSO VERIFY THAT NO CONFLICT EXISTS IN THE LOCATION OF ANY MECHANICAL, HVAC, TELEPHONE, ELECTRICAL, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING DUCTWORK, CONDUIT, CABLES, ETC.), AND THAT ALL REQUIRED CLE
- 5. CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE PROVIDED. CONTRACTOR TO VERIFY THAT ALL EXISTING RATED WALLS, INCLUDING ALL PENETRATIONS, WERE CONSTRUCTED TO MEET CURRENT REQUIREMENTS FOR A RATED WALL ASSEMBLY. CONTRACTOR TO UPGRADE ANY WALLS AND PENETRATIONS THAT DO NOT COMPLY. REFER TO DRAWINGS TO IDENTIFY ACTUAL REQUIRED RATING OF WALLS.
- 6. ALL NEW PENETRATIONS IN EXISTING OR NEW WALLS AND CEILINGS SHALL BE FIRE-STOPPED AS REQUIRED PER TESTED LISTED ASSEMBLIES, AND SHALL MATCH THE RATING OF THE ASSEMBLY IT IS PENETRATING.
- 7. CONTRACTOR TO INSTALL EXIT/EMERGENCY LIGHTS AS REQUIRED BY LOCAL, STATE, OR PROVINCIAL BUILDING CODES.
- 8. ALL PARTITIONS, DOORS, GLAZED OPENINGS, SOFFITS, ET AL., SHALL BE STRUCTURALLY BRACED IN ACCORDANCE WITH SEISMIC CODE REQUIREMENTS.
- 9. WHEREVER DIAGONAL BRACING IS INDICATED OR OTHERWISE REQUIRED, INSTALL BRACING UNEXPOSED TO VIEW.
- 10. ALIGN NEW WALL SURFACES WITH THE EXISTING ADJACENT OR ADJOINING SURFACES WHERE INDICATED. TAPE AND SAND THE JOINTS TO SMOOTH WITHOUT ANY VISIBLE JOINTS. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES.
- 11. CORRECT ANY DEFECTS IN EXISTING BUILDING CONSTRUCTION WHICH AFFECTS QUALITY AND INSTALLATION OF THE WORK. THIS INCLUDES, BUT IS NOT LIMITED TO EXISTING UNEVEN SURFACES AND FINISHES AT GYPSUM BOARD WHERE THEY MEET THE IMPROVEMENTS. OFFSET STUDS WHERE REQUIRED TO ALIGN FINISH MATERIAL.
- 12. REPLACE ANY DAMAGED OR MISSING MATERIALS SUCH AS WALL BASES, CORNER TRIMS, CEILING TILES, ETC. TO MATCH EXISTING (UNLESS OTHERWISE NOTED).
- 13. ALL EQUIPMENT, LIGHTS OR DEVICES THAT ARE REQUIRED TO BE UL TESTED OR APPROVED SHALL HAVE A UL LISTING LABEL.
- 14. SMACNA STANDARDS AND DETAILS CURRENT EDITION SHALL BE USED FOR ALL SPECIFIC ROOF PENETRATIONS, FLASHING, DUCT ASSEMBLIES, AND OTHER WHETHER SHOWN ON DRAWINGS OR NOT.
- 15. PROVIDE ALL REQUIRED ROOF MATERIALS TO COMPLETE WATER TIGHT FLASHING AT ALL VTR PENETRATIONS AND INTERSECTING ROOF PENETRATIONS.
- 16. GENERAL CONTRACTOR REQUIRED TO PROVIDE NECESSARY BLOCKING FOR ALL OWNER PROVIDED SIGNAGE, WALL-MOUNTED FIXTURES AND FURNISHINGS, AND SUPPORTS. G.C. SHALL VERIFY THE CHARACTERISTICS OF ALL EQUIPMENT, MILLWORK OR OTHER ITEMS BEING FURNISHED BY OWNER OR OWNER'S CONTRACTORS FOR WHICH G.C. IS RESPONSIBLE FOR INSTALLING. G.C. ASSUMES COMPLETE RESPONSIBILITY WHEN OWNER FURNISHED ITEMS ARE ACCEPTED AND RECEIVED BY G.C. ALL LIGHT SWITCHES, THERMOSTATS, SECURITY ALARMS, ELECTRICAL OUTLETS, ETC. MUST BE MOUNTED TO MEET ALL GOVERNING ACCESSIBILITY REQUIREMENTS FOR FLOOR & HEIGHT CLEARANCES AND ONE HAND GRASPING OPERATION.

FIRE PROTECTION GENERAL NOTES:

- 1. CONTRACTOR TO CONTACT THE CITY TO DETERMINE IF ANY MODIFICATIONS TO SPRINKLERS AND ALARM SYSTEMS WILL BE REQUIRED TO COMPLY WITH LOCAL AND STATE CODES; INCLUDING FIRE MARSHAL. CONTRACTOR TO PROVIDE DESIGN, PERMITTING AND CONSTRUCT AS REQUIRED.
- 2. PROVIDE APPROPRIATE COVERAGE OF HEADS FOR PARTITION LAYOUT AS REQUIRED BY CODE PER PARTITION LAYOUT AS SHOWN. QUANTITY AND LOCATION OF HEAD TO COMPLY WITH APPLICABLE CODES.
- 3. PROVIDE/MODIFY FIRE ALARM SYSTEM IF REQUIRED BY LOCAL CODE.
- 4. PROVIDE AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE.
- 5. FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE ALARM DRAWINGS TO CITY PRIOR TO BEGINNING ANY WORK.
- 6. FIRE SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO CITY PRIOR TO BEGINNING ANY WORK.

VENDOR LIST			
VENDOR	PRODUCT/SERVICE	CONTACT	PHONE/EMAIL
ARCHETYPE	INTERIOR SIGNAGE & GRAPHICS	JENNY KRUSE	(952) 641–9600 (JENNY) jennyk@archetypesign.com
SHAW INTEGRATED SOLUTIONS	CARPET, STONE FOR RETAIL LOGO WALL, VINYL PLANK	CUSTOMER SERVICE	(800) 338-9479 anytime.fitness@shawinc.com
DALTILE	TILE	AMY MCMACKEN	(734) 218-4995 amy.mcmacken@daltile.co sebrands@daltile.com
ECORE INTERNATIONAL	RUBBER FLOORING (FREE WEIGHTS) & TURF (FUNCTIONAL TRAINING)	CUSTOMER SERVICE	(515) 450-2144 mbk@ecoreintl.com
IKEA	FURNITURE		www.ikea.com\us\en
SPECIALTY LIGHTING	LIGHTING	AMANDA FOUST LINDA JARCKI	(860) 767–0110 X249 (AMANDA) amanda. (860) 767–0110 X225 (LINDA) linda.jara
PROVISION SECURITY	SECURITY		(866) 315-0777 projects@provisionsecurity.com
GLOBAL RETAIL ENVIRONMENTS	RETAIL LOGO WALL DISPLAY CASE, WALL PROTECTION & LOCKERS	CUSTOMER SERVICE	(800) 983-000 OR (320) 983-0000 dscharber@globalretailenvironments.com
TWIN CITY HARDWARE	DOORS, FRAMES & HARDWARE	BOB HAEN	(651) 731-7142 bhaen@tchco.com
ROLLER SHADE	SHADES	RIC BERG	(951) 245-5077 X133 ric.berg@rollashade.com
SHERWIN WILLIAMS	PAINT & DRY-ERASE COATING	LOCAL STORE	NATIONAL ACCOUNT NUMBER: 5753-1214-5 TO DISCOUNTED NATIONAL ACCOUNT PRICING
KENDU	LIGHTBOX	TIM HOIEN JULIANA DIAZ	TO ORDER CONTACT tim.hoien@kendu.com AND FOR QUESTIONS CONTACT TIM HOIEN AT (612) 2

CODE DATA - BUILDING DESIGN INFORMATION:

JURSDICTION:

PROJECT SCOPE:

BUILDING:

PLUMBING:

GAS:

FIRE:

MECHANICAL:

DEVELOPMEN[®] 220 SE GREE LEE'S SUMMI 816.969.1200 TENANT BUIL ADDING PART PLUMBING SYS 2018 INTERNA 2018 INTERNA 2018 INTERNA 2018 INTERNA 2018 INTERNA

ELECTRICAL: ENERGY: ACCESSIBILITY: USE:

OCCUPANCY CLASSIFICATION:

FLOOR AREA: (NO INCREASE IN BUILDING HEI TENANT FLOOR AREA:

OCCUPANT LOAD:

OCCUPANCY SEPARATION:

CONSTRUCTION TYPE:

FIRE PROTECTION SYSTEMS:

AUTOMATIC SPRINKLER SYSTEM: (Y OR N) **EXITS AND EXIT ACCESS DOORWAYS**

REQUIRED EXISTS:

MINIMUM WIDTH:

ACTUAL PROVIDED WIDTH:

EXIT ACCESS TRAVEL DISTANCE:

ACTUAL EXIT ACCESS TRAVEL DISTANCE:

ENERGY COMPLIANCE METHOD:

PLUMBING FIXTURE CALCULATIONS PER 2018 IBC TABLE 2902.1

TYPE OF OCCUPANCY	WATER CLOS (FIXTURES F	SETS PER PERSON)	LAVATORIES (FIXTURES P	ER PERSON)	BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS / FACILITIES (FIXTURES PER PERSON)	OTHER
A-3 ASSEMBLY GYMNASIUM OCCUPANCY (REQUIREMENTS)	MALE 1:125	FEMALE 1:65	MALE 1:200	Female 1:200	-	1:500	
PLUMBING FIXTURES PROVIDED	UNISEX: 4		UNISEX: 4	-	2	1 BI-LEVEL	1 SERVICE SINK

ABBREVIATIONS:

ABV ACT

AFF

ALUM

BLDG

BM

BO

CLG

CLOS CLR

CMU

CO

COL CORR

CONC

CONT

CPT

CT

DET

DIA

DIM

DN

DWG

ELEV

ELEC ELEV

EPDM

F۸

BOT

BTWN

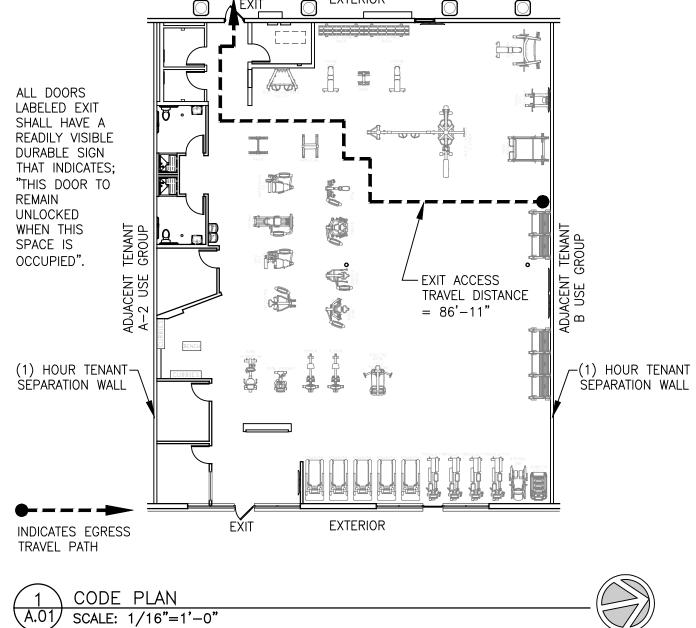
ANOD

APPROX ARCH

CITY OF LEES SUMMIT DEVELOPMENT SERVICES 220 SE GREEN LEE'S SUMMIT, MO 64063 816.969.1200	
TENANT BUILD OUT OF EXISTING SPACE, WOR ADDING PARTITIONS, CEILINGS ETC. AND REVI PLUMBING SYSTEMS.	
2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL & GAS CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL ENERGY CONSERVATION 2009 ANSI A117.1	CODE
N:	ASSEMBLY-GROUP A-3
IN BUILDING HEIGHT OR AREA)	
	5,399 SF
	5,399 SF/50 SF PER PERSON = 108 PERSONS
	(1)HR @ ADJACENT B USE GROUP
	TYPE 5B
STEM: (Y OR N) DRWAYS:	Y
	2
	21.6"

ABOVE				
ACOUSTIC CEILING TILE	EOS	EDGE OF SLAB	OC	ON CENTER
ABOVE FINISHED FLOOR	EP	ELECTRICAL PANEL	OD	OUTSIDE DIAMETER
ALUMINUM	EQ	EQUAL	OH	OVERHANG
ANODIZED	EQUIP	EQUIPMENT	OFCI	OWNER FURNISHED-
APPROXIMATE	EXP	EXPANSION		CONTRACTOR INSTALLED
ARCHITECT	EXT	EXTERIOR	OFD	OVERFLOW DRAIN
		EXTENSION	OFF	OFFICE
/ARCHITECTURAL	50			
	FD	FLOOR DRAIN OR	OPNG	OPENING
BACK OF CURB		FIRE DEPARTMENT		
BOARD	FDN	FOUNDATION	PL	STEEL PLATE
BUILDING	FE	FIRE EXTINGUISHER	PNT	PAINT OR PAINTED
BEAM	FF	FINISHED FLOOR	PR	PAIR
BOTTOM	FG	FINISHED GRADE		
BETWEEN	FIN	FINISH	R	RADIUS
BOTTOM OF	FL	FINISHED SURFACE	REV	REVISION
BOTTOM OF	FO	FACE OF	REQD	REQUIRED
			-	-
CENTERLINE	FS	FINISHED SURFACE	RM	ROOM
CEILING	FT	FEET/FOOT		
CLOSET			SC	SEALED CONCRETE
CLEAR	GWB	GYPSUM WALL BOARD	SHT	SHEET
CONCRETE	GLAZ	GLAZING	SIM	SIMILAR
MASONRY UNIT	GC	GENERAL CONTRACTOR	SPEC	SPECIFICATIONS
CLEAR OPENING			SS	STAINLESS STEEL
COLUMN	HC	HANDICAPPED	STD	STANDARD
	HR		STL	STEEL
CORRIDOR		HOUR		
CONCRETE	HT	HEIGHT	SQ	SQUARE
CONTINUOUS			-	705.00
CARPET	INSUL	INSULATION	Т	TREADS
CERAMIC TILE	INT	INTERIOR	TC	TOP OF CURB
	INFO	INFORMATION	TGC	TENANT GENERAL
DETAIL				CONTRACTOR
DRINKING FOUNTAIN	JT	JOINT		
DIAMETER	01	00111	TEL	TELEPHONE
DIMENSION	LNDG	LANDING	TO	TOP OF
	LNDG		TOS	TOP OF SLAB
DOWN	LU	LINE OF	TOW	TOP OF WALL
DOOR				
DRAWING	MAX	MAXIMUM	TS	TOP OF STEEL
	MECH	MECHANICAL	TYP	TYPICAL
EACH	MEP	MECHICAL, ELECTRIC,		
ELEVATION		PLUMBING	UNO	UNLESS NOTED
ELAVATOR	MFR	MANUFACTURER		OTHERWISE
ELECTRICAL	MIN	MINIMUM		
ELEVATOR OR	MISC	MISCELLANEOUS	VCT	VINYL COMPOSITION TILE
ELEVATION	MO	MASONRY OPENING	VIF	VERIFY IN FIELD
		NOT APPLICABLE	•••	
ETHYLENE	NA		NA /	
PROPYLENE	NIC	NOT IN CONTRACT	W/	WITH
DIENE M-CLASS	NO	NUMBER	WD	WOOD
(ROOFING)	NTS	NOT TO SCALE	WC	WATER CLOSET
·			WH	WATER HEATER

21.6 72" 250' MAXIMUM 86'-11" COMCHECK



EXTERIOR



NORTH

WATER HEATER

WITHOUT

WH

W/O



da.foust@sslighting.com arcki@sslighting.com

TO GET

juliana.diaz@kendu.com 280-7016



LOCATION PLAN (2) LOCATION (A.01) SCALE: N.T.S.



SUMMIT CREST PLAZA 3508 SW MARKET STREET LEE'S SUMMIT, MO 64082

PROJECT DIRECTORY:

ARCHITECT: 00 TRILEAF ENGINEER: CASE **CONSTRUCTION** DESIGN MANAGER SELF ESTEEM <u>TENANT</u>: OWNER/FRANCHISEE:

<u>LANDLORD:</u>

1515 DES PERES ROAD SUITE 200 ST. LOUIS, MO 63131

JEFFREY CHARLES BUMB MANAGING ARCHITECT 314-997-6111 j.bumb@trileaf.com

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MATT CASE

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JEFF: 816.914.0406 JILLIAN: 816.810.9190 JOSEPH C. TUTERA 816.206.4496 jefft@tutera.com

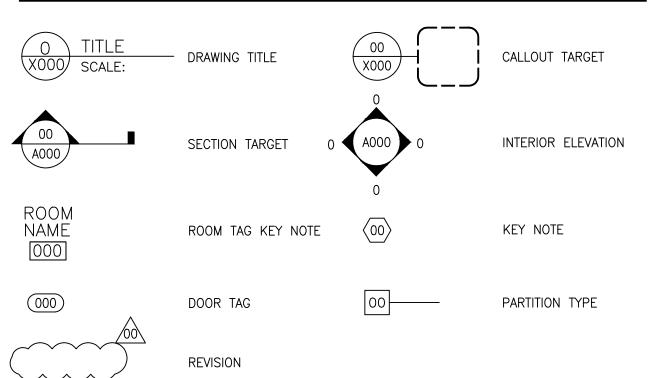
jjdoughco@gmail.COM

SHEET INDEX:

(CURRENT REVISION) SHEET NUMBER	SHEET NAME
(, 2 ,	A0.1	COVER SHEET
(, 2 ,	A1.1	DEMOLISHION PLAN
(, 1 ,	A2.1	ARCHITECTURAL FLOOR PLAN
(, <	A2.2	ENLARGED TOILET ROOM PLAN & ELEVATIONS
(, <	A3.1	FINISH PLAN
(, <	A3.2	SCHEDULES
(, <	A4.1	REFLECTED CEILING PLAN
(, <	A5.1	PARTITION TYPES
(, <) A6.1	DETAILS
(, <) A6.2	DETAILS
(, <	A6.3	DETAILS
(, <	A7.1	SPECIFICATIONS
(, <	A7.2	SPECIFICATIONS
(, 2 ,	(м1	HVAC PLAN
(, 2 ,) м2	MECHANICAL SCHEDULES AND DETAILS
(, <) мз	MECHANICAL SPECIFICATIONS
(, <	E1	ELECTRICAL POWER PLAN
(, <	E2	ELECTRICAL LIGHTING PLAN
(, <	E3	ELECTRICAL RISER DIAGRAM & SCHEDULES
(, <) E4	LOW VOLTAGE PLAN
(, <) E5	LOW VOLTAGE DETAILS
(, <) E6	ELECTRICAL SPECIFICATIONS
(, <) PO	PLUMBING COVER
(, <) P1	PLUMBING PLAN
(, <) P2	PLUMBING RISERS
(, <) РЗ	PLUMBING DETAILS
(>) _{P4}	PLUMBING SPECIFICATIONS
(\searrow		

DRAWING LEGEND:

2



TRILEAF architecture | engineering 1515 DES PERES ROAD, STE 200 SAINT LOUIS, MISSOURI 63131 PHONE | 314-997-6111 FAX | 314-997-8066 CONSULTANT SEAL ЕЕ⁻)82 SUN 3508 LEE REVISIONS REV. DATE ISSUE 1 04/13/22 PERMIT REVISION 2 04/27/22 FIELD REVISION DATE: 01.14.22 ΤG DRAWN BY: CHECKED BY: JCB PROJECT NUMBER: 689411 COVER SHEET A0.'

ARCHITECT

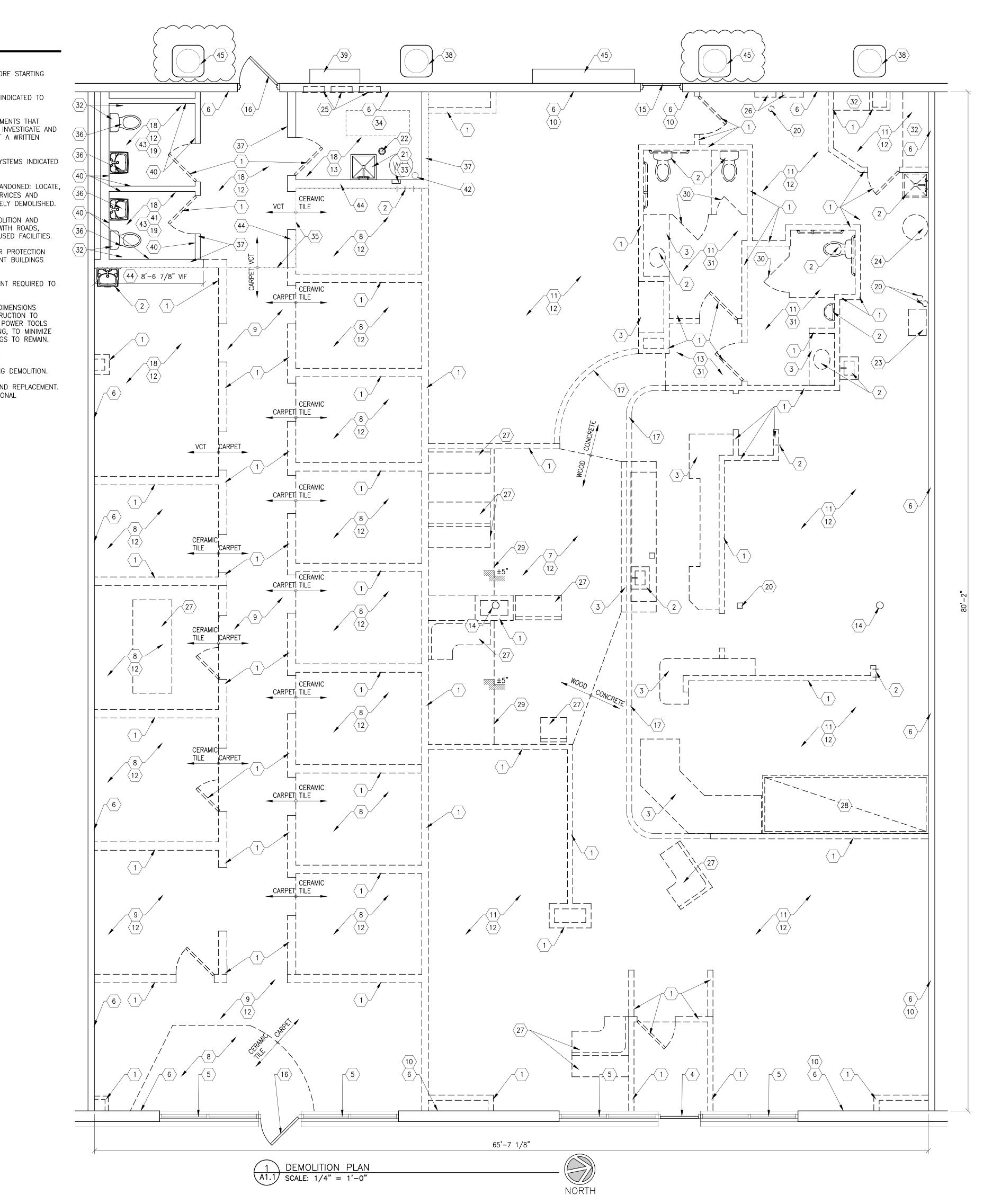
DEMOLITION KEYED NOTES:

- REMOVE EXISTING PARTITION WALLS / DOORS (SHOWN DASHED, TYP). ALL ELECTRICAL TO BE BROUGHT BACK TO NEAREST PANEL AND MADE SAFE. PATCH AND REPAIR ADJACENT SURFACES FOR NEW FINISHES.
- 2 REMOVE EXISTING PLUMBING FIXTURE AND/OR ASSOCIATED PIPING. CAP ASSOCIATED PIPING IN WALL/FLOOR AS REQ'D. PATCH AND REPAIR ADJACENT SURFACES FOR NEW FINISHES. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 REMOVE EXISTING COUNTER/SHELVES/ACCESSORIES COMPLETELY. PATCH AND REPAIR ADJACENT SURFACES FOR NEW FINISHES.
- (4) EXISTING DOOR TO BE SHUT AND LOCKED IN CLOSED POSITION. REMOVE ALL HARDWARE ADD COVER PLATE. CLEAN/REPAIR TO LIKE NEW.
- (5) EXISTING STOREFRONT TO REMAIN. GC TO CLEAN AND REPAIR TO LIKE NEW CONDITION. REMOVE ANY FIXTURES, WALL STANDARDS, RECEPTACLES ETC. FROM EXISTING WALLS.
- 6 PATCH AND REPAIR GWB TO LIKE-NEW CONDITION. PREPARE FOR NEW CONSTRUCTION AND FINISHES.
- T REMOVE EXISTING WOOD FLOORING AND BASE. CONCRETE FLOOR TO BE CLEANED AND PREPPED FOR NEW FLOORING. SEE FINISH PLAN FOR NEW WORK.
- 8 REMOVE EXISTING CERAMIC TILE FLOORING. CONCRETE FLOOR TO BE CLEANED AND PREPPED FOR NEW FLOORING. SEE FINISH PLAN FOR NEW WORK.
- (9) REMOVE EXISTING CARPET AND BASE. CONCRETE FLOOR TO BE CLEANED AND PREPPED FOR NEW FLOORING. SEE FINISH PLAN FOR NEW WORK.
- (10) REMOVE EXISTING WOOD WAINSCOT AND BASE FROM WALL. PREP FOR NEW FINISHES.
- CONCRETE FLOOR TO BE CLEANED AND PREPPED FOR NEW FLOORING. SEE FINISH PLAN FOR NEW WORK.
- (12) REMOVE EXISTING LAY-IN CEILING, CEILING FIXTURES AND LIGHTING. PATCH AND REPAIR ADJACENT WALLS AS REQUIRED. ALL ELECTRICAL CONDUIT AND WIRING TO BE REMOVED BACK TO NEAREST PANEL AND MADE SAFE. SEE ELECTRICAL DRAWINGS FOR NEW LIGHTING LAYOUT.
- (13) EXISTING GWB CEILING TO REMAIN. PATCH AND REPAIR AS REQ'D. PREP FOR NEW CEILING FIXTURES.
- 14
 EXISTING COLUMN TO REMAIN. REMOVE FURRING & DRYWALL AND CLEAN EXISTING

 STEEL OF ALL DEBRIS AND PREP FOR NEW FINISH.
- (15) EXISTING DOOR TO REMAIN. REMOVE HARDWARE, ADD COVER PLATE AND TACK WELD SHUT. CLEAN/REPAIR TO LIKE NEW.
- $\overline{(16)}$ Existing door to remain. Repair as required. Prep for New Finishes.
- $\overbrace{17}$ EXISTING SOFFIT TO BE REMOVED COMPLETLY TO ROOF DECK ABOVE. PATCH AND REPAIR AS NEEDED TO EXCEPT NEW FINISHES.
- (18) REMOVE EXISTING VCT AND BASE (WHERE APPLICABLE). CONCRETE FLOOR TO BE CLEANED AND PREPPED FOR NEW FINISHES. SEE FINISH PLAN FOR NEW WORK.
- $\langle 19 \rangle$ remove existing ceramic tile wainscot from wall. Prep for New Finishes.
- (20) REMOVE FLOOR DRAIN, CAP PLUMBING 6" BELOW SLAB. PATCH AND REPAIR AS REQ'D TO RECIEVE NEW FINISHES. (TYP.)
- (21) EXISTING MOP SINK TO REMAIN, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING FLOOR DRAIN TO REMAIN, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- $\langle 23 \rangle$ REMOVE GREASE TRAP. PATCH AND REPAIR AS REQ'D TO RECIEVE NEW FINISHES.
- (24) REMOVE WATER HEATER. PATCH AND REPAIR AS REQ'D TO RECIEVE NEW FINISHES.
- 25 EXISTING ELECTRICAL PANELS TO BE REMOVED AND REPLACED WITH RELOCATED PANELS, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (26) EXISTING ELECTRICAL PANELS TO BE REMOVED. PATCH AND REPAIR ADJACENT SURFACES. SALVAGE FOR RELOCATION. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PREVIOUS TENANT FIXTURE/EQUIPMENT TO BE REMOVED. PATCH AND REPAIR ADJACENT SURFACES AS REQ'D.
- EXISTING HOODS, EXHAUST FANS AND ALL KITCHEN EQUIPMENT TO BE REMOVED COMPLETLY. PATCH & REPAIR ROOF AS REQ'D. PREP FOR NEW FINISH.
- 29 wood platform to be removed. Patch and repair adjacent surfaces as req'd.
- 30 Toilet partitions to be removed. Patch and repair adjacent surfaces as req'd.
- (31) REMOVE EXISTING GWB CEILING, CEILING FIXTURES AND LIGHTING. PATCH AND REPAIR ADJACENT WALLS AS REQUIRED. ALL ELECTRICAL CONDUIT AND WIRING TO BE REMOVED BACK TO NEAREST PANEL AND MADE SAFE. SEE ELECTRICAL DRAWINGS FOR NEW LIGHTING LAYOUT.
- $\langle \overline{32} \rangle$ EXISTING GRAB BARS TO BE REMOVED.
- $\overline{33}$ WASHER/DRYER HOOK UP TO REMAIN FOR POSSIBLE REUSE.
- $\overline{34}$ MEZZANINE PULL DOWN ACCESS STAIRS TO REMAIN.
- (35) EXISTING MEZZANINE ABOVE TO REMAIN.
- (36) PLUMBING FIXTURES TO BE CLEANED, REPAIRED AS REQ'D AND REUSED.
- $\overline{37}$ Wall to remain, patch & repaired as req'd. Prep for New Finishes.
- (38) EXISTING CONDENSING UNIT TO REMAIN. REFER TO MECHANICAL DRAWINGS.
- (39) EXISTING ELECTRICAL EQUIPMENT TO REMAIN. REFER TO ELECTRICAL DRAWINGS.
- (40) STUD WALL TO REMAIN, REMOVE EXISTING GWB/TILE @ UNISEX ROOMS & PREP FOR NEW MOISTURE RESISTANT GYP. BD. PATCH & REPAIRED AS REQ'D. REFER TO SHEET A2.2.
- (41) REMOVE EXISTING GWB FROM CEILING & PREP FOR NEW NEW MOISTURE RESISTANT GYP. BD. PATCH & REPAIR AS REQ'D. REFER TO SHEET A2.2.
- $\langle 42 \rangle$ EXISTING DRYER VENT AT GWB CEILING
- $\overline{\langle 43 \rangle}$ EXISTING ACCESSORIES TO BE REMOVED.
- 44EXISTING WALL TO REMAIN. PATCH & REPAIRED AS REQ'D. PREP FOR NEW FINISHES.
REFER TO SHEETS A2.1 & A4.1 FOR ADDITIONAL INFORMATION.45EXISTING CONDENSING UNIT TO BE REPLACED REFER TO MECHANICAL DRAWINGS.
- ------

DEMOLITION GENERAL NOTES:

- 1. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING SELECTIVE DEMOLITION OPERATIONS.
- 2. SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
- 3. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO DESIGNER.
- 4. EXISTING SERVICES / SYSTEMS TO REMAIN: MAINTAIN SERVICES / SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.
- 5. EXISTING SERVICES / SYSTEMS TO BE REMOVED, RELOCATED OR ABANDONED: LOCATE, IDENTIFY, DISCONNECT AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL / ELECTRICAL SYSTEMS SERVING AREA TO BE SELECTIVELY DEMOLISHED.
- 6. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT SELECTIVE DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
- 7. TEMPORARY FACILITIES: PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
- 8. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED TO NEW CONSTRUCTION AND AS INDICATED.
- 9. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS TO REMAIN.
- 10. ALL EXISTING FLOOR FINISHES TO BE REMOVED TO CONCRETE SLAB.
- 11. REFER TO MEP DRAWINGS FOR MECHANICAL, ELECTRICAL & PLUMBING DEMOLITION.
- 12. REFER TO PLUMBING DRAWINGS FOR LOCATION OF SLAB REMOVAL AND REPLACEMENT. FIELD VERIFY EXACT LOCATION. REFER TO DETAIL 2/A2.2 FOR ADDITIONAL INFORMATION.



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CON	ISULT	ANT	-
SEA			
			SUMMIT CREST PLAZA 3508 SW MARKET STREET LEE'S SUMMIT, MO 64082
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<u>/</u> 2	04/27/22	FIELD I	REVISION
DATE:			01.14.22
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- (1) RELOCATED ELECTRICAL PANELS SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- $\langle 2 \rangle$ 'NERVE' CENTER LOC. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- $\overline{\langle 3 \rangle}$ EXISTING COLUMN REFER TO DWG. A3.1 & A3.2 FOR FINISH INFORMATION.
- (4) LIGHTBOX SUPPLIED BY OWNER, INSTALLED BY G.C. REFER TO DETAILS ON SHEET 3/A6.2 ADDITIONAL INFORMATION.
- (5) WALL MOUNTED FIRE EXTINGUISHER VERIFY FINAL LOCATION W/LOCAL FIRE MARSHALL.
- 6 FEATURE WALL, WITH GRAPHIC BY OWNER REFER TO DETAIL 8/A6.2 FOR ADDITIONAL INFORMATION.
- Image: Decation of 911 Phone and AED CABINET SUPPLIED BY OWNER, INSTALLED BYG.C. REFER TO DETAIL 2/A6.3 FOR ADDITIONAL INFORMATION.
- (8) PROVIDE MIRRORS ALONG FACE OF WALL AS INDICATED. FROM 2'-0" A.F.F. TO 8'-0" A.F.F.
- (9) EXISTING DOOR TO BE SHUT AND LOCKED IN CLOSED POSITION. REMOVE ALL HARDWARE ADD COVER PLATE. CLEAN/REPAIR TO LIKE NEW.
- (1) EXISTING DOOR TO REMAIN. REMOVE HARDWARE, ADD COVER PLATE AND TACK WELD SHUT. CLEAN/REPAIR TO LIKE NEW.
- $\langle 11 \rangle$ EXISTING STOREFRONT SYSTEM. CLEAN/REPAIR TO LIKE NEW.
- LOCATION OF TV GC TO PROVIDE & INSTALL POWER & DATA SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. OWNER TO PROVIDE & INSTALL TV'S & MOUNTS –REFER TO 12/A6.3 FOR BLOCKING DETAIL (TYP).
- EXISTING DOOR TO REMAIN. CLEAN AND REPAIR AS REQUIRED. VERIFY THRESHOLD (1/2" MAX. RISE WITH BEVELED SIDES THAT SLOPE 1:2 MAX) PROVIDE 1/2" SADDLE AT ALL THRESHOLDS THAT ABUT THE
- (14) INFILL DOOR OPENING WITH 5/8" TYPE 'X' GYP. BD. (INTERIOR SIDE ONLY) OVER 2 1/2" METAL STUDS @ 16" O.C. ALIGN GYP. BD. WITH ADJACENT WALL.
- TV SCREENWALL SUPPLIED BY OWNER, INSTALLED BY G.C. REFER TO DETAILS ON SHEET 16/A6.2 ADDITIONAL INFORMATION.
- (16) INFILL OPENING WITH 5/8" TYPE 'X' GYP. BD. (BOTH SIDES) OVER METAL STUDS @ 16" O.C. MATCH EXISTING THICKNESS.
- (17) EXTEND EXISTING WALL TO DECK. REFER TO DETAIL 5/A4.1
- (18) CENTER WALL ON MULLION
- (19) ALIGN WALL AT ADJACENT OPENING
- 20 ACCESS TO MEZZANINE. VERIFY PROPER WORKING ORDER. REPAIR AS REQ'D.
- $\langle 21 \rangle$ AIR HANDLING UNITS ABOVE, REFER TO MECHANICAL DRAWINGS.
- $\langle 22 \rangle$ EXISTING WATER HEATERS TO REMAIN.

PARTITION GENERAL NOTES:

- 1. EXISTING AND NEW PARTITION DIMENSION TOLERANCE IS +/-1" UNLESS NOTED AS HOLD.
- 2. PATCH/REPAIR EXISTING AND DAMAGED PARTITIONS TO REMAIN TO ACCEPT NEW FINISHES.
- 3. ALL NEW INTERIOR WALLS SHALL BE CONSTRUCTED OF MIN 25 3 5/8" GA METAL STUDS (WOOD STUDS ACCEPTABLE IF APPROVED 5/8 BY CODE) AND 5/8 " DRYWALL MINIMUM OR MATCH EXISTING TO REMAIN.
 4. ALL NEW AND EXISTING WALLS SHALL BE TAPED AND SMOOTH, PREPARE TO RECEIVE FINISH.
- 5. PROVIDE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AT 30' 0" O.C. WHERE NO OTHER OPENINGS OCCUR WITHIN THAT LENGTH.
- 6. USE CASING BEAD WHERE DRYWALL ABUTS DISSIMILAR CONSTRUCTION SUCH AS WINDOW FRAMES. EXISTING DOOR FRAMES AND CEILING TRACK.
- 7. COMPLY WITH APPLICABLE REQUIREMENTS OF ASTM C 840 AND GA 216 FOR APPLICATION AND FINISHING OF GYPSUM BOARD.
- 8. COMPLY WITH APPLICABLE REQUIREMENTS OF ASTM C 754 FOR INSTALLATION OF STEEL FRAMING.
 9. WALLS ARE BASED ON L / 120 DEFLECTION, AND SHEATHING BOTH SIDES OR BRIDGING OR
- STRAPPING AT 4'-0" OC MAX (DESIGN LOAD IS 5 PSF).
 10. DIAGONAL BRACES TO BE 3 5/8" STUD, 20 GAGE, 10'-0" MAX LENGTH WITH STRAPPING AT 4'-0" OC BOTH SIDES. RANGE OF DIAGONAL BRACING TO BE 30 TO 45 DEGREES FROM
- 11. WHERE NON-LOAD BEARING WALLS EXTEND TO UNDERSIDE OF FLOOR OR ROOF ABOVE, PROVIDE FOR DEFLECTION OF APPLIED LOAD BY NESTED TRACK METHOD OR MANUFACTURED PROPRIETARY SYSTEM. REFERENCE SECTION SLIP JOINT AND SECTION SLIP JOINT (DEEP) THIS DWG.
- 12. WHEN BRACING IS PARALLEL TO A STEEL BEAM OR FRAMING MEMBER, ATTACH BRACING TO BOTTOM FLANGE OF BEAM OR FRAMING MEMBER. WHEN BRACING IS NOT PARALLEL TO A STEEL BEAM OR FRAMING MEMBER, ATTACH BRACING TO TOP FLANGE OF BEAM OR FRAMING MEMBER. DO NOT ATTACH BRACING TO ROOF DECK. WHERE GYPSUM BOARD IS INDICATED ON ONE SIDE OF METAL STUD ONLY, OR NEITHER SIDE AT PORTION OF WALL ABOVE CEILING, PROVIDE WALL STRAPPING AT 4'-O"OC AT EXPOSED STUD FACE. ALL WALL BRACING SHALL BE ABOVE CEILING WHERE A CEILING IS PROVIDED WITHIN ANY ROOM OR AREA.

GENERAL NOTES:

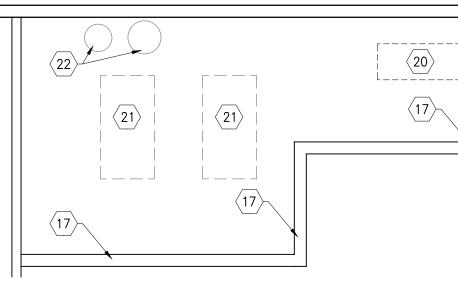
VERTICAL.

- 1. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL, FACE OF EXISTING CONSTRUCTION (UNO).
- 2. REFER TO SHEET A3 FOR ALL WALL & FLOOR FINISHES.
- 3. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 4. REFER TO THE LATEST ANYTIME FITNESS DESIGN MANUAL FOR ALL REQUIRED FURNITURE AND ACCESSORIES – GENERAL CONTRACTOR TO ASSEMBLE AND INSTALL OWNER SUPPLIED FURNITURE – VERIFY QUANTITIES WITH OWNER.
- 5. REFER TO PLUMBING DRAWINGS FOR LOCATION OF SLAB REMOVAL AND REPLACEMENT. FIELD VERIFY EXACT LOCATION. REFER TO DETAIL 2/A2.2 FOR ADDITIONAL INFORMATION.

CONTRACTOR NOTES:

GENERAL CONTRACTOR RESPONSIBILITIES

- 1. FIELD VERIFY PROJECT SPACE CONDITIONS PRIOR TO CONSTRUCTION.
- 2. PATCH / REPAIR / PREP EXISTING AND DAMAGED DEMISING WALLS TO ACCEPT NEW FINISHES.
- 3. INFILL ALL CONCRETE TRENCHING PER DETAIL 2/A2.2.





ARCHITECTURAL LEGEND:

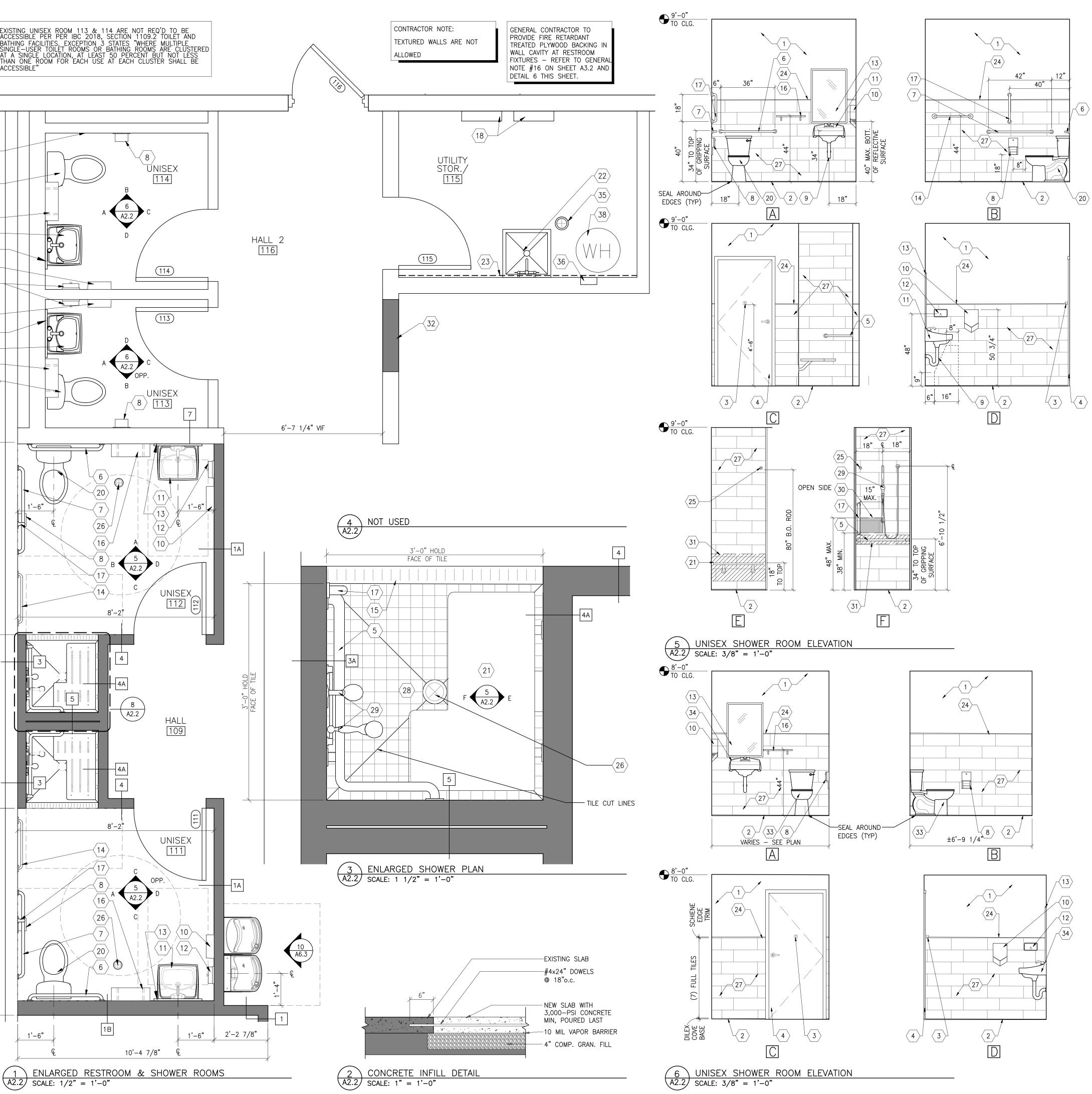


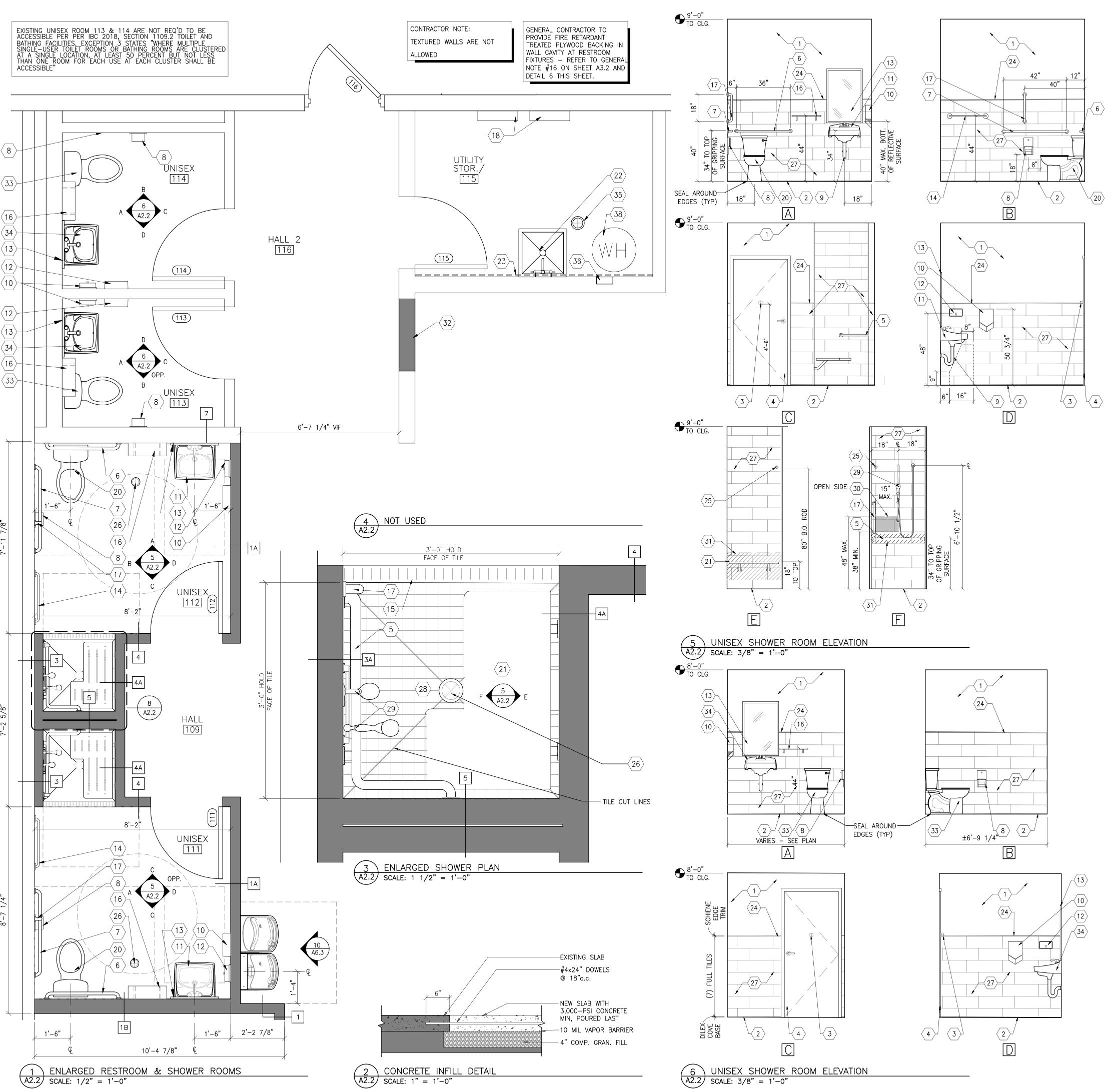


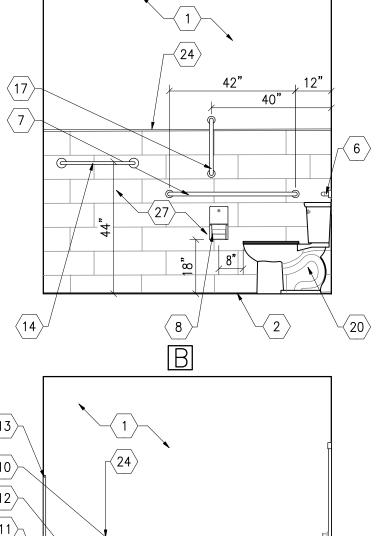
- $\langle 1 \rangle$ water resistant gyp. bd. wall paint refer to a3.1 & a3.2.
- $\langle 2 \rangle$ SCHLUTER BASE TRIM, REFER TO SCHEDULES OF SHEET A3.2.
- 3 ROBE HOOK.
- $\langle 4 \rangle$ DOOR & FRAME REFER TO A3.2.
- $\overline{5}$ two wall shower grab bar refer to 12/A6.3 for blocking information
- $\langle 6 \rangle$ 36" GRAB BAR REFER TO 12/A6.3 FOR BLOCKING INFO
- $\langle 7 \rangle$ 42" GRAB BAR REFER TO 12/A6.3 FOR BLOCKING INFO
- (8) MULTI ROLL TOILET PAPER DISPENSER B-2888 REFER TO 12/A6.3 FOR BLOCKING INFORMATION.
- 9 PROVIDE TRAP PROTECTION.
- HAND DRYER (DYSON AIRBLADE V) TO BE PURCHASED BY OWNER THROUGH ANYTIME FITNESS DASHBOARD GC TO INSTALL REFER TO ELECTRICAL DRAWINGS.
- (1) ADA COMPLIANT LAVATORY.
- (12) SOAP DISPENSER REFER TO 12/A6.3 FOR BLOCKING INFO
- 13) 24" x 36" POLISHED PLATE GLASS MIRROR IN STAINLESS STEEL FRAME COPE WALL TILE AROUND MIRROR
- (14) 24" TOWEL BAR SEE PLAN FOR LOCATION REFER TO 12/A6.3 FOR BLOCKING INF
- $\langle 15 \rangle$ FLOOR TRENCH DRAIN SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- $\langle 16 \rangle$ 4" x18" STAINLESS STEEL WALL SHELF VERIFY FINAL LOCATION WITH OWNER
- (17) 18" VERTICAL GRAB BAR.
- (18) RELOCATED ELECTRICAL PANELS SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- DRINKING FOUNTAIN WITH BOTTLE FILLING STATION PROVIDE CANE APRON, REFER TO 10/A6.3.
- ADA COMPLIANT WATER CLOSET, FLUSH CONTROL TO BE ON OPEN SIDE OF WATER CLOSET (SIDE OPPOSITE OF WALL)
- (21) ADA COMPLIANT RETRACTABLE SHOWER SEAT
- EXISTING SERVICE SINK PROVIDE MIXING VALVE AS REQ'D. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- 23 PROVIDE 8 0 нісп HEATER AS SHOWN. PROVIDE 8'-0" HIGH FRP WAINSCOT AT BACK WALL OF SERVICE SINK AND WATER
- (24) SCHLUTER TRIM, REFER TO SCHEDULES OF SHEET A3.2.
- (25) SHOWER CURTAIN ROD @ 80" AFF TO BOTTOM OF ROD.
- 26 NEW FLOOR DRAIN SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- $\langle 2 \rangle$ CERMIC TILE REFER TO SCHEDULE FOR NEW DESIGN ON SHEET 3.2.
- PROVIDE POSITIVE SLOPE TO FLOOR DRAINS IF SLAB IS EXISTING, REMOVE PORTION AS NEEDED & REPOUR TO REQ'D. SPECIFICATIONS –COORDINATE SLOPES W/ FLOORINC CONTRACTOR TO ACHIEVE CLEAN, SMOOTH TRANSITION
- (29) SHOWER SPRAY UNIT WITH HAND-HELD OR FIXED ABILITIES. FLEX HOSE TO BE 60" MIN.
- CONTROL PANEL WITH LEVER TYPE CONTROLS. 15" MAX. FROM CENTERLINE, LOCATE WITHIN SHADED AREA
- $\langle 31 \rangle$ REFER TO 12/A6.3 FOR BLOCKING INFO.
- (32) INFILL DOOR OPENING WITH TYPE 'X' GYP. BD. (BOTH SIDES) OVER 3 5/8" METAL STUDS @ 16" O.C. ALIGN GYP. BD. WITH ADJACENT WALL.
- $\overline{33}$ EXISTING TOILET TO BE REUSED, CLEAN AND REPAIR TO LIKE NEW.
- $\overline{34}$ EXISTING LAVATORY TO BE REUSED, CLEAN AND REPAIR TO LIKE NEW.
- (35) EXISTING FLOOR DRAIN TO REMAIN.
- (36) EXISTING WASHER HOOK UP TO REMAIN.
- (37) PROVIDE MOISTURE RESISTANT GYP. BD. @ WALLS AND CEILING.
- $\overline{(38)}$ WATER HEATER SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

GENERAL NOTES:

- 1. VERIFY THE LOCATION OF ALL ITEMS WITH OWNER PRIOR TO INSTALLATION.
- 2. VERIFY IF ANY OF THE PROPOSED TOILET ACCESSORIES WILL BE SUPPLIED BY OWNER.
- 3. REFER TO A3.1 & A3.2 FOR INTERIOR DECOR FINISHES.
- 4. GENERAL CONTRACTOR TO INSTALL 5/8" CEMENTITIOUS SHEATHING IN LIEU OF MOISTURE RESISTANT GYPSUM BOARD AT ALL WALL TILE LOCATIONS.
- 5. BLOCKING: REFER TO NOTE #16 UNDER GENERAL NOTES ON SHEET A0.1.
- 6. ALL RESTROOM AND SHOWER ROOM ACCESSORIES SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
- 7. NO EXPOSED COPPER IN RESTROOM.
- 8. DO NOT TILE BEHIND RESTROOM MIRROR.
- 10. REFER TO DETAIL 11/A6.3 FOR ACCESSIBLE SIGNAGE AT RESTROOMS.
- 11. REFER TO PLUMBING DRAWINGS FOR LOCATION OF SLAB REMOVAL AND REPLACEMENT. FIELD VERIFY EXACT LOCATION. REFER TO DETAIL 2/A2.2 FOR ADDITIONAL INFORMATION.







