

CHEROKEE NATION ENTERPRISES, INC.

CATOOSA, OKLAHOMA

CHEROKEE CATOOSA SMOKE SHOP

ISSUE DATE: 07/07/2020 REVISED ISSUE DATE: 09/14/2020

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MP101 MECHANICAL AND PLUMBING PLANS

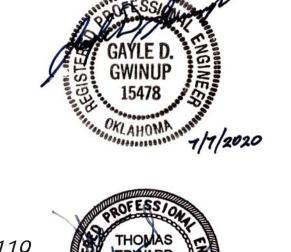
E001 ELECTRICAL GENERAL NOTES AND SCHEDULES

E101 LIGHTING AND POWER PLANS

CONSULTING ENGINEER AND MEP CONSTRUCTION MANAGER

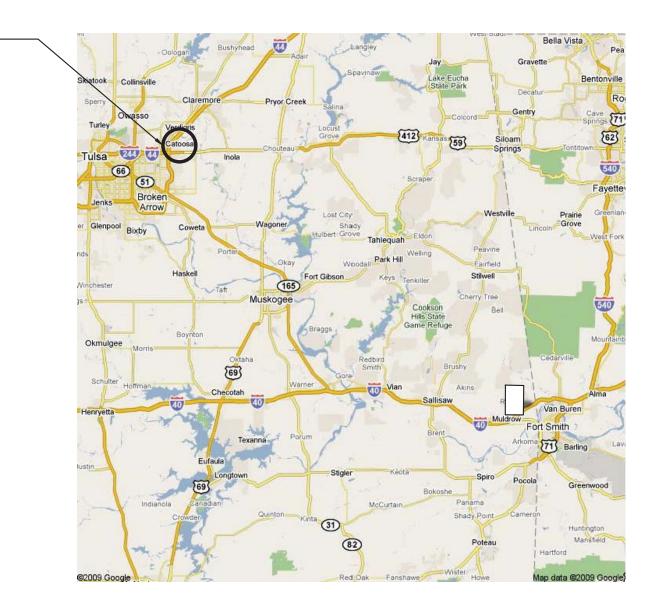


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SITE MAP

LOCATION

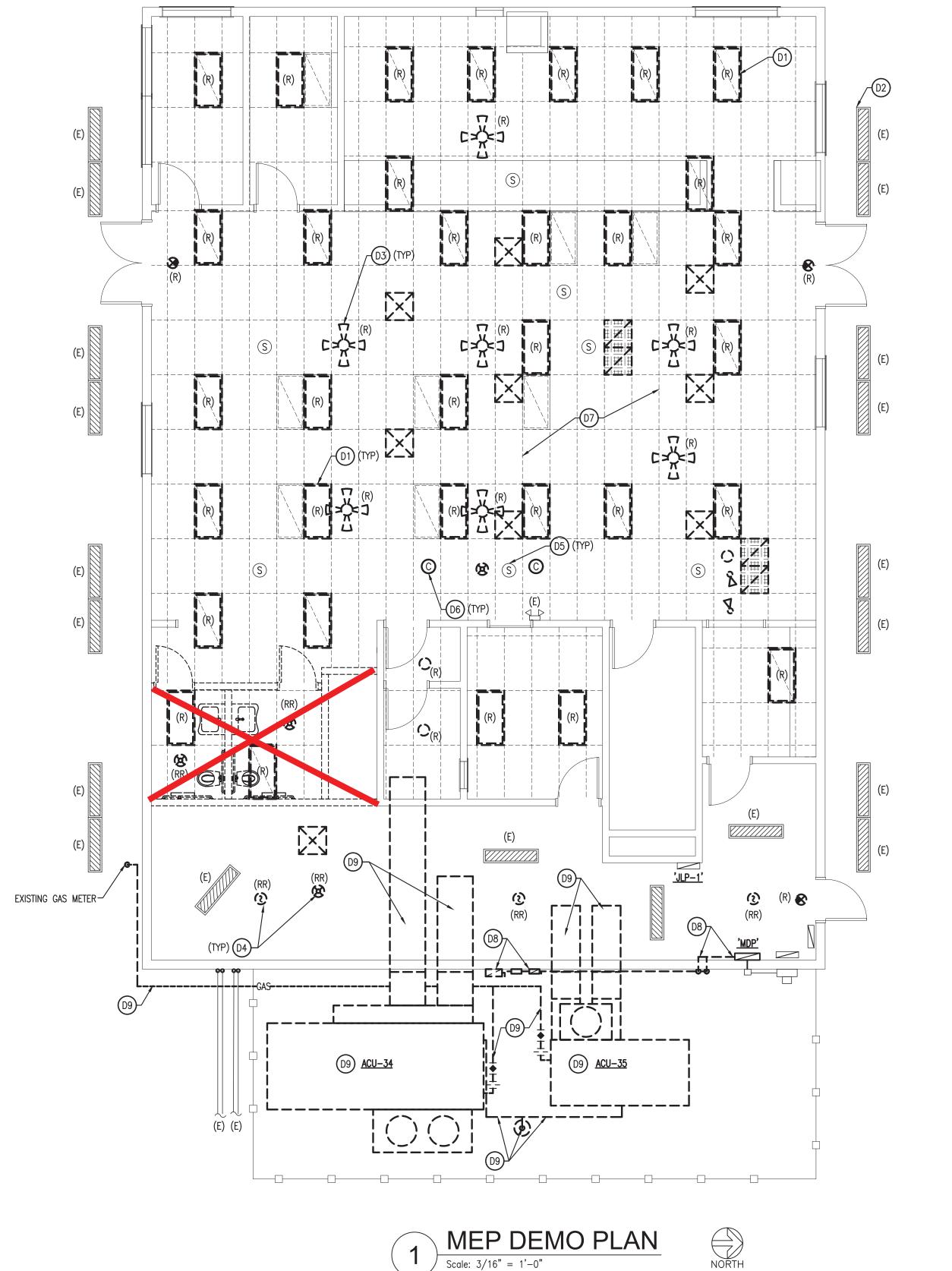


PLUMBING DEMOLITION KEYNOTES: (PDX)

PD1. REMOVE EXISTING WATER SERVICE TO BUILDING PLANET WATER PIPING FROM TOILET FIX. URES TO WATER LASER.

PD2. REMOVE AND STORE EXISTING THE FATER.

BY OWNER



TO METER. REMOVE A BRANCH

PD3. REMOVE PLUMBING LIXIURES FROM TOILET GROUP REMOVE VENT PIPING FROM FIXTURES TO VTR CAP AT VTR FOR CONNECTION IN NEW WORK, CAP SANITARY AT WATER CLOSETS. PPT ARE TO CONNECT DRAINS FROM LAVATORIES IN NEW WORK, REPAIR SLAB AS DIPLOTED BY OWNER. REMOVE ALL WATER PIPE BACK TO MAIN.

DEMOLITION KEYNOTES: (DX)

mmmmmm D1. REPLACE LIGHTING WITH NEW. TRACE CIRCUIT AND MODIFY GAMING LIGHTING FOR DIMMING CONTROL IN NEW WORK. (TYP)

D2. MODIFY EXISTING FIXTURE TO ACCEPT NEW LED TUBES TO MATCH EXISTING LUMENS AND IP65 RATING. (TYP)

D3. REMOVE SMOKE CONTROL FANS AND CIRCUIT BACK TO SOURCE (TYP).

D4. REMOVE AND STORE EXISTING FIRE ALARM DETECTION AND NOTIFICATION APPLIANCES TO BE REINSTALLED IN NEW WORK PER OWNER IN ORIGINAL LOCATIONS.

D5. REMOVE AND STORE EXISTING SPEAKERS TO BE REINSTALLED IN NEW WORK BY

D6. REMOVE AND STORE EXISTING SURVEILLANCE CAMERAS TO BE REINSTALLED IN NEW WORK BY OWNER.

D7. FIELD VERIFY AND DOCUMENT LOCATIONS OF FIRE ALARM, SURVEILLANCE, AND SPEAKER LOCATIONS IN GRID TO BE REINSTALLED. SUBMIT COPY OF AS-BUILT TO ARCHITECT AND OWNER'S PROJECT MANAGER. AFTER SUBMISSION OF AS-BUILT, REMOVE AND STORE EXISTING CEILING TILES AND GRID TO BE REINSTALLED IN NEW WORK.

200A/3P AND 100A/3P DISCONNECTS, RACEWAYS AND PANELBOARD CIRCUIT BREAKER TO BE REPLACED IN NEW WORK.

D9. CONTRACTOR SHALL REMOVE ALL EXISTING HVAC SYSTEMS EQUIPMENT SERVING BUILDING. REMOVE ALL ASSOCIATED DUCTWORK, HANGER, CONDENSATE AND CONTROL SYSTEMS. PATCH AND REPAIR ANY EXTERIOR OR INTERIOR WALLS AS DIRECTED BY OWNER. COORDINATE WITH PLUMBING CONTRACTOR TO REMOVE GAS SERVICE PIPING FROM UNIT BACK TO METER. COORDINATE WITH ELECTRICAL CONTRACTOR FOR REMOVAL OF POWER.



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vision Date	Revision

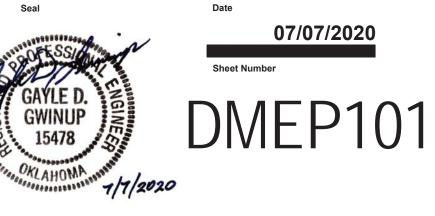


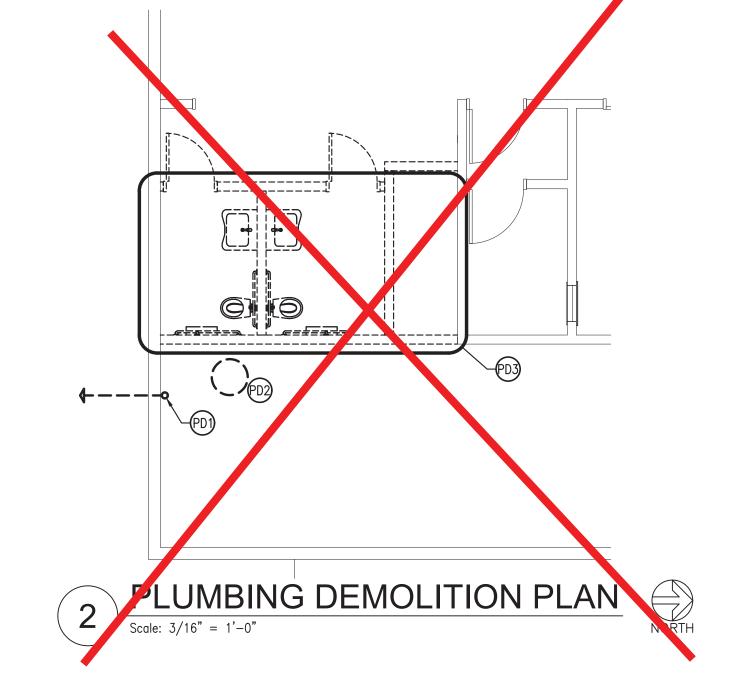
CHEROKEE CATOOSA SMOKE SHOP

MEP **DEMOLITION PLAN**

Drawn DMS,DSP	Project Number
Checked GDG,TEM	
Reviewed GDG,TEM	









OF OKLAK 9/10/2020

Cherokee Nation Enterprises Catoosa Smoke Shop Toilet Modifications

ALL REPRODUCIBLE MATERIAL HERE—IN CONSTITUTE ORIGINAL WORK OF STARR DESIGN GROUP, INC. AND MAY NOT BE REPRODUCED, TRANSFERRED, OR MODIFIED IN ANY MEDIUM WITH — OUT THE EXPRESS WRITTEN CONSENT OF STARR DESIGN GROUP, INC.

