LEE'S SUMMIT POLICE RENOVATION

10 NE TUDOR RD LEE'S SUMMIT, MO 64086

HOEFER WELKER

HW PROJECT NO: 138191

OWNER

CITY OF LEE'S SUMMIT 220 SE GREEN LEE'S SUMMIT, MO 64063 816.969.1000

ARCHITECT

HOEFER WELKER 4622 PENNSYLVANIA AVENUE, SUITE 1400 KANSAS CITY, MO 64112 P: 913.307.3700

CONSTRUCTION MANAGER

8207 MELROSE DRIVE, SUITE 200 LENEXA, KANSAS 66214 P: 913.782.6700

STRUCTURAL ENGINEER

J&S STRUCTUREAL ENGINEERS, PA 6640 WEST 143RD STREET #250 OVERLAND PARK, KS 66223



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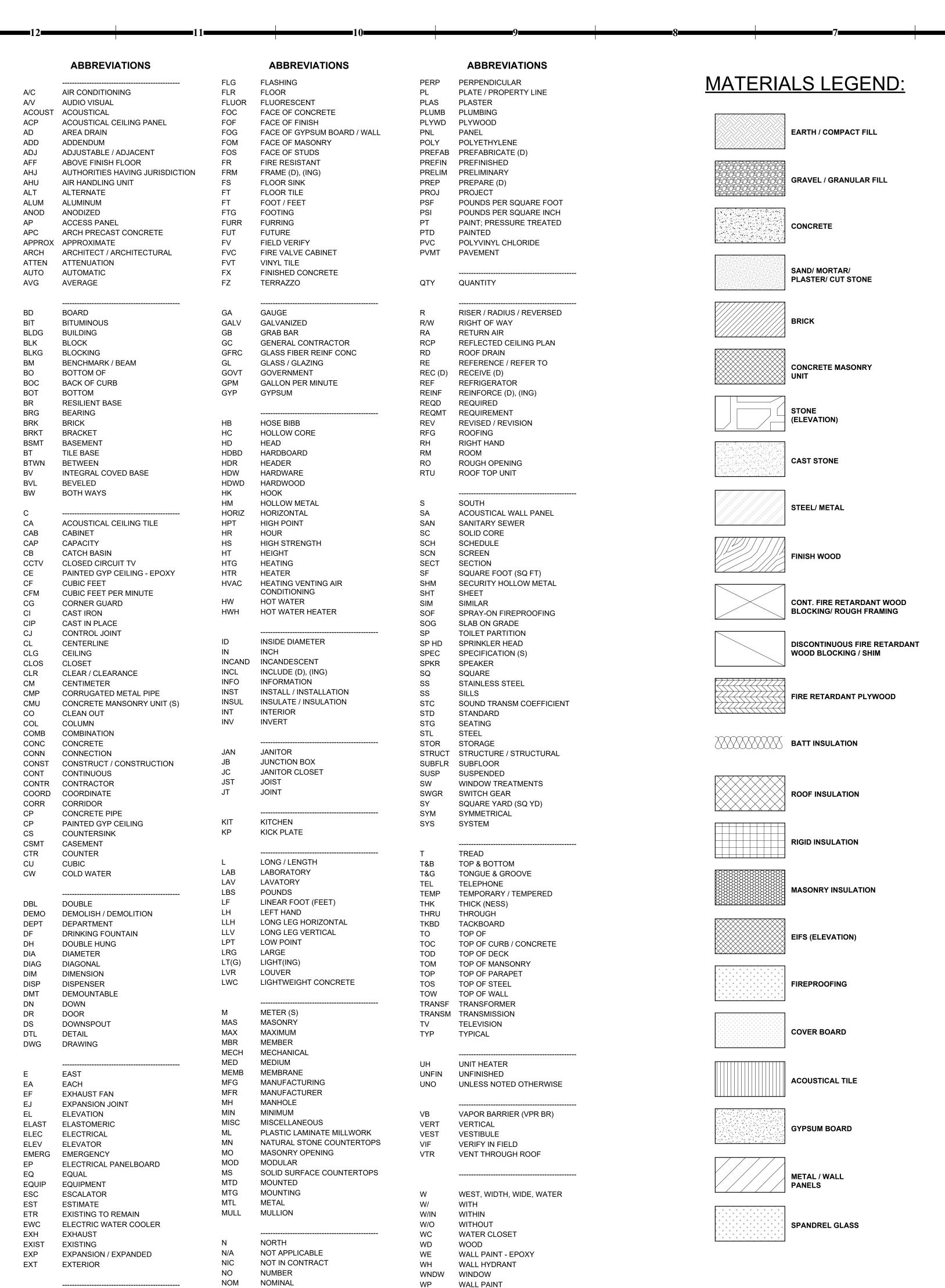
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HOEFER WELKER #: 138191

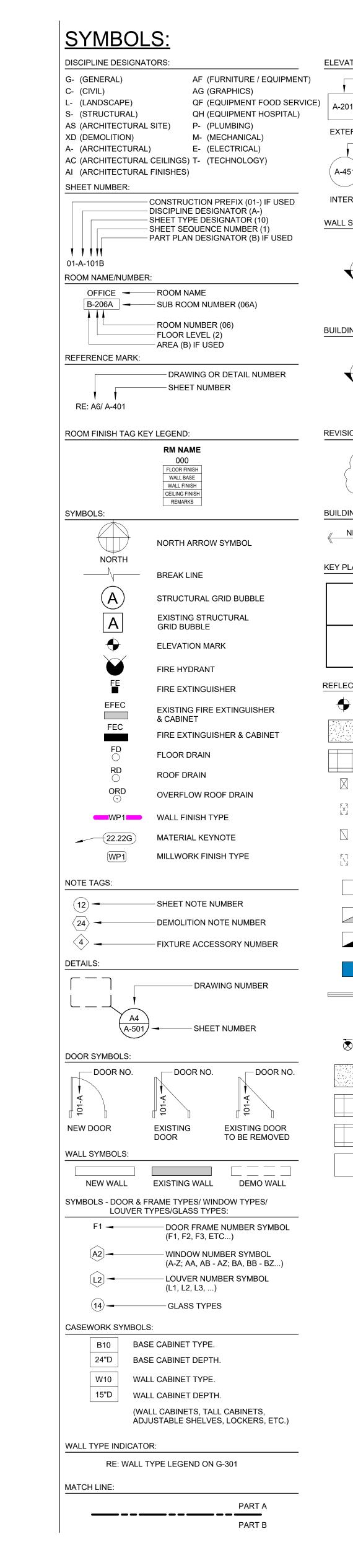
GENERAL INFORMATION



WATER RESISTENT

WALL TILE, WEIGHT

WALL COVERING



ELEVATION SYMBOLS: SHEET NUMBER - DRAWING NUMBER **EXTERIOR** - SHEET NUMBER - DRAWING NUMBER - DIRECTION INTERIOR WALL SECTION AND DETAIL SYMBOLS: - DRAWING NUMBER - SHEET NUMBER - DIRECTION **BUILDING SECTIONS:** BUILDING SECTION NUMBER — A-301 SHEET NUMBER ——A-301 - DIRECTION -REVISION MARK/ CLOUD: - REVISION NUMBER **BUILDING ADDITION NOTATION:** KEY PLAN SYMBOL - HATCHED AREA IS PART PLAN AS SHOWN ON SHEET (B) REFLECTED CEILING PLAN SYMBOLS: GYP. BD. SUSP. CEILING SYSTEM SUPPLY AIR UP SUPPLY AIR DOWN RETURN / EXHAUST AIR UP RETURN / EXHAUST AIR DOWN LIGHT FIXTURE CRITICAL LIGHT FIXTURE LIFE SAFETY LIGHT FIXTURE WITH EMERGENCY BATTERY INNERSCENE CIRCADIAN SKY FIXTURE FLUORESCENT STRIP FIXTURE CAN LIGHT FIRE EXIT SIGN -CONTROL JOINT IN GYP BD CEILING 2'X4' LAY-IN CEILING 2'X2' LAY-IN CEILING

OPEN TO STRUCTURE

1. ALL CONTRACTORS AND THEIR SUPERVISORY PERSONNEL SHALL REVIEW THE GENERAL ANDSUPPLEMENTARY CONDITIONS TO THE CONTRACT. 2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS AND ORDINANCES. 3. CONTRACTOR SHALL OBTAIN ALL REQUIRED BUILDING AND OCCUPANCY PERMITS. 4. CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. 5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS. 6. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR. 7. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. COMMENCING WITH INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS. 8. DO NOT SCALE DRAWINGS: FOLLOW WRITTEN DIMENSIONS AND NOTES. CONTACT ARCHITECT FOR CLARIFICATIONS, IF REQUIRED. 9. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE 10. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE. 11. FOR WOOD CONSTRUCTION, DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF STUD (FOS), UNLESS NOTED OR SHOWN OTHERWISE 12. NOTE: ALL WALL THICKNESSES ARE ACTUAL DIMENSIONS 13. "TYPICAL", AS USED IN THESE DOCUMENTS, SHALL MEAN THAT THE CONDITION OR DIMENSION IS REPRESENTATIVE OF. OR THE SAME, FOR SIMILAR CONDITIONS THROUGHOUT. 14. IF THERE IS A DISCREPANCY BETWEEN SMALL SCALE AND LARGE SCALE DRAWINGS, (PLAN, SECTION, & DETAIL DRAWINGS, ETC.) - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN. 15. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL 16. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. 17. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. IN THESE INSTANCES: NO CHANGE ORDERS OR EXTENSIONS OF TIME WILL BE ALLOWED OR ACCEPTED FOR PROCEEDING WITH THE WORK WITHOUT THE ARCHITECT'S WRITTEN DIRECTION AND APPROVAL. ALSO -CONTRACTOR MUST REPAIR AND/OR REPLACE ANY UNAUTHORIZED WORK, AS INDICATED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER. 18. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH AN APPROVED NONMETAL ISOLATION MATERIAL. 19. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, ETC. – SHALL BE SEALED, CAULKED, FLASHED OR WEATHER-STRIPPED AS REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS & TO ELIMINATE AIR LEAKAGE AND 20. PROVIDE SEALANT AND/OR CAULKING BETWEEN DISSIMILAR ADJOINING INTERIOR MATERIALS. (I.E. WINDOW SILLS TO GYP. BD., ACT CEILINGS TO MASONRY WALLS, ETC.) 21. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO EDGE OF DOOR FRAME, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE OF THE DOOR TO THE INTERSECTING WALL. 22. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND THEIR SERVICE CONNECTIONS WITH THE PROPER UTILITY COMPANY. 23. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FINAL SIZE AND DEPTH OF THE ELEVATOR PIT, SHAFT, RAIL SUPPORT, HOIST SUPPORT, OVERRUN AND MISC. ELEVATOR REQUIREMENTS WITH THE SELECTED ELEVATOR MANUFACTURER/ SUPPLIER. 24. CONTRACTOR SHALL COORDINATE SIZE, LOCATIONS AND NUMBER OF ALL ROOF OPENINGS AND ROOF ACCESSORIES WITH ALL OTHER TRADES. REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS. 25. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER/SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. 26. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE HELD AT 5/8 INCH BELOW STRUCTURE, UNLESS DETAILED OR NOTED OTHERWISE. 27. AT ALL TELECOMMUNICATION ROOMS: PROVIDE 3/4" X 8'-0" HIGH FIRE-RETARDANT-TREATED WOOD SHEATHING OR PROVIDE PLYWOOD OVER NON-COMBUSTIBLE SHEATHING; BOTTOM TO BE LOCATED AT 4" A.F.F. VERIFY LENGTHS AND LOCATIONS WITH ELECTRICAL DRAWINGS. 28. GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 1'-6" OF THE FLOOR, AND WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF A DOOR, ETC., SHALL BE SAFETY GLAZING AS APPROVED FOR IMPACT BY APPLICABLE BUILDING CODES, AND SHALL BE LABELED AS SUCH. 29. ALL CEILING HEIGHTS AS SHOWN ON PLANS AND DETAILS ARE FROM SLAB OR TILE FLOOR (FINISHED FLOOR) TO FINISH CEILING. 30. PROVIDE INDEPENDENT FRAMING & ATTACHMENTS TO THE STRUCTURE – ADEQUATE TO SUPPORT THE CEILING SYSTEM, LIGHT FIXTURES, DUCTS, DIFFUSERS, SPRINKLER PIPING AND 31. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES. 32. CONTRACTOR TO INSTALL WOOD BLOCKING AND PLYWOOD AS REQUIRED FOR THE MOUNTING OF ALL TOILET ACCESSORIES, MILLWORK/ CASEWORK, AV EQUIPMENT, AND MEP ITEMS, ETC. 33. RE: SPECIFICATIONS FOR ALL REQUIRED TESTING AND INSPECTIONS. 34. ANY/ ALL PROPRIETARY PRODUCTS DESCRIBED AND/OR DRAWN IN THE DOCUMENTS (BUT NOT SPECIFIED) ARE TO MEET THE MANUFACTURER'S STANDARD CRITERIA WHICH IS NOT LIMITED TO THE FOLLOWING: PERFORMANCE REQUIREMENTS, QUALITY ASSURANCE REQUIREMENTS, APPLICABLE CODES AND INDUSTRY STANDARDS, FABRICATION, ASSEMBLY, HANDLING, DELIVERY, STORAGE, INSTALLATION, OPERATION, ADJUSTMENTS, ETC. PROVIDE THE MANUFACTURER'S STANDARD WARRANTY AND STANDARD FINISH WARRANTY. PROVIDE PRODUCT DATA, SHOP DRAWINGS, SAMPLES, AND MAINTENANCE DATA AS REQUIRED. REFER TO DIVISION 01 SPEC. SECTIONS WHICH ALSO APPLY - SUCH AS SUBSTITUTION PROCEDURES, SUBMITTAL PROCEDURES, QUALITY REQUIREMENTS, REFERENCES, EXECUTION, AND CLOSEOUT PROCEDURES. NOTE: ANY SUBSTITUTIONS MUST MEET THE DESIGN INTENT, AS WELL AS THE CRITERIA DESCRIBED ABOVE.

GENERAL INFORMATION NOTES:

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FIRE ALARM

FABRICATE

FACE BRICK

FLOOR DRAIN

FOUNDATION

FINISH FLOOR

FIRE HYDRANT

FIRE HOSE CABINET

FINISH / FINISHED

CARPET

FURNISHED BY OWNER

VINYL COMPOSITION TILE

FIRE DEPARTMENT VALVE

FINISH FLOOR ELEVATION

FIRE EXTINGUISHER AND BRACKET

FIXTURES / FURNITURE / EQUIPMENT

FAB

FBO

FCT

FDN

NOISE REDUCTION COEFFICIENT

OVERHEAD / OPPOSITE HAND

OVERFLOW ROOF DRAIN

NOT TO SCALE

ON CENTER

OPENING

OPPOSITE

OUNCE

PUBLIC ACCESS

PRECAST CONCRETE

PANEL BOARD

PERFORATE (D)

PERM PERMANENT

OPP

ORD

PERF

OUTSIDE DIAMETER

HOEFER WELKER 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112 P: 913.307.3700 www.hoeferwelker.com

CONSTRUCTION As Noted on Plans Review

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GENERAL NOTES - ACCESSIBILITY GUIDELINES: . NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE. ADA/ ABA UNOBSTRUCTED REACH RANGES: FORWARD REACH = 48" MAX & 15" MIN SIDE REACH

ELEVATORS: STD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA/ ABA CALL BUTTONS: 42" TO C.L. (TYP) & 48" MAX (3/4" SMALLEST DIM). ADA/ ABA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.

DOOR HARDWARE (TO CENTER OF HARDWARE) STD MOUNTING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2", CENTER, HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STD = 1/2" MAX. AT EXT SLIDING DOORS = 3/4" MAX, ADA/ ABA HARDWARE = 34" MIN TO 48" MAX DRINKING FOUNTAINS & EWC'S (TO SPOUT): STD = 40" TYP, 42" MAX. ADA/ ABA =36" MAX (27" MIN CLEAR KNEE SPACE) COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA/

ABA = 28" MIN TO 34" MAX WATER CLOSETS (TO TOP OF SEAT): STD = 14" TO 15". ADA/ ABA (TO TOP OF SEAT) = 17" TO 19". ADA/ ABA FLUSH CONTROLS = 44" MAX URINALS (TO RIM): STD = 24" MAX. ADA/ ABA =17" MAX. ADA) ABA FLUSH CONTROLS = 44" MAX 9. LAVATORIES (TO SINK RIM/ COUNTERTOP): STD =

36" MAX. ADA/ ABA = 34" MAX (29" MIN CLEAR KNEE). MIRRORS (TO B.O. REFLECTIVE SURFACE): STD = VARIES. ADA/ ABA = 40" MAX 1. GRAB BARS: ADA/ ABA (TO T.O. OF BAR): WATER CLOSETS = 33" MIN TO 36" MAX. SHOWERS = 33" MIN TO 36" MAX (FROM B.O. SHOWER). BATHTUBS:

TOP BAR = 33" MIN TO 36" MAX B.O. BAR = 9" ABOVE TOP OF TUB. 12. TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT & 70" TO TOP. URINALS = 18" TO BOT & 60" TO TOP. 13. TOILET PAPER DISPENSERS (TO OUTLET): STD = 24". ADA/ ABA = 15" MIN TO 48" MAX

4. WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STD = 40". ADA/ ABA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA/ ABA SIDE REACH = 46" MAX ABOVE SINK INCOUNTER. 5. PAPER TOWEL DISPENSER (TO TOWEL SLOT): STD

= 40" MAX. ADA/ ABA FORWARD REACH = 48" MAX & 15" MIN. ADA/ ABA SIDE REACH = 48" MAX & 15" MIN. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA/ ABA SIDE REACH = 46" MAX. ABOVE SINK IN COUNTER. . WARM AIR HAND DRYER (TO PUSH SWITCH): STD =

44" MAX. ADA/ ABA FORWARD REACH = 48" MAX & 15" MIN. ADA/ ABA SIDE REACH = 48" MAX & 15" MIN . SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STD = 40" MAX. ADA/ ABA FORWARD REACH = 48" MAX & 15" MIN. ADA/ ABA SIDE REACH = 48" MAX & 15" MIN

18. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STD = 28" MAX. ADA/ ABA = 19" MIN TO 24" MAX (TO 9. TOILET SEAT COVER DISPENSERS (TO OPNG): STD = 40" MAX. ADA/ ABA FORWARD REACH = 48" MAX & 15" MIN. ADA/ ABA SIDE REACH = 48" MAX & 15" MIN . SHELVES: ADA/ ABA = 48" MAX

21. COAT HOOKS: STD = 68". ADA/ ABA = 48" MAX 22. CHALKBOARDS, TACKBOARDS, & MARKERBOARDS: STD = 32" TO 39" (TO B.O. BOARD OR CHALKTRAY). STD = 80" (RECOMMENDED, TO TOP OF BOARD) 23. THERMOSTATS & CONTROL DEVICES (TO TOP): ADA/ ABA FORWARD REACH = 48" MAX. ADA/ ABA

SIDE REACH = 48" MAX 24. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA/ ABA = 48" MAX 25. CONVENIENCE RECEPTACLES – ELECT/ TELEPHONE/ DATA (TO C.L.): STD = 18". ADA/ ABA =

26. EXIT LIGHTS - WALL MOUNTED: 2" MIN BELOW CLG 2" MIN ABOVE DOOR FRAME. EQUAL SPACE FROM CLG TO TOP OF FRAME. 27. FIRE EXTINGUISHERS (TO TOP, UNO): GROSS WT 40 LBS OR LESS = 60" MAX. GROSS WT MORE THAN

28. FIRE ALARM PULL STATIONS (TO LEVER): STD = 48" MAX. ADA/ ABA FORWARD REACH = 48" MAX. ADA/ ABA SIDE REACH = 48" MAX 29. SMOKE AND/OR HEAT DETECTORS: STD = CLG HT.

30. HORN/ SPEAKER/ VISUAL SIGNALS: STD = 80" AFF OR 6" BELOW CLG - WHICHEVER IS LOWER. 31. ROOM SIGNAGE (TO C.L.): STD = 60" HIGH AFF & WITHIN 18" OF LATCH SIDE OF DOOR. 32. ALL MINIMUM AND MAXIMUM DIMENSIONS ARE MEASURED FROM THE FACE OF FINISHED WALL, NOT THE FACE OF THE SUBSTRATE. 33. WHEN MAX, MIN OR DIMENSIONAL RANGE IS

GIVEN, THE CONSTRUCTION TOLERANCE DURING INSTALLATION MUST FIT WITHIN THE GIVEN RANGE, MAX OR MIN DIMENSION. NO EXCEPTIONS 34. PROVIDE KNEE PROTECTION ON EXPOSED WATER SUPPLIES, P-TRAP AND DRAIN PIPING. 35. PROVIDE BLOCKING INSIDE WALL FOR ALL HORIZONTAL AND VERTICAL GRAB BARS EVEN

NUMBER A-2016011211

REVISION DATES:



PROFESSIONAL SEAL HOEFER WELKER #: 138191

ACCESSIBILITY GUIDELINES

11/7/2024 1:05:04 PM

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL

NOTES THAT ARE APPLICABLE. 2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL CONSTRUCTION
As Noted on Plans Review

Lee's Summit, Missouri 12/16/2024

HOEFER WELKER

4622 PENNSYLVANIA AVENUE

KANSAS CITY, MO 64112

www.hoeferwelker.com

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ELEVATION XXX.XX'. 3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE. 4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.

5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE

SITE LIFE SAFETY LEGEND ● ■ 1 HOUR RATED WALL

FIRE HYDRANT

FIRE DEPARTMENT

CONNECTION BUILDING EGRESS

FIRE EXTINGUISHER CABINET

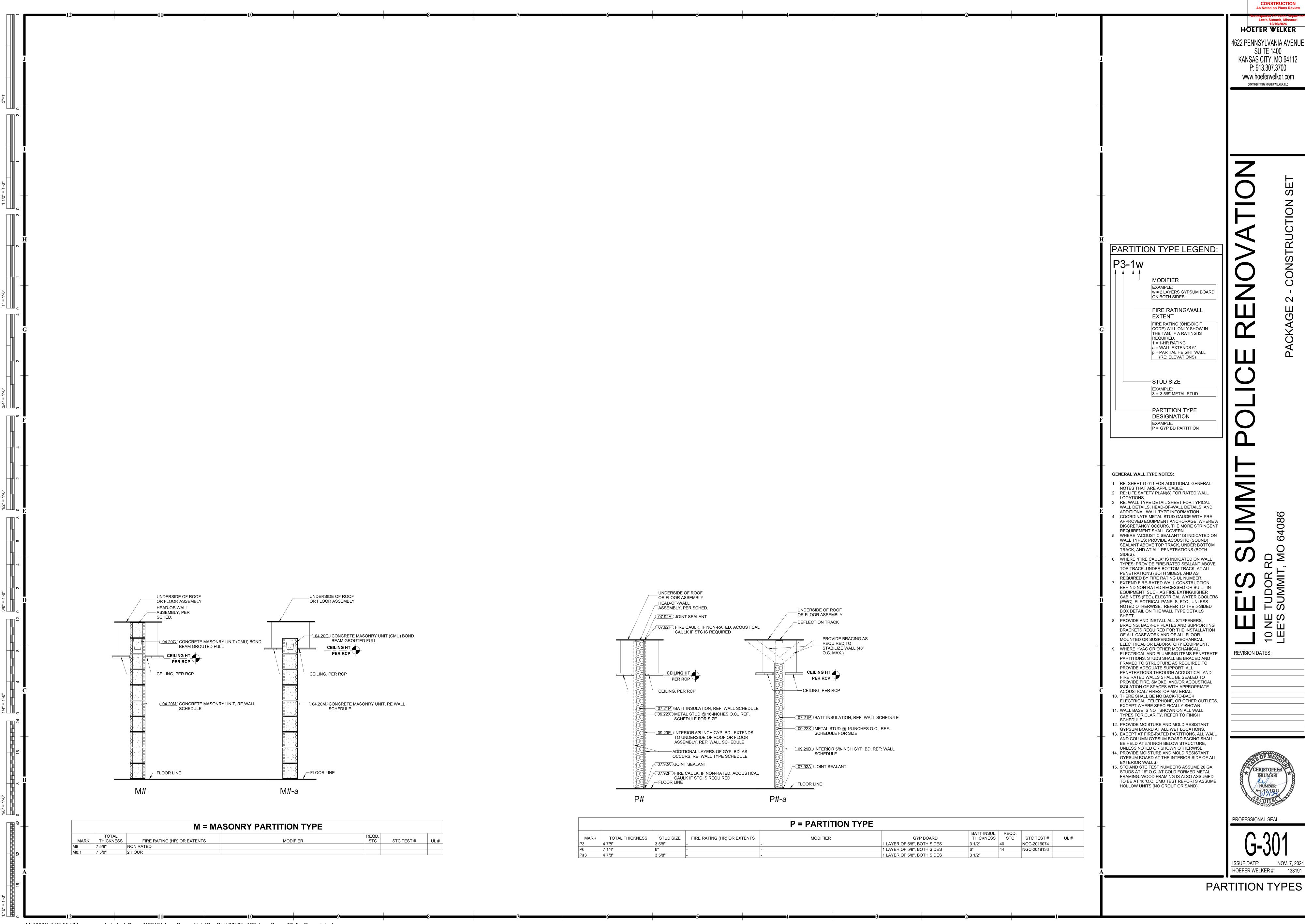
REVISION DATES:

PROFESSIONAL SEAL

ISSUE DATE: NOV. 7, 2024
HOEFER WELKER #: 138191

LIFE SAFETY PLAN

11/7/2024 1:07:33 PM



12,10,2021
HÖEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com
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CONSTRUCTION
As Noted on Plans Review

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PROFESSIONAL SEAL

ISSUE DATE: NOV. 7, 2024
HOEFER WELKER #: 138191

SPECIFICATIONS

LEE'S SUMMIT POLICE RENOVATION LEE'S SUMMIT, MO		138191		8191	LEE'S SUMMIT POLICE RENO' LEE'S SUMMIT, MO	LEE'S SUMMIT POLICE RENOVATION LEE'S SUMMIT, MO		138191	
	<u>Hardware Sets</u>				2 Hinge, Full Mortise, Hvy Wt 1 Hinge, Full Mortise, Hvy Wt 1 Fail Secure Lock	T4A3386 NRP 4-1/2" x 4-1/2" T4A3386 QC12 4-1/2" x 4-1/2" LC RX 8271-24V LNMB	US32D US32D US32D	MK 087100	
oors: L03C, L03D, L05B, L06B,	<u>Set: 1.0</u> , L312A, L312B, L312C, L312D				1 Cylinder Rim/Mortise 1 Door Closer	type as req'd for hardware item, match existing key system PR7500	689	NO 087100	9
escription: OH DOOR Hardware By Others	Hardware By Door Supplier				1 Wall Stop 1 Gasketing	409 2891AS	US32D	RO 087100 PE 087100	
	Set: 2.0				1 Rain Guard 1 Sweep	346C 3452AV		PE 087100 PE 087100	
Poors: L03B, L05C, L06A					1 Threshold	2005AT		PE 087100	
Description: EXTERIOR HMD CA	ARD READER LOCK CPS CLOSER				1 ElectroLynx Harness	QC-C1500P/QC-C1500 QC-Cxx/CxxP (size to door		MK 087100	35.5
Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US32D US32D	MK 087100 MK 087100	4	ElectroLynx Harness Position Switch	width/hardware) DPS		MK 087100 SU 087100	
Hinge, Full Mortise, Hvy Wt Fail Secure Lock	T4A3386 QC12 4-1/2" x 4-1/2" LC RX 8271-24V LNMB	US32D			1 Card Reader	Wall Mounted Reader by access		HID	7
Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system					control provider AQD or Centralized Power Source			1
Door Closer		689	NO 087100		1 Power Supply	(coordinate w/GC)		SU 087100	4
Gasketing Rain Guard	2891AS 346C		PE 087100 PE 087100			ED CARD CREDENTIAL OR MANUA	L KEY. A	LWAYS FREE	
Sweep	3452AV		PE 087100		EGRESS.				
Threshold Electrol yny Harness	2005AT		PE 087100	A		(A) 0 - 10 E			
ElectroLynx Harness	QC-C1500P/QC-C1500 QC-Cxx/CxxP (size to door		MK 087100	. 5 .0	Doors: L03A, L05A	<u>Set: 4.0</u>			
ElectroLynx Harness Position Switch	width/hardware)			* .0	and the second s	CK CPS CLOSER GASKET SWEEP TH	Η		
Position Switch	DPS Wall Mounted Reader by access		SU 087100	9	2 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	LIS26D	MK 087100	
Card Reader	control provider		HID		1 Hinge (heavy weight)	T4A3786 QC12 4-1/2" x 4-1/2"	US26D US26D		4
Power Supply	AQD or Centralized Power Source (coordinate w/GC)		SU 087100	4	1 Fail Secure Lock	LC RX 8271-24V LNMB	US32D		
Intan ACCESS DV ALITHODIZI	ED CARD CREDENTIAL OR MANUAL	VEV A	I WAVE EDEE		1 Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system			
GRESS.	ED CARD CREDENTIAL OR MANUAL	LKEY. A	LWAYSFREE		1 Door Closer	CPS7500	689	NO 087100	
					1 Gasketing 1 Sweep	S773D (Head & Jambs) 315CN		PE 087100 PE 087100	
	Set: 3.0				1 Threshold	171A		PE 087100	
Ooors: L04A	ARD READER LOCK PR CLOSER				1 ElectroLynx Harness	QC-C1500P/QC-C1500		MK 087100	4
escription. Exterior made	ARD READER EOCK I'R CLOSER				1 ElectroLynx Harness	QC-Cxx/CxxP (size to door width/hardware)		MK 087100	4
DOOR HARDWARE			08710	0 - 1	DOOR HARDWARE			08710	00 - 2
LEE'S SUMMIT POLICE RENOV LEE'S SUMMIT, MO	VATION		13	8191	LEE'S SUMMIT POLICE RENO' LEE'S SUMMIT, MO	VATION		138	8191
Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D			1 Cylinder Rim/Mortise	type as req'd for hardware item,			
1 Electric Power Transfer 1 Fail Secure Lock	EL-CEPT LC RX 8271-24V LNMB	630	SU 087100 SA 087100	*	1 Door Closer	match existing key system PR7500	689	NO 087100	
	type as req'd for hardware item,	US26D	SA 08/100	4	1 Kick Plate	K1050 10" x 2" LDW 4BE CSK	US32D		
Cylinder Rim/Mortise Door Closer	match existing key system	690	NO 087100		1 Wall Stop 3 Silencer	409 608	US32D	RO 087100 RO 087100	
Blade Stop		689 689	NO 087100 NO 087100		ಬ ಹಾದುಗರುವ	and a		-3.100	
Drop Plate		689	NO 087100						
Set Weatherstrip ElectroLynx Harness	by Door Manufacturer QC-C1500P/QC-C1500		MK 087100	4		20 1 20 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
ElectroLynx Harness	QC-Cxx/CxxP (size to door		MK 087100	4	Doors: L272, L280	<u>Set: 9.0</u>			
Position Switch	width/hardware) DPS			*	Description: INTERVIEW GASK	ET SEALS			
Card Reader	Wall Mounted Reader by access		HID	. . .	1 Gasketing, interview rooms	350CSR		PE 087100	
Power Supply	control provider AQD or Centralized Power Source (coordinate w/GC)		SU 087100	4	1 Threshold	2005AT		PE 087100 PE 087100	
Notes: ACCESS BY AUTHORIZI EGRESS.	ED CARD CREDENTIAL OR MANUAL	. KEY. A	LWAYS FREE		Notes: EXISTING DOOR/FRAM	E ADD NEW GASKET AND THRESHO	OLD.		
	Set: 7.0				END OF SECTION 087100				
Doors: L359, L361 Description: OFFICE LOCK NO C	CLOSER GASKET								
Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"		MK 087100						
Office/Entry Lock	LC 8205 LNMB	US26D	SA 087100						
Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system								
Wall Stop	409 608	US32D	RO 087100 RO 087100						
Silencer	000		NO 00/100						
	_359.								
Silencer Notes: RM850 FLOOR STOP @ I Doors: L251 Description: STOREROOM LOCK	Set: 8.0								

LC 8204 LNMB

US26D SA 087100

087100 - 4

DOOR HARDWARE

087100 - 5

1 Storeroom/Closet Lock

DOOR HARDWARE

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ABBREVIATIONS:

BOTT OF BOTTOM OF

ARCHITECT

BASEPLATE

BETWEEN

воттом

CAST IN PLACE

COMPRESSIBLE

CONCRETE

DIMENSION

CONTINUOUS

CENTERLINE

CONTROL JOINT

FACH FACE

ELEVATION

EXPANSION FINISH FLOOR

FOOTING

GRADE BEAM

HORIZONTAL

INSULATION

LONGITUDINAL

MATERIAL

MINIMUM

ON CENTER

REQUIRED

SCHEDULE

SQUARE

TOP OF

TOP OF BEAM

FOUNDATION

GALVANIZED

HEADED STUD

ISOLATION JOINT

INFORMATION

JOIST BEARING

LONG LEG HORIZONTAL

LONG LEG VERTICAL

REFERENCE

REINFORCEMENT

STANDARD

TOP AND BOTTOM

TOP OF FOOTING

TOP OF GRADE BEAM

TOP OF LINTEL

TOP OF PIER

TOP OF STEEL

TOP OF WALL

TRANSVERSE

TYPICAL

VERTICAL

TOP OF MASONRY

TOP OF TIE BEAM

UNLESS NOTED OTHERWISE

WELDED WIRE REINFORCEMENT

GRADE BEAM TYPE

REFERENCES A PLAN NOTE

ON A GIVEN PLAN SHEET

TONGUE-AND-GROOVE

KIP = 1,000 POUNDS

HOLLOW STRUCTURAL SECTION

LOAD AND RESISTANCE FACTORED DESIG

METAL BUILDING MANUFACTURER

POUNDS PER SQUARE FOOT

EDGE OF SLAB

EMBEDMENT

EACH WAY

BOTTOM OF LINTEL

BOTTOM OF METAL DECK

BOTTOM OF PIER

CONCRETE MASONRY UNIT

ARCH

BOTT

BOMD

CLR

COL COMP CONC

CONT

DIM

ELEV

EOS

EXP

GALV

HORIZ

INSUL

LLV

MAT'L

MAX

MBM

REINF REQ'D SCHED SPA SQ STD

STL

TO

TOF

TOBM

TOGB

TOM

TOTB TOW

TRANS

VERT

WWR

SYMBOLS KEY:

GRADE BEAM TAG

PLAN NOTE TAG

BEAM SPLICE

MASONRY LINTEL

_ _ _ <u>M</u>L-X_ _ _ ¬

TOP

EMBED

ALLOWABLE STRESS DESIGN

REVISION DATES:

PROFESSIONAL SEAL

HOEFER WELKER #: 138191

GENERAL STRUCTURAL NOTES

. THE CONTRACTOR/SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL THE PRECAST MEMBERS AND CONNECTION BETWEEN THEM AND OTHER STRUCTURAL MEMBERS. SUBMIT DESIGN CALCULATIONS, SEALED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION, FOR REVIEW BY THE ARCHITECT/ENGINEER OF RECORD.

2. ALL PRECAST MEMBERS ARE TO BE DESIGNED IN ACCORDANCE WITH ACI 318-14, 2018 IBC AND OTHER APPLICABLE CODES, STANDARDS (SEE SPECS) AND DESIGNED CONNECTIONS.

3. PROVIDE BLOCKOUTS AND OPENINGS FOR MECHANICAL/ELECTRICAL EQUIPMENT. REFER TO MECHANICAL/ELECTRICAL DOCUMENTS. 4. SHOP DRAWINGS SHALL BE COMPLETE AND SHALL INCLUDE A LAYOUT PLAN, FABRICATION DETAILS, ESTIMATED

CAMBER, CONNECTION AND ANCHORAGE DETAILS AND MEMBER IDENTIFICATION MARKS. IDENTIFICATION MARKS SHALL APPEAR ON MANUFACTURED UNITS TO FACILITATE CORRECT FIELD PLACEMENT. 5. REFER TO MECHNICAL/ELECTRICAL DRAWINGS FOR CONDUIT LOCATIONS EMBEDDED IN PRECAST MEMBERS

I. FABRICATOR SHALL BE AISC CERTIFIED IN LIEU OF THE PREVIOUS, FABRICATOR SHALL INCLUDE IN THEIR BID THE SERVICES OF A SPECIAL INSPECTOR TO PROVIDE INSPECTION/TESTING SERVICES FOR IN-SHOP

WORK TO MEET THE REQUIREMENTS OF 2018 INTERNATIONAL BUILDING CODE SECTION 1704. 2. STRUCTURAL STEEL SHALL MEET ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WIDE

FLANGE SHAPES SHALL MEET ASTM A992. 3. STEEL TUBES SHALL MEET ASTM A500, GRADE B.

4. STEEL PIPE SHALL MEET ASTM A53, TYPE E OR S, GRADE B.

5. BOLTS SHALL BE 3/4" DIAMETER A325-N UNLESS OTHERWISE NOTED.

6. FIELD BOLTING INSTALLATION SHALL BE INSPECTED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND THE AISC LRFD MANUAL, SECOND EDITION. BOLTS SHALL BE INSTALLED SNUG TIGHT UNLESS NOTES OTHERWISE NOTED. ASTM A-325-SC SHALL BE FULLY TIGHTENED USING LOAD

7. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE AWS D1.1-98. ELECTRODES SHALL MATCH BASE METALS AS SPECIFIED IN 2018 INTERNATIONAL BUILDING CODE.

8. ALL FIELD WELDING SHALL BE VISUALLY INSPECTED BY THE TESTING LABORATORY.

9. HOT DIP GALVANIZE ALL STEEL MEMBERS EXPOSED TO EXTERIOR TO MEET ASTM 525 G60.

10. ALL STEEL BELOW GRADE SHALL BE ENCASED IN CONCRETE WHERE POSSIBLE; IF NOT POSSIBLE, STEEL SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTIC PAINT.

I. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE BUILDING CODE SECTION 1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT.

2. DESIGNED, FABRICATED AND ERECTED IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE CHAPTER 22 AND THE STANDARD SPECIFICATIONS FOR STEEL JOIST, K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS, PUBLISHED BY THE STEEL JOIST INSTITUTE.

3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORD WITH STEEL JOIST INSTITUTE RECOMMENDATIONS. USE 'X'-BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING. LOCATE BRIDGING TO AVOID MECHANICAL OPENINGS.