TRILEAF architecture | engineering 1515 DES PERES ROAD, STE 200 SAINT LOUIS, MISSOURI 63131 PHONE | 314-997-6111 FAX | 314-997-8066 CONSULTANT SEAL JEFFREY CHARLES BUMB 100631 1/14/22 UI/ EE¹)82 51/ Č ∞ SUN 3508 LEE' REVISIONS REV. DATE ISSUE DATE: 01.14.22 ΤG **DRAWN BY** CHECKED BY: JCB PROJECT NUMBER: 689411 **ENLARGED TOILET**

ARCHITECT

ELEVATIONS A2.2

ROOM PLAN &

- FLOORING NOTES:
- $\langle 1 \rangle$ TILE FLOOR TRANSITION REFER TO DETAILS 2/A3.1 FOR ADDITIONAL INFORMATION.
- $\langle 2 \rangle$ shower trench drain refer to plumbing drawings.
- $\overline{3}$ TILE (T-4) AT SHOWER FLOOR TYPICAL
- 4 LIGHTBOX PRE-MANUFACTURED MILLWORK TO BE SUPPLIED BY OTHERS. REFER TO DETAILS 1/A6.2 FOR ADDITIONAL INFORMATION.
- $\langle 5 \rangle$ floor transition strip refer to transition type a on sheet 9/A6.3
- $\langle 6 \rangle$ ALIGN FLOORING TRANSITION AT CORNER OF WALL
- \bigcirc FEATURE WALL WITH WALL GRAPHICS SUPPLIED BY OWNER, INSTALLED BY G.C. REFER TO DETAIL 8/A6.2 FOR ADDITIONAL INFORMATION
- $\langle 8 \rangle$ FLOOR TRANSITION STRIP REFER DETAIL 8/A6.3

PAINTING NOTES:

- 1. THE CEILING PAINT COLOR IS INTENDED TO ENCOMPASS THE ROOF FRAMING STRUCTURE. WALL/CEILING TRANSITION PAINT LINE TO BE A STRAIGHT LINE PARALLEL TO THE FINISHED FLOOR ELEVATION THAT EXTENDS 2" BELOW THE LOWEST STRUCTURAL ROOF MEMBER OR MOST COMMON STRUCTURAL ELEMENT IF A SINGLE BEAM IS CONSIDERABLY LOWER THAN THE MAJORITY OF THE MEMBERS. THIS DOES NOT INCLUDE ANY WALL KICKERS OR MISCELLANEOUS FRAMING MEMBERS – WALL PAINT TO EXTEND A MINIMUM OF 12'-0" ABOVE FINISHED FLOOR ELEVATION – VERIFY EXACT TRANSITION WITH OWNER.
- 2. GENERAL CONTRACTOR TO PAINT ALL WALLS TO UNDERSIDE OF ROOF DECK, UNLESS THE FOLLOWING CONDITIONS ARE MET:

 SPACE IS ENTIRELY ENCLOSED BY 4 WALLS WITH SHEATHING TO ROOF DECK.
 - DROPPED CEILING IS INSTALLED THROUGHOUT SPACE.
 NO POSSIBILITY OF VIEWING ANY WALL AREA ABOVE CEILING FROM ANY POINT.
- CEILING PAINT IS TO ACHIEVE 100% COVERAGE WITH NO BLEED THROUGHOUT.
 CONTRACTOR TO PROVIDE PRIMER AND AS MANY COATS AS NECESSARY TO ACHIEVE 100% COVERAGE.
 THIS INCLUDES ALL DUCTWORK, PIPING, CONDUIT AND ATTACHMENTS.
- 4. ENSURE ALL PAINTED SURFACES ACHIEVE COMPLETE COVERAGE ALL SURFACES PREVIOUSLY UNFINISHED TO RECEIVE PRIMER AND TWO (2) COATS OF PAINT MINIMUM – WALL PAINT TO BE EGGSHELL – CEILING PLANK TO BE EGGSHELL.
- 5. GENERAL CONTRACTOR TO PAINT ALL WALLS PRIOR TO INSTALLATION OF ANY WALL FINISHES ON PERPENDICULAR INTERSECTING WALLS TO ALLOW FOR CLEAN FINISHED EDGE.
- 6. IF FIBERGLASS SHOWER INSERTS ARE USED, PAINT WALLS ABOVE.
- DOOR & WINDOW FRAMES TO MATCH ADJACENT WALL FINISHES REFER TO DETAIL 4/A6.3 BE EGGSHELL.

1. GENERAL CONTRACTOR TO INSTALL ALL VINYL FLOORING SO THAT THE PLANK IS ORIENTATED IN THE LONG DIRECTION OF THE ROOM – TYPICAL.

- 2. RUBBER FLOORING IS MANUFACTURED IN ROLLS THAT ARE 4'-0" WIDE, AND IN CUSTOM LENGTHS FOR EACH CLUB. CONTRACTOR IS TO ORDER MATERIAL IN THE PROPER LENGTH TO ELIMINATE BUTT JOINTS WITHIN A 4'-0' WIDE RUN. THE ONLY SEAMS THAT ARE ALLOWED ARE SEAMS BETWEEN THE 4'-0" ROLLS. THIS IS A CUSTOM PRODUCT AND MUST BE ORDERED A MINIMUM OF FOUR (4) WEEKS PRIOR TO INSTALLATION.
- 3. TURF FLOORING IS MANUFACTURED IN ROLLS THAT ARE 6'-0" WIDE, AND IS CUSTOM LENGTHS FOR EACH CLUB. CONTRACTOR IS TO ORDER MATERIAL IN THE PROPER LENGTH TO ELIMINATE BUTT JOINTS WITHIN A 6'-0" WIDE RUN. THE ONLY SEAMS THAT ARE ALLOWED ARE SEAMS BETWEEN THE 6'-0" ROLLS. THIS IS A CUSTOM PRODUCT AND MUST BE ORDERED A MINIMUM OF FOUR (4) WEEKS PRIOR TO INSTALLATION. ORDER TURF IN FOOT INCREMENTS.
- 4. FLOORING AND WALL PROTECTION PANELS TO BE ACCLIMATED TO SPACE CONDITIONS FOR A MINIMUM OF 48 HOURS PRIOR TO INSTALLATION.

- PAINT COLOR

- ALL SURFACES OF

FEATURE WALL TO

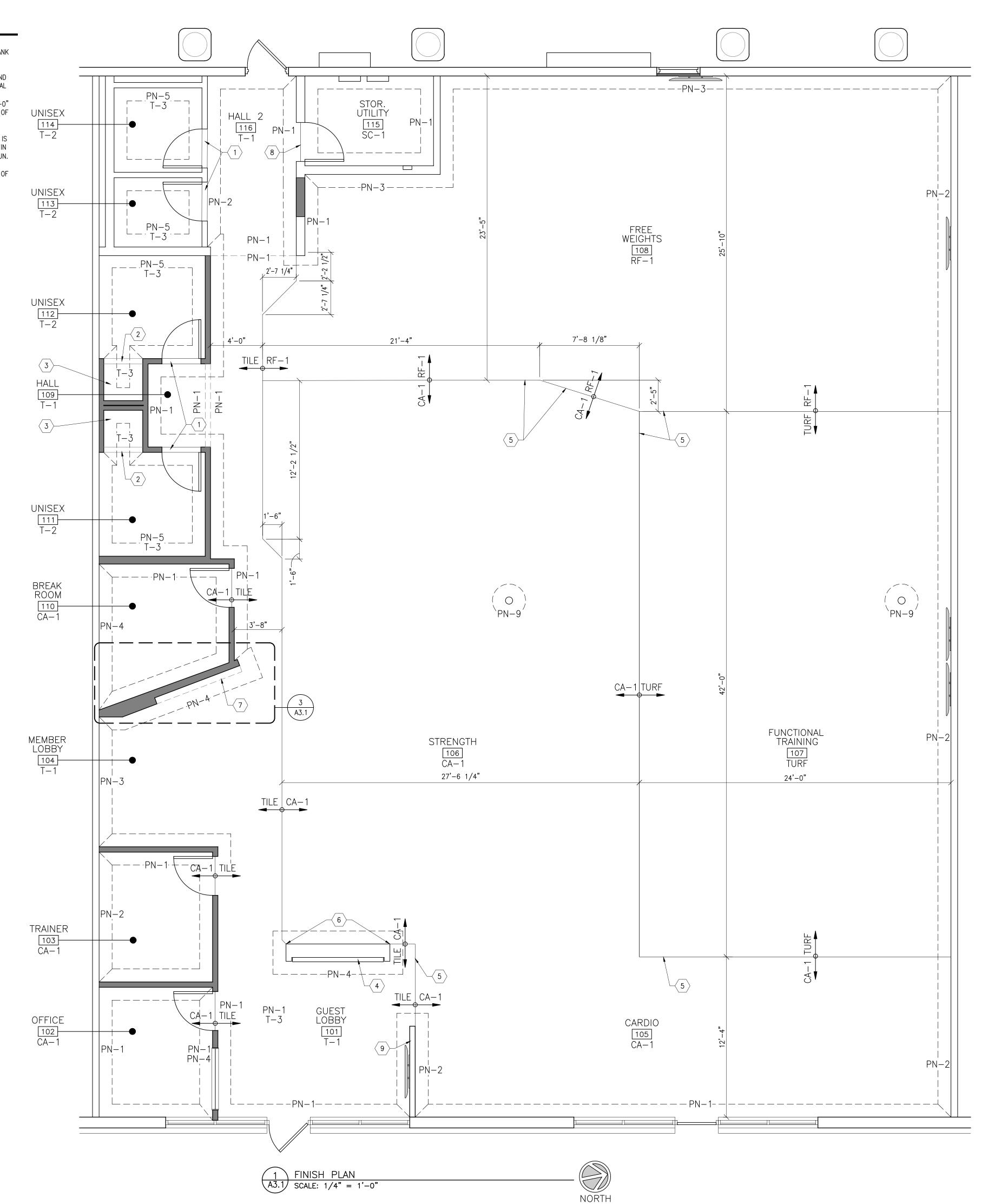
BE PN-4

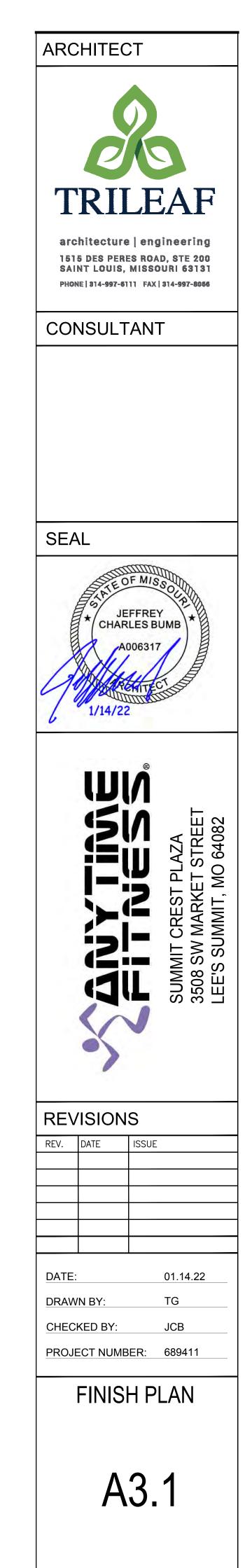
PN-1

CONTRACTOR NOTE: 1. TEXTURED WALLS ARE NOT ALLOWED. 2. VERIFY/ CONFIRM ALL PAINT COLORS AND FINISH SPECS WITH CDM PRIOR TO ORDERING MATERIALS.

GENERAL CONTRACTOR TO PROVIDE FIRE RETARDANT TREATED BLOCKING IN WALL CAVITY AT RESTROOM FIXTURES – REFER TO GENERAL NOTE #16 ON SHEET A3.2 AND DETAIL 12/A2.2.

ALL SURFACES OF FEATURE WALL TO BE PN-4 ALL SURFACES OF FEATURE WALL TO BE PN-4 PN-4 FINISHES AT FEATURE WALL $\begin{array}{c|c} \hline 3 & FINISHES & AT & FLA \\ \hline A3.1 & SCALE: 1" = 1'-0" \end{array}$ ALWAYS START TILE IN CENTER OF ROOM – NEVER HAVE TILE CUT LESS THAN HALF ITS WIDTH IN ROOMS 12" X 24" FLOOR TILE – T–1 HATCHED AREA INDICATES DOOR FRAME & WALL -REFER TO ARCHITECTURAL FLOOR PLAN -GROUT LINE -REFER TO SHEET A3.2 12" X 24" FLOOR TILE - T-2

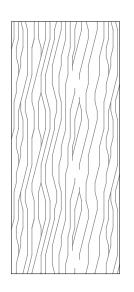




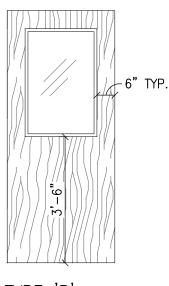
DECOR SCHEDULE COLOR SCHEME: NEW DESIGN

	1	1			1			- DOON	DOOLA					CEILING			
ITEM	SYMBOL	CHOICE	SPECIFICATIONS	REMARKS	FLAME / SMOKE INDEX	INSTALLED BY	SUPPLIED BY	ROOM NUMBER	ROOM NAME	FLOOR		WALL	TYPE		H HEIG	ЭНТ	REMARKS
PAINT	-	1			1			101 (GUEST LOBBY	T-1	VB-1	PAINT, REFER A3.1 FOR COLO	TO DR EXISTIN	G PAINT PG-	10 OPE	N	
PAINT 1	PN-1	REQUIRED	MANUFACTURER: SHERWIN WILLIAMS; NUMBER: SW7662 COLOR: EVENING SHADOW	WALL PAINT: PROMAR 200 – EGGSHELL WALL PRIMER: ZERO VOC B28W2600	EXEMPT PER SECTION 803.2	GC	GC	102 N	IANAGER'S OFFICE	CA-1	VB-1	PAINT, REFER A3.1 FOR COLO		ACT-	1 10'-	-0"	
PAINT 2	PN-2	REQUIRED	MANUFACTURER: SHERWIN WILLIAMS; NUMBER: SW9161 COLOR: DUSTBLU	WALL PAINT: PROMAR 200 – EGGSHELL WALL PRIMER: ZERO VOC B28W2600	EXEMPT PER SECTION 803.2	GC	GC	103	FRAINER	CA-1	VB-1	PAINT, REFER A3.1 FOR COLO		ACT-	1 10'-	-0"	
PAINT 3	PN-3	REQUIRED	MANUFACTURER: SHERWIN WILLIAMS;NUMBER: SW7069; COLOR: IRON ORE	WALL PAINT: PROMAR 200 – EGGSHELL WALL PRIMER: ZERO VOC B28W2600	EXEMPT PER SECTION 803.2	GC	GC	104 N	IEMBER LOBBY	T-1		PAINT, REFER		G PAINT PG-	10 OPE	N	
			MANUFACTURER: SHERWIN WILLIAMS; COLOR: CUSTOM "NEW ANYTIME PURPLE"					105 (CARDIO	CA-1	VB-1	PAINT, REFER	TO EXISTIN	G PAINT PG-	10 OPE	N	
			PROMAR 200 EGG SHELL ACRYLIC LATEX STANDALONE					106 5	STRENGTH	CA-1	VB-1	PAINT, REFER	TO EVISTIN	G PAINT PG-	10 OPE	N	
			ONE GALLON: B20W02653 BASE: DEEP 650186935					107 F	UNCTIONAL TRAINI	NG TURF	VB-1	PAINT, REFER		G PAINT PG-	10 OPE	N	
			CCE COLORANT OZ 32 64 128	1				108 F	REE WEIGHTS	RF-1	VB-1	PAINT, REFER		G PAINT PG-	10 OPE	N	
PAINT 4	 PN-4	REQUIRED	W1–WHITE – – – –	WALL PAINT: PROMAR 200 - EGGSHELL	EXEMPT PER SECTION 803.2	GC	GC	109 H	HALL		VB-1	PAINT, REFER	TO ACT	ACT-	1 10'-	-0"	
			G2-GREEN – – – –	WALL PRIMER: ZERO VOC B28W2600								A3.1 FOR COLO PAINT, REFER					
			L1-BLUE 2 38	-				110 E	BREAK ROOM	CA-1	VB-1	A3.1 FOR COLO	DR ACT	ACT-	1 10'-		
			R3-MAGENTA 6 57	-				111 U	JNISEX	T-2/4	T-2	PAINT PN-5 T-3	GWB	PAINT PN-	9 9'-0		+ BASE HIGH WAINSCOT BULLNOSE EDGE CAP
			Y1-YELLOW -	-				112 U	JNISEX	T-2/4	T-2	PAINT PN-5	GWB	PAINT PN-	9 9'-0		+ BASE HIGH WAINSCOT BULLNOSE EDGE CAP
PAINT 5	PN-5	REQUIRED	MANUFACTURER: SHERWIN WILLIAMS; NUMBER: SW 7649; COLOR: SILVERPLATE	WALL PAINT: PROMAR 200 – EGGSHELL	EXEMPT PER SECTION 803.2	GC	GC	113	JNISEX	T-2	T-2	PAINT PN-5	FXIST. G	WB PAINT PN-	9 8'-0	, 48"	+ BASE HIGH WAINSCOT
PAINT 9	PN-9	REQUIRED	MANUFACTURER: SHERWIN WILLIAMS; NUMBER: SW 7006; COLOR: EXTRA WHITE	WALL PRIMER: ZERO VOC B28W2600 WALL PAINT: PROMAR 200 – EGGSHELL	EXEMPT PER SECTION 803.2	GC	GC					T-3 PAINT PN-5				W/	BULLNOSE EDGE CAP + BASE HIGH WAINSCOT
			MANUFACTURER: SHERWIN WILLIAMS; NUMBER: SW B42W00082 COLOR: WHITE	WALL PRIMER: ZERO VOC B28W2600 WALL PAINT: PROMAR 200 – EGGSHELL				114	JNISEX	T-2	T-2	T-3	, GWD	PAINT PN-	9 8'-0		BULLNOSE EDGE CAP
PAINT 10		REQUIRED	WATERBORNE ACRYLIC DRYFALL	WALL PRIMER: ZERO VOC B28W2600	EXEMPT PER SECTION 803.2	GC	GC	115 5	STOR./UTILITY	SC-1	VB-1	PAINT PN-1 FRP	ACT	ACT-	1 10'-	-0"	
OPTIONAL PAINT GRA								116	HALL	T-1	VB-1	PAINT, REFER		ACT-	1 10'-	-0"	
PROTECTION			SHERWIN WILLIAMS INDUSTRIAL PRE-CATALYZED WATER-BASED EQOXY K45W151 - EGG	SHELLL													
UPGRADED PAINT FO	DR BEST	WALL	SHERWIN WILLIAMS INDUSTRIAL CATALYZED WATER-BASED EPOXY 2 PART – EGGSHELL PART A: B73W361 & PART B: B73V300					DOOF	R & HARE	JVVAF	KE SU	CHED	ULE				
FLOORING / WALL	COVER	ING															
CARPET	CA-1	REQUIRED	MANUFACTURER: PATCRAFT; STYLE(NUMBER): COLOR SWITCHED (802U0); COLOR(NUMBER): DARKER HAZE (69557)	ASHLAR INSTALLATION WITH PATTERN PARALLEL TO LONG DIRECTION OF SPACE	CLASS 1	GC	GC	DOOR RONNUMBER NA	DOM DOOR AME SIZE	DOOR TYPE	TYPE	FRAME MATL.		IG HARDWARI GROUP	E REMARKS	INSTALLI BY	ED SUPPLIED BY
RUBBER	RF-1	REQUIRED	MANUFACTURER: ECORE; STYLE: EVERLAST ROLL NUMBER / COLOR: EL09 PUMPIN' PURPLE		EXEMPT PER SECTION 804	GC	GC	101 GUES	T	EXIST.)" STORE	EVIST	EXIST.	MRF. –	6	1.2	GC	TWIN CITY HARDWARE
PURPLE TURF	TURF	REQUIRED	MANUFACTURER: ECORE; STYLE: CUSTOM; NUMBER / COLOR: LMNT 000218 LAMINATE L1 BETTER PURPLE		CLASS 1	GC	GC		GER'S , o, , ,	FRONT	1	HM	PT. –	3	2,3	GC	TWIN CITY HARDWARE
TRANSITION STRIP	TS-1	REQUIRED	MANUFACTURER: JOHNSONITE; INSERT NUMBER: CE-40; COLOR: BLACK	CONTOUR INSTALLATION: MTC-00-A STRAIGHT INSTALLATION: MT-00-A	CLASS 1	GC	GC		, <u>E</u>					7			
PORCELAIN	T_1	PRIMARY	MANUFACTURER: DALTILE; NUMBER / COLOR: VL70 AMPLIFY BLACK	GROUT: MAPEI FLEXCOLOR CQ; COLOR #47 CHARCOAL; INSTALLED	EXEMPT PER SECTION 804	GC	GC	103 TRAIN				HM	PT. –	S	2,3	GC	TWIN CITY HARDWARE
TILE 1	+	OPTION	STYLE: VOLUME 1.0 – 12"x24" MANUFACTURER: DALTILE; NUMBER / COLOR: VL70 AMPLIFY BLACK; STYLE: VOLUME 1.0 – 12"X24"; COVE BASE: DILEX-AHK 3/8" ALUM SATIN #9999544080; OUTSIDE: 3/8"	WITH VERTICAL BRICK NARROW EDGE PATTERN (50% OVERLAP)				110 BREA ROOM	K 3'-0"x7'-0)" В	1	НМ	PT. –	3	2,3	GC	TWIN CITY HARDWARE
PORCELAIN TILE 2	T-2	REQUIRED	ALUM SATIN #9999544026; INSIDE: 3/8" ALUM SATIN #9999542286	WITH VERTICAL BRICK NARROW EDGE PATTERN (50% OVERLAP)	EXEMPT PER SECTION 804	GC	GC	111 UNISE	EX 3'-0"x7'-0)" A	1	НМ	PT. –	2	2,3	GC	TWIN CITY HARDWARE
PORCELAIN	 T-3	REQUIRED	MANUFACTURER: DALTILE; NUMBER/COLOR: #VI12/8241P2 GRAY; STYLE: VOLUME 1.0 – 8"X24"; SCHLUTER WALL TRIM (TOP): SCHIENE EDGE TRIM 3/8" ALUM SATIN	GROUT: MAPEI FLEXCOLOR CQ; COLOR: #77 FROST; 48" MIN.	EXEMPT PER SECTION 804	GC	GC	112 UNISE	X 3'-0"x7'-0)" A	1	НМ	PT. –	2	2,3	GC	TWIN CITY HARDWARE
TILE 3		REQUIRED	#9999533553; COVE BASE: DILEX–AHK 3/8" ALUM SATIN #9999544080; OUTSIDE: 3/8" ALUM SATIN #9999544026; INSIDE: 3/8" ALUM SATIN #9999542286	WAINSCOT INSTALLED WITH BRICK WORKS PATTERN" (33% OVERLAP)	EXEMPT PER SECTION 804	GC	GC	113 UNISE			1	НМ	PT _	-	2,3	GC	TWIN CITY HARDWARE
PORCELAIN	T_4		MANUFACTURER: DALTILE; NUMBER/COLOR: D311 EBONY; STYLE: KEYSTONE MOSIAC 2"X2"; COVE BASE: DILEX-AHK 3/8" ALUM SATIN #9999544080; OUTSIDE: 3/8" ALUM	GROUT: MAPEI FLEXCOLOR CQ; COLOR #47 CHARCOAL										2			
TILE 4	1-4	REQUIRED	SATIN #9999544026; INSIDE: 3/8" ALUM SATIN #9999544080; OUTSIDE: 3/8" ALUM	DO NOT USE IF FIBERGLASS INSERT IS USED	EXEMPT PER SECTION 804	GC	GC	114 UNISE	X 3'-0"x7'-0	D" A		HM	PT. –	2	2,3	GC	TWIN CITY HARDWARE
CONCRETE	SC-1	REQUIRED	SEALED CONCRETE		EXEMPT PER SECTION 804	GC	GC	115 STOR./	/UTILITY 3'-0"x7'-0)" A	1	НМ	PT. –	4	2,3	GC	TWIN CITY HARDWARE
CONCRETE	STC	ALTERNATE OPTION	AMERIPOLISH 3D HS DENSIFIER; AMERIPOLISH SURE LOCK DUE / COLOR: GRAY AMERIPOLISH 3D SP STAIN PROTECTOR CONCRETE; (STAINED) FLOOR FINISH		EXEMPT PER SECTION 804	GC	GC	116 HALL	2 3'-0"x7'-0)" EXIST.	EXIST.	НМ	PT. –	5	1,2	GC	TWIN CITY HARDWARE
WALL COVERING																	
BASE	VB-1	REQUIRED	MANUFACTURER: JOHNSONITE; NUMBER: 40; COLOR: BLACK; STYLE: 6" VINYL COVE		CLASS 2	GC	GC	HARD	WARE G	ROU	PS						
FIBERGLASS REINFORCED PANEL	FRP-1	REQUIRED	MANUFACTURER: MARLITE; NUMBER: P100; STYLE: PEBBLE (WHITE)		CLASS C	GC	GC										
CEILING								<u>GROUP #1</u>					<i>II A</i>				
CEILING TILE	ACT-1	REQUIRED	MANUFACTURER: USG; ITEM: 76575 2' X 2' X 3/4"; STYLE: ECLIPSE CLIMAPLUS SQ (WHITE); SUSPENSION SYSTEM: DX/DXL24 (WHITE); EDGE TRIM: COMPASSO 12" TRIM ELITE (FLAT WHITE)	IF CEILING TILE IS USED, MAY NOT BE APPLICABLE TO ALL LOCATIONS	CLASS A	GC	GC	NOT USED					ËES DBOLT W/TH	RU BOLTS			
MISCELLANEOUS	·				·	·						(1) KIC	(PLATE (DOWN HOLD	FR			
PLASTIC LAMINATE	L-1	REQUIRED	MANUFACTURER: ARBORITE; NUMBER: P-322 CA; STYLE: JAIPUR ONYX	NOT APPLICABLE FOR ALL CLUBS - WALL CAP & WINDOW SILL	CLASS A	GC	GC					(1) WAL	L STOP				
COVER PLATES & DEVICES	1		LIGHT GRAY			GC	GC					(1) SILE	NCER				
C DEVICES		1				1		<u>GROUP #2</u>									

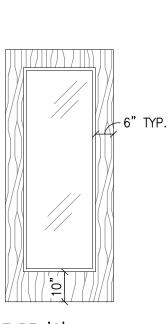
DOOR TYPES:



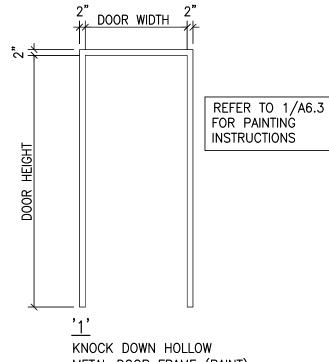
<u>type</u> 'A' 1 3/4" WOOD SOLID CORE FLUSH WOOD DOOR (CLEAR SEAL)



<u>type</u> 'B' 1 3/4" WOOD SOLID CORE FLUSH WOOD DOOR (CLEAR SEAL) W/ 1/4" TEMP GLAZING WINDOW 24"W x 36"H



<u>type 'C'</u> 1 3/4" WOOD SOLID CORE FLUSH WOOD DOOR (CLEAR SEAL) W/ 1/4" TEMP GLAZING WINDOW 24"W x 68"H



METAL DOOR FRAME (PAINT)

FRAME TYPES:

<u>GROUP #5</u>

(1) RIM EXIT DEVICE REUSE REMAINDER OF HARDWARE

<u> GROUP #6</u>

(1) RIM EXIT DEVICE NIGHT LATCH (1) ELECTRIC RIM DEVICE NIGHT LATCH

(1) RIM CYLINDER

(1) CYLINDER CORE

(1) PULLS, PROVIDE NEW IF NOT EXISTING (1) POWER SUPPLY

REMAINDER OF HARDWARE THROUGH TWIN CITY HARDWARE (PREFERRED VENDOR) OR APPROVED

REFER TO DETAIL 6/A6.3

1. REPAIR OR REPLACE DAMAGED HARDWARE TO "LIKE-NEW" CONDITION.

3. DOORS EQUIPPED WITH A CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. 4. THE FORCE REQUIRED TO ACTIVATE ANY CONTROL SHALL NOT EXCEED 5 LBS.

REMARKS:

1. VERIFY CONDITION OF DOOR HARDWARE, THRESHOLD AND FRAME ARE IN GOOD WORKING ORDER - REPAIR/REPLACE AS REQUIRED. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. 3. ALL NEW DOOR FRAMES TO BE 2" MIN. FROM ADJACENT WALL.

(3) HINGES

) MORTISE LOCK WITH INDICATOR 1) CLOSER

(1) KICKPLATE

- (1) WALL STOP (1) DOUBLE ROBE HOOK
- (1) SILENCER

<u>group #3</u>

- (3) HINGES (1) DEADBOLT W/THRU BOLTS
- (1) KICKPLATE
- (1) WALL STOP

- - EQUAL

(1) SILENCER

NOTES:

REKEY EXISTING LOCKS PRIOR TO TENANT TAKEOVER.

ARCHITECTURAL GENERAL NOTES:

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE CODES, LOCAL RESTRICTIONS, ORDINANCES AND LAWS. EACH CONTRACTOR OR SUBCONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF ALL APPLICABLE LAWS AND ORDER OF PUBLIC OFFICIALS WITH JURISDICTION FOR SAFETY OF PERSONS/PROPERTY. MAINTAIN FIRE RESISTANCE RATING FOR ALL EXISTING TENANT DEMISING WALLS.
- 2. DIMENSION NOTES A. ALL EXTERIOR WALLS DIMENSIONED TO EXTERIOR OF EXISTING STRUCTURE, UNLESS NOTED OTHERWISE.
- ALL NEW STUD WALL ASSEMBLY OPENINGS ARE NOMINAL DIMENSIONS. C. ALL DIMENSIONS ARE TO FACE OF WALL ASSEMBLY, UNLESS NOTED OTHERWISE.
- 3. THE GENERAL CONTRACTOR AS WELL AS ALL SUBCONTRACTORS SHALL VISIT THE SITE; VERIFY ALL DIMENSIONS BEFORE SUBMITTING A BID. NOTIFY THE OWNER OF ANY DISCREPANCIES OBSERVED, OBTAIN ALL REQUIRED PERMITS, AND VERIFY ALL SITE CONDITIONS PERTAINING TO THIS PROJECT PRIOR TO SUBMISSION OF BIDS. ANY DISCREPANCIES FOUND DURING SITE INVESTIGATION ARE TO BE REPORTED TO OWNER IN WRITING PRIOR TO BID SUBMISSION, G.C. TO ENSURE STRUCTURE IS NOT ALTERED OR DAMAGED WITH EXCEPTION OF MODIFICATIONS SHOWN ON DRAWINGS. ALL INSTALLATIONS AND ALL CONNECTIONS TO EXISTING BUILDING MECHANICAL SYSTEMS SHALL BE COORDINATED WITH AND PERFORMED UNDER THE SUPERVISION OF THE LANDLORD'S REP. VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK. ALL EXISTING CONDITIONS, STRUCTURAL AND MECHANICAL CONNECTIONS TO ALL EXISTING BUILDING SERVICES MUST BE FIELD VERIFIED PRIOR TO SUBMISSION OF BIDS. ANY DISCREPANCIES SHALL BE REFLECTED AND NO ADJUSTMENT TO BID PRICE SHALL BE MADE AFTER BID SUBMISSION. SUBMISSION OF BID SHALL BE UNDERSTOOD AND CONSTRUED AS CONTRACTOR HAVING VERIFIED ALL EXISTING CONDITION WHETHER OR NOT SHOWN ON DRAWINGS AND HAVING TAKEN INTO ACCOUNT ANY ADJUSTMENT NECESSARY TO FULFILL THE DESIGN INTENT IN FULL AND COMPLETELY. G.C. TO COMPLY WITH OWNER'S RULES AND REGULATIONS REGARDING CONSTRUCTION WITHIN THE BUILDING. G.C. & ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE BASE BUILDING AND TO VERIFY WITH THE CLIENT BEFORE MODIFYING OR ATTACHING NEW CONSTRUCTION TO BASE BUILDING. G.C. SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK. G.C. TO COORDINATE LAYOUT, ROUTING, AND INSTALLATION OF ALL NEW MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING WORK WITH EXISTING MEP/FP SYSTEMS, AND WITH EXISTING STRUCTURE TO REMAIN. REPORT ALL DISCREPANCIES TO OWNER IN WRITING PRIOR TO SUBMITTING BID PACKAGE. EACH CONTRACTOR OR SUBCONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, AND LICENSES REQUIRED FOR PROPER EXECUTION OF THEIR PORTION OF THE WORK. G.C. TO ENSURE THAT A COMPLETE SET OF CONSTRUCTION DOCUMENTS IS GIVEN TO ALL SUBCONTRACTORS PRIOR TO BID SUBMISSION. G.C. SHALL VERIFY THE LOCATION OF ALL UTILITIES. POINTS OF ACCESS TO THE SITE AND MATERIAL STAGING AREA LOCATIONS FOR THE CONTRACTOR SHALL BE APPROVED BY THE OWNER PRIOR TO THE TIME THE CONTRACTOR IS GIVEN NOTICE TO PROCEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY DRIVES, FENCING, BARRICADES, LIGHTING, ETC. AS NECESSARY TO PROVIDE SAFEGUARDS AND EGRESS IN AND OUT OF THE EXISTING FACILITIES AND PARKING DURING CONSTRUCTION. NORMAL BUSINESS OPERATIONS CANNOT BE INTERRUPTED DURING CONSTRUCTION WITHOUT PRIOR COORDINATION AND CONSENT OF THE OWNER.
- 4. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED AND SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONTINUING WITH THE AFFECTED PORTIONS OF THE WORK.
- 5. ANY DIMENSIONS, DETAILS, NOTES OR SYMBOLS THAT APPLY TO ONE UNIT, APPLIES TO ALL UNITS LIKE SITUATIONS, UNLESS NOTED OTHERWISE.
- 6. THE STATED DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE THE DRAWINGS. THE OWNER SHOULD BE NOTIFIED OF ANY DISCREPANCIES. "LINE OF STRUCTURE" AS SHOWN AT THE HEAD CONDITIONS OF EACH PARTITION TYPE IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE THE EXACT CONSTRUCTION CONDITION. RATED PARTITIONS ARE TO TERMINATE AT STRUCTURAL MEMBERS WITH A FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE WALL RATING, WHERE REQUIRED, APPROPRIATE FRAMING AND DRYWALL IS TO BE INSTALLED TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS, SUCH AS PIPING OR DUCTWORK, TO MAINTAIN FIRE RESISTANCE RATING. NON-RATED PARTITIONS THAT CONTINUE TO STRUCTURE ARE TO TERMINATE AT APPROPRIATE LOCATIONS TO MAINTAIN THE INTENT OF A CONTINUOUS PLANE OF ONE-LAYER OF GYPSUM BOARD SHALL SEAL TIGHT TO DECK AT INSIDE FACE OF WALL FRAMING TO MINIMIZE AIR & MOISTURE INFILTRATION TO THE BUILDING INTERIOR. ALL SHALL BE 5/8" FIRE RATED TYPE, UNLESS NOTED OTHERWISE. FIRESTOP TO BE PROVIDED AT PENETRATIONS THROUGH RATED PARTITIONS AS SPECIFIED OR AS OTHERWISE REQUIRED BY THE ASSEMBLY RATING.
- 7. DUCT PENETRATIONS OF FIRE RATED CORRIDORS, WALLS AND CEILINGS SHALL USE FIRE DAMPERS AS APPLICABLE CODES, ORDINANCES AND LAWS REQUIRE.
- 8. PROVIDE ALL REQUIRED FIRE BLOCKING IN ACCORDANCE WITH APPLICABLE CODES, ORDINANCES AND LAWS.
- 9. THE INSTALLATION OF AUTOMATIC FIRE SPRINKLER SYSTEMS SHALL COMPLY WITH APPLICABLE CODES. ORDINANCES AND LAWS. 10. VERIFY THAT ALL EXISTING EXTERIOR LANDINGS ARE FLUSH WITH FINISHED FLOOR AND SLOPE
- AWAY FROM THE FACE OF BUILDING TO PROVIDE POSITIVE DRAINAGE, TYPICAL.
- 11. WHERE DEMOLITION OCCURS ADJACENT TO EXISTING CONSTRUCTION TO REMAIN, PATCH AND REPAIR ADJACENT CONDITIONS FOR A UNIFORM APPEARANCE.
- 12. ALL EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. A READILY VISIBLE SIGN SHALL BE ADJACENT TO THE DOORWAY STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS".
- 13. VERIFY LOCATION. SIZE AND WALL THICKNESS REQUIRED TO RECESS MECHANICAL AND ELECTRICAL ITEMS AND MAINTAIN FIRE RATING REQUIREMENTS OF THE WALL (IF REQUIRED) AT THESE BUILT-INS: UNIT HEATERS, CONVECTORS, ELECTRICAL PANELS, FIRE EXTINGUISHERS, CABINETS, DUCTS, PIPING AND ALL OTHER SUCH RECESSES.
- 14. USE ONLY NON-CORROSIVE FASTENERS ON ANY PRESSURE TREATED LUMBER. WHERE EXISTING INSULATION IS REMOVED OR MISSING, PATCH AND REPLACE INSULATION TO MATCH EXISTING CONDITIONS AND MAINTAIN REQUIRED R-VALUES.
- 15. PROVIDE ALL SIGNAGE REQUIRED BY APPLICABLE CODES, ORDINANCES AND LAWS.
- 16. GENERAL CONTRACTOR REQUIRED TO PROVIDE NECESSARY BLOCKING FOR ALL OWNER PROVIDED SIGNAGE, WALL-MOUNTED FIXTURES AND FURNISHINGS, AND SUPPORTS, G.C. SHALL VERIFY THE CHARACTERISTICS OF ALL EQUIPMENT, MILLWORK OR OTHER ITEMS BEING FURNISHED BY OWNER OR OWNER'S CONTRACTORS FOR WHICH G.C. IS RESPONSIBLE FOR INSTALLING. G.C. ASSUMES COMPLETE RESPONSIBILITY WHEN OWNER FURNISHED ITEMS ARE ACCEPTED AND RECEIVED BY G.C. ALL LIGHT SWITCHES, THERMOSTATS, SECURITY ALARMS, ELECTRICAL OUTLETS, ETC. MUST BE MOUNTED TO MEET ALL GOVERNING ACCESSIBILITY REQUIREMENTS FOR FLOOR & HEIGHT CLEARANCES AND ONE HAND GRASPING OPERATION.
- 17. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
- 18. CLEANING: THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF CONSTRUCTION DEBRIS AND TRASH. REMOVE ALL COMBUSTIBLE RUBBISH DURING CONSTRUCTION FROM THE BUILDING CONTINUOUSLY AND DISPOSE OF IN A LEGAL MANNER.
- 19. AT THE TIME OF BUILDING COMPLETION, BUILDING IS TO BE THOROUGHLY CLEANED PRIOR TO TURNOVER TO OWNER, INCLUDING BUT NOT LIMITED TO VERTICAL AND HORIZONTAL SURFACES, DUCTS (INSIDE AND OUT), BAR JOIST, BEAMS & PIPING IN EXPOSED CEILINGS AS WELL AS NEW FILTERS IN ALL HVAC UNITS.
- 20. REFER TO ENGINEERED CONSTRUCTION DOCUMENTS BY OTHERS FOR ADDITIONAL PERTINENT INFORMATION.
- 21. FOR ALL AIR CONDITIONING, EXHAUST & SUPPLY FANS, HVAC & REFRIGERATION EQUIPMENT CURBS, GENERAL CONTRACTOR SHALL PROVIDE & INSTALL SUITABLE BLOCKING IN WALLS & CEILINGS TO SUPPORT FIXTURES, EQUIPMENT & CANOPIES.

TRILEAF architecture | engineering 1515 DES PERES ROAD, STE 200 SAINT LOUIS, MISSOURI 63131 PHONE 314-997-6111 FAX 314-997-8066 CONSULTANT SEAL OF MIS. JEFFREY CHARLES BUMB A006317 1/14/22 EE⁻)82 ">\// ک LAZ، ET STR MO ۴ – 12111 CREST MARKI IMMIT, F ≥ SUS SUMN 508 EE'S E 33 REVISIONS REV. DATE ISSUE DATE: 01.14.22 ΤG **DRAWN BY** CHECKED BY: JCB PROJECT NUMBER: 689411 SCHEDULES A3.2

ARCHITECT

- NEW 2x2 SUSPENDED ACOUSTIC CEILING TILE. CEILING GRID TO BE CENTERED IN ROOM AS SHOWN ON PLAN. U.N.O.
- $\langle 2 \rangle$ center light above shower as shown on plan
- $\langle \overline{3} \rangle$ 5/8" TYPE "X" GWB ON 6" METAL JOISTS @ 24"O.C.
- (4) AIR HANDLING UNITS ABOVE, REFER TO MECHANICAL DRAWINGS.
- $\langle 5 \rangle$ ACCESS TO MEZZANINE. VERIFY PROPER WORKING ORDER. F

ELECTRICAL NOTES:

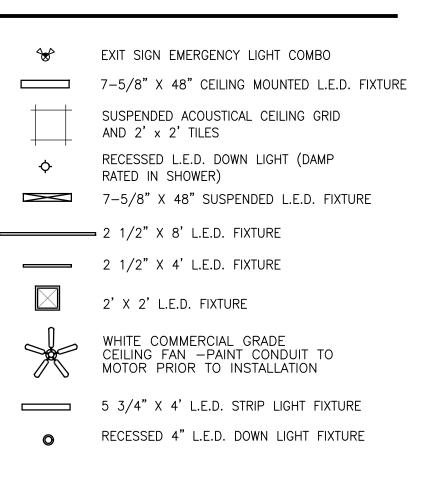
- 1. CONTRACTOR TO INSTALL OWNER SUPPLIED EMERGENCY 911 PHONE, INCLUDING CONNECTION TO LV / TELECOMMUNICATIONS SYSTEM AND / OR DEMARCATION POINT. VERIFY LOCATIONS WITH OWNER.
- 2. CONTRACTOR TO PROVIDE WIRING / CONNECTION FOR CABLE TELEVISION, TELEPHONE AND DATA FROM THE DEMARCATION POINTS(S) OF USE / TERMINATION. THIS INCLUDES, BUT NOT LIMITED TO TELEPHONES AND COMPUTERS IN THE OFFICE, AND , IF APPLICABLE, THE VIRTUAL TRAINING KIOSK SYSTEM. REFER TO ELECTRICAL DRAWINGS.
- 3. ALL TREADMILLS TO HAVE DEDICATED CIRCUITS AND SHOWN AS THUS ON THE PANEL SCHEDULE. REFER TO ELECTRICAL DRAWINGS.
- 4. CEILING FAN CONTROLS NEED TO BE EITHER REMOTE CONTROLLED OR WIRED BACK TO A BREAKER AND ROOM SPECIFIC WALL SWITCH SO THEY CAN BE TURNED OFF FOR CLEANING.

GENERAL NOTES:

- CONTRACTOR TO INSTALL SPIRAL DUCT IN OPEN AREAS AND TO BE MANUFACTURED IN A QUALIFIED METAL SHOP SPLIT DUCTS ASSEMBLED ON SITE ARE NOT ALLOWED USE REGISTERS THAT DISTRIBUTE AIR DIRECTLY FROM THE DUCT, GOOSENECK EXTENSIONS ARE NOT ALLOWED.
- 2. IF RESTROOM WALLS STOP SHORT OF THE EXISTING ROOF DECK, GENERAL CONTRACTOR MUST PROVIDE A GYPSUM BOARD CEILING AT 9'-0" AFF OR HIGHER - SUSPENDED GYPSUM BOARD FRAMING SYSTEMS ARE NOT ALLOW.
- 3. GENERAL CONTRACTOR TO INSTALL CEILING MOUNTED FIXTURES AS PER ELECTRICAL PLAN FIELD VERIFY EXISTING CONDITIONS TO ENSURE MOUNTING ELEVATION WILL PROVIDE EVEN DISTRIBUTION OF LIGHTING WITHOUT INTERRUPTION AND SHADOWS FROM EXISTING STRUCTURAL ELEMENTS AND / OR PROPOSED DUCTWORK - COORDINATE AS REQ'D. -MINIMUM ELEVATION OF FIXTURES TO BE 10'-6" AFF.
- PAINT ALL CONDUIT AND MATERIAL TO MATCH CEILING COLOR PRIOR TO INSTALLATION THROUGHOUT.
- 5. PROTECT / RELOCATE EXISTING EMERGENCY EXIT LIGHTING AS REQUIRED REFER TO ELECTRICAL DRAWINGS.
- 6. PAINT ALL EXPOSED CEILING (STRUCTURAL MEMBERS / PIPES / DUCTS, ETC) PL-10.
- 7. CEILING WITH "OPEN TO DECK" AREAS PAINT FROM DECK DOWN WALL TO
- 2'-BELOW LOWEST POINT VERIFY WITH CORPORATE PRIOR TO PAINTING. 8. WHEN A SPRINKLER SYSTEM IS PROVIDED, THE SPRINKLER HEADS SHALL BE

REFLECTED CEILING LEGEND:

CENTERED IN THE LAY-IN CEILING TILE, (TYP.)



