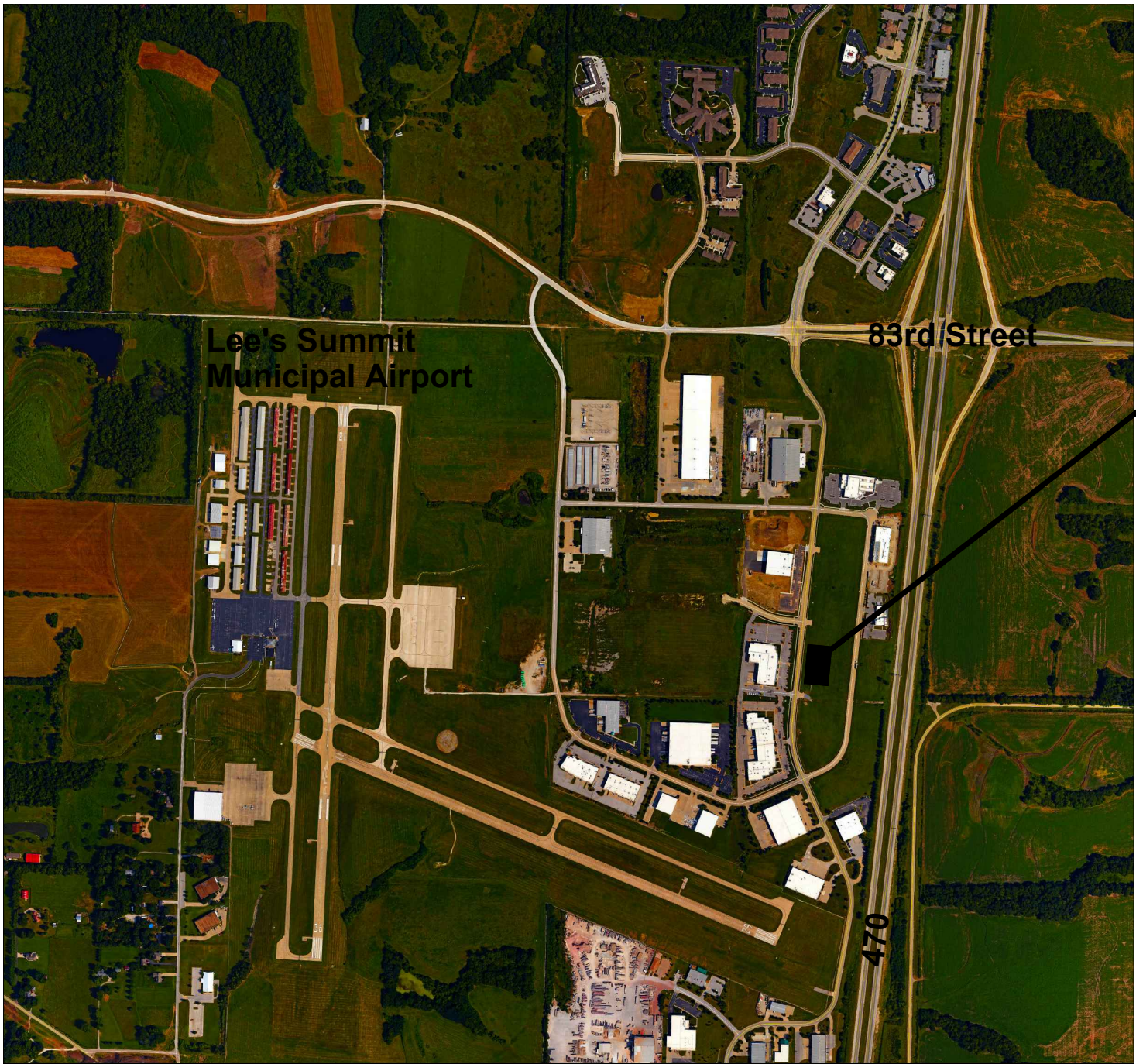
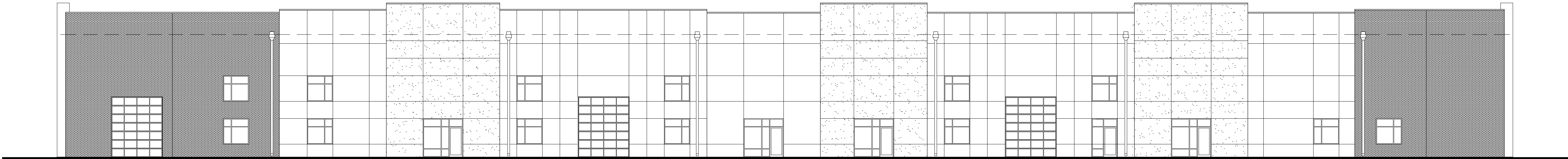


PICKUP USA FITNESS



PROJECT
SITE

LOCATION PLAN



project synopsis:

Governing Municipality: Lee's Summit, Missouri
Address: 2724 NE McBaine Drive
Stories: one
Allowable Height: 70'-0"
Actual Building Height: 36'-0"
Clear Height: 26'-0"
Construction Type: IIB
Allowable Area: 70,000 sq. ft. before frontage increase
Actual Building Area: 68,222 sq. ft.
Tenant Area: 15,185 sq. ft.
Fire Suppression: Yes (NFPA13) Per Section 507.3
Occupant Group: A-3
Occupant Load:
Exercise rooms and locker rooms:
15,185 sq. ft. / 50 gross = 304 occupants
Plumbing Requirements:
304 occupants - 152 Male, 152 Female
Toilets/Urinals - Male 1 per 125 = 2 Fixtures required
Toilets - Female 1 per 65 = 3 Fixtures required
Lavs - 1 per 200 = 1 each
1 drinking fountain - high/low
1 service sink
All plumbing requirements met or exceeded.

applicable codes:

2018 International Building Code
2018 International Plumbing Code
2018 International Mechanical Code
2018 International Fuel Gas Code
2018 International Fire Code
2017 National Electrical Code
ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities



sheet index:

ARCHITECTURAL
CVR Cover
A101 Floor Plan
A102 Roof Plan
A103 Clearances
MECH / ELECT / PLUMB
MEP-1 MEP Site Plan
M101 Mechanical Floor Plan
P101 Plumbing Floor Plan
P102 Plumbing Details
E101 Electrical Floor Plan
E102 Electrical Details



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USA
FITNESS

AT
2724 NE
McBAINE DRIVE
LEE'S SUMMIT
MISSOURI

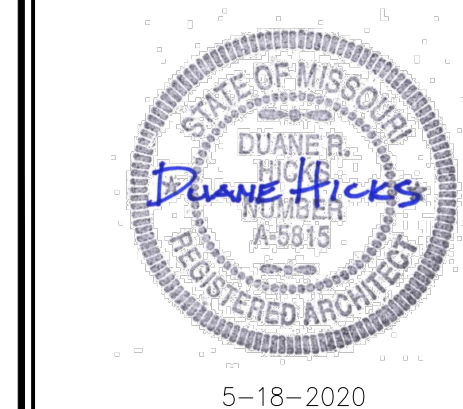
DATE: 4/27/2020

REVISIONS:

- 5/18/20 City Comments

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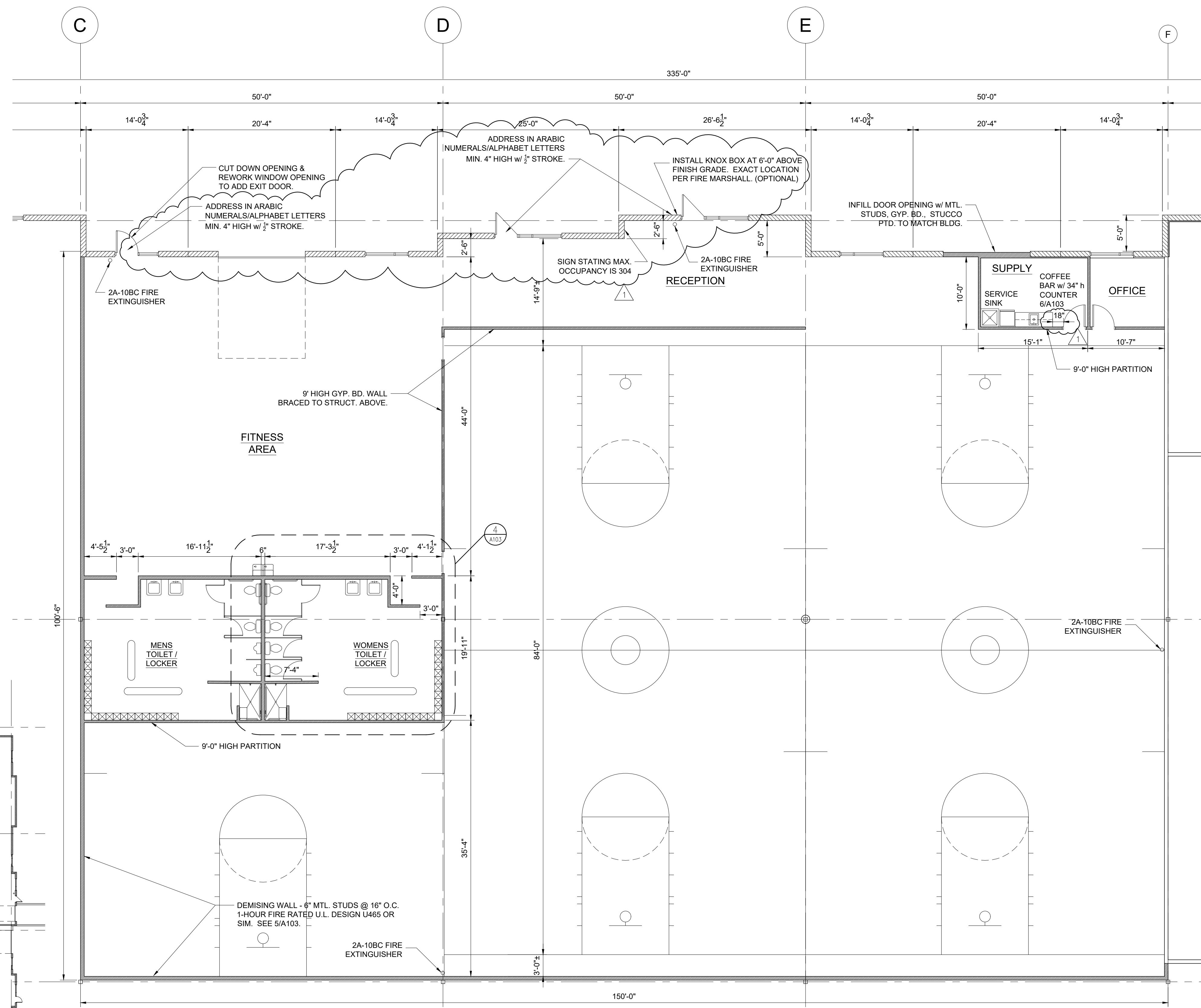


SHEET NO.