EILINGS. PAINT COLOR: OFF-WHITE, SEMI GLOSS SI SEN. NEW FINISHES AT GAMING AREA, RETAIL AREA, BREAKROOM,

LOOR FINISH.

FLOORS: 36"x36" CARPET TILE PROVIDED BY OWNER,

REFER MEP DRAWINGS FOR POWER, LIGHTING, PLUMBING

SCHEDULE OF FINISHES

AND HVAC REQUIREMENTS.

USHES AT NEW TOILET ROOMS:

FLOORS. POLYCRETE MDB, COLOR DARK G

SH BASE MATCHING

WALLS: FULL HEIGHT & TRAM TILE - EQUIV. TO DAL-TILE FABRIQUE 4x12 STACKED A TTERN; COLOR NOIR LINEN P689.
GROUT COLOR EQUIVATO MAPA #10 BLACK. SEAL ALL

ROOMS (a) 8'-0" HIGH, ALL OTHER AREAS TO BL EXISTING

TED GYPSUM BOARDS CEILINS AT TOILET

WALL BASE: RUBBER BASE PROVIDED BY OWNER INSTALLED

ROOM IDENTIFICATION SIGN, REFER SIGNAGE SCHEDULE

24"x36" FRAMED MIRROR EQUIVALENT TO: BRADLEY MODEL #780

SENSOR ACTIVATED SOAP DISPENSER EQUIVALENT TO: BRADLEY MODEL 6A01-11

PAPER TOWEL DISPENSER NOT USED

SENSOR ACTIVATED COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE EQUIVALENT TO: BRADLEY MODEL #2A25

URINAL SCREEN MATCH METAL TOILET PARTITION

7) STAINLESS STEEL TOILET PARTITION EQUIV. TO BRADLEY SERIES 700 FLOOR AND CEILING BRACED

EQUIVALENT TO: BRADLEY MODEL #812 DUAL ROLL TOILET PAPER DISPENSER, SURFACE

MOUNTED EQUIVALENT TO: BRADLEY MODEL #5A10 SANITARY NAPKIN DISPOSAL

EQUIVALENT TO: BRADLEY #4A10

3'x7' HOLLOW METAL DOOR IN HM FULLY WELDED FRAME w/ PUSH PLATE, PULL LEVER, CLOSER, AND KICK PLATE. HARDWARE FINISH TO BE BRUSHED

ALL NEW WALLS TO BE 3 5/8" MTL. STUDS AT 16" O.C. w/ 5/8" WATER RESISTANT GYPSUM BOARD EA. SIDE. w/ 3 1/2" UNFACED BATT INSULATION. EXTEND WALLS TO ROOF FRAMING OR 6" MIN. ABOVE ADJ. CEILINGS. PROVIDE PLYWOOD BLOCKING IN WALLS AT TOILET ACCESSORY LOCATIONS.

TYPICAL MOUNTING HEIGHTS

SIDE WALL OF STANDARD

TOILET COMPARTMENT

SIDE WALL ACCESSIBLE TOILET

COMPARTMENT

5'-0" CLEAR

6

<u>URINAL</u>

FRONT VIEW

BACK WALL ACCESSIBLE TOILET

COMPARTMENT

BREAKROOM X REMOVE EXISTING FLOORING, WALL BASE, AND CEILING AT GAMING AREA, RETAIL AREA, BREAKROOM, AND OFFICE AND PREP FOR NEW FLOOR AND CEILING FINISHES GAM<u>ING A</u>REA COORDINATE ALL WORK WITH OWNER — AREA TO DEMOLISH NO WORK NO WORK NO WORK NO WORK - EXISTING WATER

© BRAILLE →

LATCH SIDE

OF DOOR -

INTERIOR

SIGNAGE

SAC

WALL-HUNG LAVATORY,

MIRROR AND SOAP

- INSULATE

PIPING @

HANDICAP LAVATORY

TOILET ROOM

ACCESSORIES

PROVIDE NEW FLOORING, WALL BASE, AND CEILING AT GAMING AREA, RETAIL AREA, BREAKROOM, AND OFFICE AS SCHEDULED. GAM<u>ING A</u>REA COORDINATE ALL WORK WITH OWNER NO WORK NO WORK NO WORK - REFER PLUMBING PLAN FOR PLUMBING FIXTURES - ADD WALL FURRING AT EXISTING WATER SUPPLY

AND OFFICE:

WALL BASE: 4"

BACK WALL OF STANDARD

TOILET COMPARTMENT

INSTALLED BY CONTRACTOR.

BY CONTRACTOR.

WALLS: EXISTING

CEILING: 15/16" WHITE 2x2 SUSPENDED CEILING GRID w/ ACOUSTICAL PANELS EQUAL TO ARMSTRONG CALLA TEGULAR EDGE, NRC=>0.85.

FLOOR PLAN

DEMOLITION PLAN

Sheet Number: A101

Sheet Title:

FLOOR PLAN

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WOMEN

TYPE W - 1 THUS

MEN

TYPE M - 1 THUS

SIGNAGE SCHEDULE

PLUMBING FIXTURE SCHEDULE **FIXTURE** MANUFACTURER CARRIER PIPING CONNECTIONS (IN) REMARKS/ACC SSORIES MARK COLOR MODEL # TRAP SOIL VENT | CW I OPTIMA 111 ES-S TMO FV, EL-154 **FLOOR** WATER CLOSE ELONGATED BOWL (1-1/4) XFMR(OPERATE o FLUSH VALVES), BEMIS 9500SSCT SEAT, WHITE INTEGRAL K-4406 FEN FRONT W/SS CHECK HINGE 28 GPF, SLOAN ROYAL OPTIMA 111 ES-S TMO FV, EL-154 WATER CLOSE ELONGATED BOWL (2) (1-1/4)KOHLER WC-1F XFMR(OPERATE 8 FLUSH VALVES), BEMIS 9500SSCT SEAT, WHITE K-4405 INTEGRAL WHITE OPEN FRONT W/SS CHECK HINGE KOHLER ZURN Z-1222 URINAL WASHOUT UR-1H 0.5 GPF, SLOAN ROYAL 186-0.5 FV, TOP SPUD WHITE FV,ADA,W.H. K-4991-ET INTEGRAL T&S BRASS B-2711-VF05 FAUCET, OFFSET TAILPIECE, GRID LAVATORY 20x18 KOHLER ZURN Z12 STRAINER CP SUPPLIES W/ WHEEL HANDLE STOPS, MIXING WHITE WALL MOUNT K-2867 1-1/4 3/8 ₩ALVE WATTS LFUSG-B. FAUCET W/INTEGRAL STOPS, BUCKET HOOK, 3/4" HOSE THREAD END, MOP SERVICE BASIN 24x24x10 FLOOR (2) (1/2)VACUUM BRL 15R 832-AA HOSE & WALL BRACKET, 36" HOSE, E-88-AA 1/2 1/2 BUMPERGUARD, MSG2 24 SS WALL GUARD. MOLDED TERRAZZO WHITE -2424 " DEEP SEAL FLOOR DRAIN ZURN **FLOOR** 6" STRAINE ADJUSTIBLE TOP, SEDIMENT BUCKLI, TRAP GUARD FD-1 Z-415-B-Y DEEP SEAL C. STD.

NOTES:

EQUIPMENT TO BE PROVIDED WITH ADDITIONAL REINFORCING IN WALL CONSTRUCTION.

AND SINK SUPPLIES TO BE CHROME PLATED WITH STOP VALVES. KTE HANDICAP ACCESSIBLE LAVATORY TAILPIECE, WASTE P—TRAP, HOT WATER SUPPLY, AND COLD WATER SUPPLY WITH TRU—BRO MODEL 102 & 105.

			GR	RILLE, REGIST	ER AND) DIFF	USER S	SCHE	DULE		
	MARK	SERVICE	MANUFACTURER	STYLE	MODEL NO.	MATERIAL	MOUNTING	FACE	NECK SIZE	FINISH	NOTES
	Α	SUPPLY	TITUS	SQUARE STEP FACED	TMS	STEEL	LAY-IN	24x24	PER PLAN	WHITE	1,2,3,5
	В	RETURN	TITUS	1/2x1/2x1/2 EGG CRATE	50F	STEEL	LAY-IN	24x24	22x22	WHITE	1,2,3,4,5,6
	С	SUPPLY	TITUS	SQUARE STEP FACED	TMS	STEEL	LAY-IN	24x24	PER PLAN	WHITE	1,2,3,5,7
П	NATEO										

- 1. COORDINATE LOCATION OF AIR DEVICES WITH CEILING GRID, LIGHT LOCATIONS, STRUCTURAL MEMBERS AND ARCH. FEATURES.
- 2. FINAL FINISH OF AIR DEVICES SHALL BE VERIFIED WITH ARCHITECT'S FINISH AND PAINT SCHEDULE. PROVIDE PLENUM FOR DUCT CONNECTION OR SQUARE TO ROUND NECK, AS REQUIRED.
- 4. PAINT DUCT INTERIOR FLAT BLACK BEHIND AIR DEVICE.
- 5. PROVIDE OPPOSED BLADE DAMPER.
- PROVIDE WITHOUT SCREW HOLES. '. PROVIDE FULL FACE 24"x24" PANEL

	MINI SP	LIT SYS	ГЕМ (OUTD(OOR	UNIT	SCI	HEDU	JLE			
MARK			COOLING	HEATING CAPACITY		ELECTRICAL DATA			WEIGHT	T		
(OUTDOOR UNIT)	MANUFACTURER	MODEL NO.	(MBH)	(MBH)	EER	VOLTAGE	MCA	MOCP	(LBS)	NOTES	ACCESSORIES	
HPU-1	LENNOX	VRB072H4M3Y	72.0	81.0	14.8	208/3/60	39	45	760	1,2,3	B,E,F	
HPU-2	HPU-2 LENNOX MLA012S4S 12.0 12.0 12.5 208/1/60 9 15 100 1,2,3,4 A,B,C,F								A,B,C,F			
2. REFER TO PROJEC 3. HEATING CAPACITIE												

NOTES: 1. COOLING CAPACITY LISTED IS NOMINAL CAPACITY. 2. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL FEATURES AND REQUIREMENTS. 3. HEATING CAPACITIES ARE BASED ON 47'F 0.A., 70°F EAT AT INDOOR FOU. AT 100% CAPACITY INTERLOCK OPERATION WITH INDOOR FCU'S, INDOOR UNIT POWERED BY OUTDOOR HEAT PUMP UNIT.

