

24"x36" SCALE:	AS NOTED
PLOT DATE:	2023-03-10
CAD FILE:	22-054_A0.dwg
JOB NUMBER:	22-054
CHECKED:	
DRAWN:	CD
STATUS:	CD SET

A0.02

DEVELOPMENT SERVICES DEPARTMENT

-2-



SITE PLAN

SCALE: 1/32" = 1'-0"



PROJECT TEAM

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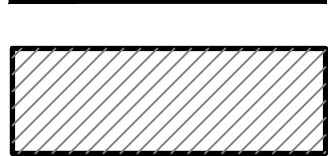
PM CONTACT: KHOSHAL RAZ
khoshalraz@gmail.com

LEGEND

(E) AREA OF BUILDING IN SCOPE



(E) BUILDING(S) NOT PART OF SCOPE



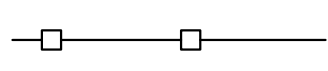
PROPERTY LINE



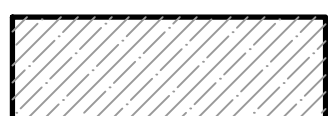
EXISTING EGRESS PATH



EXISTING FENCING SURROUNDING PROPERTY

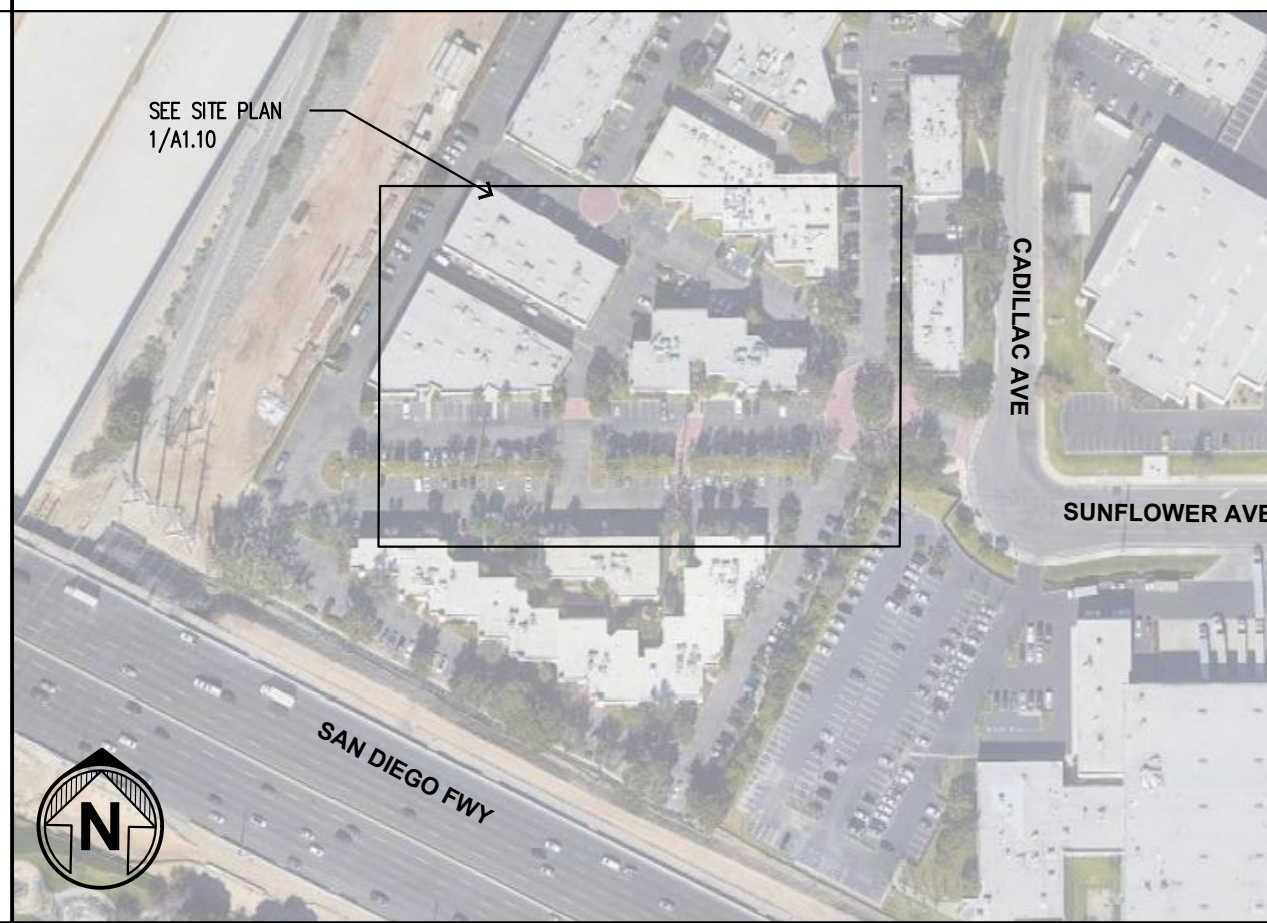


UNLOADING/LOADING PARKING FOR DELIVERY AND DISTRIBUTION VEHICLES



-3-

VICINITY MAP



KEY NOTES

- EXISTING BUILDING TO REMAIN.
- AREA OF WORK. SEE SHEET A2.10 FOR FLOOR PLAN.
- MAIN ENTRY TO PROJECT.
- DIRECT ROUTE, ACCESSIBLE PATH OF TRAVEL. THERE SHALL BE NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY.
- EXISTING TRUNCATED DOMES TO REMAIN.
- EXISTING PUBLIC RIGHT OF WAY.
- EXISTING ADA COMPLIANT PARKING TO REMAIN.
- EXISTING PROPERTY LINE.
- EXISTING TRASH ENCLOSURE TO REMAIN.
- UNLOADING/LOADING PARKING FOR DELIVERY AND DISTRIBUTION VEHICLES. DISTANCE OF THE PATH OF TRAVEL FROM THE VEHICLE TO THE FACILITY IS 101'-4".
- EXISTING FENCING- CHAINLINK, 5 FEET TALL TO REMAIN.

GENERAL SITE PLAN NOTE: NO EXTERIOR ALTERATIONS ARE PROPOSED TO THE EXISTING SITE. ALL ACCESSIBLE PATHS OF TRAVEL AND ACCESSIBLE PARKING HAVE BEEN EVALUATED AND APPEAR TO BE WITHIN COMPLIANCE.



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NON-STOREFRONT RETAIL - DELIVERY

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COSTA MESA, CA 92626

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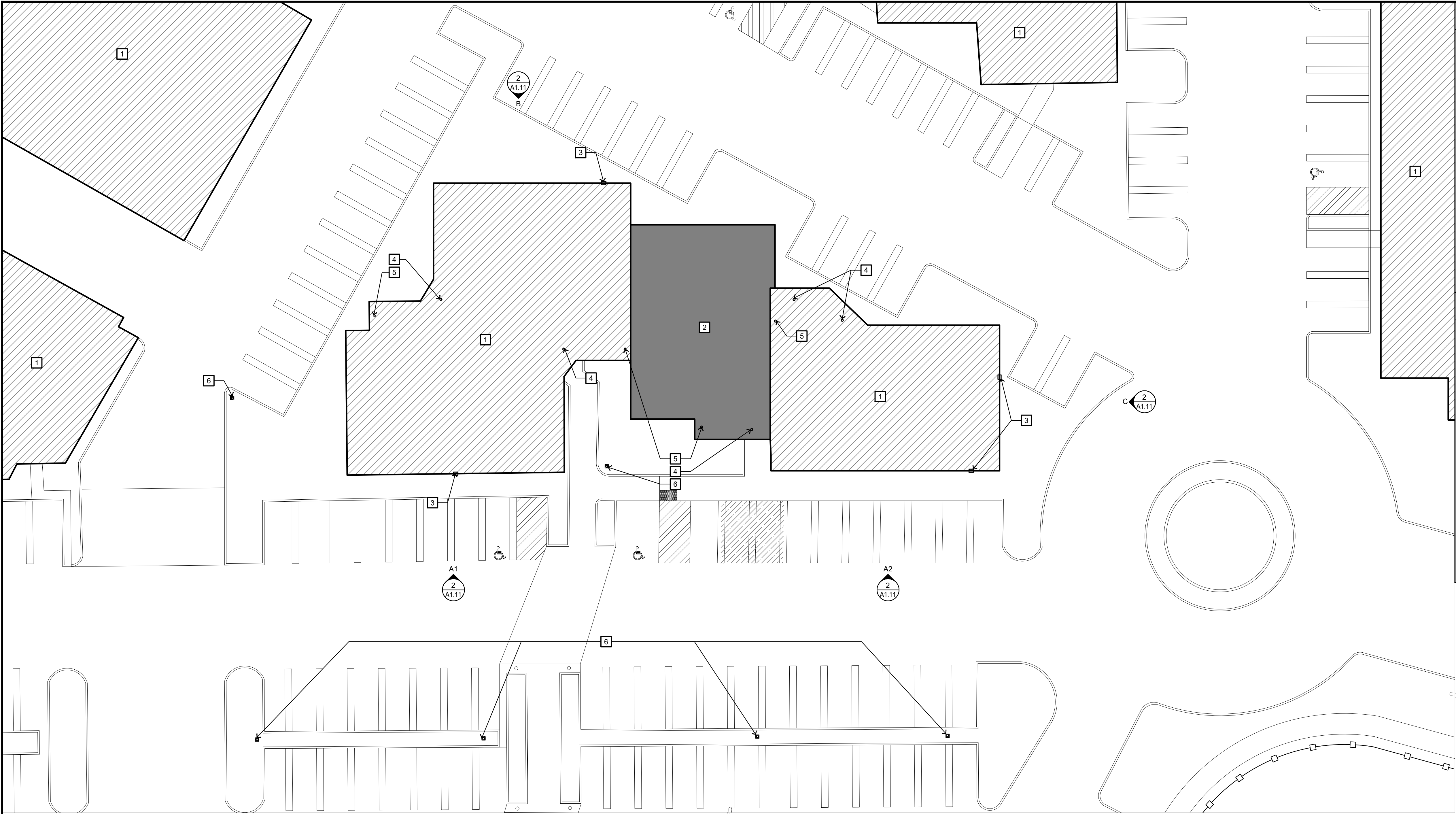
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SITE PLAN

A1.10



KEY NOTES

- EXISTING BUILDING TO REMAIN.
- AREA OF WORK. SEE SHEET A2.10 FOR FLOOR PLAN.
- EXISTING FLOOD LIGHTS AT ROOF. SEE DETAIL 2/A1.10 FOR REFERENCE.
- EXISTING RECESSED DOWNLIGHTING AT FIRST FLOOR AT 107.2' AFF (FRONT OF BUILDING) & 120.4' AFF (BACK OF BUILDING).
- EXISTING RECESSED DOWNLIGHTING ABOVE STAIR LANDING AT 259.3' FROM FIRST FLOOR.
- EXISTING EXTERIOR LIGHT POST.

LEGEND

(E) AREA OF BUILDING IN SCOPE	
(E) BUILDING(S) NOT PART OF SCOPE	
(E) EXTERIOR LIGHT POST	
(E) EXTERIOR FLOOD LIGHTS	
(E) RECESSED LIGHTS	



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EXTERIOR LIGHTING PLAN

A1.11

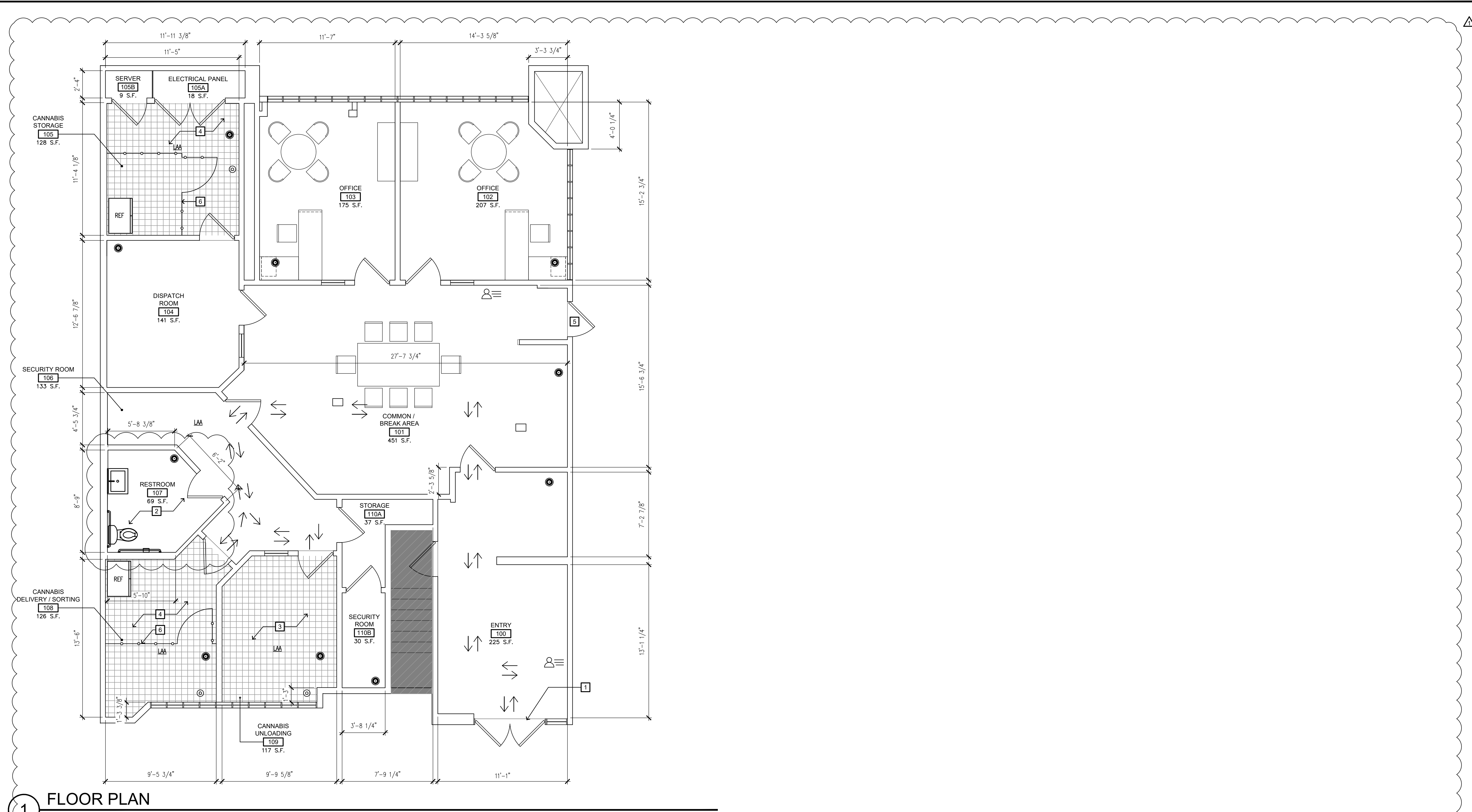
1 EXTERIOR LIGHTING PLAN

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



2 EXISTING FLOOD LIGHTS

N.T.S.