A101

LEGEND:

- NEW DOOR
- EXISTING DOOR TO REMAIN
- PROPOSED GYPBOARD PARTITION
- FIRE EXTINGUISHER



1 Floor Plan
scale: 1/8"=1'-0"



plan notes:

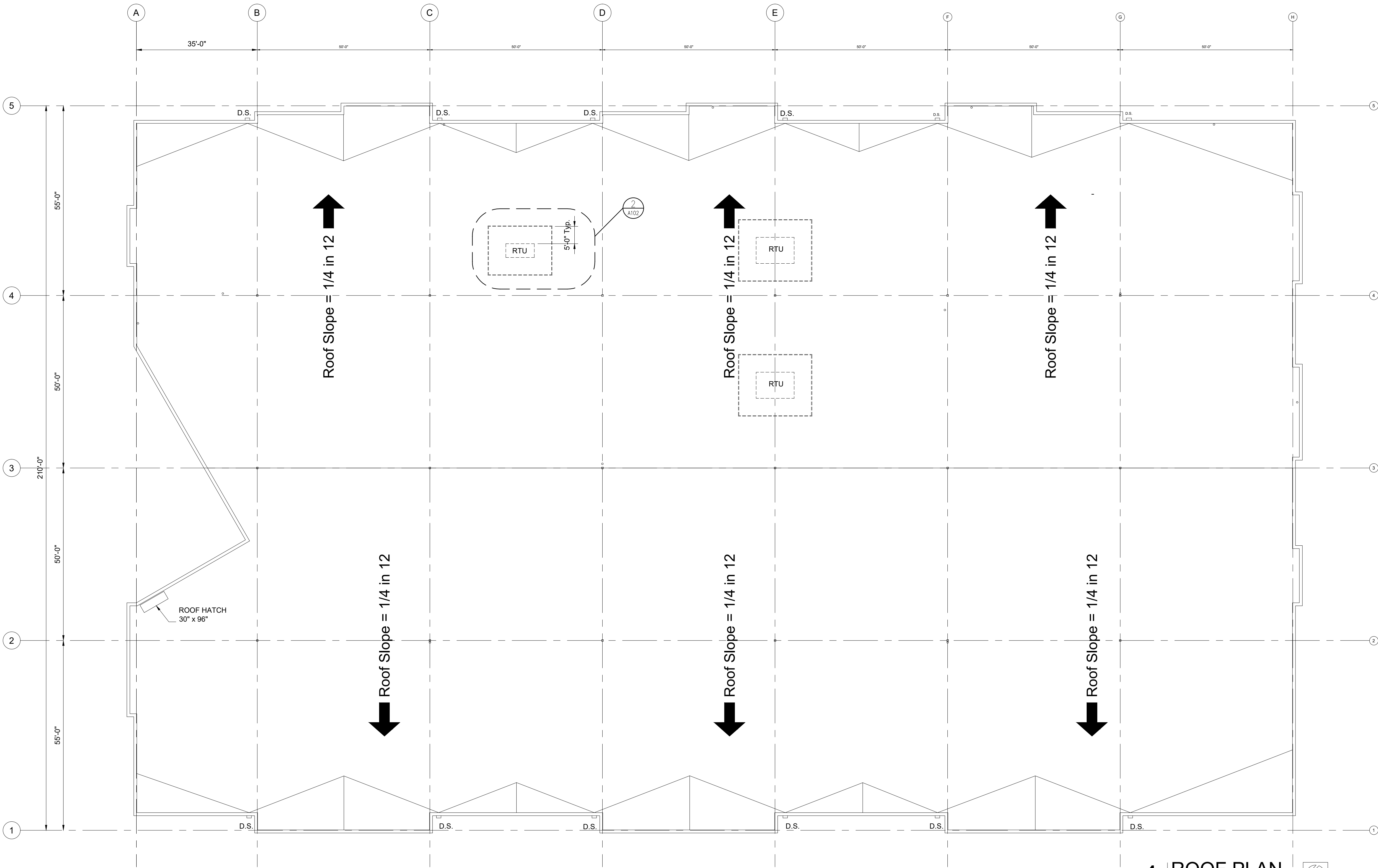
1. Install address number on the building facing Independence Avenue and at each Tenant's entrance as directed by the AHJ. (Min. 4" letters/numerals with min. $\frac{1}{8}$ " stroke.)
2. Install a Knox Box as directed by the Fire Department Chief. (Optional)
3. Toilet room floors to be vinyl tile. Toilet room walls to be painted with vinyl base except 4' high fiberglass reinforced panels (FRP) at plumbing fixtures. Wall behind mop sink to be covered with FRP. Warehouse floor to be sealed concrete.
4. Partitions - 3 $\frac{5}{8}$ " mtl. studs @ 16" O.C. gypsum board both sides.

2 Overall Floor Plan
scale: 1"=30'-0"





2 Screening of Rooftop Mechanical Units
(Final determination of application will be made per ground level visual inspection.)



1 ROOF PLAN
scale: 1/16"=1'-0"



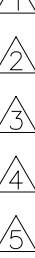
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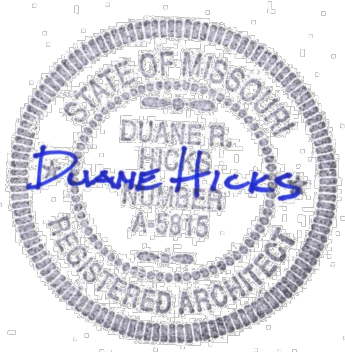
DATE: 4/27/2020

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A102

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DATE: 4/27/2020

- REVISIONS:
- 5/18/20 City Comments

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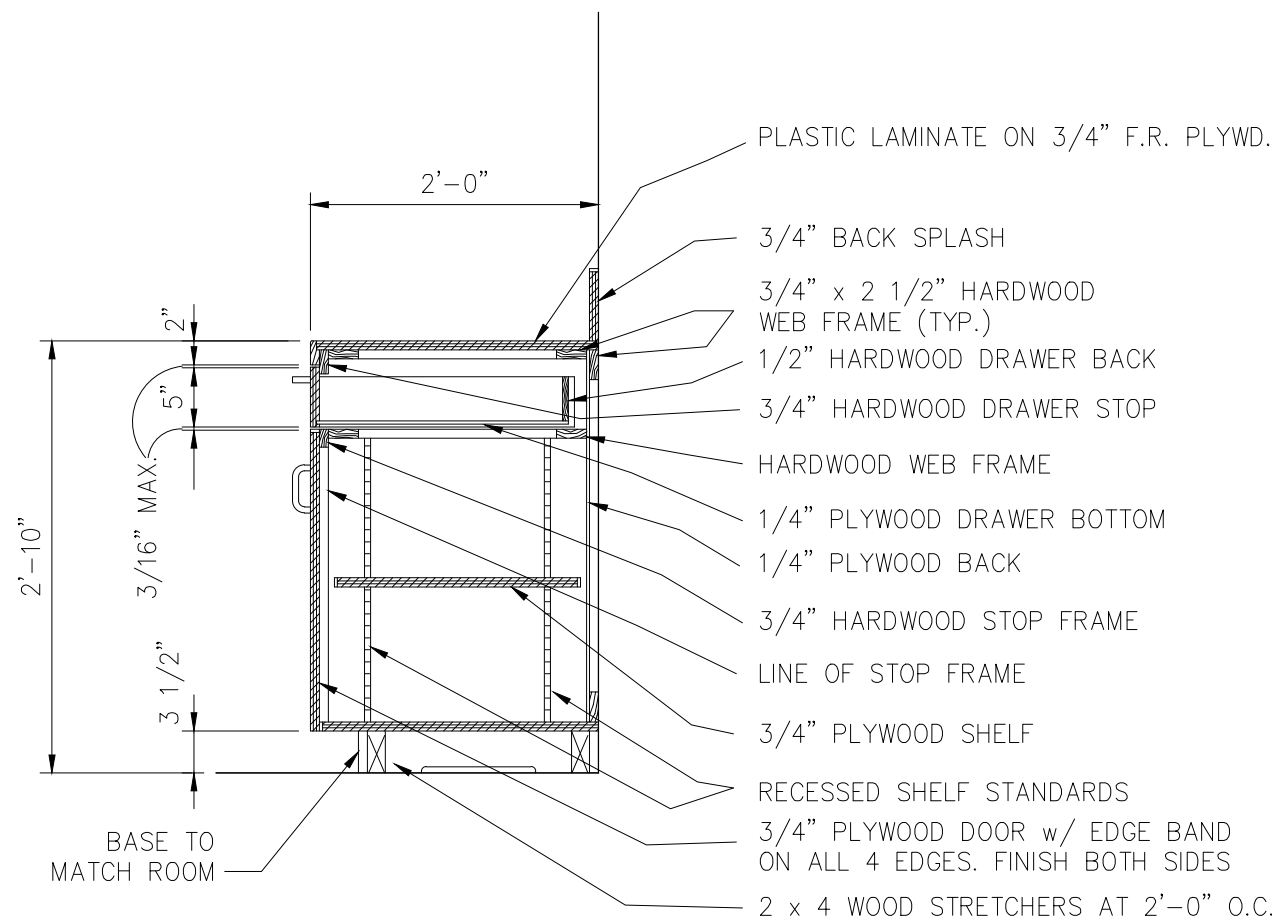
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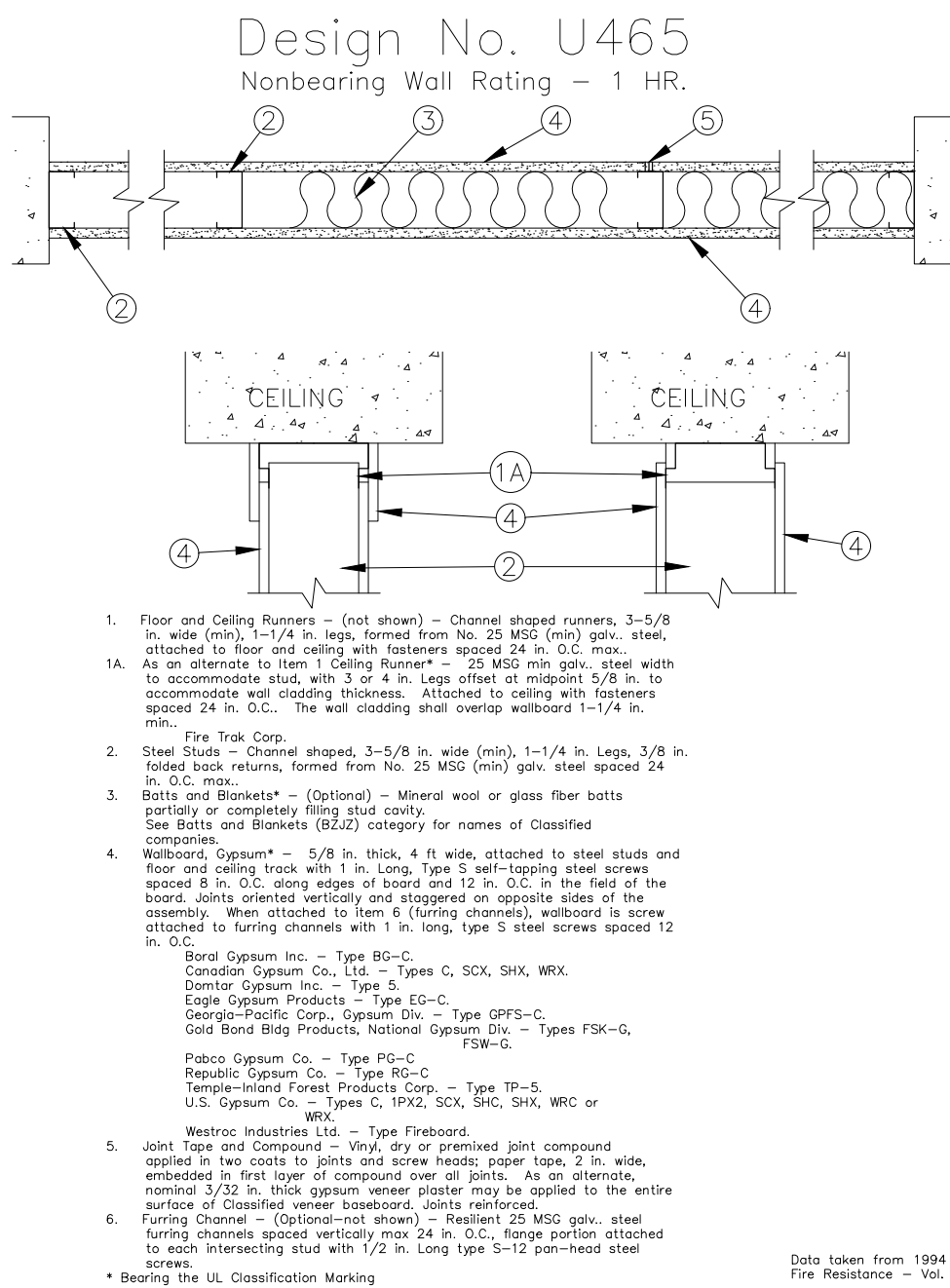


