



CHEROKEE NATION ENTERPRISES, INC.

CATOOSA, OKLAHOMA

CHEROKEE CATOOSA SMOKE SHOP

ISSUE DATE: 07/07/2020

REVISED ISSUE DATE: 09/14/2020

SHEET INDEX

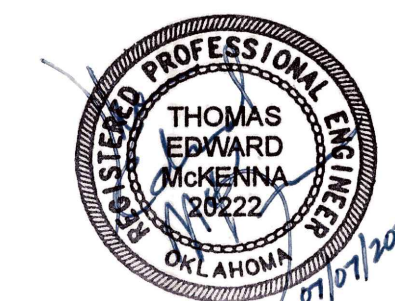
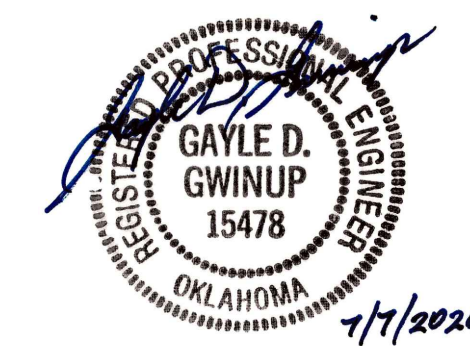
-----	COVERSHEET
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CONSULTING ENGINEER AND MEP CONSTRUCTION MANAGER

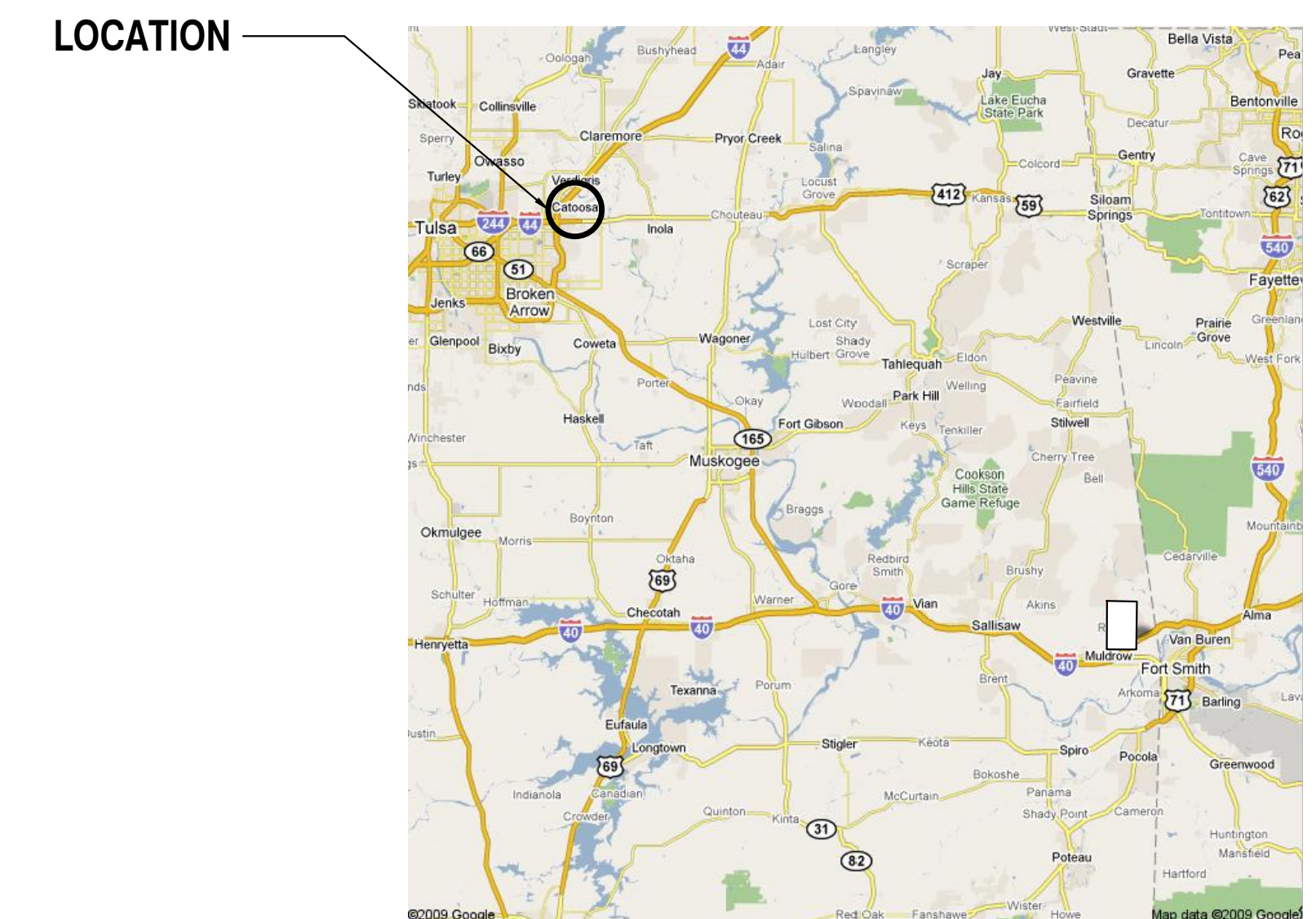


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C.A. # : 3995 Expires 06/30/2021