SUSPENDED CEILING NOTES:

- 1. ALL HANGER & BRACING WIRES SHALL BE SECURED TO MAIN RUNNERS.
- 2. PROVIDE TRAPEZE OF OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

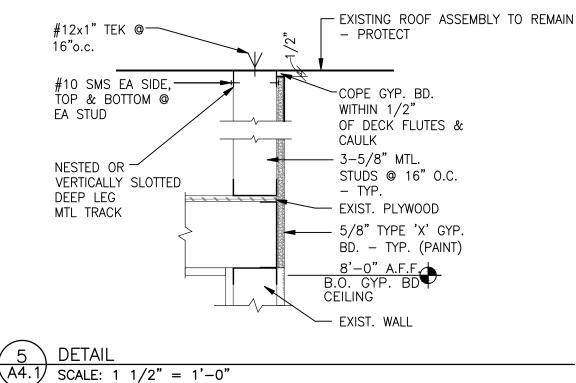
MAIN SUPPORTS:

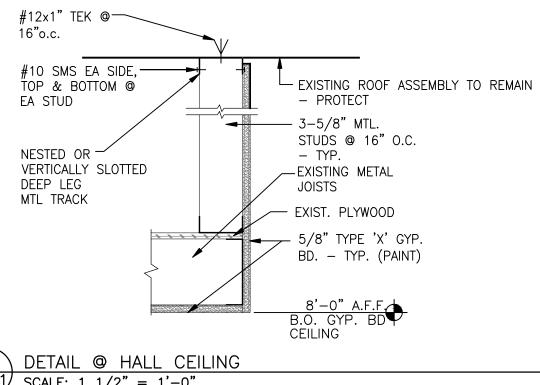
12 GAUGE HANGER WIRES AT 4'-0" EACH WAY.

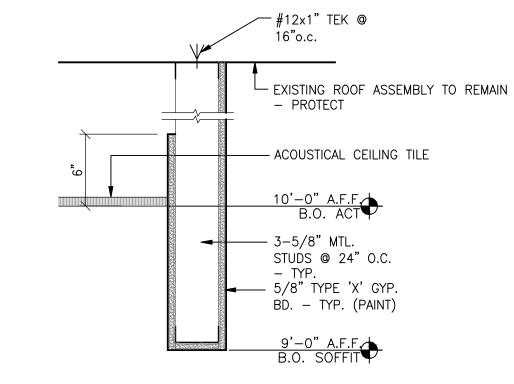
PERIMETER WIRES: 12 GAUGE PERIMETER WIRES INSTALLED WITHIN 8" OF WALL AT EACH MAIN AND CROSS TEE TO WALL JUNCTURE.

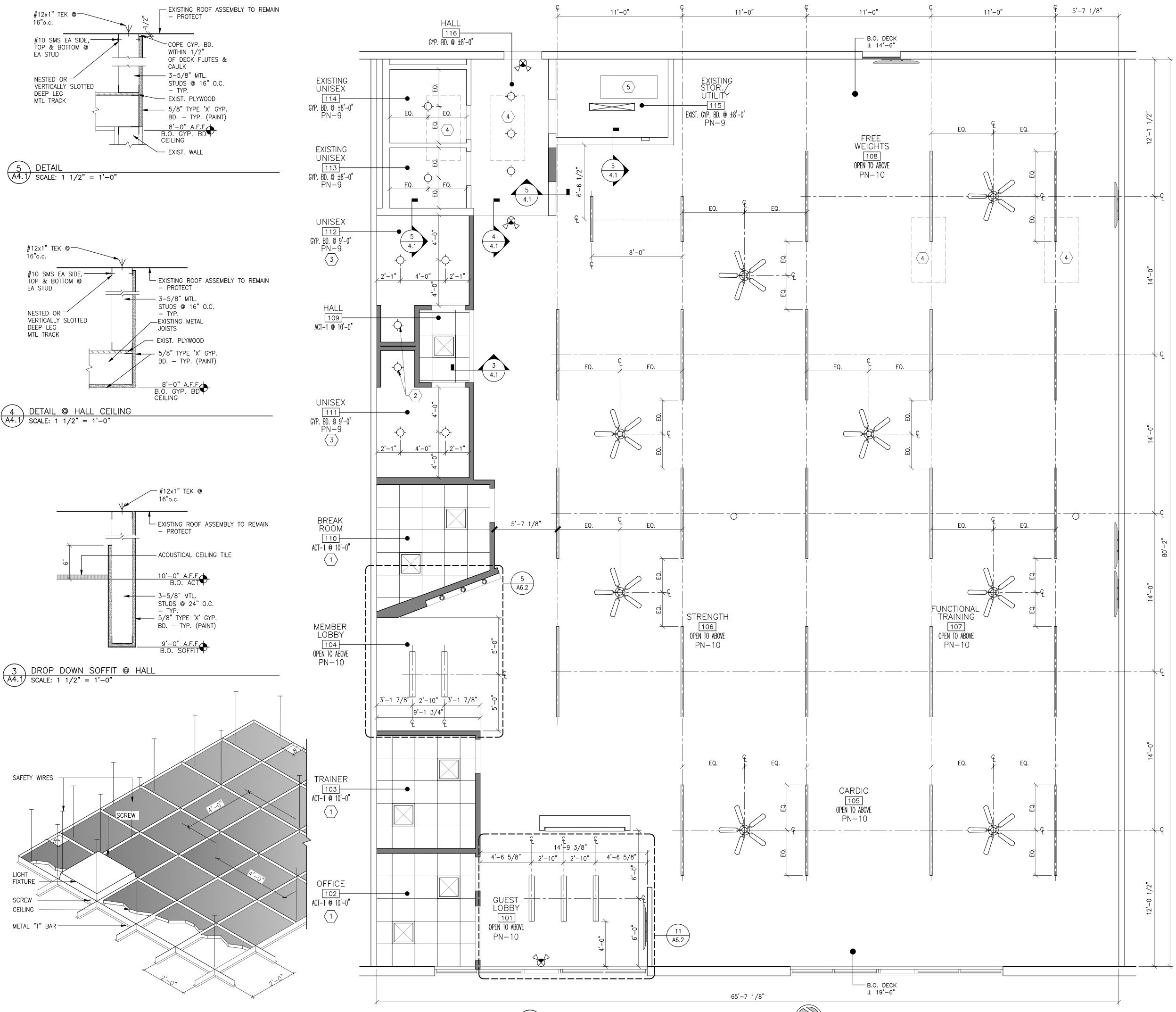
LIGHT FIXTURE SUPPORT:

12 GAUGE WIRES ATTACHED TO MAIN OR CROSS TEES WITHIN 3" OF FIXTURE AT EACH CORNER. 12 GAUGE SAFETY WIRES ATTACHED TO FIXTURE (OPPOSITE CORNERS), EXTENDING TO STRUCTURE ABOVE. INSTALL ON SCREW AT OPPOSITE CORNERS OF FIXTURE TO MAIN OR CROSS TEES.



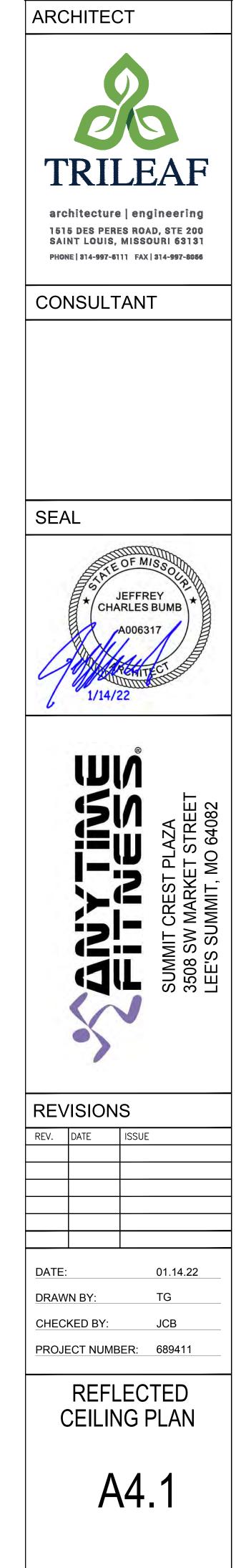


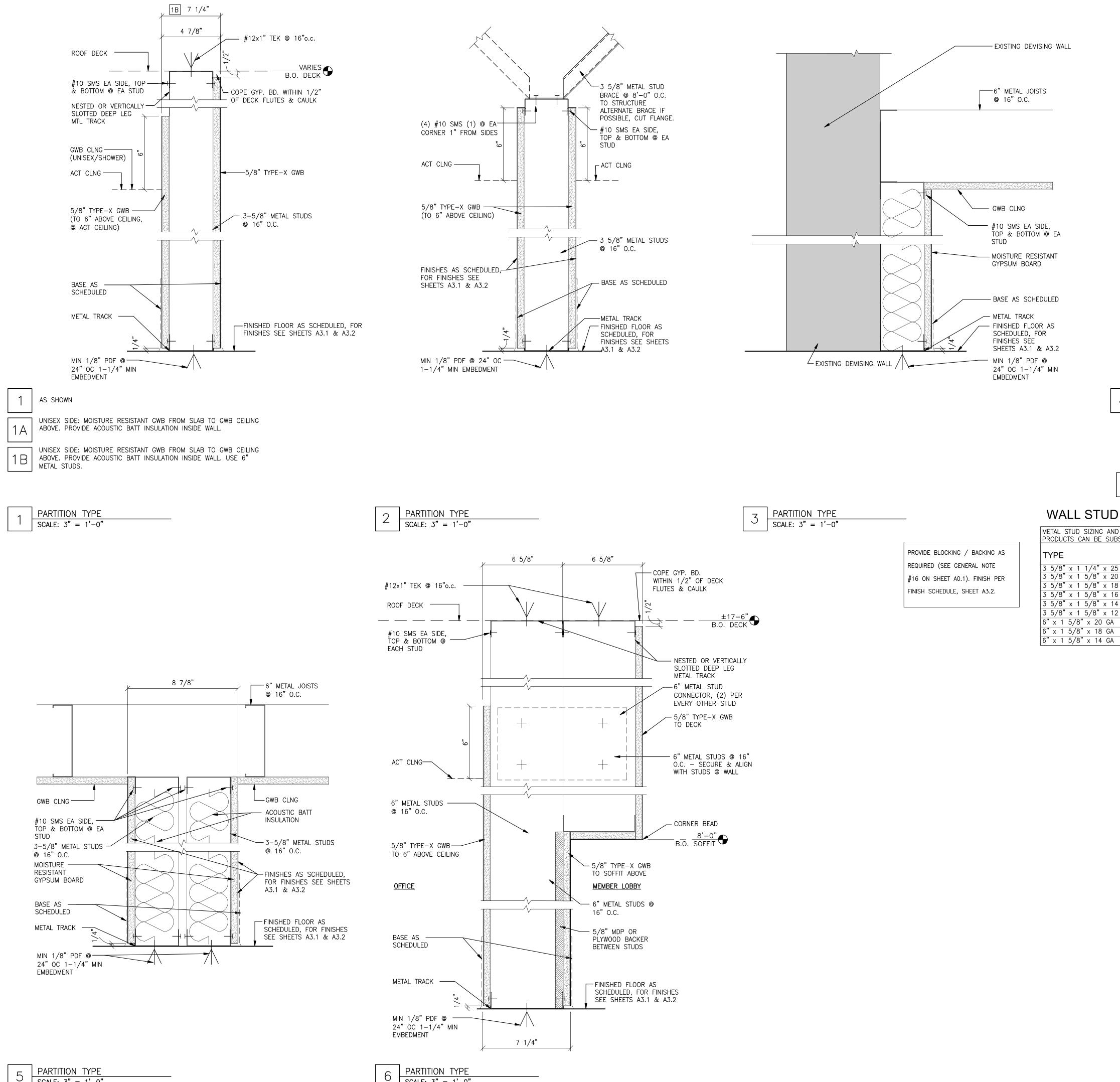




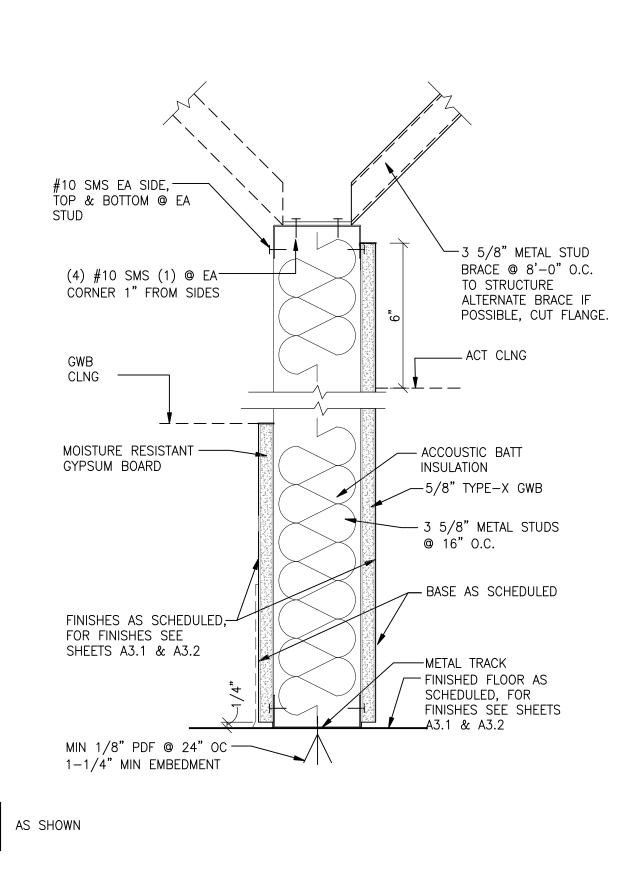


NORTH





Б	PARTITION TYPE
5	SCALE: $3'' = 1' - 0''$



٨	PARTITION TYPE
4	SCALE: $3'' = 1' - 0''$

WALL STUD GAUGES & HEIGHTS:

600S162-33

600S162-43

600S162-54

	ND SPAN IS BASED OFF CLARK–DIETRICH PRODUCTS. EQUIVALENT UBSTITUTED						
	DESIGNATION	5 PSF L/120 M	IAX. CLEAR HEIGHT				
	DESIGNATION	16"O.C.	24" O.C.				
25 GA	362PDS1125-30	23'-4"	20'-5"				
20 GA	362S162-33	22'-2"	18'-9"				
18 GA	362S162-43	24'-1"	21'-0"				
16 GA	362S162-54	25'-10"	22'-6"				
14 GA	362S162-68	27'-7"	24'-1"				
12 GA	362S162-97	30'-5"	26'-7"				

30'-9"

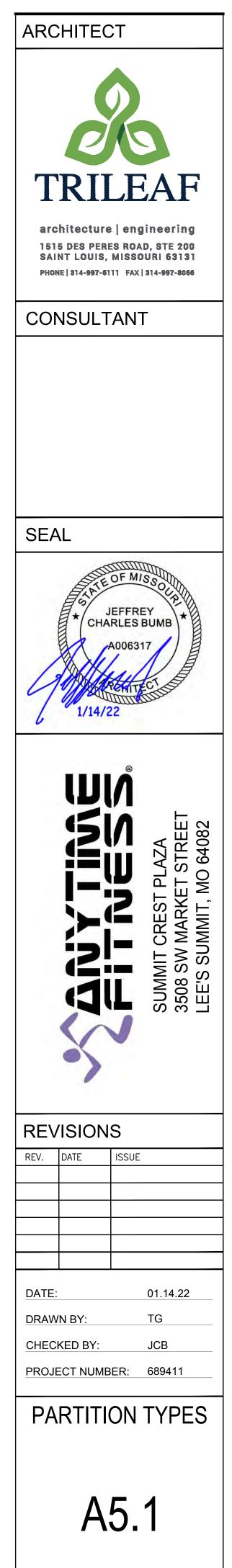
35'-9"

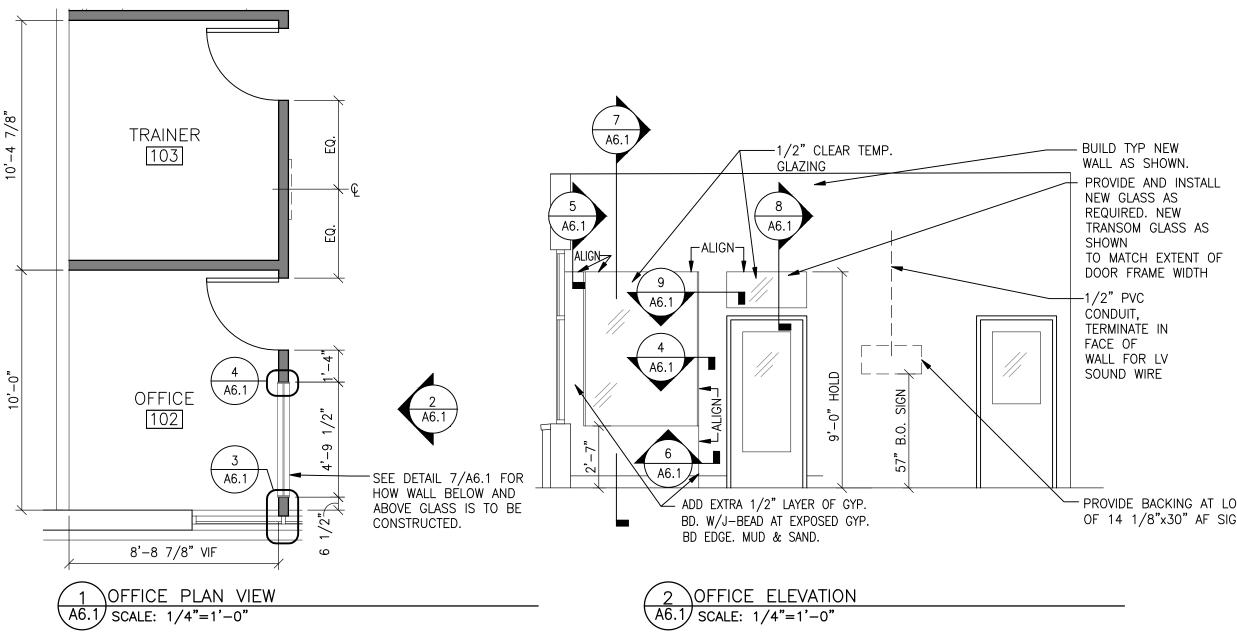
38'-4"

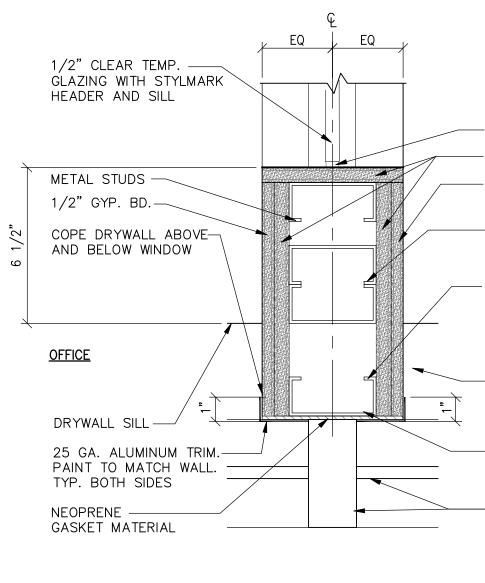
25'-2"

31'-1"

33'-6"





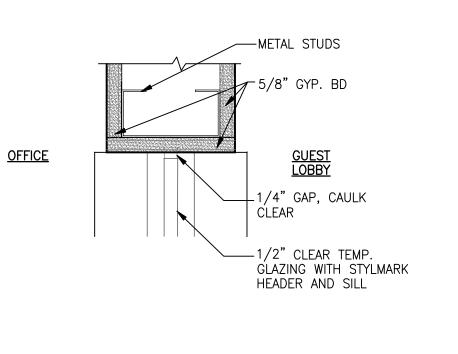


1/4" GAP, CAULK CLEAR - 5/8" GYP. BD - 1/2" GYP. BD

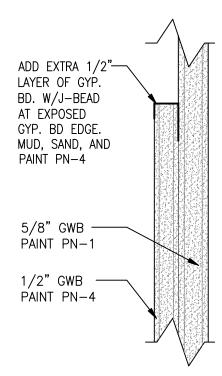
DOUBLE STUD. ANCHOR TO WALL ABOVE AND BELOW STOREFRONT SINGLE STUD AT END OF WALL. ANCHOR TO WALL TRACKS ABOVE AND BELOW

<u>GUEST_LOBBY</u> EXISTING SILL BELOW STOREFRONT GLAZING, TRIM SILL AT LOCATION OF NEW WALL -DO NOT ANCHOR METAL STUD TO EXISTING MULLION

EXISTING STOREFRONT MULLION AND GLAZING

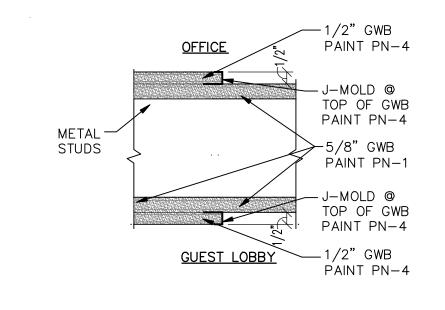


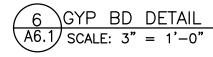
4 OFFICE WINDOW SECTION A6.1 SCALE: $3^{"} = 1' - 0"$



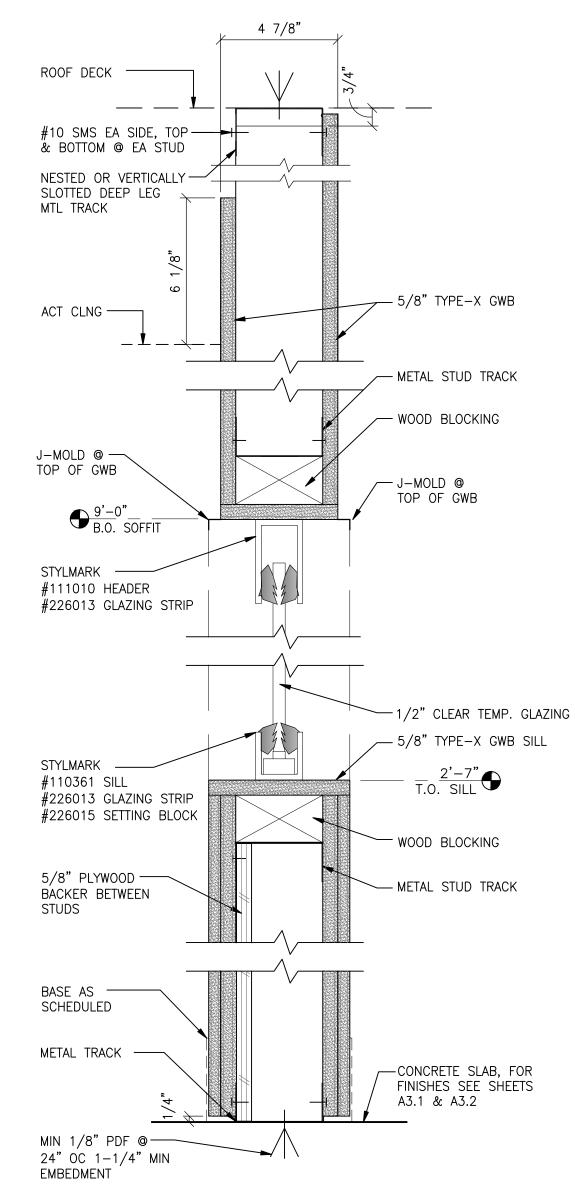
3 OFFICE WINDOW SECTION A6.1 SCALE: 3"=1'-0"

5 GYP BD DETAIL A6.1 SCALE: 6"=1'-0"



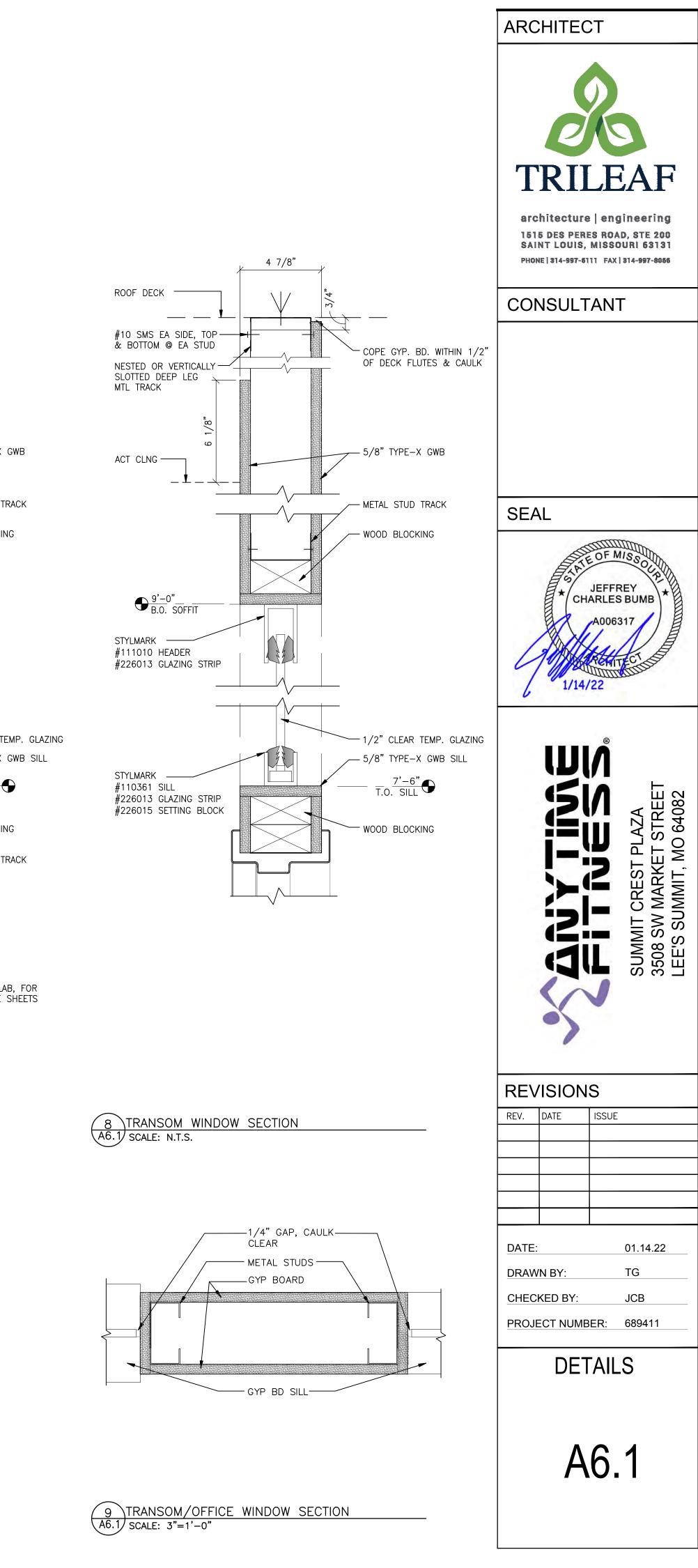


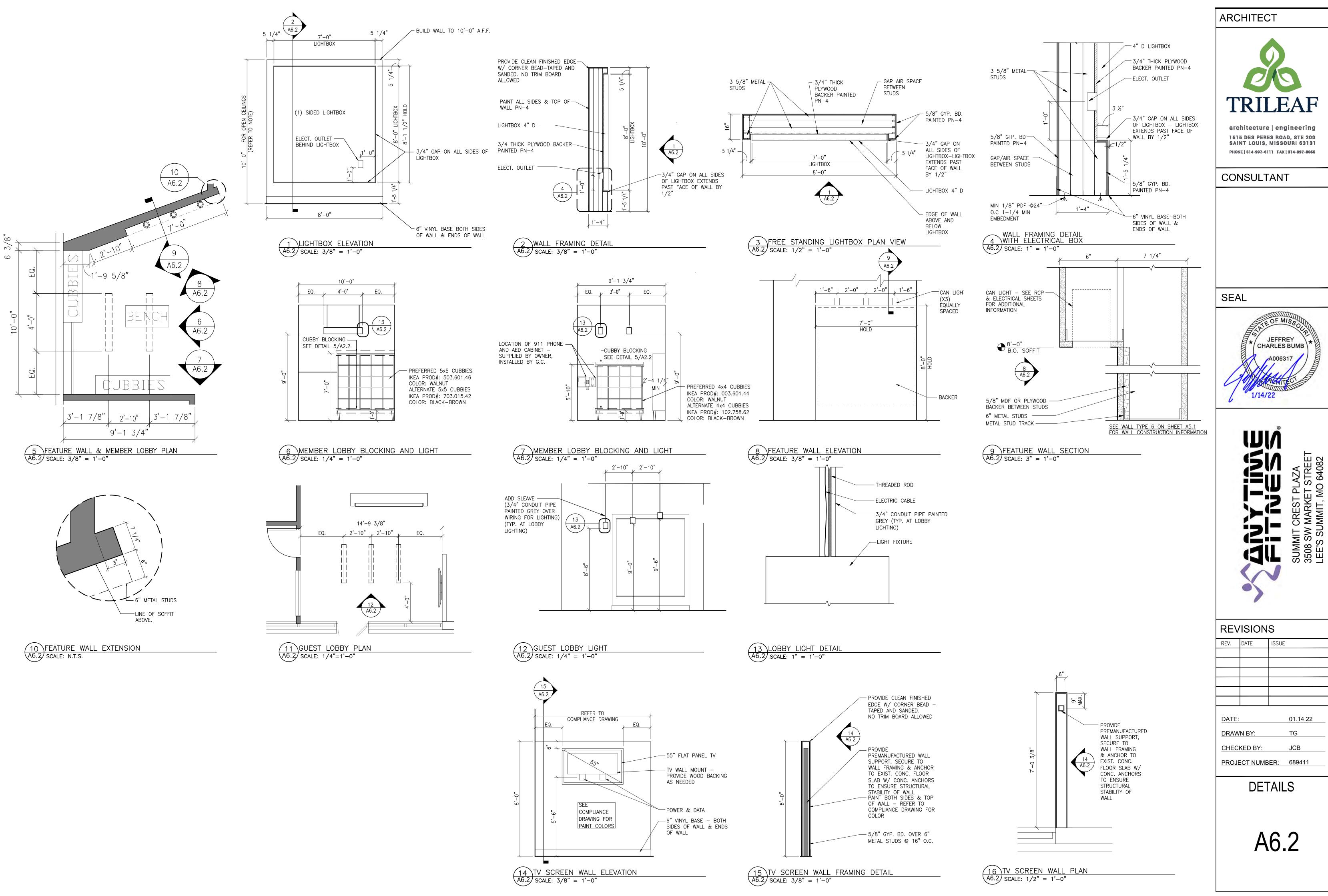
PROVIDE BACKING AT LOCATION OF 14 1/8"x30" AF SIGN

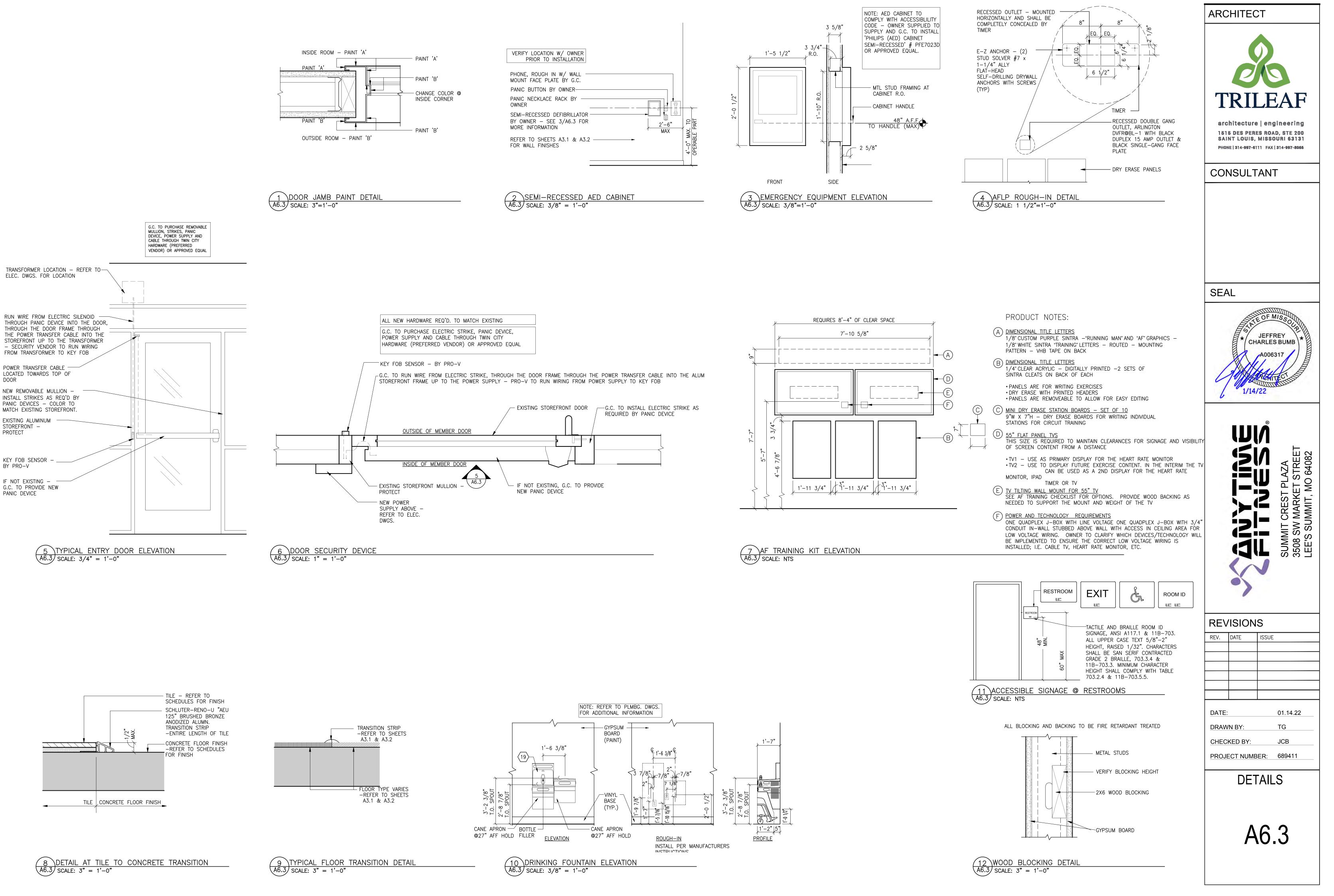


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7 OFFICE WINDOW SECTION A6.1 SCALE: N.T.S.







DOOR

- SECTION 01010 SUMMARY OF WORK A. WORK OF THIS CONTRACT IS TO BE COMPLETED IN ONE PHASE AND WILL CONSIST OF GENERAL, MECHANICAL, AND ELECTRICAL CONSTRUCTION AS REQUIRED TO RENOVATE THE EXISTING SPACE SHOWN ON THE DRAWINGS.
- B. THE TENANT MAY ENTER INTO SEPARATE CONTRACTS FOR WORK INCLUDING BUT NOT LIMITED TO STORE FIXTURES, TELECOMMUNICATIONS, ASBESTOS ABATEMENT, AND BASE BUILDING MECHANICAL DISTRIBUTION SYSTEM. ITEMS NOTED "NIC" (NOT IN CONTRACT) WILL BE FURNISHED AND INSTALLED BY THE TENANT UNDER A SEPARATE CONTRACT.
- C. FIXTURES/MATERIAL AS NOTED TO BE PROVIDED BY THE MILLWORK SUPPLIER AND INSTALLED BY THE GENERAL CONTRACTOR.
- D. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE USE OF PREMISES UNDER DIRECTION OF THE TENANT AND LANDLORD, FOR WORK AND ACCESS BY SUBCONTRACTORS, TENANT OCCUPANCY OF ADJACENT SPACES. AND PROTECTION AND SAFEKEEPING OF MATERIALS USED UNDER THIS CONTRACT CONTRACTOR IS TO REPAIR ANY DAMAGE MADE TO EXISTING BUILDING AND RESTORE-DAMAGED AREAS TO CONDITIONS EXISTING PRIOR TO STARTING WORK.
- E. SEQUENCE OF WORK IS TO BE COORDINATED TO AVOID INTERFERENCE WITH NORMAL OPERATIONS AND SECURITY OF EXISTING BUILDING. PLAN WORK SEQUENCE IN ADVANCE WITH TENANT AND OWNER AND OBTAIN THEIR APPROVAL BEFORE STARTING WORK. THIS INFORMATION IS TO BE CLARIFIED IN THE PRE-CONSTRUCTION MEETING.
- F. GC IS RESPONSIBLE FOR PROVIDING POWER FOR ALL EXTERIOR SIGNAGE. SIGNAGE PROVIDED BY OWNER INSTALLED BY OTHER.
- G. FIRE PROTECTION WORK IS ON A DESIGN/ BUILD BASIS, AS REQUIRED. GC IS RESPONSIBLE FOR ALL DRAWING SUBMISSIONS, MATERIALS, AND REQUIRED LABOR FOR FIRE PROTECTION SYSTEMS UNLESS NOTED OTHERWISE.
- H. GC TO VERIFY COMPLETION OF FURNITURE AND EQUIPMENT INSTALLATION. VERIFY EXISTING SITE CONDITIONS AND REPORT ANY DISCREPANCIES WITH THE CONSTRUCTION DRAWINGS TO THE ARCHITECT WITHIN 48 HOURS OF CONSTRUCTION START. NOTIFY OWNER AND ARCHITECT OF EXISTING SITE CONDITIONS THAT ARE IN CONFLICT WITH THE INTENT OF THESE DOCUMENTS.
- J. GENERAL CONTRACTOR TO PROVIDE A PROJECT SUPERINTENDENT TO MANAGE AND SUPERVISE THE WORK K. ALL UTILITY CONNECTIONS AND METERING TO BE COORDINATED WITH OWNER'S CONSTRUCTION MANAGER.
- GC SHALL BE RESPONSIBLE FOR SETTING UP ALL UTILITIES INTO OWNER'S NAME AT THE COMMENCEMENT OF CONSTRUCTION. L. GC TO PROVIDE A WASTE CONTAINER AND PAY FOR REMOVAL SERVICE OF ALL REFUSE AND WASTE
- MATERIALS GENERATED BY ALL PRIME CONTRACTORS AND SUBCONTRACTORS. EACH SUBCONTRACTOR WILL BE RESPONSIBLE FOR CLEAN-UP AND REMOVAL OF HIS OWN WASTE MATERIALS FROM THE STORE.
- M. GC IS RESPONSIBLE FOR QUANTITY AND CONDITION OF ALL SHIPMENTS. GC IS TO COUNT AND CHECK ANY DAMAGED BOXES PRIOR TO SIGNING FOR THEM. ANY AND ALL SHORTAGES AND DAMAGES SHALL BE DOCUMENTED ON RECEIVING TICKETS AND REPORTED IMMEDIATELY TO OWNER UPON RECEIPT. OBTAIN COPIES OF ALL SIGNED RECEIVING TICKETS AND SUBMIT THESE TO OWNER ON A WEEKLY BASIS.
- N. GC TO PROVIDE OWNER WITH LABOR AND MATERIAL WARRANTIES AND SERVICE CONTRACTS FROM ALL SUB-CONTRACTORS AND EQUIPMENT AND MATERIALS MANUFACTURERS. THESE WARRANTIES SHALL BE IN EFFECT FOR A PERIOD OF ONE (1) YEAR FROM INSTALLATION DATE.

SECTION 01045 - CUTTING AND PATCHING

- A. SUBMIT A WRITTEN REQUEST IN ADVANCE OF ANY CUTTING OR ALTERATION, WHICH AFFECTS THE WORK OF THE TENANT, OR THE STRUCTURAL INTEGRITY, SAFETY, VISUAL QUALITY, OR WEATHER-TIGHTNESS OF ANY OPERATIONAL ELEMENT OF THE PROJECT.
- B. CONTRACTOR IS RESPONSIBLE FOR EXECUTING WORK USING METHODS TO AVOID DAMAGE TO OTHER WORK, PROVIDING PROPER SURFACES TO RECEIVE PATCHING AND FINISHING, REFINISHING SURFACES TO MATCH ADJACENT FINISHES, MAINTAINING WATER INTEGRITY OF FACILITY AT ALL TIMES, AND PROVIDING DUST BARRIERS AS REQUIRED TO PROTECT EXISTING OR NEW WORK AND TENANT'S OPERATIONS FROM DAMAGE
- C. AT PENETRATIONS OF FIRE-RATED WALL, CEILING, OR FLOOR CONSTRUCTION, COMPLETELY SEAL VOIDS WITH FIRE-RATED MATERIAL FOR THE FULL THICKNESS OF THE CONSTRUCTION ELEMENT.
- D. PATCHED OR REFINISHED WORK SHALL NOTCH EXISTING ADJACENT WORK IN TEXTURE AND APPEARANCE.

SECTION 01500 - CONSTRUCTION FACILITIES

- BARRIERS: PROVIDE AS REQUIRED TO PREVENT PUBLIC ENTRY TO CONSTRUCTION AREAS AND TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM DAMAGE FROM CONSTRUCTION OPERATIONS
- B. ENCLOSURES: PROVIDE TEMPORARY INSULATED WEATHER TIGHT CLOSURES OF OPENINGS IN EXTERIOR SURFACES TO PROVIDE ACCEPTABLE WORKING CONDITIONS AND PROTECTION FOR MATERIALS, TO ALLOW FOR TEMPORARY HEATING AND TO PREVENT ENTRY OF UNAUTHORIZED PERSONS. PROVIDE DOORS WITH SELF-CLOSING HARDWARE AND LOCKS.

SECTION 01600 - MATERIALS AND EQUIPMENT

A. NO PRODUCTS ARE TO BE INCLUDED IN THE PROJECT, WHICH CONTAIN KNOWN HAZARDOUS MATERIALS, INCLUDING, BUT NOT LIMITED TO, ASBESTOS AND POLYCHLORINATED BIPHENYL (PCB) MATERIALS.

SECTION 01710 - FINAL CLEANING

- EXECUTE FINAL CLEANING PRIOR TO INSPECTION FOR SUBSTANTIAL COMPLETION. USE ONLY MATERIALS AND METHODS RECOMMENDED BY MANUFACTURER OF MATERIAL BEING CLEANED. IN ADDITION TO REMOVAL OF DEBRIS AND CLEANING SPECIFIED IN OTHER SECTIONS, CLEAN INTERIOR AND EXTERIORS, EXPOSED-TO-VIEW SURFACES. REMOVE TEMPORARY PROTECTION AND LABELS NOT REQUIRED TO
- B. CLEAN ALL FINISHES FREE OF DUST, AND OTHER FOREIGN SUBSTANCES, VACUUM CARPETED SURFACES, SCRUB AND MOP HARD SURFACE FLOORS, CLEAN EQUIPMENT, PLUMBING FIXTURES, LIGHT FIXTURES, AND LAMPS. MAINTAIN WORK IN A CLEAN CONDITION UNTIL FINAL COMPLETION.
- C. GC TO LEAVE WASTE CONTAINER UNTIL INSPECTION FOR SUBSTANTIAL COMPLETION OF UNTIL ALL EQUIPMENT AND MERCHANDISE HAS BEEN UNPACKED WHICHEVER IS LATER.

SECTION 01732 - MINOR DEMO FOR REMODELING A. SCOPE: INCLUDE REMOVAL OF DESIGNATED PARTITIONS: BUILDING COMPONENTS, EQUIPMENT AND

- FIXTURES. B. OCCUPANCY: CONDUCT DEMOLITION WORK IN A MANNER THAT WILL MINIMIZE DISRUPTION OF OWNER'S NORMAL OPERATIONS IN PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO PROJECT AREA. PROVIDE ADVANCE NOTICE TO OWNER OF ACTIVITIES THAT WILL AFFECT OWNER'S NORMAL OPERATIONS. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
- C. CONDITION OF STRUCTURES: OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF ITEMS OR IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT STRUCTURES TO BE DEMOLISHED. CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND REPORT TO OWNER AND ARCHITECT IN WRITING. PENDING RECEIPT OF DIRECTIVE FROM OWNER, ADJUST DEMOLITION SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT UNDUE DELAY. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE D. REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
- . CLOSE OPENINGS IN EXTERIOR SURFACES TO PROTECT EXISTING WORK AND SALVAGE ITEMS FROM WEATHER AND EXTREMES OF TEMPERATURE AND HUMIDITY.
- F. ERECT AND MAINTAIN DUST-PROOF PARTITIONS AND CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OR THE BUILDING. G. WHERE DESIGNATED BY OWNER, REMOVE, PROTECT, AND/OR STORE EXISTING SALVAGED MATERIALS AND
- EQUIPMENT TO BE REUSED OR TURNED OVER TO OWNER. REINSTALL ITEMS DESIGNATED BY DRAWINGS OR SPECIFICATIONS TO FULL OPERATIONAL CONDITION.
- H. REMOVE AND DISPOSE OF UNSUITABLE MATERIAL, DEBRIS, AND ABANDONED ITEMS NOT MARKED FOR SALVAGE. DISPOSAL OF ALL EXISTING TO-BE-REMOVED MATERIAL OR EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- LOCATE, IDENTIFY, STUB OFF, AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN. PROVIDE BYPASS CONNECTIONS AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE TO OCCUPIED AREAS OF BUILDING. PROVIDE ADVANCE NOTICE TO OWNER IF SHUT DOWN OF SERVICE IS NECESSARY. WORK LOCATIONS OF IDENTIFY AND INDICATE LOCATIONS ON PROJECT RECORD DOCUMENTS. DISCONNECTED UTILITIES.
- J. MAINTAIN FIRE PROTECTION SERVICES DURING SELECTIVE DEMOLITION OPERATIONS.

SECTION 03100 - CONCRETE FORMS RT 1 - WORK

1.1 WORK INCLUDED

- A. FORM WORK, SHORING, BRACING AND ANCHORAGE FOR CAST-IN-PLACE CONCRETE B. FORM ACCESSORIES C. STRIPPING FORMS
- PART 2 PRODUCT
- 2.1 PRODUCT DESCRIPTION A. FORMWORK: COMPLY WITH ACI 347-68 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" B. FORM MATERIALS: PLYWOOD, MDO GRADE; STEEL 16 GAUGE MINIMUM SHEET; FIBERGLASS, SMOOTH FACED.
 - C. ACCESSORIES: FORM TIES, FORM RELEASE AGENTS, FILLETS, ANCHORAGES

SECTION 03300 - CAST-IN-PLACE CONCRETE

- PART 1 WORK 1.1 WORK INCLUDED
 - A. CAST-IN-PLACE BUILDING FRAME MEMBERS, SLABS, FOOTINGS, PIERS AND COLUMNS B. FLOORS ON METAL DECK AND INTERIOR SLABS ON FILE
 - C. EQUIPMENT PADS

PART 2 - PRODUCT 2.1 PRODUCT DESCRIPTION

A. CONCRETE

- 4. STRUCTURAL SLABS, BEAMS, GIRDERS: 3000 PSI WITH 4" SLUMP 5. ADD AIR ENTRAINING AGENT TO MIX FOR CONCRETE EXPOSED TO FREEZE-THAW CYCLING
- B. ACCESSORIES: UNDER SLAB VAPOR BARRIER, EXPANSION, JOINT FILLERS, CONTROL JOINT KEYS, REGLETS DOVETAIL ANCHOR SLOTS, FLOOR SEALER, AND FLOOR HARDENER C. TESTING: THREE TEST CYLINDERS WILL BE TAKEN FOR EVERY 75 OF LESS CUBIC YARDS OF EACH CLASS OF CONCRETE PLACED EACH DAY

SECTION 04730 - SIMULATED STONE

PART 1 – WORK 1.1 WORK INCLUDE

SUBSTRATE AS INDICATED ON DRAWINGS

PART 2 – PRODUCT 2.1 PRODUCT DESCRIPTION

- WEATHERING, DEGRADATION BY WEATHER B. STONE DESIGN AND COLOR:
- 1. MANUFACTURER: PER DECOR SCHEDULE

C. INSTALL PER MANUFACTURER'S SPECIFICATIONS

SECTION 05500 - METAL FABRICATION I.1 WORK INCLUDED

- ON THE DRAWINGS
- B. FURNISH METAL FABRICATIONS TO BE FIELD INSTALLED/ ANCHORED TO STRUCTURAL STEEL

- 1.2 DESIGN REQUIREMENTS

 - NOT BE IN DIRECT PULL-OUT.
 - D. P SEISMIC BRACING: FRAMING SYSTEM SHALL BE ADEQUATELY BRACED TO MEET ALL CODE
- REQUIREMENTS
- 1.3 SHOP DRAWINGS A. INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING ANCHORAGE, SIZE AND TYPE
- OF FASTENERS, AND ACCESSORIES.

PART 2 - PRODUCT

- 2.1 MATERIALS A. STEEL SECTIONS: ASTM A36
- B. STEEL TUBING: ASTM A500, GRADE B
- C. BOLTS, NUTS, AND WASHERS: ASTM A307 D. STEEL PIPE: SCHEDULE 80
- E. CHANNEL SIZE: P1000 SERIES CHANNELS AS MANUFACTURED BY UNISTRUT
- G. ALL MATERIALS SHALL BE STAMPED AND IDENTIFIABLE BY MANUFACTURER AND PART NUMBER
- (WHFRF RUSTED SHALL NOT

2.2 FABRICATION A. VERIFY DIMENSIONS ON SITE PRIOR TO SHOP FABRICATION. B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED. C. MAKE EXPOSED JOINTS BUTT TIGHT, FLUSH AND HAIRLINE. SPECIFICALLY NOTED OTHERWISE

2.3 FINISH

PART 3 – EXECUTION

SECTION 09900.

3.1 PRFPARATION

- 3.2 INSTALLATION MANUFACTURER.
- TORQUES.

SECTION 06100 - MISCELLANEOUS CARPENTRY RT 1 - WORK

- 1.1 WORK INCLUDED A. MISCELLANEOUS WOOD FRAMING WITH DIMENSION LUMBER
- B. MISCELLANEOUS FINISHED WOOD SHELVING C. WOOD FURRING FOR WALL FINISHES
- LOCKERS, SHELVING

PART 2 – PRODUCT 2.1

- PRODUCT DESCRIPTION

- TREATMENT.

E. MISCELLANEOUS OAK VENEER PLYWOOD.

LABORATORIES, INC.