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A103



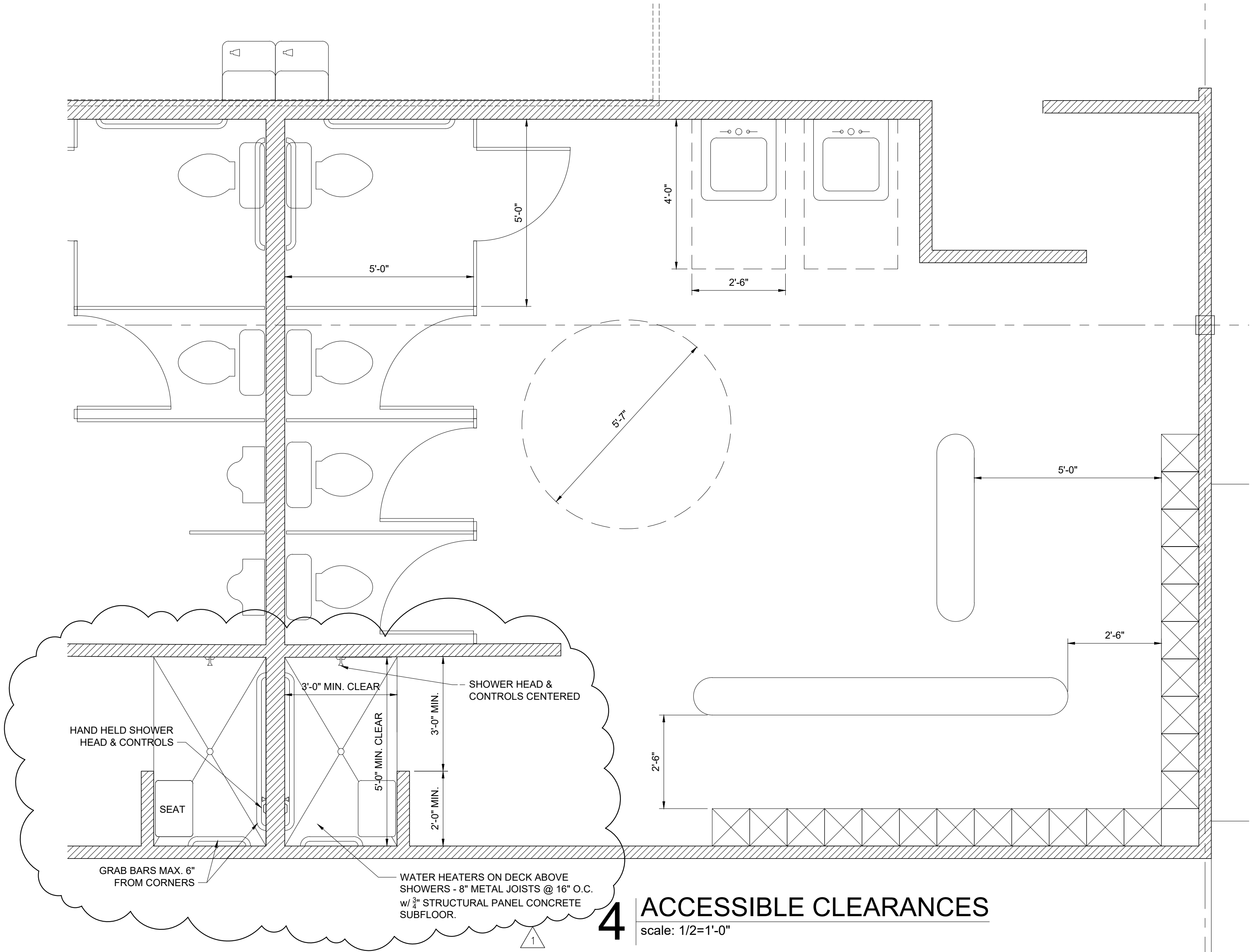
6 COUNTER SECTION

scale: 1/2=1'-0"



5 FIRE-RATED ASSEMBLY

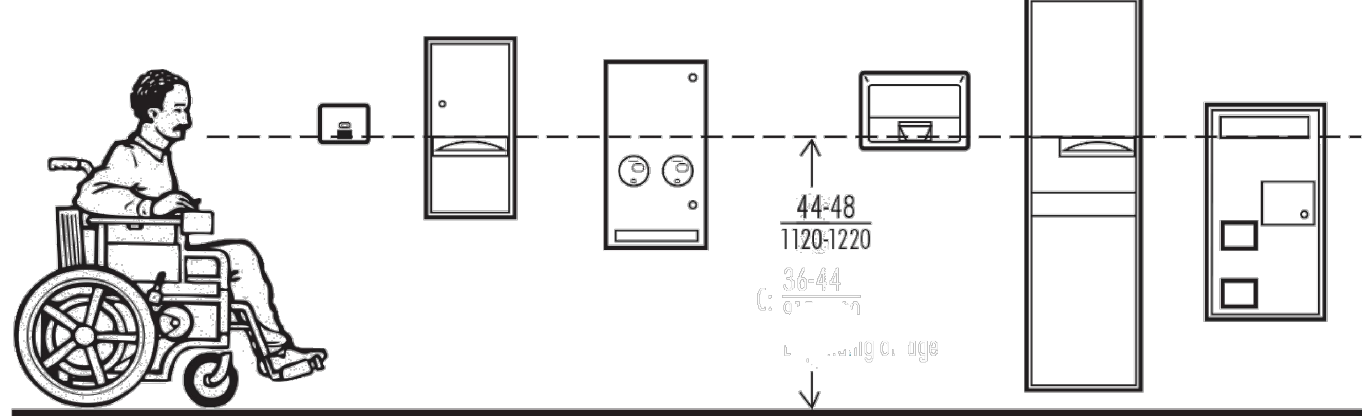
scale: None



4 ACCESSIBLE CLEARANCES

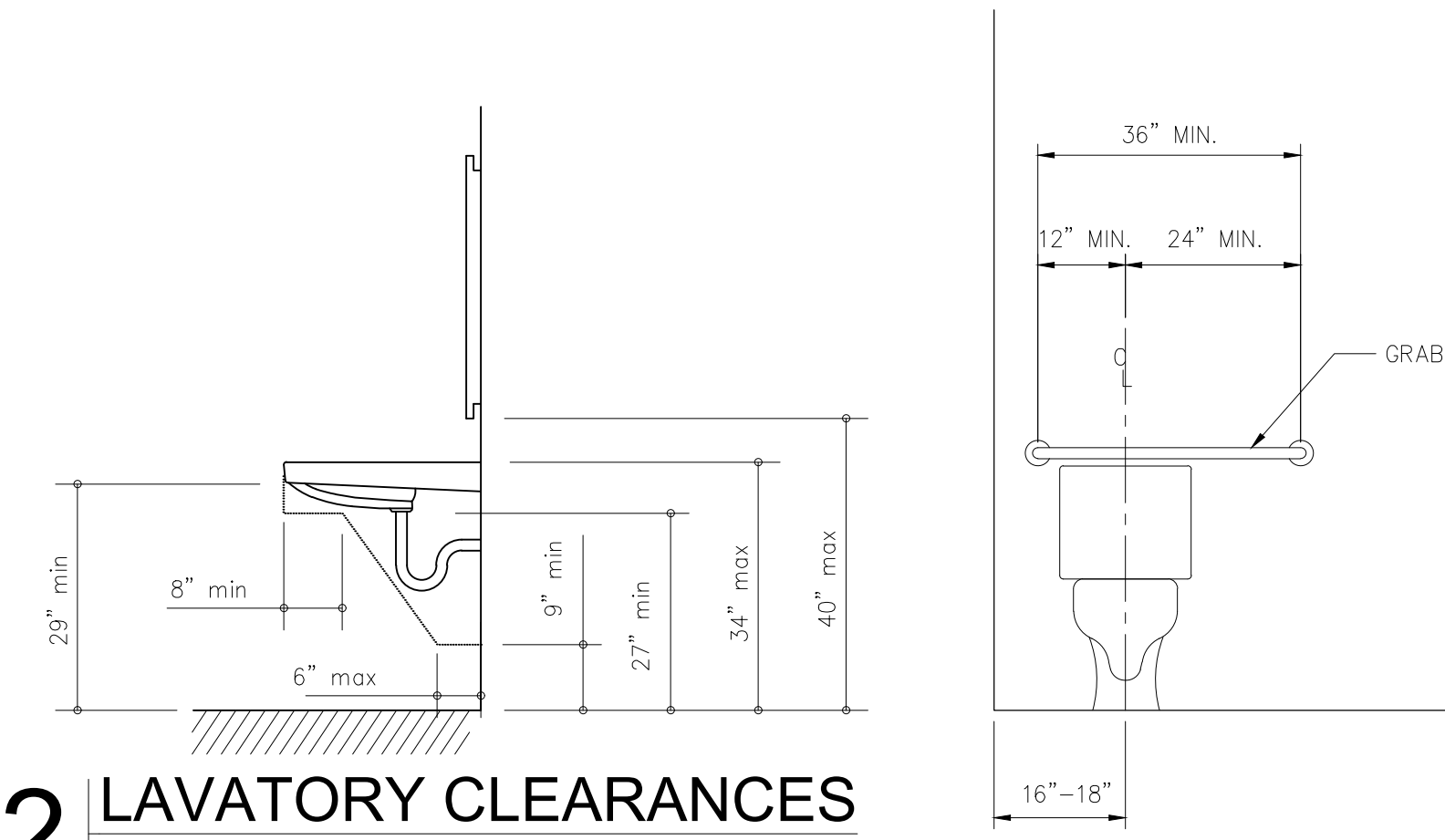
scale: 1/2=1'-0"

Fig. 3 Mounting Heights for Restroom Accessories.