SITE MAP



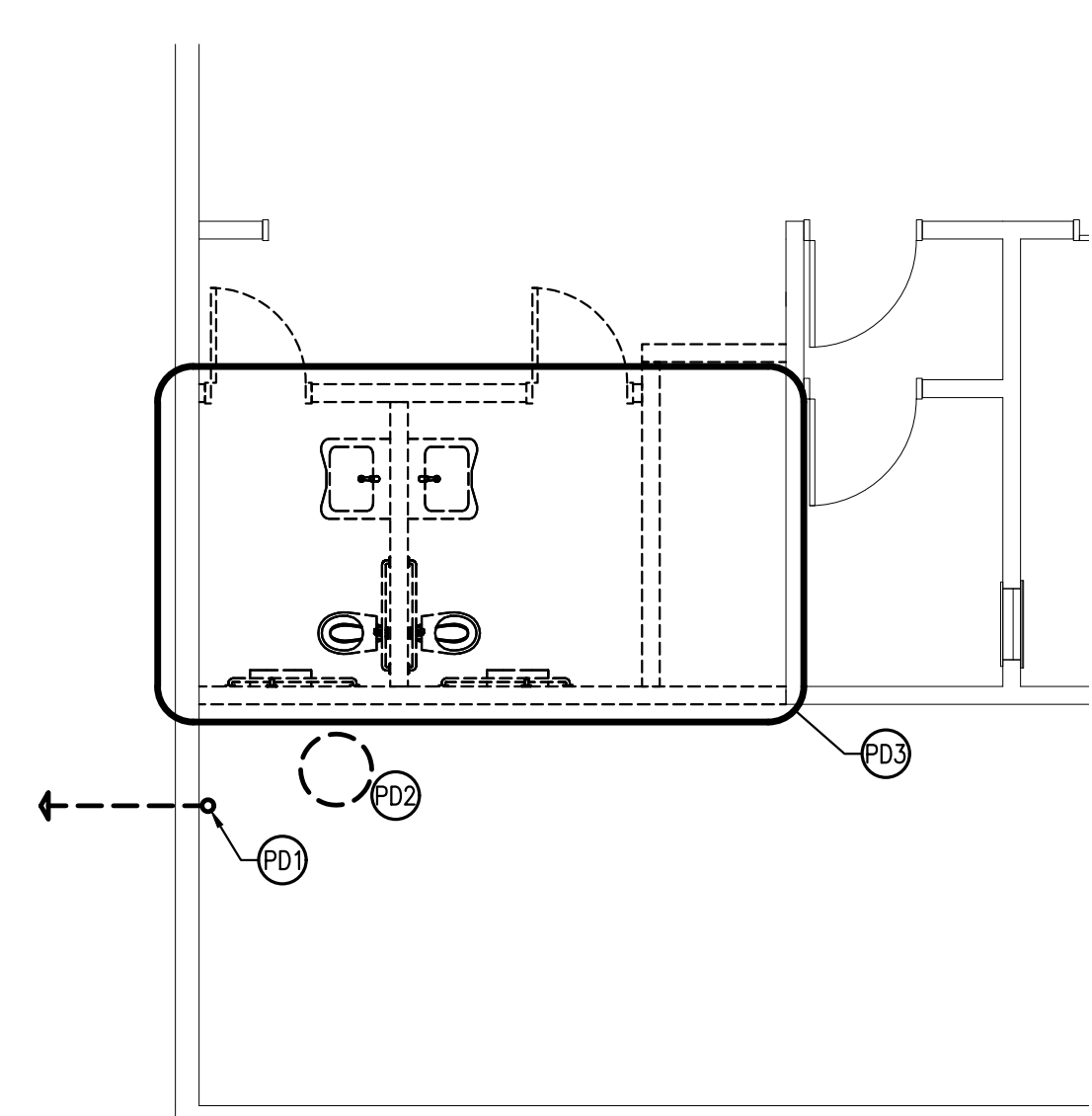
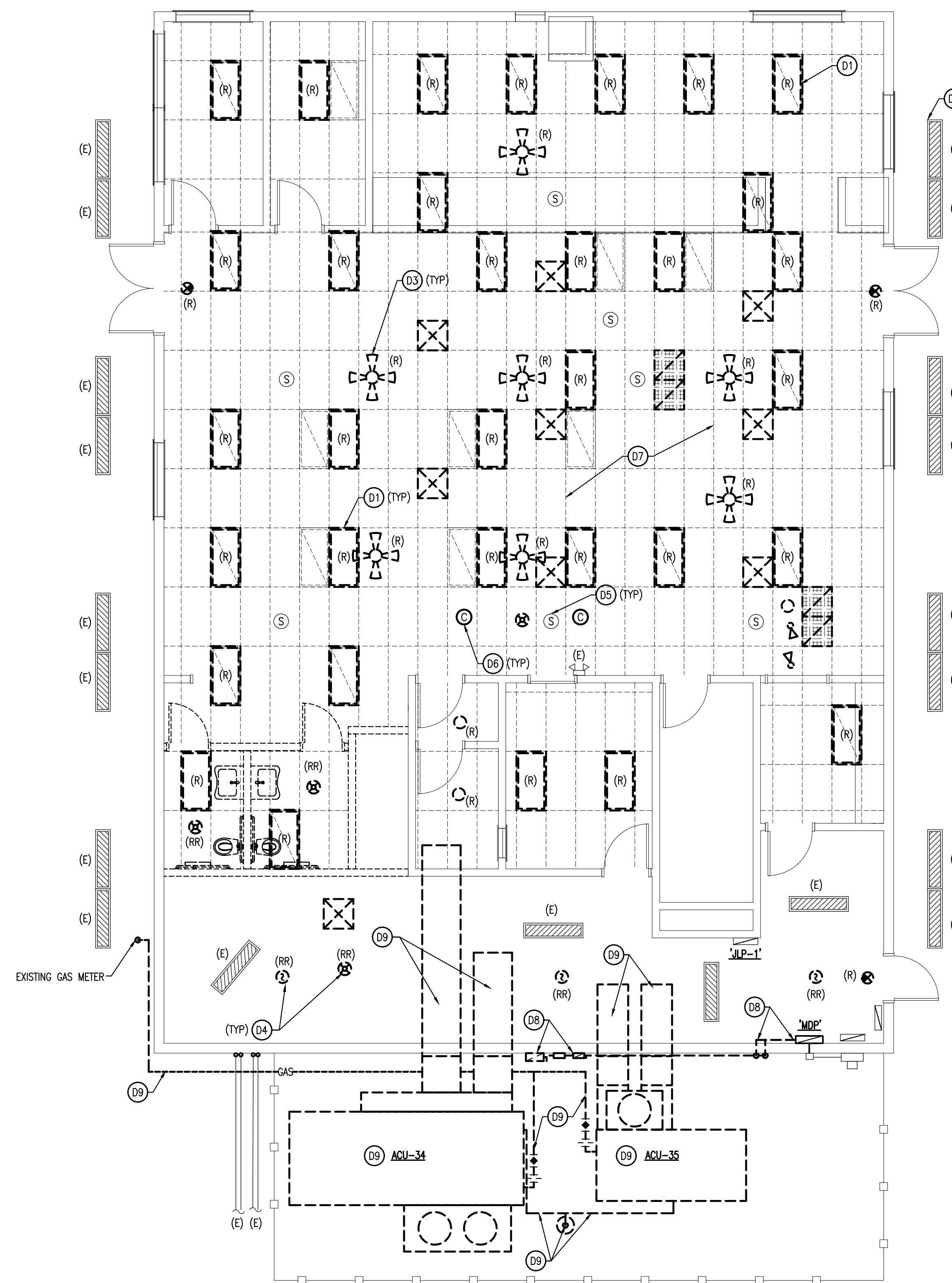
PLUMBING DEMOLITION KEYNOTES: (PD)

- PD1. REMOVE EXISTING WATER SERVICE TO BUILDING BACK TO METER. REMOVE A BRANCH WATER PIPING FROM TOILET FIXTURES TO WATER RISER.
- PD2. REMOVE AND STORE EXISTING WATER HEATER.
- PD3. REMOVE PLUMBING FIXTURES FROM TOILET GROUP. REMOVE VENT PIPING FROM FIXTURES TO VTR. CAP AT VTR FOR CONNECTION IN NEW WORK. CAP SANITARY AT WATER CLOSETS. PREPARE TO CONNECT DRAINS FROM LAVATORIES IN NEW WORK. REPAIR SLAB AS DIRECTED BY OWNER. REMOVE ALL WATER PIPE BACK TO MAIN.

DEMOLITION KEYNOTES: (DX)

- 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 OWNER.
- 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.
- D8. REMOVE EXISTING 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.

