

WING SNOB - STERLING HEIGHTS

CITY OF STERLING HEIGHTS

INTERIOR ALTERATION

MICHIGAN

2:THIRTEEN
— DESIGN WORKS —
Architectural Design & Planning,
21550 FORT WORTH, MACOMB, MICHIGAN, 48044, TEL: (810) 278-6344

DESCRIPTION OF PROFESSIONAL SERVICES PERFORMED BY TENANT.
SERVICES TO BE PERFORMED WITHIN THIS TENANT SPACE ARE AS FOLLOWS:
PREPARATION OF FOOD INTENDED FOR CARRY-OUT

DRAWING TRANSMITTAL
IF ENCLOSURES ARE NOT AS NOTED, PLEASE INFORM US IMMEDIATELY.

WE TRANSMIT HEREWITH FOR YOUR:
CONSTRUCTION USE AND SUBMITTAL TO BUILDING AUTHORITIES.

COPIES:
(1) ORIGINAL SET.

DESCRIPTION:
CONSTRUCTION DRAWINGS

2:13 DESIGNWORKS

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PERMISSION OF 2:THIRTEEN DESIGN WORKS LLC.



CODE COMPLIANCE:

PROJECT NAME:	WINGSNOB-STERLING HEIGHTS
PROJECT ADDRESS:	THE AVENUE RETAIL CENTER TENANT "C" 34720 VAN DYKE AVE. STERLING HEIGHTS, MI 48312
PROJECT OWNER:	JBC RESTAURANTS LLC. 8424 EAST 12 MILE ROAD, WARREN, MI 48093
PROJECT ENGINEER:	ROBERT A. WALZ LICENSE #261204
PROJECT MANAGER:	2:13 DESIGNWORKS, LLC. 21550 FORTWORTH COURT MACOMB, MI. 48044
CONTRACTOR:	TBD
PROPOSED USE:	FAST-CASUAL DINING AND CARRY-OUT RESTAURANT
PROJECT AREA:	1921 SQ. FT.
OCCUPANCY TYPE (USE GROUP):	II-A
TYPE CONSTRUCTION:	V-B
JURISDICTION:	CITY OF STERLING HEIGHTS BUILDING DEPARTMENT
APPLICABLE CODES:	MICHIGAN BUILDING CODE 2015 AND ICC/ANSI A1171-200 MICHIGAN PLUMBING CODE 2015 (SECTION 1) MICHIGAN MECHANICAL CODE 2015 MICHIGAN ELECTRICAL CODE 2014 (PART 8) NATIONAL ELECTRICAL CODE 2014 MICHIGAN UNIFORM ENERGY CODE 2009 & ANSI/ASHRAE 90.1-2007 INTERNATIONAL FUEL GAS CODE 2012 INTERNATIONAL FIRE CODE 2009, NFPA 13 (2010) & NFPA 12 (2010)
OCCUPANCY LOAD FOR EGRESS:	KITCHEN: (100 SF. / OCCUPANT) 1001 SF. / 100 = 10 OCCUPANTS
DINING:	(15 SF. / OCCUPANT) 920 SF. / 15 = 61 OCCUPANTS
	TOTAL OCCUPANT LOAD: 71 PEOPLE
SPRINKLED:	YES

GENERAL NOTES:

CODES: TO THE BEST OF OUR KNOWLEDGE, THESE PLANS & SPECS. COMPLY WITH ALL KNOWN & APPLICABLE BUILDING CODES IN EFFECT AT THE TIME WHEN THE BUILDING WAS DESIGNED.

ALL CONSTRUCTION: TO BE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S CODES, RULES, ORDINANCES AND REGULATIONS.

ARCHITECTURAL PLANS: ANY VARIATIONS OF THESE DOCUMENTS ARE STRICTLY PROHIBITED UNLESS WRITTEN CONSENT IS OBTAINED FROM THE ARCHITECT.

DRAWINGS AND SPECIFICATIONS: ARE, AND SHALL REMAIN, THE PROPERTY OF THE ARCHITECT.

FIELD CONDITIONS: THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATIONS, ELEVATIONS, AND DETAILS OF EXISTING CONDITIONS THAT AFFECT THE WORK AND SHALL INFORM THE ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS, SIZES, LOCATIONS, AND CONDITIONS BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS OF THE BUILDING INCLUDING UTILITIES, SERVICES, ETC., AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE HE CAUSES TO BOTH EXISTING AND NEW CONSTRUCTION AND PROPERTY AND FOR ANY UNAUTHORIZED DISRUPTION TO THE OWNER'S NORMAL USE OF UTILITIES, SERVICES, AND SURROUNDING FACILITIES.

THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, UNDERPINNING, AND ALL OTHER MEANS REQUIRED TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY, AND STABILITY OF ALL EXISTING AND NEW CONSTRUCTION THAT MAY BE AFFECTED BY THE WORK.

THE CONTRACTOR SHALL PROVIDE A COPY OF THE APPROVED PLANS AND PLAN REVIEW RECORD ON SITE FOR INSPECTIONS. THE PLANS AND REVIEW RECORD SHALL BE PLACED NEAR THE ACTUAL CONSTRUCTION AND SHALL BE READILY ACCESSIBLE TO THE INSPECTOR.

DAMAGE: EACH CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OR INJURY TO THE OWNER THROUGH IMPROPER WORKMANSHIP AND SHALL REPAIR OR PAY FOR THE REPAIRS NECESSARY TO CORRECT THE WORK OF OTHER TRADES OF MATERIALMEN, WHERE SAID DAMAGE IS NOT PROPERLY CORRECTED WHEN ORDERED, THE ARCHITECT MAY DIRECT OTHERS TO PERFORM AND HAVE THE COST OF SUCH WORK BACK-CHARGED AGAINST THE CONTRACT OF THE OFFENDING PARTY.

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE MEANS OR METHODS OF CONSTRUCTION OR ACTS OF OMISSIONS OF THE CONTRACTOR OR HIS SUBCONTRACTORS, AGENTS, OR EMPLOYEES.

SAFETY: JOB SITE SAFETY IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

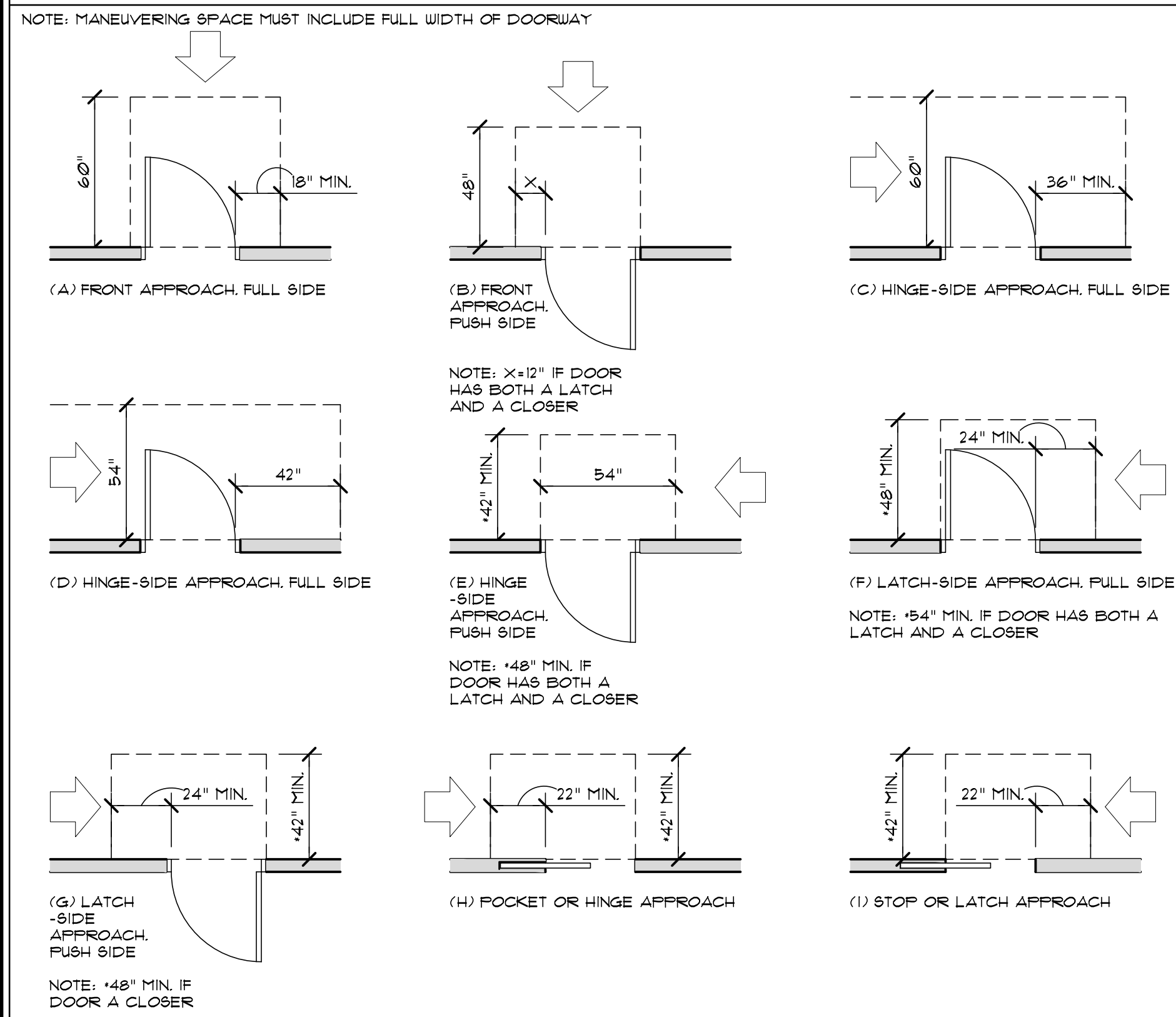
MANUFACTURERS' SPECS: ALL MATERIALS TO BE DELIVERED, STORED, MOVED, APPLIED, ATTACHED AND FINISHED PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS, LOCAL, STATE AND NATIONAL BUILDING CODES, AND UTILITY COMPANY REGULATIONS, WHERE THESE DRAWINGS AND SPECS CONFLICT WITH THESE REQUIREMENTS, IMMEDIATE NOTICE SHALL BE GIVEN TO THE ARCHITECT. SUBMISSION AND APPROVAL OF SHOP DRAWINGS AND/OR WAIVER OF REQUIREMENTS FOR SAID SUBMISSION SHALL BE AT THE ARCHITECT'S DISCRETION; HOWEVER, FAILURE OF THE ARCHITECT TO SUBMIT REVIEWED SHOP DRAWINGS TO THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL NOT BE CONSTRUED TO BE A WAIVER OF ANY REQUIREMENTS OR CONDITIONS OTHERWISE REQUIRED FOR COMPLETE PERFORMANCE OF THE WORK DESIGNATED UNDER THE CONTRACT.

SPECIAL CONDITIONS: THE OWNER, GENERAL CONTRACTOR, EACH INDIVIDUAL SUBCONTRACTOR AND MATERIALMEN AGREE TO SAVE THE ARCHITECT HARMLESS AS A RESULT OF ANY INJURY OR DAMAGE THAT MAY RESULT OF THE ACTS OR OMISSIONS BY THE SAID OWNER, CONTRACTORS AND/OR MATERIALMEN IN THE PERFORMANCE OF THEIR WORK. ALL ERECTION AND CONSTRUCTION PROCEDURES SHALL BE EXECUTED IN SUCH MANNER AS TO FULLY PROTECT THE STRUCTURE. ALL OTHER TRADES WORKING ON THE PROJECT AND THE SURROUNDING AREAS FROM HAZARDOUS CONDITIONS. ALL WORK WILL PROCEED FOLLOWING ALL LOCAL, STATE AND FEDERAL SAFETY CODES, STATUTES AND RECOGNIZED STANDARDS. ALL PROCEDURES OF CONSTRUCTION AND ERECTION WHICH ARE UNDERTAKEN WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE ARCHITECT ARE THE SOLE RESPONSIBILITY OF THE OWNER, CONTRACTOR, SUBCONTRACTOR AND/OR MATERIALMEN EXECUTING SAME AND ARE TO BE ACKNOWLEDGED AS BEING UNDERTAKEN WITHOUT THE ARCHITECT'S KNOWLEDGE OR CONSENT. LASTLY, IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROVIDE CERTIFICATES OF WORKMAN'S COMPENSATION AND PUBLIC LIABILITY INSURANCE NAMING BOTH THE OWNER AND THE ARCHITECT AS BENEFICIARIES UNDER SAID CERTIFICATES, AND THAT THE FILING OF SAID CERTIFICATES SHALL BE A CONDITION PRECEDENT TO ACCEPTANCE OF ANY WORK PERFORMED ON THE PROJECT.