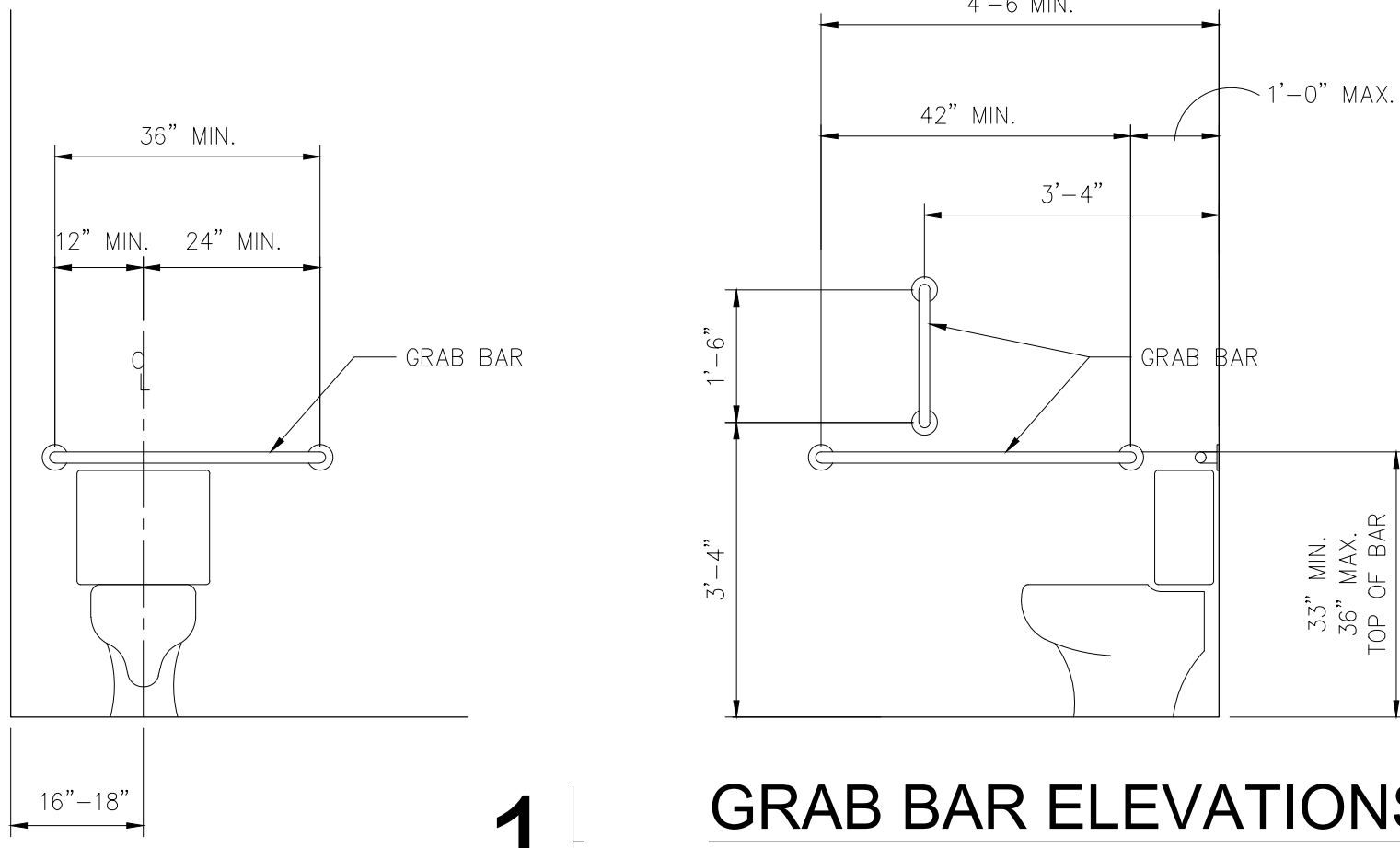
3 ACCESSORY MOUNTING HEIGHTS

scale: None



2 LAVATORY CLEARANCES

scale: 1/2=1'-0"



1 GRAB BAR ELEVATIONS

scale: 1/2=1'-0"

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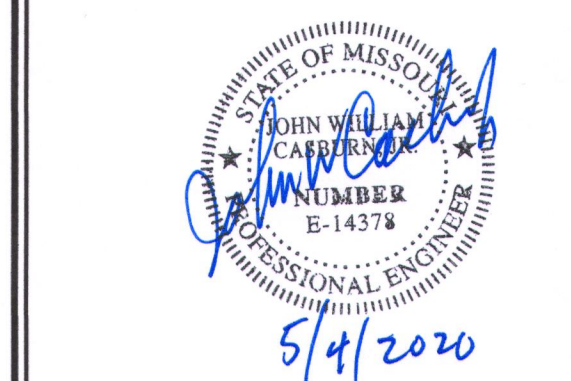
DATE: 4/20/2020

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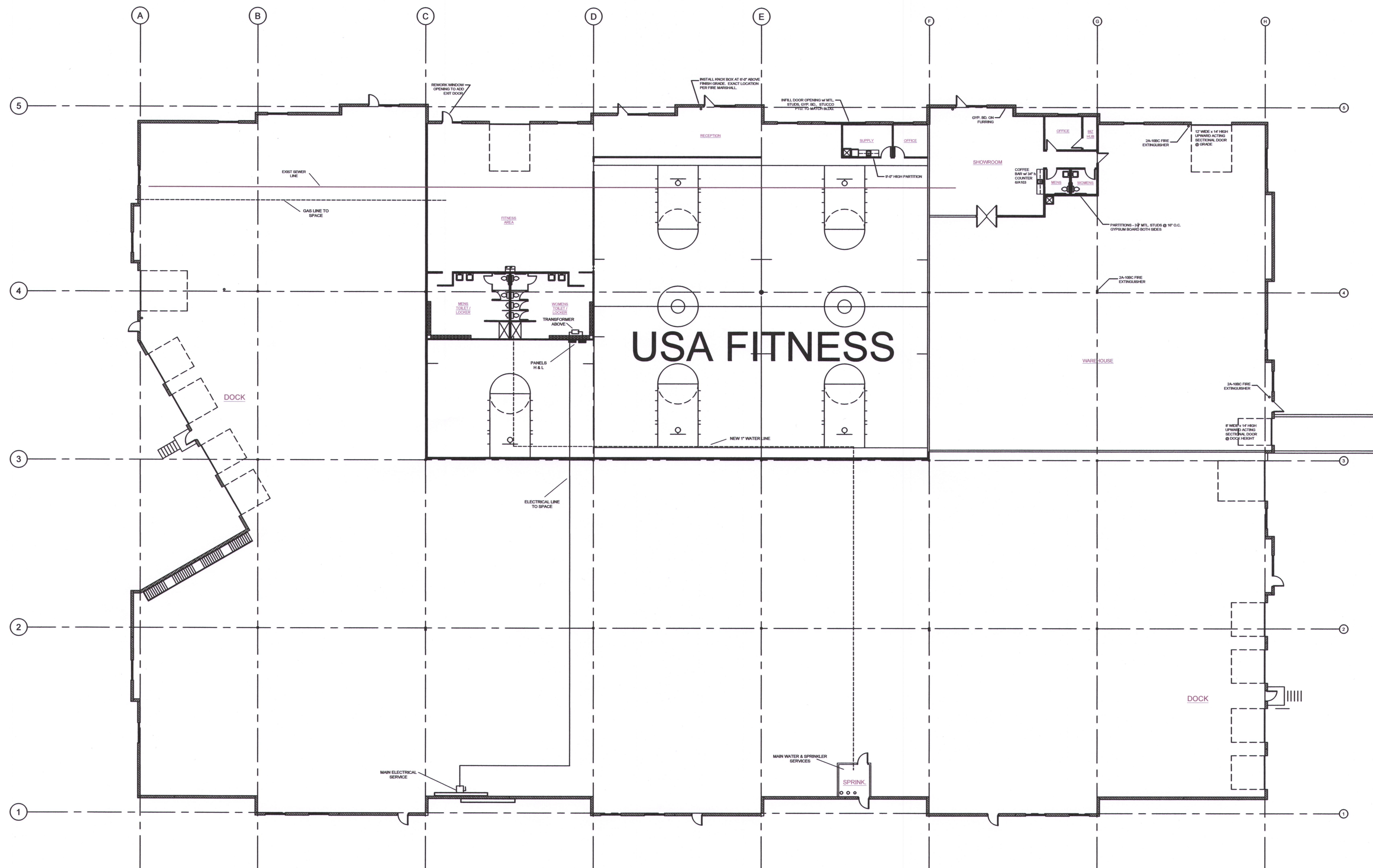
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SHEET NO.

MEP-1

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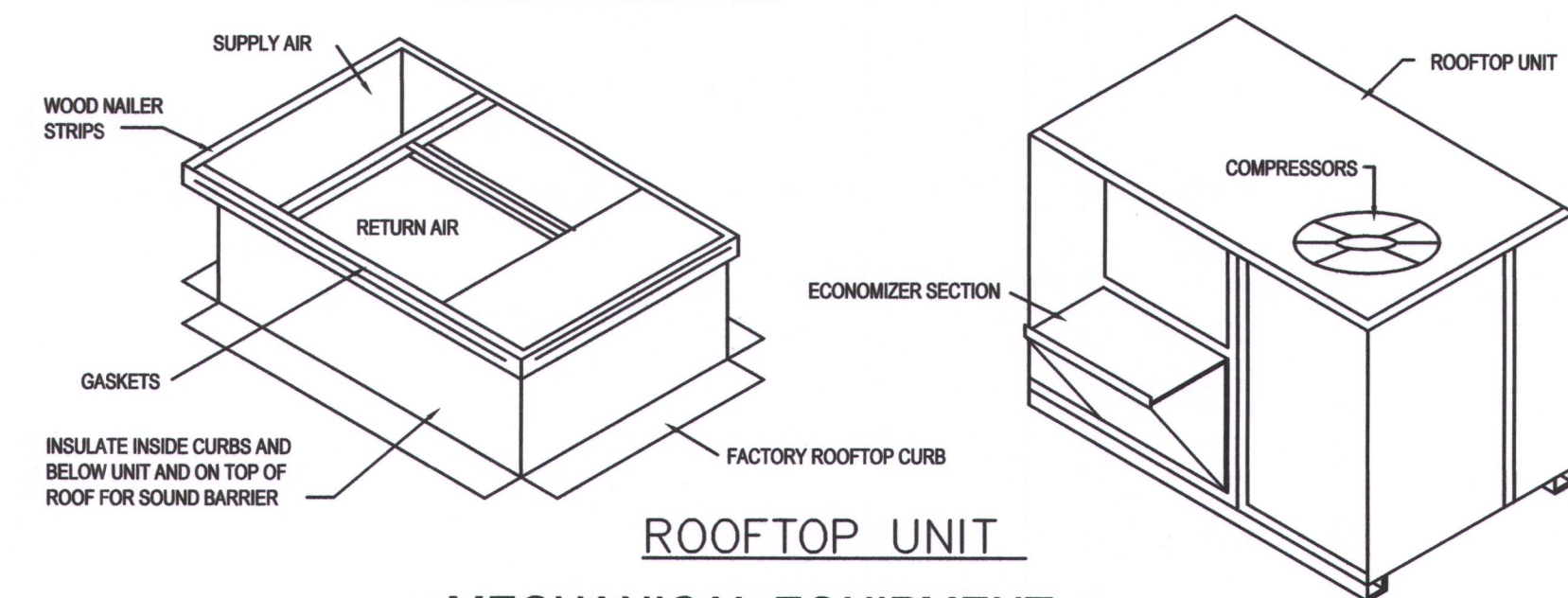
1 BUILDING PLAN
scale: 1/16"=1'-0"