Revision Date	Revision



2 PLUMBING DEMOLITION PLAN
 Scale: 3/16" = 1'-0"
 NORTH

1 MEP DEMO PLAN
 Scale: 3/16" = 1'-0"
 NORTH

**CHEROKEE
 CATOOSA
 SMOKE SHOP**

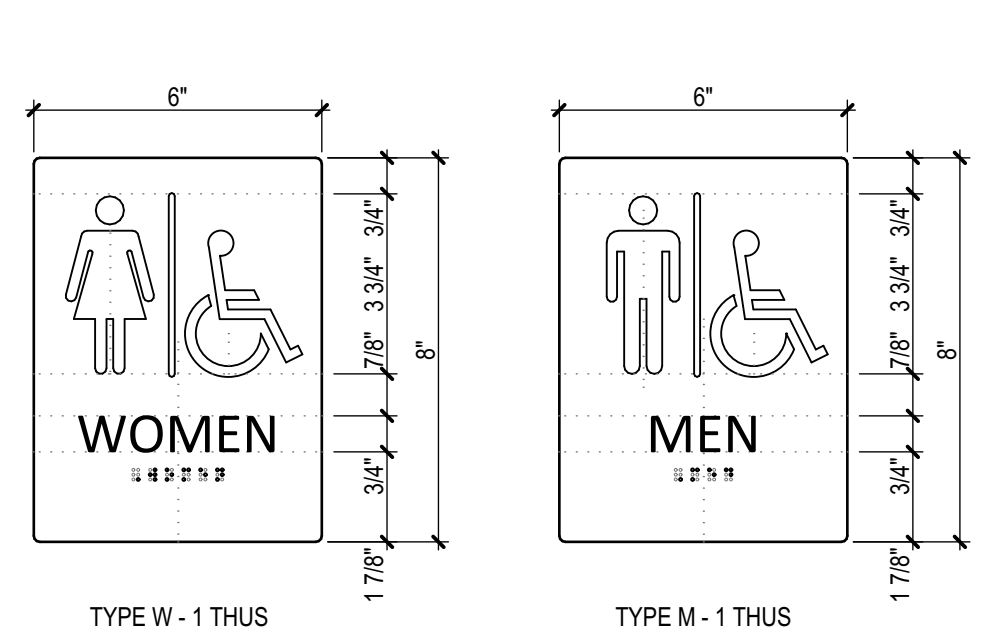
**MEP
 DEMOLITION
 PLAN**

Drawn	DMS,DSP	Project Number	
Checked	G.D.G.,TEM		
Reviewed	G.D.G.,TEM		

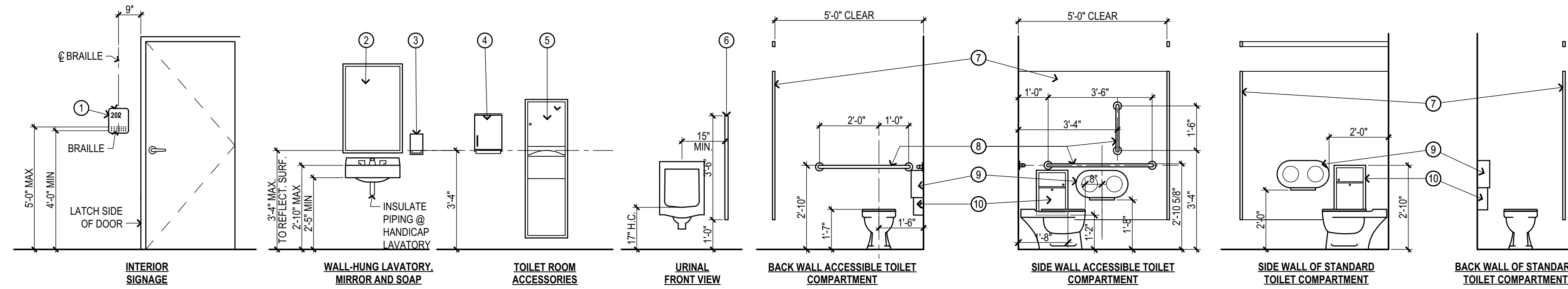
Seal Date **07/07/2020**
 Sheet Number

DMEP101

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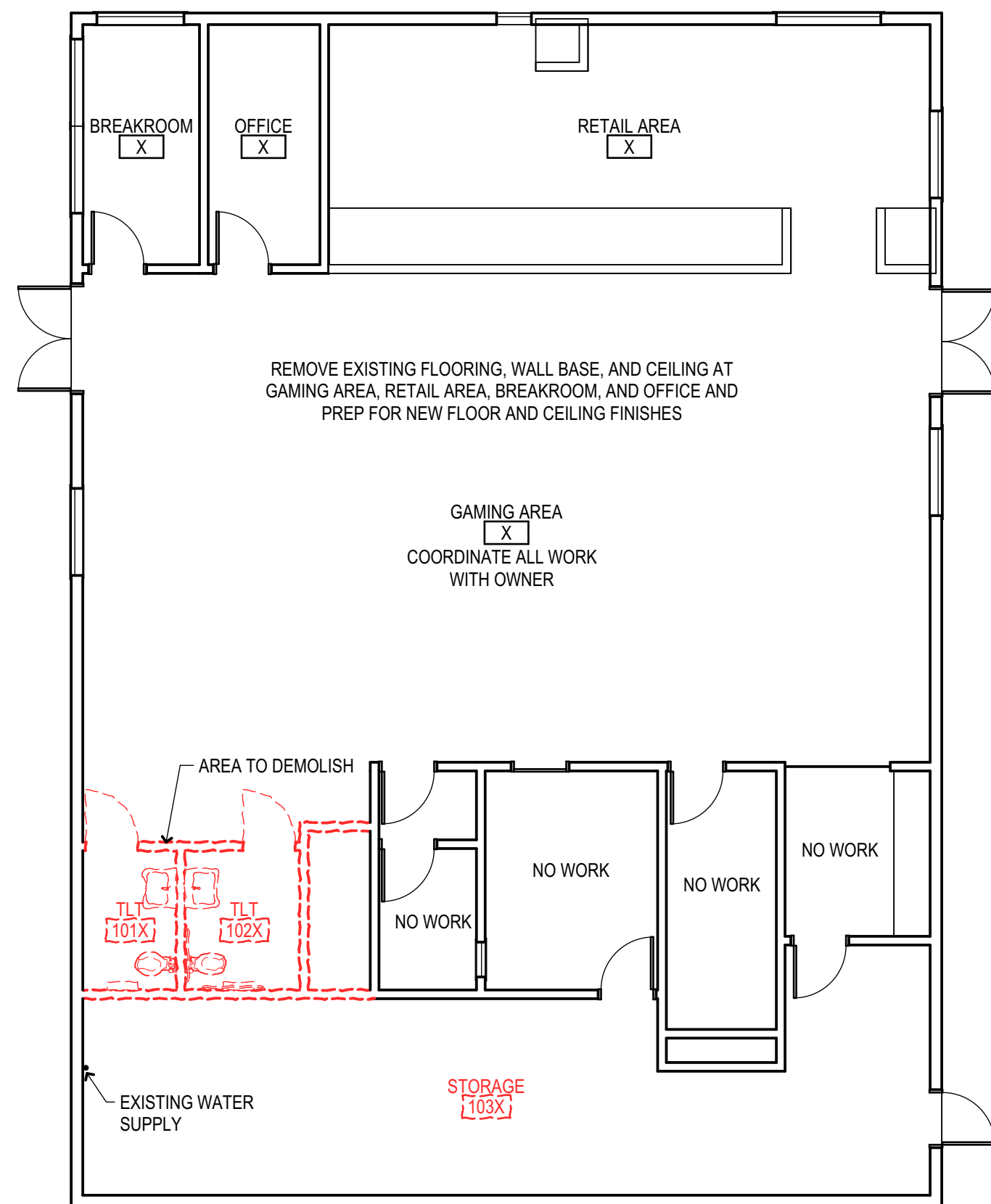
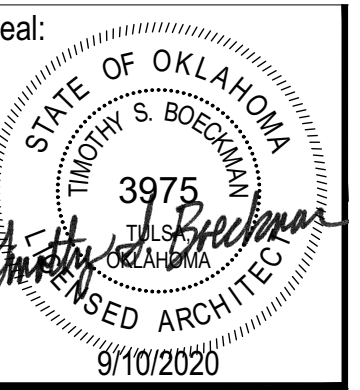
4 SIGNAGE SCHEDULE



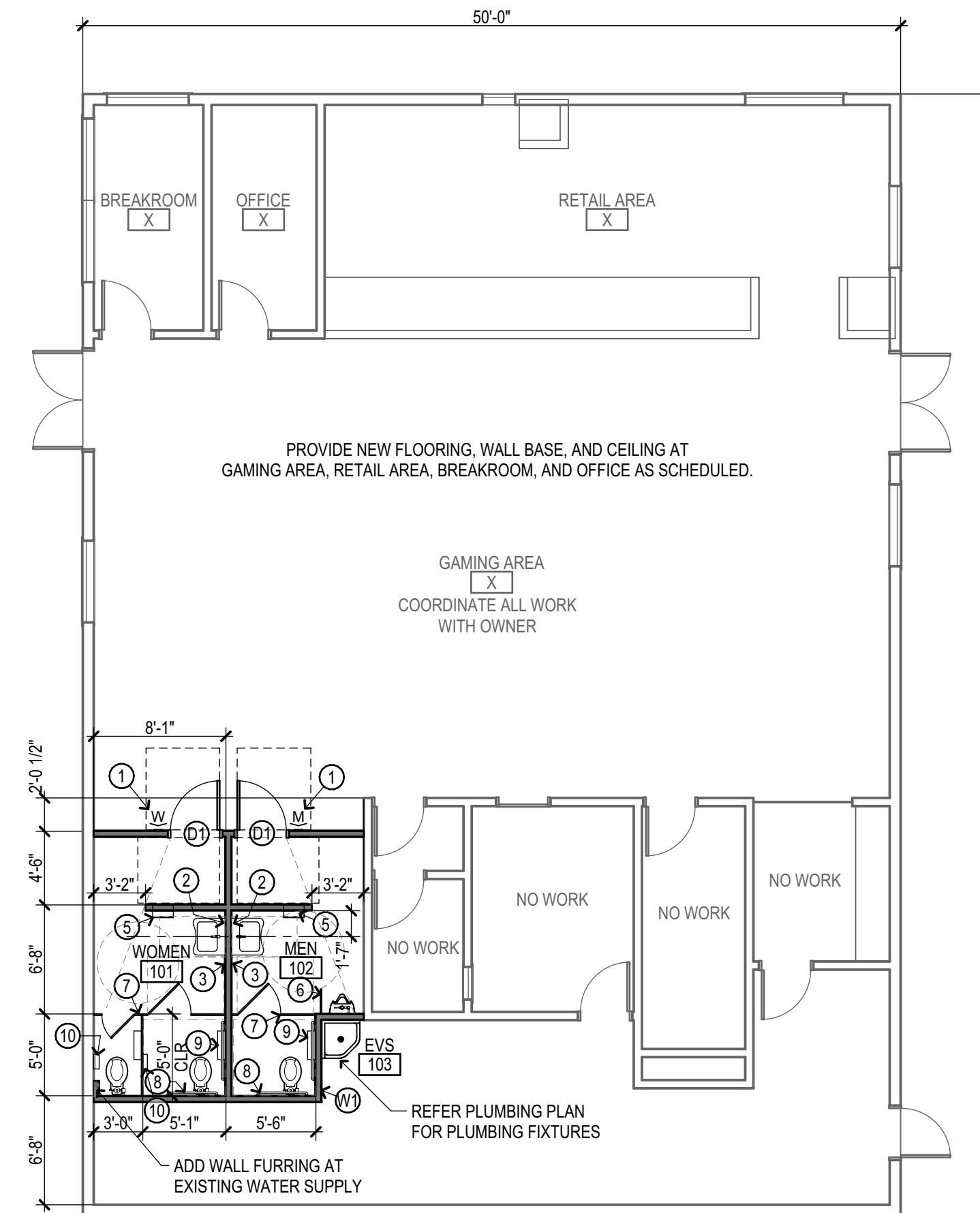
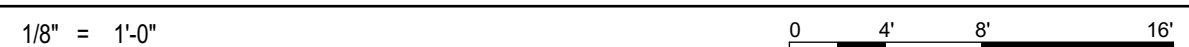
3 TYPICAL MOUNTING HEIGHTS