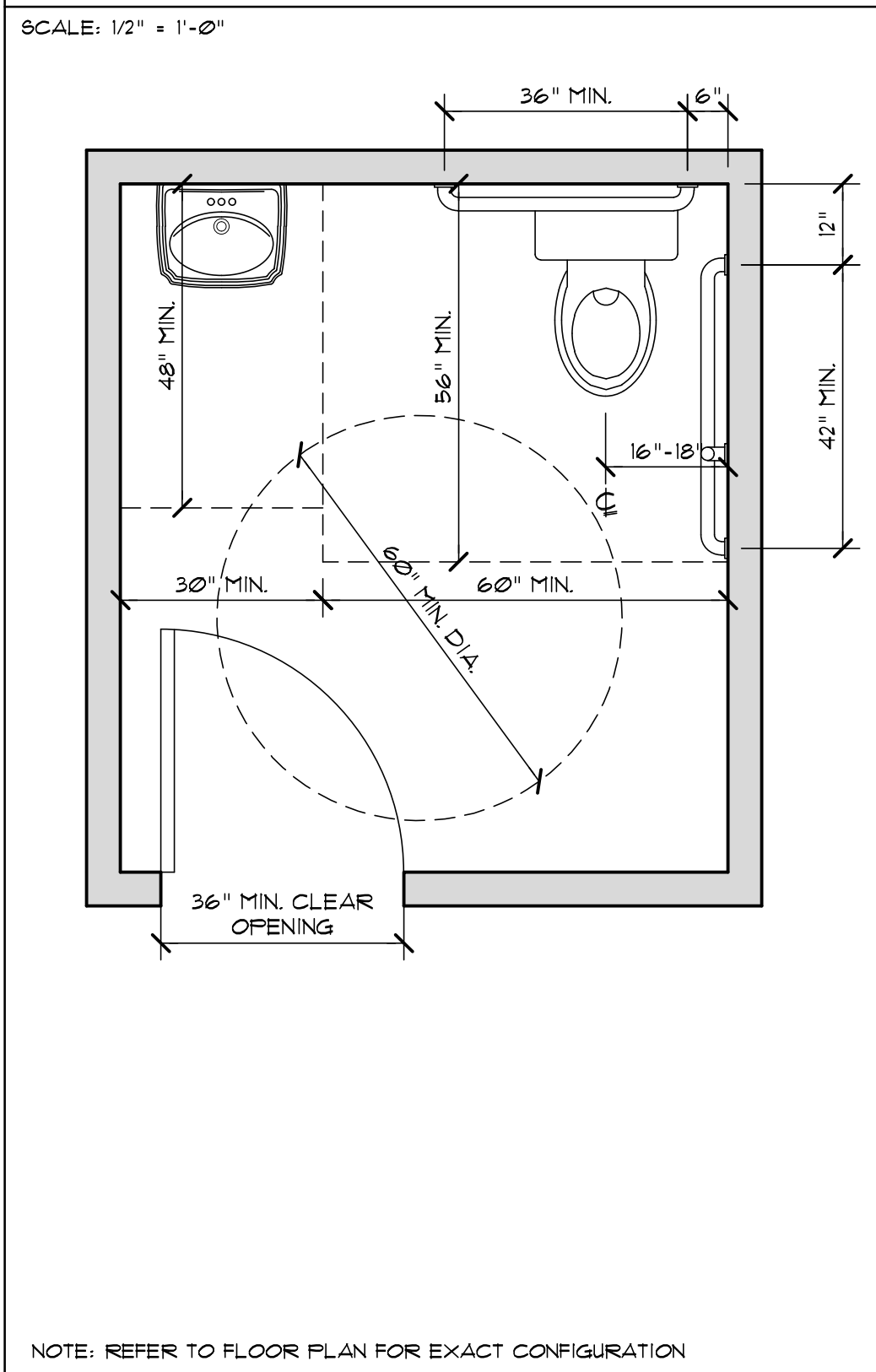
DRAWING INDEX:

TS	TITLE SHEET
A1	GENERAL NOTES AND DETAILS
A2	PROPOSED FLOOR PLAN
A3	KITCHEN PLAN & EQUIPMENT SCHEDULE
M1	MECHANICAL PLAN
E1	LIGHTING PLAN
E2	POWER PLAN
P1	PLUMBING PLAN

MANEUVERING CLEARANCES AT SWINGING DOORS:



SAMPLE TOILET ROOM



ACCESSORY NOTES:

1. VERIFY ACCESSORIES REQUIRED WITH OWNER
2. INSTALL ALL ACCESSORIES PER A.D.A. AND 2003 B.F. DESIGN REQUIREMENTS.
3. PROVIDE CONCEALED BLOCKING IN WALL AS REQUIRED.
4. ACCESSORIES TO BE CHROME FINISH, UNO.
5. PROVIDE PIPE INSULATION ON EXPOSED SUPPLY AND WASTE PIPES.
6. CAULK ALL PLUMBING FIXTURES TO WALLS.
7. SEE BARRIER FREE TOILET ROOM NOTES.

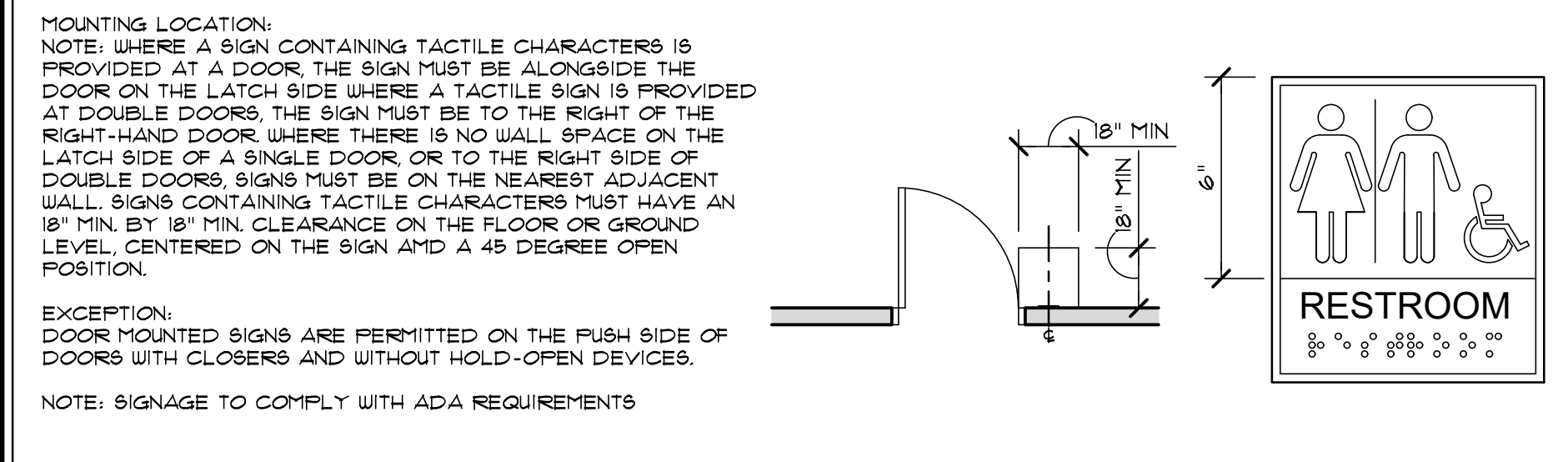
DOOR NOTES:

1. ALL DOORS TO BE NON-LOCKING AGAINST EGRESS.
2. DOORS TO HAVE LEVER HANDLES.
3. DOOR HARDWARE SHALL BE CAPABLE OF OPERATION WITH THE USE OF (1) HAND AND SHALL NOT REQUIRE TIGHT PINCHING, TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE.
4. THUMB TURN DEADBOLTS ARE PROHIBITED. LEVER OR PADDLE DEADBOLTS ARE ACCEPTABLE.
5. ALL EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT A KEY OR SPECIAL KNOWLEDGE.
6. ALL EXISTING DOORS TO BE KEYED ALIKE AS DIRECTED BY OWNER.
7. DOOR THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT. THRESHOLDS EXCEEDING 1/4" IN HEIGHT SHALL HAVE A 1/2 BEVEL.
8. DOOR CLOSERS SHALL MEET OPENING FORCE & SLEEP PERIOD REQUIREMENTS.
9. ALL EXTERIOR & TOILET ROOM DOORS HAVE TO HAVE CLOSERS.

DOOR SCHEDULE:

DOOR NUMBER	DOOR SIZE					DOOR					FRAME					HARDWARE SET	REMARKS
	3'-0"x7'-0" SWING VARIES	3'-0"x7'-0" R.H. SWING	3'-0"x7'-0" L.H. SWING	PAIR 3'-0"x7'-0"	5	1	2	3	4	5	1	2	3	4	5		
1						3	EXISTING DOOR TO REMAIN									2	
2						3	FULL GLASS ENTRY									3	
3						N/A	HOLLOW CORE METAL									N/A	SUPPLIED BY COOLER MANUFACTURE
4							SOLID CORE WOOD										
5							OTHER										
6							EXISTING FRAME TO REMAIN										
7							METAL (KNOCKDOWN)										

TACTILE SIGNAGE NOTES:



BARRIER FREE TOILET ROOM NOTES:

CLEAR FLOOR SPACE: EACH TOILET ROOM HAS A CLEAR FLOOR AREA WHICH IS 60 INCHES IN DIAMETER. THIS AREA IS NOT TO BE INFRINGED UPON BY THE SWING OF THE ROOM ENTRANCE DOOR.

LAVATORY (B.F. LAV.): TO BE MOUNTED AT 29 INCHES CLEAR HEIGHT BELOW AND MAX HEIGHT OF TOP AT 34 INCHES. IT SHALL PROJECT A MINIMUM OF 11 INCHES FROM THE WALL. FAUCETS TO BE LEVER (2 INCHES MINIMUM) OR PUSH BOTTOM TYPE. IF MOUNTED IN A COUNTER THE FRONT FACE OF THE BOUL. SHALL BE 3 INCHES OR LESS FROM THE FRONT OF THE COUNTER AND THE FAUCET CONTROLS SHALL BE WITHIN 18 INCHES OF THE FRONT OF THE COUNTER. A CLEAR FLOOR SPACE OF 30 INCHES WIDE BY 48 INCHES IS SHOWN AT THE HOT WATER AND DRAIN PIPES. MUST BE INSTALLED OR COVERED, WHERE VALVES ARE SELF CLOSING. PROVIDE THAT THE VALVE REMAIN OPEN FOR AT LEAST 10 SECONDS. PROVIDE ABOVE APPROVED TEMPERING VALVE.

WATER CLOSET (B.F. W.C.): BARRIER FREE WATER CLOSET SEATS TO BE AT 17-19 INCHES ABOVE FINISHED FLOOR HEIGHT. THEY SHALL BE LOCATED 16-18 INCHES FROM THE CENTER LINE TO ONE SIDE WALL. FLUSH CONTROL SHALL BE A MAXIMUM OF 36 INCHES ABOVE FINISHED FLOOR HEIGHT AND ON THE WIDE SIDE OF THE TOILET AREA.

URINAL: MUST BE A STALL TYPE OR A WALL HUNG TYPE WITH THE RIM AT 11 INCHES MAXIMUM ABOVE THE FLOOR LEVEL. A CLEAR FLOOR SPACE OF 30 INCHES MINIMUM WIDE BY 48 INCHES MINIMUM DEEP POSITIONED FOR A FORWARD APPROACH MUST BE PROVIDED. URINAL FLUSH CONTROLS MUST BE HAND OPERATED OR MUST BE AUTOMATIC.

URINAL STALLS (HC UR): STALLS SHALL BE AT LEAST 36 INCHES CLEAR WIDTH BETWEEN SIDEWALLS OR PRIVACY SHIELDS.

B.F. W.C. HANDRAILS (H.R.): ALL TO BE 1-1/4 INCHES TO 1-1/2 INCHES ROUND WITH 1/2 INCHES CLEAR TO WALL. PROVIDE ONE AT B.F. W.C. SIDE 42 INCHES LONG AND MOUNTED AT 33 INCHES ABOVE FINISHED FLOOR HEIGHT WITH THE REAR END POSITIONED 15 INCHES FROM THE BACK WALL. PROVIDE ONE AT REAR WALL, AT LEAST 36 INCHES LONG AND MOUNTED 33 INCHES ABOVE FINISHED FLOOR HEIGHT AND A CENTERED FORCE OF 250 POUNDS, HORIZONTAL FORCE OF 250 POUNDS AND A DEFLECTION NOT TO EXCEED 1/2 INCHES.

TOILET PAPER DISPENSERS: MOUNT 11 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET. THE OUTLET OF THE DISPENSER MUST BE 15 INCHES AND 48 INCHES MAXIMUM ABOVE THE FLOOR LEVEL. THERE IS TO BE A CLEARANCE OF 1-1/2 INCHES MINIMUM BELOW AND 12 INCHES MINIMUM ABOVE THE GRAB BAR. DISPENSERS ARE NOT TO BE OF A TYPE THAT CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.

MIRRORS: MOUNT ALL AT MAXIMUM OF 40 INCHES BOTTOM EDGE TO FLOOR AND MINIMUM 12 INCHES TOP EDGE TO FLOOR.

ACCESSORIES: ALL TO BE MOUNTED AT 40 INCHES MAXIMUM TO THE CENTER OF THE DISPENSING ORIFICE OR CONTROL. B.F. ACCESSORIES SHALL NOT BE LOCATED WITHIN 24 INCHES OF A CORNER.

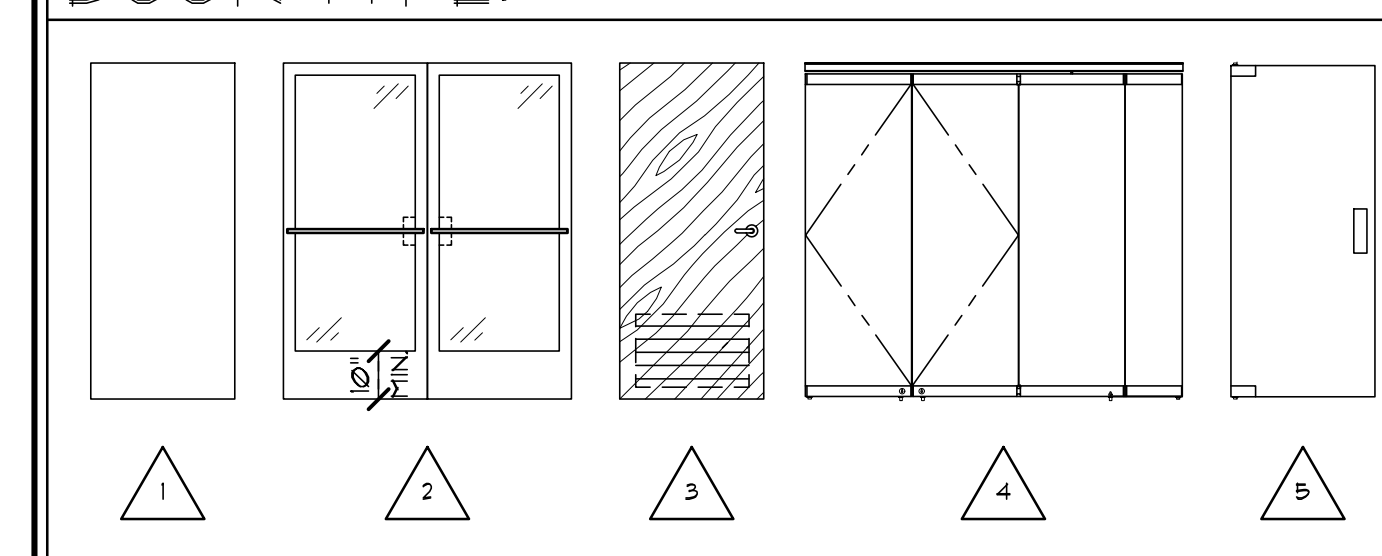
WATER TEMP: MAXIMUM WATER TEMPERATURE TO ANY FIXTURE TO BE 120 DEGREES F.