4. JOIST SEAT DEPTH SHALL BE 2-1/2" FOR 'K' SERIES AND 5" INCHES FOR 'LH' SERIES UNLESS NOTED

5. DESIGN EXTENDED ENDS FOR SAME DEAD LOADS AS JOIST AND A SNOW LOAD OF 40 PSF, AND OTHER LOADS AS INDICATED. LIMIT LIVE LOAD DEFLECTION TO L/240.

6. ADDITIONAL LOADS HAVE BEEN NOTED ON FRAMING PLANS. JOISTS SHALL BE DESIGNED TO SUPPORT THE ADDITIONAL LOADS. IT IS THE JOISTS SUPPLIERS RESPONSIBILITY TO DESIGN JOIST FOR ANY LOAD IN ADDITION TO THE DEAD AND LIVE LOADS LISTED ON THIS SHEET.

1. METAL ROOF DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWINGS(22 GA. MIN.), WITH NESTABLE SIDE

2. COMPOSITE FLOOR DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWING (22 GA MIN.), WITH NESTABLE SIDE LAPS AND GALVANIZED

3. FASTEN ROOF DECK IN ACCORD WITH METAL DECK ATTACHMENT TYPES NOTED ON THE PLANS AND FASTENING DETAILS. DECK ATTACHMENT SHALL BE IN ACCORD WITH VULCRAFT AND THE STEEL DECK INSTITUTE'S SECOND EDITION OF THE DIAPHRAGM DESIGN MANUAL OR APPROVED EQUAL.

1. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 1900 PSI ON THE NET AREA, PROVIDING A STRUCTURAL DESIGN COMPRESSIVE STRENGTH OF 1500 PSI PER THE 2018 INTERNATIONAL BUILDING CODE, TABLE 2105.2.2.1.2.

2. MORTAR SHALL BE TYPE S IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, TABLE NO. 2103.7(1), MORTAR PROPORTIONS FOR UNIT MASONRY, USING CEMENT LIME OR MORTAR CEMENT MIXES. (MASONRY CEMENT IS NOT ACCEPTABLE).

3. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF GROUT SHALL BE THE GREATER OF 2500 PSI OR THE COMPRESSIVE STRENGTH OF THE MASONRY UNITS. AIR ENTRAINMENT AND OTHER ADDITIVES ARE NOT

ACCEPTABLE IN GROUT MIX. GROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES.

4. MASONRY REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

5. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD LADDER TYPE, GALVANIZED, AT 16-INCHES ON CENTER, UNLESS OTHERWISE NOTED ON PLAN. 6. MINIMUM BOND BEAM REINFORCING SHALL BE 2 - #4 IN 6" AND 8" BOND BEAMS AND 2 - #5 IN 12" BOND

ON TYPICAL MASONRY WALL OPENING DETAIL. 7. SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE IN ACCORD WITH THE REINFORCING SPLICE

LENGTH TABLE OR AS SHOWN ON THE DRAWINGS.

BEAMS. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS EXCEPT AS NOTED

8. PROVIDE BOND BEAMS AT TOP OF ALL WALLS, AT ROOFS, STRUCTURAL FLOORS, OVER ALL OPENINGS IN WALLS AND WHERE SHOWN ON THE DRAWINGS.

9. REINFORCING SHALL BE HELD IN PLACE PRIOR TO GROUTING WITH WIRE POSITIONERS PLACED AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS NOR 10 FEET. PROVIDE POSITIONERS AT REINFORCING SPLICES.

10. VERTICAL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS. 8" CONC BLOCK 1-#5 @ 4'-0" OC

11. PROVIDE 1 #5 VERTICAL REINFORCING AT JAMB OPENINGS, ENDS AND CORNERS OF ALL WALLS AND EACH SIDE OF CONTROL JOINTS. SPECIAL JAMB REINFORCING, WHERE REQUIRED, IS CALLED OUT ON

12. ELECTRICAL PANELS, CONDUITS, PIPES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE LOCATED SO AS NOT TO INTERFERE WITH REINFORCED AND/OR GROUTED CELLS. PIPES AND CONDUITS PASSING HORIZONTALLY THROUGH WALLS SHALL BE SLEEVED. MINIMUM SPACING OF SLEEVES SHALL BE THREE DIAMETERS.

13. GROUT SHALL BE MECHANICALLY CONSOLIDATED IN A MANNER TO FILL THE GROUT SPACE AND RECONSOLIDATED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.

14. PROVIDE GROUT AND MASONRY UNIT TESTING PRIOR TO AND DURING CONSTRUCTION IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.

15. REINFORCEMENT PLACEMENT, GROUT SPACES AND GROUTING OPERATION SHALL BE INSPECTED BY TESTING LABORATORY IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS. MORTAR FIN PROJECTION INTO THE GROUT SPACE SHALL NOT EXCEED 1/2 INCH.

EXPANSION BOLTS INSTALLED IN CONCRETE OR MASONRY SHALL BE HILTI KWIK BOLT TZ ANCHORS OR APPROVED EQUAL WITH EMBEDMENT NOTED ON THE DRAWINGS OR EMBEDMENT AS RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORTS ESR-4266.

2. SCREW ANCHORS SHALL BE KWIK HUS-EZ-SS316 CONCRETE ANCHORS BY HILTI, INC. OR APPROVED EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORT ESR-3027

3. ADHESIVE ANCHORS SHALL BE HILTI: -HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD OR HAS THREADED ROD, PER ICC ESR 3187 -HIT-HY SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS -E THREADED ROD PER ICC-3187 -HIT-RE 500 V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH THREADED ROD PER ESR-3814

4. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN STRENGTH.

1. FOR FIRE-RATING REQUIREMENTS AND METHODS, SEE ARCHITECTURAL DRAWINGS.

SPECIAL STRUCTURAL INSPECTIONS: 1. IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, SECTION 1704, AS NOTED BELOW. TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM, UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THE BASIS FOR WELDING INSPECTOR QUALIFICATION SHALL

2. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE 2018 NTERNATIONAL BUILDING CODE.

3. THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

4. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD FOR CONFORMANCE TO THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND. IF UNCORRECTED, TO THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.

5. THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

	STATEMENT OF SPECIAL INSPECTION		
IBC CODE	CONSTRUCTION TYPE	FREQU	JENCY
REFERENCE	CONSTRUCTION TYPE	CONT.	PER
1705.2	STEEL CONSTRUCTION		
1. INSPECTION OF WELD			Х
2. INSPECTION OF HIGH			X
1705.3	REINFORCED CONCRETE		
1. INSPECTION OF REINF PLACEMENT.	FORCING STEEL, INCLUDING PRESTRESSING TENDONS AND		X
3. INSPECTION OF ANCH	IORS CAST IN CONCRETE		Х
4. INSPECTION OF ANCH	IORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		Х
5. VERIFYING USE OF RE			X
6. PRIOR TO CONCRETE	PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, IR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE	Х	
7. INSPECTION OF CONC TECHNIQUES.	CRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION	Х	
8. VERIFY MAINTENANCE	E OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		Х
1705.4	MASONRY CONSTRUCTION		
	S OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR EINFORCEMENT, CONNECTORS AND ANCHORAGES AS		X
2. VERIFY GROUT SPACI	ING, GRADE AND SIZE OF REINFORCEMENT AND ANCHORS, RCING AND CONNECTIONS, PROPORTIONS OF SITE PREPARED		Х
3. VERIFY THE PLACEME			Х
1705.6	SOILS		
1. VERIFY MATERIALS BE ADEQUATE BEARING CAP	ELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE PACITY.		X
2. VERIFY EXCAVATIONS PROPER MATERIAL.	S ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED		Х
	ATION AND TESTING OF THE COMPACTED FILL MATERIALS.		Χ
PLACEMENT AND COMPA	ER MATERIALS, DENSITIES AND LIFT THICKNESS DURING ACTION OF COMPACTED FILL.	Х	
5. PRIOR TO PLACEMENT SITE HAS BEEN PREPARE	T OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT ED PROPERLY.		X

THE FOLLOWING ITEMS ARE DEFERRED SUBMITTAL ITEMS: - PRECAST CONCRETE

2. DEFERRED SUBMITTAL ITEMS SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT WITH CALCULATIONS, DRAWINGS, DETAILS, AND CUT SHEETS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.

SHOP DRAWING REVIEW: 1. J&S STRUCTURAL ENGINEERS, PA WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

2. THE FOLLOWING IS A LIST OF REQUIRED SHOP DRAWINGS AND RELATED SUBMITTALS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS:

- ANCHOR BOLT LAYOUT DRAWINGS - CONCRETE BLOCK COMPRESSION TESTS AND MATERIAL CERTIFICATIONS - CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS

- CONCRETE REINFORCING SHOP DRAWINGS AND REINFORCING MATERIAL CERTIFICATIONS MASONRY GROUT AND AND MORTAR MIX DESIGNS MASONRY REINFORCING SHOP DRAWINGS

- STRUCTURAL STEEL SHOP DRAWINGS, MATERIAL CERTIFICATIONS AND WELDER CERTIFICATIONS - STEEL JOIST SHOP DRAWINGS - STEEL DECK SHOP DRAWINGS

- PRECAST CONCRETE SHOP DRAWINGS

	MASC	DNRY	SPLICI	E LEN	GTH T	ABLE	
DAD 0175	6" BLOCK 8" BLOCK			10" E	BLOCK	12" BLOCK	
BAR SIZE	BAR @ CL	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGI
#4	1'-9"	1'-9"	3'-0"	1'-9"	2'-0"	1'-9"	1'-9"
#5	2'-8"	2'-2"	3'-9"	2'-2"	3'-3"	2'-2"	2'-3"
#6	-	3'-7"	4'-6"	3'-4"	4'-6"	3'-4"	4'-5"
#7	-	5'-0"	-	3'-10"	5'-3"	4'-2"	5'-3"

1. CONTRACTOR HAS THE OPTION TO EPOXY DOWELS AS AN ALTERNATE TO HOOKED OR

CAST-IN-PLACE DOWELS WHERE NOTED ON DETAILS.

2. SEE GENERAL STRUCTURAL NOTES FOR APPROVED EPOXY.

WHEN REQUIRED SPLICE LENGTH EXCEEDS 4'-0" USE HIGH LIFT GROUTING OR USE MECHANICAL TENSION SPLICES WITH LOW

								ı						
CO	NCRE	TE SE	PLICE L	FNG ⁻	ΓΗ ΤΔΕ	RI F				EPOXY	EMBEI	OMENT	TABL	E
					/ _			-		REINFOR	CING STEEL		THREADED I	ROD ANCHORS
FOOTING OR GRADE BEAM	PIER	WALL (VERTICAL)	WALL (HORIZONTAL)	SLAB	COLUMN	BEAM (BOTTOM)	BEAM (TOP)		DAD OIZE	MINIM	UM EMBEDMENT	DEPTH	ANCHOR	MINIMUM
		(VEITHORIE)	(11011120111112)			(50110111)	(101)		BAR SIZE	f'c=3,000 psi	f'c=3,500 psi	f'c=4,000 psi	DIAMETER	EMBEDMENT DEPTH
-	-	1'-8"	1'-8"	1'-8"	-	-	-		#3	3 1/2"	3"	2 3/4"	3/8"	5 1/4"
2'-3"	-	2'-3"	2'-3"	2'-3"	-	-	-				_			
2'-9"	2'-7"	2'-9"	2'-9"	2'-9"	2'-0"	2'-7"	3'-5"	-	#4	5"	4 3/4"	4 1/4"	1/2"	6 3/8"
								-	#5	6 1/4"	5 3/4"	5 1/4"	5/8"	7 1/2"
3'-4"	3'-1"	3'-4"	3'-4'	3'-4"	2'-5"	3'-1"	4'-1"	_	#6	7 1/2"	7"	6 1/2"	3/4"	10"
4'-10"	4'-6"	4'-10"	4'-10"	4'-10"	3'-6"	4'-6"	5'-11"		#7	9"	8 1/2"	7 3/4"	7/8"	11 1/4"
5'-6"	5'-2"	5'-6"	-	-	4'-0"	5'-2"	6'-9"						1"	
_	5'-10"	_	_	-	4'-6"	5'-10"	7'-7"	-	#8	10 1/2"	9 3/4"	9"	1"	12 1/2"
							8'-6"	-	#9	11 1/2"	10 3/4"	10"	1 1/4"	15"
-	6'-7"	-	-	-	5'-1"	6'-7"		_	#10	13 1/2"	13"	12"	1 1/4"	18"
_	7'-3"	_	_	_	5'-7"	7'-3"	9'-6"						l	

1. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE LARGER SPLICE LENGTH SHALL BE USED. 2. TOP BAR IS DEFINED AS ANY HORIZONTAL BAR THAT HAS MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. 3. TABLE SHALL ONLY BE USED WHEN: CONCRETE IS NORMAL WEIGHT

• REINFORCEMENT STEEL IS UNCOATED

• REINFORCEMENT STEEL MEETS ASTM A615, GRADE 60

- | 7'-3" | - | - | 5'-7" | 7'-3" | 9'-6"

Autodesk Docs://138191-LeesSummitJointOpsCtr/STr23 HW LS Police Renovation.rvt

3. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED

STRUCTURAL NOTES

2018 INTERNATIONAL BUILDING CODE

BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION. 4. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTIONS SHALL BE SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS.

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.

IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF

CONSTRUCTION. OR THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE

OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT

BRACING, SHORING FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE ARCHITECT-ENGINEER

THE NEW AND EXISTING STRUCTURE DURING CONSTRUCTION INCLUDING. BUT NOT LIMITED TO.

2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, NOT THE METHOD

ARCHITECT-ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS.

5. DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT ALL. 6. CONTRACTOR NOTE: PROVIDE 2 TONS OF MISCELLANEOUS STRUCTURAL STEEL SHAPES (LABOR FOR BOTH

LABOR FOR DETAILING AND ERECTION INCLUDED FOR FIELD USE AS DIRECTED BY THE ARCHITECT/ENGINEER. ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS. EXCEPT

WHERE NOTED TO THE CONTRARY ON DRAWINGS OR WHERE MORE STRINGENT REQUIREMENTS ARE ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL AISI-5100-16 STRUCTURAL MEMBERS AWS D1.1 STRUCTURAL WELDING CODE

ICC500-14 22020 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER

DEAD LOADS:

SNOW LOADS:
SNOW LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND ASCE 7 **INCLUDING DRIFTING SNOW LOADS CHAPTER 16** Ce = 1.0 Ct = 1.0

Pg = 20 PSF Pf = 16.8 PSF Pf(min)=16 psf

RÀIN ÓN SNOW LOAD=5 PSF DESIGN BALANCE SNOW LOAD = 24 PSF

WIND LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE. ULTIMATE DESIGN WIND SPEED = 122 MPH EXPOSURE = B

SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE.

SEISMIC USE GROUP IV SITE CLASS = B MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082 SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.14 SDI = 0.12 SEISMIC DESIGN CATEGORY C PRECAST CONCRETE WALLS.

STEEL DECK ROOF DIAPHRAGMS TRANSFERRING LATERAL LOADS TO PRECAST CONCRETE SHEAR WALLS & BRACED FRAME SUPPORTED BY SHALLOW CONCRETE FOUNDATIONS.

1. A GEOTECHNICAL REPORT HAS NOT BEEN COMPLETED. A GEOTECHNICAL ENGINEER SHALL VERIFY SOILS PRIOR 4. METAL DECK ATTACHMENTS SHALL BE INSPECTED BY TESTING LABORATORY. TO FOUNDATION PLACEMENT.

2. ALLOWABLE BEARING PRESSURE: 2000 PSF 3. FROST DEPTH = 3'-0"

Cs = 0.0569

4. SEE GEOTECHNICAL REPORT FOR ANY ADDITIONAL OVEREXCAVATION AND SUBGRADE PREPARATION

REQUIREMENTS. ALL RECOMMENDATION IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED UNO. 1. ALL BELOW-GRADE WALLS TO BE BACKFILLED WITH GRAVEL BACKFILL AS DESCRIBED IN GEOTECH REPORT.

2. PLACE BACKFILL AND COMPACT IN 8" LIFTS PER GEOTECH REPORT. 3. DESIGN EQUIVALENT FLUID PRESSURES (GRAVEL BACKFILL)

CONCRETE: 1. CONCRETE MIX DESIGNS:

AT-REST: 56 psf/ft

MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.50MAX AGGREGATE SIZE = 3/4" SLUMP = 4" ±1" AIR CONTENT = $6\% \pm 1.5\%$ (ASTM C 260)

MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.50MAX AGGREGATE SIZE = 3/4" $SLUMP = 4" \pm 1"$ AIR CONTENT = $6\% \pm 1.5\%$ (ASTM C 260)

SLAB ON GRADE: MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.45 MAX AGGREGATE SIZE = 3/4" MAX SLUMP = 4" AIR CONTENT = 1.5% (ASTM C 260)

EXTERIOR CONCRETE: MIN 28 DAY COMPRESSIVE STRENGTH = 4,500 PSI W/C RATIO = 0.40 MAX AGGREGATE SIZE = 3/4" $SLUMP = 4"\pm1"$

4. FLY ASH MAY BE INCLUDED IN FOUNDATION CONCRETE.

AIR CONTENT = $6\% \pm 1.5\%$ (ASTM C 260) 2. IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING THIS SHALL BE DONE UTILIZING AN APPROPRIATE APPROVED ADMIXTURE - NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S PERMISSION. ALL ADMIXTURES SHALL BE APPROVED IN

3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE OR EXCEEDS THE TOTAL ALLOWABLE MIXING TIME.

7. THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE ENGINEER OF RECORD

5. NO ALUMINUM SHALL BE PLACED IN CONCRETE 6. DURING HOT WEATHER (80 DEGREES F AND ABOVE, THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS ACI 305"HOT WEATHER CONCRETE." DURING COLD WEATHER (40 DEGREES F AND BELOW). THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI-306 "COLD WEATHER CONCRETING."

FOR REVIEW AND ACCEPTANCE. AFTER ACCEPTANCE OF THE MIX DESIGN BY THE ENGINEER OF RECORD, THE ACCEPTED DESIGNS MUST BE FORWARDED TO THE CITY INSPECTION DEPT. & THE SPECIAL INSPECTOR PRIOR TO CONCRETE BEING DELIVERED TO THE SITE.

1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. 2. CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, UNLESS OTHERWISE NOTED ON

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" OTHER: #6 BARS AND LARGER:

#5 BARS AND SMALLER: 1-1/2" 3. REINFORCING BAR SPLICES SHALL BE IN ACCORD WITH THE REQUIREMENTS OF ACI 318-14 AND THE REINFORCING SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS.

LIFT GROUTING

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.

- 2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, NOT THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE NEW AND EXISTING STRUCTURE DURING CONSTRUCTION INCLUDING. BUT NOT LIMITED TO. BRACING, SHORING FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE ARCHITECT-ENGINEER IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF CONSTRUCTION. OR THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT-ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS.
- 3. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION.
- 4. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTIONS SHALL BE SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS.
- 5. DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT ALL.
- 6. CONTRACTOR NOTE: PROVIDE 2 TONS OF MISCELLANEOUS STRUCTURAL STEEL SHAPES (LABOR FOR BOTH LABOR FOR DETAILING AND ERECTION INCLUDED FOR FIELD USE AS DIRECTED BY THE ARCHITECT/ENGINEER.
- ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS. EXCEPT WHERE NOTED TO THE CONTRARY ON DRAWINGS OR WHERE MORE STRINGENT REQUIREMENTS ARE
- ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL AISI-5100-16
- STRUCTURAL MEMBERS AWS D1.1 STRUCTURAL WELDING CODE ICC500-14 22020 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER

DEAD LOADS:

SNOW LOADS:
SNOW LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND ASCE 7 **INCLUDING DRIFTING SNOW LOADS CHAPTER 16**

Ce = 1.0 Ct = 1.0 Pg = 20 PSF Pf = 16.8 PSF

Pf(min)=16 psf RÀIN ÓN SNOW LOAD=5 PSF DESIGN BALANCE SNOW LOAD = 24 PSF

WIND LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE. ULTIMATE DESIGN WIND SPEED = 122 MPH EXPOSURE = B

SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE. SEISMIC USE GROUP IV

SITE CLASS = B MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082 SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.14 SDI = 0.12 SEISMIC DESIGN CATEGORY C PRECAST CONCRETE WALLS. Cs = 0.0569

STEEL DECK ROOF DIAPHRAGMS TRANSFERRING LATERAL LOADS TO PRECAST CONCRETE SHEAR WALLS & BRACED FRAME SUPPORTED BY SHALLOW CONCRETE FOUNDATIONS.

1. A GEOTECHNICAL REPORT HAS NOT BEEN COMPLETED. A GEOTECHNICAL ENGINEER SHALL VERIFY SOILS PRIOR 4. METAL DECK ATTACHMENTS SHALL BE INSPECTED BY TESTING LABORATORY. TO FOUNDATION PLACEMENT.

2. ALLOWABLE BEARING PRESSURE: 2000 PSF

3. FROST DEPTH = 3'-0"

4. SEE GEOTECHNICAL REPORT FOR ANY ADDITIONAL OVEREXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS. ALL RECOMMENDATION IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED UNO.

1. ALL BELOW-GRADE WALLS TO BE BACKFILLED WITH GRAVEL BACKFILL AS DESCRIBED IN GEOTECH REPORT.

2. PLACE BACKFILL AND COMPACT IN 8" LIFTS PER GEOTECH REPORT. 3. DESIGN EQUIVALENT FLUID PRESSURES (GRAVEL BACKFILL)

AT-REST: 56 psf/ft

1. CONCRETE MIX DESIGNS

MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.50MAX AGGREGATE SIZE = 3/4" SLUMP = 4" ±1" AIR CONTENT = $6\% \pm 1.5\%$ (ASTM C 260)

MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.50MAX AGGREGATE SIZE = 3/4" $SLUMP = 4" \pm 1"$ AIR CONTENT = $6\% \pm 1.5\%$ (ASTM C 260)

MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.45 MAX AGGREGATE SIZE = 3/4" MAX SLUMP = 4" AIR CONTENT = 1.5% (ASTM C 260)

AIR CONTENT = $6\% \pm 1.5\%$ (ASTM C 260)

EXTERIOR CONCRETE: MIN 28 DAY COMPRESSIVE STRENGTH = 4,500 PSI W/C RATIO = 0.40 MAX AGGREGATE SIZE = 3/4" $SLUMP = 4"\pm1"$

2. IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING THIS SHALL BE DONE UTILIZING AN APPROPRIATE APPROVED ADMIXTURE - NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S PERMISSION. ALL ADMIXTURES SHALL BE APPROVED IN

3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE OR EXCEEDS

4. FLY ASH MAY BE INCLUDED IN FOUNDATION CONCRETE.

5. NO ALUMINUM SHALL BE PLACED IN CONCRETE

THE TOTAL ALLOWABLE MIXING TIME.

6. DURING HOT WEATHER (80 DEGREES F AND ABOVE, THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS ACI 305"HOT WEATHER CONCRETE." DURING COLD WEATHER (40 DEGREES F AND BELOW), THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI-306 "COLD WEATHER CONCRETING."

7. THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE. AFTER ACCEPTANCE OF THE MIX DESIGN BY THE ENGINEER OF RECORD. THE ACCEPTED DESIGNS MUST BE FORWARDED TO THE CITY INSPECTION DEPT. & THE SPECIAL INSPECTOR PRIOR TO CONCRETE BEING DELIVERED TO THE SITE.

1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

2. CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, UNLESS OTHERWISE NOTED ON

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" OTHER: #6 BARS AND LARGER:

#5 BARS AND SMALLER: 1-1/2"

3. REINFORCING BAR SPLICES SHALL BE IN ACCORD WITH THE REQUIREMENTS OF ACI 318-14 AND THE REINFORCING SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS.

. THE CONTRACTOR/SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL THE PRECAST MEMBERS AND CONNECTION BETWEEN THEM AND OTHER STRUCTURAL MEMBERS. SUBMIT DESIGN CALCULATIONS, SEALED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION, FOR REVIEW BY THE ARCHITECT/ENGINEER OF RECORD.

2. ALL PRECAST MEMBERS ARE TO BE DESIGNED IN ACCORDANCE WITH ACI 318-14, 2018 IBC AND OTHER APPLICABLE CODES, STANDARDS (SEE SPECS) AND DESIGNED CONNECTIONS.

3. PROVIDE BLOCKOUTS AND OPENINGS FOR MECHANICAL/ELECTRICAL EQUIPMENT. REFER TO MECHANICAL/ELECTRICAL DOCUMENTS.

4. SHOP DRAWINGS SHALL BE COMPLETE AND SHALL INCLUDE A LAYOUT PLAN, FABRICATION DETAILS, ESTIMATED CAMBER, CONNECTION AND ANCHORAGE DETAILS AND MEMBER IDENTIFICATION MARKS. IDENTIFICATION MARKS SHALL APPEAR ON MANUFACTURED UNITS TO FACILITATE CORRECT FIELD PLACEMENT.

5. REFER TO MECHNICAL/ELECTRICAL DRAWINGS FOR CONDUIT LOCATIONS EMBEDDED IN PRECAST MEMBERS

I. FABRICATOR SHALL BE AISC CERTIFIED IN LIEU OF THE PREVIOUS, FABRICATOR SHALL INCLUDE IN THEIR BID THE SERVICES OF A SPECIAL INSPECTOR TO PROVIDE INSPECTION/TESTING SERVICES FOR IN-SHOP WORK TO MEET THE REQUIREMENTS OF 2018 INTERNATIONAL BUILDING CODE SECTION 1704.

2. STRUCTURAL STEEL SHALL MEET ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL MEET ASTM A992.

3. STEEL TUBES SHALL MEET ASTM A500, GRADE B.

4. STEEL PIPE SHALL MEET ASTM A53, TYPE E OR S, GRADE B.

5. BOLTS SHALL BE 3/4" DIAMETER A325-N UNLESS OTHERWISE NOTED.

6. FIELD BOLTING INSTALLATION SHALL BE INSPECTED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND THE AISC LRFD MANUAL, SECOND EDITION. BOLTS SHALL BE INSTALLED SNUG TIGHT UNLESS NOTES OTHERWISE NOTED. ASTM A-325-SC SHALL BE FULLY TIGHTENED USING LOAD

7. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE AWS D1.1-98. ELECTRODES SHALL MATCH BASE METALS AS SPECIFIED IN 2018 INTERNATIONAL BUILDING CODE.

8. ALL FIELD WELDING SHALL BE VISUALLY INSPECTED BY THE TESTING LABORATORY.

9. HOT DIP GALVANIZE ALL STEEL MEMBERS EXPOSED TO EXTERIOR TO MEET ASTM 525 G60.

10. ALL STEEL BELOW GRADE SHALL BE ENCASED IN CONCRETE WHERE POSSIBLE; IF NOT POSSIBLE, STEEL SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTIC PAINT.

I. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE BUILDING CODE SECTION 1704.2. REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT. 2. DESIGNED, FABRICATED AND ERECTED IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE CHAPTER 22

AND THE STANDARD SPECIFICATIONS FOR STEEL JOIST, K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS,

PUBLISHED BY THE STEEL JOIST INSTITUTE. 3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORD WITH STEEL JOIST INSTITUTE RECOMMENDATIONS. USE 'X'-BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING. LOCATE BRIDGING TO AVOID MECHANICAL OPENINGS.

4. JOIST SEAT DEPTH SHALL BE 2-1/2" FOR 'K' SERIES AND 5" INCHES FOR 'LH' SERIES UNLESS NOTED

5. DESIGN EXTENDED ENDS FOR SAME DEAD LOADS AS JOIST AND A SNOW LOAD OF 40 PSF, AND OTHER LOADS AS INDICATED. LIMIT LIVE LOAD DEFLECTION TO L/240.

6. ADDITIONAL LOADS HAVE BEEN NOTED ON FRAMING PLANS. JOISTS SHALL BE DESIGNED TO SUPPORT THE ADDITIONAL LOADS. IT IS THE JOISTS SUPPLIERS RESPONSIBILITY TO DESIGN JOIST FOR ANY LOAD IN ADDITION TO THE DEAD AND LIVE LOADS LISTED ON THIS SHEET.

1. METAL ROOF DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWINGS(22 GA. MIN.), WITH NESTABLE SIDE

2. COMPOSITE FLOOR DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWING (22 GA MIN.), WITH NESTABLE SIDE LAPS AND GALVANIZED

3. FASTEN ROOF DECK IN ACCORD WITH METAL DECK ATTACHMENT TYPES NOTED ON THE PLANS AND FASTENING DETAILS. DECK ATTACHMENT SHALL BE IN ACCORD WITH VULCRAFT AND THE STEEL DECK INSTITUTE'S SECOND EDITION OF THE DIAPHRAGM DESIGN MANUAL OR APPROVED EQUAL.

1. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 1900 PSI ON THE NET AREA, PROVIDING A STRUCTURAL DESIGN COMPRESSIVE STRENGTH OF 1500 PSI PER THE 2018 INTERNATIONAL BUILDING CODE, TABLE 2105.2.2.1.2.

2. MORTAR SHALL BE TYPE S IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, TABLE NO. 2103.7(1) MORTAR PROPORTIONS FOR UNIT MASONRY, USING CEMENT LIME OR MORTAR CEMENT MIXES. (MASONRY CEMENT IS NOT ACCEPTABLE).

3. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF GROUT SHALL BE THE GREATER OF 2500 PSI OR THE COMPRESSIVE STRENGTH OF THE MASONRY UNITS. AIR ENTRAINMENT AND OTHER ADDITIVES ARE NOT ACCEPTABLE IN GROUT MIX. GROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES.

4. MASONRY REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

5. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD LADDER TYPE, GALVANIZED, AT 16-INCHES ON CENTER, UNLESS OTHERWISE NOTED ON PLAN.

6. MINIMUM BOND BEAM REINFORCING SHALL BE 2 - #4 IN 6" AND 8" BOND BEAMS AND 2 - #5 IN 12" BOND BEAMS. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS EXCEPT AS NOTED ON TYPICAL MASONRY WALL OPENING DETAIL.

7. SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE IN ACCORD WITH THE REINFORCING SPLICE LENGTH TABLE OR AS SHOWN ON THE DRAWINGS.

8. PROVIDE BOND BEAMS AT TOP OF ALL WALLS, AT ROOFS, STRUCTURAL FLOORS, OVER ALL OPENINGS IN WALLS AND WHERE SHOWN ON THE DRAWINGS.

9. REINFORCING SHALL BE HELD IN PLACE PRIOR TO GROUTING WITH WIRE POSITIONERS PLACED AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS NOR 10 FEET. PROVIDE POSITIONERS AT REINFORCING SPLICES.

10. VERTICAL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS. 8" CONC BLOCK 1-#5 @ 4'-0" OC

11. PROVIDE 1 #5 VERTICAL REINFORCING AT JAMB OPENINGS, ENDS AND CORNERS OF ALL WALLS AND EACH SIDE OF CONTROL JOINTS. SPECIAL JAMB REINFORCING, WHERE REQUIRED, IS CALLED OUT ON

12. ELECTRICAL PANELS, CONDUITS, PIPES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE LOCATED SO AS NOT TO INTERFERE WITH REINFORCED AND/OR GROUTED CELLS. PIPES AND CONDUITS PASSING HORIZONTALLY THROUGH WALLS SHALL BE SLEEVED. MINIMUM SPACING OF SLEEVES SHALL BE THREE DIAMETERS.

13. GROUT SHALL BE MECHANICALLY CONSOLIDATED IN A MANNER TO FILL THE GROUT SPACE AND RECONSOLIDATED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.

PROJECTION INTO THE GROUT SPACE SHALL NOT EXCEED 1/2 INCH.

14. PROVIDE GROUT AND MASONRY UNIT TESTING PRIOR TO AND DURING CONSTRUCTION IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE. 15. REINFORCEMENT PLACEMENT, GROUT SPACES AND GROUTING OPERATION SHALL BE INSPECTED BY TESTING

LABORATORY IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS. MORTAR FIN

EXPANSION BOLTS INSTALLED IN CONCRETE OR MASONRY SHALL BE HILTI KWIK BOLT TZ ANCHORS OR APPROVED EQUAL WITH EMBEDMENT NOTED ON THE DRAWINGS OR EMBEDMENT AS RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORTS ESR-4266.

2. SCREW ANCHORS SHALL BE KWIK HUS-EZ-SS316 CONCRETE ANCHORS BY HILTI, INC. OR APPROVED EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORT ESR-3027

3. ADHESIVE ANCHORS SHALL BE HILTI: -HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD OR HAS THREADED ROD, PER ICC ESR 3187 -HIT-HY SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS -E THREADED ROD PER ICC-3187 -HIT-RE 500 V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH THREADED ROD PER ESR-3814

4. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN STRENGTH.

1. FOR FIRE-RATING REQUIREMENTS AND METHODS, SEE ARCHITECTURAL DRAWINGS.

SPECIAL STRUCTURAL INSPECTIONS: 1. IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, SECTION 1704, AS NOTED BELOW. TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM, UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THE BASIS FOR WELDING INSPECTOR QUALIFICATION SHALL

2. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE 2018 NTERNATIONAL BUILDING CODE.

3. THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

4. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD FOR CONFORMANCE TO THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF UNCORRECTED, TO THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.

5. THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

IBC CODE	CONCEDITION TYPE	FREQ	JENC)
REFERENCE	CONSTRUCTION TYPE	CONT.	PER
1705.2	STEEL CONSTRUCTION		
1. INSPECTION OF WEL	LDING		Х
2. INSPECTION OF HIG	H STRENGTH BOLTING		X
1705.3	REINFORCED CONCRETE		
1. INSPECTION OF REII PLACEMENT.	NFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND		Х
3. INSPECTION OF AND	CHORS CAST IN CONCRETE		Х
4. INSPECTION OF AND	CHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		Х
5. VERIFYING USE OF F	REQUIRED MIX DESIGN		Х
	E PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE	Х	
7. INSPECTION OF CONTECHNIQUES.	NCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION	Х	
8. VERIFY MAINTENANG	CE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		Х
1705.4	MASONRY CONSTRUCTION		
	NS OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR REINFORCEMENT, CONNECTORS AND ANCHORAGES AS IS.		X
2. VERIFY GROUT SPACE	CING, GRADE AND SIZE OF REINFORCEMENT AND ANCHORS, ORCING AND CONNECTIONS, PROPORTIONS OF SITE PREPARED		X
3. VERIFY THE PLACEM			Х
1705.6	SOILS		
ADEQUATE BEARING CA			X
2. VERIFY EXCAVATION	NS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED		X
PROPER MATERIAL.			Х
PROPER MATERIAL. 3. PERFORM CLASSIFIC	CATION AND TESTING OF THE COMPACTED FILL MATERIALS.		
PROPER MATERIAL. 3. PERFORM CLASSIFIC 4. VERIFY USE OF PROPLACEMENT AND COMP	CATION AND TESTING OF THE COMPACTED FILL MATERIALS. PER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PACTION OF COMPACTED FILL. NT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT	Х	

THE FOLLOWING ITEMS ARE DEFERRED SUBMITTAL ITEMS: - PRECAST CONCRETE

2. DEFERRED SUBMITTAL ITEMS SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT WITH CALCULATIONS, DRAWINGS, DETAILS, AND CUT SHEETS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.

1. J&S STRUCTURAL ENGINEERS, PA WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

2. THE FOLLOWING IS A LIST OF REQUIRED SHOP DRAWINGS AND RELATED SUBMITTALS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS: - ANCHOR BOLT LAYOUT DRAWINGS

CONCRETE SPLICE LENGTH TABLE

1'-8"

2'-3"

2'-9"

3'-4'

4'-10"

2. TOP BAR IS DEFINED AS ANY HORIZONTAL BAR THAT HAS MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.

2'-3"

2'-9"

3'-4"

(VERTICAL) (HORIZONTAL)

1'-8"

2'-3"

2'-9"

3'-4"

4'-10"

5'-6"

1. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE LARGER SPLICE LENGTH SHALL BE USED.

COLUMN

2'-0"

2'-5"

3'-6"

4'-0"

4'-6"

5'-1"

5'-7"

2'-7"

3'-1"

4'-6"

5'-2" 5'-10"

7'-3"

(TOP)

_

3'-5"

4'-1"

5'-11"

6'-9"

7'-7"

8'-6"

9'-6"

- CONCRETE BLOCK COMPRESSION TESTS AND MATERIAL CERTIFICATIONS - CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS - CONCRETE REINFORCING SHOP DRAWINGS AND REINFORCING MATERIAL CERTIFICATIONS MASONRY GROUT AND AND MORTAR MIX DESIGNS MASONRY REINFORCING SHOP DRAWINGS

- STRUCTURAL STEEL SHOP DRAWINGS, MATERIAL CERTIFICATIONS AND WELDER CERTIFICATIONS

- STEEL JOIST SHOP DRAWINGS - STEEL DECK SHOP DRAWINGS - PRECAST CONCRETE SHOP DRAWINGS

PIER

2'-7"

3'-1"

4'-6"

5'-2"

5'-10"

7'-3"

• REINFORCEMENT STEEL MEETS ASTM A615, GRADE 60

GRADE BEAM

2'-3"

2'-9"

3'-4"

4'-10"

5'-6"

3. TABLE SHALL ONLY BE USED WHEN: • CONCRETE IS NORMAL WEIGHT

• REINFORCEMENT STEEL IS UNCOATED

	MASC	DNRY	SPLICI	E LEN	GTH T	ABLE	
DAD 0175	6" BLOCK	8" B	LOCK	OCK 10" BLOCK			BLOCK
BAR SIZE	BAR @ CL	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDG
#4	1'-9"	1'-9"	3'-0"	1'-9"	2'-0"	1'-9"	1'-9"
#5	2'-8"	2'-2"	3'-9"	2'-2"	3'-3"	2'-2"	2'-3"
#6	-	3'-7"	4'-6"	3'-4"	4'-6"	3'-4"	4'-5"
#7	_	5'-0"	-	3'-10"	5'-3"	4'-2"	5'-3"

WHEN REQUIRED SPLICE LENGTH EXCEEDS 4'-0" USE HIGH LIFT GROUTING OR USE MECHANICAL TENSION SPLICES WITH LOW

	EPOXY	EMBEI	DMENT	TABL	E
	REINFOR	CING STEEL		THREADED I	ROD ANCHORS
DAD 0175	MINIM	UM EMBEDMENT	DEPTH	ANCHOR	MINIMUM
BAR SIZE	f'c=3,000 psi	f'c=3,500 psi	f'c=4,000 psi	DIAMETER	EMBEDMENT DEPTH
#3	3 1/2"	3"	2 3/4"	3/8"	5 1/4"
#4	5"	4 3/4"	4 1/4"	1/2"	6 3/8"
#5	6 1/4"	5 3/4"	5 1/4"	5/8"	7 1/2"
#6	7 1/2"	7"	6 1/2"	3/4"	10"
#7	9"	8 1/2"	7 3/4"	7/8"	11 1/4"
#8	10 1/2"	9 3/4"	9"	1"	12 1/2"
#9	11 1/2"	10 3/4"	10"	1 1/4"	15"
#10	13 1/2"	13"	12"	1 1/4"	18"

1. CONTRACTOR HAS THE OPTION TO EPOXY DOWELS AS AN ALTERNATE TO HOOKED OR CAST-IN-PLACE DOWELS WHERE NOTED ON DETAILS. 2. SEE GENERAL STRUCTURAL NOTES FOR APPROVED EPOXY.