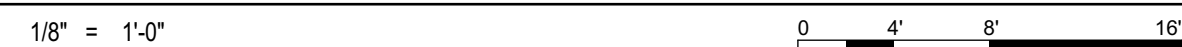
- ① ROOM IDENTIFICATION SIGN, REFER SIGNAGE SCHEDULE
- ② 24"x36" FRAMED MIRROR EQUIVALENT TO: BRADLEY MODEL #780
- ③ SENSOR ACTIVATED SOAP DISPENSER EQUIVALENT TO: BRADLEY MODEL 6A01-11
- ④ PAPER TOWEL DISPENSER NOT USED
- ⑤ SENSOR ACTIVATED COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE EQUIVALENT TO: BRADLEY MODEL #2A25
- ⑥ URINAL SCREEN MATCH METAL TOILET PARTITION
- ⑦ STAINLESS STEEL TOILET PARTITION EQUIV. TO BRADLEY SERIES 700 FLOOR AND CEILING BRACED
- ⑧ GRAB BAR EQUIVALENT TO: BRADLEY MODEL #812
- ⑨ DUAL ROLL TOILET PAPER DISPENSER, SURFACE MOUNTED EQUIVALENT TO: BRADLEY MODEL #5A10
- ⑩ SANITARY NAPKIN DISPOSAL EQUIVALENT TO: BRADLEY #4A10
- ⑪ 3'x7' HOLLOW METAL DOOR IN HM FULLY WELDED FRAME w/ PUSH PLATE, PULL LEVER, CLOSER, AND KICK PLATE. HARDWARE FINISH TO BE BRUSHED STAINLESS.
- ⑫ 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.



2 DEMOLITION PLAN



1 FLOOR PLAN



REFER MEP DRAWINGS FOR POWER, LIGHTING, PLUMBING AND HVAC REQUIREMENTS.

SCHEDULE OF FINISHES

FINISHES AT NEW TOILET ROOMS:

FLOORS: POLYCRETE MDB, COLOR DARK GREY.

WALL BASE: 4" HIGH BASE MATCHING FLOOR FINISH.

WALLS: FULL HEIGHT CERAMIC TILE - EQUIV. TO DAL-TILE FABRIQUE 4x12 STACKED PATTERN. COLOR NOIR LINEN P689. GROUT COLOR EQUIV. TO MAPEI #10 BLACK. SEAL ALL GROUT.

CEILING: PAINTED GYPSUM BOARDS CEILING AT TOILET ROOMS @ 8'-0" HIGH, ALL OTHER AREAS TO BE EXISTING

CEILINGS. PAINT COLOR: OFF-WHITE, SEMI GLOSS SHEEN.

NEW FINISHES AT GAMING AREA, RETAIL AREA, BREAKROOM, AND OFFICE:

FLOORS: 36"x36" CARPET TILE PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.

WALL BASE: RUBBER BASE PROVIDED BY OWNER INSTALLED BY CONTRACTOR.

WALLS: EXISTING

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



Cherokee Nation Enterprises
Catoosa Smoke Shop
Toilet Modifications

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Issue/Revision: Date: Drawn By: Check By:

REV 1-ADDED FINISHES 8/27/2020

Sheet Title:

FLOOR PLAN

Sheet Number:

A101

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SIZE	MANUFACTURER	CARRIER	PIPING CONNECTIONS (IN)				REMARKS/ACCESSORIES
	COLOR	TYPE	MODEL #	TRAP	SOIL	VENT	CW	HW	
WC-1	WATER CLOSET	ELONGATED BOWL	KOHLER	FLOOR	(4)	(2)	(1-1/4)	-	1.28 GPF, SLOAN ROYAL OPTIMA 111 ES-S TMO FV, EL-154 XFM(OPERATE 8 FLUSH VALVES), BEMIS 9500SCT SEAT, WHITE OPEN FRONT W/SS CHECK HINGE
	WHITE	VC	K-4406	INTEGRAL	4	2	1	-	
WC-1H	WATER CLOSET	ELONGATED BOWL	KOHLER	FLOOR	(4)	(2)	(1-1/4)	-	1.28 GPF, SLOAN ROYAL OPTIMA 111 ES-S TMO FV, EL-154 XFM(OPERATE 8 FLUSH VALVES), BEMIS 9500SCT SEAT, WHITE OPEN FRONT W/SS CHECK HINGE
	WHITE	VC	K-4405	INTEGRAL	4	2	1	-	
UR-1H	URINAL	WASHOUT	KOHLER	ZURN Z-1222	(2)	(1-1/2)	(1)	-	0.5 GPF, SLOAN ROYAL 186-0.5 FV, TOP SPUD
	WHITE	FV,ADA,W.H.	K-4991-ET	INTEGRAL	2	1-1/2	3/4	-	
L-1H	LAVATORY	20x18	KOHLER	ZURN Z1231	(2)	(1-1/2)	(1/2)	(1/2)	T&S BRASS B-2711-VF05 FAUCET, OFFSET TAILPIECE, GRID STRAINER CP SUPPLIES W/ WHEEL HANDLE STOPS, MIXING VALVE, WATTS LFUSG-B.
	WHITE	WALL MOUNT	K-2867	17GA. CP TUBE	1-1/4	1-1/4	3/8	3/8	
MSB	MOP SERVICE BASIN	24x24x10	FIAT	FLOOR	(3)	(2)	(1/2)	(1/2)	830-AA FAUCET W/INTEGRAL STOPS, BUCKET HOOK, 3/4" HOSE THREAD END, VACUUM BREAKER, 832-AA HOSE & WALL BRACKET, 36" HOSE, E-88-AA BUMPERGUARD, MS62424 SS WALL GUARD.
	WHITE	MOLDED TERRAZZO	MSB-2424	3" DEEP SEAL	3	2	1/2	1/2	
FD-1	FLOOR DRAIN	6" STRAINER	ZURN	FLOOR	(3)	(2)	-	-	ADJUSTIBLE TOP, SEDIMENT BUCKET, TRAP GUARD
	STD.	C.I. BODY	Z-415-B-Y	DEEP SEAL C.I.	3	2	-	-	

NOTES:
1. ALL WALL MOUNTED EQUIPMENT TO BE PROVIDED WITH ADDITIONAL REINFORCING IN WALL CONSTRUCTION.
2. ALL LAVATORY AND SINK SUPPLIES TO BE CHROME PLATED WITH STOP VALVES.
3. INSULATE HANDICAP ACCESSIBLE LAVATORY TAILPIECE, WASTE P-TRAP, HOT WATER SUPPLY, AND COLD WATER SUPPLY WITH TRU-BRO MODEL 102 & 105.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	SERVICE	MANUFACTURER	STYLE	MODEL NO.	MATERIAL	MOUNTING	FACE	NECK SIZE	FINISH	NOTES
A	SUPPLY	TITUS	SQUARE STEP FACED	TMS	STEEL	LAY-IN	24x24	PER PLAN	WHITE	1,2,3,5
B	RETURN	TITUS	1/2x1/2x1/2 EGG CRATE	50F	STEEL	LAY-IN	24x24	22x22	WHITE	1,2,3,4,5,6
C	SUPPLY	TITUS	SQUARE STEP FACED	TMS	STEEL	LAY-IN	24x24	PER PLAN	WHITE	1,2,3,5,7

NOTES:
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.
3. 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.
6. PROVIDE WITHOUT SCREW HOLES.
7. PROVIDE FULL FACE 24"x24" PANEL.

MINI SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK (OUTDOOR UNIT)	MANUFACTURER	MODEL NO.	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	EER	ELECTRICAL DATA			WEIGHT (LBS)	NOTES	ACCESSORIES
						VOLTAGE	MCA	MOCP			
HPU-1	LENNOX	VRB072H4M3Y	72.0	81.0	14.8	208/3/60	39	45	760	1,2,3	B,E,F
HPU-2	LENNOX	MLA01254S	12.0	12.0	12.5	208/1/60	9	15	100	1,2,3,4	A,B,C,F

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 O.A., 70°F EAT AT INDOOR FCU. AT 100% CAPACITY.
4. INTERLOCK OPERATION WITH INDOOR FCU'S, INDOOR UNIT POWERED BY OUTDOOR HEAT PUMP UNIT.

