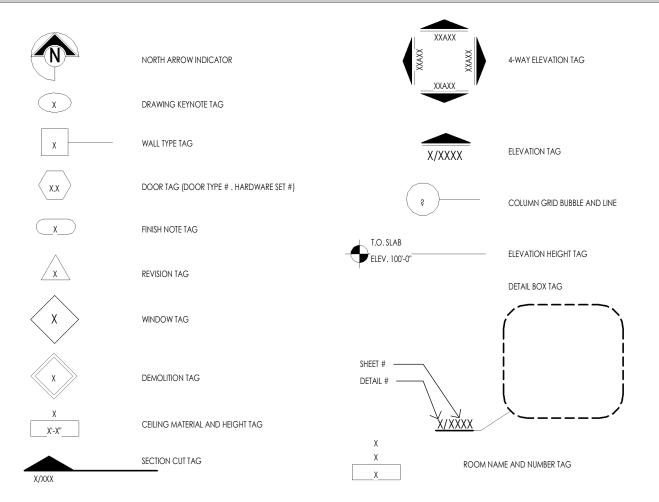
# GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL LAWS, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICT BETWEEN REQUIREMENTS, THE MOST RESTRICTIVE SHALL
- BIDDING CONTRACTORS SHALL VISIT THE JOBSITE AND VERIFY ALL FIELD CONDITIONS AS NECESSARY TO COMPLETE THE WORK AND COMPARE TO APPLICABLE CONSTRUCTION DOCUMENTS. REPORT DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS TO ARCHITECT PRIOR TO SUBMITTING BID. FAILURE TO REPORT DISCREPANCIES DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE FINISHED PRODUCT TO THE INTENT OF THE CONSTRUCTION DOCUMENTS AND SHALL NOT RESULT IN ADDITIONAL TIME OR COMPENSATION OVER AND ABOVE THE ESTABLISHED CONTRACT AMOUNTS.
- THE CONTRACTOR SHALL ADHERE TO THE CONSTRUCTION DOCUMENTS. SHOULD ANY ERROR OR INCONSISTENCY APPEAR REGARDING THE MEANING OR INTENT OF THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE ARCHITECT WHO WILL MAKE ANY NECESSARY CLARIFICATION, OR REVISIONS AS REQUIRED.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION AND DEVELOPMENT RELATED FEES, INCLUDING, BUT NOT LIMITED TO: CONSTRUCTION PERMIT FEES, HEALTH DEPARTMENT FEES, ETC. THE SELECTED QUALIFIED BIDDER WILL BE REQUIRED TO PROVIDE A COMPLETE LINE-ITEM LIST OF ALL FEES INCLUDED IN BID BASED ON APPROPRIATE SCHEDULES.
- CONTRACTOR AND HIS SUBCONTRACTORS AND AGENTS SHALL HOLD ALL APPLICABLE AND REQUIRED LICENSES FOR THE JURISDICTION WHERE THE WORK WILL BE PERFORMED
- CONTRACTOR SHALL AQUAINT HIMSELF WITH ALL LANDLORD/DEVELOPER REQUIREMENTS AND SHALL COMPLY FULLY WITH SUCH.
- TO ENSURE COORDINATION BETWEEN DISCIPLINES, CONTRACTOR SHALL SUPPLY EACH SUBCONTRACTOR OR AGENT WITH A FULL SET OF CONSTRUCTION DOCUMENTS FOR THEIR USE.
- MAINTAIN SAFE EXITING AND APPROPRIATE FIRE PREVENTION PROCEDURES AT ALL TIMES DURING THE CONSTRUCTION **PROCESS**
- ALL WORK LISTED, SHOWN OR IMPLIED IN THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR EXCEPT WHERE OTHERWISE NOTED. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS AND VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR SHALL PROTECT THE EXISTING CONSTRUCTION AND REPAIR ANY DAMAGE OCCURRING AS A RESULT OF THEIR OPERATIONS AT NO COST TO THE TENANT OR LANDLORD. CONTRACTOR SHALL ALSO ENSURE THAT THEIR OPERATIONS DO NOT INTERFERE WITH THE OPERATION OF THE REMAINDER OF THE DEVELOPMENT/MALL. BARRIERS TO NOISE, DUST AND SECURITY BETWEEN CONSTRUCTION AREAS AND PUBLIC AREAS SHALL BE ERECTED, MAINTAINED AND REMOVED PER THE DEVELOPMENT CRITERIA BY THE CONTRACTOR.
- 11. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF WORK, MATERIALS, FIXTURES, ETC. FROM LOSS, DAMAGE, FIRE, THEFT, ETC.
- CONTRACTOR SHALL VERIFY AND PROVIDE ALL UTILITY CONNECTIONS (PLUMBING, ELECTRICAL, GAS, ETC. IN THE FORM OF SUPPLY AND DRAIN PIPES, CONDUIT AND PULLING WIRES, ETC.) RELATED TO EQUIPMENT
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FITTING NECESSARY TO ACHIEVE THE INTENT OF
- THE CONSTRUCTION DOCUMENTS 14. NEW WORK AT EXISTING CONDITIONS SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE
- 15. CONTRACTOR SHALL NEVER SCALE DRAWINGS. LOCATIONS FOR ALL PARTITIONS, WALLS, CEILINGS, ETC. WILL BE DETERMINED BY DIMENSIONS ON THE DRAWINGS. ANY AREA OF THE PLANS MISSING REQUIRED DIMENSIONS MUST BE REPORTED TO THE ARCHITECT IMMEDIATELY.
- DIMENSIONS ARE TO FACE OF FINISHED MATERIAL UNLESS NOTED OTHERWISE.
- 17. CONTRACTOR SHALL COORDINATE THE DELIVERY AND STORAGE OF EQUIPMENT WITH EQUIPMENT SUPPLIER AND TAKE MEASURES TO ENSURE THE PROTECTION OF EQUIPMENT FROM DAMAGE DURING THE CONSTRUCTION PHASE PRIOR TO AND AFTER EQUIPMENT INSTALLATION.
- 18. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES IN THE FIELD AND PROVIDE ADDITIONAL UTILITY SERVICE AS REQUIRED TO MEET THE SCOPE AND INTENT OF THE WORK
- VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION START. ANY AND ALL LOSSES OF BUSINESS TO THE LANDLORD, DEVELOPER OR OTHER PARTY RESULTING FROM DAMAGE CAUSED BY CONTRACTOR OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED IMMEDIATELY AT THE SOLE EXPENSE OF THE CONTRACTOR
- CONTRACTOR SHALL PROVIDE DRAFT/FIRE STOPS, AS REQ'D BY GOVERNING CODES AND JURISDICTIONS. NEW AND EXISTING PENETRATIONS IN FIRE-RATED PARTITIONS OR DRAFT STOPS SHALL BE PROTECTED BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY.
- 21. PROVIDE FIRE EXTINGUISHERS PER APPLICABLE CODES. VERIFY FINAL LOCATION WITH A.H.J.
- CONTRACTOR SHALL COORDINATE ALL WORK THAT AFFECTS THE ROOF WITH THE LANDLORD AND, IF REQUIRED BY THE LANDLORD, HIRE THE SHELL ROOFING SUBCONTRACTOR TO PERFORM ALL WORK OF PENETRATING THE ROOF FOR ANY AND ALL ITEMS ADDED ON THE ROOF AND PATCHING/SEALING OF SUCH PENETRATIONS DURING AND AFTER EQUIPMENT
- 23. CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE IS PROVIDED AS REQUIRED TO ENSURE EASE OF
- 24. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONTRACTORS AND VENDORS FURNISHING LABOR. MATERIALS, ETC. ON THE PROJECT TO ENSURE THE WORK AS A WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT
- 25. CONTRACTOR SHALL COORDINATE THE REQUIREMENTS OF ANY AND ALL DRAWINGS INCLUDING ARCHITECTURAL MECHANICAL, ELECTRICAL AND PLUMBING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO EXECUTION OF WORK
- 26. CONTRACTOR TO VERIFY THAT EQUIPMENT HAS APPROPRIATE CLEARANCES DURING INSTALLATION INCLUDING MAINTENANCE CLEARANCES; VERIFY THOSE WHICH INVOLVE CONFLICTING UTILITIES.
- PROVIDE AND INSTALL ALL NECESSARY IN-WALL FRAMING REQUIRED TO CARRY SHELF, HANGING, AND VALANCE
- LOADS, RAILINGS, ETC. AS PER PLANS.. 28. ALL JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE AND ENERGY CODE
- ALL WOOD IN CONTACT WITH CONCRETE MASONRY SHALL BE PRESSURE TREATED, MOISTURE RESISTANT WOOD.
- 30. ALL SURFACES WHICH ARE INDICATED TO BE FINISHED OR PAINTED SHALL BE PREPARED, SANDED, TREATED, AND PRIMED IN STRICT ACCORDANCE WITH COMMERCIAL QUALITY STANDARDS, AND IN STRICT ACCORDANCE WITH FINISH MATERIAL MANUFACTURER'S INSTRUCTIONS.
- ALL FINISH SURFACES PENETRATED SUCH AS CEILING TILES AND MILLWORK COUNTERS FOR ANY REASON MUST HAVE AN ASSOCIATED GROMMET APPROVED FOR THAT USE.
- 32. APPLICATION OF MATERIAL OR EQUIPMENT INSTALLED BY OTHERS CONSTITUTES ACCEPTANCE OF THAT WORK, AND ASSUMPTION OF THE RESPONSIBILITY FOR SATISFACTORY INSTALLATION AND PERFORMANCE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STRUCTURE FOR INTERIOR PARTITIONS, SOFFITS, CEILINGS PLATFORMS, ETC. WHETHER SHOWN ON THE DRAWINGS OR NOT.
- 34. PROVIDE SILICONE SEALANT AT ALL JOINTS AND INTERFACES OF ALL COUNTERTOPS, EQUIPMENT, BOOTHS, WALLS, ETC.
- ALL WOOD TRIM OR OTHER PREFINISHED TRIM ITEMS SHALL BE CUT TO FIT AND RAW, EXPOSED SURFACES SHALL BE FINISHED TO MATCH ADJACENT FINISH MATERIALS
- ALL AREAS OF EXISTING LANDSCAPING DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION
- GENERAL CONTRACTOR SHALL COMPLY AND FORCE THEIR SUBCONTRACTORS/VENDORS TO COMPLY WITH THE DEVELOPMENT'S RULES AND REGULATIONS.
- 38. CONTRACTOR SHALL PROVIDE WOOD BLOCKING, BRACING AND NAILERS AS REQUIRED FOR MILLWORK, EQUIPMENT SHELVING, ETC. COORDINATE WITH TENANT
- ALL WELDING SHALL HAVE FIRE WATCH.
- 40. ANY PENETRATIONS IN INTERIOR WALLS MUST MAINTAIN THE REQUIRED FIRE RATING PER CODE.
- ANY MODIFICATIONS TO THE BUILDING FIRE ALARM SYSTEM MUST BE MADE BY THE LANDLORD'S REQUIRED ALARM CONTRACTOR.
- 42. ANY ISSUES OR REVISIONS REGARDING BUILDING FIRE PROTECTION, PLUMBING SYSTEMS (INCLUDING GREASE INTERCEPTORS / TRAPS), MECHANICAL, ELECTRICAL SERVICE, OR THE BUILDING ENVELOPE SHALL BE COMMUNICATED TO THE LANDLORD AND PROPERLY NOTIFIED.

# STANDARD DRAWING SYMBOLS



# **SUMMIT FAIR**

910 G NW BLUE PKWY LEE'S SUMMIT, MO LULULEMON TENANT INFILL

> DEFFERED SUBMITTALS: (TO BE REVIEWED AND APPROVED **UNDER SEPERATE COVER)** FIRE SPRINKLER/ALARM: MODIFIED SPRINKLER HEADS AND LINES AS REQUIRED DESIGN BUILD - DEFFERED SIGNAGE: DEFFERED

# MATERIALS LEGEND

# Sand CONCRETE WOOD BLOCKING RIGID INSULATION **EARTH**

# STANDARD ABBREVIATIONS

Furnished by Others

Floor Drain

Fire Extinguisher

FD

Acoustical Ceiling Tile

ACOUST Acoustical

FBD

Fiber Board

ADJ	Adjustable	FEC	Fire Extinguisher & Cabinet	PL	Plate
AHJ	Authority Having Jurisdiction		Furniture, Fixtures & Equipment	PLAM	Plastic Laminate
ALUM	Aluminum	FIN	Finish	PLYWD	Plywood
AMB	Air-moisture barrier	FLUOR	Fluorescent	PLUMB	Plumbing
ANC	Anchor	FLR	Floor	PNL	Panel
ANOD	Anodized	FRP	Fiberglass Reinforced Plastic	PR	Pair
ARCH	Architect(ural)	FRT	Fire Retardant Treated	PREP	Preparation
ASS'Y	Assembly	FS	Floor Sink	PREFIN	Prefinished
BD	Board	FSE	Food Service Equipment	PTD	Painted
BFG	Below Finished Grade	FT	Feet	QT	Quarry Tile
BFF	Below Finished Floor	FV		QTY	Quantity
			Field Verify		,
BLDG	Building	GALV	Gauge	RA	Return Air
BLK'G	Blocking	GALV	Galvanized Contractor	RAD	Radius
BM	Beam	GC	General Contractor	RCP	Reflected Ceiling Plan
BOT	Bottom	GL	Glass	REF	Reference
BRG	Bearing	GYP BD	Gypsum Board	RECPT	Receptacle
BS	Both Sides	HC	Hollow Core	REFL	Reflected, Reflecting
BTWN	Between	HM	Hollow Metal	REINF	Reinforced, Reinforcing
CAB	Cabinet	HT	Height	RELOC	Relocate
CJ	Control Joint	HDWD	Hardwood	req'd	Required
CL	Center Line	HR	Hour	REV	Revision, Reversed
CLG	Ceiling	HVAC	Heating, Ventilation & Air	RO	Rough Opening
CLO	Closet		Conditioning	RTU	Roof Top Unit
CLR	Clear	IN	Inch	SC	Solid Core
CMU	Concrete Masonry Unit	INSUL	Insulation, Insulate	SF	Square Foot
COL	Column	INT	Interior	SHT	Sheet
CONC	Concrete	JST	Joist	SHTH	Sheathing
CONT	Continuous	LAM	Laminated	SS	Stainless Steel
CONST	Construction, Construct	LAV	Lavatory	SCHED	Schedule
CT	Ceramic Tile	LLH	Long Leg Horizontal	SIM	Similar
DBL	Double	LLV	Long Leg Vertical	SM	Sheet Metal
DEMO	Demolition	MANUF	Manufacturer	SPEC'D	Specified
DIA	Diameter	MAX	Maximum	STD	Standard
DN	Down	MECH	Mechanical	STL	Steel
DR	Door	MEP	Mechanical, Electrical,&	STRUCT	Structural
DS	Downspout		Plumbing	SUSP	Suspended
DTL	Detail	MILL	Millwork	TBD	To be determined
DWG	Drawing	MIN	Minimum	TEMP	Tempered
EA	Each	MISC	Miscellaneous	T&B	Top and Bottom
EIFS	Exterior Insulation	MLD	Molding	TYP	Typical
LITO	& Finish System	MO	Masonry Opening	VCT	Vinyl Composition Tile
EF	Exhaust Fan	MTD	Mounted	VERT	Vertical
EJ	Expansion Joint	MTL	Metal	VWC	Vinyl Wall Covering
EL	Elevation	MUL	Mullion	UNO	Unless Noted Otherwise
ELEC	Electrical	NIC	Not In Contract	W/	With
				•	Without
ELEV	Elevator	MOM	Nominal	W/O	
EQ	Equal	NTS	Not To Scale	WC	Water Closet
EQUIP	Equipment	OC	On Center	WD	Wood
EW	Each Way	OD	Outside Diameter	WH	Water Heater
EWC	Electric Water Cooler	OFCI	Owner Furnished, Contractor	WDW	Window
EXIST	Existing	OLL	Installed	WP	Waterproofing
EXP	Expansion	OH	Opposite Hand	WSCT	Wainscot
EXT	Exterior File or Record	OPNG	Opening	WT MANA/E	Weight
LDI.	LIBOR BOOKS	( )[]]	( )O *I O O O I	10/10/1	MOIGO A Mira I alaria

Optional

# **CODE DATA**

APPLICABLE CODES: ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE,

CODE DATA .		
CODE DATA :	EDITION	YEAR
BUILDING + STRUCTURAL:	INTERNATIONAL BUILDING CODE	2018
PLUMBING:	INTERNATIONAL PLUMBING CODE	2018
MECHANICAL:	INTERNATIONAL MECHANICAL CODE	2018
FUEL:	INTERNATIONAL FUEL GAS CODE	2018
ELECTRICAL:	NATIONAL ELECTRICAL CODE	2017
FIRE/LIFE SAFETY:	INTERNATIONAL FIRE CODE	2018
ACCESSIBILITY CODE:	ICC ANSI A117.1	2009

**BUILDING DATA:** M (MERCANTILE) Powder Actuated Fasteners OCCUPANCY GROUP

SPRINKLED:

APPLICABLE CODES

Open to Structure

Welded Wire Fabric

Particle Board

PAF

PBD

			OCCUPANCY LOAD		
Number	Name	Area	OCCUPANCY CLASSIFICATION	AREA PER OCCUPANT	Occupant Load
101	SALES	2690 SF	MERCANTILE: BASEMENT AND GRADE FLOOR AREAS	60 SF	45
102	STORAGE	609 SF	MERCANTILE: STORAGE, STOCK, SHIPPING AREAS	300 SF	3
103	MANAGER'S OFFICE	54 SF	BUSINESS AREAS	150 SF	1
104	CORRIDOR	206 SF	(none)		
Occupa	int Load	•			49

OCCUPANCY LOAD

		REQUIRED	PROVIDED
NUMBER OF EXITS		2	2
EXIT WIDTH		7.4"	72"
MAX PATH OF TRAVEL			68'
PLUMBING DATA:		REQUIRED	PROVIDED
WATER CLOSETS			
TOTAL OCCUPANT: 49 / 2 = 25			
MALE = 1/500		1	1
FEMALE = 1/500		1	1
LAVATORIES (MEN AND WOMEN)	•	1	2 (EACH)
MOP/SERVICE SINKS		1	1
DRINKING FOUNTAINS		1	1
* SEPARATE FACILITIES NOT REQU	JIRED PER	IBC 2902.2 BI	JT PROVIDED

BUT ARE NOT LIMITED TO THE FOLLOWING:

EDITION	YEAR
INTERNATIONAL BUILDING CODE	2018
INTERNATIONAL PLUMBING CODE	2018
INTERNATIONAL MECHANICAL CODE	2018
INTERNATIONAL FUEL GAS CODE	2018
NATIONAL ELECTRICAL CODE	2017
INTERNATIONAL FIRE CODE	2018
ICC ANSI A117.1	2009
	INTERNATIONAL BUILDING CODE INTERNATIONAL PLUMBING CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL FUEL GAS CODE NATIONAL ELECTRICAL CODE INTERNATIONAL FIRE CODE

CONSTRUCTION TYPE:

# OCCUPANCY AND EXITING DATA:

Number	Name	Area	OCCUPANCY CLASSIFICATION	AREA PER OCCUPANT	Occupant Load
01	SALES	2690 SF	MERCANTILE: BASEMENT AND GRADE FLOOR AREAS	60 SF	45
02	STORAGE	609 SF	MERCANTILE: STORAGE, STOCK, SHIPPING AREAS	300 SF	3
03	MANAGER'S OFFICE	54 SF	BUSINESS AREAS	150 SF	1
04	CORRIDOR	206 SF	(none)		
Оссира	nt Load	_		•	49

SHEET NUMBERING SYSTEM

NOTE: DETAIL NUM		BOXES:		DX, PLEASE SEE SAM
(20)	(16)	12	8	4
(19)	(15)	(11)	7	3
(18)	(14)	(10)	6	2
(17)	(13)	9	5	1)
EXAMPLE DETAIL #	Λ/ΔΥΥΥ			·

# PLES ABOVE FOR DETERMINING DETAIL NUMBERS

KMININO DETAIL NOMB	2.10		
(16)	(12)	8	4
(15)	(11)	7	3
(14)	(10)	6	2
(13)	9	5	1
EXAMPLE DETAIL # 9/A	xxx		

# DRAWING INDEX

		GENERAL		MEP
	G000	COVER SHEET	ME101	MECHANICAL AND ELECTRICAL - SYMBOLS AND
	G003	GENERAL ACCESSIBILITY		ABBREVIATIONS
5	G004	INTERIOR ACCESSIBILITY	ME202	MECHANICAL AND ELECTRICAL - ROOF PLAN
F	G015	LIFE SAFETY PLAN	ME301	MECHANICAL AND ELECTRICAL - SCHEDULES AND
	G020	WALL TYPES		DETAILS
			ME401	MECHANICAL AND ELECTRICAL - SPECIFICATIONS
			ME402	MECHANICAL AND ELECTRICAL - SPECIFICATIONS
		DEMO	DM101	HVAC PLAN - DEMOLITION
		DEMO	M101	HVAC PLAN - NEW WORK
	D100	DEMO PLAN		
	D101	DEMO RCP	DP101	PLUMBING PLAN - DEMOLITION
		ARCHITECTURE	P101	PLUMBING PLAN - NEW WORK
	A100	FLOOR PLAN	DE101	LIGHTING PLAN - DEMOLITION
	A150	REFLECTED CEILING PLAN	DE201	POWER PLAN - DEMOLITION
	A250	INTERIOR ELEVATIONS		
	SP001	SPECIFICATIONS	E101	LIGHTING PLAN - NEW WORK
	SP002	SPECIFICATIONS	E201	POWER PLAN - NEW WORK
	SF003	SPECIFICATIONS	E301	ELECTRICAL - SCHEDULES AND DETAILS
	SP104	SPECIFICATIONS	E302	ELECTRICAL - SCHEDULES AND DETAILS
	SP105	SPECIFICATIONS		

# PROJECT CONTACTS

RED DEVELOPMENT ONE EAST WASHINGTON STREET, SUIT PHOENIX, ARIZONA 85004 PH: 480-556-7732 POC: DUSTIN CLEVELAND

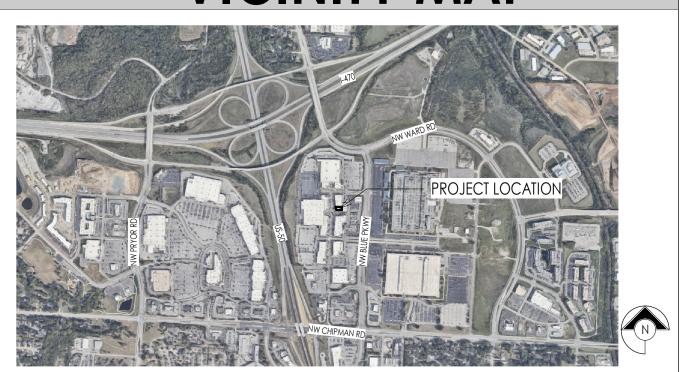
OWNER

KLOVER ARCHITECTS, INC. 8813 PENROSE LN, STE 400 LENEXA, KS 66219 PH: 913-649-8181

SMITH & BOUCHER, INC. 25618 W 103RD ST. OLATHE, KS 66061 PH: 913-344-0047 POC: CHRIS ALBRIGHT

# **VICINITY MAP**

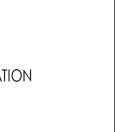
POC: ERIC HESSLER





# PROJECT AREA MAP





DATE SIGNED: 6/16/2023 9:45:31 AM

Date Signed

**Aklover**architect

THIS DRAWING has been prepared by the Architect, or prepared

under his direct supervision as an instrument of service and is

intended for use only on this project. All Drawings, Specifications,

ideas and designs, including the overall layout, form,

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THE ARCHITECT DISCLAIMS responsibility for the existing building

structure, site conditions, existing construction elements, or any documents, drawings or other instruments used for any part of th

Project which do not bear the Architect's seal. The Architect's

services are undertaken only in the interest of the Project Owner. No

an integrated set of Construction Documents. General and

Supplementary Conditions of the Contract, General Requirement

Failure to review and integrate the design intent of the whole of the

Construction Documents does not relieve the Contractor from

providing a complete Project, COMPLY WITH all laws, codes ordinances and regulations with authorities having jurisdiction and

with requirements of the Landlord, if applicable. Do not start Work

until all permits and required approvals are obtained. VERIFY ACTUAL

CONDITIONS and dimensions prior to construction. Commencemen

of work constitutes verification and acceptance of all existing conditions. Application of a material or equipment item to Work installed by others constitutes acceptance of that Work, and

assumption of responsibility for satisfactory installation, DIMENSIONS

SHOWN are to finish face of a material unless otherwise indicated.

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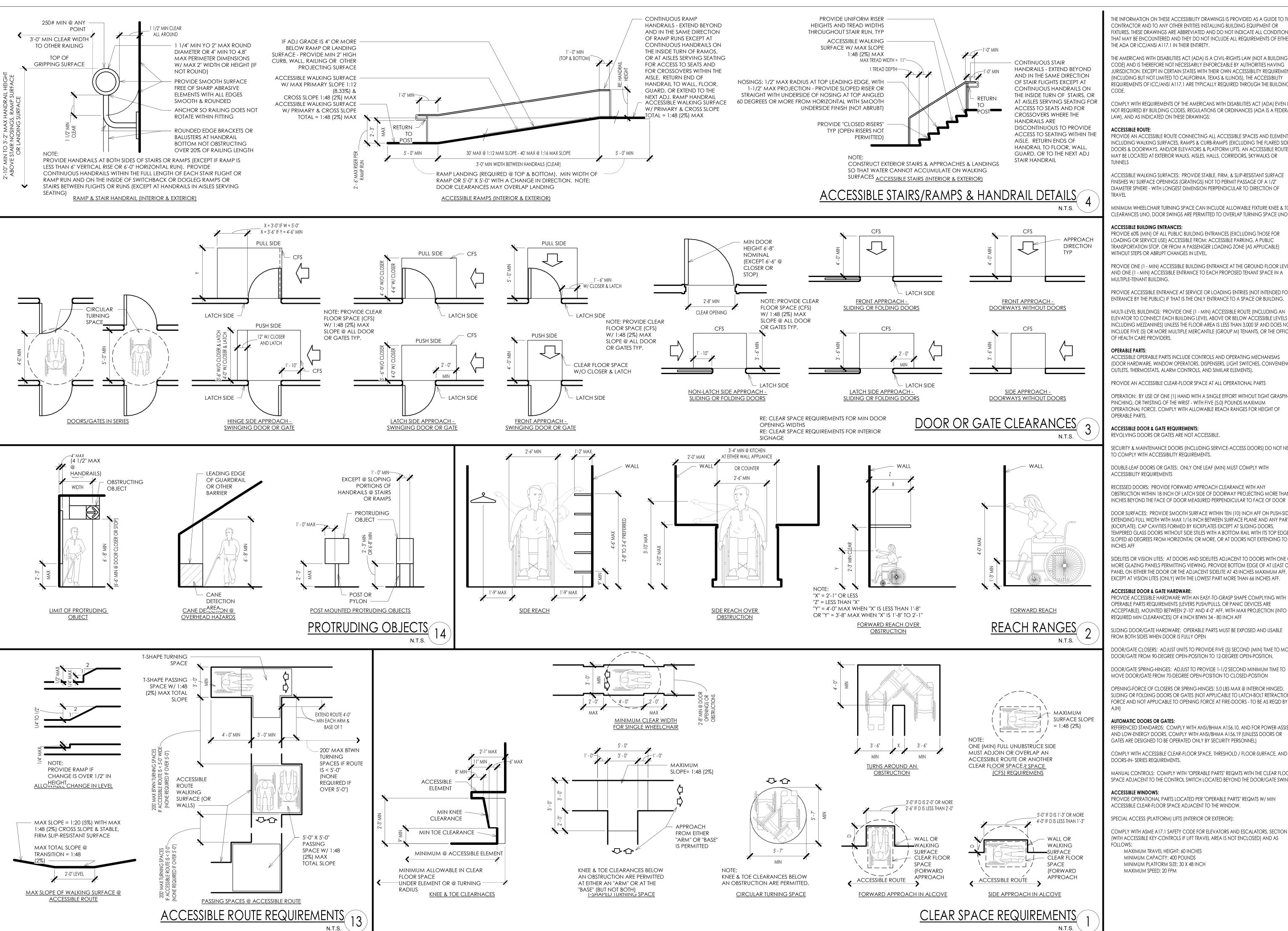
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**project** number

**drawing** issuance

drawing revisions

ISSUED FOR PERMIT



THE INFORMATION ON THESE ACCESSIBILITY DRAWINGS IS PROVIDED AS A GUIDE TO THE CONTRACTOR AND TO ANY OTHER ENTITIES INSTALLING BUILDING EQUIPMENT OR FIXTURES. THESE DRAWINGS ARE ABBREVIATED AND DO NOT INDICATE ALL CONDITIONS THAT MAY BE ENCOUNTERED AND THEY DO NOT INCLUDE ALL REQUIREMENTS OF EITHER THE ADA OR ICC/ANSI A117.1 IN THEIR ENTIRETY.

THE AMERICANS WITH DISABILITIES ACT (ADA) IS A CIVIL-RIGHTS LAW (NOT A BUILDING CODE) AND IS THEREFORE NOT NECESSARILY ENFORCEABLE BY AUTHORITIES HAVING JURISDICTION. EXCEPT IN CERTAIN STATES WITH THEIR OWN ACCESSIBILITY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO CALIFORNIA, TEXAS & ILLINOIS), THE ACCESSIBILITY REQUIREMENTS OF ICC/ANSI A117.1 ARE TYPICALLY REQUIRED THROUGH THE BUILDING

COMPLY WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) EVEN IF NOT REQUIRED BY BUILDING CODES, REGULATIONS OR ORDINANCES (ADA IS A FEDERAL LAW), AND AS INDICATED ON THESE DRAWINGS:

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services are undertaken only in the interest of the Project Owner. No

entity. RELATED DOCUMENTS: This Drawing is a single component of

an integrated set of Construction Documents. General and

Supplementary Conditions of the Contract, General Requirement

pecifications and other Drawings may affect the Work described

Failure to review and integrate the design intent of the whole of the

rdinances and regulations with authorities having jurisdiction and

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installed by others constitutes acceptance of that Work, and

assumption of responsibility for satisfactory installation. DIMENSIONS

SHOWN are to finish face of a material unless otherwise indicated. CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless

otherwise directed.

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**project** title

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**project** number

**drawing** issuance

Construction Documents does not relieve the Contractor from providing a complete Project. COMPLY WITH all laws, codes,

obligation is assumed by the Architect for the benefit of any other

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portrayed, constitute the original, unpublished Work of the

PROVIDE AN ACCESSIBLE ROUTE CONNECTING ALL ACCESSIBLE SPACES AND ELEMENTS, INCLUDING WALKING SURFACES, RAMPS & CURB-RAMPS (EXCLUDING THE FLARED SIDES) DOORS & DOORWAYS, AND/OR ELEVATORS & PLATFORM LIFTS. AN ACCESSIBLE ROUTE MAY BE LOCATED AT EXTERIOR WALKS, AISLES, HALLS, CORRIDORS, SKYWALKS OR

ACCESSIBLE WALKING SURFACES: PROVIDE STABLE, FIRM, & SLIP-RESISTANT SURFACE FINISHES W/ SURFACE OPENINGS (GRATINGS) NOT TO PERMIT PASSAGE OF A 1/2" DIAMETER SPHERE - WITH LONGEST DIMENSION PERPENDICULAR TO DIRECTION OF

MINIMUM WHEELCHAIR TURNING SPACE CAN INCLUDE ALLOWABLE FIXTURE KNEE & TOE CLEARANCES UNO. DOOR SWINGS ARE PERMITTED TO OVERLAP TURNING SPACE UNO.

#### ACCESSIBLE BUILDING ENTRANCES:

PROVIDE 60% (MIN) OF ALL PUBLIC BUILDING ENTRANCES (EXCLUDING THOSE FOR LOADING OR SERVICE USE) ACCESSIBLE FROM: ACCESSIBLE PARKING, A PUBLIC TRANSPORTATION STOP, OR FROM A PASSENGER LOADING ZONE (AS APPLICABLE) WITHOUT STEPS OR ABRUPT CHANGES IN LEVEL.

PROVIDE ONE (1 - MIN) ACCESSIBLE BUILDING ENTRANCE AT THE GROUND FLOOR LEVEL AND ONE (1 - MIN) ACCESSIBLE ENTRANCE TO EACH PROPOSED TENANT SPACE IN A MULTIPLE-TENANT BUILDING.

PROVIDE ACCESSIBLE ENTRANCE AT SERVICE OR LOADING ENTRIES (NOT INTENDED FOR ENTRANCE BY THE PUBLIC) IF THAT IS THE ONLY ENTRANCE TO A SPACE OR BUILDING.

MULTI-LEVEL BUILDINGS: PROVIDE ONE (1 - MIN) ACCESSIBLE ROUTE (INCLUDING AN ELEVATOR TO CONNECT EACH BUILDING LEVEL ABOVE OR BELOW ACCESSIBLE LEVELS INCLUDING MEZZANINES) UNLESS THE FLOOR-AREA IS LESS THAN 3,000 SF AND DOES NOT INCLUDE FIVE (5) OR MORE MULTIPLE MERCANTILE (GROUP M) TENANTS, OR THE OFFICES OF HEALTH CARE PROVIDERS.

ACCESSIBLE OPERABLE PARTS INCLUDE CONTROLS AND OPERATING MECHANISMS (DOOR HARDWARE, WINDOW OPERATORS, DISPENSERS, LIGHT SWITCHES, CONVENIENCE OUTLETS, THERMOSTATS, ALARM CONTROLS, AND SIMILAR ELEMENTS).

PROVIDE AN ACCESSIBLE CLEAR-FLOOR SPACE AT ALL OPERATIONAL PARTS

OPERATION: BY USE OF ONE (1) HAND WITH A SINGLE EFFORT WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST - WITH FIVE (5.0) POUNDS MAXIMUM OPERATIONAL FORCE. COMPLY WITH ALLOWABLE REACH RANGES FOR HEIGHT OF

### ACCESSIBLE DOOR & GATE REQUIREMENTS:

REVOLVING DOORS OR GATES ARE NOT ACCESSIBLE.

SECURITY & MAINTENANCE DOORS (INCLUDING SERVICE-ACCESS DOORS) DO NOT NEED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.

DOUBLE-LEAF DOORS OR GATES: ONLY ONE LEAF (MIN) MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS

OBSTRUCTION WITHIN 18 INCH OF LATCH SIDE OF DOORWAY PROJECTING MORE THAN 8

INCHES BEYOND THE FACE OF DOOR MEASURED PERPENDICULAR TO FACE OF DOOR DOOR SURFACES: PROVIDE SMOOTH SURFACE WITHIN TEN (10) INCH AFF ON PUSH-SIDE EXTENDING FULL WIDTH WITH MAX 1/16 INCH BETWEEN SURFACE PLANE AND ANY PARTS

(KICKPLATE). CAP CAVITIES FORMED BY KICKPLATES EXCEPT AT SLIDING DOORS, tempered glass doors without side stiles with a bottom rail with its top edge SLOPED 60 DEGREES FROM HORIZONTAL OR MORE, OR AT DOORS NOT EXTENDING TO 10

SIDELITES OR VISION LITES: AT DOORS AND SIDELITES ADJACENT TO DOORS WITH ONE OF MORE GLAZING PANELS PERMITTING VIEWING, PROVIDE BOTTOM EDGE OF AT LEAST ONI PANEL ON EITHER THE DOOR OR THE ADJACENT SIDELITE AT 43 INCHES MAXIMUM AFF, EXCEPT AT VISION LITES (ONLY) WITH THE LOWEST PART MORE THAN 66 INCHES AFF.

# ACCESSIBLE DOOR & GATE HARDWARE

PROVIDE ACCESSIBLE HARDWARE WITH AN EASY-TO-GRASP SHAPE COMPLYING WITH OPERABLE PARTS REQUIREMENTS (LEVERS PUSH/PULLS, OR PANIC DEVICES ARE ACCEPTABLE), MOUNTED BETWEEN 2'-10" AND 4'-0" AFF, WITH MAX PROJECTION (INTO REQUIRED MIN CLEARANCES) OF 4 INCH BTWN 34 - 80 INCH AFF

SLIDING DOOR/GATE HARDWARE: OPERABLE PARTS MUST BE EXPOSED AND USABLE FROM BOTH SIDES WHEN DOOR IS FULLY OPEN

DOOR/GATE CLOSERS: ADJUST UNITS TO PROVIDE FIVE (5) SECOND (MIN) TIME TO MOVE

DOOR/GATE SPRING-HINGES: ADJUST TO PROVIDE 1-1/2 SECOND MINIMUM TIME TO

OPENING-FORCE OF CLOSERS OR SPRING-HINGES: 5.0 LBS MAX @ INTERIOR HINGED SLIDING OR FOLDING DOORS OR GATES (NOT APPLICABLE TO LATCH-BOLT RETRACTION

# AUTOMATIC DOORS OR GATES:

REFERENCED STANDARDS: COMPLY WITH ANSI/BHMA A156.10. AND FOR POWER-ASSIST AND LOW-ENERGY DOORS, COMPLY WITH ANSI/BHMA A156.19 (UNLESS DOORS OR GATES ARE DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL)

COMPLY WITH ACCESSIBLE CLEAR-FLOOR SPACE, THRESHOLD / FLOOR-SURFACE, AND DOORS-IN- SERIES REQUIREMENTS.

MANUAL CONTROLS: COMPLY WITH "OPERABLE PARTS" REQMTS WITH THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DOOR/GATE SWING.