SIGNAGE: THE CHARACTER PROPORTION OF THE LETTERS AND NUMBERS ON SIGNS MUST HAVE A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10. CHARACTERS AND SYMBOLS MUST CONTRAST WITH THERE BACKGROUND (LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND) AND BE A NON-GLARE FINISH. RAISED OR INDENTED CHARACTERS OR SYMBOLS ON SIGNS MUST BE RAISED OR INDENTED 1/32 INCH MINIMUM AND SHOULD BE SANS SERIF CHARACTERS. RAISED CHARACTERS OR SYMBOLS MUST HAVE A STROKE WIDTH OF AT LEAST 1/4 INCH. SYMBOLS OF ACCESSIBILITY MUST BE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. INTERIOR SIGNAGE MUST BE LOCATED ALONG SIDE THE DOOR ON THE LATCH SIDE AND BE MOUNTED 60 INCHES ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN.

GENERAL NOTE: ALL EQUIPMENT TO BE OPERABLE WITH ONE HAND AND WITHOUT TWISTING OF THE WRIST.

OPERABLE PARTS: ALL OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE FIVE (5) POUNDS MAX. THIS SHALL INCLUDE, BUT NOT LIMITED TO, FAUCETS AND SOAP DISPENSERS.

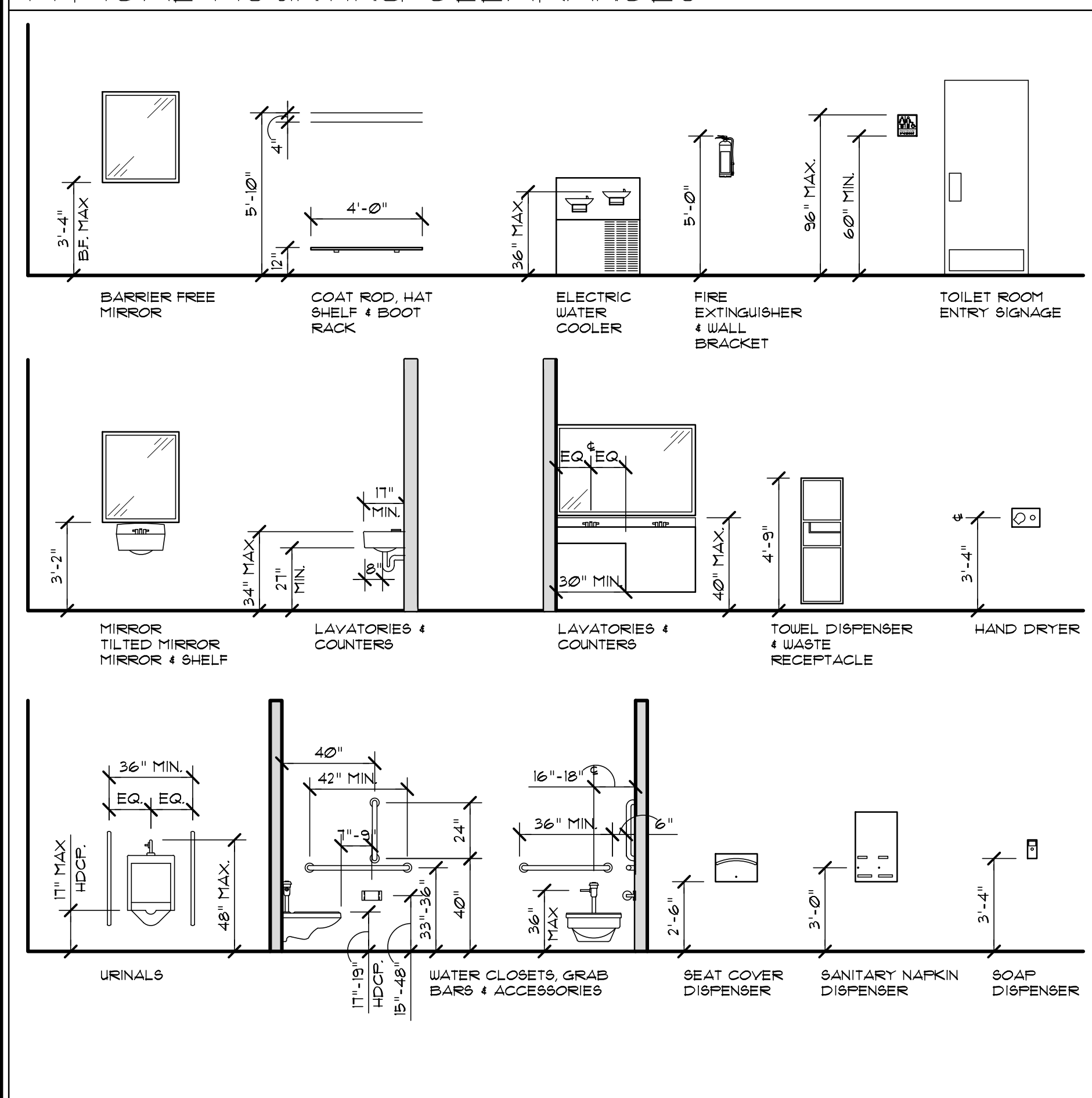
DOOR TYPE:



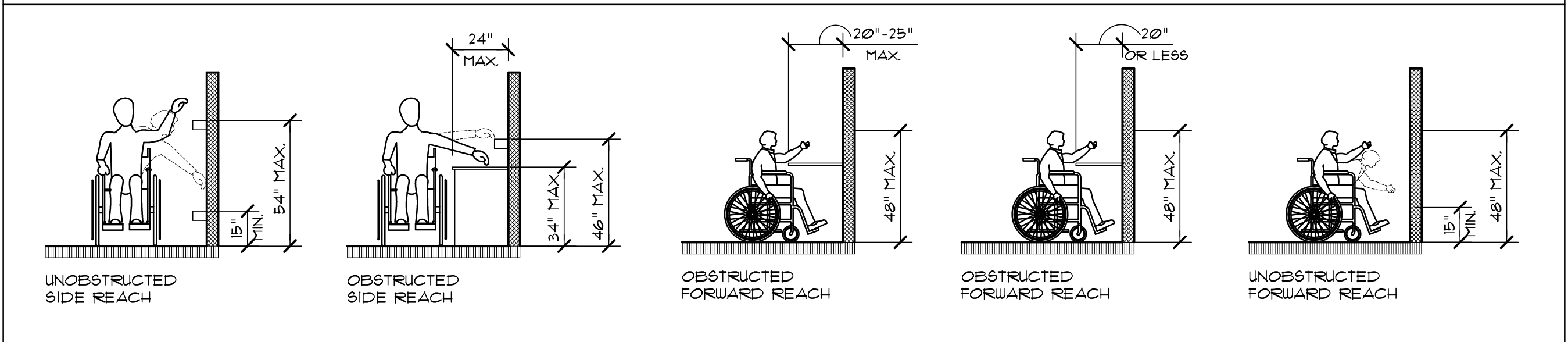
NOTES:

1. DOOR TYPE 3 TO RECEIVE LOUVER AT MECHANICAL ROOM CONDITION ONLY.
2. NANA WALL SYSTEM HARDWARE BY MANUFACTURER
3. VERIFY DOOR HARDWARE REQUIREMENTS

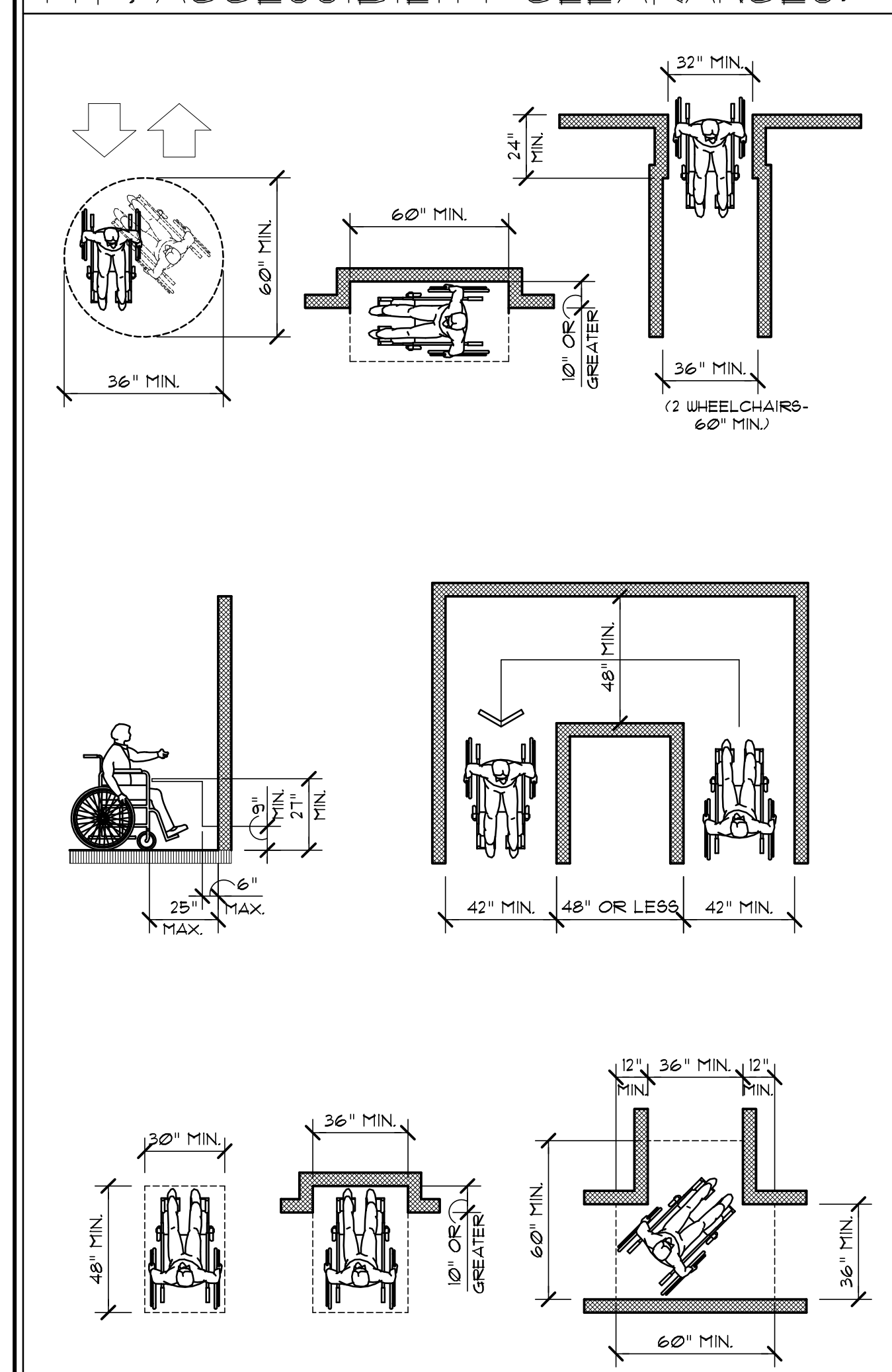
TYPICAL MOUNTING CLEARANCES:



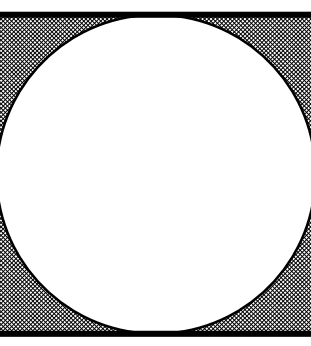
TYPICAL REACH RANGES:



TYP. ACCESSIBILITY CLEARANCES:



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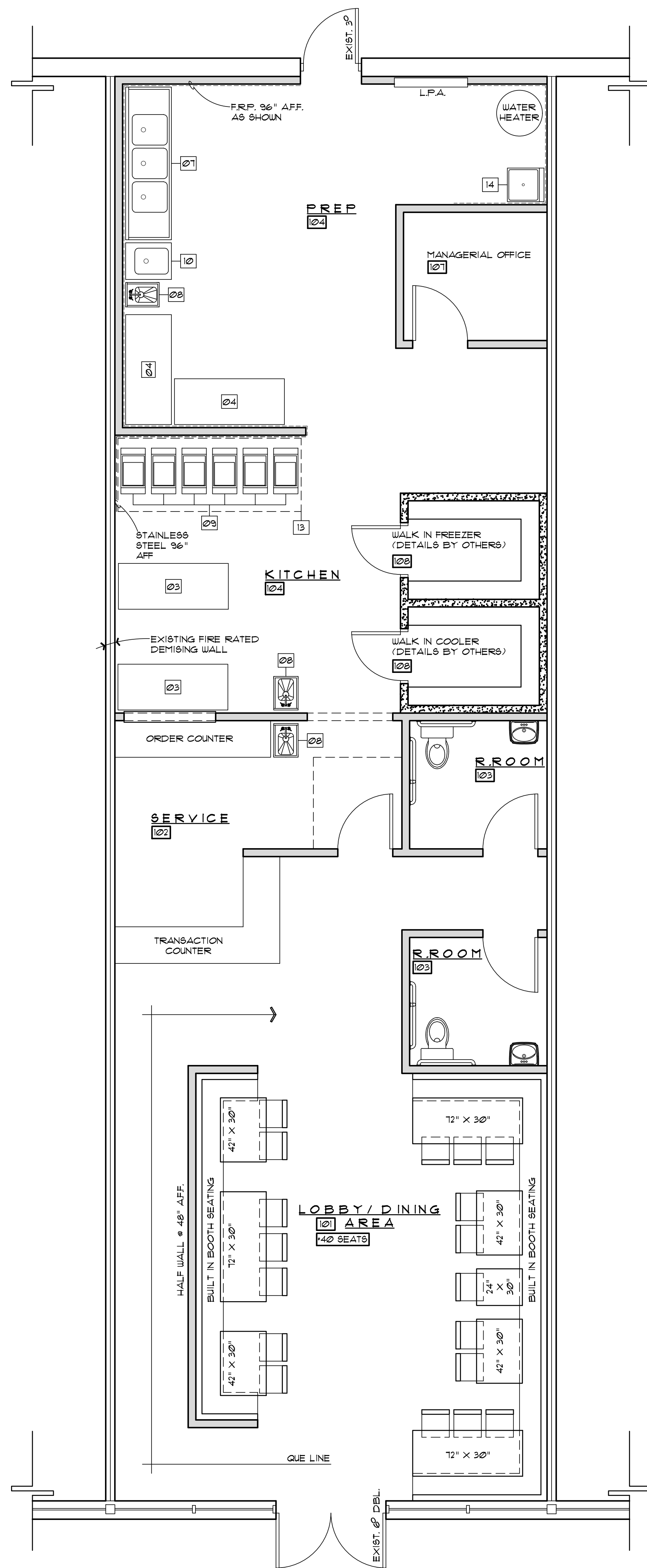


PROJECT:
JINGSNOB STERLING HEIGHTS
THE AVENUE RETAIL CENTER
TENANT "C"
34700 VAN DYKE AVE.
STERLING HEIGHTS, MI 48312

CLIENT:
JACK MASHINI & BRIAN SHUNIA
8424 E. 12 MILE ROAD
WARREN, MI, 48093
PHONE: 248.508.0444

DATE: 10/17/18
DUG BY: TAB, VVD
JOB NO: 180246
CHK BY: TAB, VVD

(SHEET NUM.)
A1
(OF)
3



KITCHEN / EQUIPMENT PLAN
 SCALE: 1/4" = 1'-0" TOTAL S.F. 1,921 S.F.