	MINI	SPLIT S'	YSTI	EM F	AN C	OIL U	JNIT	SCH	IEDULE	
MARK (INDOOR UNIT)	MANUFACTURER	MODEL NO.	CFM	NOMINAL COOLING (MBH)	NOMINAL HEATING (MBH)	ELECTR VOLTAGE	MCA	WT. (LBS.)	NOTES	ACCESSORIES
FC-1	LENNOX	V22B012H4	359	12	13	208/1/60	0.53	61	1,2,4,5	A,B,D,E
FC-2	LENNOX	V22B012H4	359	12	13	208/1/60	0.53	61	1,2,4,5	A,B,D,E
FC-3	LENNOX	V22B009H4	282	9	10	208/1/60	0.38	61	1,2,4,6	A,B,D,E
FC-4	LENNOX	V22B007H4	230	7	8	208/1/60	0.38	61	1,2,4,7	A,B,D,E
FC-5	LENNOX	V22B007H4	230	7	8	208/1/60	0.38	61	1,2,4,7	A,B,D,E
FC-6	LENNOX	V22B009H4	282	9	10	208/1/60	0.38	61	1,2,4,7	A,B,D,E
FC-7	LENNOX	V22B009H4	230	9	10	208/1/60	0.38	61	1,2,4,6	A,B,D,E
FC-8	LENNOX	V22B009H4	230	9	10	208/1/60	0.38	61	1,2,4,7	A,B,D,E
FC-9	LENNOX	M22A012S4	310	12	12	208/1/60	_	36	1,2,3,4,6	A,B,C,D,E

- . COOLING CAPACITIES ARE BASED ON UNIT CFM SUPPLY AIR AND 80°F, EDB/67°F, EWB, WITH 95°F AIR ENTERING AT 100% CAPACITY CONDENSER. EER IS BASED ON ARI CONDITIONS.
- R410A REFRIGERANT.
- 3. POWERED FROM OUTDOOR HPU.
- 4. HEATING CAPACITY LISTED BASED ON 47°F O.A., 70° EAT.
- 5. FAN CFM LISTED IS FOR HI SETTING. 6. FAN CFM LISTED IS FOR MEDIUM SETTING. 7. FAN CFM LISTED IS FOR LOW SETTING.

- **ACCESSORIES:**
- A. FILTERS. (CLEANABLE) B. ELECTRONIC EXPANSION VALVE.
- C. INTERLOCK OPERATION WITH OUTDOOR HEAT PUMP UNIT. D. HARD WIRED, WALL-MOUNTED CONTROLLER.
- E. CONDENSATE PUMP. F. SUPCO MODEL SLP2565 PRESSURE SENSOR LOCATED AT INDOOR UNIT.
- G. REFER TO PLAN FOR FILTER RETURN GRILLE.

V8M5BB10 MADE SELECTION BOX

GAS PIPING GENERAL NOTES:

- . WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION.
- FURNISH AND INSTALL INDIVIDUAL GAS SHUT-OFF VALVE AND UNION AT EACH GAS FIRED APPLIANCE AND BUILDING PENETRATION THRU ROOF OR EXTERIOR WALLS.
- GAS SHUT OFF VALVE SHALL BE FULL SIZE OF REQUIRED EQUIPMENT BRANCH RUNOUT PIPE SIZE BASED ON GAS PRESSURE AND FURTHERMOST PIPE DISTANCE FROM GAS METER OR POINT OF PRESSURE REDUCTION. RUNOUT PIPE SHALL NOT BE REDUCED TO EQUIPMENT CONNECTION PIPE SIZE UNTIL IMMEDIATELY AHEAD OF CONNECTION TO EQUIPMENT. VALVES SHALL NOT BE LOCATED ABOVE CEILINGS.
- D. BRANCH GAS PIPING SHALL BE CONNECTED TO THE TOP OR SIDE OF HORIZONTAL
- E. INSTALL GAS PIPING AT UNIFORM GRADE OF 0.1 PERCENT SLOPE UPWARD TOWARDS
- USE ECCENTRIC REDUCERS TO MAKE REDUCTIONS IN PIPE SIZES IN HORIZONTAL
- PIPING. INSTALL FITTINGS WITH LEVEL SIDE ON BOTTOM OF PIPING. G. INSTALL PIPING SO AS TO ALLOW FOR SERVICE AND MAINTENANCE OF EQUIPMENT
- H. OPEN ENDS OF GAS PIPING SHALL BE CAPPED DURING CONSTRUCTION TO PREVENT INTRODUCTION OF FOREIGN MATERIALS. VALVE AND PIPING OUTLETS SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND LEFT CLOSED UNTIL FINAL CONNECTION TO EQUIPMENT.
- DIVISION 22 CONTRACTOR SHALL WIRE BRUSH AND PAINT ALL GAS PIPE AND ACCESSORIES EXPOSED TO WEATHER. PAINT COLOR TO BE PER OWNER DIRECTION, UNLESS SPECIFICALLY DICTATED BY LOCAL CODE.
- LOCATE PIPING SUPPORTS AWAY FROM PIPE JOINTS TO ALLOW FREE MOVEMENT OF PIPING WITHOUT INTERFERENCE OF PIPE SUPPORTS
- THE CONTRACTOR IS TO VERIFY THE FINAL LOCATION OF THE GAS SERVICE METER AND/OR PRESSURE REDUCING STATION AND ADJUST THE GAS PIPE SIZES INDICATED FOR THE TOTAL SYSTEM LENGTH IF DIFFERENT FROM THE DISTANCE LISTED OR SHOWN ON THE DRAWINGS. DRAWINGS INDICATING THE SYSTEM REVISIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- COORDINATE INSTALLATION OF GAS SERVICE METER AND PRESSURE REGULATING STATIONS WITH THE GAS UTILITY COMPANY. PROVIDE ALL VALVES AND PIPING ARRANGEMENT FOR INSTALLATION OF THE SERVICE GAS METER AND PRESSURE REGULATING EQUIPMENT AS DIRECTED BY THE GAS UTILITY COMPANY.
- M. PLASTIC GAS SERVICE PIPE SHALL BE INSTALLED WITH AN INSULATED COPPER TRACE WIRE NO LESS THAN 18 GAUGE LOCATED ADJACENT TO THE TOP OF THE PIPING. THE COPPER TRACE WIRE SHALL EXTEND TO GRADE AND TERMINATE AT EACH END OF THE PLASTIC SERVICE PIPING. A CONTINUOUS PLASTIC BANNER LABELED "CAUTION — GAS PIPING" SHALL BE INSTALLED 12 INCHES ABOVE ALL BURIED GAS PIPING.
- N. TRANSITION RISER FROM PLASTIC SERVICE PIPING TO BLACK STEEL BUILDING PIPING IS TO BE MADE BELOW GRADE. BLACK STEEL PIPING EXTENDING BELOW GRADE SHALL BE FURNISHED WITH FACTORY APPLIED CORROSION RESISTANT POLYETHYLENE COATING. PROVIDE ANODE FOR CATHODTIC PROTECTION.
- NUMBER CAS SERVICE UNDERGROUND PIPING RISES THROUGH PAVING OR CONCRETE SURFACES, PROVIDE PIPE SLEEVE TWO PIPE SIZES LARGER THAN INSTALLED PIPING. EXTEND SLEEVE A MINIMUM OF 1 INCH ABOVE FINISHED SURFACE AND DEEPER THAN DEPTH OF PAVING OR CONCRETE. FILL SLEEVE VOID WITH SMALL, ROUNDED, WASHED
- . EACH ABOVE GROUND PORTION OF METAL PIPING GAS SYSTEM UPSTREAM OF EQUIPMENT SHUT-OFF VALVES SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO GROUNDING ELECTRODE PER NFPA 70 AND NFPA 54.

PLUMBING SYMBOL LEGEND

		SANITARY	SEWER (ABOVE FINISHED FLOOR)					
		DOMESTIC	DOMESTIC COLD WATER (C)						
		DOMESTIC	DOMESTIC HOT WATER (H)						
 	-	DOMESTIC	DOMESTIC HOT WATER RETURN (HR)						
		PLUMBIN	PLUMBING VENT						
c — EL	BOW DOW	١	M	ANGLE VALVE					
s− TE	TEE DOWN			BALL VALVE					
← EL	BOW UP		tZ	CHECK VALVE					
─ TE	E UP		₩	SHUT-OFF VALVE IN VERTICAL					
E— CA	√P		1 1	UNION					
FCO FL	FLOOR CLEANOUT			FLOOR DRAIN					
→ WCO WA	→ WCO WALL CLEANOUT			VENT THROUGH ROOF					
TW	/IN CLEANO	DUT							
				·					

MANUFACTURER

COOK

COOK

H.V.A.C. GENERAL NOTES:

- A. WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION.
- B. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH CODE REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, ADHERING TO REQUIRED CLEARANCES FOR OPERATION AND SERVICING
- ELECTRICAL REQUIREMENTS OF FURNISHED AND INSTALLED MECHANICAL EQUIPMENT AND SYSTEM COMPONENTS SHALL BE PROVIDED IN WRITING BY THE MECHANICAL CONTRACTOR TO THE ELECTRICAL CONTRACTOR FOR INCLUSION AND COORDINATION OF ELECTRICAL WORK.
- D. PROVIDE FLEXIBLE DUCT CONNECTION TO EXHAUST FANS AND FURNACES.
- DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE PER MOST RECENT SMACNA STANDARDS FOR PRESSURE AND DUCT DIMENSION OF SYSTEM INSTALLATION. ALL DUCT JOINTS SHALL BE SEALED AS NOTED IN THE SPECIFICATIONS.
- F. DUCT SIZES SHOWN ON DRAWING ARE INSIDE CLEAR.
- MAKE TRANSITION FROM DUCTWORK SIZES SHOWN ON THE DRAWINGS TO EQUIPMENT DUCT CONNECTION SIZES. VERIFY EQUIPMENT CONNECTION SIZES WITH FACTORY CERTIFIED DRAWINGS. MAKE ALL TRANSITIONS PER MOST RECENT SMACNA STANDARDS.
- H. TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR 90 DEGREE ELBOWS IN SUPPLY, RETURN AND EXHAUST DUCTWORK, AND AS INDICATED ON THE DRAWINGS.
- USE MINIMUM LENGTH FLEXIBLE DUCT TO AIR DEVICES, (MAXIMUM 8 FT.). USE FLEX DUCT ONLY IN FULLY ACCESSIBLE CEILING SPACES. PROVIDE 90 DEGREE SHEET METAL ELBOW AT CEILING DIFFUSER NECK CONNECTION. PROVIDE SADDLE UNDER FLEXIBLE DUCT HANGER TO SUPPORT DUCT AND PREVENT "PINCHING" OF DUCTWORK. FLEXIBLE DUCT SHALL BE INSTALLED SO AS NOT TO REDUCE CROSS SECTION AREA OF DUCT.
- WHERE DUCT RUNOUTS FROM SECTIONS OF MAIN DUCTWORK TO DIFFUSERS ARE UNEQUAL IN EQUIVALENT LENGTH AND RESULT IN SIGNIFICANT DIFFERENCES IN PRESSURE DROP WHICH REQUIRE PINCHING TAKEOFF DAMPER OR DAMPER AT GRILLE FACE, ADDITIONAL FLEXIBLE DUCT AND/OR ADDITIONAL CHANGES IN DIRECTION SHALL BE INSTALLED IN RUNOUT DUCT WITH LEAST PRESSURE DROP TO BRING DUCTS TO EQUIVALENT PRESSURE LOSSES.
- WHERE DUCT TAKE-OFFS TO GRILLES ARE NEAR THE UNIT AND RESULT IN PRESSURI DROPS SIGNIFICANTLY LESS THAN THE FURTHERMOST DIFFUSER BRANCH, THE RUNOUT DUCT SIZE TO THE GRILLE SHALL BE REDUCED FROM THE SCHEDULED RUNOUT SIZE TO INCREASE THE PRESSURE DROP AND PREVENT THE NEED TO "PINCH" THE DAMPER AT THE TAKE-OFF AND/OR GRILLE FACE.
- THE CONTRACTOR SHALL COORDINATE ROUTING AND SIZE OF DUCTWORK WITH ACTUAL FINAL BUILDING CONDITIONS OF STRUCTURE SIZE AND LOCATION, LIGHT LOCATIONS. ARCHITECTURAL FEATURES, AND WORK OF OTHER TRADES. WHERE DUCT SIZES MUST BE REVISED FROM THOSE SHOWN ON THE DRAWINGS, MAINTAIN SAME CROSS ECTIONAL AREA, VELOCITY, AND PRESSURE DROP. WHEN NECESSARY, REROUTE DUCT TO CLEAR OBSTRUCTIONS WITH MINIMUM NUMBER OF FITTINGS AND ELEVATION CHANGES. WHERE DUCT MUST BE SIGNIFICANTLY ALTERED FROM THAT SHOWN ON THE DRAWINGS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING.
- I. MECHANICAL CONTRACTOR SHALL PROVIDE TEST AND BALANCE OF HVAC SYSTEMS.
 TEST AND BALANCE SHALL BE PERFORMED AND REPORTED AS DESCRIBED BY NEBB
 OR AABC. FILTERS SHALL BE NEW AND CLEAN, DUCTWORK CLEAN, AND EQUIPMENT
 CONTROLS AND DEVICES FULLY FUNCTIONAL AT THE TIME OF PERFORMING BALANCE
- MAINTAIN MINIMUM 10'-0" CLEAR BETWEEN ANY FLUE, VENT OR TOILET EXHAUST AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL DISTANCE CANNOT BE PROVIDED, EXTEND FLUE VENTS 3'-0" ABOVE OUTSIDE AIR INTAKE.
- SMOKE DETECTORS SHALL BE REQUIRED IN ALL HVAC UNITS WITH 2000 CFM AND GREATER CAPACITY. SMOKE DETECTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 25. DIVIS INSTALL DETECTORS IN RETURN AIR. PROVIDE REMOTE INDICATOR AND TEST STATION WHERE UNITS ARE NOT READILY VISIBLE FOR INSPECTION.
- INSTALL ALL MOTOR DRIVEN EQUIPMENT WITH VIBRATION ISOLATORS AND OR PADS TO REDUCE NOISE TRANSFER. TYPE AND METHOD OF ISOLATION SHALL BE IN CONFORMANCE WITH THOSE DESCRIBED IN THE SPECIFICATIONS FOR THE DUTY, TYPE, AND APPLICATION OF THE EQUIPMENT.
- Q. ALL EQUIPMENT SHALL BE PERMANENTLY LABELED WITH SIGNAGE SECURED TO
- R. CONDENSATE PIPING SHALL BE AS NOTED ON THE DRAWING, BUT IN NO CASE LESS
- ROUTE CONDENSATE PIPING TO APPROVED DISCHARGE LOCATION. PROVIDE CONDENSATE TRAP WITH CLEANOUTS AND VENT ON DISCHARGE SIDE OF TRAP FOR ALL UNITS WITH COOLING COILS. TRAP DEPTH SHALL BE A MINIMUM OF THE UNIT TOTAL PRESSURE
- CONDENSATE PIPING INSTALLED WITHIN THE BUILDING SHALL BE FULLY INSULATED AND PROVIDED WITH VAPOR JACKET.

PLUMBING GENERAL NOTES:

- A. WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION.
- B. VERIFY LOCATION AND SIZE OF ALL EXISTING PLUMBING SERVICES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.
- ESTABLISH LOCATION AND SIZE OF UTILITY SERVICES PRIOR TO BUILDING ROUGH—IN. COORDINATE LOCATION OF BUILDING SERVICE ENTRANCES AND SYSTEM PIPE ROUTING WITH UTILITY SERVICE MAINS ON SITE AND SITE FEATURES AND CONDITIONS.
 - VERIFY FLOW LINE INVERTS OF BUILDING MAIN SEWER EXIT(S) REQUIRED FROM FURTHERMOST BRANCH LINE AND SITE SEWER TIE—IN LOCATION INVERT PRIOR TO

GENERAL LAYOUT SHOWN ON DRAWINGS IN ALL CASES EXCEPT WHERE OTHER WORK

- BEGINNING BUILDING ROUGH-IN. NOTIFY ARCHITECT IF ADEQUATE FALL BETWEEN BUILDING AND SEWER CONNECTION CANNOT BE ACHIEVED. LAY OUT THE PLUMBING SYSTEM IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATION FOR ALL COMPONENTS OF THE SYSTEM. FOLLOW THE
- INSTALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS, DOORS
- G. LAY OUT PIPES TO FALL WITHIN PARTITIONS OR CHASES. DO NOT REQUIRE FURRING OTHER THAN THOSE SHOWN ON THE DRAWINGS.
- DO NOT INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS. WHERE BUILDING DESIGN FORCES INSTALLATION OF PIPING IN EXTERIOR WALLS, INSTALL PIPING ON ROOM SIDE OF EXTERIOR WALL INSULATION AND INCREASE PIPE INSULATION
 THICKNESS REQUIRED TO NEXT STANDARD THICKNESS WITH A MINIMUM THICKNESS OF 1-1/2 INCHES.
 - NO FIXTURE TRAP SHALL BE INSTALLED INSIDE EXTERIOR WALLS.
- MAKE CHANGES IN PIPE SIZE NOTED ON THE PLANS AFTER LAST FITTING OF LARGER PIPE. WHEN SUPPLY PIPES ARE LARGER THAN EQUIPMENT TAPINGS, REDUCE SIZE
- K. MAKE CHANGES IN DIRECTION WITH MANUFACTURED STANDARD PIPE FITTINGS.
- L. CAP ALL PIPE OPENINGS DURING CONSTRUCTION.
- M. LABEL PIPING TO IDENTIFY SYSTEM TYPE AND DUTY.
- N. COORDINATE LOCATION AND METHOD OF ATTACHMENT OF HANGERS AND SUPPORTS FOR PIPING SYSTEM TO BUILDING STRUCTURE WITH THE OWNER. ESTABLISH PROPOSED LOCATIONS OF SYSTEM PIPE ANCHORS AND OBTAIN APPROVAL FROM THE OWNER.
- SLEEVE PIPING THROUGH EXTERIOR WALLS AND ON GRADE SLAB FLOORS. ANNULAR SPACE BETWEEN PIPE AND SLEEVE SHALL BE CAULKED AND SEALED. EXTEND SLEEVES A MINIMUM OF 2 INCH ABOVE FLOOR PENETRATIONS IN POTENTIALLY WET AREAS SUCH AS MECHANICAL AND EQUIPMENT ROOMS.
- DOMESTIC WATER PIPING SHALL BE INSTALLED TO SLOPE TO DRAIN POINTS. WHERE CONDITIONS DICTATE TRAPPED SECTION OF PIPING, A DRAIN VALVE OR CAPPED TEE SHALL BE INSTALLED TO FACILITATE DRAINING OF THE TRAPPED SECTION OF PIPING.
- Q. THOROUGHLY FLUSH DOMESTIC WATER PIPING. SCREENED OUTLETS SHALL BE REMOVED DURING FLUSHING PROCESS AND REINSTALLED AT COMPLETION.
- R. INSULATE ALL DOMESTIC HOT, AND COLD WATER PIPING.
- S. COPPER AND PLASTIC PIPING INSTALLED IN STUD WALLS SHALL BE PROTECTED WITH MINIMUM 1/16 INCH SHIELD PLATES EXTENDING BEYOND THE PIPE IN ALL DIRECTIONS.
- INSTALL SHUT-OFF VALVES IN HOT WATER AND COLD WATER LINES AHEAD OF CONNECTIONS TO ALL PLUMBING FIXTURES & EQUIPMENT.
- REVIEW CONNECTION REQUIREMENTS OF ACTUAL EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. (THIS INCLUDES EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR, ANY OTHER DIVISION WORK, OR THE OWNER.) ADJUST ROUGH-IN TO MEET INSTALLATION
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONED LOCATIONS OF PLUMBING FIXTURES. FIXTURES DESIGNATED FOR HANDICAP USE SHALL BE INSTALLED TO MEET MOST CURRENT APPLICABLE ADA AND/OR ANSI REQUIREMENTS FOR INSTALLATION CLEARANCE AND ACCESS.
- FLOOR DRAINS AND CLEANOUTS SHALL BE FURNISHED WITH TOP AND TRIM COMPATIBLE WITH FLOOR COVERING MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH ALTERNATES AFFECTING FLOOR DRAIN AND CLEANOUT TRIM
- X. ALL FLOOR DRAINS TO HAVE A MINIMUM WATER SEAL OF 3 INCHES.
- Y. SLOPE FLOOR TO DRAIN AS NOTED ON THE ARCHITECTURAL DRAWINGS. FLOOR DRAINS SHALL NOT BE INSTALLED WITH "DUCK NEST" AROUND DRAIN.
- Z. PROVIDE FUNNEL RECEPTOR FOR FLOOR DRAINS WHERE REQUIRED TO PREVENT SPILLAGE FROM INDIRECT WASTE LINES.
- AA. FLOOR CLEANOUTS SHALL BE LOCATED A MINIMUM OF 18 INCHES CLEAR FROM WALLS AND OBSTRUCTIONS TO SERVICE. AB. LOCATE CLEANOUTS AT CHANGES OF DIRECTION AND NO MORE THAN 50-FT. O/C.
- INSIDE THE BUILDING. PROVIDE ADDITIONAL CLEANOUTS AS NOTED AND/OR REQUIRED TO FULLY CLEAN AND SERVICE PIPING SYSTEMS.
- AC. INSTALL A CLEANOUT AT THE FOOT OF EACH SINK WASTE STACK. AD. PROVIDE ACCESS DOORS FOR ALL INACCESSIBLE VALVES AND CLEANOUTS.
- AE. COORDINATE LOCATION OF TERMINATION OF VENT PIPING WITH OTHER TRADES AND ARCHITECTURAL FEATURES AND CONDITIONS. MAINTAIN REQUIRED CLEARANCES TO OUTSIDE AIR INTAKES, WINDOWS, ETC. AS REQUIRED BY LOCALLY ACCEPTED CODE.
- AF. RUN ALL DRAIN LINES FROM EQUIPMENT OVERFLOW RECEIVERS, ETC. TO FLOOR/ HUB DRAINS. DRAIN LINES SHALL BE HARD DRAWN COPPER INSTALLED WITH MINIMUM 1/8 INCH PER FOOT SLOPE SECURED BY GUIDES AND SUPPORTS FOR PIPE SIZE SHOWN. NO DRAIN LINE TO BE SMALLER THAN 3/4 INCH. INSTALL TEE AT EACH ELBOW OF CONDENSATE DRAIN WITH CLEANOUT PLUG ON BLIND TEE.