# **ACCESSIBLE WINDOWS:**

PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQMTS W/ MIN ACCESSIBLE CLEAR-FLOOR SPACE ADJACENT TO THE WINDOW

SPECIAL ACCESS (PLATFORM) LIFTS (INTERIOR OR EXTERIOR):

COMPLY WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX

(WITH ACCESSIBLE KEY-CONTROLS IF LIFT TRAVEL AREA IS NOT ENCLOSED) AND AS MAXIMUM TRAVEL HEIGHT: 60 INCHES

MINIMUM CAPACITY: 400 POUNDS MINIMUM PLATFORM SIZE: 30 X 48 INCH MAXIMUM SPEED: 20 FPM

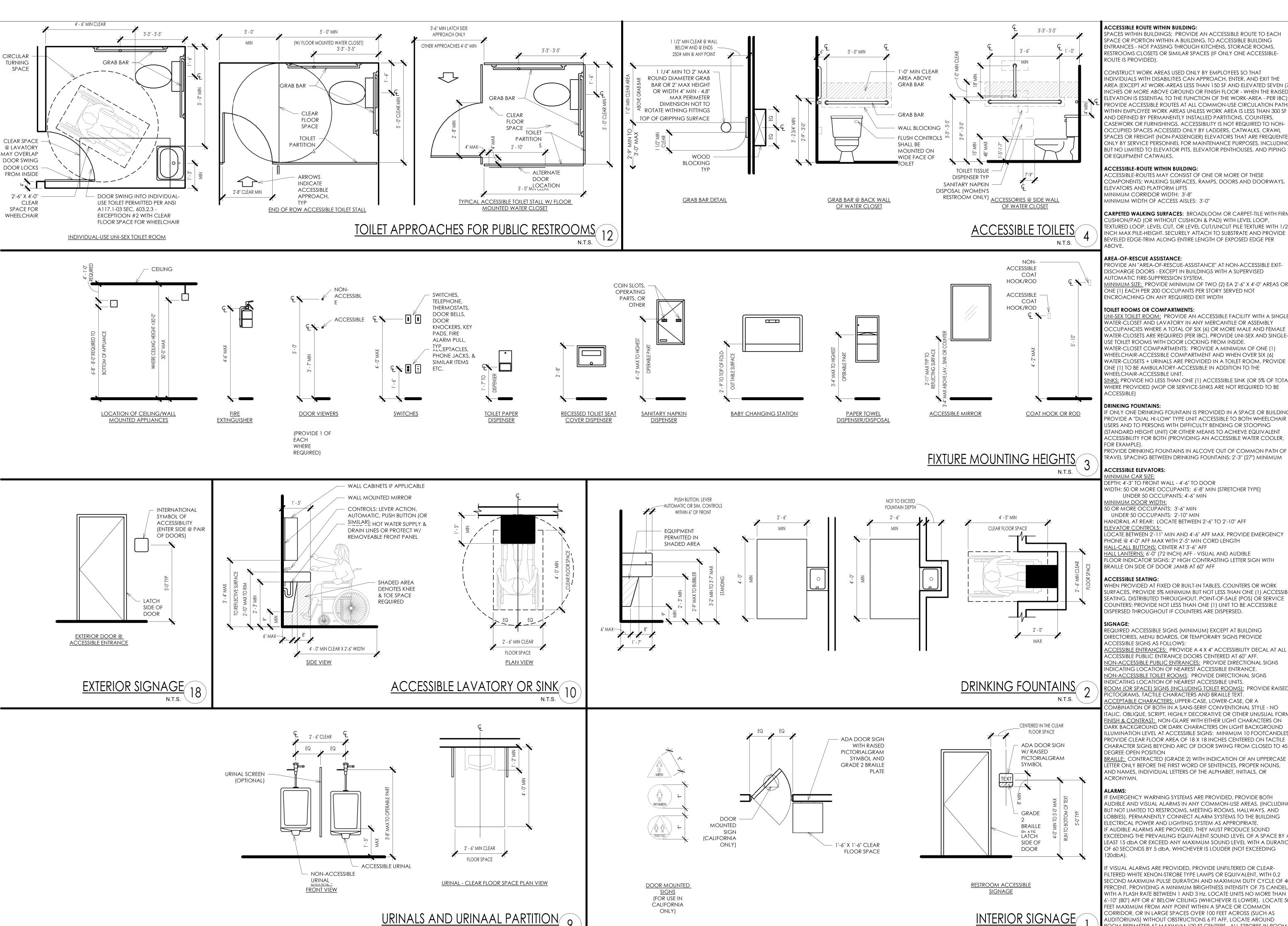
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GENERAL ACCESSIBILITY



SPACES WITHIN BUILDINGS: PROVIDE AN ACCESSIBLE ROUTE TO EACH SPACE OR PORTION WITHIN A BUILDING, TO ACCESSIBLE BUILDING ENTRANCES - NOT PASSING THROUGH KITCHENS, STORAGE ROOMS, ESTROOMS CLOSETS OR SIMILAR SPACES (IF ONLY ONE ACCESSIBLE-

ONSTRUCT WORK AREAS USED ONLY BY EMPLOYEES SO THAT NDIVIDUALS WITH DISABILITIES CAN APPROACH, ENTER, AND EXIT THE AREA (EXCEPT AT WORK-AREAS LESS THAN 150 SF AND ELEVATED SEVEN (7) NCHES OR MORE ABOVE GROUND OR FINISH FLOOR - WHEN THE RAISED LEVATION IS ESSENTIAL TO THE FUNCTION OF THE WORK-AREA - PER IBC) PROVIDE ACCESSIBLE ROUTES AT ALL COMMON-USE CIRCULATION PATHS /ITHIN EMPLOYEE WORK AREAS UNLESS WORK AREA IS LESS THAN 300 SF AND DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, ASEWORK OR FURNISHINGS. ACCESSIBILITY IS NOT REQUIRED TO NON-CCUPIED SPACES ACCESSED ONLY BY LADDERS, CATWALKS, CRAWL PACES OR FREIGHT (NON-PASSENGER) ELEVATORS THAT ARE FREQUENTED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE PURPOSES, INCLUDING JT NO LIMITED TO ELEVATOR PITS, ELEVATOR PENTHOUSES, AND PIPING

ACCESSIBLE-ROUTES MAY CONSIST OF ONE OR MORE OF THESE COMPONENTS: WALKING SURFACES, RAMPS, DOORS AND DOORWAYS, ELEVATORS AND PLATFORM LIFTS

MINIMUM WIDTH OF ACCESS AISLES: 3'-0"

CARPETED WALKING SURFACES: BROADLOOM OR CARPET-TILE WITH FIRM CUSHION/PAD (OR WITHOUT CUSHION & PAD) WITH LEVEL LOOP, EXTURED LOOP, LEVEL CUT, OR LEVEL CUT/UNCUT PILE TEXTURE WITH 1/2 NCH MAX PILE-HEIGHT. SECURELY ATTACH TO SUBSTRATE AND PROVIDE BEVELED EDGE-TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE PER

PROVIDE AN "AREA-OF-RESCUE-ASSISTANCE" AT NON-ACCESSIBLE EXIT-DISCHARGE DOORS - EXCEPT IN BUILDINGS WITH A SUPERVISED

<u>MINIMUM SIZE:</u> PROVIDE MINIMUM OF TWO (2) EA 2'-6" X 4'-0" AREAS OR ONE (1) EACH PER 200 OCCUPANTS PER STORY SERVED NOT ENCROACHING ON ANY REQUIRED EXIT WIDTH

<u>INI-SEX TOILET ROOM:</u> PROVIDE AN ACCESSIBLE FACILITY WITH A SINGLE WATER-CLOSET AND LAVATORY IN ANY MERCANTILE OR ASSEMBLY OCCUPANCIES WHERE A TOTAL OF SIX (6) OR MORE MALE AND FEMALE NATER-CLOSETS ARE REQUIRED (PER IBC). PROVIDE UNI-SEX AND SINGLE-SE TOILET ROOMS WITH DOOR LOCKING FROM INSIDE. vater-closet compartments: provide a minimum of one (1) VHEELCHAIR-ACCESSIBLE COMPARTMENT AND WHEN OVER SIX (6) WATER-CLOSETS + URINALS ARE PROVIDED IN A TOILET ROOM, PROVIDE ONE (1) TO BE AMBULATORY-ACCESSIBLE IN ADDITION TO THE

SINKS: PROVIDE NO LESS THAN ONE (1) ACCESSIBLE SINK (OR 5% OF TOTAL) WHERE PROVIDED (MOP OR SERVICE-SINKS ARE NOT REQUIRED TO BE

ONLY ONE DRINKING FOUNTAIN IS PROVIDED IN A SPACE OR BUILDING, PROVIDE A "DUAL HI-LOW" TYPE UNIT ACCESSIBLE TO BOTH WHEELCHAIR USERS AND TO PERSONS WITH DIFFICULTY BENDING OR STOOPING STANDARD HEIGHT UNIT) OR OTHER MEANS TO ACHIEVE EQUIVALENT ACCESSIBILITY FOR BOTH (PROVIDING AN ACCESSIBLE WATER COOLER, PROVIDE DRINKING FOUNTAINS IN ALCOVE OUT OF COMMON PATH OF

RAVEL SPACING BETWEEN DRINKING FOUNTAINS: 2'-3" (27") MINIMUM

DEPTH: 4'-3" TO FRONT WALL - 4'-6" TO DOOR WIDTH: 50 OR MORE OCCUPANTS: 6'-8" MIN (STRETCHER TYPE)

# O OR MORE OCCUPANTS: 3'-6" MIN

UNDER 50 OCCUPANTS: 2'-10" MIN HANDRAIL AT REAR: LOCATE BETWEEN 2'-6" TO 2'-10" AFF

OCATE BETWEEN 2'-11" MIN AND 4'-6" AFF MAX. PROVIDE EMERGENCY PHONE @ 4'-0" AFF MAX WITH 2'-5" MIN CORD LENGTH

<u> IALL LANTERNS:</u> 6'-0" (72 INCH) AFF - VISUAL AND AUDIBLE LOOR INDICATOR SIGNS: 2" HIGH CONTRASTING LETTER SIGN WITH BRAILLE ON SIDE OF DOOR JAMB AT 60" AFF

when provided at fixed or built-in tables, counters or work Surfaces, provide 5% minimum but not less than one (1) accessible SEATING, DISTRIBUTED THROUGHOUT. POINT-OF-SALE (POS) OR SERVICE COUNTERS: PROVIDE NOT LESS THAN ONE (1) UNIT TO BE ACCESSIBLE DISPERSED THROUGHOUT IF COUNTERS ARE DISPERSED.

REQUIRED ACCESSIBLE SIGNS (MINIMUM) EXCEPT AT BUILDING DIRECTORIES, MENU BOARDS, OR TEMPORARY SIGNS PROVIDE

ACCESSIBLE ENTRANCES: PROVIDE A 4 X 4" ACCESSIBILITY DECAL AT ALL ACCESSIBLE PUBLIC ENTRANCE DOORS CENTERED AT 60" AFF. NON-ACCESSIBLE PUBLIC ENTRANCES: PROVIDE DIRECTIONAL SIGNS NDICATING LOCATION OF NEAREST ACCESSIBLE ENTRANCE. NON-ACCESSIBLE TOILET ROOMS: PROVIDE DIRECTIONAL SIGNS

NDICATING LOCATION OF NEAREST ACCESSIBLE UNITS. OOM (OR SPACE) SIGNS (INCLUDING TOILET ROOMS): PROVIDE RAISED CTOGRAMS, TACTILE CHARACTERS AND BRAILLE TEXT. CCEPTABLE CHARACTERS: UPPER-CASE, LOWER-CASE, OR A

OMBINATION OF BOTH IN A SANS-SERIF CONVENTIONAL STYLE - NO ALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OTHER UNUSUAL FORMS NISH & CONTRAST: NON-GLARE WITH EITHER LIGHT CHARACTERS ON PARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND LUMINATION LEVEL AT ACCESSIBLE SIGNS: MINIMUM 10 FOOTCANDLES PROVIDE CLEAR FLOOR AREA OF 18 X 18 INCHES CENTERED ON TACTILE CHARACTER SIGNS BEYOND ARC OF DOOR SWING FROM CLOSED TO 45

ETTER ONLY BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, OR

EMERGENCY WARNING SYSTEMS ARE PROVIDED, PROVIDE BOTH AUDIBLE AND VISUAL ALARMS IN ANY COMMON-USE AREAS, (INCLUDING UT NOT LIMITED TO RESTROOMS, MEETING ROOMS, HALLWAYS, AND OBBIES). PERMANENTLY CONNECT ALARM SYSTEMS TO THE BUILDING LECTRICAL POWER AND LIGHTING SYSTEM AS APPROPRIATE. FAUDIBLE ALARMS ARE PROVIDED, THEY MUST PRODUCE SOUND EXCEEDING THE PREVAILING EQUIVALENT SOUND LEVEL OF A SPACE BY AT EAST 15 dba OR EXCEED ANY MAXIMUM SOUND LEVEL WITH A DURATION. OF 60 SECONDS BY 5 dbA, WHICHEVER IS LOUDER (NOT EXCEEDING

F VISUAL ALARMS ARE PROVIDED, PROVIDE UNFILTERED OR CLEAR-FILTERED WHITE XENON-STROBE TYPE LAMPS OR EQUIVALENT, WITH 0.2 SECOND MAXIMUM PULSE DURATION AND MAXIMUM DUTY CYCLE OF 40 PERCENT, PROVIDING A MINIMUM BRIGHTNESS INTENSITY OF 75 CANDELA WITH A FLASH RATE BETWEEN 1 AND 3 Hz. LOCATE UNITS NO MORE THAN '-10" (80") AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER). LOCATE 50 FEET MAXIMUM FROM ANY POINT WITHIN A SPACE OR COMMON ORRIDOR, OR IN LARGE SPACES OVER 100 FEET ACROSS (SUCH AS AUDITORIUMS) WITHOUT OBSTRUCTIONS 6 FT AFF, LOCATE AROUND ROOM PERIMETER AT MAXIMUM 100 FT CENTERS. ALL STROBES IN ROOM MUST BE SYNCHRONIZED.

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CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless

otherwise directed.

structure, site conditions, existing construction elements, or any

**project** title

Blue Summit, M U U 10 Ŝ REI Φ 0 Φ

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**project** number

**drawing** issuance ISSUED FOR PERMIT

**drawing** revisions Description:

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RED 910

Lee's Summit, MO

project number

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drawing title LIFE SAFETY PLAN

LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

# LULULEMON PROVIDED AND APPROVED SPECIFICATIONS

#### RFID SHIELDING REQUIREMENTS:

WHITE RFID SINGLE REFLECTIVE SHIELDING TO BE INSTALLED OVER EXISTING GYP. BD. ON ALL STOCKROOM PARTITIONS CONTINUOUS WITH THE SALES FLOOR AND ADJACENT TENANTS. SEE PRODUCT SPECIFICATIONS FOR INSTALLATION DETAILS AND REQUIREMENTS.

WHITE SINGLE REFLECTIVE SHIELDING TO BE INSTALLED FULL HEIGHT AND WIDTH OF ENTIRE PARTITION OR TO UNDERSIDE OF DECK

MIN. HEIGHT OF RFID SHIELDING TO 12'-0"

ENSURE A 2" MINIMUM OVERLAP ON ALL SEAMS TO ENSURE THERE IS NO BLEED.

SEE PRODUCT SPECIFICATIONS FOR MORE INSTALLATION DETAILS AND REQUIREMENTS. RFID SINGLE REFLECTIVE SHIELDING TO BE INSTALLED ON THE STOCKROOM SIDE OF THE EXISTING WALL

ALL PENETRATIONS INCLUDING BUT NOT LIMITED TO OUTLETS, CONDUIT, PIPING AND DUCTWORK SHALL BE SEALED WITH SPECIFING RFID SHIELDING TAPE

SEE PRODUCT SPECIFICATIONS FOR MORE INSTALLATION DETAILS AND REQUIREMENTS.

### RFID SINGLES REFLECTIVE SHIELDING (SIDE FACING BACKROOM IS REQUIRED TO BE WHITE): OPTIONS BELOW OR SIMILAR:

PRODUCT: SINGLE BUBBLE/WHITE FOIL REFLECTIVE INSULATION

• OPTION 1:

HTTPS://WWW.REFLECTIXINC.COM/PRODUCTS/SINGLE-REFLECTIVE-INSULATION/ • OPTION 2:

HTTP://WWW.RADIANTBARRIER.COM/PRODUCTS/TEMPSHIELD-SINGLE-BLIBBLE-WHITF-FOIL/ OPTION 3:

HTTPS://WWW.AVERYDENNISON.COM/CONTENT/DAM/AVERYDENNISON/PT/NA/EN/LITERATU RE/PRODUCT%20INFORMATION/FT%200815/FT-0815-TDS-ADPT.PDF

• PRODUCT: SHIELD SENSE FT 0815/ALUMINUM FOIL ROLL & TAPE

• ROLL: 27" WIDE X 187 FT ROLL FOR WALL SURFACE APPLICATION.

• TAPE: 4" WIDE ROLL FOR SEALING PENETRATIONS AT OUTLETS, CONDUIT, PIPING AND DUCTWORK.

#### FLOORING SPECIFICATIONS **CONCRETE SPECIFICATIONS**

OPTION 1

• GRIND AND POLISH EXISTING CONCRETE FLOORING

• COLOUR: SITE DEPENDANT

POLISH: LEVEL 1

AGGREGATE: VARIES

• APPLICATION: SALES FLOOR RETROPLATE TO REPOLISH EXISTING CONCRETE FLOORS – OR GC TO DO SIMILAR WITHOUT USING THE CERTIFIED "RETROPLATE" INSTALLER AND PRODUCT

• FOR CONCRETE FLOORS THAT ARE NOT IN A CONDITION THAT THEY CAN BE PATCH AND REPOLISHED WHICH IS OUR ARDEXTOPPING.

#### **BASEBOARD SPECIFICATIONS:**

• INSTALL WHITE VINYL BASEBOARDS (4 ½" X 3/8" JOHNSONITE MANDALAY 50 WHITE OR SIMILAR) THROUGHOUT SALESFLOOR

• INSTALL BLACK VINYL BASEBOARDS (4 1/2" X 3/8" JOHNSONITE MANDALAY 40 BLACK OR SIMILAR) THROUGHOUT BACK OF HOUSE SPACES.

## **WALL FINISH SPECIFICATIONS:**

• FOH/SALES FLOOR WALLS: BENJAMIN MOORE REGAL SELECT HORIZON OC-53; FINISH:

• FOH FITTING ROOM WALLS: BENJAMIN MOORE ULTRA SPEC SCUFF-X HORIZON OC-53; FINISH: MATTE (484)

• BOH/RESTROOM WALLS: BENJAMIN MOORE ULTRA SPEC SCUFF-X STONINGTON GRAY; FINISH: SATIN (486)

• DOOR FRAMES AND DOORS: BENJAMIN MOORE ULTRA SPEC SCUFF-X KENDALL CHARCOAL HC-166; FINISH: SATIN (486)

• WHITE SPEC (CEILINGS AND OTHER ELEMENTS REQUIRED TO BE WHITE): BENJAMIN MOORE WATERBOURNE CEILING PAINT CHANTILLY LACE OC-65; FINISH: ULTRA FLAT (508)

# **CEILING PAINT SPECIFICATIONS:**

• OPEN CEILING [14'-0" TO 16'-0"]: BENJAMIN MOORE WATERBOURNE CEILING PAINT SECRET AF-710: FINISH: ULTRA FLAT

• TO BE USED WHEN DECK IS BETWEEN 14'-0" TO 16'-0" AFF- TBC WITH LULULEMON PRIOR TO **IMPLEMENTATION** • APPLICATION: FOH/SALESFLOOR CEILING SURFACE, HVAC, EXPOSED CEILING ITEMS, WALLS

ABOVE 12'-0" PAINT LINE WHEN OPEN LID CEILING CONDITIONS OCCUR. PAINT LINE TO RETURN DOWN TO 12'-0" AFF.

• OPEN CEILING [16'-0" +]: BENJAMIN MOORE WATERBOURNE CEILING PAINT KENDALL CHARCOAL HC-166; FINISH: ULTRA FLAT (508) • TO BE USED WHEN DECK IS OVER 16'-0" AFF- TBC WITH LULULEMON PRIOR TO

IMPLEMENTATION

• APPLICATION: FOH/SALESFLOOR CEILING SURFACE, HVAC, EXPOSED CEILING ITEMS, WALLS ABOVE 12'-0" PAINT LINE WHEN OPEN LID CEILING CONDITIONS OCCUR. PAINT LINE TO RETURN DOWN TO 12'-0" AFF.

• GWB PAD CEILING/HARD LID CEILING OR ACT CEILING; BENJAMIN MOORE CHANTILLY LACE OC-65; FINISH: ULTRA FLAT (508) • TO BE USED FOR GWB CEILING AND PERIMETER SOFFITS - TBC WITH LULULEMON PRIOR TO

IMPLEMENTATION • APPLICATION: FOH/SALESFLOOR CEILING WHEN GWB PAD AND HARD LID CEILING IS

# PRESENTED OR ACT IS PROVIDED.

**RESTROOM FIXTURE AND ACCESSORY SPECIFICATIONS:** ALL EXISTING RESTROOM FIXTURES TO REMAIN.

#### **BOH KITCHENETTE SPECIFICATIONS:** CABINET:

• FRAME AND DOORS TO BE MADE OF WHITE P-LAM PANELS. CABINET TO HAVE A 4" H TOE KICK WITH A BASE ATTACHED TO THE TOW KICK PANEL.

CABINET TO BE ADA COMPLIANT WITH THE TOP OF THE COUNTERTOP AT 34"H MAX. SEE DETAIL/ELEVATION FOR REFERENCE.

# HARDWARE:

LIBERTY 1 ¼" ROUND SOLID KNOBS

• FINISH: SATIN NICKEL OR EQUIVALENT.

COUNTERTOPS:

SUPPLIER/SPEC: IKEA

COLOUR: WHITE

• SIZE: 25 5/8" X 98"

STYLE: SAJAN

# FITTING ROOM FIXTURE SPECIFICATIONS:

• HANGBAR: TWO (2) X 30"L HANGBARS IN BLACKENED STAINLESS STEEL TO BE INSTALLED IN EACH FITTING ROOM OR EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL CONSTRUCTION & DESIGN TEAM]

• HOOKS: FIVE (5) HOOKS TO BE PROVIDED FOR EACH FITTING ROOM. FINISH TO BE BLACKENED STAINLESS STEEL OR EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL CONSTRUCTION & DESIGN TEAM]

EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL CONSTRUCTION & DESIGN TEAM]

• CURTAIN ROD: HTTPS://WWW.AMAZON.COM/IVILON-DRAPERY-WINDOW-CURTAIN-ROD/DP/B06WWP9XXB OR EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL

• CURTAIN/DRAPES: TO BE BLACKOUT CHARCOAL CURTAIN A MINIMUM OF 60"W PANELS

### LIGHTING SPECIFICATIONS:

WARM TEMPERATURE: 3000K

• LIGHT SPACING: 1 LIGHT EVERY 18" TYP. U.N.O. ON PLANS

• TRACK DISTANCE FROM THE WALLS: 4'-0" AWAY FROM THE WALLS AROUND THE PERIMETERS

# TRACK LIGHTING:

• CON TECH LT-4-P, LT-6-P, LT8-P, LT-12-P, 1 CIRCUIT SUSPENDED WHITE/BLACK

TRACK (COLOUR TO BE CONFIRMED WITH LLL DESIGNER)

### BE CONFIRMED WITH LLL DESIGNER) **WALL WASHER SPECIFICATIONS:**

• LUMENTURE TWW160-30H-1600-B-J TRACK HEAD – BLACK WALL WASHER 17 WATT LED

# POT LIGHT:

• CON TECH RL38L-ICSA RF6L130KCE-PL LED DOWN LIGHT – WHITE TRIM 15W LED CEILING

STAFF ROOM RECESSED IN GWB

FITTING ROOM LIGHTING:

### BOH/BACKROOM LIGHTING:

• L8 DAY-BRITE CFI FSS8-80L-830-UNV-DIM 62 WATT LED BACK OF HOUSE LED STRIP

• RECESSED @ CEILING HEIGHT BROAN AE80L DELUXE FAN LIGHT COMBO 11 WATT LED

 ADA BENCH: HTTPS://PRIVEEDESIGNS.COM/COLLECTIONS/DRESSING-ROOM-ACCESSORIES/PRODUCTS/ADA-BENCH-42X18X24?VARIANT=32069850726533 OR

CONSTRUCTION & DESIGN TEAM]

MOUNTED TO BE 4" CLEAR FROM FLOOR.

• BEAM SPREAD: 25-40

• LUMENS: 1600

• DISTANCE BETWEEN TRACKS: 6'-0" TO 8'-0" MAX U.N.O.

• INSTALL DIRECTIONS: TRACK TO BE HUNG FROM STRUCTURE @12'AFF • CON TECH GIMBLE, CTL838/2-P WHITE/BLACK TRACK HEAD 250W PAR38 (COLOUR TO

TRACK MOUNTED

DIRECTED TOWARDS WALL

RECESSED

• TO BE USED AS REQUIRED IN FOH/SALESFLOOR

• SURFACE MOUNTED @7' AFF ON FITROOM WALLS WITH ALUM CHANNEL (ALP-130-98-FR).

• SURFACE MOUNTED OR SUSPENDED

LIGHT, SUSPENDED U.N.O.

# BATHROOM LIGHTING: (EXISTING TO REMAIN)

• FAN LIGHT COMBO TO BE CENTERED IN THE ROOM; FAN: 27 WATT/80CFM

# CONTINUOUS 5/8" MIN. FIRE DEEP LEG TRACK SEALANT BETWEEN GYP. AND DECK **ROOF DECK** PACK VOIDS WITH THERMA FIBER FIRE SAFE INSULATION "FIRE TRACK" W/ SLIP CLIP CONNECTIONS TO EACH 1" CLEAR FOR STRUCTURAL STUD DEFLECTION RE: WALL TYPE FOR WIDTH NOTE: SEAL ALL PENETRATIONS, GAPS, ETC. WITH FIRE RATED SEALANT TO MAINTAIN FIRE RATING OF A1 TO DECK

# NOT USED

STRUCTURE

CEILING

TOP TRACK

METAL STUDS

**BOTTOM TRACK** 

WALL BASE

PER PLANS

PER FLOOR

PLANS

— SLAB

FLOOR FINISH

GYPSUM BOARD

INTERIOR PARTITIONS

3 5/8" X 20 GAUGE

METAL STUDS AT 16"

OC (TYP) WITH 5/8"

GYPSUM BOARD

GYPSUM BOARD

BEAD ON TOP OF

WALL, FLOOR TO

8'-0" AFF.

ON BOTH SIDES,

AND CORNER

CEILING

- GYPSUM BOARD

METAL STUDS

**WALL BASE** 

PER PLANS

SLAB

FLOOR FINISH

INTERIOR PARTITIONS

METAL STUDS AT 16"

OC (TYP) WITH 5/8"

GYPSUM BOARD

ABOVE CEILING

**UNLESS OTHERWISE** 

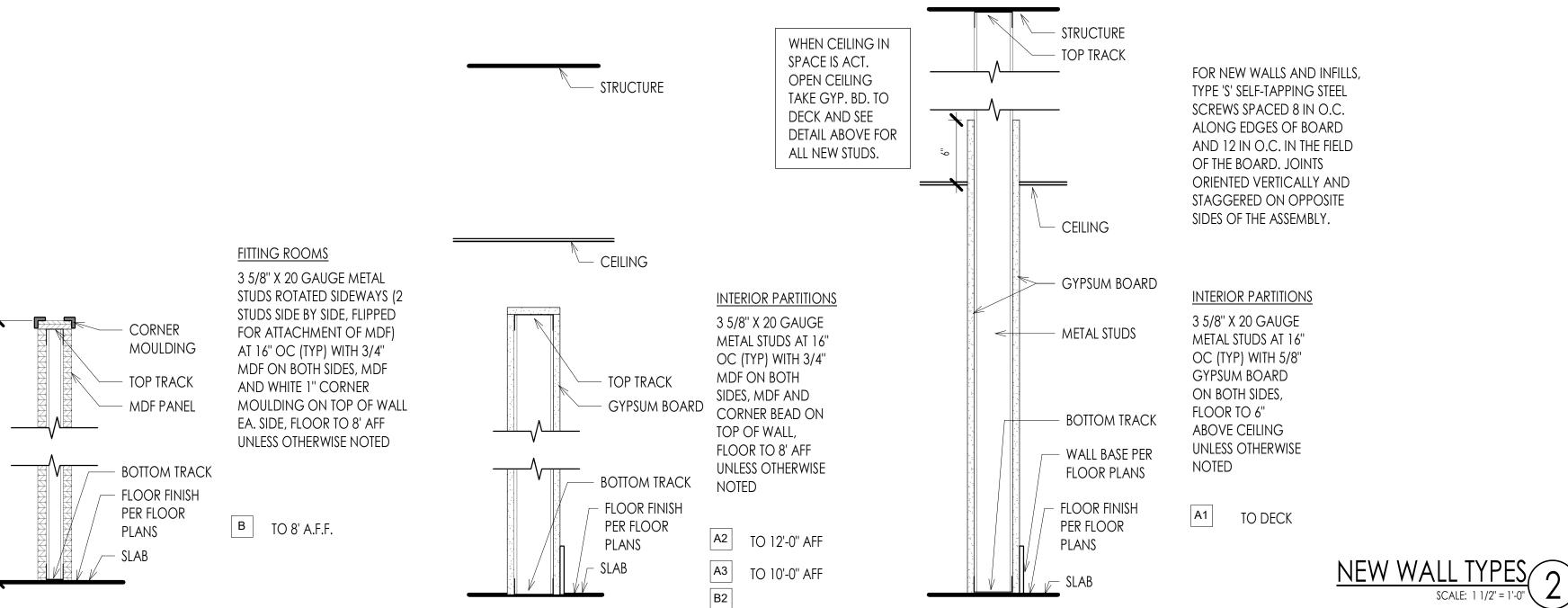
ON BOTH SIDES,

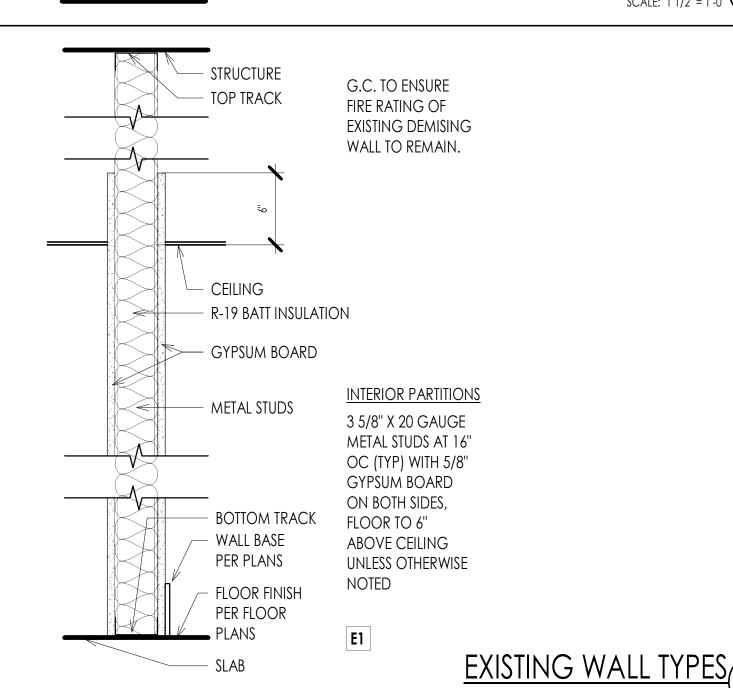
FLOOR TO 6"

NOTED

6" X 20 GAUGE

# TOP OF WALL TO ROOF DECK CONNECTION (2)





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**WALL TYPES** 

EXISTING TO REMAIN EXISTING TO BE DEMO'D

# GENERAL DEMOLITION NOTES

- REFER TO OTHER SHEETS IN THIS SET FOR ADDITIONAL DEMOLITION REQUIREMENTS, WHICH SHALL BE BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

- PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH THE OWNER/LANDLORD'S CRITERIA. COORDINATE DEMOLITION WITH OWNER/LANDLORD'S REPRESENTATIVE AND CONTACT OWNER/LANDLORD IN ADVANCE OF ANY WORK INVOLVING CONNECTION TO OWNER'S/LANDLORD'S BUILDING SYSTEMS OR REQUIRING TEMPORARY SHUT
- 10. WHERE INDICATED REMOVE EXISTING PARTITIONS, CEILINGS, SOFFITS AND ASSOCIATED FRAMING AND BRACING BACK TO STRUCTURE. PROTECT EXISTING STRUCTURAL
- 12. DEMOLITION PLAN SHOWS APPROXIMATE LAYOUT OF EXISTING BUILDING AND IS NOT INTENDED TO REPRESENT "AS-BUILT" CONDITIONS. VISIT SITE AND OTHERWISE BECOME
- 13. WALLS, PARTITIONS, DOORS, FRAMES, AND OTHER ITEMS TO BE REMOVED ARE SHOWN DASHED. SERVICES WITHIN WALLS AND PARTITIONS SHALL ALSO BE REMOVED. EDGES OF WALLS SHOWN TO REMAIN SHALL BE SAWCUT OR CLEANLY TOOTHED TO ACCEPT NEW CONSTRUCTION. REPAIR AND PATCH EXISTING WALLS SHOWN TO REMAIN WHERE

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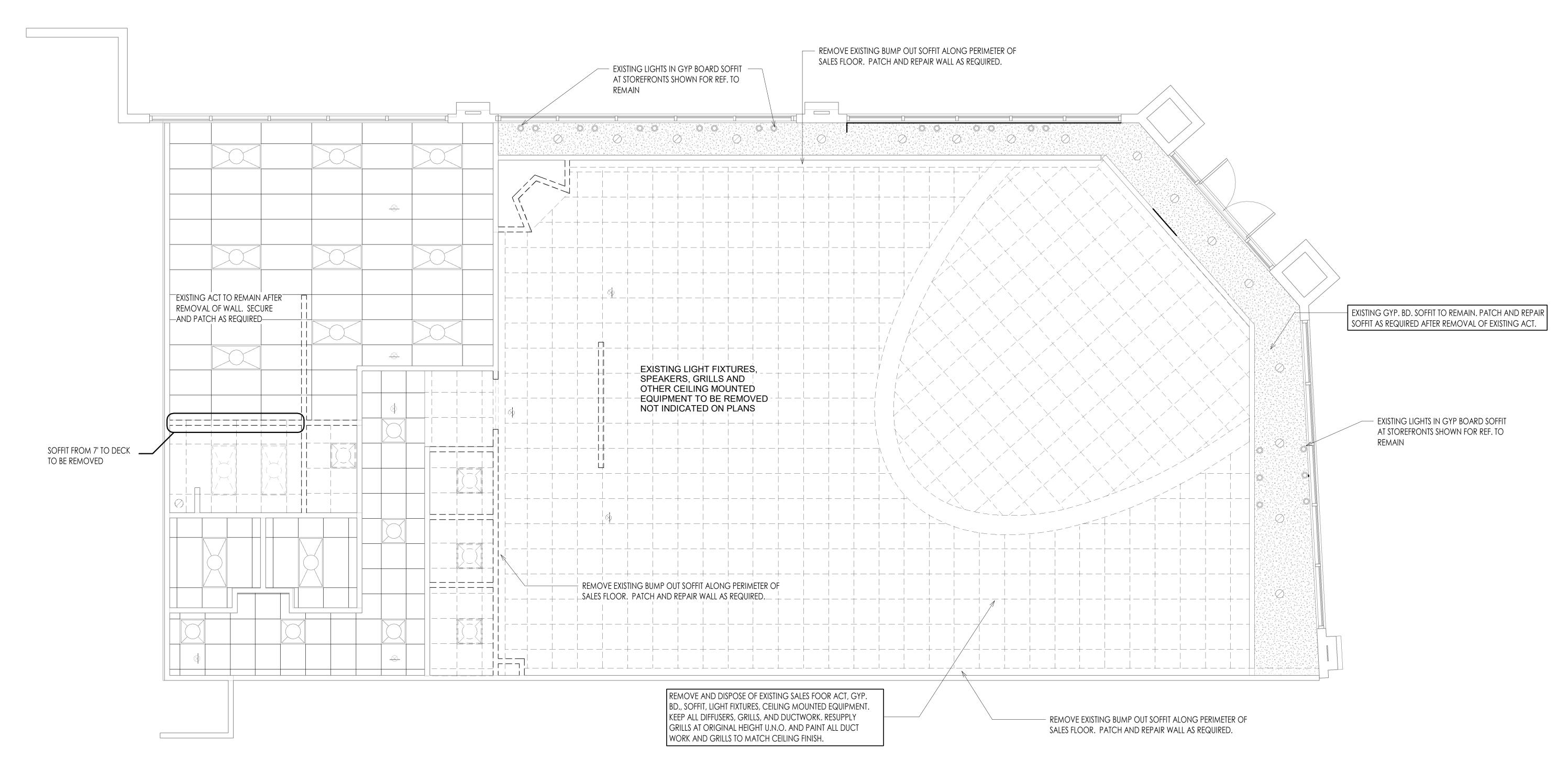
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DEMO PLAN



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arrangement, and composition of spaces and elements

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CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless otherwise directed.

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DEMO REFLECTED CEILING PLAN

TENANT SPEC

FITTING ROOM

MIRROR WITH LIGHT FIXTURE ABOVE.



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FLOOR PLAN

A100

ALL DEFECTIVE FIXTURES AND LIGHTS TO BE

REPLACED OR REPAIRED

KIANTOVERORE LANE, SUITE 400 • LENEXA, KS 66219

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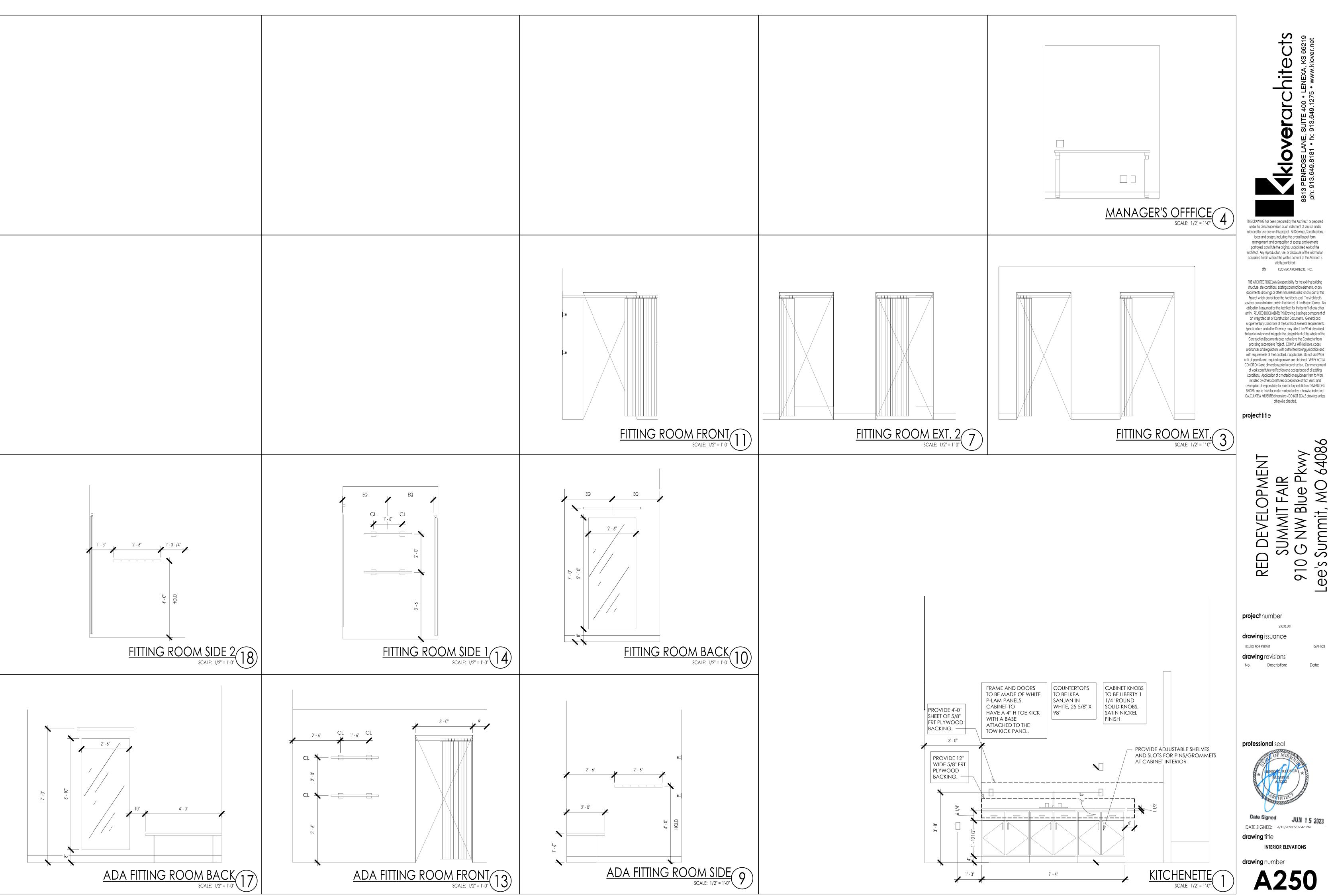
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REFLECTED CEILING PLAN

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



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INTERIOR ELEVATIONS

AIA DOCUMENT A701-1997 "INSTRUCTIONS TO BIDDERS" is included as a part of these document by this reference. Copies are available from The American Institute of Architects, 1735 New York Avenue N. W., Washington, D. C. 20006, or the local AIA office. Note that Paragraph 2.1.3 requires that each bidder visit the site prior to submitting a bid/proposal.

THE FOLLOWING PARAGRAPHS modify, delete from, and/or add to the above referenced Instructions to Bidders, as if originally written therein. Where any Article of the Instructions is modified, or where any Paragraph, Subparagraph or clause thereof is modified or deleted by the following Supplementary Instructions, the unaltered provisions shall remain in effect.

ADD the following paragraph to Article 1 - Definitions: "1.10 STIPULATED SUM amounts shall include all costs to the Contractor for materials, labor, equipment, testing and any and all items of expense (including phone calls), fees, taxes, overhead and profit for the Contractor's full and complete performance of the Work as set forth in the Contract Documents."

REPLACE Paragraph 2.1.4 to read as follows: "Any deviations from or exceptions to the Specifications, Drawings, Terms and Conditions and/or any other Bid Document must be clearly defined and set forth in the Bidder's Proposal. If no exceptions are shown in the proposal, none will be considered at the time of Contract Award.

REPLACE Paragraph 3.3.2 to read as follows: "3.3.2 Substitutions proposed by a Bidder are not to be included in the Base Bid, but may be appropriately itemized on the Bid Form or as an attachment thereto as a "Contractor's Voluntary Alternate" with the corresponding add or deduct amount included."

#### ADD New Paragraph: 4.1.8 as follows:

"4.1.8 Bids shall remain in effect for a period of no less than THIRTY (30) days after submittal. The proposed price(s) shall include all costs to the Contractor for materials, labor, equipment, testing and any and all items of expense (including phone calls), fees, taxes, overhead and profit for the Contractor's full and complete performance of the work as set forth in the Contract Documents."

#### ADD New Paragraph: 4.1.9 as follows:

"4.1.9 Provide a complete line-item breakdown of all development or construction related fees included within the proposed Contract Sum, either on the Bid Form, or as a separate attachment if necessary. '

#### DELETE Paragraph 4.2 in its entirety - no bid security will be required.

ADD Paragraph: 5.3.3 as follows: "5.3.3 Bidders are hereby advised that Proposals for this Work are being invited from other

### DELETE subparagraph 7.1.1 and ADD the following:

"7.1.1 Costs for Performance and Labor and Material Payment Bonds shall be indicated as an alternate cost on the Bid Form, and shall not be included within the Base Bid amount. The Owner reserves the right to require such bonds to be furnished upon execution of the Contract (or subsequent to contract execution as a change order) in the amount specified on the Bid

ADD the following Paragraph 8.1 - Form of Agreement: "8.1 Form of Agreement: The Agreement form may be either AIA Document A101, or on an equivalent non-standard form with similar language acceptable to both the Owner and to the Contractor. If approval by both parties cannot be reached on the format of the non-standard form, then AIA Document A101 will be used."

#### SECTION 00 73 00 - SUPPLEMENTARY CONDITIONS

GENERAL CONDITIONS: AIA Document A 201-1997 Edition: "General Conditions of the Contract for Construction" is included as a part of the Contract Documents by reference. Participation in the Work of this Project is considered acknowledgement of the participants understanding of, and agreement with, all requirements of the Contract for Construction.

THE FOLLOWING "SUPPLEMENTARY CONDITIONS" modify the "General Conditions" as if originally written therein. Where a portion of the General Conditions is modified or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in full effect.

