

INTERIOR DOORS-STEEL FRAME AND SOLID WOOD DOORS BY ANDERSON LUMBER IN ALCOA, TN

INTERIOR DOOR AND FRAME SCHEDULE ONLY

MARK	STYLE	SIZE			DOOR MAT.	Hardware Set	GLAZING	Frame Mat.	Fire Rating	NOTES
		WD	HGT	THK						
100	Hinged - Single - Full Lite	3'-0"	6'-8"	1 3/4"	---	#1	---	---	---	---
101	Hinged - Single - Exterior	3'-0"	6'-8"	1 3/4"	---	#2	---	---	---	---
102	Overhead - Sectional	12'-0"	14'-0"	1 3/4"	---	---	---	---	---	---
103	Overhead - Sectional	12'-0"	14'-0"	1 3/4"	---	---	---	---	---	---
104	Overhead - Sectional	12'-0"	14'-0"	1 3/4"	---	---	---	---	---	---
105	Hinged - Single - Exterior	3'-0"	6'-8"	1 3/4"	---	#2	---	---	---	---
106	Overhead - Sectional	12'-0"	14'-0"	1 3/4"	---	---	---	---	---	---
107	Overhead - Sectional	12'-0"	14'-0"	1 3/4"	---	---	---	---	---	---
108	Overhead - Sectional	12'-0"	14'-0"	1 3/4"	---	---	---	---	---	---
109	Hinged - Single - Exterior	3'-0"	6'-8"	1 3/4"	---	#2	---	---	---	---
110	Hinged - Single - Exterior	3'-0"	6'-8"	1 3/4"	---	#2	---	---	---	---
111	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#4	---	---	---	---
112	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#4	---	---	---	---
113	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#4	---	---	---	---
114	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#3	---	---	---	---
115	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#3	---	---	---	---
116	Hinged - Double	PR 3'-0"	6'-8"	1 3/4"	---	#7	---	---	---	---
117	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#5	---	---	---	---
118	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#3	---	---	---	---
120	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#4	---	---	---	---
121	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#4	---	---	---	---
122	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#6	---	---	---	---
123	Hinged - Single	3'-0"	6'-8"	1 3/4"	---	#6	---	---	---	---

HARDWARE SETS

- SET #1 ENTRY DOORS
HINGES BY MANUFACTURE
CYLINDER BY MANUFACTURE
THRESHOLD AND WEATHERSTRIP BY MANUFACTURE
CLOSURE BY MANUFACTURE
- SET #2 OUTSIDE EXITS
1/2 PARS HAGER BUTTS 1 1/2" X 1/2"
LOCKSET CARD KEY ENTRY W/YALE 100
CLOSER YALE AB040L
SWEEP NATIONAL GUARD 200N
STOP HAGER 230N
SET OF WEATHER STRIPPING
- SET #3 INTERIOR NO LOCK
1/2 PARS HAGER BUTTS 1 1/2" X 1/2"
LOCKSET YALE AB040L
CLOSER YALE AB040L
STOP HAGER 230N
- SET #4 INTERIOR LOCKABLE
1/2 PARS HAGER BUTTS 1 1/2" X 1/2"
LOCKSET YALE AB040L
CLOSER YALE AB040L
STOP HAGER 230N
- SET #5 BATHROOM
1/2 PARS HAGER BUTTS 1 1/2" X 1/2"
PRIVACY YALE AB040L
STOP HAGER 230N
- SET #6 MECHANICAL
1/2 PARS HAGER BUTTS 1 1/2" X 1/2"
LOCKSET YALE AB040L
CLOSER YALE AB040L
STOP HAGER 230N
- SET #7 DOUBLE DOORS
1/2 PARS HAGER BUTTS 1 1/2" X 1/2"
2 LOCKSET YALE AB040L
2 ROLLER LATCHES
2 STOP HAGER 230N
- ALL MECH. ROOMS ARE TO HAVE KNOURED SURFACES
ALL RATED & EXTERIOR DOORS ARE TO BE POSITIVE LATCH
ALL HARDWARE TO MEET NHC

GENERAL NOTES

- CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIALS, PERMITS, TAP FEES AND TESTING TO COMPLETE THE JOB.
- ALL WORK IS TO BE PERFORMED BY QUALIFIED JOURNEYMEN AND SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER.
- CONTRACTOR IS TO PROVIDE THE ALL SHOP DRAWINGS AND SAMPLES FOR APPROVAL PRIOR TO BEGINNING THE WORK IN THAT AREA & COPIES WILL BE REQUIRED FOR ALL SUBMITTALS.
- CONTRACTOR IS TO VISIT THE SITE PRIOR TO BIDDING AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. LACK OF KNOWLEDGE OF EXISTING CONDITIONS WILL NOT CONSTITUTE A CHANGE ORDER.
- ANY CHANGES IN THE MATERIALS SPECIFIED WILL HAVE TO BE APPROVED PRIOR TO THE BID AND WILL NOT BE ALLOWED AFTER CONSTRUCTION BEGINS.
- FOR EXPERIENCE ALL QUESTIONS SHOULD BE DIRECTED TO THE OWNER.
- USE COMMERCIAL FLUSH VALVES ONLY.
- TANKLESS WATER HEATERS ONLY.

BUILDING DATA 2012 IBC

OCCUPANCY TYPE: S1 STORAGE/BUSINESS			
CONSTRUCTION TYPE: IIB		# OF STORIES: 2	
PROTECTED	UNPROTECTED *	SPRINKLERED	UNSPRINKLERED *
ALLOWABLE SF (PER IBC TABLE 503):		17,500 SF	
MODIFICATION (PER IBC 506): NONE			
ACTUAL SF: MAIN = 6,000 SF		MEZZANINE = 2,443 SF	
ALLOWABLE HGT (PER IBC TABLE 503): 2 STORY 55'			
ACTUAL HGT: 2 STORY - 20'			
# OF EXITS: 5		TOTAL SIZE OF EXITS: 15'(180')	
REQUIRED DISTANCE BETWEEN EXITS: 55'		ACTUAL DISTANCE: 100'	
MAXIMUM TRAVEL DISTANCE ALLOWED: 200'		ACTUAL DISTANCE: 87'	
OCCUPANCY LOAD: 36			
EXTERIOR WALL RATING	N.A.		
INTERIOR WALL RATING	N.A.		
STAR CORRIDOR WALL RATING	N.A.		
COLUMN RATING	N.A.		
CEILING RATING	N.A.		

NO WINDOWS AND EXTERNAL DOORS REQUIRED

ROOM FINISH SCHEDULE - NO CARPET OR TILE REQUIRED

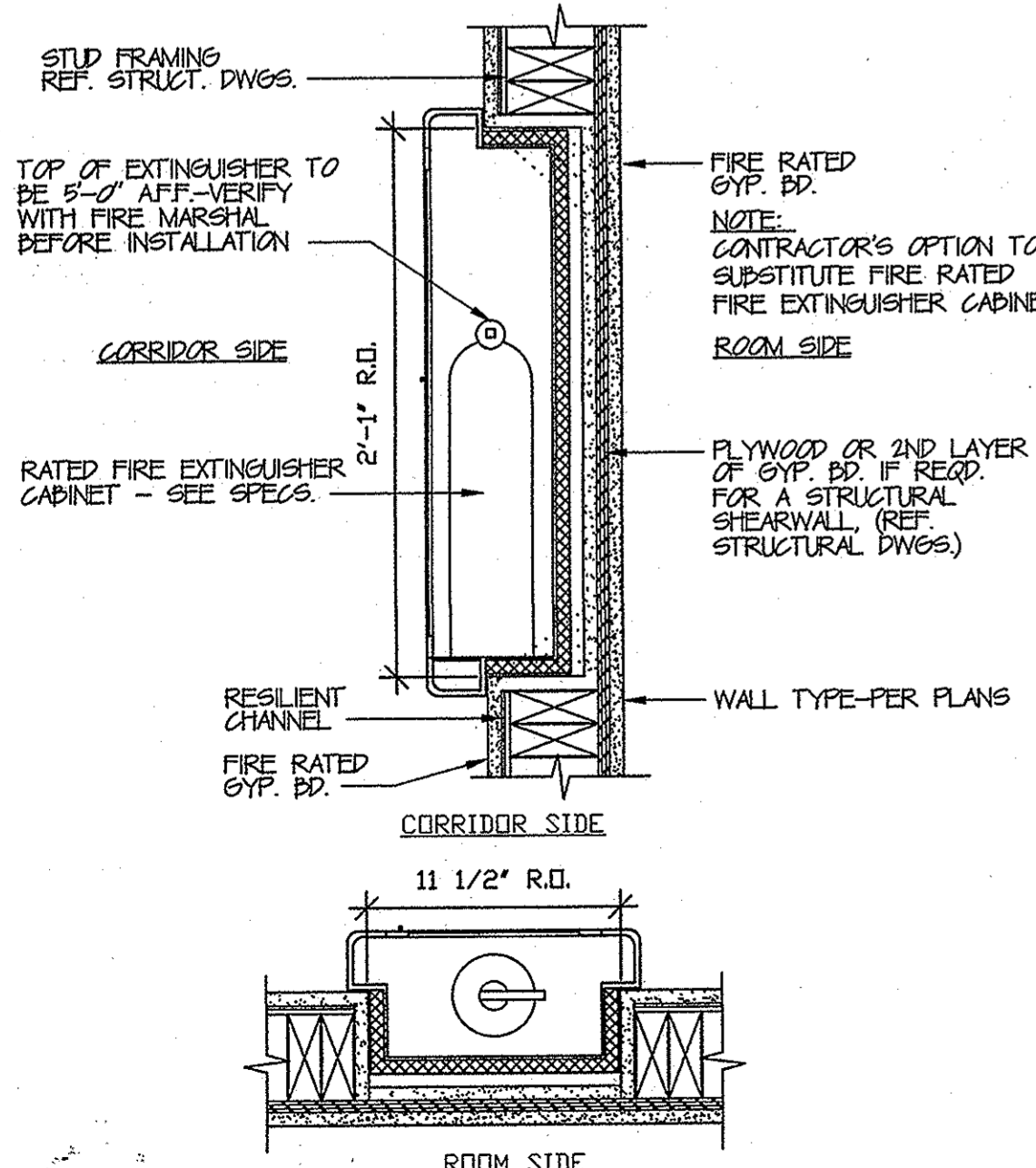
ROOM NO	ROOM NAME	FLOOR	WALLS				CEILING		HEIGHT	NOTES
			N	S	E	W	MATL	HEIGHT		
100	CONFERENCE	CARPET	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
101	OFFICE	CARPET	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
102	OFFICE	CARPET	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
103	OFFICE	CARPET	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
104	BREAKROOM	TILE	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
105	WOMEN	TILE	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
106	MEN	TILE	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
107	STORAGE	CARPET	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
108	HALL	CARPET	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
109	SHOP	CONC.	-	-	-	-	-	20'-0"		
110	JANITOR	CARPET	GYP	GYP	GYP	GYP	ACC TILE	9'-0"		
200	2ND LEVEL	ADVANTECH	-	-	-	-	-	9'-0"		

WINDOW SCHEDULE

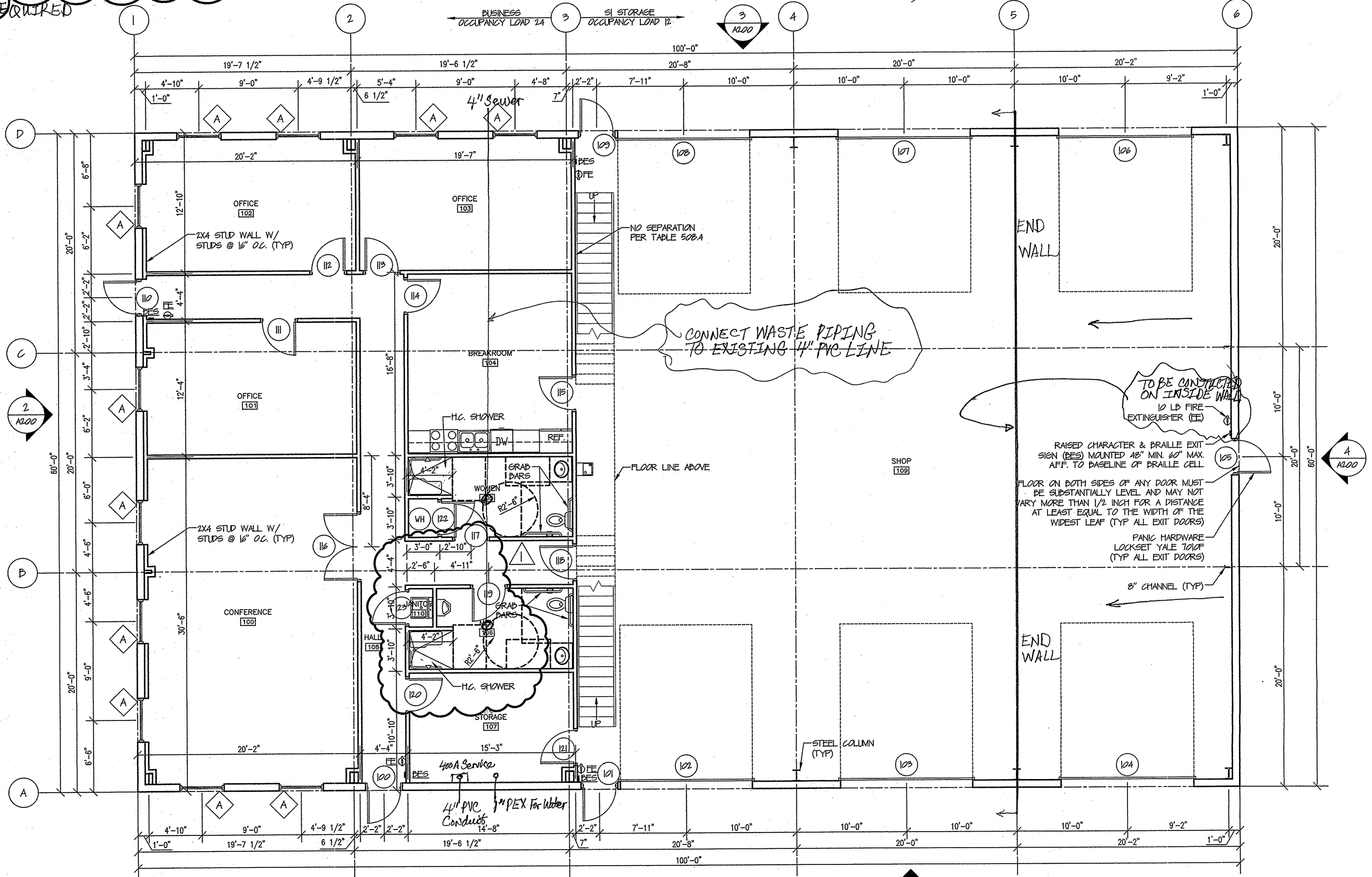
MARK	STYLE	SIZE		MATERIAL	REMARKS	QUANTITY
		WIDTH	HEIGHT			
A	Picture	4'-0"	4'-0"	---	---	11
						11

FIRE EXTINGUISHER CABINETS

- ALL FIRE EXTINGUISHER CABINETS TO BE MANUFACTURED BY J.L. INDUSTRIES, INC. OR APPROVED EQUAL.
- FURNISH FIRE-RATED CABINET WITH FIRE-FX OPTION AND ADAC OPTION TO MEET ALL ADA AND NFPA CODES.
- CABINET TO BE FABRICATED IN ACCORDANCE WITH THE WARNOCK HERSEY CERTIFIED DESIGN AND SHALL CARRY WARNOCK HERSEY LABEL FOR 1- AND 2- HOUR COMBUSTIBLE AND NON-COMBUSTIBLE WALLS.
- CABINET TO BE FABRICATED IN ACCORDANCE WITH UPC 43-6 (ASTM E84-08) TO MEASURE FIRE RESISTIVE PERFORMANCE.
- CABINET TO BE ACADENY 1071MD WITH COSMIC ICE EXTINGUISHER WALL DIMENSION (11-1/2" X 25 1/2" X 3 5/8")



2 FIRE EXTINGUISHER CABINET
A100 SCALE: 1-1/2" = 1'-0"



1 MAIN LEVEL FLOOR PLAN
A100 SCALE: 3/16" = 1'-0" 6,000 SQUARE FEET

STAIR NOTES

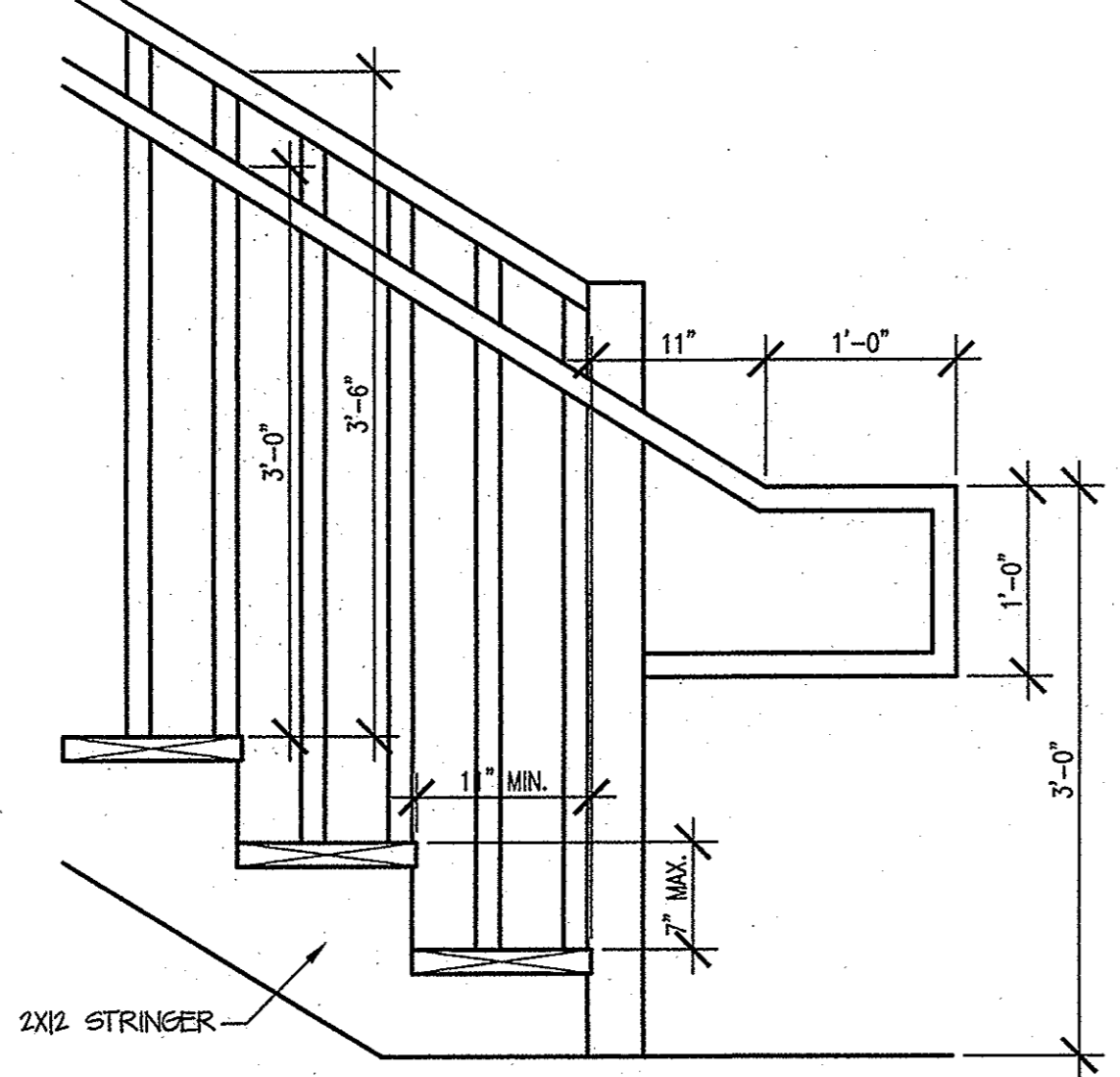
1. THE OWNER/CONTRACTOR SHALL VERIFY STAIR NOTES WITH LOCAL BUILDING CODES AND AUTHORITIES.
2. TREADS AND RISERS ARE TO BE PROPORTIONED SO THAT THE SUM OF TWO RISERS PLUS A TREAD IS A MINIMUM OF 24" AND A MAXIMUM OF 25".
3. THE MAXIMUM HEIGHT OF A RISER IS NOT TO BE MORE THAN 7" AND THE TREAD MAY NOT BE LESS THAN 11" WIDE. IT SHALL NOT HAVE A NOSING OF OVER 1".
4. TREADS AND RISERS SHALL BE UNIFORM BETWEEN FLOORS.
5. TREADS AND RISERS SHALL BE DIMENSIONED AS REQUIRED BY HEIGHT OF FLOOR AND GRADE LEVEL.
6. MAXIMUM VARIATION IN TREAD AND RISER DIMENSIONS SHALL BE 5/8".
7. IF THE HEIGHT OF ANY ELEVATED FLOOR IS ABOVE FINISHED GRADE BY 3/4" OR MORE A GUARDRAIL WITH A MAXIMUM HEIGHT OF 42" SHALL BE INSTALLED AROUND ENTIRE PERIMETER OF THE OPEN FLOOR AREA EXCLUDING THE SIDE WHERE STEPS MAY OCCUR.
8. GUARDRAIL SHALL INCLUDE BALLESTRAES SPACED NOT TO PERMIT THE PASSAGE OF A 4" DIAMETER SPHERE THROUGH ANY PORTION OF THE RAILING.
9. IF NUMBER OF STAIRS EXCEEDS TWO RISERS, A HANDRAIL SHALL BE PROVIDED ON ONE SIDE OF STAIRS.
10. IF HEIGHT OF THE ELEVATED FLOOR IS MORE THAN 30" ABOVE FINISHED GRADE A HANDRAIL IS REQUIRED ON EACH SIDE OF THE STAIRS.
11. HEIGHT OF HANDRAIL SHALL BE A MINIMUM OF 34" AND A MAXIMUM OF 38". MAXIMUM DIAMETER OF HANDRAIL SHALL BE 2 5/8".
12. STAIRS ARE TO BE A MINIMUM WIDTH OF 36" CLEAR.