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

LEGEND

NOT IN CONTRACT

CANNABIS HANDLING AREA

DS

DROP SAFE

LAA

LIMITED ACCESS AREA

→

PATH

ODOR SCRUBBER

CONTACTS

SMOKE DETECTOR

KEY NOTES

1

MAIN ENTRANCE DOOR EXCLUSIVE CONTROL.

2

NEW ADA PLUMBING FIXTURES AND TOILET ACCESSORIES TO BE ADDED.

3

LOADING & UNLOADING SHIPMENTS UNLOADING FOR DELIVERIES.

4

SECURE PRODUCT STORAGE FOR DELIVERY.

5

EXISTING SECURED EXIT ONLY.

6

NEW PRODUCT CAGES.

NOTE: CLOUDED AREA HAS BEEN REVISED AND DIFFER FROM PROPOSED FLOOR PLAN PROVIDED DURING THE CBP PROCESS. CHANGES INCLUDE ADDING AN ACCESSIBLE RESTROOM FOR OCM EMPLOYEES. SEE MEP DRAWINGS FOR MORE DETAILS.

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FLOOR PLAN
A2.10

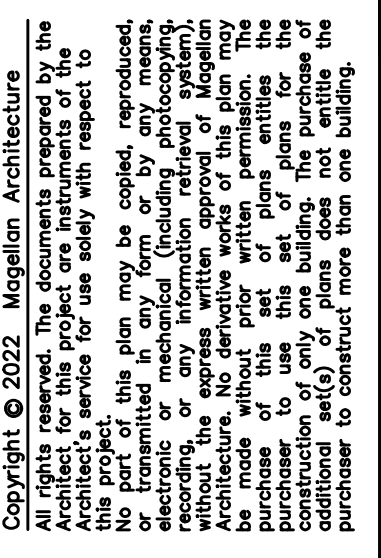
-5-

(FILTRATION FAN IS AN OWNER/TENANT PROVIDED ITEM)



1. ALL TYPES OF DUCTWORK SHALL BE CONSTRUCTED, ERECTED & TESTED IN ACCORDANCE WITH STRICT LOCAL REGULATIONS & PROCEDURES DETAILED IN THE A.S.H.R.A.E. HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY S.M.A.C.N.A. ALL DUCTWORK SHALL BE EITHER RECTANGULAR DUCTS OF GALVANIZED STEEL OR PREFABRICATED SPIRAL LOCK-SEAM DUCTS & FITTINGS OF GALVANIZED STEEL.
2. DUCT DIMENSIONS ARE NET CLEAR (AIRWAY SIZE), WHERE SOUND INSULATION IS INDICATED ON DRAWINGS, THAT IS, AFTER INSULATION HAS BEEN INSTALLED.
3. ALL DRAWINGS SHALL BE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW & OVERALL COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING AND ELECTRICAL, ANY AND ALL DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO THE START OF CONSTRUCTION SO AS TO RECTIFY THE ISSUE. ANY AND ALL WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS AND/OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND NO EXPENSE INCURRED BY THE OWNER.
4. DO NOT SCALE DRAWINGS – ALL DIMENSIONS & EXISTING JOB SITE CONDITIONS SHALL BE CONFIRMED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.
5. ALL WORK SHALL COMPLY WITH 2019 CALIFORNIA MECHANICAL CODE, CITY CODES, STATE OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS AND ANY AND ALL OTHER APPLICABLE CODES.
6. ALL SUPPLY & RETURN DUCTWORK SHALL BE INSULATED WITH OWENS/CORNING TYPE 75 FIBERGLASS INSULATION WITH VAPOR BARRIER, & WITH THICKNESS AND MIN. 'R' VALUE AS SPECIFIED ON THE PLANS OR SPECIFICATIONS.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS W/ELECTRICAL, STRUCTURAL, PLUMBING AND ALL OTHER TRADES.
8. ALL CEILING MOUNTED SUPPLY AIR DIFFUSERS ARE 4-WAY THROW UNLESS SHOWN OTHERWISE.
9. MINIMUM OUTDOOR AIR REQUIREMENTS SHALL COMPLY WITH CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 120.1(b).
10. ALL PIPING AND DUCTWORK INSULATION SHALL COMPLY WITH CA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 120.4 AND SECTIONS 601,602,603,604, AND 605 OF THE C.M.C. STANDARDS.
11. ALL H.V.A.C. CONTROL SYSTEMS SHALL COMPLY WITH CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 120.2 AND 140.4.
12. ALL H.V.A.C. EQUIPMENT AND APPLIANCES SHALL COMPLY WITH CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 110.1 & 110.2.
13. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION & SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES & GOVERNING REGULATIONS AND SHALL MEET OR EXCEED WITH THE APPROVAL OF THE CITY & STATE FIRE MARSHAL.
14. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, AREAS & PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND/OR NEW WORK.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES.
16. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF ACCESS & ADDITIONAL ENERGY CONSERVATION NOTES.
17. REFER TO PLUMBING DRAWINGS FOR PRIMARY & SECONDARY CONDENSATE DRAINS.
18. ALL SA & RA OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
19. ALL A/C UNIT CONDENSATE DRAIN PIPE SHALL BE INSTALLED PER THE PLUMBING PLANS. ALL INTERIOR CONDENSATE DRAIN PIPING SHALL BE INSULATED.
20. CONTRACTOR SHALL VERIFY ALL EXISTING RE-USED EQUIPMENT OR CONTROLS AND PROVIDE REPLACEMENT PARTS INCLUDING BUT NOT LIMITED TO, BELTS, PULLEYS, SHEAVES, FILTERS, WORN PARTS, VAV/VVT DAMPERS AND ALL CONTROL COMPONENTS, AS NEEDED TO BRING A/C UNITS, A/C SYSTEMS AND A/C CONTROLS UP TO FULL OPERATIONAL STATUS.
21. ACCESS TO ROOF MOUNTED EQUIPMENT SHALL COMPLY WITH SECTION 304 OF THE 2019 CMC.
22. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED AND SEISMICALLY BRACED AS PER BUILDING CODE REQUIREMENTS.
23. ALL APPLIANCE, PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE A MINIMUM OF 10 FEET IN A HORIZONTAL DIRECTION, OR A MINIMUM OF 3 FEET ABOVE THE OUTSIDE AIR INTAKE OF HVAC UNITS (OSHPD PROJECTS SHALL BE MIN. 25'-0" AWAY).
24. THERMOSTATS SHALL HAVE THE CAPABILITY OF BEING SET TO MAINTAIN ROOM SPACE TEMPERATURE SET POINTS FROM 55F. TO 85F., AND SHALL OPERATE THE HEATING AND COOLING IN SEQUENCE. PROVIDE THERMOSTATS THAT CAN BE ADJUSTED FOR A TEMPERATURE RANGE OF UP TO 5F. BETWEEN FULL HEATING & FULL COOLING BEING SUPPLIED. THERMOSTAT CONTROLS SHALL HAVE THE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NOT MORE THAN 70F. AND COOLING AT A TEMPERATURE NOT LESS THAN 78F.
25. ALL THERMOSTATS SHALL BE MOUNTED 48" AFF SO AS TO BE IN COMPLIANCE WITH A.D.A. REQUIREMENTS.
26. GENERAL CONTRACTOR SHALL COMPLY W/ 2019 CMC SEC. 310 BY PROVIDING SERVICE RECEPTACLE WITHIN IN 25' OF UNIT.
27. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AUTOMATIC SHUTOFF. CMC 608.1
28. BALANCING VOLUME DAMPERS SHALL BE INSTALLED IN EACH BRANCH DUCT AND IN EACH MAIN DUCT TO ENSURE FOR COMPLETE AIR BALANCING. FURNISH EACH MANUAL VOLUME DAMPER WITH BEARINGS AND AN ADJUSTING DEVICE HAVING A LOOKING MECHANISM. PROVIDE ACCESS PANELS TO VOLUME DAMPERS IF CONCEALED OR UNACCESSIBLE THROUGH CEILING OR WALL. WHERE ACCESS PANELS ARE NOT DESIRED, PROVIDE REMOTE CABLE CONTROL DAMPER ASSEMBLIES. ALL VOLUME DAMPERS LOCATED ABOVE UNACCESSIBLE CEILINGS SHALL BE PROVIDED WITH EITHER CEILING ACCESS PANELS OR REMOTE CABLE CONTROL DAMPER ASSEMBLY WHETHER OR NOT SHOWN ON THE DRAWINGS.
29. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM, PER 2019 CGSBC SECT 5.504.3
30. CONTRACTOR SHALL REFERENCE ALL MECHANICAL DETAILS REGARDLESS IF DETAILS ARE NOTED IN THE PLANS. IF A DETAIL IS NOT REFERENCED ON THE PLAN, CONTRACTOR SHALL FOLLOW MOST RELEVANT DETAIL FOR CONSTRUCTION.
31. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 ENERGY EFFICIENCY STANDARDS (E.E.S.)
32. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTIONS 110.6 AND 110.7 E.E.S.

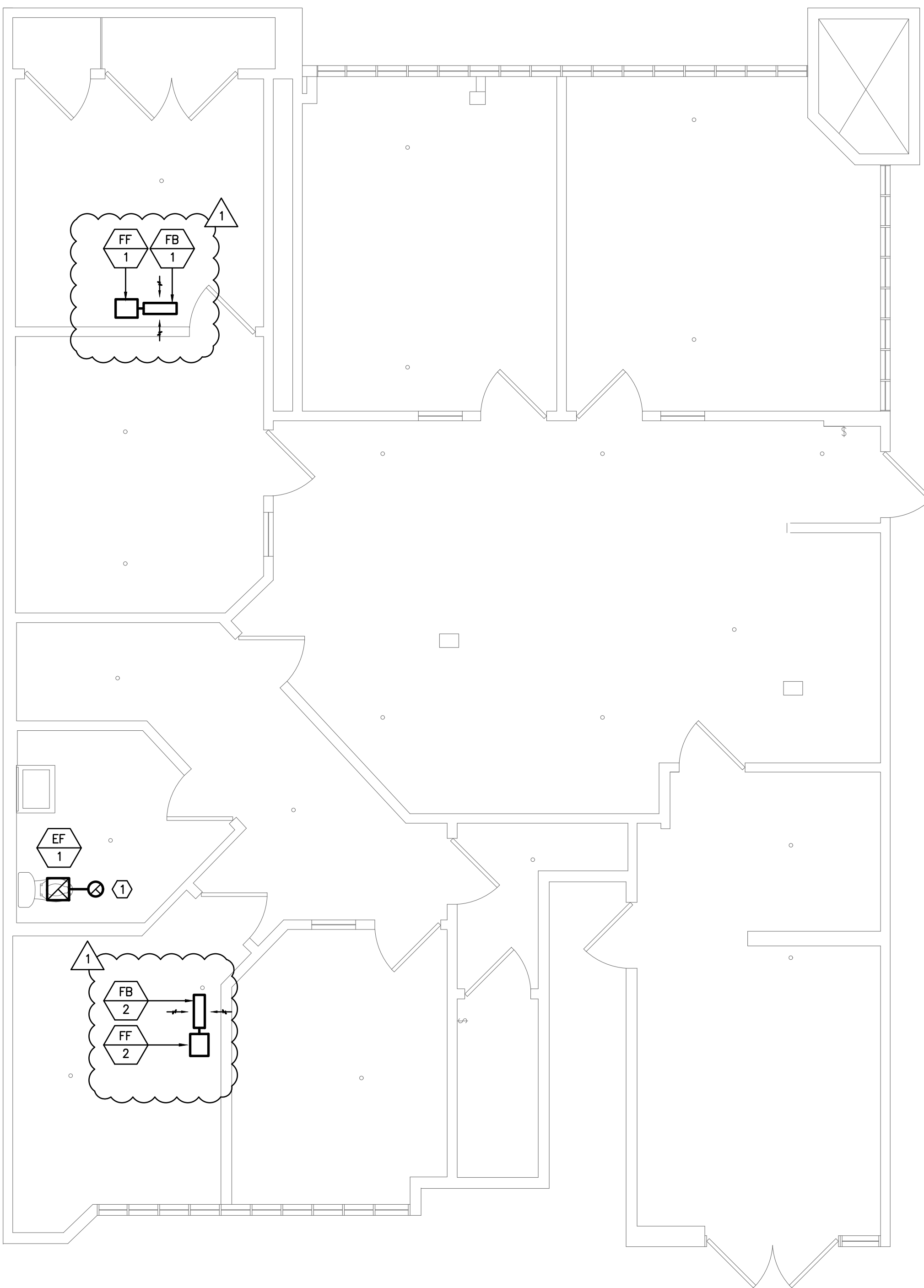
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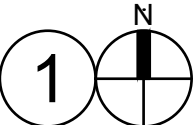
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M0.1



MECHANICAL FLOOR PLAN

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



PLAN NOTES

① 6"Ø EXHAUST AIR DUCT UP THRU. ROOF.