	ME(CHANICAL SYMB	OL	LEGEND
Ш	\boxtimes	SUPPLY DIFFUSER, 4-WAY THROW		RETURN GRILLE
		EXHAUST GRILLE OR FAN	\bigcirc	THERMOSTAT
Ш	<u>(</u>	FLEX DUCT RUNOUT	(S)	SENSOR
П	ф	DUCT TRANSITION (ONE LINE)	∇	DOOR UNDERCUT
Ш	1	RUNOUT BALANCE DAMPER		
		MANUAL DAMPER		
	Q	OPPOSED BLADE DAMPER, MOTORIZED		

ROOF TOP LINIT SCHEDLILE

ACCESSORIES:
GBD-GRAVITY BACKDRAFT DAMPER
MBD-MOTORIZED BACKDRAFT DAMPER
BS BIRD SCREEN BACKDRAFT DAMPER
WCESSORIES:
GT-GREASE TRAP WITH ABSORBENT MATERIAL VCB-VENTED ROOF CURB NFPA COMPLIANT

VOLTAGE

120/1/60

	NOOL TOL ONLI SCHEDOLE																								
				COOLING	CAPACITY	HEATING	CAPACITY		ENERGY I	RECOVERY			OUTSIDE	TOTAL E.S.P.	FAN	EER		ELE(CTRICAL	DATA			WEIGHT		
MAF	K AREA SERVED	MANUFACTURER	MODEL NO.	1	SENSIBLE	INPUŢ	OUTPUT	C00	LING	HEAT	TING	CFM	AIK	E.S.P. (IWG)			VOLTAGE	MCA	COMP	0.F.	Į.F.	POWER	WITH CURB	NOTES	ACCESSORIES
				(MBH)	(MBH)	(MBH)	(MBH)	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	SENSIBLE MBH		(CFM)	(IWG)	(,	(,	VOLIAGE	IWI.O.A.	(RLA)	(FLA)	(FLA)	EXHAUST	(LBS)		
RTU	-1 FLOOR	MODINE	MPR30CE1A1AEU14N2JNDNNNN	342	206	300	243	212	137	473	367	7000	7000	1.0	5	12.7	208/3/60	195.2	111.6	16.5	33.4	16.7	6,870	3,5,6,7	A,E,F,I,J,K,L,M,O,P,R,W

EXHAUST FAN SCHEDULE

MODEL NO.

GC-520

GC-422

ALUMINUM GRILLE

WALL SWITCH.
BUILDING MANAGEMENT SYSTEM
INTERLOCK WITH KITCHEN HOOD.
INTERLOCK WITH DISHWASHER.

E.S.P. MAX SONES H.P. (WATTS)

0.5 | 1500 | 4.5 |

4.6

(106)

BS-BIRD SCREEN
CB-CURB REFER TO DWG. FOR SIZE.
DS-DISCONNECT SERVICE
RH-ROOF HOOD WITH BIRD SCREEN.

- REFER TO PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL FEATURES AND REQUIREMENTS. PROVIDE BACNET CARD FACTORY INSTALLED.

 2. EXISTING UNIT TO REMAIN.
- 3. R410A REFRIGERANT.
- 4. INSTALL NEW RTU ON EXISTING CURB. PROVIDE CURB ADAPTER/EXTENSION MATCHING NEW RTU WITH EXISTING CURB.
 5. COOLING CAPACITIES ARE BASED ON UNIT CFM SUPPLY AIR AND 80°F,
- EDB/67°F, EWB, WITH 105°F AIR ENTERING CONDENSER. EER IS BASED ON STED ON SCHEDULE ARE NOMINAL, REFERENCE DRAWINGS FOR SPACE CFM REQUIREMENTS.
 7. ALL ROOM TEMPERATURE SENSOR WIRING IS TO HAVE 10 CONDUCTORS.
 REFERENCE ELECTRICAL SPECIFICATIONS FOR CONDUCTOR REQUIREMENTS.
- . FACTORY 24" ROOF CURB TO MATCH SPECIFIED UNIT. . OWNER PROVIDED CO SENSOR.

LOCATION

WOMENS

MENS

NOTES:

1. TIMER CONTROLLED.
2. SWITCH WITH LIGHTS.
3. SPEED CONTROL SWITCH MANUFACTURER 9
PROVIDED AND INSTALL AT UNIT.
CONTROL WALL SWITCH.

MARK

EF-2

- LOW AMBIENT KIT (COOLING AVAILABLE DOWN TO 0°F.)
 FACTORY INSTALLED BAROMETRIC RELIEF DAMPER.
 FACTORY PROVIDED THERMOSTAT AND HUMIDISTAT.
 STAINLESS STEEL HEAT EXCHANGER.
 OWNER PROVIDED ROOM TEMPERATURE, CARBON DIOXIDE.
- I. FACTORY OR FIELD SUPPLIED HAIL CUARD.
 J. ADDRESSABLE SMOKE DETECTOR, WITH ADDRESSABLE RELAY MODULE AND SAMPLING TUBE COMPATABLE WITH EXISTING CAMPUS FIRE ALARM.
 K. TIME DELAY.
- . OUTSIDE AIR MOTORIZED DAMPER (DAMPER SHALL GO TO FULL CLOSED POSITION WHEN INDOOR FAN

L. OUTSIDE AIR MOTORIZED DAMPER (DAMPER SHALL GO TO FULL CLOSED POSITION WHEN INDOOR F/SHUTS DOWN).

M. POWERED EXHAUST.
N. SUPCO MODEL SLP0530 PRESSURE SENSOR.
O. CONDENSATE OVERFLOW SENSOR.
P. TIE DOWN CLIPS.
R. CONDENSER REHEAT.
S. CARBON MONOXIDE SENSOR.
T. 3—POSITION OUTSIDE AIR AND RETURN AIR MIXING DAMPER. POSITION CONTROLLED BY BMS FOR OCCUPANCY SCHEDULE.
W. BACKNET CARDS

2,3,6,7

2,3,6,7

CEILING

CEILING

ACCESSORIES

GBD,CB,RH

GBD,CB,RH



Tulsa, Oklahoma 74119-3445

CA 3995 EXP. 06/30/2021

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Revision Date

Project Title

CHEROKEE CATOOSA **SMOKE SHOP**

MECHANICAL AND PLUMING GENERAL **NOTES AND SCHEDULES**

Project Number DMS,DSP Checked GDG,TEM Reviewed GDG,TEM



Sheet Number

07/07/2020

PLUMBING KEYNOTES: (PX)

mmmmmm. P1. INSTALL NEW 2 INCH WATER SERVICE FROM METER TO BUILDING. INSTALL SLEEVE FOR WATER PIPING PASSING THROUGH FOOTINGS AND SLAB. EXTEND SLEEVE UP THROUGH SLAB 2 INCHES. SEAL SPACE BETWEEN SLEEVE AND PIPING WITH WATERPROOF CAULKING. PIPE SIZED FOR APPROXIMATELY 48 GPM AT 60 PSI. IF INCOMING PRESSURE EXCEEDS 80 PSI, PROVIDE REDUCING VALVE AND SET TO 60 PSI.

P2. INSTALL SHUT-OFF VALVE AT 18 INCHES ABOVE FINISHED FLOOR. INSTALL 3/4" THREADED VALVE AT 24" ABOVE FINISHED FLOOR FOR BUILDING DRAIN. INSTALL LOCKING ACCESS PANEL AT VALVE LOCATION.

P3. INSTALL EXISTING WATER HEATER ON SHELF ABOVE MOP SINK. ROUTE P&T TO MOP

P4. CONNECT NEW WASTE PIPING TO EXISTING AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL ROD OUT EXISTING SEWER LINE.

P5. CONNECT NEW VENT PIPING TO EXISTING VTR AT THIS APPROXIMATE LOCATION. VERIFY EXISTING VTR IS A MINIMUM 3 INCH.

P6. INDICATES AREA OF SLAB CUTS. SLAB HAS BEEN IDENTIFIED BY OWNER TO BE POST TENSION. REPAIR SLAB AS DIRECTED BY OWNER.

P7. ALL EXTERIOR CLEANOUTS SHALL BE INSTALLED IN CONCRETE FLUSH WITH FINISHED GRADE. CONCRETE SHALL EXTEND A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AND A MINIMUM OF 6 INCHES DEEP.

P8. EXTEND SEWER TO EXISTING BUILDING SEWER. CONTRACTOR SHALL VERIFY EXACT LOCATION AND INVERT OF EXISTING SEWER. INVERT OF NEW SEWER IS APPROXIMATELY 1.8' BELOW FINISHED FLOOR. VERIFY EXISTING SEWER TO BE CONNECTED TO IS A MINIMUM 4 INCH AND INVERT CAN BE OBTAINED. NOTIFY OWNER IF SIZE OR INVERT CANNOT BE

P9. EXTEND 1/2 COLD WATER LINE FOR CONNECTION TO DRINK STATION. INSTALL SHUT-OFF VALVE AT CAP.

P10. NATURAL GAS SERVICE TO BUILDING. PIPE SIZE BASED ON 0.5 PSI AND A DISTANCE OF 150 FEET, AND A CONNECTED LOAD OF 300 MBH. NOTIFY ENGINEER IF PRESSURE OR FINAL EQUIVALENT LENGTH IS DIFFERENT. COORDINATE WITH SERVICE PROVIDER FOR EXISTING GAS METER ABILITY TO PROVIDE SERVICE WITH INCREASED DEMAND.

	RUN OUT	SCHEDULE
	CFM	DUCT SIZE
	50 - 75	5"ø
	75 – 115	6 " ø
	115 – 160	7 " ø
	161 - 220	8 " ø
	221 - 290	9 " ø
	291 - 490	10 " ø
- 1	491 - 700	12 " ø

MECHANICAL KEYNOTES: (MX)

M1. UNDERCUT DOOR MINIMUM 1 INCH.