PAINTING AND STAINING NOTES

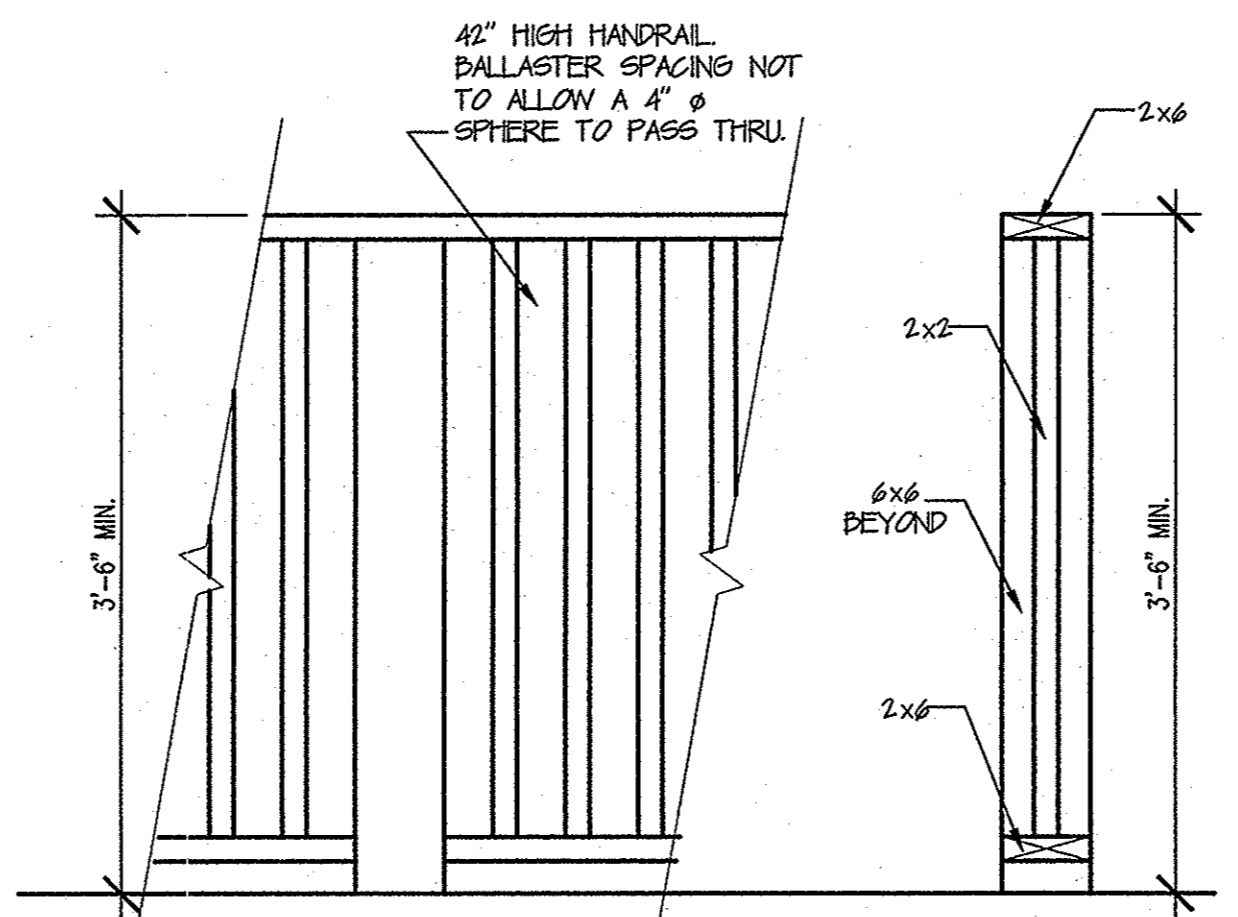
1. ALL PAINTING AND STAINING SHALL BE PERFORMED BY QUALIFIED JOURNEYMEN AND SHALL BE FREE OF ANY DUSTS AND DEBRIS.
2. ALL PAINTING SHALL BE A 3 COAT PROCESS WITH A PRIMER COAT AND 2 FINISH COATS. PAINT TO BE SHERWIN WILLIAMS PRIMAER SERIES.
3. ALL STAINING SHALL BE A 3 COAT PROCESS WITH EACH COAT Sanded PRIOR TO THE APPLICATION OF THE NEXT COAT.
4. ALL WALLS AND CEILING ARE TO RECEIVE FLAT PAINT WITH ALL DOORS AND TRIM TO RECEIVE A SEMI GLOSS LATEX ENAMEL.
5. ALL SURFACES SHALL BE REASONABLY FREE OF BRUSH MARKS AND ORANGE PEEL.
6. ALL COLORS WILL BE CHOSEN BY THE OWNER. SAMPLES OF STAIN COLORS ON THE PROPER WOOD WILL BE REQUIRED.

GYPSUM BOARD NOTES

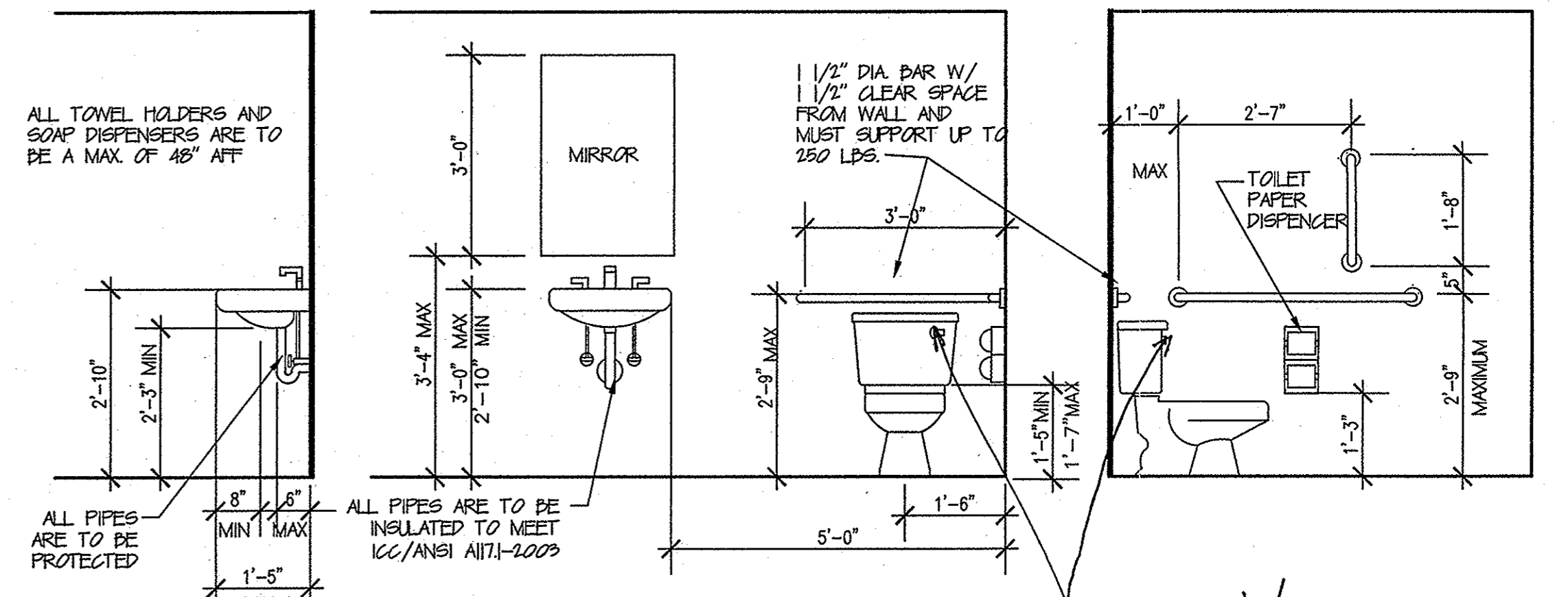
- 1 - ALL GYPSUM TO BE INSTALLED BY QUALIFIED JOURNEYMEN AND INSTALLED TO MANUFACTURER SPECIFICATIONS.
- 2 - ALL HIGH TRAFFIC AREAS TO RECEIVE GOLD BOND FIRE-SHIELD HI-IMPACT WALL BOARD PANELS OR EQUAL (SEE PLANS FOR THICKNESS).
- 3 - ALL OTHER AREAS ARE TO RECEIVE GOLD BOND FIRE SHIELD (SEE PLANS FOR THICKNESS REQUIRED).
- 4 - ALL BATHROOMS AND RESTROOMS TO RECEIVE MOISTURE RESISTANT GYP.
- 5 - ALL EXTERIOR GYP SHEATHING IS TO BE DENS-CLASS GOLD SHEATHING BY G-P GYPSUM CORP. OR EQUAL.
- 6 - ALL GYP. PRODUCTS MUST MEET ASTM C36 STANDARDS.
- 7 - ALL ACCESSORY PIECES SHALL BE MANUFACTURE BY UNITED STATES GYPSUM COMPANY OR EQUAL.



6 WOOD STAIR DETAIL
A101 SCALE: 1" = 1'-0"



5 HANDRAIL DETAIL
A101 SCALE: 1" = 1'-0"

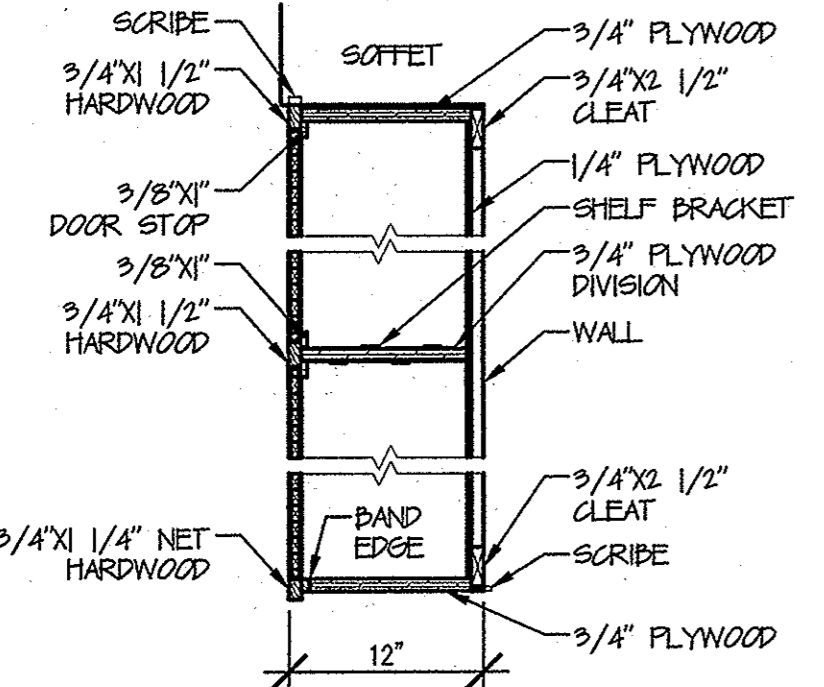


4 H.C. LAV. DETAILS
A101 SCALE: 1/2" = 1'-0"

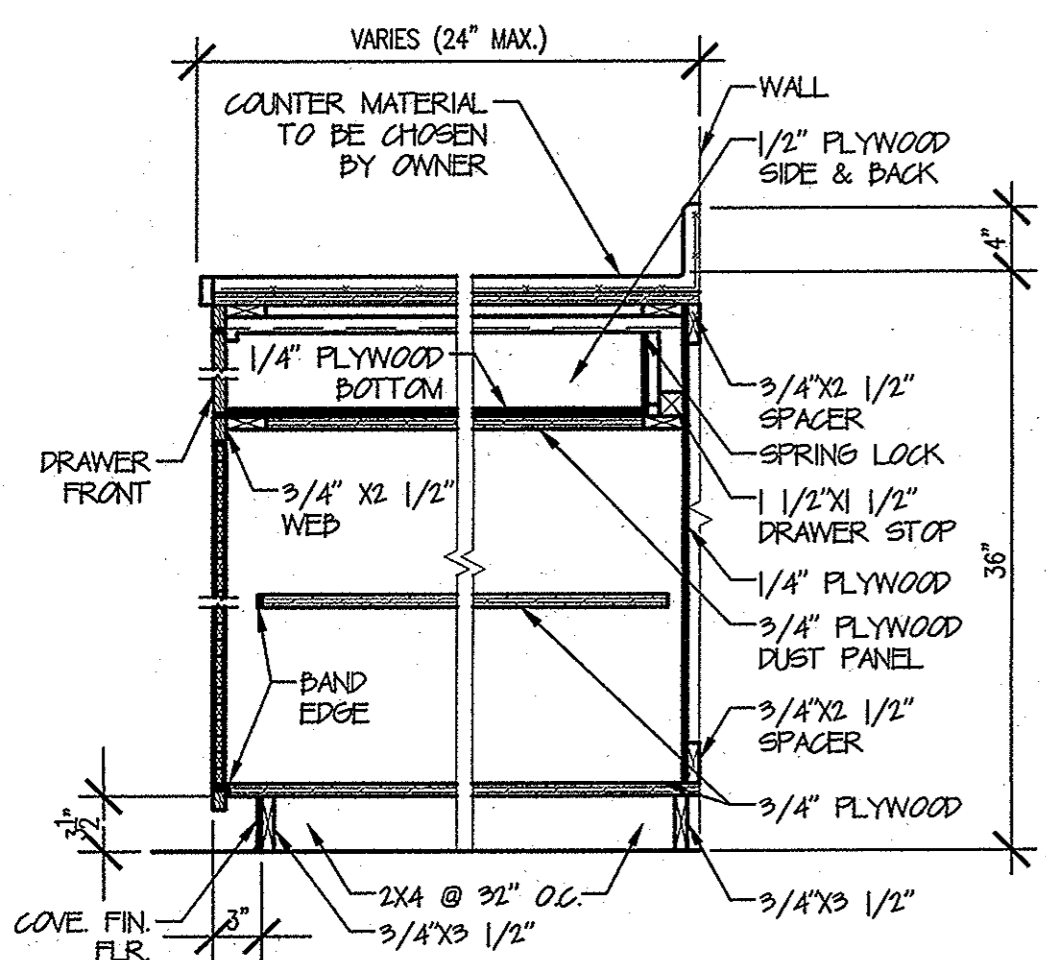
Use Commercial Flush Valves Only

GYPSUM BOARD NOTES

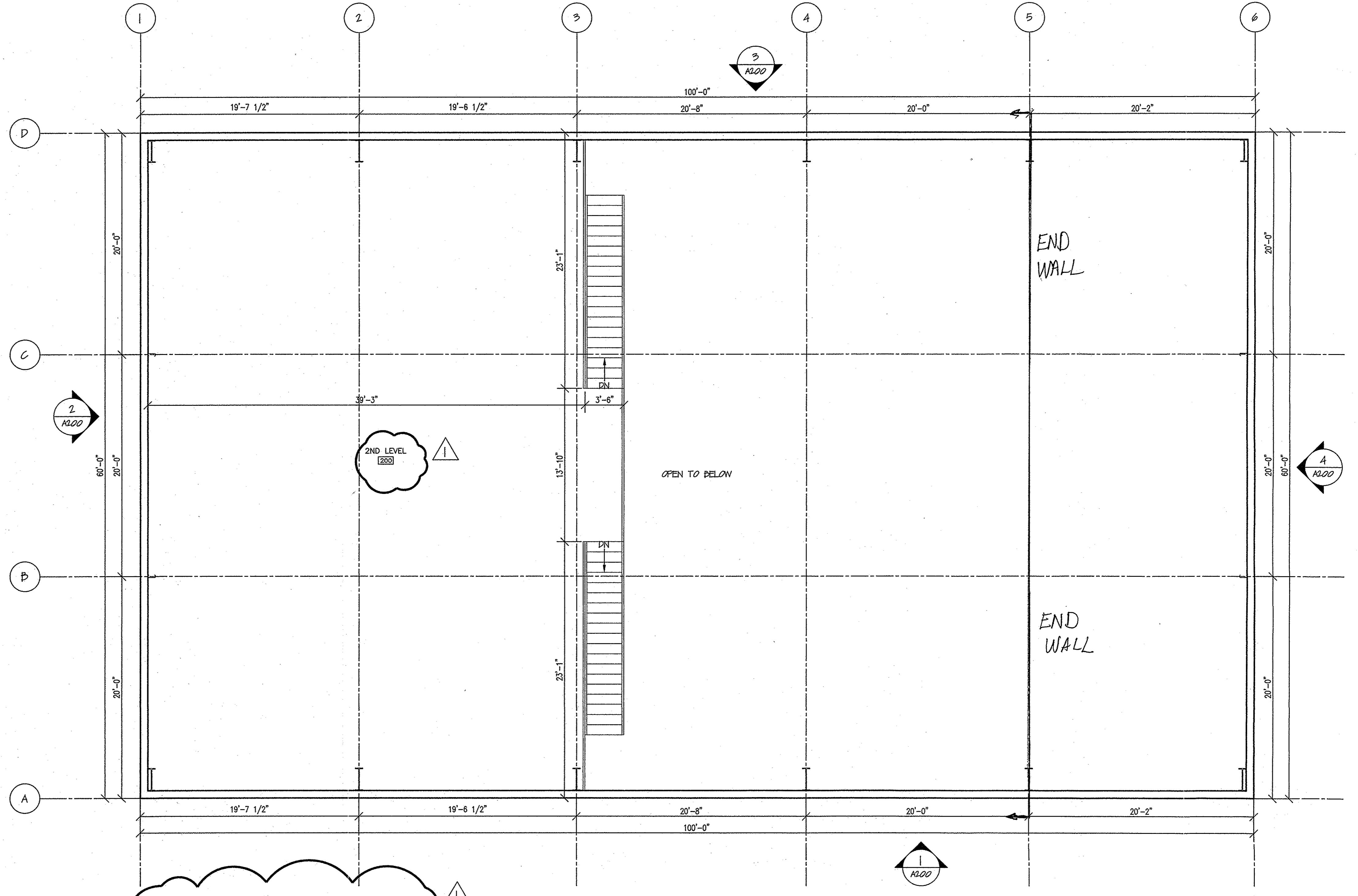
- 1 - ALL GYPSUM TO BE INSTALLED BY QUALIFIED JOURNEYMEN AND INSTALLED TO MANUFACTURER SPECIFICATIONS.
- 2 - ALL HIGH TRAFFIC AREAS TO RECEIVE GOLD BOND FIRE-SHIELD HI-IMPACT WALL BOARD PANELS OR EQUAL (SEE PLANS FOR THICKNESS).
- 3 - ALL OTHER AREAS ARE TO RECEIVE GOLD BOND FIRE SHIELD (SEE PLANS FOR THICKNESS REQUIRED).
- 4 - ALL BATHROOMS AND RESTROOMS TO RECEIVE MOISTURE RESISTANT GYP.
- 5 - ALL EXTERIOR GYP SHEATHING IS TO BE DENS-CLASS GOLD SHEATHING BY G-P GYPSUM CORP. OR EQUAL.
- 6 - ALL GYP. PRODUCTS MUST MEET ASTM C36 STANDARDS.
- 7 - ALL ACCESSORY PIECES SHALL BE MANUFACTURE BY UNITED STATES GYPSUM COMPANY OR EQUAL.