SECTION 07840 - FIRE STOPPING

PART 1 – WORK

1.1 WORK INCLUDED

1. MIX IN ACCORDANCE WITH ASTM C94

- 2. FOOTINGS AND FOUNDATION CONCRETE: 3000 PSI WITH 4" SLUMP
- 3. SLAB ON GRADE CONCRETE: 4000 PSI WITH 4" SLUMP

A. SIMULATED STONE ASSEMBLY INSTALLED AS WALL VENEER OVER A SCRATCH COAT PREPARED

A. SIMULATED STONE: ENGINEERED BY MANUFACTURER TO ACHIEVE SPECIFIED STRENGTH, COLOR, AND TEXTURE, DESIRED HANDLING CHARACTERISTICS, AND RESISTANCE TO EFFECTS OF

A. METAL FRAMING MATERIAL, FITTINGS AND RELATED SUPPORT SYSTEM ACCESSORIES AS INDICATED

A. SUPPORT STRUCTURE: THE SUPPORT MEMBERS SHALL BE LOCATED AS INDICATED ON THE DRAWINGS. THE SPACING SHALL BE AS SHOWN ON THE DRAWINGS. B. CEILING ANCHORAGE: WHENEVER POSSIBLE. ATTACHMENT TO THE CEILING STRUCTURE ABOVE SHALL BE BY MEANS OF IMBEDDED CONCRETE INSERTS, THROUGH BOLTS, OR BY DIRECT ATTACHMENT TO THE STRUCTURAL FRAMING OF THE BUILDING. WHEN POSSIBLE, FASTENERS WILL : VERTICAL SUPPORTS: VERTICAL SUPPORTS SHALL PROVIDE FOR BASIC VERTICAL ADJUSTMENTS

B. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE

F. PIPE HANGER: J1210 AS MANUFACTURED BY UNISTRUT

APPROPRIATE). MATERIALS THAT APPEAR DAMAGED, DISTRESSED, UNIDENTIFIABLE OR BE USED AND WILL NOT BE ACCEPTED.

D. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE OF METAL FABRICATIONS. FABRICATE ANCHORAGE AND RELATED COMPONENTS OF SAME MATERIAL AND FINISH AS METAL FABRICATION, EXCEPT WHERE

A. CLEAN, PREPARE, AND SHOP PRIME STRUCTURAL STEEL MEMBERS ONLY IN AREAS TO BE PERMANENTLY EXPOSED TO PUBLIC VIEW. DO NOT PRIME SURFACES TO BE GALVANIZED FIREPROOFED, FIELD WELDED OR IN CONTACT WITH CONCRETE OR NOT EXPOSED TO VIEW. VERIFY EXTENT WITH ARCHITECTURAL DOCUMENTS. PROVIDE DRY FILM THICKNESS OF 2.0 TO 3.5 MILS. B. SURFACE PREPARATION: AFTER INSPECTION AND BEFORE SHIPPING. CLEAN ALL STEEL WORK TO RECEIVE FINISH PAINTING IN FIELD. FINISH COATS SHALL BE SPECIFIED UNDER PROVISIONS OF

A. CLEAN AND STRIP SITE PRIMED STEEL ITEMS TO BARE METAL WHERE SITE WELDING IS SCHEDULED. B. MAKE PROVISIONS FOR ERECTION LOADS WITH TEMPORARY BRACING. KEEP WORK IN ALIGNMENT.

A. INSTALL ITEMS PLUMB AND LEVEL, ACCURATELY FITTED, FREE FROM DISTORTION OR DEFECTS. B. INSTALLATION SHALL BE ACCOMPLISHED BY A FULLY TRAINED INSTALLER AUTHORIZED BY THE

C. ANCHOR MATERIAL FIRMLY IN PLACE. TIGHTEN ALL CONNECTIONS TO THEIR RECOMMENDED

D. CONCEALED WOOD BLOCKING AND ROLLERS FOR SUPPORT OF CABINETS, TOILET ACCESSORIES.

A. LUMBER: PS 20, ANY COMMERCIAL SOFTWOOD SPECIES GRADES IN ACCORDANCE WITH NFPA GRADING RULES: STANDARD GRADE OR BETTER. SURFACING - FOUR SIDES (S4S). B. ACCESSORIES: NAILS, BOLTS, LAGS, SCREWS AND SPIKES TO BE GALVANIZED WHERE USED FOR

EXTERIOR, OR HIGH HUMIDITY LOCATIONS AND WITH TREATED WOOD. C. PRESERVATIVE TREATMENT: PRESSURE TREAT ALL WOOD MEMBERS THAT COME IN CONTACT WITH ROOFING, WATERPROOFING, THE GROUND, CONCRETE, OR MASONRY. COMPLY WITH REQUIREMENTS OF AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARDS C2 AND C9 FOR PRESERVATIVE

D. FIRE RETARDANT TREATMENT: CARPENTRY SHALL MEET A MINIMUM CLASS III (C) FLAME SPREAD RATING PER THE REQUIREMENTS OF ASTM-84. WHERE FIRE-RESISTIVE CONSTRUCTION IS REQUIRED BY BUILDING CODES, PROVIDE WOOD MATERIALS IMPREGNATED WITH FIRE-RETARDANT CHEMICALS. IDENTIFY TREATED WOOD WITH APPROPRIATE CLASSIFICATION MARKING OF UNDERWRITERS

A. PROVIDE FIRE STOPPING SYSTEMS PRODUCED AND INSTALLED TO RESIST THE SPREAD OF FIRE, ACCORDING TO REQUIREMENTS INDICATED, AND THE PASSAGE OF SMOKE AND OTHER GASES. B. FIRE-RESISTIVE JOINT SEALANTS: PROVIDE JOINT SEALANTS WITH FIRE-RESISTIVE RATINGS INDICATED, AS DETERMINED PER ASTM E 119, BUT NOT LESS THAN EQALIN OR EXCEEDING THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION IN WHICH THE JOINT OCCURS.

C. FOR FIRE STOPPING EXPOSED TO VIEW, TRAFFIC, MOISTURE AND PHYSICAL DAMAGE, PROVIDE PRODUCTS THAT DO NOT DETERIORATE WHEN EXPOSED TO THESE CONDITIONS. D. FOR PIPING PENETRATIONS FOR PLUMBING AND WET-PIPE SPRINKLER SYSTEMS, PROVIDE MOISTURE RESISTANCE THROUGH-PENETRATION FIRE-STOP SYSTEMS.

E. FOR PENETRATIONS INVOLVING INSULATED PIPING, PROVIDE THROUGH-PENETRATION FIRE-STOP SYSTEMS NOT REQUIRING REMOVAL OF INSULATION. F. FOR FIRE-STOPPING EXPOSED TO VIEW, PROVIDE PRODUCTS WITH FLAME-SPREAD VALUES OF LESS

THAN 25 AND SMOKE DEVELOPED-VALUES OF LESS THAN 450, AS DETERMINED PER ASTM E 84.

SECTION 08110 - HOLLOW METAL DOORS AND FRAMES PART 1 – WORK

1.1 WORK INCLUDED A. SECTION INCLUDES: STANDARD HOLLOW METAL DOORS AND FRAMES

- 1.2 SUBMITTALS
 - A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED
- B. SHOP DRAWINGS: INCLUDE ELEVATIONS, DOOR EDGE DETAILS, FRAME PROFILES, METAL THICKNESS, PREPARATIONS FOR HARDWARE, AND OTHER DETAILS
- 1.3 QUALITY ASSURANCE
- A. FIRE-RATED DOOR ASSEMBLIES: ASSEMBLIES COMPLYING WITH NFPA 80 THAT ARE LISTED AND LABELED BY A QUALIFIED TESTING AGENCY, FOR FIRE-PROTECTION RATING INDICATED, BASED ON TESTING AT POSITIVE PRESSURE ACCORDING TO NFPA 252.

PART 2 - PRODUCTS 2.1 STANDARD HOLLOW METAL DOORS

A. GENERAL: COMPLY WITH ASNI/SDI A250.8

- 1. DESIGN: 18 GAUGE HOLLOW METAL DOORS FACTORY APPLIED PRIME PAINTED.
- 2. CORE CONSTRUCTION: MANUFACTURER'S STANDARD KRAFT-PAPER HONEYCOMB, POLYSTYRENE, POLYURETHANE, POLYISOCYANURATE, MINERAL-BOARD, OR VERTICAL STEEL-STIFFENER CORE a. FIRE DOOR CORE: AS REQUIRED TO PROVIDE FIRE-PROTECTION AND TEMPERATURE-RISE PART 3 - EXECUTION
- RATINGS INDICATED.
- b. THERMAL-RATED (INSULATED) EXTERIOR DOORS.
- B. DOORS: FACE SHEETS FABRICATED FROM METALLIC-COATED STEEL SHEET. COMPLY WITH ANSI/SDI A250.8 OR LEVEL AND MODEL AND ANSI/SDI A250.4 FOR PHYSICAL PERFORMANCE LEVEL: 1. LEVEL 1 AND PHYSICAL PERFORMANCE LEVEL C (STANDARD DUTY), MODEL 1 (FULL FLUSH)
- 2.2 STANDARD HOLLOW METAL FRAMES
- A. GENERAL: COMPLY WITH ANSI/DI A250.8 B. FRAMES: FABRICATED EXTERIOR FRAMES FROM METALLIC-COATED STEEL SHEET. INTERIOR FRAMES FROM COLD-ROLLED STEEL SHEET.
- 1. FABRICATE FRAMES AS KNOCK DOWN 16 GAUGE FACTORY APPLIED PRIME PAINTED. PART 3 – EXECUTION 3.1 INSTALLATION A. HOLLOW METAL DOORS & FRAMES: COMPLY WITH ANSI/SDI A250.11
- SECTION 08211 FLUSH WOOD DOORS
- 1.1 SUMMARY
- A. SECTION INCLUDES: 1. SOLID-CORE DOORS WITH WOOD-VENEER FACES
- B. RELATED SECTIONS:
 - 1. DIVISION 8 SECTION "GLAZING" FOR GLASS VIEW PANELS IN FLUSH WOOD DOORS
- 1.2 SUBMITTALS
 - A. PRODUCT DATA: FOR EACH TYPE OF DOOR INDICATED B. SHOP DRAWINGS: INDICATE LOCATION, SIZE, AND HAND OF EACH DOOR; ELEVATION OF EACH KIND OF DOOR; CONSTRUCTION DETAILS NOT COVERED IN PRODUCT DATA; LOCATION AND EXTENT OF HARDWARE BLOCKING; AND OTHER PERTINENT DATA.
- PART 2 PRODUCTS
- 2.1 VENEERED-FACED DOORS FOR TRANSPARENT FINISH
 - A. INTERIOR SOLID-CORE DOORS: 1. GRADE: PREMIUM, WITH GRADE A FACES
 - 2. SPECIES: MAPLE
- B. GLAZING: 1. GLAZING: FACTORY INSTALL GLAZING IN DOORS. COMPLY WITH APPLICABLE REQUIREMENTS IN DIVISION 8 SECTION "GLAZING"
- PART 3 EXECUTION
- 3.1 INSTALLATION
- A. HARDWARE: FOR INSTALLATION, SEE DIVISION 8 SECTION, "DOOR HARDWARE"
- B. INSTALLATION INSTRUCTIONS: INSTALL DOORS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE REFERENCED QUALITY STANDARD, AND AS INDICATED.

SECTION 08311 - ACCESS DOORS AND FRAMES PART 1 – GENERAL

1.1 SUMMARY A. THIS SECTION INCLUDES ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS

- 1.2 SUBMITTALS
- A. PRODUCT DATA: FOR EACH TYPE OF ACCESS DOOR AND FRAME INDICATED
- 1.3 COORDINATION A. VERIFICATION: DETERMINE SPECIFIC LOCATIONS AND SIZES FOR ACCESS DOORS NEEDED TO GAIN TO CONCEALED PLUMBING, MECHANICAL, OR OTHER CONCEALED WORK. ACCESS
- PART 2 PRODUCTS
- 2.1 ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS APPROPRIATE TO EACH TYPE OF INSTALLATION.
- PART 3 EXECUTION 3.1 INSTALLATION

MATERIAL.

- A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLING ACCESS DOORS AND
- FRAMES. B. SET FRAMES ACCURATELY IN POSITION AND ATTACH SECURELY TO SUPPORTS WITH PLANE OF FACE PANELS ALIGNED WITH ADJACENT FINISH SURFACES C. INSTALL DOORS FLUSH WITH ADJACENT FINISH SURFACES OR RECESSED TO RECEIVE FINISH
- SECTION 08710 DOOR HARDWARE
- 1 GENERAL 1.1 SUMMARY A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED
- PART 2 PRODUCTS
- 2.1 SCHEDULED DOOR HARDWARE A. GENERAL: PROVIDE DOOR HARDWARE FOR EACH DOOR TO COMPLY WITH REQUIREMENTS IN THIS SECTION AND DOOR HARDWARE SETS INDICATED IN DOOR AND FRAME SCHEDULE. B. BASIS FOR DESIGN PRODUCT: THE DESIGN FOR HARDWARE IS BASED ON PRODUCTS INDICATED OR
 - A COMPARABLE PRODUCT: 1. BUTT HINGES: HAGER BB1191
 - 2. LOCK SETS: SCHLAGE AL-SERIES SATURN
 - 3. KICK DOWN HOLD-OPEN: DON-JO 1464 4. WALL STOPS: DON-JO 1407
 - 5. PUSH/PULL: DON-JO 7611
 - 6. CLOSÉR: LCN 1371 7. ROBE HOOK: DON-JO 302
 - 8. KICK PLATE: DON-JO 90
 - 9. COORDINATOR: IVES COR SERIES 10. PANIC DEVICE: VON DUPRIN SERIES 98
 - 11. THRESHOLD: REESE S204A. HALF SADDLE: REESE S239A.
 - 13. WEATHER-STRIPPING: HOLLOW METAL DOOR REESE 815A/ ALUMINUM DOOR REESE 630 (MATCH DOOR COLOR/ FINISH)
 - 14. DRIP: REESE R199A 15. SWEEPS: REESE 323A
 - 16. ASTRAGAL: REESE 184A
 - C. FINISH US26D/626/US32D/630 OR COMPARABLE
- PART 3 EXECUTION 3.1 INSTALLATION
 - A. STEEL DOORS AND FRAMES: COMPLY WITH DHI A115 SERIES. DRILL AND TAP DOORS AND FRAMES FOR SURFACE-APPLIED DOOR HARDWARE ACCORDING TO ANSI A250.6 B. WOOD DOORS: COMPLY WITH DHI A115-W SERIES
 - C. INSTALL EACH DOOR HARDWARE ITEM TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. WHERE CUTTING AND FITTING ARE REQUIRED TO INSTALL DOOR HARDWARE ONTO OR INTO SURFACES THAT ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, COORDINATE REMOVAL, STORAGE, AND REINSTALLATION OF SURFACE PROTECTIVE TRIM UNITS WITH FINISHING WORK SPECIFIED IN DIVISION 9 SECTIONS. DO NOT INSTALL SURFACE-MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON SUBSTRATES INVOLVED.

SECTION 08800 - GLAZING PART 1 – GENERAL

1.1 SUMMARY A. THIS SECTION INCLUDES GLAZING FOR THE FOLLOWING PRODUCTS AND APPLICATIONS, INCLUDING THOSE SPECIFIED IN OTHER SECTIONS WHERE GLAZING REQUIREMENTS ARE SPECIFIED BY REFERENCE TO THIS SECTION:

- 1. WINDOWS
- 2. DOORS 3. BORROWED LITES
- 4. MIRRORS

1.2 SUBMITTALS A. PRODUCT DATA: FOR EACH GLASS PRODUCT AND GLAZING MATERIAL INDICATED.

PART 2 - PRODUCTS 2.1 GLASS PRODUCTS

- A. ANNEALED FLOAT GLASS: ASTM C 1036, TYPE I (TRANSPARENT FLAT GLASS), QUALITY-Q3, OF CLASS INDICATED 1. ULTRA-CLEAR (LOW IRON) FLOAT GLASS: CLASS 1 (CLEAR)
- B. HEAT-TREATED FLOAT GLASS: ASTM C 1048; TYPE 1 (TRANSPARENT FLAT GLASS); QUALITY-Q3 LAMINATED GLASS: ASTM C 1172 D. MIRRORS: CLEAR AND TEMPERED GLASS MIRRORS: ASTM C 1503+0

3.1 GLAZING & MIRRORS

A. GENERAL: COMPLY WITH COMBINED WRITTEN INSTRUCTIONS OF MANUFACTURERS OF GLASS, SEALANTS GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED, INCLUDING THOSE IN REFERENCED GLAZING PUBLICATIONS

3.2 CLEANING PROTECTION

- A. PROTECT GLASS & MIRRORS FROM DAMAGE IMMEDIATELY AFTER INSTALLATION BY ATTACHING CROSSEE STREAMERS TO FRAMING HELD AWAY FROM GLASS. DO NOT APPLY MARKERS TO GLASS SURFACE. REMOVE NONPERMANENT LABELS, AND CLEAN SURFACES. PROTECT GLASS & MIRRORS FROM CONTACT WITH CONTAMINATING SUBSTANCES RESULTING FROM CONSTRUCTION OPERATIONS, INCLUDING WELD SPLATTER. IF, DESPITE SUCH PROTECTION, CONTAMINATING SUBSTANCES DO COME INTO CONTACT WITH GLASS,
- REMOVE SUBSTANCES IMMEDIATELY AS RECOMMENDED BY GLASS & MIRROR MANUFACTURER. B. REMOVE AND REPLACE GLASS & MIRRORS THAT ARE BROKEN, CHIPPED, CRACKED OR ABRADED TORTHAT IS DAMAGED FROM NATURAL CAUSES, ACCIDENTS, AND VANDALISM, DURING CONSTRUCTION PERIOD.

SECTION 092216 - NON-STRUCTURAL METAL FRAMING PART 2.2 FRAMING SYSTEMS

A. PARTIAL WALL FRAMING CONNECTION: [1/2-INCH (12.7-MM)] ASTM A36/A36M STEEL-PLATE ST50H STUD CONNECTOR DESIGNED TO SUPPORT OUT-OF-PLANE LOADING OF CANTILEVERED PARTIAL WALL SYSTEMS THAT ARE UNSUPPORTED AT THE TOP TRACK.

- 1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE CLARKDIETRICH; PONY WALL [PW48] OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING CURRENT MEMBERS OF THE SFIA:
- a. STEELER.
- 2. MINIMUM BASE-STEEL THICKNESS: [0.0966 INCH (2.45 MM)].
- 3. SIZE (HEIGHT; WIDTH BY LENGTH): [47-3/4 INCHES (1213 MM) OR [60" INCHES (1524 MM)] TALL; WITH 3-3/8-BY-8-INCH (86-BY-203-MM) LONG PLATE.

SECTION 09260 - GYPSUM BOARD SYSTEMS

- PART 1 GENERAL 1.1 SUMMARY A. SCOPE: PROVIDE METAL WALL AND CEILING FRAMING, BLOCKING, GYPSUM BOARD INSTALLATION AND FINISHING (INCLUDING SKIM COATING WHERE NOTED), AND SOUND ATTENUATION INSTALLATION AS SHOWN
- ON DRAWINGS. B. PERFORM GYPSUM BOARD SYSTEMS WORK IN ACCORDANCE WITH RECOMMENDATIONS OF ASTM C754 AND GA 216 UNLESS OTHERWISE SPECIFIED IN THIS SECTION.
- C. ENVIRONMENTAL REQUIREMENTS: MAINTAIN A MINIMUM TEMPERATURE OF 55 DEGREES F DURING APPLICATION AND CURING OF JOINT TREATMENT COMPOUNDS. D. METAL STUDS: NON-LOAD BEARING ROLLED STEEL, GALVANIZED, CHANNEL SHAPED, 25 GAUGE
- UNLESS OTHERWISE INDICATED, PUNCHED FOR UTILITY ACCESS. GOLD BOND BUILDING PRODUCTS SCREW STUDS; UNITED STATES GYPSUM– STEEL STUDS; THE CELOTEX CORPORATION STEEL STUDS; DIETRICH INDUSTRIES-STEEL STUDS. SPACE AT 24"O.C. UNLESS NOTED OTHERWISE. E. RUNNER CHANNELS (GAUGE TO MATCH METAL STUDS) COLD ROLLED STEEL WITH FACTORY APPLIED RUST-RESISTANT FINISH, 1-1/2 INCH SIZE, UNLESS OTHERWISE INDICATED.
- F. FURRING AND BRACING MEMBERS: 25 GAUGE COLD FORMED GALVANIZED STEEL HAT-SHAPED OR Z-SHAPED, PLAIN OR KNURLED FACE. G. EXPANSION/ CONTROL JOINTS: GOLD BOND BUILDING PRODUCTS - E-Z STRIP OR U.S.
- GYPSUM NO. 93
- H. GYPSUM BOARD: 1. STANDARD GYPSUM BOARD: 5/8 INCH THICK; MAXIMUM PERMISSIBLE LENGTH; SQUARE CUT ENDS, TAPERED EDGES; ASTM C36.
- 2. STANDARD FIRE RATED GYPSUM BOARD: UL RATED, 5/8 INCH THICK; MAXIMUM PERMISSIBLE LENGTH; SQUARE CUT ENDS, TAPERED EDGES.
- I. GYPSUM BOARD ACCESSORIES: PROVIDE IN ACCORDANCE WITH GA 216 AND MANUFACTURER'S RECOMMENDATIONS
- 1. CORNER BEADS: GOLD BOND BUILDING PRODUCTS STANDARD CORNER BEADS; UNITED STATES GYPSUM - DUR-A-BEAD.
- 2. CASING BEADS: GOLD BOND BUILDING PRODUCTS NO. 100; U.S. GYPSUM NO. 200A 3. JOINT TREATMENT: GOLD BOND BUILDING PRODUCTS - JOINT COMPOUNDS, TOPPING
- COMPOUND AND JOINT TAPE; U.S. GYPSUM JOINT COMPOUNDS, TAPING AND TOPPING, AND PERF-A-TAPE. 4. BONDING ADHESIVE: H.B. FULLER CO. - MAX BOND; GOLD BOND BUILDING PRODUCTS
- -WALLBOARD/ PANEL ADHESIVE; UNITED STATES GYPSUM DURABOND 200 ADHESIVE. 5. SOUND ATTENUATION BLANKETS: 2 INCH THICK BLANKETS. THERM-FIBER AS MANUFACTURED BY UNITED STATES GYPSUM.

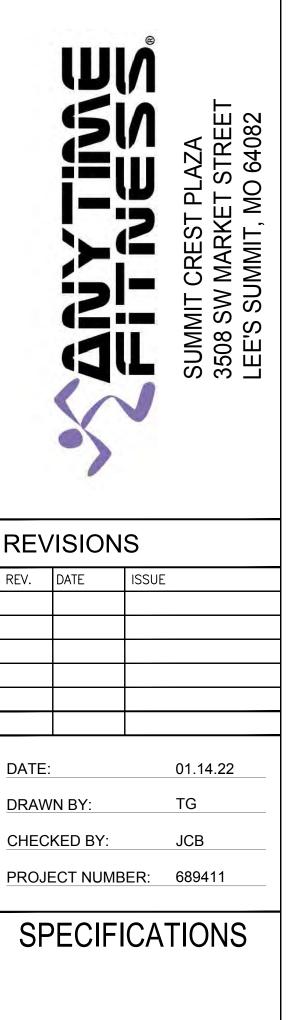
SECTION 09300 - TILE

- PART 1 GENERAL 1.1 SUMMARY
- A. CERAMIC OF QUARRY TILE INSTALLED USING THE THIN SET METHOD.
- B. SEALANT USED IN CONJUNCTION WITH CERAMIC TILE. C. SOLID SURFACE SHOWER THRESHOLDS.
- 1.2 PRODUCT DESCRIPTION A. SETTING MATERIALS
 - 1. PORTLAND CEMENT ASTM C150 TYPE 1, GRAY OR WHITE TO MATCH EXISTING
 - 2. HYDRATED LINE: ASTM C-206 OR C-207 TYPE S
 - 3. SAND: ASTM C-144 FOR MORTAR OR GROUT AS REQUIRED 4. WATER: CLEAN AND POTABLE
 - 5. SHRINKAGE MESH: ANSI A50 3, 2"X2" MESH, 16/16 WIRE OR 3"X3" MESH, 13/13 WIRE OR 1-1/2"X2" MESH, 16/13 WIRE; GALVANIZED
- 6. DRY-SET MORTAR: ANSI A118.1 B. ADHESIVE MATERIALS
- 1. THIN-SET ADHESIVE, FLOORS: H.B. FULLER CO. FULL FLEX UNIVERSAL LATEX -
- MODIFIED THIN SET MORTAR
- 2. THIN-SET ADHESIVE, WALLS: H.B. FULLER CO. DOUBLE DUTY 'CLASSIC' ADHESIVE C. GROUT TYPE: FLOOR AND WALL TILE GROUT: CEMENTITIOUS TYPE (WITH LATEX ADDITIVE FOR FLOOR APPLICATION); COLORS TO BE SELECTED BY ARCHITECT; RESISTANT TO SHRINKING;
- MANUFACTURED BY THE UPCO COMPANY, H.B. FULLER (TEC) OR HYDROMENT. REFER TO FINISH SCHEDULE. D. MORTAR MIX AND GROUT: MIX AND PROPORTION PRE-MIX SETTING BED AND GROUT MATERIALS IN
- ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. E. SEALANT: PENETRATING SEALANT BY AQUAMIX
- F. EDGE AND TRANSITION STRIPS: STRIP TO BE JOHNSONITE CE-45-C COLOR SANDALWOOD 45. INSTALL WITH TRACK: MT-00-A, FASTEN WITH 5/8" CONCRETE NAILS. G. WATERPROOF SHEET MEMBRANE: MEMBRANE SHALL BE NOBLESEAL TS AS MANUFACTURED BY THE
- NOBLE COMPANY, OR APPROVED EQUAL. MUST BE PROVIDED BY SAME MANUFACTURER AS GROUT MATERIAL. PROVIDE WHERE INDICATED ON FLOOR PLAN.
- 1.2 INSTALLATION
 - A. INSTALL CERAMIC AND PORCELAIN TILE IN, ACCORDANCE WITH ANSI A108.4
 - B. INSTALL QUARRY TILE IN ACCORDANCE WITH ANSI A108.3 C. LAY TILE TO PATTERN INDICATED. VERIFY PATTERN IN UNINTERRUPTED THROUGH OPENINGS.
 - D. CUT AND FIT TILE TIGHT TO PROTRUSIONS AND VERTICAL INTERRUPTIONS. FORM CORNERS NEATLY.
 - E. WORK TILE JOINTS UNIFORM IN WIDTH, SUBJECT TO VARIANCE IN TOLERANCE ALLOWED IN TILE SIZE. JOINTS: WATERTIGHT, WITHOUT VOIDS, CRACKS, EXCESS MORTAR OR GROUT
 - F. KEEP EXPANSION/CONTRACTION JOINTS FREE OF MORTAR OR GROUT
 - G. ALLOW TILE TO SET FOR A MINIMUM OF 48 HOURS PRIOR TO GROUTING H. GROUT TILE JOINTS
 - I. APPLY SEALANT TO JUNCTION OF TILE AND DISSIMILAR MATERIALS AND AT A JUNCTURE OF DISSIMILAR PLANES
 - J. PROHIBIT TRAFFIC FROM FLOOR FINISH FOR 3 DAYS AFTER INSTALLATION K. ADEQUATELY PROTECT FLOORS SUBJECT TO FOOT AND WHEEL TRAFFIC.

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SEAL





SECTION 09512 - ACOUSTICAL TILE CEILINGS

– GENERAL 1.1 SUMMARY A. THIS SECTION INCLUDES ACOUSTICAL TILES AND SUSPENSION SYSTEMS FOR CEILINGS

1.2 SUBMITTALS A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED

- 1.3 QUALITY ASSURANCE
 - A. SEISMIC STANDARD: COMPLY WITH THE FOLLOWING: 1. STANDARD FOR CEILING SUSPENSION SYSTEMS REQUIRING SEISMIC RESTRAINT: COMPLY WITH ASTM E 580
 - 2. CISCA'S RECOMMENDATIONS FOR ACOUSTICAL CEILINGS: COMPLY WITH CISCA'S "RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS -SEISMIC ZONES 0-2"
 - 3. CISCA'S GUIDELINES FOR SYSTEMS REQUIRING SEISMIC RESTRAINT: COMPLY WITH CISCA'S "GUIDELINES FOR SEISMIC RESTRAINT OF DIRECT-HUNG SUSPENDED CEILING ASSEMBLIES -SEISMIC ZONES 3&4"

PART 2 - PRODUCTS 2.1 ACOUSTICAL TILE CEILINGS, GENERAL

- A. ACOUSTICAL TILE STANDARD: COMPLY WITH ASTM E 1264
- B. METAL SUSUPENSION SYSTEM STANDARD: COMPLY WITH ASTM C 635 C. ATTACHMENT DEVISES: SIZE FOR FIVE TIMES THE DESIGN LOAD INDICATED IN ASTM C 635, TABLE
- "DIRECT-HUNG", UNLESS OTHERWISE INDICATED. COMPLY WITH SEISMIC DESIGN REQUIREMENTS. D. WIRE HANGERS, BRACES, AND TIES: ZINC-COATED CARBON-STEEL WIRE; ASTM A 641/A641M, CLASS 1 ZINC COATING, SOFT TEMPER
- 1. SIZE: SELECT WIRE DIAMETER SO ITS STRESS AT 3 TIMES HANGER DESIGN LOAD (ASTM C 635, TABLE 1 "DIRECT HUNG") WILL BE LESS THAN YIELD STRESS OF WIRE, BUT PROVIDE NOT LESS THAN 0.106-INCH-(2.69MM-) DIAMETER WIRE. E. SEISMIC STRUTS AND SEISMIC CLIPS
- F. METAL EDGE MOLDINGS AND TRIM: TYPE AND PROFILE INDICATED OR, IF NOT INDICATED, MANUFACTURER'S STANDARD MOLDINGS FOR EDGES AND PENETRATIONS THAT COMPLY WITH SEISMIC DESIGN REQUIREMENTS; FORMED FROM SHEET METAL OF SAME MATERIAL, FINISH, AND COLOR AS THAT USED FOR EXPOSED FLANGES OF SUSPENSION SYSTEM RUNNERS.

2.2 ACOUSTICAL TILE AND SUSPENSION SYSTEM A. PRODUCTS: PER DECOR SCHEDULE

PART 3 - EXECUTION 3.1 INSTALLATION

- A. COMPLY WITH ASTM C 636 AND SEISMIC DESIGN REQUIREMENTS INDICATED, PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND CISCA'S "CEILING SYSTEMS HANDBOOK'
- B. SUSPEND CEILING HANGERS FROM BUILDING'S STRUCTURAL MEMBERS, PLUMB AND FREE FROM CONTRACT WITH INSULATION OR OTHER OBJECTS WITHIN CEILING PLENUM. SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS; OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTER-SPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS. WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACING'S THAT INTERFERE WITH LOCATION OF HANGERS, USE TRAPEZES OR EQUIVALENT DEVISES. WHEN STEEL FRAMING DOES NOT PERMIT INSTALLATION OF HANGER WIRES AT SPACING REQUIRED, INSTALL CARRYING CHANNELS OF OTHER SUPPLEMENTAL SUPPORT FOR ATTACHMENT OF HANGER WIRES. 1. DO NOT SUPPORT CEILINGS DIRECTLY FROM PERMANENT METAL FORMS OR FLOOR DECK; ANCHOR INTO CONCRETE SLABS
- 2. DO NOT ATTACH HANGERS TO STEEL DECK TABS OR TO STEEL ROOF DECK C. INSTALL EDGE MOLDINGS AND TRIM OF TYPE INDICATED AT PERIMETER OF ACOUSTICAL TILE CEILING AREA AND WHERE NECESSARY TO CONCEAL EDGES OF ACOUSTICAL TILES. SCREW ATTACH MOLDINGS TO SUBSTRATE AT INTERVALS NOT MORE THAN 16 INCHES (400 MM) O.C. AND NOT MORE THAN 3 INCHES (75 MM) FROM ENDS, LEVELING WITH CEILING SUSPENSION SYSTEM TO A TOLERANCE OF 1/8 INCH IN 12 FEET (3.2 MM IN 3.6 M). MITER CORNERS ACCURATELY AND CONNECT SECURELY.
- D. INSTALL SUSPENSION SYSTEM RUNNERS SO THEY ARE SQUARE AND SECURELY INTERLOCKED WITH ONE ANOTHER, REMOVE AND REPLACE DENTED, BENT, OR KINKED MEMBERS. E. INSTALL ACOUSTICAL TILES IN COORDINATION WITH SUSPENSION SYSTEM AND EXPOSED MOLDINGS
- AND TRIM. PLACE SPINES OR SUSPENSION SYSTEM FLANGES INTO KERFED EDGES TO TILE-TO-TILE JOINTS ARE CLOSED BY DOUBLE LAP OF MATERIAL.

SECTION 09645 - ACTIVITY FLOOR

PART 1 – GENERAL 1.1 SUMMARY

- A. THIS SECTION INCLUDES THE FOLLOWING:
- 1. ENGINEERED-WOOD STRIP FLOORING FOR COMMERCIAL APPLICATION 1.2 SUBMITTALS
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED
- 1.3 QUALITY ASSURANCE
- A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS COMPLETED WOOD FLOORING SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN WOOD FLOORING INSTALLATIONS WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- 1.4 PROJECT CONDITIONS
- A. CONDITIONING: MAINTAIN RELATIVE HUMIDITY PLANNED FOR BUILDING OCCUPANTS AND AN AMBIENT TEMPERATURE BETWEEN 55 AND 85 DEGREES F OR WITHIN 15 DEGREES F OF NORMAL OPERATING TEMPERATURE AND RELATIVE HUMIDITY BETWEEN 30 AND 60 PERCENT IN SPACES TO RECEIVE WOOD FLOORING FOR AT LEAST SEVEN DAYS BEFORE INSTALLATION, DURING INSTALLATION, AND FOR AT LEAST SEVEN DAYS AFTER INSTALLATION. AFTER POST-INSTALLATION PERIOD, MAINTAIN RELATIVE HUMIDITY AND AMBIENT TEMPERATURE WITHIN THE RANGES INDICATED ABOVE.
- 1. CLOSE SPACES TO TRAFFIC DURING FLOORING INSTALLATION AND FOR TIME PERIOD AFTER INSTALLATION RECOMMENDED IN WRITING BY FLOORING AND FINISH MANUFACTURERS. B. SURFACE OF THE SUBFLOOR SHALL BE LEVEL TO 1/8 INCH (3-MM) DEVIATION IN ANY
- DIRECTION WHEN CHECKED WITH AN 8-FOOT (2.44-M) STRAIGHT EDGE RADIUS. C. CONCRETE SUBFLOOR MOISTURE CONTACT FOR ENGINEERED WOOD STRIP FLOORING: 1. STANDARD INSTALLATION SHALL CONTAIN NO MORE THAN 3 LB OF WATER/ 1000 SQ. FT.
- (0.91 KG OF WATER/92.9 SQ. M) IN 24 HOURS D. INSTALL FACTORY-FINISHED WOOD FLOORING AFTER OTHER FINISHING OPERATIONS, INCLUDING PAINTING, HAVE BEEN COMPLETED.

- PART 2 PRODUCTS 2.1 ENGINEERED WOOD STRIP FLOORING
 - A. BASIS FOR DESIGN PRODUCT: IF REQUIRED THE DESIGN OF ENGINEERED WOOD STRIP FLOORING IS BASED ON PRODUCT INDICATED. SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PROVIDE THE NAMED PRODUCT OR COMPARABLE PRODUCT. 1. KAHRS INTERNATIONAL - ORIGINAL COLLECTION
 - 2. WOOD SPECIES FINISH OAK MOCHA
- 2.2 UNDERLAYMENTS INSTALL
 - A. FOR FLOATING INSTALLATION: 1. VAPOR RETARDER COMPLYING WITH ASTM D 4397, POLYETHYLENE SHEET NOT LESS THAN 6.0 MILS(0.15 MM)THICK
- PART 3 EXECUTION 3.1 EXAMINATION
- A. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT, INSTALLATION TOLERANCES, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF WORK.
- 3.2 PREPARATION A. PREPARE SUBSTRATES ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATION TO
- ENSURE ADHESION OF WOOD FLOORING PRODUCTS.
- 3.3 INSTALLATION
- A. GENERAL: COMPLY WITH FLOORING MANUFACTURER'S WRITTEN INSTRUCTIONS, AS APPLICABLE TO FLOORING TYPE
- 3.4 CLEANING AND PROTECTION A. PERFORM THE FOLLOWING OPERATIONS IMMEDIATELY AFTER COMPLETING RESILIENT PRODUCT INSTALLATION:
 - 1. REMOVE ADHESIVE AND OTHER BLEMISHES FROM EXPOSED SURFACES 2. SWEEP AND VACUUM SURFACES THOROUGHLY
 - B. PROTECT WOOD FLOORING PRODUCTS FROM MARS, MARKS, INDENTATIONS, AND OTHER DAMAGE FROM CONSTRUCTION OPERATIONS AND PLACEMENT OF EQUIPMENT AND FIXTURES DURING REMAINDER OF CONSTRUCTION PERIOD. USE PROTECTION METHODS RECOMMENDED IN WRITING BY MANUFACTURER.

SECTION 09651 - RESILIENT FLOOR & ACCESSORIES - GENERAL 1.1 SUMMARY

- A. SECTION INCLUDES: 1. VINYL PLANK FLOORING
- 2. RUBBER SHEET FLOORING
- 3. VINYL COMPOSITION FLOOR TILE 4. RESILIENT BASE
- 1.2 SUBMITTALS
- 1.3 PROJECT CONDITIONS
- TO RECEIVE FLOOR TILE. B. UNTIL SUBSTANTIAL COMPLETION, MAINTAIN AMBIENT TEMPERATURES WITHIN RANGE RECOMMENDED
- BY MANUFACTURER.
- D. CLOSE SPACES TO TRAFFIC FOR 48 HOURS AFTER FLOOR INSTALLATION
- COMPLETED.

PART 2 - PRODUCTS

- 2.1 PRODUCT DATA: A. AS INDICATED ON DECOR SCHEDULE
- 2.2 INSTALLATION MATERIALS
- MANUFACTURER FOR APPLICATIONS INDICATED.
- SUBSTRATE CONDITIONS INDICATED.

PART 3 - EXECUTION 3.1 PREPARATION

- ADHESION OF RESILIENT PRODUCTS. B. CONCRETE SUBSTRATES: PREPARE ACCORDING TO ASTM F 710
- HARDENERS
- RECOMMENDED BY MANUFACTURER. DO NOT USE SOLVENTS.
- SUBSTRATE
- INSTALLED
- BEFORE INSTALLATION. 3.2 CLEANING AND PROTECTION
- OF FLOOR B. COVER FLOOR UNTIL SUBSTANTIAL COMPLETION

SECTION 09681 - CARPET TILE PART 1 - GENERAL

1.1 SUMMARY

- 1.2 SUBMITTALS
- A. PRODUCT DATA: FOR EACH PRODUCT INDICATED
- 1.3 DELIVERY, STORAGE, AND HANDLING A. COMPLY WITH CRI 104, SECTION 5, "STORAGE AND HANDLING."
- 1.4 PROJECT CONDITIONS 7.12, "VENTILATION" SECTION COMPLETE MAINTAINED AT THE LEVELS USF.
- RECOMMENDED BY CARPET TILE MANUFACTURER.

PART 2 - PRODUCTS 2.1 CARPET TILE

- A. AS INDICATED ON DECOR SCHEDULE
- 2.2 INSTALLATION ACCESSORIES REQUIREMENTS FOR

MANUFACTURER FOR RELEASABLE

PART 3 – EXECUTION

3.1 INSTALLATION

SECTION 09720 - WALL COVERINGS/ GRAPHIC WALL PART 1 – GENERAL 1.1 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING: 1. VINYL WALL COVERING AND GRAPHIC WALL INSTALLATION

1.2 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED

PART 2 - PRODUCTS 2.1 MANUFACTURERS

- A. AS INDICATED ON DECOR SCHEDULE
- 2.2 ACCESSORIES
- MANUFACTURER
- B. ADHESIVE GRAPHIC WALL: ROMAN PRO 555 VINYL OVER VINYL ADHESIVE. ROMAN PRO 838 HEAVY

3.1 PREPARATION – WALLCOVERING

- VINYL ADHESIVE.
- PART 3 EXECUTION

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED

A. MAINTAIN AMBIENT TEMPERATURES WITHIN RANGE RECOMMENDED BY MANUFACTURER IN SPACES

C. CLOSE SPACES TO TRAFFIC DURING FLOOR INSTALLATION

E. INSTALL FLOOR AFTER OTHER FINISHING OPERATIONS, INCLUDING PAINTING, HAVE BEEN

A. TROWELABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT BASED OR BLENDED HYDRAULIC-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY B. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT FLOOR AND

A. PREPARE SUBSTRATES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE

1. VERIFY THAT SUBSTRATES ARE DRY AND FREE OF CURING COMPOUNDS, SEALERS, AND 2. REMOVE SUBSTRATE COATINGS AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OIL, OR SILICONE, USING MECHANICAL METHODS

3. ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING C. FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES WITH TROWELABLE LEVELING AND PATCHING COMPOUND AND REMOVE BUMPS AND RIDGES TO PRODUCE A UNIFORM AND SMOOTH

D. DO NOT INSTALL FLOOR UNTIL THEY ARE SAME TEMPERATURE AS SPACED WHERE THEY ARE TO BE 1. MOVE RESILIENT PRODUCTS AND INSTALLATION MATERIALS INTO SPACES WHERE THEY WILL BE INSTALLED AT LEAST 48 HOURS IN ADVANCE OF INSTALLATION.

E. SWEEP AND VACUUM CLEAN SUBSTRATES TO BE COVERED BY RESILIENT PRODUCTS IMMEDIATELY

A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CLEANING AND PROTECTION

A. THIS SECTION INCLUDES INSTALLATION OF MODULAR CARPET TILE

A. COMPLY WITH CRI 104, SECTION 7.2, "SITE CONDITIONS; TEMPERATURE AND HUMIDITY" AND

B. ENVIRONMENTAL LIMITATIONS: DO NOT INSTALL CARPET TILES UNTIL WET WORK IN SPACES IS AND DRY, AND AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS ARE INDICATED FOR PROJECT WHEN OCCUPIED FOR ITS INTENDED

C. DO NOT INSTALL CARPET TILES OVER CONCRETE SLABS UNTIL SLABS HAVE PH RANGE

A. TROWELABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, HYDRAULIC-CEMENT-BASED FORMULATION PROVIDED OR RECOMMENDED BY CARPET TILE MANUFACTURER. B. ADHESIVES: WATER-RESISTANT, MILDEW-RESISTANT, NON-STAINING, PRESSURE-SENSITIVE TYPE TO PRODUCTS AND SUBFLOOR CONDITIONS INDICATED, THAT COMPLIES WITH FLAMMABILITY INSTALLED CARPET TILE AND IS RECOMMENDED BY CARPET TILE INSTALLATION.

A. GENERAL: COMPLY WITH CRI 104. SECTION 14. "CARPET MODULES." AND WITH CARPET TILE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

A. ADHESIVE WALLCOVERING: MILDEW-RESISTANT, NONSTAINING ADHESIVE, FOR USE WITH SPECIFIC WALL COVERING AND SUBSTRATE APPLICATION, AS RECOMMENDED IN WRITING BY WALL-COVERING

C. PRIMER: SHERWIN WILLIAMS PRE-WALLCOVERING MILDEW-RESISTANT PRIMER.

A. PREPARE SUBSTRATES TO ACHIEVE A SMOOTH, DRY, CLEAN, STRUCTURALLY SOUND SURFACE FREE OF FLAKING, UNSOUND COATINGS, CRACKS, AND DEFECTS. 1. MOISTURE CONTENT: MAXIMUM OF 5 PERCENT ON NEW PLASTER, CONCRETE, AND CONCRETE MASONRY UNITS WHEN TESTED WITH AN ELECTRONIC MOISTURE METER.

2. GYPSUM BOARD: PRIME WITH PRIMER RECOMMENDED BY WALL-COVERING MANUFACTURER. 3. CHECK PAINTED SURFACES FOR PIGMENT BLEEDING. SAND GLOSS, SEMI-GLOSS, AND EGGSHELL FINISHES WITH FINE SANDPAPER. B. REMOVE HARDWARE AND HARDWARE ACCESSORIES, ELECTRICAL PLATES AND COVERS, LIGHT

FIXTURE TRIMS AND SIMILAR ITEMS. C. ACCLIMATIZE WALL-COVERING MATERIALS BY REMOVING THEM FROM PACKAGING IN THE

INSTALLATION AREAS NOT LESS THAN 24 HOURS BEFORE INSTALLATION.

3.2 INSTALLATION - WALLCOVERING A. CUT WALL-COVERING STRIPS IN ROLL NUMBER SEQUENCE. CHANGE ROLL NUMBERS AT PARTITION

- BREAKS AND CORNERS B. INSTALL STRIPS IN SAME ORDER AS CUT FROM ROLL C. INSTALL WALL COVERING WITH NO GAPS OR OVERLAPS, NO LIFTED OR CURLING EDGES, AND NO VISIBLE SHRINKAGE
- D. INSTALL SEAMS VERTICAL AND PLUMB AT LEAST 6 INCHES (150 MM) FROM OUTSIDE CORNERS AND FROM INSIDE CORNERS UNLESS A CHANGE OF PATTERN OR COLOR EXISTS AT CORNER. NO HORIZONTAL SEAMS ARE PERMITTED.
- E. FULLY BOND WALL COVERING TO SUBSTRATE. REMOVE AIR BUBBLES, WRINKLES, BLISTERS, AND OTHER DEFECTS
- F. TRIM EDGES AND SEAMS FOR COLOR UNIFORMITY, PATTERN MATCH, AND TIGHT CLOSURE. BUTT SEAMS WITHOUT ANY OVERLAY OR SPACING BETWEEN STRIPS.
- 3.3 PREPARATION / INSTALLATION GRAPHIC WALL
- A. PRIME GYPSUM BOARD WITH PRE-WALL COVERING PRIMER B. 1 COAT ROMAN PRO 555 AT EDGES, 2" MINIMUM COVERAGE, ALLOW TO DRY
- C. PROVIDE 2ND COAT OF ROMAN PRO 555 TO EDGES THE REMAINING PORTION OF THE WALL 1
- COAT ROMAN PRO 838 AND APPLY GRAPHICS D. AFTER 48 HOURS COVER GRAPHIC WITH SHERWIN WILLIAMS WATERBORNE POLYURETHANE VARNISH SATIN

SECTION 09772 - FIBERGLASS REINFORCED WALL PANELS

PART 1 – GENERAL 1.1 SUMMARY

- A. SECTION INCLUDES: PREFINISHED POLYESTER GLASS REINFORCED PLASTIC SHEETS AND ADHERED TO UNFINISHED GYPSUM WALLBOARD. 1.2 SUBMITTALS
- A. PRODUCT DATA: SUBMIT SUFFICIENT MANUFACTURER'S DATA TO INDICATE COMPLIANCE WITH THESE SPECIFICATIONS
- 1.3 PROJECT CONDITIONS A. ENVIRONMENTAL LIMITATIONS: BUILDING ARE TO BE FULLY ENCLOSED PRIOR TO INSTALLATION WITH SUFFICIENT HEAT (70 DEGREES F) AND VENTILATION CONSISTENT WITH GOOD WORKING
- B. DURING INSTALLATION AND FOR NOT LESS THAN 48 HOURS BEFORE, MAINTAIN AN AMBIENT TEMPERATURE AND RELATIVE HUMIDITY WITHIN LIMITS REQUIRED BY TYPE OF ADHESIVE USED AND RECOMMENDATION OF ADHESIVE MANUFACTURER.
- RECOMMENDED BY THE ADHESIVE MANUFACTURER.