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GENERAL REQUIREMENTS

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL BUILDING, MECHANICAL, PLUMBING CODES NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION CODE, EPA REGULATIONS, AND OCCUPATIONAL SAFETY AND HEALTH ACT, 2018 UNIFORM MECHANICAL, PLMG & FIRE CODES.
- CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS, AND ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
- ACCEPTANCE OF WORK SHALL BE SUBJECT TO OWNER'S REPRESENTATIVE APPROVAL OF WORK IN PLACE AS WELL AS SHOP DRAWINGS AND SAMPLES OF MATERIALS AND EQUIPMENT WHICH SHALL BE CHECKED BY CONTRACTOR BEFORE SUBMITTAL.
- CONTRACTOR SHALL SUBMIT MARKED UP CLEAN PRINTS OF AS-BUILT CONDITIONS SHOWING CONCEALED DEVIATIONS FROM DESIGN.
- CONTRACTOR SHALL KEEP PREMISES OF WORK AREA CLEAN DAILY, BROOM CLEAN AT PROJECT COMPLETION, AND SHALL REMOVE ALL REFUSE FROM SITE REGULARLY.
- CONTRACTOR SHALL WARRANTY ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE AND SHALL REPAIR OR REPLACE AND DEFECTIVE WORK INCLUDING MATERIAL, LABOR AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- ALL PERMITS AND LICENSES THAT ARE REQUIRED BY GOVERNING AUTHORITIES FOR THE PERFORMACE OF MECHANICAL WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT IN SUCH A MANNER AS TO CONTROL THE TRANSMISSION OF NOISE AND VIBRATION FROM ANY INSTALLED EQUIPMENT OR SYSTEM, SO THE SOUND LEVEL SHALL NOT EXCEED NC35, IN ANY OCCUPIED SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY OBJECTIONABLE NOISE IN ANY OCCUPIED AREA DUE TO IMPROPERLY INSTALLED EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL COORDINATE EXACT DUCT DIMENSIONS AND ROUTING WITH ARCHITECTURAL REFLECTED CEILING PLAN AND THE LAYOUT OF RECESSED LIGHT FIXTURES SHOWN ON ELECTRICAL DRAWINGS AND MAKE ONLY APPROVED CHANGES TO MAINTAIN SPECIFIED CEILING HIEGHTS.
- MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DIFFUSERS, REGISTERS AND GRILLS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHT LAYOUT.
- MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ROOF TOP EQUIPMENT AND DUCT PENETRATIONS WITH STRUCTURAL.
- MECHANICAL CONTRACTOR SHALL SIZE AND INSTALL REFRIGERANT PIPING TO EQUIPMENT AS RECOMMENDED BY EQUIPMENT MANUFACTURER, INCLUDE ALL NECESSARY CONTROLS AND INTERLOCK WIRING, INSULATE SUCTION PIPING WITH 3/4"THICK ARMAFLEX (OUTDOOR INSULATION SHALL BE ULTRAVIOLET PROTECTED).
- MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR HANDLING SYSTEMS OF 2000 CFM OR LARGER CAPACITY FOR THE AUTOMATIC SHUT-OFF OF THE SYSTEM UPON SIGNAL FROM THE SMOKE DETECTOR. EQUAL TO FENWALL DN31; BRK DH1851AC OR ROBERT SHAW 2650-150 SERIES.
- RECTANGULAR DUCT TO BE CONSTRUCTED OF PRIME GALVANIZED SHEET METAL LINED WITH 1/2", 3 lb. DENSITY FIBERGLASS INSUALTION. ROUND FLEXIBLE DUCT TO BE THERMAFLEX TYPE MKC OR EQUAL WITH 1" FIBERGLASS INSUALTION EXTERNALLY WRAPPED. PLANS REFLECT COMPENSATION OF 1/2" INTERIOR INSULATION LINER.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL TURNING VANES AND VOLUME EXTRACTOR WHERE SHOWN ON DRAWINGS AND AS REQUIRED FOR SMOOTH AIRFLOW.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL WIRING AND ELECTRICAL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR.
- FIRE DAMPERS ARE REQUIRED AT EACH FIRE RATED WALL, CEILING AND FLOOR DUCT PENETRATION AS SHOWN OR NOTED ON MECHANICAL AND ARCHITECTURAL FLOOR PLANS. (SEE DETAIL). FIELD IDENTIFY DUCT SIZE FOR SPECIFIC DAMPER SIZES, AND PROVIDE ACCESS PANELS AS REQUIRED FOR EACH FIRE DAMPER.



MECHANICAL EQUIPMENT

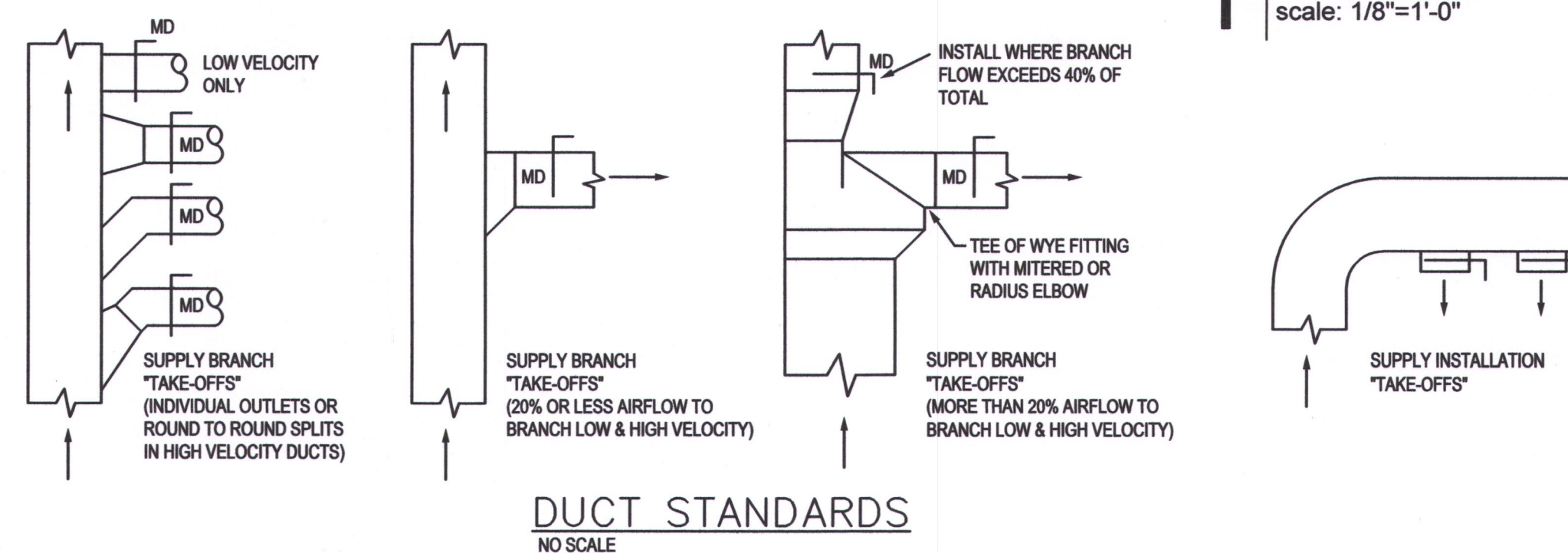
RTU-A: CARRIER MODEL #LGA180HSIG, 15 TON, HIGH HEAT, ELECTRO-MECHANICAL CONTROLS WITH ECONOMIZER, 480V-3PH R-22 REFRIGERANT, DOWNWARD AIRFLOW, THRU THE BASE UTILITIES, MANUAL OUTSIDE AIR DAMPER, POWERED GFCI RECEPTACLE AND UNIT MOUNTED DISCONNECT SWITCH, 46 MCA. PROVIDE STANDARD CURB PROVIDE SMOKE DETECTOR IN RETURN DUCTS FOR AUTO-SHUT-OFF OF RTU UPON ALERT. SIMILAR OR EQUAL TO FENWALL DN31, OR ROBERT SHAW 2650-150 SERIES. PROVIDE ACCESS PANELS FOR RE-SETTING. SET FRESH AIR DAMPER PER VENT. AIR REQ

EXHAUST FAN - BROAN #684, 400 CFM, 120V, PROVIDE DAMPER, FLUE-THRU-ROOF, WATERTIGHT.

RTU

RTU-B: CARRIER MODEL #LGA08BSIG, 7.5 TON, MEDIUM HEAT, ELECTRO-MECHANICAL CONTROLS WITH ECONOMIZER, 480V-3PH R-22 REFRIGERANT, DOWNWARD AIRFLOW, THRU THE BASE UTILITIES, MANUAL OUTSIDE AIR DAMPER, POWERED GFCI RECEPTACLE AND UNIT MOUNTED DISCONNECT SWITCH, 24 MCA. PROVIDE STANDARD CURB PROVIDE SMOKE DETECTOR IN RETURN DUCTS FOR AUTO-SHUT-OFF OF RTU UPON ALERT. SIMILAR OR EQUAL TO FENWALL DN31, OR ROBERT SHAW 2650-150 SERIES. PROVIDE ACCESS PANELS FOR RE-SETTING. SET FRESH AIR DAMPER TO 935 CFM

DIFFUSER & REGISTER SCHEDULE					
INDENT.	MANUF.	MODEL	SIZE	FINISH	
(A)	TITUS	TMR - 12"	22" DIA	STEEL	SUPPLY - 600 CFM
(B)	TITUS	TMR - 8"	15" DIA	STEEL	SUPPLY - 400CFM
(C)	TITUS	TMR - 6"	11" DIA	STEEL	SUPPLY - 200 CFM
(D)	TITUS	TMS-8"	24"x24"	WHITE	SUPPLY
(E)	TITUS	TMR	24"x24"	WHITE	RETURN



1 Floor Plan

scale: 1/8"=1'-0"



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AT

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McBAINE DRIVE
LEE'S SUMMIT
MISSOURI

DATE: 4/20/2020

REVISIONS:

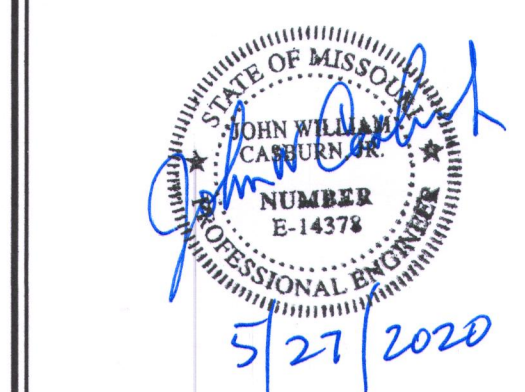
- added vent air 5/17/2020
- REV Code Date 5/27/2020

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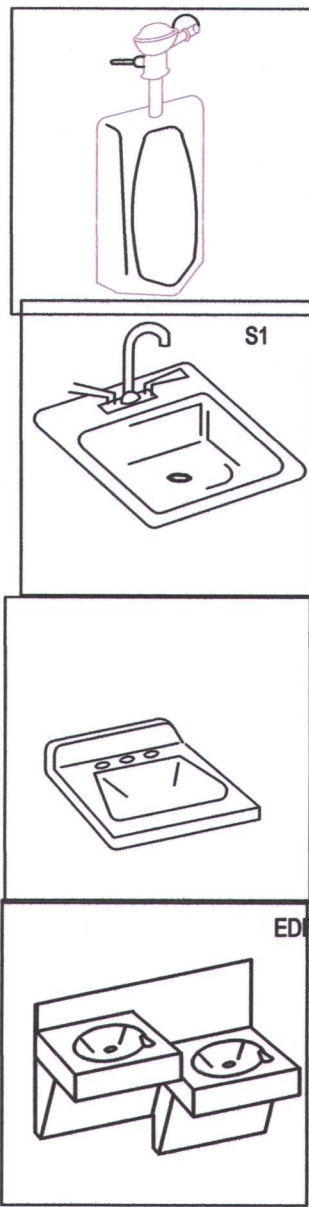
M101

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- CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS, AND ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL PROTECT ALL EXISTING WORK TO REMAIN, AND SHALL REPAIR ANY DAMAGED INCIDENTAL TO PERFORMANCE OF NEW WORK.
- INTERFERENCE WITH OWNERS OPERATIONS OR INTERRUPTION OF SERVICES SHALL BE FULLY COORDINATED WITH OTHERS.
- ACCEPTANCE OF WORK SHALL BE SUBJECT TO OWNER'S REPRESENTATIVE APPROVAL OF WORK IN PLACE AS WELL AS SHOP DRAWINGS AND SAMPLES OF MATERIALS AND EQUIPMENT WHICH SHALL BE CHECKED BY CONTRACTOR BEFORE SUBMITTAL.
- ALL PERMITS AND LICENSES THAT ARE REQUIRED BY GOVERNING AUTHORITIES FOR THE PREFORMANCE OF MECHANICAL WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

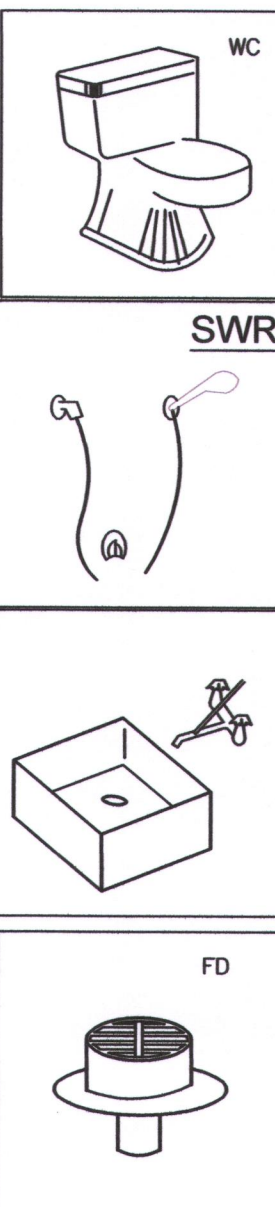


URINAL - AMERICAN STANDARD #6400.014 VITREOUS CHINA WATER SAVER (1.5 GALLONS PER FLUSH) URINAL W/INTEGRAL SPREADER FLOOR MOUNTED WISLOAN ROYAL 186 FLUSH VALVE, STRAINER TOP SPUD. 1/2" CW, 2" WASTE, 1-1/2" VENT.