3 WALL CABINET DETAIL
A101 SCALE: 1" = 1'-0"



2 BASE CABINET DETAIL
A101 SCALE: 1" = 1'-0"

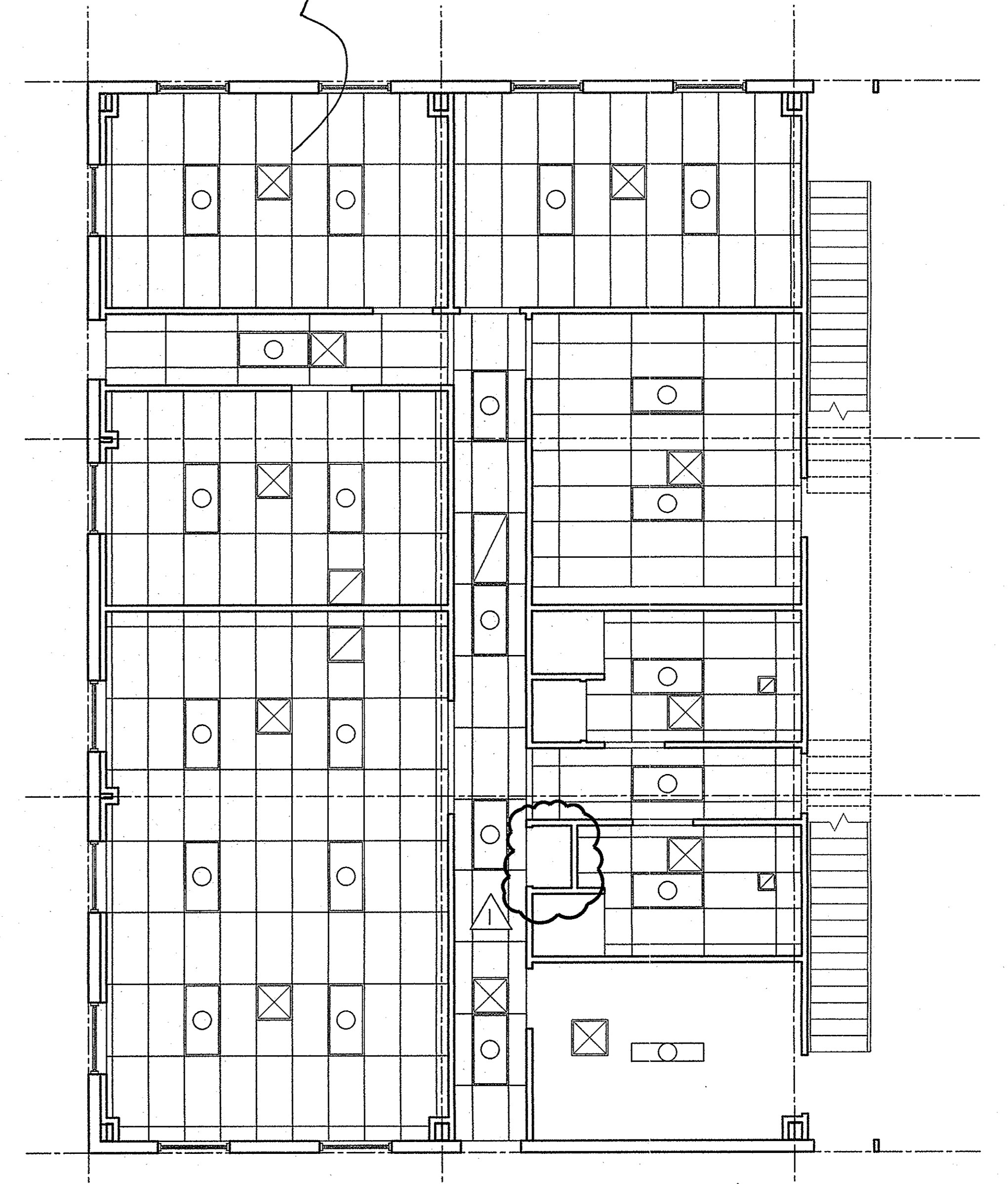
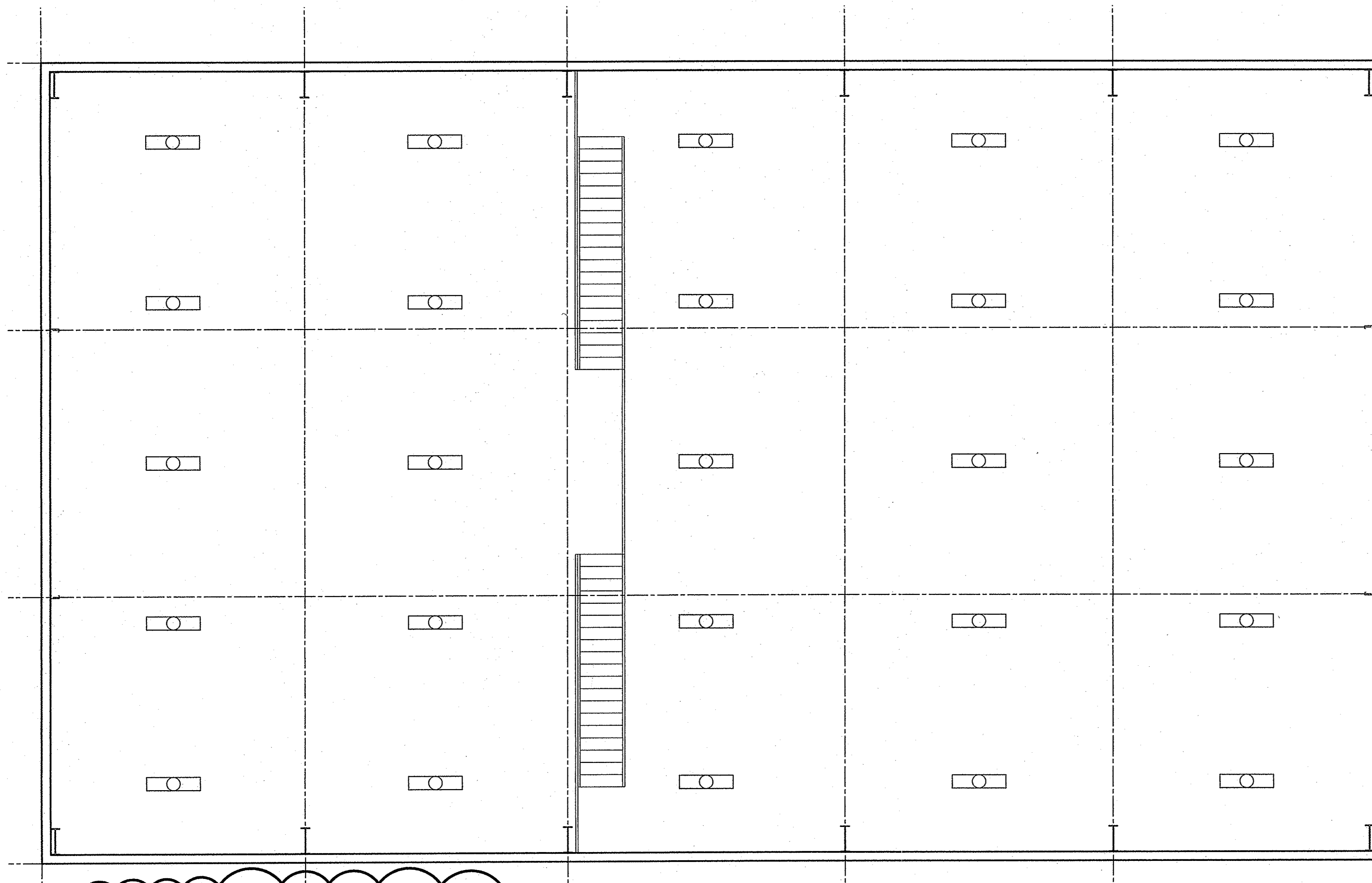


1 2ND LEVEL FLOOR PLAN
A100 SCALE: 3/16" = 1'-0" 2,443 SQUARE FEET

LIGHTING IN SHOP AREA BY ANOTHER CONTRACT

ACOUSTICAL CEILING NOTES

1. CEILING TO BE INSTALLED BY QUALIFIED JOURNEYMEN.
2. GRID IN THE PUBLIC SPACES IS TO BE DONN FINELINE NARROW 3/16" WHITE.
3. TILE IS TO BE ARMSTRONG SCORED CLASSIC STEP CURRUS 2X2'.
4. ALL TILE IS TO FIT TIGHT AND BE FREE FROM ROUGH EDGES.



1

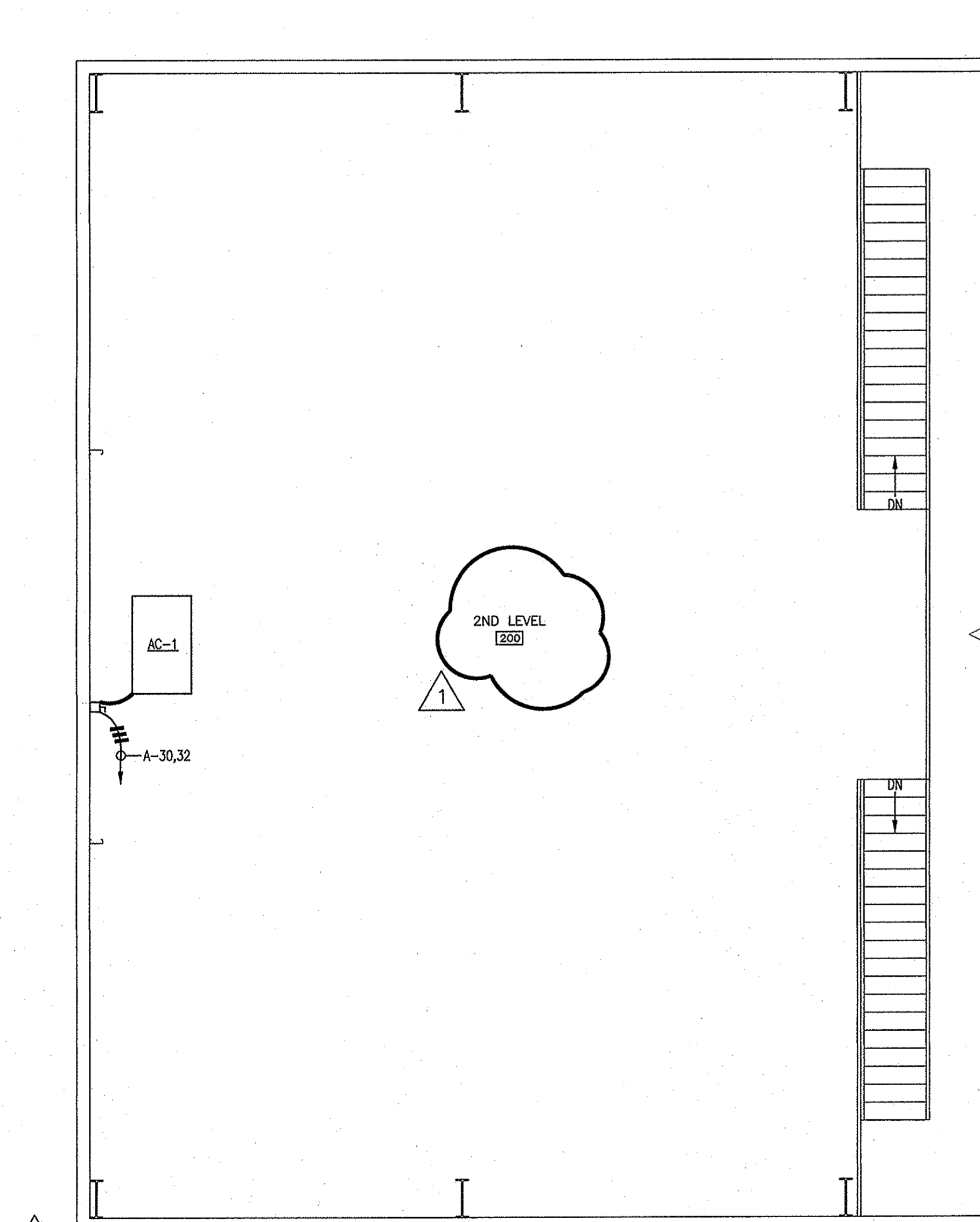
2 2ND LEVEL REFLECTED CEILING PLAN

A102 SCALE: 3/16" = 1'-0"

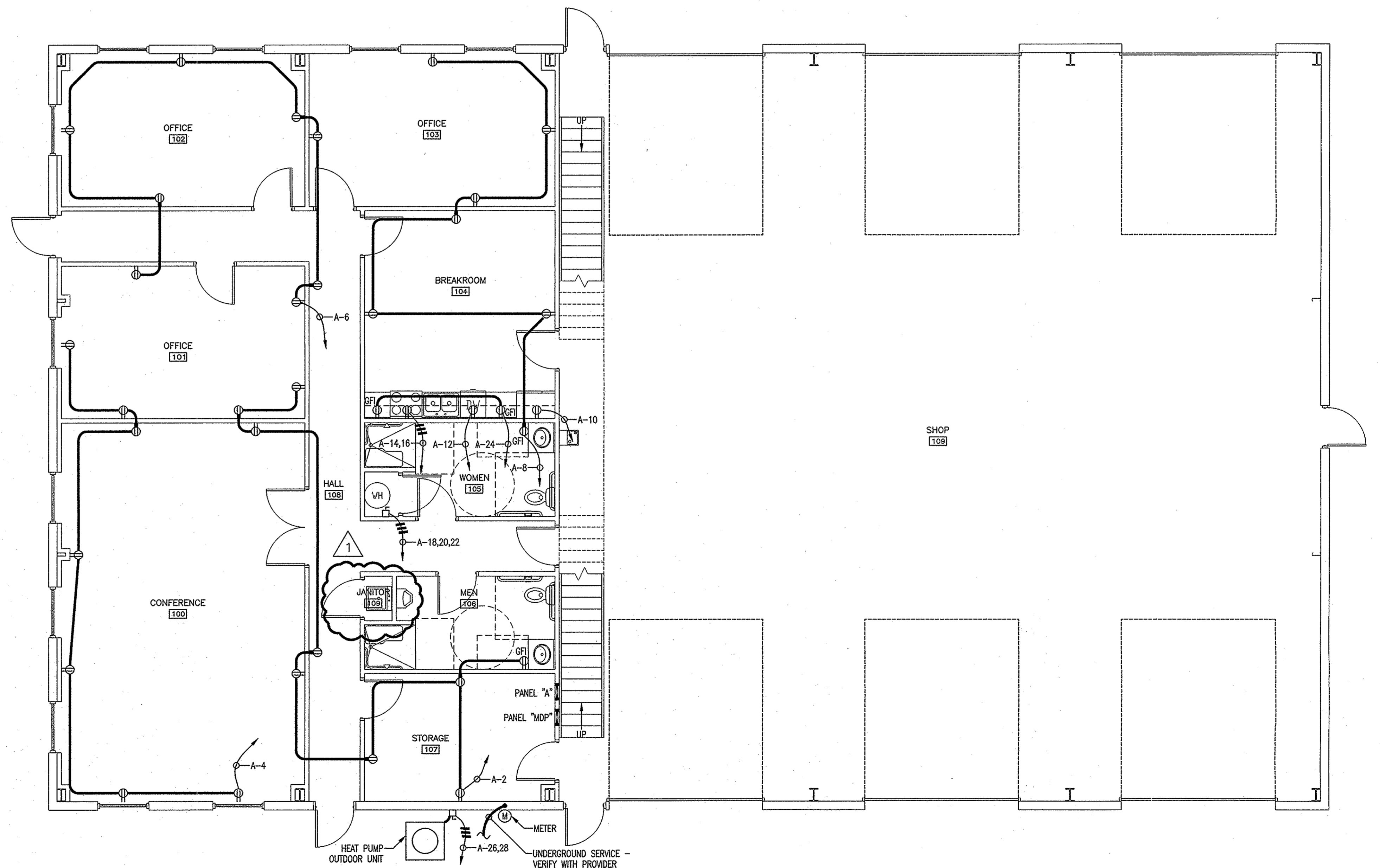
1

1 MAIN LEVEL REFLECTED CEILING PLAN

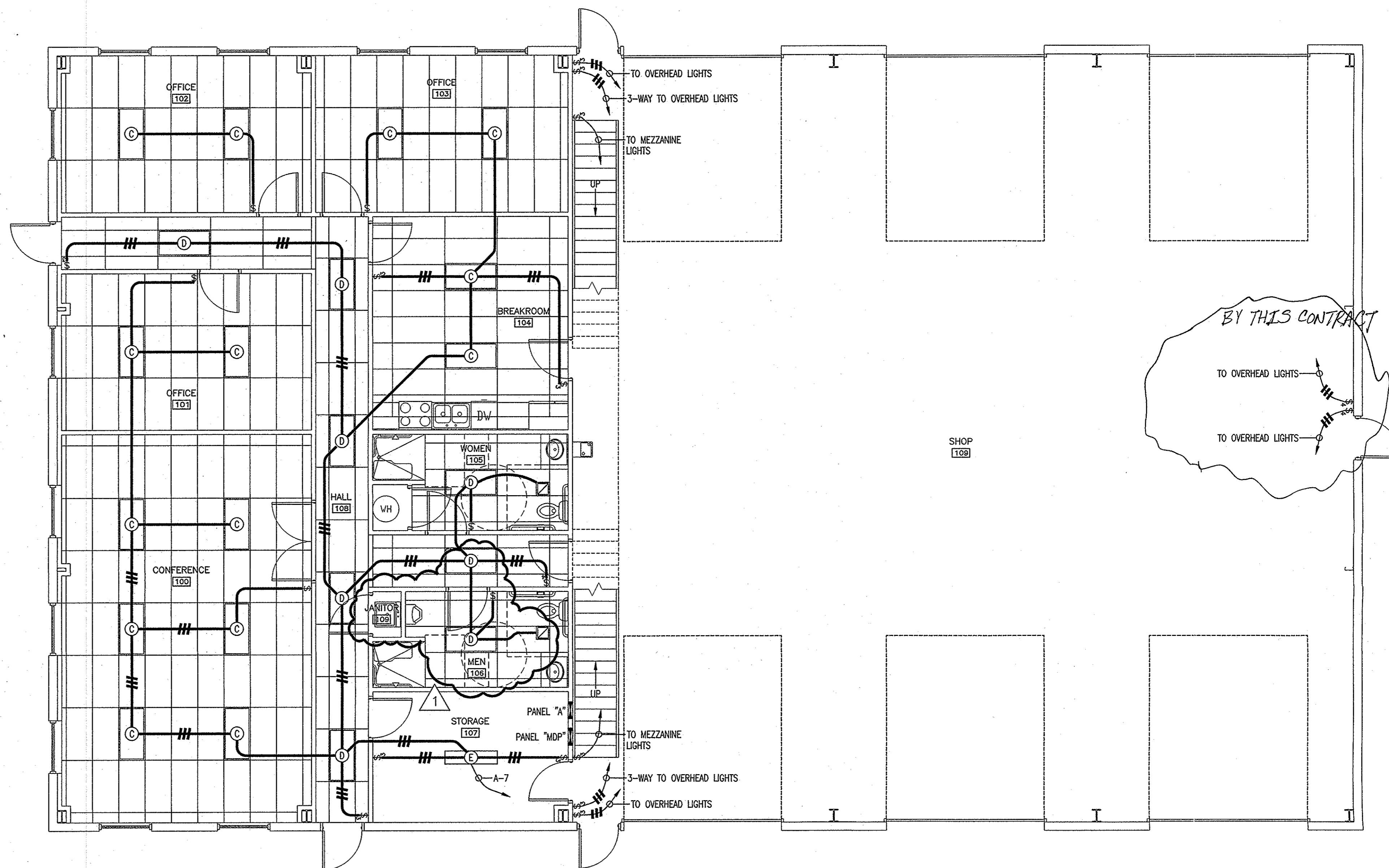
A102 SCALE: 3/16" = 1'-0"