ACCESSORIES:
A. CRANK CASE HEATER.
B. R410A REFRIGERANT.
C. UNIT SUPPORT FEET.
D. ELECTRONIC EXPANSION VALVE.
E. VBM58B10 MADE SELECTION BOX.
F. BACKNET CARDS

MINI SPLIT SYSTEM FAN COIL UNIT SCHEDULE

MARK (INDOOR UNIT)	MANUFACTURER	MODEL NO.	CFM	NOMINAL COOLING (MBH)	NOMINAL HEATING (MBH)	ELECTRICAL			WT. (LBS.)	NOTES	ACCESSORIES
						VOLTAGE	MCA	MCA			
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	

NOTES:
1. 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.
2. R410A REFRIGERANT.
3. POWERED FROM OUTDOOR HPU.
4. HEATING CAPACITY LISTED BASED ON 47°F O.A., 70°F 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.

- #### 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 FIXTURE 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 CEILING.
 - BRANCH GAS PIPING SHALL BE CONNECTED TO THE TOP OR SIDE OF HORIZONTAL PIPING.
 - INSTALL GAS PIPING AT UNIFORM GRADE OF 0.1 PERCENT SLOPE UPWARD TOWARDS RISERS.
 - USE ECCENTRIC REDUCERS TO MAKE REDUCTIONS IN PIPE SIZES IN HORIZONTAL PIPING. INSTALL FITTINGS WITH LEVEL SIDE ON BOTTOM OF PIPING.
 - INSTALL PIPING SO AS TO ALLOW FOR SERVICE AND MAINTENANCE OF EQUIPMENT AND APPLIANCES.
 - OPEN ENDS OF GAS PIPING SHALL BE CAPPED DURING CONSTRUCTION TO PREVENT INTRODUCTION OF FOREIGN MATERIALS. VALVE AND PIPE 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.
 - 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 GRID 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.
 - 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 CATHODIC PROTECTION.
 - WHERE GAS SERVICE UNDERGROUND PIPING RISES THROUGH PAVING OR CONCRETE SURFACES, PROVIDE PIPE SLEEVE TWO PIPE SIZES LARGER THAN INSTALLED PIPING. EXTEND SLEEVE A MINIMUM 12 INCH ABOVE FINISH SURFACE AND DEEPER THAN DEPTH OF PAVING OR CONCRETE. FILL SLEEVE VOID WITH SALT, ROUNDED, WASHED GRAVEL.
 - 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 (UNDER FINISHED FLOOR)		
-----	SANITARY SEWER (ABOVE FINISHED FLOOR)		
-----	DOMESTIC COLD WATER (C)		
-----	DOMESTIC HOT WATER (H)		
-----	DOMESTIC HOT WATER RETURN (HR)		
-----	PLUMBING VENT		
⊘	ELBOW DOWN	⊘	ANGLE VALVE
⊘	TEE DOWN	●	BALL VALVE
⊘	ELBOW UP	⊘	CHECK VALVE
⊘	TEE UP	⊘	SHUT-OFF VALVE IN VERTICAL
⊘	CAP		UNION
⊘	FLOOR CLEANOUT	⊘	FLOOR DRAIN
⊘	WALL CLEANOUT	⊘	VENT THROUGH ROOF
⊘	TWIN CLEANOUT		

EXHAUST FAN SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL NO.	CFM	E.S.P. I.W.G.	MAX RPM	SONES	H.P. (WATTS)	ELECTRICAL VOLTAGE	TYPE	NOTES	ACCESSORIES
EF-2	MENS	COOK	GC-422	200	0.5	1500	4.5	(106)	120/1/60	CEILING	2,3,6,7	GBD,CB,RH

NOTES:
1. TIMER CONTROLLED.
2. SPEED WITH LIGHTS.
3. SWITCH CONTROL SWITCH MANUFACTURER PROVIDED AND INSTALL AT UNIT.
4. SPEED CONTROL WALL SWITCH.
5. BELT DRIVE.
6. DIRECT DRIVE.
7. VIBRATION ISOLATION MOUNTING.
8. WALL SWITCH.
9. BUILDING MANAGEMENT SYSTEM PROVIDED AND INSTALL AT UNIT.
10. INTERLOCK WITH KITCHEN HOOD.
11. INTERLOCK WITH DISHWASHER.
12. ALUMINUM GRILLE.

ACCESSORIES:
GBD- GRAVITY BACKDRAFT DAMPER
MBD-MOTORIZED BACKDRAFT DAMPER
BS-BIRD SCREEN
CB-CURB REFER TO DWG. FOR SIZE.
DS-DISCONNECT SERVICE
RH-ROOF HOOD WITH BIRD SCREEN. REFER TO DWG. FOR SIZE.

ACCESSORIES:
G1- GREASE TRAP WITH ABSORBENT MATERIAL
VCB-VENTED ROOF CURB NFPA COMPLIANT

ROOF TOP UNIT SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL NO.	COOLING CAPACITY				HEATING CAPACITY				ENERGY RECOVERY				CFM	OUTSIDE AIR (CFM)	TOTAL E.S.P. (IWG)	FAN (H.P.)	EER (SEER)	ELECTRICAL DATA				WEIGHT WITH CURB (LBS)	NOTES	ACCESSORIES
				TOTAL (MBH)	SENSIBLE (MBH)	INPUT (MBH)	OUTPUT (MBH)	COOLING		HEATING		VOLTAGE	M.C.A.	COMP (RLA)	O.F. (FLA)						I.F. (FLA)	POWER EXHAUST					
								TOTAL MBH	SENSIBLE MBH	TOTAL MBH	SENSIBLE MBH																
RTU-1	FLOOR	MODINE	MPR30CE1A1AEU14N2JNDNNN	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		

NOTES:
1. REFER TO PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL FEATURES AND REQUIREMENTS. PROVIDE BACKNET CARD FACTORY INSTALLED.
2. EXISTING UNIT TO REMAIN.
3. POWERED FROM OUTDOOR HPU.
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 ARI CONDITIONS.
6. CFM LISTED 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.

ACCESSORIES:
A. FACTORY 24" ROOF CURB TO MATCH SPECIFIED UNIT.
B. OWNER PROVIDED CO SENSOR.
C. LOW AMBIENT KIT (COOLING AVAILABLE DOWN TO 0°F).
D. FACTORY INSTALLED BAROMETRIC RELIEF DAMPER.
E. CONDENSATE OVERFLOW HUMIDISTAT.
F. STAINLESS STEEL HEAT EXCHANGER.
G. OWNER PROVIDED ROOM TEMPERATURE, CARBON DIOXIDE, SERVICE OUTLET.
H. FACTORY OR FIELD SUPPLIED HAIL GUARD.
I. ADDRESSABLE SMOKE DETECTOR, WITH ADDRESSABLE RELAY MODULE AND SAMPLING TUBE COMPATIBLE WITH EXISTING CAMPUS FIRE ALARM.
J. TIME DELAY.

ACCESSORIES:
L. OUTSIDE AIR MOTORIZED DAMPER (DAMPER SHALL GO TO FULL CLOSED POSITION WHEN INDOOR FAN SHUTS DOWN).
M. POWERED EXHAUST.
N. SUPCO MODEL SLP2565 PRESSURE SENSOR.
O. FACTORY INSTALLED CONDENSATE OVERFLOW SENSOR.
P. THE 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.

- #### H.V.A.C. GENERAL NOTES:
- WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION.
 - INSTALL ALL EQUIPMENT IN ACCORDANCE WITH CODE REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS OR RECOMMENDATIONS, ADHERING TO REQUIRED CLEARANCES FOR OPERATION AND SERVICE.
 - 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.
 - 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.
 - 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.
 - 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 PRESSURE 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 SECTIONAL 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.
 - 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 WORK.
 - 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. DIVISION 25 WORK SHALL COORDINATE WITH DIVISION 16 CONTRACTOR. 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.
 - ALL EQUIPMENT SHALL BE PERMANENTLY LABELED WITH SIGNAGE SECURED TO EQUIPMENT.
 - CONDENSATE PIPING SHALL BE AS NOTED ON THE DRAWING, BUT IN NO CASE LESS THAN 3/4 INCHES.
 - 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 PLUS 2 INCHES.
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 - CONDENSATE PIPING INSTALLED WITHIN THE BUILDING SHALL BE FULLY

Revision Date	Revision

PLUMBING KEYNOTES: (PK)

- 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 SINK.
- 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 OBTAINED.
- 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.