SINK - DAYTON D-12522 STAINLESS STEEL SELF RIMMING, SINK W/4 HOLES - 3 HOLES FOR LK-232-S-BH-3 H ARC SINGLE LEVER FAUCET WITH 5" WRIST BLADES. INCLUDE FLEXIBLE SUPPLIES W/WHEEL HANDLE STOPS AND 1-1/2" P-TRAP AND CUP STRAINER. 1/2" H & CW, 1-1/2" WASTE, 1-1/2" VENT.

BATHMASTER - BF7404-00 W/INTROP 20 X 18 WALL HUNG, 4" CENTERSET FAUCET, INCLUDE STRAINER, OR EQUAL FAUCET: DELTA 2567 - LPH H22, A22 CHROME, OR EQUAL

DRINKING FOUNTAIN - HALSEY TAYLOR H-I-O BARRIER FREE COOLER, STEEL CABINET, MOSS GRAY COLOR. SHALL DELIVER 6.7 GPH OF 50°F WATER AT 90°F AMBIENT. 120V, 1/2 1/5 HP. COMPRESSOR: 4.5 FLA, 350 WATTS. PROVIDE REFRIGERATION UNIT AND MOUNTING HINGE (ALL LEAD FREE PIPING) 1/2" CW, 1-1/2" WASTE, 1-1/4" VENT. HANDICAPPED MOUNTING HEIGHT 35" A.F.F. TO RIM + 28" CLEARANCE BENEATH.

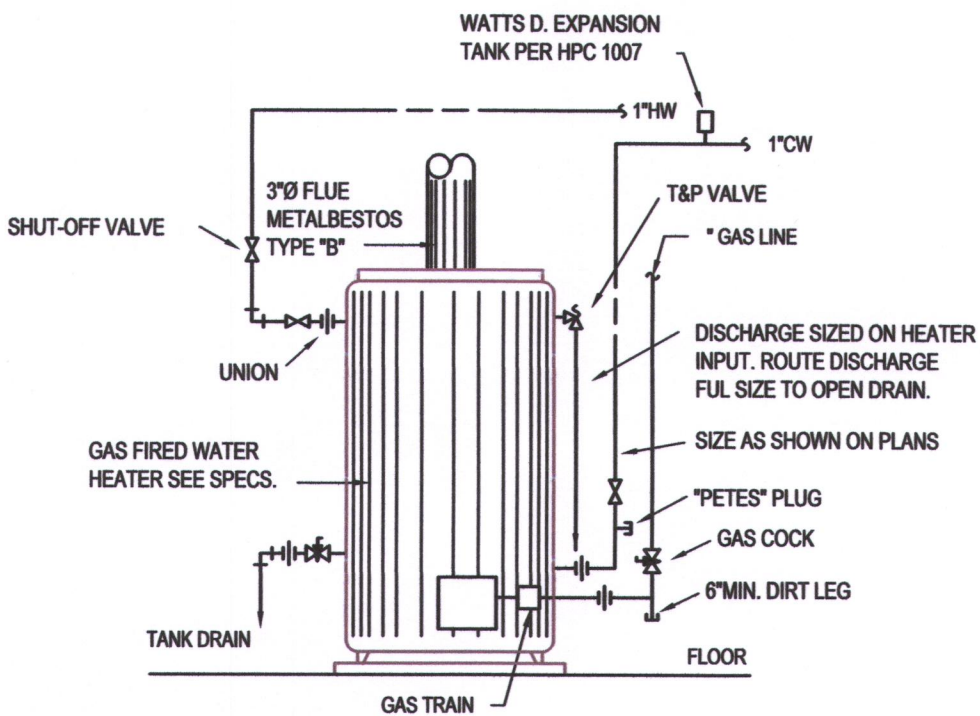


WATER CLOSET - GERBER, AQUA SAVER 21-702 ROUND VITREOUS CHINA, ELONGATED FLOOR OUTLET, SIPHON JET ACTION, TANK TYPE TOILET W/WHITE, SOLID PLASTIC - KOHLER #KA716 OPEN FRONT SEAT LESS COVER. PROVIDE FLEXIBLE SUPPLY PIPE WITH WHEEL HANDLE STOP. 1/2", 4" WASTE. 2" VENT.

SHOWER SHALL BE A AKER MAX #141339 PROVIDE WITH DRAIN, MIXING VALVE, FAUCETS, AND "P" TRAP. SHOWER HANDLE, MOEN # TL181, TEMP LIMITOR. VALVE MEON # 62370. SHOWER FLOOR DRAIN - JONES #3D37P BLOT DOWN FLOOR DRAIN AND SHOWER DRAIN. 3" WASTE. PROVIDE WITH SEAT, GRAB BARS. SHALL BE ADA ACCESSIBLE

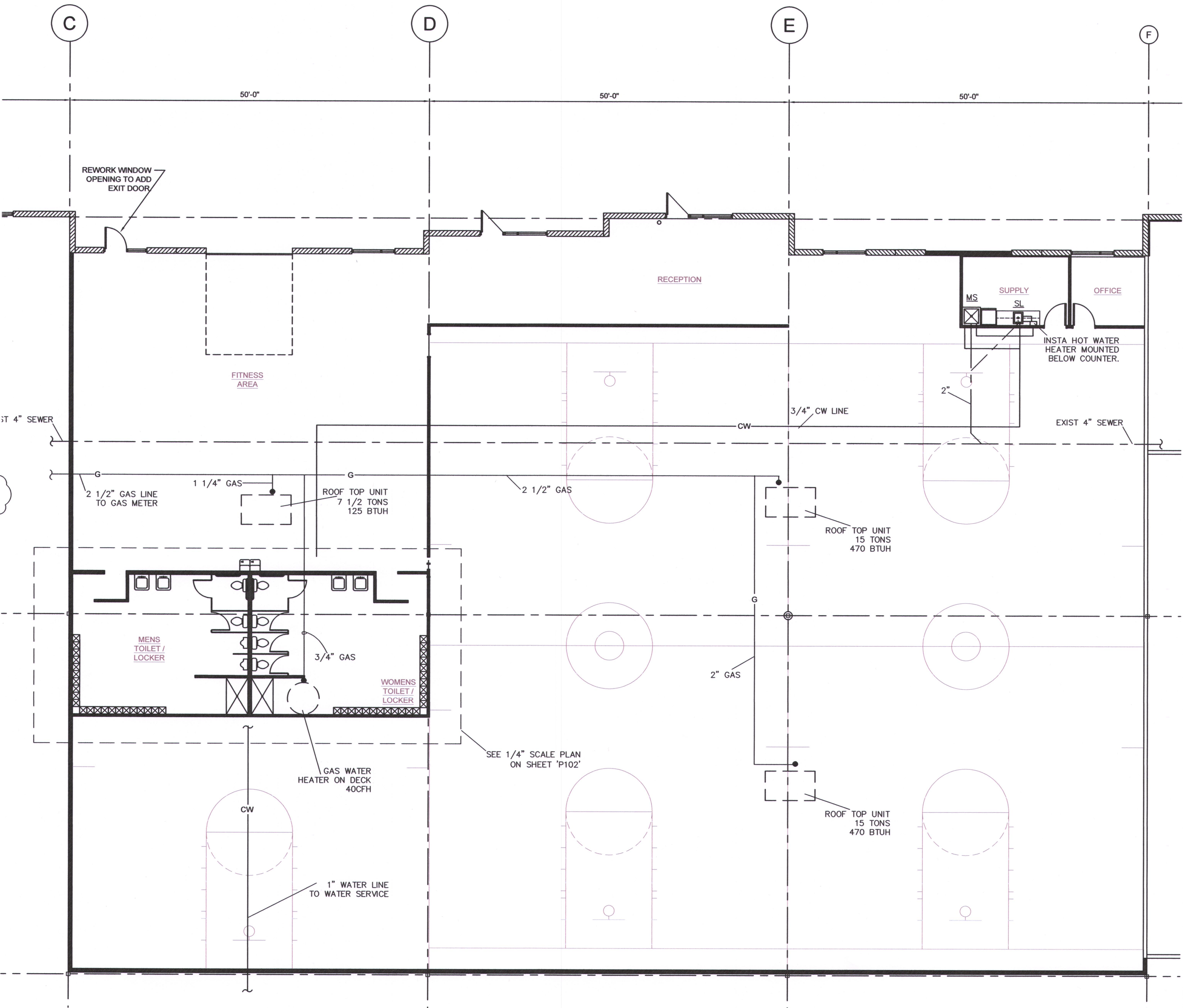
JANITOR SINK - WILLIAMS MODEL MTB-24"24" FLOOR MOUNTED BASIN W/AMERICAN STANDARD 8341.075 FAUCET WITH VACUUM BREAKER. INCLUDE VINYL BUMPER FOR EXPOSED SIDE & PROVIDE P-TRAP FOR DRAIN. 1/2" H & CW, 3" WASTE, 2" VENT.

FLOOR DRAIN - JOSAM 32000 CAST IRON, ROUND 7" NIKOLY MEDIUM DUTY LOOSE SET ANTI-TILTING GRATE. SIZE TO SUIT PIPE SIZE AS SHOWN ON DWG. OR EQUAL.



GAS WATER HEATER DETAIL
NO SCALE APPROX. 1000 LBS OPERATING WEIGHT

WATER HEATER A: STATE MPR6 50 NOVET, 50 GALLON, NATURAL GAS-FIRED HEATER REQUIRING 50 CFH NATURAL GAS FOR 27 GPH RECOVER @ 90 RISE. HEATER TO BE FITTED WITH T&P VALVE WITH AGA RATING OF MIN. 10% ABOVE BTU INPUT OF HEATER. VALVES SET FOR 150 PSI @ 210 WATER. THERMO-BOND PROTECTIVE COATED THERMOSTAT TUBE OF LENGTH REQ'D. FOR INSERTION INTO HOTTEST WATER IN TANK. INSTALL VALVE DIRECTLY TO HEATER WITHOUT ELBOWS AND/OR COUPLINGS. EXTEND FULL-SIZE COPPER DRAIN LINE FROM VALVE TO WITHIN 6" OF FLOOR DRAIN. VENT PIPING SHALL BE 4"



1 Floor Plan
scale: 1/8"=1'-0"

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E-mail: jwcasburn@att.net

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DESIGN/CONSULTANT SERVICES
LEE'S SUMMIT, MISSOURI
05/28/2020

TENANT INFILL FOR

PICKUP USA FITNESS

AT
2724 NE McBAINE DRIVE
LEE'S SUMMIT MISSOURI

DATE: 4/20/2020

REVISIONS:
REV SHOWER
5/17/2020

SBC
ARCHITECTURAL SERVICES
Robert J. Shirk Jr. - Principal / Project Mgr.