# ARTICLE 1 - CONTRACT DOCUMENTS

ADD to paragraph 1.1, DEFINITIONS, the following: "1.1.8 'FURNISH': Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.

1.1.9 'INSTALL': Operations at the Project Site including but not limited to unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.

# 1.1.10 'PROVIDE': Furnish and install, complete and ready for the intended use.

ADD to paragraph 1.2, CORRELATION AND INTENT . . . the following: "1.2.4 THE INTENT OF THE CONSTRUCTION DOCUMENTS is to include all items required for completion of the Work. Although the Drawings have been prepared with due care and diligence, design and construction is complex. Consequentially, the Drawings are often diagrammatic - as every potential condition or contingency cannot be anticipated or fully indicated, and all components required for complete installation may not be fully indicated.

1.2.5 Notes written in the imperative mood refer to action(s) to be performed by the Contractor, the words 'the Contractor shall' are always implied, unless otherwise noted within the Construction Documents.

1.2.6 Figured dimensions and marked data shall take precedence over scaled measurements, and details shall take precedence over smaller scale general drawings.

1.2.7 In case of conflict in or between contract requirements (General and Supplementary Conditions), General Requirements (Division-1 Specification Sections), Drawings, Specifications or manufacturer's product requirements, the Contractor will be deemed to have estimated on, and agreed to provide, the greater quantity and better quality of materials and Work."

# REPLACE Paragraph 1.5.2 with the following:

"1.5.2 Execution of the Contract by the Contractor is a representation that the Contractor has carefully examined and understands the intent of the Contract Documents, that the Contractor has visited the project site and has reviewed the conditions under which the Work will be performed (including but not necessarily limited to labor availability, codes and regulations, hazards, procedures, construction means and methods necessary and weather conditions), and that he/she has correlated his/her personal observations with the requirements of the Contract Documents. No claims will be approved for additional time or costs resulting from the Contractor's lack of familiarization of the requirements of the Construction Contract."

# ADD to Paragraph 1.6 the following:

"1.6.2 Electronic media files are considered 'Instruments of Service' of the Architect, who retains all common law, statutory law and other rights, including the copyright. No representation is made regarding the accuracy or completeness of electronic media data. If electronic media files are transferred from the Architect to the Contractor, the Contractor will not use the Electronic Media data for any purpose other than preparation of shop drawings, coordination drawings, or for Record Drawings of this Project. The Contractor agrees not to transfer the electronic media data to any entity not involved in the construction Work without the prior written consent of the Architect. The Contractor further agrees to waive all claims against the Owner and the Architect, resulting in any way from any use of the use of the electronic media data. Use of electronic media data does not reduce or minimize in any way the Contractor's responsibility to take field measurements, check dimensions, and to coordinate with other construction work at the Project Site."

# ARTICLE 3 - CONTRACTOR

# ADD to Paragraph 3.5 the following:

"3.5.2 It is hereby understood that the failure of any piece of equipment, material, or service provided in this Contract to fail approval by any public authority constitutes a default in performance and that the Contractor will correct such failure as expeditiously as possible in a manner acceptable to such authorities and to the Owner. If the Contractor does not provide corrections within thirty (30) days of discovery of the default condition, the Owner may provide the corrections and charge the Contractor for all costs incurred plus a ten percent (10%) administrative fee or \$500, whichever is greater."

ADD to subparagraph 3.7.1 the following:

"3.7.1.1 The Contractor shall pay for all hook-up charges, 'tap-in' fees, permit-fees and other related expenses related to agency review and approval of the construction, as required for full connection or hook-up of all utilities. Impact- or use-fees charged by public agencies or utilities related to the Owner's increased use of such utilities will be paid directly by the

ADD to Paragraph 3.10 the following:

"3.10.4 If the Contractor fails to adhere to the Construction Schedule, the Contractor will furnish additional labor and/or services, or work sufficient overtime as may be necessary to make construction progress conform to the Construction Schedule. Failure to adhere to the schedule, or failure to take steps to regain the schedule, shall constitute default within the terms of the Contract."

#### ARTICLE 4 - ADMINISTRATION OF THE CONTRACT

REVISE Article 4 from Paragraph 4.2, through Paragraph 4.6 inclusive, by substituting the word "Owner", wherever the word "Architect" is used, as the Owner will administer the Construction

ADD to Paragraph 4.3.7.1 the following: "Notice of the Contractor's intent to make a claim for additional time must be received by the Owner within seven (7) days of commencement of the event or condition forming the

#### ARTICLE 9 - PAYMENT AND COMPLETION

"9.3.1.3 Unless otherwise indicated in the Owner - Contractor Agreement Form, The Owner wil retain ten percent (10%) of the amount of each progress payment application until final

#### payment. ARTICLE 11 - INSURANCE & BONDS

ADD to Subparagraph 11.1.1 the following:

"11.1.4 Liability insurance shall include all major divisions of coverage and shall be on a comprehensive basis with specified limits listed below maintained specifically for this project. Coverages shall include: Personal Injury Liability with Employment Exclusion deleted, Contractual, including specified provisions for Contractor's obligation under Paragraph 3.18, Owned, non-owned and hired motor vehicles, and Broad Form Property Damage coverage. Premises-Operations, Independent Contractor's Protective, Products and Completed Operations, Owner's & Designers Protective Liability, and Broad Form Property Damage coverage. Property Damage Liability coverage shall provide X, C, and U coverages, with Completed Operations and Products Liability coverage maintained for two (2) years after final payment. The following minimum limits are applicable to each incident occurrence as well as for the total annual aggregates - which shall be dedicated specifically for this project only. Minimum coverage amounts shall be as listed below, or as required by law, whichever is greater:

Worker's Compensation:	Statutory
General Employer's Liability:	\$ 1,000,000.00
Comprehensive General Liability, Contract	ual Liability, Owners & Contractor's Protective
Liability, and Independent Contractors Prot	ective Liability:
Property damage:	\$ 1,000,000.00
Bodily injury:	\$ 1,000,000.00
Contractual Liability:	
Property Damage:	\$ 1,000,000.00
Bodily injury:	\$ 1,000,000.00
Comprehensive Automobile Liability	<b>y:</b>
Property Damage:	\$ 1,000,000.00
Bodily injury:	\$ 1,000,000.00
Umbrella Excess Liability Insurance:	\$ 2,000,000.00

ADD to Subparagraph 11.1.3, the following: "11.1.3.1 All certificates of insurance required herein shall name the Owner, the Landlord (as applicable) and the Architect as additional insured."

DELETE Paragraph 11.3 - Project Management Protective Liability Insurance, in its entirety.

DELETE Subparagraph 11.5.1 from Paragraph 11.5 - Performance Bond and Payment Bond, and ADD the following:

"11.5.1 BONDS are not required by the Owner, however Performance and Payment Bonds may be required by the Landlord. When applicable, review the Landlord's requirements and provide bonds complying therewith. If required, submit notarized bond forms to the Owner and Landlord prior to start of construction. Costs for bonds, if required, shall be included in the

# GENERAL REQUIREMENTS

THE WORK consists of limited demolition and new interior tenant-finish construction as indicated in the Construction Documents. Perform all work required for completion of the Project, except as otherwise indicated herein.

USE OF EXISTING BUILDING: Limit construction activities to occur within the Project Site, or within other areas designated or approved for use by the Owner or Landlord. If not within the project site, make connections to existing utilities in the most expeditious manner possible. Perform the Work so that it will not interfere with adjacent facilities.

MAINTAIN THE EXISTING BUILDING in a safe and weather tight condition. Do not install combustible materials above finished ceilings or in any other concealed spaces. Repair damage caused by construction operations. Take all precautions necessary to protect the existing building and its occupants. Keep public areas such as hallways, stairs, and existing toilet rooms free from accumulation of waste material, rubbish or construction debris.

# PROJECT COORDINATION & ADMINISTRATION:

SCHEDULE AND COORDINATE THE WORK of the complete Project to assure an efficient and orderly sequence of installation of construction elements, with provisions for accommodating items to be installed later. Prepare general coordination drawings, schedules, and control site utilization, from beginning of construction throughout project close-out. Coordinate space requirements and installation of mechanical and electrical Work which are indicated diagrammatically on the Drawings. Follow routing shown for pipes, ducts, and conduits, as closely as practical; make runs parallel with lines of the building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs. Conceal pipes conduits and similar elements whenever possible within the new construction, in finished

MAINTAIN A RECORD-SET of Construction Documents indicating differences between Construction Documents and the actual installed Work. Mark revisions made during construction with colored pencil - do not conceal any Work before revisions have been recorded. Note actual routing of under-slab plumbing and utility lines, if different from design

DO NOT construct or install any portion of the Work related to these drawings at any time without such drawings being available at the site.

# SUBMITTALS

COORDINATE submittals with related submittals and other activities that require sequential action. Group transmittal of different kinds of submittals for the same unit of work so that information is available for checking each item when it is received. Consecutively number all submittals - when an item is resubmitted for any reason, transmit under a new letter of transmittal and with a new transmittal number.

SUBMITTALS SHALL CONTAIN the date of submission; the Project Title; the Contractor's name, the name of the sub-contractor, supplier or manufacturer, as applicable; identification of the product being submitted; clear identification of field dimensions, verified by the Contractor; relation to adjacent or critical features of the Work; applicable standards; identification of deviations from the Contract Documents; and a clear space for the Contractor's and the Architect's review stamps.

STAMP & APPROVE ALL submittals with an approval stamp, dated, and initialed or signed, certifying approval of the submittal, verification of the product being submitted, and verification that the product submitted complies with the requirements of the Contract Documents. Failure to properly verify conformance and conditions at the job site will not relieve the Contractor of the responsibility to properly install the Work.

ELECTRONIC SUBMITTALS: In order to conserve paper, limit delivery/courier expenses, and to expedite the review process, forward electronic submittals to the greatest extent feasible. Maintain one (1) set of printed, approved submittals at the Project Site, complete with applicable review and approval comments.

SHOP DRAWINGS: Submit three (3) full-size printed originals (one to be returned) in addition to electronic submittals. Make and distribute as many copies as necessary for records, coordination, construction operations.

### TEMPORARY FACILITIES & CONTROLS

INCLUDE ALL COSTS for temporary utilities, temporary facilities and temporary controls within the Contract Sum. Connect to existing systems at the project site to provide for temporary water, electrical power, lighting and heat for construction operations, unless otherwise indicated.

PROVIDE TEMPORARY ELECTRICAL POWER including a grounded power distribution system with overload protection. Size system to accommodate use of power tools, electrical heating, lighting, and start-up testing of permanent electric-powered equipment prior to it permanent connection. Locate multiple outlets (minimum of 4-gang) spaced so that the construction area can be reached by power tools on a single extension cord of 50' maximum length.

PROVIDE TEMPORARY LIGHTING fixtures in areas where ceilings and existing fixtures are removed. Re-use existing lighting fixtures when possible and suspend from the existing structure. Remove temporary lighting fixtures when permanent fixtures are operational.

PROVIDE SANITARY FACILITIES including temporary toilets, wash facilities and drinking water dispensers for the use of all workers. Existing toilet facilities cannot be used by construction personnel. Provide separate facilities for male and female personnel when both sexes are working. Comply with all applicable codes and regulations and health department requirements for the type, number, location, operation and maintenance of fixtures and facilities. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility.

PROVIDE TEMPORARY HEAT AND VENTILATION to maintain adequate environmental conditions to facilitate progress of the Work, to meet specified minimum conditions for the installation and proper curing of materials, to protect materials and finishes from damage due to temperature or humidity, and to prevent hazardous accumulations of dust, fumes, vapors or gases. Once new systems are operational, they may be used for temporary heating and cooling only if: (1) all registers diffusers and filters are cleaned before substantial completion, and (2) warranty periods remain unchanged, starting from the date of Substantial Completion.

PROVIDE TEMPORARY FIRE EXTINGUISHERS of Type ABC at locations reasonably effective in extinguishing fires. Comply with NFPA No. 10. Post warning and quick-instructions at each extinguisher, and instruct personnel on proper use. Post fire department call number on each telephone at project site.

PROVIDE TEMPORARY COMMUNICATION SERVICE including local phone service (wired or wireless - 1 line minimum) with a phone handset. Provide either a separate "fax" phone line with fax machine or broadband internet service with a computer configured for internet communications. Allow use of communications equipment for the Owner, Architect and fo sub-contractors, with long-distance costs to be paid for by the party making the calls.

PROVIDE TEMPORARY BARRIERS to prevent public entry to construction areas and to protect existing facilities and adjacent properties from damage from construction

#### PROTECT EXISTING CONSTRUCTION from damage by construction operations.

SCAFFOLDING: Provide all scaffolding and construction aids required, including guard rails lights and platforms necessary for the completion of the Work, and for the protection of the workmen and the public.

ACCESS TO WORK: Repair all damage to existing property, corridors, roads and parking areas by job related vehicles or personnel at no cost to the Owner.

LIMIT PARKING for construction personnel to existing spaces approved for and/or designated for use by the Landlord.

PROGRESS CLEANING: At all times, keep the project site free from accumulation of waste materials or rubbish caused by construction operations. Provide suitable waste receptacles for trash and construction debris, and arrange for transportation and legal disposal of materials off site.

PROVIDE DUMPSTERS AND COLLECT WASTE from construction operations daily. Comply wi requirements of NFPA 241 for removal of combustible waste material and debris. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

FIELD OFFICE: Maintain an area within the leased space for the management of the Work Provide space to review project drawings, for project meetings, and storage of documents

# FIELD ENGINEERING

SURVEY THE EXISTING BUILDING FACILITY prior to the start of construction, to document any existing conditions such as cracks, sags, loose materials or other defects of the existing construction. This record shall serve as a basis for determination of subsequent damage resulting from the Contractor's operations at the site.

VERIFY existing horizontal and vertical control points, grades, elevations, dimensions, and other figures shown on the Drawings. Report inconsistencies to the Architect for resolution before commencing work.

WORK LAYOUT: Establish and maintain chalk-lines and other markers necessary to locate elements of the project, including partitions, casework, electrical and plumbing connections and fixtures. Calculate and measure required dimensions.

# DO NOT SCALE THE DRAWINGS to determine dimensions, unless directed to do so.

ESTABLISH & MAINTAIN new benchmarks and other markers to set lines and levels for the Work as needed to properly locate all elements of the Project. Calculate and measure required dimensions by instrumentation or other appropriate means. Do not scale the drawings to determine dimensions, unless directed by the Architect.

TAKE FIELD MEASUREMENTS as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

# GENERAL PRODUCT REQUIREMENTS

PRODUCT OPTIONS - "OR EQUALS" ALLOWED UNLESS NOTED: When a material, article or piece of equipment is identified in the Drawings or in the Specifications, it is so identified to the purpose of establishing a standard of required function, availability, dimension, color, appearance, quality, performance, operation and maintenance. Unless that product is indicated as "no substitutions" or "no-options" within the Drawings or Specifications, the Contractor may substitute ANY product of other manufacturers or vendors which will perform adequately the duties imposed by the specified item, and which will not cause a delay in the construction schedule due to procurement of such item.

PRODUCTS IN QUANTITIES shall be alike and interchangeable. Where additional amounts of a product are likely to be needed by the Owner at a later date for maintenance and repair, provide standard, domestically produced products which are likely to be available to the Owner at such later date.

SUPPLY PRODUCTS COMPLETE with all standard devices, trim finish, and all accessories indicated in the latest edition of the manufacturer's catalog or brochure published at the date of the award of the Contract. Furnish such items complete with component parts necessary for the obvious and intended use and installation, whether or not descriptions of catalog numbers contain all supplemental information and/or numbers of such components.

EQUIPMENT NAMEPLATES: Provide permanent nameplates on each item of serviceconnected or power operated equipment. Indicate manufacturer, product name, model number, serial number, capacity, speed, rating, and similar essential operating data. Locate nameplates on an easily accessible surface.

LABELS: Locate required labels and stamps on an accessible surface which, in occupied spaces, is not conspicuous.

MANUFACTURER'S INSTRUCTIONS: Whenever products are required to be installed and/or perform in accordance with a specified manufacturer's instruction or procedure, procure, distribute and maintain at the site copies of such information. No allowance or consideration will be made for claimed ignorance as to what a cited standard contains, as each tradesman is considered to be experienced and familiar with the published standards of quality and workmanship for his own trade.

THE OWNER RESERVES THE RIGHT TO REJECT PRODUCT WARRANTIES that in the opinion of the Owner tend to detract from, or confuse interpretation, of the requirements of the Contract

STORE PRODUCTS in accordance with manufacturer's instructions, maintaining sensitive materials within temperatures and humidity ranges required by the manufacturer. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; with ventilation to avoid condensation. Arrange storage to provide access for inspection.

#### GENERAL EXECUTION REQUIREMENTS

INSTALLERS INSPECTION OF SUBSTRATE CONDITIONS: Before installation, inspect substrate material and the conditions under which the Work will be performed. Do not proceed with installation until unsatisfactory conditions have been corrected. Application of a material or equipment item to work installed by others constitutes acceptance of that Work and assumption of responsibility for satisfactory installation. Inspect each item of material or equipment immediately prior to installation. Reject damaged and defective items.

PERFORM INSTALLATION WORK by persons qualified to produce workmanship of specified quality, in accordance with manufacturer's printed installation recommendations and requirements. Install Work during conditions of temperature, humidity, exposure, forecasted weather, and status of the project completion which will ensure the best possible results for each unit of work.

PROVIDE ATTACHMENT AND CONNECTION devices and methods for securing the work properly as it is installed, true to line and level. Provide uniform joint widths in exposed work, organized for best possible visual effect. Refer questionable visual-effect choices to the Architect for final decision. Isolate each unit of work from non-compatible work, as required to prevent deterioration. Make allowance for expansion, contraction, and building movements. Coordinate closing-in of work with required inspections and tests, so as to minimize the necessity of uncovering completed work.

AFTER INSTALLATION, provide coverings to protect installed products from damage from traffic and construction operations, remove when no longer required. Repair and replace damaged items, at no additional cost to the Owner. Additional time required to secure replacements and to make repairs will not be considered as justification for an extension of time to complete the Work.

FINAL CLEANING: just before owner occupancy, clean all surfaces including fixtures and equipment. Polish glass and plumbing fixtures to be without noticeable streaks. Vacuum clean floors and damp wipe walls, fixtures and equipment to be dust-free without stains, films and other distracting substances.

CLEAN THE PROJECT SITE of rubbish, litter and other foreign substances. Broom clean paved areas and remove stains, spills and other foreign deposits. Rake grounds that are neither paved nor planted, to a smooth even-textured surface.

#### SECTION 01 11 00 SUMMARY OF WORK (TENANT FINISH)

THE WORK consists in general of interior tenant-finish construction in an existing tenant space as indicated in the Drawings. Perform all work required for completion of the Project, except as otherwise indicated in the Responsibility Schedule included in the Drawings, and provide the following:

CODES & ORDINANCES: All Work for this project shall conform to all applicable codes, and ordinances and with applicable requirements of the National Fire Protection Association's "Life

COSTS FOR ALL PERMITS, utility hook-up charges, and related expenses shall be included in the Work of the Contract.

CONTRACT TYPE: The Work will be constructed under a single (prime) general construction

COMPLY WITH LANDLORD REQUIREMENTS regarding Construction activities, and pay for construction damage deposit if required. The amount of the deposit will be considered an overhead expense of the Contractor, and is not to be considered as a cost of the Work.

# CONTRACTOR'S USE OF PREMISES:

USE OF EXISTING BUILDING: Limit construction activities to occur within the Project Site, or within other areas designated or approved for use by the Owner or Landlord. If not within the project site, make connections to existing utilities in the most expeditious manner possible. Perform the Work so that it will not interfere with adjacent facilities.

MAINTAIN THE EXISTING BUILDING in a safe and weather tight condition throughout the construction period. Do not install combustible materials above finished ceilings or in any other concealed spaces. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period. Keep public areas such as hallways, stairs, and existing toilet rooms free from accumulation of waste material, rubbish or construction debris.

# PROJECT COORDINATION & ADMINISTRATION:

THE INTENT OF THE CONSTRUCTION DOCUMENTS is to include all items required for completior of the Work. Although the Drawings have been prepared with due care and diligence, design and construction is complex. Consequentially, the Drawings are often diagrammatic - every potential condition or contingency cannot be anticipated or fully indicated, and all components required for complete installation may not be fully indicated.

SCHEDULE AND COORDINATE the Work of the complete Project, including preparation of general coordination drawings, schedules, and control of site utilization, from beginning of construction activities through project close-out.

COORDINATE THE WORK of the various Sections to assure an efficient and orderly sequence of installation of construction elements, with provisions for accommodating items to be installed later. Coordinate space requirements and installation of mechanical and electrical Work which are indicated diagrammatically on the Drawings. Follow routing shown for pipes, ducts, and conduits, as closely as practical; make runs parallel with lines of the building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs. Conceal pipes, conduits and similar elements whenever possible within the new construction, in finished areas.

PRE-CONSTRUCTION MEETING: Meet with the Landlord's designated construction representative before starting construction. Discuss procedures and requirements for site access, work hours, parking, deliveries and receiving, debris and waste receptacles, temporary barricade, and construction operations that may be offensive.

MAINTENANCE OF CONSTRUCTION DOCUMENTS: Maintain at the Project Site a "Record Set" o Construction Documents. In addition, maintain copies of the following related drawings or documents prepared by others: Construction Requirements of the Landlord (when applicable)

Signage shop drawings prepared by the Signage Contractor, and Sprinkler shop drawings (when applicable) DO NOT construct or install any portion of the Work related to these drawings at any time without such drawings being available at the site.

Casework shop drawings prepared by the Casework fabricator

MARK REVISIONS made during construction on the Record Set of Documents with colored pencil - do not conceal any Work before revisions have been recorded. Note actual routing of under-slab plumbing and utility lines, if different from design drawings.

#### SECTION 01 23 00 - ALTERNATIVES

PROVIDE alternative bid proposals to be added to or deducted from the amount of the Base Bid if the corresponding change in scope is accepted by the Owner, in accordance with requirements listed herein. Include within the alternative bid all costs, including materials, labor, equipment and fees required to complete the work item.

COORDINATE related Work and modify or adjust adjacent Work as necessary to ensure that Work affected by each accepted alternate is complete and fully integrated into the Project. Immediately following Contract award, prepare and distribute to each party involved, notification of the status of each alternate. Indicate whether alternates have been accepted, rejected or deferred for consideration at a later date. Include a complete description of negotiated modifications to alternates. Include as part of each alternate, miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the alternate.

ALTERNATE NO. 1: PROVIDE PERFORMANCE & LABOR/MATERIAL PAYMENT BONDS: Furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder. Bonds may be obtained through usual sources and the cost thereof shall be included in the Contract Sum. The amount of each bond shall be equal to one hundred percent (100 %) of the Contract Sum. Deliver bonds to the Owner not later than three days following the date the Agreement is entered into, or if the Work is to be commenced prior thereto in response to a letter of intent, the Contractor shall, prior to the commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished."

#### SECTION 01 26 13 - REQUESTS FOR INTERPETATIONS (RFI's)

SUBMIT REQUEST FOR INTERPRETATION (RFI's) after review of the Contract Documents and the field conditions immediately on discovery of the need for a clarification. Include a detailed description of problem encountered, together with recommendations for changing the Contract Documents. Submit requests on CSI Form 13.2A - "Request for Interpretation" or equivalent form approved for use in advance by the Architect. Submit RFI's only from the Contractor - RFI's from subcontractors or suppliers must be forwarded to, reviewed by, approved by, and submitted directly from the Contractor.

SUBMIT RFI'S ONLY AFTER a thorough review of ALL applicable Contract Documents and the field-conditions, and ONLY if the Contractor is still not able to resolve the problem or clarify the issue based on the information contained therein.

RESPONSIBILITY FOR ADDITIONAL COSTS: If the information requested by the Contractor is apparent from field observations, or is in fact contained within the Contract Documents, or is reasonably inferable from either, the Contractor will be responsible to the Owner for all reasonable costs expended by the Architect and/or the professional Consultants for the Additional Services required to provide such information.

#### RESPONSE TO RFI'S IS NOT AN AUTHORIZATION to proceed with additional or extra Work. **SECTION 01 29 00 - PAYMENT PROCEDURES**

15 DAYS (MINIMUM) PRIOR TO SUBMITTAL OF THE INITIAL APPLICATION FOR PAYMENT, the following items shall be submitted: (1) listing of subcontractors and principal suppliers and fabricators, (2) the progress schedule, (3) preliminary schedule of values, (4) performance and/or payment bonds, if required, and (5) copies of acquired building permits for performance of the

SCHEDULE OF VALUES: Provide a breakdown of the Contract Sum, as required by the General Conditions. Coordinate preparation and correlate line item breakdown with Specification Sections, and as required to facilitate continued evaluation of payment requests and progress reports. Break down principal subcontract amounts into several line items, to the approval of the Owner and/or Architect. Provide a separate line-item for each allowance, or for each unit-cost allowance as a product of the unit cost multiplied by the measured quantity. Indicate temporary facilities or other major cost items that are not a direct cost of actual work-in-place as separate line items. Show overhead and profit as a separate line item amount - to facilitate review of lienwaivers from sub-contractors and material suppliers. Round-off individual amounts to the nearest whole dollar, but with the total equal to the Contract Sum. Arrange the schedule with columns to indicate the generic name of the item, related specification sections, the subcontractor, supplier, manufacturer or fabricator, change orders (numbers) which have affected the value, the dollar value of the item, and the percentage of the Contract Sum to the nearest onehundredth percent and adjusted to total 100 percent.

PRIOR TO INITIAL PAYMENT APPLICATION SUBMITTAL, the following are required: List of subcontractors.

Schedule of Values.

Contractor's Construction Schedule Products list.

Schedule of unit prices. Submittals Schedule.

List of Contractor's staff assignments, and principal consultants. Copies of all applicable building permits (except for those obtained directly by the Owner) Copies of authorizations and licenses from authorities having jurisdiction for performance of the

# Initial progress report.

Report of preconstruction conference. Certificates of Insurance (AIA G705) and evidence that Contractor's insurance has been Performance and payment bonds (if required).

APPLICATIONS FOR PAYMENTS: Use AIA Document G702 and AIA Document G703 Continuation Sheets or an equivalent document approved in advance. Complete every entry on the form, matching data on the Schedule of Values and correlated with the Contractor's Construction Schedule - using updated schedules if revisions have been approved. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Each Application shall be consistent with previous applications. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements. Include amounts of Change Orders and Construction Change Directives as

separate line-items. TIMING: Unless otherwise noted in the Agreement Form, the required date for submittal will be the tenth (10th) day of each month.

TIME PERIOD: Unless otherwise noted in the Agreement Form, the time-period covered by each Application for Payment starts on the first (1st) day of a month and ends on the last day of the

SUBMIT an email and deliver THREE (3) notarized originals for receipt within 24 hours of the email

regarding the Application, with an updated Schedule-of-Values and Construction Progress Schedule (if applicable) and partial lien-waivers (if required by Owner). PAYMENT APPLICATION AT SUBSTANTIAL COMPLETION: After the Certificate of Substantial Completion is issued, submit an Application for Payment showing 100 percent completion.

ATTACHMENTS: Include a transmittal letter listing attachment and appropriate information

Provide a copy of the Certificate of Occupancy from the applicable AHJ indicating that the Project can be occupied by the Owner, and a current accounting statement showing all changes to the Contract Sum. INCLUDE WITH THE FINAL PAYMENT APPLICATION the following: Unconditional lien-releases for all subcontractors and material suppliers

Insurance certificates for products and completed operations Proof that all taxes, fees, and similar obligations were paid. Updated final statement, accounting for final changes to the Contract Sum. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims." AIA Document G706A, "Contractor's Affidavit of Release of Liens."

AIA Document G707, "Consent of Surety to Final Payment." (if Bonds are provided)

Evidence of completion of Project closeout requirements.

Final, liquidated damages settlement statement.

Evidence that claims have been settled. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.

PARTIAL LIEN WAIVERS: At any time throughout the project, and concurrent with applications for Payment, the Owner reserves the right to require submittal of partial lien waivers indicating that lien rights are "unconditionally released" for all amounts previously paid by the Owner (less any retainage amounts), and "conditionally released" or contingent only upon receipt and bank clearance of the current payment-application amounts then due. The Owner reserves the right to designate which entities involved in the Work must submit waivers. Submit all waivers on the 1990 Edition of the "Waiver and Release of Lien" form as issued by the Construction Industry Affairs Council of Greater Kansas City Inc (CIAC) or other form provided or approved by the Owner, fully executed in a manner acceptable to Owner.

SUBMIT FINAL, UNCONDITIONAL LIEN RELEASES from all sub-contractors or material suppliers, with the application for Final Payment, together with the Contractor's final, conditional lien-release contingent only upon receipt and bank clearance of the final-payment amount.

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited. © KLOVER ARCHITECTS, INC.

THE ARCHITECT DISCLAIMS responsibility for the existing building

structure, site conditions, existing construction elements, or any

documents, drawings or other instruments used for any part of this

Project which do not bear the Architect's seal. The Architect's services are undertaken only in the interest of the Project Owner. No obligation is assumed by the Architect for the benefit of any other entity. RELATED DOCUMENTS: This Drawing is a single component of an integrated set of Construction Documents. General and Supplementary Conditions of the Contract, General Requirements, Specifications and other Drawings may affect the Work described. Failure to review and integrate the design intent of the whole of the Construction Documents does not relieve the Contractor from providing a complete Project. COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. VERIFY ACTUAL CONDITIONS and dimensions prior to construction. Commencement of work constitutes verification and acceptance of all existing conditions. Application of a material or equipment item to Work installed by others constitutes acceptance of that Work, and assumption of responsibility for satisfactory installation, DIMENSIONS SHOWN are to finish face of a material unless otherwise indicated.

CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless

otherwise directed.

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**project** number

**drawing** issuance

Description:

**drawing** revisions

DATE SIGNED: 6/16/2023 8:38:06 AM

**SPECIFICATIONS** 

SCHEDULE AND COORDINATE the Work of the complete Project, including preparation of general coordination drawings, schedules, and control of site utilization, from beginning of construction activities through project close-out.

COORDINATE THE CONSTRUCTION WORK to assure an efficient and orderly sequence of installation of the various construction elements, with provisions for accommodating items to be installed later. Coordinate space requirements and installation of mechanical and electrical Work. Follow routing shown for pipes, ducts, and conduits, as closely as practical; make runs parallel with lines of the building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs. Conceal pipes, conduits and similar elements whenever possible within the new construction, in finished areas.

PRE-CONSTRUCTION MEETING: Meet with the Owner's and/or Landlord/Developer's construction representatives before starting construction. Discuss procedures and requirements for site access, work hours, parking, deliveries and receiving, debris and waste receptacles, temporary barricade, and construction operations that may be offensive.

MAINTENANCE OF CONSTRUCTION DOCUMENTS: Maintain at the Project Site a "Record Set" of Construction Documents. In addition, maintain copies of the the following related drawings or documents prepared by others:

Construction Requirements of the Landlord (if applicable)
Casework shop drawings prepared by the Casework fabricator
Food Service Equipment layout and rough-in drawings

Signage shop drawings prepared by the Signage Contractor, and

Sprinkler and fire-alarm system shop drawings (if applicable)
DO NOT construct or install any portion of the Work related to these drawings at any time without such drawings being available at the site.

MARK REVISIONS made during construction on the Record Set of Documents with colored pencil - do not conceal any Work before revisions have been recorded. Note actual routing or underslab plumbing and utility lines, if different from design drawings.

SECTION 01 32 16 - CONSTRUCTION & SUBMITTAL SCHEDULE

CONSTRUCTION SCHEDULE: Prepare and submit a bar-chart type progress schedule for the entire Project within fourteen (14) calendar days after award of Contract. Provide a separate line-item for each Work item listed in the Schedule of Values. Include appropriate time for project mobilization, procurement of products, review and approval of shop drawings, fabrication, installation, testing, and final cleanup. Identify each calendar day throughout the schedule. Highlight "critical path" elements of the schedule that are important to complete the Work on time. Correlate the schedule with critical "milestone dates" including but not limited to the Notice to Proceed, Substantial Completion, and the Final Completion dates.

SUBMITTAL SCHEDULE: Submit a schedule of planned submittals, arranged in chronological order by dates required by the Construction Schedule. Coordinate the Submittal Schedule with the Construction Schedule above, and include time required for review and re-submittal (if necessary) when establishing dates. Submit the Submittal Schedule concurrently with the Construction Schedule above - identifying any submittals required during the first sixty (60) calendar days of construction. List any submittals that are required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication. Failure to provide a Submittal Schedule relives the Architect and/or Engineer of responsibility for timely submittal review..

#### **SECTION 01 33 00 - SUBMITTAL PROCEDURES**

COORDINATE each submittal with other submittals and related activities that require sequential activity. Group transmittal of different kinds of submittals for the same unit of work so that information is available for checking each item when it is received.

CONSECUTIVELY NUMBER all submittals. When an item is resubmitted for any reason, transmit under a new letter of transmittal and with a new transmittal number.

CONTENT: All submittals shall contain the date of submission; the Project Title; the Contractor's name, the name of the sub-contractor, supplier or manufacturer, as applicable; identification of the product being submitted; clear identification of field dimensions, verified by the Contractor; relation to adjacent or critical features of the Work; applicable standards; identification of deviations from the Contract Documents; and a clear space for the Contractor's and the Architect's review stamps.

STAMP & APPROVE ALL shop drawings, product data and samples with the Contractor's approval stamp, dated, and initialed or signed, certifying approval of the submittal, verification of the product being submitted, and verification that the product submitted complies with the requirements of the Contract Documents. Failure to properly verify conformance and conditions at the job site will not relieve the Contractor of the responsibility to properly install the Work.

ELECTRONIC PRODUCT-DATA SUBMITTALS: In order to conserve paper, limit delivery/courier expenses, and to expedite the review process, forward electronic Product-Data submittals. Maintain one (1) set of printed, approved Product-Data submittals at the Project Site, complete with applicable review and approval comments.

SHOP DRAWING SUBMITTALS: Submit one (1) reproducible original, plus three (3) original copies of all submittals (to be retained by the Owner and the Architect, in addition to electronic submittals. The review comments of the Architect will be shown on the reproducible original returned to the Contractor. Make and distribute as many copies as necessary for records, coordination, construction operations, and for incorporation into the Operations and Maintenance Manual.

QUANTITY OF SAMPLES TO BE SUBMITTED: Submit three (3) samples of products when required by the Contract Documents, for return of one (1) sample to the Contractor. Costs for submittal and return of samples shall be paid by the Contractor. Approval of samples does not imply acceptance of the finished in-place product. Color, texture, and patterns shall conform to the samples submitted and if the range of texture, color or pattern varies, the work will be rejected.

PROCESSING TIME: Allow time for submittal review, and time for re-submittals, within the Construction Schedule. Allow additional time if processing must be delayed to permit coordination with subsequent submittals - until that information is submitted. If submittals are incomplete, the Architect will advise the Contractor as soon as possible, and the processing time will start when the additional information is received. No extension of the Contract Time will be authorized because of failure to transmit submittals in advance of the Work to permit

ALLOW 10 BUSINESS DAYS for initial review of each submittal, and for processing each resubmittal.

ARCHITECT'S REVIEW: Review by the Architect is limited to compliance with the design intent only, and does not relieve the Contractor from responsibility for errors which may exist in the submitted data.

# SECTION 01 45 00 - QUALITY CONTROL

APPLICABILITY: Required inspection and testing services are intended to assist in the determination of probable compliance of the Work with requirements specified or indicated. The requirements of this section relate primarily to customized fabrication and installation procedures, not to the production of standard products. Quality control services include inspections and tests and related actions including reports, and professional recommendations. These services do not include Contract enforcement activities performed directly by the Architect.

PROVIDE THE SERVICES of an independent Testing and Inspection Laboratory to verify compliance of the Work with the Contract Documents. Specific tests are required in other applicable Sections of these specifications and include, but are not necessarily limited to the following:

# FILL MATERIALS testing and approval

STRUCTURAL STEEL connections and weld inspections

CONTINUOUS OBSERVATION & TESTING during placement and compaction of fills CONCRETE MIX DESIGN testing and approval CONCRETE MATERIALS TESTING during placement

PROVIDE SPECIAL INSPECTIONS and periodic reports in accordance with requirements of building code officials. The "special inspector" will be responsible for submitting quality control test reports prepared the testing laboratory required above, to building officials, if necessary. Special inspections required include, but may not necessarily be limited to the following: REINFORCING STEEL conformance inspection, prior to form closing or concrete delivery (does not apply to site-work concrete)

CONTINUOUS WELDING INSPECTION, for on-site structural welding

SHOP CERTIFICATION: Special inspections are not required when the work is done on the premises of a fabricator registered and approved to perform such work without special inspections, in accordance with requirements of the building code.

THE CONTRACTOR IS NOT RELIEVED of responsibility for compliance with all specified requirements of the Contract Documents by providing these services.

THE OWNER RESERVES THE RIGHT to retain its own independent inspection and testing agency to verify and confirm the Work included herein. Costs for such tests not conforming with the requirements of the Contract Documents will be deducted from the final contract sum.

RE-TEST RESPONSIBILITY: The Contractor shall provide all re-tests and repeat-inspections for items not meeting the requirements of the Contract Documents, at no additional cost to the Owner. Re-testing and re-inspection shall continue until satisfactory results are obtained.

QUALIFICATIONS OF TESTING LABORATORY: Provide services of an independent laboratory acceptable to the Architect, which has been pre-qualified by the American Council of Independent Laboratories to comply with their: "Recommended Requirements for Independent Laboratory Qualification", and which is recognized in the industry as specialized in the types of inspections and tests to be performed.

QUALIFICATIONS OF SPECIAL INSPECTOR: Provide services of an independent professional Engineer, acceptable to the Architect, licensed in the applicable state in which the project is located, and approved for use by local authorities having jurisdiction.

SCHEDULE AND COORDINATE timing of tests required, to comply with the progress of the Work When changes of construction schedule are necessary, notify testing laboratory in advance of operations for reassignment of required personnel.

FACILITATE inspections and tests, cooperate with laboratory personnel, and provide adequate quantities of representative samples of materials to be tested. Provide such auxiliary services as are reasonably requested, including, but not necessarily limited to taking samples or assistance with taking samples, delivery of samples to testing laboratories, and security and protection of samples and test equipment at the project site.

TEST METHODS shall comply with all pertinent codes and regulations, and with applicable standards of the American Society for Testing Materials (ASTM).

REPORT DATA: Written reports of each inspection, test or similar service shall include the name of inspection agency or testing laboratory, the dates and locations tests, inspections, or samples taken, the name(s) of individuals making the inspection or test, a designation of the work and/or test method, the complete inspection or test data and test or inspection results, interpretation of the test results, notation of significant conditions at the time of sample-taking and testing, comments or professional opinion as to whether inspected or tested work complies with requirements of the contract documents, and recommendations on retesting or re-inspection (if applicable).

UPON COMPLETION of inspection, testing, sample-taking and similar services, repair damaged work and restore substrates and finishes to eliminate deficiencies, including deficiencies in the visual qualities of exposed finishes. Comply with other sections of these Specifications for Cutting and Patching. Protect work exposed by or for quality control service activities, and protect repaired work.

REMOVE AND REPLACE non-complying materials, and re-test until satisfactory tests are accomplished.

## SECTION 01 50 00 - TEMPORARY FACILITIES/CONTROLS

INCLUDE ALL COSTS for temporary utilities, temporary facilities and temporary controls within the Contract Sum.

TEMPORARY UTILITIES:

CONNECT to existing systems at the project site to provide for temporary water, electrical power, lighting and heat for construction operations, unless otherwise indicated.

TEMPORARY ELECTRICAL POWER: Provide a grounded power distribution system with overload protection, sufficient to accommodate construction operations requiring power, use of power tools, electrical heating, lighting, and start-up testing of permanent electric-powered equipment prior to its permanent connection to electrical system. Locate multiple outlets (minimum of 4-gang) spaced so that the entire area of construction can be reached by power tools on a single extension cord of 50' maximum length.

TEMPORARY LIGHTING: Provide temporary lighting fixtures in areas where ceilings and existing fixtures are removed. Re-use existing lighting fixtures when possible and suspend from the existing structure. Remove temporary lighting fixtures when permanent fixtures are operational.

SANITARY FACILITIES: Provide on-site toilet facilities including temporary toilets, wash facilities and drinking water fixtures for the use of all workmen on the job site. Provide separate facilities for male and female personnel when both sexes are working at project site. Comply with all applicable codes and regulations and health department requirements for the type, number, location, operation and maintenance of fixtures and facilities. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility. Provide covered waste containers for used material. Install self-contained toilet units.

EXISTING SANITARY FACILITIES may not be used by construction personnel.

TEMPORARY HEAT AND VENTILATION shall be provided to maintain adequate environmental conditions to facilitate progress of the Work, to meet specified minimum conditions for the installation and proper curing of materials, to protect materials and finishes from damage due to temperature or humidity, and to prevent hazardous accumulations of dust, fumes, vapors or gases. Once new systems are operational, they may be used for temporary heating and cooling only if: (1) all registers diffusers and filters are cleaned before substantial completion, and (2) warranty periods remain unchanged, starting from the date of Substantial Completion.