M2. ALL BALANCE DAMPERS SHALL HAVE A MINIMUM 2 INCH STAND-OFF HANDLE. M3. COORDINATE FINAL LOCATION OF ALL AIR DEVICES WITH LIGHTS, GRID AND ALL OTHER

ARCHITECTURAL AND SECURITY FEATURES. M4. INSTALL THERMOSTAT AT 48 INCHES ABOVE FINISHED FLOOR. COORDINATE FINAL

LOCATION OF THERMOSTAT WITH OWNER AND LAYOUT OF ALL ELECTRONIC GAMES. PROVIDE

LOCKING COVER FOR THERMOSTAT. M5. ALL CONDENSATE PIPING SHALL BE FULLY INSULATED WITH A VAPOR BARRIER JACKET.

M7. INSTALL CEILING MOUNTED FAN COIL. ALL CONDENSATE PIPE SHALL BE FULLY INSULATED WITH A VAPOR BARRIER TYPE OF INSULATION. COORDINATE FINAL LOCATION OF ALL FAN COILS WITH LIGHTS, GRID AND ALL OTHER ARCHITECTURAL AND SECURITY

M6. TAP TOP OF MAIN CONDENSATE DRAIN FOR ALL BRANCH LINES.

M8. INSTALL HVAC EQUIPMENT ON REINFORCED CONCRETE PAD. PAD SHALL EXTEND A MINIMUM OF 6 INCHES IN ALL DIRECTIONS OF CONDENSER. PAD SHALL EXTEND A MINIMUM OF 4 INCHES ABOVE FINISHED GRADE. INSTALL CONDENSERS PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR SERVICE AND AIR FLOW.

MECHANICAL KEYNOTES: (MX)

M9. ALL EXTERIOR DUCTWORK SHALL BE PRE MANUFACTURED DOUBLE WALL DUCTWORK. INSIDE AND OUTSIDE LAYERS OF DUCT SHALL HAVE SNAP LOCK SEAMS. INSIDE DUCT SHALL BE FORMED TO FOLD OVER DUCT INSULATION AND CONNECT TO DUCT MATE FLANGE THAT IS ATTACHED TO OUTER DUCT, INSULATION BETWEEN DUCTS SHALL BE 2 INCH. 3 POUND DUCT LINER. ALL EXTERIOR DUCT TO BE CONSTRUCTED PER LATEST SMACNA'S STANDARD.

M10. PROVIDE SUPPORTS FOR ALL EXTERIOR DUCTWORK. SUPPORTS SHALL BE ANGLE OR CHANNEL IRON ON REINFORCED CONCRETE PADS. SPACE SUPPORTS AS DIRECTED IN SPECIFICATIONS FOR HUNG DUCTWORK.

M11. ALL DUCT PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE FLASHED AND COUNTERFLASHED. INSTALL DRIP LEDGE EXTENDING A MINIMUM OF 6 INCHES ON BOTH SIDES OF DUCT PENETRATION. RE: 5/MP101.

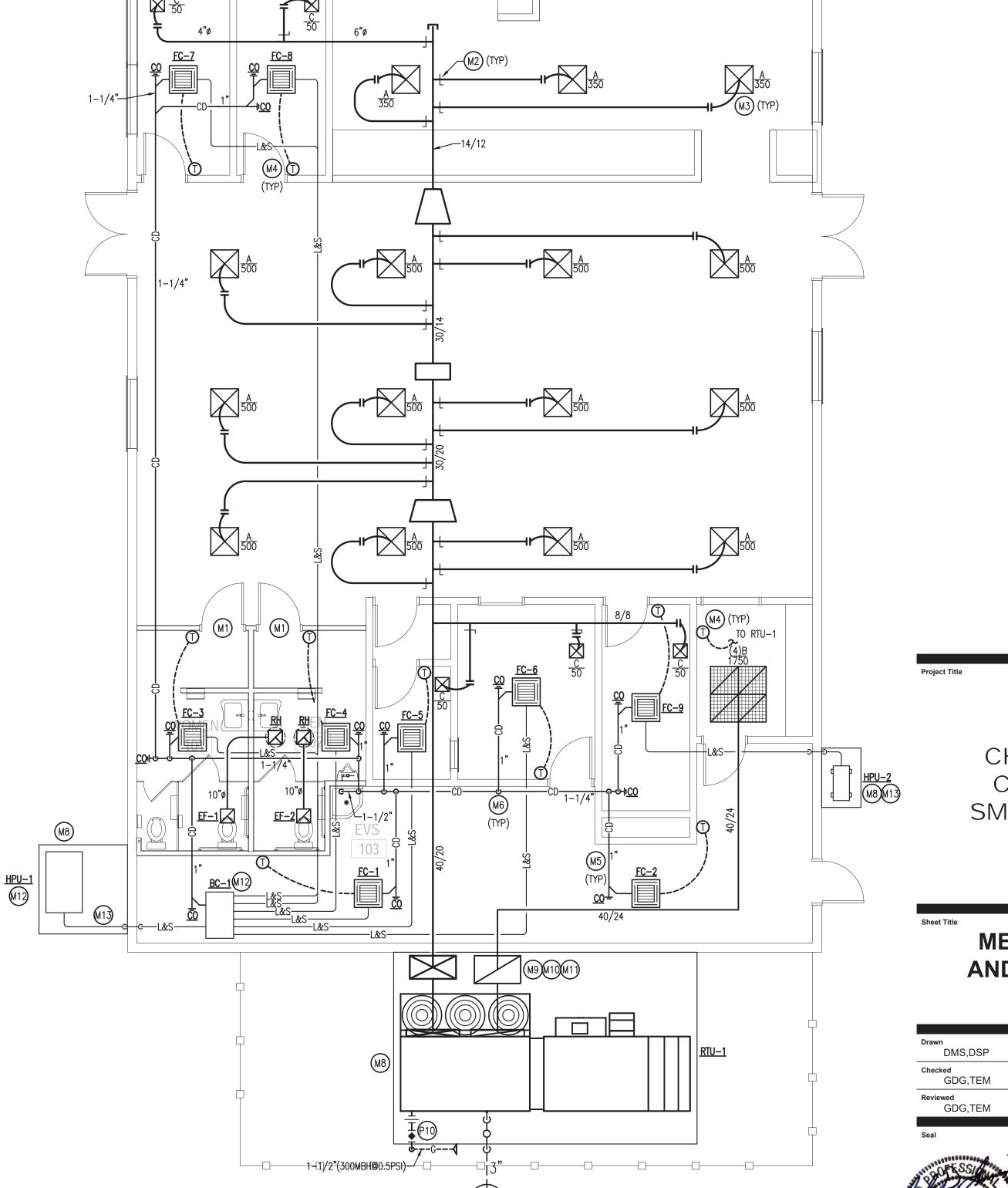
M12. INSTALL MODE SELECTION BOX ABOVE CEILING. INSTALL PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR PERFORMANCE, AIRFLOWS AND SERVICE. INSTALL BALL VALVES FOR EXTRA PORTS.

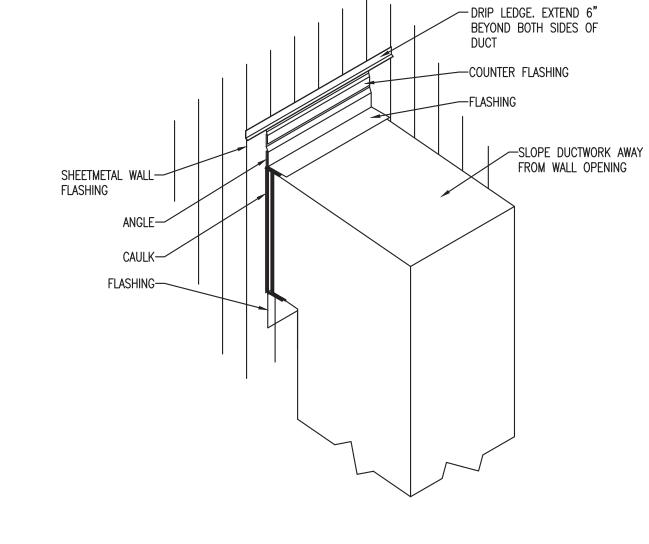
M13. ROUTE REFRIGERANT LINES LOW TO EXTERIOR WALL. RISE UP WALL AND PENETRATE THROUGH EXTERIOR WALL AT 18 INCHES ABOVE FINISHED FLOOR. INSTALL SLEEVE AT WALL PENETRATION. SEAL SPACE BETWEEN SLEEVE AND REFRIGERANT PIPING WITH WATER PROOF CAULKING. INSTALL ESCUTCHEON PLATE ON EXTERIOR WALL. PROVIDE GRAVEL BED FOR ROUTING OF REFRIGERANT LINES. SUPPORT REFRIGERANT LINES ABOVE GRAVEL WITH TREATED 4x4 LUMBER AND STRAPPING. SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR FINAL INSTALLED EQUIVALENT LENGTH.



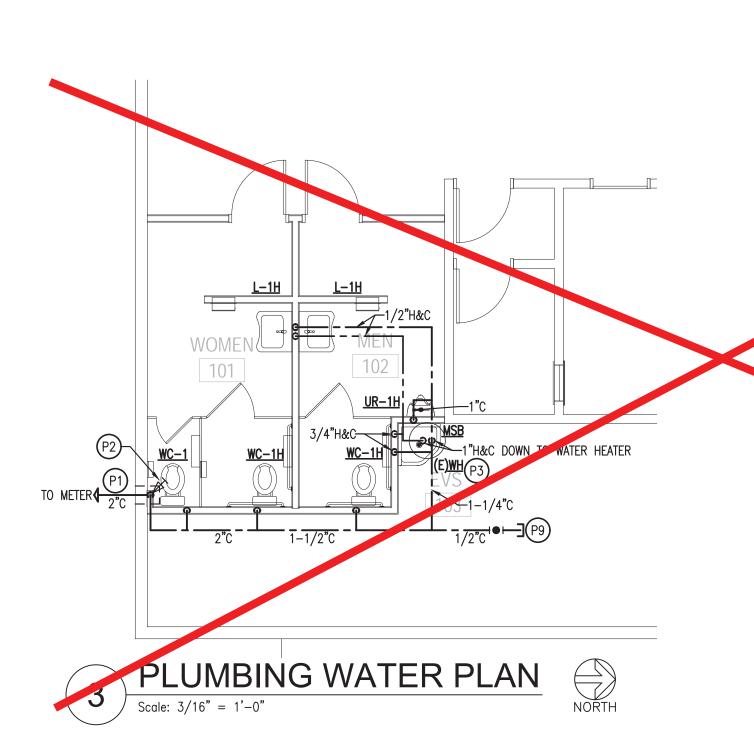
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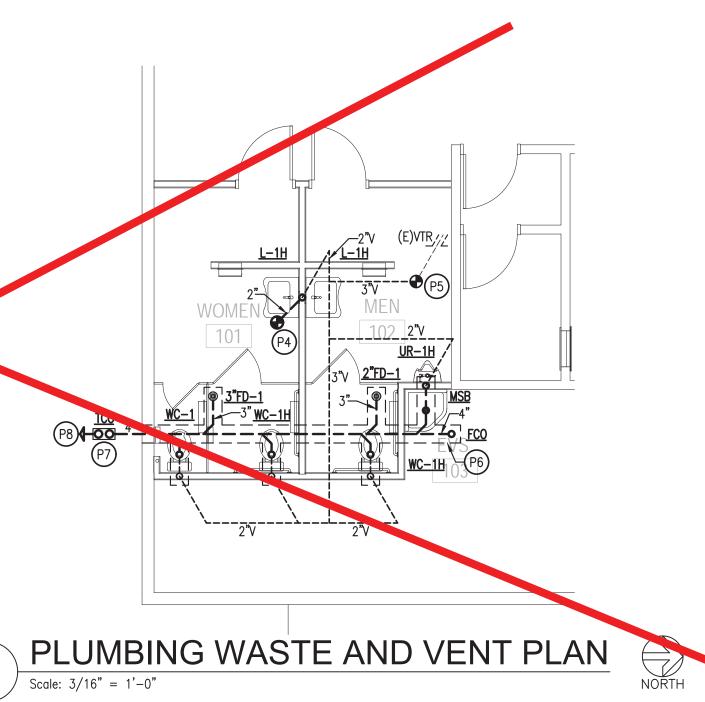
Revision Date	Revision