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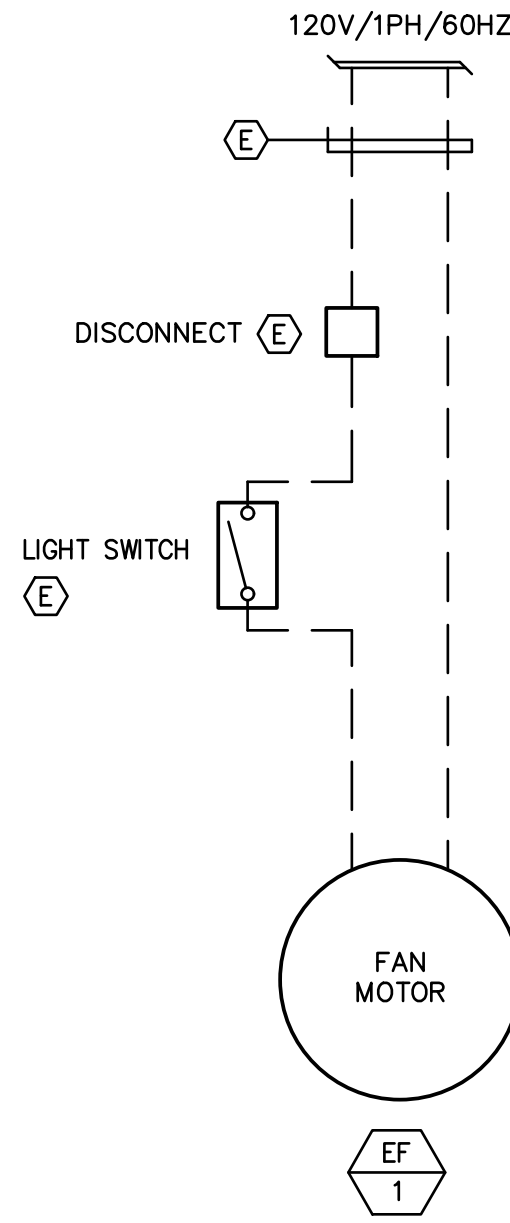
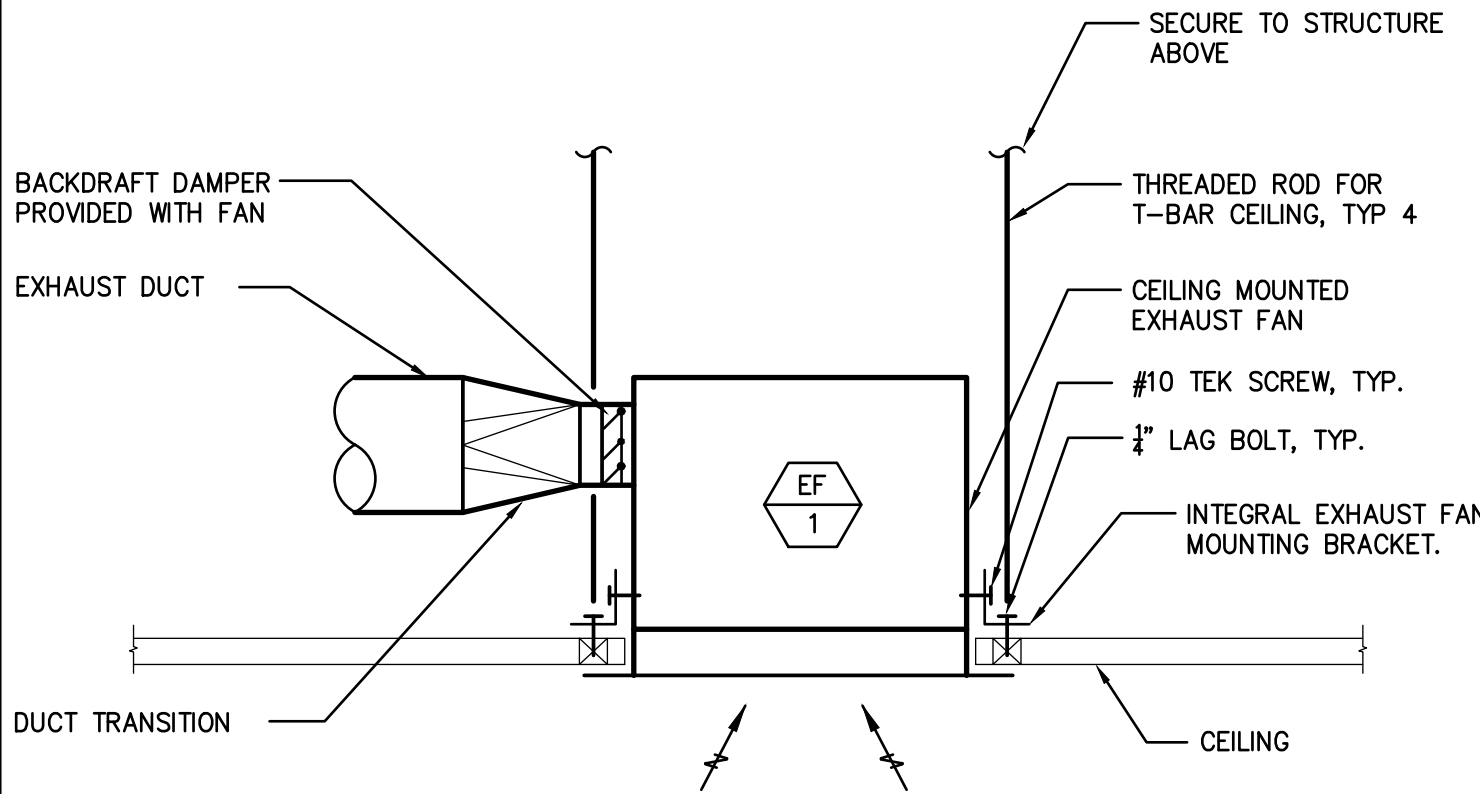
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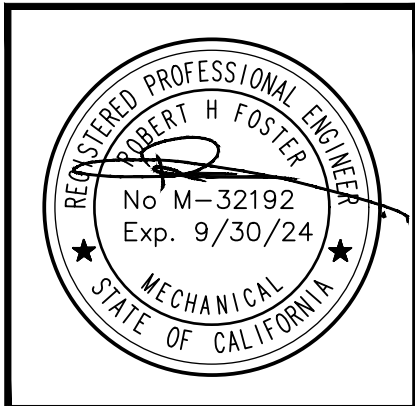
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MECHANICAL
FLOOR PLAN

M2.1

							
-	10	-	7	-	4	EXHAUST FAN WIRING SCHEMATIC	1
							
-	11	-	8	-	5	CELING EXHAUST FAN MOUTING DETAIL	2
-	12	-	9	-	6	-	3

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MECHANICAL
DETAILS

M4.1



NOTES:
① DENOTES EXIST. CB TO REMAIN; ALL OTHERS ARE NEW TO MATCH EXIST. TYPE AND AIC VALUE.

PIPING MATERIALS

1.

SOIL, WASTE, VENT, AND STORM DRAIN PIPING BELOW GROUND:

NO-HUB CAST-IRON WITH 4-BAND STAINLESS STEEL COUPLINGS. WRAP ALL UNDERGROUND PIPING WITH 8 MIL. POLYETHYLENE ENCASEMENT PER ANSI/AWWA C105/A21.5-93.
2.

SOIL, WASTE, VENT, AND STORM DRAIN PIPING ABOVE GROUND:

NO-HUB CAST IRON PIPE AND FITTINGS, CISPI-301 WITH 2-BAND STAINLESS STEEL COUPLINGS, CISPI-310-85.
3.

WATER PIPING BELOW GROUND:
WATER PIPING BELOW BUILDING:

TYPE 'K' COPPER WITH BRAZED JOINTS.
TYPE 'K' COPPER, NO JOINTS ALLOWED.
4.

WATER PIPING ABOVE GROUND:

TYPE 'L' HARD DRAWN COPPER TUBE WITH WROUGHT COPPER FITTINGS AND LEAD FREE SOLDERED JOINTS.
5.

INSULATION OF DOMESTIC HOT WATER AND INTERIOR CONDENSATE PIPING:

GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 750AP, 1 INCH THICK FOR PIPE SIZES 1 INCH AND BELOW, 1-1/2 INCHES THICK FOR PIPE SIZES 1-1/4 AND 1-1/2 INCHES, AND 2 INCHES THICK FOR LINES 2 INCH AND LARGER.
6.

CONDENSATE PIPING:

TYPE 'M' COPPER TUBE ASTM B88 AND WROUGHT COPPER FITTINGS AND LEAD FREE SOLDERED JOINTS.
7.

GAS FUEL PIPE ABOVE GRADE:

SCHEDULE 40 A-53 BLACK STEEL PIPE W/M.I. SCREWED FITTINGS.
8.

ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS.

WATER PIPE SIZING CHART				
5.0 P.S.I.				
SIZE (IN.)	G.P.M.	FLUSH TANK F.U.	FLUSH VALVE F.U.	HOT WATER F.U.
1/2"	1.9	1	0	1
3/4"	4.9	7	0	7
1"	10	18	0	16
1-1/4"	17	34	5	28
1-1/2"	27	66	20	46
2"	56	245	124	119
2 1/2"	92	638	559	310
BASED ON UNIFORM PLUMBING CODE 2019 EDITION. CW MAX. 8 F.P.S. VELOCITY OR 5.0 P.S.I.G. / 100 FEET MAXIMUM PRESSURE DROP. HW 5 F.P.S. VELOCITY OR 5.0 P.S.I.G. / 100 FEET.				