TEMPORARY FIRE EXTINGUISHERS: Provide Type ABC extinguishers at locations reasonably effective in extinguishing fires, by personnel at project site. Comply with NFPA No. 10. Post warning and quick-instructions at each extinguisher, and instruct personnel on proper use. Post fire department call number on each telephone at project site.

TEMPORARY COMMUNICATIONS SERVICE & EQUIPMENT: Provide temporary local (wired or wireless) telephone service (1 line minimum) with a phone handset. Provide either a separate "fax" phone line with fax machine or broadband internet service with a computer configured for internet communications. Allow use of communications equipment to the Owner, Architect and for sub-contractors, with long-distance phone calls to be paid for by the party making the calls.

TEMPORARY CONSTRUCTION FACILITIES & CONTROLS:

BARRIERS: Provide barriers required to prevent public entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.

SCAFFOLDING: Provide all scaffolding and construction aids required, including guard rails, lights and platforms necessary for the completion of the Work, and for the protection of the workmen and the public.

ACCESS: Utilize the existing back corridor for access to the project site from the exterior of the mall. Repair all damage to existing property, corridors, roads and parking areas by job related vehicles or personnel at no cost to the Owner.

PARKING for construction personnel shall be limited to existing spaces approved for and/or designated for use by the Landlord.

PROGRESS CLEANING: At all times, keep the project site free from accumulation of waste materials or rubbish caused by construction operations. Provide suitable waste receptacles for trash and construction debris, and arrange for transportation and legal disposal of materials

WASTE DISPOSAL: Provide dumpsters and collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

FIELD OFFICE: Maintain an area within the leased space for the management of the Work. Provide space to review project drawings, for project meetings, and storage of documents.

#### SECTION 01 60 00 - PRODUCT REQUIREMENTS

PRODUCT OPTIONS - "OR EQUAL" SUBSTITUTIONS PERMITTED: When a material, article, system or piece of equipment is identified in the Drawings or Specifications, it is identified for the purpose of establishing a standard of required function, availability, physical properties, dimension, color, appearance, quality, in-service performance, operation and maintenance. Unless that product is indicated as "no substitutions" or "no-options" within the Construction Documents, the Contractor may substitute ANY product of other manufacturers or vendors which will perform adequately the duties imposed by the specified item, and which will not cause a delay in the construction schedule due to procurement of such item. Substituted products not meeting the intent of the Construction Documents may be rejected by the Architect.

### SECTION 01 71 23 - FIELD ENGINEERING

SURVEY THE EXISTING BUILDING FACILITY prior to the start of construction, to document any existing conditions such as cracks, sags, loose materials or other defects of the existing construction. This record shall serve as a basis for determination of subsequent damage resulting from the Contractor's operations at the site.

VERIFY existing horizontal and vertical control points, grades, elevations, dimensions, and other figures shown on the Drawings. Report inconsistencies to the Architect for resolution before commencing work.

WORK LAYOUT: Establish and maintain chalk-lines and other markers necessary to locate all elements of the project, including partitions, casework, electrical and plumbing connections and fixtures. Calculate and measure required dimensions.

DO NOT SCALE THE DRAWINGS to determine dimensions, unless directed to do so.

ESTABLISH & MAINTAIN new benchmarks and other markers to set lines and levels for the Work as needed to properly locate all elements of the Project. Calculate and measure required dimensions by instrumentation or other appropriate means. Do not scale the drawings to determine dimensions, unless directed by the Architect.

TAKE FIELD MEASUREMENTS as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

#### **SECTION 01 73 00 - EXECUTION REQUIREMENTS**

INSTALLERS INSPECTION OF SUBSTRATE CONDITIONS: Before installation, inspect substrate material and the conditions under which the Work will be performed, report unsatisfactory condition to the Architect. Do not proceed until unsatisfactory conditions have been corrected. Application of a material or equipment item to work installed by others constitutes acceptance of that Work and assumption of responsibility for satisfactory installation.

INSPECT each item of material or equipment immediately prior to installation. Reject damaged and defective items.

PERFORM INSTALLATION WORK by persons qualified to produce workmanship of specified quality, in accordance with manufacturer's printed instructions. Install Work during conditions of temperature, humidity, exposure, forecasted weather, and status of the project completion which will ensure the best possible results for each unit of work.

COMPLY WITH MANUFACTURER'S installation recommendations and requirements, as applicable.

 ${\tt ISOLATE\ each\ unit\ of\ work\ from\ non-compatible\ work,\ as\ required\ to\ prevent\ deterioration.}$ 

MAKE ALLOWANCE for expansion, contraction, and building movements.

PROVIDE ATTACHMENT AND CONNECTION devices and methods for securing the work properly as it is installed, true to line and level. Provide uniform joint widths in exposed work, organized for best possible visual effect. Refer questionable visual-effect choices to the Architect for final decision.

COORDINATE CLOSING-IN of work with required inspections and tests, so as to minimize the necessity of uncovering completed work.

PROTECTION: After installation, provide coverings to protect installed products from damage from traffic and construction operations, remove when no longer required.

REPAIR AND REPLACE damaged items, at no additional cost to the Owner. Additional time required to secure replacements and to make repairs will not be considered to justify an extension of time to complete the Work.

# SECTION 01 73 29 - CUTTING & PATCHING

DEFINITION: "Cutting and patching" is hereby defined to include cutting into existing construction elements to provide for the installation or performance of other work and the subsequent fitting and patching required to restore surfaces to their original condition. "Cutting and patching" is performed for coordination of the Work, to uncover Work for access or inspection, to obtain samples for testing, to permit alterations to be performed, or for other similar purposes.

DO NOT cut and patch structural elements in a manner that would reduce their load-carrying capacity or load-deflection ratio. Do not cut and patch operating elements or safety related components in a manner that would result in reducing their capacity to perform as intended, or result in increased maintenance, or decreased operational life or safety. Do not cut and patch construction exposed on the exterior or in occupied spaces, in a manner that would, in the Architect's opinion, reduce the building's aesthetic qualities, or result in visual evidence of cutting and patching. Remove and replace Work cut and patched in a visually unsatisfactory manner.

"CUTTING AND PATCHING" DOES NOT INCLUDE work performed during the manufacturing of products. It does not include the drilling of holes for installation of fasteners or similar operations. Demolition of selected portions of the building for alterations is included in Division-2 Specification Sections.

USE MATERIALS that are identical to existing materials. If identical materials are not available or cannot be used where exposed surfaces are involved, use materials that match existing adjacent surfaces to the fullest extent possible with regard to visual effect. Use materials whose installed performance will equal or surpass that of existing materials.

INSPECTION: Before cutting existing surfaces, examine surfaces to be cut and patched and conditions under which cutting and patching is to be performed. Take corrective action before proceeding, if unsafe or unsatisfactory conditions are encountered.

PROVIDE TEMPORARY SUPPORT AND PROTECTION of Work to be cut. Protect existing construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of the Project that might be exposed during cutting and patching operations.

TAKE ALL PRECAUTIONS necessary to avoid cutting existing pipe, conduit or ductwork

made to bypass them. Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay.

CUT existing construction to provide for installation of other components or performance of other construction activities and the subsequent fitting and patching required to restore

surfaces to their original condition. Cut existing construction using methods least likely to

damage elements to be retained or adjoining construction.

serving the building, but scheduled to be removed or relocated until provisions have been

IN GENERAL, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut holes and slots neatly to size required with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use. To avoid marring existing finished surfaces, cut or drill from the exposed or finished side into concealed surfaces. Cut through concrete and masonry using a cutting machine such as a carborundum saw or diamond core drill

BY-PASS UTILITY SERVICES such as pipe or conduit, before cutting, where services are shown or required to be removed, relocated or abandoned. Cut-off pipe or conduit in walls or partitions to be removed. Cap, valve or plug and seal the remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after by-passing and cutting.

PATCH with durable seams that are as invisible as possible. Comply with specified tolerances. Where feasible, inspect and test patched areas to demonstrate integrity of the installation. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.

WHERE REMOVAL OF WALLS or partitions extends one finished area into another, patch and repair floor and wall surfaces in the new space to provide an even surface of uniform color and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary to achieve uniform color and appearance.

PAINTED SURFACES: Where patching occurs in a smooth painted surface, extend final paint coat over entire unbroken containing the patch, after the patched area has received primer and second coat.

AT EXISTING CEILINGS, patch, repair or rehang as necessary to provide an even plane surface of uniform appearance.

THOROUGHLY CLEAN all areas and spaces where cutting and patching is performed or used as access. Remove completely paint, mortar, oils, putty and items of similar nature. Thoroughly clean piping, conduit and similar features before painting or other finishing is applied. Restore damaged pipe covering to its original condition.

#### SECTION 01 77 00 - CLOSEOUT PROCEDURES

FINAL CLEANING:

PRIOR TO OWNER OCCUPANCY, clean all surfaces including fixtures and equipment, for use by the Owner. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit of work to the condition expected from a normal, commercial building cleaning and maintenance program. Comply with the manufacturer's instructions for operations.

CLEAN TRANSPARENT MATERIALS, including mirrors and glass in doors and windows, to a polished condition. Remove putty and other substances which are noticeable as vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.

CLEAN EXPOSED EXTERIOR and interior hard-surfaced finishes to a dust-free condition, free of dust, stains, films and similar noticeable distracting substances. Restore reflective surfaces to their original reflective condition. Leave concrete floors broom clean. Vacuum carpeted surfaces.

MECHANICAL AND ELECTRICAL EQUIPMENT shall be wiped clean. Remove excess lubrication and other substances. Clean plumbing fixtures to a sanitary condition. Clean light fixtures and lamps.

CLEAN THE PROJECT SITE, including landscape development areas, of rubbish, litter and other foreign substances. Sweep paved areas to a broom clean condition; remove stains, spills and other foreign deposits. Rake grounds that are neither paved nor planted, to a smooth even-textured surface.

SUBSTANTIAL COMPLETION PROCEDURES:

AFTER final cleaning operations have been completed, and when the Project is ready for owner occupancy, obtain an occupancy permit on behalf of the Owner, and approval by any other governmental authorities having jurisdiction over the Project.

SUBMIT a written request for inspection, stating that the Work is Substantially Complete and ready for the Owner's beneficial use and occupancy. Accompany notice with a listing of all items to be completed or corrected.

OWNER'S OR ARCHITECT'S ACTION: Following observation of the Work, the Owner or Architect will either prepare the certificate of substantial completion, or will advise the Contractor of work which must be performed before the certificate will be issued. Results of the observation report will form the initial "punch-list" for final acceptance.

PREREQUISITES TO FINAL COMPLETION:

COMPLETE ALL WORK ITEMS as expeditiously as possible, providing labor at times when the facility is not in operation, if necessary. Coordinate with the Owner's representative and perform the Work so that it will not interfere with the Owner's operations.

COMPLETE FINAL TESTING of systems, and instruct Owner's personnel in the operation, adjustment, maintenance of all mechanical, plumbing, fire protection, monitoring and electrical systems.

site, along with construction tools, field office, mock-ups and similar elements.

TOUCH-UP AND REPAIR or restore marred exposed finishes. Deliver spare parts, tools, extra stock of materials and similar physical items.

REMOVE TEMPORARY FACILITIES and controls, and temporary utility services from the project

INSTRUCTION OF OWNER'S PERSONNEL: Arrange for each installer of operating equipment and other work that requires regular or continuing maintenance, to meet at the site with the Owner's personnel to provide necessary basic instructions in the proper operation and maintenance of the entire Work. Where installers are not experienced in the required procedures, include instruction by the manufacturer's representatives.

OPERATION AND MAINTENANCE DATA: Include the following types of information in operation and maintenance manuals: emergency instructions, spare parts listings, copies of warranties, wiring diagrams, inspection procedures, shop drawings and product data.

FINAL CLOSEOUT SUBMITTALS:

ELECTRONIC CLOSEOUT SUBMITTALS: In addition to 1 set of paper originals of the documents indicated below, provide Operation and Maintenance Data, Warranties, and the list of subcontractors and material suppliers, in electronic media (CD) at close-out. Provide jewel-case covers and label each CD and cover with the printed title "OPERATION AND MAINTENANCE MANUAL," Project name, and subject matter of contents, as appropriate. Provide two (2) sets of electronic documents.

SUBMIT FINAL OCCUPANCY PERMIT, and other legal releases necessary for the Owner complete and unrestricted use.

SUBMIT WARRANTIES, guarantees, maintenance bonds, maintenance agreements, final product certifications and similar documents.

settlement survey, extra copies of drawings and specifications, and similar final record information.

SUBMIT A FINAL LISTING of all sub-contractors and material suppliers used on the project

SUBMIT MARKED-UP RECORD DRAWINGS, operations and maintenance manuals, damage or

SUBMIT AN UPDATED FINAL STATEMENT accounting for additional changes (additions and deductions) to the Contract Sum. Identify amounts for change orders, liquidated damages (addition or deduction), deductions for uncorrected work, deductions for reinspection payments, and previous payments.

SUBMIT FINAL PAYMENT REQUEST with final unconditional lien releases from all sub-contractors and material suppliers, and other supporting documentation not previously submitted or accepted.

SUBMIT FINAL LIEN RELEASE, contingent only upon receipt and bank clearance of final payment amount.

SUBMIT THE ARCHITECT'S PUNCH LIST(s) with the Contractor's signed statement indicating that all items have been completed or otherwise resolved for acceptance.

SUBMIT EVIDENCE OF CONTINUING INSURANCE COVERAGE complying with requirement of the Contract Documents. Include certificates of insurance for products and completed operations when required.

SUBMIT WRITTEN CERTIFICATION that: (1) the Contract Documents have been reviewed, (2) the Work has been inspected for compliance with the Contract Documents, (3) the Work has been completed in accordance with the Contract Documents, (4) equipment and systems have been tested in the presence of the Owner's representative and are operational, and (5) the Work is completed and ready for final inspection.

OWNER'S OR ARCHITECT'S ACTION: Following final inspection, the Owner or Architect will either prepare the certificate of final acceptance, or will advise the Contractor of work which must be performed before the certificate will be issued.

REINSPECTION FEES: Should the Architect perform re-inspections (for either Substantial Completion or for Final Completion) due to the failure of the Work to comply with the claims of status of completion made by the Contractor, the Owner will compensate the Architect for such additional services and will deduct the amount of such compensation from the final payment to the Contractor.

#### **SECTION 02 41 19 - SELECTIVE DEMOLITION**

WORK INCLUDES removal and legal disposal of existing interior and exterior construction items specified to be removed herein, noted to be removed within the Drawings, or otherwise required to be removed to facilitate construction activities. The work includes, but is not necessarily limited to removal of the following construction elements that are not utilized in the finished construction project.

#### PROTECTION:

PROVIDE TEMPORARY BARRICADES and other forms of protection as required to protect other tenants, the Owner's personnel or the public from injury due to demolition work.

EXISTING TO REMAIN: Protect construction indicated or intended to remain against damage and soiling during selective demolition. Items may be removed to a suitable, protected storage location during selective demolition and then cleaned and reinstalled in their original locations.

OHALITY ASSURANCE

TRAFFIC: Conduct selective demolition operations and debris removal in a manner to ensure minimum interference with other adjacent occupied or used facilities.

DEMOLITION FIRM QUALIFICATIONS: Engage an experienced firm that has successfully completed selective demolition Work similar to that indicated for this Project.

REGULATORY REQUIREMENTS: Comply with governing EPA notification regulations before starting selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

#### PROJECT CONDITIONS

EXISTING CONDITIONS: The Owner assumes no responsibility for the actual condition of items or building elements intended to be demolished. Construction Documents of the existing structure are available upon written request.

THE OWNER will occupy portions of the building immediately adjacent to selective demolition area. Conduct selective demolition so that their operations will not be disrupted. Provide not less than 94 hours' notice to the Owner of activities that will affect Owner's operations.

CONDITIONS EXISTING at time of inspection for bidding purpose will be maintained by the Owner to the greatest extent practical.

ASBESTOS: It is not anticipated that asbestos will be encountered in the Work. If any materials suspected of containing asbestos are encountered, do not disturb the materials. Immediately notify the Architect and the Owner.

HEDULING

ARRANGE SELECTIVE DEMOLITION schedule so as not to interfere with Owner's or other tenant=s on-site operations.

REPAIR MATERIALS

PROVIDE REPAIR MATERIALS identical to existing materials. Where identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible. Use materials whose installed performance equals or surpasses that of existing materials.

# EXAMINATION

EXAMINE areas and conditions under which the Work of this Section will be performed. Do not proceed if conditions exist that are detrimental to proper and timely completion.

Commencement of this Work will be construed as acceptance of existing conditions or prior work by others, and assumption of responsibility for satisfactory completion.

VERIFY THAT UTILITIES have been disconnected and capped.

SURVEY EXISTING CONDITIONS and correlate with requirements indicated to determine extent of selective demolition required.

IF UNANTICIPATED mechanical, electrical, or structural elements which conflict with the intended function of design are encountered, investigate and measure both nature and extent of the conflict. Submit report to the Architect in written, accurate detail. Pending receipt of directive from the Architect, rearrange selective demolition schedule as necessary to continue overall job progress without delay.

SURVEY THE CONDITION OF THE BUILDING to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of the structure or adjacent structures during selective demolition. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

# JTILITY SERVICES

MAINTAIN EXISTING UTILITIES and protect them against damage during selective demolition operations.

DO NOT INTERRUPT EXISTING UTILITIES serving occupied or operating facilities, except when authorized in writing by The Owner and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to The Owner and to governing authorities

# PREPARATION

CONDUCT DEMOLITION OPERATIONS and remove debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities

DO NOT CLOSE OR OBSTRUCT STREETS, walks, or other adjacent occupied or used facilities

without permission from the Owner, and if required, from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY to people and damage to

demolition area. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction

PROVIDE TEMPORARY WEATHER PROTECTION, during interval between demolition and

removal of existing construction, on exterior surfaces to ensure that no water leakage or

damage occurs to structure or interior areas.

adjacent buildings and facilities to remain. Ensure safe passage of people around selective

PROTECT WALLS, CEILINGS, FLOORS, and other existing finish work that are to remain and are exposed during selective demolition operations.

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THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

THE ARCHITECT DISCLAIMS responsibility for the existing building

structure, site conditions, existing construction elements, or any

documents, drawings or other instruments used for any part of this

Project which do not bear the Architect's seal. The Architect's

services are undertaken only in the interest of the Project Owner. No obligation is assumed by the Architect for the benefit of any other entity. RELATED DOCUMENTS: This Drawing is a single component of an integrated set of Construction Documents. General and Supplementary Conditions of the Contract, General Requirements, Specifications and other Drawings may affect the Work described. Failure to review and integrate the design intent of the whole of the Construction Documents does not relieve the Contractor from providing a complete Project. COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. VERIFY ACTUAL CONDITIONS and dimensions prior to construction. Commencement of work constitutes verification and acceptance of all existing conditions. Application of a material or equipment item to Work installed by others constitutes acceptance of that Work, and assumption of responsibility for satisfactory installation. DIMENSIONS

SHOWN are to finish face of a material unless otherwise indicated.

CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless

otherwise directed.

**project** title

SUMMIT FAIR G NW Blue Pkwy Summit, MO 64086

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**project** number

professional seal

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DATE SIGNED: 6/16/2023 8:38:07 AM drawing title

rawing number

**SP002** 

**SPECIFICATIONS** 

drawing issuance

ISSUED FOR PERMIT

drawing revisions

No. Description:

DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT required by new construction and as indicated. Use methods required to complete Work within limitations of governing regulations and as follows:

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. To minimize disturbance of adjacent surfaces, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain

CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE into concealed surfaces to avoid marring existing finished surfaces. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable firesuppression devices during flame-cutting operations. Maintain adequate ventilation when using cutting torches

REMOVE DECAYED, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.

RETURN ELEMENTS OF CONSTRUCTION AND SURFACES TO REMAIN to condition existing before start of selective demolition operations.

DEMOLISH CONCRETE AND MASONRY in small sections. Cut concrete and masonry at junctures with construction to remain, using power-driven masonry saw or hand tools; do not use power-driven impact tools.

PATCHING AND REPAIRS

PROMPTLY PATCH AND REPAIR holes and damaged surfaces caused to adjacent construction by selective demolition operations. Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.

RESTORE EXPOSED FINISHES of patched areas and extend finish restoration into adjoining construction to remain in a manner that eliminates evidence of patching and refinishing.

PATCH AND REPAIR FLOOR AND WALL SURFACES in the new space where demolished walls or partitions extend one finished area into another. Provide a flush and even surface of uniform color and appearance. Closely match texture and finish of existing adjacent surface. Patch with durable seams that are as invisible as possible.

WHERE PATCHING SMOOTH PAINTED SURFACES, extend final paint coat over entire unbroken surface containing the patch after the surface has received primer and second coat

DISPOSAL OF DEMOLISHED MATERIALS

PROMPTLY DISPOSE of demolished materials. Do not allow demolished materials to accumulate on-site. Do not burn demolished materials.

TRANSPORT DEMOLISHED MATERIALS off the Owner's property and legally dispose of them.

#### SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

WORK INCLUDED: Provide cast-in-place concrete, as indicated on the drawings, as specified herein, and as required for a complete and proper installation.

REFERENCED STANDARDS: Comply with applicable provisions of the following codes, specifications and standards, except where more stringent requirements are shown or

ACI 318: "Manual of Standard Practice"

ACI 347: "Recommended Practice for Concrete Formwork"

ACI 301: "Specifications for Structural Concrete for Buildings" ACI 302: "Floor and Slab Construction"

ACI 304: "Measuring, Mixing and Placing Concrete"

ACI 305: "Hot Weather Concreting

ACI 306: "Cold Weather Concreting"

ACI 315: "Reinforcement Detailing"

CRSI's "Manual of Standard Practice"

A TESTING LABORATORY will be retained to perform material evaluation tests and to design concrete mixes. Materials and installed work may require testing and retesting, as directed by Owner, at anytime during progress of Work. Allow free access to material stockpiles and facilities. Remove and replace work found to be defective and provide new acceptable

ONLY KNOWLEDGEABLE PERSONS shall be employed who are thoroughly trained and experienced in skills necessary for completion of the Work of this Section. In installation use adequate numbers of skilled workmen to ensure installation in strict accordance with the requirements of the Contract Documents.

SUBMIT PRODUCT DATA for proprietary materials and items, including reinforcement and forming accessories, admixtures, curing compounds, and other items specified herein.

SUBMIT REINFORCEMENT SHOP DRAWINGS for fabrication, bending, and placement of reinforcement. Comply with ACI 315 "Manual of Standard Practice for Detailing Reinforced Concrete Structures" showing bar schedules, stirrup spacing, diagrams of bent bars, arrangement of concrete reinforcement. Include special reinforcement required and openings through concrete structures.

SUBMIT LABORATORY TEST REPORTS for concrete materials and mix design tests.

# FORM MATERIALS:

FURNISH IN LARGEST PRACTICABLE SIZES to minimize joints, and to conform to joints shown on drawings. Provide material with sufficient thickness to withstand pressure of newly-placed concrete without bow or deflection.

FORMS FOR UNEXPOSED CONCRETE: Plywood, lumber, metal or other material. Provide lumber dressed on at least 2 edges and one side for tight fit.

FORMS FOR EXPOSED CONCRETE: Plywood, metal, metal-framed plywood panels, or other acceptable smooth faced undamaged panel-type material, to provide continuous, straight, smooth, exposed surfaces.

FORM COATINGS: Commercial formulation form-coating compounds that will not bond with, stain nor adversely affect concrete surfaces, and will not impair subsequent treatments of concrete surfaces.

REINFORCING MATERIALS: REINFORCING BARS: ASTM A-615, Grade 60, deformed.

ANCHOR BOLTS: ASTM A-307, Grade A bolts with standard heads, in length and projections indicated on the drawings.

STEEL WIRE: ASTM A-82, plain, cold-drawn.

WELDED WIRE FABRIC: ASTM A-185, welded steel. REINFORCEMENT SUPPORTS: Bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcing bars and welded wire fabric in place. Use wire bar type supports complying with CRSI specifications, unless otherwise acceptable. For slabs-ongrade, use supports with sand plates or horizontal runners where base material will not

support chair.

PORTLAND CEMENT: ASTM C-150, Type I, low alkali. Use only one brand of cement throughout

NORMAL WEIGHT AGGREGATES: ASTM C-33, crushed limestone, granite or equivalent material from a single source. Maximum aggregate sizes shall be not larger than one-fifth of the narrowest dimension between sides of forms, one-third of the depth of slabs, or threefourths of the minimum clear spacing between individual reinforcing bars or bundles of bars. FINE AGGREGATES: Natural washed hard sand varying from fine to particles passing a 3/8" screen, of which at least 12 % shall pass a 50 - mesh screen. WATER: Clean, drinkable, and free from foreign matter.

PROVIDE ADMIXTURES CERTIFIED BY MANUFACTURER to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material and to be compatible with other admixtures and cementitious materials. Do not use admixtures containing calcium

AIR-ENTRAINING ADMIXTURE: ASTM C 260. WATER-REDUCING ADMIXTURE: ASTM C 494, Type A. HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C 494, Type F. WATER-REDUCING AND ACCELERATING ADMIXTURE: ASTM C 494, Type E. WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C 494, Type D.

STRIP-TOP EXPANSION JOINT FILLER: Preformed strips of Asphalt saturated fiberboard, complying with ASTM D-1751, with pre-cut or perforated, removable top edge for installation of sealant material.

CURING/SEALING COMPOUND: ASTM C-309, Type ID, Products which may be used include: "Super Floor Coat" or "Super Pliocure" by Euclid Chemical Company, "MasterKure CR" by Master Builders, and "Surfaseal" by L&M Construction Chemicals.

MOISTURE-RETAINING COVER: Waterproof paper, or polyethylene film, or polyethylenecoated burlap, meeting ASTM C-171.

### PROPORTIONING AND DESIGN OF MIXES:

PREPARE DESIGN MIXES for each type and strength of concrete by either laboratory trial batch or field experience methods as specified in ACI 301. If trial batch method is used, use an independent testing facility for preparing and reporting proposed mix designs.

MIX ADJUSTMENTS may be made by the Contractor, at no additional cost to the Owner. Laboratory test data for revised mix design and strength results must be submitted to and accepted by the Owner before using in the Work. At Contractor's option, withhold up to 2-1/2 gallons of water per cubic yard of concrete. Add withheld water immediately prior to discharge but only after five (5) minutes of mixing time has elapsed.

AGGREGATE PROPORTIONING: The volume of fine aggregate shall not be less than 35% of the total volume of fine and coarse aggregates when measured in loose dry volumes before being combined.

#### DESIGN MIXES to provide normal weight concrete with the following properties:

FOOTINGS, GRADE BEAMS, & FOUNDATION WALLS: 4000 PSI compressive strength (28 Days), maximum water/cement ratio = 0.52 and 4 inch +/- 1 inch natural slump or 8 inches maximum slump for concrete with high-range water-reducing admixture added to 2- to 4-inch natural

EXTERIOR CURBS, GUTTERS AND PAVEMENT: 4000 PSI compressive strength (at 28 Days), maximum water/cement ratio = 0.50 and 4 inch +/- 1 inch natural slump or 8 inches maximum slump for concrete with high-range water-reducing admixture added to 2- to 4-inch natural slump concrete, and with 6% air entrainment.

GROUT FOR FILLING MASONRY CELLS at vertical reinforcing: 2000 psi @ 28 day compression strength, with 8" to 10" slump.

CONCRETE EXPOSED TO DEICERS: LIMIT CEMENTITIOUS MATERIALS other than Portland cement by percentage of weight according to ACI 301 requirements.

AIR CONTENT: Provide air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content as follows within a tolerance of plus 1 or minus 1.5 percent, to provide 6 percent air content for 1-inch- nominal maximum aggregate size. Do not air entrain concrete on trowel-finished interior floors and suspended slabs. Do not allow entrapped air content to exceed 3 percent.

#### INSTALLATION:

EXAMINATION & INSPECTION: Examine areas and conditions under which the Work of this Section will be performed. Do not proceed if conditions exist that are detrimental to proper and timely completion. Commencement of this Work will be construed as acceptance of existing conditions or prior work by others, and assumption of responsibility for satisfactory

## FORM CONSTRUCTION:

DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN formwork so that it will safely support vertical and lateral loads that might be applied, until such loads can be supported by the concrete structure. Design formwork to be readily removable without impact, shock or damage to cast-in-place concrete surfaces and adjacent materials.

CONSTRUCT FORMS to sizes, shapes, lines and dimensions shown, and to obtain accurate alignment, location, grades, level and plumb work in finished structures. Provide for openings, offsets, sinkages, keyways, recesses, moldings, rustications, reglets, chamfers, blocking, screeds, bulkheads, anchorages and inserts, and other features required in work. Use selected materials to obtain required finishes. Solidly butt joints and provide back-up at joints to prevent leakage of cement paste.

EARTH FORMS: Side forms for footings may be omitted and concrete poured directly against excavation only when requested by the Contractor and accepted by the Owner. When omission of forms is accepted, provide additional concrete I" thick on each side of the minimum design profile of sides and dimensions shown.

FABRICATE FORMS FOR EASY REMOVAL without hammering or prying against surfaces. Provide crush plates or wrecking plates where stripping may damage cast concrete surfaces Kerf wood inserts for forming keyways, knockout panels recesses and the like to prevent swelling and for easy removal.

PROVIDE wedges, jacks, or camber strips to facilitate vertical adjustments. Carefully inspect formwork during and after concrete placement operations to determine abnormal deflection or signs of failure; make necessary adjustments to produce Work of required

CHAMFER EXPOSED CORNERS and edges, using wood, metal, PVC or rubber chamfer strips Chamfers shall be 1" x 1" strips, accurately formed and surfaced to produce uniformly straight lines and tight edge joints on exposed concrete.

PROVISIONS FOR OTHER TRADES: Provide openings in concrete formwork to accommodate work of other trades. Determine size and location of openings, recesses and chases from trades providing such items. Accurately place and securely support items built into forms.

INSTALLATION OF EMBEDDED ITEMS: Set and build into work anchorage devices, rustication strips, chamfers, and other embedded items such as sleeves, mechanical suspension devices conduit, electrical boxes, switches.

CLEANING AND TIGHTENING: Thoroughly clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before concrete is placed. Retighten forms immediately after concrete placement as required to eliminate mortar leaks, and to maintain proper alignment.

# PLACING REINFORCEMENT:

twisted ends are away from exposed surfaces.

COMPLY with CRSI's recommended practice for "Placing Reinforcing Bars", for details and methods of reinforcement placement and supports.

CLEAN REINFORCEMENT of loose rust and mill scale, earth, and other materials which reduce or destroy bond with concrete.

POSITION, SUPPORT, AND SECURE reinforcement against displacement by formwork, construction, or concrete placement operations. Locate and support reinforcing by ties, spacers, chairs or hangers as required.

PLACE REINFORCEMENT to obtain the minimum coverage for concrete protection. Arrange,

reinforcement accurately in position during concrete placement operations. Set wire ties so

space and secure tie bars and bar supports together with 16 gage wire to hold

INSTALL WELDED WIRE FABRIC in as long lengths as practicable. Lap adjoining pieces at least one full mesh unit and lace laps with wire. Offset end laps in adjacent widths to prevent continuous laps in either direction.

CONSTRUCTION JOINTS: Locate and install construction joints as indicated or, if not indicated locate so as not to impair strength and appearance of the structure, as acceptable to the

PROVIDE KEYWAYS at least 1-1/2' deep or as otherwise noted, where indicated in the

PLACE CONSTRUCTION JOINTS perpendicular to main reinforcement. Continue reinforcement across construction joints.

ISOLATION JOINTS IN SLAB-ON-GRADE: Construct at points of contact between slabs and vertical surfaces, such as column pedestals, foundation walls, grade beams and elsewhere as indicated. Provide removable-top type expansion joint material for installation of sealant, where exposed to view in completed work.

CONTRACTION (CONTROL) JOINTS IN SLAB-ON-GRADE: Construct to form panels to divide slab into controlled areas of concrete pour as indicated on the Drawings. Use premolded plastic control joint former, inserted into fresh concrete until top surface of strip is flush with slab surface. Remove pull-top stiffener, and finish concrete flat over joint.

SAWN CONTRACTION JOINTS may be provided in lieu of premolded units, as soon as possible after slab finishing as may be safely done without dislodging aggregate. Saw cut not less than 1/4 the slab thickness.

#### INSTALLATION OF EMBEDDED ITEMS:

SET AND BUILD INTO WORK anchorage devices and other embedded items required for other work that is attached to, or supported by, cast-in-place concrete. Use setting drawings, diagrams, instructions and directions provided by suppliers of items to be attached thereto.

EDGE FORMS AND SCREED STRIPS FOR SLABS: Set edge forms or bulkheads and intermediate screed strips for slabs to obtain required elevations and contours in finished slab surface. Provide and secure units sufficiently strong to support types of screed strips by use of strike-off templates or accepted compacting type screeds.

#### PREPARATION OF FORM SURFACES:

CLEAN re-used forms of concrete matrix residue, repair and patch as required to return forms to acceptable surface condition. Rust-stained steel formwork is not acceptable.

COAT CONTACT SURFACES with form-coating compound before reinforcement is placed. Do not allow excess form-coating material to accumulate in forms or to come into contact with in-place concrete against which fresh concrete will be placed.

### CONCRETE PLACEMENT:

INSPECT and complete formwork installation, reinforcing steel, and items to be embedded or cast-in-place. Notify other crafts to permit installation of their work; cooperate with other trades in setting such work. Moisten wood forms immediately before placing concrete where form coatings are not used.

COORDINATE installation of joint materials and moisture barriers with placement of forms and reinforcing steel.

COMPLY with ACI 304 "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete", and as herein specified.

DO NOT USE CONCRETE which becomes non-plastic and unworkable, or does not meet the required quality control limits, or which has been contaminated by foreign materials. Remove rejected concrete from the site and dispose of it in a location approved by local authorities.

CONCRETE CONVEYING: Handle concrete from the point of delivery and transfer to concrete conveying equipment, and to the location of final deposit, as rapidly and practicable as Specified in ASTM C-94. Use chutes or tremies for placing concrete where a drop of more than three (3) feet is required. Pumps may be used only if they can pump the mix designed. Do not add fine aggregate or water to the mix to satisfy needs of a pumping device.

placed on concrete which has hardened sufficiently to cause the formation of seams or as herein specified. Deposit concrete as nearly as practicable in its final location to avoid segregation. Place in forms in horizontal layers not deeper than 24", and to avoid inclined

DEPOSIT CONCRETE continuously or in layers of such thickness that no concrete will be

CONSOLIDATE PLACED CONCRETE by mechanical vibrating equipment supplemented by hand-spading, rodding or tamping, in accordance with ACI recommended practices. Install and withdraw vibrators vertically at uniformly spaced locations not farther than visible effectiveness of machine.

PLACE VIBRATORS to rapidly penetrate placed layer and at least 6" into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to set. At each insertation, limit duration to time necessary to consolidate and complete embedment of reinforcement and embedded items without causing segregation of mix. Do not use vibrators to transport concrete inside forms. Do not vibrate forms or reinforcement. Do not subject concrete to any procedure which will cause segregation. Maintain reinforcement in proper position during placement and consolidation.

CURBS & GUTTERS: Automatic curb-extrusion machines may be used for curb and gutter placement at Contractor's option. If machine placement is to be used, submit revised mix design and laboratory test results which meet or exceed minimums specified. Machine placement must produce curbs and gutters to required cross-section, lines, grades, finish, and jointing as required for formed concrete. If results are not acceptable, remove and replace with formed concrete as specified.

# PLACING CONCRETE SLABS:

DEPOSIT AND CONSOLIDATE concrete slabs in a continuous operation, within the limits of construction joints, until the placing of a panel or section is completed. Consolidate concrete so it is thoroughly worked around reinforcement and other embedded items and into corners. Bring slab surface to the correct level with a straight edge, and then strike off. Use bull floats or darbies to smooth surface, leaving it free from bumps and hollows.

DO NOT sprinkle water on the plastic surface. Do not disturb the slab surface prior to start of finishing operations.

# HOT WEATHER CONCRETE PLACING:

COMPLY with ACI 305 and as required herein. When air temperature is between 85 deg. F and 90 deg. F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes, when air temperature is above 90 deg. F, reduce mixing and delivery time to 60 minutes.

USE CHILLED WATER OR ICE to maintain concrete temperature at time of placement below 90 degrees, provided the water equivalent of the ice is included in the total allowable amount of water.

COVER REINFORCING STEEL with water soaked burlap if the steel becomes too hot. Steel temperature shall not exceed the ambient air temperature. Wet forms thoroughly prior to placement of concrete. Fog spray forms, reinforcing steel and subgrade just before concrete is placed.

USE WATER-REDUCING RETARDING ADMIXTURE (Type D) when required by high temperatures, low humidity, or other adverse placing conditions.

# FINISH OF FORMED SURFACES:

ROUGH FORM FINISH: For formed concrete surfaces not exposed-to-view in the finish work or by other construction, unless otherwise indicated. Repair and patch tie holes and defective areas. Rub down or chip off fins or other projections exceeding 1/4".

SMOOTH FORM FINISH: for formed concrete surfaces exposed-to-view, or that are to be covered with a coating material applied directly to concrete (including waterproofing and painting), provide as-cast concrete surface obtained with selected form facing material, arranged orderly and symmetrically with a minimum of seams. Repair and patch defective areas with fins or other projections completely removed and smoothed.

### CONCRETE CURING AND PROTECTION:

PROTECT freshly placed concrete from premature drying from wind, excessive cold and hot temperature, and maintain for a period of time necessary for hydration of cement and proper hardening.

INITIATE CURING as soon as the surface water has disappeared after finishing in accordance with ACI 301. Avoid rapid drying at end of final curing period.

MOISTURE CURING: Keep concrete surface continuously wet by covering with water, continuous water-fog spray, or with an absorptive cover, thoroughly saturated with water and kept continuously wet. Place cover to provide coverage of concrete surfaces and edges, with 4" lap over adjacent absorptive materials.

MOISTURE-COVER CURING: Cover concrete surface with moisture-retaining cover placed in widest practicable width with sides and ends lapped at least 3" and sealed with waterproof tape. Immediately repair holes or tears during curing period.

ANTI-SPALLING TREATMENT: Apply over concrete cured by continuous moist curing methods. Apply to surfaces no sooner than 28 days after placement, to clean, dry concrete free of oil, dirt, and other foreign material. Apply in two sprayed applications, with first application at rate of 40 square yards per gallon; second application at 60 sq. yds. per gallon. Allow complete drying between applications.

#### APPLICATION OF CURE/SEAL COMPOUND:

APPLY TO NEW CONCRETE SLABS as soon as concrete is firm enough to work on after troweling. Spray-on at rate of 200 square feet per gallon minimum, or as otherwise recommended by manufacturer. Keep surfaces wet with compound for minimum soak-in period of 30 minutes, without allowing drying out or becoming slippery.

IN HOT WEATHER slipperiness may appear before the 30 minute time period has elapsed. If that occurs, apply more cure-seal-hardener as required to keep entire surface in a nonslippery state for the first 15 minutes. For the remaining 15 minutes, mist the surface as needed with water to keep the material in a non-slippery state. After this period, when treated surface becomes slippery lightly mist with water until slipperiness disappears. Wait for surface to become slippery again and then flush entire surface with water removing all residue of curing compound.

SQUEEGEE SURFACE COMPLETELY DRY, flushing any remaining slippery areas until no residue remains. Wet vacuum or scrubbing machines may be used to remove residue, provided manufacturer's instructions are followed.

DO NOT APPLY cure/seal compound to surfaces receiving concrete stain, waterproofing membrane, tile flooring or other surface coatings, unless acceptable to product manufacturer of the finish material.

EXTERIOR CURBS, GUTTERS, & EXTERIOR SLABS: Moisture cure & anti-spalling treatment. TYPICAL INTERIOR FLOORS: Cure/seal compound INTERIOR FLOOR SLABS WITH CERAMIC TILE FINISH: Moisture cure or moisture-cover cure

#### REMOVAL & REUSE OF FORMS:

REMOVAL FORMS supporting walls after cumulative curing at not less than 50 degrees F for 24 hours after placing concrete, provided concrete is sufficiently hard to not be damaged by form removal operation, and provided that curing and protection operations are maintained.

#### MISCELLANEOUS CONCRETE ITEMS:

FILL-IN holes and openings left in concrete structures for passage of work by other trades is in place. Mix, place and cure concrete as herein specified, to blend with in-place construction.

CURBS: Provide monolithic finish to interior curbs by stripping forms while concrete is still green, and steel-troweling surfaces to a hard, dense finish with corners, intersections and terminations slightly rounded.

SET ANCHOR BOLTS furnished by others at correct elevations, complying with templates provided by manufacturer or supplier furnishing such items.

PATCH AND REPAIR defective areas of concrete with cement mortar immediately after removal of forms. Cut out honeycomb, rock pockets, voids over 1/4" in any dimension, and holes left by tie rods and bolts, down to solid concrete but in no case to a depth of less than 1". Make edges of cuts perpendicular to the concrete surface. Thoroughly clean, dampen with water and brush-coat the area to be patched with bonding agent. Place patching mortar after bonding compound has dried.

FOR EXPOSED-TO-VIEW SURFACES, blend white portland cement and standard portland cement so that when dry, patching mortar will match surrounding color.

# FIELD QUALITY CONTROL:

each set of compressive strength test specimens.