Scale: NTS





MECHANICAL AND GAS PLAN

Scale: 3/16" = 1'-0"

MP101

DMS,DSP

CHEROKEE

CATOOSA

SMOKE SHOP

MECHANICAL

AND PLUMBING

PLANS

	ELECTRICAL SY	MBC)L LEGEND		DEVICE SUBSCRIPT
Φ	SIMPLEX RECEPTACLE	\$	SWITCH	, ,	
Ф	DUPLEX RECEPTACLE	\$2	2 POLE SWITCH	'a' AFF	LOWER CASE LETTER INDICATES DEVICE CONTROL ARRANGEMENT ABOVE FINISHED FLOOR
0	DUPLEX RECEPTACLE W/GFCI	\$3	THREE WAY SWITCH	AFG A/C	ABOVE FINISHED GRADE HVAC
•	EMERGENCY CIRCUIT DUPLEX RECEPT	\$4	FOUR WAY SWITCH	APL AF	APPLIANCE AMP FUSE
*	QUAD RECEPTACLE	\$м	MOTOR RATED SWITCH	AT BTC	AMP TRIP BRANCH TO CONNECTION
	SPECIAL RECEPTACLE	2	NON-FUSED DISCONNECT	C*	CONTROL POINT IDENTIFIER (*INDICATES CONTROL NUMBER)
[•]	CEILING MOUNTED DUPLEX RECEPT	D	FUSED DISCONNECT	CKT CT	CIRCUIT
	CEILING MOUNTED SPECIAL RECEPT		MANUAL TRANSFER SWITCH (S.E.R.)	CTL DR	CONTROL DUPLEX RECEPTACLE
	208V RECEPTACLE	/M/	моток	(E)	EXISTING EMERGENCY CIRCUIT
T	TELEPHONE/DATA COMBINATION	<u> </u>	JUNCTION BOX	EM EQ	ITEM INSTALLED IN EQUIPMENT
	TELEPHONE	©	CARBON MONOXIDE DETECTOR	FACP FL	FIRE ALARM CONTROL PANEL ITEM INSTALLED IN FLUSH IN FLOOR
	UNDERGROUND CONDUIT	0	CAMERA - OWNER PROVIDE/E.C. INSTL.	FMC GFCI	FLEXIBLE METAL CONDUIT GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
	CONCEALED CONDUIT	A	ALARM CONTACT	GFI GFP	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED
	EXPOSED CONDUIT	T	THERMOSTAT	J.	JUNCTION BOX
	HOMERUN	F	PULL STATION	LFMC	KEY OPERATED LIQUID—TIGHT FLEXIBLE METAL CONDUIT
	PANEL	Ø	STROBE	LGT M	LIGHTING MULLION (DESPARD TYPE) SWITCH
2	INTERCONNECTED HOMERUN CKT.	⊠<	HORN/STROBE COMBINATION	MTR MTS	MOTOR MANUAL TRANSFER SWITCH
TV	TELEVISION	Ø TS	TAMPER SWITCH	OCPD OE	OVER—CURRENT PROTECTION DEVICE ON EQUIPMENT
М	MAGNETIC DOOR HOLDER	Ø FS	FLOW SWITCH	OHE	OVERHEAD ELECTRIC
⊬ ⊖SF/DF	SINGLE/DOUBLE FACE CLOCK	2	SMOKE DETECTOR	OHT P	OVERHEAD TELEPHONE PILOT LAMP SWITCH
	PUSH BUTTON	SV	SOLENOID VALVE	PP RCP	POWER POLE RECEPTACLE
	BUZZER	T	TRANSFORMER	RI S	ROUGH—IN ONLY SURFACE MOOUNTED
•	POINT OF CONNECTION	DD	DUCT DETECTOR	S.E.R. SP	SERVICE ENTRANCE RATED SURGE PROTECTOR RECEPTACLE
		PC	PHOTCELL/CONTACTOR	SR	SINGLE PURPOSE RECEPTACLE
				SW U.C.	SPLIT WIRED RECEPTACLE FOR HALF SWITCHING UNDER COUNTER
				UGE UGT	UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE
				UNO	UNLESS NOTED OTHERWISE
				W WP	ITEM INSTALLED 44" AFF OR AS DETAILED IN ARCH. ELEVATIONS WEATHERPROOF WHILE IN USE
				WPS Z*	WEATHERPROOF SPRING COVER DEVICE DEVICE ZONE IDENTIFIER (*INDICATES ZONE NUMBER)

MANUFACTURER CATALOG NUMBER	VOLTS WATTS	LAMP TYPE	MOUNTING	FIXTURE NOTES	
METALUX: 24FP4740C	120	LED 4000K > 80CRI	RECESSED	2'x4' FLAT PANEL, LOW PROFILE LED TROFFER.	
		LFD			
METALUX: 22FP4240	40	4000K > 80CRI	RECESSED	2'x2' FLAT PANEL, LOW PROFILE LED TROFFER.	
X LITHONIA: LQM S W 3 R 120/277 LED		LED	LINIVERSAL	SINGLE OR DOUBLE FACE PER DRAWIN	
EITHONIA. EQW 3 W 3 K 120/211	5	LED	ONVERO		
LITHONIA: LQHM-LED-R	120	LED	UNIVERSAL	SINGLE OR DOUBLE FACE PER DRAWIN PROVIDE REMOTE HEADS (RH) AT	
REMOTE HEAD. ELA-T-Q-L0309	5			EXTERIOR EGRESS EXITS.	
LITHONIA: ELM2/LED/WHITE/HO/ELA-T-Q-LO304.	120	LED	UNIVERSAL		
	1.44				
	METALUX: 24FP4740C METALUX: 22FP4240 LITHONIA: LQM S W 3 R 120/277 LITHONIA: LQHM-LED-R REMOTE HEAD: ELA-T-Q-L0309 LITHONIA: ELM2/LED/WHITE/H0/ELA-T-Q-L0304.	CATALOG NUMBER WATTS 120 METALUX: 24FP4740C 40 120 METALUX: 22FP4240 40 120 LITHONIA: LQM S W 3 R 120/277 5 LITHONIA: LQHM—LED—R REMOTE HEAD: ELA—T—Q—L0309 5 LITHONIA: ELM2/LED/WHITE/HO/ELA—T—Q—L0304. 120 120 120 120 120 120 120 12	CATALOG NUMBER WATTS TYPE	MATTS TYPE MOUNTING	

ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR AND ASSOCIATED DIVISION TRADE SUB-CONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK DESIGNATED FOR THIS FACILITY PRIOR TO BIDDING.
- B. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES. IN EVENT OF CONFLICT BETWEEN DRAWINGS, SPECIFICATIONS, CODES AND ORDINANCES, THE MOST STRINGENT REQUIREMENT FROM THE AUTHORITY HAVING JURISDICTION SHALL TAKE PRECEDENCE.
- C. INSTALL EQUIPMENT AND DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS, ADHERING TO REQUIRED CLEARANCES FOR OPERATION AND ACCESS FOR PRODUCT SERVICING. COORDINATE FINAL LOCATION WITH OTHER DIVISION TRADE CONTRACTORS REQUIRED FOR PROPER INSTALLATION.
- D. TYPICAL DEVICE MOUNTING HEIGHTS UNLESS NOTED OTHERWISE:

 PANELBOARDS 78" AFF TO TOP OF CABINET (MAX.)

 CONTROL PANELS 72" AFF TO TOP OF CABINET (MAX.)

 DISCONNECTS 64" AFF TO TOP OF CABINET (MAX.)

 POWER/COMM. OUTLETS 18" AFF TO CENTER OF DEVICE

 TOGGLE SWITCHES 48" AFF TO CENTER OF DEVICE

 INTERCOM 48" AFF TO CENTER OF DEVICE (UNO)

 WHERE DEVICES ARE INDICATED TO BE ABOVE DOORS, CENTER BETWEEN TOP OF DOOR TRIM AND CEILING LINE. ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER
- TYPICAL HEIGHTS LISTED. DEVICES INDICATED ABOVE COUNTERS SHALL BE MOUNTED 8"
 ABOVE COUNTER TO CENTER OF DEVICE.

 E. PROCURE ALL NECESSARY PERMITS AND LICENSES REQUIRED FOR WORK. PAY ALL
 LAWFUL FEES, INCLUDING, BUT NOT LIMITED TO UTILITY DEPOSITS, INSPECTION FEES,

AND TEMPORÁRY AND PERMANENT CONSTRUCTION PERMITS.