BOTTOM OF LINTEL BOMD **BOTTOM OF METAL DECK** BOTTOM OF PIER CAST IN PLACE CENTERLINE CLR CONCRETE MASONRY UNIT COL COMP CONC COMPRESSIBLE CONCRETE CONT CONTINUOUS CONTROL JOINT DIM **DIMENSION** FACH FACE **ELEV ELEVATION EMBED** EMBEDMENT EOS **EDGE OF SLAB EACH WAY** EXP **EXPANSION** FINISH FLOOR FOUNDATION FOOTING GALV GALVANIZED GRADE BEAM HEADED STUD **HOLLOW STRUCTURAL SECTION** HORIZ HORIZONTAL ISOLATION JOINT INFORMATION INSUL INSULATION JOIST BEARING KIP = 1,000 POUNDS LONGITUDINAL LOAD AND RESISTANCE FACTORED DESIG LONG LEG HORIZONTAL LONG LEG VERTICAL LLV MAT'L MATERIAL MAX MBM METAL BUILDING MANUFACTURER MINIMUM ON CENTER POUNDS PER SQUARE FOOT REFERENCE REINF REQ'D SCHED SPA SQ STD REINFORCEMENT REQUIRED SCHEDULE SQUARE STANDARD STL **TOP AND BOTTOM TONGUE-AND-GROOVE** TO TOP OF TOBM TOP OF BEAM TOF TOP OF FOOTING TOGB TOP OF GRADE BEAM TOP OF LINTEL TOM TOP OF MASONRY TOP TOP OF PIER TOP OF STEEL TOTB TOW TOP OF TIE BEAM TOP OF WALL TRANS TRANSVERSE TYPICAL **UNLESS NOTED OTHERWISE** VERTICAL WWR WELDED WIRE REINFORCEMENT SYMBOLS KEY: GRADE BEAM TAG GRADE BEAM TYPE **PLAN NOTE TAG** # REFERENCES A PLAN NOTE ON A GIVEN PLAN SHEET BEAM SPLICE MASONRY LINTEL _ _ _ <u>M</u>L-X_ _ _ _ ¬

ABBREVIATIONS:

BOTT OF BOTTOM OF

ARCHITECT

BASEPLATE

BETWEEN

воттом

ARCH

BOTT

ALLOWABLE STRESS DESIGN

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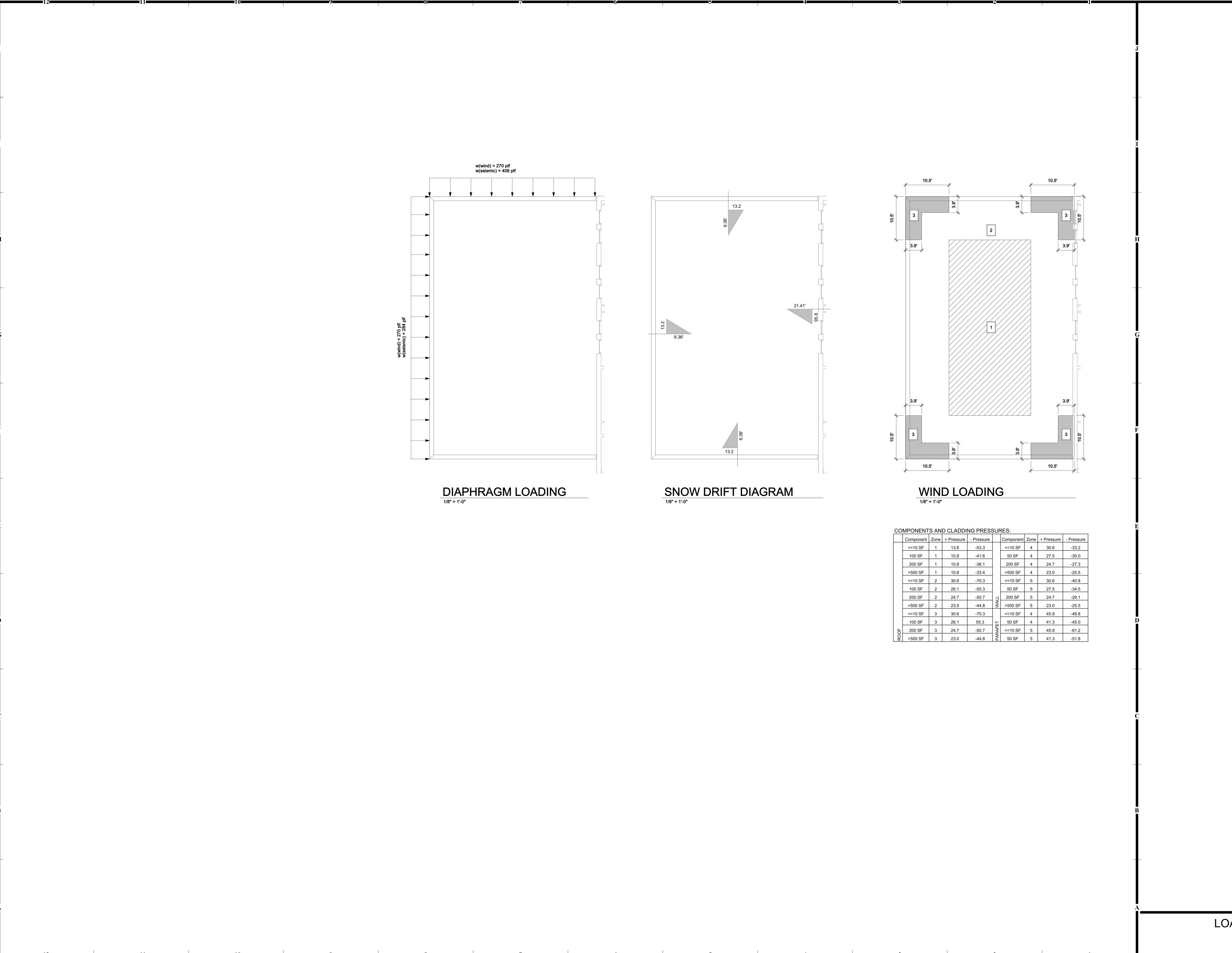
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GENERAL STRUCTURAL NOTES



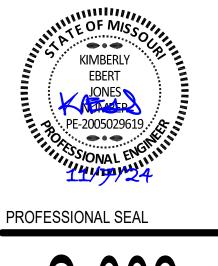
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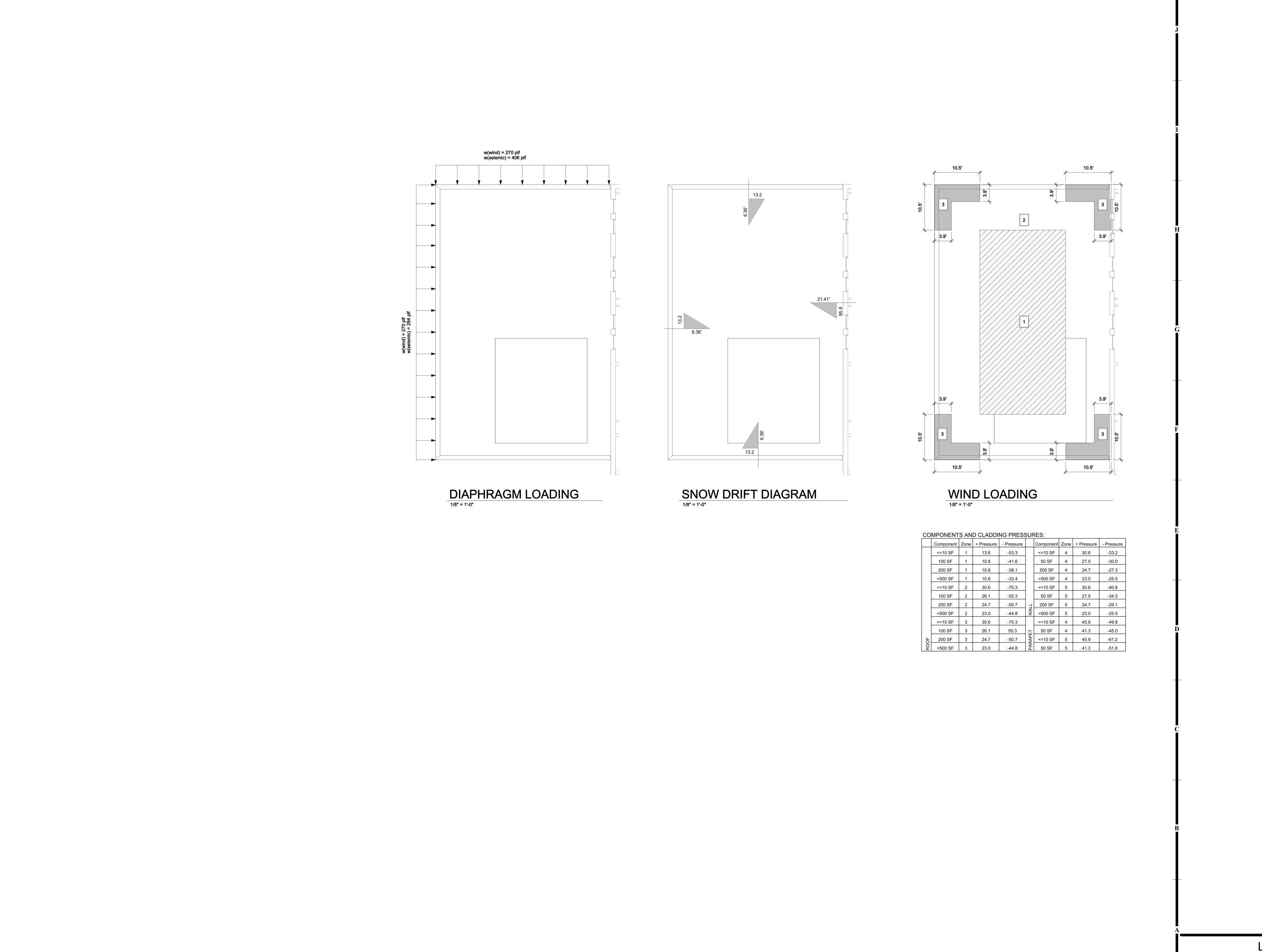


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FOUNDATION NOTES:

ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM **ELEVATION WITH THE LATEST CIVIL DRWAINGS**

PRIOR TO CONSTRUCTION. COORDINATE TOP OF FOOTING ELEVATIONS WITH LATEST CIVIL DRAWINGS PRIOR TO **CONSTRUCTION TO MAINTAIN 3'-0" MINIMUM** FROST DEPTH. TOP OF FOOTING ELEVATION =

99'-4" UNLESS OTHERWISE SHOWN THUS. SEE ARCHITECTURAL DRAWINGS FOR **BUILDING DIMENSIONS AND WALL OPENINGS** AND LOCATION OF THICKENED, SLOPED,

RAISED, OR DEPRESSED SLABS.

PROVIDE ISOLATION JOINTS AND SAW CUT CONTROL JOINTS IN SLAB ON GRADE AS SHOWN IN DETAIL 13 ON SHEET S0.10 AND 15'-0" OC MAX. CONTROL JOINTS HAVE BEEN SHOWN. LOCATE CONSTRUCTRION JOINTS AT NOTED CONTROL JOINT LOCATIONS AS REQUIRED.

ABBV: BPL - BASE PLATE

FRAMING NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE

ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRAWINGS PRIOR TO CONSTRUCTION.

2. JB INDICATES JOIST BEARING ELEVATION.

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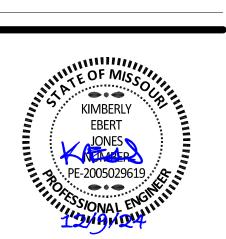
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FOUNDATION NOTES:

ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM **ELEVATION WITH THE LATEST CIVIL DRWAINGS**

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PROVIDE ISOLATION JOINTS AND SAW CUT CONTROL JOINTS IN SLAB ON GRADE AS SHOWN IN DETAIL 13 ON SHEET S0.10 AND 15'-0" OC MAX. CONTROL JOINTS HAVE BEEN SHOWN. LOCATE CONSTRUCTRION JOINTS AT NOTED CONTROL JOINT LOCATIONS AS REQUIRED.

ABBV: BPL - BASE PLATE

FRAMING NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE

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2. JB INDICATES JOIST BEARING ELEVATION.

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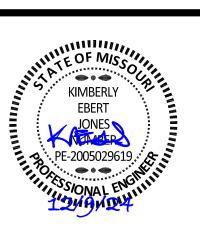
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MASONRY AND PRECAST FRAMING **DETAILS**

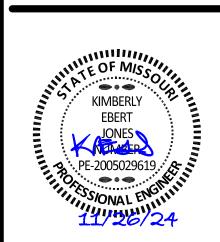
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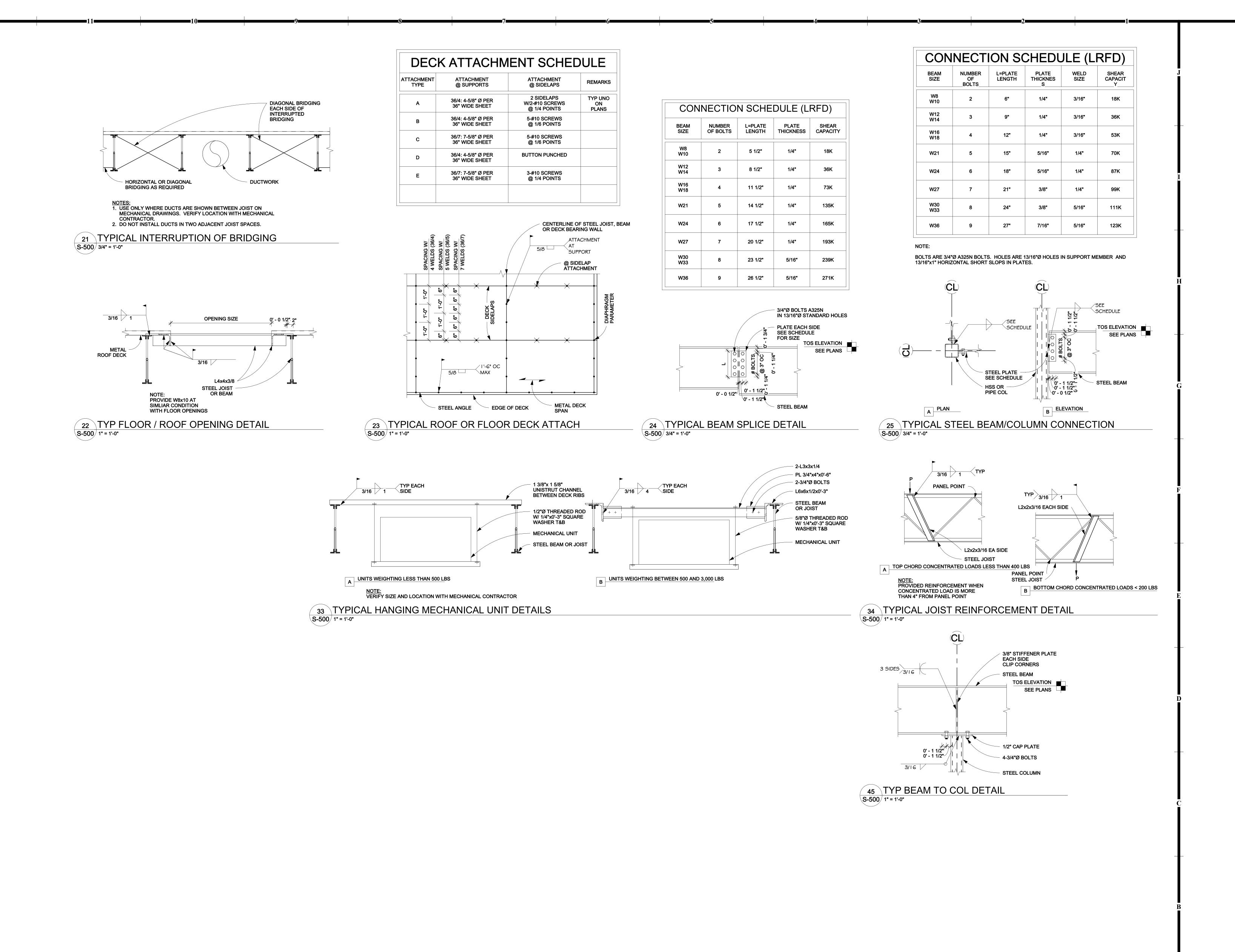
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MASONRY AND PRECAST FRAMING **DETAILS**



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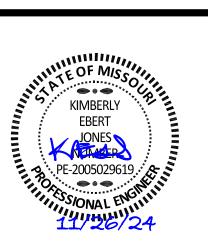
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STEEL FRAMING DETAILS

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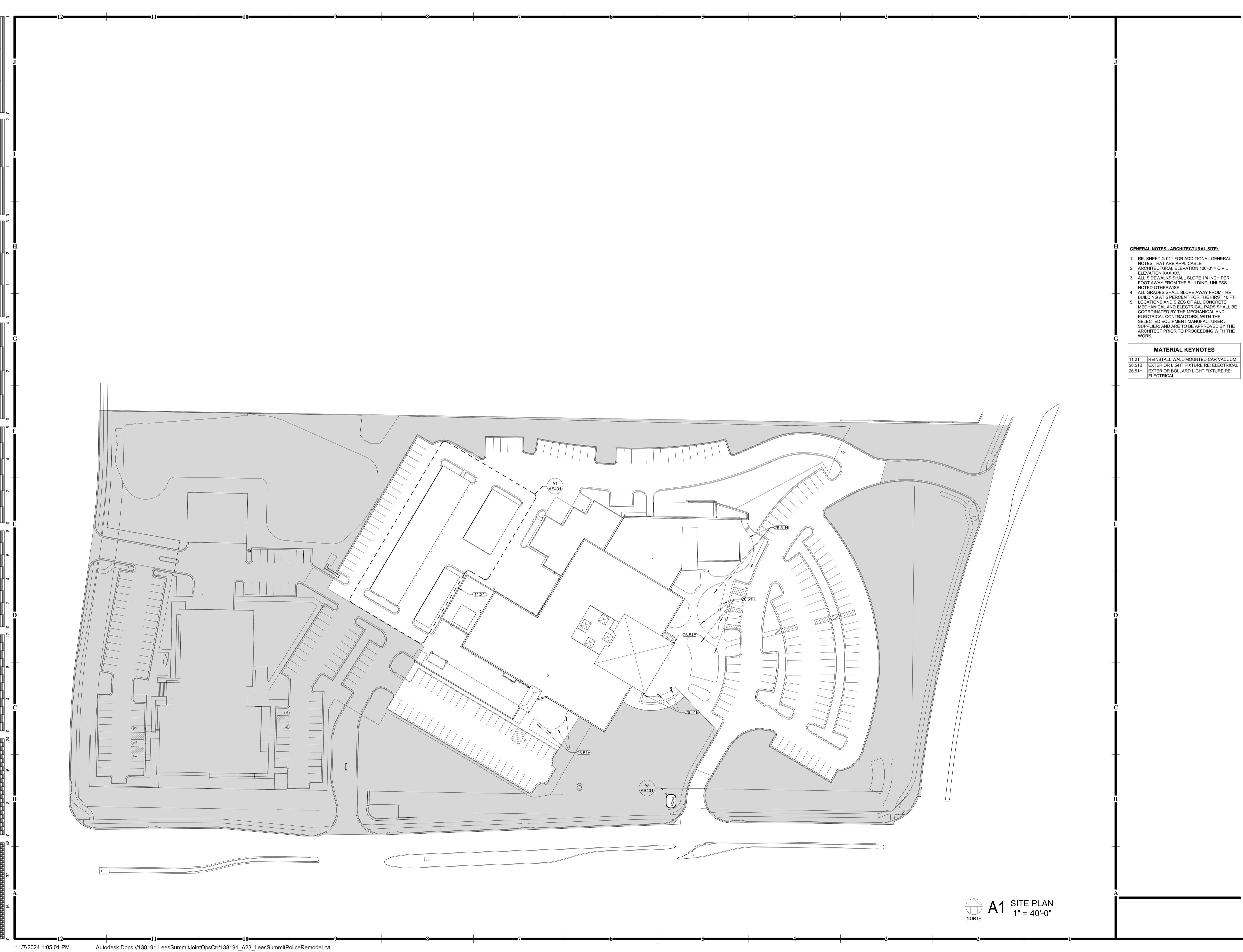
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STEEL FRAMING DETAILS



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GENERAL NOTES - ARCHITECTURAL SITE:

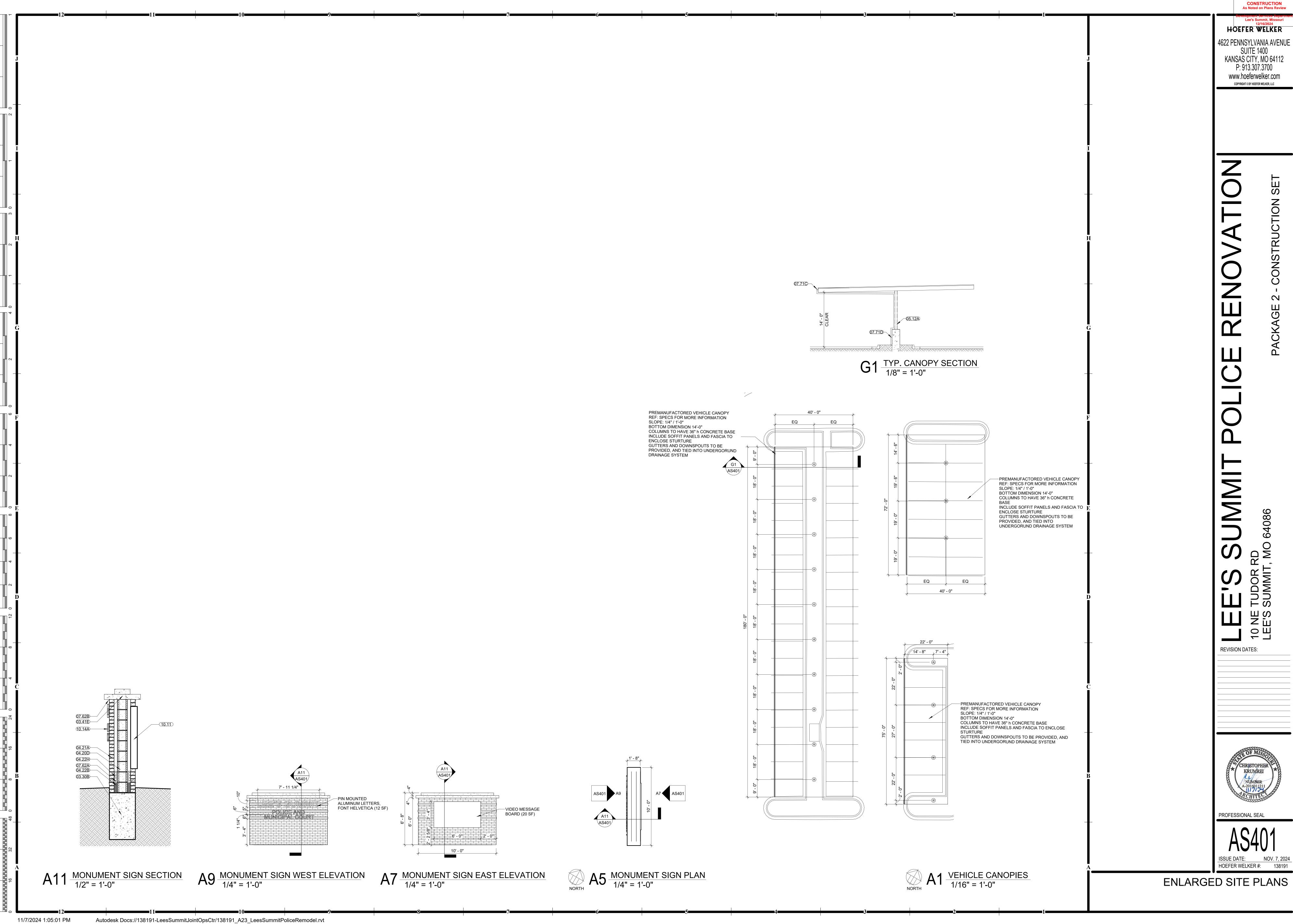
- RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
- 4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
- 5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER /

MATERIAL KEYNOTES

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SITE PLAN



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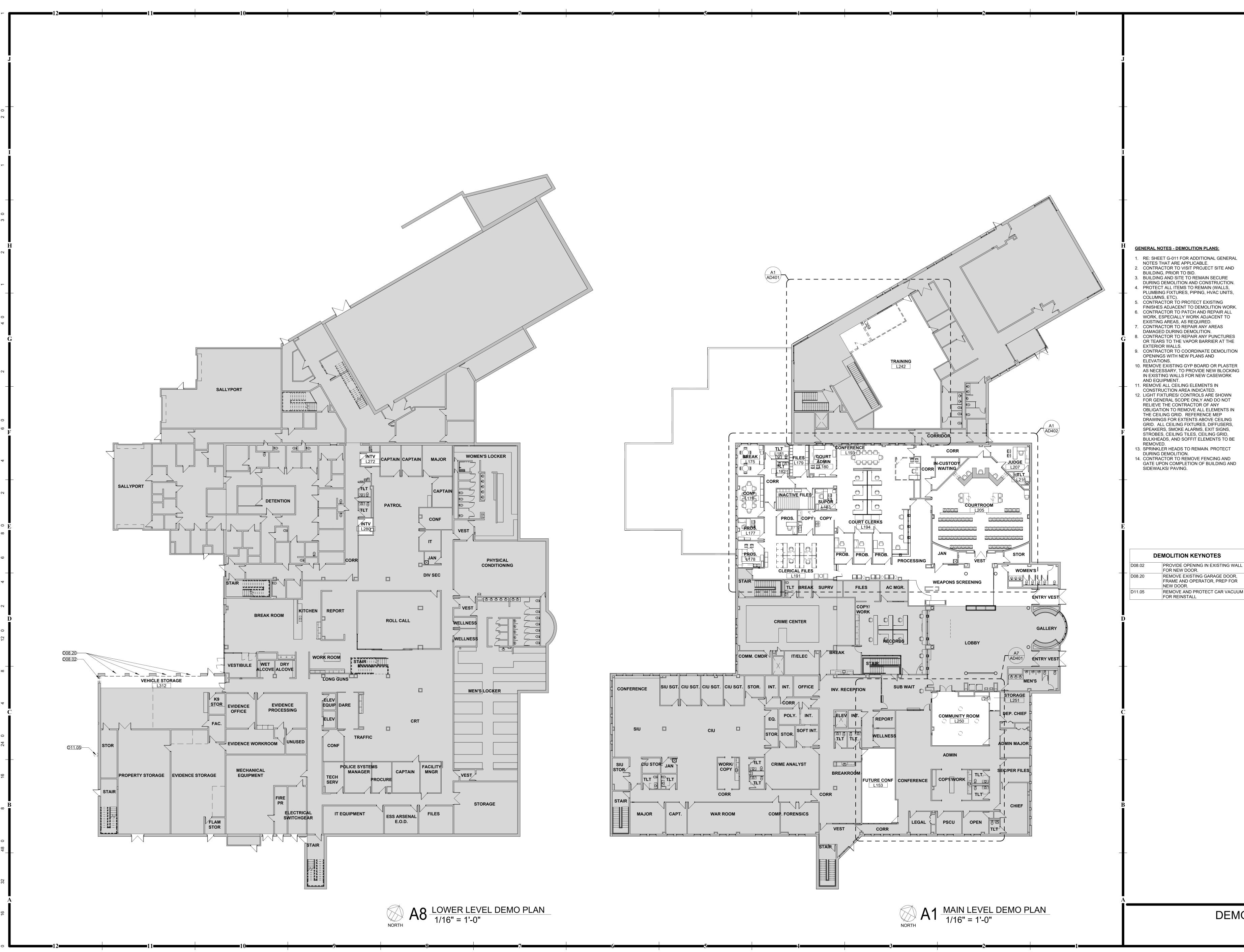
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ENLARGED SITE PLANS



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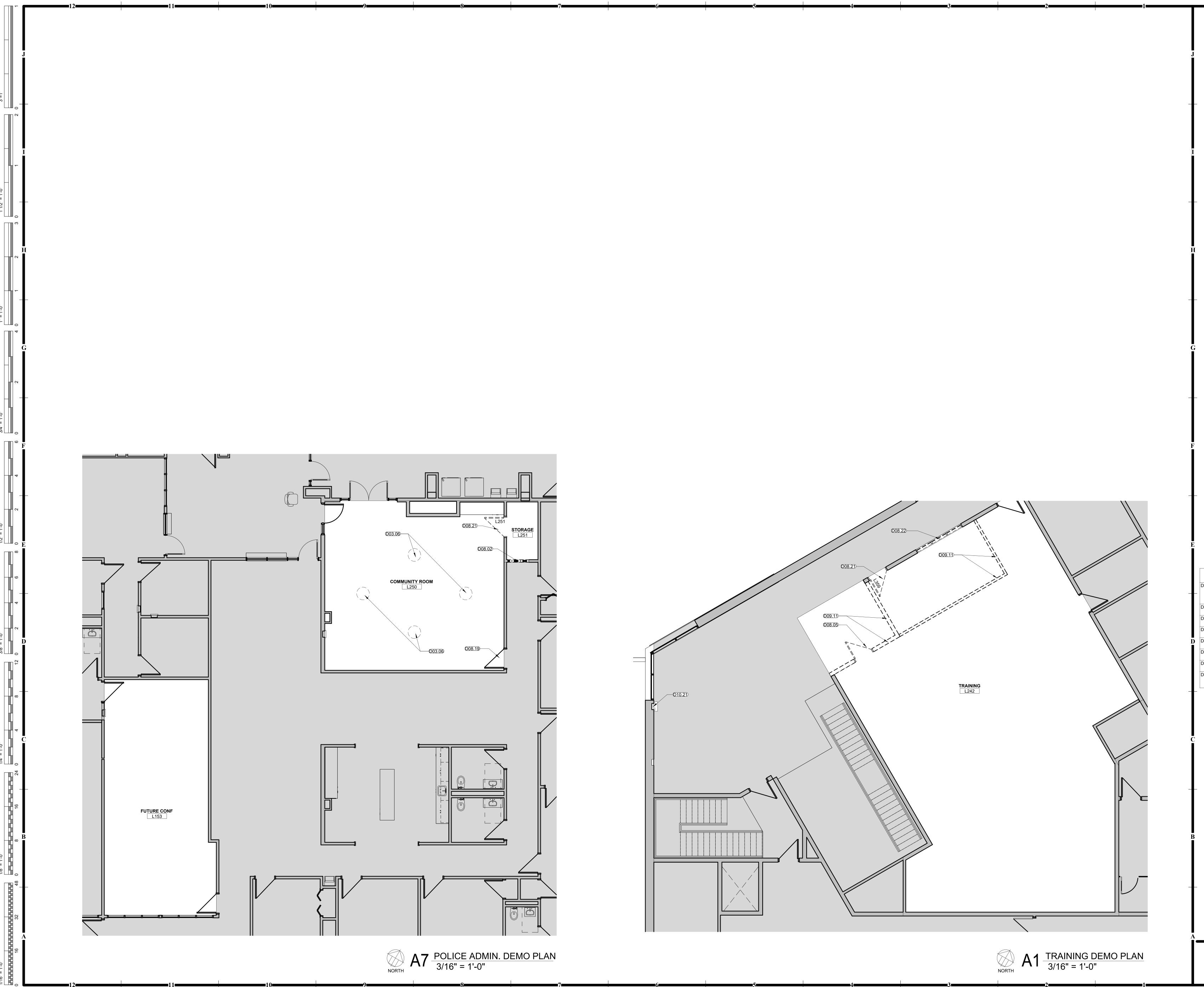
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DEMO FLOOR PLANS



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GENERAL NOTES - DEMOLITION PLANS:

- RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
 CONTRACTOR TO VISIT PROJECT SITE AND
- BUILDING, PRIOR TO BID.

 3. BUILDING AND SITE TO REMAIN SECURE
- DURING DEMOLITION AND CONSTRUCTION.

 4. PROTECT ALL ITEMS TO REMAIN (WALLS, DILIMBING EXTERNS DIDING ANACHMITS)
- PLUMBING FIXTURES, PIPING, HVAC UNITS, COLUMNS, ETC).
 5. CONTRACTOR TO PROTECT EXISTING
- FINISHES ADJACENT TO DEMOLITION WORK.

 6. CONTRACTOR TO PATCH AND REPAIR ALL
- WORK, ESPECIALLY WORK ADJACENT TO EXISTING AREAS, AS REQUIRED.
- 7. CONTRACTOR TO REPAIR ANY AREAS DAMAGED DURING DEMOLITION.8. CONTRACTOR TO REPAIR ANY PUNCTURES
- OR TEARS TO THE VAPOR BARRIER AT THE EXTERIOR WALLS.
- 9. CONTRACTOR TO COORDINATE DEMOLITION OPENINGS WITH NEW PLANS AND ELEVATIONS.
- 10. REMOVE EXISTING GYP BOARD OR PLASTER
 AS NECESSARY, TO PROVIDE NEW BLOCKING
 IN EXISTING WALLS FOR NEW CASEWORK
 AND EQUIPMENT.
- 11. REMOVE ALL CEILING ELEMENTS IN CONSTRUCTION AREA INDICATED.
 12. LIGHT FIXTURES/ CONTROLS ARE SHOWN FOR GENERAL SCOPE ONLY AND DO NOT RELIEVE THE CONTRACTOR OF ANY OBLIGATION TO REMOVE ALL ELEMENTS IN THE CEILING GRID. REFERENCE MEP DRAWINGS FOR EXTENTS ABOVE CEILING GRID. ALL CEILING FIXTURES, DIFFUSERS,
- DRAWINGS FOR EXTENTS ABOVE CEILING
 GRID. ALL CEILING FIXTURES, DIFFUSERS,
 SPEAKERS, SMOKE ALARMS, EXIT SIGNS,
 STROBES, CEILING TILES, CEILING GRID,
 BULKHEADS, AND SOFFIT ELEMENTS TO BE
 REMOVED.
- 13. SPRINKLER HEADS TO REMAIN. PROTECT DURING DEMOLITION.14. CONTRACTOR TO REMOVE FENCING AND GATE UPON COMPLETION OF BUILDING AND SIDEWALKS/ PAVING.

DEMOLITION KEYNOTES

D03.06

CORE DRILL FLOOR AS NECESSARY
FOR NEW ELECTRICAL FLOOR BOXES
AND PATCH FLOOR PER
SPECIFICATION.

D08.02

PROVIDE OPENING IN EXISTING WALL
FOR NEW DOOR.

D08.05

REMOVE EXISTING DOOR, FRAME AND
HARDWARE.

D08.19

REMOVE DOOR HARDWARE AND PREP
FOR NEW HARDWARE

D D08.21

REMOVE AND PROTECT DOOR, FRAME
AND HARDWARE FOR REUSE

D08.22

REMOVE AND PROTECT WINDOW,
RETURN TO OWNER.

REMOVE WALL PARTITION AS INDICATED.

REMOVE FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET FOR RELOCATION, PATCH WALL.

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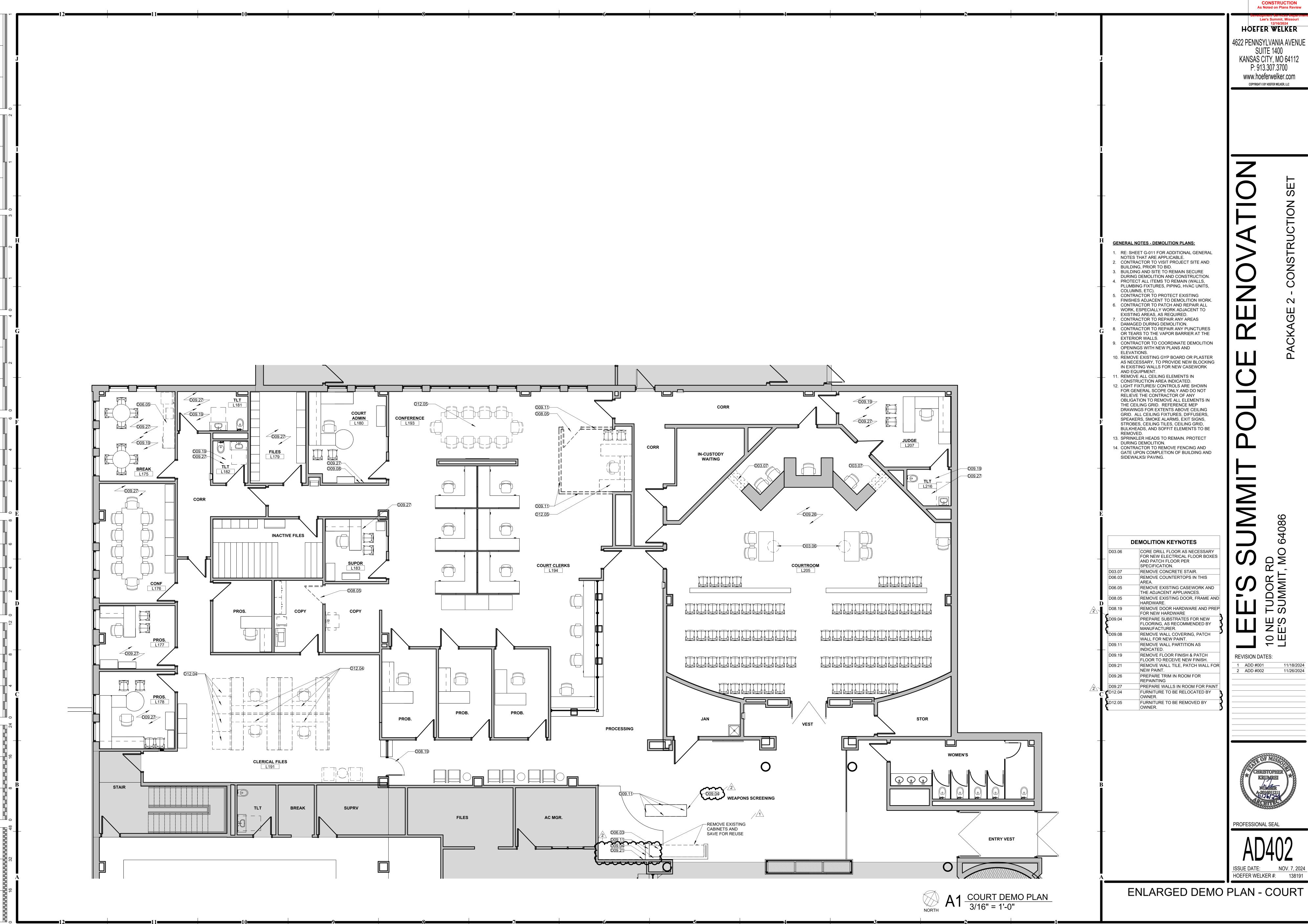
NON DATES.