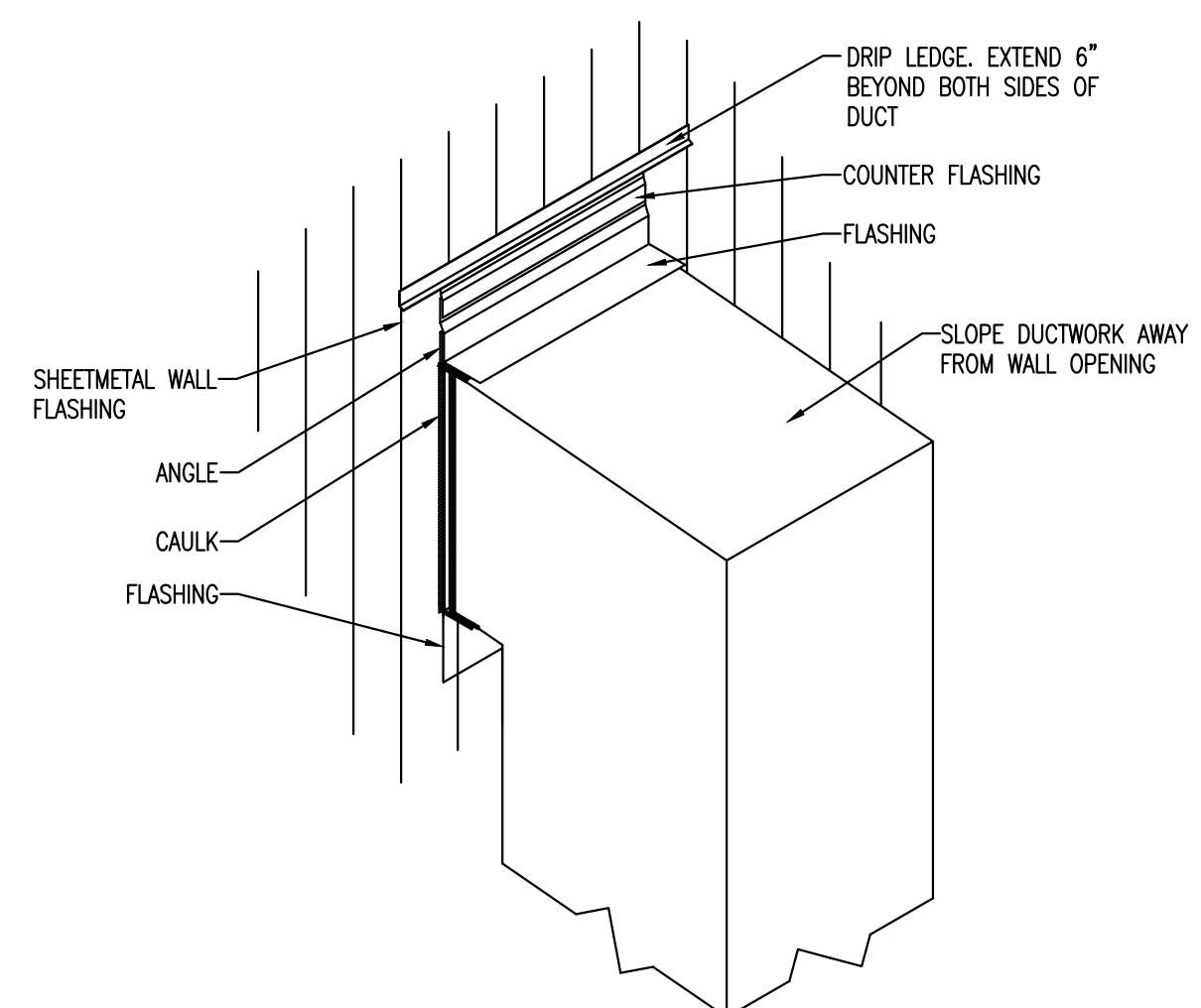
CFM	DUCT SIZE
50 - 75	5"
75 - 115	6"
115 - 160	7"
161 - 220	8"
221 - 290	9"
291 - 490	10"
491 - 700	12"

MECHANICAL KEYNOTES: (MK)

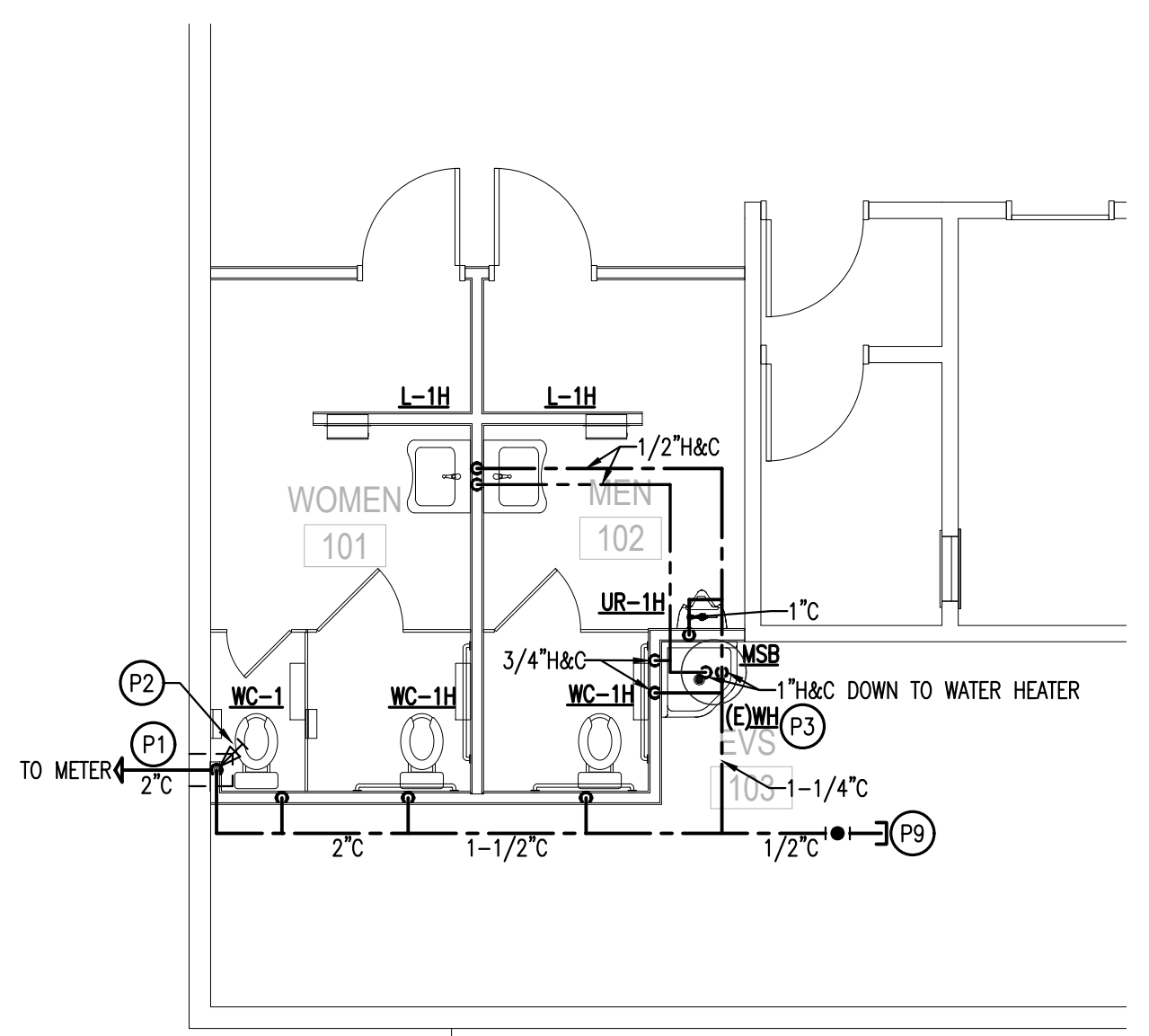
- M1. UNDERCUT DOOR MINIMUM 1 INCH.
- M2. ALL BALANCE DAMPERS SHALL HAVE A MINIMUM 2 INCH STAND-OFF HANDLE.
- M3. COORDINATE FINAL LOCATION OF ALL AIR DEVICES WITH LIGHTS, GRID AND ALL OTHER ARCHITECTURAL AND SECURITY FEATURES.
- M4. INSTALL THERMOSTAT AT 48 INCHES ABOVE FINISHED FLOOR. COORDINATE FINAL 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.
- M6. TAP TOP OF MAIN CONDENSATE DRAIN FOR ALL BRANCH LINES.
- 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 FEATURES.
- 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: (MK)