WALL LEGEND

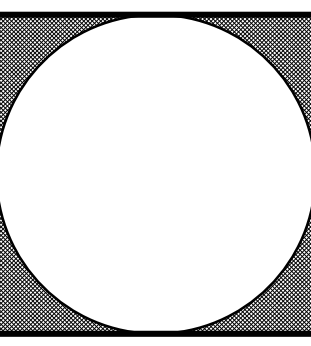
- NEW INTERIOR WALL: 5/8" GYP. BD. AT EACH SIDE OF METAL STUDS @ 16" O. C.
- EXISTING WALL TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING WALL TO BE REMOVED.
- NEW EXTERIOR WALL, BLOCK C. M. U. SEE NOTES PER CONDITION.

EQUIPMENT SCHEDULE:

INDICATES EQUIPMENT CALLOUT

#	DESCRIPTION	MANUFACTURER	MODEL NO.	ELEC. REQUIREMENTS				PLUMBING REQUIREMENTS				
				AMPS	WATTS	H.P.	VOLTS	WATER		DRAIN		GAS
								HOT	COLD	DIRECT	IND.	BTU'S
1	60" x 30" STAINLESS PREP TABLE	PER OWNER	PER OWNER									
2	18" DEEP VINYL COATED WIRE SHELVING	PER OWNER	PER OWNER									
3	72" x 30" STAINLESS PREP TABLE	PER OWNER	PER OWNER									
4	72" VINYL COATED WIRE RACK	PER OWNER	PER OWNER									
5	..											
6	..											
7	3 COMPARTMENT SINK	PER OWNER	PER OWNER					1/2"	1/2"		2"	
8	HANDBINK	TRADE ADVANTAGE	MK81-H					1/2"	1/2"	2"		
9	FRYER	COPPER BEECH	CGF-40-NG				120					90,000
10	VEGGIE SINK	PER OWNER	PER OWNER					1/2"	1/2"		2"	
11	SLIM TRASH CONTAINER	PER OWNER	PER OWNER									
12	UNDER COUNTER DELI CASE	FEDERAL INDUSTRIES	ITR 3626	8.6	1000	0.5	120					
13	120" x 48" EXHAUST HOOD	PER OWNER	PER OWNER									
14	MOP SINK	PER OWNER	PER OWNER					1/2"	1/2"		2"	

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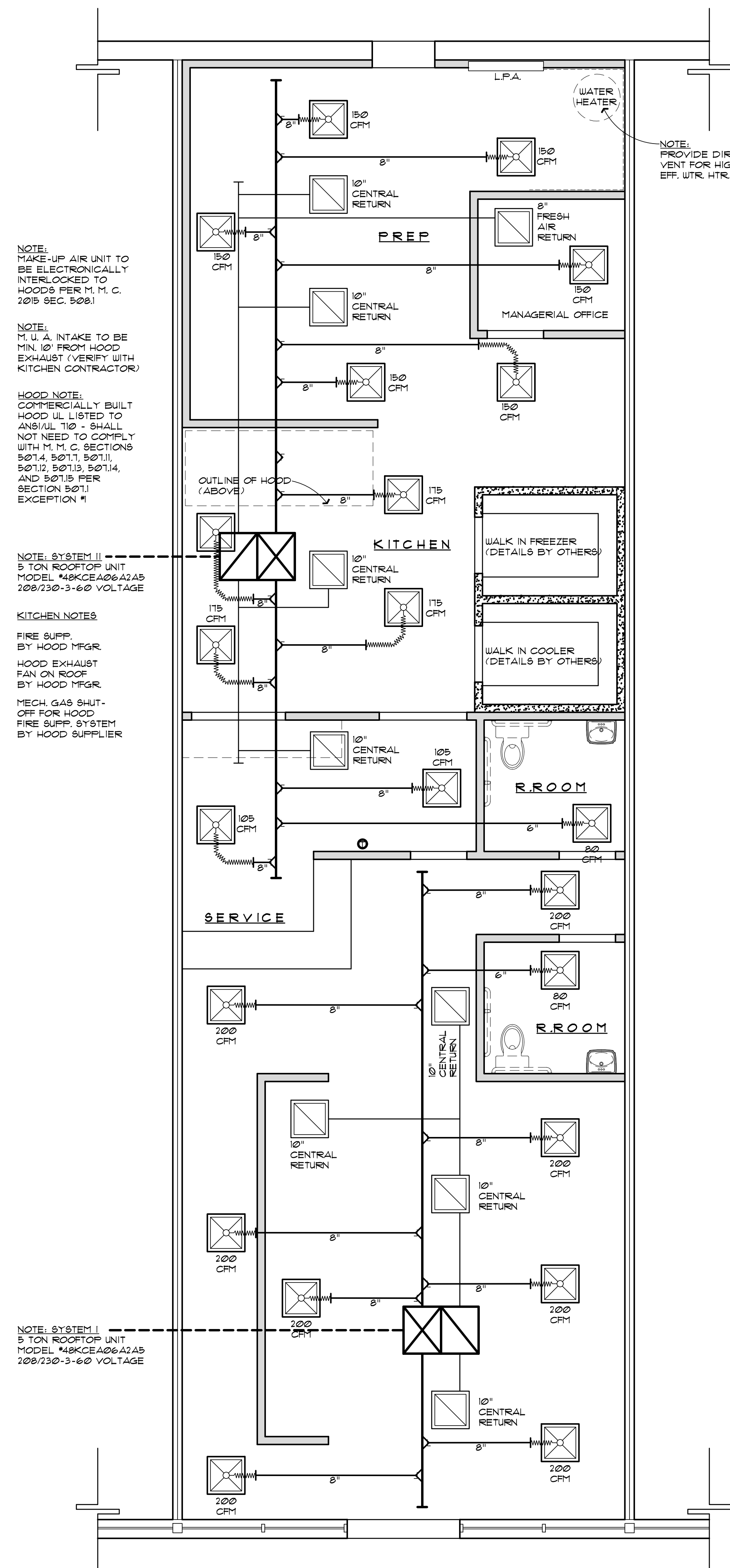


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DATE: 10/17/18
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JOB NO: 180246
CHK BY: TAB, VVD

(SHEET NUM.)
A3
 (OF)
3



NOTE: MAKE-UP AIR UNIT TO BE ELECTRONICALLY INTERLOCKED TO HOODS PER M. M. C. 2015 SEC. 502.1

NOTE: M. U. A. INTAKE TO BE MIN. 10' FROM HOOD EXHAUST (VERIFY WITH KITCHEN CONTRACTOR)

HOOD NOTE: COMMERCIAL BUILT HOOD UL LISTED TO ANSI/UL 710 - SHALL NOT NEED TO COMPLY WITH M. M. C. SECTIONS 507.4, 507.11, 507.13, 507.14, AND 507.15 PER SECTION 507.1 EXCEPTION #1

NOTE: SYSTEM II 5 TON ROOFTOP UNIT MODEL 48KCEA06A2A5 208/230-3-60 VOLTAGE

KITCHEN NOTES
FIRE SUPP. BY HOOD MFR.
HOOD EXHAUST FAN ON ROOF BY HOOD MFR.
MECH. GAS SHUT-OFF FOR HOOD FIRE SUPP. SYSTEM BY HOOD SUPPLIER

NOTE: SYSTEM I 5 TON ROOFTOP UNIT MODEL 48KCEA06A2A5 208/230-3-60 VOLTAGE

MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

TOTAL SF. 1,921 SF.

NOTE: OWNERSHIP OF PANELS IS BY DETROIT EDISON CO.

HVAC/ MECHANICAL NOTES:

1. CODE - ALL WORK TO COMPLY WITH 2015 MICHIGAN MECHANICAL CODE AND INTERNATIONAL FUEL GAS CODE 2012.
2. DESIGN- THE HEATING SYSTEM DESIGN ON THESE DRAWINGS IS PROVIDED ONLY FOR THE PURPOSES OF INDICATING THE SCOPE OF THE WORK. THE HEATING CONTRACTOR IS RESPONSIBLE FOR PREPARING AN ENGINEERED LAYOUT IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL SYSTEMS CONTRACTORS ASSOCIATION (NESCA) MANUALS AND THE ASHRAE STANDARD 90-15 ENERGY CODE FOR THE LOCALITY WHERE THE PROJECT IS TO BE CONSTRUCTED. USE THE FOLLOWING DESIGN TEMPERATURES: HEATING - INSIDE 72 DEGREES F, OUTSIDE 0 DEGREES F, COOLING - INSIDE 72 DEGREES F, OUTSIDE 92 DEGREES F. THE HEATING CONTRACTOR IS RESPONSIBLE FOR THE PROPER OPERATION OF THE SYSTEM.
3. SPIRAL WOUND DUCTS TO DIFFUSERS TO BE SIZED AS FOLLOWS:
0-100 CFM - 6" ROUND
101-200 CFM - 8" ROUND
201-350 CFM - 10" ROUND
4. INSULATION- ALL TRUNK AND BRANCH RUNS IN AREAS OUTSIDE THE INSULATED PERIMETER (ATTICS AND UNINSULATED CRAWL SPACES) AND AIR CONDITIONING DUCTS RUN THROUGH AREAS WHICH ARE NOT AIR CONDITIONED TO BE INSULATED WITH MINIMUM R-5, 15" DUCT INSULATION.
5. EXHAUST FANS- PROVIDE AND INSTALL EXHAUST FANS AS NEEDED SO THAT THE EXHAUST RATINGS SHOWN ON THE PLANS ARE RESULTS AT THE EXHAUST GRILLE WITHIN THE ROOM. EACH FAN TO BE DUCTED TO THE EXTERIOR.
6. GAS SERVICE- PROVIDE NATURAL GAS SERVICE TO ROOF TOP HVAC UNIT SHOWN.
7. RETURN AIR FOR ROOF TOP UNIT TO BE DUCTED TO UNIT.
8. "HVAC" UNITS EACH TO BE GAS FIRED HEATING AND ELECTRIC COOLING WITH PREFAB CURBS TO MATCH.
9. SMOKE DETECTORS ARE TO BE PROVIDED ON EACH HVAC UNIT WITH MORE THAN 2000 CFM RETURN AIR. THEY SHALL BE INSTALLED IN THE RETURN AIR SYSTEM PER THE LOCAL MECHANICAL CODE. DETECTORS TO BE ACCESSIBLE AND UPON ACTIVATION TO STOP THE FAN AUTOMATICALLY.
10. NEW GAS FIRED HOT WATER HEATER TO BE VENTED AS REQUIRED. PROVIDE COMBUSTION AIR AS REQUIRED.
11. HEATING, VENTILATING AND AIR CONDITIONING CONTROLS- PROVIDE A COMPLETE SYSTEM OF CONTROLS WITH A REMOTE STAT TO CONTROL TEMPERATURE. SEE ELECTRICAL PLANS FOR THERMOSTAT LOCATIONS. STAT TO HAVE A HEAT/COOL SWITCH FOR MANUAL TRANSFER AT THE STAT. STAT TO HAVE FAN - ON/AUTO SWITCH FOR SELECTING FAN TO RUN CONTINUOUSLY AND UNIT SHALL PROVIDE HEAT OR COOLING AS THE STAT DEMANDS OR FAN SHALL RUN INTERMITTENTLY WITH STAT DEMAND. SYSTEM TO BE DESIGNED TO PROVIDE FOR 35% FRESH-AIR MAKE-UP UNDER NORMAL OPERATING CONDITIONS.
12. DUCTWORK- CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF DUCTWORK, SUPPORTS, INSULATION, DUCT DAMPERS FOR COMPLETE TRUCK LINE AND BRANCH DUCT WORK CONTROL, AND REMOTE YOUNGE REGULATORS FOR DUCTS RUNNING CONCEALED IN FINISHED AREAS. ALL WORK TO BE REGULATED BY THE STANDARDS OF THE A.S.H. 4 V. ENGINEERS GUIDE AND SPECIFICATIONS.
13. VERIFY COMPLETE SCOPE OF WORK WITH THE OWNER.
14. PROVIDE OWNER WITH MAINTENANCE CONTRACT FOR ALL (3) EXISTING ROOF TOP UNITS.
15. VERIFY WITH OWNER FINAL THERMOSTAT LOCATIONS, ZONES, CONTROLS, ETC.

MAKE UP AIR UNIT - NEW

MODEL	CFM	WEIGHT	RPM	HEATING			ELECTRIC	REMARKS
				FUEL	INPUT BTU'S	PRESS		
ADM1-D.250-G10	2500	550 LBS	1084	NATURAL GAS	229210	7" W.C.	208 VOLT 3 φ	

- NOTE:
1. INSULATED WEATHERPROOF CABINET, 100% OUTSIDE AIR HOOD, TWO POSITION LOW LEAKAGE DISCHARGE DAMPER INTERLOCKED WITH UNIT & A FAN OPERATION. INSULATED ROOF CURB, VERTICAL DOWN DISCHARGE, 2" CLEANABLE ALUMINUM MESH FILTERS, FM CONTROLS WITH MINIMUM 15-1 TURNDOWN MODULATING GAS VALVE, SPARK IGNITION PILOT, NF DISCONNECT SWITCH, AND SINGLE POINT POWER CONNECTION.
 2. AIR PROVING SWITCH HIGH AND LOW TEMPERATURE SUPPLY AIR DUCT THERMOSTATS WITH START UP TIME DELAY, OUTSIDE AIR BURNER LOCKOUT THERMOSTAT, DISCHARGE THERMOSTAT WITH REMOTE ADJUSTMENT IN CONTROL PANEL MOUNTED AT RIGHT END OF HOOD H/2.
 3. REFER TO RESPONSIBILITY SCHEDULE ON COVER SHEET TO DETERMINE WHO PROVIDES, INSTALLS, AND WIRES UTILITY CONNECTIONS TO MAKE-UP AIR UNIT.