- F. COORDINATE WITH DIVISION TRADES AND THE ACTUAL SITE CONDITIONS OF CONSTRUCTION. RESOLVE CONFLICTS BETWEEN DIVISION TRADES FOR LOCATION OF EQUIPMENT INSTALLED AND ACCESSORIES REQUIRED, SO THAT ANY CONFLICTS ARE COORDINATED AND THE EQUIPMENT IS INSTALLED AS A COMPLETE AND OPERABLE SYSTEM. COORDINATE POWER REQUIREMENTS FOR EQUIPMENT PRIOR TO SUBMITTAL REVIEW BY ENGINEER OF RECORD. COORDINATION OF OTHER TRADES SCOPE—OF—WORK AND MATERIALS ARE A NORMAL PART OF THE CONSTRUCTION PROCESS. THE INTENT OF THE WORK IS IDENTIFIED IN THE FULL SET OF CONTRACT DOCUMENTS, AND IS NOT LIMITED BY DIVISION TRADE DOCUMENTS, FAILURE TO COORDINATE THE WORK SHALL NOT BE SUBJECT TO MONETARY CLAIMS.
- G. NOTIFY ENGINEER OF RECORD AND REQUEST ADDITIONAL INFORMATION FOR PROPOSED ALTERNATE OR ALTERNATE EQUIPMENT OTHER THAN LISTED IN THE CONTRACT DOCUMENTS OR SUBMITTED DURING PRODUCT REVIEW WHICH REQUIRES ADDITIONAL SPACE, SUPPORT, LAYOUT CONDITIONS, OR OTHER ELECTRICAL REQUIREMENTS. PROVIDE REQUIRED WORK ONLY AFTER WRITTEN NOTICE—TO—PROCEED FROM ENGINEER OF RECORD.
- H. ALL MATERIALS SHALL BE NEW AND U.L. LISTED FOR THE APPLICATION. PROVIDE PROTECTION FOR ALL ITEMS OF APPARATUS, FIXTURES, APPLIANCES, MATERIALS, EQUIPMENT, AND INSTALLATION SO AS TO PREVENT DAMAGE BY ANY TRADE. CONTRACTOR SHALL REPLACE, AT NO EXPENSE TO THE OWNER, ANY ITEM THAT IS MARRED, DEFACED, OR BROKEN PRIOR TO ACCEPTANCE BY OWNER.
- I. MECHANICAL AND ELECTRICAL PLANS ARE DIAGRAMMATIC, BUT THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF THE BUILDING AND WORK OF OTHER TRADES WILL ALLOW. CONTRACTOR SHALL COORDINATE THE GENERAL WORK IN ORDER THAT THEIR WORK AND THE WORK OF THERE SUB—CONTRACTORS WILL BE PROPERLY INSTALLED IN THE BUILDING. THE APPROVAL OF THE ARCHITECT SHALL BE OBTAINED BEFORE ANY DEVIATIONS FROM THESE PLANS ARE MADE.
- J. ALL LIGHT FIXTURES SHALL BE REQUIRED TO BE GROUNDED BY AN INSULATED GROUNDING CONDUCTOR.
- K. GFCI RECEPTACLES SHALL BE USED AT LOCATIONS WITHIN 6'-0" OF SINKS AND WATER. PROVIDE GFEP BREAKERS FOR CIRCUITS SERVING EXTERIOR EQUIPMENT EXPOSED TO PUBLIC USE.
- L. CONTRACTOR SHALL COORDINATE ALL POWER AND LIGHTING J-BOXES WITH DIVISION 23 MECHANICAL DUCTWORK SO AS NOT TO INSTALL ANY JUNCTION BOXES ABOVE DUCT WORK.
- M. CONTRACTOR SHALL PROVIDE 1/2" EMT CONDUIT CONCEALED IN WALL FROM FLUSH MOUNTED J-BOXES TO CEILING CAVITY FOR ALL THERMOSTATS. PROVIDE END BUSHINGS TO PROTECT ALL LOW VOLTAGE WIRE BEING PULLED. PROVIDE CONTROL ALL HVAC CONTROL CABLING. COORDINATE LOCATIONS, QUANTITY, AND CABLING REQUIREMENTS WITH DIVISION 15 CONTRACTOR. TERMINATION OF CABLING BY DIVISION 15 CONTRACTOR.
- N. DUCT SMOKE DETECTORS SHALL BE REQUIRED IN ALL HVAC UNITS WITH 2000 CFM AND GREATER CAPACITY. DIVISION 26 CONTRACTOR SHALL COORDINATE WITH DIVISION 23 CONTRACTOR FOR INSTALLATION AND CONNECTION OF SMOKE DETECTORS. SMOKE DETECTORS SHALL BE FURNISHED BY DIVISION 26 CONTRACTOR AND BE COMPATIBLE WITH FIRE ALARM SYSTEM. DUCT SMOKE DETECTORS SHALL BE INSTALLED UNDER DIVISION 23. PROVIDE FOR REMOTE INDICATOR AND TESTING WHERE UNITS ARE NOT READILY VISIBLE FOR INSPECTION.
- O. EXPOSED CONDUIT, JUNCTION BOXES AND ACCESSORIES IN FINISHED AREAS TO BE PAINTED AS DIRECTED BY ARCHITECT. COORDINATE CONDUIT RUNS IN EXPOSED AREAS SO THAT ALL RUNS ARE MADE PARALLEL OR PERPENDICULAR TO STRUCTURE.
- P. ALL EXPOSED EXTERIOR CONDUIT SHALL BE RIGID OR LFMC TO VIBRATING EQUIPMENT.
- Q. CONDUIT RACEWAYS SHALL BE COMMERCIAL GRADE STEEL AND ALUMINUM U.L. LISTED FOR THE APPLICATION AND NOT LESS THAN 3/4" IN TRADE SIZE. METAL—CLAD CABLE IS ALLOWED IN LIMITED APPLICATIONS ONLY AND SUBJECT TO THE APPROVAL BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- Y. COVERPLATES IN UNFINISHED AREAS AND CEILING CAVITIES SHALL BE LABELED WITH PERMANENT BLACK MARKER WITH CORRESPONDING CIRCUIT. PROVIDE ADHESIVE LABELS WITH PANEL AND CIRCUIT DESIGNATION ON COVERPLATES OF DEVICES IN FINISHED



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CA 3995 EXP. 06/30/2021

Revision Date	Revision

Project T

CHEROKEE CATOOSA SMOKE SHOP

ELECTRICAL
GENERAL NOTES
AND SCHEDULES

Project Number

GDG,TEM





POWER KEYNOTES: PX

- P1. SWITCH EXHAUST FANS WITH LIGHTS.
- P2. REINSTALL SPEAKERS IN ORIGINAL GRID LOCATIONS.
- P3. REINSTALL FIRE ALARM DETECTION AND NOTIFICATION APPLIANCES BACK TO ORIGINAL

15A/2P (2) #12, (1) #12 GND IN 3/4"C.

60A, NEMA 3R, HD FUSED DISC. WITH 50AF.

LIGHTING KEYNOTES: (LX)

BY OWNER

L1. REPLACE LIGHTING WITH NEW. REUSE EXISTING WHIP, SWITCHING AND CIRCUIT. (TYP) L2. MODIFY EXISTING FIXTURE TO ACCEPT NEW LED TUBES TO MATCH EXISTING LUMENS AND IP65 RATING. (TYP)

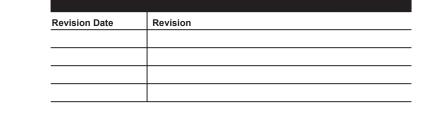
L3. REMOVE SMOKE CONTROL FANS. (TYP)

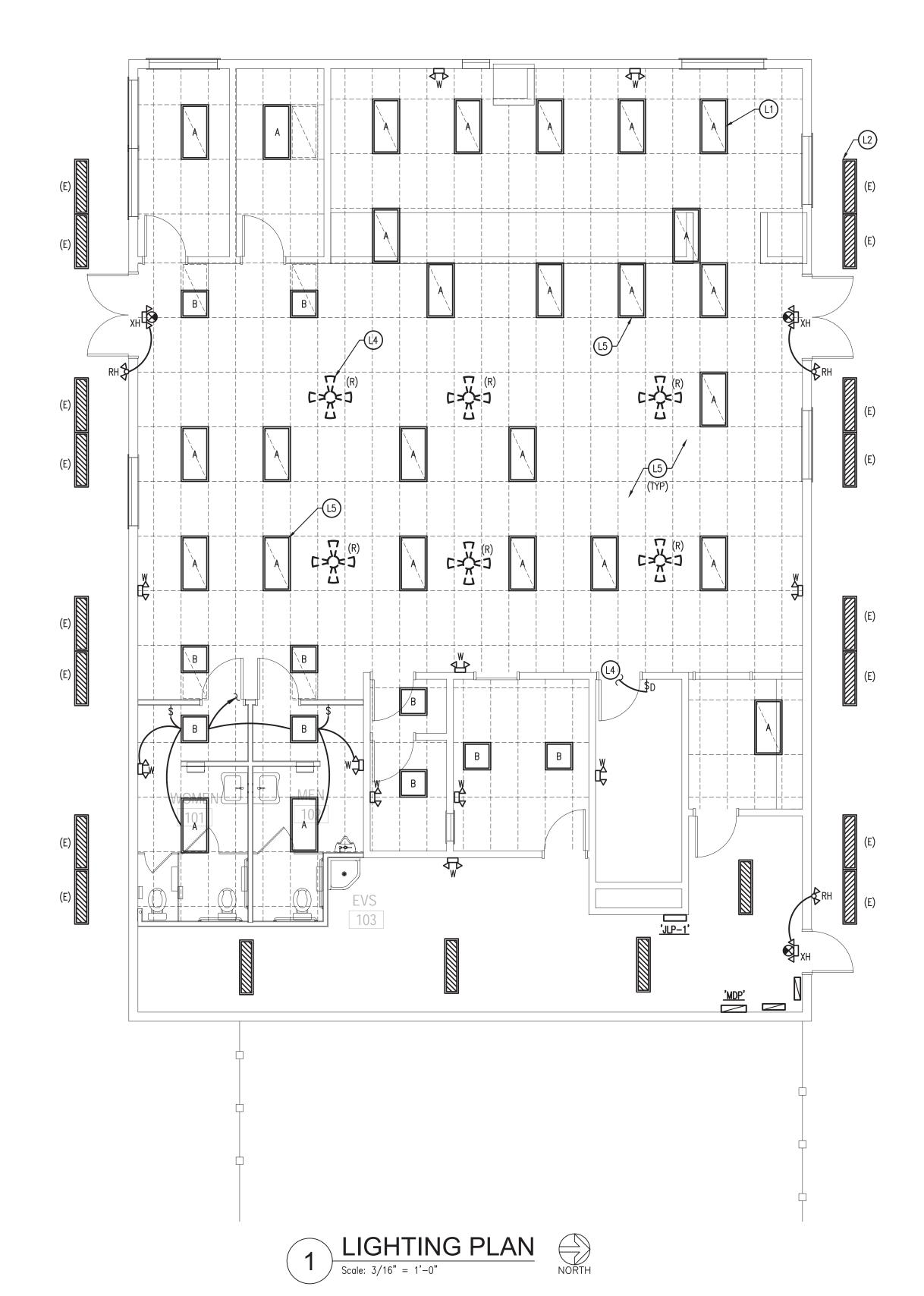
L4. ROUTE GAMING FLOOR LIGHTING THROUGH NEW DIMMING POWER PACK AND DIMMING SWITCH. SWITCH LOCATION PER OWNER.

L5. REINSTALL CEILING GRID AND TILES. PROVIDE NEW MATCHING TILES AND GRID AS



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CHEROKEE CATOOSA SMOKE SHOP

LIGHTING AND POWER PLANS

Drawn DMS,DSP Checked GDG,TEM Reviewed GDG,TEM



07/07/2020