PART 2 - PRODUCTS

A. AS INDICATED ON DECOR SCHEDULE

2.2 ACCESSORIES

- A. ADHESIVE: CONSTRUCTION ADHESIVES AS RECOMMENDED BY MANUFACTURER COMPLYING WITH ASTM C 557
- PART 3 EXECUTION 3.1 PREPARATION
- A. EXAMINE BACKUP SURFACES TO DETERMINE THAT CORNERS ARE PLUMB AND STRAIGHT, SURFACES ARE SMOOTH, UNIFORM, CLEAN AND FREE FROM FOREIGN MATTER, NAILS COUNTERSUNK, JOINTS AND CRACKS FILLED FLUSH AND SMOOTH WITH THE ADJOURNING SURFACE.
- B. REPAIR DEFECTS PRIOR TO INSTALLATION 1. LEVEL WALL SURFACES TO PANEL MANUFACTURER'S REQUIREMENTS. REMOVE PROTRUSIONS AND FILL INDENTATIONS.
- 3.2 INSTALLATION A. COMPLY WITH MANUFACTURER'S RECOMMENDED PROCEDURES AND INSTALLATION SEQUENCE.
- 3.3 CLEANING
- A. REMOVE EXCESS SEALANT FROM PANELS AND MOLDINGS. WIPE PANEL DOWN USING A DAMP CLOTH AND MILD SOAP SOLUTION OR CLEANER. B. REFER TO MANUFACTURER'S SPECIFIC CLEANING RECOMMENDATIONS. DO NOT USE ABRASIVE CLEANERS.
- SECTION 09900 PAINTING

PART 1 – GENERAL 1.1 WORK INCLUDED

- A. SURFACE PREPARATION
- B. FIELD APPLICATION OF PAINTS, STAINS, VARNISHES, AND OTHER COATINGS
- PART 2 PRODUCTS
- 2.1 PRODUCTS
- A. AS INDICATED ON DECOR SCHEDULE
- PART 3 EXECUTION 3.1 PREPARATION
- A. SURFACES: CORRECT DEFECTS AND CLEAN SURFACES WHICH AFFECT WORK OF THIS SECTION. REMOVE OR REPAIR EXISTING COATING THAT EXHIBIT SURFACE DEFECTS. B. MARKS: SEAL WITH SHELLAC THOSE WHICH MAY BLEED THROUGH SURFACE FINISHES.
- C. IMPERVIOUS SURFACES: REMOVE MILDEW BY SCRUBBING WITH SOLUTION OF TRI-SODIUM
- PHOSPHATE AND BLEACH. RINSE WITH CLEAN WATER AND ALLOW SURFACE TO DRY COMPLETELY. D. ALUMINUM SURFACES SCHEDULED FOR PAINT FINISH: REMOVE SURFACE CONTAMINATION BY STEA OR HIGH PRESSURE WATER. REMOVE OXIDATION WITH ACID ETCH AND SOLVENT WASHING. APPLY ETCHING PRIMER IMMEDIATELY FOLLOWING CLEANING.
- E. GYPSUM BOARD SURFACES: FILL MINOR DEFECTS WITH FILLER COMPOUND. SPOT PRIME DEFECTS AFTER REPAIR.
- F. GALVANIZED SURFACES: REMOVE SURFACE CONTAMINATION AND OILS AND WASH WITH SOLVENT.APPLY COAT OF ETCHING TYPE PRIMER.
- G. CONCRETE AND UNIT MASONRY SURFACES SCHEDULED TO RECEIVE PAINT FINISH: REMOVE DIRT, LOOSE MORTAR, SCALE, POWDER, AND OTHER FOREIGN MATTER. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE, RINSE WELL AND ALLOW TO THOROUGHLY DRY. REMOVE STAINS CAUSED BY WEATHERING OF CORRODING METALS WITH A SOLUTION OF SODIUM
- METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY. H. PLASTER SURFACES: FILL HAIRLINE CRACKS, SMALL HOLES, AND IMPERFECTIONS ON PLASTER SURFACES WITH PATCHING PLASTER. MAKE SMOOTH AND FLUSH WITH ADJACENT SURFACES. WASH AND NEUTRALIZE HIGH ALKALI SURFACES.
- I. UNCOATED STEEL AND IRON SURFACES: REMOVE GREASE, MILL SCALE, WELD SPLATTER, DIRT, AND RUST. WHERE HEAVY COATINGS OF SCALE ARE EVIDENT, REMOVE BY WIRE BRUSHING OR SANDBLASTING: CLEAN BY WASHING WITH SOLVENT. APPLY A TREATMENT OF PHOSPHORIC ACID SOLUTION, ENSURING WELD JOINTS, BOLTS AND NUTS ARE SIMILARLY CLEANED. SPOT PRIME PAINT
- AFTER REPAIRS. J. UNPRIMED STEEL SURFACES: CLEAN BY WASHING WITH SOLVENT. APPLY A TREATMENT OF PHOSPHORIC ACID SOLUTION, ENSURING WELD JOINTS, BOLTS AND NUTS ARE SIMILARLY CLEANED.
- PRIME SURFACES TO INDICATE DEFECTS, IF ANY. PAINT AFTER DEFECTS HAVE BEEN REMEDIED. K. SHOP PRIMED STEEL SURFACES: SAND AND SCRAPE TO REMOVE LOOSE PRIMER AND RUST. FEATHER EDGES TO MAKE TOUCH-UP PATCHES INCONSPICUOUS. CLEAN SURFACES WITH SOLVENT. PRIME BARE STEEL SURFACES.
- L. INTERIOR WOOD ITEMS SCHEDULED TO RECEIVE PAINT FINISH: WIPE OFF DUST AND GRIT PRIOR TO PRIMING. SEAL KNOTS, PITCH STREAKS, AND SAPPY SECTIONS WITH SEALER. FILL NAIL HOLES AND CRACKS AFTER PRIMER HAS DRIED; SAND BETWEEN COATS. BACK PRIME INTERIOR WOODWORK. M. INTERIOR WOOD ITEMS SCHEDULED TO RECEIVE TRANSPARENT FINISH: WIPE OFF DUST AND GRIT
- PRIOR TO PRIMING. SEAL KNOTS, PITCH STREAKS, AND SAPPY SECTIONS WITH SEALER. FILL NAIL HOLES AND CRACKS AFTER SEALER HAS DRIED, SAND LIGHTLY BETWEEN COATS. N. METAL DOORS SCHEDULED FOR PAINTING: PRIME METAL DOOR TOP AND BOTTOM EDGE SURFACES.
- 3.2 APPLICATION
- A. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AS SPECIFIED, AND AS RECOMMENDED BY THE MANUFACTURER.
- 3.3 SCHEDULE INTERIOR
- A. WOOD TRANSPARENT: FILLER COAT (FOR OPEN GRAINED WOOD ONLY) WITH ONE COAT OF ALKYD-BASED STAIN, ONE COAT OF CLEAR SANDING SEALER AND TWO FINISH COATS OF
- ALKYD-BASED OR POLYURETHANE SATIN VARNISH. B. STEEL - UNPRIMED: ONE COAT OF RUST-INHIBITIVE, ALKYD-BASED OR EPOXY-METAL PRIMER WITH TWO FINISH COATS OF INTERIOR ODORLESS, SEMI-GLOSS ALKYD ENAMEL.
- C. STEEL PRIMED: TOUGH-UP OF SHOP PRIMER AND TWO FINISH COATS OF INTERIOR ODORLESS, SEMI-GLOSS ALKYD ENAMEL.
- D. STEEL GALVANIZED: ONE COAT GALVANIZED METAL PRIMER WITH TWO FINISH COATS OF INTERIOR ODORLESS, SEMI-GLOSS ALKYD ENAMEL.

- CONDITIONS FOR FINISH WORK. 1. PROVIDE VENTILATION TO DISPERSE FUMES DURING APPLICATION OF ADHESIVE AS

2.1 ACCEPTABLE MANUFACTURER

E. PLASTER AND GYPSUM BOARD: ONE COAT OF LATEX-BASED, INTERIOR PRIMER WITH TWO FINISH COATS OF ACRYLIC-LATEX INTERIOR PAINT; FLAT FINISH AT CEILING AND SOFFIT APPLICATIONS, AND EGGSHELL FINISH AT WALL APPLICATIONS.

3.4 OTHERS A. PAINTING OF ALL WALL SURFACES TO BE COMPLETED PRIOR TO THE INSTALLATION OF ANY WALL TRIM OR PANELING.

SECTION 09900 - FIRE EXTINGUISHERS

PART 1 – GENERAL 1.1 SUMMARY

A. SECTION INCLUDES PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS AND MOUNTING BRACKETS FOR FIRE EXTINGUISHERS.

1.2 SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED
- 1.3 QUALITY ASSURANCE
- A. NFPA COMPLIANCE: FABRICATE AND LABEL FIRE EXTINGUISHERS TO COMPLY WITH NFPA 10, "PORTABLE FIRE EXTINGUISHERS" B. FIRE EXTINGUISHERS: LISTED AND LABELED FOR TYPE, RATING, AND CLASSIFICATION BY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

PART 2 – PRODUCTS

2.1 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS A. FIRE EXTINGUISHERS: TYPE, SIZE, AND CAPACITY FOR EACH MOUNTING BRACKET INDICATED. B. MULTIPURPOSE DRY-CHEMICAL TYPE 2A-10B:C. UL-RATED NOMINAL CAPACITY, WITH PHOSPHATE-BASED DRY CHEMICAL IN MANUFACTURER'S STANDARD MONOAMMONIUM ENAMELED CONTAINER.

2.2 MOUNTING BRACKETS

A. MOUNTING BRACKETS: MANUFACTURER'S STANDARD STEEL, DESIGNED TO SECURE FIRE EXTINGUISHER TO WALL OR SURFACE, OF SIZES REQUIRED FOR TYPES AND CAPACITIES OF FIRE EXTINGUISHERS INDICATED.

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. EXAMINE FIRE EXTINGUISHERS FOR PROPER CHARGING AND TAGGING
- 1. REMOVE AND REPLACE DAMAGED, DEFECTIVE, OR UNDERCHARGED FIRE EXTINGUISHERS. B. INSTALL FIRE EXTINGUISHERS AND MOUNTING BRACKETS IN LOCATIONS INDICATED AND IN COMPLIANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. 1. MOUNTING BRACKETS: 54 INCHES (1372 MM) ABOVE FINISHED FLOOR TO TOP OF FIRE
- EXTINGUISHER C. MOUNTING BRACKETS: FASTEN MOUNTING BRACKETS TO SURFACES, SQUARE AND PLUMB, AT LOCATION INDICATED

SECTION 10801 - TOILET AND BATH ACCESSORIES

- 1 GENERAL 1.1 SUMMARY A. THIS SECTION INCLUDES THE FOLLOWING:
- 1. PUBLIC-USE WASHROOM ACCESSORIES
- 2. PUBLIC-USE SHOWER ROOM ACCESSORIES 3. WARM-AIR DRYERS
- 4. UNDER-LAVATORY GUARDS

1.2 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED

PART 2 – PRODUCTS 2.1 PUBLIC-USE WASHROOM ACCESSORIES

A. BASIS FOR DESIGN PRODUCT: THE DESIGN FOR ACCESSORIES IS BASED ON PRODUCT INDICATED. SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PROVIDE THE NAMED PRODUCT OR A COMPARABLE PRODUCT.

- 1. BOBRICK WASHROOM EQUIPMENT, INC. 2. GAMCO COMMERCIAL RESTROOM ACCESSORIES
- 3. BREY KRAUSE B. MULTI-ROLL TOILET TISSUE DISPENSER B-2888
- C. HAND DRYER DYSON AIRBLADE V
- D. LIQUID-SOAP DISPENSER B-2112
- GRAB BAR, BREY KRAUSE D-78XX-SS F. MIRROR UNIT, BREY KRAUSE T-1024-36-SS
- G. TOILETRY SHELF: MS-18
- H. ROBE HOOK: B-670 I. TOWEL BAR: B-530-24
- J. SHOWER CURTAIN ROD: B-6107
- K. SHOWER CURTAIN: 204 SERIES WITH CURTAIN HOOKS L. FOLDING SHOWER SEAT: B-5181
- M. TWO WALL SHOWER GRAB BAR: B-6861

2.2 SHOWER SHELF

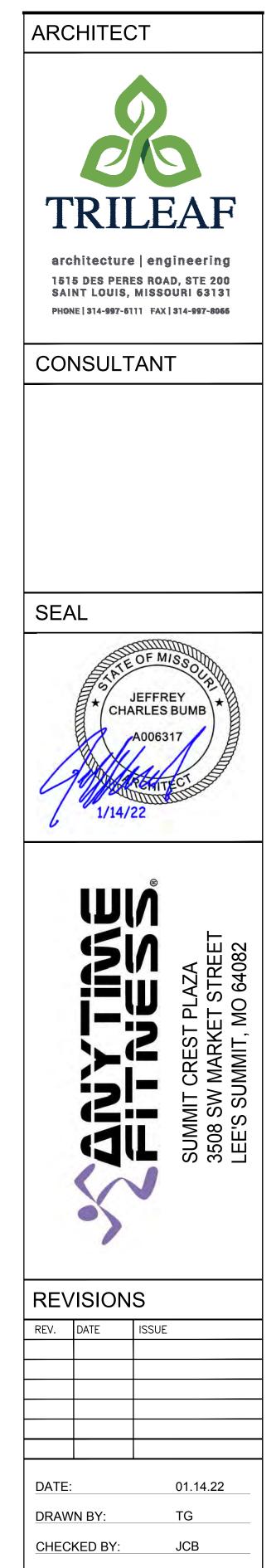
- A. AVAILABLE MANUFACTURER'S: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: 1. INTERDESIGN EASY LOCK PRO L-SHAPED CORNER BASKET, STAINLESS STEEL MODEL 44220
- 2.3 WARM-AIR DRYERS IF REQUIRED
- A. AVAILABLE MANUFACTURER'S: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: 1. XLERATOR MODEL NO: XL-W

2.4 UNDER-LAVATORY GUARDS

A. UNDER-LAVATORY GUARD: PROVIDE AT ALL LAVATORIES DRAINAGE PIPING

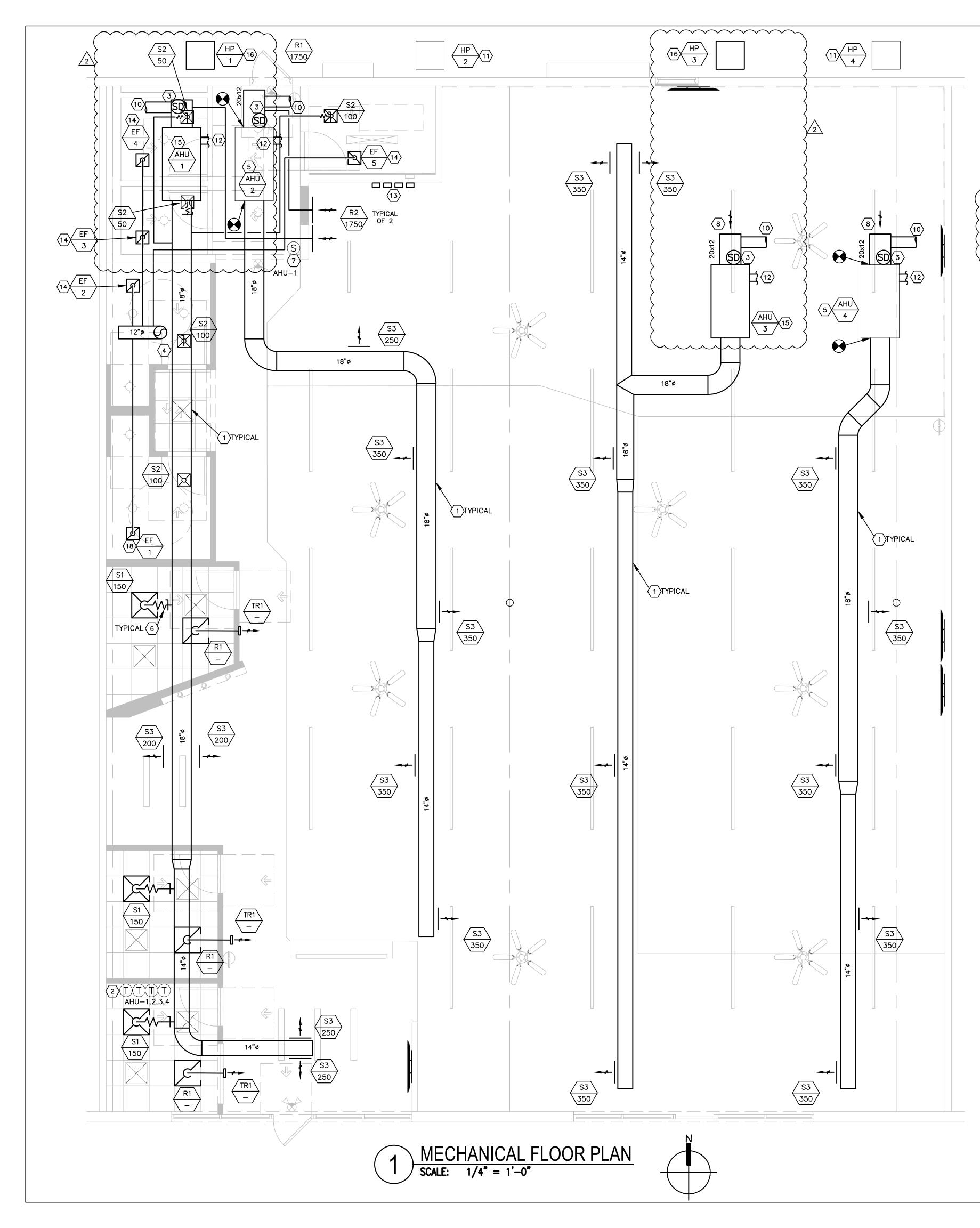
PART 3 – EXECUTION 3.1 INSTALLATION

A. INSTALL ACCESSORIES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, USING FASTENERS APPROPRIATE TO SUBSTRATE INDICATED AND RECOMMENDED BY UNIT MANUFACTURER. INSTALL UNITS LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED.



SPECIFICATIONS

PROJECT NUMBER: 689411



SMOKE DETECTOR REQUIREMENTS

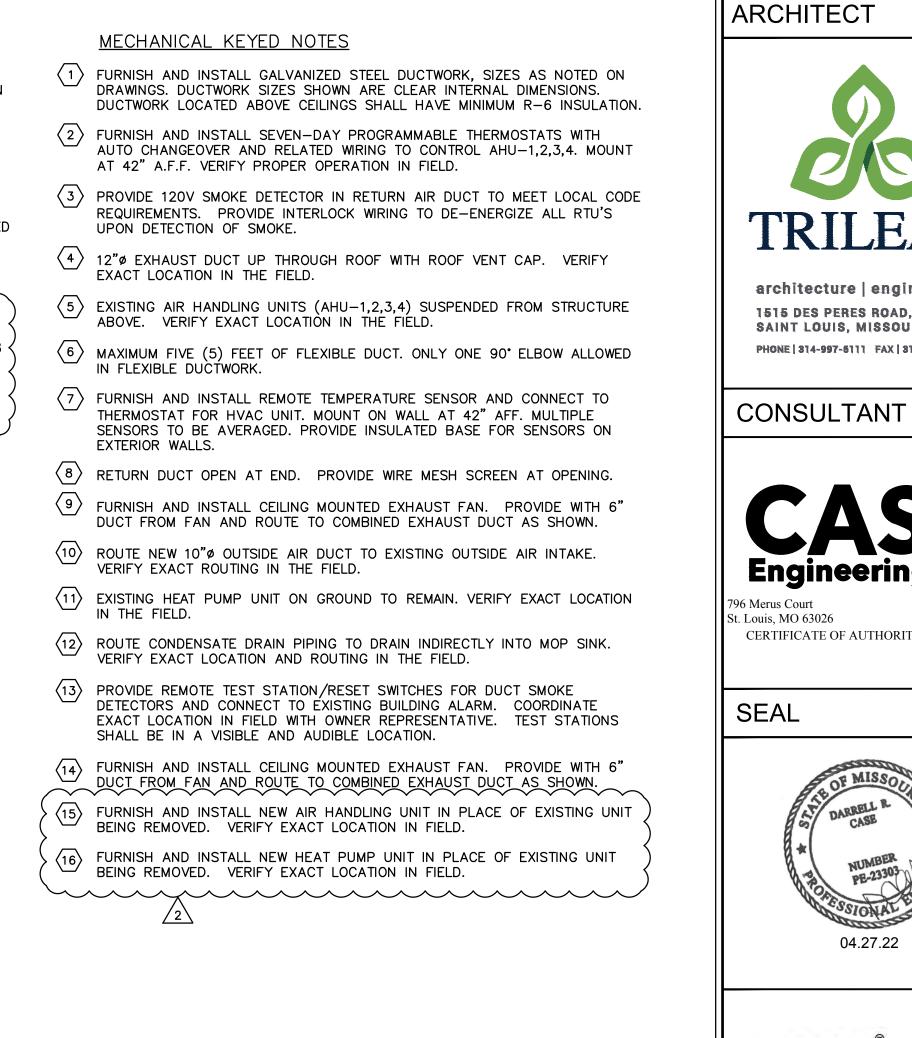
DUCT SMOKE DETECTORS INSTALLED IN DUCTS SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY PRESENT IN THE DUCT. DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING'S FIRE ALARM CONTROL UNIT WHEN A FIRE ALARM SYSTEM IS REQUIRED BY SECTION 907.2 OF THE INTERNATIONAL FIRE CODE. ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION AND SHALL PERFORM THE INTENDED FIRE SAFETY FUNCTION IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL & FIRE CODES. DUCT SMOKE DETECTORS SHALL NOT BE USED AS A SUBSTITUTE FOR REQUIRED OPEN AREA DETECTION.

AIR HANDLING UNIT WEIGHT INFORMATION

WEIGHT OF EXISTING AIR HANDLING UNITS BEING REMOVED IS 168 < LBS.

WEIGHT OF NEW AIR HANDLING UNITS BEING INSTALLED IN PLACE OF THE EXISTING IS 138 LBS.

	MECHANICAL SY	'MBOLS	S LEGEND
(T)	THERMOSTAT	— D —	CONDENSATE DRAIN
		— G —	GAS PIPING
(s)	TEMPERATURE SENSOR		PIPE TURNING DOWN
(SD)	SMOKE DETECTOR	0	PIPE TURNING UP
		<u> </u>	BALL VALVE
-~~-	FLEXIBLE DUCT	—	GATE VALVE
	VOLUME DAMPER	Θ	CONNECTION OF NEW TO EXISTING
FD	FIRE DAMPER	- <u></u> N	CHECK VALVE
Ř		ј б	GAS COCK
B	CEILING SUPPLY AIR DIFFUSER		UNION
		Q	PRESSURE GAUGE
<u>c</u> m	CEILING RETURN AIR GRILLE	+ \$ +	STRAINER
—	SIDEWALL AIR DIFFUSER OR GRILLE	AFF	ABOVE FINISHED FLOOR
	NEW DUCTWORK	S1	AIR DEVICE # S - SUPPLY
	EXISTING DUCTWORK	100	CFM R – RETURN E – EXHAUST

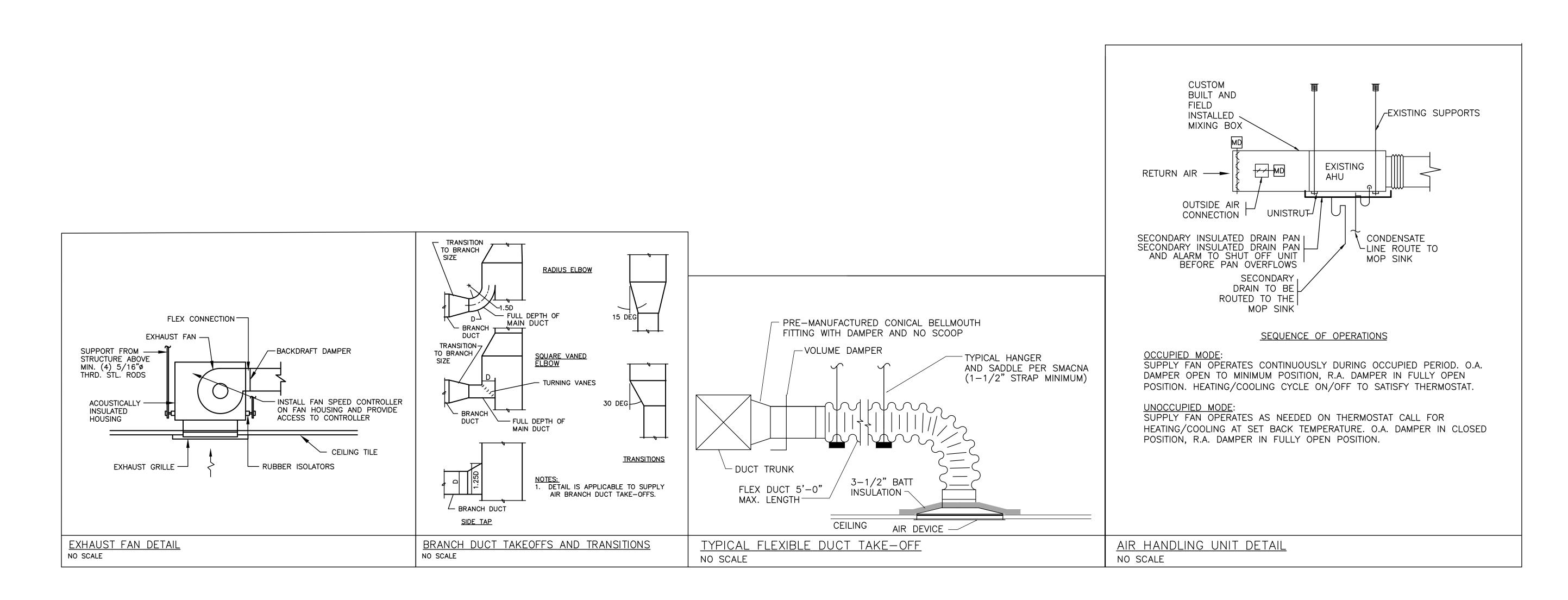


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CA Engine 796 Merus Court St. Louis, MO 63026	SE
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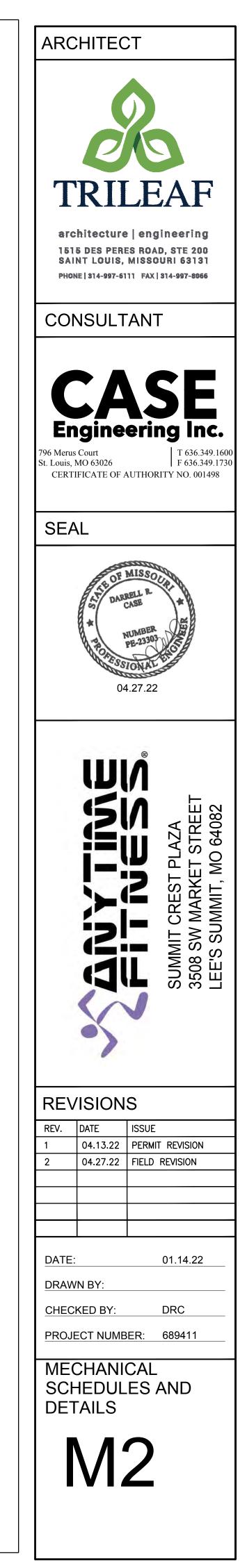
					AIR H	ANDLING	UNIT S	SCHEDU	LE					
MARK	MANUFACTURER	MODEL NO.		O.A. CFM	EXT. SP.	COOLING TONS		NG MBH	ELECTRIC HEATING KW	SUPPLY FAN HP	ELECT		WEIGHT	REMARKS
AHU-1	TRANE	TEM4A0C60S51SC	1750	300	0.5	5	60	45	24	3/4	73	80	138	1,2,4
AHU-2	EXISTING	EXISTING	1750	380		\sim					EXISTING	EXISTING		
AHU-3	TRANE	TEM4A0C60S51SC	1750	300	0.5	5	60	45	24	3/4	73	80	138	1,2,4
AHU-4	EXISTING	EXISTING	1750	380	<u> </u>	5	<u> </u>		$\underline{-}$	<u> </u>	EXISTING	EXISTING	$\overline{-}$	1,2,3
AHU-4 EXISTING EXISTING 1750 380 - 5 EXISTING EXISTING - 1,2,3 1. REMOTE HEAT PUMP UNIT ON GROUND. VERIFY EXACT LOCATION IN FIELD. 2. PROVIDE 30% FILTERS AND INSTALL WITH EASY ACCESS TO FILTERS. 3. EXISTING UNIT TO REMARK. VERIFY ELECTRICAL WIFORMATION WITH ELECTRICAL CONTRACTOR VID FIELD. 4. REPLACE EXISTING AIR HANDLING UNIT WITH NEW PER SCHEDULE. VERIFY EXACT LOCATION IN FIELD.														

					ł	HEAT	PUMP UN	IT SCHEDULE	-					
			COOLING	тот.	COOLING SENS.	CAPAC AMB	TY REF.	HEATING MBH		ELEC	TRICAL	WEIGHT	EER/SEER	REMARKS
MARK	MANUFACTURER	MODEL	TONS	MBH	MBH	F	TYPE		MCA	MQCR	VOLT/RHASE_	LBS	$\sim\sim\sim$	
HP-1	TRANE	4TWRA060G	5	60	45	95	R-410a	45	32	50	208/1	-	EXISTING	3
E	EXISTING	EXISTING						EXISTING	22.9		208/3		EXISTING	
HP-3	TRANE	4TWRA060G	5	60	45	95	R-410a	45	32	50	208/1	_	EXISTING	3
HP-4	EXISTING	EXISTING	\sim	~ 2	$\overline{\gamma}$	$\overline{-}$		EXISTING	21.1	30	208/3	\sim	EXISTING	1,2~
1. EXISTING HEAT PUMP UNIT ON GROUND BEHIND SPACE TO REMAIN. VERIFY EXACT LOCATION IN FIELD. 2. VERIFY EXISTING ELECTRICAL WFORMATION WITH ELECTRICAL CONTRACTOR WI FIELD. 3. REPLACE EXISTING HEAT PUMP UNIT WITH NEW PER SCHEDULE. VERIFY EXACT LOCATION IN FIELD.														

		FA	AN S	CHED	OULE						AIR [DEVICE	SCHED	DULE		
MARK	MANUFACTURER	MODEL NO.	CFM	SP	WATTS	SONE	VOLTS/PH	WEIGHT	REMARKS	PLAN MARK	MANUFACTURER	MODEL	MATL.	FRAME TYPE	PANEL SIZE	NOTES
EF-1,2	GREENHECK	SP-A200	150	.3	30	1.5	115/1	24 LBS.	1,2,3	S1	TITUS	OMNI	ST	LAY-IN	24"x24"	1,2,3
EF-3,4,5	GREENHECK	SP-A110	75	.3	16	0.9	115/1	17 LBS.	1,2,3	S2	TITUS	300RL	ST	FLANGED	12"x12"	1,2,3
	ELECTRICAL VOLTA	ACE /PHASE WITH			CONTRA					S3	TITUS	S300FL	ST	DUCT	20"x4"	1,2,4
2. PROVIDE	WITH BACKDRAF	T DAMPER AND	FAN S	PEED	CONTROLL	ER.										
3. FAN SH	ALL BE CONTROLL	ED BY LIGHTS,	COORD	INATE	WITH ELE	CTRICAL	CONTRACTO)R		TR1	TITUS	350RL	ST	FLANGED	12"x8"	1,3
										R1	TITUS	350RL	ST	LAY-IN	24"x24"	1,2,3
										R1	TITUS	350RL	ST	WALL MOUNT	24"x24"	1,2,3
										E1	TITUS	350RL	ST	FLANGED	12"x12"	1,2,3
										1. CO 2. REI 3. SEI 4. PR	LOR TO BE WHITE. FERENCE ARCHITECT E RUNOUT SCHEDULI OVIDE WITH AIR SCO	URAL DRAW E FOR NECK OP DEVICE.	INGS FOR	R LAY IN GRID	STYLE.	



DIFFUSER NECK/RUNOUT SIZE SCHEDULE									
NECK SIZE	CFM								
6"ø	0 — 100								
8"ø	110 — 250								
10 " ø	260 - 400								
12 " ø	410 - 600								
14"ø	610 - 1000								
16"ø	1010 — 1400								
18"ø	1410 - 1900								



DIVISION - 15 MECHANICAL SPECIFICATIONS

- A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.
- B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CON-STRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOW-ANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY **RESPONSIBILITY.**

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICA-TIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

- A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHER-WISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COM-PLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCON-TRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

- EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PRO-TECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.
- B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSUR-ANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT. WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CON-JUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFER-ENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED. CONTRACTOR ASSUMES ALL RESPONSIBILIES AND COST IMPACTS OF SUBSTITUTIONS.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

- INDICATED.
- BOTH REMODELED AND NEW STORES.

Α.

HEATING, VENTILATING AND AIR CONDITIONING GENERAL

- RESPECT.

EXAMINATION OF SITE AFFECT THE WORK UNDER THIS CONTRACT.

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COM-PLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

THERMOSTAT. BE AS FOLLOWS:

COOLING:

HEATING: 70°F MAXIMUM OCCUPIED HEATING TEMPERATURE

DEADBAND: CAPABLE OF MAINTAINING A 5°F DEADBAND. CLOCK: 7 DAY CAPABLE OF 7 DIFFERENT DAY SCHEDULES. OVERNIGHT: HAVE A 2 HOUR OVERRIDE ACCESSIBLE TO MANAGER. BACKUP: CAPABLE OF MAINTAINING PROGRAMMED SETTING FOR AT

F. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC FOUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE 12" AND LESS 13" TO 30" 31" TO 54" 55" TO 84" 85" AND OVER

SIZE

17" AND LESS 18"TO 30"

31" TO 54"

ROUND SPIRAL DUCTWORK SHALL BE LINK FACTORY PAINTED SPIRAL DUCTWORK AND FITTINGS OR APPROVED EQUAL. INSTALLED AND SUSPENDED AS PER MANUFACTURER'S RECOMMENDATIONS. GAUGES FOR SHOP FABRICATED DUCTS SHALL BE AS FOLLOWS: UP TO 12" IN DIAMETER 13" TO 30"

31" TO 42"

43" TO 60"

ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER AND MAY BE SMOOTH ELBOWS OR 5 PIECE 90 DEGREE ELBOWS AND 3 PIECE 45 DEGREE ELBOWS. JOINTS OF ROUND DUCTS SHALL BE SLIP TYPE WITH A MINIMUM OF 3 SHEET METAL SCREWS.

- 1. NOT USED.

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DES-CRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

RESPONSIBILITY A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PRO-VIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR

THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS. INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CON-DITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY

THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY

E. ALL HVAC UNITS WILL BE EQUIPPED WITH PROGRAMMABLE

DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL

75°F MAXIMUM OCCUPIED COOLING TEMPERATURE 85°F COOLING NIGHT SETBACK.

60°F HEATING NIGHT SETBACK. FAN: CONTINUOUS IN OCCUPIED AND RECOVERY MODE AND WITH

HEATING OR COOLING EQUIPMENT IN UNOCCUPIED MODE.

LEAST 10 HOURS WITHOUT POWER.

GAU	<u>GE</u>		
NO.	26	U.S.	GAUGE
NO.	24	U.S.	GAUGE
NO.	22	U.S.	GAUGE
NO.	20	U.S.	GAUGE

NO. 18 U.S. GAUGE

SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

METHOD
"S" AND DRIVE CLEATS
"L" STANDING SEAMS ON
3'-0" CENTERS
1-1/4" STANDING SEAMS
ON 3'-0" CENTERS

२	NO.	26	GAUGE
	NO.	24	GAUGE
	NO.	22	GAUGE
	NO.	20	GAUGE

2. ALL LOW PRESSURE DUCTWORK SHALL BE EXTERNALLY SEALED USING UNITED SHEET METAL, MMM EC-800, OR HARDCAST DUCT SEALER INSTALLED IN THE JOINTS PRIOR TO CLOSURE. ADDITIONALLY SEAL ALL EXTERNAL TRANSVERSE JOINTS AND FITTING CONNECTIONS EXTERNALLY.

C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MIN. 1-1/2" (R-6) THICK EXTERNAL THERMAL INSULATION EXCEPT DUCT LINED FOR ACOUSTICAL PURPOSES. CONTINUE INSULATION TO TOP OF ALL DIFFUSERS, GRILLES, REGISTERS, ETC. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL. ALL KITCHEN HOOD EXHAUST DUCTWORK SHALL HAVE FIRE BARRIER DUCT WRAP. DUCT WRAP SHALL BE TESTED IN ACCORDANCE WITH ASTM E 2336. 2 LAYERS OF 3M FIRE BARRIER DUCT WRAP 615+ OR SIMILAR TO BE USED.

- D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.
- E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

F. NOT USED.

HANGERS AND SUPPORTS A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR

CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

- B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB-CONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE

CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

- VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.
- C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, CEILINGS, AND ROOFS AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.
- D. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLEMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

SUPPORT OF DUCT SYSTEM

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED MANUAL ARE ADHERED TO. DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C. STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'-O" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'-0" O.C.

REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ACCESSORY ITEMS ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNEC-TIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL

TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATIS-FACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCOR-DANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

A. AIR DISTRIBUTION SYSTEMS: 1. INSPECT INSTALLATION AND VERIFY CONFORMITY TO DESIGN. VERIFY THAT SUPPLY, RETURN, AND EXHAUST DUCTS HAVE BEEN PRESSURE-TESTED FOR LEAKAGE AS RECOMMENDED IN THE APPROPRIATE SMACNA STANDARDS. 2. VERIFY THAT VOLUME AND FIRE DAMPERS ARE PROPERLY LOCATED AND FUNCTIONAL

3. VERIFY THAT SUPPLY, RETURN, EXHAUST AND TRANSFER GRILLES, REGISTERS AND DIFFUSERS ARE INSTALLED AND OPERATING PROPERLY.

B. VERIFY THAT CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONING AS INTENDED. INCLUDING ELECTRICAL POWER, CONTROL AND INTERLOCK WIRING, DAMPER SEQUENCES, SMOKE DETECTORS, ETC.

C. UPON COMPLETION OF THE INSTALLATION AND START-UP OF THE MECHANICAL EQUIPMENT, TEST, ADJUST AND BALANCE SYSTEM COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.

D. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH TO THE ARCHITECT THE FOLLOWING DATA:

1. SUMMARY OF MAIN SUPPLY, RETURN AND EXHAUST DUCT PILOT TUBE TRANSVERSES AND FAN SETTINGS. 2. AIR QUANTITIES AT EACH SUPPLY, RETURN, RELIEF AND EXHAUST AIR

HANDLING DEVICE. 3. AIR PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY FAN AND EXHAUST FAN.

4. MOTOR CURRENT AND VOLTAGE READINGS AT EACH EQUIPMENT MOTOR. 5. TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS CONFORMING TO AABC AND NEBB REQUIREMENTS. THE REPORT SHALL INCLUDE AIR FLOW SCHEMATIC DIAGRAMS INDICATING AND IDENTIFYING TEST LOCATIONS SUCH AS DUCT TRANSVERSE, OUTLET READINGS, PRESSURE READINGS AND TEMPERATURE READINGS, AND SHALL BE REFERENCED TO THE RECORDED DATA ON THE FORMS

E. MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE, AND AT THAT TIME MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEM COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH SPACE.

F. INSTRUCTION: THE CONTRACTOR SHALL INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

MECHANICAL TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF **TEMPORARY SERVICES:**

A. TELEPHONE – THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT AS LISTED ON SHEET A-1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIRE-MENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.

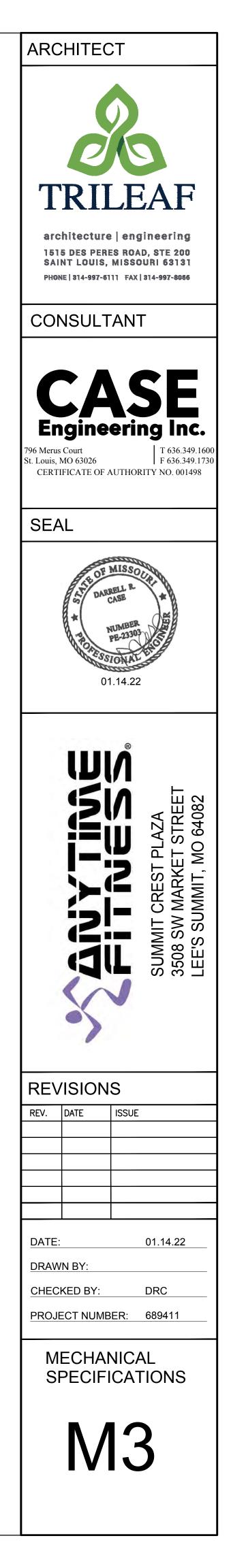
C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.

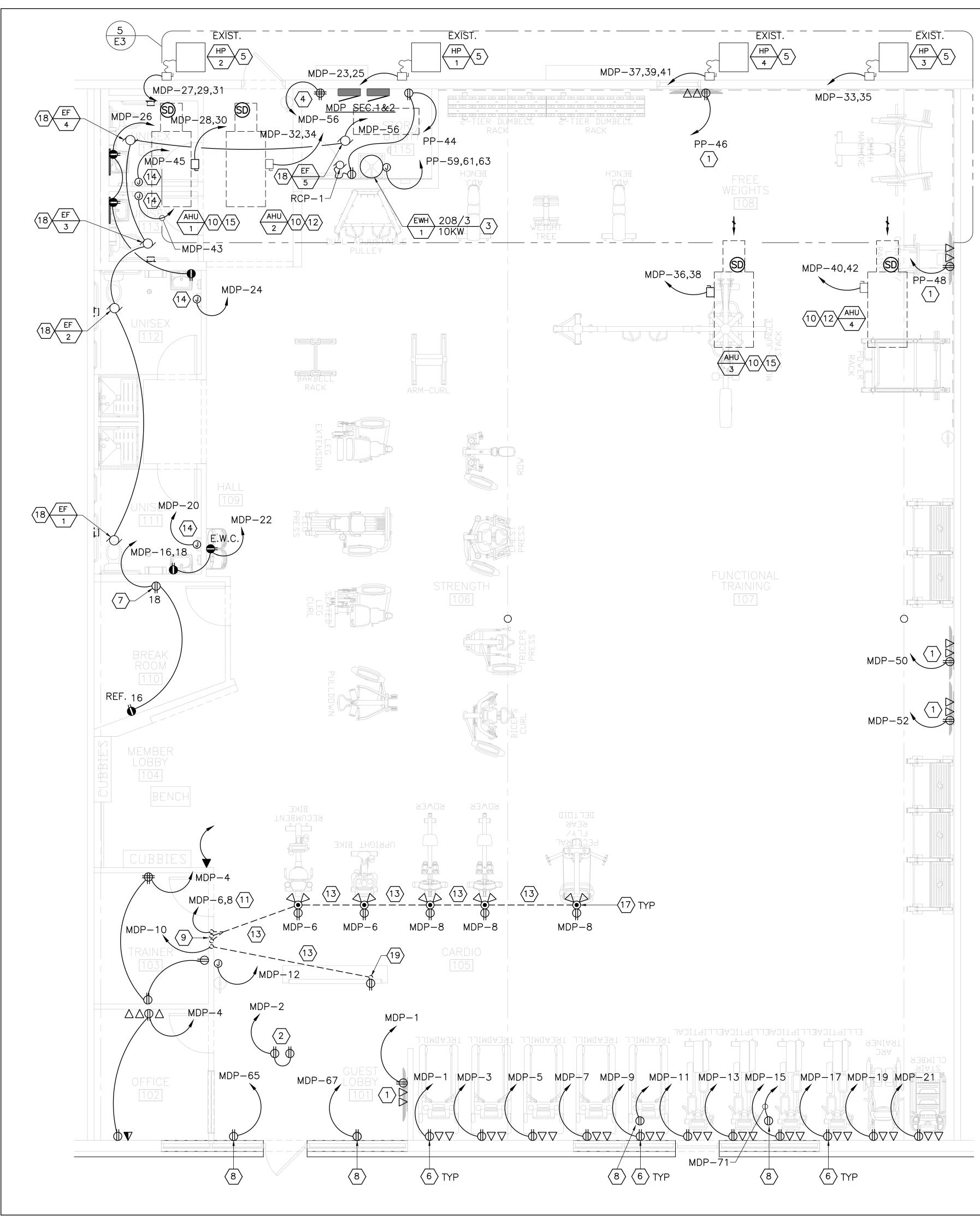
D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.

E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES. THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

NOTE FOR TENANT GENERAL CONTRACTOR

T IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.





- . PROVIDE POWER AND DATA OUTLETS IN WALL MOUNTED AT 84"A.F.F. TO TOP OF J-BOX FOR TELEVISIONS. WHERE LOCATED AT WINDOWS MOUNT DEVICES ABOVE THE WINDOW. EACH TV WILL REQUIRE 2 OUTLETS. ONE FOR THE TV AND ONE FOR THE FM TRANSCEIVER. OUTLET LOCATIONS ARE TO BE DETERMINED BASED ON THE FINAL CARDIO EQUIPMENT LOCATION.
- PROVIDE TWO (2) DUPLEX RECEPTACLES ABOVE MEMBER ENTRANCE DOOR. THIS RECEPTACLE WILL BE USED BY THE ELECTRONIC DOOR STRIKE AND THE ACCESS CONTROL SYSTEM. COORDINATE SECURITY REQUIREMENTS.
- 3. NEW WATER HEATER. PROVIDE CONDUIT AND WIRE AS REQUIRED. COORDINATE WITH THE PLUMBING CONTRACTOR.
- 4. PROVIDE DEDICATED QUADRAPLEX RECEPTACLE FOR TELECOMMUNICATIONS BOARD. VERIFY SYSTEM GROUNDING AND ALL OTHER REQUIREMENTS WITH LOCAL TELEPHONE PROVIDER. PROVIDE 1"TELEPHONE CONDUIT WITH PULLWIRE FROM SERVICE ENTRANCE AT DEMISING WALL TO TELECOMMUNICATIONS BOARD IF NOT ALL READY INSTALLED. VERIFY EXACT LOCATION IN THE FIELD.
- 5. EXISTING HP. E.C. SHALL VERIFY THE ELECTRICAL IN THE FIELD. PROVIDE EXTEND CONDUIT/WIRE AS REQUIRED TO RELOCATED PANELS AS INDICATED.
- PROVIDE POWER, DATA, & CABLE IN STOREFRONT WALL FOR CARDIO EQUIPMENT. SEE LOW VOLTAGE WIRING PLAN FOR MORE IN FORMATION.
- 7. PROVIDE QUAD RECEPTACLE FOR TRAINERS EQUIPMENT. VERIFY EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
- 8. PROVIDE SHOW WINDOW RECEPTACLES AS REQUIRED PER N.E.C. 210.62.
- 9. PROVIDE CHASE WITH SEPARATION FOR POWER AND DATA HOMERUN FOR FOR EXERCISE EQUIPMENT IN ACCESSIBLE CEILING SPACE. ROUTE CONDUIT DOWN WALL CHASE TO WIREMOLD.
- 10. E.C. SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT WIRING REQUIREMENTS. VERIFY FOR GFCI TYPE RECEPTACLE, SMOKE DETECTOR, AND FACTORY MOUNTED DISC. SWITCH IF PROVIDED.
- 11. WHERE NEW MULTI-WIRE BRANCH CIRCUITS ARE USED, CONTRACTOR TO FOLLOW NEC 210.4(B) AND PROVIDE HANDLE-TIES ACROSS ALL BREAKERS WHICH SHARE THE NEUTRAL.
- 12. EXISTING AHU SHALL BE REUSED. E.C. SHALL VERIFY THE ELECTRICAL IN THE FIELD. EXTEND EXISTING CONDUIT/WIRE TO RELOCATED PANEL AS INDICATED.
- 13. PROVIDE FOR SAW CUTTING OF EXISTING CONCRETE FLOOR FOR POWER, DATA, & CABLE IN FLOOR TRENCH FOR CARDIO EQUIPMENT. VERIFY EXACT LOCATION OF EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN.
- 14. E.C. SHALL PROVIDE J-BOX FOR HAND DRYER AT LOCATION SPECIFIED BY OWNER'S PREVENTATIVE. MOUNT BOX AT 42-3/4"A.F.F.
- 15. SEE PANEL SCHEDULES FOR CONDUIT/WIRE SIZES.
- 16. NOT USED
- 17. PROVIDE WIREMOLD #RFB4-C1-1 FLOOR BOX WITH BLANK COVER #FPTCBK AND COMMUNICATION BRACKET (2) #CILT-2-4TKO. PROVIDE APPROPRIATE KEYSTONE CONNECTOR FOR AND DATA AS REQUIRED. SEE DETAIL #5 ON DRAWING E5 FOR MORE INFORMATION. VERIFY EXACT LOCATION OF EQUIPMENT OF EQUIPMENT WITH OWNER AND FINAL EQUIPMENT LAYOUT PRIOR TO ROUGH-IN. VERIFY DATA AND CABLE REQUIREMENTS WITH EQUIPMENT MANUFACTURERS PRIOR TO ROUGH-IN.
- 18. EXHAUST FAN 115/10, SEE MECHANICAL DRAWING FOR CONTROL.
- 19. CONDUIT UP TO LIGHT BOX OUTLET. SEE ARCHITECTURAL FOR MORE INFORMATION.

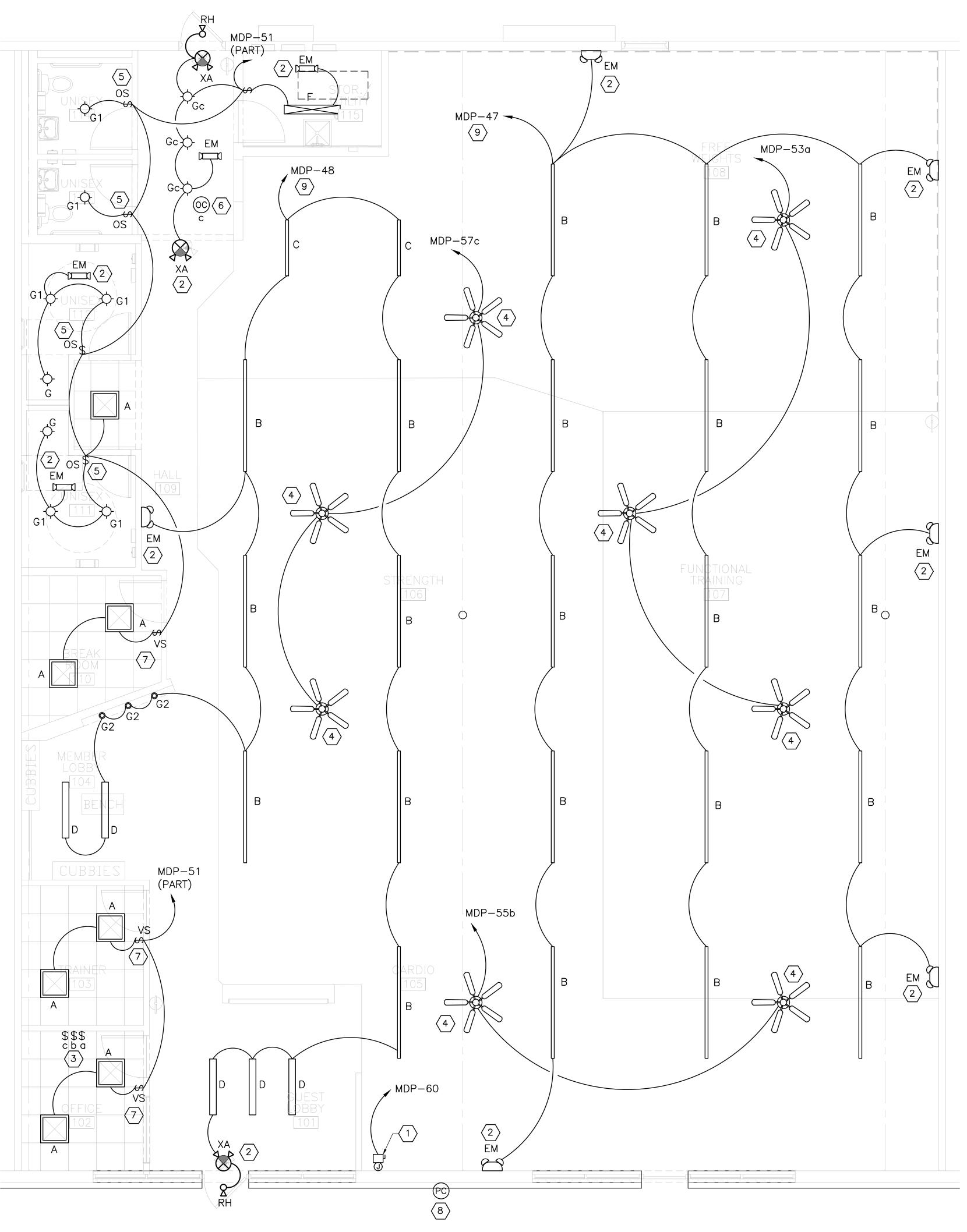
GENERAL NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND STATE/LOCAL CODES.
- 2. ALL CONDUIT SHALL BE GALVANIZED RIGID HEAVY WALL STEEL, EMT, OR TYPE MC-CABLE AS ALLOWED BY NEC AND LOCAL JURISDICTION. SIZES SHALL BE DETERMINED PER NEC . WATERTIGHT FITTINGS SHALL BE PROVIDED AS REQUIRED BY CODE.
- 3. EXACT LOCATION, CUT-OUTS AND MOUNTING HEIGHTS FOR WIRING DEVICES IN SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- ALL RECEPTACLES, DATA AND TELEPHONE OUTLETS ARE TO BE MOUNTED AT +18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 5. THE ELECTRICAL CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BID TO FAMILIARIZE THEMSELVES AND VERIFY EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE TENANT'S REPRESENTATIVE OF ANY DIFFERENCES PRIOR TO BIDDING. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR CONTRACTOR'S FAILURE TO VERIFY SITE CONDITIONS PRIOR TO BIDDING.
- 6. VERIFY THE VOLTAGE/PHASE/AMPERAGE NAMEPLATE INFORMATION OF ALL EQUIPMENT DELIVERED TO THE SITE. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DIFFERENCES BETWEEN THE PLANS AND EQUIPMENT DELIVERED PRIOR TO PERFORMANCE OF ANY WORK.
- ND 7. E.C. SHALL VERIFY EXACT LOCATION OF CARDIO EQUIPMENT PRIOR TO ANY ROUGH-INS.
- UIRED 8. SEE PANEL SCHEDULES ON SHEET E5.0 FOR ALL CONDUIT AND CONDUCTOR SIZES.