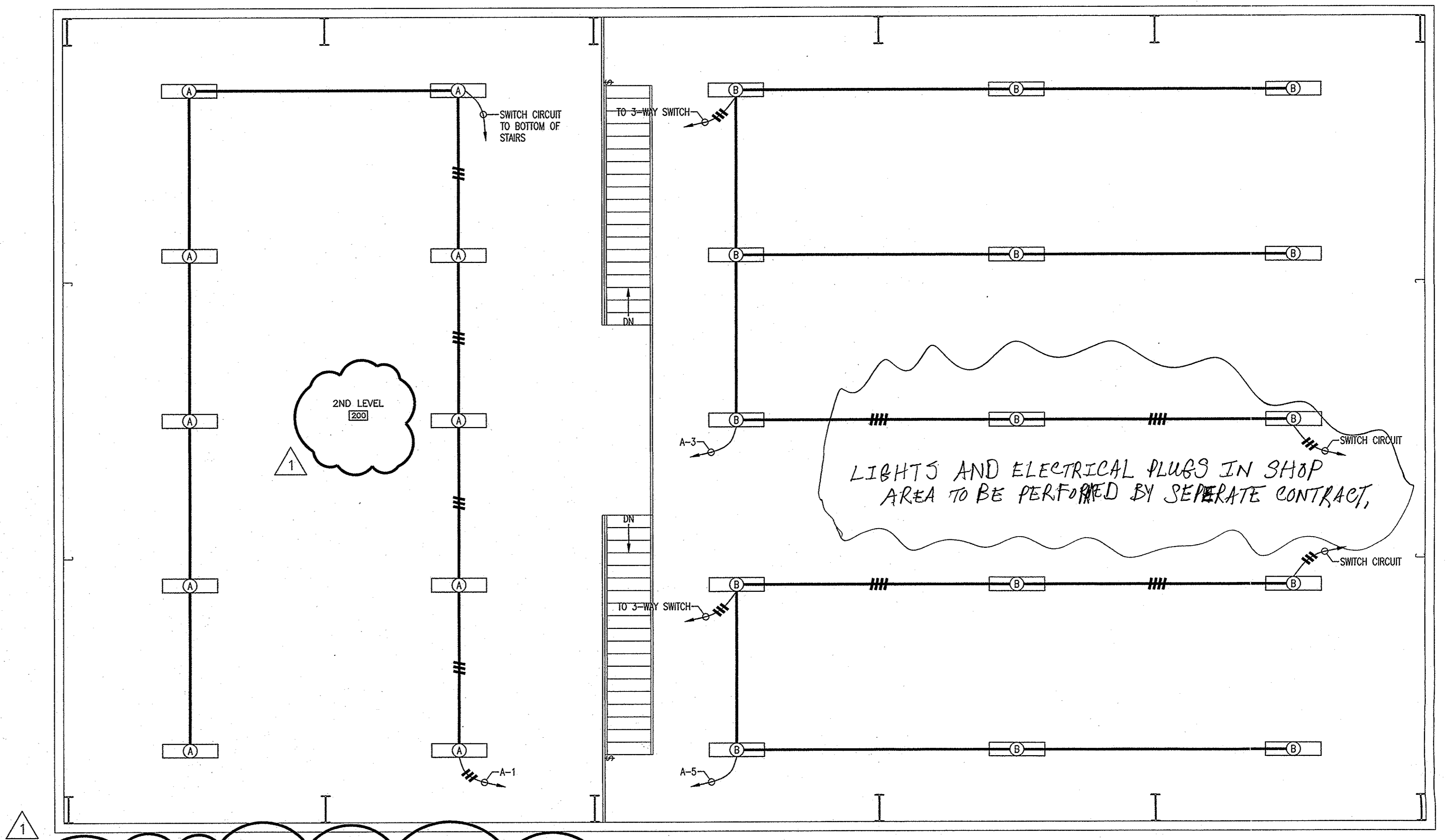
2 2ND LEVEL FLOOR PLAN - POWER & COMM.
 E101 SCALE: 3/16" = 1'-0"



1 MAIN LEVEL FLOOR PLAN - POWER & COMM.
 E100 SCALE: 3/16" = 1'-0"

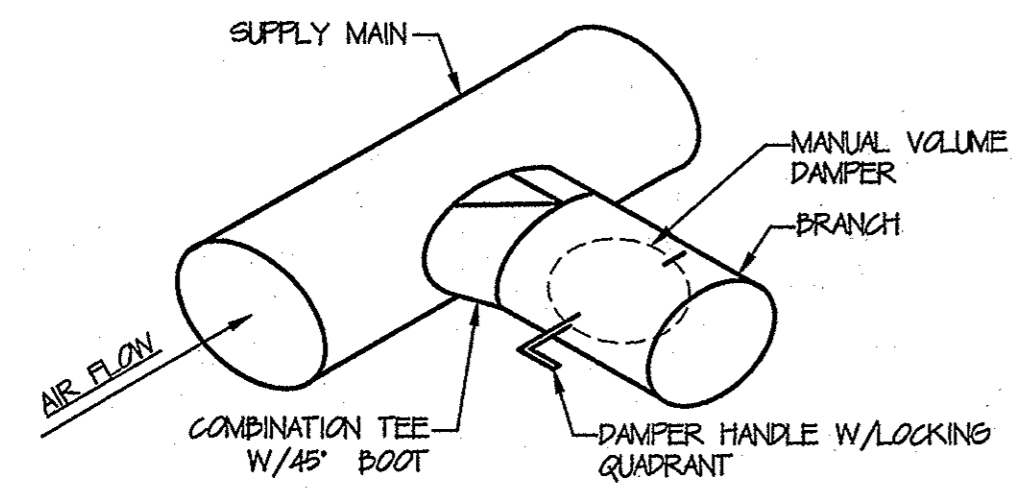


1 MAIN LEVEL FLOOR PLAN - LIGHTING
 E101 SCALE: 3/16" = 1'-0"

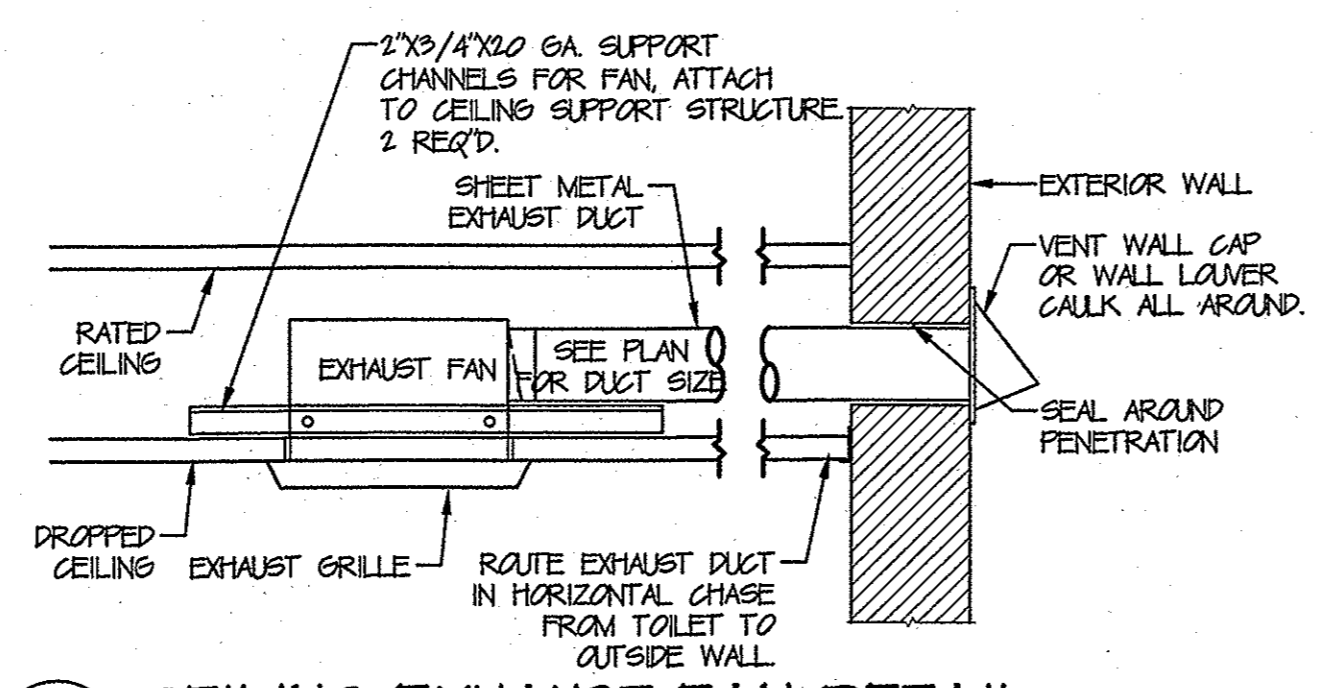


1
 1 2ND LEVEL FLOOR PLAN - LIGHTING
 E102 SCALE: 3/16" = 1'-0"

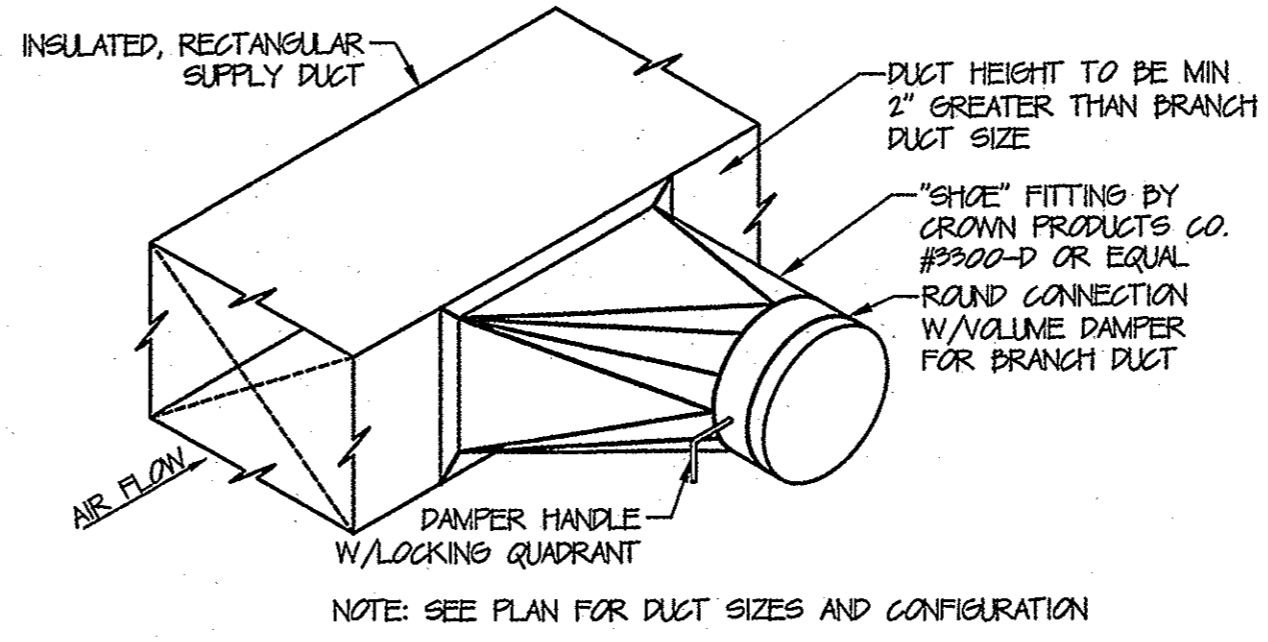
HEAT PUMPS TO BE SIZED AND SUBMITTED TO CITY WITH INITIAL BID. UNITS TO BE RUMD OR EQUAL.



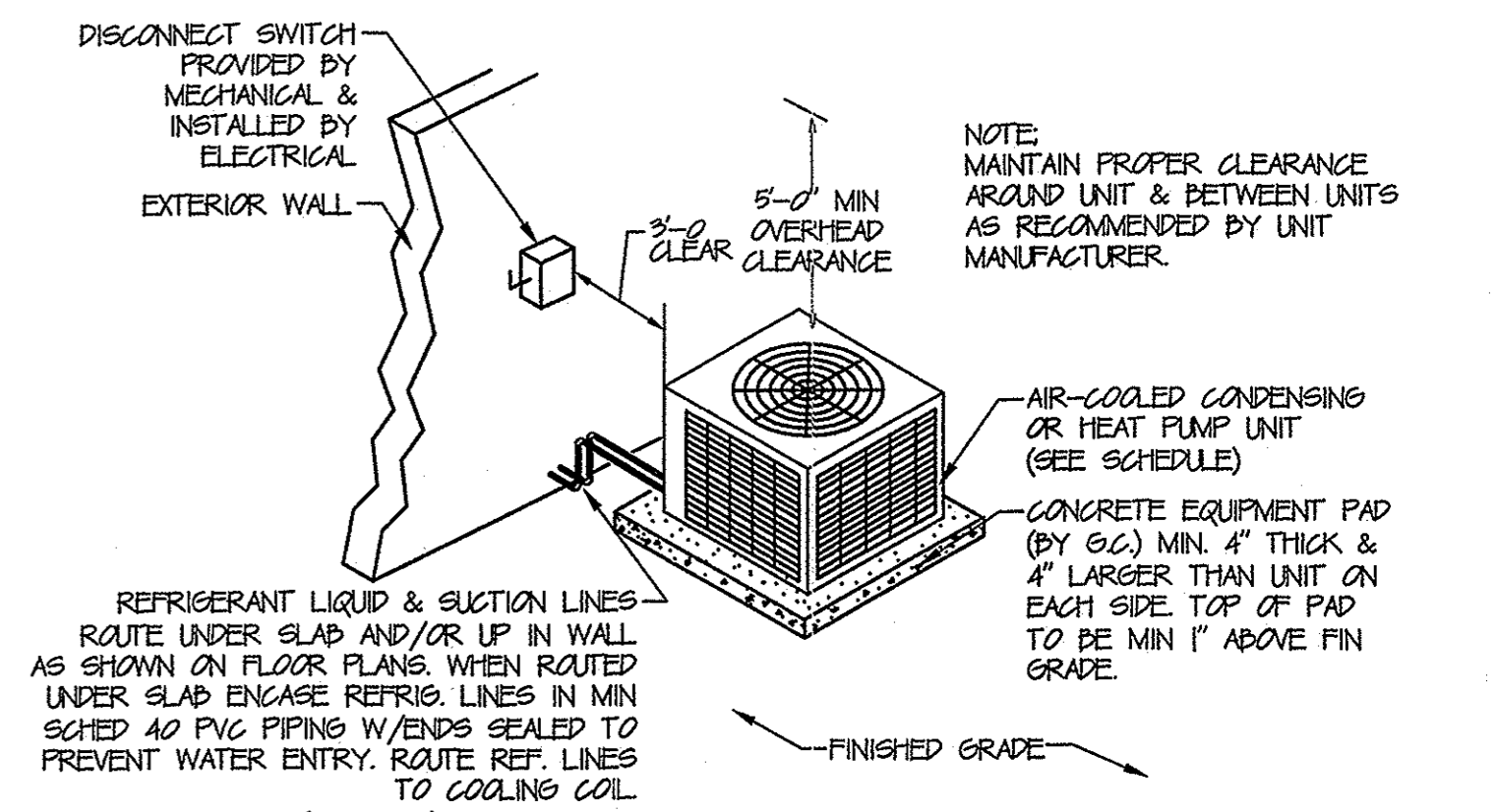
6 TYP. ROUND TO ROUND BRANCH TAKE-OFF FITTING
M100 SCALE: NOT TO SCALE



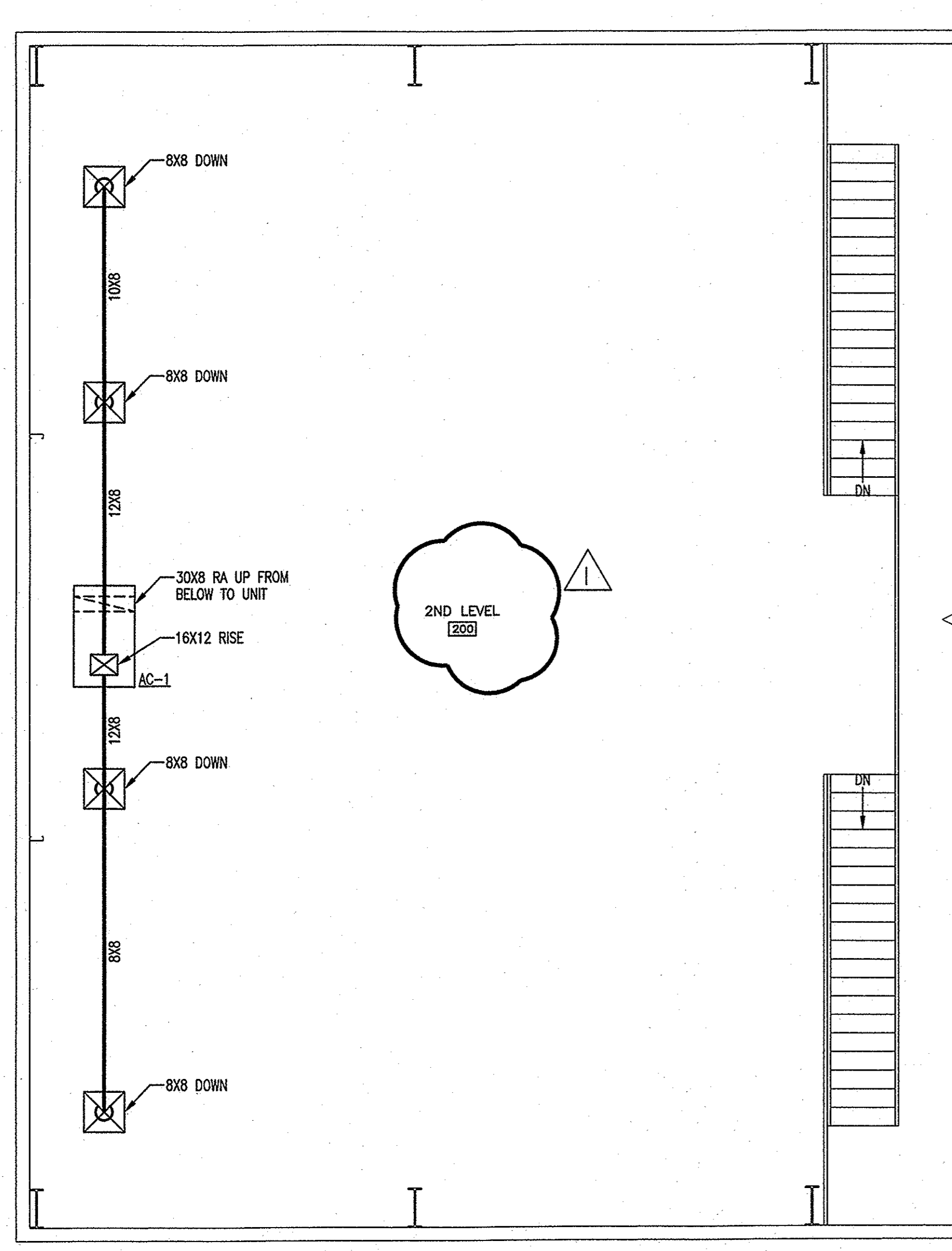
5 CEILING EXHAUST FAN DETAIL
M100 SCALE: NOT TO SCALE