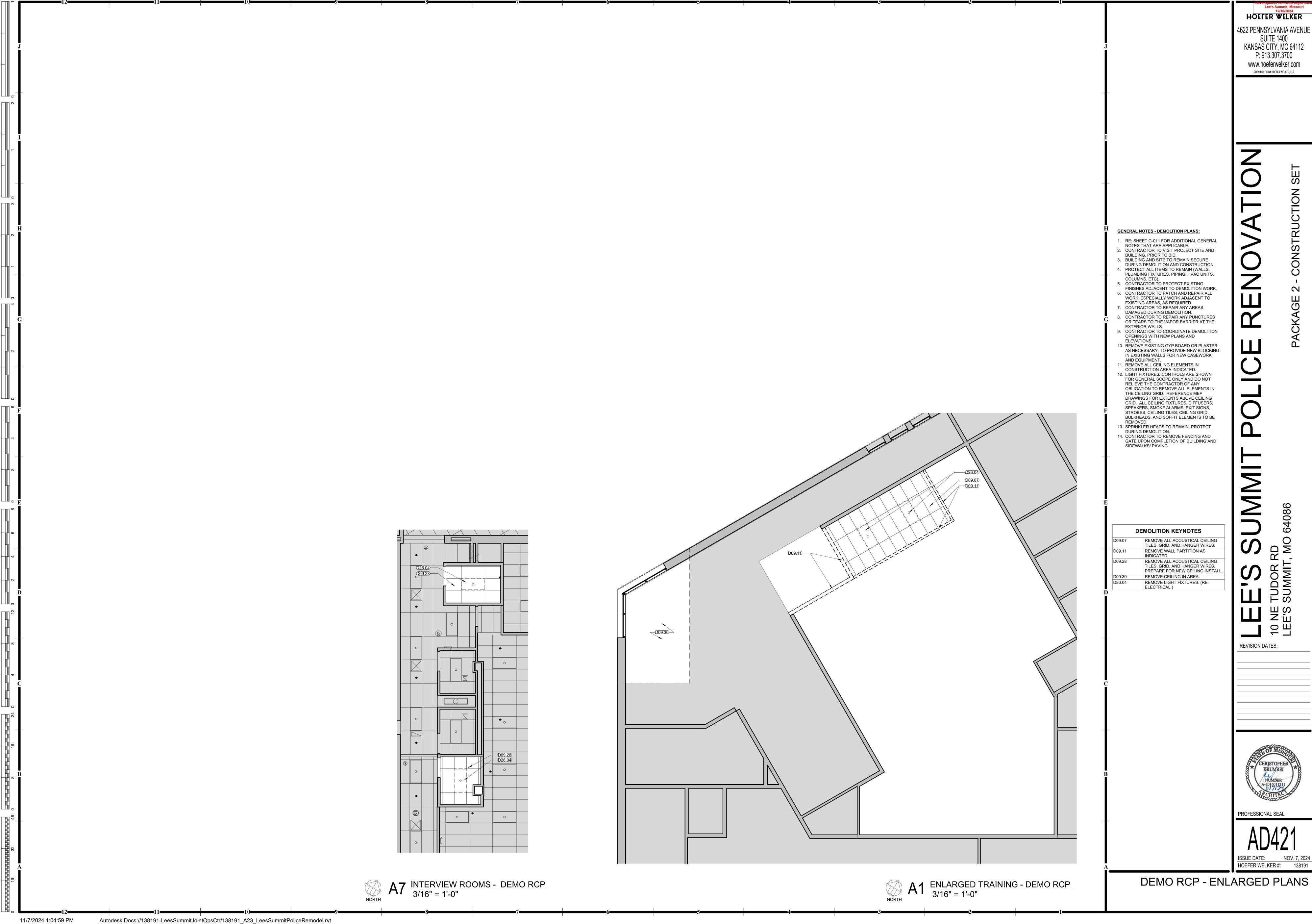
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ENLARGED DEMO PLANS



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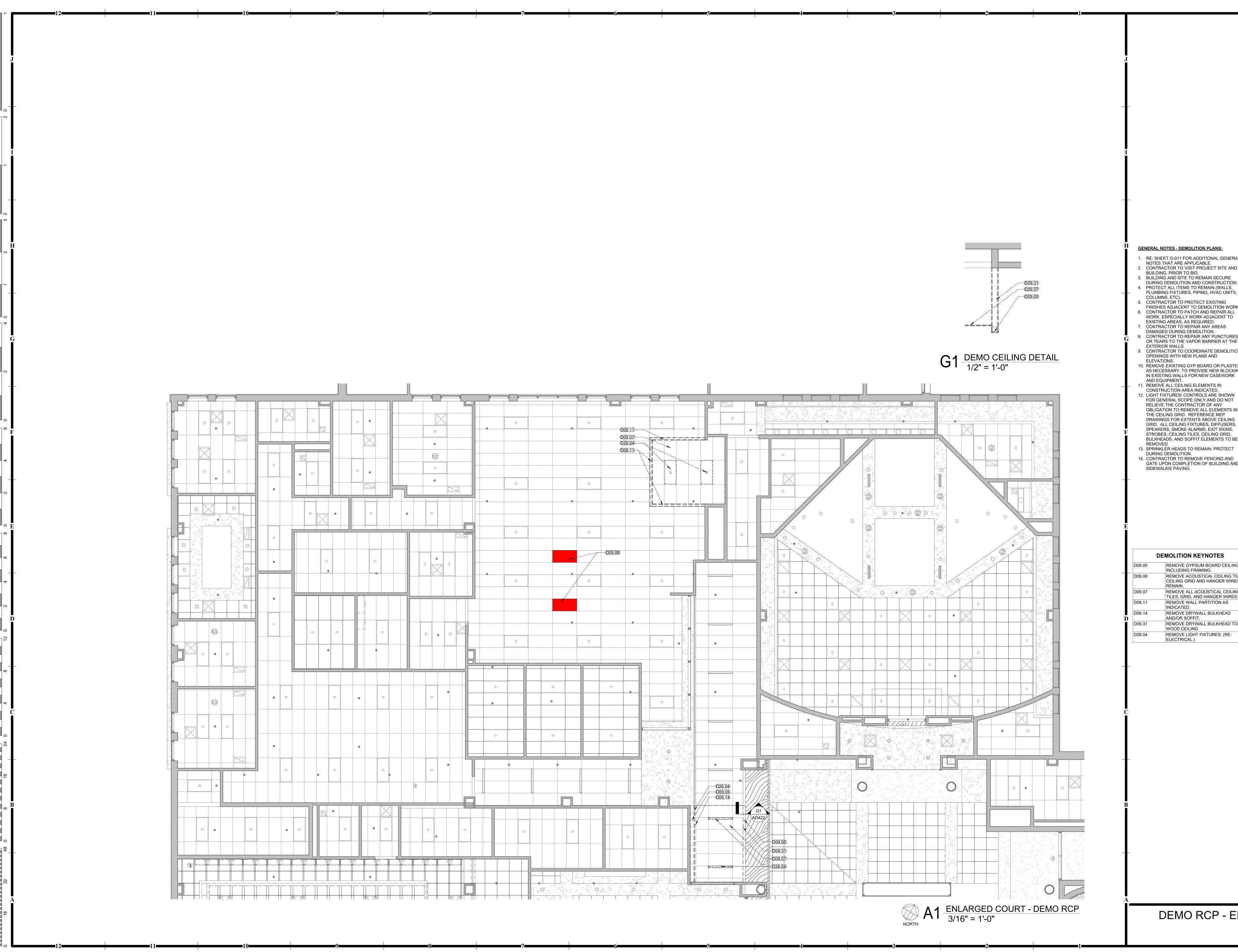
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DEMO RCP - ENLARGED PLANS



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1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.

2. CONTRACTOR TO VISIT PROJECT SITE AND

BUILDING, PRIOR TO BID. 3. BUILDING AND SITE TO REMAIN SECURE

DURING DEMOLITION AND CONSTRUCTION. 4. PROTECT ALL ITEMS TO REMAIN (WALLS, PLUMBING FIXTURES, PIPING, HVAC UNITS, COLUMNS, ETC).

5. CONTRACTOR TO PROTECT EXISTING FINISHES ADJACENT TO DEMOLITION WORK. 6. CONTRACTOR TO PATCH AND REPAIR ALL WORK, ESPECIALLY WORK ADJACENT TO EXISTING AREAS, AS REQUIRED.

7. CONTRACTOR TO REPAIR ANY AREAS DAMAGED DURING DEMOLITION. 8. CONTRACTOR TO REPAIR ANY PUNCTURES OR TEARS TO THE VAPOR BARRIER AT THE

EXTERIOR WALLS. 9. CONTRACTOR TO COORDINATE DEMOLITION OPENINGS WITH NEW PLANS AND 10. REMOVE EXISTING GYP BOARD OR PLASTER AS NECESSARY, TO PROVIDE NEW BLOCKING

11. REMOVE ALL CEILING ELEMENTS IN CONSTRUCTION AREA INDICATED. 12. LIGHT FIXTURES/ CONTROLS ARE SHOWN FOR GENERAL SCOPE ONLY AND DO NOT RELIEVE THE CONTRACTOR OF ANY OBLIGATION TO REMOVE ALL ELEMENTS IN THE CEILING GRID. REFERENCE MEP DRAWINGS FOR EXTENTS ABOVE CEILING GRID. ALL CEILING FIXTURES, DIFFUSERS, SPEAKERS, SMOKE ALARMS, EXIT SIGNS, STROBES, CEILING TILES, CEILING GRID, BULKHEADS, AND SOFFIT ELEMENTS TO BE

13. SPRINKLER HEADS TO REMAIN. PROTECT DURING DEMOLITION. 14. CONTRACTOR TO REMOVE FENCING AND GATE UPON COMPLETION OF BUILDING AND SIDEWALKS/ PAVING.

DEMOLITION KEYNOTES

REMOVE GYPSUM BOARD CEILINGS, INCLUDING FRAMING. REMOVE ACOUSTICAL CEILING TILES. CEILING GRID AND HANGER WIRES TO

REMOVE ALL ACOUSTICAL CEILING TILES, GRID, AND HANGER WIRES. REMOVE WALL PARTITION AS INDICATED. REMOVE DRYWALL BULKHEAD AND/OR SOFFIT. REMOVE DRYWALL BULKHEAD TO

WOOD CEILING REMOVE LIGHT FIXTURES. (RE: ELECTRICAL.)

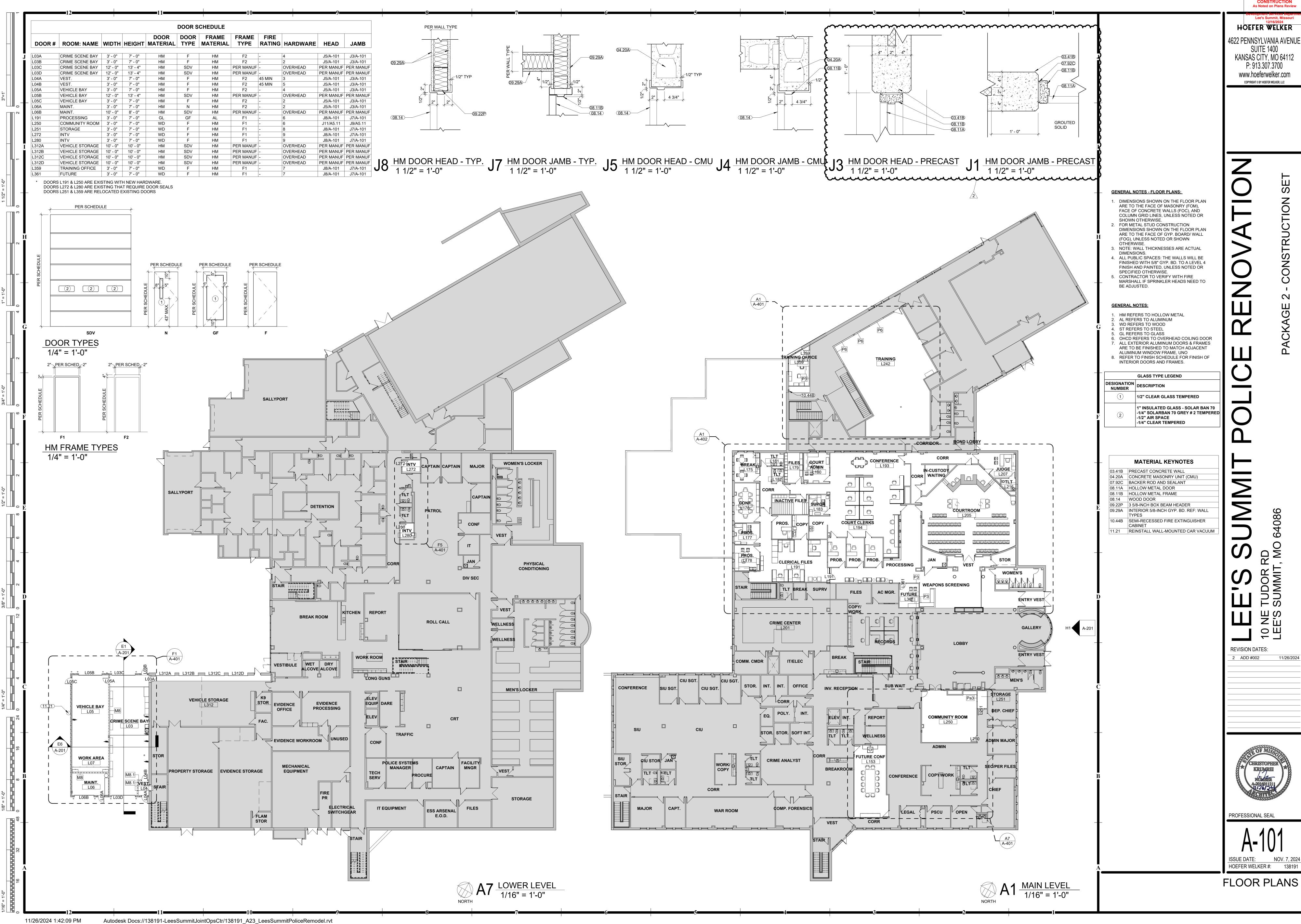
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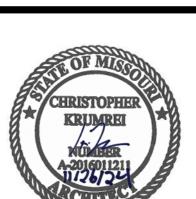
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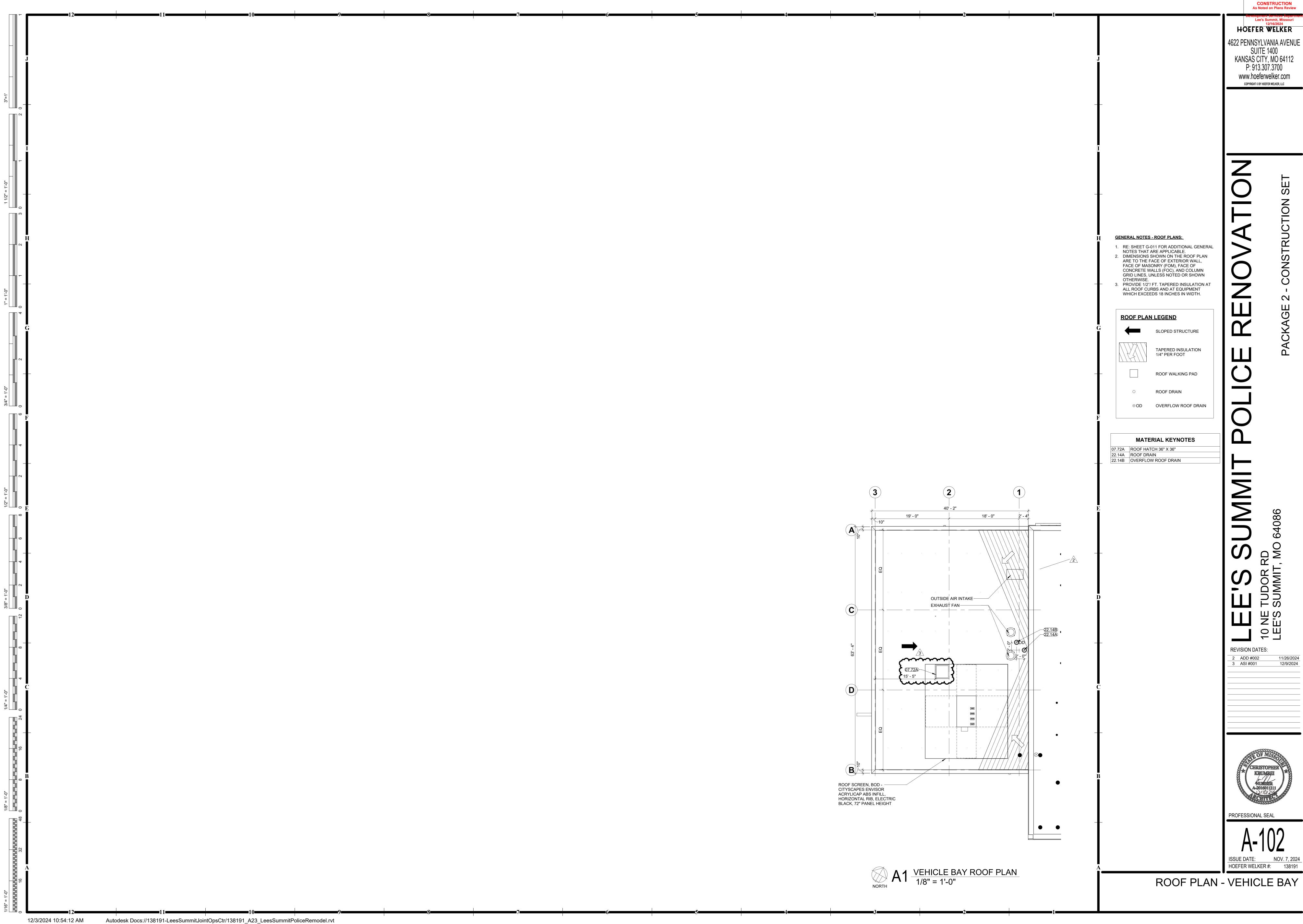
DEMO RCP - ENLARGED COURT

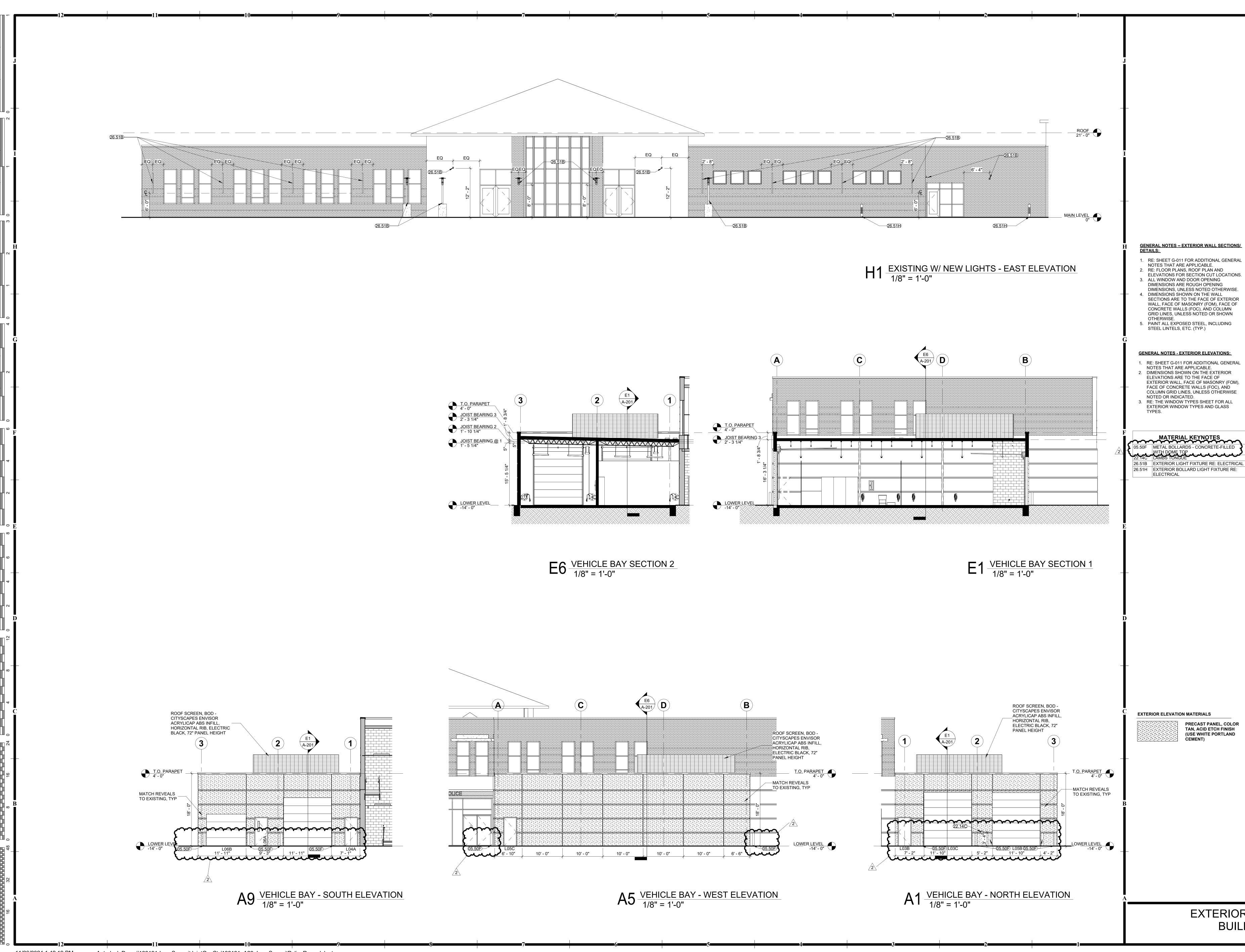


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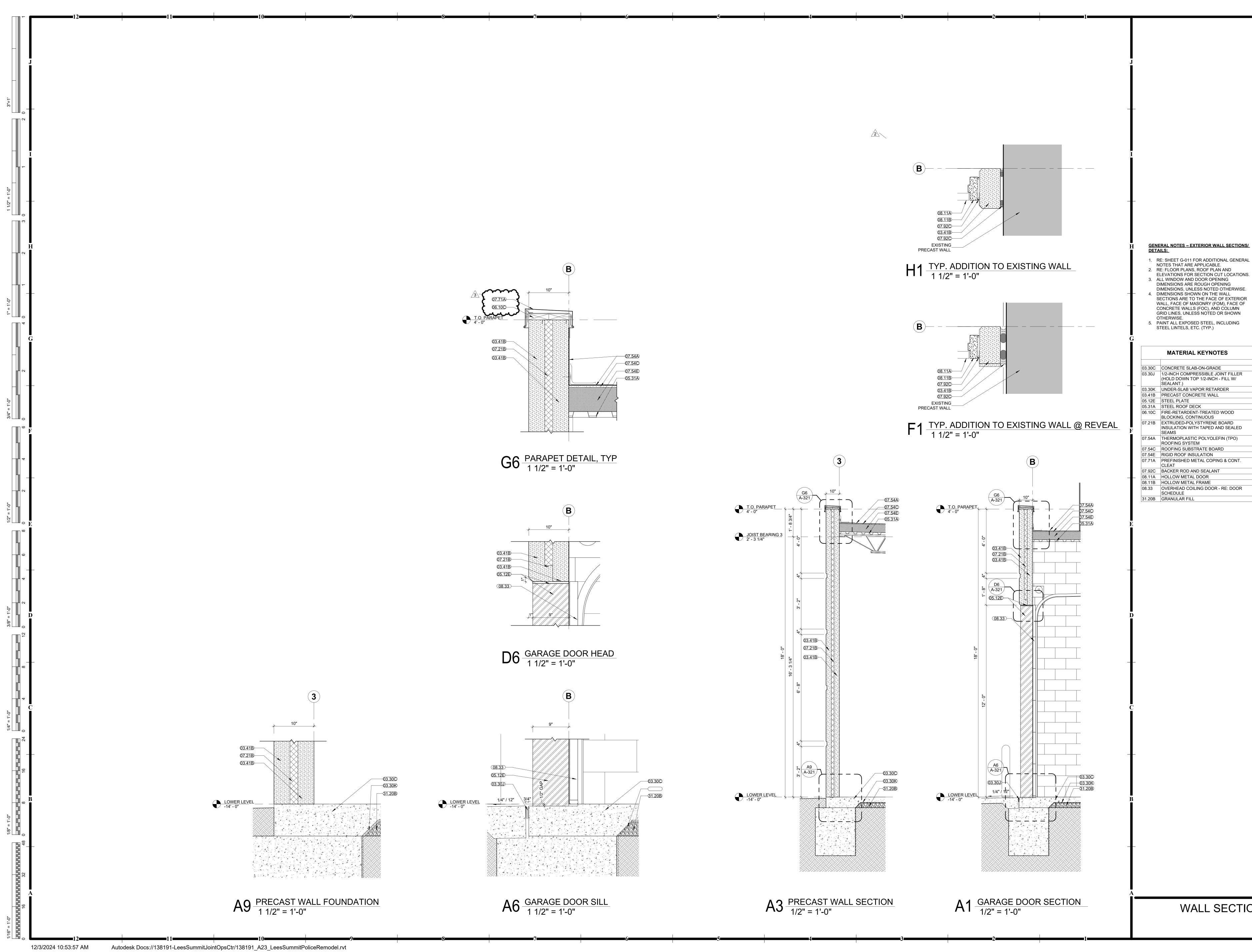
PRECAST PANEL, COLOR TAN, ACID ETCH FINISH (USE WHITE PORTLAND CEMENT)



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EXTERIOR ELEVATIONS & BUILDING SECTIONS



WALL SECTIONS & DETAILS -VEHICLE BAY

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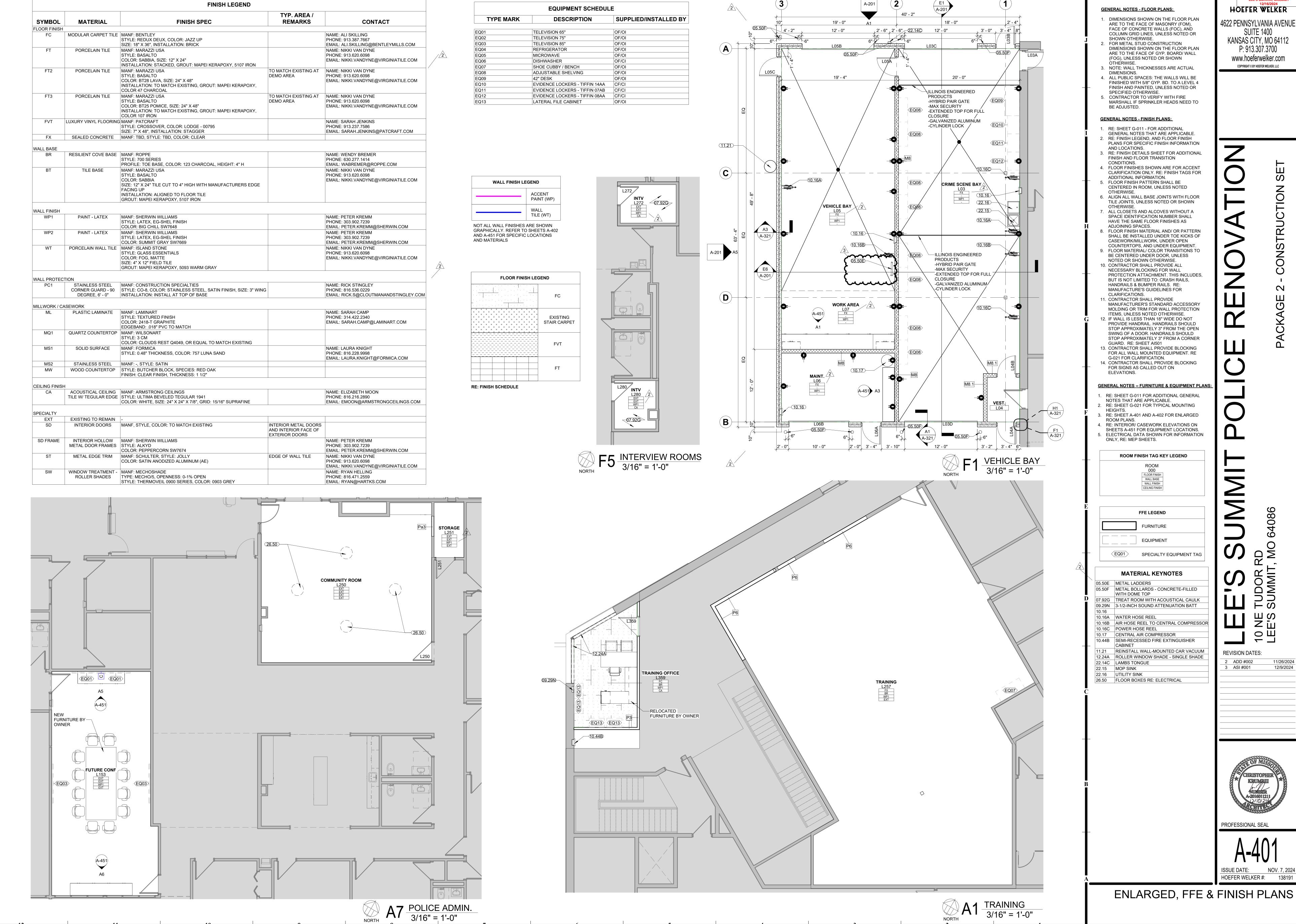
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EQUIPMENT SCHEDULE

WALL FINISH LE	GEND	FLOOR FINISH LE	GEND
	ACCENT PAINT (WP)		FC
	WALL TILE (WT)	+ + + + + + + + + + + + + + + + + + + +	EXISTING
OT ALL WALL FINISHES RAPHICALLY. REFER TO	SHEETS A-402	+ + + + + + + + + + + + + + + + + + +	STAIR CARPET
ND A-451 FOR SPECIFIC ND MATERIALS	LOCATIONS		FVT
			FT

RE: FINISH SCHEDULE

<u>GE</u>	NERAL NOTES - FLOOR PLAN
1.	DIMENSIONS SHOWN ON THE

 DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND
COLUMN GRID LINES LINESS NOTED OR

COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.

FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL

DIMENSIONS SHOWN ON THE FLOOR PLA ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE. B. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS.

4. ALL PUBLIC SPACES: THE WALLS WILL BE

5. CONTRACTOR TO VERIFY WITH FIRE

FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4

FINISH AND PAINTED, UNLESS NOTED OR

MARSHALL IF SPRINKLER HEADS NEED TO

GENERAL NOTES - FINISH PLANS:

SPECIFIED OTHERWISE.

 RE: SHEET G-011 - FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
 RE: FINISH LEGEND, AND FLOOR FINISH

BE ADJUSTED.

- PLANS FOR SPECIFIC FINISH INFORMATION AND LOCATIONS.

 3. RE: FINISH DETAILS SHEET FOR ADDITIONAL
- FINISH AND FLOOR TRANSITION
 CONDITIONS.
 4. FLOOR FINISHES SHOWN ARE FOR ACCENT
- CLARIFICATION ONLY. RE: FINISH TAGS FOR ADDITIONAL INFORMATION.
- ADDITIONAL INFORMATION.

 5. FLOOR FINISH PATTERN SHALL BE
 CENTERED IN ROOM, LINI ESS NOTE
- CENTERED IN ROOM, UNLESS NOTED OTHERWISE.
 6. ALIGN ALL WALL BASE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN
- OTHERWISE.

 7. ALL CLOSETS AND ALCOVES WITHOUT A
 SPACE IDENTIFICATION NUMBER SHALL
 HAVE THE SAME FLOOR FINISHES AS
- FLOOR FINISH MATERIAL AND/ OR PATTERN SHALL BE INSTALLED UNDER TOE KICKS OF CASEWORK/MILLWORK, UNDER OPEN

ADJOINING SPACES.

CLARIFICATIONS.

ELEVATIONS.

- CASEWORK/MILLWORK, UNDER OPEN
 COUNTERTOPS, AND UNDER EQUIPMENT.
- 9. FLOOR MATERIAL/ COLOR TRANSITIONS TO BE CENTERED UNDER DOOR, UNLESS
- BE CENTERED UNDER DOOR, UNLESS NOTED OR SHOWN OTHERWISE. 10. CONTRACTOR SHALL PROVIDE ALL
- NECESSARY BLOCKING FOR WALL PROTECTION ATTACHMENT. THIS INCLUDES, BUT IS NOT LIMITED TO: CRASH RAILS, HANDRAILS & BUMPER RAILS. RE: MANUFACTURE'S GUIDELINES FOR
- 11. CONTRACTOR SHALL PROVIDE
 MANUFACTURER'S STANDARD ACCESSORY
 MOLDING OR TRIM FOR WALL PROTECTION
 ITEMS, UNLESS NOTED OTHERWISE.
- 12. IF WALL IS LESS THAN 18" WIDE DO NOT PROVIDE HANDRAIL. HANDRAILS SHOULD STOP APPROXIMATELY 3" FROM THE OPEN SWING OF A DOOR. HANDRAILS SHOULD STOP APPROXIMATELY 3" FROM A CORNER
- 13. CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT. RE G-021 FOR CLARIFICATION.
 14. CONTRACTOR SHALL PROVIDE BLOCKING FOR SIGNS AS CALLED OUT ON

GUARD. RE: SHEET AI501

GENERAL NOTES - FURNITURE & EQUIPMENT PLANS

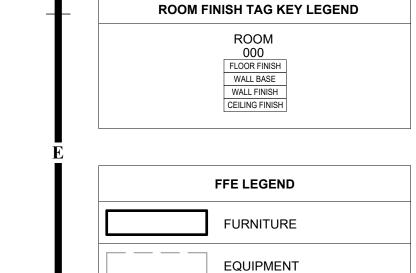
- RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.

 PE: SHEET G-021 FOR TYPICAL MOUNTING.
- RE: SHEET G-021 FOR TYPICAL MOUNTING HEIGHTS.
 RE: SHEET A-401 AND A-402 FOR ENLARGED
- ROOM PLANS.

 4. RE: INTERIOR/ CASEWORK ELEVATIONS ON SHEETS A-451 FOR EQUIPMENT LOCATIONS.

 5. ELECTRICAL DATA SHOWN FOR INFORMATION

ONLY, RE: MEP SHEETS.