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GENERAL NOTES:

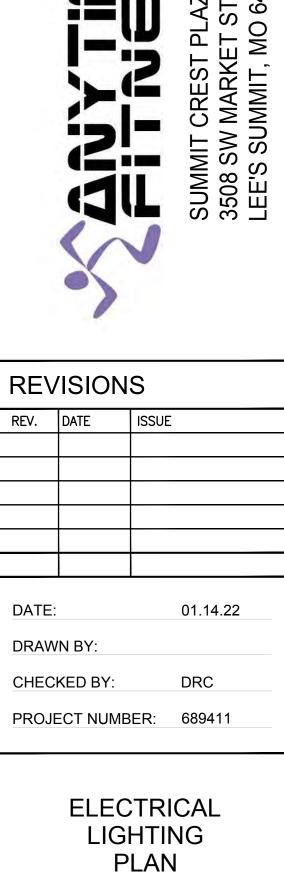
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	LIGHT FIXTURE S	SCH	EDUI	E			
TYPE	MANUFACTURER AND CATALOG NO.	L	AMP DA	ГА	MOUNT'G	FINISH	MARKS
		WATT	DESC.	VOLTS			
А	TCP 2 X 2 LED #DTF2UZD3841K	38	LED	120	RECESSED	WHITE	
В	TCP 8FT STRIP #TCPGPS8UZDA840K	65	LED	120	RECESSED	WHITE	
С	TCP 4FT STRIP #TCPGPS4UZDA840K	32	LED	120	RECESSED	WHITE	
D	LIGHTS BY OWNER – GLOBAL RETAIL ENVIROMENTS						
F	TCP 1X4 WRAP AROUND #LWR4000135	40	LED	120	RECESSED	WHITE	
G	CREE 6"DOWNLIGHT #CR6T-825L-30K-12V-E26GU24 HOUSING #PF-RC6-GU24	11	LED	120	RECESSED	WHITE	
G1	CREE 6"DOWNLIGHT #CR6T-1100L030K-12V-E26GU24 HOUSING #PF-RC6-GU24	11	LED	120	RECESSED	WHITE	
G2	CREE 4" DOWNLIGHT #LR4X-10L-30K HOUSING #RC4-GU24	11	LED	120	RECESSED	WHITE	
ХА	EMERGENCY EXIT LIGHT BEST #EZXTEU LED	3	LED	120	SURFACE	WHITE	
RH	EMERGENCY LIGHT REMOTE HEAD #RHLED1-WP-CLPCXTE-HL	1.5	LED	_	SURFACE	WHITE	
EM	EMERGENCY EGRESS LIGHT	1.5	LED	120	SURFACE	WHITE	

KEYED NOTES: $\langle x \rangle$

- 1. PROVIDE JUNCTION BOX WITH DISCONNECT SWITCH IN CONCEALED LOCATION FOR CONNECTION TO STOREFRONT SIGN LIGHTING. LOCATE DISCONNECT PER NEC 600.6. E.C. SHALL PROVIDE PHOTOCELL TO CONTROL SIGN AND SHALL VERIFY LOCATION OF THE PHOTOCELL WITH LANDLORD PRIOR TO INSTALLATION. VERIFY EXACT WIRING REQUIREMENTS WITH SIGN MANUFACTURER PRIOR TO ROUGH-IN. DO NOT INSTALL ON BUILDING FACADE.
- 2. CIRCUIT EMERGENCY, AND EXIT LIGHTING AHEAD OF ANY CONTROLS OR LOCAL AREA SWITCHING.
- 3. PROVIDE APPROPRIATE VARIABLE SPEED SWITCHES AS INDICATED IN MANAGERS OFFICE FOR CONTROL OF CEILING FANS AS INDICATED. VERIFY WITH CEILING FAN MANUFACTURER FOR TYPE OF VARIABLE SPEED SWITCH AND QUANTITY REQUIRED.
- 4. BOTTOM OF CEILING FAN TO BE MOUNTED AT UNIFORM HEIGHT TO AVOID ANY LIGHTS AND OBSTRUCTIONS. VERIFY ALL MOUNTING REQUIREMENTS WITH THE MANUFACTURER INSTALLATIONS INSTRUCTIONS.
- 5. PROVIDE FOR WALL OCCUPANCY SENSOR COMPATIBLE WITH WITH LIGHT FIXTURE AS REQUIRED.
- 6. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR COMPATIBLE WITH HALLWAY FIXTURES AS SHOWN.
- 7. PROVIDE LUTRON MAESTRO WALL MOUNTED VACANCY SENSOR MSA102-V. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 8. PHOTOCELL MOUNTED AT ROOF LINE FOR CONTROL OF STORE FRONT SIGN LIGHTING. VERIFY EXACT LOCATION IN THE FIELD.
- 9. ALL EXERCISE AREA LIGHTING SHALL BE SWITCH AT THE PANEL.

796 Merus Court St. Louis, MO 63026 SEAL DARRELL R. 01.14.22 INN **5**1



A 3EET 4082 __



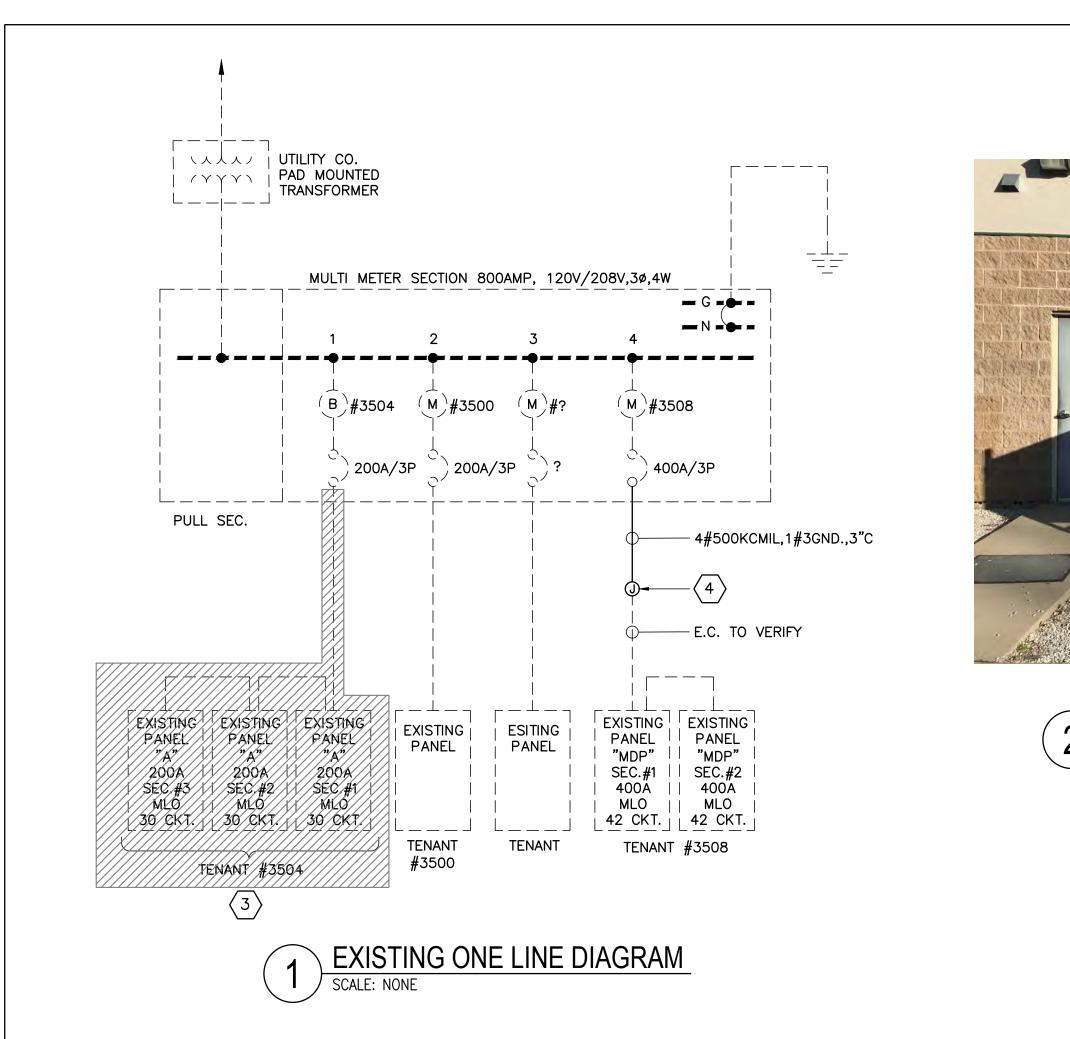
ARCHITECT



architecture | engineering 1515 DES PERES ROAD, STE 200 SAINT LOUIS, MISSOURI 63131 PHONE | 314-997-6111 FAX | 314-997-8066

CONSULTANT





	SYMBOLS LEGEND
	ELECTRIC PANEL
TTB	TELEPHONE TERMINAL BOARD
۵	JUNCTION BOX
а\$ <u>з</u>	SWITCH - TOGGLE SINGLE POLE $(3 = 3)$ WAY, 4 = 4 WAY, K = KEY OPERATED. D = DIMMER, P = PILOT LIGHT, M = MANUAL OS = OCCUPANCY SENSOR LOWER CASE LETTERING = SWITCH LEG)
4	DISCONNECT SWITCH
	2 X 2 LED
	2 X 4 LED
0	DOWNLIGHT LED
	EXIT LIGHT W/EMERGENCY LIGHTS
	EXIT LIGHT
\ominus_{-}	DUPLEX RECEPTACLE
⊖ ^(E)	EXISTING DUPLEX RECEPTACLE
\ominus	DUPLEX RECEPTACLE – GFCI TYPE
\triangleright^{C}	SIGNAL VIA COAX CABLE
\triangleright^{D}	DATA RJ45 CONNECTOR FOR CONNECTION TO ETHERNET VIA CAT5E CABLE

- **GENERAL NOTES:**
- DISCREPANCIES TO OWNER/ARCHITECT.





SERVICE ENTRANCE EQ. PHOTO #1 SCALE: NONE



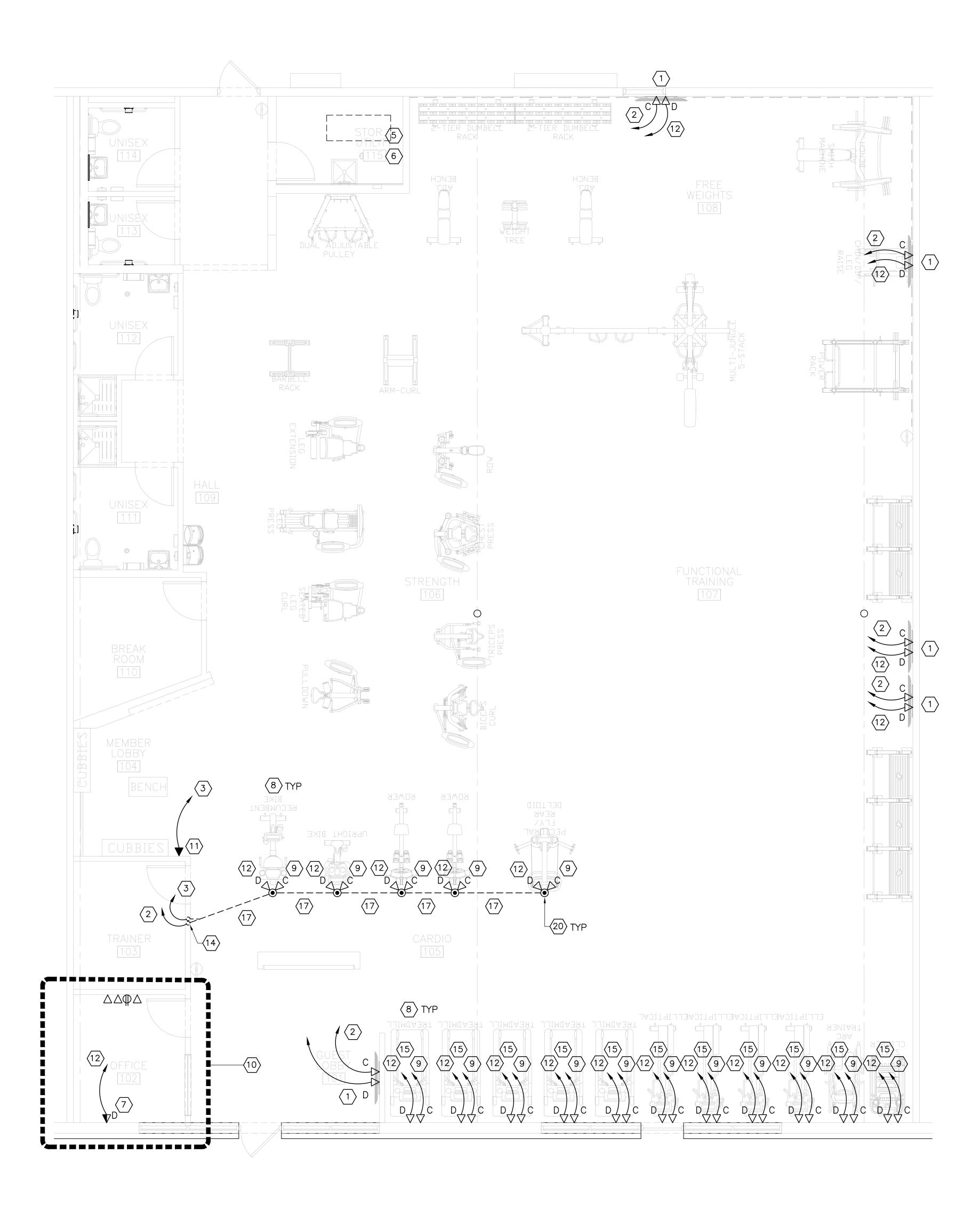
1. E.C. SHALL SURVEY EXISTING CONDITIONS. VERIFY EXISTING CONDUIT/CONDUCTOR SIZES/METERING AND ROUTING OF CONDUIT TO LANDLORDS SPACE. REPORT ANY

WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES.

4. ALL WIRING SHALL BE COPPER, THHN/THWN OR XHHW INSULATION IN CONDUIT. MINIMUM SIZE 3/4"C. PROVIDE INSULATED COPPER GROUND WIRE IN ALL CIRCUITS.

- SOURCE AND MAKE FOR SAFE. COORDINATE WITH LOCAL UTILITY COMPANY FOR REMOVAL OF EXISTING METER AS REQUIRED AND MAKE BLANK. SEE ONE LINE ABOVE FOR MORE INFORMATION.
- EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED. SEE ONE LINE DIAGRAM FOR MORE INFORMATION.
- EXISTING CONDUIT/WIRE AS INDICATED.





KEYED NOTES: $\langle \# \rangle$

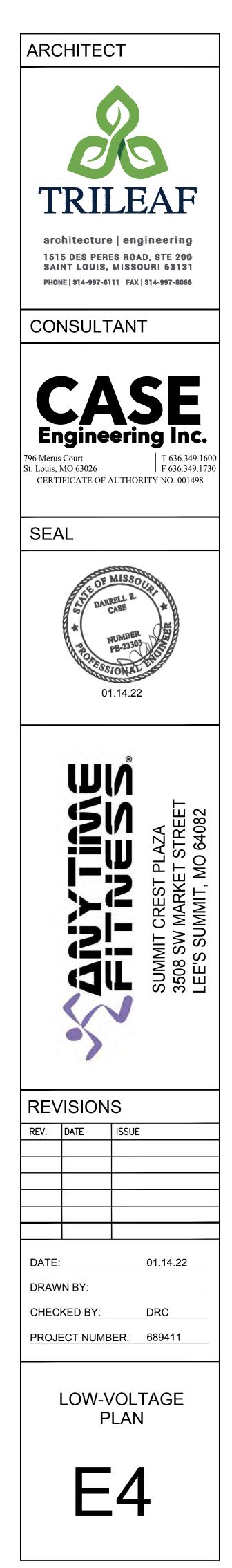
- TRANSCEIVER. OUTLET LOCATIONS ARE TO BE DETERMINED BASED ON THE FINAL CARDIO EQUIPMENT LOCATION.
- 2. TV COAXIAL.
- 3. TELEPHONE CAT5.
- 4. NOT USED.
- 5. APPROXIMATE LOCATION OF TV DEMARK. VERIFY LOCATION PRIOR TO ROUGH-IN.
- 6. APPROXIMATE LOCATION OF TELEPHONE & INTERNET DEMARK. VERIFY LOCATION PRIOR TO ROUGH-IN.
- EXACT LOCATION PRIOR TO ROUGH-IN.
- EQUPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- 9. TV COAXIAL TYPICALLY ONE CABLE PER TV/VIEW SCREEN.
- 10. NEVER CENTER. SEE DRAWING E5 FOR DETAIL.
- 11. EMERGENCY PHONE LOCATION. VERIFY EXACT LOCATION IN THE FIELD. 48" MAXIMUM HEIGHT A.F.F. TO OPERABLE PART.
- 12. CAT5 DATA INTERNET. TYPICALLY ONE CABLE PER TV/VIEW SCREEN.
- 13. NOT USED.
- CABLE WITH CONNECTIONS TO TV AND DATA DEMARCATION POINTS. ONE CAT5E AND (1) AND (1) COAXIAL PER TV VIEW SCREEN. DO NOT DAISY CHAIN.
- 15. PROVIDE HOMERUNS AS REQUIRED FOR COAXIAL CABLE (RG6) DOE EXERCISE EQUIPMENT IN ACCESSIBLE CEILING SPACE.
- 16. NOT USED.
- 17. PROVIDE FOR SAW CUTTING OF EXISTING CONCRETE FLOOR FOR POWER, DATA, & CABLE IN FLOOR TRENCH FOR CARDIO EQUIPMENT. VERIFY EXACT LOCATION OF EQUIPMENT WITH OWNER PRIOR TO ROUGH-INS.
- 18. NOT USED.
- 19. NOT USED
- 20. PROVIDE WIREMOLD #RFB4-C1-1 FLOOR BOX WITH BLANK COVER #FPTCBK AND COMMUNICATION BRACKET (2) #CILT-2-4TKO. PROVIDE APPROPRIATE KEYSTONE CONNECTOR FOR AND DATA AS REQUIRED. SEE DETAIL #5 ON DRAWING E5 FOR MORE INFORMATION. VERIFY EXACT LOCATION OF EQUIPMENT OF EQUIPMENT WITH OWNER AND FINAL EQUIPMENT LAYOUT PRIOR TO ROUGH-IN. VERIFY DATA AND CABLE REQUIREMENTS WITH EQUIPMENT MANUFACTURERS PRIOR TO ROUGH-IN.

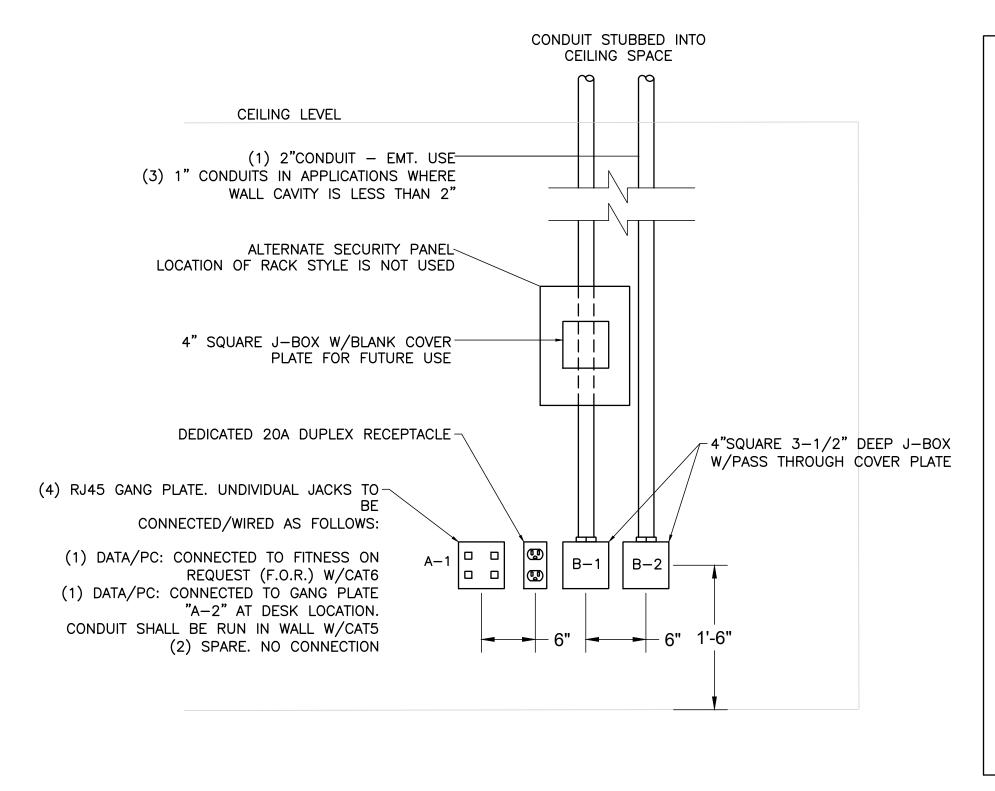
PROVIDE POWER AND DATA OUTLETS IN WALL MOUNTED AT 84"A.F.F. TO TOP OF J-BOX FOR TELEVISIONS. WHERE LOCATED AT WINDOWS MOUNT DEVICES ABOVE THE WINDOW. EACH TV WILL REQUIRE 2 OUTLETS. ONE FOR THE TV AND ONE FOR THE FM

7. DESK DATA POINT - REFER TO DETAIL ON DRAWING E7. VERIFY

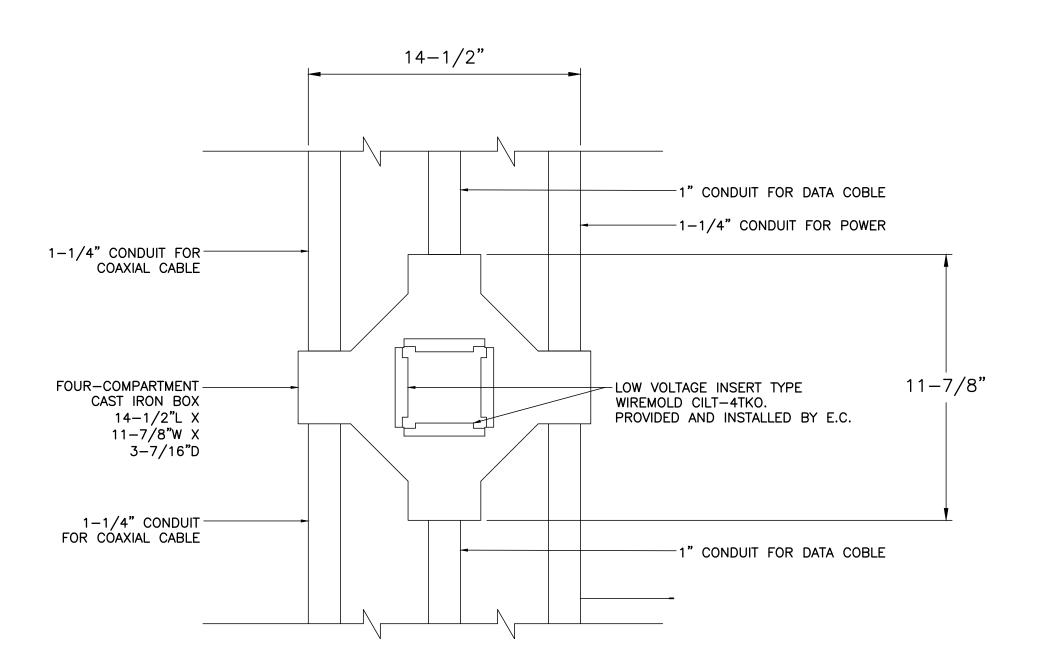
8. VERIFY EXACT LOCATION OF CARDIO EQUIPMENT WITH OWNER AND

14. CONDUIT UP TO ACCESSIBLE CEILING SPACE. COAXIAL, AND DATA

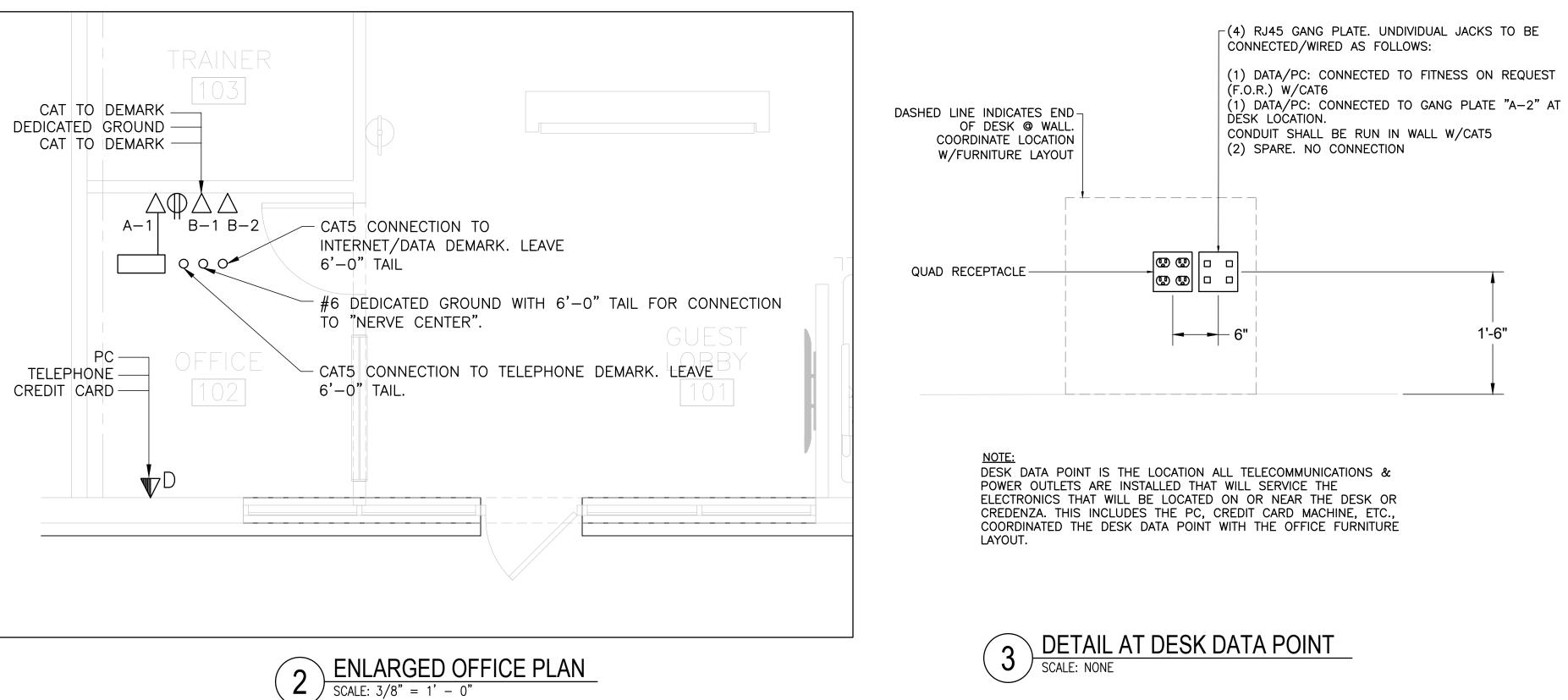








FLOOR BOX WIREMOLD RFB4-CI-1 SERIES - DETAIL **4** ` SCALE: NONE



	JC	B NAME:	ANYTIME	FITNESS	PANELBOARD: MDP EXIST	TING		SECT	ION: 1							
	VO	_TS (L-L):	208		MOUNTING:	SURFACE					BUS MATERIAL:	ALUM				
			120		TYPE:	NEMA1					TOP OR BOTTOM FEED?:					
		PHASE:	3		FEED THRU LUGS (Y/N):	Y					GROUND BUS:	YES	-			
		WIRE:	4		SERIES RATED (Y/N):	N					BRANCH BKRS.:	BOLT-ON				
			x		SHUNT TRIP MAIN (Y/N):	N					S. E. RATED (Y/N):	YES				
		MCB:			MINIMUM AIC RATING:	10,000					NEUTRAL RATING (%):	100				
	5		UTILITY		SOURCE FEEDER AMPS:	400					LOCATION:	CLOSET	•			
		CCT B	RKR				F	HASE LOAD	s				CCT E	RKR		
CODE	CKT. #	AMP	POLES	WIRE & CONDUIT	LOAD SERVED	KVA	øA	øB	øC	KVA	LOAD SERVED	WIRE & CONDUIT	POLES	AMP		¢ CODE
2	1	20	1	2#12,1#12G.,3/4"C	CARDIO 105 TREADMILL	0.8	1.2			0.4	GUEST LOBBY 101 CEILING RECEPTS.	2#12,1#12G.,3/4"C	1	20	2	2
2	3	20	1	2#12,1#12G.,3/4"C	CARDIO 105 TREADMILL	0.8		1.2		0.4	OFFICE 102 RECEPTACLES	2#12,1#12G.,3/4"C	1	20	4	2
2	5	20	1	2#12,1#12G.,3/4"C	CARDIO 105 TREADMILL	0.8			1.6	0.8	CARDIO 105 EXERCISE BIKE	2#12,1#12G.,3/4"C	1	20	6	2
2	7	20	1	2#12,1#12G.,3/4"C	CARDIO 105 TREADMILL	0.8	1.6			0.8	CARDIO 105 EXERCISE BIKE	2#12,1#12G.,3/4"C	1	20	8	2
2	9	20	1	2#12,1#12G.,3/4"C	CARDIO 105 TREADMILL	0.8		1.3		0.5	CARDIO 105LIGHT BOX	2#12,1#12G.,3/4"C	1	20	10	1
2	11	20	1	2#12,1#12G.,3/4"C	CARDIO 105 ELLIPTICAL	0.8			0.9	0.1	CARDIO 105 AF LIT SIGN	2#12,1#12G.,3/4"C	1	20	12	1
2	13	20	1	2#12,1#12G.,3/4"C	CARDIO 105 ELLIPTICAL	0.8	1.6			0.8	TRAINER 103 RECEPTACLES	2#12,1#12G.,3/4"C	1	20	14	2
2	15	20	1	2#12,1#12G.,3/4"C	CARDIO 105 ELLIPTICAL	0.8		1.6		0.8	BREAKROOM 110 REFRIG. & RECEPT.	2#12,1#12G.,3/4"C	1	20	16	6
2	17	20	1	2#12,1#12G.,3/4"C	CARDIO 105 ELLIPTICAL	0.8			1.0	0.2	BREAKROOM 110 RECEPTACLE	2#12,1#12G.,3/4"C	1	20	18	2
2	19	20	1	2#12,1#12G.,3/4"C	CARDIO 105 TRAINER	0.8	1.6			0.8	UNISEX 111 HAND DRYER	2#12,1#12G.,3/4"C	1	20	20	2
2	21	20	1	2#12,1#12G.,3/4"C	CARDIO 105 STAIR CLIMBER	0.8		1.6		0.8	UNISEX 111 GFI & HALL 109 E.W.C.	2#12,1#12G.,3/4"C	1	20	22	2
6	23	50	2	3#8,1#10G.,3/4"C	EXISTING HP-1	3.3			4.1	0.8	UNISEX 112 HAND DRYER	2#12,1#12G.,3/4"C	1	20	24	2
6	25	50	-	0, 1, 100., 0, 40		3.3	3.9			0.6	UNISEX 112,113, & 114 GFI	2#12,1#12G.,3/4"C	1	20	26	2
6	27					2.7		8.0		5.3	EXISTING AHU-1	2#6,1#10G.,3/4"C	2	60	28	6
6	29	35	3	3#8,1#10G.,3/4"C	EXISTING HP-2	2.7			8.0	5.3		2#0,1#100.,3/4 0	2	00	30	6
6	31					2.7	8.0			5.3	EXISTING AHU-2	2#6,1#10G.,3/4"C	2	60	32	6
6	33	50	2	3#8,1#10G.,3/4"C	EXISTING HP-3	3.3		8.6		5.3		2#0,1#100.,3/4 C	2	00	34	6
6	35	50	2	3#0,1#100.,3/4 0	EXISTING TIP-3	3.3			13.0	9.7	EXISTING AHU-3	2#3,1#8G.,1"C	2	100	36	6
6	37					2.5	12.2			9.7		2#3,1#00.,1 0	2	100	38	6
6	39	30	3	3#10,1#10G.,3/4"C	EXISTING HP-4	2.5		7.8		5.3	EXISTING AHU-4	2#6,1#10G.,3/4"C	2	60	40	6
6	41					2.5			7.8	5.3		2#0,1#10G.,3/4 C	2	00	42	6
							øA	øB	øC							
					CONN	ECTED KVA:	38.0	37.7	45.3							
					CONNE	CTED AMPS:	105.5	104.6	125.7							

	ACCUMALATIVE		DEMAND	DEMAND	
CODE	CONN. LOAD BREAKDOWN	KVA	FACTOR	KVA	
1	LIGHTING	4.8	125%	6.0	
2	RECEPTACLES	18.5	100/50%	14.3	
3	EQUIPMENT	3.0	100%	3.0	
4	HEATING	0.0	125%	0.0	
5	COOLING	0.0	100%	0.0]
6	MISC. MECHANICAL	90.7	100%	90.7	
7	MISCELLANEOUS	4.0	100%	4.0	
8		0.0	100%	0.0	
9		0.0	100%	0.0	
BLANK	BLANK	0.0	100%	0.0	
SPARE	0.0%	0.0	100%	25.5	
	CONNECTED KVA:	121.0		143.4	=DEMAND KVA
				398.0	=DEMAND AMF

GENERAL NOTES: -PANEL LOAD SHOULD BE BALANCED WITHIN 10% -(*) INDICATES HACR TYPE BREAKER FOR HVAC EQUIP. -(**) INDICATES SHUNT TRIP BREAKER FURNISH SWITCH RATED BREAKER FOR LIGHTING LOADS

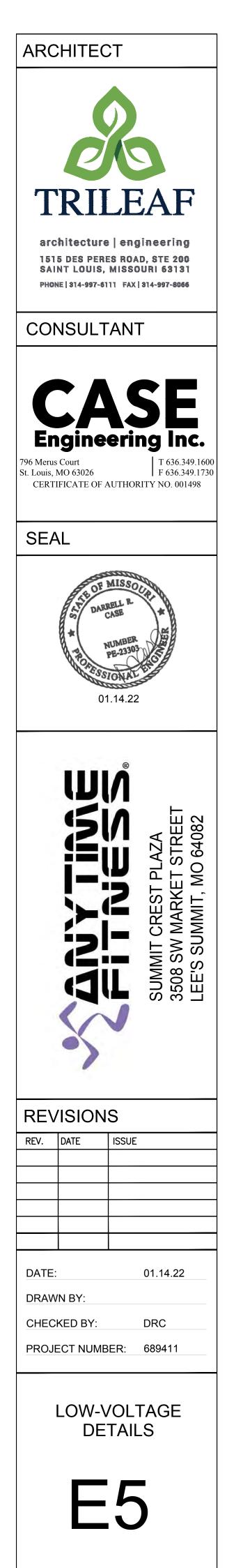
	JC	OB NAME:	ANYTIME	FITNESS	PANELBOARD: MDP EXIST	ING		SECT	ION: 2							
VOLTS (L-L):208			MOUNTING:	SURFACE					BUS MATERIAL:	ALUM	_					
VOLTS (L-N): 120			120		TYPE:	NEMA1					TOP OR BOTTOM FEED?:		_			
		PHASE:	3		FEED THRU LUGS (Y/N):	Y					GROUND BUS:	YES	_			
		WIRE:	4		SERIES RATED (Y/N):	N					BRANCH BKRS.:	BOLT-ON	_			
		MLO:	X		SHUNT TRIP MAIN (Y/N):	N					S. E. RATED (Y/N):	YES	_			
		MCB:			MINIMUM AIC RATING:	10,000					NEUTRAL RATING (%):	100	-			
	:	SOURCE:	SEC.1		SOURCE FEEDER AMPS:	400					LOCATION:	CLOSET				
		CCT B	RKR				F	PHASE LOAD	s				CCT E	BRKR		Т
]	
DE	СКТ. #	AMP	POLES	WIRE & CONDUIT	LOAD SERVED	KVA	øA	øB	øC	KVA	LOAD SERVED	WIRE & CONDUIT	POLES	AMP	СКТ. #	# c
2	43	20	1	2#12,1#12G.,3/4"C	UNISEX 113 HAND DRYER	0.8	1.0			0.2	SERVICE PANEL RECEPTACLE	2#12,1#12G.,3/4"C	1	20	44	T
2	45	20	1	2#12,1#12G.,3/4"C	UNISEX 114 HAND DRYER	0.8		1.0		0.2	FREE WEIGHTS 108 T.V.	2#12,1#12G.,3/4"C	1	20	46	T
1	47	20	1	2#12,1#12G.,3/4"C	FREE WEIGHTS 108 & FUNCTIONAL TRAINING 107 LIGHTING	1.0			1.2	0.2	FREE WEIGHTS 108 T.V.	2#12,1#12G.,3/4"C	1	20	48	T
1	48	20	1	2#12,1#12G.,3/4"C	STRENGTH 106 & CARDIO 105 LIGHTING	1.0	1.2			0.2	FUNCTIONAL TRAINING 107 T.V.	2#12,1#12G.,3/4"C	1	20	50	Ī
1	51	20	1	2#12,1#12G.,3/4"C	OFFICE 102, 103, MEMBER LOBBY 104, STOR. 115, UNISEX 110, 111, 112, 113, 114 LIGHTING	1.0		1.2		0.2	FUNCTIONAL TRAINING 107 T.V.	2#12,1#12G.,3/4"C	1	20	52	
3	53	20	1	2#12,1#12G.,3/4"C	FREE WEIGHTS 108 & FUNCTIONAL TRAINING 107 CEILING FANS	1.0			1.2	0.2	QUEST LOBBY 101 T.V.	2#12,1#12G.,3/4"C	1	20	54	I
3	55	20	1	2#12,1#12G.,3/4"C	CARDIO 105 CEILING FANS	1.0	1.4			0.4	TELECOMMUNICATIONS DED. REC.	2#12,1#12G.,3/4"C	1	20	56	T
3	57	20	1	2#12,1#12G.,3/4"C	FREE WEIGHTS 108 & FUNCTIONAL TRAINING 107 CEILING FANS	1.0		1.1		0.1	EF-1,2,3,4,&5	2#12,1#12G.,3/4"C	1	20	58	T
6	59					3.3			4.5	1.2	STORE SIGNAGE	2#12,1#12G.,3/4"C	1	20	60	T
6	61	35	3	3#8,1#10G.,3/4"C	EWH-1	3.3	3.3				SPARE		1	20	62	T
6	63					3.3		3.3			SPARE				64	T
7	65	20	1	2#12,1#12G.,3/4"C	SHOW WINDOW RECEPTACLE	1.0			1.0		SPACE				66	Τ
7	67	20	1	2#12,1#12G.,3/4"C	SHOW WINDOW RECEPTACLE	1.0	1.0				SPACE				68	Τ
7	69	20	1	2#12,1#12G.,3/4"C	SHOW WINDOW RECEPTACLE	1.0		1.0			SPACE				70	
7	71	20	1	2#12,1#12G.,3/4"C	SHOW WINDOW RECEPTACLE	1.0			1.0		SPACE				72	
	73				SPARE		0.0				SPACE				74	
	75				SPARE			0.0			SPACE				76	I
	77				SPACE				0.0		SPACE				78	
	79						0.0				SPACE				80	I
	81							0.0			SPACE				82	
	83								0.0		SPACE				84	
							øA	øB	øC							
					CONNE	CTED KVA:	7.9	7.6	8.9							
					CONNEC	TED AMPS:	21.9	21.1	24.7							

			DEMAND	DEMAND]
CODE	CONN. LOAD BREAKDOWN	KVA	FACTOR	KVA]
1	LIGHTING	4.2	125%	5.3	
2	RECEPTACLES	3.3	100/50%	3.3	
3	EQUIPMENT	3.0	100%	3.0	
4	HEATING	0.0	125%	0.0	
5	COOLING	0.0	100%	0.0	
6	MISC. MECHANICAL	9.9	100%	9.9	
7	MISCELLANEOUS	4.0	100%	4.0	1
8		0.0	100%	0.0	
9		0.0	100%	0.0	
BLAMK	BLANK	0.0	100%	0.0	
	CONNECTED KVA:	24.4		25.5	=DEMAND KVA
				70.6	=DEMAND AME

NOTE: IF NEW CIRCUITS ARE REQUIRED. ALL NEW CIRCUIT BREAKERS SHALL BE OF SAME MANUFACTURER AND AIC RATINGS AS THE EXISTING.

NOTE: IF NEW CIRCUITS ARE REQUIRED. ALL NEW CIRCUIT BREAKERS SHALL BE OF SAME MANUFACTURER AND AIC RATINGS AS THE EXISTING.

GENERAL NOTES: -PANEL LOAD SHOULD BE BALANCED WITHIN 10% -(*) INDICATES HACR TYPE BREAKER FOR HVAC EQUIP. -(**) INDICATES SHUNT TRIP BREAKER FURNISH TYPE HACR BREAKER FOR HVAC EQUIPMENT FURNISH SWITCH RATED BREAKER FOR LIGHTING LOADS



DIVISION 16 - ELECTRICAL SPECIFICATIONS

SECTION 16100

ELECTRICAL SPECIAL CONDITIONS

1. <u>GENERAL</u>

- A. APPLICABLE PROVISIONS OF AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AND DIVISION 1 GENERAL CONDITIONS GOVERN WORK UNDER THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.
- APPLICABLE PROVISIONS OF THIS SECTION GOVERN WORK UNDER ALL OTHER SECTIONS OF DIVISION 16. WORK COVERED BY THIS SECTION SHALL CONSIST OF PROVIDING ALL MATERIAL, LABOR, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE, TESTED AND ADJUSTABLE ELECTRICAL INSTALLATION READY FOR OPERATION AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS
- C. THE TERM CONTRACTOR AS USED IN THIS SECTION SHALL MEAN ANY CONTRACTOR OR SUBCONTRACTOR WHO HAS CONTRACTED TO PERFORM WORK INCLUDED IN AND DEFINED BY THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.
- 2. CONTRACTOR'S RESPONSIBILITY
- A. PRIOR TO SUBMITTING HIS BID, CONTRACTOR SHALL CAREFULLY EXAMINE THESE CONSTRUCTION DOCUMENTS, THE DEVELOPER'S EXHIBITS, AND THE SITE, TO INQUIRE FULLY INTO DIFFICULTIES AND COSTS OF WORK, AND TO DETERMINE THE SCOPE AND CHARACTER OF WORK TO BE DONE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS TO LOCATE AND/OR EXTEND ALL UTILITIES INCLUDING LIGHTING PANELS, POWER PANELS, ELECTRICAL SERVICE, PHONE SERVICE AND/OR MODIFY EQUIPMENT TO MEET THE INTENT OF THE CONTRACT DOCUMENTS. THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER SHALL NOT BE RESPONSIBLE FOR FAILURE OF THE CONTRACTOR TO DETERMINE DIFFICULTIES AND COSTS IN THE PROJECT OR FOR HIS OVERLOOKING OF THE REQUIREMENTS.
- B. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THE PLANS AND SPECIFICATIONS, OR IF THERE ARE ANY REQUIREMENTS WHICH ARE AMBIGUOUS IN THE CONTRACTOR'S OPINION. HE SHOULD CALL THIS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATIONS OF THE ARCHITECT AND ENGINEER.
- C. CONTRACTOR SHALL SCHEDULE HIS WORK IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK. ALL WORK SHALL BE SCHEDULED TO MAINTAIN SERVICE TO ALL REQUIRED AREAS DURING THE COURSE OF THE CONSTRUCTION EXCEPT FOR SHORT TERM PLANNED SHUTDOWNS, ANY OF WHICH SHALL BE PRE-SCHEDULED WITH THE OWNERS AGENT AND THE LANDLORD.
- 3. WORKMANSHIP AND GUARANTEE
 - A. IN ENTERING INTO A CONTRACT COVERING THIS WORK, THE CONTRACTOR ACCEPTS THE SPECIFICATIONS, AND GUARANTEES THAT THE WORK WILL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR FURTHER GUARANTEES THAT THE WORKMANSHIP AND MATERIAL WILL BE OF THE BEST PROCURABLE AND THAT NONE BUT EXPERIENCED WORKMEN EXPERIENCED IN EACH PARTICULAR CLASS OF WORK WILL BE EMPLOYED. CONTRACTOR FURTHER GUARANTEES TO REPLACE AND MAKE GOOD AT HIS OWN EXPENSE ANY DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL WHICH MAY DEVELOP WITHIN ONE (1) YEAR AFTER FINAL PAYMENT AND ACCEPTANCE BY THE ARCHITECT.
- 4. CODES AND STANDARDS
 - CONTRACTOR WILL COMPLY IN ALL RESPECTS WITH THE ADOPTED BUILDING CODES, APPLICABLE LAWS, ORDINANCES, AND REGULATIONS AS MAY APPLY ACCORDING TO THE RULING OF THE CONTROLLING PUBLIC OFFICIAL SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE LAWS, ORDINANCES AND REGULATIONS, OR WHICH DOES NOT RECEIVE THE APPROVAL OF THE CONTROLLING PUBLIC OFFICIAL, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES. ALL ELECTRICAL EQUIPMENT SHALL SHALL BEAR THE UNDERWRITER'S LABORATORY LABEL.
- 5. FEES ON PERMITS
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAKING PAYMENT FOR ALL FEES, PERMITS AND INSPECTIONS RELATING TO HIS WORK.
- 6. CONTRACT DRAWINGS
- A. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND INTENT OF THE DESIGN AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS AND THE WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL WHICH MAY BE REQUIRED, NOR IS IT IMPLIED TH CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE SYSTEMS OR BUILDING COMPONENTS HAVE BEEN INDICATED. THE CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AFFECTING THE WORK AND ARRANGE HIS WORK ACCORDINGLY, PROVIDING SUCH FITTINGS, OFFSETS, ACCESSORIES AND DEVICES AS MAY BE REQUIRED. THE DRAWINGS AND SPECIFICATIONS ARE MUTUALLY COMPLEMENTARY, AND ANY WORK REQUIRED BY ONE BUT NOT BY THE OTHER SHALL BE PERFORMED BY BOTH. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND SERVICES REQUIRED FOR A COMPLETE AND WORKING PROJECT AT NO ADDITIONAL COST EVEN THOUGH EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN.
- CONTRACTOR SHALL NOT SCALE FROM THE DRAWINGS BUT SHALL FOLLOW THE ARCHITECTURAL DRAWINGS OR EXISTING BUILDING CONDITIONS WHERE APPLICABLE, IN ESTABLISHING DIMENSIONS AND LINES OF RUN, SINCE DIMENSIONS ON THE FINAL ARCHITECTURAL DRAWINGS OR AT THE SITE MAY NOT COINCIDE WITH THOSE SHOWN ON THE ELECTRICAL DRAWINGS, THE CONTRACTORS SHALL VERIFY WITH THE DIMENSIONED ARCHITECTURAL DRAWINGS OR THE SITE CONDITIONS THE EXACT MATERIAL QUANTITIES AND LENGTHS NECESSARY.
- C. SIGNIFICANT DEVIATIONS OR CHANGES FROM THE DRAWINGS WHICH ARE REQUIRED TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS MUST BE REVIEWED WITH THE ARCHITECT AND APPROVED BEFORE PROCEEDING.
- 7. SHOP DRAWINGS
- A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FOUR (4) COPIES MINIMUM, FOR ALL MANUFACTURED PRODUCTS. EACH SHOP DRAWING SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO ASSURE THAT ALL DIMENSIONS, QUANTITIES, CONNECTIONS, CAPACITATES AND ACCESSORIES SHOWN ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MARKED OR STAMPED TO CONFIRM THAT SUCH REVIEW WAS MADE AND COMPLIANCE WAS CONFIRMED
- APPROVAL OF SHOP DRAWINGS BY THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER, WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH ALL TERMS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PERFORMANCE OF ALL EQUIPMENT PURCHASED, FOR PROPER FIT, AND OTHER DIMENSIONAL REQUIREMENTS.
- 8. RECORD DRAWINGS
 - CONTRACTOR SHALL MAINTAIN AT THE JOB SITE ONE SET OF DOCUMENTS AS "RECORD DRAWINGS" FOR THE PURPOSE OF DAILY MARKING OF ALL SUBSTANTIAL REVISIONS TO THE DOCUMENTS INCLUDING BUT NOT LIMITED TO ELECTRICAL CHANGES, AND LOCATIONS OF UTILITIES, PANELBOARDS, DISCONNECTS, STARTERS AND OTHER DEVICES REQUIRING PERIODIC OPERATIONAL ATTENTION, ADJUSTMENT, OR SERVICE INCLUDING ACCESS THERETO, AT THE COMPLETION OF THE PROJECT, THIS SET SHALL BE RETURNED TO THE ARCHITECT FOR THE PURPOSE OF MAKING FINAL "AS-BUILT DRAWINGS".
- 9. EQUIPMENT SUBSTITUTION
 - A. SPECIFIC MANUFACTURERS AND MODELS OF EQUIPMENT HAVE BEEN USED IN THE DEVELOPMENT OF THE DRAWINGS AND DESIGNS. THIS CONTRACTOR MUST SUBMIT TO THE OWNER ANY CHANGES AND/OR SUBSTITUTIONS FOR APPROVAL PRIOR TO INSTALLATION OR EXECUTION. ANY CHANGES WHICH DO NOT RECEIVE THE OWNER'S APPROVAL MAY BE SUBJECT TO REMOVAL OR REPLACEMENT AS ORIGINALLY SPECIFIED, AND WILL BE AT THE CONTRACTOR'S EXPENSE.
- B. IF THIS CONTRACTOR SUBSTITUTES FOR SPECIFIED EQUIPMENT ANY OTHER EQUIPMENT WHICH REQUIRES ANY CHANGES TO THE DESIGN, ALL COST OF REDESIGN AND RECONFIGURATION RESULTING FROM SAID SUBSTITUTION SHALL BE BORNE BY THE SUBMITTING CONTRACTOR.
- **10. EQUIPMENT INSTALLATION AND SUPPORT**
 - CONTRACTOR SHALL SUPPORT PLUMB, RIGID AND TRUE-TO-LINE ALL WORK AND EQUIPMENT INSTALLED. THIS CONTRACTOR SHALL DETERMINE HOW EQUIPMENT, FIXTURES, ETC., ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED AND SHALL PROVIDE ACCESSORIES REQUIRED FOR PROPER SUPPORT WHETHER SHOWN ON THE DRAWINGS OR NOT. IF SUPPORTS ARE REQUIRED. CONTRACTOR SHALL SUBMIT DRAWINGS TO THE ARCHITECT FOR APPROVAL

- SHALL BE LOCATED OR INSTALLED AS TO PERMIT ACCESS WITHOUT DAMAGE TO STRUCTURE,
- FINISHES OR OTHER EQUIPMENT.
- DEMOLITION
- REPAIRED OR REPLACED BY THIS CONTRACTOR.
- 12. CUTTING AND PATCHING
- BE CUT
- AT TENANT'S EXPENSE.
- 13. CLEANING
- 14. <u>TEST</u>
- ON THE CORRECTED ITEMS.