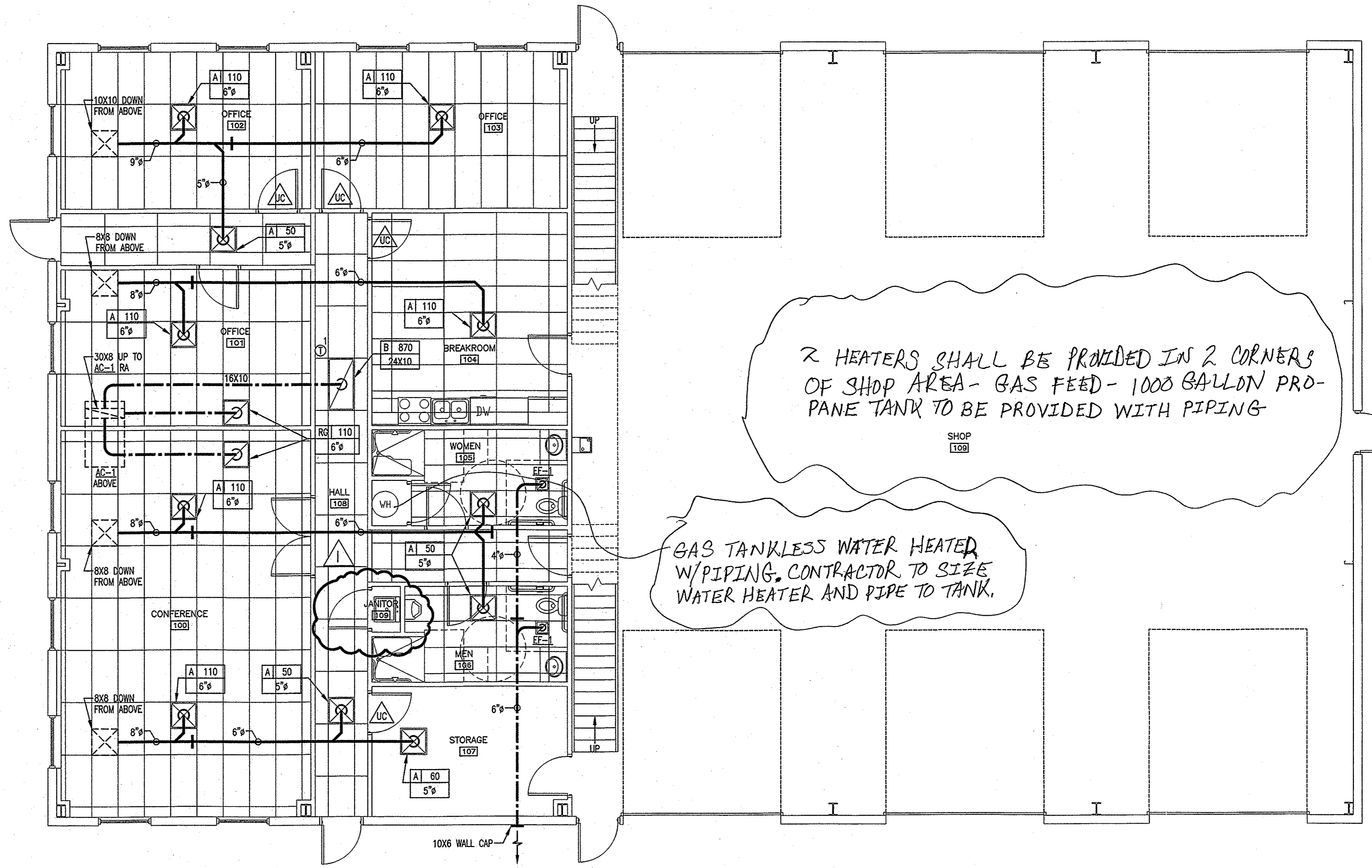
4 (TYP) RECTANGULAR TO ROUND 45° BRANCH TAKE-OFF FITTING
M100 SCALE: NOT TO SCALE



3 (TYP) AIR-COOLED CONDENSING/HEAT PUMP UNIT INSTALLATION DETAIL
M100 SCALE: NOT TO SCALE



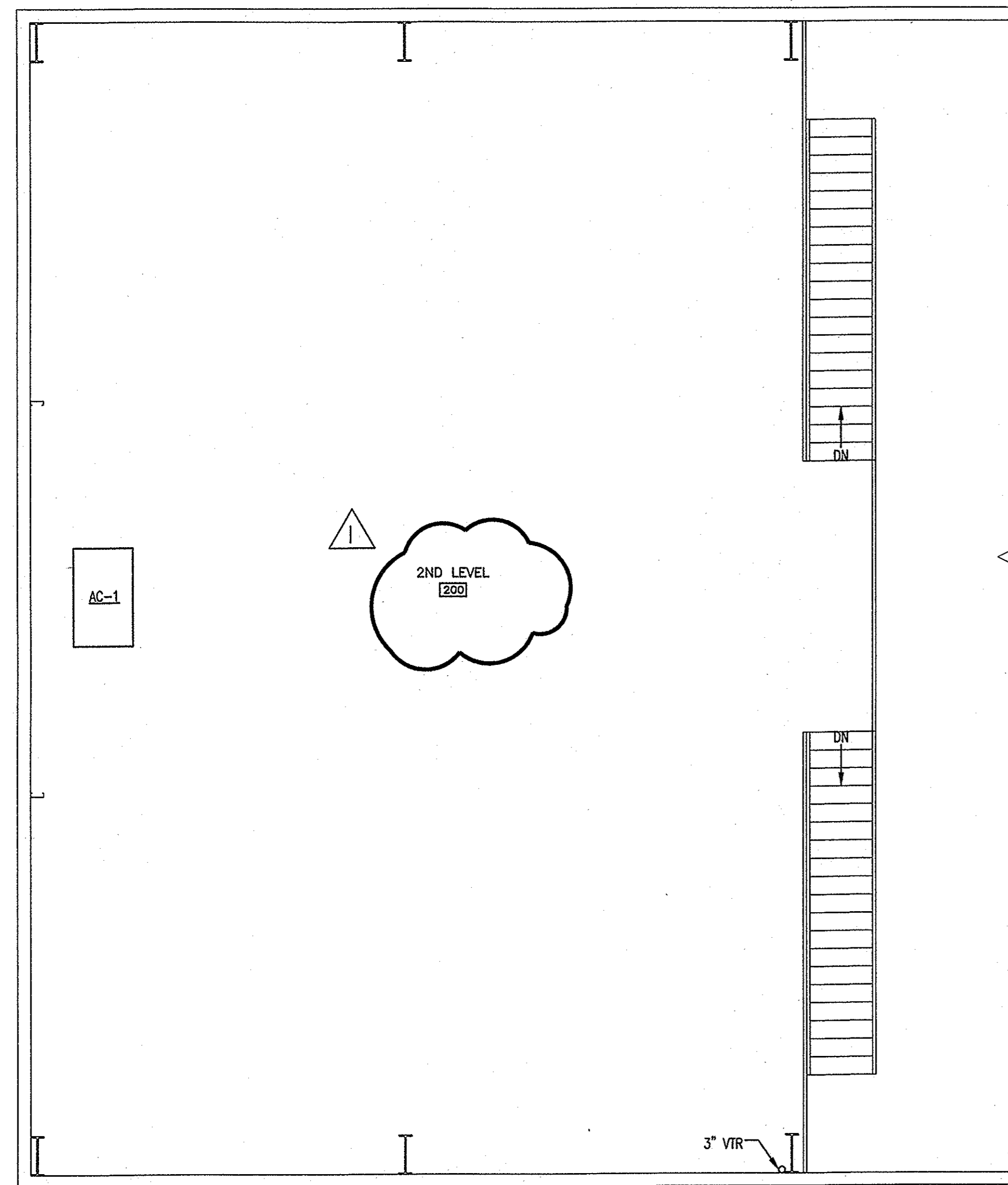
2 2ND LEVEL HYAC PLAN
M100 SCALE: 3/16\" = 1'-0"



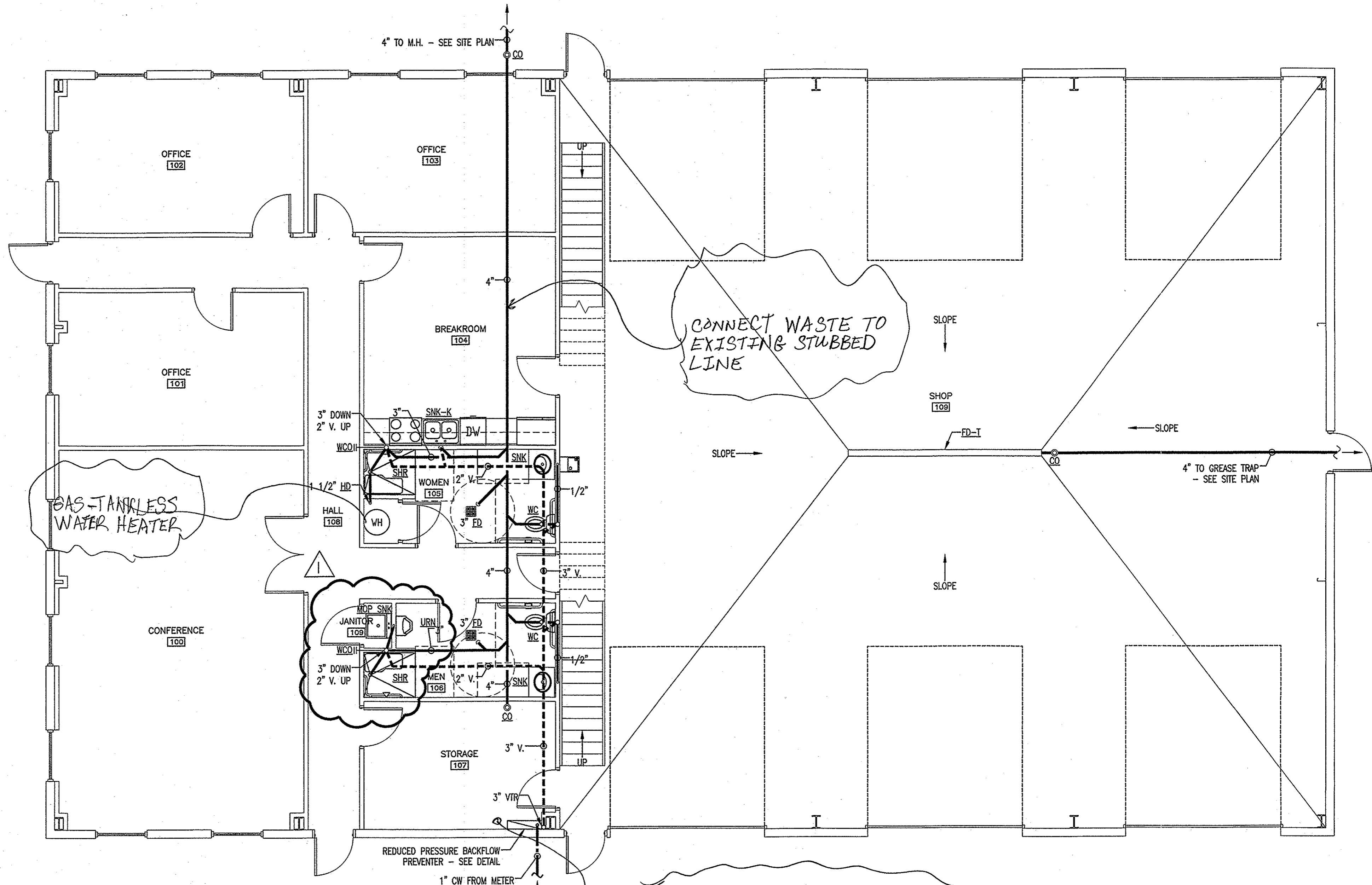
1 MAIN LEVEL HYAC PLAN
M100 SCALE: 3/16\" = 1'-0"

2 HEATERS SHALL BE PROVIDED IN 2 CORNERS OF SHOP AREA - GAS FEED - 1000 GALLON PROPANE TANK TO BE PROVIDED WITH PIPING

GAS TANKLESS WATER HEATER W/PIPING. CONTRACTOR TO SIZE WATER HEATER AND PIPE TO TANK.



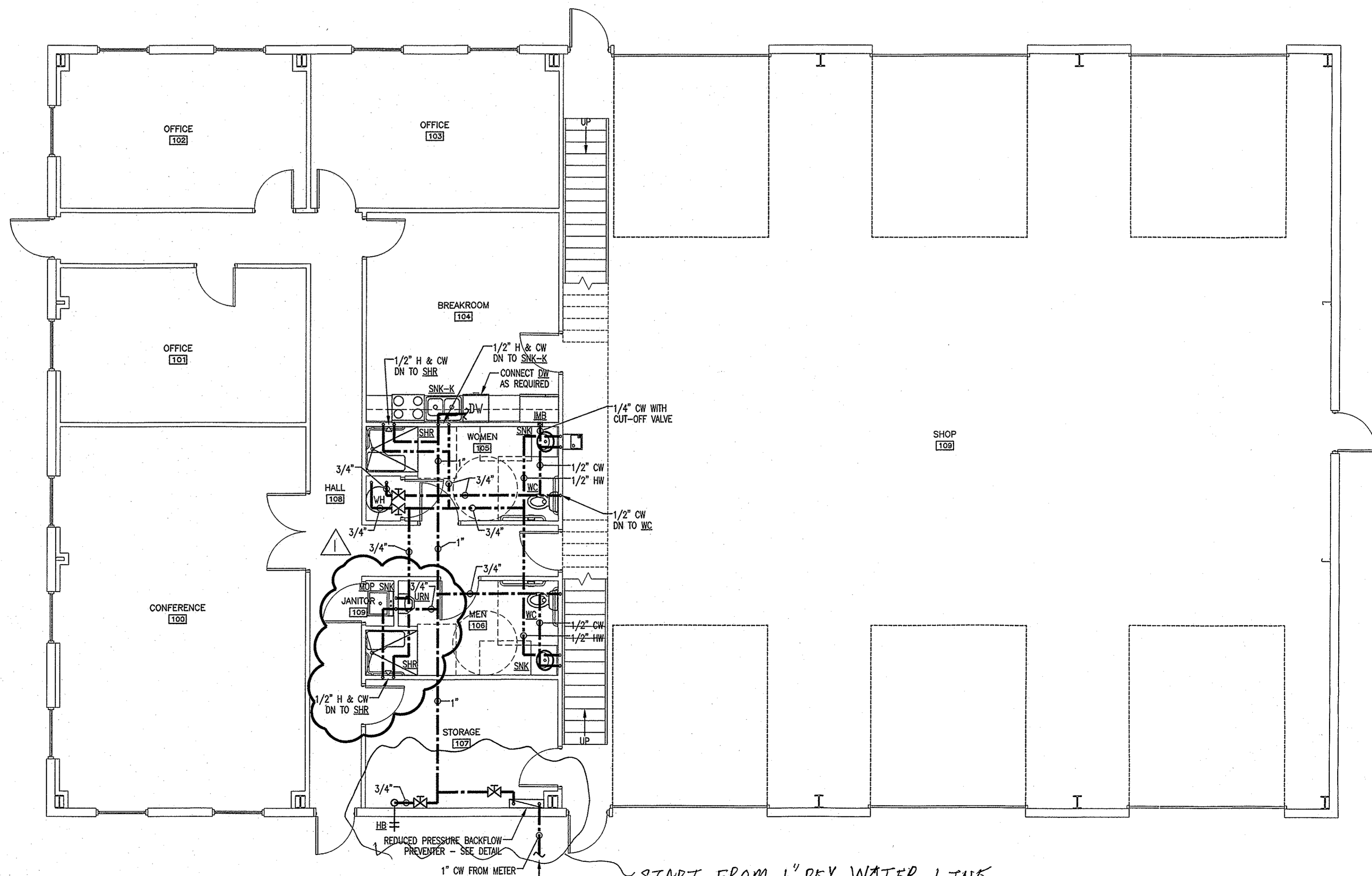
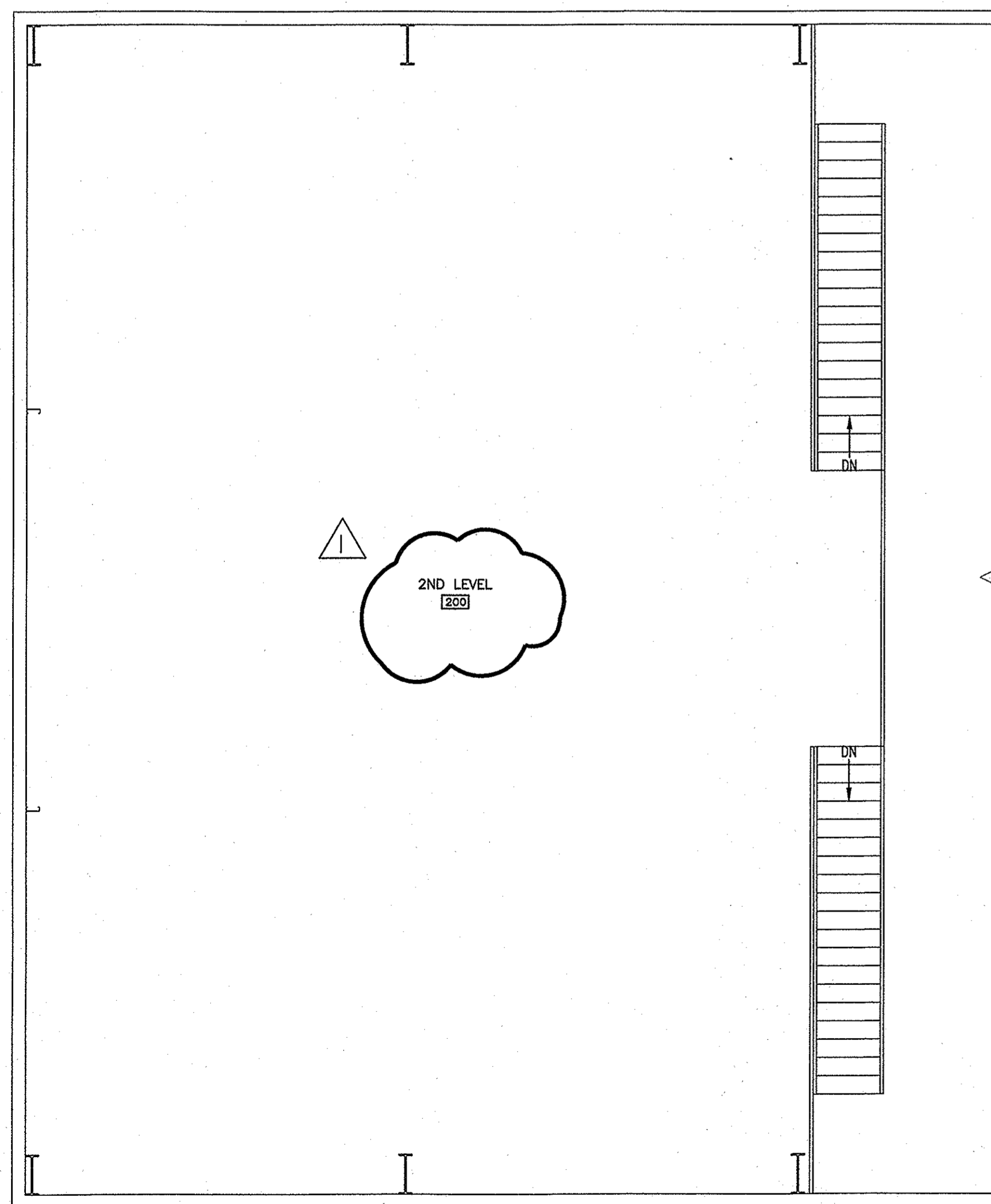
2 2ND LEVEL FLOOR PLAN - WASTE & VENT
 P100 SCALE: 3/16" = 1'-0"