ROOFTOP UNIT PERFORMANCE SCHEDULE

MARK	MODEL	NOMINAL TONS	STANDARD CFM	NET COOLING CAPACITY (BTUH)	TOTAL KW	SEER		SOUND RATING
						BELT DR.	DIR DR.	
RTU-1	48KCEA06A2A5	5	2000 / 2500	60,000	3.31	YES		11 DBA
RTU-2	48KCEA06A2A5	5	2000 / 2500	60,000	3.31	YES		11 DBA

AIR BALANCE SCHEDULE

UNIT	OUTSIDE AIR FLOW (CFM)	RETURN AIR FLOW (CFM)	SUPPLY AIR FLOW (CFM)	EXHAUST AIR FLOW (CFM)	BUILDING PRESSURE (CFM)
RTU-1	600	1900	2500	-15	01
RTU-2	600	1900	2500	-15 + HOOD	01
M.U.A.U.-1	2500	0	2500	0	2500
EF-1 HOOD	0	0	0	-2150	0
EF-1	0	0	0	-15	0
EF-2	0	0	0	-15	0
FRESH AIR REQ.	920				

RESULTING BUILDING PRESSURIZATION (CFM) ---

OVERALL BUILDING PRESSURIZATION SHALL BE APPROXIMATELY --- W.C. POSITIVE

REQUIRED FRESH AIR CALCULATION:

PROVIDE THE REQUIRED OUTDOOR AIR PER TABLE 403.3.11 PER THE MMC 2015	FAST FOOD/ KITCHEN	
OCCUPANT DENSITY */1000 SQ. FT. (KITCHEN)	EXHAUST AIRFLOW RATE (CFM)/FIXED SEAT DINING)	EXHAUST AIRFLOW RATE (CFM)/ SQ. FT. KITCHEN)
100 OCC'S PER 1,000 NET OCCUPIABLE SQ. FT. = 155 SF. / 100 = 15 OCCUPANTS	20 CFM / OCCUPANT 20 CFM * 40 OCC'S = 800 CFM	15 CFM / OCCUPANT 15 CFM * 8 OCC'S = 120
RTU - 2 (5 TON - 2500 CFM) * 50% MAX FRESH AIR INTAKE = 1250 CFM FRESH AIR		
NOTE: BUILDING FRESH AIR PROVIDED IS ADEQUATE PER 2015 MMC, TABLE 403.3.11		

COMMERCIAL EXHAUST HOOD - TYPE I

MARK	MODEL	ANSI/ UL LISTING
HOOD 1	5424 ADMX-2-PSP-F	

NOTE:
1. HOOD SPECS TO BE PROVIDED BY OWNER UPON INSPECTION/APPROVAL

MECHANICAL LEGEND

MARK	DESCRIPTION
CD-2	AIR SUPPLY DIFFUSER - 12" X 12"
CD-1	AIR SUPPLY DIFFUSER - 24" X 24"
RG-2	AIR RETURN GRILL - 4" X 24"
RG-1	AIR RETURN GRILL - 24" X 24"
⊕	THERMOSTAT AT 60° AFF.

EXHAUST FANS

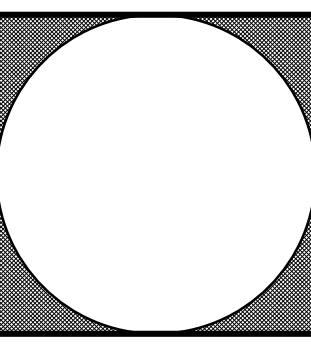
MARK	CFM	S.P.	RPM	BHP	MAKE/ MODEL	REMARKS
EF-1	75	.125	1050	1/200 HP	GREENHECK G-060-E	REM. SPEED CONTROL
EF-2	75	.125	1050	1/200 HP	GREENHECK G-060-E	REM. SPEED CONTROL
EF-1 HOOD	2150		967	0.6860 / 1.000	5424 ADMX-2-PSP-F	REM. SPEED CONTROL

NOTE:
SITE ASSEMBLED WALK IN COOLERS AND FREEZERS SHALL CONFORM TO A THRU L. MICHIGAN ENERGY CODE 2015 & ASHRAE 90.1-2013 SECT. 6.4.5

NOTE:
VENTILATION AND BALANCE SCHEDULE TO BE PROVIDED BY CERTIFIED BALANCING CONTRACTOR PRIOR TO FINAL INSPECTION.

NOTE:
APPROVED SMOKE AND HEAT VENTS TO BE INSTALLED AS REQ'D BY, AND IN ACCORDANCE WITH, THE INTERNATIONAL FIRE CODE.

2:THIRTEEN
ARCHITECTURAL DESIGN & PLANNING
21550 FORT WORTH, MACOMB, MICHIGAN, 48044, TEL: (810) 278-6344.

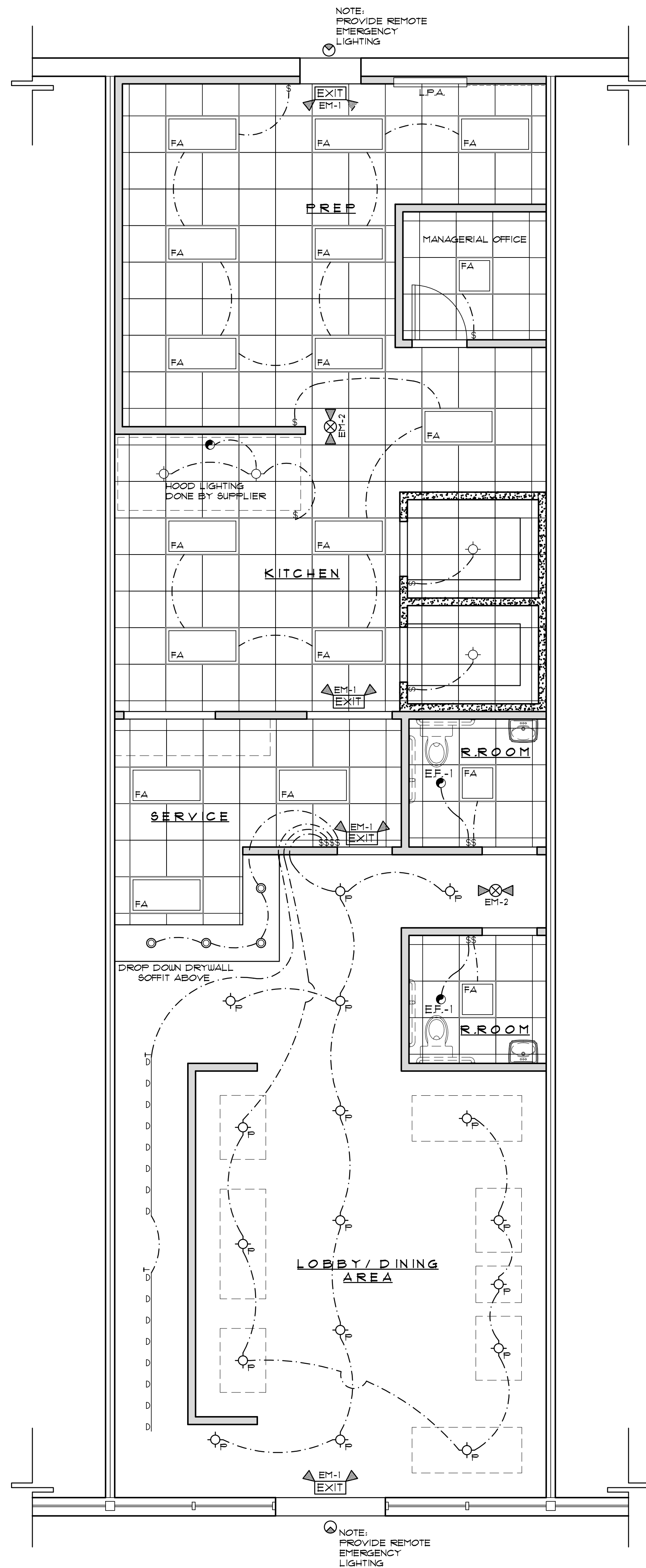


PROJECT:
JINGXIN STERLING HEIGHTS
THE AVENUE RETAIL CENTER
TENANT "C"
34700 VAN DYKE AVE.
STERLING HEIGHTS, MI 48322

CLIENT:
JACK MASHINI & BRIAN SHUNIA
8424 E. 12 MILE ROAD
WARREN, MI 48093

DATE: 10/17/18
DUG BY: TAB, VVD
JOB NO: 180246
CHK BY: TAB, VVD

(SHEET NUM.)
M1
(OF)
1



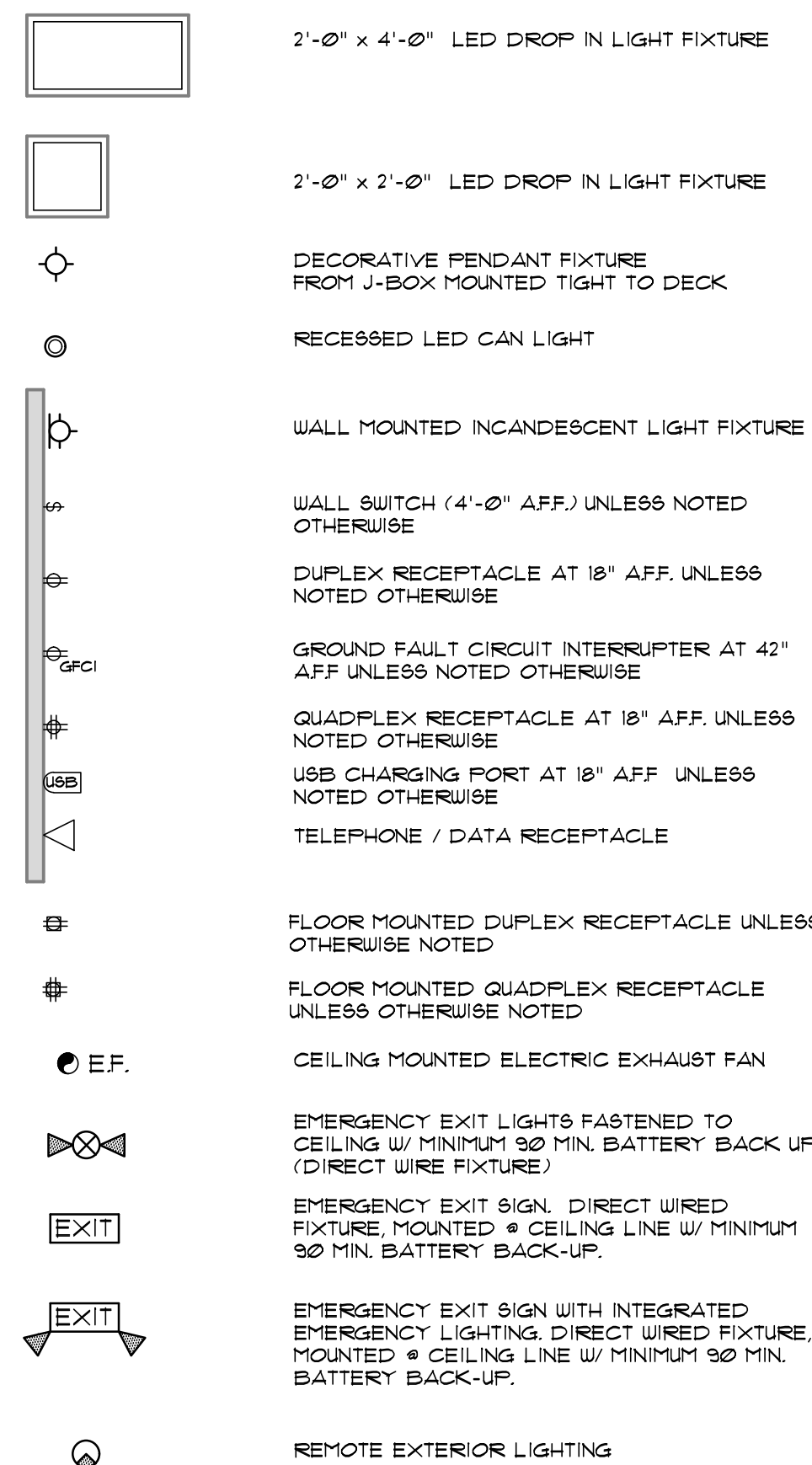
LIGHTING / REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

TOTAL SF. 1,921 SF.

NOTE: OWNERSHIP OF PANELS IS BY DETROIT EDISON CO.