SAMPLING AND TESTING for quality control during placement of concrete shall include the

SLUMP: ASTM C-143; one test for each concrete load at point of discharge; and one test for

AIR CONTENT: ASTM C-231, for normal weight concrete; one for each set of compressive strength test specimens.

CONCRETE TEMPERATURE: Test hourly when air temperature is 40 degrees F. and below, and when 80 degrees F. and above, and each time a set of compressive test specimens made.

COMPRESSIVE TEST SPECIMEN: ASTM C-31; one set of four (4) standard cylinders for each compressive strength test. COMPRESSIVE STRENGTH TESTS: ASTM C-39; one set for each truck load (not to exceed 10 CY)

or fraction thereof, of each class of concrete placed each day; test one cylinder at 7 days and two (2) cylinders at 28 days, the fourth cylinder need only be tested if the 28 day tests

TEST RESULTS SHALL BE REPORTED in writing to Owner, special inspector, and contractor within

24 hours that tests are made. Reports of compressive strength tests shall contain the project

service, concrete type and class, location of concrete batch in structure, mix proportions and

identification name and number, date of concrete placement, name of concrete testing

additional testing as may be required, when unacceptable concrete is verified.

materials, the compressive breaking strength and type of break for both 7 and 28 day tests. ADDITIONAL TESTS shall be made when test results indicate required strengths have not been attained. Tests may be done by cored cylinders complying with ASTM C-42, or by other methods as directed. The Contractor shall pay for such tests conducted, and any other

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portraved, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited. © KLOVER ARCHITECTS, INC.

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structure, site conditions, existing construction elements, or any

documents, drawings or other instruments used for any part of this Project which do not bear the Architect's seal. The Architect's services are undertaken only in the interest of the Project Owner. No obligation is assumed by the Architect for the benefit of any other entity. RELATED DOCUMENTS: This Drawing is a single component of an integrated set of Construction Documents. General and Supplementary Conditions of the Contract, General Requirements, Specifications and other Drawings may affect the Work described. Failure to review and integrate the design intent of the whole of the Construction Documents does not relieve the Contractor from providing a complete Project. COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. VERIFY ACTUAL

> of work constitutes verification and acceptance of all existing conditions. Application of a material or equipment item to Work installed by others constitutes acceptance of that Work, and assumption of responsibility for satisfactory installation, DIMENSIONS SHOWN are to finish face of a material unless otherwise indicated. CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless otherwise directed.

CONDITIONS and dimensions prior to construction. Commencement

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**project** number

**drawing** issuance ISSUED FOR PERMIT

**drawing** revisions

DATE SIGNED: 6/16/2023 8:38:07 AM

WORK INCLUDED: Provide cold-formed metal framing where indicated on the Drawings, as specified herein, and as necessary for complete installation. Types of applications include

DESIGN / BUILD: In addition to providing cold-formed metal framing, provide Professional Engineering Services for the following:

Miscellaneous structural framing appurtenances attached to the primary structural frame(s).

## **DEFINITIONS**

MINIMUM UNCOATED STEEL THICKNESS: Minimum uncoated thickness of cold-formed framing delivered to the Project site shall be not less than 95 percent of the thickness used in the coldformed framing design. Lesser thicknesses shall be permitted at bends due to cold forming.

### PERFORMANCE REQUIREMENTS:

but are not limited to the following:

PROVIDE COLD-FORMED METAL FRAMING capable of withstanding design loads within limits and under conditions as indicated in the Drawings at miscellaneous elements and assemblies.

Design framing systems to provide for movement of framing members without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change of 120

Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load deflection of the primary building structure not to exceed 1/2 inch maximum for upward or downward movement.

Design exterior non-load-bearing curtain-wall framing to accommodate horizontal deflection without regard for contribution of sheathing materials.

DEFLECTION LIMITS: Design framing systems to withstand design loads without deflections greater than the following:

Exterior Load-Bearing Wall Framing: Horizontal deflection of I/360 of the wall height minimum

Exterior Non-Load-Bearing Framing at brick veneer: Horizontal deflection of 1/600 of the wall

Exterior Non-Load-Bearing Framing without brick veneer: Horizontal deflection of 1/360 of the

Roof Rafter Framing: Horizontal deflection of 1/360 of the horizontally projected span.

Ceiling Joist Framing: Vertical deflection of 1/240 of the span.

### SUBMITTALS

PRODUCT DATA: For each type of cold-formed metal framing product and accessory

SHOP DRAWINGS: Show layout, spacings, sizes, thicknesses, and types of cold-formed metal framing; fabrication; and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining Work.

SUBMIT STRUCTURAL ANALYSIS DATA for framing indicated to comply with design loads, and provide shop drawings signed and sealed by the qualified Professional Engineer responsible for their preparation.

MILL CERTIFICATES signed by steel sheet producer indicating steel sheet complies with requirements. Provide test reports from a qualified independent testing agency if required by authorities having jurisdiction.

WELDING CERTIFICATES: Copies of certificates for welding procedures and personnel.

QUALIFICATION DATA: For firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

RESEARCH/EVALUATION REPORTS: Evidence of cold-formed metal framing's compliance with building code in effect for Project, from a model code organization acceptable to authorities having jurisdiction.

# **QUALITY ASSURANCE**

INSTALLER QUALIFICATIONS: An experienced installer who has completed cold-formed metal framing similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

PROFESSIONAL ENGINEER QUALIFICATIONS: A professional, registered/licensed "Structural Engineer" legally qualified to practice in the state in which the Project is located, experienced in providing engineering services of the kind required herein. Engineering services are defined as those performed for installations of structural work similar to Work specified in this Section in material, design, and extent. Provide certificate indicating compliance with Division-1 requirements for Professional Liability Insurance before submitting shop drawings for review.

MILL CERTIFICATES signed by steel sheet producer indicating steel sheet complies with requirements, including uncoated steel thickness, yield strength, tensile strength, total elongation, chemical requirements, and galvanized-coating thickness.

AISI SPECIFICATIONS: Comply with AISI's "Specification for the Design of Cold-Formed Steel Structural Members" for calculating structural characteristics of cold-formed metal framing:

CCFSS Technical Bulletin: "AISI Specification Provisions for Screw Connections."

HEADER DESIGN: AISI's "Standard for Cold-Formed Steel Framing - Header Design."

# DELIVERY, STORAGE, AND HANDLING

PROTECT COLD-FORMED METAL FRAMING from corrosion, deformation, and other damage during delivery, storage, and handling. Store cold-formed metal framing, protect with a waterproof covering, and ventilate to avoid condensation.

## **PRODUCTS**

MANUFACTURERS: All products to be manufactured by current members of the Steel Stud Manufacturers Association (SSMA). Subject to compliance with requirements, manufacturers offering cold-formed metal framing that may be incorporated into the Work include, but are not limited to, the following:

Allied American Studco, Inc. California Expanded Metal Products Co. Clark Steel Framing Industries. Consolidated Systems, Inc. Design Shapes in Steel. Knorr Steel Framing Systems. Scafco Corp. Steel Developers, LLC. Studco of Hawaii, Inc. Unimast, Inc.

Angeles Metal Systems. California Metal Systems, Inc. Consolidated Fabricators Corp. Dale Industries, Inc. Dietrich Industries, Inc. MarinoWare; Div. of Ware Industries, Inc. Steel Construction Systems. Steeler, Inc. Super Stud Building Products, Inc.

United Metal Products, Inc.

Western Metal Lath.

STEEL MATERIALS STEEL SHEET: ASTM A 653, structural steel, zinc coated, of grade and coating as follows: Grade: 33 for minimum uncoated steel thickness of 0.0428 inch (18-gage) and less; 50, Class 1 or 2 for minimum uncoated steel thickness of 0.0538 inch (16-gage) and greater. COATING: G60.

STEEL SHEET: ASTM A 570, hot rolled or ASTM A 611, cold rolled; cleaned, pretreated, and primed with manufacturer's baked-on, lead- and chromate-free, rust-inhibitive primer complying with performance requirements in FS TT-P-664, of grade as follows: Grade: 33 or C, Type 1 or 2.

Grade: 33 or C, Type 1 or 2, for minimum uncoated steel thickness of 0.0428 inch and less; 40 or D, Type 1 or 2, for minimum uncoated steel thickness of 0.0538 inch (16-gage) and greater.

LOAD AND NON-LOAD-BEARING COLD-FORMED METAL FRAMING Minimum base-metal thickness (all components typical): 0.0428 inch (18 gage)

STRUCTURAL-STEEL FRAMING (STEEL STUDS): Manufacturer's standard C-shaped steel studs, of web depths and strength/section modulus indicated on Drawings, punched, with stiffened flanges, complying with ASTM C 955,

STRUCTURAL-STEEL TRACK: Manufacturer's standard U-shaped steel track, of web depths indicated on the Drawings, 1-1/4 inch flange-width, unpunched, with unstiffened flanges, complying with ASTM C 955, of same metal thickness as associated structural-steel framing

STEEL BOX OR BACK-TO-BACK HEADERS: Manufacturer's standard C-shapes used to form header beams, of web depths and strength/section modulus as indicated on the Drawings with 1-3/8 inch minimum flange width, with stiffened flanges Steel Double-L Headers: Manufacturer's standard L-shapes used to form header beams, of web depths and strength/section modulus as indicated on the Drawings with 1-1/2 inch minimum flange width, with stiffened flanges

SINGLE DEFLECTION TRACK (ONLY AT NON-LOAD BEARING FRAMING): Manufacturer's single, deep-lea, U-shaped steel track, 2 inch minimum flange-width, unpunched, with unstiffened flanges, of depth required to contain framing units while allowing free vertical movement, with flanges designed to support horizontal and lateral loads DOUBLE DEFLECTION TRACKS (ONLY AT NON-LOAD BEARING FRAMING): Manufacturer's double element, deep-leg, U-shaped steel tracks, consisting of nested inner and outer tracks; unpunched, with unstiffened flanges.

OUTER TRACK: Of web depth to allow free vertical movement of inner track, with 2 inch minimum width flanges designed to support horizontal and lateral loads

INNER TRACK: Of web depth indicated, of minimum 3-1/2 inch flange width Vertical Deflection Clips: Manufacturer's standard bypass clips, capable of accommodating upward and downward vertical displacement of primary structure.

#### ROOF-RAFTER FRAMING

STEEL RAFTERS: Manufacturer's standard C-shaped steel sections, of 0.0428 inch (18 gage) minimum base-metal thickness, of web depths and strength/section modulus indicated on Drawings, unpunched, with stiffened flanges, complying with ASTM C 955

FRAMING ACCESSORIES Fabricate steel-framing accessories of the same material and finish used for framing members, with a minimum yield strength of 33,000 psi. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated, as follows: Supplementary framing.

Bracing, bridging, and solid blocking. Web stiffeners. End clips. Stud kickers, knee braces, and girts. Joist hangers and end closures. Hole reinforcing plates.

ANCHORS, CLIPS, AND FASTENERS Steel Shapes and Clips: ASTM A 36, zinc coated by hot-dip process according to ASTM A 123.

Backer plates.

EXPANSION ANCHORS: Fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 5 times design load, as determined by testing per ASTM E 488 conducted by a qualified independent testing agency. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 10 times design load, as determined by testing per ASTM E 1190 conducted by a qualified independent testing agency.

Mechanical Fasteners: Corrosion-resistant-coated, self-drilling, self-threading steel drill screws.

HEAD TYPE: Low-profile head beneath sheathing, manufacturer's standard elsewhere. WELDING ELECTRODES: Comply with AWS standards.

# MISCELLANEOUS MATERIALS

GALVANIZING REPAIR PAINT: SSPC-Paint 20 or DOD-P-21035. CEMENT GROUT: Portland cement, ASTM C 150, Type I; and clean, natural sand, ASTM C 404. Mix at ratio of 1 part cement to 2-1/2 parts sand, by volume, with minimum water required for placement and hydration. Nonmetallic, Nonshrink Grout: Premixed, nonmetallic, noncorrosive, nonstaining grout

containing selected silica sands, Portland cement, shrinkage-compensating agents, and plasticizing and water-reducing agents, complying with ASTM C 1107, with fluid consistency and 30-minute working time.

# **FABRICATION**

FABRICATE COLD-FORMED METAL FRAMING AND ACCESSORIES plumb, square, and true to line, and with connections securely fastened, according to manufacturer's written recommendations and requirements in this Section. Fabricate framing assemblies using jigs or templates. Cut framing members by sawing or shearing; do not torch cut.

FASTEN COLD-FORMED METAL FRAMING MEMBERS by welding or screw fastening, as standard with fabricator. Wire tying of framing members is not permitted.

COMPLY WITH AWS D1.3 REQUIREMENTS and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.

LOCATE MECHANICAL FASTENERS and install according to Shop Drawings, with screw penetrating joined members by not less than three exposed screw threads. Fasten other materials to cold-formed metal framing by welding, bolting, or screw fastening, according to

REINFORCE, STIFFEN, AND BRACE FRAMING ASSEMBLIES to withstand handling, delivery, and erection stresses. Lift fabricated assemblies to prevent damage or permanent distortion.

FABRICATION TOLERANCES: Fabricate assemblies level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet and as follows: Spacing: Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or Squareness: Fabricate each cold-formed metal framing assembly to a maximum out-of-

# square tolerance of 1/8 inch.

EXAMINE SUPPORTING SUBSTRATES and abutting structural framing for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

# PREPARATION

**EXECUTION** 

GROUT BEARING SURFACES UNIFORM and level to ensure full contact of bearing flanges or track webs on supporting concrete or masonry construction.

# COLD-FORMED FRAMING INSTALLATION:

COMPLY WITH ASTM C 1007, unless more stringent requirements are indicated. Shop or field fabricate, or field assemble.

SECURELY ANCHOR to supporting structure. Bolt or weld wall panels at horizontal and vertical junctures to produce flush, even, true-to-line joints with maximum variation in plane and true position between fabricated panels not exceeding 1/16 inch.

INSTALL FRAMING AND ACCESSORIES PLUMB, square, and true to line, and with connections securely fastened, according to manufacturer's written recommendations and requirements in this Section. Cut framing members by sawing or shearing; do not torch cut. Fasten coldformed metal framing members by welding or screw fastening, as standard with fabricator. Wire tying of framing members is not permitted. Comply with AWS D1.3 requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work. Locate mechanical fasteners and install according to Shop Drawings, with screw penetrating joined members by not less than three exposed screw threads.

INSTALL FRAMING MEMBERS IN ONE-PIECE LENGTHS, unless splice connections are indicated for track or tension members.

INSTALL TEMPORARY BRACING AND SUPPORTS to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.

DO NOT BRIDGE BUILDING EXPANSION AND CONTROL JOINTS with cold-formed metal framing. Independently frame both sides of joints.

INSTALL INSULATION IN BUILT-UP EXTERIOR FRAMING MEMBERS, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.

FASTEN HOLE REINFORCING PLATE over web penetrations that exceed size of manufacturer's standard punched openings.

ERECTION TOLERANCES: Install cold-formed metal framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

#### LOAD-BEARING WALL INSTALLATION

INSTALL CONTINUOUS TOP AND BOTTOM TRACKS sized to match studs. Align tracks accurately and securely anchor at corners and ends, at spacings indicated on the Drawings.

SQUARELY SEAT LOAD-BEARING FRAMING against top and bottom tracks with gap not exceeding of 1/8 inch between the end of wall framing member and the web of track. Fasten both flanges of framing to top and bottom tracks. Space units as indicated on the Drawings. Set units plumb, except as needed for diagonal bracing or required for non-plumb walls or warped surfaces and similar configurations. Align units vertically where floor framing interrupts wall-framing continuity. Where framing units cannot be aligned, continuously reinforce track to transfer loads.

ALIGN FLOOR AND ROOF FRAMING over wall framing units. Where framing cannot be aligned, continuously reinforce track to transfer loads.

ANCHOR FRAMING ABUTTING STRUCTURAL COLUMNS or walls, including masonry walls, to supporting structure as indicated.

INSTALL HEADERS over wall openings wider than framing unit spacings. Locate headers above openings as indicated, fabricated from compound shapes indicated or required to transfer load to supporting framing, complete with clip-angle connectors, web stiffeners, or gusset plates. Frame wall openings with not less than a doubled-unit at each jamb of frame. Fasten jamb members together to uniformly distribute loads. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with clip angles or by welding, and space jack studs same as full-height wall framing units.

INSTALL SUPPLEMENTARY FRAMING, blocking, and bracing in wall framing indicated to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing. If type of supplementary support is not indicated, comply with wall-framing manufacturer's written recommendations and industry standards in each case, considering weight or load resulting from item supported.

INSTALL HORIZONTAL BRIDGING in stud system, spaced 48 inches minimum or as otherwise indicated on the Drawings, and fasten at each wall framing unit intersection. Provide a combination of flat, taut, steel sheet straps of width and thickness indicated or framing-track type solid units of width and thickness to match wall framing typically. Fasten flat straps to wall-framing unit flanges and secure solid blocking to framing-unit webs or flanges.

INSTALL STEEL SHEET DIAGONAL BRACING STRAPS to both framing-unit flanges, terminate at and fasten to reinforced top and bottom tracks. Fasten clip-angle connectors to multiple framing-units at ends of bracing and anchor to structure.

INSTALL MISCELLANEOUS FRAMING AND CONNECTIONS, including supplementary framing, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

# NON-LOAD-BEARING CURTAIN-WALL INSTALLATION

INSTALL CONTINUOUS TRACKS sized to match studs. Align tracks accurately and securely anchor to supporting structure as indicated. Fasten both flanges of studs to top and bottom track, unless otherwise indicated. Space studs as indicated.

SET STUDS PLUMB, except as needed for diagonal bracing or required for non-plumb walls or warped surfaces and similar requirements.

ISOLATE NON-LOAD-BEARING STEEL FRAMING from building structure to prevent transfer of vertical loads while providing lateral support. Connect vertical deflection clips to bypassing studs and anchor to primary building structure.

INSTALL HORIZONTAL BRIDGING in curtain-wall studs, spaced in rows indicated on Shop Drawings but not more than 48 inches apart. Fasten at each stud intersection. Provide horizontal bridging of the following type:

Cold-rolled steel channel, welded or mechanically fastened bridging, or a to webs of Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track

solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges. Top Bridging for Single Deflection Track: Install row of horizontal bridging within 12 inches of single deflection track. Install a combination of flat, taut, steel sheet straps of width and thickness indicated and stud or stud-track solid blocking of width and thickness matching

studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.

INSTALL MISCELLANEOUS FRAMING AND CONNECTIONS, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, fasteners, and stud girts, to provide a complete and stable curtain-wall-framing system.

# JOIST INSTALLATION

INSTALL PERIMETER JOIST TRACK sized to match joists. Align and securely anchor or fasten track to supporting structure at corners, ends, and spacings indicated on Shop Drawings.

INSTALL JOISTS BEARING ON SUPPORTING FRAME, level, straight, and plumb; adjust to final position, brace, and reinforce. Fasten joists to both flanges of joist track. Install joists over supporting frame with a minimum end bearing of 1-1/2 inches. Reinforce ends and bearing points of joists with web stiffeners, end clips, joist hangers, steel clip angles, or steel-stud sections as indicated on Shop Drawings.

SPACE JOISTS not more than 2 inches from abutting walls, and as indicated.

provide a complete and stable joist-framing assembly.

FRAME OPENINGS WITH BUILT-UP JOIST HEADERS consisting of joist and joist track, nesting joists, or another combination of connected joists if indicated.

INSTALL JOIST REINFORCEMENT at interior supports with single, short length of joist section located directly over interior support, with lapped joists of equal length to joist reinforcement, or as indicated. Install web stiffeners to transfer axial loads of walls above.

SECURE JOISTS to load-bearing interior walls to prevent lateral movement of bottom flange.

INSTALL MISCELLANEOUS JOIST FRAMING AND CONNECTIONS, including web stiffeners, closure pieces, clip angles, continuous angles, hold-down angles, anchors, and fasteners, to

## FIELD QUALITY CONTROL

OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY to perform field qualitycontrol testing. Testing agency will report test results promptly and in writing to Contractor and Architect. Testing will be performed for:

### Field and shop welds

REMOVE AND REPLACE WORK that does not comply with specified requirements. Additiona testing and inspecting, at Contractor's expense, will be performed to determine compliance of corrected Work with specified requirements.

#### REPAIRS AND PROTECTION

GALVANIZING REPAIRS: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed metal framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.

TOUCHUP PAINTING: Wire brush, clean, and paint scarred areas, welds, and rust spots on fabricated and installed prime-painted, cold-formed metal framing. Paint framing surfaces with same type of shop paint used on adjacent surfaces.

PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS, in a manner acceptable to manufacturer and Installer, that ensure cold-formed metal framing is without damage or deterioration at time of Substantial Completion.

#### SECTION 05 50 00 - METAL FABRICATIONS

PROVIDE metal fabrications where shown on the drawings and as specified herein.

FIELD MEASUREMENTS: check actual locations of walls and other construction to which metal fabrications must fit, by accurate field measurements before fabrication; show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of work.

MATERIALS: provide steel plate, shapes and bars meeting ASTM a36, steel pipe meeting ASTM a53 - grade a schedule 40, and steel tube meeting ASTM a500. For materials that will be exposed to view, provide materials that are free from surface blemished, pitting, rolled trade names, and roughness.

Fasteners shall be zinc-coated fasteners for exterior use or when built into exterior walls as

BOLTS AND NUTS: regular hexagon head type, ASTM a-307, grade a. LAG BOLTS: square heat type, fs ff-b-561.

MACHINE SCREWS: cadmium plated steel, fs ff-s-92. PLAIN WASHERS: round carbon steel fs ff-w-92.

machine bolts complying with fs ff-b-575, grade 5.

TOGGLE BOLTS: tumble wing type, fs ff-b-588, type, class and style as required. LOCK WASHERS: helical spring type carbon steel, fs ff--w-84. DRILLED-IN EXPANSION ANCHORS: expansion anchors complying with fs ff-s-325, group viii

ROUGH HARDWARE: furnish bent or otherwise custom fabricated bolts, plates, anchors, hangers, dowels and other miscellaneous steel and iron shapes as required for framing, supporting or anchoring.

(anchors, expansion, [nondrilling]), type i (internally threaded tubular expansion anchor); and

SHOP PRIMER: manufacturer's standard rust- inhibiting primer; compatible with finish coats of paint. Coordinate selection of metal primer with finish paint requirements specified in division

FABRICATION AND INSTALLATION shall conform to the latest AICS specifications. Form work true to line and level with accurate angles and surfaces. Ease exposed edges to a radius of approx. 1/4" unless otherwise shown. Weld corners and seams continuously, coping connections, unless otherwise indicated. Grind exposed welds smooth and flush to match and blend with adjoining surfaces. Provide shop coat of red oxide primer and touch-up at project site as required. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type shown or, if not shown, phillips flat-headed (countersunk) screws or bolts.

PROTECT finishes of metalwork during construction period by use of temporary protective coverings. Remove protective covering at time of substantial completion. Restore finishes damaged during installation and construction period so that no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units.

ISOLATE non-load bearing metal framing to structure with double, deep-leg u-shaped nested steel tracks typically.

# SECTION 06 16 00 - SHEATHING

WORK INCLUDED: Provide sheathing materials, including joint and penetration treatment, where indicated on the Drawings, as specified herein, and as necessary for complete installation.

GLASS-MAT GYPSUM SHEATHING & SOFFITS: Provide material in compliance with ASTM C 1177 with glass mats both sides and on long edges, with water-resistant treated core. Provide "Dens-Glass Gold" by G-P Gypsum Corporation, in 1/2 inch thick minimum, or as otherwise indicated on the Drawings x 48 inch wide by maximum height feasible (up to 120 inches) to minimize horizontal joints.

GLASS-MAT GYPSUM PRIMED ROOF-BOARD SHEATHING: (provide on back side of parapets in contact with roofing): Provide material in compliance with ASTM C 1177 with glass mats both sides and on long edges, with water-resistant treated core. Provide "Dens-Deck Prime" by G-P Gypsum Corporation, in 1/2 inch thick minimum, or as otherwise indicated on the Drawings x 48 inch wide by maximum height feasible to minimize horizontal joints.

# FASTENERS:

PROVIDE FASTENERS in size and type that comply with requirements specified in this Article for material and manufacture, with hot-dip zinc coating complying with ASTM A 153 typically, and as follows:

Nails, Brads, and Staples: ASTM F 1667. Power-Driven Fasteners: NES NER-272. Wood Screws: ASME B18.6.1.

SCREWS FOR FASTENING WOOD SHEATING: ASTM C 954, except with wafer heads and reamer wings, length as recommended by screw manufacturer for material being fastened. Provide screws with organic-polymer or other corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.

SCREWS FOR FASTENING GYPSUM SHEATHING TO METAL FRAMING: Type S-12 bugle head selftapping steel drill screws with fine thread for heavy-steel gage, in length recommended by sheathing manufacturer for thickness of sheathing board to be attached, with organicpolymer or other corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117. For steel framing from 0.033 to 0.112 inch thick, attach sheathing to comply with ASTM C 954.

JOINT SEALANT FOR GLASS-MAT GYPSUM SHEATHING: Silicone emulsion sealant complying with ASTM C 834, compatible with sheathing tape and sheathing, and recommended by tape and sheathing manufacturers for use with glass-fiber sheathing tape and for covering exposed fasteners. Provide Dow Corning 795, Pecora 895, GE Silicone Silpruf Sealant, or Tremco Dymonic

SHEATHING TAPE FOR GLASS-MAT GYPSUM SHEATHING: Self-adhering glass-fiber quick-tape, minimum 2 inches wide, 10 by 10 threads/inch, of type recommended by sheathing and tape manufacturers for use with silicone emulsion sealant in sealing joints in glass-mat gypsum sheathing board and with a history of successful in-service use.

JOINT TREATMENT FOR GLASS-MAT GYPSUM SOFFITS: "G-P" Gypsum setting-type joint compound with 2" wide 10 x 10 glass mesh.

tightly against abutting construction, unless otherwise indicated.

DO NOT USE MATERIALS WITH DEFECTS that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement.

CUT SHEATHING MATERIALS AT ALL PENETRATIONS, edges, and other obstructions of work; fit

NES NER-272 for power-driven fasteners Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code."

COORDINATE SHEATHING INSTALLATION with flashing and joint-sealant installation requirements so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.

WOOD SHEATHING PANEL INSTALLATION: Comply with applicable recommendations in APA Form No. E30K, "APA Design/Construction Guide: Residential & Commercial," for types of structural-use panels and applications indicated. Comply with "Code Plus" installation provisions in guide referenced in paragraph above. Apply a continuous bead of glue to framing members at edges of wall sheathing panels. Screw to framing. Space panels 1/8 inch apart at edges and ends.

#### GYPSUM SHEATHING & SOFFIT INSTALLATION:

COMPLY WITH GA-253 and with manufacturer's written instructions. Fasten gypsum sheathing to cold-formed metal framing with screws. Install boards with a 3/8-inch gap where nonload-bearing construction abuts structural elements. Install boards with a 1/4-inch gap where they abut masonry or similar materials that might retain moisture, to prevent wicking. Apply fasteners so heads bear tightly against face of sheathing boards but do not cut into facing.

INSTALL WITH VERTICAL EDGES of boards centered over studs to minimize horizontal joints to the greatest extent feasible. Abut ends and edges of each board with those of adjacent boards. Attach boards at perimeter and within field of board to each stud.

SPACE FASTENERS approximately 8 inches o.c. and set back a minimum of 3/8 inch from edges and ends of boards. For sheathing under self-furring metal lath, boards may be initially tacked in place with screws if overlying metal lath is screw-attached through sheathing to studs immediately after sheathing is installed.

### SHEATHING JOINT-AND-PENETRATION TREATMENT

COMPLY WITH MANUFACTURER'S written instructions for installation of joint and penetration

GLASS-MAT GYPSUM SHEATHING: Apply glass-fiber sheathing joint tape to glass-mat gypsum sheathing board joints, and apply and trowel silicone emulsion sealant to embed entire face of tape in sealant. Apply sealant to all fastener heads with a trowel so fasteners are completely covered. Seal other penetrations and openings.

FINISH GLASS-MAT GYPSUM SOFFITS by applying joint tape over all joints and embed tape in setting-type joint compound as recommended by the manufacturer. Skim-coat the full exposed soffit area with setting-type joint compound for a smooth, flat, finish, ready for

SECURELY ATTACH to substrate by fastening as indicated, complying with the following:

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THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the

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Supplementary Conditions of the Contract, General Requirements, Specifications and other Drawings may affect the Work described. Failure to review and integrate the design intent of the whole of the Construction Documents does not relieve the Contractor from providing a complete Project. COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. VERIFY ACTUAL CONDITIONS and dimensions prior to construction. Commencement of work constitutes verification and acceptance of all existing conditions. Application of a material or equipment item to Work installed by others constitutes acceptance of that Work, and

assumption of responsibility for satisfactory installation, DIMENSIONS

SHOWN are to finish face of a material unless otherwise indicated.

CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless otherwise directed.

an integrated set of Construction Documents. General and

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SPECIFICATIONS

#### SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

vertical abutment of drywall work at other work.

PROVIDE SCREW-TYPE GYPSUM DRYWALL WITH METAL FRAMING SYSTEM(S) WHERE INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED TO MEET THE REQUIREMENTS OF THI CONSTRUCTION SHOWN IN THE CONTRACT DOCUMENTS.

METAL STUD FRAMING: PROVIDE ASTM C 645 metal studs of 0.015 minimum steel thickness with double-helix ribbing (dietrich ultrasteel) or 0.0179 inch thickness (25 gage) for typical flatsheet steel units x 3-5/8" depth unless otherwise noted. Provide runners matching studs, of type recommended by stud manufacturer for floor and ceiling support of studs, and for

TOP-OF-WALL DEFLECTION TRACK: provide deflection track assembly at all interior partitions to prevent compression of stud framing or cracking of gypsum board resulting from deflection of the structure above. Provide astm c 645 steel-sheet top-runner units of base metal thickness matching stud thickness with minimum 2-inch deep flange legs or other equivalent

TYPICAL GYPSUM WALLBOARD: ASTM C 1396 compliant type x (fire resistant) with tapered long edges, 5/8" thickness, except where otherwise indicated, in maximum length available which will minimize end joints.

WATER-RESISTANT GLASS-MAT GYPSUM BACKING BOARD (BEHIND ALL WALL TILE AND TILE BASE): 5/8" thick "denshield" fireguard by georgia-pacific in 4 foot wide panels by maximum length possible, complying with astm c 1396 and mold-resistant per astm d 3273, with glass mats both sides and tapered on long edges, with water-resistant treated core. Provide type s-12, bugle head, self-tapping, rust-resistant, fine thread panel anchors.

JOINT TREATMENT AT WATER-RESISTANT BACKING BOARD: "dow corning" 795, "pecora" 895, "ge" silicone silpruf sealant, or "tremco" dymonic joint sealer with 2" wide 10 x 10 glass mesh quick tape or equivalent, and finish with "g-p" gypsum setting-type joint compound

TRIM ACCESSORIES: provide manufacturer's standard trim accessories of types indicated for drywall work, formed of galvanized steel unless otherwise indicated, with either knurled and perforated or expanded flanges for nailing and beaded for concealment of flanges in joint compound. Provide corner beads, I-type edge trim-beads, u-type edge trim-beads, special Ikerf-type edge trim-beads. Stapling of trim accessories will not be permitted.

CONTROL JOINTS: provide 2 - standard I-type edge trim beads, in lieu of manufacturer's standard one-piece control joint beads.

JOINT COMPOUND: ASTM C 475; on interior work provide single, multi-purpose grade, readymixed vinyl-type, with perforated type paper joint tape.

GYPSUM BOARD FASTENERS: gypsum board screws: ASTM C 1002.

MISCELLANEOUS MATERIALS: provide auxiliary materials for gypsum drywall work of the type and grade recommended by the manufacturer gypsum boards.

#### INSTALLATION

PREPARATION FOR METAL SUPPORT SYSTEMS: coordinate work with structural ceiling work to ensure that inserts and other structural anchorage provisions have been installed to receive ceiling hangers. Furnish steel deck hanger clips and similar devices to other trades for installation well in advance of time needed for coordination with other work.

INSTALLATION OF WALL/PARTITION SUPPORT SYSTEMS: install supplementary framing, blocking and bracing to support fixtures, equipment, services, heavy trim, furnishings and similar work which cannot be adequately supported on gypsum board alone.

Isolate stud system from transfer of structural loading to system, both horizontally and vertically. Provide slip or cushioned type joints to attain lateral support and avoid axial loading. Install runner tracks at floors, ceilings and structural walls and columns where gypsum drywall stud system abuts other work, except as otherwise indicated. Terminate partition stud system at ceilings, except where indicated to be extended to structural support or substrate above.

Space studs 16" o.c., except as otherwise indicated. Provide runner tracks of same material thickness as jamb studs. Space jack studs same as partition studs.

AT DOOR OPENINGS, frame with 2 each 0.0329 inch (20 gage) studs extending to structural support above at both jambs, securely attached by screws either directly to door frames or to jamb anchor clips on door frame. Install runner track sections (for jack studs) at head and secure to jamb studs.

FRAME OPENINGS OTHER THAN DOOR OPENINGS in same manner as required for door openings; and install framing below sills of openings to match framing required above door

INSTALL supplementary framing, runners, furring, blocking and bracing at opening and terminations in the work, and at locations required to support fixtures, equipment, services, heavy trim, furnishings and similar work which cannot be adequately supported directly on gypsum board alone.

INSTALL exterior gypsum sheathing in accordance with manufacturer's instructions and applicable instructions in ga-253 and ASTM c 1280, with "gold" side out. Use maximum lengths possible to minimize number of joints. Attach sheathing to metal framing with screws spaced 8" o.c. at perimeter where there are framing supports; and 8" o.c. along intermediate framing in field. Drive fasteners to bear tight against and flush with surface of sheathing. Do not countersink. Locate fasteners minimum 3/8" from edges and ends of sheathing panels. Seal all fasteners and all joints with sealant, and apply reinforcing mesh over all joints with additional sealant applied over mesh.

# GENERAL GYPSUM BOARD INSTALLATION REQUIREMENTS:

INSTALL insulation where indicated, prior to gypsum board unless readily installed after board has been installed. Locate exposed end-butt joints as far from center of walls and ceilings as possible, and stagger not less than 1'-0" in alternate courses of board. Install ceiling boards in the direction and manner which will minimize the number of end-butt joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 1'-0".

INSTALL WALL/PARTITION BOARDS vertically to avoid end-butt joints wherever possible. At stairwells and similar high walls, install boards horizontally with end joints staggered over

INSTALL EXPOSED GYPSUM BOARD WITH FACE SIDE OUT. Do not install imperfect, damaged or damp boards. Butt boards together for a light contact at edges and ends with not more than 1/16" open space between boards. Do not force into place.

LOCATE either edge or end joints over supports, except in horizontal applications or where intermediate supports or gypsum board black-blocking is provided behind end joints. Position boards so that both tapered edge joints abut, and mill-cut or field-cut end joints abut. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions.

ATTACH gypsum board to framing and blocking as required for additional support at openings and cutouts. Form control joints and expansion joints with space between edges of boards, prepared to receive trim accessories. Cover both faces of steel stud partition framing with gypsum board in concealed spaces (above ceilings, etc.), except in chase walls which are properly braced internally.

Isolate perimeter of non-load-bearing drywall partitions at structural abutments. Provide 1/4" to ½" space and trim edge with j-type semi-finishing edge trim. Seal joints with acoustical sealant. Do not fasten drywall directly to stud system runner tracks.

Space fasteners in gypsum boards in accordance with referenced standards and manufacturer's recommendations. On partitions/walls apply gypsum board vertically (parallel), unless otherwise indicated, and provide sheet lengths which will minimize end joints. Fasten gypsum board supports with screws.

DIRECT-BONDING TO SUBSTRATE: where necessary to install gypsum board adhered directly to a substrate (other than studs, joints, furring members or base layer of gypsum board), comply with gypsum board manufacturers recommendations, and temporarily brace or fasten gypsum board until fastening adhesive has set.

INSTALLATION of drywall trim accessories: where feasible, use the same fasteners to anchor trim accessory flanges as required to fasten gypsum board to the supports. Otherwise, fasten flanges by nailing in accordance with manufacturer's instructions and recommendations. Install metal corner beads at external corners of drywall work.

INSTALL METAL EDGE TRIM whenever edge of gypsum board would otherwise be exposed or semi-exposed. Provide type with face flange to receive joint compound. Install I-type trim where work is tightly abutted to other work, and install special kerf-type where other work is kerfed to receive long leg of I- type trim. Install u-type where edge is exposed, revealed, gasketed, or sealant-filled (including expansion joints).

INSTALL METAL CONTROL JOINTS above both sides of all door frames, and as otherwise required not to exceed a 30'-0" maximum uninterrupted surface.

INSTALLATION OF DRYWALL FINISHING: apply treatment at gypsum board joints (both directions), flanges of trim accessories, penetrations, fasteners heads, surface defects and elsewhere as required to prepare work for decoration. Prefill open joints and rounded or beveled edges, using type of compound recommended by manufacturer. Apply joint tape at joints between gypsum boards, except where a trim accessory is indicated. Apply joint compound in three (3) coats (not including prefill of openings in base), and sand between last two (2) coats and after last coat. At water-resistant gypsum board base for ceramic tile, tape and finish joints with two (2) coats water-resistant joint material.

PARTIAL FINISHING: omit third coat (if specified) and sanding on concealed drywall work which is indicated for drywall finishing or which requires finishing to achieve fire resistance rating, sound rating or to act as air or smoke barrier. Refer to sections on painting, coating and wall-coverings in division 9 for decorative finishes to be applied to drywall work.

FINISH GYPSUM BOARD TO LEVELS INDICATED BELOW, ACCORDING TO ASTM C 840, FOR LOCATIONS INDICATED:

LEVEL 1 FINISH (TYPICAL AT CONCEALED AREAS): EMBED TAPE AT JOINTS IN CEILING PLENUM OR OTHER CONCEALED AREAS

LEVEL 4: (TYPICAL EXPOSED GYPSUM-BOARD FINISH): EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED. FINISH WATER-RESISTANT, GLASS-MAT GYPSUM BACKING BOARD TO COMPLY WITH GYPSUM BOARD MANUFACTURER'S DIRECTIONS

PROTECTION OF WORK: installer shall advise contractor of required procedures for protecting gypsum drywall work from damage and deterioration during remainder of construction period.

#### SECTION 09 91 00 - PAINTING

WORK INCLUDES surface preparation and painting or finishing of interior exposed to view, throughout the Project and in accordance with requirements herein. Except where a natural finish or a material is specifically noted as a surface not to be painted, paint all exposed surfaces whether or not painting is designated in the drawings. Where items or surfaces are not specifically mentioned, paint the same as similar adjacent materials or areas.

PAINTING NOT REQUIRED: Unless otherwise indicated, painting is not required on plastic laminate, prefinished sheet metal, plumbing fixtures, electrical equipment (excluding exposed distribution cabinet(s) or electrical devices. Painting is not required on surfaces such as walls or ceilings in concealed or inaccessible areas. Metal surfaces of anodized aluminum, stainless steel, chromium plate and similar finished materials will not require finish painting, except as otherwise indicated in the finish hardware schedule. Do not paint over coderequired labels or equipment identification labels.

PROVIDE PRIMERS and undercoat paints produced by the same manufacturer as the finish coats. Use only thinners approved by paint manufacturer, and use only within recommended

PREPARE surfaces and apply coatings in strict accordance with the coating manufacturer's recommendations.

USE ONLY SKILLED painters for mixing and applying paint. Quality workmanship is required. In he acceptance or rejection of tinish painting, no allowance will be made for the painters lack of skill or inadequate lighting during painting operations.

JOB CONDITIONS: Apply paints only when temperature of surfaces to be painted and surrounding air temperatures are within recommended range permitted by the paint manufacturer's printed instructions. Do not apply paint when relative humidity exceeds 85%, or to damp or wet surfaces.

PRODUCT STANDARDS & QUALITY: Comply with Master Painters Institute (MPI) standards indicated and provide products as listed in "MPI Approved Products List" available at www.paintinfo.com. Provide best quality grade of various types of coatings indicated as regularly manufactured by listed paint materials manufacturers. Materials not displaying manufacturers identification as a standard, best-grade product will not be acceptable.

conditions otherwise detrimental to formation of a durable paint film. Perform preparation and cleaning procedures in accordance with paint manufacturer's printed instructions for each particular substrate condition.

SURFACE PREPARATION: Clean surfaces of dirt, rust, scale, grease, moisture, or other

REMOVE hardware, accessories, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for complete painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.

CLEAN NONGALVANIZED FERROUS-METAL SURFACES that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with recommendations of the Steel Structures Painting Council.

TOUCH UP SHOP-APPLIED PRIME COATS that have been damaged. Wire-brush, clean with solvents recommended by the paint manufacturer, and touch up with the same primer as

MATERIALS PREPARATION: Carefully mix and prepare paint materials in accordance with manufacturer's directions. Maintain containers used in mixing and application of paint in a clean condition, free of foreign materials and residue. Stir material before application to produce a mixture of uniform density; stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using. Use only thinners approved by the paint manufacturer, and only within recommended limits.

APPLICATION: Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied. Use applicators and techniques best suited for substrate and type of material being applied. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.

SCHEDULING: Apply first-coat material to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration. Allow sufficient time between successive coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.