3009 ELMIRA CT.
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STATE OF MISSOURI
JOHN W. CASBURN
NUMBER E-14378
PROFESSIONAL ENGINEER
5/28/2020

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P101
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FOR

PICKUP
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FITNESS

AT

2724 NE
McBAINE DRIVE
LEE'S SUMMIT
MISSOURI

DATE: 4/20/2020

REVISIONS:
WTR HAMMER ARRESTORS
5/17/2020
△
△
△
△

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STATE OF MISSOURI
JOHN W. SHIRK JR.
NUMBER
E-14374
PROFESSIONAL ENGINEER
5/20/2020

SHEET NO.

P102

SCHEDULE OF PIPE AND FITTING MATERIAL

SERVICE	MATERIAL	JOINTS	FITTINGS	NOTES
ROOF DRAINS	SERVICE WEIGHT CAST IRON (CI)			
CONDENSATE DRAINS	COPPER "M" HARD	SOLDERED OD BRAZED	WROUGHT COPPER OR CAST BRONZE	①
VENTS AND WASTE LINES (ABOVE GROUND)	SERVICE WEIGHT CAST IRON (CI) (PVC WHEN APPROVED BY CITY)	LEAD OR TYSEAL	CAST IRON-PVC APPROVED	①
SOIL LINES (BELOW GROUND) - UNDER SLAB	CAST IRON (CI) (PVC WHEN APPROVED BY CITY)	LEAD OR TYSEAL	CAST IRON-PVC APPROVED	②
REFRIGERANT AND DOMESTIC WATER PIPE - (BELOW GROUND) SMALLER THAN 3"	COPPER "K" SOFT DRAWN	SOLDERED OR BRAZED	WROUGHT COPPER OR CAST BRONZE	⑥ ⑦
DOMESTIC WATER 3" AND LARGER	DUCTILE IRON	MECHANICAL		
DOMESTIC WATER PIPE (ABOVE GROUND)	COPPER "L" HARD ASTM C-200	SOLDERED OR BRAZED	WROUGHT COPPER OR CAST BRONZE	⑦
SEWER LINE PIPING (BELOW GROUND) NOT UNDER SLAB	PVC	ASTM C-425	ASTM C-200	① ②
GAS PIPE (BELOW GROUND)	SCHEDULE 40, BLACK STEEL-X-TRUE COATED AND WRAPPED	CAST IRON	CAST IRON MALLEABLE IRON	③ ④
GAS PIPE (ABOVE GROUND)	SCHEDULE 40 BLACK STEEL	SCREWED	CAST IRON MALLEABLE IRON	③ ⑤

NOTES

- PVC OR ABS SCHEDULE 40, SOLVENT WELDED JOINTS MAY BE USED ONLY WITH WRITTEN AUTHORIZATION OF APPROVAL BY LOCAL INSPECTING AUTHORITY SUBMITTED BELOW TO ARCHITECT AND ENGINEER PRIOR TO BIDDING. CONDITIONS OF NOTE ② BELOW. SCR-35 SANITARY PIPE WHEN APPROVED.
- NO PVC OR ABS TO BE USED IN TYPE II CONSTRUCTION, THROUGH OR IN RETURN AIR PLENUMS, IN CITIES WHERE SUCH MATERIAL IS NOT ACCEPTABLE; OR BELOW BUILDING SLAB OR DRIVEWAY SURFACES.
- SCREWED GAS CONNECTION FOR 2" AND SMALLER; WELDED CONNECTION FOR 2" AND LARGER, AND IN RETURN AIR PLENUMS.
- THREADS AND WELDS PAINTED PRIOR TO WRAPPING. ALL EXTERIOR PIPING (ESPECIALLY ON ROOF) TO BE PAINTED (COLOR BY ARCHITECT) TO MATCH ADJACENT SURFACE. PROVIDE CATHODIC UNDERGROUND PROTECTION ON GAS PIPING AS RECOMMENDED BY LOCAL KPL GAS SERVICE (FOR GOVERNING AUTHORITY).
- CONNECT ALL GAS TO EQUIPMENT THROUGH GAS COCK, UNION AND DIRT LEG.
- NO WATER FITTINGS OR CONNECTIONS BELOW FLOOR SLAB. MAKE GRADUAL BEND OR RADIUS.
- PROVIDE WTR HAMMER ARRESTERS PRIOR TO CONNECTION OF HOT/COLD WATER LINES TO PLUMBING FIXTURES. COLD WATER LINES TO PLUMBING FIXTURES. ALL POTABLE WATER SYSTEMS SOLDERING TO BE 95/5, TIN/ANTIMONIAL OR UL, BOCA, UPC APPROVAL FOR SUBSTITUTION.

PIPING INSULATION SCHEDULE

PIPE SYSTEM	INSULATION	THICKNESS	TEMP.
REFRIGERANT SUCTION		1/2"	-20°F TO 70°F
DOMESTIC HOT & COLD HORIZONTAL MAINS ONLY		1/2"	-20°F TO 70°F
HANDICAP "P" TRAP & HOT WATER UNDER LAVATORY		1/2"	-20°F TO 70°F

NOTE: ALL HORIZONTAL HOT & COLD WATER MAINS ARE TO BE INSULATED. VERTICAL MAINS AS NOTED OR SHOWN ON PLANS.

INSULATE UNCONDITIONED AND UNCONDITIONAL SPACES.

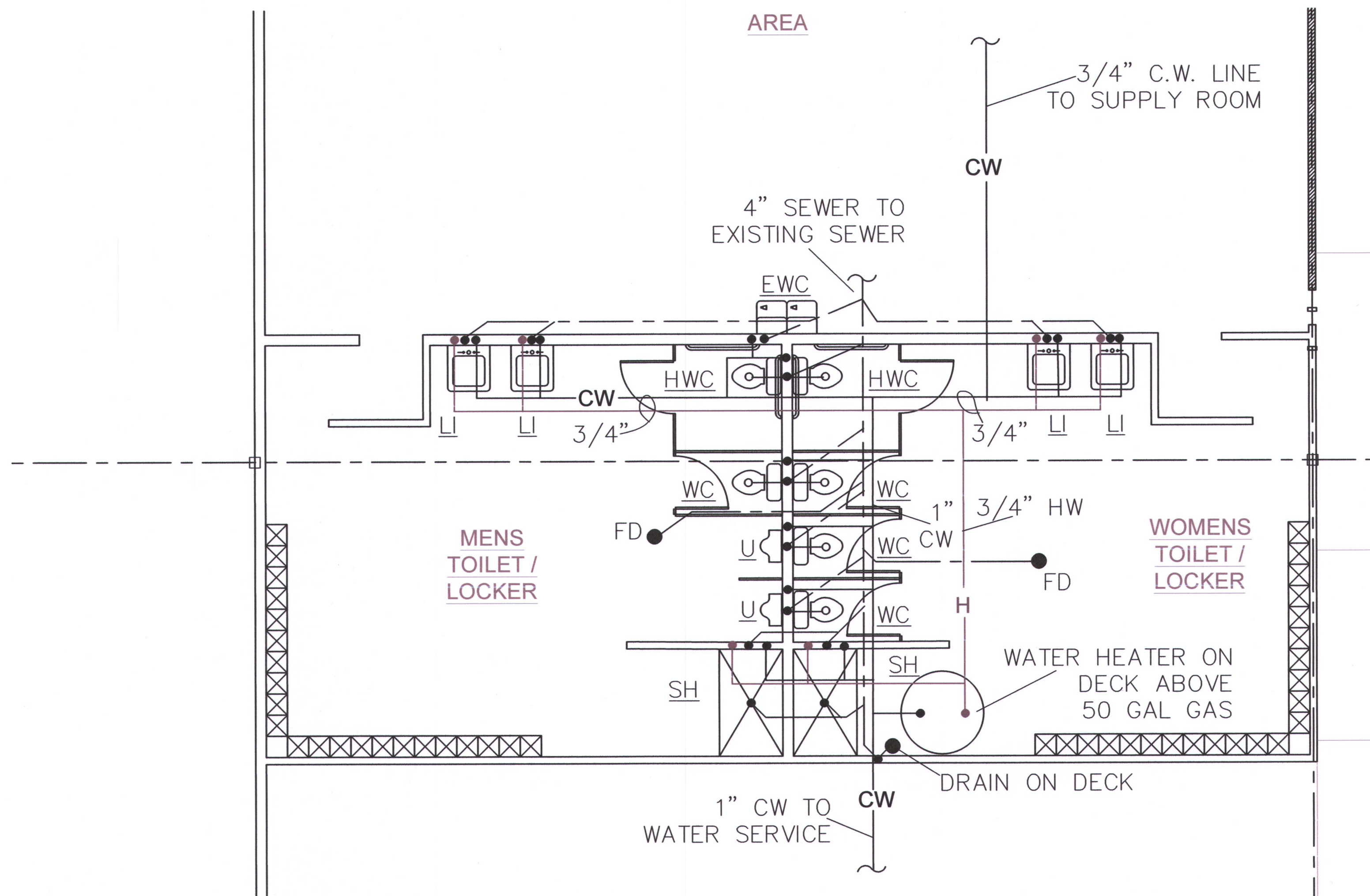
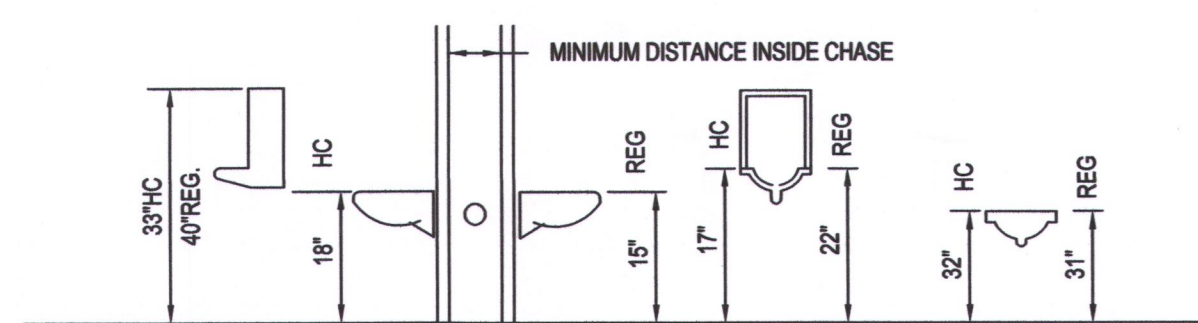
* FLEXIBLE UNICELLULAR (UP THRU 2") UNICELLULAR ELASTOMERIC CLOSED CELL INSULATION, 0.27 BTU-IN/H-SF THERMAL CONDUCTANCE AT 75°F, 3% MAXIMUM WATER ABSORPTION BY WEIGHT. ARMSTRONG AP ARMAFLEX OR RUBATEX.

PLUMBING CONNECTION/MOUNT.

FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
LAVATORY OR SINK	1/2"	1/2"	1-1/2"	1-1/2"
WATER CLOSET, TANK TYPE		1/2"	4"	3"
URINALS		3/4"	2"	1-1/2"
DRINKING FOUNTAINS		1/2"	1-1/4"	1-1/4"

FIXTURE	MOUNTING HEIGHT
LAVATORY OR SINK	31" FLOOR TO RIM
HANDICAPPED LAVATORIES	34" FLOOR TO RIM
WATER CLOSET	15" FLOOR RIM
HANDICAPPED WATER CLOSET	18" FLOOR TO RIM
STANDARD URINALS	22" FLOOR TO RIM
HANDICAPPED URINALS	17" FLOOR TO RIM
HANDICAPPED DRINKING FOUNTAIN	35" FLOOR TO RIM, 27" KNEE SPACE

PLUMBING CONTRACTOR TO REFERENCE PLUMBING FLOOR PLANS AND DETAIL SHEET AND SPECIFICATIONS FOR SPECIFIC FIXTURE IDENTIFICATION USED.