ELECTRICAL LEGEND:

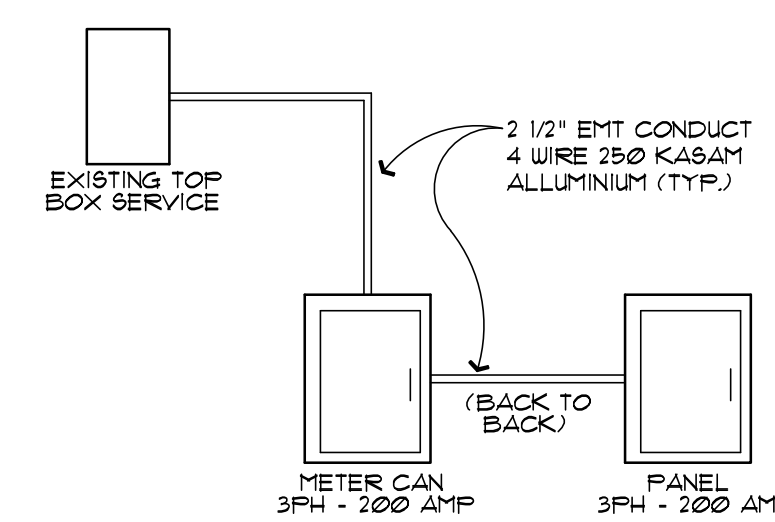


REFLECTED CEILING/ ELECTRICAL NOTES:

1. ALL SUB-TRADES SHALL COORDINATE THEIR WORK WITH WORK OF OTHERS OR WITH EXISTING CONDITIONS OCCURRING ABOVE OR BELOW THE PREMISES AND SHALL MAKE CHANGES FROM TIME TO TIME AS REQUIRED TO ACCOMMODATE SUCH WORK OR CONDITIONS.
2. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, REGULATIONS, AS WELL AS THE RULES AND STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS THE NATIONAL ELECTRIC CODE, NEMA, A.I.E.E. AND OSHA.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION FOR WORK HEREIN SPECIFIED. THE COST OF SUCH PERMITS AND CERTIFICATES SHALL BE INCLUDED IN HIS BID PROPOSAL.
4. THE ELECTRICAL CONTRACTOR SHALL VISIT THE EXISTING SITE AND BUILDING AND SHALL EXAMINE TO THEIR SATISFACTION ALL OF THE PHYSICAL CONDITIONS THAT AFFECT THEIR CONTRACT PRICE, NOTING THE LOCATION OF THE EQUIPMENT.
5. ELECTRICAL CONTRACTOR TO ADVISE HIS DESIGNWORKS OF ANY DISCREPANCIES PERTAINING TO THE INFORMATION INDICATED ON ELECTRICAL PLANS AND THE EXISTING CONDITIONS.
6. ALL ELECTRICAL WORK WITHIN THE PREMISES, UNLESS NOTED OTHERWISE, INCLUDING BUT NOT LIMITED TO ALL LIGHTING FIXTURES WHICH SHALL BE OF A MANUFACTURER APPROVED BY HIS DESIGNWORKS, INCL. ELECTRICAL DISTRIBUTION PANELS, BREAKERS, LIGHTING PANELS, CONDUIT, OUTLET BOXES, SWITCHES, PROVIDING, INSTALLING, AND WIRING FIXTURES AND WALL OUTLETS AS REQUIRED FOR A COMPLETE LIGHTING POWER SYSTEM, AND EMPTY CONDUIT ETC. AS REQUIRED FOR TELEPHONE, SHALL BE BY THE ELECTRICAL CONTRACTOR.
7. ALL ELECTRICAL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED SHALL BE NATIONAL ELECTRICAL CODE STANDARD UNLESS A BETTER GRADE IS MENTIONED HEREIN AND SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.
8. ON COMPLETION OF ELECTRICAL WORK, THE INSTALLATION SHALL BE ENTIRELY FREE FROM GROUNDS AND SHORT CIRCUITS. ALL CIRCUITS SHALL BE RUN OUT AND PROPERLY TICKETED.
9. ELECTRICAL CONTRACTOR SHALL BALANCE LOADS ACROSS BARS IN ALL LIGHT PANELS.
10. ELECTRICAL CONTRACTOR TO WIRE COMPLETE ALL NEW LIGHT FIXTURES, DUPLEX OUTLETS, ETC. AS REQUIRED CONNECTING TO NEW LIGHT PANELS.
11. REPLACE ALL DEFECTIVE OR STICKING CIRCUIT BREAKERS AND FUSES IN EXISTING PANELS AS REQUIRED.
12. ALL NEW PANELBOARD(S) SHALL HAVE A TWENTY (20%) SPARE CAPACITY.
13. ELECTRICAL CONTRACTOR SHALL INSTALL PER CODE, THE REQUIRED AMOUNT OF EMERGENCY LIGHTS AND EXIT LIGHTS.
14. ALL LIGHT FIXTURES TO BE PANEL SWITCHED UNLESS OTHERWISE INDICATED ON THE PLAN(S). VERIFY WITH CLIENT PRIOR TO START OF ELECTRICAL WORK.
15. ELECTRICAL CONTRACTOR TO VERIFY THE COLOR OF RECEPTABLES, SWITCHES COVER PLATES, ETC.
16. MAXIMUM GREENFIELD RUN IS 12'.
17. AFF. (ABOVE FINISH FLOOR) INDICATES THE ELEVATION TO THE CENTER OF THE ELECTRICAL BOX.
18. LOCATIONS SHOWN FOR RECEPTABLES, J-BOXES, ETC. ARE RECOMMENDED LOCATIONS ONLY.
19. ALL WIRING SHALL BE INSTALLED IN CONDUIT.
20. ELECTRICAL CONTRACTOR TO PROVIDE COVER PLATES FOR ALL EXISTING AND/OR NEW WALL OUTLETS AND J-BOXES AS REQUIRED.
21. ALL LIGHT FIXTURES MUST BE INSTALLED USING FLEXIBLE CONDUITS FROM A J-BOX. RIGID CONDUITS ARE NOT ACCEPTABLE.
22. THE CEILING CONTRACTOR SHALL REINFORCE THE CEILING GRID AT THE CORNERS OF ALL 2 X 4 LAY-IN LIGHT FIXTURES AS REQUIRED FOR SUPPORT.
23. FLOOR OUTLETS SHALL BE ROUND, ADJUSTABLE AND WATER TIGHT.
24. ALL ELECTRICAL OUTLETS WITHIN 5'-0" OF WATER SOURCES SHALL BE G. F. I.

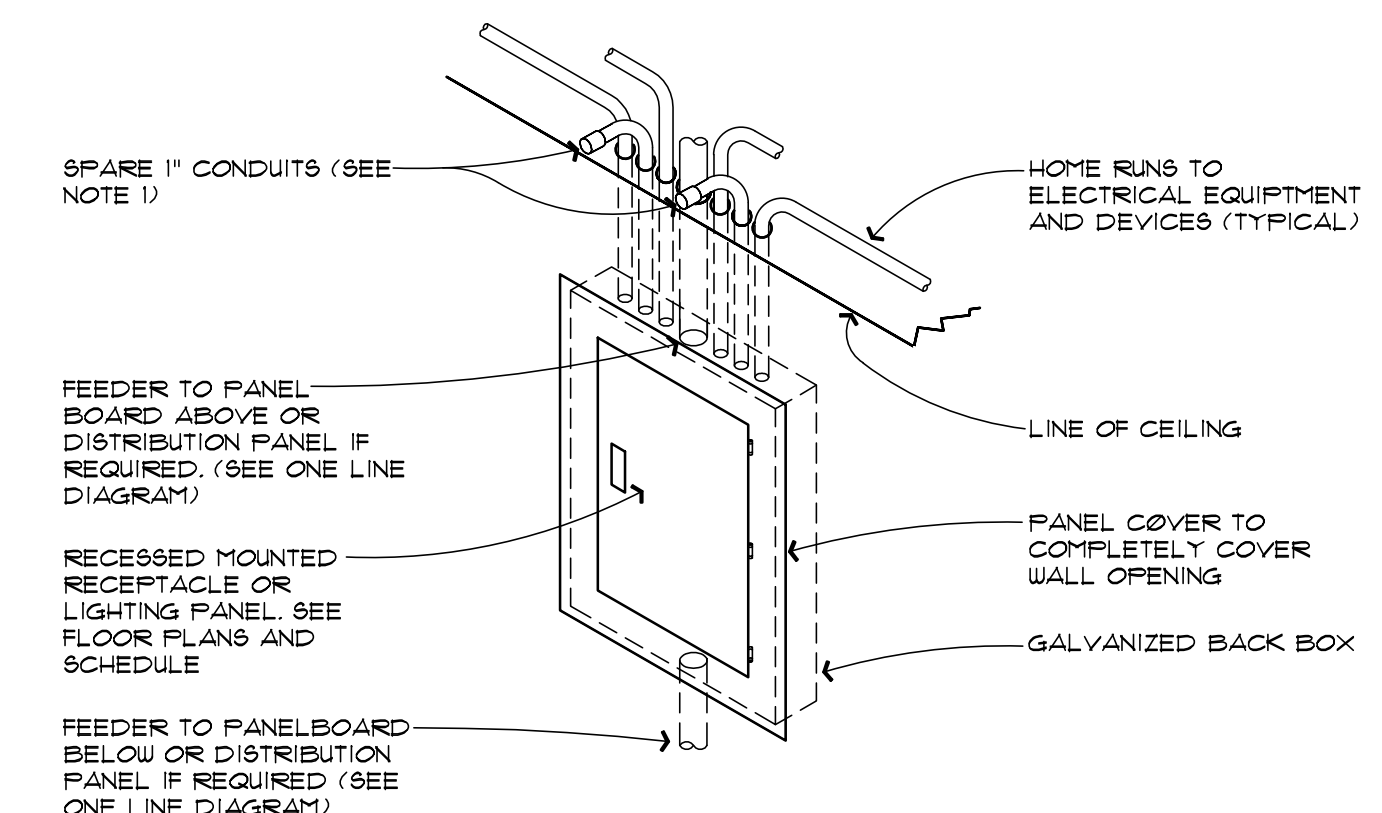
LIGHTING FIXTURE SCHEDULE:

TYPE	QUANTITY	LAMPS	MANUFACTURER	REMARKS
B	4	1-11 W LED	JUNO 6" UNIVERSAL RECESSED LIGHT (ALG6) W/ ETCHED BAFFLE - NO. 243-UH	RECESSED
FA	(15) 2 X 4 (3) 2 X 2	2 - 25 W 1 - 9	DAYBRITE NO. 20DG240-FA01-120	CEILING MOUNTED
T	2	8 - 12 W LED	STYLE PER OWNER NOT TO EXCEED 8'-0" PER STRIP MAX OF 2 ALLOWED PER ASHRAE	CEILING MOUNTED TRACK SYSTEM
P	17	1-11 W LED	PENDANT LIGHT (STYLE PER OWNER)	CEILING MOUNTED
EM-1	4	LED	LED EXIT/EMERGENCY LIGHT COMBO UNIT (LITHONIA LIGHT LED R116)	CEILING / WALL MOUNTED
EM-2	2	LED	LED EMERGENCY LIGHT UNIT (LITHONIA ELM2 LED HQ R112)	CEILING / WALL MOUNTED



ELECTRICAL RISER DIAGRAM

NO SCALE



PANEL BOARD DETAIL

N.T.S.

NOTE: 1. PROVIDE A TOTAL OF (4) SPARE 1" CONDUITS STUBBED & CAPPED

2:THIRTEEN
DESIGNWORKS
Architectural Design & Planning,
21550 FORT WORTH, MACOMB, MICHIGAN, 48044, TEL: (810) 276-6344.

PROJECT:
WINGSNOB STERLING HEIGHTS
THE AVENUE RETAIL CENTER
TENANT "C"
34720 VAN DYKE AVE.
STERLING HEIGHTS, MI 48312

CLIENT:
JACK MASHINI & BRIAN SHUNIA
8424 E. 12 MILE ROAD
WARREN, MI 48093
PHONE: 248.508.0144

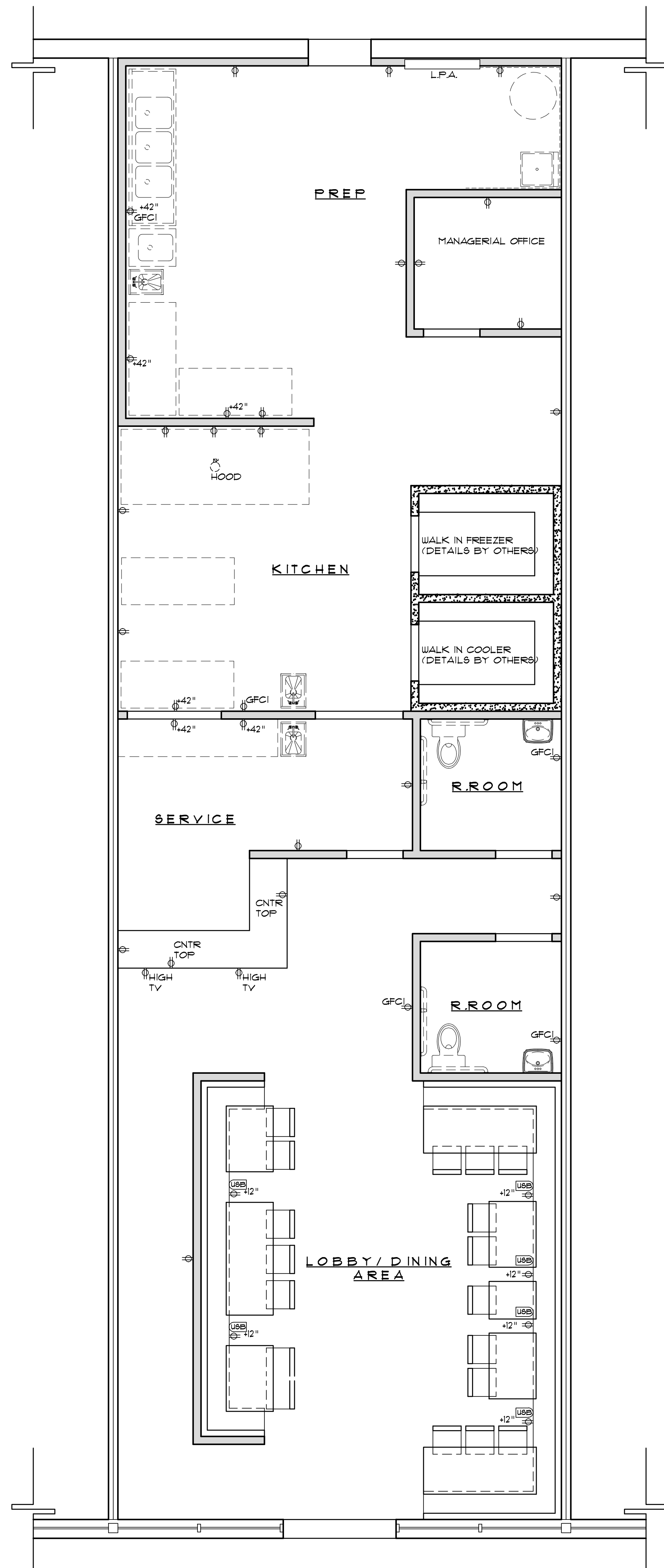
DATE: 10/17/18
DUG BY: TAB, VVD
JOB NO: 180246
CHK BY: TAB, VVD

(SHEET NUM.)

E1

(OF)

2



POWER PLAN

SCALE: 1/4" = 1'-0"

TOTAL SF. 1,921 SF.

NOTE: OWNERSHIP OF PANELS IS BY DETROIT EDISON CO.

ELECTRICAL LEGEND:

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-

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23. FLOOR OUTLETS SHALL BE ROUND, ADJUSTABLE AND WATER TIGHT.
24. ALL ELECTRICAL OUTLETS WITHIN 5'-0" OF WATER SOURCES SHALL BE G. F. I.