APPLY PAINT to completely cover previously painted surfaces, to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, spotting, holidays, lap marks, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.

THE NUMBER OF COATS and film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. Sand between applications where sanding is required to produce an even smooth surface in accordance with the manufacturer's directions.

APPLY ADDITIONAL PAINT coats when undercoats, stains or other conditions show through final coat of paint, until paint film is of uniform finish, color and appearance. Give special attention to insure that surfaces, including edges, corners, crevices, and exposed fasteners

recommended spreading rate. Provide a total dry film thickness of the entire system as recommended by the manufacturer.

PRIME COATS: Before application of finish coats, apply a prime coat of material as recommended by the manufacturer to material that is required to be painted or finished and has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to assure a finish coat with no burn through or other defects due to insufficient sealing.

FIELD QUALITY CONTROL: The Owner reserves the right to engage the services of an independent testing laboratory to sample the paint material being used. Samples of material delivered to the project may be taken, identified, sealed, and certified in the presence of the Contractor. The testing laboratory will perform appropriate tests as required by the Owner. If test results show material being used does not comply with specified requirements, the Contractor may be directed to stop painting, remove noncomplying paint, pay for testing, repaint surfaces coated with rejected paint, and remove rejected paint from previously painted surfaces if, upon repainting with specified paint, the two coatings are noncompatible.

CLEAN-UP: During the progress of the Work, remove from site discarded paint materials, rubbish, cans and rags at end of each work day. Upon completion of painting Work, clean window glass and other paint-spattered surfaces. Remove spattered paint or otherwise damage finish surfaces. Touchup and restore all damaged or defaced painted surfaces after

Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to Owner. Provide "wet paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

(RE: <u>www.paintinfo.com < http://www.paintinfo.com></u> for MPI's "Approved Product List")

**EXTERIOR PAINT FINISHES:** 

EXTERIOR DRYWALL SOFFITS: FLAT ACRYLIC LATEX: Primer: MPI # 6 2 Finish Coats: MPI # 10

receive a dry film thickness equivalent to that of flat surfaces.

MINIMUM COATING THICKNESS: Apply materials at not less than the manufacturer's

completion of Work of other trades. PROTECT work of other trades, whether to be painted or not, against damage by painting.

EXTERIOR ZINC-COATED METAL: SEMI-GLOSS ALKYD ENAMEL: Primer: MPI # 134 2 Finish Coats: MPI # 47

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CONDITIONS and dimensions prior to construction. Commencement of work constitutes verification and acceptance of all existing conditions. Application of a material or equipment item to Work installed by others constitutes acceptance of that Work, and assumption of responsibility for satisfactory installation, DIMENSIONS SHOWN are to finish face of a material unless otherwise indicated. CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless

otherwise directed.

until all permits and required approvals are obtained. VERIFY ACTUAL

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**project** number

**drawing** issuance

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DATE SIGNED: 06/14/2023 drawing title

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otherwise directed.

**project** title

RED DEVELOPMEN SUMMIT FAIR 910 G NW Blue Pkw Lee's Summit, MO 64

**project** number

**drawing** issuance

**drawing** revisions

No. Description:

professional seal

DATE SIGNED: 06-14-23

drawing title

MECHANICAL AND ELECTRICAL - ROOF PLAN **drawing** number

MECHANICAL AND ELECTRICAL ROOF PLAN 1

smith & boucher
engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
SBI PROJECT NUMBER: 2318400

LUI	MBING FIXTURE	SCHEDULE							
				FITTINGS		Р	IPING CON	INECTION	S
IARK	MANUFACTURER/ MODEL	DESCRIPTION	MANUFACTURER/ MODEL	DESCRIPTION	NOTES	CW	HW	SAN	VENT
S-1	ELKAY	ADA COMPLIANT SINGLE BOWL, UNDERMOUNT, 16 GAUGE, TYPE 304 STAINLESS STEEL,	MOEN	HIGH ARC SPOUT, REFLEX PULLDOWN FAUCET WITH BRAIDED HOSE, SWING	1, 2, 3, 4	1/2"	1/2"	2"	1-1/2"
	LWSB252264N	30-1/2" X 18-1/2" X 8" DEEP, REAR CENTER DRAIN	87912SRS	FAUCET SPOUT, SINGLE HOLE FAUCET DECK MOUNTED WITHOUT PLATE.					

1: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.

2: PROVIDE CHROME PLATED BRASS P-TRAP. 3: PROVIDE 1/4 TURN SHUT OFF VALVES AND FLEXIBLE RISERS.

4: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. COVER TAILPIECE, P-TRAP, AND ANY EXPOSED WASTE AND VENT PIPING WITH CROME COVER. REFER TO SPECIFICATIONS FOR INSULATION METHODS.

APPLICATION	SIZE	LOCATION	PIPE MATERIAL
DOMESTIC WATER	2" AND SMALLER	ABOVE GROUND	HARD COPPER TUBE, ASTM B88, TYPE L; CAST OR WROUGHT COPPER SOLDER-JO FITTINGS; AND BRAZED JOINTS.  OR  CPVC PIPE; CPVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
			OR PEX-A PIPE AND FITTINGS (FOR USE INSIDE DWELLING UNITS ONLY; NOT INTENDED FOR BUILDING MAINS). PEX-B PIPE AND FITTINGS NOT ALLOWED.
SOIL/WASTE/VENT	ALL SIZES	BELOW GROUND	HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY CAST-IRON HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS.  OR  SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
SOIL/WASTE/VENT	ALL SIZES	ABOVE GROUND	HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY CAST-IRON HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS.  OR  SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS. PVC SHALL NOT BE INSTALLED WITHIN RETURN AIR PLENUMS UNLESS FULLY ENCAPSULATED WITH PLENUM RATED MATERIAL.

PIPE INSULATION SCHEDULE - PLUMBING								
SERVICE	PIPE SIZE	INSULATION						
DOMESTIC COLD WATER	1/2" - 2"	1/2" FIBERGLASS, ASJ						
DOMESTIC HOT WATER								
RECIRCULATING HOT WATER	ALL	1" FIBERGLASS, ASJ						
TEMPERED WATER								

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SUMMIT FAIR 910 G NW Blue Pkw Lee's Summit, MO 64

**project** number

**drawing** issuance

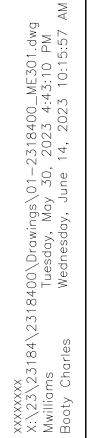
**drawing** revisions

No. Description:

professional seal

DATE SIGNED: 06/14/2023 smith & boucher
engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2318400

MECHANICAL AND ELECTRICAL -SCHEDULES AND DETAILS drawing number



#### 1.1 SUMMARY OF WORK

- A. THE CONTRACT DOCUMENTS REQUIRE THE FURNISHING AND INSTALLING OF COMPLETE FUNCTIONING MECHANICAL SYSTEMS, AND EACH ELEMENT THEREOF, AS SPECIFIED OR INDICATED IN THE CONTRACT DOCUMENTS OR REASONABLY INFERRED, TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION THE SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED, INCLUDING EVERY ARTICLE, DEVICE OR ACCESSORY, WHETHER OR NOT SPECIFICALLY CALLED FOR BY ITEM. ELEMENTS OF THE WORK INCLUDE MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, AND UTILITIES.
- B. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- C. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY EXPERIENCED MECHANICS OF THE PROPER TRADE.

### 1.2 COORDINATION, MEASUREMENTS AND LAYOUTS

- A. THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THE CONTRACTOR SHALL EMPLOY A COMPETENT FOREMAN ON THE JOB TO SEE THAT WORK IS DONE IN ACCORDANCE WITH THE BEST PRACTICES AND IN A SATISFACTORY AND WORKMANLIKE MANNER. THE FOREMAN SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND SHALL EXECUTE HIS WORK IN SUCH A MANNER AS NOT TO INTERFERE WITH OR DELAY THE WORK OF
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSION.

#### 1.3 PERMITS AND FEES

A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION, OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.

#### 1.4 SUBMITTALS, MATERIALS AND EQUIPMENT

- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED HEREIN, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.
- B. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SIX COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES. AFTER SUCH SHOP DRAWINGS ARE PROCESSED, THREE COPIES WILL BE RETURNED TO THE CONTRACTOR. THE CONTRACTOR SHALL, UPON RECEIPT OF REVIEWED SHOP DRAWINGS PROCEED WITH THE PROCUREMENT AND INSTALLATION OF SUCH EQUIPMENT.

#### 1.5 CODES, LAWS, AND STANDARDS

- A. ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL GOVERNING CODES, APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES OR STATUTES OF REGULATORY BODIES HAVING JURISDICTION. THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH SAID LAWS, REGULATIONS, ORDINANCES, STATUES OR CODES, WITHOUT INCREASED COST TO THE OWNER. ANY POINT IN QUESTION SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL. WORK INDICATED ON THE DOCUMENTS THAT IS IN EXCESS OF CODE REQUIREMENTS SHALL NOT BE REDUCED IN QUALITY AND/OR QUANTITY.
- B. COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMETNS AFFECTED BY CONNECTIONS OF SERVICES

# 1.6 RECORD DOCUMENTS

- A. THIS CONTRACTOR SHALL PREPARE A COMPLETE "AS-BUILT" SET OF DRAWINGS INCORPORATING ALL CHANGES MADE DURING CONSTRUCTION. LOCATION OF UNDERGROUND PIPING SHALL BE LOCATED BY DIMENSION FROM COLUMN LINES.
- B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S REPRESENTATIVE FIVE BOUND SETS OF OPERATING AND MAINTENANCE MANUALS INCLUDING FINAL COPIES OF EQUIPMENT SHOP DRAWINGS, MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT INSTALLED ON THE PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE AND OPERATING INSTRUCTIONS. MANUALS SHALL INCLUDE COPIES OF ALL EQUIPMENT WARRANTIES.

# 1.7 GUARANTEES AND WARRANTIES

- A. THE CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND THAT THE MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE UNDER THE SPECIFIED OPERATING CONDITIONS. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE APPARATUS WHICH PROVES OR BECOMES DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED. NO EQUIPMENT WARRANTY OR GUARANTEE SHALL START UNTIL THE TIME OF BUILDING ACCEPTANCE.
- B. ALL WARRANTIES ISSUED BY EQUIPMENT MANUFACTURERS SHALL BE FILLED OUT IN THE OWNER'S NAME AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF WORK PERFORMED UNDER THIS SECTION.

# 1.8 FINAL INSPECTION

A. AFTER COMPLETION OF THE ENTIRE PROJECT THE CONTRACTOR SHALL REQUEST FINAL INSPECTION OF THIS PROJECT IN WRITTEN FORM ADDRESSED TO THE ARCHITECT ALONG WITH A STATEMENT TO THE EFFECT THAT ALL INSTALLATIONS HAVE BEEN COMPLETED, CHECKED, ADJUSTED AND BALANCED IN ACCORDANCE WITH REQUIREMENTS OF THIS PROJECT. UPON RECEIPT OF WRITTEN NOTIFICATION OF COMPLETION AND REQUEST FOR FINAL INSPECTION THE ENGINEER WILL PERFORM A FINAL INSPECTION OF THIS WORK AND, IF ALL INSTALLATIONS ARE AS REPRESENTED BY THE CONTRACTOR, THE ENGINEER WILL SUBMIT WRITTEN RECOMMENDATION OF ACCEPTANCE.

# 1.9 CLEANING

- A. DIRT AND REFUSE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REMOVED TO KEEP THE PREMISES REASONABLE CLEAN AT ALL TIMES.
- B. AFTER COMPLETION OF THE WORK DESCRIBED IN THIS SPECIFICATION AND SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED SURFACES AND EQUIPMENT, REMOVE ALL DIRT, DEBRIS, CRATING, CARTONS, ETC., AND LEAVE ALL INSTALLATIONS FINISHED AND READY FOR OPERATION.

# 1.10 OPENINGS AND SLEEVES

- A. IN FIRE RATED WALLS: CAULKING SHALL BE A PURE CERAMIC FIBER MADE OF ALUMINA-SILICA, "CERAFIBER-FS" BY JOHNS-MANVILLE. SEALANT SHALL BE GUN GRADE. AN ACRYLIC 2-PART GUN APPLIED, FIRE RETARDANT ELASTIC SEALANT, "DYMERIC" BY TREMCO OR EQUAL BY PERMATITE NO. 1113FR.
- 1. LIMIT THE SIZE OF THE SPACE BETWEEN THE WALL OR FLOOR AND THE OUTSIDE OF THE PIPE OR DUCT TO 1 INCH MAXIMUM. THIS SPACE IS SUFFICIENT TO ALLOW SOME MOVEMENT OF THE PIPES OR DUCT WITHOUT CRACKING THE CAULKING OR SEALANT.
- 2. FOR OPENINGS IN WALLS, THE CAULKING SHALL BE APPLIED TO A MINIMUM OF 3 INCH TOTAL DEPTH. SEALANT SHALL THEN BE APPLIED ON BOTH SIDES OF THE WALL OPENING A MINIMUM OF 1/2 INCH IN DEPTH, FINISHED FLUSH WITH THE WALL. D.

#### 1.11 CUTTING AND PATCHING

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING OF WALLS, FLOORS, CEILINGS AND ROOFS REQUIRED FOR PERFORMANCE OF HIS WORK.
- B. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT.
- C. PATCH ALL OPENINGS TO MATCH ADJACENT CONSTRUCTION IN BOTH MATERIAL AND
- D. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING" AND SHALL BE PERFORMED BY THIS CONTRACTOR.

#### 1.12 DEMOLITION AND NEW WORK

- A. THE CONTRACTOR SHALL DO ALL DEMOLITION, ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED TO MAINTAIN THE OPERATION OF ALL EXISTING HVAC SYSTEMS AND TO INTEGRATE THE NEW SYSTEMS IN THE RENOVATED BUILDING AS REQUIRED. THE CONTRACTOR SHALL INCLUDE ALL WORK WHICH MAY BE REQUIRED TO ALTERATIONS AND DEMOLITION WORK. THIS SHALL INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF PIPING, ITEMS OF HVAC EQUIPMENT, ETC. EXISTING SYSTEMS AND NEW SYSTEMS SHALL BE COMPLETELY INTEGRATED AS INTENDED AND AS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.
- B. THE CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF PROPERLY ALL EXISTING MATERIAL AND EQUIPMENT WHICH NO LONGER SERVES A PURPOSE IN ALTERED AREAS. THE CONTRACTOR SHALL REMOVE UNUSED DUCTWORK AND PIPING. REMOVE PIPING CONNECTED TO EQUIPMENT BACK TO MAIN AND CAP. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN SERVICES TO ALL EXISTING AREAS REQUIRING SUCH SERVICES. THE CONTRACTOR SHALL REROUTE AS REQUIRED SUCH SERVICES WHERE ARE DISRUPTED DUE TO ARCHITECTURAL CHANGES IN THE EXISTING STRUCTURE. ANY EQUIPMENT WHICH IS DESIGNATED TO BE REUSED AND WHICH IS DAMAGED IN THE PROCESS SHALL BE REPLACED BY THE CONTRACTOR WITH NEW EQUIPMENT OF LIKE KIND AT NO COST TO THE OWNER.

#### 1.13 INTERRUPTION OF SERVICES

A. THE CONTRACTOR SHALL SCHEDULE ANY SERVICE INTERRUPTIONS TO THE EXISTING BUILDING WITH THE OWNER'S REPRESENTATIVE. SUCH INTERRUPTIONS SHALL BE PLANNED SO AS TO BE AT TIMES TO CAUSE THE LEAST INCONVENIENCE AND INTERRUPTION TO THE FACILITY'S SCHEDULE.

#### 1.14 EXISTING CONDITIONS

ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS FOR THIS PROJECT HAVE BEEN DETERMINED FROM AVAILABLE DRAWINGS AND FIELD INVESTIGATIONS. CONTRACTORS MAKING PROPOSALS FOR THIS WORK SHALL INVESTIGATE ALL EXISTING CONDITIONS AND BASE THEIR PROPOSALS ON THEIR OBSERVATIONS TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS IN ACCORDANCE WITH THE INTENT OF THE DRAWING AND SPECIFICATIONS FOR THIS PROJECT AND ALL APPLICABLE GOVERNING CODES, RULES, REGULATIONS AND ORDINANCES. FAILURE TO DETERMINE EXISTING CONDITIONS WHICH CAUSE ADDITIONAL WORK WILL NOT CONSTITUTE GROUNDS FOR ADDITIONAL COMPENSATION.

#### PART 2 - HEATING, VENTILATING AND AIR CONDITIONING

#### 2.1 GENERAL REQUIREMENTS

A. SEE PART 1 FOR GENERAL REQUIREMENTS.

#### 2.2 SHEET METAL DUCTWORK

- A. SHEET METAL DUCTS AND CONNECTIONS SHALL BE CONSTRUCTED OF G90 GALVANIZED SHEETS OF MILD STEEL. THE DUCTS SHALL BE CONSTRUCTED TO THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) STANDARDS. SEE PLANS FOR DUCTWORK SCHEDULE.
- B. DUCT SECTIONS SHALL BE JOINED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION AND REQUIREMENTS OF THE BUILDING CODE HAVING JURISDICTION.
- C. DUCT DIMENSIONS SHOWN ARE SHEET METAL DIMENSIONS AND DO NOT NEED TO BE ADJUSTED FOR INSULATION/LINING.
- D. CURVED ELBOWS SHALL BE CONSTRUCTED WITH INSIDE RADIUS NOT LESS THAN THE DUCT WIDTH IN THE SAME PLANE. SQUARE ELBOWS SHALL HAVE TURNING VANES. TURNING VANES SHALL BE DESIGNED IN ACCORDANCE WITH ASHRAE RECOMMENDATIONS. MANUFACTURED VANES SHALL BE BY TITUS OR APPROVED EQUAL.
- E. CROSSBREAK ALL DUCTWORK SURFACES OVER 18 INCHES IN WIDTH.
- F. FULL AREAS SHALL BE MAINTAINED IN TRANSITIONS WHERE A CHANGE IN THE CONFIGURATION OF THE DUCT OCCURS. ALL TAPERING JOINTS SHALL BE REDUCED GRADUALLY.
- G. JOINTS IN DUCTS SHALL BE MADE PRACTICALLY AIRTIGHT AND ANY OPEN CORNER SHALL BE NEATLY PATCHED AND SOLDERED TIGHT. DUCT TAPE WILL NOT BE ACCEPTED AS A JOINT PATCH. LOW PRESSURE SYSTEM DUCT LEAKAGE SHALL NOT EXCEED 2%.
- H. CONCEALED ROUND DUCTS SHALL BE CONSTRUCTED TO SMACNA 2" W.G. STANDARDS WITH GROOVED LONGITUDINAL SEAMS AND SLEEVED TYPE TRANSVERSE JOINTS.
- I. EXPOSED ROUND DUCTS SHALL BE CONSTRUCTED TO SMACNA 10" W.G. STANDARDS, SPIRAL LOCK SEAM DUCT AND FITTINGS.

# 2.3 FLEXIBLE DUCT

A. FLEXIBLE DUCTS SHALL BE UL181 CLASS THERMAFLEX M-KE, OR APPROVED EQUAL, SHALL NOT BE LONGER THAN 8 FEET AND SHALL NOT HAVE ANY AIR FLOW OBSTRUCTION.

# 2.4 DUCTWORK SUPPORTS

A. ALL HORIZONTAL DUCTS SHALL BE SUPPORTED WITH HANGERS SPACED NOT MORE THAN 8'-0" APART. HANGERS FOR DUCTS SMALLER THAN 31 INCHES SHALL CONSIST OF 22 GUAGE GALVANIZED STEEL STRAPS SECURELY FASTENED TO THE DUCT AND THE BUILDING CONSTRUCTION. DUCTS OVER 31 INCHES IN WIDTH SHALL BE HUNG WITH 1/4 INCH STEEL ANGLE ON THE BOTTOM OF THE DUCT SUPPORTED WITH STEEL RODS OF APPROPRIATE SIZE SECURELY FASTENED TO THE BUILDING STRUCTURE. ALL SUPPORTS TO MEET SMACNA STANDARDS.

# 2.5 DUCTWORK INSULATION

- A. SEE PLANS FOR DUCTWORK INSULATION SCHEDULE. ALL INSULATED DUCTWORK SHALL BE INSULATED WITH 1-1/2 INCH THICK, 1.5 POUND PER CUBIC FOOT DENSITY, CERTAIN-TEED DUCT WRAP INSULATION FACED ON ONE SIDE WITH .002 INCH ALUMINUM FOIL WITH A 2 INCH TAB, OR EQUAL PRODUCTS BY MANVILLE, KNAUF INSULATION, OR OWENS CORNING UNLESS NOTED OTHERWISE ON THE DRAWINGS. INSULATION SHALL BE APPLIED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. ALL INSULATION SHALL BE UL LISTED; FLAME SPREAD/FUEL CONTRIBUTED/SMOKE DEVELOPED RATING OF 25/50/50 OR LESS IN ACCORDANCE WITH ASTM E84, NFPA 255 AND UL 723.

# 2.6 GRILLES, REGISTERS, DIFFUSERS AND LOUVERS

- A. FURNISH AND INSTALL ALL GRILLES, REGISTERS, DIFFUSERS AND LOUVERS AS SHOWN AND DESCRIBED ON THE DRAWINGS OR COMPARABLE PRODUCTS OF TITUS OR PRICE.
- B. THE CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR OF THE REQUIREMENTS FOR OPENING SIZES AND FRAMING FOR ALL EQUIPMENT AND SHALL COORDINATE THE INSTALLATION OF ALL SUCH EQUIPMENT WITH THE STRUCTURAL REQUIREMENTS OF THIS

# 2.7 START-UP/TESTING, ADJUSTING, BALANCING

- A. THE CONTRACTOR SHALL COMPLETE ALL EQUIPMENT INSTALLATIONS, CHECK ALL CONTROL WIRING, START UP AND ADJUST ALL EQUIPMENT AND PLACE ALL SYSTEMS IN OPERATION.
- B. AFTER COMPLETION AND START-UP OF ALL SYSTEMS THE CONTRACTOR SHALL ARRANGE FOR TESTING, ADJUSTING AND BALANCING OF ALL AIR SYSTEMS.
- C. TESTING, ADJUSTING AND BALANCING OF ALL AIR SYSTEMS SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH NEBB OR SMACNA STANDARDS.
- D. UPON COMPLETION OF TESTING, ADJUSTING AND BALANCING, A COMPLETE REPORT OF ALL FINDINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THIS PROJECT. THREE COPIES OF THE REPORT SHALL BE PROVIDED.

#### 2.8 DAMPERS

A. VOLUME BALANCING DAMPERS SHALL BE RUSKIN CD-35/CDR-25 OR APPROVED EQUAL THE DAMPERS SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL, 6 INCH WIDE OPPOSED BLADES AND THE LINKAGE CONCEALED IN FRAME.

- A. PAINTING, EXCEPT AS SPECIFIED HEREIN, SHALL BE DONE BY OTHERS.
- B. EQUIPMENT WHICH HAS DAMAGED FINISH SHALL BE REPAINTED TO MATCH THE ORIGINAL
- C. ALL EXPOSED FERROUS METAL FURNISHED UNDER THIS CONTRACT, SUCH AS HANGERS,

#### PART 3 - PLUMBING

#### 3.1 GENERAL REQUIREMENTS

A. SEE PART 1 FOR GENERAL REQUIREMENTS.

- A. ENDS OF PIPE SHALL BE REAMED AND ALL BURRS REMOVED BEFORE INSTALLATION PIPING SHALL BE CUT ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB AND SHALL BE INSTALLED WITH AMPLE CLEARANCE FOR INSTALLATION OF COVERINGS.
- B. AT LEAST ONE PIPE UNION SHALL BE INSTALLED ADJACENT TO ALL VALVES THAT ARE SCREWED. HOT AND COLD SUPPLIES TO EACH FIXTURE AND WATER HEATER SHALL BE VALVED SEPARATELY AT THE FIXTURE. ALL SUPPLY PIPES TERMINATING AT VALVES OR FIXTURES SHALL BE PROVIDED WITH A WATER HAMMER ARRESTOR OF SUFFICIENT CAPACITY TO PREVENT WATER HAMMER.
- C. ALL HOT AND COLD WATER BRANCH LINES SHALL BE VALVED IN AN ACCESSIBLE LOCATION.

#### 3.3 PIPING JOINTS

- A. THREADED JOINTS SHALL BE CUT FULL AND CLEAN, WITH NOT MORE THAN THREE THREADS EXPOSED BEYOND FITTINGS. JOINTS SHALL BE MADE UP TIGHT WITH GRAPHITE BASE PIPE JOINT COMPOUND APPLIED TO MALE THREADS ONLY. EXPOSED THREADS OF FERROUS PIPE SHALL BE PAINTED WITH ACID-RESISTING PAINT AFTER PIPING HAS BEEN TESTED AND PROVEN TIGHT. NO CAULKING, LAMP WICK OR OTHER MATERIAL WILL BE ALLOWED FOR CORRECTION OF DEFECTIVE JOINTS.
- B. SWEAT OR SOLDERED JOINTS IN COPPER WATER PIPING SHALL BE MADE BY THE APPROPRIATE USE OF APPROVED BRASS WATER FITTINGS PROPERLY SWEATED OR SOLDERED TOGETHER. FLARED JOINTS WHERE SPECIFIED FOR SOFT COPPER TUBING SHALL BE MADE WITH FITTINGS MEETING APPROVED STANDARDS. SURFACES TO BE SOLDERED OR SWEAT SHALL BE CLEANED BRIGHT, PROPERLY FLUXED WITH APPROVED NONCORROSIVE PASTE TYPE FLUX AND MADE WITH 95-5 OR 94-6 SOLDER. THE USE OF SELF-CLEANING FLUXES, 50-50 SOLDER OR PASTE TYPE SOLDER IS PROHIBITED. FLARED JOINTS SHALL BE MADE BY EXPANDING THE TUBE WITH A PROPER FLARING TOOL. ALL TUBES SHALL BE PROPERLY REAMED.

#### 3.4 DOMESTIC HOT AND COLD WATER PIPING

- A. ALL DOMESTIC HOT AND COLD WATER PIPING WITHIN THE BUILDING SHALL BE COPPER. UNDERGROUND WATER SERVICE OUTSIDE OF THE BUILDING MAY BE TYPE "K" SOFT TEMPER COPPER OR DUCTILE IRON OR CAST IRON PIPE WITH SUPER BELL-TITE, MECHANICAL OR FLANGED JOINTS.
- B. COPPER PIPING INSTALLED UNDERGROUND SHALL BE SOFT TEMPER TYPE "K" AND INSTALLED WITHOUT JOINTS.
- C. ALL OTHER COPPER PIPING SHALL BE HARD TEMPER TYPE "L". ALL COPPER PIPING SHALL CONFORM TO ASTM-B-88 REQUIREMENTS. SERVICE PIPING OF CAST IRON OF DUCTILE IRON PIPE SHALL CONFORM TO USASI, AWWA AND FEDERAL SPECIFICATIONS.
- D. FITTINGS FOR USE WITH TYPE "K" AND "L" COPPER PIPING SHALL BE WROUGHT COPPER SOLDER-JOINT. UNIONS SHALL BE GROUND JOINT TYPE AND SHALL BE INSTALLED WHERE NECESSARY TO PROVIDE EASE OF DISCONNECTION OF THE PIPING SYSTEM. PRESS FITTINGS FOR COPPER WATER PIPING ARE ACCEPTABLE WHERE PERMITTED BY GOVERNING CODES.

# 3.5 VALVES FOR DOMESTIC WATER

A. FOR PIPING 1/2" - 2": MILWAUKEE BA-150 BALL VALE, BRONZE, TEFLON SEATS AND PACKING, 400 LBS W.O.G., SOLDER END.

# 3.6 INSULATION

- A. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED WITH CERTAIN-TEED GLASS FIBER PIPE INSULATION IN MOLDED SECTIONS WITH FACTORY APPLIED ALL SERVICE VAPOR BARRIER JACKET OR APPROVED EQUAL. THE END JOINT STRIPS AND OVERLAP SEAMS SHALL BE SEALED WITH A VAPOR BARRIER MASTIC AND STAPLED WITH OUTWARD CLINCHING STAPLES SPACED NOT TO EXCEED 4" CENTERS. STAPLES AND SEAMS SHALL BE SEALED WITH A COAT OF VAPOR BARRIER MASTIC. JOINTS SHALL BE COVERED BY JOINT
- B. ALL PIPING SURFACES TO BE INSULATED SHALL BE CLEAN AND DRY AND PIPING SHALL HAVE BEEN TESTED AND APPROVED BEFORE THE INSULATION IS APPLIED.
- C. ALL VALVES, FITTINGS AND FLANGES SHALL BE INSULATED WITH CERTAIN-TEED GLASS FIBER PIPE INSULATION, OR APPROVED EQUAL. INSULATION SHALL BE SECURELY HELD IN PLACE AND COVERED WITH ZESTON PRE-MOLDED PVC FITTING COVERS. FITTING COVERS MAY BE PROVIDED WITH FIBERGLASS INSULATION INSERTS.
- D. ALL PIPE INSULATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY AN INSULATION CONTRACTOR REGULARLY ENGAGED IN INSULATION WORK.

# 3.7 PIPE HANGERS AND SUPPORTS

- A. ALL NON-INSULATED COPPER PIPING SHALL BE SUPPORTED BY ANVIL FIGURE CT65 COPPER PLATED CARBON STEEL HANGERS.
- B. NON-INSULATED STEEL PIPING 2" AND SMALLER SHALL BE SUPPORTED BY ANVIL FIGURE 108 SPLIT PIPE RING HANGER WITH FIGURE 114 TURNBUCKLE ADJUSTER. NON-INSULATED STEEL PIPING 2-1/2" AND LARGER SHALL BE SUPPORTED BY ANVIL 260 HANGERS WITH TURNBUCKLE ADJUSTERS.
- C. ALL INSULATED PIPING SHALL BE PROVIDED WITH ANVIL FIGURE 260 ADJUSTABLE CLEVIS HANGER WITH #168 SHIELD. HANGER SHALL BE INSTALLED EXTERIOR TO INSULATION UNLESS OTHERWISE NOTED OR SPECIFIED.
- D. ALL HANGERS SHALL UTILIZE THREADED RODS. NO PERFORATED STRAP IRON HANGERS OR WIRE HANGERS WILL BE ALLOWED.
- E. HANGERS AND SUPPORTS SHALL BE SPACES AS FOLLOWS:
- 1. COPPER PIPE: 1-1/4" AND SMALLER 6 FEET, 1-1/2" AND LARGER 10 FEET. 2. STEEL PIPE: 1" AND SMALLER - 8 FEET, 1-1/4" AND LARGER - 10 FEET.
- F. PROVIDE ANVIL FIGURE CT-121 RISER CLAMP FOR COPPER PIPING UP THROUGH 4". PROVIDE VERTICAL SUPPORT EVERY 10 FEET.
- G. STEEL AND CAST IRON PIPE PROVIDE ANVIL FIGURE 261 RISER CLAMP FOR PIPING 1-1/2" AND SMALLER AND FIGURE 40 RISER CLAMP FOR PIPING ABOVE 2". PROVIDE VERTICAL SUPPORT EVERY 15 FEET.

# 3.8 TESTING

- A. ALL PLUMBING SYSTEMS INSTALLED UNDER THIS SECTION OF THESE SPECIFICATIONS SHALL BE TESTED AND APPROVED AS HEREIN DESCRIBED AND AS REQUIRED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
- B. THE WATER SYSTEM TEST PROCEDURE SHALL CONSIST OF CHARGING THE ENTIRE SYSTEM TO OPERATING PRESSURE AND THEN ISOLATING THE SYSTEM FROM ITS SOURCE. THE SYSTEM SHALL REMAIN CLOSED FOR A PERIOD OF 24 HOURS WITH NO FIXTURE BEING USED. THE PRESSURE DIFFERENTIAL FOR THIS 24-HOUR PERIOD SHALL NOT EXCEED 5
- C. THE INSPECTION AUTHORITY HAVING JURISDICTION AND THE ARCHITECT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO PERFORMANCE OF ALL TESTS SO THAT THE TESTS MAY BE WITNESSED IF DEEMED NECESSARY.



### 2.9 PAINTING: (SEE ARCHITECTURAL SECTION "PAINTING")

- STRUTS, STRUCTURAL STEEL, ETC., SHALL BE GIVEN ONE COAT OF TNEMEC GRAY PRIMER.



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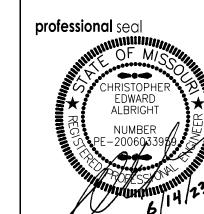
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Permit Set drawing revisions

Description

drawing issuance



DATE SIGNED: 06/14/2023 drawing title

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25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617

project number 2318400

MECHANICAL AND ELECTRICAL -SPECIFICATIONS

#### 1.1 SUMMARY OF WORK

- A. THE CONTRACT DOCUMENTS REQUIRE THE FURNISHING AND INSTALLING OF COMPLETE FUNCTIONING ELECTRICAL SYSTEMS, AND EACH ELEMENT THEREOF, AS SPECIFIED OR INDICATED IN THE CONTRACT DOCUMENTS OR REASONABLY INFERRED, TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION THE SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED, INCLUDING EVERY ARTICLE, DEVICE OR ACCESSORY, WHETHER OR NOT SPECIFICALLY CALLED FOR BY ITEM. ELEMENTS OF THE WORK INCLUDE MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, AND
- B. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- C. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY EXPERIENCED MECHANICS OF THE PROPER TRADE.
- 1.2 COORDINATION, MEASUREMENTS AND LAYOUTS
- A. THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THE CONTRACTOR SHALL EMPLOY A COMPETENT FOREMAN ON THE JOB TO SEE THAT WORK IS DONE IN ACCORDANCE WITH THE BEST PRACTICES AND IN A SATISFACTORY AND WORKMANLIKE MANNER. THE FOREMAN SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND SHALL EXECUTE HIS WORK IN SUCH A MANNER AS NOT TO INTERFERE WITH OR DELAY THE WORK OF
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSION.

#### 1.3 PERMITS AND FEES

- A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION, OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.
- 1.4 SUBMITTALS, MATERIALS AND EQUIPMENT
- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED HEREIN, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.
- B. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SIX COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES. AFTER SUCH SHOP DRAWINGS ARE PROCESSED, THREE COPIES WILL BE RETURNED TO THE CONTRACTOR. THE CONTRACTOR SHALL, UPON RECEIPT OF REVIEWED SHOP DRAWINGS PROCEED WITH THE PROCUREMENT AND INSTALLATION OF SUCH EQUIPMENT.

### 1.5 CODES, LAWS, AND STANDARDS

- A. ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE NATIONAL ELECTRICAL SAFETY CODE, AND ALL GOVERNING CODES, APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES OR STATUTES OF REGULATORY BODIES HAVING JURISDICTION. THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH SAID LAWS, REGULATIONS, ORDINANCES, STATUES OR CODES, WITHOUT INCREASED COST TO THE OWNER. ANY POINT IN QUESTION SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL. WORK INDICATED ON THE DOCUMENTS THAT IS IN EXCESS OF CODE REQUIREMENTS SHALL NOT BE REDUCED IN QUALITY AND/OR
- B. COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMETNS AFFECTED BY CONNECTIONS OF SERVICES.

# 1.6 RECORD DOCUMENTS

- A. THIS CONTRACTOR SHALL PREPARE A COMPLETE "AS-BUILT" SET OF DRAWINGS INCORPORATING ALL CHANGES MADE DURING CONSTRUCTION. LOCATION OF UNDERGROUND CONDUIT SHALL BE LOCATED BY DIMENSION FROM COLUMN LINES.
- B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S REPRESENTATIVE FIVE BOUND SETS OF OPERATING AND MAINTENANCE MANUALS INCLUDING FINAL COPIES OF EQUIPMENT SHOP DRAWINGS, MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT INSTALLED ON THE PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE AND OPERATING INSTRUCTIONS. MANUALS SHALL INCLUDE COPIES OF ALL EQUIPMENT WARRANTIES.

# 1.7 GUARANTEES AND WARRANTIES

- A. THE CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND THAT THE MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE UNDER THE SPECIFIED OPERATING CONDITIONS. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE APPARATUS WHICH PROVES OR BECOMES DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED. NO EQUIPMENT WARRANTY OR GUARANTEE SHALL START UNTIL THE TIME OF BUILDING ACCEPTANCE.
- B. ALL WARRANTIES ISSUED BY EQUIPMENT MANUFACTURERS SHALL BE FILLED OUT IN THE OWNER'S NAME AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF WORK PERFORMED UNDER THIS SECTION.

# 1.8 FINAL INSPECTION

A. AFTER COMPLETION OF THE ENTIRE PROJECT THE CONTRACTOR SHALL REQUEST FINAL INSPECTION OF THIS PROJECT IN WRITTEN FORM ADDRESSED TO THE ARCHITECT ALONG WITH A STATEMENT TO THE EFFECT THAT ALL INSTALLATIONS HAVE BEEN COMPLETED, CHECKED, ADJUSTED AND BALANCED IN ACCORDANCE WITH REQUIREMENTS OF THIS PROJECT. UPON RECEIPT OF WRITTEN NOTIFICATION OF COMPLETION AND REQUEST FOR FINAL INSPECTION THE ENGINEER WILL PERFORM A FINAL INSPECTION OF THIS WORK AND, IF ALL INSTALLATIONS ARE AS REPRESENTED BY THE CONTRACTOR, THE ENGINEER WILL SUBMIT WRITTEN RECOMMENDATION OF ACCEPTANCE.

# 1.9 CLEANING

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A. DIRT AND REFUSE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REMOVED TO KEEP THE PREMISES REASONABLE CLEAN AT ALL TIMES.

INSTALLATIONS FINISHED AND READY FOR OPERATION.

B. AFTER COMPLETION OF THE WORK DESCRIBED IN THIS SPECIFICATION AND SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED SURFACES AND EQUIPMENT, REMOVE ALL DIRT, DEBRIS, CRATING, CARTONS, ETC., AND LEAVE ALL

# 1.10 OPENINGS AND SLEEVES

- A. ALL PIPING THROUGH EXTERIOR OR FOUNDATION WALLS SHALL PASS THROUGH SCHEDULE 40 GALVANIZED STEEL SLEEVES WHICH SHALL BE LARGE ENOUGH TO ALLOW FOR PIPE SEAL MATERIAL. SLEEVES IN NEW CONSTRUCTION SHALL HAVE A MINIMUM 2 INCH WATERSTOP IN THE CENTER OF THE SLEEVE. NO SLEEVES ARE PERMITTED THROUGH CONCRETE STRUCTURAL MEMBERS.
- 1. SPACE BETWEEN PIPE AND SLEEVE IN EXTERIOR UNDERGROOUND WALLS SHALL BE SEALED WITH LINK-SEAL, FLEXICRAFT OR METRAFLEX LINK STYLE PIPE SEALS.
- 2. IN ABOVE GRADE EXTERIOR WALLS PACK THE SPACE BETWEEN PIPE AND SLEEVE WITH MINERAL WOOL AND THEN COMPLETE SEAL WITH APPROVED CAULKING COMPOUND FLUSH WITH FINISHED SURFACE. PROVIDE PIPE COLLAR ON INTERIOR SIDE OF WALL.
- B. ALL PIPING THROUGH FLOORS SHALL BE PROVIDED WITH SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, EXTENDING 1 INCH ABOVE THE FLOOR.

- C. IN FIRE RATED WALLS: CAULKING SHALL BE A PURE CERAMIC FIBER MADE OF ALUMINA-SILICA, "CERAFIBER-FS" BY JOHNS-MANVILLE. SEALANT SHALL BE GUN GRADE. AN ACRYLIC 2-PART GUN APPLIED, FIRE RETARDANT ELASTIC SEALANT, "DYMERIC" BY TREMCO OR EQUAL BY PERMATITE NO. 1113FR.
- 1. LIMIT THE SIZE OF THE SPACE BETWEEN THE WALL OR FLOOR AND THE OUTSIDE OF THE PIPE OR DUCT TO 1 INCH MAXIMUM. THIS SPACE IS SUFFICIENT TO ALLOW SOME MOVEMENT OF THE PIPES OR DUCT WITHOUT CRACKING THE CAULKING OR SEALANT.
- 2. FOR OPENINGS IN WALLS, THE CAULKING SHALL BE APPLIED TO A MINIMUM OF 3 INCH TOTAL DEPTH. SEALANT SHALL THEN BE APPLIED ON BOTH SIDES OF THE WALL OPENING A MINIMUM OF 1/2 INCH IN DEPTH, FINISHED FLUSH WITH THE WALL. D.
- D. FOR OPENINGS IN FLOORS, THE CAULKING SHALL BE APPLIED FROM THE UPPER SIDE TO A MINIMUM OF 3 INCH TOTAL DEPTH RECESSED 1/2 INCH BELOW THE FINISHED FLOOR. THIS 1/2 INCH RECESS SHALL THEN BE FILLED WITH SEALANT TO FLUSH WITH FINISHED FLOOR.

#### 1.11 CUTTING AND PATCHING

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING OF WALLS, FLOORS, CEILINGS AND ROOFS REQUIRED FOR PERFORMANCE OF HIS WORK.
- B. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT.
- C. PATCH ALL OPENINGS TO MATCH ADJACENT CONSTRUCTION IN BOTH MATERIAL AND FINISH.
- D. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING" AND SHALL BE PERFORMED BY THIS CONTRACTOR.