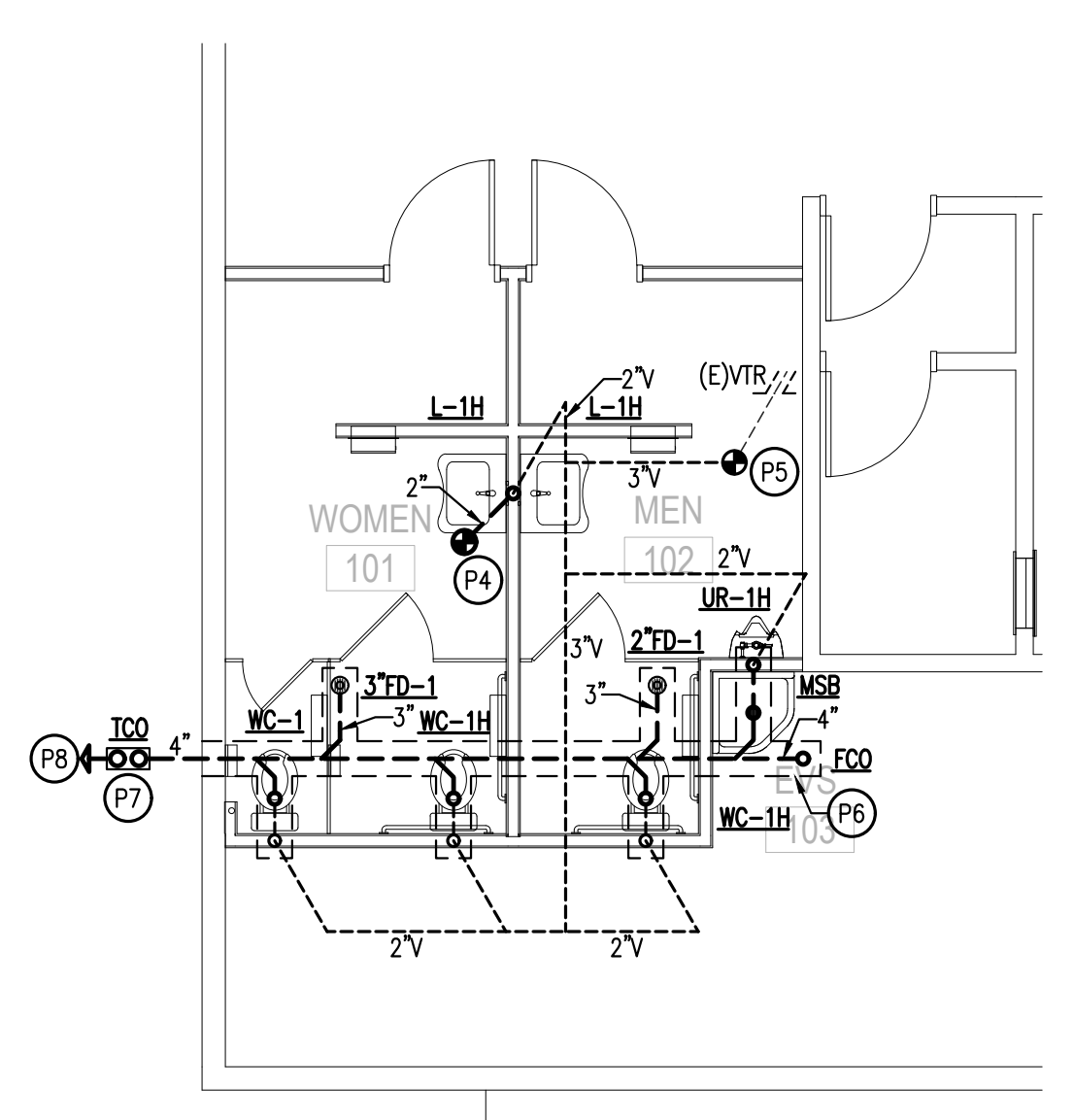
- M9. ALL EXTERIOR DUCTWORK SHALL BE PRE MANUFACTURED DOUBLE WALL DUCTWORK. INSIDE AND OUTSIDE LAYERS OF DUCT SHALL HAVE SNAP LOCK SEAMS. INSIDE DUCT SHALL BE FORMED TO FOLD OVER DUCT INSULATION AND CONNECT TO DUCT MATE FLANGE THAT IS ATTACHED TO OUTER DUCT. INSULATION BETWEEN DUCTS SHALL BE 2 INCH. 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.



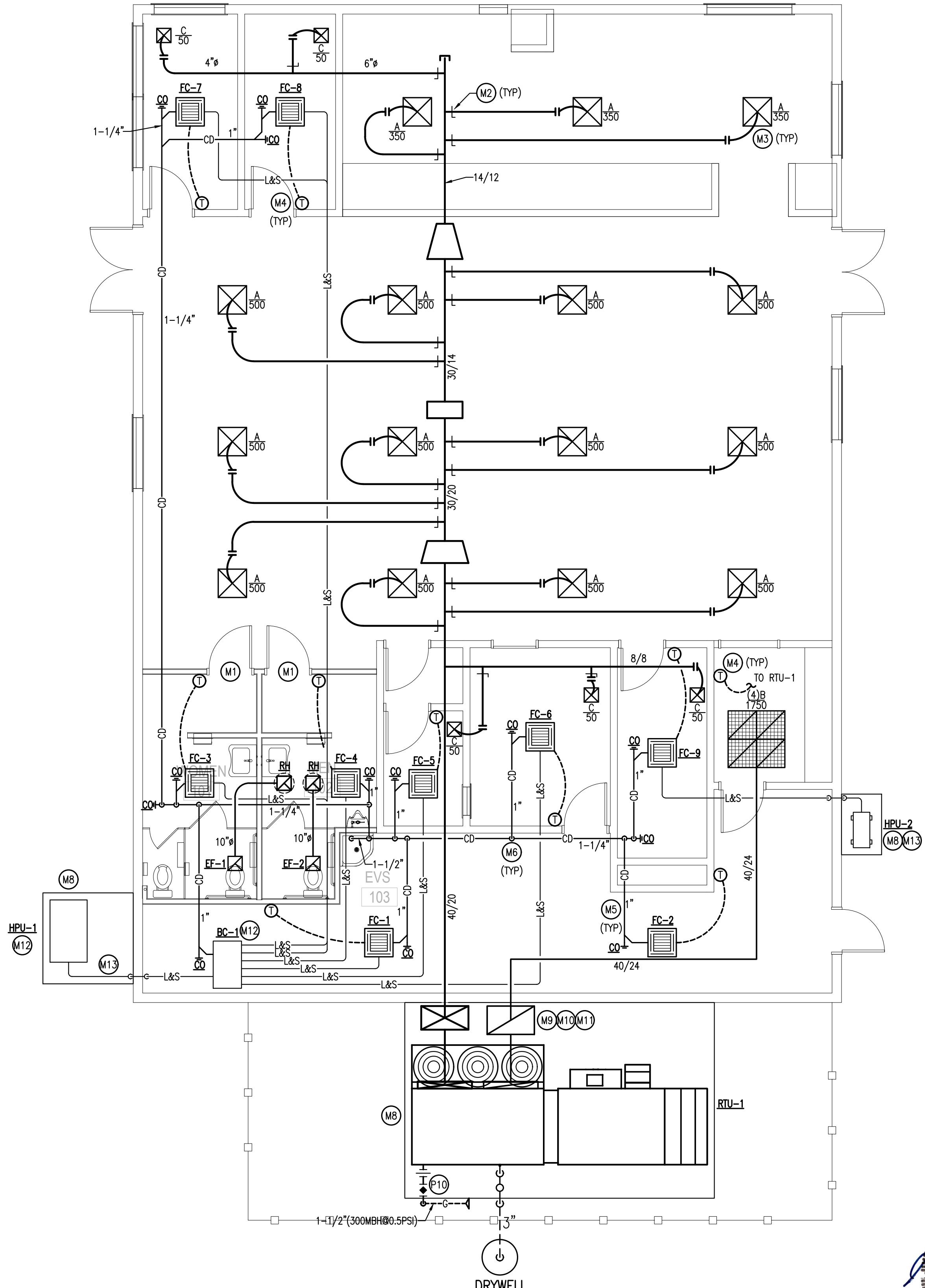
4 SIDEWALL DUCT PENETRATION DETAIL
Scale: NTS