1 MAIN LEVEL FLOOR PLAN - WASTE & VENT
 P100 SCALE: 3/16" = 1'-0"

CONNECT WASTE TO EXISTING STUBBED LINE

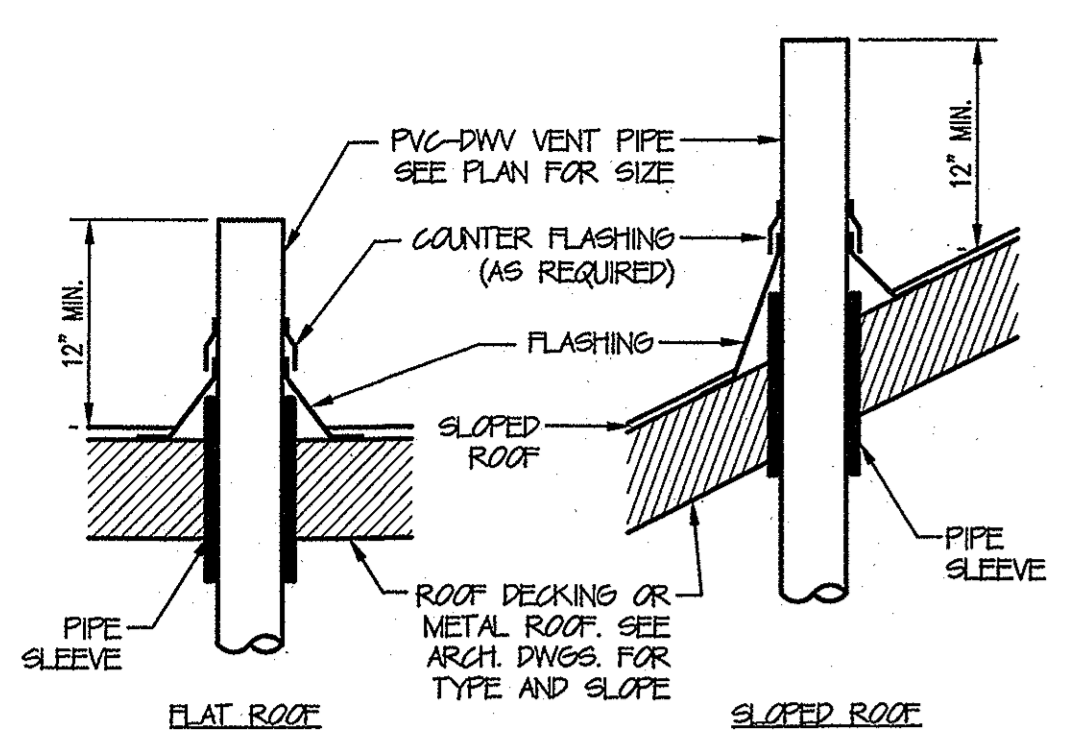
CONNECT PIPING TO EXISTING 1" PEX WATER LINE



2 2ND LEVEL FLOOR PLAN - WATER PIPING
 P100 SCALE: 3/16" = 1'-0"

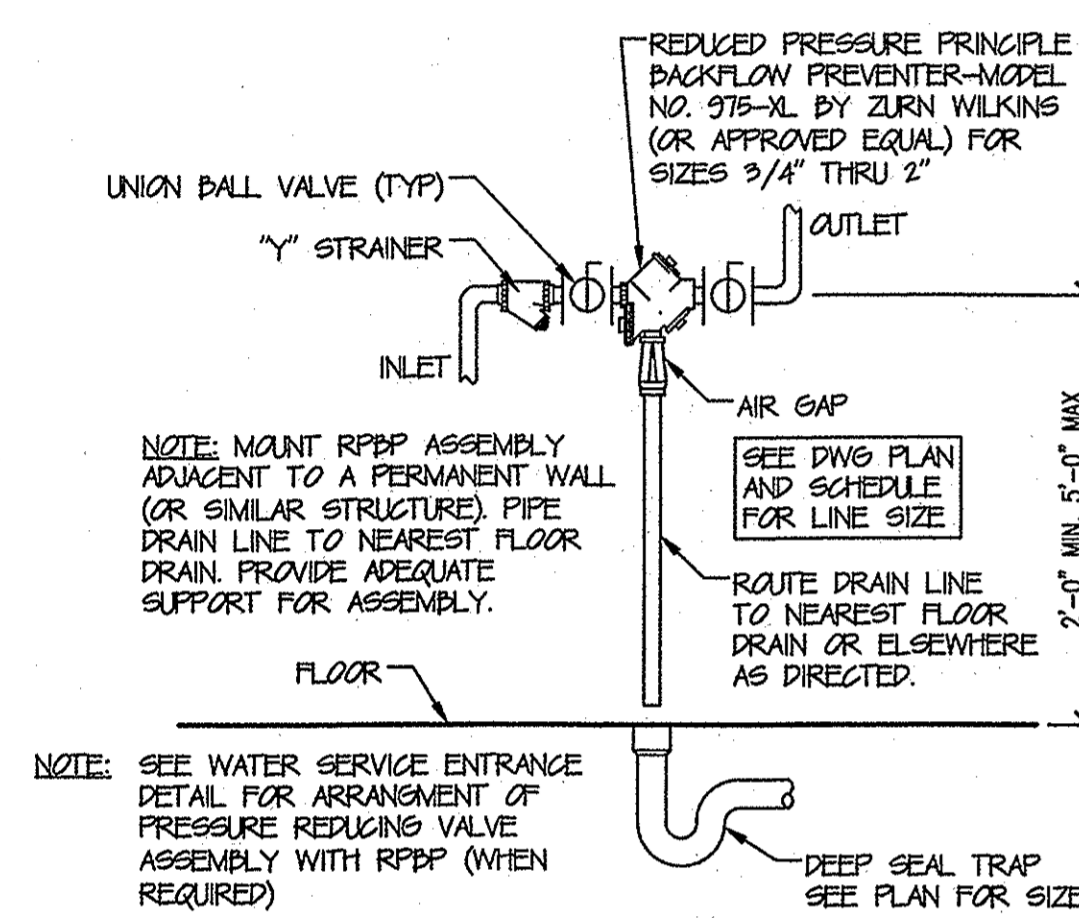
1 MAIN LEVEL FLOOR PLAN - WATER PIPING
 P101 SCALE: 3/16" = 1'-0"

START FROM 1" PEX WATER LINE STUBBED INTO BUILDING

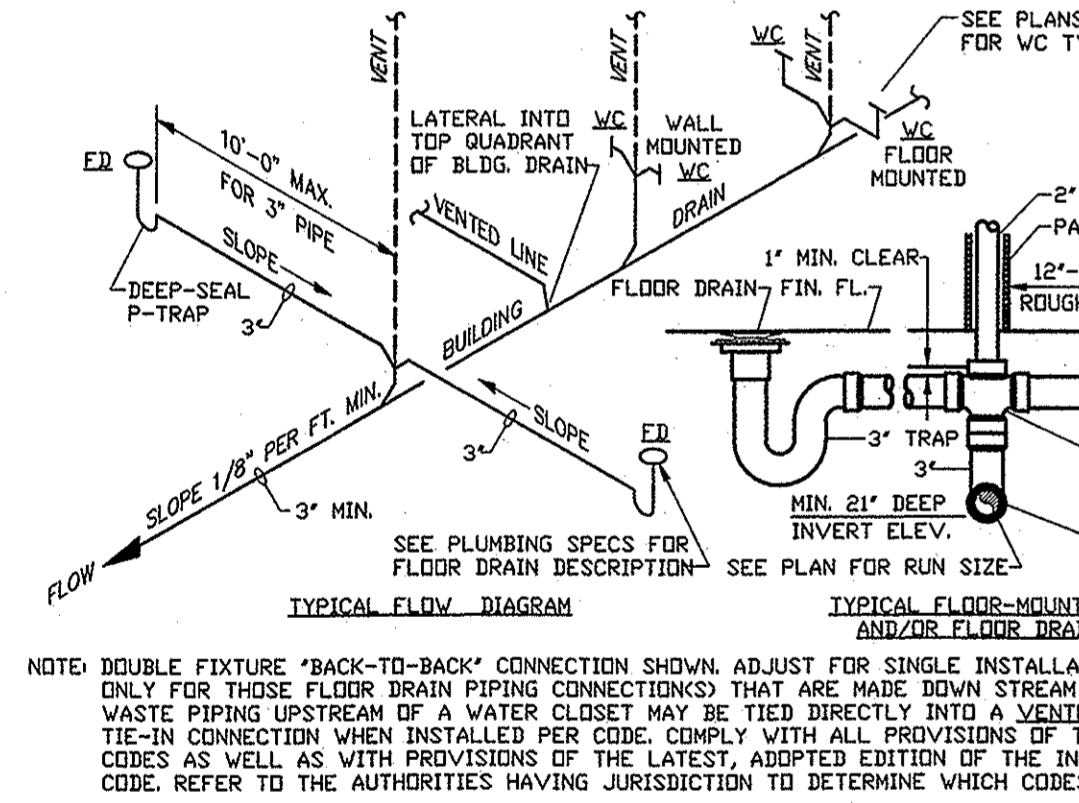


- FLASHING MATERIAL AND THICKNESS TO BE AS RECOMMENDED BY MANUFACTURER TO SUIT ROOF TYPE AND FLASHING APPLICATION.
- ALL ROOF PENETRATIONS SHALL BE FLASHED AND SEALED WATER TIGHT.
- PAINT VENTS EXTENDING ABOVE ROOF WITH AN EPOXY BASED PAINT, COLOR TO MATCH ROOF.
- USE EITHER FLAT ROOF OR SLOPED ROOF AS APPLICABLE.
- INSULATE VENTS USING 1" THICK RIMATEX INSULATION (OR EQUAL) EXTENDING FOR FIRST SIX (6) FEET DOWN FROM ROOF DECKING.

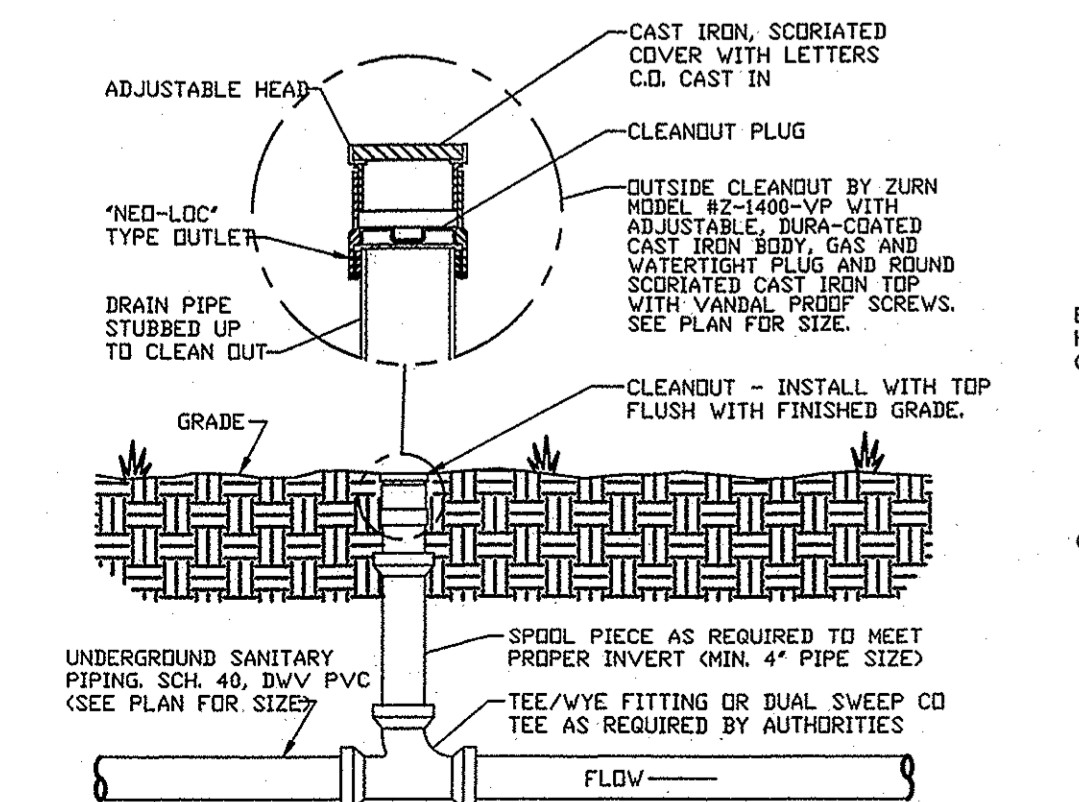
10 TYP. DETAIL - PLUMBING VENT ROOF PENETRATION
SCALE: 1" = 1'-0"