MATERIAL KEYNOTES

05.51A CONCRETE-FILLED STEEL PAN STAIR
06.40Z EXTEND COUNTERTOP, MATCH ADJACENT
09.30H PORCELAIN TILE
10.15 WALL-MOUNTED TELEPHONE ENCLOSURE
12.24C MECHANICAL ROLLER WINDOW SHADE
26.50 FLOOR BOXES RE: ELECTRICAL

SPECIALTY EQUIPMENT TAG

EE'S SUMMIT, MO 64086

REVISION DATES:

1 ADD #001 11/18/2024 2 ADD #002 11/26/2024

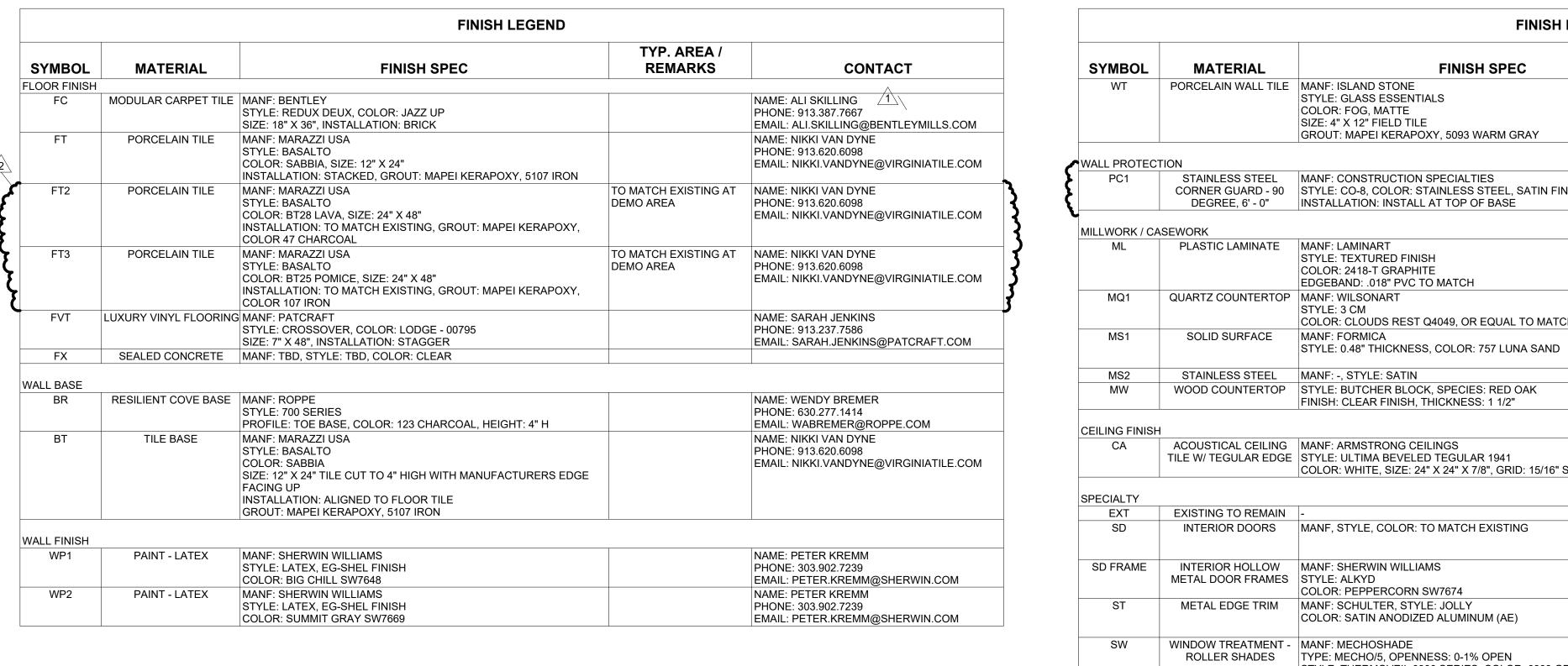


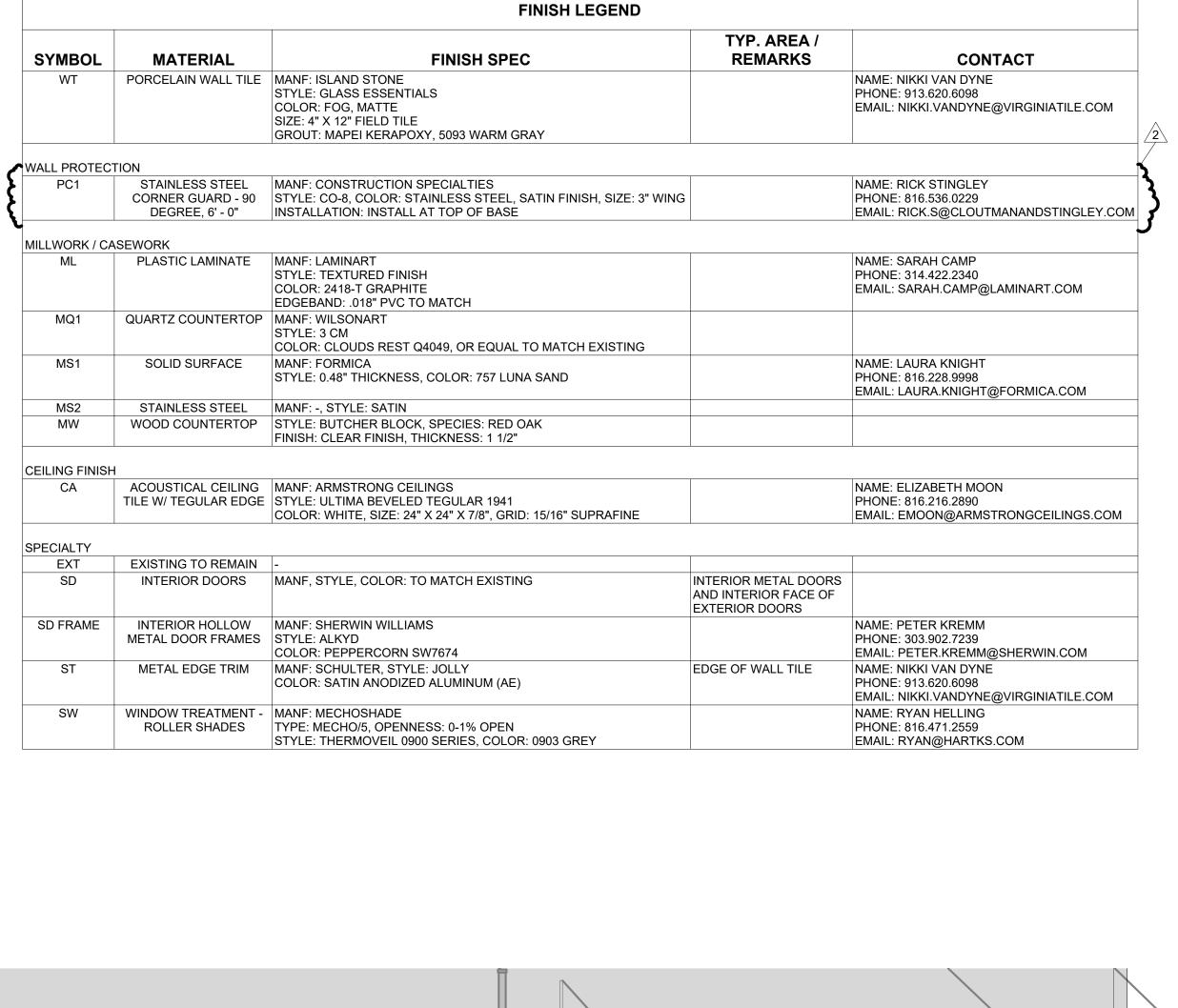
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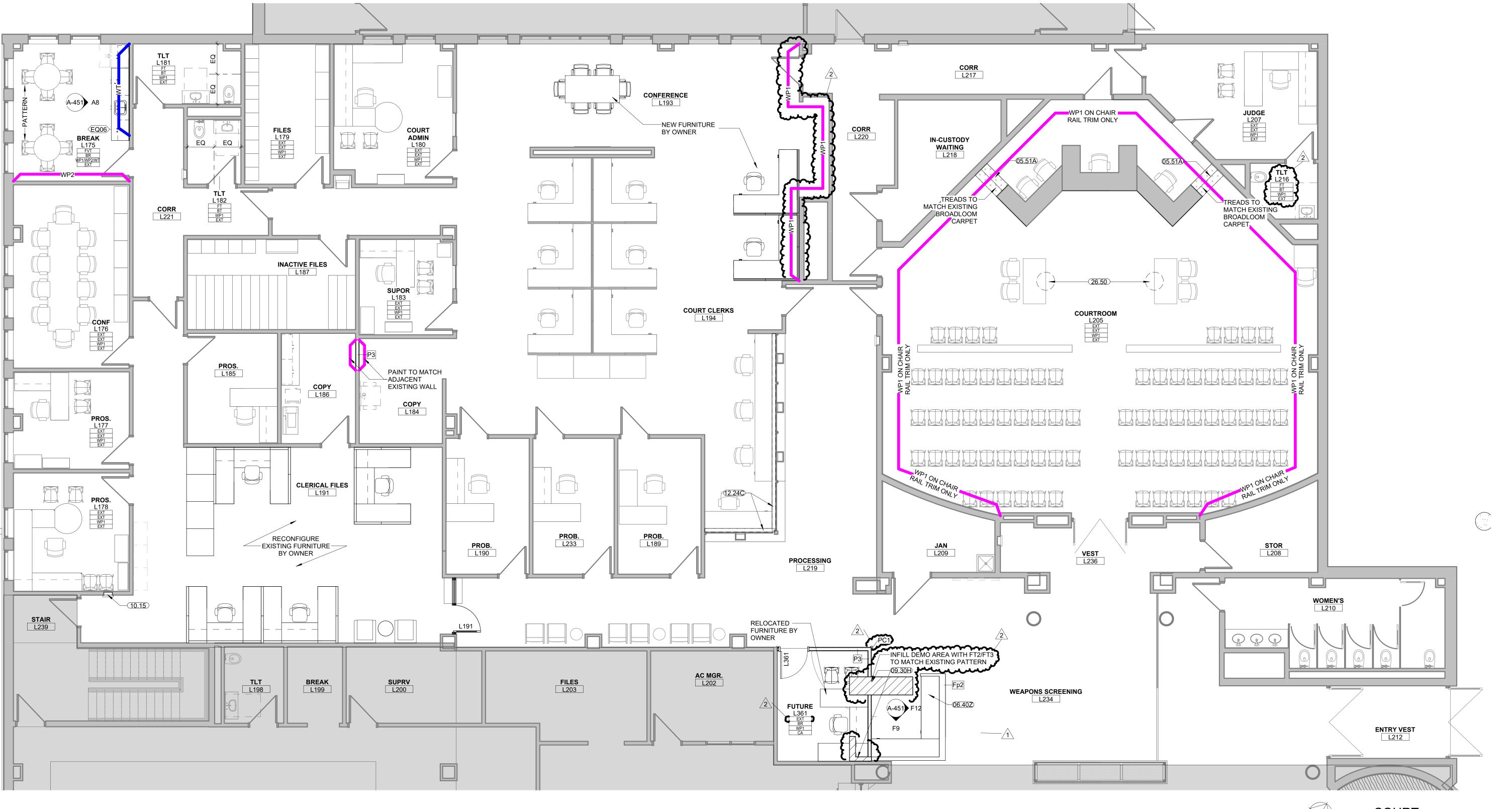
A-402

ISSUE DATE: NOV. 7, 2024
HOEFER WELKER #: 138191

ENLARGED, FFE & FINISH PLAN - COURT







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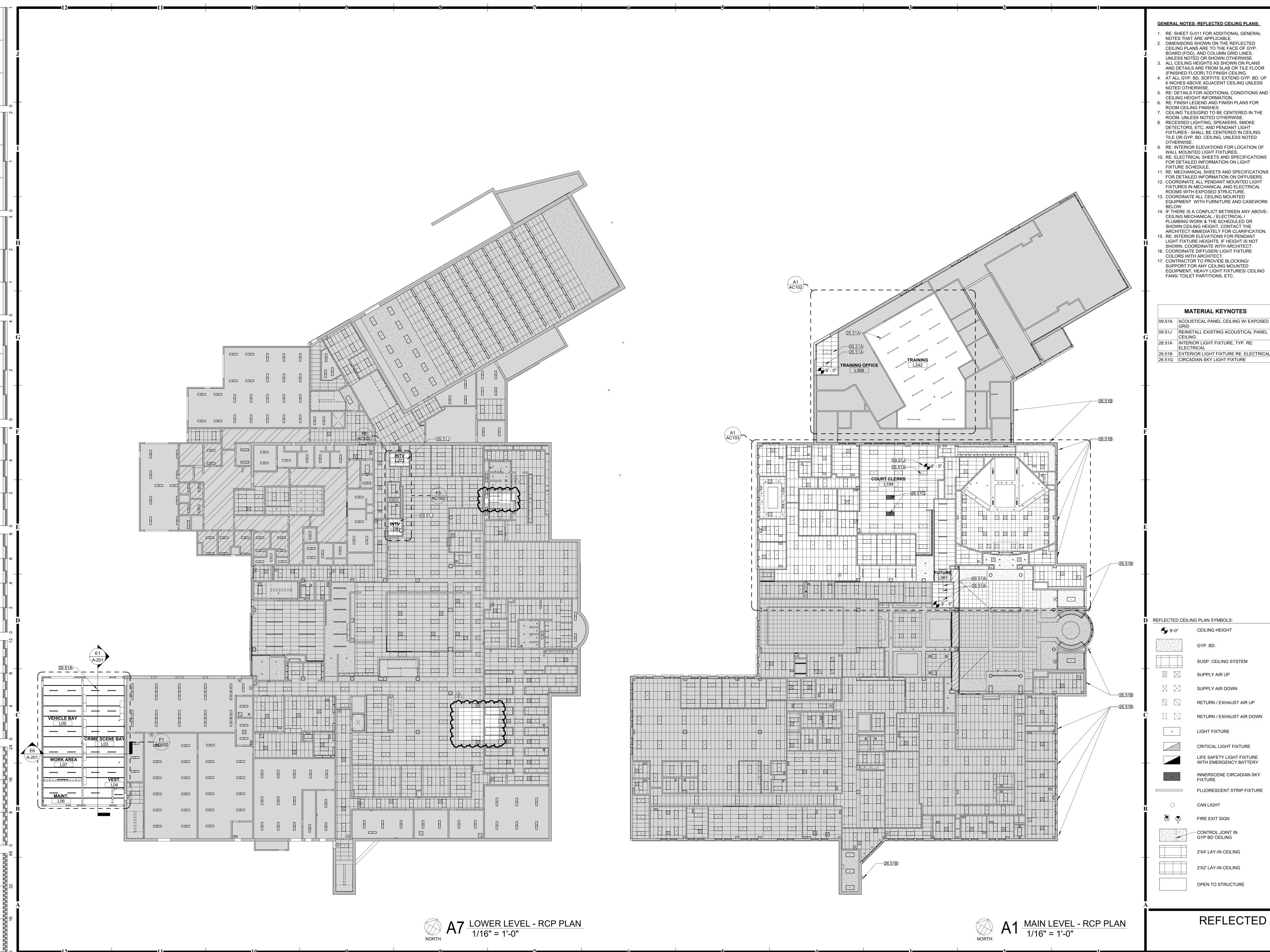
REVISION DATES: 1 ADD #001 11/18/2024 3 ASI #001 12/9/2024

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INTERIOR ELEVATIONS & DETAILS

12/3/2024 10:53:39 AM



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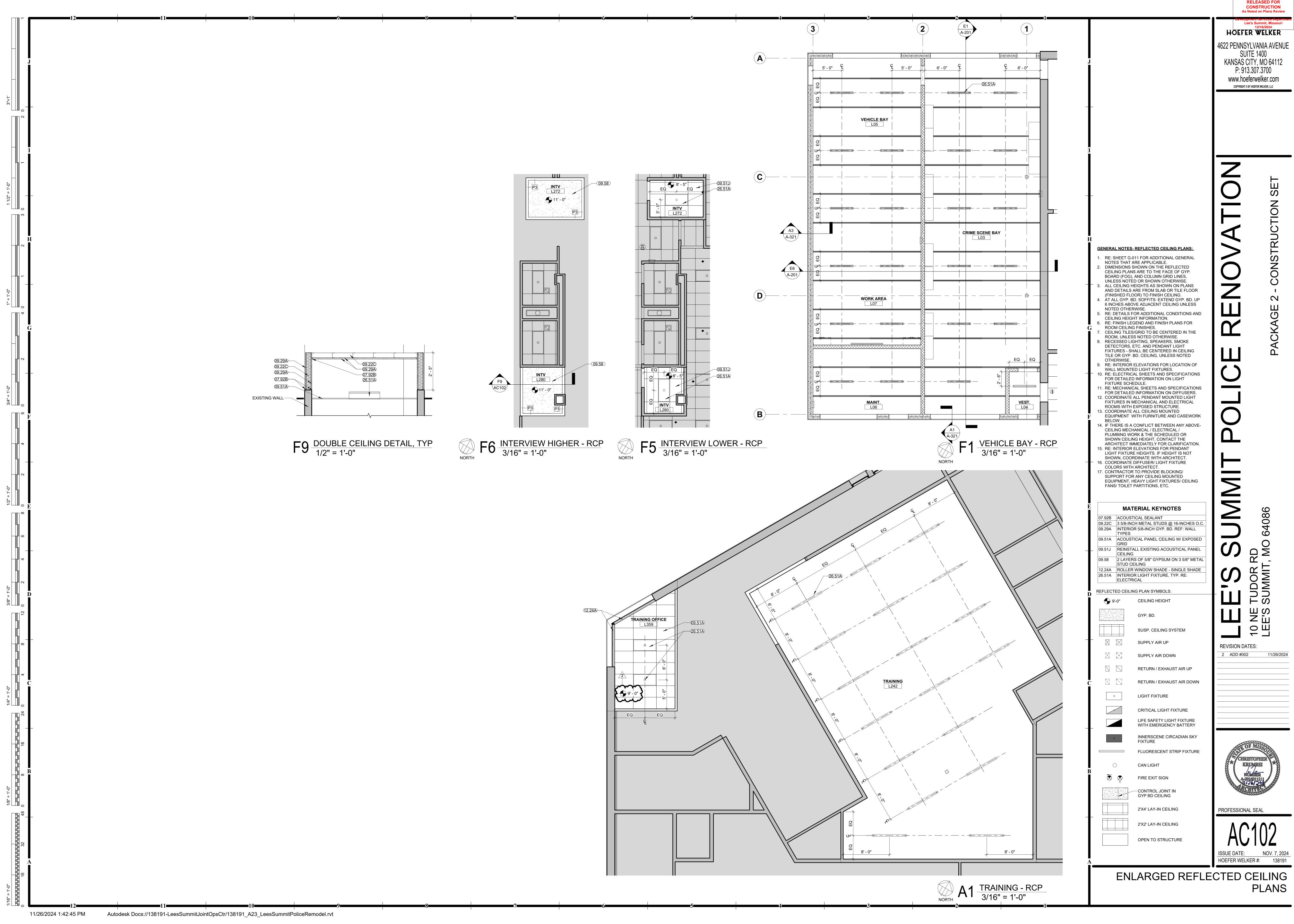
ISSUE DATE: NOV. 7, 2024
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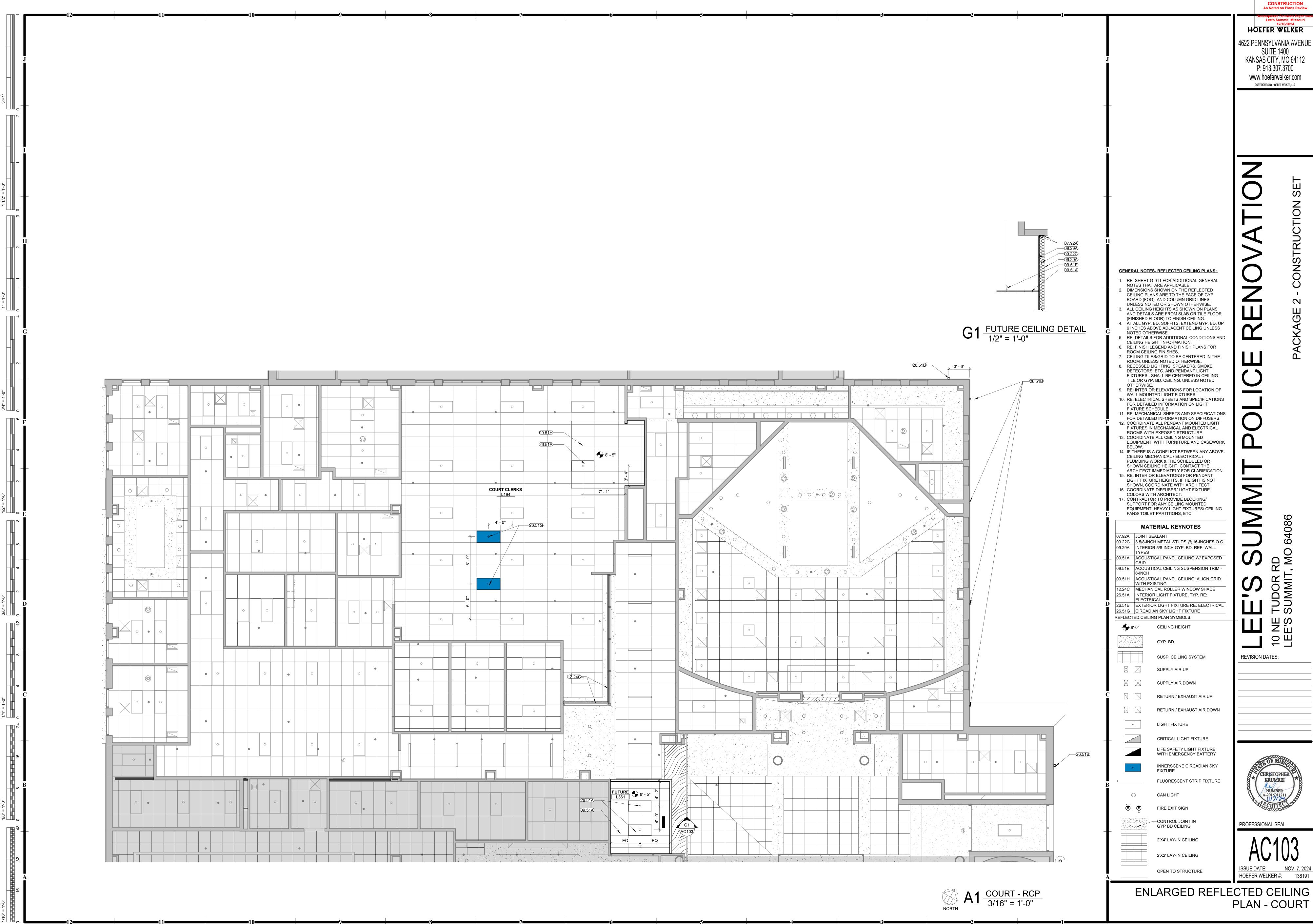
FIRE EXIT SIGN CONTROL JOINT IN GYP BD CEILING

2'X4' LAY-IN CEILING

2'X2' LAY-IN CEILING

REFLECTED CEILING PLANS





GENERAL PLUMBING NOTES

- 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD.

OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.

- 5. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
- COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 3. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- 4. CLEAN PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- 15. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- 6. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- 17. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE. PROVIDE WATER HAMMER ARRESTORS WHERE QUICK CLOSING VALVES ARE UTILIZED.

GENERAL FIRE PROTECTION NOTES

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 2. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNER'S INSURER.
- THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY.

 MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS
- 5. DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
- 6. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- 7. WHERE EXISTING SYSTEMS ARE PRESENT, CONTRACTOR SHALL MODIFY, RELOCATE AND/OR PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED FOR SCOPE OF WORK FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH WALLS, CEILINGS, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC. IN AREAS AFFECTED BY SCOPE OF WORK. NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEMS. CONTRACTOR SHALL REMOVE ALL ABANDONED EQUIPMENT, COORDINATE SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT, AND PROVIDE FIRE WATCH AND/OR INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
- 8. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- 9. FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
- 10. PER IBC 107.3.4 & 107.3.4.1, FIRE PROTECTION SHOP DRAWINGS SHALL BE PROVIDED FOR AHJ REVIEW AND APPROVAL PRIOR TO INSTALLATION AND WILL BE DEFERRED SUBMITTALS.

PLUMBING SHEET INDEX				
SHEET NUMBER	SHEET NAME			
PG001	PLUMBING LEGEND AND GENERAL NOTES			
PD101	PLUMBING DEMOLITION PLANS			
PD401	ENLARGED PLUMBING DEMOLITION PLANS			
P-121	PLUMBING PLANS			
P-401	ENLARGED PLUMBING PLANS			
P-402	ENLARGED PLUMBING PLANS			
P-601	PLUMBING SCHEDULES DETAILS AND RISERS			

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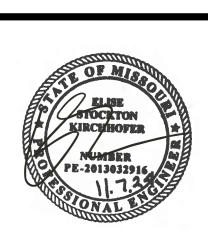
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Lee's Summit, Missouri

2014202112

LEE'S SUMMIT, MO 65086



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PG001

ISSUE DATE: NOVEMBER 7,2024
HOEFER WELKER #: 138191

PLUMBING LEGEND AND GENERAL NOTES

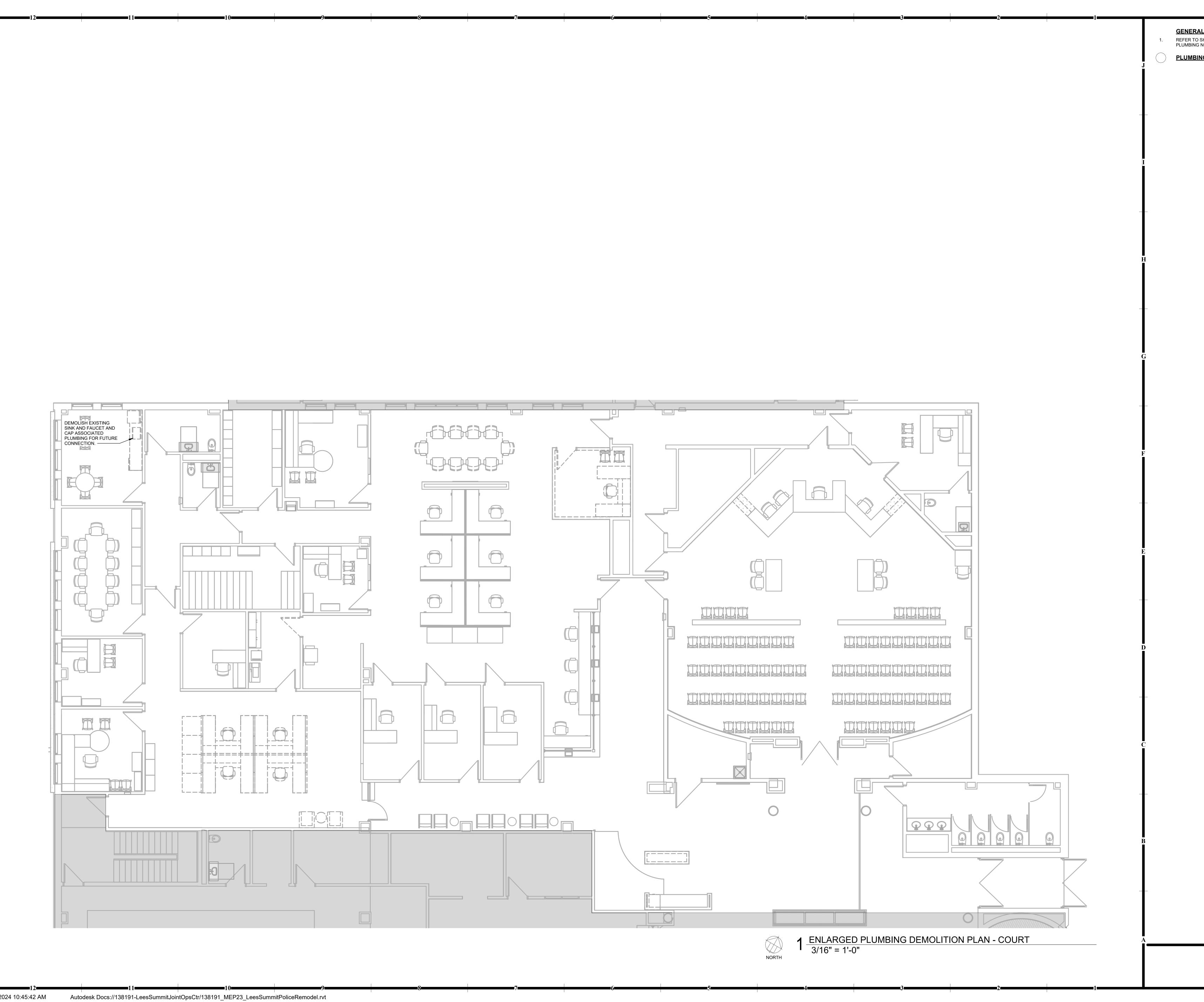


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2 ADDENDUM #2 11/26/2024





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HOEFER WELKER **GENERAL NOTES:** REFER TO SHEET PG001 FOR GENERAL PLUMBING NOTES. 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112

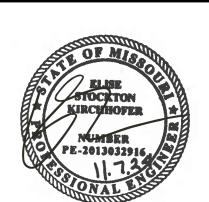
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PLUMBING PLAN NOTES:

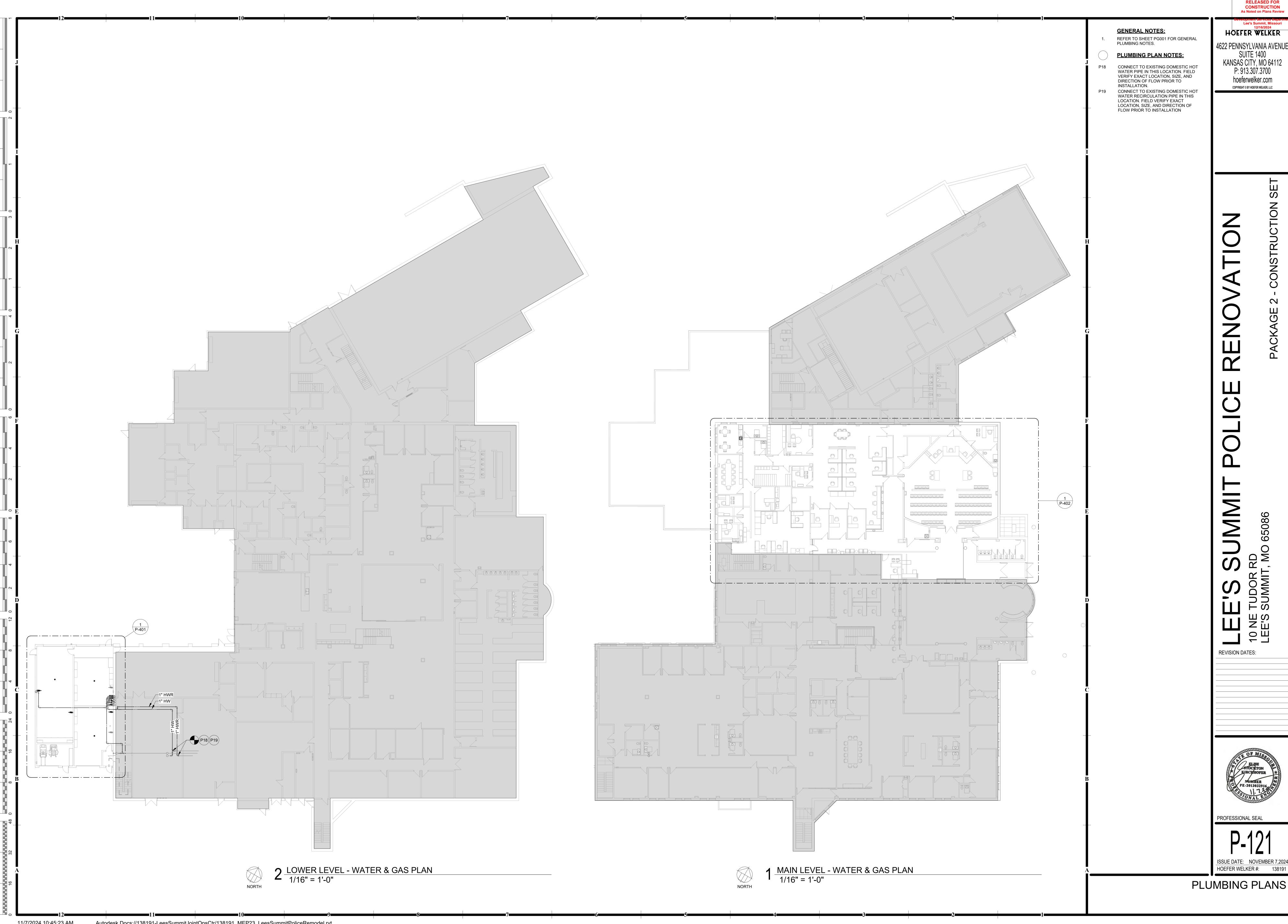
10 NE LEE'S REVISION DATES:



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ENLARGED PLUMBING **DEMOLITION PLANS**



Lee's Surmit, Missouri
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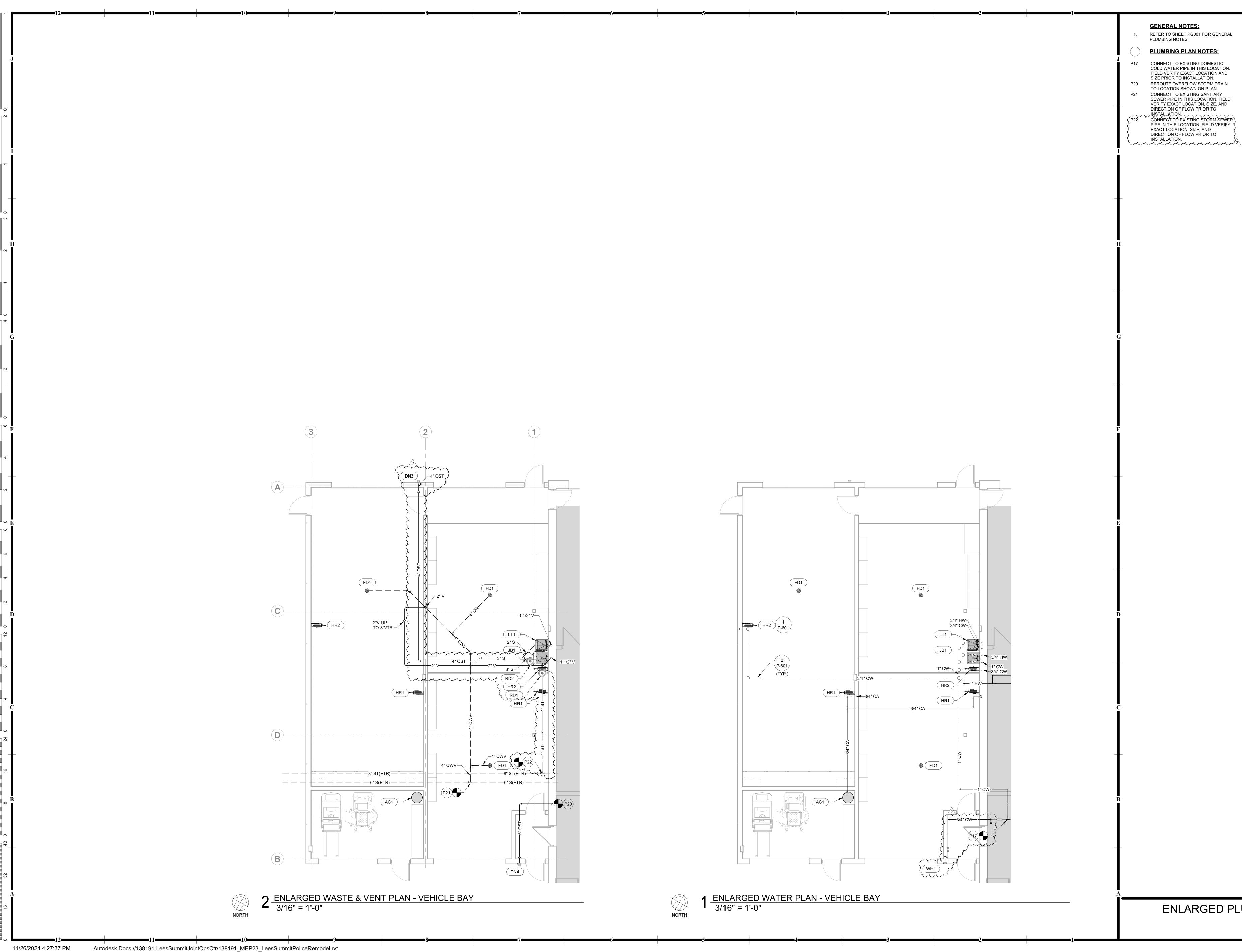
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PLUMBING PLANS



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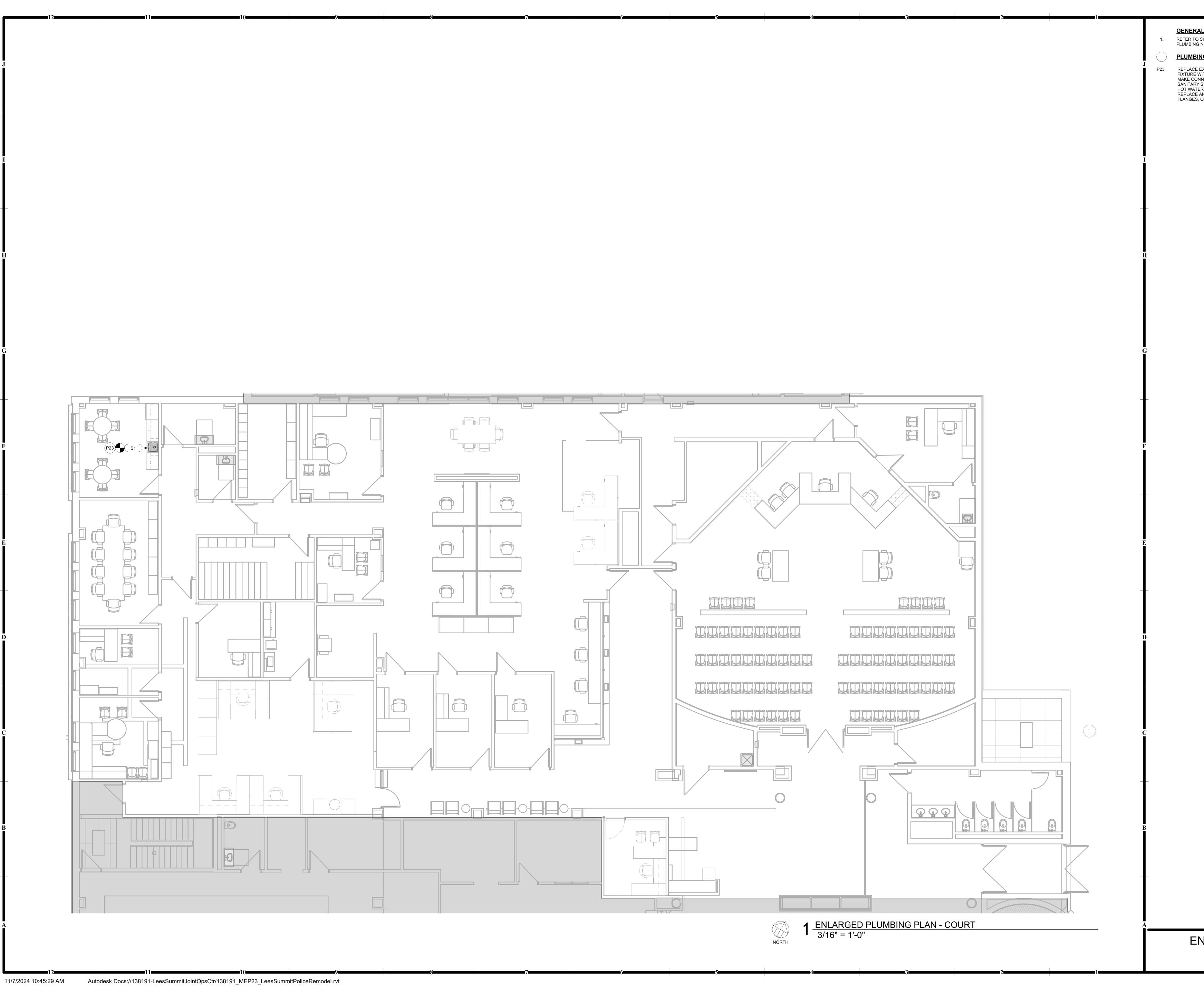
2 ADDENDUM #2 11/26/2024



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ENLARGED PLUMBING PLANS



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P23 REPLACE EXISTING PLUMBING FIXTURE WITH NEW AS SCHEDULED. MAKE CONNECTIONS TO EXISTING SANITARY SEWER, COLD WATER, AND HOT WATER LINES. REPAIR OR REPLACE ANY SUPPLY STOPS FLANGES, OR SEALS IF NECESSARY.