NOTE: HOOD SYSTEM

1. INTERCONNECT HOOD SYSTEM CONTROL PANEL WITH HOOD PER MANUFACTURER'S SPECIFICATIONS. CONNECT 120V POWER TO HOOD EQUIPMENT AS REQUIRED BY SPECIFICATIONS. CONNECT HOOD FIRE SUPPRESSION SYSTEM SO THAT UPON ACTIVATION THE GAS SOLENOID VALVE IS OPERATED TO SHUT DOWN GAS FLOW TO THE EQUIPMENT UNDER HOOD.
2. STAND ALONE 120V DUCT DETECTOR PROVIDED, WIRED AND PROGRAMMED BY ELECTRICAL CONTRACTOR (INSTALLED BY MECHANICAL CONTRACTOR). INTERLOCK DETECTOR TO SHUT DOWN RTU UPON ACTIVATION. PROVIDE A REMOTE FLUSH MOUNT IN WALL (1'-0" AFF.) WHERE SHOWN. CONNECT DUCT DETECTOR TO 120V CIRCUIT AND TO REMOTE ANNUNCIATOR PER MANUFACTURER'S SPECIFICATIONS.

NOTE: PANEL SCHEDULE

LIGHTING PANELS SHOW AS REFERENCE ONLY. ELECTRICAL CONTRACTOR TO SUBMIT FINAL LIGHTING PANEL SCHEDULE AS WELL AS LOAD CALCULATIONS CONFIRMING ABIDANCE TO LOCAL CODES AND REGULATIONS TO THE PROPER BUILDING AUTHORITIES FOR FINAL APPROVAL.

NOTE: TABLE OUTLETS

ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATION OF ANY PLUGS TO BE INTEGRATED INTO SEATING.

NOTE: CONTRACTOR WALK

ELECTRICAL CONTRACTOR SHALL WALK THROUGH WITH THE OWNER TO DETERMINE FINAL LOCATIONS OF ALL PLUGS AND ADDITIONAL EQUIPMENT IF DESIRED.

NOTE: LIGHTING PANEL

FINAL PANEL SCHEDULE SHALL BE FILLED OUT USING EXACT SPECIFICATIONS CALCULATED BASED ON SITE CONDITION AND CLIENT WALK THROUGH. THE COMPLETED PANEL SCHEDULE SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO OBTAINING ELECTRICAL PERMIT.

LIGHTING PANEL SCHEDULE:

PANEL A		VOLTS: 120 / 240 V		AMP'S: OUT OF 200 AMP'S	
LOCATION: UTILITY AREA		PHASE: 3-PHASE		MAIN BREAKER: 200 AMP'S	
CIRC. BREAKER	DESCRIPTION	WATTS	CIRC. BREAKER	DESCRIPTION	WATTS
1	30AMP R. T. U. #1	10,800	2	20AMP LIGHTING	600
3	" " " " " "	" "	4	20AMP LIGHTING	600
5	" " " " " "	" "	6	20AMP BATHROOM	1,320
7	30AMP R. T. U. #2	10,800	8	20AMP COUNTERTOP	1,200
9	" " " " " "	" "	10	30AMP FREEZER	10,800
11	" " " " " "	" "	12	" " " " " "	" "
13	20AMP M. U. A.	1,200	14	" " " " " "	" "
15	" " " " " "	" "	16	20AMP COOLER	1,200
17	" " " " " "	" "	18	" " " " " "	" "
19	20AMP FAN #1	1,440	20	" " " " " "	" "
21	20AMP FAN #2	1,440	22	20AMP DELI CASE	1,000
23	20AMP HOOD PLUG	540	24	20AMP PREP AREA	1,200
27	20AMP KITCHEN PLUG	1,200	26	20AMP GENERAL PLUGS	540
29	20AMP KITCHEN GFCI	1,200	28	20AMP GENERAL PLUGS	540
31	20AMP SIGN	1,200	30	20AMP WINDOW PLUGS	540
33			32		
35			34		
37			36		
39			38		
41			40		
			42		

TOTAL WATTS: 61360 TOTAL AMP'S: 110325

2:THIRTEEN
DESIGNWORKS
Architectural Design & Planning,
21550 FORT WORTH, MACOMB, MICHIGAN, 48044, TEL: (810) 278-6344.

PROJECT:
WINGSNOB STERLING HEIGHTS
THE AVENUE RETAIL CENTER
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34700 VAN DYKE AVE.
STERLING HEIGHTS, MI 48312

CLIENT:
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PHONE: 248.508.0144

DATE: 10/17/18
DUG BY: TAB, VVD
JOB NO: 180246
CHK BY: TAB, VVD

(SHEET NUM.)
E2
(OF)
2

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	SORU	VENT	TRAP	CW	HW	QUANTITY	REMARKS
WC-1	WATER CLOSET: FLOOR MOUNTED SIPHON JET, AMERICAN STANDARD "CADET" MODEL NO. 9466 020 WITH OLSONITE L-2ION-CC-2" LIFT WHITE OPEN FRONT SEAT, 8.0AN "ROYAL" 1/2 FLUSH VALVE, A.S. 48130-100 BOLT CAPS, COLOR BY OWNER	3"	2"	-	1"	-	1	FLOOR MOUNTED
LAV-1	LAVATORY: WALL MOUNTED AMERICAN STANDARD "LUCERNE" MODEL NO. 0355 0/2 WITH "DELTA" FAUCET MODEL NO. 501 W/HD.F. COLOR WHITE	2"	2"	2"	1/2"	1/2"	1	WALL MOUNTED
SINK-1	SINK: 3 COMPARTMENT, STAINLESS STEEL, W/ LEFT AND RIGHT DRAIN BOARDS, 18" WIDE, 16" LONG, 12" DEEP BOWLS	2"	2"	2"	1/2"	1/2"	1	FLOOR MOUNTED
SINK-2	SINK: WALL OR COUNTER MOUNTED HANDSINK, ADVANCE TABCO ADY1P8EC	1 1/2"	2"	1 1/2"	1/2"	1/2"	3	WALL MOUNTED
SINK-3	SERVICE SINK: MOP SINK AMERICAN STANDARD "AKRON" NO. 169.018 MODEL 3624 W/ AMERICAN STANDARD "HERITAGE" NO. 8340234	2"	2"	2"	1/2"	1/2"	1	FLOOR MOUNTED
MOP-1	MOP SINK: FLOOR MOUNTED (STYLE PER OWNER)	1 1/2"	2"	1 1/2"	1/2"	1/2"	1	FLOOR MOUNTED
FD-1	FLOOR DRAIN: FUNNEL TYPE FLOOR BOWL DRAIN / SAFE WASTE AND DRAIN THRU MIN. 2" AIR GAP. PROVIDE TRAP PRIMER PER MPC 1002.4.	2"	2"	-	-	-	2	FLOOR MOUNTED

WATER HEATER - GAS FIRED

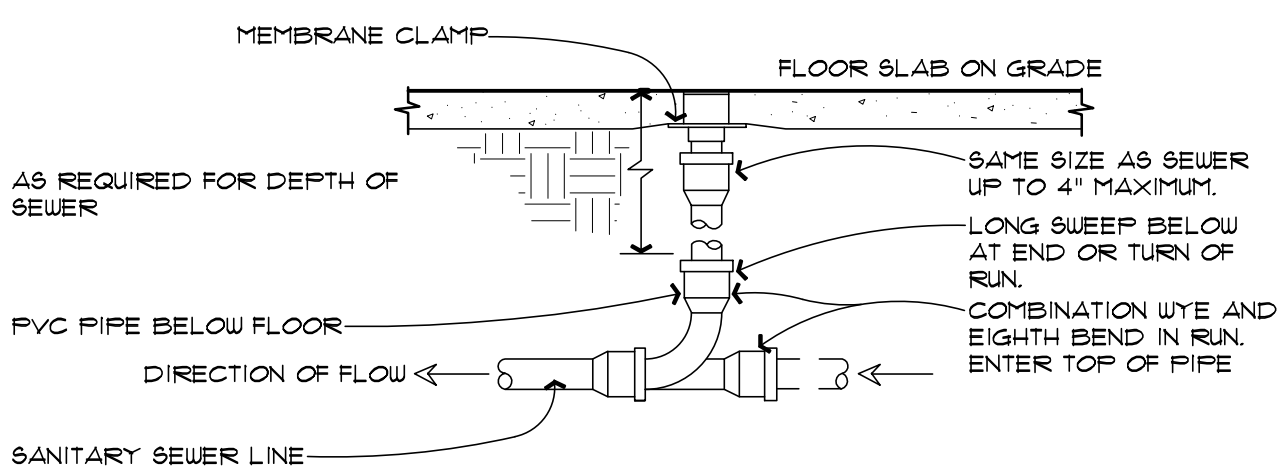
MARK	BTUH INPUT	CAPACITY (GALLONS)	RECOVERY	VENT	MAKE / MODEL	REMARKS
WTR HTR	98,000	50	95 GPH @ 100	5" x 6"	RHEEM G50-98 UNIVERSAL COMMERCIAL SERIES PROVIDE TEMPERATURE & RELIEF VALVE OVERFLOW TO SANITARY LEAD	

PLUMBING NOTES:

- ALL PIPING IS SHOWN DIAGRAMMATICALLY ONLY, EXACT LOCATION WILL BE DETERMINED AT THE JOB SITE.
- CODE - ALL WORK TO COMPLY WITH 2012 MICHIGAN PLUMBING CODE.
- EXISTING FIRE SPRINKLER SYSTEM IS TO BE MODIFIED AS NEEDED TO ACCOMMODATE THE NEW PARTITIONS AND PROVIDE COMPLETE COMPLIANCE WITH ALL REQUIREMENTS OF NFPA AND LOCAL AND STATE REGULATIONS.
- FIRE SPRINKLER SYSTEM TO BE ENGINEERED BY A FIRE PROTECTION ENGINEER RETAINED BY THE FIRE SPRINKLER CONTRACTOR THAT CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMISSION FOR AND OBTAINING ALL NECESSARY APPROVALS AND PERMITS. THIS WILL BE DONE PRIOR TO THE COMMENCEMENT OF ANY FIRE SPRINKLER WORK ON THE PROJECT. ALL WORK SHALL BE DESIGNED AND INSTALLED ACCORDING TO ALL APPLICABLE CODE AND REGULATIONS (NFPA IN PARTICULAR). THE SYSTEM SHALL BE DESIGNED FOR THE SPECIFIC OCCUPANCY, AND TYPES, QUANTITIES AND HEIGHTS OF THE MATERIALS BEING STORED OR USED IN THE BUILDING. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED IN ACCORDANCE WITH LOCAL CODE AND HAVE ITS WATER FLOW ALARM DEVICE CONNECTED TO A CENTRAL STATION OR OTHER SYSTEM APPROVED BY THE LOCAL JURISDICTION TO COMPLY WITH CODE.
- AT REMOVAL OF EXISTING FIXTURES CAP EXISTING PLUMBING COLD WATER, HOT WATER AND SANITARY DRAINS PER CODE.
- PLUMBING PIPING IS NOT TO PENETRATE A FIREWALL OR FIRE SEPARATION WALL UNLESS IN A MANNER ACCEPTABLE TO LOCAL CODE.
- 3" x 4" VENTS ARE TO BE RUN THRU THE ROOF, FLASHED AND COUNTERFLASHED.
- CLEANOUTS TO BE PROVIDED EVERY 50' IN UNDERGROUND LINES AND AT THE BASE OF ALL 3" x 4" VENTS.
- GENERAL: PLUMBING CONTRACTOR SHALL MAKE WORK COMPLETE IN EVERY DETAIL AFTER FULLY ACQUAINTING THEMSELVES WITH THE WORK OF THE PROJECT.
- VALVING: ALL FIXTURES AND ALL BRANCH PIPING RUNS TO FIXTURES SHALL HAVE CONTROL VALVES FOR COMPLETE REGULATION OF THE SYSTEM. EACH BRANCH PIPING SYSTEM SHALL BE INDIVIDUALLY VALVED.
- VENTS: VENTS THROUGH THE ROOF SHALL BE FLASHED AND COUNTER FLASHED WITH 6" LEAD.
- CODES: ALL SANITARY AND STORM DRAINAGE TO MEET THE LOCAL MUNICIPALITY'S PLUMBING CODES AND REGULATIONS, WHERE NOT OTHERWISE NOTED THE MICHIGAN PLUMBING CODES AND STANDARDS SHALL GOVERN THE CHARACTER OF THE WORK.
- VENT PIPES SHALL BE CONNECTED TO THE VENT STACK A MINIMUM OF 6" ABOVE THE FLOOD RIM OF THE HIGHEST FIXTURE SERVED BY THE VENT PIPE.
- ALL PLUMBING FIXTURES SHALL HAVE INDIVIDUAL WATER SHUT-OFFS (HOT & COLD) LOCATED IN AN ACCESSIBLE SPACE. PROVIDE ALL VALVES AT ALL FOOD SERVICE EQUIPMENT.
- ALL PVC SHALL BE SCHEDULE 40, EXCEPT WHERE NOTED DIFFERENTLY.
- ALL WASTE AND SOIL PIPING SHALL BE GALVANIZED OR CAST IRON WHERE SUSPENDED, CAST IRON WHERE UNDERGROUND (PVC ACCEPTABLE WHERE CODE PERMITS). VITRIFIED CLAY PIPE 5'-0" FROM BUILDING.
- ALL WATER PIPING SHALL BE INSTALLED WITH A PITCH TO THE DRAINS. PLUMBING CONTRACTOR SHALL PROVIDE DRAWOFFS AT ALL LOW POINTS. WATER PIPING SHALL BE GALVANIZED IRON OR TYPE "L" ABOVE GRADE AND TYPE "K" BELOW GRADE COPPER WITH SIFLOS JOINTS.

PLUMBING FACILITIES

BUILDING AREA:	1,465 SQ. FT.
USE GROUP (CHAPTER 3):	(A-2) ASSEMBLY
PROPOSED USE:	CARRY-OUT DINER
CONSTRUCTION TYPE (CHAPTER 6):	VB (COMBUSTIBLE)
OCCUPANT LOAD:	71 OCCUPANTS
PLUMBING FACILITIES (REQUIRED): (TABLE 403), SECTION 403)	WATER CLOSETS = 1 PER 75 LAVATORIES = 1 PER 200 SERVICE SINKS = 1 PER 100



LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS.

PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER PCO REQUIREMENTS.

FLOOR CLEAN OUT

N.T.S.

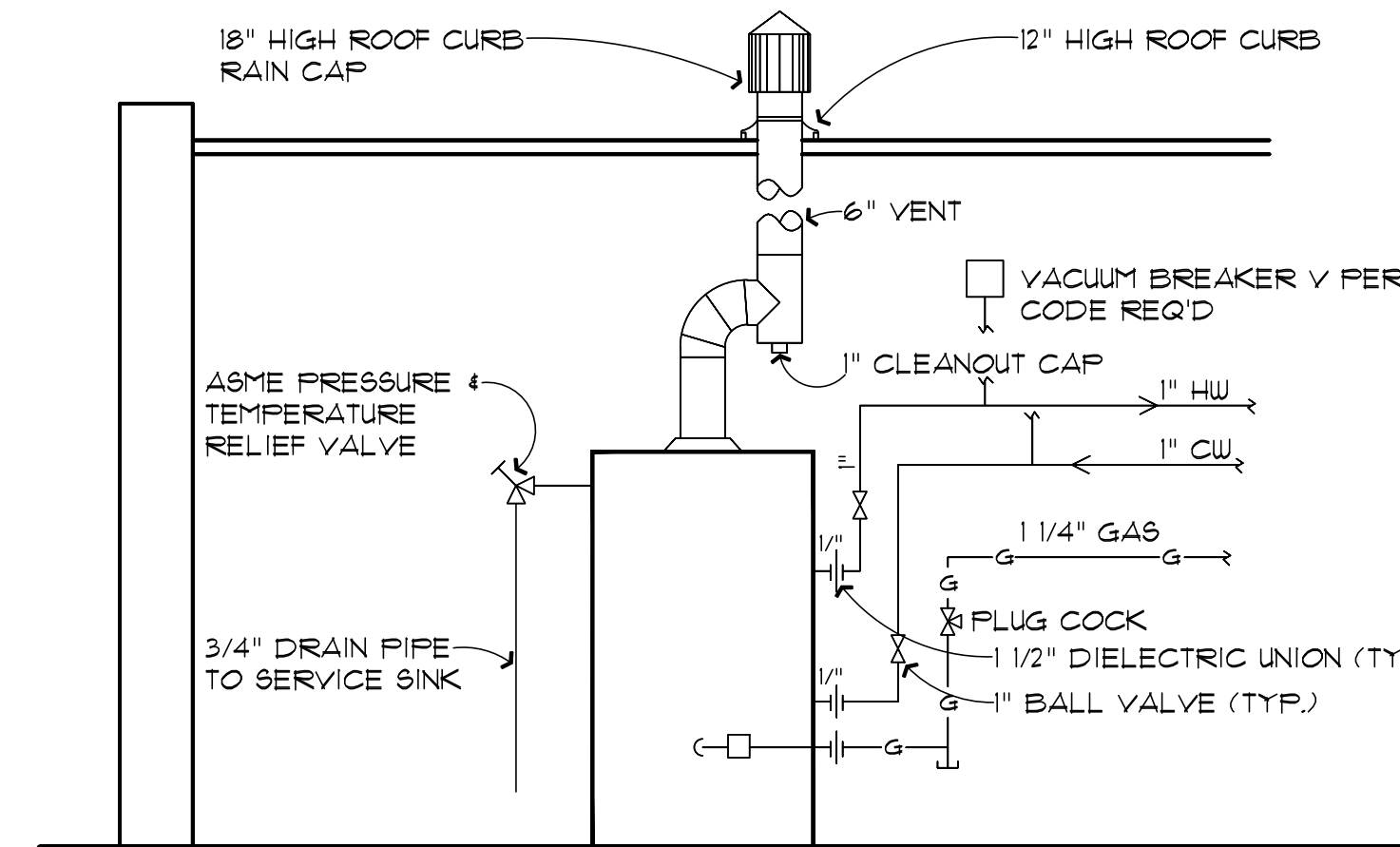
HOT WATER SUPPLY REQUIREMENTS

EQUIPMENT	G.P.H.
3 COMPARTMENT SINK:	45
(2) LAVATORIES:	10
MOP SINK:	5
VEGGIE SINK:	5
(3) HAND SINK:	10
TOTAL GALLONS PER HOUR:	75

B.T.U. REQUIREMENT CALC:

$G.P.H. \times TEMPERATURE \times 8.33 = OPERATING EFFICIENCY$

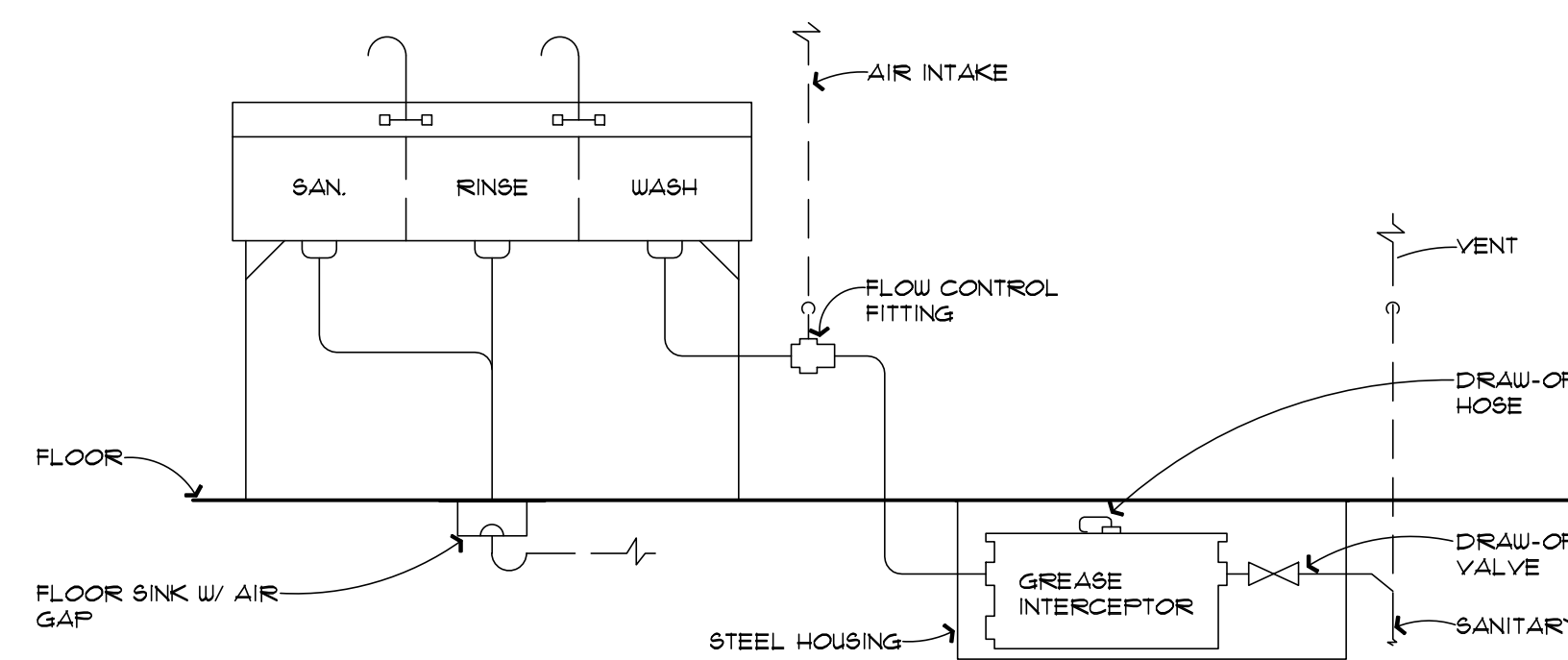
$75 G.P.H. \times 100 \times 8.33 = 83300 B.T.U.'S \text{ REQUIRED}$



- NOTES:
- HOT WATER HEATER OVERFLOW FROM PRESSURE RELIEF VALVES TO BE PIPED TO JUST ABOVE FLOOR AT NEAREST FLOOR DRAINS
 - HOT WATER HEATER PANS TO BE PROVIDED PER LOCAL CODE.
 - WATER HEATER THERMAL EXPANSION PROVISIONS SHALL BE PROVIDED AS REQUIRED BY LOCAL CODE.
 - HOT WATER HEATERS TO BE 40 GALLON GAS. LOCATE IN THE MECHANICAL ROOM.
 - HOT WATER RECIRCULATION PUMP AND RETURN LINE TO BE PROVIDED FOR THE DOMESTIC HOT WATER SYSTEM SO AS TO HAVE NO FIXTURE WHICH USES HOT WATER FURTHER THAN 8 FEET FROM THE RECIRCULATING SYSTEM.

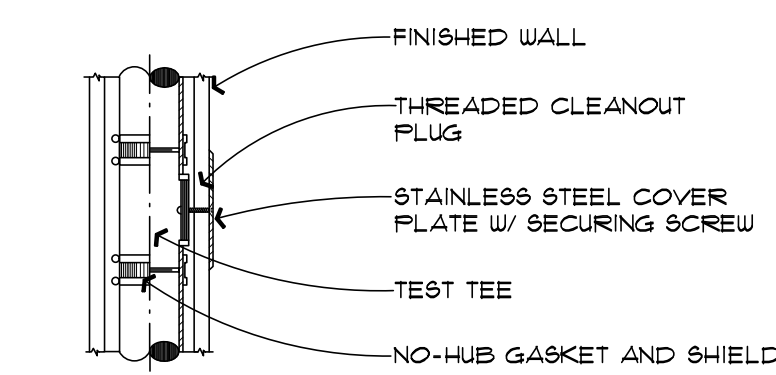
WATER HEATER DETAIL:

N.T.S. STANDARD VENT



GREASE INTERCEPTOR DETAIL

N.T.S.

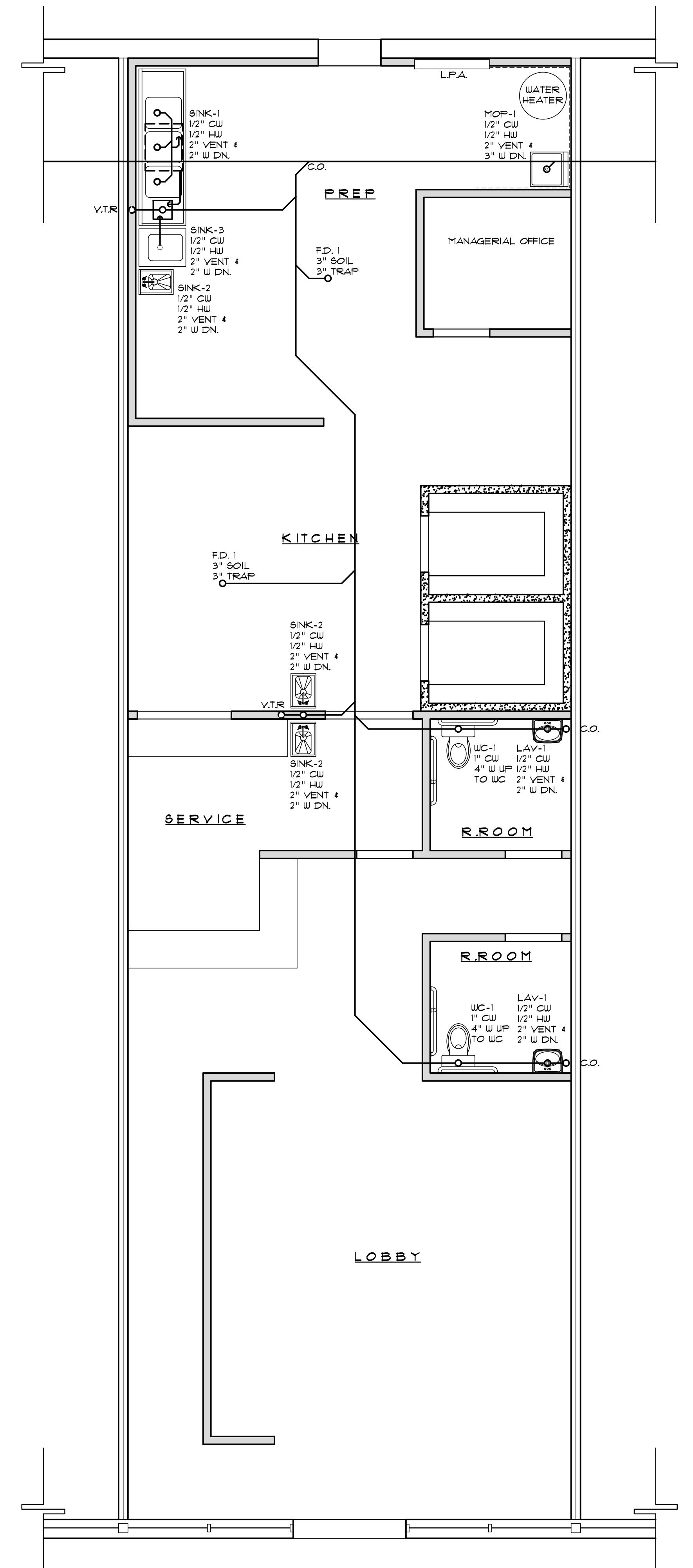


NO-HUB W/ COVER PLATE

PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP W/ VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORRIATED FOR UNFINISHED FLOORS). PROVIDE PLASTIC PLUG IN CAST IRON BODY. CLEAN THE TOP OF EXPOSED PCO AFTER INSTALLATION.

WALL CLEAN OUT

N.T.S.



PLUMBING PLAN

SCALE: 1/4" = 1'-0"

TOTAL SF. 1921 SF.

2:THIRTEEN
DESIGN WORKS
Architectural Design & Planning,
21550 FORT WORTH, MACOMBE, MICHIGAN, 48044, TEL: (810) 278-6344.

PROJECT:
WINGSNOB STERLING HEIGHTS
THE AVENUE RETAIL CENTER
TENANT "C"
3-1100 VAN DYKE AVE
STERLING HEIGHTS, MI 48312

CLIENT:
JACK MASHINI & BRIAN SHUNIA
8424 E. 12 MILE ROAD
WARREN, MI 48093
PHONE: 248.508.0144

DATE: 10/17/18
DUG BY: TAB, VVD
JOB NO: 180246
CHK BY: TAB, VVD

(SHEET NUM.)

P1

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