- BETWEEN AVERAGE PHASE CURRENT AND MEASURED INDIVIDUAL PHASE.
- MAINTAINED BY THE GENERAL CONTRACTOR.
- 16. EXCAVATION AND BACKFILL

SECTION 16200 ELECTRICAL POWER AND LIGHTING

- . RELATED DOCUMENTS
- CONDITIONS GOVERN WORK UNDER THIS SECTION.
- POWER SERVICE
- 3. NAMEPLATES
- BE PERMANENTLY ATTACHED WITH SCREWS.
- "LTG"
- 4. CONDUIT
 - ROMEX, ETC. SHALL BE ALLOWED.
- NOT BE LESS THAN LONG RADIUS BENDS.
- COMPRESSION TYPE

PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTALLATION AND MAINTENANCE LITERATURE. COMPONENTS REQUIRING PERIODIC MAINTENANCE OR ADJUSTMENTS

C. ALL CONDUIT CONNECTING TO SWITCHGEAR, PANELS, MOTORS, AND OTHER EQUIPMENT SHALL BE INSTALLED WITHOUT STRAIN AT THE CONNECTIONS. THE CONTRACTOR MAY BE REQUIRED, AS DIRECTED, TO DISCONNECT CONDUITS TO DEMONSTRATE THAT THEY HAVE BEEN SO CONNECTED.

A. ALL EXISTING EQUIPMENT. NOT INDICATED TO BE INCORPORATED INTO THE NEW SYSTEM SHALL BE DISCONNECTED BY THIS CONTRACTOR FOR REMOVAL BY OTHERS FROM THE JOB SITE. CARE SHALL BE USED SO THAT NO DAMAGE IS DONE TO EXISTING BUILDING, PIPING, DUCTWORK AND/OR ELECTRICAL EQUIPMENT. ANY DAMAGE ATTRIBUTED TO THIS CONTRACTOR SHALL BE

A. ALL CUTTING THAT MAY BE NECESSARY FOR THE INSTALLATION OF THE WORK OR ANY REQUIRED PATCHING THAT RESULTS THEREFROM SHALL BE DONE BY THE PROPER TRADE INVOLVED AND SHALL BE INCLUDED AS PART OF THIS CONTRACT. PATCH TO DUPLICATE UNDISTURBED ADJACENT FINISHES, COLORS, TEXTURES AND PROFILES. COLUMNS, BEAMS, GIRDERS OR JOISTS SHALL NOT

B. ALL WORK AFFECTING ROOF OR STRUCTURES SHALL BE PERFORMED BY LANDLORD'S CONTRACTOR

A. COMPLETION AS IT PERTAINS TO THE CONTRACT COMPLETION DATE IS DEFINED AS THE DAY THE PROJECT IS TURNED OVER TO THE OWNER IN THOROUGHLY CLEAN CONDITION. READY FOR THE OWNER TO TAKE POSSESSION. ALL FIXTURES, MOTORS, EQUIPMENT AND ALL OTHER ELECTRICAL EQUIPMENT FURNISHED OR INSTALLED BY THE CONTRACTOR SHALL BE THOROUGHLY CLEANED.

PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS NECESSARY TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM. CORRECT PROMPTLY ANY FAILURE OR DEFECTS REVEALED BY THESE TESTS AND RECONDUCT TEST

B. TEST THE GROUNDS WITH A GROUND RESISTANCE DIRECT READING SINGLE-TEST MEGGER. C. INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND NOT LESS THAN 1,000,000

THE PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/- 10% VARIATION

AN OPERATIONAL TEST OF THE EMERGENCY LIGHTS AND THE EXIT LIGHTS SHALL BE PERFORMED FOR THE OWNER TO DEMONSTRATE CONFORMANCE TO THE SPECIFICATIONS. **TEMPORARY ELECTRICAL SERVICE**

A. TEMPORARY ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. TEMPORARY LIGHTING SHALL BE PROVIDED BY A LAMP LOCATED FOR EVERY 625 SQUARE FEET OF BUILDING AREA WITH A MINIMUM OF ONE PER ROOM. THE LAMP TO BE 100 WATT AND SHALL BE

TEMPORARY POWER DISTRIBUTION SHALL BE SUFFICIENT TO ACCOMMODATE THE TEMPORARY LIGHTING AND CONSTRUCTION OPERATIONS, INCLUDING THE USE OF POWER TOOLS (BUT NOT INCLUDING HEAVY-DUTY ELECTRICAL WELDING UNITS), ELECTRICAL HEATING UNITS, AND START-UP OF SPECIFIED BUILDING EQUIPMENT, WHICH IS TO BE TESTED, STARTED OR PLACED INTO OUR USE PRIOR TO COMPLETION OF ITS PERMANENT POWER CONNECTIONS.

CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED AS SHOWN ON PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITY SERVICES, SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

APPLICABLE PROVISIONS OF AIA DOCUMENT A201. "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". DIVISION 1 GENERAL CONDITIONS AND SECTION 16100 ELECTRICAL SPECIAL

B. REFER TO SECTION 16100 ELECTRICAL SPECIAL CONDITIONS REGARDING REGULATIONS AND REQUIREMENTS AFFECTING ALL WORK DESCRIBED IN THIS SECTION.

POWER SERVICE FOR THIS PROJECT SHALL BE PROVIDED FROM THE LANDLORD PROVIDED METER (EXISTING OR NEW). THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO INSURE THAT ALL WORK AND MATERIALS, WHETHER EXISTING OR NEW, ARE IN CONFORMANCE WITH THE UTILITY COMPANY'S REQUIREMENTS.

A. ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, PANELBOARDS, DISCONNECTS TRANSFORMERS, CONTROLS, ETC., SHALL BE IDENTIFIED WITH THREE PLY LAMINATED PLASTIC. THE 12. DEVICE PLATES OUTSIDE LAMINATIONS SHALL BE BLACK. ENGRAVING SHALL EXTEND THROUGH THE FRONT LAMINATION SO THAT THE BLACK LETTERS APPEAR ON A WHITE BACKGROUND. NAMEPLATES SHALL

B. CIRCUIT DIRECTORY SHALL BE TYPEWRITTEN (HANDWRITTEN IS NOT ACCEPTABLE) AND SHALL IDENTIFY CIRCUIT AS TO TYPE AND LOCATION AS FOLLOWS:

- FOR LIGHTING CIRCUIT FOLLOWED BY AREA IN WHICH CIRCUIT APPEARS, I.E., "STOCKROOM", "CASH WRAP", ETC. "RECEPT" - FOR RECEPTACLE CIRCUIT FOLLOWED BY AREA IN WHICH RECEPTACLE APPEARS "STOREFRONT", "CASH REGISTER", ETC. "MOTOR" - FOR MOTOR FOLLOWED BY THE EQUIPMENT IDENTIFICATION AND AREA IN WHICH MOTOR IS LOCATED. I.E. "EXH FAN TOILET", "AHU-ROOF", ETC.

ALL WIRING SHALL BE RUN IN CONDUIT. THIN WALL EMT CONDUIT SHALL BE USED SIZES 1/2" THROUGH 2-1/2". ALL CONDUITS LARGER THAN 2-1/2" SHALL BE HEAVYWALL. CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SLABS SHALL BE PVC. JACKETED FLEXIBLE STEEL. CONDUIT (SEALTITE) SHALL BE USED IN WET AREAS AND ON ALL MOTORIZED EQUIPMENT. "MC" CABLE MAY BE USED AT THE CONTRACTORS DISCRETION IF ALLOWED BY LOCAL CODES. NO BX,

B. ALL OPENINGS IN FIRE AND SMOKE WALLS, PARTITIONS, FLOORS AND OTHER SIMILAR PENETRATIONS FOR ELECTRICAL CONDUITS, CABLE OR EQUIPMENT, WHETHER CUT OR IN PLACE, SHALL BE CLOSED WITH A UL APPROVED FIRE RESISTANT SILICONE FOAM SEALANT TO MAINTAIN THE FULL RATING AND INTEGRITY OF THE PARTITIONS, WALLS OR FLOOR.

C. CONDUIT BENDS FOR POWER AND LIGHTING CIRCUITS SHALL NOT BE LESS THAN STANDARD RADIUS BENDS. CONDUIT BENDS FOR FEEDERS, TELEPHONE AND COMMUNICATION CIRCUITS SHALL

D. O.Z. TYPE DX, TX, OR AX CONDUIT EXPANSION DEFLECTION FITTINGS ARE REQUIRED IN ALL CONDUIT RUNS WHERE MOVEMENT MAY BE ENCOUNTERED. ALL EMT COUPLINGS SHALL BE

E. EXPOSED CONDUIT SHALL BE SECURELY SUPPORTED IN PLACE PER CODE BUT ON A MAXIMUM OF 10 FOOT INTERVALS, WITHIN THREE FEET OF EACH BEND, AT EVERY OUTLET OR JUNCTION BOX AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPE WORK. CONDUITS SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO THE BUILDING LINES. GENERALLY, CONDUIT SHALL BE RUN IN CONTACT WITH STRUCTURAL PARTS OF THE BUILDING SO AS TO AVOID SUSPENDED LENGTHS OF CONDUIT. CONDUIT SHALL BE INSTALLED AS TO BE ACCESSIBLE FOR REPLACEMENT AND MAINTENANCE AND GENERALLY CONDUIT SHALL BE INSTALLED TO PERMIT DRAINAGE.

5. WIRE AND CABLE

- A. ALL WIRE AND CABLE SHALL BE COPPER AND RUN IN CONDUIT. ALL WIRE AND CABLE FEEDERS AND BRANCH CIRCUITS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE CURRENT EDITION OF THE N.E.C. AND SHALL MEET ALL ASTM SPECIFICATIONS. WIRE AND CABLE SHALL BE NEW, SHALL HAVE SIZE, GRADE OF INSULATION VOLTAGE AND MANUFACTURER'S NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVAL AND SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING SIZE AND INSULATION TAGS.
- B. THE ELECTRICAL CONTRACTOR SHALL CALCULATE VOLTAGE DROP ON CONDUCTORS WITH LENGTHS GREATER THAN 75 FEET FROM THE PANELBOARD AND PROPERLY SIZE THE CONDUCTORS PER
- POWER CONDUCTORS: NO WIRE LESS THAN NO. 12 SHALL BE USED EXCEPT FOR CONTROL CIRCUITS OR LOW VOLTAGE WIRING. WIRE SIZES NO. 12 TO NO. 10 SHALL BE SOLID EXCEPT WHERE OTHERWISE INDICATED. WIRE SIZES NO. 8 AND LARGER SHALL BE STRANDED. ALL WIRE SIZES SHOWN ARE AMERICAN WIRE GAUGE SIZES. SIZES NO. 12 AWG THROUGH NO. 8 AWG SHALL BE "THHN." SIZE 4 AWG AND LARGER SHALL BE "THW.'
- D. CONTINUITY: ALL WIRES SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.
- ACCEPTABLE MANUFACTURERS: CABLE AND WIRE SHALL BE STANDARD TYPE AS MANUFACTURED BY GENERAL CABLE COMPANY, CAROL, ANACONDA, ROM OR ITT ROYAL. COLOR CODING

A. A COLOR CODING SYSTEM AS LISTED BELOW SHALL BE FOLLOWED THROUGHOUT FOR FEEDERS

AND BRANCH CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD. --120/208V: PHASE A--BLACK, PHASE B--RED, PHASE C--BLUE, NEUTRAL--WHITE, GROUND--GREEN

--277/480V: PHASE A--BROWN, PHASE B--ORANGE, PHASE C--YELLOW, NEUTRAL--GRAY, GROUND--GREEN

. BOXES AND FITTINGS

- ALL OUTLETS SHALL BE PROVIDED WITH GALVANIZED OR SHERARDIZED BOXES SUITABLE IN DESIGN TO THE SPACE THEY OCCUPY AND THE PURPOSE THEY SERVE. WALL MOUNTED OUTLET BOXES. EXCEPT FOR 2" PARTITIONS SHALL BE AT LEAST 1 1/2" DEEP AND/OR DEEPER IF REQUIRED BY THE DEVICE THEY HOLD OR THE CALIFORNIA ELECTRICAL CODE.
- ALL PULLBOXES SHALL BE MADE OF GALVANIZED STEEL, OF METAL GAUGE AND PHYSICAL SIZE AS REQUIRED BY THE N.E.C. FOR THE NUMBER AND SIZE OF RACEWAYS AND CONDUCTORS INVOLVED.
- C. FIXTURE OUTLET BOXES IN OR ON CEILINGS SHALL NOT BE LESS THAN 1-1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX WITH FOUR BOLTS. 8. CIRCUIT BREAKER PANELBOARDS
- PANELS SHALL BE DEAD FRONT, SAFETY TYPE, FURNISHED WITH BRANCH CIRCUIT PROTECTING DEVICES, EQUIPMENT GROUNDING BOX, MAIN BUS AND CABLE LUGS FACTORY ASSEMBLED, WITH ALL COMPONENTS IN PLACE, READY FOR INSTALLATION.
- CURRENT CARRYING CONTACT SURFACES SHALL BE SILVER OR TIN PLATED. THE CIRCUIT BREAKERS SHALL BE OF THE MOLDED CASE, BOLT-ON TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN SCHEDULES AND SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 22,000 AMPERES FOR 120/208V AND 25,000 AMPERES AT 277/480V.
- MAIN BUSES AND CONNECTORS SHALL BE HARD DRAWN COPPER OF 98% CONDUCTIVITY, WITH CURRENT CARRYING CAPACITY TO MAINTAIN ESTABLISHED RISE TESTS AS DEFINED IN UL STANDARD
- CABINET SIZES ARE BASED UPON A 20" WIDE BY 6" DEEP PANEL UNLESS OTHERWISE NOTED. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS SHALL BE KEYED ALIKE, AND TWO KEYS ARE TO BE SUPPLIED WITH EACH LOCK.
- E. PANELBOARDS TO BE BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR CUTLER HAMMER.

9. TRANSFORMERS

- DRY-TYPE TRANSFORMERS SHALL BE OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATING AS CALLED FOR ON THE DRAWINGS AND WITH 150° CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS. SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY. (MOUNT TRANSFORMER ON VIBRATION ISOLATORS). LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OF VIOLATIONS WITH OTHER EQUIPMENT
- B. COMPARABLE EQUIPMENT AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR CUTLER HAMMER.

10. SWITCHES

- A. SWITCHES SHALL BE RATED 20 AMPERES 120/277 VOLT AC TYPE.
- B. SWITCHES SHALL BE MOUNTED 4'-O" ABOVE FINISHED FLOOR TO MOUNTING PLATE AND, AT DOORS. INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLATION OF CONDUIT OUTLETS.

RECEPTACLES

A. RECEPTACLES SHALL BE SELECTED BY ARCHITECT AS MANUFACTURED.

B. RECEPTACLES SHALL BE MOUNTED 18" ABOVE THE FINISHED FLOOR UNLESS OTHERWISE NOTED.

A. DEVICE PLATES SHALL BE AS SELECTED BY ARCHITECT AS MANUFACTURED BY EAGLE, BRYANT, G.E., HUBBELL, OR LEVITON. WALL PLATES SHALL BE SECURED WITH MATCHING SCREWS. ENGRAVED WALL PLATES SHALL HAVE BACK FILL.

13. DISCONNECT SWITCHES

A. FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY TYPE AND UNDERWRITERS LABORATORIES LISTED, MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, CUTLER HAMMER OR SIEMENS.

14. GROUNDING

- A. CONTRACTOR SHALL INSTALL GROUNDING PER NEC. ARTICLE 250. EQUIPMENT GROUNDING SHALL USE ONLY APPROVED GROUNDING CLAMPS AND CONNECTORS AS MANUFACTURED BY PENN-UNION, BURNDY, OR O-Z MFG. COMPANY.
- GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC. ARTICLE 250 AND THE UTILITY COMPANY REGULATIONS. CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTORS TO THE NEUTRAL BAR INSIDE THE MAIN PANEL.
- C. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF A CONTINUOUS CONDUIT INSTALLATION AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT OR RACEWAY WITH THE FEEDER OR BRANCH CIRCUIT CONDUCTORS. THIS GROUNDING SHALL BE EXTENDED FROM THE HOUSING OF EVERY ELECTRICAL LOAD, THROUGH PANELBOARD STATIC GROUNDING BUSSES, TO THE STATIC GROUNDING BUS IN THE MAIN PANEL. THE GROUNDING BUS SHALL BE BONDED TO THE GROUNDING NEUTRAL BAR INSIDE THE MAIN PANEL.

17. FLOOR BOXES

1. GENERAL

15. LIGHTING FIXTURES

A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY ELECT. CONTR., UNLESS NOTED OTHERWISE, THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW, COMPLETE WITH HANGERS, PLASTER FRAMES AND ALL OTHER NECESSARY ACCESSORIES.

B. LED LUMINAIRES AND DRIVERS

LED FIXTURES

1. LED FIXTURES SHALL COMPLY WITH IES LM-79-08 APPROVED METHOD FOR MEASURING LUMEN MAINTENANCE OF LED LIGHT SOURCES, COMPLY WITH IES LM-80-08 APPROVED FOR ELECTRICAL AND PHOTOMETRIC MEASUREMENT OF SSL PRODUCT.

2. LED'S SHALL BE RESTRICTED OF HAZARDOUS SUBSTANCES DIRECTIVE (ROHS) COMPLIANT. 3. LED ARRAYS SHALL BE SEALED, HIGH PERFORMANCE, LONG LIFE TYPE; MINIMUM 70% RATED OUTPUT AT 50,000 HOURS.

4. LED LUMINAIRES SHALL DELIVER A MINIMUM OF 60 LUMENS PER WATT.

5. DRIVERS SHALL BE SOLID STATE AND ACCEPT 120 THROUGH 277 VAC AT 60 HZ INPUT. 6. THE LED LIGHT SOURCE SHALL BE FULLY DIMMABLE WITH USE OF COMPATIBLE DIMMERS SWITCH DESIGNATED FOR LOW VOLTAGE LOADS.

7. LED COLOR TEMPERATURES: SHALL BE AS NOTED ON DRAWING.

8. LUMINAIRES SHALL HAVE INTERNAL THERMAL PROTECTION

9. INDOOR LUMINAIRES SHALL HAVE A MINIMUM CRI OF 85.

10. LUMINAIRES SHALL BE FULLY ACCESSIBLE FROM BELOW CEILING PLANE FOR CHANGING DRIVERS, POWER SUPPLIES AND ARRAYS.

POWER SUPPLIES AND DRIVERS

1. SHALL HAVE A POWER FACTOR: 0.90 OR HIGHER.

CONTROLLER AND CONTROL SYSTEMS

1. THE CONTRACTOR SHALL ENSURE THAT EXTERNAL CONTROL EQUIPMENT IS COMPATIBLE WITH LED CONTROL REQUIREMENTS. PROVIDE CONNECTOR TYPES AND WIRING AS APPROPRIATE FOR UN-INTERRUPTED

COMMUNICATION BETWEEN DEVICES, CONSIDERING DISTANCE MAXIMUMS, FIELD OBSTRUCTIONS, AND ACCESSIBILITY 3. ENSURE THAT CONNECTION POINTS ARE OPTICALLY ISOLATED FOR SYSTEM NOISE REDUCTION. FOR CONTROL COMPONENTS THAT ARE PART OF THE OVERALL AREA CONTROL SYSTEM. SEE DIMMING CONTROLS SPECIFICATIONS. COMPATIBILITY: CERTIFIED BY MANUFACTURE FOR USE WITH INDIVIDUALLY SPECIFIED LUMINAIRE AND INDIVIDUALLY SPECIFIED POWER SUPPLIES AND/OR DRIVERS.

THIS CONTRACTOR SHALL VERIFY THE FINAL CEILING AND FINISH SCHEDULES TO INSURE THE PROPER INSTALLATION AND MOUNTING OF FIXTURES AND SHALL COORDINATE BEFORE MAKING SUBMITTALS.

16. SURFACE METAL RACEWAY

SURFACE METAL RACEWAY SHALL BE TWO PIECE #2100 AS MANUFACTURED BY WIREMOLD. ALL NECESSARY ACCESSORIES REQUIRED TO FIT THE CONFIGURATION SHOWN SHALL BE PROVIDED. RECEPTACLES SHALL BE 120 VAC, 23 AMPS, CATALOG NUMBER #2127GT.

A. FLOOR BOXES SHALL BE WALKER FOUR COMPARTMENT, ADJUSTABLE COMBINATION BOX WITH TUNNEL AND 2 RECEPTACLE BRACKETS, CATALOG NUMBER RFB-4. B. COVERS, RECESSED ACTIVATION WITH CARPET TRIM AND WIRE MANAGEMENT BLOCKS, CATALOG

NUMBER RAKM11. C. TWO DUPLEX RECEPTACLES SHALL BE INSTALLED IN EACH FLOOR BOX.

SECTION 16700

FIRE ALARM SPECIAL CONDITIONS

A. GC TO COORDINATE ALL LOCAL FIRE ALARM REQUIREMENTS WITH LOCAL FIRE MARSHALL AND PROVIDE ALL DEVICES REQUIRED FOR A COMPLETE SYSTEM

GENERAL NOTES

- EC TO PROVIDE HANDLE TIE ON ALL MULTIWIRE BRANCH CIRCUITS PER C.E.C. 210.4(B).
- 2. ALL SPARE CIRCUIT BREAKERS AND DISCONNECT SWITCHES
- SHALL BE LEFT IN THE OFF POSITION.

3. EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.

ARCHITECT

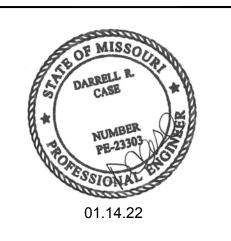


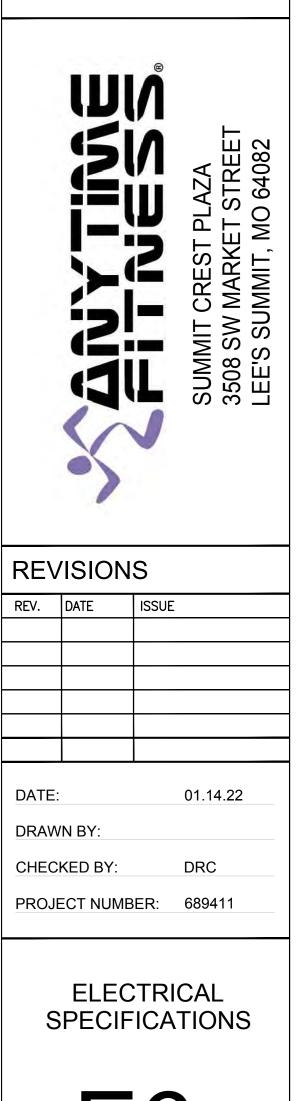
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CONSULTANT



SEAL





PLUMBING GENERAL NOTES

1. PLUMBING CONTRACTOR SHALL ABIDE BY THE LOCAL CODES AND ORDINANCES.

2. PLUMBING CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND SIZES OF ALL UTILITIES, INCLUDING THE DEPTHS OF ALL BELOW GRADE SANITARY SEWERS, PRIOR TO START OF WORK. THIS DRAWING IS NOT INTENDED TO INDICATE ALL EXISTING UTILITIES.

3. CONTRACTOR SHALL BE FAMILIAR WITH LANDLORD'S STANDARDS, RULES AND REGULATIONS. OBTAIN COPY OF MALL'S CRITERIA PACKAGE AND CONFORM TO ALL REQUIREMENTS. ALL LANDLORD'S CRITERIA SHALL BE COMPILED WITH AND INCLUDED IN THIS BID.

4. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND FIELD VERIFY EXISTING CONDITIONS TO ENSURE THAT THE WORK REPRESENTED ON THE DRAWINGS AND IN THESE SPECIFICATIONS CAN BE INSTALLED AS INDICATED. CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS TO SUIT FIELD CONDITIONS AS REQUIRED.

5. CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY CONNECTION POINTS, INCLUDING SIZES AND INVERTS WITH EXISTING FIELD CONDITIONS PRIOR TO START OF WORK.

6. MAKE ALL UTILITY CONNECTIONS AND INSTALLATIONS IN FULL ACCORDANCE WITH ALL UTILITY REGULATIONS. PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED BY UTILITY COMPANY. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.

7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS RELATED TO THE INSTALLATION OF THE WORK.

8. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, ACTS AND ALL AUTHORITIES HAVING JURISDICTION AND LANDLORD'S CRITERIA.

9. MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES FOR ALL FIXTURES AND EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.

10. CUTTING OF ROOF AND FLASHING OF PIPE CURBS, SANITARY VENT THROUGH ROOF, ETC. SHALL BE COORDINATED WITH AND PERFORMED BY LANDLORD S ROOFING CONTRACTOR. AT THIS CONTRACTOR'S EXPENSE. TO MAINTAIN ROOF WARRANTY. ALL VENT OUTLETS SHALL BE A MINIMUM OF 10'-0" AWAY FROM OR 3'-0" ABOVE ANY AIR INTAKES ON HVAC EQUIPMENT.

11. ALL HORIZONTAL FIRE PROTECTION SPRINKLER PIPING AND ALL ABOVE GRADE EXPOSED HORIZONTAL PIPING IS TO BE INSTALLED AS HIGH AS POSSIBLE.

12. CONTRACTOR SHALL COORDINATE TIMES TO WORK IN SPECIFIC AREA OF THE EXISTING BUILDING WITH THE BUILDING MANAGER AND WITH THE OCCUPANTS OF THE AREA AFFECTED BY THE WORK.

13. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS BEFORE COMMENCING ANY WORK.

14. SLEEVE AND SEAL ALL PIPE PENETRATIONS O WALLS AND FLOORS. APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATIONS AT FIRE RATED WALLS AND FLOORS, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT WITH SILICONE CAULK.

15. ALL DOMESTIC COLD, HOT AND TEMPERED WATER PIPING TO BE INSULATED WITH RIGID FIBERGLASS INSULATION WITH TYPE "ASJ" JACKET. COLD WATER PIPES TO HAVE 1" THICK INSULATION. DOMESTIC HOT AND TEMPERED WATER PIPES TO HAVE 1" THICK INSULATION.

16. THE P.C. IS TO INSPECT THE EXISTING SANITARY DRAIN TO VERIFY THAT IT HAS SUFFICIENT DEPTH FOR THE NEW WORK AND TO VERIFY THE DIRECTION OF FLOW. PRESSURE TEST THE EXISTING SANITARY DRAIN PRIOR TO THE START OF WORK. VERIFY THAT SEWER IS ACTIVE BY FLUSHING WITH WATER, A MINIMUM OF FIVE GALLONS PER MINUTE FOR FOUR HOURS PRIOR TO START OF WORK.

WATER HEATER SCHEDULE													
MARK	MFR	MODEL	STORAGE	RECOVERY	°F. RISE	VOLT/PHASE	HEAT INPUT	REMARKS					
EWH-1	A.O. SMITH	DEL-50	50 GAL	41 GPH	100	208V/3PH	10 kW	1,2,3					
2: C	ET WATER HEA ONSULT MANU OR A COMPLET ONFIRM VOLTA	FACTURER PF E SYSTEM.	RIOR TO PL	JRCHASE F									
PUMP SCHEDULE													
MARK	MFR	MODEL	GPM	TDH	OUTLET	VOLT/PHASE	REMARKS						

RP-1	GRUNDFOS	ALPHA 15-55	1	10	3/4"	120V/1PH	1,2					
F	 CONSULT MANUFACTURER PRIOR TO PURCHASE FOR EXACT MODEL AND ALL ACCESSORIES FOR A COMPLETE SYSTEM. COORDINATE EXACT VOLTAGE/PHASE WITH EC PRIOR TO PURCHASE AND ROUGH IN 											
2. C	OORDINATE E	XACT VOLTAG	E/PHASE W	TH EC PR	IOR TO F	URCHASE A	ND ROUGH IN					
		WATER	R HAMMER A	ARRESTER	R SCHED	ULE						
MFR: J.F	MFR: J.R. SMITH CONNECTION FIXTURE											
TAG	TAG MODEL NO. SIZE UNIT RATING REMARKS											
WHA-A 5005 3/4'		3/4"	1-11	THREA	THREADED NIPPLE CONNECTION							

	WHA-B	5010	1"	12-32	THREADED NIPPLE CONNECTION
WHA-C		5020	1"	33-60	THREADED NIPPLE CONNECTION
Γ					
	1. BR/	ANCH LINE LE	SS THAN 20 F	EET: THE PRE	FERRED PLACEMENT LOCATION IS AT THE END OF
	↓ THE	E BRANCH LI	NE BETWEEN T	HE LAST TWO) FIXTURES.
		UP	TO 20 FT		
				WHA-∖ ∩	

2. BRANCH LINES GREATER THAN 20 FEET: SIZE EACH W.H.A. FOR SUM OF BRANCH W.S.FU., PLACE W.H.A. AS SHOWN.

NOMINAL PIPE DIAMETER NPS (IN)	
	CAST IRON
1/2	
3/4	
1	5
1 1/4	5
1 1/2	5
2	5
2 1/2	5
3	5
4	5
6	5
8	5
10	5
12	5
1. SUPPORT SPACI ELBOWS, FLANG	

TABLE TO C
PLUMBING FIXTURE
VATER CLOSET (2 NEW, 2 EXISTING)
AVATORIES (2 NEW, 2 EXISTING)
NOP SINK
PRINKING FOUNTAIN/ WATER COOLER
GHOWER

MARK	FIXTURE
MS-1	MOP SINK MOLDED STONE
SH-1	SINGLE SHOWER W/ ROUGH IN
WC-1	FLOOR MOUNTED WATER CL FLUSH TANK PRESSURE ASS ADA COMPLIANT ELONGATED BOWL
LAV-1	WALL HUNG LAVATORY WITH CONCEALED ARM FLOOR PEDESTAL CARRIER ADA COMPLIANT
1. AN	GLE STOPS SHALL BE LOOSE
2. ALL TRU	L ADA ACCESSIBLE SINKS PTR JEBRO LAVGUARDS OR EQUIN CEPTABLE ALTERNATE.
	FOI
MARK	FIXTURE
DF-1	ELECTRIC WATER COOLER ADA COMPLIANT DUAL HEIGHT WITH BOTTLE FILLER
	<u>KS</u> OVIDE WITH BOTTLE FILLER OVIDE WITH ALL ANTI-MICROB

PIPE SUPPORT SCHEDULE

MAXIMUM SUPPORT SPACING (FEET)

COPPER	STEEL	SCH 40 PVC	SCH 40 CPVC					
		60°F	73°F	100°F	120°F	140°F		
8		-	5	4.5	4.5	4		
9		5	5	5	4.5	4		
9		5.5	5.5	5.5	5	4.5		
12	7	5.5	5.5	5.5	5.5	5		
12	9	6	6	5.5	5.5	5		
13	10	6	6	6	5.5	5		
14	11	7	7	6.5	6.5	6		
15	12	7	7	7	7	6		
17	12	7.5	7.5	7.5	7	6.5		
21	12	8.5	8.5	8	7.5	7		
24	12	9	9.5	9.5	8.5	7.5		
26	12	10	10.5	10.5	9.5	8		
30	12	11.5	11.5	10.5	10	8.5		
FOR STRA	IGHT HORIZOI	NTAL PIPE. PRO	VIDE SUF	PORTS	ON EACH	SIDE OF		

SPECIALTIES, ETC. 2. ALL PIPING SUPPORTS, THREADED ROD SIZES AND HANGERS SHALL BE PER MSS SP-69

	PLUMBING SYMBOLS LEGEND			FOUND	RY SCHEDULE			
— CA —	COMPRESSED AIR PIPING	MARK	FIXTURE	OUTLET	MANUFACTURER	MODEL#	REMARKS	
— G —	NATURAL GAS PIPING		FLOOR TRENCH STAINLESS STEEL BODY SLOTTED STAINLESS STEEL COVER	2"	ZURN	ZS880-36	2,4	
— CD —	CONDENSATE DRAIN PIPING COLD WATER PIPING	ID-1		2				
	HOT WATER PIPING (140°F)							
	HOT WATER RETURN PIPING		FLOOR DRAIN	AS SHOWN	ZURN	Z415-SZ1	1,2,3	
	SANITARY DRAIN PIPING	FD-1	FD-1 FLOOR DRAIN CAST IRON BODY 7" CHROME STRAINER					
	UNDERGROUND SANITARY PIPING		(LIGHT DUTY)	DWGS				
	SANITARY VENT PIPING		FLOOR CLEANOUT	AS	ZURN	Z1400-BZ1		
VTR	VENT THROUGH ROOF	FCO	CAST IRON BODY NICKEL BRONZE COVER	SHOWN ON DWGS				
——————————————————————————————————————	PIPE TURNING DOWN							
———————————————————————————————————————	PIPE TURNING UP				7	74.440	-	
	CHECK VALVE	wco	WALL CLEANOUT	AS SHOWN	ZURN	Z1446	5	
—	UNION		CAST IRON BODY	ON				
AFF	ABOVE FINISHED FLOOR			DWGS				
CO	CLEAN OUT	PLUMB	IING CONTRACTOR SHALL U	I JSE FOUN	DRY FIXTURES FRO	M A SINGLE N		
Å	PRESSURE REGULATING VALVE (PRV)	TO MAINTAIN UNIFORMITY THROUGHOUT THE SYSTEM.						
	BALL VALVE	REMAR	RKS:					
GCO	GRADE CLEAN OUT		1. PROVIDE WITH TRAP PRIMER CONNECTION 2. PROVIDE WITH SEDIMENT BUCKET 3. PROVIDE WITH VANDAL PROOF SCREWS					
\bigotimes	POINT OF CONNECTION	3. F						
Ø	BALANCE VALVE	4. PROVIDE WITH FULL GRATE 5. PROVIDE CLEANOUT PLUG WITH STAINLESS STEEL ACCESS COVER						

CALCULATE SUPPLY FIXTURE UNITS										
	SUPPLY FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL SUPPLY FIXTURE UNITS							
	2.5	4	10.0							
	1	4	4							
	3	1	3							
٦	0.5	1	0.5							
	2	2	4							
TOTAL SUPPLY FIXTURE 21.5										
			WATER PIPE SIZE= 1"							

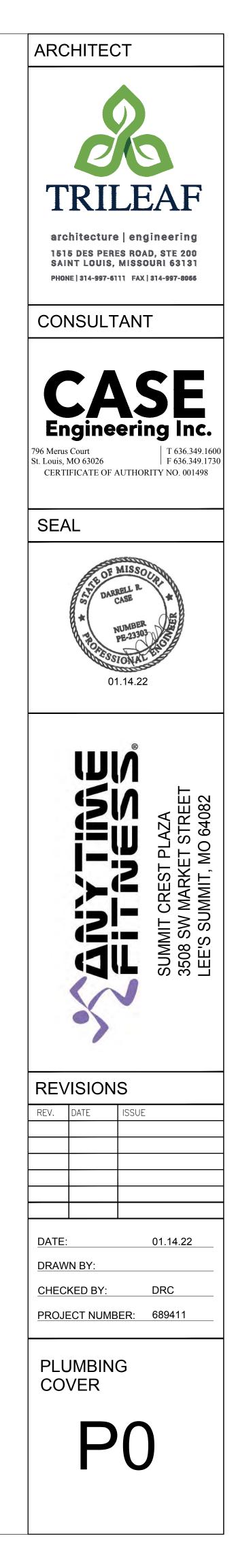
TABLE TO CALCULATE DRAINAGE FIXTURE UNITS										
PLUMBING FIXTURE	DRAINAGE FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS							
WATER CLOSET FLUSH TANK (2 NEW, 2 EXISTING)	4	4	16							
LAVATORIES (2 NEW, 2 EXISTING)	1	4	4							
MOP SINK	3	1	3							
DRINKING FOUNTAIN/ WATER COOLER	0.5	1	0.5							
SHOWER/TRENCH DRAIN	2	2	4							
FLOOR DRAIN (EMERGENCY)	0	4	0							
TOTAL DRAINAGE FIXTURE UNITS 27.5										
		SAN	NITARY WASTE SIZE= 4"							

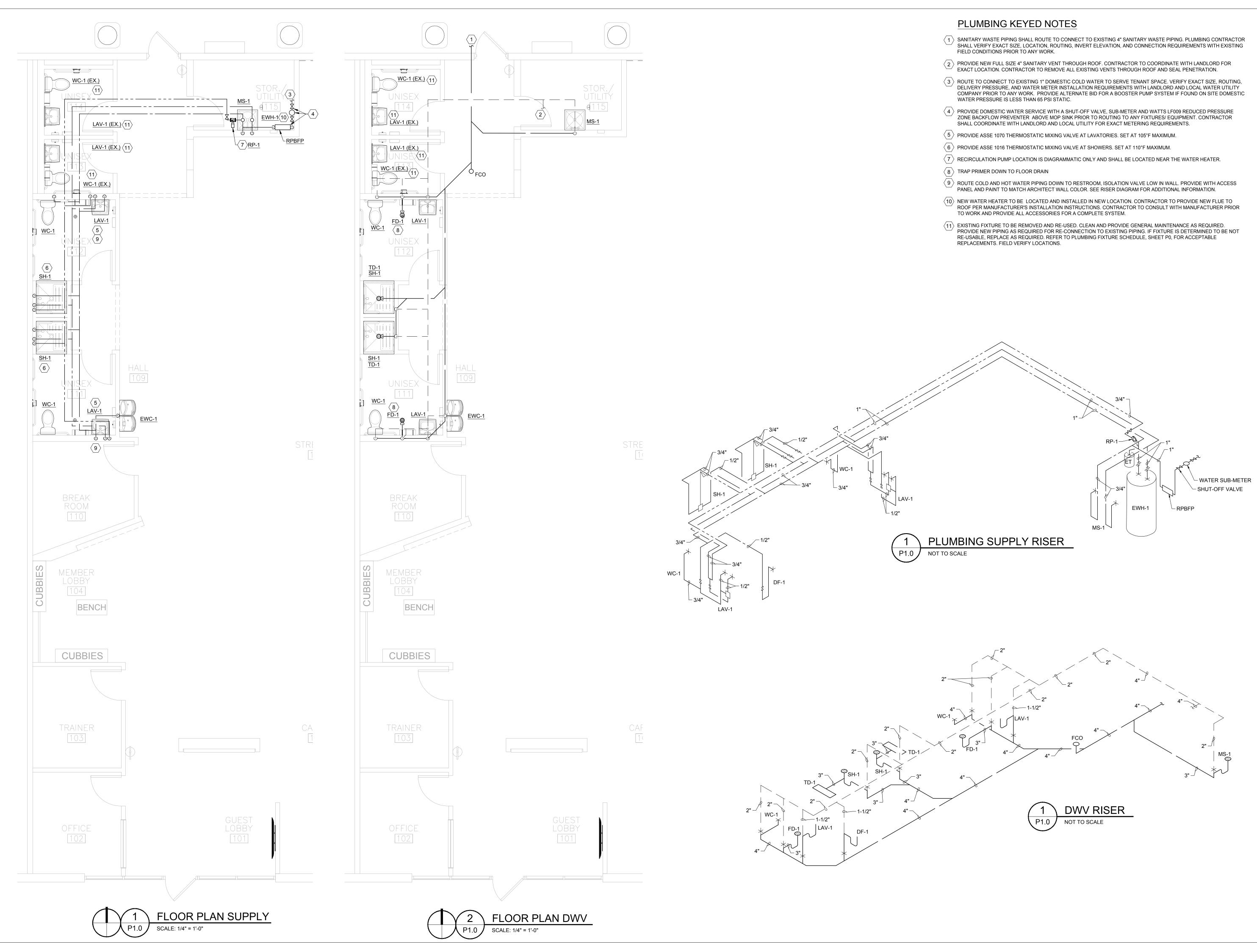
PLUMBING FIXTURE SCHEDULE												
	SAN.	VENT	C.W.	H.W.	GPM/GPF	MANUFACTURER	MODEL#	REMARKS				
	2"	1-1/2"	3/4"	3/4"		SWANSTONE	MS-2424	PROVIDE CHICAGO FAUCET: 897-RCF, INTEGRAL VACUUM BREAKER - VERIFY ACCESSORIES WITH OWNER.				
	3"	2"	1/2"	1/2"		DELTA		ADA, AND SHOWER WITH OPTIONAL 36" SLIDE BAR - 1.5 GPM WITH INTEGRAL THERMOSTATIC MIXING VALVE AND BACKFLOW PREVENTER.				
CLOSET SSIST	3"	2"	1/2"		1.1	AM. STANDARD		FURNISH WITH CHURCH OPEN FRONT SEAT MODEL NO. 5901, 110 A.D.A. COMPLIANT COLOR TO BE WHITE.				
२	2"	1 1/2"	1/2"	1/2"		AM. STANDARD	0355.012	ADA, PROVIDE AMERICAN STANDARD METERING FAUCET: 1340.225 WITH METAL DRAIN AND BRASS P-TRAP.				
ADDITIONAL REMARKS												

EKEYED WITH INTEGRAL CHECK VALVE. MCGUIRE LFCK SERIES OR EQUIVALENT. RAP AND DRAIN PIPING SHALL BE PROVIDED WITH MCGUIRE PREWRAPPED PW2125 SERIES OR EQUIVALENT. ALL SUPPLIES SHALL BE VALENT. WATCO IDEALLAV LAV DRAIN GRID DRAIN WITH INTERNAL STOPPER WITH P-TRAP WRAPPED IN TRUEBRO LAV GAURD IS

DUNTAI	N SCHEE	DULE			ACCEPTABLE MANUFACTURERS AND MODELS				
	SAN.	VENT	C.W.	VOLT/PHASE	MANUFACTURER	MODEL#	REMARKS		
	2"	1-1/2"	1/2"	120V/1PH	ELKAY	LZSTL8WSSK	1,2		

BIAL COMPONENTS

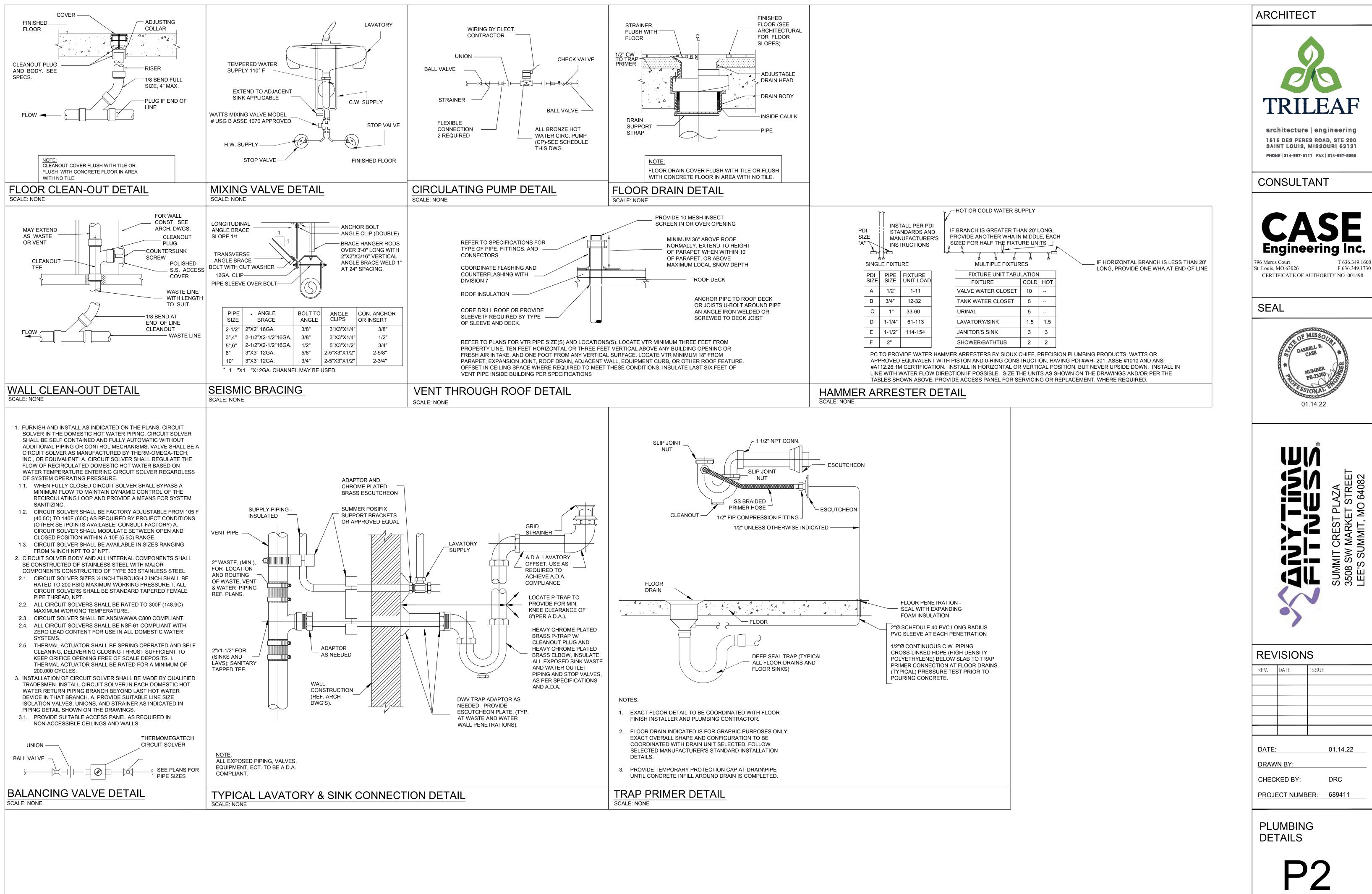




TRILEAF architecture | engineering 1515 DES PERES ROAD, STE 200 SAINT LOUIS, MISSOURI 63131 PHONE | 314-997-6111 FAX | 314-997-8066 CONSULTANT **Engineering Inc.** 796 Merus Court T 636.349.1600 St. Louis, MO 63026 F 636.349.1730 CERTIFICATE OF AUTHORITY NO. 001498 SEAL 01.14.22 ЕЩ 82 MO 64 SUMMIT SUMM 3508 S LEE'S AIL REVISIONS REV. DATE ISSUE DATE: 01.14.22 DRAWN BY: DRC CHECKED BY: PROJECT NUMBER: 689411

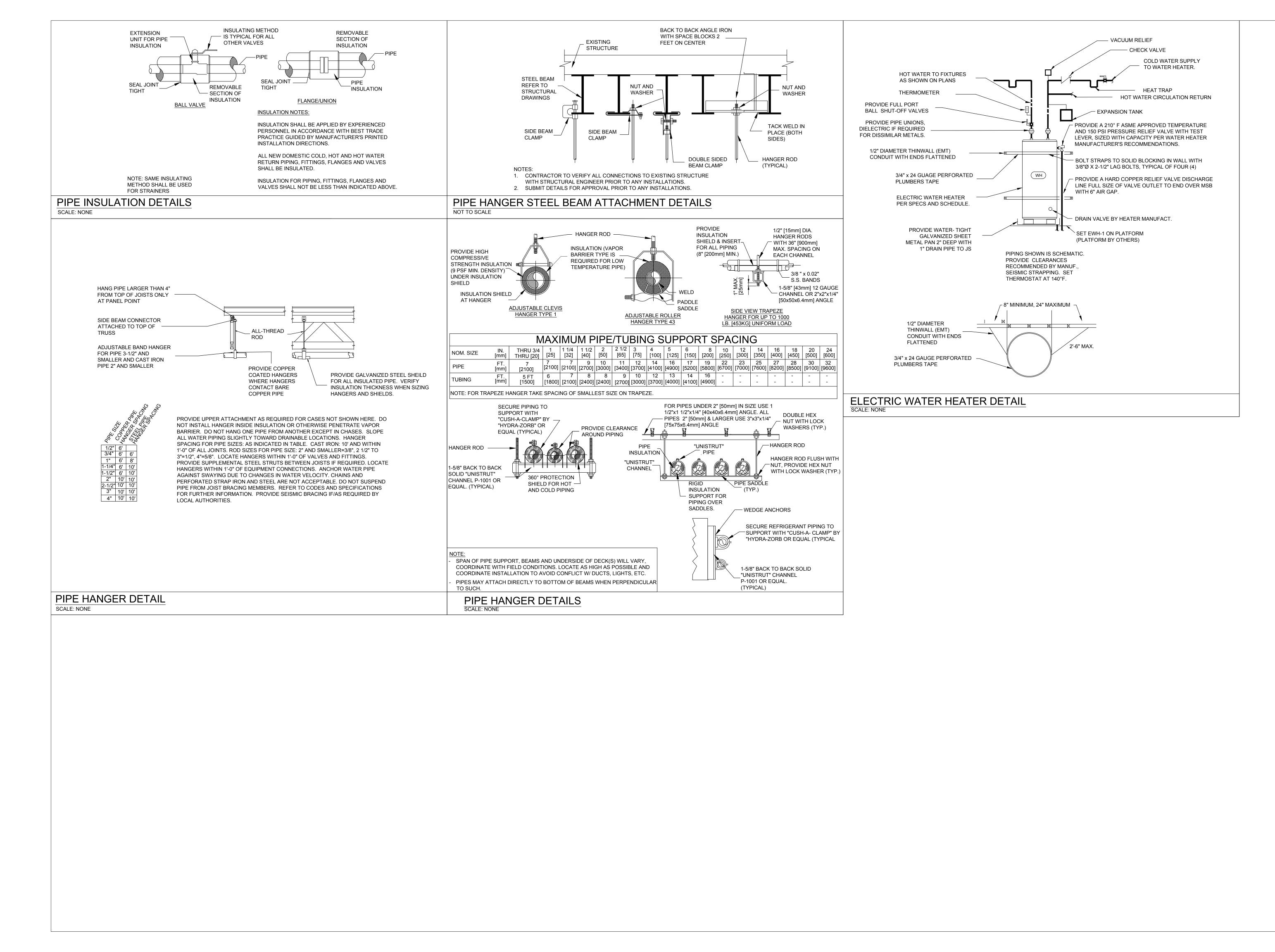
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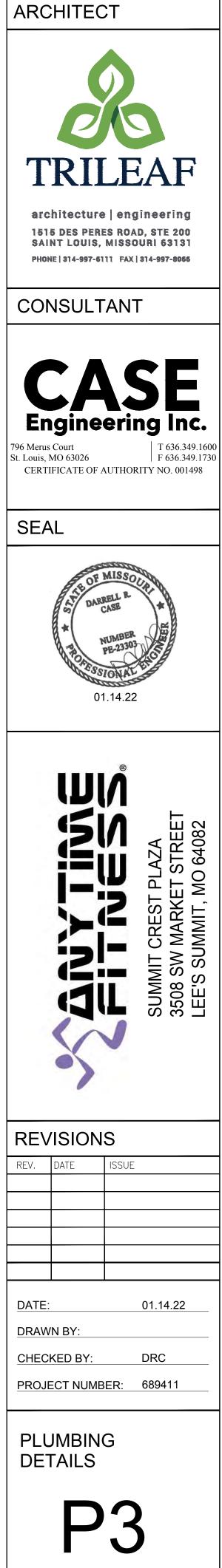
PLUMBING PLAN



01.14.22

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PLUMBING SPECIFICATIONS

THE "ARCHITECTURAL GENERAL CONDITIONS" GOVERN WORK UNDER THIS SECTION.