LEE'S SUMMIT, REVISION DATES:

ELISE
STOCKTON
KIRCHHOPER

NUMBER
PE-2013032916

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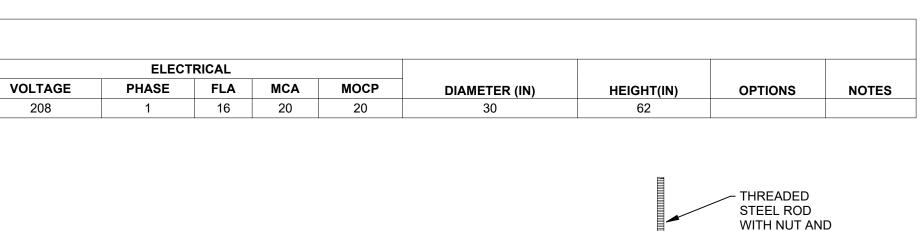
ENLARGED PLUMBING PLANS

CAPACITY (CFM)

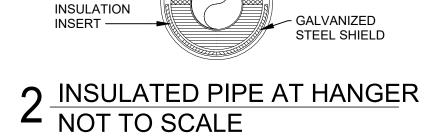
AIR COMPRESSOR SCHEDULE

OPERATING PRESSURE (PSI)

HORSEPOWER

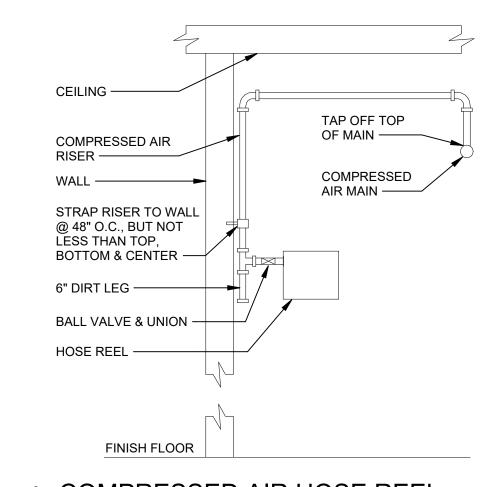


HIGH DENSITY



WASHER BOTH

INSULATION



1 COMPRESSED AIR HOSE REEL NOT TO SCALE

PLUMBING ABBREVIATION LIST GENERAL NOTES THE MANUFACTURER LISTED SHALL BE CONSIDERED THE BASIS OF DESIGN. EQUIPMENT AND ACCESSORIES SHALL BE SUPPLIED IN ACCORDANCE WITH THE SCHEDULED VALUES, NOTES, DETAILS, AND SPECIFICATIONS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST AND COORDINATION WHEN NON BASIS OF DESIGN EQUIPMENT IS PROVIDED. BADGER 5XP, 3/4 HP GARBAGE DISPOSAL AND 73274K CHROME FINISH SINK TOP SWITCH BUTTON OPERATOR. BASKET STRAINER CAST IRON BODY AND CLAMPING 6" NICKEL BRONZE STRAINER QUARTER TURN STOP VALVES PROVENT TRAP GUARD. PROVIDE WITH POWERS LFE480-00 THERMOSTATIC MIXING VALVE SET TO 105F FOR LAVATORIES AND 115F FOR SINKS

LEE'S SUMMIT, MO 65086

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2 ADDENDUM #2 11/26/2024

PROFESSIONAL SEAL

P-601

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PLUMBING SCHEDULES, DETAILS, AND RISERS

VOLUME (GAL)

PLAN MARK

UNIT TYPE

AIR COMPRESSOR

MANUFACTURER

QUINCY

MODEL

Q13160VQ

MOUNTING

VERTICAL STATIONARY

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MECHANICAL LEGEND AND **GENERAL NOTES**

10	9		0	/-	•	-3	•
MECHANICAL S	YMBOLS						
HIS IS A MASTER LEGEND AND FANDARD MOUNTING HEIGHT	O NOT ALL SYMBOLS OR ABBR		ED. RK AND ACCESSORIES	PIPING SYMBOLS	}	PIPING LINETYPE	S
ONTROL DEVICES- THERMOSTATS, SEI	NSORS, ETC. (TOP OF DEVICE) 48"		IS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.		- DIRECTION OF FLOW	——CD——	CONDENSATE DRAIN (CD)
SE THE DEFAULT MOUNTING HEIGHTS	SHOWN ABOVE UNLESS NOTED	REFER TO DUCTWORI LINER INFORMATION.	K SPECIFICATIONS FOR DUCTWORK INSULATION AND		- CONTROL VALVE	——————————————————————————————————————	AUXILIARY CONDENSATE DRAIN (ACD)
THERWISE IN THE SPECIFICATIONS OR STED ARE ABOVE FINISHED FLOOR (AF	ELSEWHERE. MOUNTING HEIGHTS				- THREE-WAY CONTROL VALVE	——NPW——	NON-POTABLE WATER (NPW)
TOP OF DEVICE. ALL DEVICES SHALL IRRENT ADA AND LOCAL REQUIREMEN	. BE INSTALLED IN COMPLIANCE WITH	[]	LINEAR SLOT DIFFUSER		- SHUTOFF VALVE	——————————————————————————————————————	NATURAL GAS (G)
		+++*	INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)		- CHECK VALVE		NATURAL GAS (G)
NOTATION		++***	INOULATED TELABLE DOOT (MAX. 5-0 EONO)		- BALANCING VALVE WITH PRESSURE PORTS	——————————————————————————————————————	MEDIUM PRESSURE NATURAL GAS (MPG)
1 MECHANICAL PLAN NOTE (CALLOUT		BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER		TRIPLE DUTY VALVE WITH PRESSURE PORTS	— — MPG— —	MEDIUM PRESSURE NATURAL GAS (MFG) MEDIUM PRESSURE NATURAL GAS ON ROOF (MGP)
			BIANOTT IT TING AND MANGAE VOLOME BAMI EIX		- STRAINER	——FOS——	FUEL OIL SUPPLY (FOS)
	DESIGNATION (CONTRACTOR D UNLESS NOTED OTHERWISE)		ELBOW WITH TURNING VANES		- STRAINER WITH BLOWDOWN VALVE	FOR	FUEL OIL RETURN (FOR)
			BRANCH DUCT WITH BELL-MOUTH FITTING &		- RELIEF / SAFETY VALVE	FOV	, ,
CONNECTION POINT OF NE	W WORK TO EXISTING		MANUAL VOLUME CONTROL DAMPER		- SOLENOID VALVE		FUEL OIL VENT (FOV)
1 DETAIL REFERENCE. UPPE	R NUMBER INDICATES DETAIL		DETUDN EVIALIST OF OUTSIDE AIR DUCT LID	P		LPG	LIQUEFIED PETROLEUM GAS (LPG)
	INDICATES SHEET NUMBER		RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP		PRESSURE REDUCING VALVE	BFW	BOILER FEED WATER (BFW)
SECTION CUT DESIGNATIO	N		RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN	<u>+</u>	GAS PRESSURE REGULATOR	——HPS——	HIGH PRESSURE STEAM SUPPLY (HPS)
M1	•			PA	THERMOSTATIC MIXING VALVE	— —HPC— —	HIGH PRESSURE STEAM CONDENSATE (HPC)
DIFFUSER DESIGNATION: S1(E) 1. PLAN MARK (EXIST	ING)		SUPPLY AIR DUCT UP	×	PIPE ANCHOR	——MPS——	MEDIUM PRESSURE STEAM SUPPLY (MPS)
8" 2. NECK SIZE 200 3. AIRFLOW			SUPPLY AIR DUCT DOWN		EXPANSION JOINT	— —MPC— —	MEDIUM PRESSURE STEAM CONDENSATE (MPC)
J. AINFLUW				=			LOW PRESSURE STEAM SUPPLY (LPS)
REVIATIONS			EQUIPMENT WITH FLEXIBLE DUCT CONNECTION	×	- PIPING SUPPORT	— —LPC— —	LOW PRESSURE STEAM CONDENSATE (LPC)
AIR CONDITIONING AIR COOLED CHILLER	HWP HEATING WATER PUMP IN WC INCHES OF WATER		S1 (PLAN MARK)	×	- F&TTRAP	PD	CONDENSATE PUMP DISCHARGE (PD)
U AIR COOLED CONDENSING UNIT	COLUMN L LOUVER		10" (NECK SIZE) 300 CFM (CFM OF SUPPLY DIFFUSER OR REGISTER)		- BUCKET TRAP	HWS	HEATING HOT WATER SUPPLY (HWS)
ABOVE FINISHED CEILING ABOVE FINISHED FLOOR	LAT LEAVING AIR TEMPERATURE		,	<i>─</i>	THERMOSTATIC TRAP	— —HWR— —	HEATING HOT WATER RETURN (HWR)
ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING	LDB LEAVING DRY BULB LP LOW PRESSURE		E1 (PLAN MARK) 24x24 (NECK SIZE)		BACKFLOW PREVENTER	CHWS	CHILLED WATER SUPPLY (CHWS)
JURISDICTION	LWB LEAVING WET BULB LWT LEAVING WATER		800 CFM (CFM OF EXHAUST GRILLE)	· · · · · · · · · · · · · · · · · · ·	PRESSURE GAUGE	— —CHWR— —	CHILLED WATER RETURN (CHR)
AIR HANDLING UNIT ANALOG INPUT	TEMPERATURE	<u></u>	MANUAL VOLUME DAMPER	<u>Ψ</u>	THERMOMETER	——HCS——	HOT / CHILLED WATER SUPPLY (HCS)
ANALOG OUTPUT ACCESS PANEL	MAU MAKE-UP AIR UNIT MAX MAXIMUM	 	William Extension Extension	<u></u>	PRESSURE AND TEMPERATURE TEST PLUG	— —HCR— —	HOT / CHILLED WATER SUPPLY (HCR)
AIR PRESSURE DROP AMERICAN WIRE GAUGE	MBH 1000 BTU PER HOUR MD MOTORIZED DAMPER		SQUARE TO ROUND TRANSITION		- UNION	cws	CONDENSER WATER SUPPLY (CWS)
BOILER BUILDING AUTOMATION	MFR MANUFACTURER MIN MINIMUM	SD/RD	DUCT MOUNTED SMOKE DETECTOR		- FLANGE CONNECTION	CWR	CONDENSER WATER RETURN (CWR)
SYSTEM BACKBONE	N/A NOT APPLICABLE N/C NORMALLY CLOSED	<u> </u>	(SD=SUPPLY/RD=RETURN)		- VACUUM RELIEF VALVE	HPWS	HEAT PUMP WATER SUPPLY (HPWS)
BACKDRAFT DAMPER BLOWDOWN	N/O NORMALLY OPEN NOM NOMINAL	(#)	DICED DECICNATION		- AUTOMATIC AIR VENT	— —HPWR— —	HEAT PUMP WATER RETURN (HPWR)
BELOW FINISHED CEILING BELOW FINISHED FLOOR	NC NOISE CRITERIA NF NON-FUSED	#	RISER DESIGNATION		- MANUAL AIR VENT	RL	REFRIGERANT LIQUID (RL)
BELOW FINISHED GRADE BOILER FEED PUMP	NIC NOT IN CONTRACT OA OUTSIDE AIR	FD	FIRE DAMPER	<u> </u>	PRESSURE / VACUUM SWITCH	RD	REFRIGERANT DISCHARGE (HOT GAS) (RD)
BRAKE HORSEPOWER BINARY INPUT	OBD OPPOSED BLADE DAMPER PICV PRESSURE INDEP.				CLEANOUT	RS	REFRIGERANT SUCTION (RS)
BINARY OUTPUT BOTTOM OF DUCT	CONTROL VALVE PROVIDE FURNISH AND INSTALL	FSD	FIRE SMOKE DAMPER		CAP	RDB	REFRIGERANT DISCHARGE BYPASS (RDB)
BOTTOM OF STRUCTURE BRITISH THERMAL UNIT	QTY QUANTITY RA RETURN AIR	(SD)	SMOKE DAMPER	——ю	ELBOW UP	RV	REFRIGERANT VENT (RV)
CUBIC FEET PER MINUTE CHILLER	RC ROOM CRITERIA RD RETURN DUCT				ELBOW DOWN		
COOLING CONDENSATE PUMP	REA RELIEF AIR RF RETURN FAN	VD	VOLUME DAMPER		- TEE UP		
CONTROL POWER TRANSFORMER	RFR REFRIGERANT RH RELATIVE HUMIDITY	MD	MOTORIZED DAMPER	ICI	- TEE DOWN		
C COMPUTER ROOM AIR CONDITIONING UNIT	RH ROOF HOOD RPM REVOLUTIONS PER MINUTE			——+·Q	ELBOW UP WITH SHUT-OFF VALVE (SOV)		
COMPUTER ROOM UNIT	RTU ROOFTOP UNIT SA SUPPLY AIR	BD	BACKDRAFT DAMPER		ELBOW DOWN WITH SHUT-OFF VALVE (SOV)		
CONTROL VALVE CONDENSER	SCP STEAM CONDENSATE PUMP SD SMOKE DUCT DETECTOR		BLANKED OFF DIFFUSER (SHADED SECTION IS	_	TEE UP WITH SHUT-OFF VALVE (SOV)		
WATER PUMP	SD SUPPLY DUCT SF SUPPLY FAN		BLANKED OFF)		TEE DOWN WITH SHUT-OFF VALVE (SOV)		
CONDENSING UNIT P CHILLED WATER PUMP	SH SENSIBLE HEAT CAPACITY				- REDUCER		
DECIBELS DECIBEL AVERAGE	SOW SCOPE OF WORK SP STATIC PRESSURE	HVAC CONTROL	DEVICES		RECIRCULATION PUMP		
DIRECT DIGITAL CONTROL DIGITAL INPUT	ST STEAM TRAP STM STEAM	HVAC CONTROL			P-TRAP		
DISCONNECT DOWN	TBD TO BE DETERMINED TC/C TEMPERATURE CONTROLS	H HUMIDIS			- GAS COCK		
DUCT SILENCER DIRECT EXPANSION	CONTRACTOR TCP TEMPERATURE CONTROL	T THERMO			- GAS COCK - TOP BEAM CLAMP		
EXHAUST AIR ENTERING	PANEL TF TRANSFER FAN		PRESSURE SENSOR		TRAPEZE HANGER		
AIR TEMPERATURE EXHAUST DUCT	TFA TO FLOOR ABOVE TFB TO FLOOR BELOW		RATURE SENSOR		INAFLLE FIANGER		
ENTERING DRY BULB EXHAUST FAN	TH TOTAL HEAT CAPACITY TSP TOTAL STATIC PRESSURE		N MONOXIDE SENSOR				
EFFICIENCY ENERGY MANAGEMENT	TT TEMPERATURE TRANSMITTAL		N DIOXIDE SENSOR			LINETYPE LEGEND	
SYSTEM EXTERNAL STATIC	TYP TYPICAL U/F UNDERFLOOR		ENTIAL PRESSURE SENSOR				AMINOS DIFFEDENT LINETVOCO ADE VOCE
PRESSURE EXISTING TO REMAIN	U/G UNDERGROUND U/S UNDERSLAB	FS FLOW S	WITCH			COMBINATION WITH TH	AWINGS DIFFERENT LINETYPES ARE USED IN IE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS
ENTERING WET BULB ENTERING WATER	UH UNIT HEATER UNO UNLESS NOTED OTHERWISE	HS HUMIDIT	TY SENSOR			AND/OR ITEMS WHICH	ILISHED, TO BE INCLUDED AS PART OF NEW WORK ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE
TEMPERATURE FAN COIL UNIT	VAV VARIABLE AIR VOLUME VEL VELOCITY	PS PULL ST	TATION			VIEW IN WHICH THEY A	USING THESE LINETYPES ARE RELATIVE TO THE PPEAR. PHASING SHOWN IN DRAWINGS IS NOT
FROM FLOOR ABOVE FROM FLOOR BELOW	VFD VARIABLE FREQUENCY DRIVE					WHICH IS DETERMINED	ESCRIBE ALL NECESSARY CONSTRUCTION PHASING BY THE CONTRACTOR AS PART OF THEIR
FINISHED FLOOR	VRF VARIABLE REFRIGERANT					RESPONSIBILITIES. AN'	Y SUCH PHASES DESCRIBED IN THE CONSTRUCTION ERAL AND ONLY INTENDED TO INDICATE A BROAD
FINS PER INCH FEET PER MINUTE	FLOW VRV VARIABLE REFRIGERANT					ORDER FOR THE SAKE	OF DESCRIBING THE PROJECT. THE FOLLOWING ED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE
GENERAL CONTRACTOR GALLONS PER MINUTE	VOLUME W/ WITH					ETC.	J DEVICE, EQUI MENT, NOTE, LINE, SHAFE
HAND-OFF-AUTOMATIC HORSEPOWER	W/O WITHOUT WB WET BULB					EVICTING	NIEVA/
G HEATING	WC WATER COLUMN WPD WATER PRESSURE DROP					EXISTING	NEW — — — — —
	XP EXPLOSION PROOF	1				DEMOLISH — — —	— — FUTURE — — — —

PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

GENERAL MECHANICAL NOTES:

- COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
 - PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
- ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- 7. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION. DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. PROVIDE FILTERS OVER ANY
- WHERE HVAC SYSTEMS ARE REQUIRED TO STAY OPERATIONAL TO SERVE OTHER AREAS OF THE BUILDING, PLACE FILTER MEDIA OVER ALL SUPPLY AND RETURN AIR OPENINGS, TRANSFER DUCTS AND FIRE/SMOKE DAMPERS.

RETURN OR TRANSFER OPENINGS DURING CONSTRUCTION.

- 10. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
- OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
- 12. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
- 13. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
- FOR HYDRONIC, PIPING TO EQUIPMENT, MINIMUM ACCEPTABLE SIZE FOR STEEL AND COPPER PIPE IS 3/4 INCH. USE THIS CRITERIA WHERE PIPE SIZES ARE NOT SHOWN ON PLAN.
- CONTRACTOR SHALL DRAIN, FLUSH, AND REFILL ALL PIPING SYSTEMS NECESSARY TO PERFORM THE WORK. REFERENCE SPECIFICATIONS FOR FLUSHING PERFORMANCE REQUIREMENTS AND SUBMIT FLUSHING PLAN TO ENGINEER FOR REVIEW. PROVIDE CHEMICAL TREATMENT FOR ALL PIPING SYSTEMS AFTER FLUSHING AND REFILLING THE SYSTEM. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND
- GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
- 17. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
- 18. DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
- 19. PROVIDE FIRE OR FIRE/SMOKE DAMPERS, AS APPLICABLE, IN DUCTWORK AT CEILINGS AND WALLS AT LOCATIONS SHOWN ON THE PLANS. FIRE AND FIRE/SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE. COORDINATE SLEEVE LENGTH WITH REQUIREMENTS OF INSTALLED
- 20. PROVIDE WALL OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO FIRE AND FIRE/SMOKE DAMPERS. ACCESS PANEL OR DOOR SHALL BE MINIMUM SIZE OF 10" BY 10" AND SHALL BE INSTALLED WITHIN 12" OF DAMPER. PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS TOO SMALL FOR A 10" BY 10" ACCESS DOOR.
- 21. LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
- 22. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
- PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.
- 24. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH

DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.

- 25. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
- 26. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET
- 27. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL
- 28. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.

- PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

SHEET NUMBER	SHEET NAME
MG001	MECHANICAL LEGEND AND GENERAL NOTES
MD101	MECHANICAL DEMOLITION PLANS
MD401	ENLARGED HVAC DEMOLITION PLANS
MD402	ENALRGED HVAC DEMOLITION PLANS
M-101	MECHANICAL FLOOR PLANS
M-401	ENLARGED HVAC FLOOR PLANS
M-402	ENLARGED HVAC FLOOR PLANS
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES



Lee's Summit, Missouri
12/16/2024

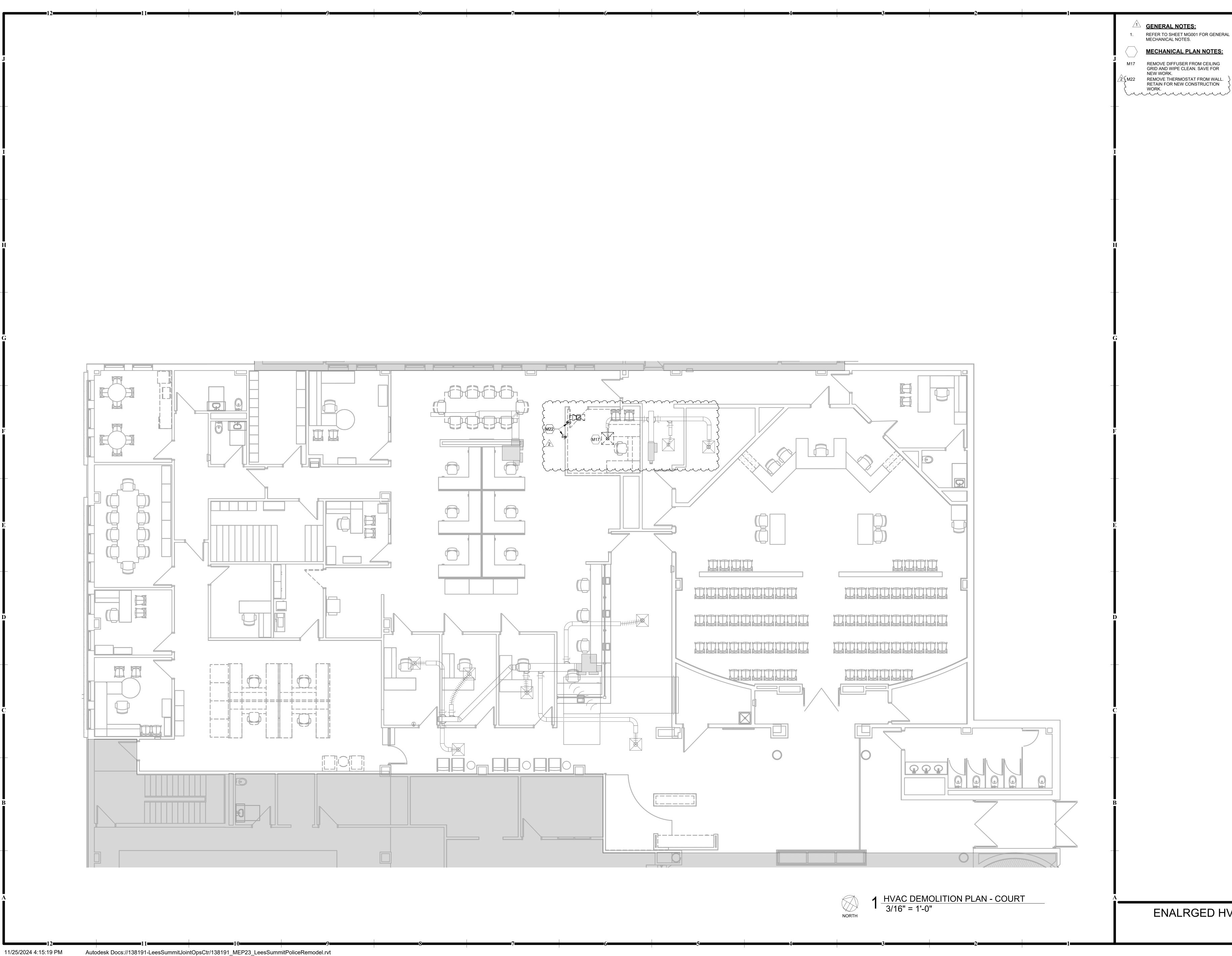
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1 ADDENDUM #1 11/19/2024 2 ADDENDUM #2 11/26/2024

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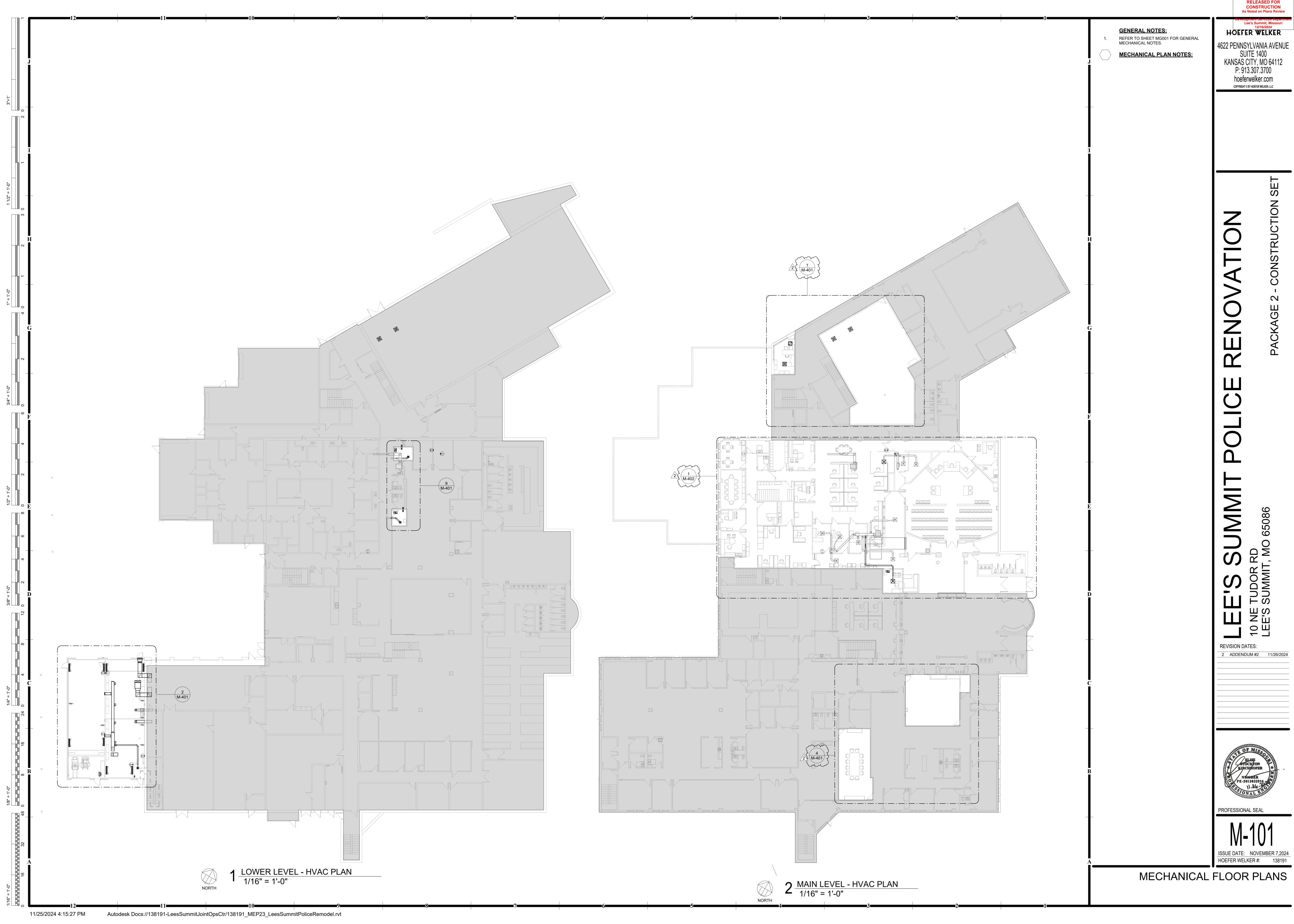
1 ADDENDUM #1 11/19/2024 2 ADDENDUM #2 11/26/2024

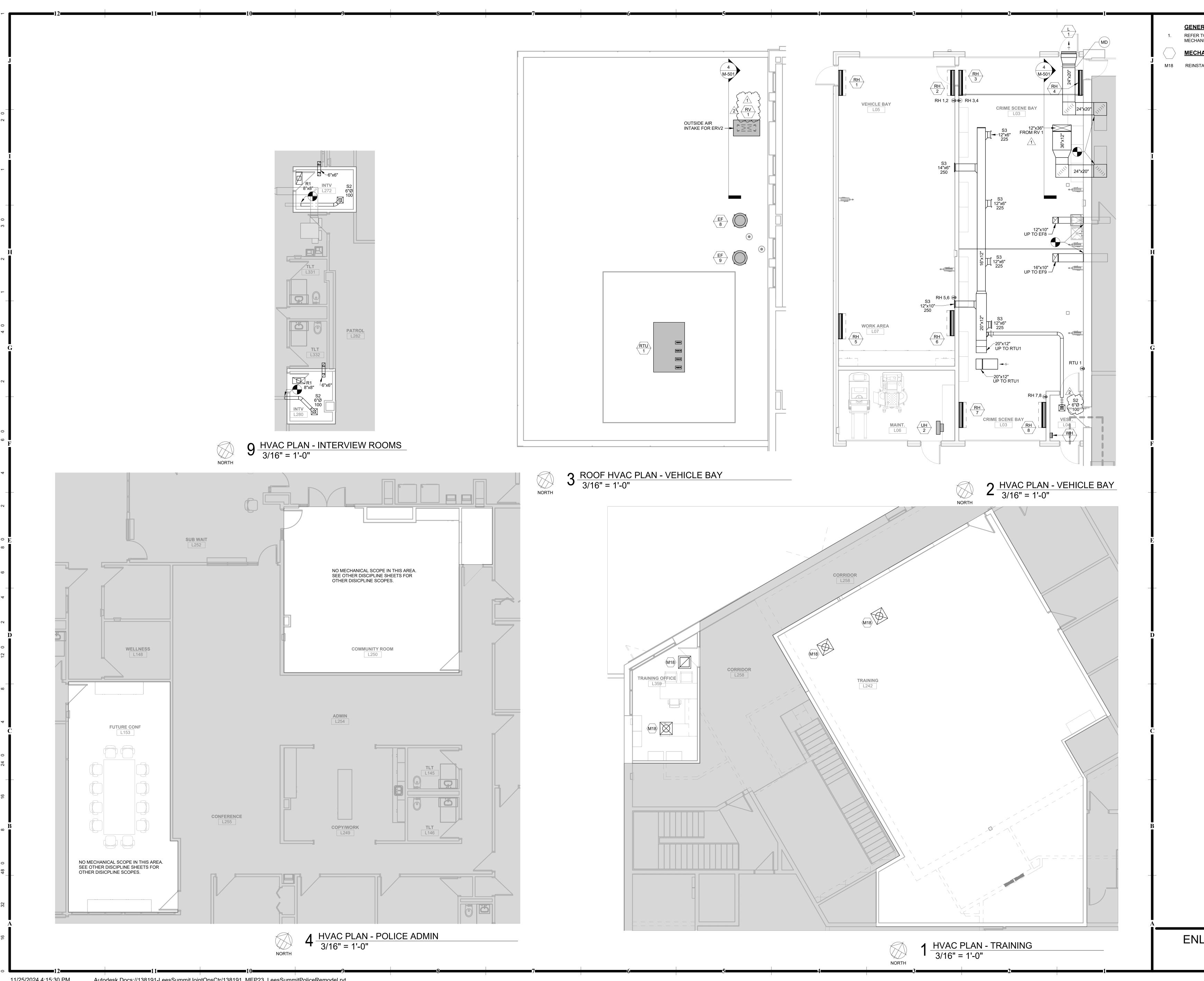


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ISSUE DATE: NOVEMBER 7,2024
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ENALRGED HVAC DEMOLITION **PLANS**

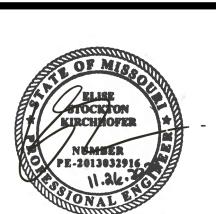




Lee's Summit, Missouri
12/16/2024
HOEFER WELKER **GENERAL NOTES:** REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES. 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112 **MECHANICAL PLAN NOTES:** M18 REINSTALL DIFFUSER IN NEW CEILING. P: 913.307.3700 hoeferwelker.com COPYRIGHT © BY HOEFER WELKER, LLC

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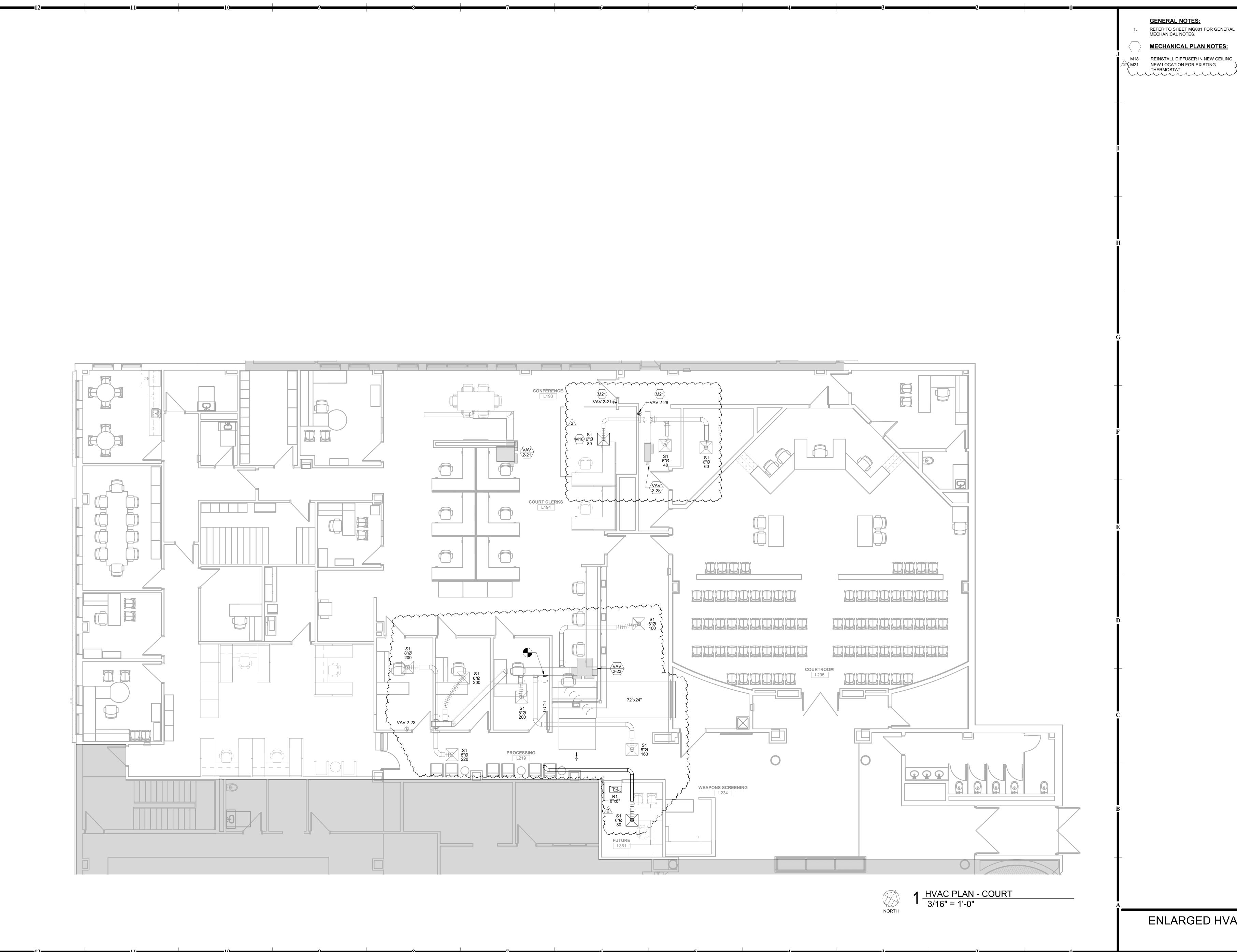
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ENLARGED HVAC FLOOR PLANS



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ENLARGED HVAC FLOOR PLANS

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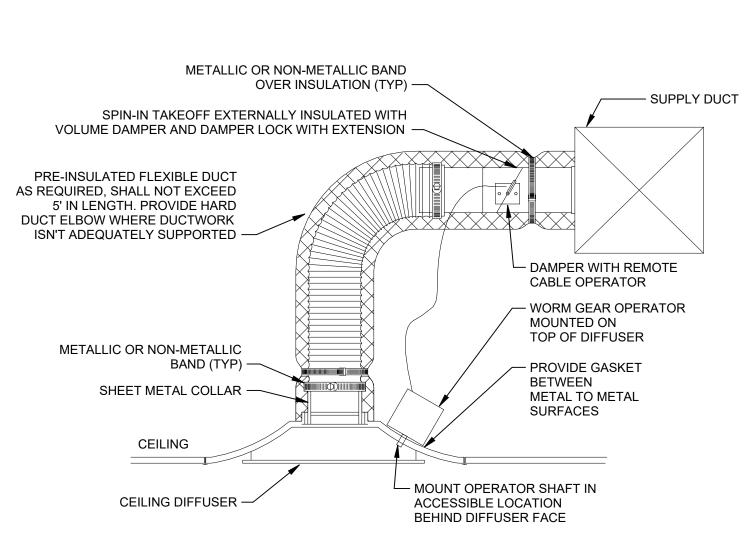
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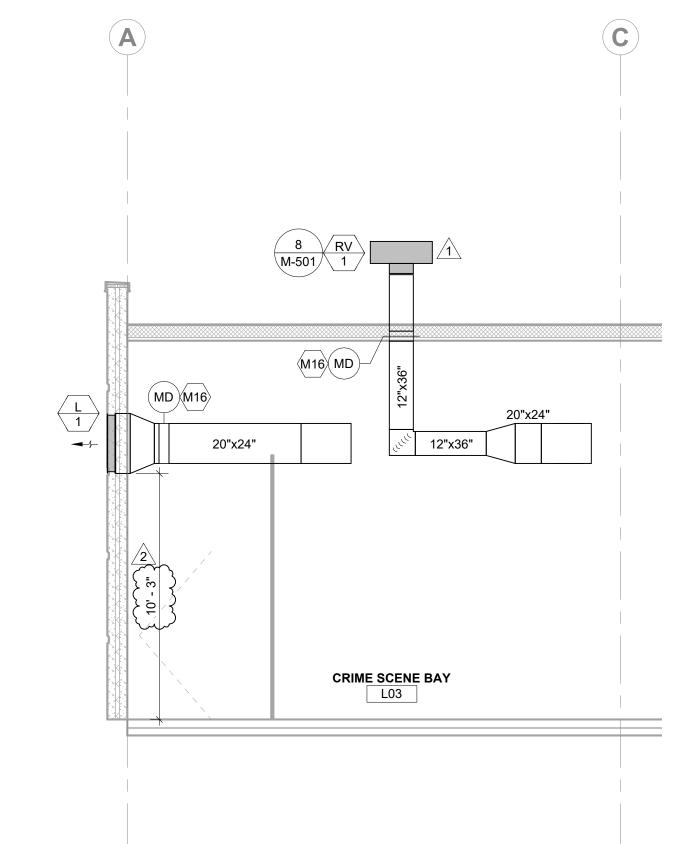
MECHANICAL DETAILS



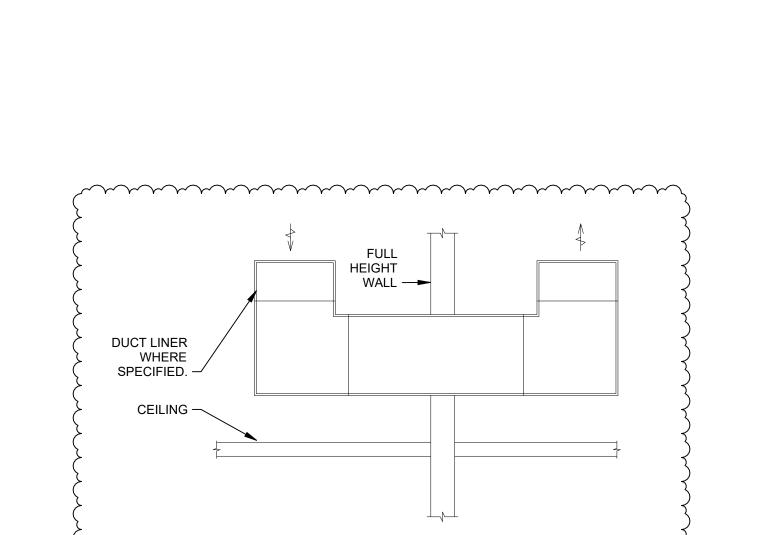
ACCESSIBLE LOCATIONS SUCH AS ABOVE HARD CEILINGS.