PLUMBING SHEET INDEX

- P0.1 PLUMBING LEGEND AND GENERAL NOTES
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PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, DRAINS, PIPE CHASES AND FURRING.
2. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THRU WALLS AND SLABS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS AND FLOORS INCLUDING ALL SAW CUTTING AND CORE DRILLING.
4. COORDINATE AND VERIFY EXACT LOCATIONS, SIZES, POINTS OF CONNECTION AND INVERT ELEVATIONS OF ALL EXISTING PIPING PRIOR TO INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
5. PLUMBING DRAWINGS ARE DIAGRAMMATIC. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS, AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
6. ALL VALVES SHALL BE LOCATED SO AS TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS OR ABOVE A CEILING, AN ACCESS PANEL SHALL BE INSTALLED.
7. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS.
8. COORDINATE LOCATION OF GAS AND DRAIN CONNECTIONS ON MECH. EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
9. ALL WORK SHALL CONFORM TO CODE. IN CASE OF CONFLICTS WITH CODE, DRAWINGS OR SPECIFICATIONS; THE MOST STRINGENT SHALL PREVAIL.
10. WHERE PLUMBING PIPING PENETRATES A SEPARATION WALL SURFACE, FOR THE SECTION PASSING THRU THE WALL SURFACE, THE FIXTURE CONNECTIONS ATTACHED THERETO SHALL BE ONLY OF "METAL".
11. ALL PIPING PENETRATIONS THRU A FIRE RATED WALL SHALL BE INSTALLED WITH AN APPROVED FIRESTOP SYSTEM.
12. SERVICE WATER HEATING EQUIP. SHALL MEET ALL OF THE REQUIREMENTS OF THE APPLICABLE EFFICIENCY STANDARDS AND SHALL BE CURRENTLY LISTED AS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
13. ALL ACCESSIBLE FIXTURES SHALL BE FURNISHED AND INSTALLED IN STRICT ACCORDANCE WITH THE C.A.C.
14. ALL HORIZONTAL WASTE LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT (2%) UNLESS OTHERWISE NOTED ON PLAN.
15. ALL HORIZONTAL STORM DRAINS AND OVERFLOW DRAIN LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT (2%) UNLESS OTHERWISE NOTED ON PLAN.
16. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING OR EQUIPMENT IS INDICATED.
17. INSTALL ALL NEW PLUMBING AND PIPING WORK TO AVOID INTERFERENCE WITH NEW AND EXISTING MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT WHERE REQUIRED. OFFSET NEW PIPING TO CLEAR EXISTING INSTALLATION.
18. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE PLUMBING CODE.
19. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
20. ACCESSIBLE WATER HAMMER ARRESTERS SHALL BE INSTALLED FOR QUICK-ACTING VALVES. LOCATION AND METHOD OF INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATION.
21. SANITARY VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT. PER 2019 CPC, SECTION 906.2.
22. LAVATORY CONTROLS SHALL LIMIT THE FLOW RATE TO 0.5 GPM AND 105 DEGREES F.
23. ALL EXISTING PIPING RELATED TO PLUMBING FIXTURES BEING DEMOLISHED AND NOT BEING USED SHALL BE REMOVED AND/OR CAPPED OFF IN WALL, BELOW FLOOR AND ABOVE CEILING.
24. PROVIDE ACCESS PANELS FOR ALL WATER HAMMER ARRESTORS AND TRAP PRIMERS.
25. ALL HORIZONTAL INDIRECT WASTE LINES INCLUDING CONDENSATE DRAINS SHALL BE RUN AT A MINIMUM SLOPE OF 1/8" PER FOOT.
26. ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
27. WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
28. HOT WATER TO HANDWASHING FIXTURES SHALL BE LIMITED TO 105°F.
29. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTION 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
30. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
31. FOR DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE DRAWINGS SHALL GOVERN.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	S OR W	SOIL OR WASTE LOCATED ABOVE FLOOR OR GRADE
	S OR W	SOIL OR WASTE LOCATED BELOW FLOOR OR GRADE
	SD	STORM DRAIN LOCATED ABOVE FLOOR OR GRADE
	SD	STORM DRAIN LOCATED BELOW FLOOR OR GRADE
	OD	OVERFLOW DRAIN LOCATED ABOVE FLOOR OR GRADE
	OD	OVERFLOW DRAIN LOCATED BELOW FLOOR OR GRADE
	V	SANITARY VENT
	CW	COLD WATER LINE
	ICW	INDUSTRIAL COLD WATER LINE
	HW	HOT WATER LINE
	HWR	HOT WATER RETURN LINE
	CA	COMPRESSED AIR LINE
	F	FIRE MAIN
	VAC	VACUUM LINE
	ASD	AUTOMATIC SPRINKLER DRAIN LINE
	D	INDIRECT DRAIN LINE
	CD	CONDENSATE DRAIN LINE
	G	FUEL GAS LINE
	TP	TRAP PRIMER
		DIRECTION OF FLOW
	PG	PRESSURE GAUGE W/PETE COCK
	GC	GAS COCK
	PRV	PRESSURE REDUCING VALVE
	SOV	SHUT-OFF VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	DN	DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
	WHA	WATER HAMMER ARRESTOR
	POC	POINT OF CONNECTION
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	ABV.	ABOVE
	A.F.F.	ABOVE FINISHED FLOOR
	A.P.	ACCESS PANEL
	BEH.	BEHIND
	BEL.	BELOW
	CLG.	CEILING
	CONT.	CONTINUATION
	(E) EXIST.	EXISTING
	F.D.C.	FIRE DEPARTMENT CONNECTION
	F.F.E.	FINISHED FLOOR ELEVATION
	FLR.	FLOOR
	FR.	FROM
	GR.	GRADE
	HDR.	HEADER
	I.E.	INVERT ELEVATION
	V.T.R.	VENT THROUGH ROOF
	OFC&I	OWNER FURNISHED CONTRACTOR INSTALLED

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PLUMBING
LEGEND & NOTES

P0.1

PLUMBING FIXTURE SCHEDULE							
UNIT TAG	DESCRIPTION	CONNECTION SIZES					REMARKS
		TRAP	WASTE	VENT	CW	HW	
WC-1	WATER CLOSET (ADA COMPLIANT)	INT	4"	2"	1"	-	ZURN #Z5561 FLOOR MOUNTED, FLUSH TANK, HET, PRESSURE ASSISTED, ELONGATED BOWL, VITREOUS CHINA, WHITE, 1.1 G.P.F. SEAT: ZURN #Z5955S-EL, OPEN FRONT LESS COVER, WITH STAINLESS STEEL CHECK HINGE. LEVER TO BE PLACED ON DOOR SIDE. ADA COMPLIANT.
L-1	LAVATORY	1½"	2"	1½"	½"	½"	KOHLER "KINGSTON" #K-2007 WALL MOUNTED BATHROOM SINK, ONE FAUCET HOLE. FAUCET: KOHLER "SCULPTED" MODEL #K-13461-CP, DECK MOUNTED, SINGLE HOLE, ABOVE-COUNTER BATTERIES INCLUDED, SENSOR OPERATED, 0.5 GPM, VANDAL RESISTANT AERATOR, POLISHED CHROME. COMPLETE WITH BRASSCRAFT KT SERIES ½ TURN ANGLE STOPS. THERMOSTATIC MIXER LOCATED BELOW SET @ 105°F. TAILPIECE AND HOT WATER LINES SHALL BE INSULATED OR COVERED PER CBC 11B-606.5. ASME A112.18.1/CSA B125.1. NSF/ANSI 372. LEAD FREE. OBC, CSA B651 COMPLIANT. ADA COMPLIANT.
WHA-1	WATER HAMMER ARRESTOR	-	-	-	¾"	-	JAY R. SMITH, #5005 "HYDROTROL" STAINLESS STEEL SHOCK ABSORBER.
TP-1	TRAP PRIMER	-	-	-	½"	-	PRECISION PLUMBING PRODUCTS, P2-500, WITH ACCESS PANEL & DISTRIBUTION UNIT DU-4/DU-U AS REQUIRED.
FD-1	FLOOR DRAIN	2"	2"	2"	-	-	JAY R. SMITH, MODEL 2005-Y-A-NB ROUND TOP DRAIN W/ NO-HUB OUTLET.

ELECTRIC WATER HEATER SCHEDULE											
TAG NO.	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	STORAGE CAPACITY	ELECTRICAL		REC. @ 60° ΔT (GPH)	WATER INLET TEMP °F	WATER OUTLET TEMP °F	OPERATING WEIGHT (LBS)	REMARKS
					KW	V/P/HZ					
WH 1	CHRONOMITE CMI-30L/208	RESTROOM LAVATORY	DOMESTIC HOT WATER	INSTANTANEOUS	6.24	208-1-60	INSTANTANEOUS	60	105	5	UL LISTED. IAPMO LISTED. LEAD FREE. PROVIDE MIXING VALVE AT LAVATORY SET TEMPERATURE OF 105°F.

WATER SYSTEM CALCULATION			
MAX. STREET PRESSURE AT THE MAIN -	-	94 P.S.I.	
MIN. STREET PRESSURE AT THE MAIN -	-	89 P.S.I.	
TOTAL G.P.M. (FLUSH TANK SYSTEM) - 6 FU		5 GPM	
LOSSES:			
2" WATER METER (E)	-	0.3 P.S.I.	
1" BACKFLOW PREVENTER - (E) ZURN WILKINS - 975XL2	-	11.5 P.S.I.	
2" PRESSURE REDUCING VALVE - (E) ZURN WILKINS - 500XL	-	1.5 P.S.I.	
STATIC LOSS 12' x .431	-	5.2 P.S.I.	
RESIDUAL PRESSURE	-	25.0 P.S.I.	
TOTAL:	-	30.2 P.S.I.	
PRESSURE AVAILABLE FOR FRICTION LOSS (70 - 30.2)	-	39.8 P.S.I.	
TOTAL DEVELOPED LENGTH OF RUN FROM METER TO GOVERNING FIXTURE (INCLUDING FITTINGS) 368' x 1.2 =	-	442'	
ALLOWABLE AVERAGE LOSS DUE TO FRICTION PER 100' OF PIPE (30.2 x 100') / 442'	-	6.8 P.S.I.	
PIPE SIZES BASED ON 5 P.S.I. LOSS PER 100' OR 8 FT. PER SECOND VELOCITY WHICHEVER RESTRICTION IS GREATER.			

FIXTURE UNITS			
QUANTITY	NEW FIXTURE	WATER FIXTURE UNITS	SEWER FIXTURE UNITS
1	WATER CLOSET (FLUSH TANK)	2.5 EACH = 2.5	4 EACH = 4
0	URINAL	VARIES = 0	2 EACH = 0
1	LAVATORY	1 EACH = 1	1 EACH = 1
0	COFFEE MAKER	1/2 EACH = 0	0 EACH = 0
0	SINK	2 EACH = 0	2 EACH = 0
1	FLOOR DRAIN	0 EACH = 0	4 EACH = 4
0	SERVICE SINK	3 EACH = 0	3 EACH = 0
0	REFRIGERATOR	1/2 EACH = 0	0 EACH = 0
1	HOSE BIBB (EXISTING)	VARIES = 2.5	0 EACH = 0
	TOTAL:	6	9

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PLUMBING
SCHEDULES

P0.2

SECTION 15400
PLUMBING

PART 1 – GENERAL

1.01 GENERAL CONDITIONS

THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND DIVISION 1, ARE A PART OF THIS SECTION AND THE CONTRACT FOR THIS WORK AND SHALL APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.

1.02 SCOPE OF WORK

FURNISH ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND NECESSARY INCIDENTALS FOR THE COMPLETE INSTALLATION OF ALL PLUMBING AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

A. WORK SPECIFIED IN THIS SECTION

1. SANITARY SOIL, WASTE AND VENT SYSTEM.
2. DOMESTIC HOT AND COLD WATER SYSTEMS.
3. GAS SYSTEM.
4. FLOOR SINKS AND FLOOR DRAINS.
5. DOMESTIC WATER HEATERS.
6. FURNISH AND SET ALL SLEEVES FOR PIPES PASSING THROUGH WALLS AND FLOORS.
7. PIPE COVERING, INSULATION AND WRAPPING.
8. EXCAVATION AND BACKFILL.
9. ROUGH-IN AND FINAL CONNECTIONS TO AIR CONDITIONING EQUIPMENT OF GAS AND WATER AND CONDENSATE DRAINS.
10. ROUGH-IN AND FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS OR BY THE OWNER.
11. ALL PLUMBING FIXTURES, WATER HEATERS, VALVES, AND OTHER MISCELLANEOUS ITEMS OR EQUIPMENT REQUIRED FOR A COMPLETE INSATILLATION.
12. SAFING OF ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS.
13. WATER FOR CONSTRUCTION AND TEMPORARY CONNECTIONS.
14. CATHODIC PROTECTION FOR UNDERGROUND STEEL OR FERROUS PIPING.
15. ROUGH-IN AND FINAL CONNECTIONS FOR ALL ROOF DRAINS AND OVERFLOW DRAINS.

B. RELATED WORK IN OTHER SECTIONS

1. CUTTING AND PATCHING AS SPECIFIED IN SECTION 01000.

1.03 QUALITY ASSURANCE

A. CODES AND STANDARDS

1. ALL ITEMS INDICATED ON SITE, ARCHITECTURAL OR MECHANICAL DRAWINGS ARE TO BE PROVIDED COMPLETE FROM POINT OF CONNECTION TO FINISHED FIXTURE IN CONFORMANCE WITH ALL GOVERNING AUTHORITY REQUIREMENTS. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK IN VIOLATION OF GOVERNING CODES.
2. IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS:
 - a. CALIFORNIA BUILDING CODE, 2019 EDITION.
 - b. CALIFORNIA PLUMBING CODE, 2019 EDITION.
 - c. STATE FIRE MARSHAL.
 - d. CALIFORNIA ADMINISTRATIVE CODE.
 - e. ALL OTHER REGULATORY AGENCIES HAVING JURISDICTION OVER THIS WORK.
3. GUARANTEES: FURNISH A WRITTEN GUARANTEE FORM REQUIRED UNDER DIVISION 1, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR. GUARANTEE SHALL INCLUDE REPAIR OF DAMAGE TO, OR REPLACEMENT (IF SO REQUIRED) OF ANY PART OF PREMISES CAUSED BY WATER.