BEFORE SUBMITTING A PROPOSAL, THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS. IT IS EXPRESSLY UNDERSTOOD THAT THIS PROPOSAL IS BASED ON THE ABOVE REQUIREMENTS AND THAT IT COVERS EVERYTHING NECESSARY TO DO AND COMPLETE THE WORK.

INSPECTION AND COOPERATION

NO DEVIATION FROM THE DRAWINGS AND /OR SPECIFICATIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT OR ENGINEER. THIS CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS TO ALLOW FOR THE INSTALLATION OF THEIR WORK AS WELL AS HIS OWN.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE WITHOUT CONFLICT WITH THE OTHER TRADES, WHERE PROPER PLANNING COULD SPACING AND ALLOWANCE FOR THERMAL EXPANSION. AVOID INTERFERENCE.

CODES AND PERMIT

NOTHING IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE INTERPRETED TO INSTITUTE. CONFLICT WITH ANY CITY OR PROVINCIAL LAW, REGULATION, CODE, ORDINANCE, RULING, OR FIRE UNDERWRITER'S REQUIREMENT APPLICABLE TO THIS CLASS OF WORK

SHOULD THE DRAWINGS AND/OR SPECIFICATIONS CONFLICT WITH SUCH LAWS OR ORDINANCES, THE CONFLICTING PORTION OF THE WORK SHALL BE INSTALLED FILLED WITH GRAVEL. IF TRENCHES ARE DEEPER THAN BOTTOM OF FLOORING OR WAFER W/LOCK LEVER. STRICTLY IN ACCORDANCE WITH SUCH LAWS AND ORDINANCES WITHOUT EXTRA CLOSER THAN THREE FEET (3'0") TO FOOTING THEY MUST BE FILLED WITH

THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND COMPACTED TO 95% STANDARD PROCTOR. INSPECTIONS REQUIRED FOR THIS INSTALLATION OF HIS WORK.

ACCURACY OF DATA

THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL EXAMINE THE LOCATIONS AND VERIFY ALL MEASUREMENTS, FREE FROM CLODS, AND STONES THOROUGHLY TAMPED TO A DEPTH OF 12" DISTANCES, ELEVATIONS AND EXISTING PIPE SIZES BEFORE STARTING THE WORK ABOVE THE PIPE. AFTER THAT DEPTH HAS BEEN REACHED, BACKFILLING SHALL AS ALL PIPING SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY.

THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, RAISED AND DROPS IN PIPING AND DUCTWORK AS REQUIRED BY BUILDING CONDITIONS AT NO OR SAGS TO THE PIPING SYSTEMS THAT OCCUR FROM THE IMPROPER ADDITIONAL COST.

MECHANICAL DRAWINGS SHALL NOT BE USED FOR GENERAL CONSTRUCTION DIMENSIONS OR FOR TYPE OF MATERIAL USED. FOR EXACT BUILDING LAYOUT DIMENSIONS AND BUILDING MATERIAL USED, THIS CONTRACTOR SHALL REFER TO ANY STRUCTURAL STEEL MEMBERS REQUIRED TO ADAPT THE EQUIPMENT AND THE ARCHITECTURAL DRAWINGS.

SHOP DRAWINGS

SHOP OR INSTALLATION DRAWINGS, FOUNDATION PLANS, EQUIPMENT OR APPARATUS DRAWINGS SHALL BE FURNISHED BY THIS CONTRACTOR. THESE DRAWINGS SHALL BE CLEARLY MARKED INDICATING WHICH ITEMS ARE TO BE SUPPLIED AND SHALL STATE CAPACITIES, SIZES AND GENERAL DESCRIPTION OF ALL EQUIPMENT. ANY CHANGES FROM THE SPECIFIED ITEMS SHALL BE NOTED ON THE SUBMITTALS.

SHOP DRAWINGS OF SPECIAL APPARATUS OR EQUIPMENT WHICH IS TO BE FABRICATED INDIVIDUALLY FOR THIS PROJECT AND IS NOT DESCRIBED BY STANDARD MANUFACTURER'S DRAWINGS OR BULLETINS SHALL BE SUBMITTED FOR PROCESSING BEFORE FABRICATION.

THESE DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER.

T SHALL BE THIS CONTRACTORS RESPONSIBILITY TO MAINTAIN LIAISON WITH ALL ALL PATCHING SHALL BE NEATLY FINISHED TO THE SATISFACTION OF THE PARTIES CONCERNED WITH THE MATERIAL SUBMITTED. THIS CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT UNTIL SHOP DRAWINGS HAVE BEEN PROCESSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FEES ACCRUED FROM THE RETURN OF FIXTURES PURCHASED PRIOR TO THE REVIEW OF SHOP DRAWINGS AND THAT ARE NOT APPROVED.

THIS CONTRACTOR SHALL SUBMIT NO DRAWINGS WITHOUT NOTATION INDICATING DATE OF CONTRACTOR'S REVIEW AND SIGNATURE OF CHECK FOR CONTRACTOR TOGETHER WITH CONTRACTOR'S NAME AND PROJECT IDENTIFICATION.

ARCHITECT'S PROCESSING WILL NOT CONSTITUTE A COMPLETE CHECK BUT WILL INDICATE ONLY THAT GENERAL METHOD OF CONSTRUCTION AND DETAILING IS

ARCHITECT'S PROCESSING WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS SINCE THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS AND DESIGNS OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK, AS WELL AS FURNISHING MATERIALS AND WORKMANSHIP REQUIRED BY DRAWINGS AND SPECIFICATIONS WHICH MAY NOT BE INDICATED ON THE SUBMITTALS WHEN APPROVED.

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING ENGINEER 13. MOTORS, STARTERS AND DISCONNECTS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT, THE CONTRACTOR IS RESPONSIBLE FOR: FOUIPMENT VOLTAGES AND DIMENSIONS TO BE CONFIRMED AND CORRELATED WITH ALL DISCIPLINES PRIOR TO PURCHASE. INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS. METHODS. TECHNIQUES. SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

6. SUBSTITUTIONS OF EQUIPMENT OR MATERIAL

THE BRAND NAMES OF EQUIPMENT OR MATERIALS SPECIFIED HEREIN SHALL ESTABLISH QUALITY, CAPACITY, TYPE AND DIMENSIONS TO BE INCLUDED IN THE BASE BID.

APPROVAL OF SUBSTITUTED ITEMS WILL BE BASED ON ABILITY AND CAPACITY TO PERFORM FUNCTION SERVED, QUALITY AND AVAILABILITY OF PARTS AND SERVICE, QUALITY OF EQUIPMENT, DELIVERY SCHEDULE, ETC. THE ARCHITECT SHALL REVIEW ALL SUCH REQUESTS BUT RESERVES THE SOLE RIGHT OF JUDGEMENT TO APPROVE OR REJECT THE PROPOSED SUBSTITUTIONS.

ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL NOT CAUSE ADDITIONAL COST. ANY CHANGES OF PIPING, DUCTWORK, ELECTRICAL CONTROLS OR INSTALLATION REQUIRED BECAUSE OF THE SUBSTITUTION OR EQUIPMENT SHALL BE PAID FOR BY THIS CONTRACTOR PROPOSING THE SUBSTITUTION

ERECTION OF APPARATUS

ALL WORK SHALL BE DONE UNDER THE PERSONAL SUPERVISION OF THIS CONTRACTOR WHO SHALL PROVIDE A COMPETENT FOREMAN TO LAY OUT ALL WORK. ALL WORK SHALL BE LAID OUT WITH DUE REGARD FOR THE SPACE REQUIREMENTS OF THE OTHER CONTRACTORS. THIS CONTRACTOR SHALL REPORT ANY CONFLICTS OR DIFFICULTIES IN REGARD TO THE INSTALLATION IMMEDIATELY.

WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, THIS CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATIONS OF PIPES, DUCT, CONDUIT AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY ARCHITECT AND ENGINEER BEFORE INSTALLATION OF THE WORK.

EQUIPMENT OF A TYPE TO REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES, IT REQUIRED.

8. EXCAVATION AND BACKFILL

THIS CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED TO INSTALL PIPES AND FLEXIBLE PIPE CONNECTIONS SHALL BE RESISTOFLEX #R6904 OR APPROVED EQUIPMENT SHOWN ON THE PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITIES SERVICES LINES SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

INSTALL PLASTIC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, 17. VALVES APPENDIX X1 OF ASTM D2265 (STORAGE AND INSTALLATION PROCEDURES FOR PLASTIC DRAIN, WASTE, AND VENT PIPING) AND FOR BURIED PIPE ASTM D2321 (STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS). SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND MANUFACTURERS, SUCH AS HAMMOND, NIBCO-SCOTT AND/OR JENKINS WILL BE GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND

CAST IRON PIPING TRENCHING SHALL BE IN ACCORDANCE TO THE CAST IRON SOIL PIPE AND FITTINGS HANDBOOK ISSUED BY THE CAST IRON SOIL PIPE

THE BOTTOM OF TRENCHES SHALL BE TAMPED HARD AN GRADED TO SECURE THE REQUIRED FALL. ROCK, WHERE ENCOUNTERED SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES (6") BELOW THE BOTTOM OF THE PIPE, AND BEFORE THE PIPE IS LAID, THE SPACE BETWEEN BOTTOM PIPE AND ROCK SURFACE SHALL BE COHESIVE SOIL AND COMPACTED TO 95% OF MAXIMUM DENSITY, STANDARD PROCTOR, ASTM D- 698. ALL OTHER EXCAVATIONS UNDER FLOOR SLABS

WHEN EXCESS DIRT HAS BEEN REMOVED, THE TRENCH SHALL BE BROUGHT TO THE REQUIRED LEVEL WITH SAND AND GRAVEL FIRMLY COMPACTED.

TRENCHES AND EXCAVATION SHALL BE BACKFILLED IN 6" LAYERS OF EARTH, BE DONE IN 12" LAYERS, THOROUGHLY TAMPED.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO ANY DAMAGES EXCAVATION AND BACKFILL METHODS.

EQUIPMENT SUPPORTS 9.

PIPING AS FURNISHED BY THIS CONTRACTOR, TO THE BUILDING STEEL OR STRUCTURE, SHALL BE INCLUDED IN THE BID OF THE CONTRACTOR FURNISHING THE EQUIPMENT OR PIPING. HANGING OF ALL EQUIPMENT AND REQUIRED SUPPORTING STEEL AND BRACING SHALL BE FURNISHED BY THE CONTRACTOR WHO SUPPLIES THE EQUIPMENT.

CUTTING AND PATCHING 10.

THIS CONTRACTOR SHALL INCLUDE ALL CUTTING, PATCHING AND PAINTING OF PATCHED AREAS REQUIRED FOR AND RESULTING FROM THE INSTALLATION OF ALL OF THIS CONTRACTOR'S WORK, EXCEPT WHERE NOTED OTHERWISE.

ALL OPENINGS AROUND PIPE PENETRATIONS THROUGH SMOKE OR FIRE-RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIAL HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING AND/OR FLOOR PENETRATED.

ARCHITECT.

11. ACCESS PANELS

THIS CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY THE GENERAL CONTRACTOR, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, AND THE PROPER SERVICING OF EQUIPMENT AND LINES INSTALLED UNDER THE CONTRACT

ALL PANELS SHALL BE MILCOR, STYLE "M" FOR MASONRY, "A" FOR ACOUSTICAL TILE AND "K" FOR PLASTER; EXCEPT FOR FIRE-RATED UL 1-1/2 HOUR AND "B" LABEL ACCESS PANELS SHALL BE FURNISHED IN FIRE-RATED WALLS AND CEILINGS AS INDICATED ON THE DRAWINGS. ACCESS DOORS SHALL BE 12" X 12" MINIMUM SIZE FOR VALVES.

12. DIELECTRIC UNIONS

FOR THE PREVENTION OF ELECTROLYTIC CORROSION AT CONNECTIONS BETWEEN PIPE OF DISSIMILAR METALS OR BETWEEN PIPE AND EQUIPMENT CONNECTIONS OF DISSIMILAR METALS, PROVIDE DIELECTRIC UNIONS OR FLANGES.

UNLESS SPECIFIED TO BE FURNISHED WITH EQUIPMENT, ALL MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

14. JOINTS AND FITTINGS

THREADS ON SCREWED PIPE SHALL BE STANDARD, CLEAN BUTT AND TAPERED. PIPE SHALL BE REAMED OF BURRS AND KEPT CLEAN OF SCALE, DIRT AND SHAVINGS, TREADS SHALL BE MADE WITH FLAKED GRAPHITE AND LUBRICATING OIL OR APPROVED PIPE COMPOUND ON THE MALE THREAD ONLY.

COPPER-TO-STEEL AND COPPER-TO-BRASS JOINTS SHALL BE MADE WITH SILVER SOLDER. ALL OTHER COPPER-TO-COPPER JOINTS ABOVE GROUND SHALL BE MADE WITH LEAD FREE SOLDER. COPPER PIPE SHALL BE CUT SQUARE, BURRS REMOVED AND CARE SHALL BE GIVEN TO KEEP THE LINES FREE OF DIRT AND MOISTURE. ALL TUBING AND FITTINGS SHALL BE THOROUGHLY CLEANED.

WELDED PIPE SHALL HAVE BUTT WELDED SINGLE "V" TYPE JOINTS FOR WHICH PIPE HAS BEEN BEVELED TO 45 DEGREES. WELD SHALL BE ONE-FOURTH GREATER THICKNESS THAN THE PIPE. CONNECTIONS TO EQUIPMENT, ACCESSORIES, ETC. SHALL BE MADE BY MEANS OF FLANGES AND/OR ADAPTERS.

UNIONS SHALL BE PROVIDED AT EACH SCREWED VALVE AND UNIONS OR FLANGES AT EACH EQUIPMENT CONNECTION

15. EXPANSION JOINTS

FURNISH AND INSTALL FLEXONICS EXPANSION JOINTS IN PIPING SYSTEM WHERE SHOWN OR NECESSARY FOR EXPANSION AND CONTRACTION.

EXPANSION JOINTS IN PIPE 4" AND GREATER SHALL BE THE PACKLESS TYPE WITH AROUND PIPE IN UNFINISHED ROOMS. STAINLESS STEEL BELLOWS AND HAVE WELDED OR FLANGED END. JOINTS SHALL HAVE TRAVERSE AS INDICATED ON THE PLANS. EXPANSION JOINTS SHALL BE OF 23. FIRE STOPPING THE CONTROLLED FLEXING TYPE.

EXPANSION JOINTS IN COPPER PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL BELLOWS AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

EXPANSION JOINTS IN STEEL PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL ELBOWS AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

PROVIDE GUIDES ON EACH SIDE OF EXPANSION JOINT, AT 4 PIPE DIAMETERS, 14 PIPE DIAMETERS, AND A THIRD GUIDE AS RECOMMENDED BY THE MANUFACTURER.

INSTALLATION OF FIRESTOPPING SHALL BE INSTALLED IN ACCORDANCE WITH AND IN STRICT CONFORMITY WITH MANUFACTURER'S PRINTED INSTRUCTIONS AS

EQUAL FLEXIBLE CONNECTIONS MADE FROM TEFLON.

FIXTURE GROUPS.

THIS CONTRACTOR SHALL LAY OUT ALL HIS WORK AND SET SLEEVES IN NEW CONSTRUCTION AS CONCRETE FORMS AND WALL ARE ERECTED SO AS TO BE ABLE TO INSTALL HIS WORK WITHOUT CUTTING OR BREAKING OF FLOORS OR WALLS. ALL SLEEVES FOR INSULATED PIPING SHALL BE LARGE ENOUGH TO ALLOW INSULATION TO PASS THROUGH SLEEVE.

FILLED WITH MASTIC AND MUST BE WATERTIGHT.

SHALL BE MADE WATERTIGHT

19. <u>HANGERS</u>

FI OOR

20. DAMAGE BY LEAKS

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS. WALKS, ROADS, ALL BUILDING COMPONENTS AND FINISHES, PIPING SYSTEMS, ELECTRICAL SYSTEMS AND THEIR EQUIPMENT AND CONTENT, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED HEREIN. ALL REPAIRS WILL BE MADE AT THIS CONTRACTOR'S EXPENSE.

21. <u>PIPE MARKERS</u>

PIPES PASSING THROUGH FLOORS AND FINISHED CEILINGS, FITTED WITH CHROME- PLATED PLATES OR ESCUTCHEONS LARGE ENOUGH TO COMPLETELY CLOSE OPENING AROUND PIPE OR PIPE COVERING AND FLOOR SUPPORT IN THE CASE OF VERTICAL PIPING, SECURELY HELD IN PLACE; CAULK WATERTIGHT

PROTECTED BY A UL APPROVED MATERIAL TO RETAIN THE INTEGRITY OF THE TIME-RATED CONSTRUCTION BY MAINTAINING AS EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES. IT SHALL BE USED IN ALL DUCT CABLE, CONDUIT AND PIPING PENETRATIONS THROUGH FLOOR SLABS AND TIME-RATED WALLS, AND/OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE TIME-RATED ASSEMBLY.

16. <u>PIPE FLEXIBLE CONNECTIONS</u>

PROVIDE FOR MOVEMENT IN PIPING BY USE OF SWING JOINTS AT CONNECTION OF ALL BRANCHES TO MAINS AND RISERS. ALL BRANCHES FROM MAINS AND RISERS SHALL HAVE 1/4" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE TO PERMIT PIPE MOVEMENT.

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL VALVES OF ONE MANUFACTURER, FIGURE NUMBER AND TYPE THROUGHOUT THE ENTIRE INSTALLATION OF THE WORK, UNLESS OTHERWISE SPECIFIED. THE FOLLOWING NUMBERS ARE FROM THE CRANE CATALOG. EQUAL VALVES OF REPUTABLE CONSIDERED EQUIVALENT

ALL VALVES SHALL BE BUILT FOR A MINIMUM OF 125 PSIG WORKING PRESSURE. ISOLATION VALVES SHALL BE PROVIDED ON ALL INDIVIDUAL FIXTURES AND

CHECK VALVES 2-1/2" AND SMALLER SHALL BE #36 (SCREWED ENDS) OR #1342 (SOLDER-JOINT ENDS) SWING-TYPE WITH BRONZE BODY AND BRONZE TRIM.

BUTTERFLY VALVES 2" AND LARGER SHALL BE #12F, IRON BODY, CAST-IRON

BALL VALVE UP TO 3" IN SIZE SHALL BE APOLLO SERIES #70 BRONZE VALVE WITH CHROME-PLATED BALL AND TEFLON SEAT.

GAS LINE COCKS UP TO 4" SHALL BE #320. 1/2 PSI FOR INDOOR APPLIANCE CONNECTIONS SHALL CONFORM TO ANSI Z21.15 AND CSA 9.1, 5 PSI FOR INDOOR SHUTOFF SHALL CONFORM TO CGA 91-002 AND ASME B16.44

HOSE END VALVES SHALL BE #438 GATE VALVES WITH HOSE END NIPPLES.

18. <u>PIPE SLEEVES AND COLLARS</u>

ALL SLEEVES PASSING THROUGH FLOORS WHICH ARE WATERPROOFED SHALL BE COPPER TUBING SLEEVES EXTENDING 1" ABOVE FINISHED FLOOR. ALL OTHER SLEEVES SHALL BE 24 GAUGE GALVANIZED PIPES AND SLEEVES TO BE

ALL SLEEVES PASSING THROUGH INNER WALLS SHALL BE STANDARD PIPE THIMBLES EQUAL TO THE THICKNESS OF THE WALL.

SPACES BETWEEN PIPES AND SLEEVES THROUGH OUTSIDE WALLS, ABOVE GRADE, SHALL BE CAULKED WITH CAULKING COMPOUND; THOSE BELOW GRADE 26. <u>TESTING AND BALANCING</u>

SPACE AROUND ALL PIPING THROUGH FIRE OR SMOKE RATED PARTITIONS OR FLOORS SHALL BE SEALED AIRTIGHT WITH MATERIALS OR EQUIPMENT AS SPECIFIED UNDER FIRESTOPPING.

ALL PIPE PENETRATIONS OF SLABS ON GRADE SHALL BE WRAPPED WITH #15 BUILDING FELTS OR FOAM WRAP.

- A. PIPE HANGER AND SUPPORT PRODUCTS INSTALLATION
- a. VERTICAL PIPING: MSS TYPE 8 OR 42 CLAMPS. INDIVIDUAL, STRAIGHT, HORIZONTAL PIPING RUNS: 100 FEET AND LESS: MSS TYPE 1, ADJUSTABLE, STEEL CLEVIS HANGERS. LONGER THAN 100 FEET: MSS TYPE 43, ADJUSTABLE ROLLER HANGERS. LONGER THAN 100 FEET IF INDICATED: MSS TYPE 49, 28. <u>GUARANTEE</u>
- SPRING CUSHION ROLLS. c. MULTIPLE, STRAIGHT, HORIZONTAL PIPING RUNS 100 FEET OR LONGER: MSS TYPE 44, PIPE ROLLS. SUPPORT PIPE ROLLS ON
- TRAPEZE d. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS.

B. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH

C. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD

HANGERS, TO A MINIMUM OF 3/8 INCH D. INSTALL HANGERS FOR ALL PIPING PER MSS SP-69, MANUFACTURERS MANUALS AND AS PER HANGER SUPPORT DETAIL ON DRAWINGS E. INSTALL SUPPORTS FOR VERTICAL COPPER TUBING EVERY 10 FEET. F. INSTALL SUPPORTS FOR VERTICAL STEEL PIPING EVERY 15 FEET. G. SUPPORT PIPING AND TUBING NOT LISTED IN THIS ARTICLE ACCORDING TO MSS SP-69 AND MANUFACTURER'S WRITTEN

INSTRUCTIONS.

FURNISH AND INSTALL BRADY #B-350 THIN FILM OR APPROVED EQUAL PIPE MARKERS. MARKERS SHALL BE 1-1/8" HIGH FOR PIPES 3" AND UNDER AND 2-1/4" HIGH FOR PIPES OVER 3". MARKERS SHALL INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.

PIPE MARKERS SHALL BE LOCATED:

 AT EQUIPMENT CONNECTIONS AT ACCESS DOORS

 AT BRANCH MAINS ON ALL ACCESSIBLE PIPE A MAXIMUM OF 75' BETWEEN MARKERS AT ALL PENETRATIONS ON EITHER SIDE OF PENETRATION

22. FLOOR, WALL AND CEILING PLATES

FIRESTOPPING MATERIAL SHALL BE 3M FIRE BARRIER SEALING SYSTEM OF APPROVED EQUAL. FIRESTOPPING MATERIAL SHALL CONSTITUTE ONE OR MORE OF THE FOLLOWING PRODUCTS:

CAULK: CP-25

• PUTTY: #303 WRAP/STRIP: FS195

COMPOSITE SHEET: CS195

PENETRATING SEALING SYSTEMS: 7900 SERIES

TO SURFACE PREPARATION, INSTALLATION AND QUALITY CONTROL. AREAS OF WORK SHALL REMAIN ACCESSIBLE UNTIL INSPECTION AND APPROVAL BY THE APPLICABLE CODE AUTHORITIES.

ON INSULATED PIPES, THE FIRE-RATING CLASSIFICATION SHALL NOT REQUIRE REMOVAL OF THE INSULATION.

QUALITY ASSURANCE

SUBMIT MANUFACTURER'S PRODUCT DATA, LETTER OF CERTIFICATION OR CERTIFIED LABORATORY TEST REPORT THAT THE MATERIAL OR COMBINATION OF MATERIALS MEET THE REQUIREMENTS SPECIFIED IN ASTM E814 AND ARE SO CLASSIFIED IN UL'S BUILDING MATERIALS DIRECTORY. MATERIALS SHALL MEET AND BE ACCEPTABLE FOR USE BY ALL MODEL BUILDING CODES. MATERIALS SHALL MEET THE REQUIREMENTS OF NFPME61- LIFE SAFETY CODE AND NFPA 70 NATIONAL ELECTRICAL CODE.

SUBMITTAL S

SUBMIT SHOP DRAWINGS, PRODUCT DATA, CERTIFICATES AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUBMIT MANUFACTURER'S PRODUCT DATA FOR ALL MATERIALS AND PREFABRICATED DEVICES, PROVIDING DESCRIPTIONS SUFFICIENT FOR IDENTIFICATION AT THE JOB SITE. INCLUDE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

SUBMIT SHOP DRAWINGS SHOWING PROPOSED MATERIAL, REINFORCEMENT. ANCHORAGE, FASTENINGS, AND METHOD OF INSTALLATION. CONSTRUCTION DETAILS SHALL ACCURATELY REFLECT ACTUAL JOB CONDITIONS.

24. <u>CLEANUP AND ADJUSTMENT</u>

ALL PARTS WORK LEFT CLEAN: EQUIPMENT, FIXTURES, VALVES, PIPES AND FITTINGS CLEANED OF GREASE AND METAL CUTTINGS. ANY DISCOLORATION OR OTHER DAMAGE TO PORTIONS OF BUILDING, ITS FINISH OR FURNISHING DUE TO THIS CONTRACTORS FAILURE TO PROPERLY CLEAN INTERIOR OF PIPING, REPAIRED AT THIS CONTRACTOR'S EXPENSE. ALL AUTOMATIC CONTROL DEVISES ADJUSTED FOR PROPER OPERATION. ALL SURPLUS MATERIALS AND ANY RUBBISH REMOVED AS IT ACCUMULATES. ALL EQUIPMENT LEFT IN SAFE, PROPER AND AS DIRECT AS POSSIBLE, AVOIDING ALL UNNECESSARY OFFSETS. THE OPERATING CONDITION.

DAMAGE TO ANY PORTIONS MUST BE REPAIRED OF THE PART REPLACED BY THIS CONTRACTOR AND ALL PARTS LEFT WITHOUT DENTS, SCRATCHES, THROUGH THE FINISH PAINT, LOOSE PLASTER, STAINS OR OTHER BLEMISHES.

25. PIPE TESTING AND START-UP

ALL PIPING TO BE TESTED IN ACCORDANCE WITH THE FOLLOWING: WATER - 100 PSI WATER PRESSURE

ALL TESTING MUST HOLD FOR AT LEAST 24 HOURS WITHOUT LOSS OF PRESSURE NOT ALL CLEANOUTS LOCATIONS MAY BE SHOWN ON THE DRAWING. OR VACUUM. ALL CONCEALED PIPING SHALL BE TESTED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE PRIOR TO COVERING. BEFORE STARTING ANY SYSTEM, ALL EQUIPMENT SHALL BE LUBRICATED PER MANUFACTURERS REQUIREMENTS BY THIS CONTRACTOR. TEST ENTIRE BUILDING SYSTEMS UNDER PIPE SHALL BE MADE WITH "Y" BRANCHES TO "TY" BRANCHES WHEREVER THOROUGHLY PACKED WITH WATERPROOF SEALANT AND THE REMAINING SPACE FULL LOAD CONDITIONS FOR A PERIOD OF NOT LESS THAT ONE (1) WEEK DURING WHICH TIME THE OPERATING PERSONNEL SHALL BE FULLY INSTRUCTED IN THE OPERATION AND MAINTENANCE OF THE PLANT. AFTER THE PLANT IS IN FULL OPERATION, THIS CONTRACTOR IS TO FURNISH WHATEVER ADDITIONAL SERVICE NO CEILING. IS REQUIRED TO RECALIBRATE AND RESET CONTROLS, VALVES, BALANCING COCKS, ETC. TO ENSURE PROPER OPERATION OF THIS SYSTEM.

THIS CONTRACTOR SHALL AT THE TIME OF INSTALLATION ENSURE THAT ALL DEVICES TO COMPLETE TESTING AND BALANCING AS DIRECTED HEREIN ARE FURNISHED AND INSTALLED DURING FABRICATION AND INSTALLATION OF WORK THIS WORK SHALL BE PERFORMED PRIOR TO TURNOVER TO BUILDING OCCUPANT AND WITH AMPLE TIME TO MAKE ANY NECESSARY REPAIRS OR CHANGES TO ACHIEVE A PROPERLY OPERATING SYSTEM.

27. SEISMIC RESTRAINTS ON MECHANICAL EQUIPMENT

ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINING SERVICES AS REQUIRED BY LOCAL BUILDING CODES. CONTRACTOR SHALL HAVE LOCAL BUILDING OFFICE REVIEW EACH PIECE OF EQUIPMENT WHEN INSTALLED AND THE CONTRACTOR SHALL INSTALL ALL REQUIRED TIE DOWN, ANCHORS, STRAPS OR OTHER DEVICES REQUIRED.

THIS CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS, AND LABOR FURNISHED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL REPAIR OR REPLACE ANY EQUIPMENT OR MATERIAL WHICH IS DEFECTIVE OR IMPROPERLY INSTALLED. IN ADDITION, THIS CONTRACTOR SHALL ASSUME FULL ABS AND FOAM CORE PVC ARE NOT ACCEPTABLE MATERIALS. RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OF OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

29. TEMPORARY WATER

TEMPORARY WATER SERVICE (IF REQUIRED) TO THE BUILDING SHALL BE PROVIDED BY THIS CONTRACTOR TO THE BUILDING FOR CONSTRUCTION PURPOSES. THIS CONTRACTOR TO MAINTAIN WATER SERVICE AS REQUIRED DURING CONSTRUCTION.

30. DOMESTIC WATER SERVICE

THIS CONTRACTOR SHALL COORDINATE EXACT AVAILABLE DELIVERY PRESSURE AND PROVIDE ALTERNATE FEE FOR A PRESSURE BOOSTING SYSTEM IF PRESSURE IS LESS THAN 65PSI STATIC. PROVIDE PRESSURE REDUCING VALVE WITH STRAINER IN SERVICE LINE IF REQUIRED BY LOCAL CODES OR PRESSURE IS INSTALLED IN CONCEALED PLACES SUCH AS IN PARTITIONS OR WALLS ETC. ABOVE 80 PSI.

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND PRESS FITTINGS ARE AN ACCEPTABLE IF ALLOWED BY LOCAL AHJ. WHERE PRESS FITTING S ARE NOT ALLOWED SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE. VICTAULIC GROUVED COUPLINGS ARE ACCEPTABLE ALTERNATE IF ALLOWED BY LOCAL AHJ.

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING; E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE, SOLDER, 1200 DEG. F OR GREATER MELTING POINT.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO AND WOODEN CRATES DURING CONSTRUCTION. EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.

MATERIALS - UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN. ALTERNATE MATERIALS - PEX-A PIPING IS AN ACCEPTABLE ALTERNATE IF NOT INSTALLED IN A PLENUM AND APPROVED BY LOCAL CODE OFFICIALS. VIEGA, PROPRESS COPPER 1/2-INCH THROUGH 4-INCH WITH EPDM SEALING THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS OR FLOORS SHALL BE ELEMENT AND/OR VIEGA, PROPRESS 304 OR 316 STAINLESS ½-INCH THROUGH 4-INCH WITH EPDM OR FKM SEALING ELEMENT IS ACCEPTABLE IF ALLOWED BY LOCAL CODE

31. STERILIZATION OF DOMESTIC WATER SYSTEM

THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL BE FLUSHED CLEAR ALL INSULATION SHALL HAVE COMPOSITE (INSULATION, JACKET OR FACINGS AND OF ANY DEBRIS AND THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING NOT LESS THAN 100 PARTS PER MILLION OF AVAILABLE CHLORINE. THE SOLUTION AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84. NFPA 225 SHALL REMAIN IN THE SYSTEM FOR TWO (2) HOURS DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUE CHLORINE CONTENT IS NOT GREATER THAN THE CHLORINE LEVEL OF THE AVAILABLE WATER SUPPLY.

STERILIZATION SHALL BE PERFORMED PRIOR TO TURNOVER TO OCCUPANT AS TO FOR FITTINGS SHALL HAVE THE SAME COMPONENTS RATINGS AS LISTED ABOVE. NOT ALLOW FOR THE WATER SYSTEM TO REMAIN STAGNANT FOR LONGER THAN 24 HOURS.

THIS CONTRACTOR SHALL HAVE THE WATER TESTED AND APPROVED BY THE HEALTH DEPARTMENT.

32. <u>SANITARY SEWERS</u>

THIS CONTRACTOR SHALL CONNECT SANITARY SEWER AS INDICATED ON THE DRAWINGS. VERIFY DIRECTION OF FLOW PRIOR TO ANY ROUGH-IN WORK.

EACH PIPE SHALL BE LAID TO THE LINE AND GRADE INDICATED ON THE PLANS AND SUCH A MANNER AS TO FORM A CLOSE CONCENTRIC JOINT WITH THE ADJOINING PIPE AND TO PRESENT OFFSETS IN FLOW LINE. ALL PIPE SHALL BE LAID WITH THE BELLS UPHILL.

THE SUB-GRADES SHALL BE KEPT FREE FROM WATER WHILE PIPES ARE BEING LAID. ALL PIPE SHALL BE LAID WITH ENDS ABUTTING AND TRUE TO LINE AND GRADE. THEY SHALL BE FITTED AND MATCHED SO THAT THEY WILL FORM A SEWER WITH A SMOOTH AND UNIFORM INVERT.

BEFORE PIPES ARE JOINED.

PVC SEWER PIPE MAY BE USED IN LIEU OF THAT SPECIFIED ABOVE IF ALLOWED BY LOCAL CODES.

ABS AND FOAM CORE PVC ARE NOT ACCEPTABLE MATERIALS.

SDR 35 IS NOT ACCEPTABLE FOR UNDER BUILDING USE.

33. WASTE, SOIL, DRAIN AND VENT PIPING THE DRAINS, SOIL WASTE AND VENT PIPE AND FITTINGS INCLUDING EXTENSIONS TO SEWERS SHALL BE OF THE SIZES INDICATED ON THE DRAWINGS. PIPE AND FITTINGS TO BE, CYLINDRICAL AND FREE FROM CRACKS OR OTHER DEFECTS.

ALL TRENCHES TO BE DUG WITH GRADUAL FALL, THE PIPING TO BE STRAIGHT AND FREE FROM ANY SAGS.

THE ARRANGEMENT OF THE SYSTEM SHALL BE AS SHOWN ON THE DRAWINGS STACKS SHALL BE FIRMLY SECURED IN POSITION WITH WROUGHT IRON CLAMPS AT EACH FLOOR

ALL CHANGES IN DIRECTION OF SOIL OR WASTE PIPE SHALL BE MADE BY MEANS OF "Y" BRANCHES AND 1/8 BENDS. NINETY DEGREE SHORT TURN FITTINGS WILL NOT BE PERMITTED EXCEPT TO INDIVIDUAL FIXTURE CONNECTIONS OR WHERE THE FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.

ALL TRAP SCREWS MUST BE OF FULL SIZE OF PIPE UP TO 4" AND 4" FOR ALL OVER THIS SIZE. CONNECTIONS BETWEEN OUTLETS OF FIXTURES AND SOIL OR WASTE POSSIBLE. ALL HORIZONTAL SOIL WASTE AND VENT PIPE SHALL BE GRADED TOWARD OUTLETS AND PIPE NOT BURIED SHALL BE INSTALLED ABOVE THE CEILING OR CLOSE AS POSSIBLE TO THE CONSTRUCTION ABOVE WHERE THERE IS

THE STACKS SHALL BE EXTENDED THROUGH ROOF OF BUILDING TO POINTS NOT LESS THAT 12" ABOVE ROOF. EXTENSIONS THROUGH ROOF SHALL BE MADE WATER- TIGHT BY MEANS OF A LEAD FLASHING OF FOUR POINTS SHEET LEAD SPREAD OVER A DISTANCE OF NOT LESS THAN TWELVE INCHES (12") AROUND PIPE. THIMBLE TO BE SOLDERED TO BASE AND EXTENDED OVER AND TURNED DOWN INTO END OF PIPE IN AN APPROVED MANNER

ALL CLEANOUTS IN FLOORS TO BE JOSAM #8360 OR EQUAL. ADJUSTABLE CLEANOUT WITH BODY TO MATCH THE PIPING MATERIAL, CAST BRASS SCORIATED COVER WITH LETTERS C.O. CAST IN TOP AND CONCEALED BRASS PLUG.

CLEANOUTS SHALL BE INSTALLED IN BASE OF EACH STACK. CONCEALED CLEANOUTS SHALL HAVE JOSAM #8600 OR EQUAL. CAST BRASS CHROMIUM PLATED FLAT ACCESS COVER PLATES.

ALL JOINTS OF CAST IRON PIPE SHALL BE MADE WITH MANUFACTURERS RECOMMENDED JOINING MATERIAL. AT THE CONTRACTOR'S OPTION HE MAY USE NO-HUB PIPE, FITTINGS, COUPLING AND GASKETS IN LIEU OF CAULKED JOINTS IF APPROVED BY THE LOCAL CODES AND ORDINANCES.

IF APPROVED BY THE LOCAL CODES, SCHEDULE 40 PVC PIPE WITH DWV FITTINGS MAY BE USED FOR THE WASTE AND VENT SYSTEM. PVC PIPE AND FITTINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL CODES. ENCASEMENT OF PVC PIPES WITHIN RATED SHAFTS SHALL BE THE COST OF THIS CONTRACTOR.

SDR 35 IS NOT ACCEPTABLE FOR UNDER BUILDING USE.

34. VENT FLASHING

EACH VENT FLASHING SHALL BE MADE WATER-TIGHT WITH THE ROOF BY PROPER WATER PROOF FLASHING.

35. WASTE, VENT AND WATER CONNECTIONS THE MINIMUM SIZE OF WASTE, VENT, AND WATER CONNECTION TO THE INDIVIDUAL FIXTURES SHALL BE AS SHOWN ON DRAWINGS.

WHERE FIXTURES ARE GROUPED PIPES SHALL BE INCREASED IN PROPORTION: IN ALL CASES THE SIZE ARRANGEMENTS AND CONNECTIONS OF WATER AND VENT PIPING SHALL NOT BE LESS THAN SIZE OF OPENINGS SPECIFIED FOR FIXTURES AND APPEARING IN FIXTURE LIST. NO WATER PIPE LESS THAN 1/2" SHALL BE

36. PLUMBING FIXTURES AND TRIM

UNIT APPROVED BY THE ENGINEER.

OF THE WATER CLOSET.

UL 723 NOT EXCEEDING:

FLAME SPREAD 25

SMOKE DEVELOPED 50

INSULATION ON ALL COLD SURFACES WHERE VAPOR BARRIER JACKETS ARE

37. INSULATION

USED, WILL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL INCLUDING ALL FITTINGS AND VALVES. ALL INSULATION TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S. FITTINGS SHALL BE FINISHED WITH 1/4" COAT OF INSULATING CEMENT AND CANVAS. INSULATION SCHEDULE: DOMESTIC COLD WATER - 1/2" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50) DOMESTIC HOT WATER - 1" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE **DEVELOPED 50)** DOMESTIC HOT WATER RETURN- 1" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50) EXPOSED STORM WASTE AND SANITARY WASTE - 1/2" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50) EACH JOINT SHALL BE CLEANED AS IT IS LAID AND ALL BELLS SHALL BE CLEANED ALL MATERIALS USED SHALL COMPLY WITH SECTIONS 1712 AND 1713 OF THE UBC. 38. NATURAL GAS PIPING SYSTEM ALL PIPING FROM GAS METER TO GAS-FIRED EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ALL GAS PIPING TO BE IN ACCORDANCE WITH LOCAL CODES, NFPA-54, IFGC AND UPC ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-54, LOCAL CODES, AND REGULATIONS. ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK OR GALVANIZED STEEL WITH BLACK OR GALVANIZED WITH MALLEABLE SCREWED FITTINGS. USE TEFLON TAPE ON ALL THREADED JOINTS. FITTINGS LARGER THAN TWO INCHES (2") SHALL BE WELDED. PROVIDE UNIONS AND GAS SHUT-OFF VALVES AT EACH PIECE OF GAS FIRED EQUIPMENT OR APPLIANCE. ANY GAS PIPING CONCEALED IN CHASES AND/OR INACCESSIBLE CEILING IS TO BE WELDED WITH WELDED FITTINGS. FLEXIBLE CSST PIPING MATERIAL IS AN ACEPTABLE ALTERNATE ONLY IF ALLOWED BY LOCAL AHJ AND RESIZED PER MANUFACTURERS SIZING GUIDELINES. ALL FLEXIBLE GAS PIPING SYSTEM COMPONENTS MUST BE: A.1 CSA INTERNATIONAL CERTIFIED CORRUGATED STAINLESS STEEL TUBING (CSST) FLEXIBLE GAS PIPING WITH MECHANICAL ATTACHMENT AUTOFLARE® FITTINGS THAT CONFORM TO THE LATEST ANSI STANDARDS FOR SAFE PERFORMANCE ANSI LC-1 /CSA 6.26. A.2 UNDERWRITERS LABORATORIES CLASSIFICATION LISTED FOR THRU PENETRATION FIRE STOP REQUIREMENTS RATINGS TO INCLUDE ONE, TWO, THREE AND FOUR HOUR TESTS. SANITARY CLEANOUTS ARE TO BE PROVIDED AT EVERY TURN GREATER THAN 45°, A.3 LISTED WITH FM (FACTORY MUTUAL) REQUIREMENTS FOR FLAMMABLE GAS AT INTERVALS OF NO GREATER THAN 50', AT ANY STACK ROUTING BELOW GRADE. PIPING SYSTEMS. FOR SEISMIC RESISTANCE. A.4 TUBING SHALL BE TESTED AND LISTED IN ACCORDANCE WITH ICC LC-1024. FOR RESISTANCE TO ARCING FROM TRANSIENT ENERGY. 39. STORM PIPING SYSTEM ALL STORM PIPING SHALL BE OF THE FOLLOWING MATERIALS A. HUB-AND-SPIGOT, CAST-IRON PIPE AND FITTINGS: ASTM A 74, SERVICE CLASS. 1. GASKETS: ASTM C 564, RUBBER. B. HUBLESS CAST-IRON PIPE AND FITTINGS: ASTM A 888 OR CISPI 301. SHIELDED COUPLINGS: ASTM C 1277 ASSEMBLY OF METAL SHIELD OR HOUSING, CORROSION-RESISTANT FASTENERS, AND RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP a. STANDARD, SHIELDED, STAINLESS-STEEL COUPLINGS: CISPI 310. WITH STAINLESS-STEEL CORRUGATED SHIELD; STAINLESS-STEEL BANDS AND TIGHTENING DEVICES; AND ASTM C 564, RUBBER SLEEVE b. HEAVY-DUTY, SHIELDED, STAINLESS-STEEL COUPLINGS: WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE. SOLID-WALL PVC PIPE: ASTM D 2665, SOLID-WALL DRAIN, WASTE, AND VENT 1. PVC SOCKET FITTINGS: ASTM D 2665, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS SOLVENT CEMENT AND ADHESIVE PRIMER: a. USE PVC SOLVENT CEMENT THAT HAS A VOC CONTENT OF 510 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24 b. USE ADHESIVE PRIMER THAT HAS A VOC CONTENT OF 550 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24). INSTALL STORM DRAINAGE PIPING AT THE FOLLOWING MINIMUM SLOPES, UNLESS OTHERWISE INDICATED BUILDING STORM DRAIN: 1 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 3 AND SMALLER; 1 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 4 AND LARGER. HORIZONTAL STORM-DRAINAGE PIPING: 2 PERCENT DOWNWARD IN DIRECTION OF FLOW. A. SLEEVES ARE NOT REQUIRED FOR CAST-IRON SOIL PIPING PASSING THROUGH CONCRETE SLABS-ON-GRADE IF SLAB IS WITHOUT MEMBRANE WATERPROOFING INSTALL PVC STORM DRAINAGE PIPING ACCORDING TO ASTM D 2665. INSTALL UNDERGROUND PVC STORM DRAINAGE PIPING ACCORDING TO ASTM D 2321. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION. STORM PIPING, COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING THE MINIMUM WORKING PRESSURE OF 10-FOOT HEAD OF WATER. UNLESS OTHERWISE INDICATED. PLUMBING FIXTURES SHALL BE FURNISHED AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER WITH PROPER CONNECTIONS TO SUPPLY AND DRAINAGE PIPING. ALL FIXTURES SHALL BE FREE OF FLAWS AND DEFECTS OF ANY SORT IN MATERIAL AND WORKMANSHIP AND SHALL OPERATE PERFECTLY WHEN INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DIRECTION. MATERIALS: FIXTURES SHALL BE THE STANDARD PRODUCT OF ONE OF THE MANUFACTURER'S LISTED IN THE PLUMBING FIXTURE SCHEDULE, OR ANY EQUAL INSTALLATION: THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE PLUMBING FIXTURES AND ACCESSORIES DURING CONSTRUCTION. HE SHALL REPLACE AT HIS EXPENSE ANY MATERIAL THAT IS MARRED, SCRATCHED, DEFACED AND/OR BROKEN. FIXTURES SHALL BE COVERED WITH BUILDING PAPER CONTRACTOR SHALL COORDINATE EXACT AND PROVIDE ROUGH-IN LOCATIONS WITH FIELD CONDITIONS AND PLANS PRIOR TO ANY WORK. CONTRACTOR SHALL CONNECT ALL FIXTURES TO THE PLUMBING SYSTEM. ALL FIXTURES TO BE INSTALLED TO DIMENSIONS WITH CHROME-PLATED SUPPLIES WITH STOPS. ALL FIXTURES INSTALLED TO DIMENSIONS SHOWN ON THE DRAWINGS. ALL WATER CLOSETS SHALL HAVE CAULKING BETWEEN THE FLOOR AND UNDERSIDE PLUMBING EQUIPMENT: (REFER TO SCHEDULE ON THE DRAWINGS) ADHESIVE USED TO ADHERE THE FACING OR JACKET TO THE INSULATION) FIRE ALL ACCESSORIES SUCH AS ADHESIVES, MASTICS, CEMENTS, TAPES AND CLOTH INSULATION SHALL BE APPLIED ON CLEAN, DRY SURFACES AND AFTER INSPECTION AND RELEASE FOR INSULATION APPLICATION. ALL INSULATION SHALL BE CONTINUOUS THROUGH WALL AND CEILING OPENINGS AND SLEEVES.

TRILEAF architecture | engineering 1515 DES PERES ROAD, STE 200 SAINT LOUIS, MISSOURI 63131 PHONE | 314-997-6111 FAX | 314-997-8066 CONSULTANT Engineering Inc. 6 Merus Court T 636.349.1600 t. Louis, MO 63026 F 636.349.1730 CERTIFICATE OF AUTHORITY NO. 001498 SEAL 01.14.22 ЕП 82 ы С Ο > 0 REVISIONS ISSUE DATE: 01.14.22 DRAWN BY: DRC CHECKED BY: PROJECT NUMBER: 689411 PLUMBING SPECIFICATIONS

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