3 PLUMBING WATER PLAN
Scale: 3/16" = 1'-0"
NORTH



2 PLUMBING WASTE AND VENT PLAN
Scale: 3/16" = 1'-0"
NORTH



1 MECHANICAL AND GAS PLAN
Scale: 3/16" = 1'-0"
NORTH

Project Title

CHEROKEE CATOOSA SMOKE SHOP

Sheet Title

MECHANICAL AND PLUMBING PLANS

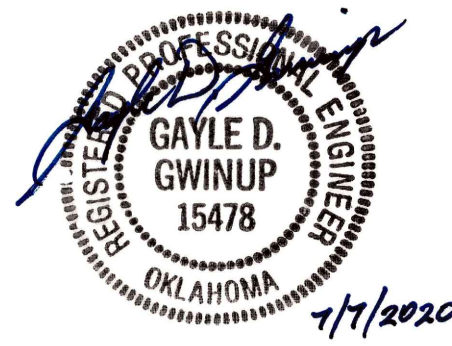
Drawn: DMS,DSP Project Number

Checked: GDG,TEM

Reviewed: GDG,TEM

Seal Date: 07/07/2020

Sheet Number



MP101

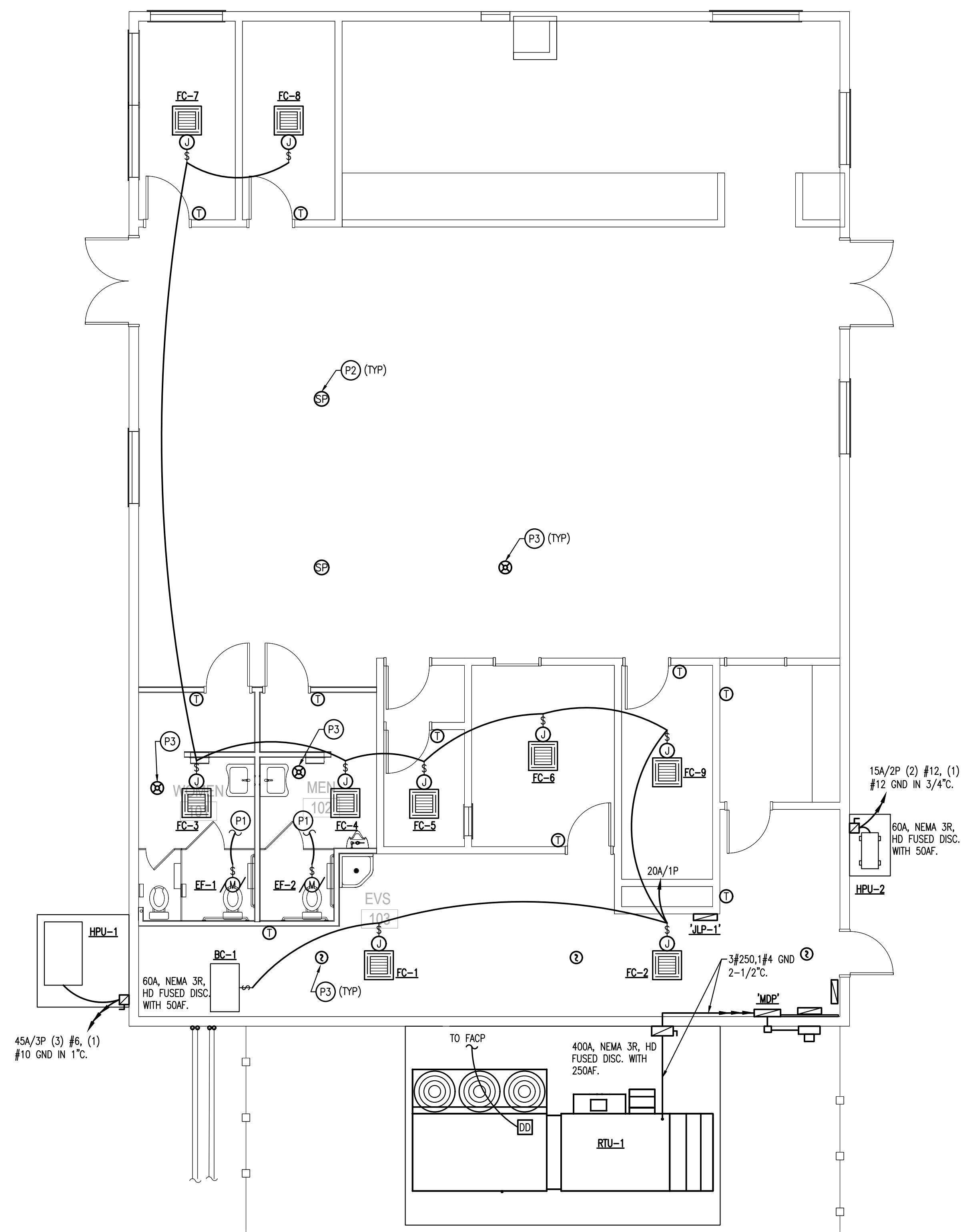
POWER KEYNOTES: (PX)

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

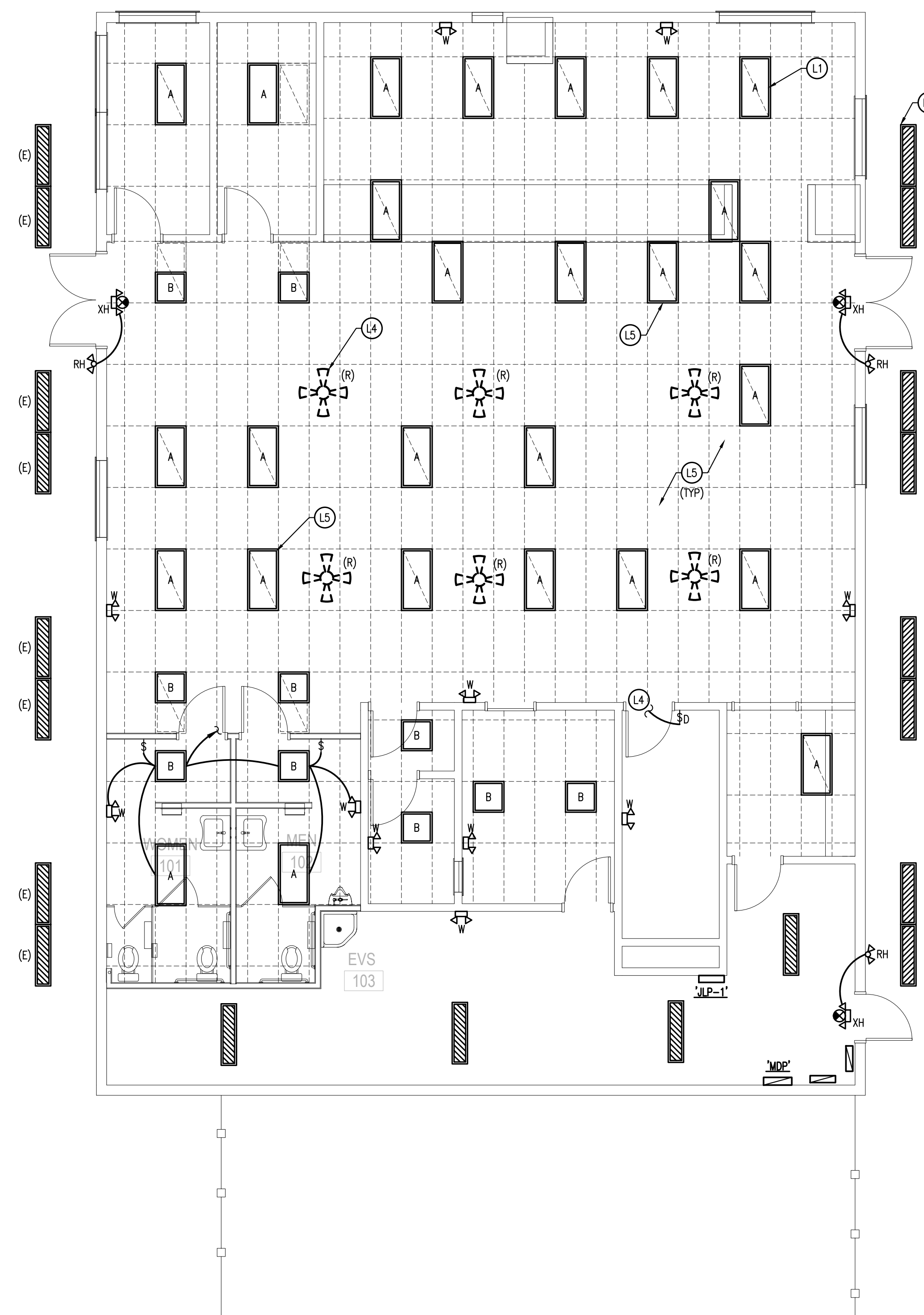
LIGHTING KEYNOTES: (LX)

- 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 NEEDED.

Revision Date	Revision



2 POWER PLAN
 Scale: 3/16" = 1'-0"
 NORTH



1 LIGHTING PLAN
 Scale: 3/16" = 1'-0"
 NORTH

Project Title

**CHEROKEE
 CATOOSA
 SMOKE SHOP**

Sheet Title

**LIGHTING AND
 POWER PLANS**

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

07/07/2020

Seal of **THOMAS EDWARD MICHELENA**, Registered Professional Engineer, No. 20222, Oklahoma. Date: 07/17/2020.

Sheet Number **E101**

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