1.04 SUBMITTALS

- A. MANUFACTURER'S LITERATURE: WITHIN 35 DAYS AFTER AWARD OF CONTRACT AND BEFORE ANY OF THE MATERIALS OF THIS SECTION ARE DELIVERED TO THE JOB SITE, SUBMIT SEVEN COMPLETE BROCHURES OF ALL MATERIALS AND EQUIPMENT, PER DIVISION 1 OF THE SPECIFICATIONS.
- B. OTHER SUBMITTALS
 1. SHOP DRAWINGS.
 2. STERILIZATION TEST REPORT.
 3. TEST DATA.
- C. OPERATION AND MAINTENANCE INSTRUCTIONS: DELIVER TO ARCHITECT TWO COMPLETE SETS IN BOUND BOOKLET FORM OF WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS AND BROCHURES FOR EQUIPMENT SPECIFIED IN THIS SECTION. FULLY INSTRUCT OWNER'S OPERATING PERSONNEL, AND DEMONSTRATE PERFORMANCE, OPERATION AND MAINTENANCE OF EQUIPMENT. AMOUNT OF TIME ALLOCATED FOR SAID INSTRUCTION AND DEMONSTRATIONS OF EQUIPMENT AND SYSTEMS SHALL BE PART OF THESE OBLIGATIONS. ONE ADDITIONAL SET OF APPROVED INSTRUCTIONS SHALL BE SUITABLY FRAMED BEHIND GLASS AND MOUNTED AS DIRECTED.
- D. RECORD DRAWINGS: KEEP AN ACCURATE DIMENSIONED RECORD OF AS-BUILT LOCATIONS AND ELEVATIONS, AS REFERRED TO APPROVED BASE DATUM, OF BURIED CONCEALED LINES, MANHOLES, CLEANOUTS, VALVES, PLUGGED TEES, CAPPED ENDS, AND OF WORK WHICH IS INSTALLED DIFFERENT FROM THAT INDICATED.

1.05 PRODUCT HANDLING

- A. PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING, AND AFTER INSTALLATION.
- B. REPLACEMENTS: IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

1.06 MISCELLANEOUS

- A. EXAMINATION OF THE SITE: EXERCISE CARE IN EXAMINING THE SITE AND COORDINATE ALL WORK INDICATED ON THE DRAWINGS WITH EXISTING CONDITIONS. REPORT TO ARCHITECT IN WRITING CONDITIONS THAT WILL PREVENT PROPER PROVISIONS OF THIS WORK. VERIFY DEPTH AND LOCATION OF ALL SERVICE LINES WITH SERVING COMPANIES HAVING JURISDICTION BEFORE EXCAVATING. BY SUBMISSION OF THE BID, THE CONTRACTOR WARRANTS THAT HE HAS BEEN FAMILIARIZED HIMSELF WITH THE EXISTING CONDITIONS AND WILL PERFORM ALL WORK AS REQUIRED FOR HOOKUP AND AS REQUIRED BY THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER.
- B. PERMITS AND FEES: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND FEES REQUIRED BY ALL GOVERNING AGENCIES. DELIVER ALL CERTIFICATES TO OWNER THROUGH THE ARCHITECT.
- C. SERVICE CONNECTIONS: MAKE ALL NECESSARY ARRANGEMENTS WITH APPLICABLE UTILITY COMPANY FOR CONNECTION TO EXISTING SERVICE LINES. PAY ALL FEES ASSOCIATED WITH WORK INCLUDING METERS AND HOOKUP CHARGE, UTILITY ASSESSMENT FEES, IF ANY, WILL BE PAID BY THE OWNER.
- D. DRAWINGS: COORDINATE ALL SPACE REQUIREMENTS WITH OTHER TRADES. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT, AND OTHER ITEMS AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE.

PART 2 – PRODUCTS

2.01 GENERAL

- A. PIPE SLEEVES AND WRAPPING: PROVIDE POLISHED CHROMIUM PLATED AND BRASS SET SCREW FLANGES WHERE PLUMBING PASS THROUGH WALLS, FLOORS, CEILINGS, AND PARTITIONS IN FINISHED PORTIONS OF BUILDING INCLUDING FLANGES ON PIPES AT FIXTURES. ALL SLEEVES IN CONCEALED AND EXTERIOR WALLS SHALL BE 20 GA. GALVANIZED IRON ONE INCH O.D. LARGER THAN THE PIPE, CAULKED IF BELOW GRADE IN A MOISTUREPROOF MANNER. ALL PIPES PENETRATING THROUGH FIRE WALLS AND FLOORS SHALL BE PROPERLY SAIED WITH DOW CORNING 3-POAB SILICONE RTV FOAM, HILTI, HYDROFLAME, OR EQUAL. INSTALL PER MANUFACTURER'S DIRECTION.
- B. PIPE IDENTIFICATION
 1. PIPING IDENTIFICATION PER ANSI AND OSHA STANDARDS: EACH INDIVIDUAL PIPELINE SHALL BE MARKED FOR QUICK AND EASY IDENTIFICATION AS TO CONTENTS AND CHARACTER OF MATERIAL CARRIED IN THE PIPES BY SET ON SNA OR STR MARKER.
 2. MARKERS SHALL BE INSTALLED AND SPACED AT NOT MORE THAN 8 FT. INTERVALS AND SO LOCATED THAT MARKERS SHALL BE VISIBLE WHERE PIPING SYSTEM IS EXPOSED.
 3. COLOR SCHEME SHALL BE APPROVED. BASE COLOR FOR MARKERS SHALL BE AS FOLLOWS:

DOMESTIC HOT WATER	—	YELLOW
DOMESTIC COLD WATER	—	GREEN
FUEL GAS	—	YELLOW
SANITARY SEWER	—	GREEN
SANITARY VENT	—	GREEN
STORM DRAINS	—	GREEN
CONDENSATE DRAIN	—	BLUE
- C. ONE MARKER SHALL BE INSTALLED AT EACH SIDE OF VALVES, SPECIAL FITTINGS AND AT BRANCH TAKE-OFF. IN FURRED SPACES INSTALL ONE BAND 2 FT. ABOVE FLOOR AND 19 IN. BELOW CEILING LINE.
- D. FURNISH TWO IDENTIFICATION CHARTS COMPLETE WITH GLASS AND FRAME SHOWING LIST OF MATERIALS CARRIED IN THE PIPING SYSTEM, CLASSIFIED BY NATURE OF ITS CONTENTS AND RESPECTIVE IDENTIFYING COLORS.
- E. MATERIALS: MATERIALS WHEN NOT OTHERWISE DEFINITELY SPECIFIED SHALL CONFORM TO THE APPLICABLE ASTM, ASME, AGA, AND ASA STANDARDS.
- F. EQUAL MATERIALS AND SUBSTITUTIONS: IN ADDITION TO MANUFACTURERS SPECIFIED, THE FOLLOWING SHALL ALSO BE CONSIDERED EQUAL, PROVIDED CORRESPONDING MODELS MEET SPECIFIED REQUIREMENTS. EQUIVALENT SUBSTITUTED EQUIPMENT NAMED HEREIN SHALL BE SUBMITTED TO ARCHITECT.

ITEM	MANUFACTURER
SOLDERS:	HANDY & HARMAN, LUCAS-MILHAUPT
CLEANOUTS:	ZURN
VALVES:	WALWORTH, MILWAUKEE, NIBCO
PIPE HANGERS & SUPPORTS:	GRINNELL, FEE & MASON, B-LINE
ACCESS PANELS:	MILCOR
GAS VENTS:	METALBESTOS, AMERIVENT
INSULATION:	MANVILLE, OWENS-CORNING,
PLUMBING FIXTURES:	AMERICAN STANDARD
TOILET SEATS:	OLSONITE #95
DRAINS & FLOOR SINKS:	ZURN, SMITH
BACKFLOW PREVENTERS:	NEPTUNE, HERSEY, FEBCO
WATER PRESSURE REDUCING VALVES:	BAILEY, WILKINS, WATTS
PRESSURE GAUGES:	MARSH, MARSHALLTOWN, TRECIE
WATER HEATERS:	AMERICAN, STATE, LOCHINVAR
SOIL PIPE:	TYLER, AB & I, CHARLOTTE

2.02 PIPE AND FITTING SCHEDULE

- A. SOIL, WASTE, VENT AND STORM DRAIN PIPING TO BE SERVICE WEIGHT NO-HUB CAST IRON PIPE AND FITTINGS CISPI-301, AND ALL OTHER TO BE A.B.S. PIPE AND FITTINGS. MANUFACTURED BY AB & I, TYLER, OR CHARLOTTE.
- B. DOMESTIC HOT AND COLD WATER PIPING ABOVE GROUND: TYPE L HARD-DRAWN COPPER TUBE, ASTM B88, AND WROUGHT COPPER FITTINGS, ANSI B16.22.
- C. DOMESTIC COLD WATER PIPING BELOW GROUND AND OUTSIDE THE BUILDING
 1. 3 IN. AND SMALLER: TYPE K HARD-DRAWN COPPER TUBE, ASTM B88, AND WROUGHT COPPER FITTINGS, ANSI B16 22, SOLDER JOINT TYPE (REFER TO PARAGRAPH "PIPE WRAPPING" HEREIN).
- D. INDIRECT AND CONDENSATE DRAINS: TYPE M COPPER TUBE, ASTM B88 AND WROUGHT COPPER FITTINGS, ANSI B16.22, SOLDER JOINT TYPE.
- E. GAS PIPING
 1. 2 IN. AND SMALLER ABOVE GROUND: SCHEDULE 40 BLACK STEEL PIPE, ASTM A-135, A-795, WITH CLASS 150 WOG BLACK FITTINGS.
 2. BELOW GROUND: PLEXCO PE2406 POLYETHYLENE PIPING SYSTEMS WITH ELECTRIC FUSION SOCKET FUSION JOINTS. PROVIDE #12 ELECTRIC TRACER COPPER WIRE, SPIRAL WRAPPED AROUND PIPE. BACKFILL WITH CLEAN SAND 4" AROUND PIPE.

2.03 MATERIALS FOR JOINTS, FITTINGS AND VALVES

- A. SOIL, WASTE, VENT AND STORM DRAIN CAST-IRON PIPE. MANUFACTURED BY AB & I, TYLER, OR CHARLOTTE.
 1. "NO-HUB" COUPLINGS AS APPROVED BY THE CAST-IRON SOIL PIPE FOUNDATION, CISPI-310-85.
- B. SOLDER AND FLUX
 1. WATER PIPING: EQUIVALENT TO HARRIS "BRIDGIT" LEAD-FREE BRAZING ALLOY. 95-5 SOLDERS ARE NOT APPROVED.
 2. COPPER INDIRECT AND CONDENSATE DRAINAGE PIPING: LEAD-FREE SOLDER WITH NON-CORROSIVE PASTE FLUX.
- C. UNIONS AND GASKETS
 1. 2 IN. AND UNDER FOR STEEL PIPE: SCREWED MALLEABLE-IRON GROUND JOINT, CLASS 150 WOG, WITH BRASS-TO-IRON SEAT, GALVANIZED OR BLACK TO SUIT SERVICE.
 2. UNIONS FOR COPPER TUBING: CAST BRONZE, GROUND JOINT PATTERN, SOLDERED JOINT CONNECTION, ASTM B62 AND ANSI B16.18.
 3. DIELECTRIC UNIONS: EPCO, COMPLETE WITH ISOLATORS AND GASKETS OF SAME SIZE AS PIPE, GALVANIZED OR BLACK TO SUIT SERVICE.
 4. DIELECTRIC FLANGES: F.H. MALONEY CO., TYPE E FLANGES FOR CATHODIC INSULATION.
 5. GASKETS: 1/16 IN. GARLOCK #17022.
- D. VALVES: VALVES SHALL BE OF SAME MANUFACTURER, OR FOLLOWING NUMBERS OR EQUIVALENT BY COMPARATOR CHART OF APPROVED MANUFACTURER. PROVIDE ADAPTORS FOR VALVES IN COPPER TUBING WHERE NECESSARY. ALL DOMESTIC WATER VALVES, TWO (2) IN. AND SMALLER, SHALL BE BALL VALVES.
 1. BALL VALVES, DOMESTIC WATER: BRONZE, FULLPORT, CLASS 150, THREADED.

GRINNELL	3750 or 171N
NIBCO	T-585
JAMESBURY	300
 2. PARTITION STOP VALVES: T&S B415, LOOSE-KEY TYPE WITH WALL FLANGE.
 3. GATE VALVES, 2-1/2 IN. AND LARGER, DOMESTIC WATER: 200 PSI WOG, SOLID WEDGE DISC UNION BONNET, RISING STEM, FLANGED.

GRINNELL	6020A
NIBCO	F-617-0
CRANE	465 1/2
STOCKHAM	G-623

NOTE: FLANGED IRON BODY VALVES OR EQUIPMENT USED IN COPPER PIPING SYSTEMS SHALL BE INSTALLED WITH MALONEY FLANGE AND BOLTS INSULATING KITS.

2.03 MATERIALS FOR JOINTS, FITTINGS AND VALVES (CONT.)

- E. CHECK VALVES
 1. HORIZONTAL SWING:

A. 2-1/2 IN. AND LARGER (200 PSI WOG), IRON BODY, BRONZE TRIM, SCREWED CAP, SWING, Y-PATTERN, REGRINDING, FLANGED.	
GRINNELL	6300A
NIBCO	F-918-B
CRANE	373
STOCKHAM	G-931
- F. PRESSURE REDUCING VALVES
 1. 1-1/4 IN. AND LARGER: CLA-VAL #90-01.

2.04 BACKFLOW PREVENTERS

- A. REDUCED PRESSURE TYPE: CLA-VAL MODEL RP, WATTS, OR HERSEY FRP II OR 6CM.