1 Partial Floor Plan
scale: 1/4"=1'-0"

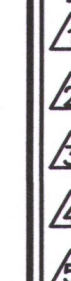


PICKUP
USA
FITNESS

2724 NE
McBAINE DRIVE
LEE'S SUMMIT
MISSOURI

DATE: 4/20/2020

REVISIONS:

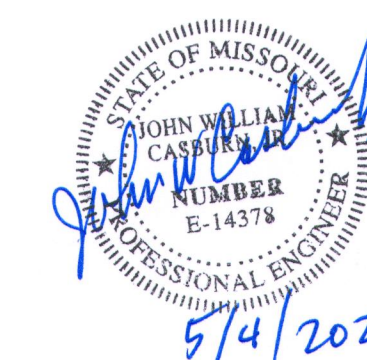
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SHEET NO.

E101

PANEL <u>H</u> MOUNTING <u>FLUSH</u> BUS <u>200</u> MAIN <u>MLO</u> TYPE <u>BOLT-IN</u>							
LOCATION <u>COURT</u>				VOLT <u>277/480V</u> <u>3</u> <u>Ø</u> <u>4</u> WIRE			
CKT. NO.	DESCRIPTION	BKR.	CKT. V.A.	CKT. V.A.	BKR.	DESCRIPTION	CKT. NO.
1	LIGHTING	20	1600	1900	20	LIGHTING	2
3	LIGHTING	20	1600	1600	20	LIGHTING	4
5	LIGHTING	20	2000	800	20	LIGHTING	6
7	ROOF TOP UNIT	60/3	38K	38K	60/3	ROOF TOP UNIT	8
9							10
11							12
13	ROOF TOP UNIT	30/3	20K	11,000	40/3	PANEL 'L'	14
15							16
17							18
19	SPARE	20			20	SPARE	20
21	SPARE	20			20	SPARE	22
23	SPARE	20			20	SPARE	24
			116,500	TOTAL VOLT AMPS 140 AMPS			

PANEL <u>L</u> MOUNTING <u>FLUSH</u> BUS <u>100A</u> MAIN <u>100A-BP</u> TYPE <u>BOLT-IN</u>							
LOCATION <u>COURT</u>				VOLT <u>120/208V</u> <u>3</u> <u>Ø</u> <u>4</u> WIRE			
CKT. NO.	DESCRIPTION	BKR.	CKT. V.A.	CKT. V.A.	BKR.	DESCRIPTION	CKT. NO.
1	BRK REC	20	800	1200	20	RECEPT	2
3	BRK REC	20	800	1200	20	RECEPT	4
5	REFRIDGE	20	1000	1000	20	EDF	6
7	VENDING MACH	20	1200	1000	20	EXH FANS	8
9	WASHER	20	1200	800	20	TREADMILL	10
11	RECEPT	20	1200	1000	20	RECEPTACLES	12
13	TREADMILL	20	800	1000	20	MONITORS	14
15	TREADMILL	20	800	5000	30/2	DRYER	16
17	TREADMILL	20	800				18
19	SPARE	20				SPACE	20
21	SPARE	20				SPACE	22
23	SPACE					SPACE	24
25	SPACE					SPACE	26
27	SPACE					SPACE	28
29	SPACE					SPACE	30
			15800	TOTAL VOLT AMPS 44 AMPS			

LIGHT FIXTURE SCHEDULE

A HIGH BAY LED FIXTURE, RAB #RAIL 185W, PENDANT MOUNTING , 277 VOLT PROVIDE WITH WIRE GUARD

B ORACLE 24FPL1LED 5000L MV 35K FLAT PANEL LED , 277 VOLT 2'X4'

COMBO EXIT/EMERGENCT LIGHT WITH HIGH CAPACITY BATTERY TO OPERATE EXTERIOR EMERGENCY FIXTURES

C EXTERIOR EMERGENCY LIGHT TO OPERATE OFF OF EMERGENCY LIGHT

EMERGENCY LIGHT

EXIT LIGHT

SYMBOLS & LEGEND

\$	SINGLE POLE SWITCH, MOUNTED AT 46" O.C. A.F.F. UNLESS OTHERWISE NOTED.
\$ ²	TWO POLE SWITCH, MOUNTED AT 46" O.C. A.F.F. UNLESS OTHERWISE NOTED
\$ ³	THREE-WAY SWITCH, MOUNTED AT 46" O.C. A.F.F. UNLESS OTHERWISE NOTED
\$ ⁴	FOUR-WAY SWITCH, MOUNTED AT 46" O.C. A.F.F. UNLESS OTHERWISE NOTED
⚡	EMERGENCY LIGHTING , MOUNTED AT 7'-6" A.F.F. UNLESS OTHERWISE NOTED
⚡	GFCI RECEPTACLE, MOUNTED AT 18" O.C. A.F.F. UNLESS OTHER WISE NOTED
⚡	DUPLEX RECEPTACLE, MOUNTED AT 18" O.C. A.F.F. UNLESS OTHER WISE NOTED
⚡	QUADRAPLEX RECEPTACLES, MOUNTED AT 18" O.C. A.F.F. UNLESS OTHERWISE NOTED.
◀	VOICE OUTLET, MOUNTED AT 18" O.C. A.F.F. WITH 3/4" CONDUIT TO ABOVE CEILING
Ⓜ	JUNCTION BOX
M	MOTION SENSOR WALL SWITCH
Ⓜ	FLOOR MOUNTED RECEPTACLE
Ⓜ	COMBINATION DISCONNECT AND STARTER
\$	WALL MOUNTED OCCUPANCY SWITCH
Ⓜ	EXHAUST FAN
Ⓜ	PANELBOARD
WP	WEATHERPROOF
ALL SYMBOLS NOT NECESSARILY REFERENCED ON PLAN	

GENERAL ELECTRICAL NOTES

- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.
- TELEPHONE/DATA CABLES TO BE 4-PAIR CAT. 5. CABLE TO BE FURNISHED AND INSTALLED BY OTHERS. ALL CABLING TO BE PLENUM RATED.
- ELECTRICAL CONTRACTOR TO INCLUDE GROUND WIRE IN ALL RACEWAYS. SIZE RACEWAYS AS NECESSARY TO COMPLY WITH N.E.C.
- REFER TO REFLECTED CEILING PLAN AND DETAILS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND ANY OTHER EQUIPMENT INSTALLED IN THE CEILING SYSTEM. VERIFY EXACT MOUNTING HEIGHTS AND FINISHES WITH CONSTRUCTION COMPANY PRIOR TO ROUGH-IN.
- DUAL LIGHT SWITCH TO BE PROVIDED IN RESTROOMS, ONE FOR FAN VENT, AND ONE FOR LIGHTING.
- EMPTY MUD RING W/ CONDUIT AND PULL STRING NEXT TO LIGHT SWITCH FOR SPEAKER CONTROLS
- PLYWOOD TELEPHONE BACKERBOARD (4'X4') TO HAVE ROUTED 2" EMPTY CONDUIT BACK TO THE EXISTING TELEPHONE SERVICE ENTRANCE AND 110V OUTLET, FIELD COORDINATE.
- THE WORD "PROVIDE" HEREIN SHALL MEAN FURNISH AND INSTALL.

D. ELECTRICAL SPECIFICATIONS

- THE ENTIRE ELECTRICAL SYSTEM SHALL COMPLY WITH THE FOLLWING:
 - 2017 NATIONAL ELECTRICAL CODE AND ANY OTHER APPLICABLE LOCAL CODES.
 - ALL FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER ONLY.
 - THE REQUIREMENTS FOR ALL ROOF AND WALL OPENINGS DESRIDED IN SECTIONS HEREIN.
- MATERIALS, PRODUCTS AND EQUIPMENT INCLUDING COMPONENTS THEREOF, SHALL BE NEW AND SUITABLE FOR THE PURPOSE AND SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND OF THE LOCAL AUTHORITIES HAVING JURISDICTION. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING COMPONENTS THEREOF, SHALL BE SIZED IN CONFORMITY WITH THE REQUIREMENTS OF OTHER RECOGNIZED STANDARDS, SUCH AS, ASTM, IEEE, IPCEA, NFPA AND NEMA WHERE THE REQUIREMENTS OF SUCH STANDARDS ARE MORE STRINGENT THAN THOSE CITED ABOVE.
- ELECTRICAL SERVICE PROVIDED IS 800 AMP, 277/480V, THREE PHASE.
- ALL CONDUCTORS SHALL BE SOFT DRAWN ANNEALED COPPER. MINIMUM SIZE SHALL BE #12 FOR POWER WIRING AND #14 FOR CONTROL WIRING. WIRE SHALL BE 600 VOLT INSULATED, NEC TYPE THHN/THWN. ALL WIRE SHALL BE RUN IN RIGID CONDUIT OR EMT. NO PLASTIC CONDUIT WILL BE PERMITTED, EXCEPT WHERE PERMITTED BY THE NATIONAL ELECTRIC CODES LATEST EDITION. SERVICE ENTRANCE FEEDERS FROM POWER CO TRANSFORMER TO MDP MAY BE ALUM IN PVC CONDUIT.
- LIGHTING AND APPLIANCE PANELBOARDS WITHIN THE SPACE, THEY SHALL BE OF THE THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE, ALL BREAKERS SHALL BE BOLT-ON TYPE. CIRCUITING SHALL BE ARRANGED TO PRESENT, AS NEARLY AS POSSIBLE, AND EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE CIRCUIT BREAKER TYPE. ALL CIRCUIT BREAKERS SHALL HAVE INTERRUPTING CAPACITY AT LEAST 10 % GREATER THAN THE AVAILABLE FAULT CURRENT AT THE BREAKER LOCATION.
- ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT LEAST 3 INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. HANGERS SHALL BE FASTENED TO STEEL CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIROMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE. PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.
- GROUNDING SHALL CONSIST OF COPPER CONDUCTORS IN CONDUIT WITH BOLTED, OR BRAZED CONNECTION TO COLD WATER LINE FOR THE NEUTRAL. GROUNDING AND BONDING SHALL COMPLY WITH NEC ARTICLE 250. ALL METALLIC RACEWAYS SHALL BE GROUNDED.
- PROVIDE WIRING DEVICES EQUAL TO THE FOLLOWING: TOGGLE SWITCHES
LEVITON CAT #1221, RECEPTACLES- LEVITON CAT # 5262, GFCI RECEPTACLES, LEVITON #6699, PROVIDE AN EMPTY CONDUIT SYSTEM FOR THE TELEPHONE SYSTEMS.
- EQUIPMENT TO BE APPROVED BY THE LOCAL TELEPHONE COMPANY. COORDINATE ALL CONDUIT REQUIREMENTS AND TERMINATION WITH THE LOCAL SOUTHWESTERN BELL TELEPHONE COMPANY OR OTHER TELEPHONE SYSTEM PROVIDER.
- DUPLEX RECEPTACLES AND TELE-COMMUNICATION OUTLETS SHALL BE MOUNTED AT 15" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED. TOGGLE SWITCHES SHALL MOUNT AT 48" ABOVE FINISH FLOOR. WALL MOUNTED TELEPHONE OUTLETS SHALL BE MOUNTED AT 48" ABOVE FINISH FLOOR.

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SHEET NO.

E102

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