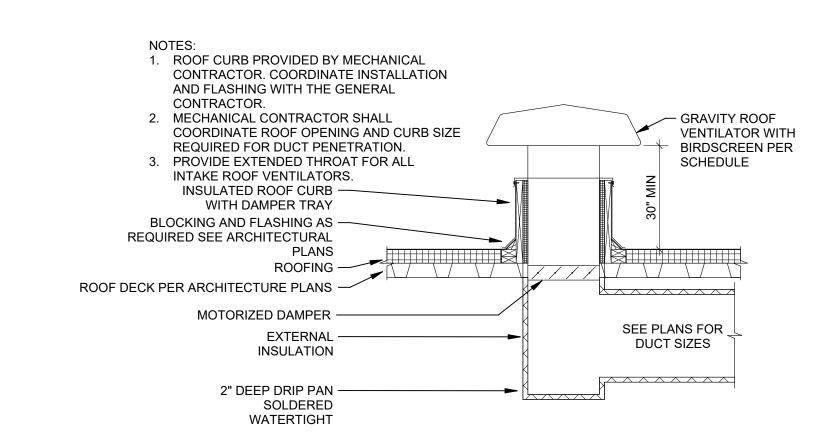
EXISTING WALL FIELD VERIFY CONSTRUCTION. -ANCHOR -- 1/2"x1/2" GALVANIZED WIRE MESH INSIDE OF ANGLE CLIP AROUND INSIDE OF LOUVER -SILICONE SEALANT. APPLY CONTINUOUS BEAD AROUND PERIMETER OF LOUVER. -LOUVER WITH BIRD SCREEN PER SCHEDULE -– DUCTWORK TO **EQUIPMENT** SHEET METAL MIN. 15 DEG. SHEET METAL WALL SLEEVE. EXTEND SLEEVE TO AN APPROPRIATE LENGTH SUCH THAT DUCT CONNECTION CAN BE MADE.

5 LOUVER ASSEMBLY DETAIL 1/8" = 1'-0"



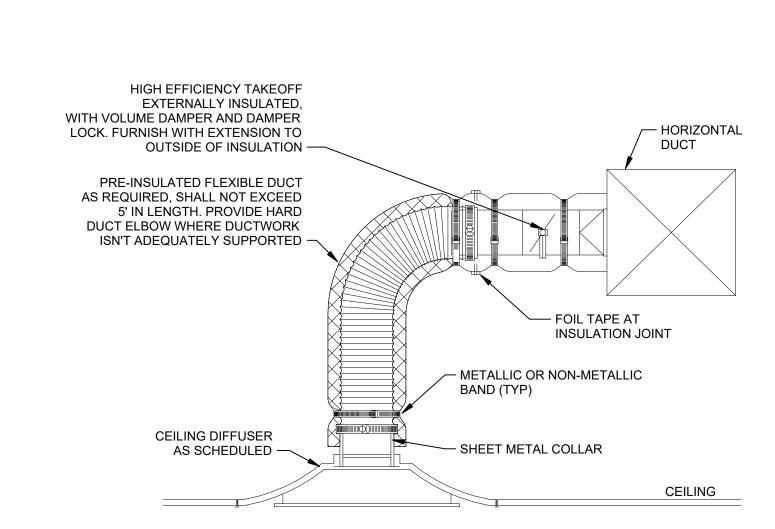
▲ OUTSIDE AIR AND RELIEF SECTION DETAIL



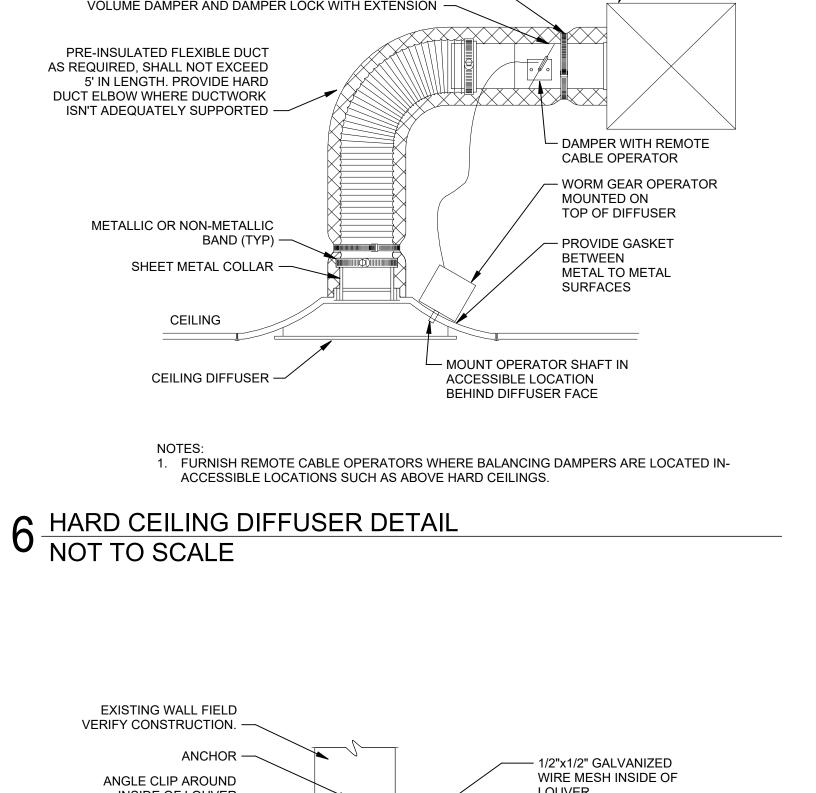


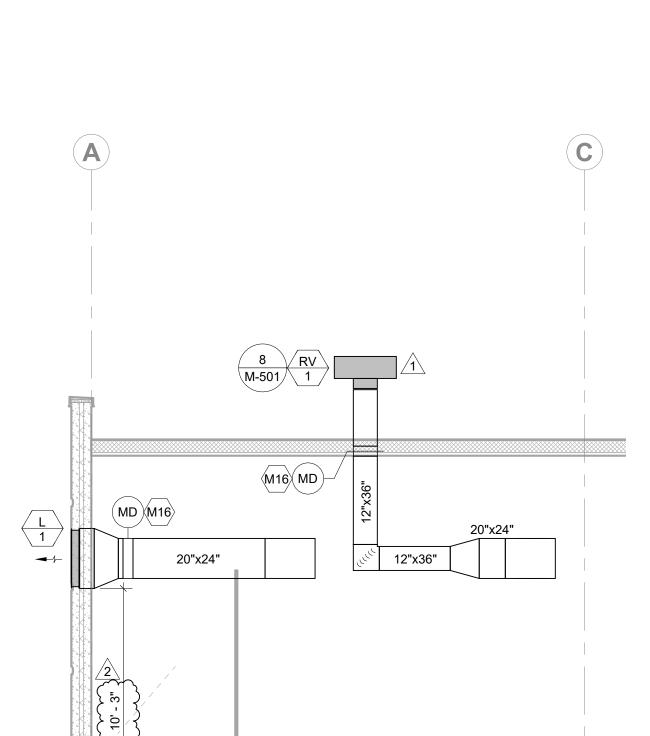
9 TRANSFER DUCT DETAIL NO SCALE

8 GRAVITY ROOF VENTILATOR DETAIL NOT TO SCALE



7 LAY-IN CEILING DIFFUSER DETAIL NOT TO SCALE





ROOF WITH SCREWS, - ROOF INSULATION PINS, OR BOLTS - ROOF DECK REFER TO FASTEN ANGLE IRON — ARCHITECTURAL SECURELY TO DUCT DRAWINGS AND ROOF STRUCTURE — DAMPER PER SCEHDULE, SECURE TO DUCT FROM ABOVE TO ALLOW SERVICE OR REMOVAL OF DAMPER FROM — EXHAUST DUCT UP THROUGH ROOF. SEE PLANS FOR SIZE AND LOCATION. 3 DOWNBLAST EXHAUST FAN DETAIL NOT TO SCALE RETURN DUCT RISER -- SUPPLY DUCT RISER PROVIDE BALANCING DAMPER T CEILING GRILLE -- PROVIDE A MINIMUM OF FOUR DUCT

EXTEND DUCTWORK -

OVER TOP OF CURB,

SECURE DUCTWORK

SECURE CURB TO —

TO CURB NAILER

— EXHAUST FAN WITH BIRDSCREEN

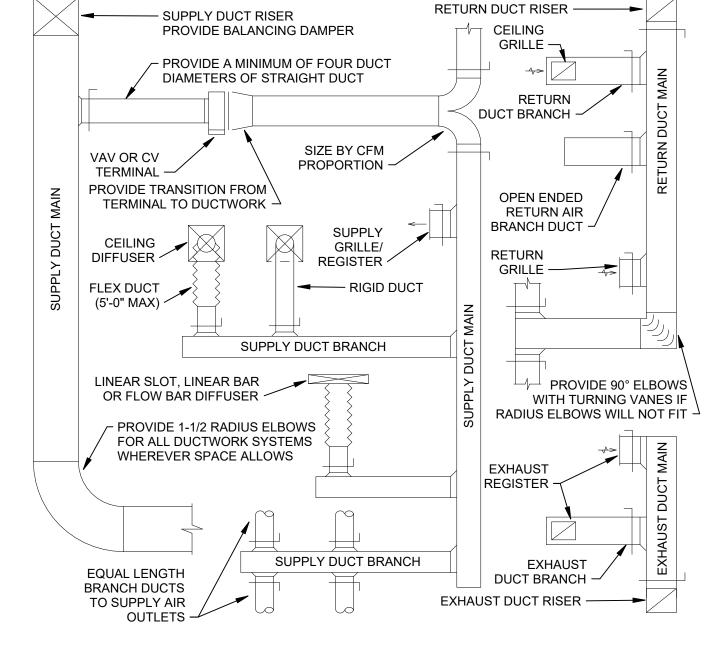
SECURE EXHAUST FAN

PREFABRICATED

INSULATED CURB WITH

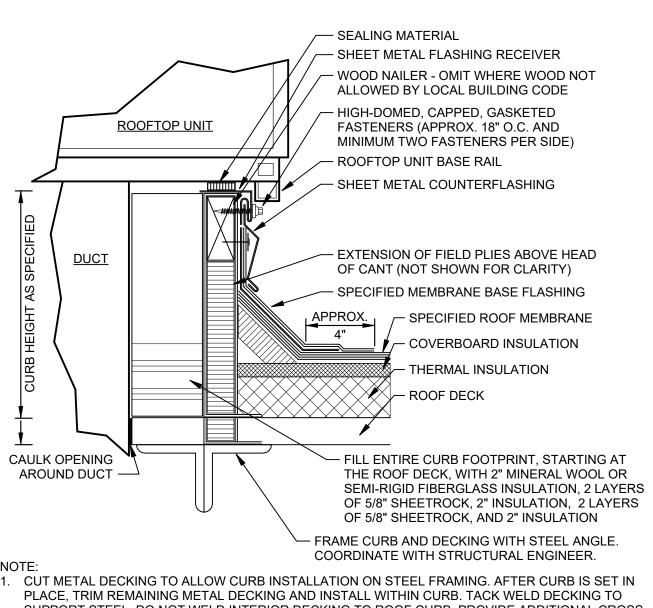
TREATED WOOD NAILER.

ROOF CURB



1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES. 2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND 3. PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN 4. ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED. 5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS. 6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT. 7. INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST

2 DUCTWORK INSTALLATION DIAGRAM NOT TO SCALE



1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.

ROOF CURB DETAIL NOT TO SCALE

FURNISH WITH INSULATED STANDARD CURB, MINIMUM HEIGHT OF 14".

ALUMINUM CONSTRUCTION AND FINISH.

EE'S SUMMIT, MO 65086

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2 ADDENDUM #2 11/26/2024

REVISION DATES:

3 ASI 001

PROFESSIONAL SEAL

M-601

ISSUE DATE: NOVEMBER 7,2024
HOEFER WELKER #: 138191

MECHANICAL SCHEDULES

HOEFER WELKER

NUMBER PE-2013032916

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MECHANICAL CONTROLS

SEQUENCE OF OPERATION

BUILDING AUTOMATION SYSTEM INTERFACE:

1. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER MORNING WARM-UP/PRE-COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND

2. RTU 1 SHALL BE CONNECTED TO THE BAS IN THE EXISTING BUILDING.

1. WHEN THE OCCUPANCY SENSOR DETECTS OCCUPANCY, THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE. THE SUPPLY FAN SHALL RUN CONTINUOUSLY, AND THE OUTSIDE AIR DAMPERS SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. THE RELIEF FAN SHALL MODULATE BY TRACKING THE

BUIDLING PRESSURE MONITOR. 2. THE HEAT PUMP COOLING AND HEATING SHALL CONTROL TO MAINTAIN THE ACTIVE DISCHARGE AIR TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED, THE OUTDOOR AIR OR MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE RELIEF AIR DAMPER SHALL TRACK THE MIXED AIR DAMPERS. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE DYNAMICALLY RESET BASED ON THE DEVIATION OF ACTUAL SPACE TEMPERATURE FROM THE ACTIVE SPACE TEMPERATURE SETPOINT. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS, THE HEAT PUMP HEATING AND COOLING SHALL BE DISABLED AND AN ALARM SHALL ANNUNCIATE AT THE BAS.

OCCUPIED STANDBY:

1. DURING OCCUPIED HOURS WHEN THE OCCUPANCY SENSORS DO NOT DETECT OCCUPANCY, THE UNIT SHALL MAINTAIN OCCUPIED STANDBY TEMPERATURES. WHEN THE OCCUPANCY SENSOR DETECTS OCCUPANCY, THE UNIT SHALL TRANSITION TO THE NORMAL OCCUPIED MODE.

1. WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE HEAT PUMP HEATING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 2.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE HEAT PUMP HEATING SHALL BE DISABLED.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL OPEN IF ECONOMIZING IS ENABLED AND REMAIN CLOSED IF ECONOMIZING IS DISABLED AND THE HEAT PUMP COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT MINUS THE UNOCCUPIED DIFFERENTIAL OF 2.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP, THE HEAT PUMP COOLING SHALL BE DISABLED AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

1. THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

MORNING WARM-UP MODE: 1. DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND FAN(S). THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

1. DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

1. WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING SETPOINT THE MODE SHALL TRANSITION TO COOLING. WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL TRANSITION TO HEATING. WHEN THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT OR BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL REMAIN IN ITS LAST STATE. IF THE SPACE TEMPERATURE SENSOR FAILS THE MODE SHALL REMAIN IN ITS LAST STATE AND AN ALARM SHALL ANNUNCIATE AT THE BAS. IF THE LOCAL AND COMMUNICATED SETPOINTS FAIL THE CONTROLLER SHALL DISABLE THE SUPPLY FAN AND AN ALARM SHALL ANNUNCIATE AT THE BAS.

DISCHARGE AIR TEMPERATURE RESET CONTROL: 1. IF THE DISCHARGE AIR TEMPERATURE DROPS BELOW THE MINIMUM LIMIT, A LOW TEMPERATURE ALARM SHALL ANNUNCIATE, AND THE UNIT SHALL SHUT DOWN. IF THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE MAXIMUM LIMIT, A HIGH TEMPERATURE ALARM SHALL ANNUNCIATE.

1. DURING OCCUPIED HOURS OR ON A CALL FOR COOLING, THE SUPPLY FANS SHALL OPERATE CONTINUOUSLY AND THEIR SPEED SHALL BE MODULATED TO MAINTAIN THE SUPPLY DUCT STATIC PRESSURE SETPOINT. THE SUPPLY DUCT STATIC PRESSURE SETPOINT SHALL BE SENT BY THE BAS AND IS RESET BETWEEN THE MINIMUM AND MAXIMUM STATIC PRESSURE LIMITS TO MAINTAIN THE CRITICAL ZONE VAV AIR DAMPER IN A POSITION BETWEEN 65% AND 75% OPEN.

2. IF ANY FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE REMAINING FANS SHALL CONTINUE TO MODULATE TO MAINTAIN THE STATIC PRESSURE SETPOINT AND AN ALARM SHALL ANNUNCIATE AT THE BAS. 3. A HARDWIRED, HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE SUPPLY AND RETURN VARIABLE SPEED DRIVES. IF THE HIGH STATIC PRESSURE CUT-OFF SWITCH IS TRIPPED THE SUPPLY AND RETURN FANS SHALL BE COMMANDED OFF, THE OUTSIDE AIR DAMPER SHALL CLOSE, HEATING AND COOLING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE REQUIRED TO RESTART THE

MIXED AIR LOW LIMIT: 1. THE INITIAL DAMPER OPENING RATE SHALL BE LIMITED TO 2% PER MINUTE (ADJ.) UNTIL THE DAMPER HAS REACHED ITS MINIMUM VENTILATION POSITION. THE OUTSIDE AIR DAMPER SHALL MODULATE TO A POSITION LESS THAN THE MINIMUM DAMPER POSITION IF THE MIXED AIR TEMPERATURE DROPS BELOW 50.0 DEG. F (ADJ.). IF THE MIXED AIR TEMPERATURE SENSOR FAILS AN ALARM SHALL ANNUNCIATE AT THE BAS AND THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.

SEQUENCE OF OPERATION - CONT.

FREEZE PROTECTION:

1. A HARDWIRED, LOW LIMIT TEMPERATURE SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE VARIABLE SPEED DRIVE. IF THE LOW LIMIT TEMPERATURE SWITCH IS TRIPPED 38.0 DEG. F (ADJ.), THE OUTSIDE AIR DAMPER SHALL CLOSE. THE ELECTRIC HEATING SHALL BE ENABLED. AN ALARM SHALL ANNUNCIATE AT THE BAS.

1. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM

SHALL ANNUNCIATE AT THE BAS.

ELECTRIC HEAT CONTROL: 1. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 20 DEG F (ADJ) AND THE FAN IS ENABLED, THE ELECTRIC HEAT SHALL BE ALLOWED TO ENABLE. THE SCR HEAT AND THE HEAT PUMP SHALL OPERATE TO MAINTAIN THE DISCHARGE AIR SETPOINT. IF THE DISCHARGE AIR SETPOINT IS EXCEEDED, THE ELECTRIC RESISTANCE

HEAT SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR SETPOINT. ELECTRIC HEAT SHALL BE DISABLED WHEN THE UNIT IS NO LONGER IN HEATING MODE OR THE FAN IS COMMANDED OFF.

1. THE RETURN AIR DAMPER'S DEFAULT POSITION SHALL BE 100 % OPEN. IN ECONOMIZER MODE, THE RETURN AIR DAMPER SHALL FOLLOW THE ECONOMIZER SEQUENCE OF CONTROL.

A. ENABLE: THE ECONOMIZER SHALL ENABLE WHEN THE OA DRYBULB IS LESS THAN THE OUTSIDEAIR DRY BULB SETPOINT 65 DEG F (ADJ). THE ECONOMIZER SHALL BE DISABLED WHEN OA ENTHALPLY IS GREATER

THAN THE OUTSIDE AIR DRYBULB SETPOINT + 2.0 DEG. F. B. OPERATION: WHEN ECONOMIZING IS ENABLED, THE OUTSIDE AIR DAMPER SHALL BE 100% OPEN AND THE RETURN AIR DAMPER SHALL BE 100% CLOSED.

A. WHEN THE SUPPLY AIR TEMPERATURE DROPS BELOW THE SUPPLY AIR TEMPERATURE SETPOINT, THE RETURN AIR DAMPER SHALL MODULATE OPEN AT A RATE OF 2% PER MINUTE (ADJ). B. WHEN THE SUPPLY AIR TEMPERATURE RISES ABOVE THE SUPPLY AIR TEMPEARTURE SETPOINT, THE

RETURN AIR DAMPER SHALL MODULATE CLOSED AT A RATE OF 2% PER MINUTE (ADJ). C. IF THE SUPPLY AIR TEMPERATURE DROPS BELOW THE SUPPLY AIR TEMPEATURE SETPOINT AND THE RETURN AIR DAMPER IS 100% OPEN, THEN THE OA DAMPER SHALL MODULATE CLOSED AT A RATE OF 2% PER MINUTE UNITIL THE SUPPLY AIR TEMPERATURE SETPOINT IS SATISFIED. THE OUTSIDE AIR DAMPER SHALL NOT CLOSE BEYOND THE MINIMUM OUTSIDE AIR VOLUME SETPOINT. THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN IF THE SUPPLY AIR TEMPERATURE RISES ABOVE THE SUPPLY AIR

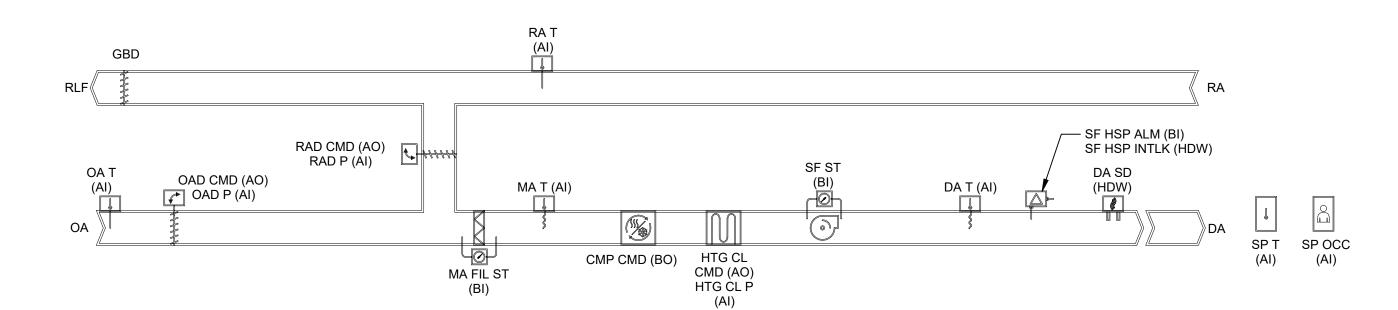
TEMPERATURE SETPOINT. D. IF THE SUPPLY AIR TEMPERATURE RISES ABOVE THE SUPPLY AIR TEMPERATURE SETPOINT AND THE OUTSIDE AIR DAMPER IS 100% OPEN, THEN THE RETURN AIR DAMPER SHALL RESUME MODULATING TO MAINTAIN SUPPLY AIR TEMPERATURE CONTROL

CONDENSATE OVERFLOW MONITORING: 1. IF THE CONDENSATE LEVEL REACHES THE TRIP POINT, A CONDENSATE OVERFLOW DIAGNOSTIC SHALL ANNUNCIATE AT THE BAS TO PREVENT THE CONDENSATE DRAIN PAN FROM OVERFLOWING AND CAUSING WATER DAMAGE TO THE RTU. THE FAN SHALL BE DISABLED AND THE HEAT PUMP COOLING SHALL BE

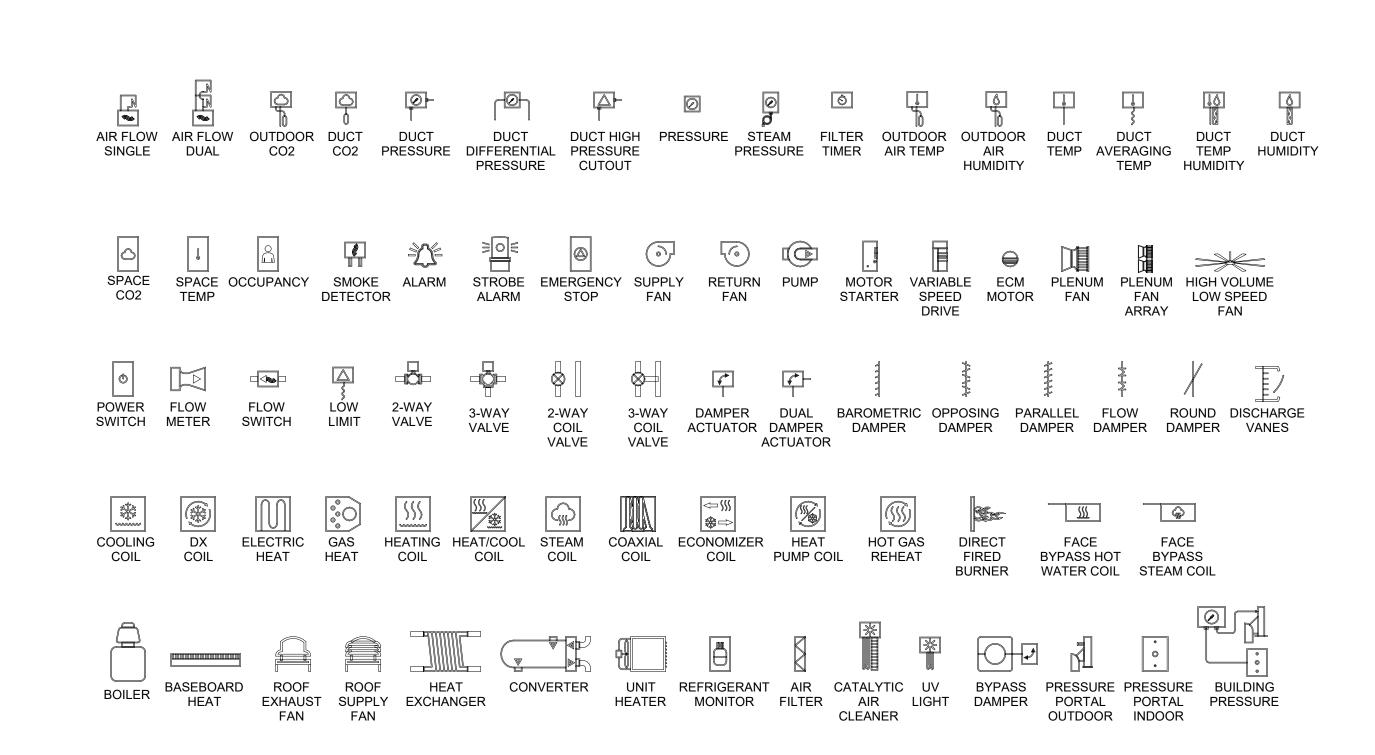
1. THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

POINTS LIST														
			F	POINTS		ALARMS								
POINT ID	POINT DESCRIPTION	ТҮРЕ	DISPLAY GRAPHIC	SOFTWARE HARD POINT INTER		HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMM. FAIL	NOTES		
DA CLG SP	DISCHARGE AIR COOLING SETPOINT			X								56 F		
DA HTG SP	DISCHARGE AIR HEATING SETPOINT			Х								65-90F		
MA LLT SP	MIXED AIR TEMPERATURE LOW LIMIT SETPOINT			Х								40 F		
OCC CLG SP	OCCUPIED COOLING SETPOINT		Х	Х								75 F		
OCC HTG SP	OCCUPIED HEATING SETPOINT		Х	Х								68 F		
UNOCC CLG SP	UNOCCUPIED COOLING SETPOINT		Х	Х								85 F		
UNOCC HTG SP	UNOCCUPIED HEATING SETPOINT		Х	X								55 F		
OCC STBY CLG SP	OCCUPIED STANDBY COOLING SETPOINT		Х	Х								78 F		
OCC STBY HTG SP	OCCUPIED STANDBY HEATING SETPOINT		Х	X								65 F		
DA T	DISCHARGE AIR TEMPERATURE	Al	Х			Х	Х			Х				
OA T	OUTDOOR AIR TEMPERATURE	Al	Х											
RA T	RETURN AIR TEMPERATURE	Al	Х											
MA T	MIXED AIR TEMPERATURE	Al	Х				Х			Х				
CMP CMD 1	COMPRESSOR 1 COMMAND	ВО	Х											
HTG CL CMD	HEATING COIL COMMAND (SCR)	AO	Х											
SF FLW	SUPPLY FAN AIR FLOW	Al	Х											
SF SPD	SUPPLY FAN SPEED (VAR)	AO	Х											
SF CMD	SUPPLY FAN COMMAND (START/STOP)	ВО	Х											
SF ST	SUPPLY FAN STATUS	BI	Х											
EPH LAT	ELECTRIC HEAT LEAVING COIL TEMPERATURE	Al	Х							Х				
EPH CMD	ELECTRIC HEAT OUTPUT COMMAND (MOD)	AO	Х											
OAD CMD	OUTDOOR AIR DAMPER COMMAND	AO	Х											
OAD P	OUTDOOR AIR DAMPER POSITION	Al	Х											
RAD CMD	RETURN AIR DAMPER COMMAND	AO	Х											
RAD P	RETURN AIR DAMPER POSITION	Al	Х											
MA FIL ST	MIXED AIR FILTER STATUS	BI	Х											
DA SD	DISCHARGE SMOKE DETECTOR INPUT			X	(
SF HSP ALM	HIGH STATIC ALARM	BI	Х					Х	X					
SF HSP INTLK	HIGH STATIC ALARM INTERLOCK			X	(
SF FAIL	SUPPLY FAN FAILURE		Х	X				Х						
BAS COM	BAS COMMUNICATION STATE			X							Х			

HEAT PUMP HEATING AND COOLING



2 RTU 1 CONTROL DIAGRAM - TACTICAL NOT TO SCALE



CONTROLS LEGEND NOT TO SCALE

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Lee's Summit, Missouri

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ELECTRICAL LEGEND AND **GENERAL NOTES**

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ALL EXTERIOR LIGHT FIXTURES SHOWN ARE ONE-FOR-ONE REPLACEMENTS OF EXISTING LIGHT FIXTURES UNLESS OTHERWISE NOTED. EXISTING POLES NO LONGER MEET LEE'S SUMMIT REQUIREMENTS. REPLACE EXISTING POLE WITH NEW SO TOTAL HEIGHT, INCLUDING CONCRETE BASE, DOES NOT EXCEED E2 PROVIDE NEW LIGHT FIXTURE IN NEW CANOPY. COORDINATE EXACT ROUTE

OF SAW CUT WITH ARCHITECT PRIOR TO ROUGH-IN. ALL CONDUITS SHALL BE CONCEALED BELOW GRADE OR

AND 8.270 SHALL TAKE PLACE AT THE

TIME OF FINAL DEVELOPMENT PLAN.

ELECTRICAL PLAN NOTES:

WITHIN COLUMNS, WALLS, OR CANOPIES. PROVIDE NEW LIGHT FIXTURE ON VEHICLE BAY ADDITION. PROVIDE NEW RECEPTACLES TO REPLACE EXISTING RECEPTACLES DEMOLISHED DURING JOINT OPERATIONS BUILDING SCOPE OF WORK. PROVIDE POST FOR FINISHED APPEARANCE, ARLINGTON GARD-N-POST, TAYMAC PARKPOST, OR APPROVED EQUAL. MAINTAIN EXISTING CIRCUITS. CIRCUITS SHOWN ARE BASED ON FIELD VERIFIED INFORMATION PROVIDED BY THE FACILITY.

CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. OVERALL LIGHTING POWER IS REDUCED EVEN WITH NEW LIGHTING. E9 PROVIDE POWER TO EXTERIOR VIDEO BOARD. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN. PROVIDE POWER FROM SPARE 20A, 1P

OF RESULTS.

E5 (1) 1" UGC TO POLICE BUILDING FOR VIDEO BOARD MONUMENT SIGN. BREAKER. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT CIRCUIT AND NOTIFY ENGINEER

ОЩ **REVISION DATES:** 2 ADDENDUM #2 11/26/2024

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ELECTRICAL SITE PLAN

	MANUEACTURER	MODEL	APPROVED	DECORPTION	NOTES
BEL	MANUFACTURER	MODEL	EQUIVALENT	DESCRIPTION	NOTES
_L S	WITCH OCCUPANCY SE	ENSURS	T		
SD	ACUITY nLIGHT	nWSX PDT D	ETC NX CONTROLS WATTSTOPPER	DUAL TECHNOLIGY OCCUPANCY SENSOR WITH RAISE/LOWER BUTTONS.	1
HTII	NG CONTROL DEVICE S	SCHEDULE GENERAL NO	OTES:		
	PROVIDE CONTROL DI	EVICES FROM THE LIST	OF MANUFACTURERS	AND MODELS OR APPROVED EQUIVALENTS. ADDITIONAL C	ONTROLS
	SHALL ONLY BE ACCE	PTED IF SUBMITTED WI	TH AN APPROVED SUB	STITUTION FORM. LIGHTING CONTROLS BID WITHOUT BEIN	G LISTED
	AS AN APPROVED EQU	JIVALENT AND WITHOU	T THE WRITTEN APPRO	OVAL OF THE ARCHITECT AND ENGINEER ARE AT THE CONT	RACTOR'S
	RISK.				
	ADJUST SENSOR SET	TINGS AND LOCATIONS	FOR PROPER LIGHTING	G CONTROL.	
	CEILING MOUNTED OC	CCUPANCY SENSORS S	HALL NOT BE INSTALLE	D WITHIN FOUR FEET OF DIFFUSERS, CEILING MOUNTED	
				- ,	

COORDINATE ALL SETTINGS, PROGRAMMING, AND SENSOR LOCATIONS WITH OWNER PRIOR TO SUBSTANTIAL COMPLETION. CONTROLS

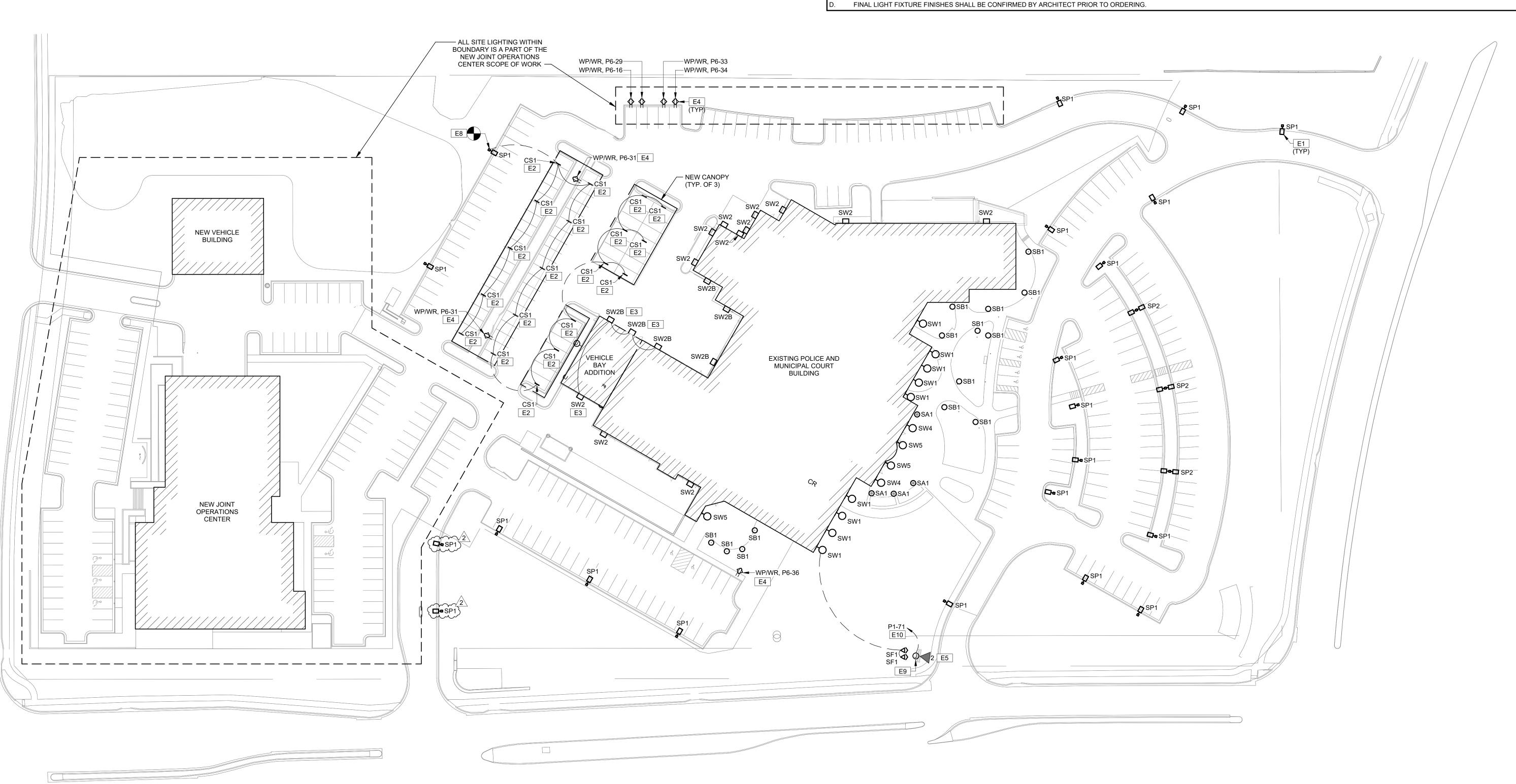
PROJECTORS, OR OTHER CEILING-MOUNTED OBSTRUCTIONS.

SHALL BE TESTED AND FULLY COMMISSIONED.