2.05 PIPE HANGERS

- A. HANGERS SHALL BE SUPPLIED WITH FACTORY INSTALLED ISOLATION AND DI-CHROMATE FINISH.
 1. 2 IN. AND SMALLER: GRINNELL F69.
 2. 2-1/2 IN. AND LARGER: GRINNELL F65.
 3. CONCRETE INSERTS: GRINNELL 281 AND 282.
 4. RISER CLAMPS FOR COPPER PIPING: GRINNELL 261P, PLASTIC COATED.
 5. RISER CLAMPS FOR OTHER PIPING: GRINNELL 261.
- B. HANGER RODS SHALL CONFORM TO THE FOLLOWING TABLE:

PIPE SIZE 2 INCHES AND SMALLER: 3/8 INCH RODS
PIPE SIZE 2-1/2 INCHES AND 3 INCHES: 1/2 INCH RODS
PIPE SIZE 3 INCHES AND LARGER: 5/8 INCH RODS

2.06 ROOF FLASHING

- A. SANITARY VENT FLASHINGS: SEMCO 1100-3 OR 1100-5, WITH ONE-PIECE LEAD FLASHING AND COUNTERFLASHING SLEEVE.
- B. OTHER PIPE THROUGH ROOF FLASHING: SEMCO 1100-2 OR 1100-4, ONE-PIECE 4 LB. LEAD FLASHING AND COUNTERFLASHING SLEEVE.

2.07 PIPE SLEEVES

AT CONCRETE WALLS OR FLOORS, ADJUST-TO-CRETE, PARAMOUNT, HOLE-OUT OR SPERZEL CRETESLEEVE FLOOR SLEEVES SHALL EXTEND TO TOP OF CONCRETE CURBS FOR PIPING RISING THROUGH FLOORS. WALL SLEEVES SHALL BE FLUSH WITH FINISHED SURFACE. SLEEVES SHALL BE SIZED TO ALLOW 1/2 IN. CLEARANCE AROUND PIPE INSULATION. INSULATION AND COVERING SHALL BE CONTINUOUS THROUGH WALL AND FLOOR SLEEVES.

2.08 ACCESS PANELS

- A. ACCESS PANELS IN PLASTER WALLS AND CEILINGS: KARP #DSC214PL, ELMODR PW, 24X24 IN. WITH METAL ACCESS DOOR AND FRAME, PRIME COATED STEEL AND PAINTED TO MATCH ADJACENT SURFACES. FOR FIRE RATED AREAS USE KARP #KRP-150 FR 1-1/2 HOUR "B" LABEL ACCESS PANEL.

2.09 CLEANOUTS

- FOR CAST-IRON SOIL PIPE, IRON BODY WITH EXTRA HEAVY BRONZE PLUGS SCREWED INTO CAULKING FERRULES, FOR STEEL PIPE, EXTRA HEAVY BRONZE PLUGS; AND FOR VITRIFIED CLAY PIPE, VITRIFIED CLAY PLUGS. WHERE CLEANOUTS OCCUR IN FINISHED INTERIOR WALLS, PROVIDE ACCESS PANELS, PLATES, AND FRAMES FOR FLUSH MOUNTING. EXPOSED PARTS FOR FLOOR CLEANOUTS SHALL HAVE ADJUSTABLE TOP. ALL CLEANOUTS AND CLEANOUT PLUGS SHALL BE ACCESSIBLE. CLEANOUT SHALL BE THE FOLLOWING:
- A. IN FINISHED FLOORS: CAST-IRON WITH POLISHED NICKEL BRONZE ROUND TOP, NON-SKID DIAMOND TREAD SET FLUSH WITH THE FLOOR. PROVIDE FLASHING FLANGE WHEN USED WITH WATERPROOFING MEMBRANE.

SMITH	—	4023
WADE	—	W-6000
ZURN	—	ZN-1420-2
JOSAM	—	6010 (ADD -41 WHEN NEEDED)
 - B. IN WALLS: CLEANOUT TEE WITH SQUARED POLISHED NICKEL BRONZE ACCESS PLATE WITH VANDALPROOF SCREWS AND FRAMES. OPENING 8X8 IN. MINIMUM.

SMITH	—	4558-U
WADE	—	W-8460-S
ZURN	—	ZN-1445-3
JOSAM	—	58770-15
 - C. IN EXTERIOR GRADES: CAST-IRON BODY, VANDALPROOF COVER, NON-SKID DIAMOND TREAD, SET FLUSH WITH GRADE OR FINISHED SURFACE. IN NON-SURFACED AREA, THEY SHALL BE CAST IN A CONCRETE BLOCK 14X14X6 IN. DEEP.

SMITH	—	4020-U
WADE	—	W-8300MF
ZURN	—	ZN-1460-15-W/Z-1450-8
JOSAM	—	58680-15

2.10 SHOCK ABSORBERS

PRECISION PLUMBING PRODUCTS (PPP) SHOCK ABSORBERS INSTALLED AS INDICATED OR AS RECOMMENDED BY PDI PAMPHLET WHH-201. PROVIDE ACCESS PANEL FOR A SINGLE MULTIPLE FIXTURE INSTALLATION (NOT OF FLUSH VALVE TYPE). IN NO CASE SHALL A FIXTURE BE INSTALLED WITHOUT SHOCK PROTECTION.

2.11 INSULATION

- A. ALL PIPE INSULATION SHALL COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS. INSULATION THICKNESSES INDICATED ARE BASED ON INSULATION HAVING THERMAL RESISTANCES IN THE RANGE OF R-40 TO R-4.6 PER INCH OF THICKNESS ON A FLAT SURFACE AT A MEAN TEMPERATURE OF 75 DEGREES F. THICKNESS INDICATED ARE MINIMUM AND SHALL BE INCREASED PROPORTIONATELY FOR MATERIALS HAVING R VALUES LESS THAN 4.0 INCH OF THICKNESS OR MAY BE REDUCED FOR MATERIALS HAVING R VALUES GREATER THAN 4.6 INCH THICKNESS. INSTALL PIPE INSULATION AFTER PIPING IS INSTALLED, TESTED AND APPROVED AND IS IN CLEAN, DRY CONDITION. FIRMLY BUTT INSULATION JOINTS.
- B. INSULATE ALL HOT WATER AND INTERIOR CONDENSATE DRAIN PIPING WITH GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 650 AP. 1 INCH THICK FOR PIPE SIZE 1/2 IN. THICK FOR PIPE SIZES 1 IN., 1-1/4 IN. AND 1 1/2 IN. 2 INCHES THICK FOR PIPE 2 INCHES OR LARGER IN DIAMETER. INSULATE FITTINGS AND VALVES WITH PREFORMED INSULATION WITH PVC PREMOULDED ONE PIECE FITTING COVER, J.M. ZESTON COVER. ADHERE LONGITUDINAL LAPS & BUTTS OF STRIPS OF JACKET WITH FACTORY APPLIED PRESSURE SENSITIVE TAPE SYSTEM, J-M AP-1. FLANGES AND UNIONS SHALL NOT BE COVERED.
- C. INSULATE ALL PIPING UNDER LAVATORIES AND SINKS ACCESSIBLE TO THE PHYSICALLY HANDICAPPED WITH HOT WATER SUPPLY AND "P" TRAP PREFABRICATED INSULATION.

2.12 PLUMBING FIXTURES

- A. GENERAL: PLUMBING FIXTURES TRIM AND EXPOSED SUPPLIES AND WASTES SHALL BE BRASS WITH POLISHED CHROME-PLATED FINISH. PROVIDE INDIVIDUAL LOOSE KEY STOPS OR, IF SO SPECIFIED, SCREW DRIVER STOPS FOR SUPPLIES AND, UNLESS INTEGRAL WITH VALVES OR FAUCETS, MOUNT UNDER FIXTURE. SEPARATELY TRAP ALL WASTES. PROVIDE EXPOSED SUPPLIES AND WASTES TO WALL WITH POLISHED CHROME-PLATED CAST BRASS WALLED ESCUTCHEONS. ALL LAVATORIES SHALL HAVE 1-1/2 IN. 17 GAUGE CHROME-PLATED TUBULAR P-TRAPS. ALL PLUMBING FIXTURES SHALL BE WHITE, UNLESS OTHERWISE NOTED.
- B. WALL-HUNG FIXTURES: FIXTURES SPECIFIED WITH HANGERS OR SUPPORTING ARMS SHALL HAVE HANGERS OR ARMS SECURLY MOUNTED ON A 1/4 IN. THICK BY 6 IN. WIDE STEEL WALL PLATE WHICH EXTENDS AT LEAST ONE STUD BEYOND FIRST AND LAST FIXTURE MOUNTING POINTS, OR A TOTAL OF THREE STUDS MINIMUM. ATTACH WALL PLATE TO EACH STRUCTURAL STUD IT CROSSES BY TACK WELDING EACH SIDE OF STUD FLANGE AT TOP AND BOTTOM OF PLATE. FIXTURE OR SUPPORTING ARMS SHALL BE SECURLEY AND FIRMLY ATTACHED TO STEEL WALL PLATE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. IF STRUCTURAL STUDS ARE NOT BEING INSTALLED BEHIND WALL-HUNG FIXTURES, PLUMBING CONTRACTOR SHALL NOTIFY ARCHITECT AND MECHANICAL ENGINEER IMMEDIATELY.

- 12- DRAINS: WHERE INSTALLED IN CONSTRUCTION WITH WATERPROOF MEMBRANE, PROVIDE DRAINS WITH FLASHING CLAMP DEVICE WITH CORROSION-RESISTANT CLAMPING BOLTS.
- D. FIXTURES, TRIM AND ACCESSORIES SHALL BE AS SHOWN ON THE PLUMBING FIXTURE SCHEDULE ON THE PLUMBING LEAD SHEET.

2.13 DOMESTIC WATER HEATERS

- A. DOMESTIC WATER HEATERS SHALL BE AS SHOWN ON THE WATER HEATER SCHEDULE ON THE PLUMBING LEAD SHEET.

PART 3 – EXECUTION

3.01 SURFACE CONDITIONS

- A. INSPECTION: ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, THE ORIGINAL DESIGN, AND THE REFERENCED STANDARDS.
- B. DISCREPANCIES
 1. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE ARCHITECT.
 2. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.
 3. INTERFERENCES BETWEEN INSTALLED WORK OF VARIOUS TRADES DUE TO LACK OF COORDINATION SHALL BE RESOLVED BY ARCHITECT WHOSE DECISION IS FINAL. RELOCATE OR OFFSET ANY WORK AS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES AT NO EXTRA COST TO THE OWNER WHEN SO DIRECTED BY THE ARCHITECT.

3.02 LOCATIONS AND SPACE REQUIREMENTS

- A. CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACES AVAILABLE FOR INSTALLATION OF WORK UNDER THIS DIVISION. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT AND OTHER ITEMS, AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. WORK SPECIFIED AND NOT CLEARLY DEFINED BY DRAWINGS SHALL BE INSTALLED AND ARRANGED IN A MANNER SATISFACTORY TO ARCHITECT. IN EVENT CHANGES IN INDICATED LOCATIONS AND ARRANGEMENTS ARE DEEMED NECESSARY BY ARCHITECT, THEY SHALL BE MADE BY CONTRACTOR WITHOUT ADDITIONAL CHARGE PROVIDED THE CHANGE IS ORDERED BEFORE WORK IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- B. VERIFY ALL SPACES, DIMENSIONS FOR ALL FIXTURES, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS.
- C. OBTAIN ALL NECESSARY ROUGH IN DATA AND DIMENSIONS FOR ALL FIXTURES, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS.
- D. MAINTAIN AMPLE HEADROOM CLEARANCES AND ACCESSIBILITY. MAINTAIN CEILING HEIGHTS.
- E. CONSTANTLY CHECK WORK OF OTHER TRADES TO PREVENT INTERFERENCE WITH THIS INSTALLATION.