#### 1.12 EXCAVATION AND BACKFILL

- A. ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
- B. NO EXCAVATION AND BACKFILL SHALL BE DONE WITHIN DRIP LINE OF TREES TO REMAIN. NO TREE SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
- C. CONTRACTOR SHALL PROVIDE PROTECTION FOR TREES WITHIN 15 FEET OF UTILITY EXCAVATION.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL TRENCH AREAS AND MAINTAINING A DRY EXCAVATION. ANY DEWATERING OF TRENCHES/EXCAVATION SHALL BE PROVIDED PRIOR TO INSTALLING ANY MATERIAL.
- E. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL NECESSARY BARRICADES, FENCING, BRACING, SHEET PILING, SHORING, WARNING SIGNS, PUMPS, ETC., FOR THE PROTECTION OF WORKERS, GENERAL PUBLIC, AND PROPERTIES. EXCAVATION WORK SHALL COMPLY WITH ASA STANDARD A10.2 "SAFETY CODE FOR BUILDING CONSTRUCTION" AND AGC STANDARD "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AND THE DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH (OSHA) STANDARDS.
- F. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY OWNER IMMEDIATELY FOR DIRECTIONS.
- DURING EXCAVATION, CONSULT UTILITY OWNER IMMEDIATELY FOR DIRECTIONS.

  G. ALL TRENCHES SHALL BE UNIFORMLY GRADED AND BE FREE OF SOFT SPOTS AND STONE. PROVIDE A 4 INCH SAND BED.
- H. BACKFILL SHALL NOT BEGIN UNTIL INSTALLATION HAS BEEN TESTED AND INSPECTED. CONTRACTOR SHALL CONSULT WITH THE AUTHORITY HAVING JURISDICTION AND THE ARCHITECT/ENGINEER PRIOR TO BACKFILLING.
- 1. INITIAL BACKFILL SHALL BE SAND TO A POINT 6 INCHES ABOVE TOP OF INSTALLED WORK.
- 2. FINAL BACKFILL SHALL BE INSTALLED IN LAYERS NOT EXCEEDING 12 INCHES. FILL SHALL BE WELL TAMPED BEFORE ADDITIONAL BACKFILL MATERIAL IS PLACED. BACKFILL SHALL CONSIST OF EARTH OR SAND FREE OF STONE, BRICKS, OR FOREIGN MATTER.
- I. ALL EXCESS EARTH AND OTHER MATERIAL RESULTING FROM THE EXCAVATION SHALL BE REMOVED FROM SITE BY THE CONTRACTOR OR MAY BE PILED AT A LOCATION DESIGNATED AND APPROVED BY THE OWNER. ALL DEBRIS, ROCK AND TRASH SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE REMOVED FROM THE SITE. STREETS, ROADWAYS AND PRIVATE PROPERTY SHALL BE KEPT IN A CLEAN CONDITION.
- J. WHEN THE EXCAVATION IS WITHIN THE AREA WHERE FINISHED SITE WORK IS TO BE DONE UNDER THE GENERAL CONTRACT WORK, BACKFILL TO THE HEIGHT OF ROUGH GRADE. FINAL SURFACING WILL BE UNDER GENERAL CONTRACT WORK.
- K. WHEN THE EXCAVATION IS BEYOND THE AREA OF GENERAL CONSTRUCTION WORK, FINAL SURFACE AND ADJACENT DISTURBED AREAS SHALL BE RESTORED TO MATCH THE ORIGINAL CONDITION BY SODDING, SEEDING, ASPHALT PAVING, CONCRETE, ETC., AS REQUIRED. WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THESE SPECIFICATIONS.
- L. WHEN THE EXCAVATION IS ON PUBLIC PROPERTY, RESTORATION OF SURFACE CONDITIONS SHALL MEET THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- M. WHEN SERVICES ARE TO BE RUN SIDE-BY-SIDE, A COMMON TRENCH MAY BE USED PROVIDING THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION BETWEEN THE VARIOUS SERVICES ARE MAINTAINED AND PROVIDING THE METHODS OF BEDDING AND BACKFILL MEET THE APPROVAL OF THE ENGINEER. CONTRACTORS INVOLVED SHALL MAKE THEIR OWN AGREEMENT AS TO THE SHARING OF THE COST OF THE COMMON TRENCHING AND BACKFILL WORK

# 1.13 TEMPORARY HEAT

A. THE CONTRACTOR SHALL COOPERATE WITH THE GENERAL CONTRACTOR TO PROVIDE TEMPORARY HEAT AS SOON AS POSSIBLE FOR USE DURING CONSTRUCTION IF TEMPORARY HEAT IS REQUIRED. AIR HANDLING EQUIPMENT SHALL NOT BE OPERATED AT ANY TIME WITHOUT FILTERS IN PLACE AND ALL EQUIPMENT SHALL BE PROTECTED FROM DAMAGE. OPERATING THE EQUIPMENT FOR TEMPORARY HEAT SHALL NOT START THE WARRANTY PERIOD OF THE EQUIPMENT USED.

# 1.14 DEMOLITION AND NEW WORK

- A. THE CONTRACTOR SHALL DO ALL DEMOLITION, ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED TO MAINTAIN THE OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS AND TO INTEGRATE THE NEW SYSTEMS IN THE RENOVATED BUILDING AS REQUIRED. THE CONTRACTOR SHALL INCLUDE ALL WORK WHICH MAY BE REQUIRED TO ALTERATIONS AND DEMOLITION WORK. THIS SHALL INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF WIRE AND CONDUIT, OUTLET BOXES, JUNCTION BOXES, ETC. EXISTING SYSTEMS AND NEW SYSTEMS SHALL BE COMPLETELY INTEGRATED AS INTENDED AND AS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.
- B. THE CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF PROPERLY ALL EXISTING MATERIAL AND EQUIPMENT WHICH NO LONGER SERVES A PURPOSE IN ALTERED AREAS. THE CONTRACTOR SHALL REMOVE CONNECTIONS TO EQUIPMENT BACK TO PANEL OR JUNCTION BOX. MAINTIAN CIRCUIT CONNECTIVITY. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN SERVICES TO ALL EXISTING AREAS REQUIRING SUCH SERVICES. THE CONTRACTOR SHALL REROUTE AS REQUIRED SUCH SERVICES WHERE ARE DISRUPTED DUE TO ARCHITECTURAL CHANGES IN THE EXISTING STRUCTURE. ANY EQUIPMENT WHICH IS DESIGNATED TO BE REUSED AND WHICH IS DAMAGED IN THE PROCESS SHALL BE REPLACED BY THE CONTRACTOR WITH NEW EQUIPMENT OF LIKE KIND AT NO COST TO THE OWNER.

# 1.15 INTERRUPTION OF SERVICES

A. THE CONTRACTOR SHALL SCHEDULE ANY SERVICE INTERRUPTIONS TO THE EXISTING BUILDING WITH THE OWNER'S REPRESENTATIVE. SUCH INTERRUPTIONS SHALL BE PLANNED SO AS TO BE AT TIMES TO CAUSE THE LEAST INCONVENIENCE AND INTERRUPTION TO THE FACILITY'S SCHEDULE.

# 1.16 EXISTING CONDITIONS

ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS FOR THIS PROJECT HAVE BEEN DETERMINED FROM AVAILABLE DRAWINGS AND FIELD INVESTIGATIONS. CONTRACTORS MAKING PROPOSALS FOR THIS WORK SHALL INVESTIGATE ALL EXISTING CONDITIONS AND BASE THEIR PROPOSALS ON THEIR OBSERVATIONS TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS IN ACCORDANCE WITH THE INTENT OF THE DRAWING AND SPECIFICATIONS FOR THIS PROJECT AND ALL APPLICABLE GOVERNING CODES, RULES, REGULATIONS AND ORDINANCES. FAILURE TO DETERMINE EXISTING CONDITIONS WHICH CAUSE ADDITIONAL WORK WILL NOT CONSTITUTE GROUNDS FOR ADDITIONAL COMPENSATION.

## PART 2 - ELECTRICAL

- 2.1 GENERAL REQUIREMENTS
- A. SEE PART 1 FOR GENERAL REQUIREMENTS.

### 2.2 IDENTIFICATION OF SWITCHES AND APPARATUS

A. ALL CABINETS, SAFETY SWITCHES, AND OTHER APPARATUS USED FOR OPERATION AND CONTROL OF CIRCUITS, APPLIANCES, AND EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED PLASTIC PLATES EITHER BLACK WITH WHITE LETTERS OR WHITE WITH BLACK LETTERS.

#### 2.3 GROUNDING

A. ALL CONDUCTORS, MOTOR FRAMES, RACEWAYS, CABINETS, ETC., THAT REQUIRE GROUNDING SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, THOSE OF THE SERVING UTILITY AND LOCAL AUTHORITIES HAVING JURISDICTION.

#### 2.4 SAFETY SWITCHES

- A. SAFETY SWITCHES, AS MANUFACTURED BY GENERAL ELECTRIC, CROUSE-HINDS, CUTLER-HAMMER, SQUARE D, SIEMENS, OR APPROVED EQUAL, SHALL BE FURNISHED AND INSTALLED (WHERE NOT FURNISHED BY OTHERS) WHEREVER SHOWN ON THE DRAWINGS SPECIFIED, OR REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- B. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, UNDERWRITERS' LABORATORIES SHORT CIRCUIT LABELED FOR AT LEAST 100,000 AMPERES WITH CLASS R REJECTION FUSEHOLDERS SO AS TO COMPLY WITH NEC 100-9. SWITCHES INSIDE OF BUILDING SHALL BE FURNISHED IN NEMA 1 GENERAL PURPOSE ENCLOSURES. SWITCHES OUTSIDE OF BUILDING SHALL BE FURNISHED IN NEMA 3R ENCLOSURES UNLESS OTHERWISE SPECIFIED.
- C. EACH MOTOR SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

#### 2.5 FUSES

A. THIS CONTRACTOR SHALL FURNISH AND INSTALL CARTRIDGE AND PLUG TYPE FUSES AS MANUFACTURED BY THE BUSSMAN MANUFACTURING COMPANY, GOULD/SHAWMUT, CEFCO, OR APPROVED EQUAL, IN ALL FUSIBLE EQUIPMENT. TIME-DELAY TRIONIC OR FUSETRON FUSES, UL CLASS RK5, SHALL BE INSTALLED ON ALL MOTOR CIRCUITS. NON TIME-DELAY AMP-TRAP (A2K OR A6K) OR BUSSMAN LIMITRON (KTN OR KTS), UL CLASS RK1 SHALL BE INSTALLED ON CIRCUITS FEEDING PANELBOARDS. ALL OTHER CIRCUITS SHALL BE PROTECTED BY FAULT-TRAP, UL CLASS RK5, FUSES OR APPROVED EQUAL. CLASS K FUSES ARE NOT ACCEPTABLE.

#### 2.6 CONDUI

- A. ALL ELECTRICAL WIRING, INCLUDING LOW VOLTAGE WIRING, SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH NOMINAL SIZE SHALL BE USED BELOW GRADE; NO LESS THAN 1/2 INCH NOMINAL SIZE SHALL BE USED ABOVE GRADE.
- B. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 EPC-40-PVC. ALL CONDUITS SHALL BE INSTALLED WITH MINIMUM 24 INCH COVER.
- C. CONDUIT INSTALLED IN CONCRETE SLABS OR ABOVE GROUND SHALL BE GALVANIZED RIGID STEEL OR EPC-40-PVC.
- D. WHEN PVC CONDUITS PENETRATE CONCRETE FLOOR CONSTRUCTION, CONTRACTOR SHALL USE RIGID STEEL OR IMC ELBOWS AND EXTENSION. PVC CONDUIT/FITTINGS SHALL NOT BE PERMITTED TO BE EXPOSED ABOVE THE FLOOR.
- E. THINWALL TUBING SHALL BE E.M.T.
- F. ALL FITTINGS SHALL BE OF THE COMPRESSION TYPE AND WATERTIGHT FOR UNDERGROUND AND IN SLAB LOCATIONS. COMPRESSION OR SCREWED FITTINGS FOR INDOOR.
- G. CONDUIT FOR INTERIOR WIRING, IN GENERAL, SHALL BE THINWALL TUBING UNLESS OTHERWISE NOTED.
- H. RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FITTING TO FITTING. A RUN OF CONDUIT BETWEEN OUTLETS OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUTLET OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW. THE SYSTEM SHALL BE COMPLETE WITH OUTLETS, DISTRIBUTION BOXES, ETC., SMOOTH INSIDE AND MECHANICALLY SECURE IN PLACE. APPROVED STRAPS, HANGERS, OR SUPPORTS SHALL BE USED TO SECURE CONDUITS IN PLACE. CONDUITS SHALL, IN GENERAL, BE SUPPORTED AT INTERVALS NOT EXCEEDING 10'-0" AND WITHIN 3'-0" OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING.
- I. CONDUITS SHALL BE PROTECTED DURING CONSTRUCTION; PLUG AND KEEP CLEAN AND DRY. CONDUIT ENDS SHALL BE BUTTED IN CENTERS OF COUPLINGS. NO CRACKS OR FLATTENED SECTIONS WILL BE PERMITTED AT BENDS OR ELSEWHERE. ALL ENDS OF CONDUIT SHALL BE REAMED TO REMOVE ROUGH EDGES. RUNNING THREADS WILL NOT BE PERMITTED.
- J. CONDUITS SHALL BE CONCEALED WITHIN THE WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE BUILDING LINES.

# 2.7 WIRE AND CABLE

- A. WIRE AND CABLE SHALL BE COPPER.
- B. ALL CONDUCTORS SHALL BE COPPER.
- C. NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID WITH TYPE THHN INSULATION AND NO. 8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED WITH TYPE THHN INSULATION EXCEPT THAT CONDUCTORS WITHIN 3 INCHES OF LIGHT FIXTURE BALLASTS SHALL HAVE RHH, THHN, OR EQUAL INSULATION RATED FOR 90 DEGREES C. APPLICATION.

# 2.8 LOCATIONS OF OUTLETS AND EQUIPMENT

- A. ELECTRICAL OUTLETS AND EQUIPMENT ARE SO LOCATED ON THE DRAWINGS TO SHOW INTENT OF DESIGN. MINOR VARIATIONS IN THESE LOCATIONS MAY BE MADE BY THIS CONTRACTOR TO COMPLY WITH STRUCTURAL AND OTHER REQUIREMENTS AS DETERMINED IN THE COURSE OF CONSTRUCTION. IT SHALL BE THE DUTY OF THIS CONTRACTOR TO TAKE HIS OWN MEASUREMENTS AND BE RESPONSIBLE FOR SAME. THIS CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DRAWINGS AND THOSE DRAWINGS USED BY OTHER CONTRACTORS IN ORDER TO DETERMINE EXACT LOCATIONS FOR ELECTRICAL OUTLETS AND EQUIPMENT. DO NOT SCALE DRAWINGS FOR OUTLET LOCATIONS.
- B. EQUIPMENT MOUNTING HEIGHTS:
- 1. INTERIOR RECEPTACLES:
- (A) FLOOR TO BOTTOM: 16".2. EXTERIOR RECEPTACLES:
- (A) FLOOR TO CENTERLINE: 24".
- TELEPHONE OUTLETS:
   (A) FLOOR TO BOTTOM: 16".
- 4. SWITCHES:
- (A) FLOOR TO TOP: 48".
- 5. RECEPTACLES ABOVE COUNTERS: CENTERLINE 10-INCHES ABOVE COUNTER AND HORIZONTAL.

# 2.9 WALL PLATES

SURFACES.

A. GROUPS OF SWITCHES, OUTLETS OR SWITCH AND OUTLET COMBINATIONS SHALL BE MOUNTED UNDER ONE GANG-PLATE.

B. WALL PLATES SHALL FIT AND COVER PROPERLY THE DEVICE AND WALL OPENING, NO OPEN

C. WALL PLATES SHALL BE SET VERTICAL AND SHALL FINISH FLUSH WITH ALL SURROUNDING

- OR UNFINISHED SURFACES SHALL SHOW AFTER INSTALLATION OF THE WALL PLATES.
- D. WALL PLATES FOR ALL DEVICES AND TELEPHONE OUTLETS SHALL MATCH THE EXISTING DEVICES.

#### 2.10 WIRING DEVICES

- A. SINGLE-POLE WALL TUMBLER SWITCHES FOR GENERAL USE SHALL BE SPECIFICATION GRADE HUBBELL NO. 1121, OR APPROVED EQUAL, MECHANICALLY SILENT TYPE WITH PLASTIC HANDLES, RATED 20 AMPERES AC, 120/277 VOLTS. GENERAL USE SWITCHES INDICATED ON PLANS AS DOUBLE POLE, 3-WAY, 4-WAY OR LOCK TYPE WITH KEY GUIDE SHALL BE THE SAME SERIES AS THE SINGLE-POLE SWITCHES. DEVICE COLOR SHALL MATCH EXISTING
- 3. CONVENIENCE OUTLETS IN FINISHED SPACES SHALL BE SPECIFICATION GRADE HUBBELL NO. 5362, OR APPROVED EQUAL, DUPLEX GROUNDING TYPE RECEPTACLES RATED 20 AMPERES AC, 120 VOLT. DEVICE COLOR SHALL MATCH EXISTING.
- C. RECEPTACLES DESIGNATED WITH GROUND FAULT PROTECTION SHALL BE HUBBELL NO. GF-5362, OR APPROVED EQUAL, 120 VOLT, 20 AMP GROUND FAULT INTERRUPTER TYPE. DEVICE COLOR SHALL MATCH EXISTING.

#### 2.11 TELEPHONE

- A. FURNISH AND INSTALL TELEPHONE OUTLETS AS NOTED ON THE DRAWINGS WITH 3/4 INCH CONDUIT TO ABOVE LAY-IN CEILINGS WITH END BUSHINGS.
- B. PROVIDE PULL WIRES IN ALL TELEPHONE CONDUITS.
- C. FURNISH AND INSTALL COVER PLATES SUITABLE FOR USE WITH THE EQUIPMENT TO BE CONNECTED.

#### 2.12 LIGHTING FIXTURES

- A. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND HEREIN DESCRIBED. MATERIAL, EQUIPMENT, OR SERVICES NECESSARY TO COMPLETE THE INSTALLATION OF THESE FIXTURES, BUT NOT SPECIFICALLY MENTIONED, SHALL BE FURNISHED AS THOUGH SPECIFIED. ALL FIXTURES AND LAMPS SHALL BE PROPERLY CLEANED AND ADJUSTED AFTER INSTALLATION.
- B. ALL ADJUSTABLE LIGHTING FIXTURES SHALL BE CAREFULLY POSITIONED BY THIS CONTRACTOR IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVE.
- C. LAMPS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SYLVANIA OR PHILLIPS.
- D. BALLASTS SHALL BE AS NOTED IN FIXTURE SCHEDULE. BALLASTS IN FIXTURES DESIGNATED FOR EMERGENCY LIGHTING MUST BE COMPATIBLE WITH THE EMERGENCY UNIT USED WITH MINIMUM LEAKAGE.
- E. THIS CONTRACTOR SHALL FURNISH AND INSTALL FIXTURES HEREIN SPECIFIED OR AS SHOWN ON THE DRAWINGS.
- F. LIGHT FIXTURES SHALL BE SUPPORTED FROM ROOF STRUCTURE PER UBC 47-18.
- G. GENERAL CONTRACTOR SHALL PROVIDE ALL FIRE-RATED ENCLOSURES FOR LIGHT FIXTURES INSTALLED IN FIRE-RATED CEILINGS.

#### 2.13 IDENTIFICATION OF EQUIPMENT

- A. ALL SERVICE ENTRANCE EQUIPMENT, DISCONNECT SWITCHES, PANELBOARDS, RELAYS, MOTOR STARTERS, CONTACTORS, TELEPHONE TERMINAL CABINETS, TV EQUIPMENT AND RISER JUNCTION BOXES, AND OTHER ELECTRICAL EQUIPMENT UNDER THIS CONTRACT, SHALL BE PROVIDED WITH PROPER IDENTIFICATION. IDENTIFICATION SHALL BE BY THE USE OF ENGRAVED COLOR CODED PLASTIC NAMEPLATES WITH WHITE LETTERING SCREWED TO THE COVER OF THE EQUIPMENT. USE OF EMBOSSED PLASTIC "TAPE" LABELS AS PREPARED BY "TYPEWRITER" TYPE EQUIPMENT SHALL NOT BE USED. COLOR CODING SHALL BE AS FOLLOWS:
- 1. EQUIPMENT CONNECTED TO A NORMAL POWER SOURCE SHALL BE BLACK WITH WHITE LETTERS.

#### 2.14 FIRE ALARM SYSTEM

- A. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, WIRE, CONDUIT AND ENGINEERING SERVICES NECESSARY TO INSURE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM AS DESCRIBED HEREIN AND AS SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIAL AND EQUIPMENT COMPATIBLE TO THE SYSTEM SUPPLIED. ANY EQUIPMENT NOT SPECIFICALLY MENTIONED IN THIS SPECIFICATION OR NOT SHOWN ON THE DRAWINGS BUT REQUIRED FOR THE PROPER OPERATION OF THE FIRE ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED.
- B. ALL EQUIPMENT AND COMPLETED INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA, LOCAL CODES, THESE SPECIFICATIONS AND AUTHORITIES HAVING JURISDICTION WITH THE STRICTER REQUIREMENTS GOVERNING IN CASE OF POSSIBLE VARIANCES. ALL COMPONENTS OF THE SYSTEM SHALL BE STANDARD OF THE MANUFACTURER, LISTED BY UNDERWRITERS' LABORATORIES, INC. AND BEAR THEIR MARK
- C. THE FIRE ALARM EQUIPMENT SHALL BE THAT OF THE GE-EST COMPANY OR COMPARABLE SYSTEMS BY PYROTRONICS, NOTIFIER OR SIMPLEX. THE ALARM CONTRACTOR SHALL PROVIDE, AT THE REQUEST OF THE OWNER, MEANS BY WHICH THE SYSTEM CAN BE SERVICED, MAINTAINED AND MONITORED BY COMPETENT QUALIFIED INDIVIDUALS.
- D. THE SYSTEM SHALL BE ADDRESSABLE, ELECTRICALLY SUPERVISED AND UTILIZE 2-WIRE, CLASS B CIRCUITS FOR ALL ALARM INITIATION ZONES AND SIGNAL CIRCUITS. THE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FIRE ALARM CONTROL PANEL, MANUAL AND AUTOMATIC ALARM INITIATING DEVICES AND AUDIBLE/VISUAL ALARM INDICATING DEVICES. THE SYSTEM SHALL HAVE THE CAPABILITY OF BEING MONITORED VIA AN
- E. ACTUATION OF ANY MANUAL OR AUTOMATIC INITIATING DEVICE SHALL CAUSE THE
- FOLLOWING:

OUTSIDE PHONE LINE PROVIDED BY THE OWNER.

ALL AUDIBLE INDICATING DEVICES TO SOUND.
 VISUAL INDICATING DEVICES TO FLASH.

FROM THE CONTROL PANEL.

- 3. SHUTDOWN ALL AIR HANDLING UNITS.

  F. FIRE ALARM AUDIBLE/VISUAL UNITS SHALL BE GE-EST AND G1R SERIES FLUSH-MOUNTED COMBINATION HORN AND FLASHING LIGHT. HORN SHALL BE RED VIBRATING TYPE OPERATING AT 24VDC. THE FLASHING LIGHT SHALL BE XENON STROBE AND OPERATE AT GREATER THAN 1000 CANDLEPOWER. THE UNIT SHALL FLASH AT APPROXIMATELY TWO FLASHES PER SECOND. A FLASH RATE OF GREATER THAN TWO FLASHES PER SECOND IS NOT ACCEPTABLE. BOTH THE HORN AND STROBE SHALL OPERATE ON 24VDC SUPPLIED
- G. POWER LIMITED CIRCUIT CABLES SHALL BE UL LISTED AND AS MANUFACTURED BY GE., WEST PENN OR BELDON. CONDUCTORS SHALL BE SOLID GAUGES #18 (FOR PULL STATIONS AND SMOKE DETECTOR) AND #16 FOR HORNS, LIGHTS AND DOOR HOLDERS). CABLES SHALL BE TWISTED PAIRS TO REDUCE SUSCEPTIBILITY TO TRANSIENT NOISE. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.

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project title

RED DEVELOPMENT SUMMIT FAIR 10 G NW Blue Pkwy

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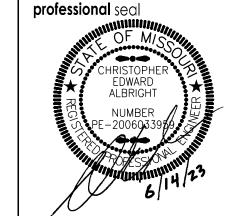
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drawing issuance

Description

drawing revisions



DATE SIGNED: 06/14/2023

drawing title

MECHANICAL AND ELECTRICAL -

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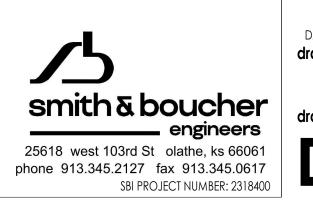
25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617

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**project** title

**project** number

drawing issuance Permit Set **drawing** revisions

professional seal

DATE SIGNED: 06-14-23 drawing title **HVAC PLAN - DEMOLITION** 

- 1. EXISTING HVAC SYSTEM TO REMAIN INTACT AND BE REUSED. CLEAN AND WIPE DOWN ALL DIFFUSERS AND GRILLES.
- 2. PROVIDE NEBB OR AABC CERTIFIED TAB OF THE DIFFUSERS AND GRILLES. TEST EXISTING ROOFTOP UNIT FOR FULL AIRFLOW (RTU-1 AT 4000CFM SUPPLY AND 900CFM OUTSIDE AIR, RTU-2 AT 3405CFM SUPPLY AND 900CFM OF OUTSIDE AIR).

PLAN NOTES:

1 ADJUST LOCATION OF EXISTING SUPPLY DIFFUSER TO ACCOMMODATE NEW CEILING AND LIGHTING.

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SUMMIT FAIR 910 G NW Blue Pkw Lee's Summit, MO 64

**project** title

RED DEVELOPME

**project** number

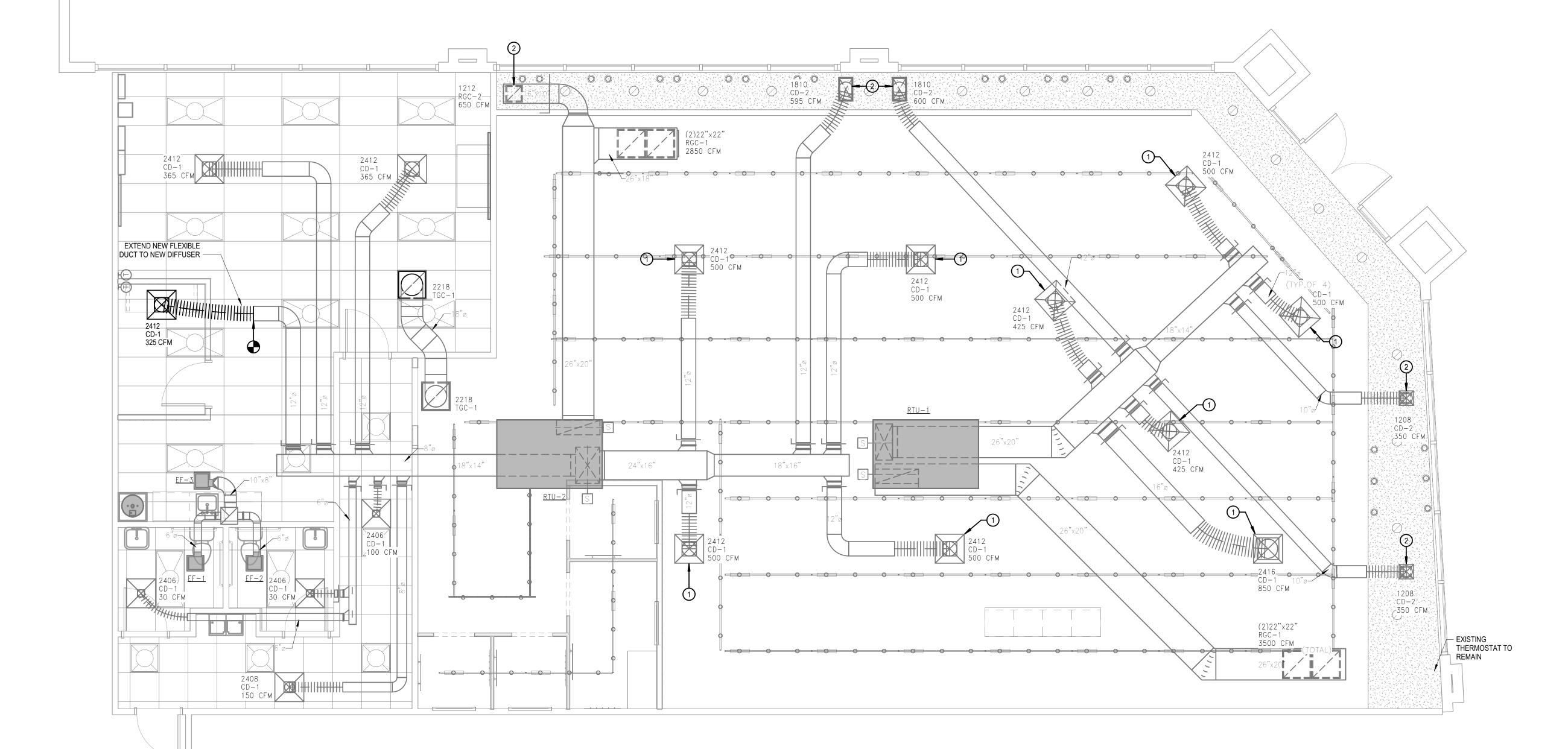
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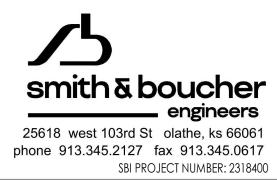
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2 TEMPORARILY REMOVE EXISTING DIFFUSERS AND REINSTALL TO ACCOMMODATE SOFFIT WORK.



HVAC PLAN - NEW WORK

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



DATE SIGNED: 06-14-23 drawing title

**HVAC PLAN - NEW WORK drawing** number

1) DISCONNECT AND REMOVE EXISTING BACKFLOW PREVENTER AND COLD WATER LINE. ADJUST AS REQUIRED FOR NEW WORK.

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drawing issuance

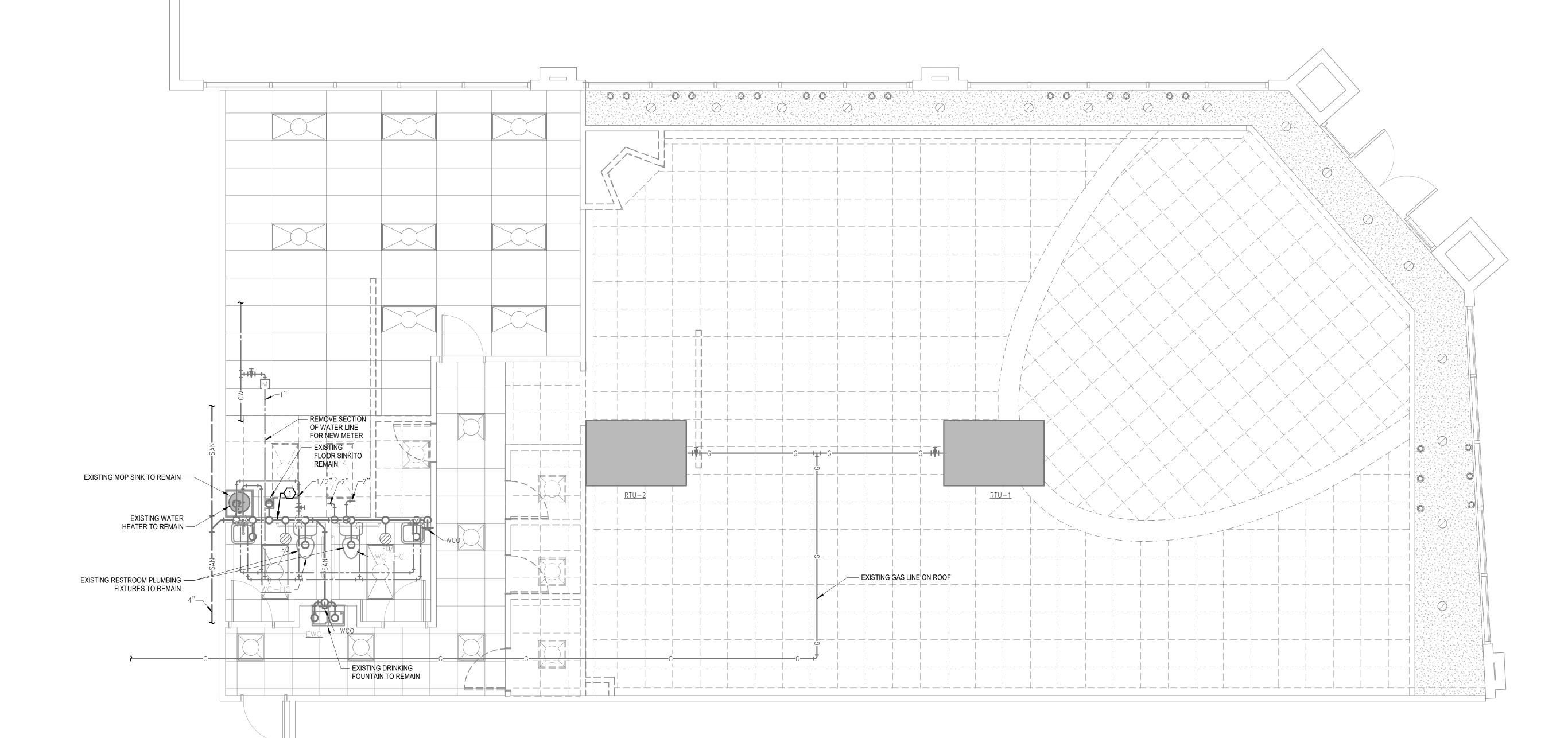
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DATE SIGNED: 06-14-23 PLUMBING PLAN - DEMOLITION

smith & boucher engineers

phone 913.345.2127 fax 913.345.0617 SBI PROJECT NUMBER: 2318400

PLUMBING PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



1. THE EXISTING FIRE SPRINKLER SYSTEM IS TO REMAIN AND BE REUSED. ADJUST OR MODIFY ANY HEAD LOCATIONS AS A RESULT OF NEW CONSTRUCTION (WALLS, LIGHTING, ETC.).

## PLUMBING PLAN NOTES:

- ONNECT 1/2" COLD WATER, 1/2" HOT WATER, 2" SANITARY AND 1-1/2" VENT TO NEW BREAKROOM SINK. MODIFY SANITARY AND VENT PIPING IN CHASE TO CONNECT TO EXISTING PIPING IN THE WALL.
- 2 PROVIDE AND INSTALL NEW TENANT WATER SUB-METER AND ISOLATION VALVE. METER TO BE A NEPTUNE T-10 (OR

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**project** number

**drawing** issuance

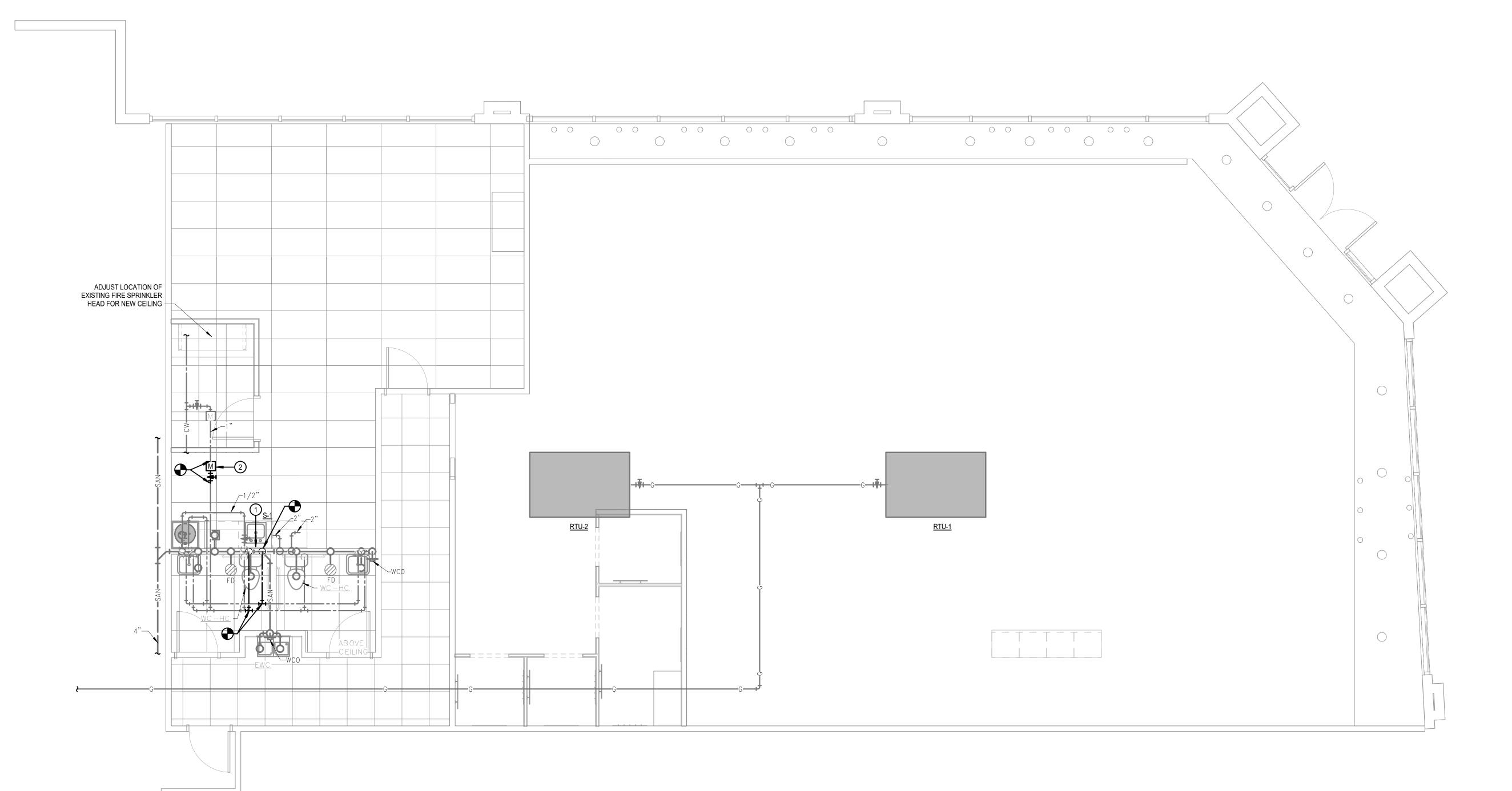
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PLUMBING PLAN - NEW WORK **drawing** number

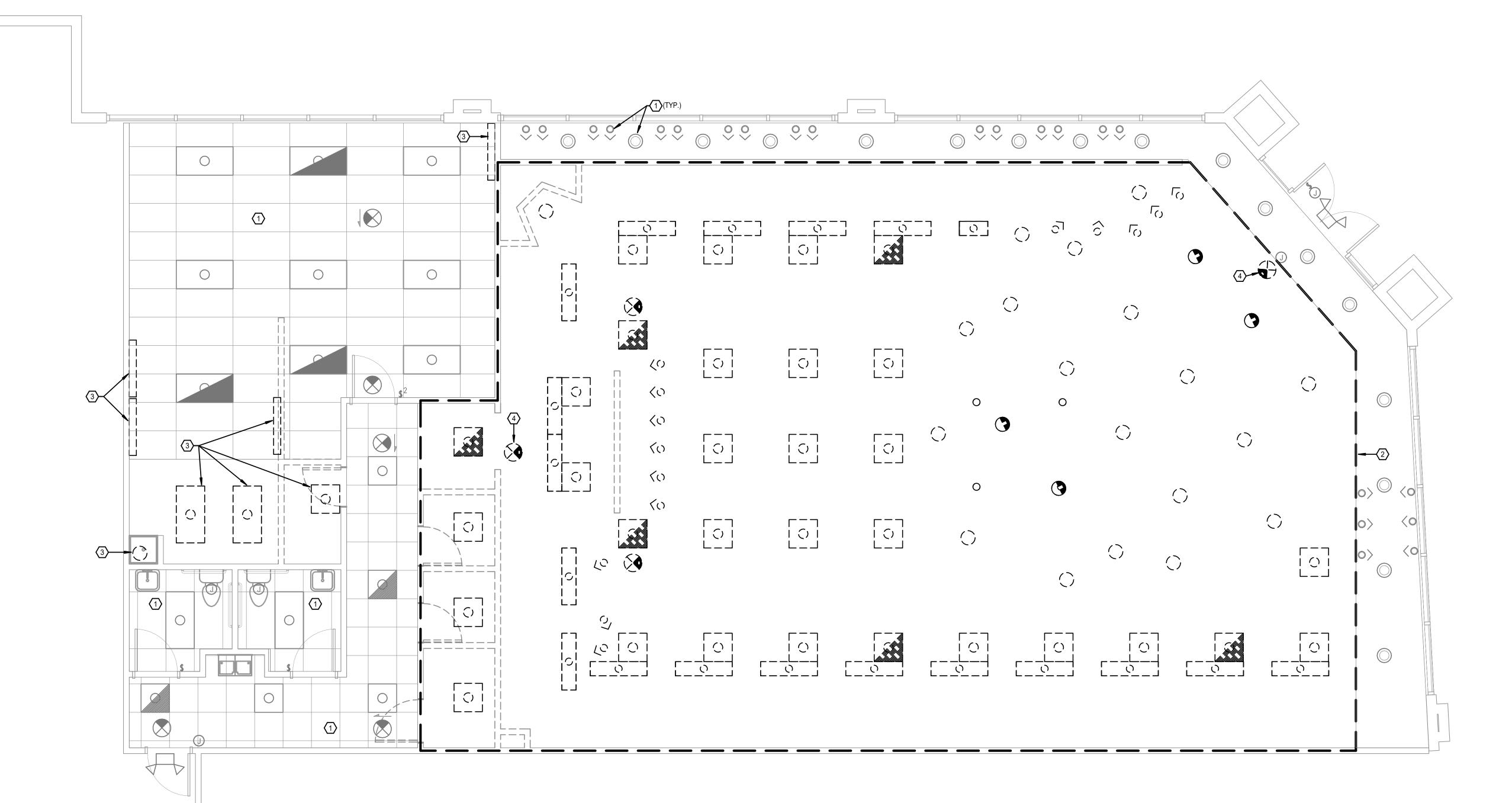
smith & boucher engineers 25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617 SBI PROJECT NUMBER: 2318400



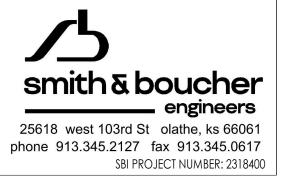
- 1. UNLESS NOTED OTHERWISE, SERVICES AND EQUIPMENT SHOWN FULL TONE ARE NEW WORK, HALF TONE ARE EXISTING TO REMAIN, AND FULL TONE AND DASHED ARE EXISTING TO BE DEMOLISHED.
- 2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
- 3. DISCONNECT AND REMOVE ALL CIRCUITRY, DISCONNECTS, CONTROLLERS AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF FIXTURES, DEVICES OR EQUIPMENT INDICATED TO BE REMOVED. LABEL ALL CIRCUIT BREAKERS IN EXISTING PANELBOARDS NO LONGER IN USE AS SPARE. CAP ALL UNUSED CONDUIT AND WIRING BEYOND THE FLOOR LINE OR WALL LINE TO FACILITATE RESTORATION OF FINISH.
- 4. VERIFY AND RESTORE CONTINUITY OF ALL EXISTING CIRCUITRY INDICATED TO REMAIN IN USE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN, FURNISH AND INSTALL ALL REQUIRED CIRCUITRY, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
- 5. RELOCATE AND RECONNECT ANY MECHANICAL EQUIPMENT AND ANY ELECTRIC FIXTURES, DEVICES OR EQUIPMENT THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REVISIONS INDICATED ON THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS OR TO MEET NEC CODE REQUIRED CLEARANCES.
- 6. ELECTRIC CONTRACTOR TO FURNISH AND INSTALL BLANK JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES WITHIN THE CONSTRUCTION AREA THAT ARE NOT BEING DEMOLISHED.