9 REDUCED PRESSURE BACKFLOW PREVENTER-SINGLE ASSEMBLY
SCALE: NOT TO SCALE

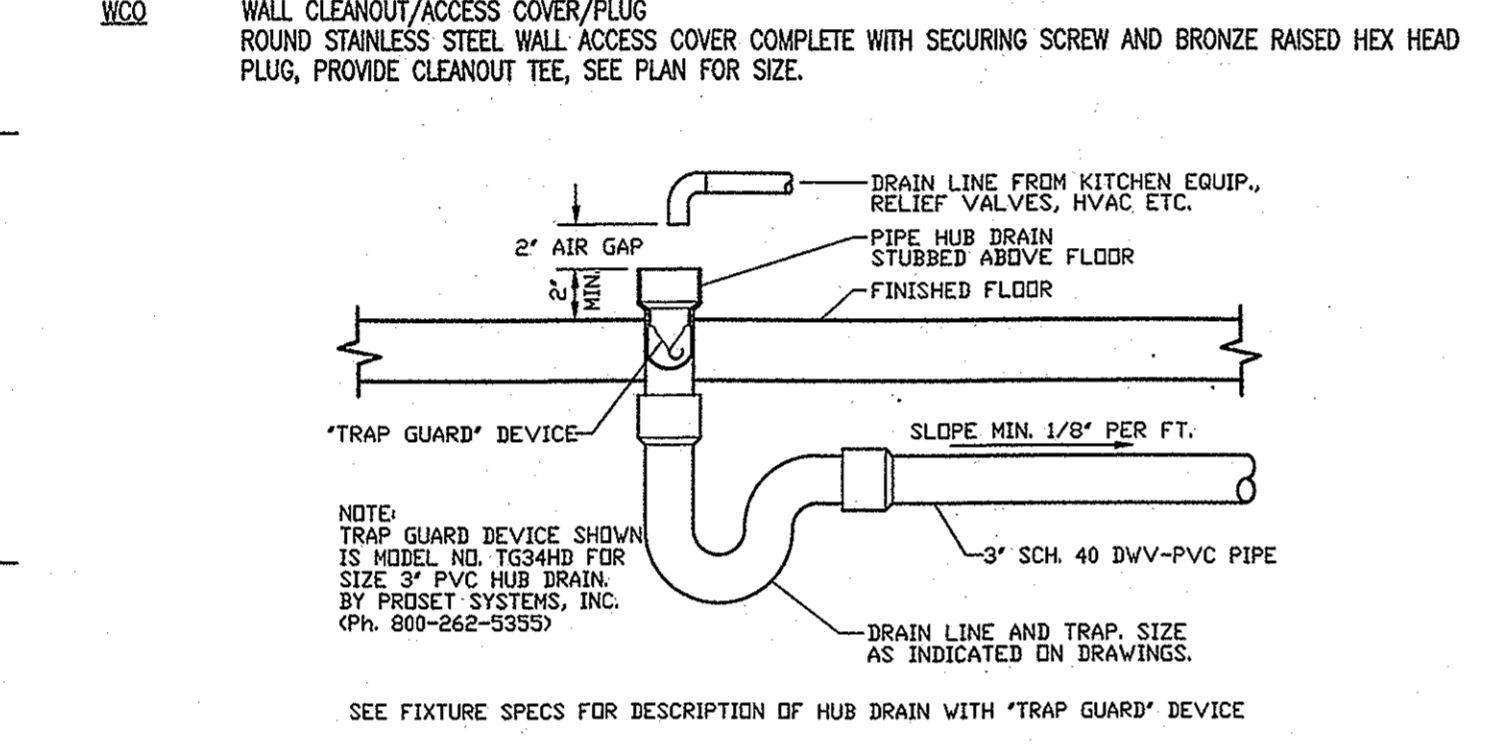


8 (TYP) CONNECTION OF FIXTURE DRAINS INTO BUILDING DRAIN SYSTEM
SCALE: NOT TO SCALE

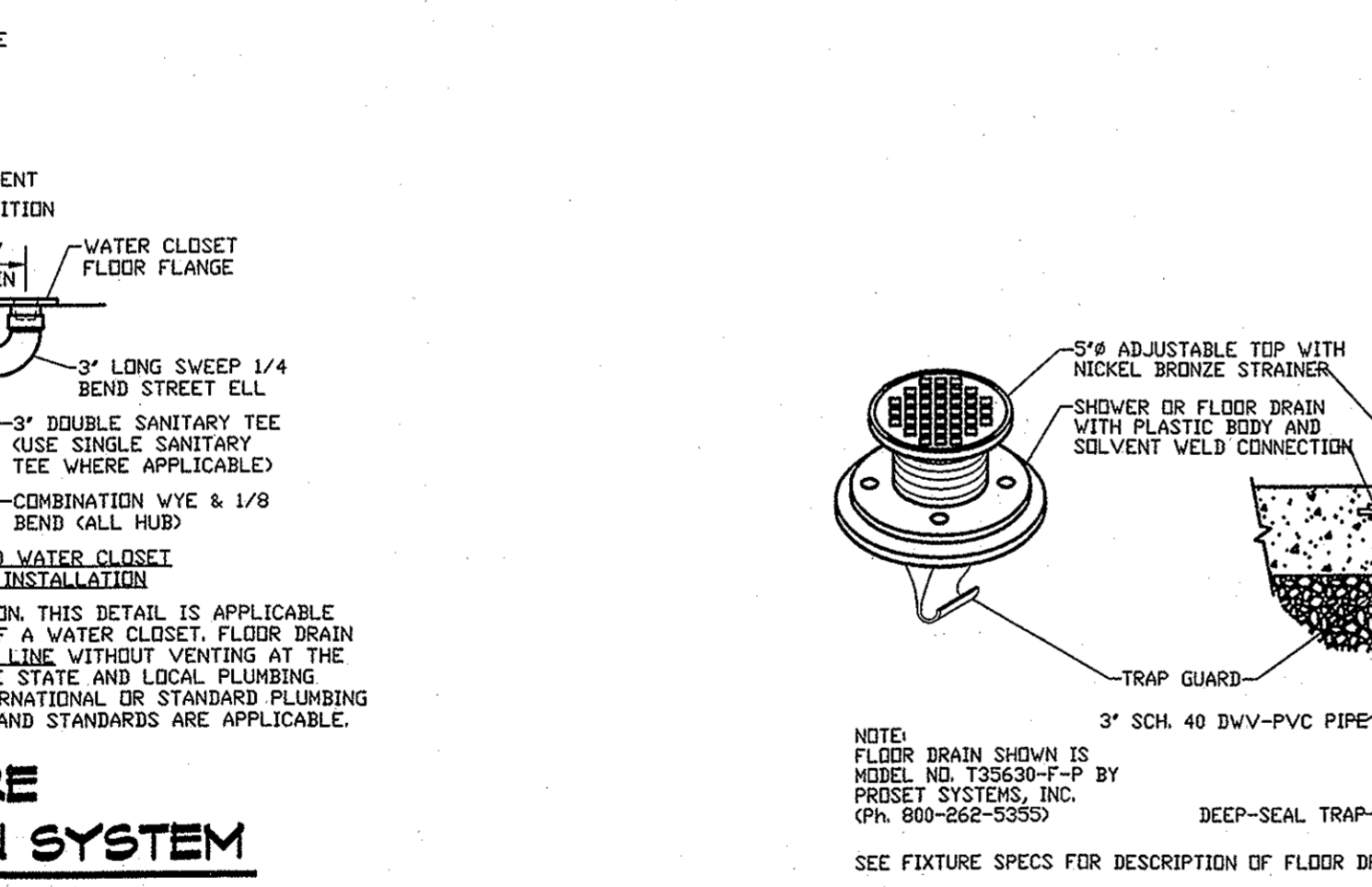


5 OUTSIDE CLEANOUT DETAIL
SCALE: NOT TO SCALE

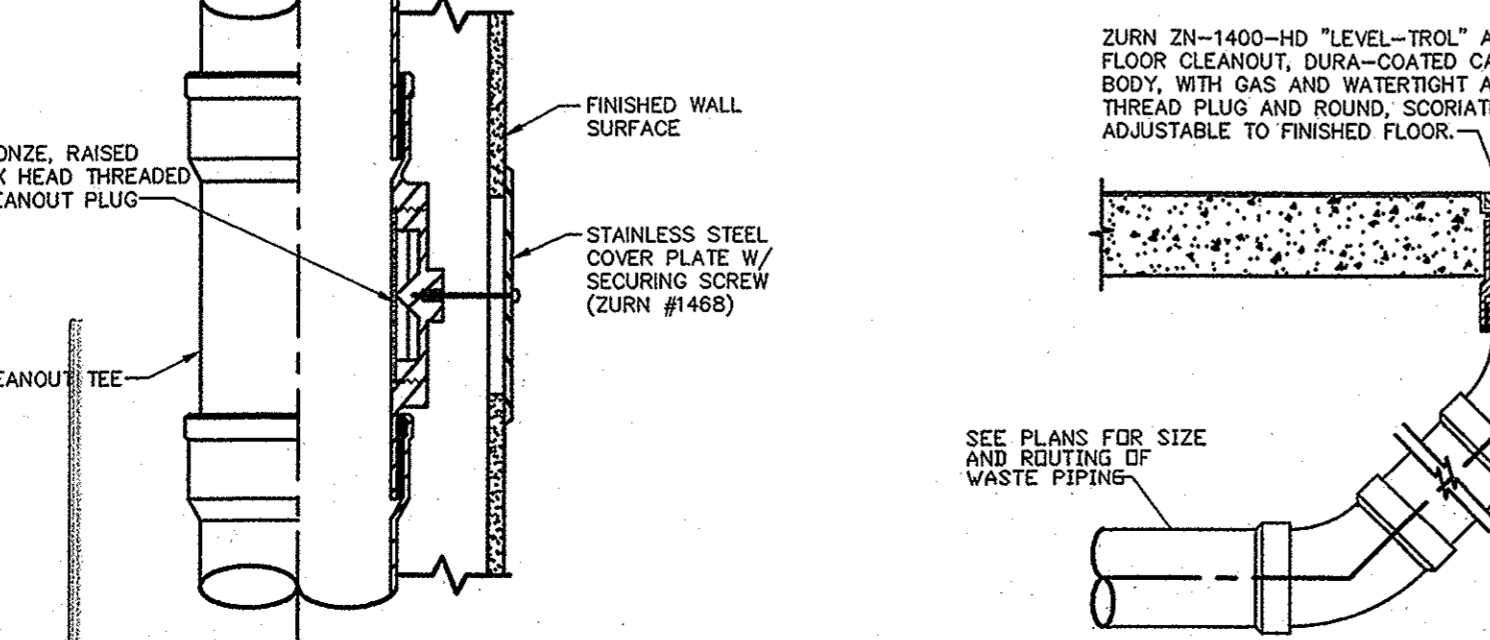
- PLUMBING FIXTURE SPECIFICATIONS:**
- WC WATER CLOSET - KOHLER #K-3755 & KOHLER #4774 SEAT-WHITE
 - URIN URINAL - KOHLER #K-4989-T-O-WHITE & KOHLER #K-10675-SV-CP
 - SNK LAVATORY - SINK #520-DST FAUCET & KOHLER #K-2214-O-WHITE UNDERMOUNT
 - SNK-K KITCHEN SINK ELKAY #LRA02521
 - SHR SHOWER MINCEY #2250
 - WH WATER HEATER (1) STATE #ENG-80-DOLBS
 - FD-T FLOOR TRENCH DRAIN ZURN #Z-886-GG
 - FD FLOOR DRAIN ZURN #Z-4158
 - SGP SEWER GRINDER PUMP - E/DUE #DH152
 - IMR ICE MAKER BOX SHARKBITE #25032
 - HBR NON FREEZE HOSE BIB WOODFORD #B65
 - HD HUB DRAIN/TRAP GUARD* PROSET #TG23HD
 - WCO WALL CLEANOUT/ACCESS COVER/PLUG



7 HUB DRAIN WITH "TRAP GUARD" DETAIL
SCALE: NOT TO SCALE

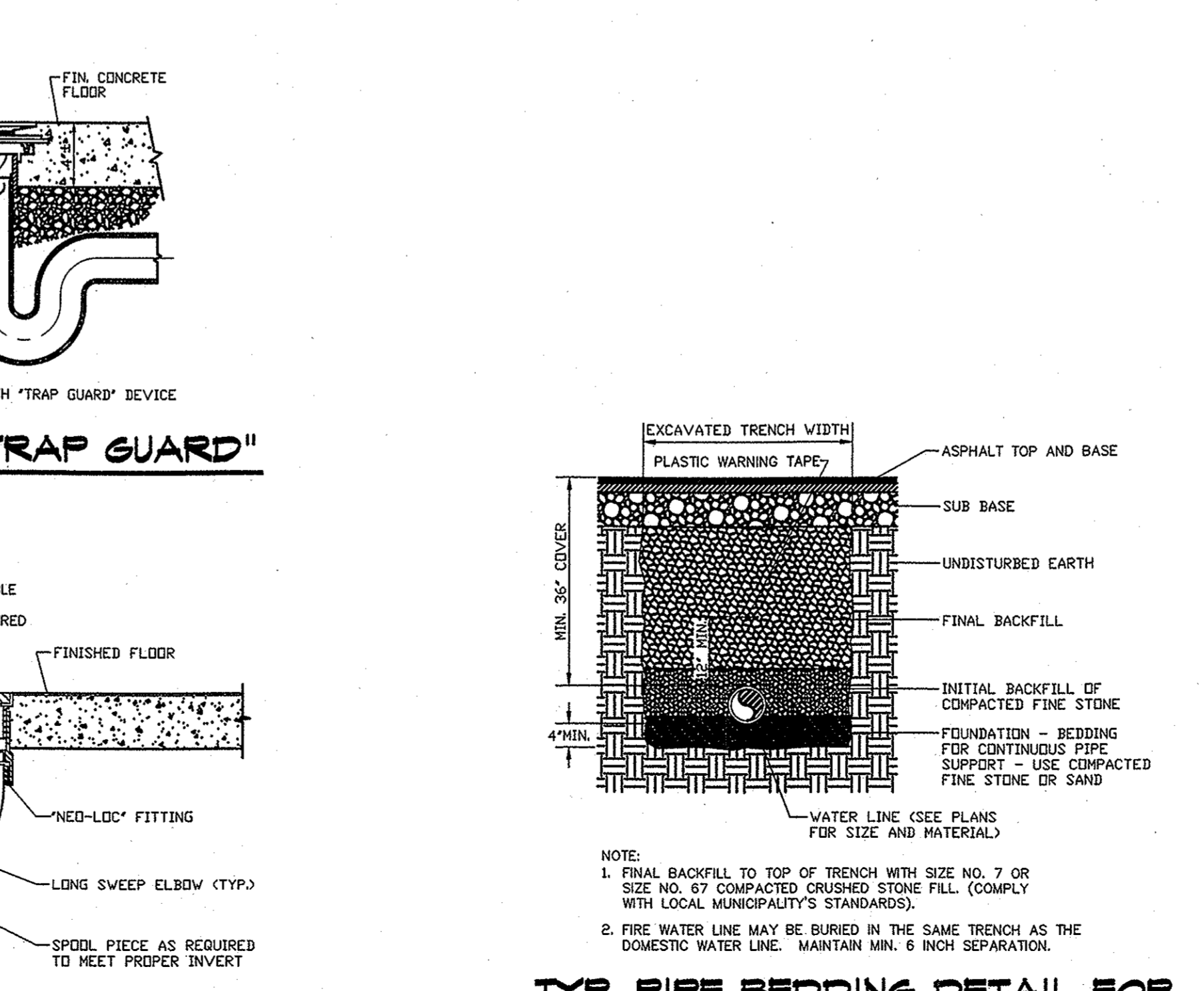


6 FLOOR DRAIN WITH "TRAP GUARD"
SCALE: NOT TO SCALE



4 WALL CLEANOUT DETAIL
SCALE: NOT TO SCALE

- PLUMBING NOTES:**
- SANITARY WASTE AND VENT PIPING BOTH ABOVE AND BELOW GRADE SHALL BE SCHED. 40 PVC-DWV PLASTIC PIPE AND FITTINGS WITH SOLVENT WELD JOINTS. ALL SUCH PIPING AND PIPING COMPONENTS SHALL BE LISTED AS CONFORMING WITH ANSI/NSF STANDARD 14 AND ASTM D-2685.
 - DOMESTIC HOT AND COLD WATER PIPING ROUTED ABOVE GRADE SHALL BE TYPE "L" HARD DRAWN COPPER. JOINTS SHALL BE SWEAT TYPE USING 95-5 (TIN-ANTIMONY) SOLDER HAVING A MAXIMUM LEAD CONTENT OF 0.2 OF 1%. SPECIAL NOTE: AN ALTERNATIVE MATERIAL/METHOD FOR DOMESTIC WATER DISTRIBUTION MAY BE ACCEPTABLE BUT MUST BE APPROVED BY THE ENGINEER. SAID METHOD MUST MEET ASTM, CSA AND NSF STANDARDS AND COMPLY WITH REQUIREMENTS OF THE IPC AND LOCAL AUTHORITIES HAVING JURISDICTION. THE MATERIAL/METHOD SUBMITTED MUST BE AN INDUSTRY APPROVED, RECOGNIZED AND ACCEPTED MEANS FOR CONVEYING POTABLE WATER.
 - DOMESTIC HOT WATER AND COLD WATER PIPING ROUTED BELOW GRADE SHALL BE TYPE "K" ANNEALED COPPER TUBING WITH NO JOINTS BELOW FLOOR SLAB. COPPER TUBING ROUTED IN CORROSIVE SOILS AND/OR CONCRETE SHALL BE PROTECTED BY ENCLCING IN A PLASTIC SHEATH OR SIMILAR COVERING. WATER PIPING ROUTED BELOW GRADE AND EXTERIOR TO BUILDING SHALL BE CLASS 250 PVC PLASTIC PIPE WITH SLIP JOINT, GASKETED FITTINGS. TRANSITION FROM PVC TO DOMESTIC WATER TO COPPER AT 5 FEET OUTSIDE OF BUILDING. (SEE SPECIAL NOTE IN PLUMBING NOTE 2).
 - CONCEALED DOMESTIC WATER PIPING SHALL BE INSTALLED IN FLOOR SLAB AND SPACES BETWEEN WALL STUDS AND GENERALLY ON THE INSIDE OF THE INSULATED BUILDING ENVELOPE UNLESS NOTED OTHERWISE.
 - ALL DOMESTIC WATER PIPING SHALL BE INSULATED, UNLESS OTHERWISE DIRECTED, USING CLOSED CELL, ELASTOMERIC, TUBULAR PIPE INSULATION AND SIZED ACCORDING TO PIPE SIZE. PIPE INSULATION MAY BE EXCLUDED IN INTERIOR WALL CAVITIES AND AT FIXTURE CONNECTIONS (COMPLY WITH PROVISIONS OF ADA WHERE APPLICABLE). INSTALL INSULATION WITH AN OUTER PROTECTIVE COVERING WHERE THE INSULATION MAY BE SUBJECTED TO ACCIDENTAL DAMAGE OR ABUSE. TAPE OR CEMENT ALL JOINTS AND SPLICES IN PIPE INSULATION. ALL ELBOWS AND BENDS SHALL BE INSULATED. VALVES IN INSULATED LINES SHALL BE WRAPPED WITH BAIT TYPE INSULATION AS REQUIRED TO PREVENT FREEZING.
 - ALL EXPOSED PIPING CONNECTING TO HANDICAP FIXTURES SHALL BE INSULATED WHERE THERE IS A POSSIBILITY OF INCIDENTAL BODILY CONTACT. INSULATE USING PRE-MOLDED PVC JACKETS SUCH AS HANDI LAV-GUARD BY TRUEBRO, INC. OR USE PRE-WRAPPED FITTINGS SUCH AS PROWRAP BY MCGUIRE MFG. CO. (OR ENGINEER APPROVED EQL). COMPLY WITH ALL ADA REQUIREMENTS.
 - CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH THE WORK OF OTHER TRADES. IF CONFLICTS WITH OTHER TRADES (OR ANY OTHER ISSUE THAT WOULD PREVENT PROPER INSTALLATION) SHOULD OCCUR, THE PLUMBING CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR AS SOON AS POSSIBLE BEFORE PROCEEDING WITH HIS PORTION OF WORK.
 - INSTALL PLUMBING IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF STATE AND LOCAL CODES AND THE STANDARD OR INTERNATIONAL PLUMBING CODES. VERIFY WITH THE LOCAL BUILDING CODES OFFICIALS AS TO WHICH PARTICULAR CODES APPLY.
 - PLUMBING CONTRACTOR TO PAY FOR ALL PERMITS, FEES, INSPECTIONS AND CONNECTIONS AS MAY BE REQUIRED FOR THIS WORK.
 - ALL VENT PIPING TO PENETRATE ROOF A MINIMUM OF 12" ABOVE ROOF. FLASH AND SEAL TO ROOF WEATHER-TIGHT. PAINT VENT PIPING ABOVE ROOF WITH 2 COATS EPOXY BASED PAINT. COLOR TO MATCH ROOF.
 - INTERC ALL WASTE AND VENT PIPING 2-1/2" AND SMALLER TO SLOPE A MINIMUM OF 1/4" PER FT. PIPING 3" AND LARGER TO SLOPE A MIN. OF 1/8" PER FT. FITCHS WHERE SHOWN REFLECT MINIMUM DEPTHS AND MAY BE ADJUSTED LOWER AS REQUIRED TO SUIT SITE CONDITIONS. COORDINATE WITH FOUNDATION CONSTRUCTION AND SANITARY SEWER TIE-IN INVERTS.
 - THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE RELATIONSHIP BETWEEN FIXTURES AND CONNECTIONS. DO NOT SCALE THE DRAWINGS FOR EXACT LOCATIONS. VERIFY AND INSTALL FIXTURES AT LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS.
 - CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF EXISTING UTILITY SERVICES WHICH MAY INCLUDE: SANITARY SEWER, POTABLE WATER, NATURAL GAS AND STORM DRAINS. CONTRACTOR SHALL FIELD VERIFY INVERTS OF EXISTING SANITARY SEWER PIPING PRIOR TO WORK TO CONFIRM THE TIE-IN INVERT ELEVATION.
 - CONTRACTOR SHALL VISIT JOB SITE BEFORE BIDDING AND BECOME FAMILIAR WITH ANY EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK.
 - SLEEVES SHALL BE INSTALLED WHERE PIPING PENETRATES EXTERIOR WALLS, PARTITIONS, FLOORS OR ROOF. SLEEVES SHALL BE FABRICATED FROM MIN. 16 GA. GALV. STEEL. WHERE PIPING PASSES THROUGH A FOUNDATION WALL SLEEVES SHALL BE FABRICATED FROM STEEL OR CI PIPE AND BE BUILT INTO THE FOUNDATION WALL. SLEEVES SHALL BE MINIMUM 2 PIPE SIZES LARGER THAN THE PIPE PASSING THROUGH THE FOUNDATION WALL. PACK SLEEVES AND/OR INSTALL FLASHING AS REQUIRED TO SEAL EXTERIOR PENETRATIONS WEATHER/WATER TIGHT. SEE APPROPRIATE PLUMBING DETAILS IN THESE DRAWINGS FOR APPLICABLE PENETRATION TYPES. PACK SLEEVES THROUGH FIRE RATED ASSEMBLIES WITH MINERAL WOOL AND SEAL WITH LISTED CAULKING.
 - PIPING PLACED IN TRENCHES SHALL BE SURROUNDED BY AT LEAST 6 INCHES OF LOOSE AGGREGATE FILL ON ALL SIDES. TAMP FILL MATERIAL ON EACH SIDE OF PIPE IN 6 INCH LAYERS. ALL PIPING UNDER SLAB SHALL HAVE A MIN. 1 INCH SEPARATION FROM BOTTOM OF SLAB TO TOP OF PIPE AT HIGH POINT. PROTECT PIPING FROM BEING CRUSHED OR OTHERWISE CONSTRICTED.
 - ALL DOMESTIC HOT WATER AND COLD WATER PIPING SYSTEMS SHALL BE DISINFECTED IN ACCORDANCE WITH THE PLUMBING CODE. DISINFECTION SHALL INCLUDE ALL PIPE, FITTINGS, VALVES, FAUCETS AND FIXTURES THAT MAKE UP A PART OF THE SYSTEM.
 - INSTALL WATER HAMMER ARRESTORS AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH STANDARD INSTALLATION PRACTICES, PROCEDURES AND P.D.I. GUIDELINES. WATER HAMMER ARRESTORS SHALL BE SHOKTRON AS MANUFACTURED BY ZURN, OR ENGINEER APPROVED ALTERNATE.
 - INSTALL MAIN WATER CUTOFF IN DOMESTIC WATER RISER AT BUILDING ENTRY PRIOR TO ANY DEVICES OR BRANCH CONNECTIONS. INSTALL A WYE STRAINER AND PRESSURE REDUCING VALVE IN DOMESTIC WATER PIPING AT BUILDING ENTRY WHERE CITY WATER PRESSURE EXCEEDS 80 PSI. WHEN DOMESTIC WATER PRESSURE IS LOW AND INSUFFICIENT TO OPERATE PLUMBING FIXTURES A PRESSURE BOOSTER PUMP SHALL BE INSTALLED IN THE DOMESTIC WATER SYSTEM AT THE WATER SERVICE ENTRY. THE BOOSTER PUMP SHALL BE SIZED AND SELECTED BY THE ENGINEER. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR A SYSTEM INSTALLATION WHICH INSURES THAT ADEQUATE WATER PRESSURE WILL BE AVAILABLE AT THE MOST REMOTE FIXTURE IN THE SYSTEM PER CODE.
 - REFER TO PLUMBING FIXTURE SPECIFICATIONS ON THIS DRAWING FOR FIXTURE DESIGNATIONS, BRAND AND MODEL NUMBERS. EACH FIXTURE'S PHYSICAL ATTRIBUTES AND PERFORMANCE CHARACTERISTICS SHALL BE FACTORS CONSIDERED WHEN SUBMITTING AN "OR EQUAL" PRODUCT FOR SUBSTITUTION. SUBSTITUTIONS ON FIXTURES AND EQUIPMENT SPECIFIED HEREIN WILL NOT BE ACCEPTED UNLESS THREE
 - (3) SETS OF ENGINEERING SUBMITTALS FOR THE PROPOSED SUBSTITUTION ARE SUBMITTED TO THE ENGINEER OF RECORD AT LEAST 10 DAYS PRIOR TO THE BID DATE. THE ENGINEER WILL REVIEW AND WILL BE REQUIRED TO ACCOMPANY THE SHOP DRAWING SUBMITTALS AFTER THE BID DATE. RETURN THE SUBMITTALS TO THE ARCHITECT STAMPED WITH SUBSTITUTION APPROVED OR SUBSTITUTION DISAPPROVED WITHIN THREE (3) DAYS OF THE BID DATE. RE-SUBMITTALS FOR ANY SUBSTITUTED ITEMS UNLESS OTHERWISE INSTRUCTED, THE CONTRACTOR SHALL SUBMIT SEVEN (7) SETS OF SHOP DRAWINGS ON
 - PLUMBING FIXTURES TO THE PRINCIPAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO AND SUBSEQUENT TO PURCHASE OF THE EQUIPMENT. EQUIPMENT BEING SUBMITTED MUST BE CLEARLY IDENTIFIED AND MUST BE REFERENCED WITH CORRESPONDING I.D. MARKS FROM DRAWING SPECS. PLUMBING SUBMITTALS MUST ALSO INCLUDE RELATED ACCESSORIES AND APPURTENANCES. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES AND SUBSTITUTIONS BETWEEN WORK AS SPECIFIED
 - AND AS INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF PROJECT.