3.03 PIPE INSTALLATION

- A. MAKE PIPE RUNS STRAIGHT AND TRUE. SPRINGING OR FORCING PIPING INTO PLACE IS NOT PERMITTED. INSTALL IN MANNER TO PREVENT ANY UNDUE STRAIN ON EQUIPMENT. MAKE JOINTS SMOOTH AND UNOBSTRUCTED INSIDE AND OUT, AND REAM PIPE ENDS THROUGHOGLY TO REMOVE BURRS. CONCEAL PIPING IN FINISHED PORTIONS OF THE BUILDINGS EXCEPT AS OTHERWISE DIRECTED OR INDICATED. CAP OR PLUG ENDS AND OPENINGS IN PIPE AND FITTINGS IMMEDIATELY TO EXCLUDE DIRT UNTL EQUIPMENT IS INSTALLED OR FINAL CONNECTIONS ARE MADE.
- B. INSTALL PIPING TO CLEAR BEAMS UNLESS SLEEVING IS INDICATED. CONSTANTLY CHECK WORK OF OTHER TRADES TO PREVENT INTERFERENCE WITH THIS INSTALLATION. OBTAIN APPROVAL FROM ARCHITECT IF CORING OR CUTTING OF CONCRETE WORK IS NECESSARY DUE TO FAILURE TO INSTALL REQUIRED SLEEVES PRIOR TO THE TIME OF CONCRETE POUR. COST OF CORING AND CUTTING WORK SHALL BE BORNE BY THE SUBCONTRACTOR.
- C. EXPOSED PLATED OR ENAMELED PIPE: MAKE CONNECTIONS TO EQUIPMENT WITH SPECIAL CARE. SHOW NO TOOL MARKS OR THREADS.
- D. DIELECTRIC UNIONS: MAKE CONNECTIONS BETWEEN TWO DISSIMILAR METAL PIPES WITH DIELECTRIC UNIONS.
- E. UNIONS: PROVIDE A UNION ON ONE SIDE OF EACH SHUTOFF VALVE, AT BOTH SIDES OF AUTOMATIC VALVES, AT EQUIPMENT CONNECTIONS AND ELSEWHERE INDICATED OR REQUIRED, UNLESS FLANGES ARE INDICATED.
- F. FLOOR, WALL AND CEILING PLATES: PROVIDE WHERE PIPES PIERCE FINISHED SURFACES.
- G. NOISE: INSTALL SOIL, WASTE, AND WATER PIPING IN A MANNER THAT PREVENTS ANY UNUSUAL NOISE FROM FLOW OF WATER UNDER NORMAL CONDITIONS.
- H. SHUTOFF VALVES: PROVIDE WHERE INDICATED AND REQUIRED FOR ADEQUATE CONTROL OF SYSTEMS AND FOR ISOLATION OF FIXTURE GROUPS AND EQUIPMENT.
- I. BURIED PIPING: INSTALL WITH MINIMUM 36 IN. COVERAGE UNLESS OTHERWISE INDICATED. LAY PIPING ACCURATELY TO GRADE WHERE INVERT ELEVATIONS ARE INDICATED. WHEN REQUIRED, PROVIDE THRUST BLOCKS PER MANUFACTURER'S RECOMMENDATIONS.
- J. EQUIPMENT AND MATERIALS: INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- K. ACCESSIBILITY: INSTALL WORK READILY ACCESSIBLE FOR NORMAL OPERATION, READING OF INSTRUMENTS, ADJUSTMENT, SERVICE, INSPECTION AND REPAIR. PROVIDE ACCESS PANELS WHERE INDICATED AND REQUIRED.
- L. PIPE JOINTS: MAKE SCREWED JOINTS WITH A MINIMUM AMOUNT OF COMPOUND APPLIED TO THE MALE THREAD ONLY. ALL JOINTS SHALL BE MADE PER CODE REQUIREMENTS.
- M. PROVIDE PIPE ISOLATION AT ALL HANGERS FOR NON-INSULATED MATERIALS.
- N. PIPING ROUGH-IN FOR FIXTURES: SUPPORT OR SECURE TO BUILDING CONSTRUCTION OF FIRMLY ANCHORED WASTE PIPING SO THAT PIPES CANNOT BE DISPLACED. DO NOT SECURE TO WALLS. USE OF MAKESHIFT DEVICES, SUCH AS ROPE, WIRE, TAPE, ETC. IS PROHIBITED.
- O. ALL DRAINAGE / WASTE PIPING SHALL BE SLOPED AT A MINIMUM OF 2%. UNLESS FIRST APPROVED BY THE LOCAL BUILDING DEPARTMENT.

3.04 HANGERS AND SUPPORTS

- A. HOLD HORIZONTAL PIPE RUNS FIRMLY IN PLACE USING APPROVED STEEL AND IRON HANGERS, SUPPORTS, AND/OR PIPE RESTS UNLESS OTHERWISE INDICATED. SUSPEND HANGER RODS FROM CONCRETE INSERTS OR FROM APPROVED BRACKETS, CLAMPS OR CLIPS. HANG PIPES INDIVIDUALLY OR IN GROUPS IF SUPPORTING STRUCTURE IS ADEQUATE TO SUPPORT WEIGHT OF PIPING AND FLUID. EXCEPT FOR BURIED PIPING, HANG OR SUPPORT PIPE RUNS SO THAT THEY MAY EXPAND OR CONTRACT FREELY WITHOUT STRAIN TO PIPE OR EQUIPMENT.
 1. HORIZONTAL STEEL PIPING: PROVIDE HANGERS OR SUPPORTS EVERY 10 FT. EXCEPT EVERY 8 FT. FOR PIPING 1-1/4 IN. AND SMALLER.
 2. HORIZONTAL COPPER TUBING: FOR 2 IN. DIAMETER AND OVER, PROVIDE HANGERS EVERY 10 FT.; FOR 1-1/2 IN. DIAMETER AND SMALLER, EVERY 6 FT.
 3. HORIZONTAL CAST-IRON HUB AND SPIGOT PIPING: PROVIDE HANGERS OR SUPPORTS AT EACH HUB.
 4. HORIZONTAL CAST-IRON NO-HUB PIPING: PROVIDE HANGERS OR SUPPORTS AT EACH SIDE OF NO-HUB FITTINGS. PROVIDE ANTI-SEPARATION BRACING AT EACH 90 DEGREE CHANGE OF DIRECTION.
 5. VERTICAL PIPING: SUPPORT AT FLOOR WITH IRON PIPE CLAMPS.
- B. BRANCHES: PROVIDE SEPARATE HANGERS OR SUPPORTS FOR BRANCH LINES 6 FT. OR MORE IN LENGTH.
- C. SOUND AND ELECTROLYSIS ISOLATORS: PROVIDE AT ALL HANGERS AND SUPPORTS FOR HOT AND COLD DOMESTIC WATER LINES. SECURLEY ATTACH PIPE TO WALLS, STUDS, ETC. ALL SUCH PIPING ISOLATED FROM STRUCTURE BY "TRISOLATORS".

3.05 CORROSION PREVENTION

MAKE JOINT BETWEEN CUPROUS AND FERROUS MATERIALS WITH APPROVED NYLON INSULATING COUPLINGS. SEPARATE CONTACT SURFACES OF DISSIMILAR METALS WITH NON-CONDUCTING COATING OR SHEET.



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PLUMBING
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P0.3



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PART 3 – EXECUTION (CONT.)

3.08 CLEANOUTS

- A. PROVIDE CLEANOUTS WHERE INDICATED AND REQUIRED, UNLESS OTHERWISE INDICATED. CLEANOUTS SHALL BE ACCESSIBLE WITH EXTENSIONS TO GRADE, TO OUTSIDE OF BUILDINGS, OR TO FLOORS ABOVE AS INDICATED OR REQUIRED. DO NOT LOCATE CLEANOUTS IN PUBLIC LOBBIES AND PUBLIC CORRIDORS UNLESS APPROVED BY ARCHITECT.
- B. MEMBRANES: WHERE WATERPROOFING MEMBRANE OCCURS UNDER FLOOR, BRING MEMBRANE TO CLEANOUT WITHOUT PUNCTURING, AND PERMANENTLY ANCHOR TO INTEGRAL ANCHORING FLANGE WITH A HEAVY CAST-IRON CLAMPING COLLAR AND RUSTPROOFED BOLTS.
- C. COVERS: SET CLEANOUT COVERS WITH ALL FINISHED WALL, FLOOR OR GRADE. IN ALL CASES SECURELY ANCHOR BY MEANS OF INTEGRAL LUGS AND BOLTS. WHERE SURFACING MATERIAL SUCH AS RESILIENT COVERING IS SPECIFIED, ASCERTAIN THICKNESS BEING USED AND SET CLEANOUT TOP SO FINISHED FLOOR IS SMOOTH.
- D. USE ACORN 3500 THREAD COMPOUND.

3.07 ACCESS BOXES AND PANELS

- A. PROVIDE VALVE BOXES FOR VALVES LOCATED BELOW GRADE. PROVIDE METAL ACCESS PANELS OF SIZE AND TYPE HEREINBEFORE SPECIFIED FOR VALVES OR SHOCK ABSORBERS LOCATED IN CONCEALED AREAS.
- B. ACCESS BOXES AND PANELS: SET FLUSH WITH FINISHED WALL, FLOOR OR CEILING. THOSE IN FINISHED WALLS SHALL HAVE DOOR OR PLATE REMOVED DURING CONSTRUCTION OR BE OTHERWISE SUITABLY COVERED TO PROTECT FINISH.
- C. OUTSIDE GENERAL SERVICE ACCESS BOXES: PROVIDE WITH METAL, ASBESTOS CEMENT, OR CLAY PIPE SLEEVE EXTENSIONS WHERE ADDED DEPTH IS NECESSARY. DO NOT LOCATE BOXES IN PUBLIC WALKS, DRIVEWAYS OR COVERED PASSAGES UNLESS INDICATED.

3.08 WRAPPING FOR BURIED STEEL AND COPPER PIPING

- A. ALL BURIED STEEL PIPE SHALL BE FACTORY COATED WITH PLEXCO 20 MIL HIGH DENSITY POLYETHYLENE COATING (YELLOW COLOR). FINISHED COATING SHALL HAVE CONTINUOUS IMPRINTING OF COATING TYPE AND APPLICATOR AND PIPE TYPE AND MANUFACTURER. ALL FITTINGS AND FIELD JOINTS OF BURIED STEEL PIPING SHALL BE CLEANED, PRIMED THEN FULLY PROTECTED BY WRAPPING WITH TWO SEPARATE WRAPPINGS (EACH HALF LAPPED) OF 0.010 X2 IN. WIDE PRESSURE SENSITIVE POLYVINYL TAPE EQUIVALENT TO JOHNSMANVILLE "TRANTEX". ALL FITTING AND JOINT WRAPPING SHALL OVERLAP PIPE WRAPPING A MINIMUM OF 2 IN.
- B. AFFIDAVIT: DELIVER COATED PIPE TO JOBSITE ACCOMPANIED BY APPLICATOR'S AFFIDAVIT CERTIFYING THAT WRAPPED PIPE HAS BEEN GIVEN HIGH VOLTAGE HOLIDAY DETECTOR TEST AND THAT PIPE WAS FREE OF HOLIDAYS WHEN PIPE WAS SHIPPED FROM APPLICATOR'S YARD.
- C. FIELD JOINTS: TEST FIELD APPLICATIONS FOR HOLIDAYS BY A HIGH VOLTAGE HOLIDAY TEST METHOD IN ARCHITECT'S PRESENCE.
- D. DAMAGE: HANDLE WRAPPED PIPING WITH EXTREME CARE TO AVOID DAMAGE. REPAIR AND RETEST MARRED OR DAMAGED PIPE WRAPPING.
- E. INSTALL CATHODIC PROTECTION FOR STEEL OR FERROUS PIPING PER CORROSION ENGINEER'S RECOMMENDATIONS AND/OR APPLICATOR CONTRACTOR FAMILIAR WITH CATHODIC PROTECTION HAVING A MINIMUM OF 5 YEARS EXPERIENCE IN THE FABRICATION AND INSTALLATION OF CATHODIC PROTECTION.
- F. COPPER TUBING, PIPE WRAP SAME AS FOR FIELD WRAP STEEL FITTINGS, NO HOLIDAY TEST REQUIRED. BACKFILL WITH ALKALIZED CLEAN SAND.
- G. BACKFILL STEEL AND COPPER PIPING WITH CLEAN ALKALIZED SAND (1/2 SACK LIME PER CUBIC YARD OF SAND) A MINIMUM OF 4 INCHES ALL AROUND PIPE AND FITTINGS.

3.09 PROTECTION FOR UNDERGROUND DUCTILE AND CAST-IRON PIPE AND FITTINGS
WRAP ALL PIPE AND FITTINGS WITH 10 MIL PVC PIPE TAPE AND PRIME PER MANUFACTURER'S DIRECTIONS, OR INSTALL IN 8 MIL POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH ANSI/AWWA STANDARD C105/A215-82. BED AND BACKFILL WITH CLEAN ALKALIZED SAND.

3.10 EXCAVATION AND BACKFILLING

PERFORM EXCAVATION AND BACKFILLING REQUIRED WORK UNDER THIS SECTION UNLESS OTHERWISE SPECIFIED. CONFORM TO REQUIREMENTS OF DIVISION 2 AND OF PUBLIC AUTHORITIES HAVING JURISDICTION.

3.11 SPECIALTY ITEMS

INSTALL AS INDICATED ON THE DRAWINGS, AS HEREIN SPECIFIED, AND AS RECOMMENDED BY MANUFACTURER.