TA (2	MANUFACTURER	MODEL	APPROVED EQUIVALENT	LIGHT SOURCE	DBIVER	LUMENS	ССТ	VOLTAGE	INPUT VA	DESCRIPTION	IOTES
TAG	MANUFACTURER	MODEL	EQUIVALENT	SOURCE	DRIVER	LUMENS	CCI	VOLTAGE	INPUT VA	DESCRIPTION	IOTE
EX1	LITHONIA	EDGR 1 R EL	DUAL-LITE LE, LSL LSX, MULE CEL	LED				277 V	5 VA	EDGE LIT LED EXIT SIGN WITH RED LETTERS ON A MIRROR PANEL. INTEGRAL BATTERY POWER.TOP MOUNTED TO CEILING ABOVE AND CENTERED ABOVE DOOR. REFER TO DRAWINGS FOR NUMBER AND DIRECTION OF CHEVRONS.	
EXTERI	OR LIGHT FIXTURES										
CS1	LUMENWERX	VIAWETS D TMG HLO SW 80CRI 250LMF 30K 4FT UNV D1 1C TF GSM AL NA	TBD	LED	0-10V	1000 lm	3000 K	277 V	24 VA	SURFACE MOUNTED, WET LISTED LINEAR FIXTURE. CUSTOM PROGRAM DRIVER TO OUTPUT LUMENS SHOWN.	
SA1	LUMINIS	EC803-L1W30R1-R5-277V-BKT-K3-ECM 4T	HEPER TERRA, SOLERA OTAY	LED	0-10V	3700 lm	3000 K	277 V	38 VA	POST TOP LED FIXTURE WITH DECORATIVE TOP COVER. EXTERIOR RATED. PROVIDE WITH 10'-0" TALL, 4" DIAMETER ROUND POLE. BLACK FINISH.	
SB1	LUMINIS	LQ627-L1L10-R5-277V-BKT-K3	HEPER NORMA, SOLERA SSQB	LED 0-10		1200 lm	3000 K	277 V	13 VA	SQUARE LED BOLLARD. EXTERIOR RATED. 6" SQUARE BY 42" TALL. BLACK FINISH.	
	ERCO	35702.023	HEPER VEGA, LUMENPULSE LQS	LED	0-10V	2000 lm	3000 K	277 V	19 VA	SURFACE MOUNTED LED WALL WASH FLOOD. EXTERIOR RATED. BLACK FINISH.	
SP1	LITHONIA	DSX1-P3-30K-T4M-XVOLT-SPA-DMG-H S-DBLXD-G1-NLTAIR2 PIRHN	COOPER GALN, LSI MRM	LED	0-10V	11400 lm	3000 K	480 V	102 VA (RECTANGULAR LED AREA LIGHT. EXTERIOR RATED. TYPE 4 DISTRIBUTION. BLACK FINISH. PROVIDE WITH 17'-0" TALL BY 6" WIDE SQUARE POLE. POLE HEIGHT, INCLUDING CONCRETE BASE, SHALL NOT EXCEED 20'-0" AFG. WIRELESS CONTROLS FOR AUTOMATIC DIMMING.	
SP2	LITHONIA	DSX1-P3-30K-T4M-XVOLT-SPA-DMG-H S-DBLXD-G1-NLTAIR PIRHN	COOPER GALN, LSI MRM	LED	0-10V	22800 lm	3000 K	480 V	204 VA	SIMILAR TO TYPE SP1, EXCEPT WITH (2) HEADS AT 180 DEGREES ON THE SAME POLE AND NO HOUSE SIDE SHIELD.	
SW1	CAMMAN LIGHTING	OW610-48-30K-CLV-MV-PSB	LIGHTWAY BLCW, SOLERA SLIM	LED	0-10V	3400 lm	3000 K	277 V	40 VA	VERTICAL WALL SCONCE WITH FLAT METAL BODY. EXTERIOR RATED. BLACK FINISH.	
SW2	LITHONIA	WDGE2 LED P2 30K 90CRI VW MVOLT SRM DMG DBLXD	LSI XWS SIL, SPITZER LIGHTING WPFP	LED	0-10V	2000 lm	3000 K	277 V	15 VA	LED EXTERIOR WALL PACK. BLACK FINISH.	
SW2B	LITHONIA	WDGE2 LED P2 30K 90CRI VF MVOLT SRM DMG DBLXD	LSI XWS SIL, SPITZER LIGHTING WPFP	LED	0-10V	2000 lm	3000 K	277 V	15 VA	SIMILAR TO TYPE SW2, EXCEPT FORWARD THROW OPTICS.	
SW4	PERFORMANCE IN LIGHTING	070198	TBD	LED	0-10V	330 lm	3000 K	277 V	10 VA	SQUARE WALL SCONCE WITH PATTERNED OUTPUT.	
SW5	LUMINIS	EC803-L1W18R1-R5-277V-BKT-K3-EC8 W	HEPER TERRA, SOLERA OTAY	LED	0-10V	2200 lm	3000 K	277 V	21 VA	SIMILAR TO TYPE SA1, EXCEPT WALL MOUNTED.	
NTERIO	OR LIGHT FIXTURES										
	LITHONIA	CSS L48 4000LM MVOLT 35K 80CRI	SIGNIFY SDS, WILLIAMS FS	LED	0-10V	4000 lm	3500 K	277 V	35 VA	4 FOOT SURFACE MOUNTED STRIPLIGHT WITH LENS.	
IS2	LITHONIA	CSVT L48 5000LM MVOLT 35K 80CRI	WILLIAMS 96	LED	NON-DIM	5000 lm	3500 K	277 V	42 VA	VAPOR TIGHT LED STRIP FIXTURE.	
	LITHONIA	2ALL4 48L EZ1 LP835	FINELITE HPR, PINNACLE TR24,	LED	0-10V	4750 lm	3500 K	277 V	40 VA	RECESSED LED 2x4 TROFFER WITH CENTER ACRYLIC LENS.	
\sim		, , , , , , , , , , , , , , , , , , , 	SIGNIEVEEN	$\frac{1}{\sqrt{1}}$		4050:				ADTIFICIAL LED DISCULTIVITUALITAMATIC OUDOADIAN	<u>~</u>
TR2	INNERSCENE	CS-24-GC-INT-CSB-P0002	ARTIFICIAL SKY ARTIFICIAL SKYLIGHT	LED	0-10V	4350 lm	3500 K	277 V	75 VA	ARTIFICIAL LED SKYLIGHT WITH AUTOMATIC CIRCADIAN RHYTHM INTENSITY AND COLOR TEMPERATURE PROGRAMMING. PROVIDE NECESSARY CONTROLS TO ENSURE THE FIXTURE AUTOMATICALLY TRANSITIONS THROUGHOUT THE DAY WITHOUT USER INPUT.	

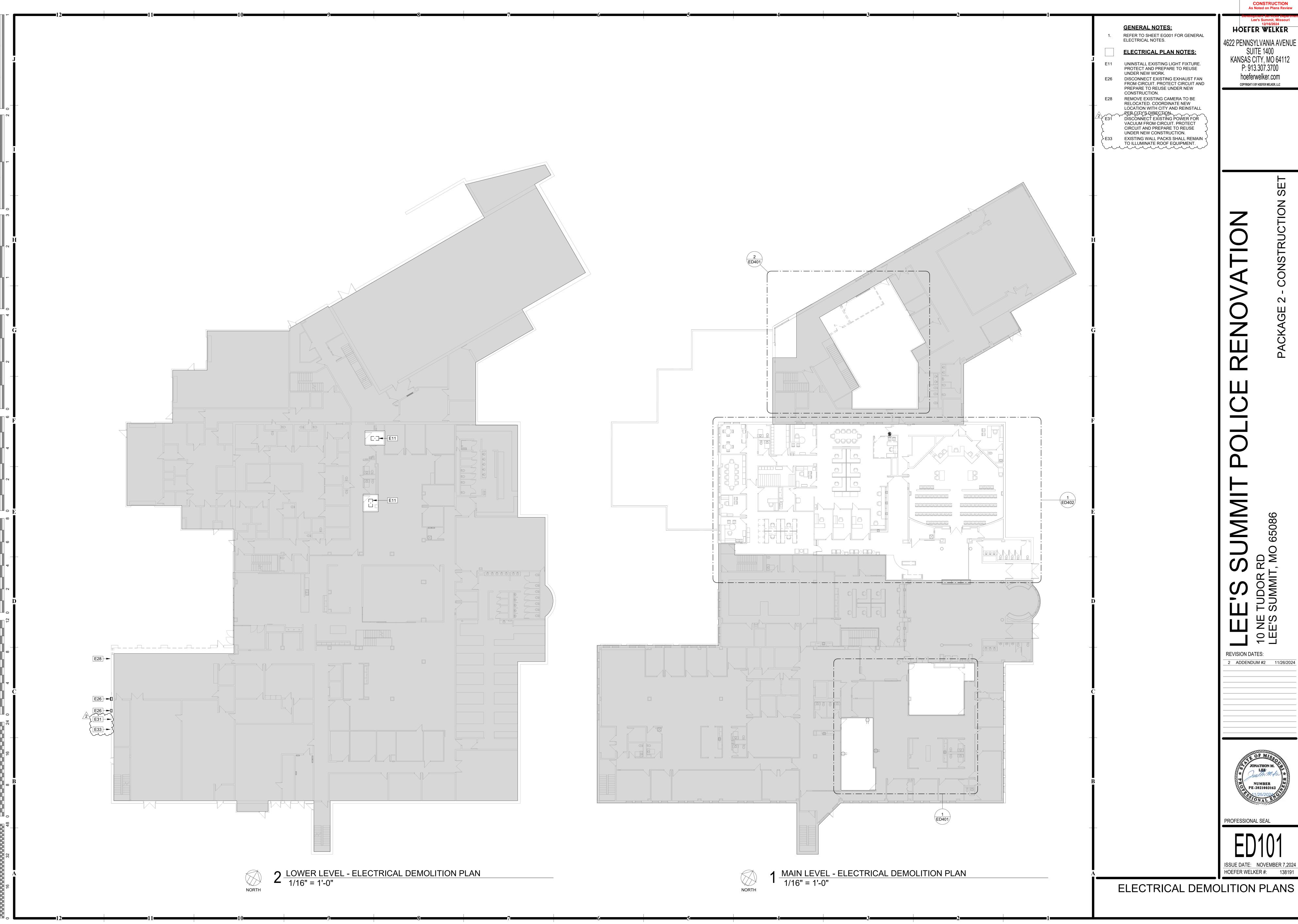
LIGHT FIXTURE SCHEDULE

PROVIDE LIGHT FIXTURES FROM THE LIST OF MANUFACTURERS AND MODELS OR APPROVED EQUIVALENTS. ADDITIONAL LIGHT FIXTURES SHALL ONLY BE ACCEPTED IF SUBMITTED WITH AN APPROVED SUBSTITUTION FORM. LIGHT FIXTURES BID WITHOUT BEING LISTED AS AN APPROVED EQUIVALENT AND WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEER ARE AT THE CONTRACTOR'S RISK. PROVIDE ALL MOUNTING AND SUPPORT HARDWARE AS REQUIRED PER THE MANUFACTURER INSTALLATION REQUIREMENTS AND TO MEET SPECIFIED MOUNTING HEIGHTS. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL LIGHT FIXTURES AND EXIT SIGNS WITH EMERGENCY BATTERY BACK-UP POWER.



ELECTRICAL SITE PLAN
1" = 40'-0"

Autodesk Docs://138191-LeesSummitJointOpsCtr/138191_MEP23_LeesSummitPoliceRemodel.rvt



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GENERAL NOTES:

ELECTRICAL PLAN NOTES:

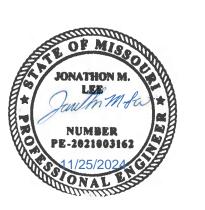
REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES. E13 DEMOLISH EXISTING LIGHT FIXTURE.

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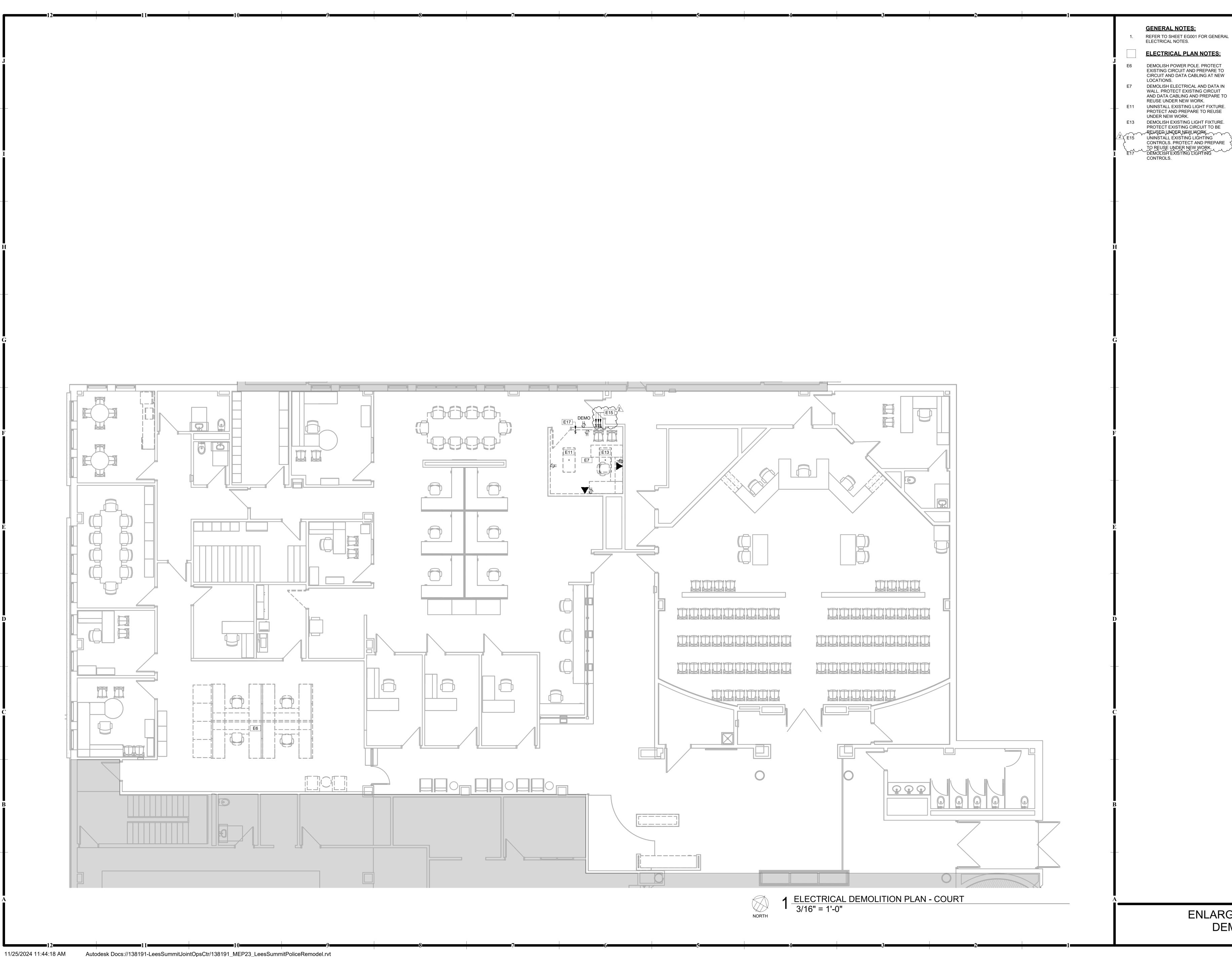
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ENLARGED ELECTRICAL **DEMOLITION PLANS**



GENERAL NOTES:

ELECTRICAL PLAN NOTES: E6 DEMOLISH POWER POLE. PROTECT EXISTING CIRCUIT AND PREPARE TO

CIRCUIT AND DATA CABLING AT NEW E7 DEMOLISH ELECTRICAL AND DATA IN WALL. PROTECT EXISTING CIRCUIT AND DATA CABLING AND PREPARE TO REUSE UNDER NEW WORK.

E11 UNINSTALL EXISTING LIGHT FIXTURE. PROTECT AND PREPARE TO REUSE UNDER NEW WORK.

E13 DEMOLISH EXISTING LIGHT FIXTURE. PROTECT EXISTING CIRCUIT TO BE REUSED UNDER NEW WORK

UNINSTALL EXISTING LIGHTING CONTROLS. PROTECT AND PREPARE TO REUSE UNDER NEW WORK.
DEMOLISH EXISTING LIGHTING

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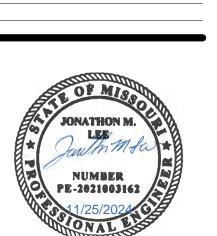
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GENERAL NOTES:

REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES.

ELECTRICAL PLAN NOTES: CONNECT TO EXISTING LIGHTING

CIRCUIT AND CONTROLS. OVERALL LIGHTING POWER IS REDUCED EVEN WITH NEW LIGHTING. PROVIDE POWER FROM SPARE 20A, 1P BREAKER. CIRCUIT SHOWN IS BASED

ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT CIRCUIT AND NOTIFY ENGINEER OF RESULTS. E12 REINSTALL LIGHT FIXTURE PROTECTED DURING DEMOLITION. MAINTAIN EXISTING CIRCUIT AND

CONTROLS. CONNECT NEW LIGHT FIXTURE(S) TO EXISTING LIGHTING CIRCUIT PROTECTED DURING DEMOLITION. E16 REINSTALL LIGHTING CONTROLS

PROTECTED DURING DEMOLITION. MAINTAIN EXISTING CIRCUIT. E19 PROVIDE 4" FIRE-RATED POKE-THRU DEVICE WITH (4) RECEPTACLES, LEGRAND RC4 OR APPROVED EQUAL. PROVIDE BLACK COVER.

E20 WALL MOUNT LIGHT FIXTURE AT +72" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE POWER TO OVERHEAD DOOR OPENER. PROVIDE ROUGH-IN FOR DOOR CONTROLS. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF OPENER WITH VENDOR'S INSTALLATION INSTRUCTIONS. COORDINATE EXACT LOCATION OR CONTROLS WITH

ARCHITECT PRIOR TO ROUGH-IN. E22 PROVIDE POWER FROM EXISTING LIFE SAFETY LIGHTING CIRCUIT IN ADJACENT VEHICLE BAYS. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT CIRCUIT AND NOTIFY ENGINEER OF E23 PROVIDE POWER FROM EXISTING NORMAL LIGHTING CIRCUIT IN ADJACENT VEHICLE BAYS. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT

CIRCUIT AND NOTIFY ENGINEER OF RESULTS. E24 PROVIDE POWER TO DIVISION 23 EQUIPMENT WITH FACTORY MOUNTED DISCONNECT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH **G** E25 PROVIDE POWER TO AIR

> IS BASED ON 3.5HP COMPRESSOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 22 PRIOR TO ROUGH-IN. CONNECT NEW ROOF-MOUNTED EXHAUST FAN TO EXISTING EXHAUST FAN CIRCUIT. EXHAUST FAN IS A ONE-FOR-ONE REPLACEMENT OF EXISTING FAN REMOVED DURING DEMOLITION.

REMOVE EXISTING CAMERA ON EXISTING BUILDING EXTERIOR AND EXTEND CABLING TO THIS LOCATION. NEW CAMERA WILL BE INSTALLED BY REINSTALL POWER TO RELOCATED VACUUM. PROVIDE BOXES, CONDUIT, AND WIRING AS NECESSARY TO EXTEND EXISTING CIRCUIT TO NEW LOCATION.

PROVIDE LEGRAND 2000 SERIES PLUGMOLD OR APPROVED EQUAL. RECEPTACLES SHALL BE SPACED AT 12" O.C. MOUNT ABOVE WORKTOP.

PROVIDE POWER TO FACTORY
INSTALLED RECEPTACLE ON ROOFTOP-

minne

CONSTRUCTION As Noted on Plans Review

Lee's Summit, Missouri

HOEFER WELKER

4622 PENNSYLVANIA AVENUE

KANSAS CITY, MO 64112

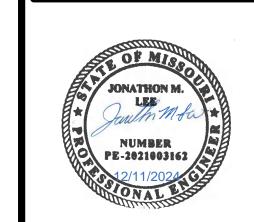
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REVISION DATES: 1 ADDENDUM #1 11/19/2024 2 ADDENDUM #2 11/26/2024 3 ASI 001



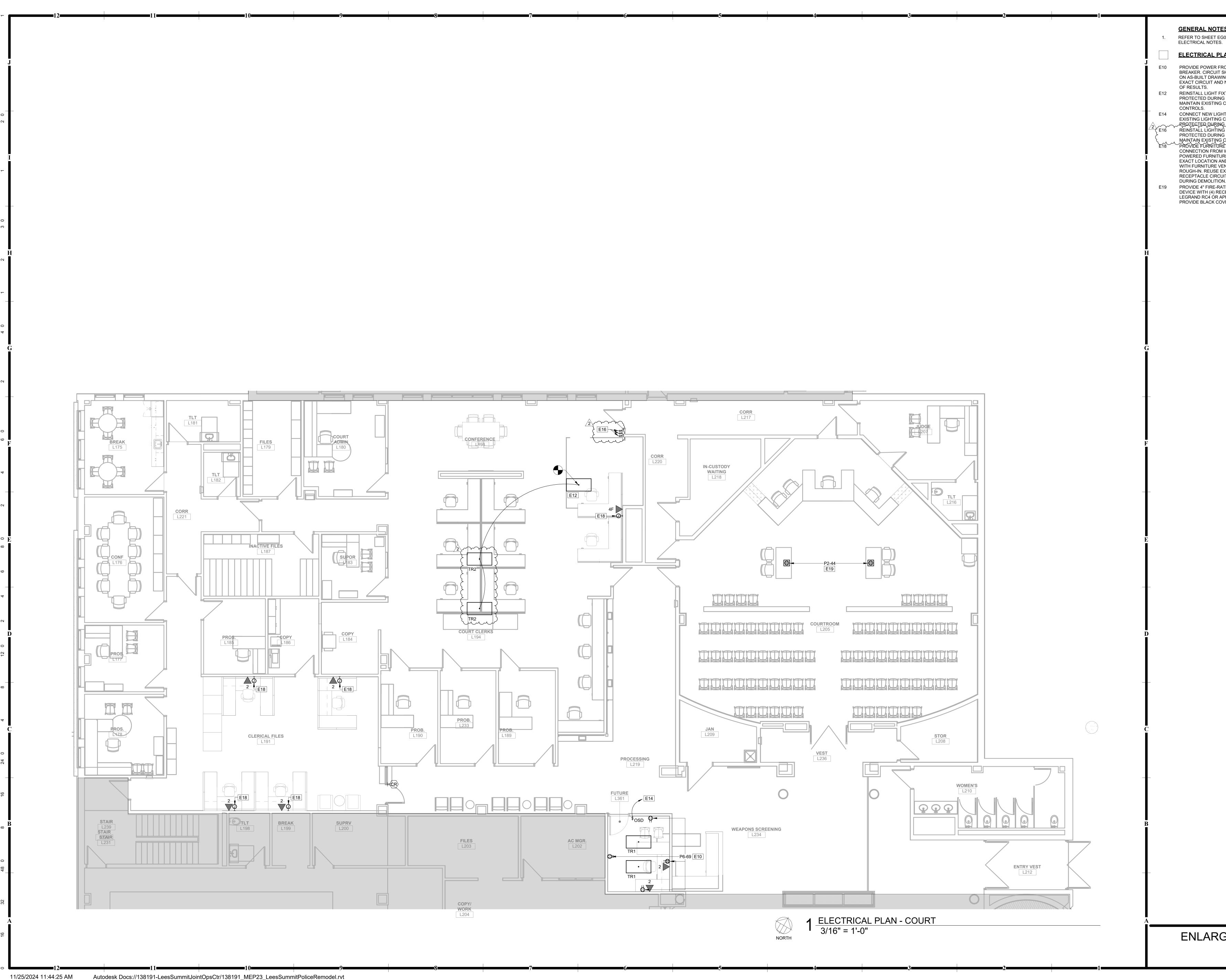
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HOEFER WELKER #: 138191

ENLARGED ELECTRICAL PLANS

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GENERAL NOTES:

REFER TO SHEET EG001 FOR GENERAL

ELECTRICAL PLAN NOTES:

E10 PROVIDE POWER FROM SPARE 20A, 1P BREAKER. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT CIRCUIT AND NOTIFY ENGINEER

E12 REINSTALL LIGHT FIXTURE PROTECTED DURING DEMOLITION. MAINTAIN EXISTING CIRCUIT AND E14 CONNECT NEW LIGHT FIXTURE(S) TO EXISTING LIGHTING CIRCUIT PROTECTED DURING DEMOLITION REINSTALL LIGHTING CONTROLS

PROTECTED DURING DEMOLITION. MAINTAIN EXISTING CIRCUIT. E18 PROVIDE FURNITURE FEED CONNECTION FROM WALL TO NEW POWERED FURNITURE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN. REUSE EXISTING RECEPTACLE CIRCUIT PROTECTED DURING DEMOLITION.

DEVICE WITH (4) RECEPTACLES, PROVIDE BLACK COVER.

PROVIDE 4" FIRE-RATED POKE-THRU LEGRAND RC4 OR APPROVED EQUAL.

CONSTRUCTION
As Noted on Plans Review

Lee's Summit, Missouri 12/16/2024

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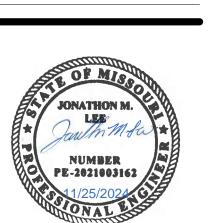
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10 NE LEE'S

REVISION DATES: 2 ADDENDUM #2 11/26/2024



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HOEFER WELKER #: 138191

ENLARGED ELECTRICAL PLANS

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Lee's Summit, Missouri
12/16/2024
HOEFER WELKER PANELBOARD NOTES:
THIS IS A MASTER LIST THAT APPLIES TO ALL PANELBOARDS. NOT ALL NOTES MAY BE USED. AF ARC FAULT CIRCUIT INTERRUPTER (AFCI) BREAKER.

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ROUTE CIRCUIT THROUGH CONTACTOR #.
EMERGENCY LIGHTING HANDLE ON CLAMP.
EXISTING TO REMAIN.
FIRE ALARM CIRCUIT. RED HANDLE, HANDLE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) HT# PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B). # INDICATES GROUPING (I.E. GROUP 1 TOGETHER, ETC.). 1 TOGETHER, ETC.).

LK HANDLE PADLOCKABLE OFF DEVICE.

LO HANDLE ON CLAMP.

NB PROVIDE NEW BREAKER IN EXISTING

PANELBOARD. AIC RATING OF NEW BREAKER

SHALL MATCH THE PANELBOARD AIC RATING.

TB# TANDEM 20A BREAKER. # INDICATES

GROUPING.
REFER TO ONE-LINE DIAGRAM FOR FEEDER INFORMATION.
REUSE EXISTING BREAKER TO SERVE NEW LOAD.
SD SPARE BREAKER AFTER DEMOLITION.

2 ADDENDUM #2 11/26/2024

NUMBER PE-2021003162 PE-2021003162 ONAL

PROFESSIONAL SEAL

ISSUE DATE: NOVEMBER 7,2024
HOEFER WELKER #: 138191

PANELBOARD SCHEDULES

PANELBOARD: LP1											PANELBOARD: P)1									
BUS AMPS: 600 A		AIC	RATING:	14,000 AIC							BUS AMPS: 22			ΔIC	RATING:	IO 000 AIC					
MAIN SIZE/TYPE: MLO		FAULT CL		•							MAIN SIZE/TYPE: M				URRENT: I	•					
VOLTS/PHASE: 480Y/27	77 \/ 3PH 4\M	CUM. VOLT									VOLTS/PHASE: 20		N		T. DROP: I						
SUPPLIED BY: MSB1	7 V, 31 11, 4VV			SURFACE							SUPPLIED BY: NI		/ V		DUNTING: S						
SUPPLIED B1. MODI				ELECTRICAL SWIT	HGEAR						SUPPLIED BY. IN	_D1				ELECTRICAL SWITC	-IGEAR				
		10	oanon.	LLLOTRIO/IL OWIT	7110L7 (11										JOANION.		10L/ (1 t				
Г	WIRE	ND BKR		_			BKR GND WIRE			СКТ	СКТ		WIRE GND BKR			_				ND WIRE	
. DESCRIPTION VAV 1-4	NOTES SIZE S	IZE AMP P 20 1 3000	5 000	В		C	P AMP SIZE SIZE	NOTES EX	DESCRIPTION VAV 2-10	NO.	NO. DESCRIPTION 1 RCPT-STORAGE & EXTERIOR	NOTES EX	S SIZE SIZE AMP	1 1260	900	В		C	P AMP SI	ZE SIZE NO	TES DESCRIPTION RCPT-OFFICES
VAV 1-4 VAV 1-5	EX	20 1 3000	3000	1000 3288			1 20	LX	VAV 2-10	4	3 RCPT-VEHICLE PROCESSING	EX	20	1 1200	900	900 1080			1 20		X RCPT-OFFICES
VAV 1-6	EX	20 1			4000	3288	3 20	EX	VAV 2-9	6	5 RCPT-VEHICLE PROCESSING	EX	20	1			720	1200	1 20	E	EX FURN J BOX - INVEST SO
VAV 1-7	EX	20 1 1500	3288							8	7 RCPT-EXTERIOR	EX	20	1 1080	1200				1 20		FURN J BOX - INVEST SO
VAV 1-8	EX	20 1		3000 2500		2221	1 20	EX	VAV 2-8	10	9 GARAGE DOOR	EX	20	1		1176 1080		4	1 20		X RCPT-SIU CAPTAIN/CLEI
VAV 1-13	EX	20 1	2024		4000	3621		ΕX	VAV 0 47	12	11 GARAGE DOOR	EX	20	1 1170	F40		1176	540	1 20		FURN J BOX - SIU CLERI
VAV 1-14	EX	20 1 2000	3621	6392 3621			3 20	EX	VAV 2-17	16	13 GARAGE DOOR 15 GARAGE DOOR	EX EX	20	1 1176	540	1176 1260		_	1 20		EX FURN J BOX - SIU CLERI EX RCPT-INTERV
VAV 1-15	EX	20 3		0392 3021	6392	3500	1 20	EX	VAV 2-16	18	17 RCPT-EVIDENCE OFFICE/VEST		20	1		1170 1200	900	1200	1 20		EX FURN J BOX - WORK RO
"""		6392	3121		0002	5500	, 20		V/1V 2 /V	20	19 RCPT-EVIDENCE WORKROOM	EX	20	1 720	1200		300	1200	1 20	F	EX FURN J BOX - WORK RO
		0002	5121	6392 3121			3 20	EX	VAV 2-14	22	21 RCPT-FORENSICS/EVIDENCE		20	1	1200	900 1200			1 20	F	X FURN J BOX - WORK RO
VAV 1-12	EX	20 3		0.21	6392	3121	-	_, ,		24	23 RCPT-MECH ROOM COUNTER	EX	20	1		1200	720	1200	1 20	E	X FURN J BOX - WORK RO
		6392	2500				1 20	EX	VAV 2-15	26	25 RCPT-INTERV/COPY ROOM	EX	20	1 1260	1200				1 20	E	EX FURN J BOX - WORK RO
				8885 3000			1 20	EX	VAV 2-13	28	27 RCPT-DRINKING FOUNTAIN	EX	20	1		400 180			1 20	E	RCPT-SIU DET, BREAK F
VAV 1-21	EX	40 3			8885	3621				30	29 RCPT-DARE-CHAPLIN/PLT LT	EX	20	1			1260	864	1 20	E	X RCPT-SIU DET, BREAK F
		8885	3621				3 20	EX	VAV 2-7	32	31 ELEVATOR PIT EQUIPMENT	EX	20	1 400	1100				1 20		X RCP-DRINKING FTN, CLS
				3621 3621		2221				34	33 RCPT-INTERV	EX	20	1		1080 540	1000	4	1 20		X FURN J BOX - CIU CLERI
VAV 1-23	EX	20 3	0004		3621	3621		5 14	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	36	35 RCPT-INTERV	EX	20	1	1000		1080	1080	1 20	E	FURN J BOX - CIU CLERI
VAV 1-24	EX	20 1	3621	3000 3621			3 20	EX	VAV 2-6	38	37 SPARE 39 GARBAGE DISPOSER	EX EX	20 20	1 0	1080	864 180			1 20		X RCPT-CONFERENCE RM X RCPT-DISPATCH CONSC
VAV 1-24 VAV 1-25	EX	20 1		3000 3021	3000	2000	1 20	EX	VAV 2-18	40	41 SPARE	EX	20	1		804 180	0	180	1 20		EX RCPT-DISPATCH CONSC
VAV 1-25 VAV 2-12	EX	20 1 4000	2000		3000	2000	1 20	EX	VAV 2-16 VAV 2-19	42	41 SPARE 43 GARBAGE DISPOSER	EX	20	1 864	180		- 0	100	1 20		X RCPT-DISPATCH CONSC
VAV 2-12	EX	20 1 4000	2000	3000 4000			1 20	EX	VAV 2-13	46	45 GENERATOR BATTERY CHARG		20	1 004	100	1200 180			1 20	F	X RCPT-DISPATCH CONSC
.,,,,		20 1		1000	5000	2400	1 20	EX	LTG-OFFICES	48	47					1200	1000	360	1 20	E	X EXT LGTS - BOLLARDS (
VAV 1-32	EX	30 3 5000	2430				1 20	EX	LTG-CORRIDOR	50	GENERATOR JACKET HEATER	EX	20	1000	760				1 20	E	EXT LGTS - BLDG SIGN,
				5000 2137			1 20	EX	LTG-CLERICAL/BREAK RM	52	51 SUMP PUMP (EXTERIOR)	EX	20	1		1920 720			1 20		EXT LGTS - BOLLARDS S
VAV 1-27	EX	20 1			4000	2560	1 20	EX	LTG-SIU WORKROOM	54	53 COPIER	EX	20				1200	630	1 20		EXT LGTS - FLAGPOLE
		7333	2560				1 20	EX	LTG-CIU WORKROOM	56	55 <i>EF-9 & EF-8</i>	EX	15		360				1 20	E	EXT LGTS - SIGN @ STR
VAV 1-28	EX	40 3		7333 2925			2 20	EX	LTG-EXTERIOR WEST PARKING LOT	58	57 UNDERCABINET LTG-FORENS		20	1		500 200		4	1 20	<u> </u>	X CARBON MONOXIDE SE
1/41/4 20	TV.	00 4 0500	40007		7333	2925	-			60	59 EF-11 & RECIRC PUMP	EX	20	1 500	700		900	1500	1 20	R	RB UH-1 (VEHICLE BAY)
VAV 1-29 VAV 1-31	EX EX	20 1 2500 20 1	10667	3000 10667			3 60 10 4	NB	PWR - VEH BAY RADIANT HTRS	62	61 RCPT-PARAPET WALL 63 SPARE	EX EX	20	1 500	720	0 360			1 20	K	RB RCPT - VEHICLE BAY LO RB RCPT - MAINT L06
LTG-CORRIDOR	EX	20 1		3000 10007	2850	10667	3 60 10 4	ИВ	PWK - VEH BAT KADIANT HTKS	66	65 SPARE	EX	20 20	1		0 300	0	1664	\sim	- N	
LTG-STORAGE AREAS/MECH RM	EX	20 1 2475	3000		2000	10007	1 15	RB	UH-2 (VEHICLE BAY)	68	67 RCPT-COMM RM L250	RB	20	1 1440	1664			1004	2 (20) 2	\	IB PWR - MAINT AIR COMP
LTG-EVIDENCE OFFICES	EX	20 1	0000	2160 5182			1 10		OTT 2 (VERNOLE BY(1)	70	69 SPARE	EX	20	1	1001	0 1440			1 20	R	RB RCPT - CRIME SCENE BA
LTG-GARAGE	EX	20 1		2.00 0.02	2709	5182	3 25 10 10	NB	RTU-1	72	71 PWR-SITE VIDEO BOARD	RB	20	1			1200	1080	1 20	R	RB RCPT - CSB L03 POWER
CUH-2	EX	30 1 5000	5182							74	73 RCPT-VEH BAY PLUGMOLD	RB	20	1 720	1080				1 20	R	RB RCPT - CSB L03 POWER
CUH-3	EX	30 1		5000 2700			1 20	EX	ALTERNATE CKT FOR JAIL LTG	76	75 SPARE	EX	20	1		0 500			1 20	R	RB PWR - VEH BAY DOOR C
CUH-1	EX	30 1			5000	3158	1 20	EX	ALTERNATE CKT FOR JAIL LTG	78	77 SPARE	EX	20	1			0	500	1 20	R	RB PWR - CRIME SCENE OP
SPARE		20 1 0	0				1 20	EX	SPARE	80	79 EQUIPPED SPACE	EX		1	500				1 20	N	IB PWR - CRIME SCENE OP
SPARE		20 1		0 0			1 20	EX	SPARE	82	81 EQUIPPED SPACE	EX				500		4	1 20	N	IB PWR - MAINT DOOR OPE
SPARE		20 1			0	0	1 20	EX	SPARE	84	83 EQUIPPED SPACE	EX							1	E	EX EQUIPPED SPACE
			08 VA	108165 VA		45 VA							TOTAL LO		374 VA	19536 VA	_	154 VA			
		OTAL AMPS: 39	3 A	390 A		8 A							TOTAL AM		02 A	163 A		88 A			
	LO	AD BALANCE: -0.9	97%	-1.54%	2.8	80%							LOAD BALAN	CE : 11	.17%	-10.54%	3.	.29%			
CONI	N. DEMAND ESTI	MATED										CONN. DEM	AND ESTIMATED								
CONTROL LOAD		MAND PANELBOARD	SENERAL	NOTES:					PANELBOARD TOTALS		LOAD CLASSIFICATION	LOAD FAC		NELBOARD	GENERAL	PANELBOARD TO					
TING 28618		185 VA A. WIRE AND GROU			THERWISE NO	OTED.				29719 VA	HEATING					HALL BE #12 UNLESS O	THERWISE N	NOTED.			TOTAL CONN. I
TING 33989		486 VA		5_		- · - - ·				88216 VA	LIGHTING		5.00% 4163 VA			0.1.2.00 0		 -		-	TOTAL EST. DEMAND I
		233 VA							TOTAL CONN. CURRENT:	397 A	MOTORS		0.00% 4103 VA 0.00% 6432 VA							-	TOTAL CONN. CURI
																				-	
EQUIP 5312	2 VA 100.00% 5	312 VA							TOTAL EST. DEMAND CURRENT:	407 A			2.57% 24892 VA								TOTAL EST. DEMAND CUR
								1		1	18 811 27 2 1 7 31 111 3	12210 1/1 100	0.00% 13318 VA								
											MISC EQUIP SIGNAGE		5.00% 1500 VA								

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