## **DEMOLITION PLAN NOTES:**

- (1) EXISTING FIXTURE TO REMAIN. UNLESS NOTED OTHERWISE.
- $\langle 2 \rangle$  ALL FIXTURES TO BE DEMOLISHED. MAINTAIN CIRCUIT CONTINUITY OF ANY DOWNSTREAM DEVICE.
- (3) FIXTURE TO BE DEMOLISHED.
- TEMPORARILY REMOVE EXIT SIGNS AND REINSTALL DURING NEW WORK. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.



LIGHTING PLAN - DEMOLITION 1



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**project** title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

**project** number

Project Numb

Permit Set

drawing revisions

professional seal

OF M/S

CHRISTOPHER

EDWARD

ALBRIGHT

NUMBER

PE-2006033959

DATE SIGNED: 06-14-23

drawing title

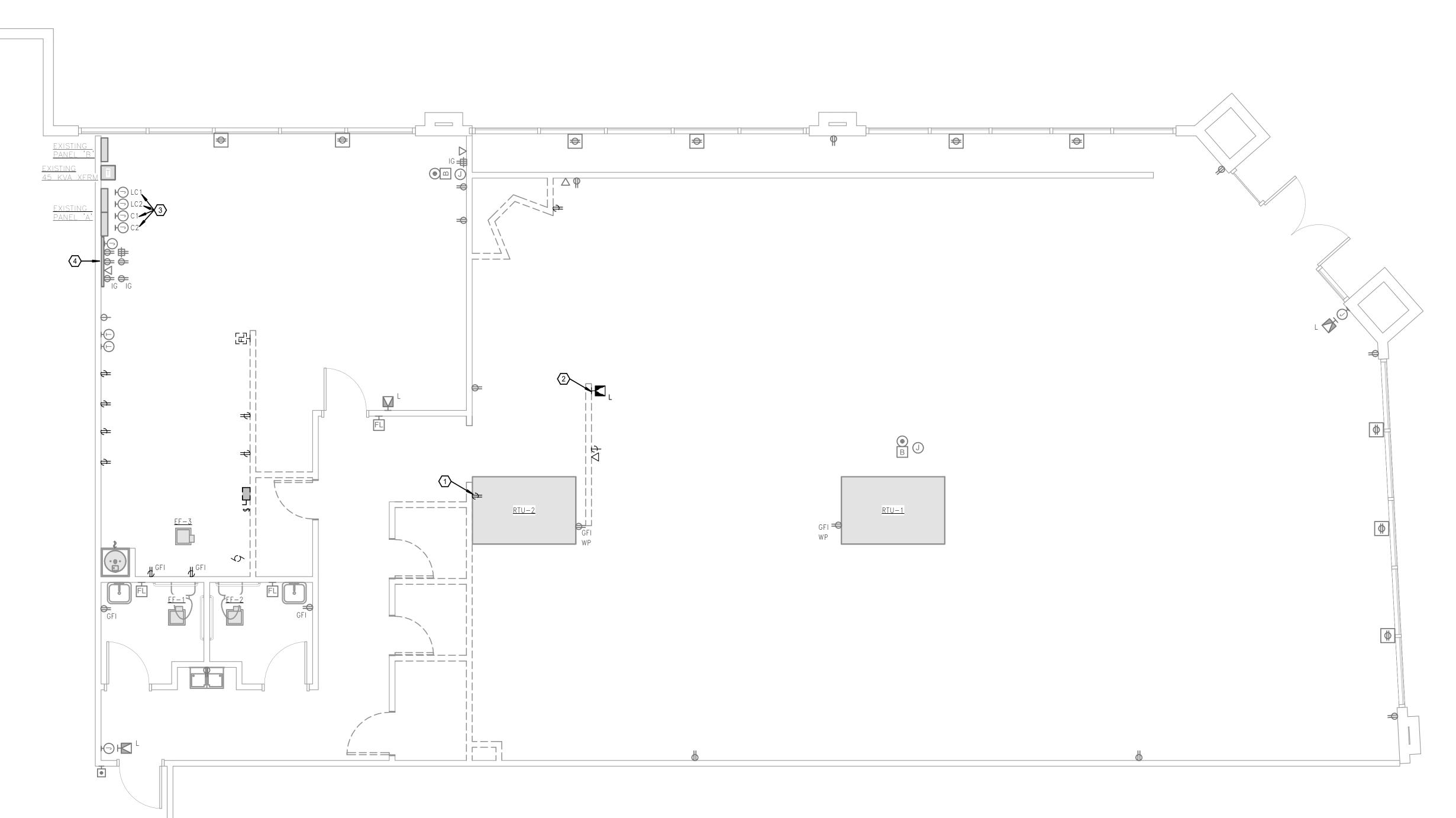
LIGHTING PLAN - DEMOLITION

drawing number
DE101

- 1. UNLESS NOTED OTHERWISE, SERVICES AND EQUIPMENT SHOWN FULL TONE ARE NEW WORK, HALF TONE ARE EXISTING TO REMAIN, AND FULL TONE AND DASHED ARE EXISTING TO BE DEMOLISHED.
- 2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
- 3. DISCONNECT AND REMOVE ALL CIRCUITRY, DISCONNECTS, CONTROLLERS AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF FIXTURES, DEVICES OR EQUIPMENT INDICATED TO BE REMOVED. LABEL ALL CIRCUIT BREAKERS IN EXISTING PANELBOARDS NO LONGER IN USE AS SPARE. CAP ALL UNUSED CONDUIT AND WIRING BEYOND THE FLOOR LINE OR WALL LINE TO FACILITATE RESTORATION OF FINISH.
- 4. VERIFY AND RESTORE CONTINUITY OF ALL EXISTING CIRCUITRY INDICATED TO REMAIN IN USE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN, FURNISH AND INSTALL ALL REQUIRED CIRCUITRY, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
- 5. RELOCATE AND RECONNECT ANY MECHANICAL EQUIPMENT AND ANY ELECTRIC FIXTURES, DEVICES OR EQUIPMENT THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REVISIONS INDICATED ON THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS OR TO MEET NEC CODE REQUIRED CLEARANCES.
- 6. ELECTRIC CONTRACTOR TO FURNISH AND INSTALL BLANK JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES WITHIN THE CONSTRUCTION AREA THAT ARE NOT BEING DEMOLISHED.

### **DEMOLITION PLAN NOTES:**

- (1) RECEPTACLE TO BE DEMOLISHED. MAINTAIN CONTINUITY FOR ANY DOWNSTREAM CIRCUITS.
- 2 EXISTING FIRE ALARM DEVICE TO BE TEMPORARY REMOVED AND RELOCATED DURING NEW WORK.
- (3) EXISTING LIGHTING CONTACTORS AND TIMER CONTROLS.
- 4 EXISTING LOW-VOLTAGE EQUIPMENT FOR SECURITY/TELECOM AND OTHERS. REMOVE ALL UN-USED OLD EQUIPMENT AFTER VERIFYING WITH OWNER TO MAKE ROOM FOR LULULEMONS EQUIPMENT. MAINTAIN ALL OUTLETS FOR RE-USE DURING NEW WORK.



POWER PLAN - DEMOLITION



25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617 SBI PROJECT NUMBER: 2318400

<p

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**project** title

910 G NW Blue Pkv Lee's Summit, MO 64 RED DEVELOPME

project number

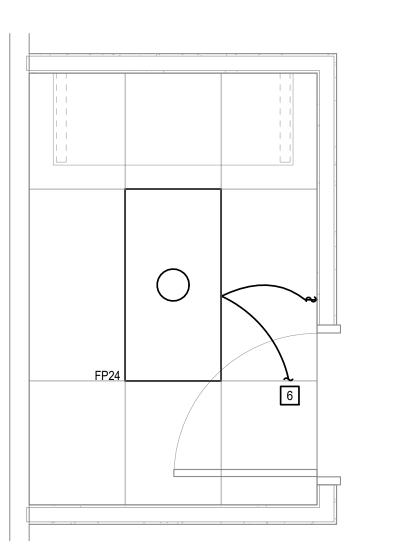
**drawing** issuance

**drawing** revisions

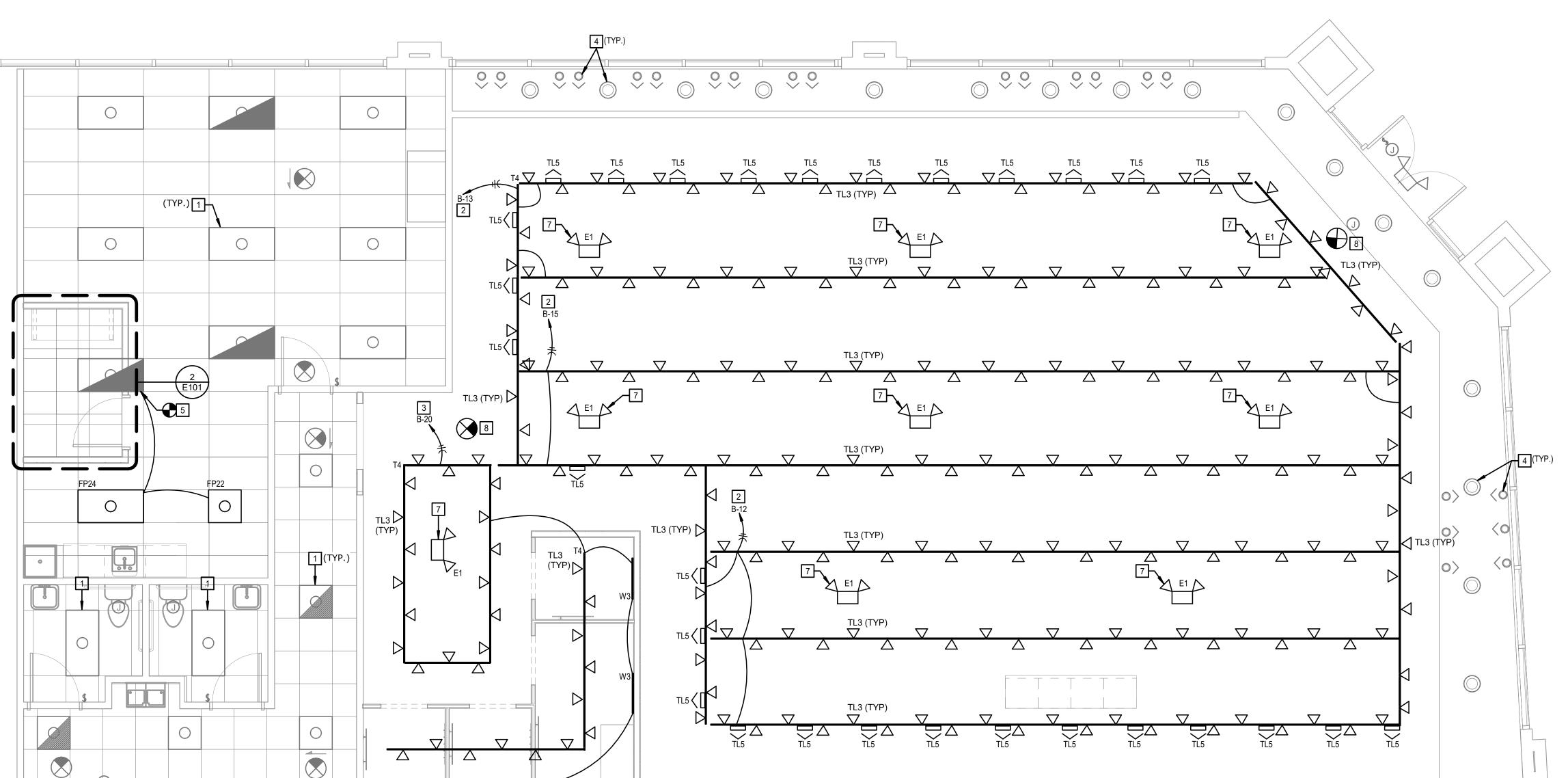
professional seal

DATE SIGNED: 06-14-23 **drawing** title

POWER PLAN - DEMOLITION



ENLARGED LIGHTING PLAN - MANAGER'S OFFICE



# **GENERAL NOTES:**

- 1. CIRCUIT ALL EMERGENCY DRIVERS AND EXIT SIGNS WITH AN
- 4. REFER TO ARCHITECTURAL FLOORING PLANS AND REFLECTED CEILING PLANS OF EXACT MOUNTING LOCATIONS OF ALL
- 5. PATCH AND REPAIR ALL OPENINGS CREATED THAT PENETRATE FIRE RATED WALLS, FLOORS AND CEILING USING UL APPROVED METHODS AND MATERIALS CONSISTENT WITH THE RATING OF THE SURFACE PENETRATED.
- 6. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

0-100' = #12 AWG 101'-150' = #10 AWG

GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.

### **PLAN NOTES:**

- 1 REPLACE ALL EXISTING 2X4 & 2X2 BULBS WITH LED TYPES PRIOR TO INSTALL.
- 2 VERIFY IN FIELD EXISTING LIGHTING CONTACTOR CIRCUITS AND RE-USE EXISTING SALES FLOOR LIGHTING CIRCUITS ON CONTACTOR IF DIFFERENT FROM WHAT'S CALLED OUT ON PLAN. INTENT IS TO RE-USE EXISTING LIGHTING CONTACTOR
- 3 CONNECT CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR NEXT TO PANEL. VERIFY IN FIELD EXISTING SPARE AND CONTROL THROUGH EXISTING TIMER.
- 4 REPLACE ALL BULBS WITH LED EQUIVALENT. EXISTING CONDITIONS SHOW THEY USE A GX24 BASE FOR THE DOWNLIGHTS AND GX5.3 FOR THE ADJUSTABLE DOWNLIGHTS. VERIFY IN FIELD EXACT BULB TYPES PRIOR TO INSTALL.
- 5 CONNECT LIGHTING TO EXISTING CIRCUIT.
- 6 CONNECT TO EXISTING CIRCUIT BACK OF HOUSE LIGHTING CIRCUIT A-7.
- [7] EMERGENCY FIXTURES TO BE PENDANT MOUNTED FROM CEILING AT SAME HEIGHT AS TRACK FIXTURES. COORDINATE HEIGHTS IN FIELD. CONNECT LIGHTING CIRCUIT FROM PANEL A: 277V PANEL. THIS MAY BE CONNECTED TO CIRCUIT A-5 AS IT RELATES TO OTHER EMERGENCY FIXTURES. VERIFY IF CIRCUIT IS LOADED; PUT ON NEW 20A-1P SPARE FROM PANEL A, IF SO.
- TEMPORARY REMOVAL. EXIT SIGNS TO BE PENDANT MOUNT EXIT SIGNS AS REQUIRED TO BE INSTALLED DURING NEW CEILING WORK.

UNSWITCHED HOT CONDUCTOR FROM LOCAL ROOM CIRCUIT.

2. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXACT MOUNTING HEIGHTS/LOCATIONS FOR EXTERIOR BUILDING

3. PROVIDE LOW VOLTAGE WIRING BETWEEN OCCUPANCY SENSOR AND TO CORRESPONDING POWER PACKS WITHIN EACH ROOM UNLESS NOTED OTHERWISE. REFER TO WIRING DIAGRAMS ON DETAILS SHEET FOR MORE INFORMATION.

LIGHT FIXTURES AND WALL MOUNTED ELECTRICAL DEVICES.

151'-250' = #8 AWG

- EQUIVALENTS. EXISTING CONDITIONS SHOW THEY USE F32T8 FOR 2X4 AND F17T8 FOR 2X2. VERIFY IN FIELD EXACT BULB
- AND CIRCUITS FOR SALES FLOOR LIGHTING.

- 8 EXISTING EXIT SIGNS TO BE RE-INSTSALED FROM

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**project** title

SUMMIT FAIR 910 G NW Blue Pkw Lee's Summit, MO 64 RED DEVEL

**project** number

**drawing** issuance

drawing revisions

professional seal

DATE SIGNED: 06-14-23

smith & boucher 25618 west 103rd St olathe, ks 6606 phone 913.345.2127 fax 913.345.0617 SBI PROJECT NUMBER: 2318400

LIGHTING PLAN - NEW WORK

## **PLAN NOTES:**

1 PROVIDE 2'-0" WHIP WITH A QUAD THAT WILL ATTACH INSIDE THE MILLWORK BY OTHERS. TRENCH AS REQUIRED TO BRING THE CONDUITS UNDER THE CASHWRAP LOCATION. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2 PROVIDE (1) DEDICATED QUAD RECEPTACLE & (1) DUPLEX RECEPTACLE (IN-GROUND) AT "POS" LOCATION. COORDINATE WITH ARCHITECT/OWNER EXACT LOCATION OF "POS" PRIOR TO ROUGH-IN. ALSO PROVIDE 1" CONDUIT FOR RUNNING (3) CAT6 CABLING BY OTHERS PER TILL AT THE LOCATION SHOWN. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. TRENCH AS REQUIRED FOR BRINGING POWER & CONDUIT TO THE TILL LOCATIONS.

3 6'-0"x2'-0""x3/4" FIRE RATED PLYWOOD INSTALLED AT 5'-3 1/4" ON CENTER FOR RFID RECEIVING DESK. SURFACE MOUNTED PLYWOOD TO BE PAINTED TO MATCH THE COLOUR OF THE WALL. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. TRENCH AS REQUIRED FOR BRINGING POWER & CONDUIT TO THE TILL LOCATIONS. COORDINATE EXACT LOCATION WITH LULULEMON & ARCHITECT. 4 RE-USE EXISTING OUTLETS FOR REQUIRED LULULEMON

TELECOM & NETWORKING RACK ON EXISTING PLYWOOD BACKBOARD. PROVIDE ADDITIONAL (2) DATA OUTLET ROUGH-IN ON AVAILABLE SPACE. REFER TO REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE (1) DEDICATED QUAD RECEPTACLE, (3) DATA OUTLETS & (1) DUPLEX RECEPTACLE (IN-GROUND) AT "POS" LOCATION. COORDINATE WITH ARCHITECT/OWNER EXACT

LOCATION OF "POS" PRIOR TO ROUGH-IN. ALSO PROVIDE 1" CONDUIT FOR RUNNING (3) CAT6 CABLING BY OTHERS PER TILL AT THE LOCATION SHOWN. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. TRENCH AS REQUIRED FOR BRINGING POWER & CONDUIT TO THE TILL LOCATIONS.

6 VERIFY IN FIELD IF EXISTING FOR (3) 3/4" CONDUIT ON TOP OF PLYWOOD FOR SECURITY, MAIN PHONE LINE & OTHER FUTURE CONDUIT FOR FUTURE USES ROUTED UP TO DECK. IF THIS DOESN'T EXIST, PROVIDE MISSING CONDUITS. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.

7 PROVIDE (1) 1" CONDUIT TO A LARGER JUNCTION TO ACCOMODATE A FACE PLATE FOR (6) DATA OUTLETS BY OTHERS. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.

8 EXISTING LIGHTING CONTACTORS AND TIMER CONTROLS.

9 LOCATION REFERENCE FOR TRAFFIC COUNTER. WORK TO BE COMPLETED BY TENANT.

10 LOCATION REFERENCE FOR SECURITY CAMERA. WORK TO BE COMPELTED BY TENANT.

11 EXISTING FIRE ALARM DEVICE RELOCATED. RE-CONNECT TO EXISTING FIRE ALARM SYSTEM AS REQUIRED.

**G NW Blue** RED 910

Summit,

e-S

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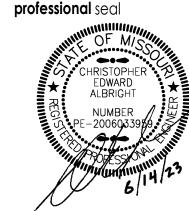
ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work

**project** number

drawing issuance

Permit Set

drawing revisions



DATE SIGNED: 06-14-23 drawing title

POWER PLAN - NEW WORK drawing number

SBI PROJECT NUMBER: 2318400

POWER PLAN - NEW WORK

smith & boucher engineers

25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617

12 VERIFY IN FIELD IF CIRCUIT CAN BE UTILIZED. IF CIRCUIT IS NOT AVAILABLE, CIRCUIT TO SPARE 20A-1P BREAKER ON

ΔΦ

RTU-2

B-19

<u>RTU-1</u>

INTERIOR FIXTURE SCHEDULE

FP22 2X2 LED FIELD SELECTABLE CCT & OUTPUT FLAT PANEL.

MID OUTPUT. INTEGRAL 0-10V DIMMING DRIVER.

FP24 2X4 LED FIELD SELECTABLE CCT & OUTPUT FLAT PANEL.

TL3 SLIM STYLE GIMBAL LINE VOLTAGE TRACK FIXTURE HEAD.

BLACK FINISH. PHILLIPS 17W LED PAR38 BULB.

COORDINATE EXACT LENGTHS WITH DRAWINGS.

BLACK FINISH. MAX 1920W PER CIRCUIT, PER NEC 80%

3'-0" LENGTH. MEDIUM OUTPUT. STANDARD 0-10V 1% DIM.

EX3 LED EXIT SIGN WITH THERMOPLASTIC HOUSING. WHITE FINISH

PROVIDE NECESSARY BATTERY TO POWER ALL ELA Q SERIES FIXTURE.

BATTERY CAPABLE OF 90 MINUTES OF EMERGENCY OPERATION.

AND RED LETTERING. PROVIDE ARROWS AS NOTED ON DRAWINGS,

PROVIDE TOP, BACK, OR SIDE MOUNT HARDWARE AS REQUIRED BY

ARCHITECTURAL CONDITIONS. BATTERY CAPABLE OF 90 MINUTES OF

AND SINGLE OR DOUBLE SIDED AS NEEDED AND SHOWN ON DRAWINGS

SINGLE CIRCUIT LINE VOLTAGE TRACK.

PROVIDE NECESSARY CONNECTORS.

BLACK FINISH. J-TYPE MOUNTING.

BLACK FINISH. FLAT DIFFUSER.

EMERGENCY OPERATION.

E1 EMERGENCY TWIN BUG EYE LED FIXTURE.

INTEGRAL ON/OFF SWITCH.

CAPACITY RULE.

TL5 TRACK WALL WASHER.

BLACK FINISH.

TRIAC, ELV DIMMING

W3 2" WIDTH LED LINEAR FIXTURE.

E26 MEDIUM SKIRTED BASE.

MID OUTPUT. INTEGRAL 0-10V DIMMING DRIVER.

DESCRIPTION

INSTALL RACEWAY INTO ACCESSIBLE CEILING SPACE. LABEL "TELE/DATA" AS APPLICABLE. PLENUM RATED "SMURF" TUBE IS AN ACCEPTABLE ALTERNATE TO EMT WHERE INSTALLED CONCEALED IN WALLS ONLY. EXPOSED "SMURF" TUBE NOT ALLOWED (INCLUDING ABOVE ACCESSIBLE CEILING. - LAY-IN OR ACCESSIBLE CEILING (IF INACCESSIBLE. EXTEND CONDUIT TO ACCESSIBLE LOCATION OR INSTALL ACCESS PANEL.) WALL (CMU, CONCRETE OR GYP BOARD) REFER TO "TELECOM ROUGH IN CHART" FOR MINIMUM RACEWAY AND BACK BOX SIZE. TERMINATE AT BACK BOX WITH INSULATION BUSHING (TYP.) FOR CMU AND CONCRETE WALLS, GROUT JOINT SUCH THAT COVER PLATE HAS A FLAT SURFACE (TYP) **GENERAL NOTES** INSTALL OUTLET BOX AT STANDARD 18" HEIGHT UNLESS OTHERWISE NOTED. RE: PLANS FOR SPECIAL MOUNTING HEIGHTS.

COMMUNICATIONS CONDUIT STUB UP

(SYMBOLS  $\nabla$ )

SCALE: NO SCALE

MOUNTING

RECESSED

RECESSED

MOUNTED

SUSPENDED

TRACK

MOUNTED

SURFACE

PENDANT

SURFACE

**CEILING** 

LAMP

LED

**3800 LUMENS** 

3500K

80 CRI

LED

4600 LUMENS

3500K

80 CRI

LED PAR38 BULB

1200 LUMENS

3000K

TL3

FOR HEAD

LED

1600 LUMENS

3000K

90 CRI

LED

608 LUM/FT

3000K

VOLTS

**MANUFACTURER** 

UNV SOLAIS - LUMITRAY 2X2

UNV SOLAIS - LUMITRAY 2X4

120 CONTECH LIGHTING - LT

120 LUMENTURE - TWW160

UNV CORONET - LS1 DIRECT

UNV LITHONIA - ELA Q SERIES

UNV BEST LIGHTING - EZXTEU

120 CONTECH LIGHTING - CTL838/2

**GENERAL NOTES:** 1. LIGHT SOLID LINES REPRESENT EXISTING EQUIPMENT OR MATERIAL TO REMAIN EXCEPT WHERE OTHERWISE NOTED. EXISTING WIREWAY 28,300A AVAILABLE AIC **EXISTING EXISTING** PANEL 'A' PANEL 'B' 200A 200A 277/480V 120/208V EXISTING 200A 3Ø, 4W 3Ø, 4W METER AND ASSOCIATED DISCONNECT SHALL REMAIN. EXISTING TO REMAIN 45 KVA TRANSFORMER 277/480V, 3ø GRADE EXISTING #6 EXISTING GROUND TO (4)#1/0,#6G, IN 2"C(3)#4,#8G, IN 1-1/2"C REMAIN (4)#3/0,#6G, IN 2"C

EXISTING ELECTRICAL RISER DIAGRAM

SMOKE DETECTOR IN THIS AREA — FINISHED CEILING-AUDIO/VISUAL - TOP OF DETECTOR THERMOSTAT (EXCEPT ADA GUESTROOMS) **ACCEPTABLE** HERE - ABOVE COUNTER DEVICE EXCEPTIONS: RESTROOM VANITY/SINK LOCATIONS AND ANY NEAR OR ADJACENT TO A WALL MOUNTED OPERABLE DEVICE 1. MOUNTING HEIGHTS SHOWN IN THIS PULL STATION DETAIL ARE TYPICAL UNLESS SHOWN OTHERWISE ON THE PLANS. WALL MOUNTED OPERABLE DEVICES 2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS. ABOVE COUNTER DEVICES (SEE NOTE BELOW) POWER/COMMUNICATION DEVICES AND SYSTEMS FURNITURE OUTLETS. FINISHED FLOOR LEVEL

DO NOT PLACE

VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICES) DEVICE 80" ABOVE HIGHEST FLOOR LEVEL OR 6" BELOW CEILING WHICH EVER IS LOWER (ADA 1993). BOTTOM OF DEVICE 80" AFF

AUDIO UNIT (FIRE ALARM NOTIFICATION DEVICE) TOP OF UNIT AT LEAST 90" AFF OR 6" BELOW CEILING WHICH EVER IS LOWER (NFPA).

AUDIO/VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICE) LOCATION DETERMINED BY VISUAL UNIT REQUIREMENTS (NFPA).

PULL STATION (FIRE ALARM ACTIVATION DEVICE) HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) ADA 1993. OPERABLE PART (T-HANDLE) SHALL BE NOT LESS THAN 42" AFF (NFPA).

WALL MOUNTED OPERABLE DEVICES

OPERABLE DEVICES SHALL BE LOCATED 46" AFF, TO THE CENTER OF THE BOX. WALL MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: ADJUSTABLE THERMOSTATS.

LIGHTING SWITCHES/DIMMERS/CONTROLS **PUSH BUTTONS** 

INTERCOMS OTHER CONTROL OR "CALL" DEVICES SPEAKER VOLUME CONTROL CARD READERS

POWER/COMMUNICATION DEVICES:

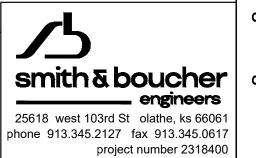
POWER/COMMUNICATION DEVICES SHALL BE LOCATED 18" AFF, TO THE CENTER OF THE BOX. POWER/COMMUNICATION DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

RECEPTACLES PHONE AND DATA OUTLETS TELEVISION OUTLETS

**ABOVE COUNTER DEVICES:** 

ABOVE COUNTER DEVICES SHALL BE MOUNTED HORIZONTALLY AND LOCATED 1" ABOVE THE TOP OF THE COUNTER BACKSPLASH (2" TO CENTER OF BOX). (PLAN DESIGNATION → □ → ). VERIFY W/ ARCH ELEVATIONS AND DETAILS. EXCEPTIONS: RESTROOM VANITY/SINK LOCATIONS AND ANY NEAR OR ADJACENT TO A WALL MOUNTED OPERABLE DEVICE.

WALL MOUNTED DEVICES: MOUNTING HEIGHTS



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**project** number

**drawing** issuance

drawing revisions

No. Description:

professional seal

DATE SIGNED: 06/14/2023 **drawing** title

**ELECTRICAL - SCHEDULES AND** 

ITALIC - EXISTING **BOLD - DEMO** 

W WINDOW RECEPTS	1	20		O	20	,	BACK ROOM RECEP 13	LIG	. NL/LXIT/LWLNG.	1	20	J	U		1	STACE ONLY
TG: CANS S WINDOW	1	20	7	8	20	1	SALES FLOOR RECEPTS	LTG: TAYLOR	SHOP/STOCK EM	1	20	7	8		1	SPACE ONLY
TG: CANS W WINDOW	1	20	9	10	20	1	SALE		SIGNS	1	20	9	10		1	SPACE ONLY
G: CANS W WINDOW	1	20	11	12	20	1	LTG: CANS SALES		SPACE ONLY	1		11	12		1	SPACE ONLY
LTG: CANS SALES FL	1	20	13	14	20	1	CASH WRAP		SPACE ONLY	1		13	14		1	SPACE ONLY
LTG: CANS	1	20	15	16	20	1	CASH WRAP		SPACE ONLY	1		15	16		1	SPACE ONLY
AMPLIFIER RECEPT	1	20	17	18	20	1	CASH WRAP		SPACE ONLY	1		17	18		1	SPACE ONLY
REFRIGERATOR	1	20	19	20	20	1	TAYLOR SHOP RECEPTS		SPACE ONLY	1		19	20		1	SPACE ONLY
MICROWAVE	1	20	21	22	20	1	TAYLOR SHOP RECEPTS		SPACE ONLY	1		21	22		1	SPACE ONLY
SECURITY RECEPT	1	20	23	24	20	1	TAYLOR SHOP RECEPTS		SPACE ONLY	1		23	24		1	SPACE ONLY
ACK ROOM RECEPTS	1	20	25	26	20	1	TAYLOR SHOP RECEPTS		SPACE ONLY	1		25	26		1	SPACE ONLY
YLOR SHOP RECEPTS	1	20	27	28	20	1	TAYLOR SHOP RECEPTS		SPACE ONLY	1		27	28		1	SPACE ONLY
LOR SHOP RECEPTS	1	20	29	30	20	1	TAYLOR SHOP RECEPTS		SPACE ONLY	1		29	30			SPACE ONLY
LOR SHOP RECEPTS	1	20	31	32	20	1	SALES FLOOR RECEPTS		RTU #2	3	30	31	32	30	3	RTU-2
PHONE/DATA RECEPT	1	20	33	34	20	1	SALES FLOOR RECEPTS					33	34			
EMS	1	20	35	36	20	1	SALES FLOOR RECEPTS					35	36			
SPACE ONLY	1		37	38	20	1	SPARE		RTU #1	3	30	37	38	70	3	PANEL 'B' - 45
SPACE ONLY	1		39	40	20	1	SPARE					39	40			
SPACE ONLY	1		41	42	20	1	WATER HEATER					41	42			
/G								ITALIC - EXISTING BOLD - DEMO								
B (EXIST	ΓIN	G NEV	V WOR	K)				PANEL	A (EXISTI	NO	NEW	WORI	<b>(</b> )		—	
3: 200 A 150 A 208Y/120 V	A S	IC: ECTIONS: OUNTING:		22,000 A 1 - 42 SPA SURFACE			EQUIPMENT GROUND BUS	MAIN BUS AMPS: MAIN BREAKER: VOLTAGE:	200 A 200 A 480Y/277 V		CTIONS:		22,000 A 1 - 42 SPA SURFACE			EQUIPM

PANEL B (EXISTING NEW WORK)											
MAIN BREAKER: 1 VOLTAGE: 2	200 A 150 A 208Y/120 V 3 PH / 4 W	MC	C: CTIONS: DUNTING: ICLOSURE	TYPE:	22,000 A 1 - 42 SPA SURFACE NEMA 1	CE	EQUIPMENT GROUND BUS				
CIRCUIT DESCRIPTION			AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION			
BATHROOM/WAT	TER FOUNTAIN	1	20	1	2	20	1	BACK ROOM RECEPTS			
SHOW WIND	OOW RECEPTS	1	20	3	4	20	1	BACK ROOM RECEPTS			
SHOW WIND	OOW RECEPTS	1	20	5	6	20	1	BACK ROOM RECEPTS			
	NS S WINDOW		20	7	8	20	1	SALES FLOOR RECEPTS			
LTG: CAN	IS W WINDOW	1	20	9	10	20	1	SALE			
LTG : CAN	IS W WINDOW	1	20	11	12	20	1	*LTG: SALES FLOOR TRACK			
*LTG: SALES	FLOOR TRACK	1	20	13	14	20	1	CASH WRAP			
*LTG: SALES	FLOOR TRACK	1	20	15	16	20	1	CASH WRAP			
AMPL	IFIER RECEPT	1	20	17	18	20	1	CASH WRAP			
RE	EFRIGERATOR	1	20	19	20	20	1	LTG: SALES FLOOR TRACK			
	MICROWAVE	1	20	21	22	20	1	REC - POS #1 - DUPLEX			
SECU	JRITY RECEPT	1	20	23	24	20	1	REC - POS #2 - QUADS			
BACK RO	DOM RECEPTS	1	20	25	26	20	1	REC - POS #3 - QUADS			
	SPARE	1	20	27	28	20	1	REC - RFID EQUIPMENT			
	SPARE	1	20	29	30	20	1	REC - MANAGERS OFFICE			
	SPARE	1	20	31	32	20	1	SALES FLOOR RECEPTS			
TELEPHONE/	DATA RECEPT	1	20	33	34	20	1	SALES FLOOR RECEPTS			
	EMS	1	20	35	36	20	1	SALES FLOOR RECEPTS			
	SPACE ONLY	1		37	38	20	1	SPARE			
	SPACE ONLY	1		39	40	20	1	SPARE			
	SPACE ONLY	1		41	42	20	1	WATER HEATER			

ITALIC - EXISTING **BOLD - NEW** 

UPDATE PANEL SCHEDULE PER NEW WORK

\*CIRCUIT TO BE RE-USED WITH NAME CHANGE IN SCHEDULE.

PANEL MAIN BUS AMPS: MAIN BREAKER: VOLTAGE: PHASES/WIRES:  A (EXIST 200 A 200 A 480Y/277 V 9HASES/WIRES: 3 PH / 4 W	AI SE M	G DEMO WO IC: ECTIONS: OUNTING: NCLOSURE TYPE:		22,000 A 1 - 42 SPACE SURFACE NEMA 1			EQUIPMENT GROUND BUS
CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
LTG: SALES AREA	1	20	1	2			LTG - WALL WASHERS
LTG: SALES AREA	1	20	3	4		1	LTG - WALL WASHERS
LTG: NL/EXIT/EMERG		20	5	6		1	SPACE ONLY
LTG: TAYLOR SHOP/STOCK EN		20	7	8		1	SPACE ONLY
SIGNS		20	9	10		1	SPACE ONLY
SPACE ONLY			11	12		1	SPACE ONLY
SPACE ONLY			13	14		1	SPACE ONLY
SPACE ONLY			15	16		1	SPACE ONLY
SPACE ONLY			17	18		1	SPACE ONLY
SPACE ONLY	1		19	20		1	SPACE ONLY
SPACE ONLY	1		21	22		1	SPACE ONLY
SPACE ONLY			23	24		1	SPACE ONLY
SPACE ONLY	1		25	26		1	SPACE ONLY
SPACE ONLY	1		27	28		1	SPACE ONLY
SPACE ONLY			29	30		1	SPACE ONLY
RTU #.	2 3	30	31	32	30	3	RTU-2
			33	34			
			35	36			
RTU#	3	30	37	38	70	3	PANEL 'B' - 45KVA XFRM
			39	40			
			41	42			

PMENT GROUND BUS

PHASES/WIRES: 3 PH / 4 W ENCLOSURE TYPE: NEMA 1 CIRCUIT DESCRIPTION CIRCUIT DESCRIPTION LTG: SALES AREA 1 1 LTG - WALL WASHERS 1 LTG - WALL WASHERS LTG: SALES AREA 3 4 1 SPACE ONLY LTG: NL/EXIT/EMERG. 5 6 1 SPACE ONLY 20

LTG: TAYLOR SHOP/STOCK EM 1 SPACE ONLY 20 SIGNS 9 10 1 SPACE ONLY SPACE ONLY 11 12 1 SPACE ONLY SPACE ONLY 13 14 1 SPACE ONLY SPACE ONLY 15 1 SPACE ONLY SPACE ONLY 17 18 1 SPACE ONLY SPACE ONLY 19 1 SPACE ONLY SPACE ONLY 21 22 1 SPACE ONLY SPACE ONLY 23 24 1 SPACE ONLY 1 SPACE ONLY 1 SPACE ONLY SPACE ONLY 25 27 SPACE ONLY SPACE ONLY 30 3 RTU-2 RTU #2 33 70 3 PANEL 'B' - 45KVA XFRM RTU #1 3 30 37 38 41

ITALIC - EXISTING **BOLD - NEW** 

UPDATE PANEL SCHEDULE PER NEW WORK

**project** number

**drawing** issuance Permit Set

**drawing** revisions No. Description:

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Specifications and other Drawings may affect the Work described. Failure to review and integrate the design intent of the whole of the

Construction Documents does not relieve the Contractor from providing a complete Project. COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work

until all permits and required approvals are obtained. VERIFY ACTUAL CONDITIONS and dimensions prior to construction. Commencement of work constitutes verification and acceptance of all existing

conditions. Application of a material or equipment item to Work

installed by others constitutes acceptance of that Work, and

assumption of responsibility for satisfactory installation. DIMENSIONS

SHOWN are to finish face of a material unless otherwise indicated. CALCULATE & MEASURE dimensions - DO NOT SCALE drawings unless

otherwise directed.

SUMMIT FAIR 910 G NW Blue Pkw Lee's Summit, MO 64

project title

professional seal

DATE SIGNED: 06/14/2023 drawing title

ELECTRICAL - SCHEDULES AND

5 smith & boucher engineers

25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617 project number 2318400