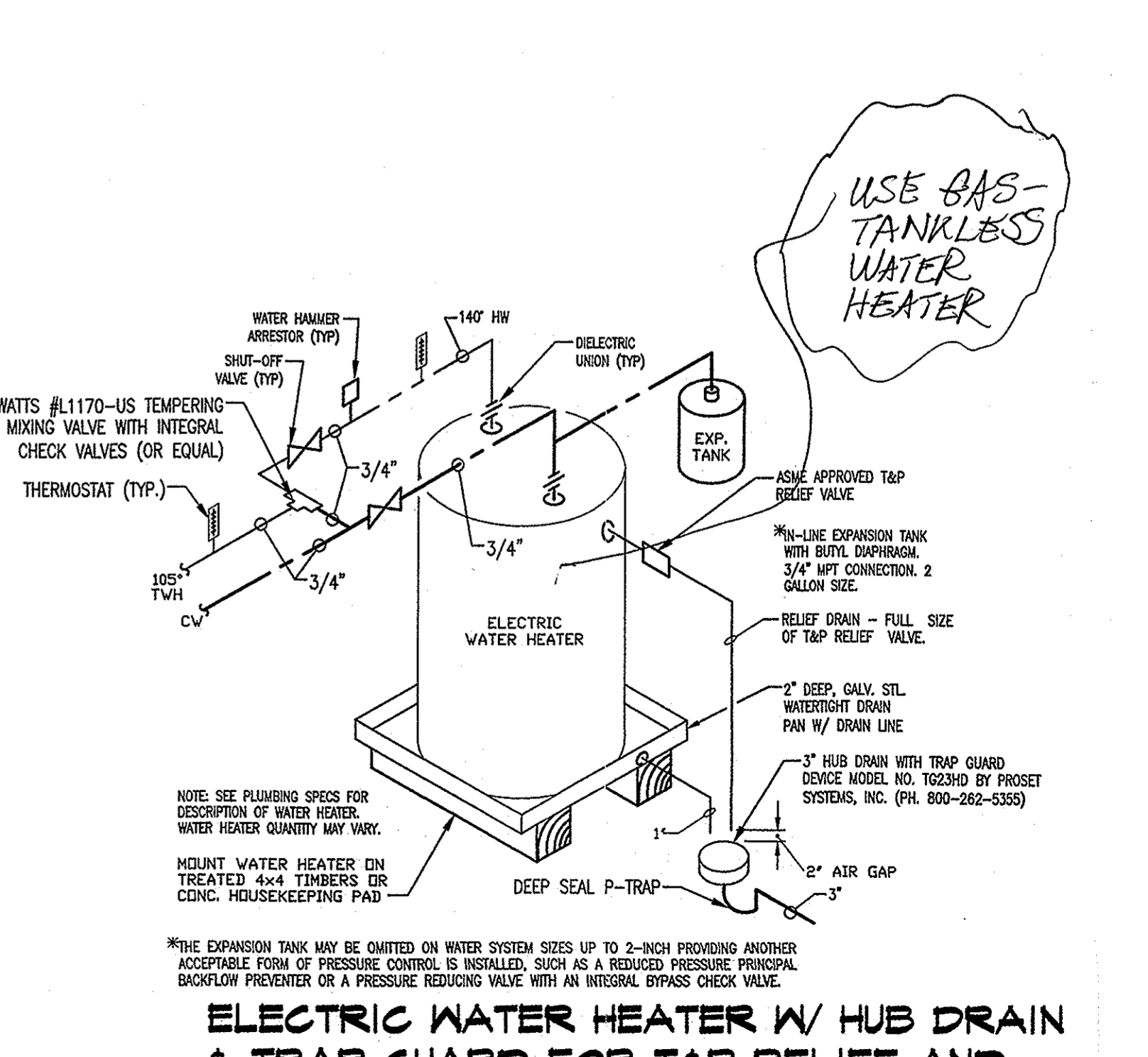
2 TYP. PIPE BEDDING DETAIL FOR WATER LINE UNDER PAVEMENT
SCALE: NOT TO SCALE

- GENERAL PLUMBING NOTES:**
- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING OF PIPING AND LOCATION OF FIXTURES. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND MAKE MINOR OFFSETS AND ADJUSTMENTS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
 - COORDINATE FIXTURE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 - CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND PAY FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES.
 - ALL PIPING SHALL BE RUN IN CONCEALED LOCATIONS EXCEPT WHERE NOTED.
 - PLUMBING FIXTURES SHALL BE FIRST QUALITY WIRELESS CHINA, STAINLESS STEEL, OR PLASTIC AS NOTED ON PLUMBING FIXTURE SCHEDULE. ALL FIXTURES SHALL BE RIGIDLY CONNECTED TO THE BUILDING AND SHALL BE CLEANED AND FUNCTIONAL.
 - REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED GRADES.
 - DOMESTIC WATER LINES 1/2" THROUGH 3" SHALL BE TYPE "L" COPPER WITH SOLDER JOINTS, SOLDER SHALL NOT CONTAIN LEAD. WATER SERVICE LINE OUTSIDE THE BUILDING MAY BE COPPER. ALTERNATIVE MATERIAL SUCH AS "PEX" IS APPROVED & MUST BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 - CONTRACTOR SHALL PROVIDE PRESSURE REDUCING VALVE IF PRESSURE OF MAIN EXCEEDS 85 PSI AND REDUCED PRESSURE BACKFLOW PREVENTION VALVE INSIDE BUILDING WHERE SERVICE ENTERS.
 - EXPOSED PIPING BELOW FIXTURES SHALL BE CHROME PLATED. PIPING AT FIXTURES IN HANDICAPPED ACCESSIBLE AREAS SHALL BE INSULATED TO PROTECT AGAINST BURNS. DRAIN WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC OR AS NOTED ON THE DRAWINGS.
 - ALL BURIED PIPING SHALL BE BEDDED AND COVERED IN SAND, GRAVEL, OR CRUSHED STONE.
 - POTABLE WATER LINES SHALL BE INSULATED WITH 1" FLEXIBLE ELASTOMERIC PLASTIC OR FIBERGLASS PIPE INSULATION.
 - AFTER COMPLETION OF PIPING, TEST POTABLE WATER PIPING TO A PRESSURE OF 125 LBS. PER SQ. INCH AND HOLD FOR 24 HOURS.
 - TEST DRAIN WASTE AND VENT PIPING BY FILLING TO LEVEL OF HIGHEST VENT.
 - AFTER INSTALLATION OF POTABLE WATER PIPING, STERILIZE LINES IN ACCORDANCE WITH CODES AND HEALTH DEPARTMENT REGULATIONS AND FLUSH AND FILL WITH CLEAN WATER.
 - PITCH POTABLE WATER LINES TOWARD DRAINS. INSTALL DRAIN WASTE AND VENT PIPING WITH MINIMUM SLOPES OF 1/4" PER FOOT FOR LINES UP TO 2-1/2" AND 1/8" PER FOOT FOR LINES 3" AND LARGER.
 - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS OF FIRE WALLS AND FLOOR CEILING ASSEMBLIES.
 - INSTALL FIRE STOP MATERIAL IN ACCORD WITH U.L. LISTING AT ALL PENETRATIONS.
 - PIPE WATER HEATER RELIEF VALVE TO FLOOR DRAIN OR DRAIN PER DETAILS.
 - INSTALL WATER HEATERS IN ACCORD WITH MANUFACTURERS INSTRUCTION AND TENNESSEE BOILER CODE REQUIREMENTS.

PLUMBING LEGEND

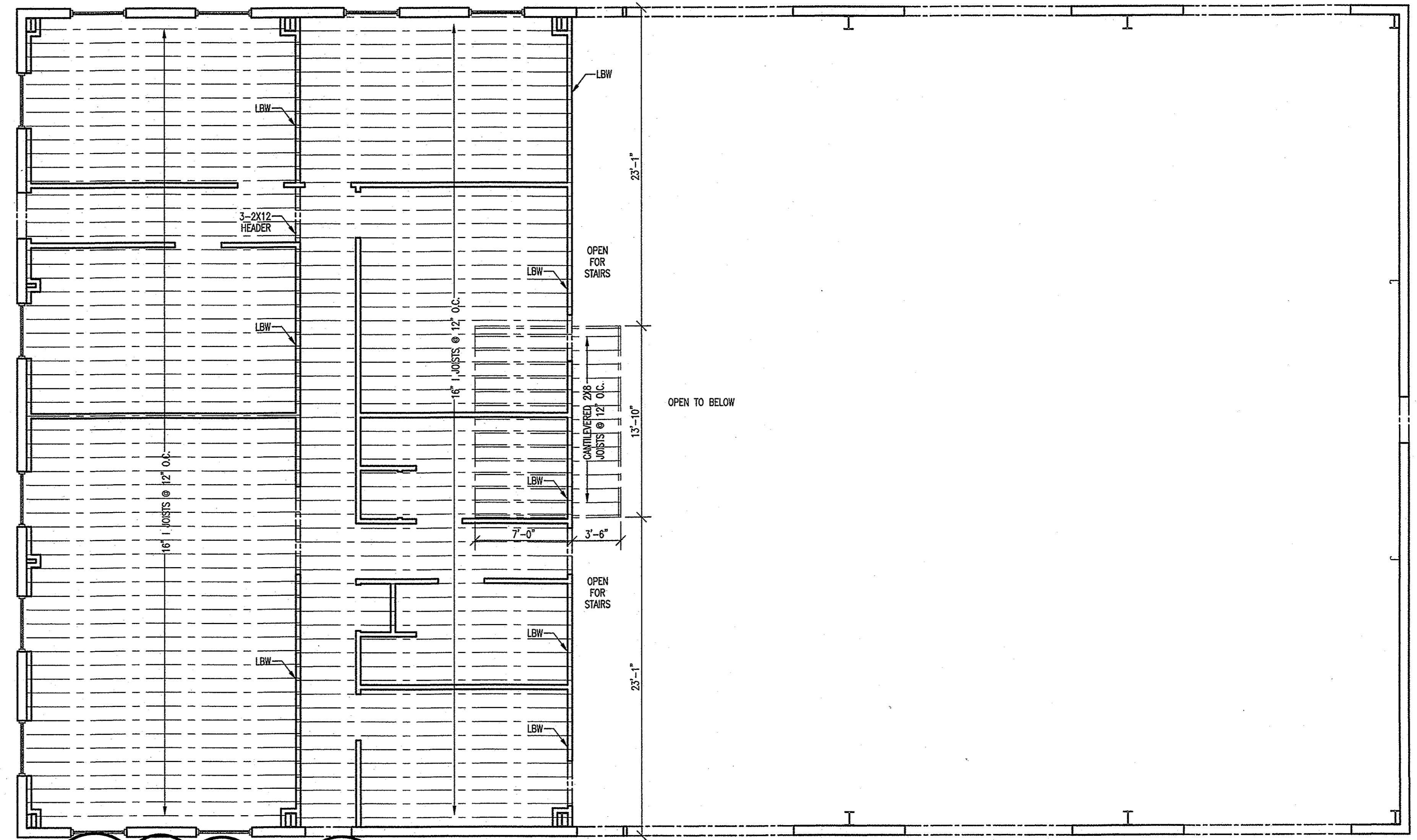
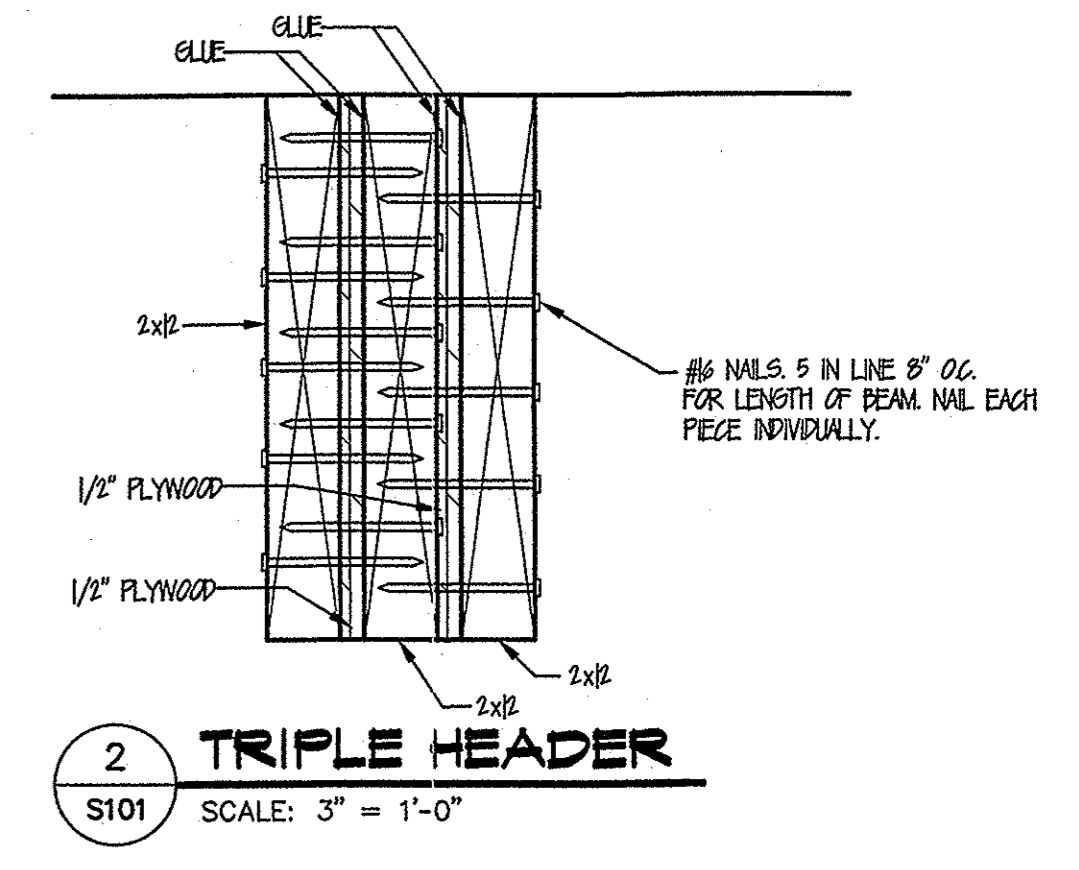
—S—	SANITARY SEWER PIPING (BELOW FLOOR/GRADE)	—○—	BALL VALVE
—SS—	SANITARY SEWER PIPING (OVERHEAD OR ABOVE FLOOR)	—○—	GAS COCK
—SD—	STORM DRAIN PIPING (BELOW FLOOR/GRADE)	—○—	BALANCING VALVE
—SD—	STORM DRAIN PIPING (OVERHEAD OR ABOVE FLOOR)	—○—	INLINE PIPE UP
—C—	COLD WATER	—○—	INLINE PIPE DOWN
—H—	HOT WATER	—○—	PIPE UP TEE
—120°—	120° HOT WATER LINE	—○—	PIPE DOWN
—G—	GAS LINE	—○—	PIPE DOWN TEE
—F—	FIRE LINE	—○—	FLOOR DRAIN
—V—	VENT LINE	—○—	CLEAN OUT IN FLOOR/GRADE
—VTR—	VENT THRU ROOF	—○—	HYDRAULIC SHOCK ABSORBER WATER HAMMER ARRESTOR
—SS—	SANITARY SEWER	—○—	BALL VALVE OR GATE
—DS—	DOWNSPOUT (VERIFY LOCATION)	—○—	CONNECTION TO EXISTING UTILITY

NOTES: ALL DRAIN PIPING, WHERE EXPOSED, FROM FLOOR TO 10 FT AFF SHALL BE DUCTILE IRON.



1 ELECTRIC WATER HEATER W/ HUB DRAIN & TRAP GUARD FOR T&P RELIEF AND TEMPERING MIXING VALVE - DETAIL
SCALE: NOT TO SCALE

USE GAS-TANKLESS WATER HEATER



1 2ND LEVEL FRAMING PLAN

S101 SCALE: 3/16" = 1'-0"