3.12 STERILIZATION

STERILIZE EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM WITH LIQUID CHLORIDE OR HYPOCHLORIDE BEFORE ACCEPTANCE FOR OPERATION IN ACCORDANCE WITH AWWA C601, "STANDARD FOR DISINFECTING WATER MAINS" WORK SHALL BE DONE BY CONTRACTOR AND, UNLESS OTHERWISE REQUIRED BY PUBLIC AUTHORITIES HAVING JURISDICTION, SHALL CONFORM TO THE FOLLOWING:

- A. MATERIALS
 - 1. LIQUID CHLORINE: U.S. ARMY SPECIFICATION 4-1.
 - 2. HYPOCHLORIDE: LIQUID SHALL CONFORM TO FED. SPEC. O-C-11RA (INT. 4).
- B. METHOD: AMOUNT OF CHLORINE SHALL PROVIDE A DOSAGE OF 50 PPM MINIMUM. INTRODUCE CHLORINATING MATERIALS INTO LINES AND DISTRIBUTION SYSTEM IN APPROVED MANNER. AFTER A CONTACT PERIOD OR 24 HOURS MINIMUM DURING WHICH PERIOD CHLORINE RESIDUAL SHALL BE MAINTAINED AT 5 PPM MINIMUM, FLUSH OUT SYSTEMS WITH CLEAN WATER UNTIL RESIDUAL CONTENT IS NOT GREATER THAN 0.2 PPM. FLUSH ENTIRE SYSTEM OPEN AND CLOSE VALVES IN LINES BEING STERILIZED SEVERAL TIMES DURING CONTACT PERIOD.
- C. TEST REPORTS: FURNISH ONE COPY OF TEST REPORT OF COMPLETE AND ADEQUATE STERILIZATION TO ARCHITECT BEFORE FINAL ACCEPTANCE OF WORK. CERTIFICATES SHALL BEAR SIGNATURE OF AN OFFICIAL OF LABORATORY RESPONSIBLE FOR TEST. COST OF TESTING LABORATORY SERVICES SHALL BE INCLUDED IN THIS SUBCONTRACT.

3.13 TESTS

- A. PERFORM TESTS TO ARCHITECT'S SATISFACTION. MAKE TESTS IN PRESENCE OF ARCHITECT AND AT A TIME SUITABLE TO HIM IF REQUESTED. FURNISH NECESSARY LABOR AND EQUIPMENT AND BEAR COSTS FOR TESTING. COST OF REPLACING AND/OR REPAIRING DAMAGE RESULTING THEREFROM SHALL BE BORNE BY THIS CONTRACTOR. SHOULD THE CONTRACTOR REFUSE OR NEGLECT TO MAKE TESTS NECESSARY TO SATISFY THE ARCHITECT THAT REQUIREMENT OF SPECIFICATIONS AND DRAWINGS ARE MET, SUCH TESTS MAY BE MADE BY AN INDEPENDENT TESTING COMPANY AND THE CONTRACTOR CHARGED FOR ALL EXPENSES.
- B. HYDROSTATIC TESTS: MAKE BY COMPLETELY FILLING PIPING SYSTEM WITH WATER AND ELIMINATING ACCUMULATIONS OF AIR SO THAT LEAKAGE, NO MATTER HOW SMALL, WILL BE APPARENT ON TESTING GAUGE IMMEDIATELY. MAINTAIN PRESSURE UNTIL PIPE UNDER TEST HAS BEEN EXAMINED, BUT IN NO CASE LESS THAN 24 HOURS. TEST SYSTEMS AT THE FOLLOWING PRESSURE:

SYSTEM	TEST PRESSURE
DOMESTIC COLD WATER	150 PSIG
DOMESTIC HOT WATER	150 PSIG
- C. SANITARY SOIL, WASTE, VENT SYSTEM TESTS: BEFORE INSTALLATION OF FIXTURES, CAP END OF SYSTEM AND FILL LINES WITH WATER TO 10 FT. ABOVE THE SECTION BEING TESTED. (INCLUDING VENTS) AND ALLOW TO STAND FOR AT LEAST FIFTEEN (15) MINUTES BEFORE INSPECTION STARTS. MAKE TESTS IN SECTIONS IF NECESSARY OR CONVENIENT. HOWEVER, INCLUDE INTERCONNECTIONS BETWEEN NEW SECTIONS AND PREVIOUSLY TESTED SECTIONS IN THE NEW TEST.
- D. ROOF DRAINAGE SYSTEM: TEST AS SPECIFIED FOR SANITARY SYSTEM.
- E. GAS SYSTEMS: TEST GAS SYSTEM WITH COMPRESSED AIR AT 10 PSI FOR SIX HOURS OR LONGER AS DIRECTED BY THE ADMINISTRATIVE AUTHORITY TO PROVIDE A TIGHT SEAL WITHOUT LEAKS. USE PRESSURE RECORDER TO RECORD PRESSURE OF ALL LINES FOR THE DURATION OF TEST.
- F. REPAIR ALL LEAKAGES AND RETEST AS REQUIRED.

3.14 ADJUSTING

UPON COMPLETION OF WORK AND AFTER CLEANING OF SYSTEM, FIXTURES AND EQUIPMENT, AND AUTOMATIC PARTS; PLUMBING SYSTEM SHALL BE CAREFULLY ADJUSTED FOR NORMAL OPERATION. ALL FLUSH VALVES AND FIXTURE STOPS SHALL BE CHECKED FOR PROPER OPERATION AND FINAL ADJUSTMENT.

END OF SECTION



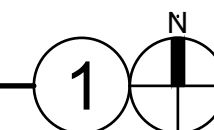
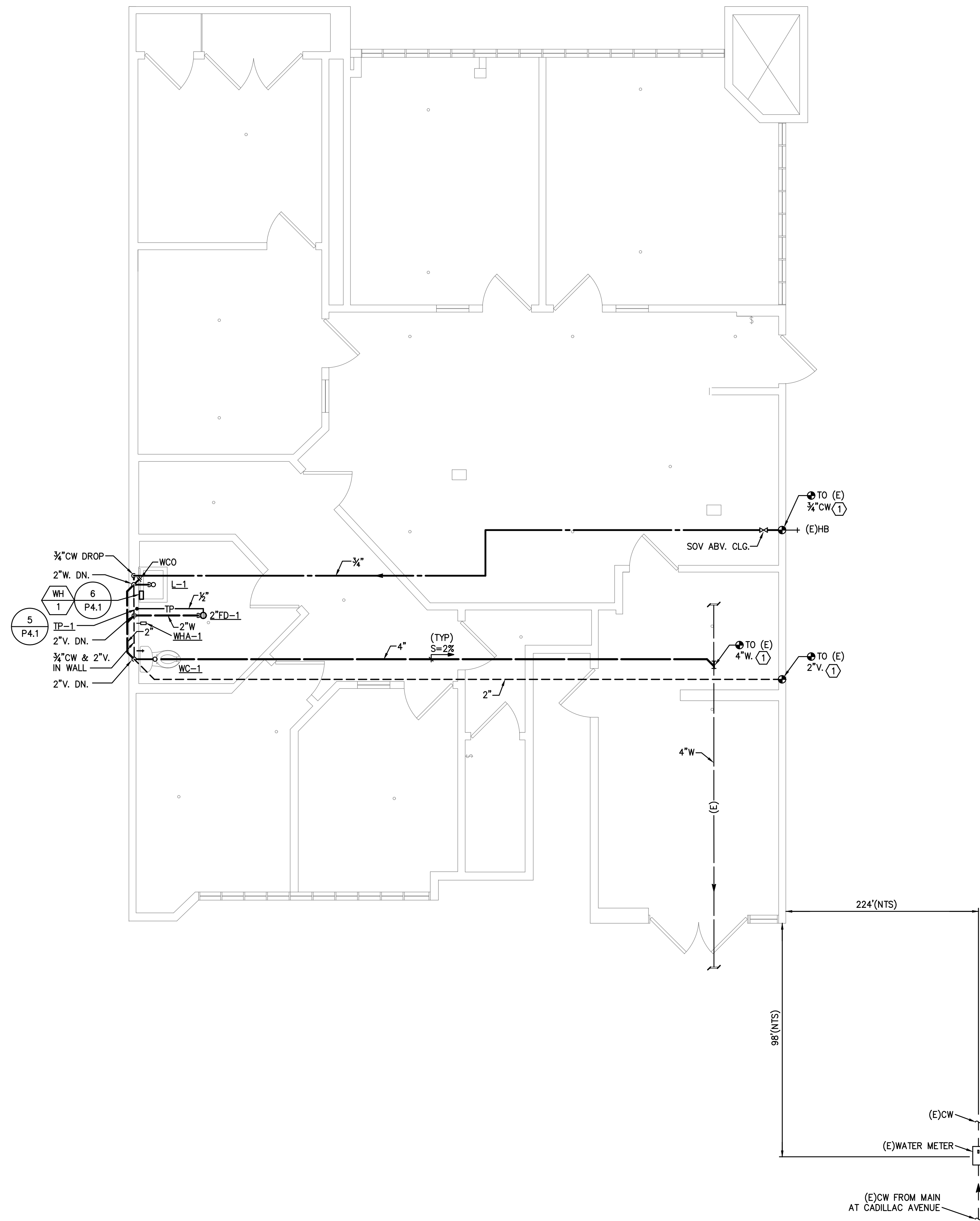
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24"x36" SCALE:	
PLOT DATE:	2022-08-18
CAD FILE:	
JOB NUMBER:	22-054
CHECKED:	R.F.
DRAWN:	K.P./T.Q.
STATUS:	CD SET

PLUMBING
SPECIFICATIONS

P0.4



PLAN NOTES

① CONTRACTOR TO VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.



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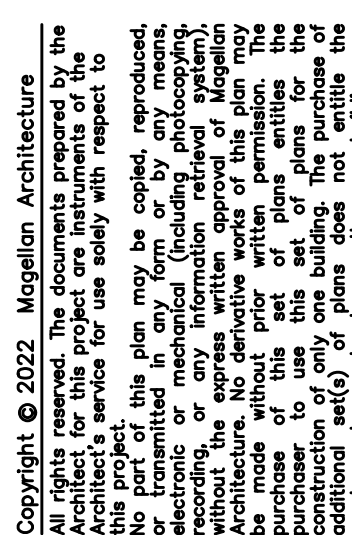
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PLUMBING
FLOOR PLAN
P2.1



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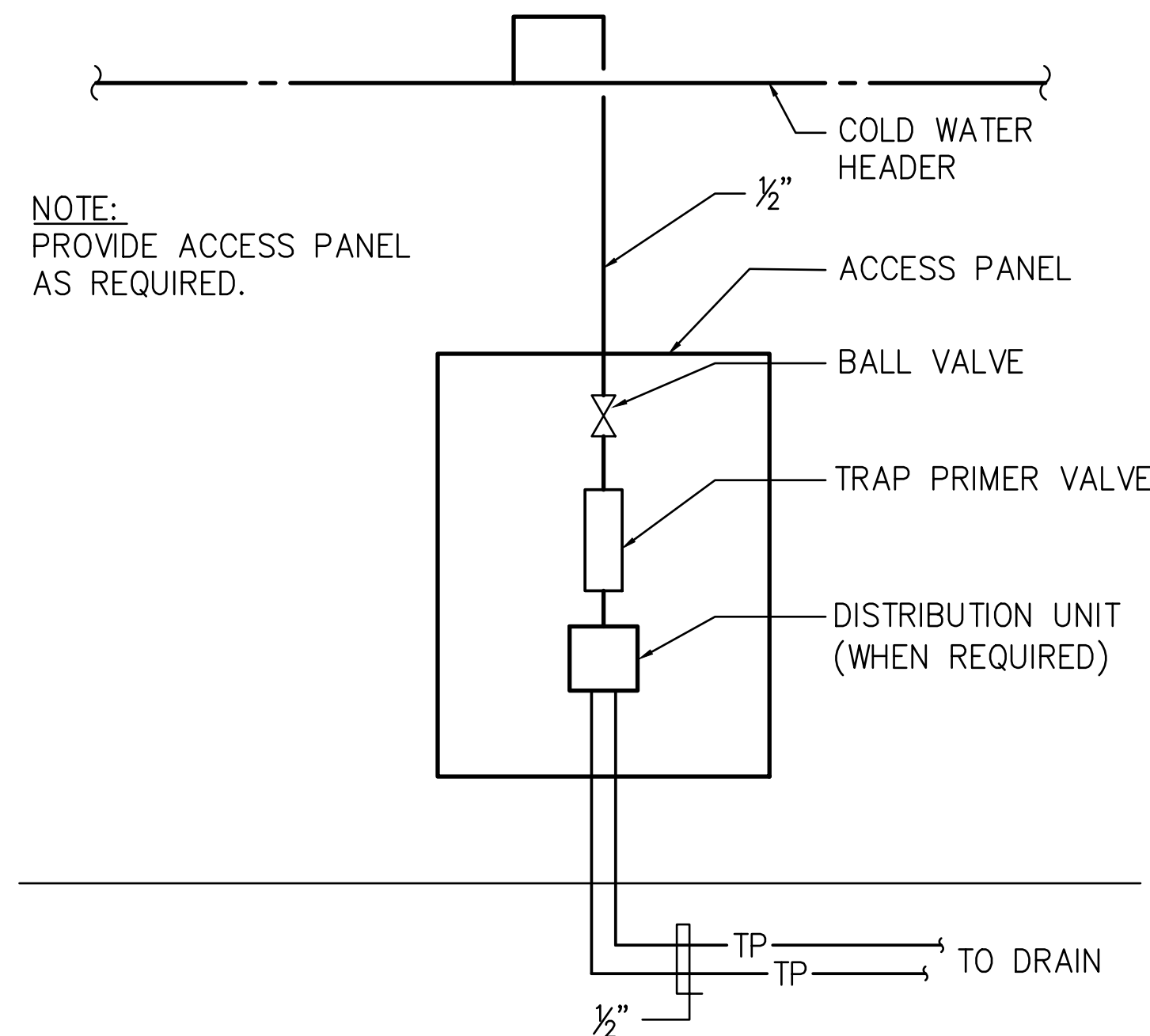
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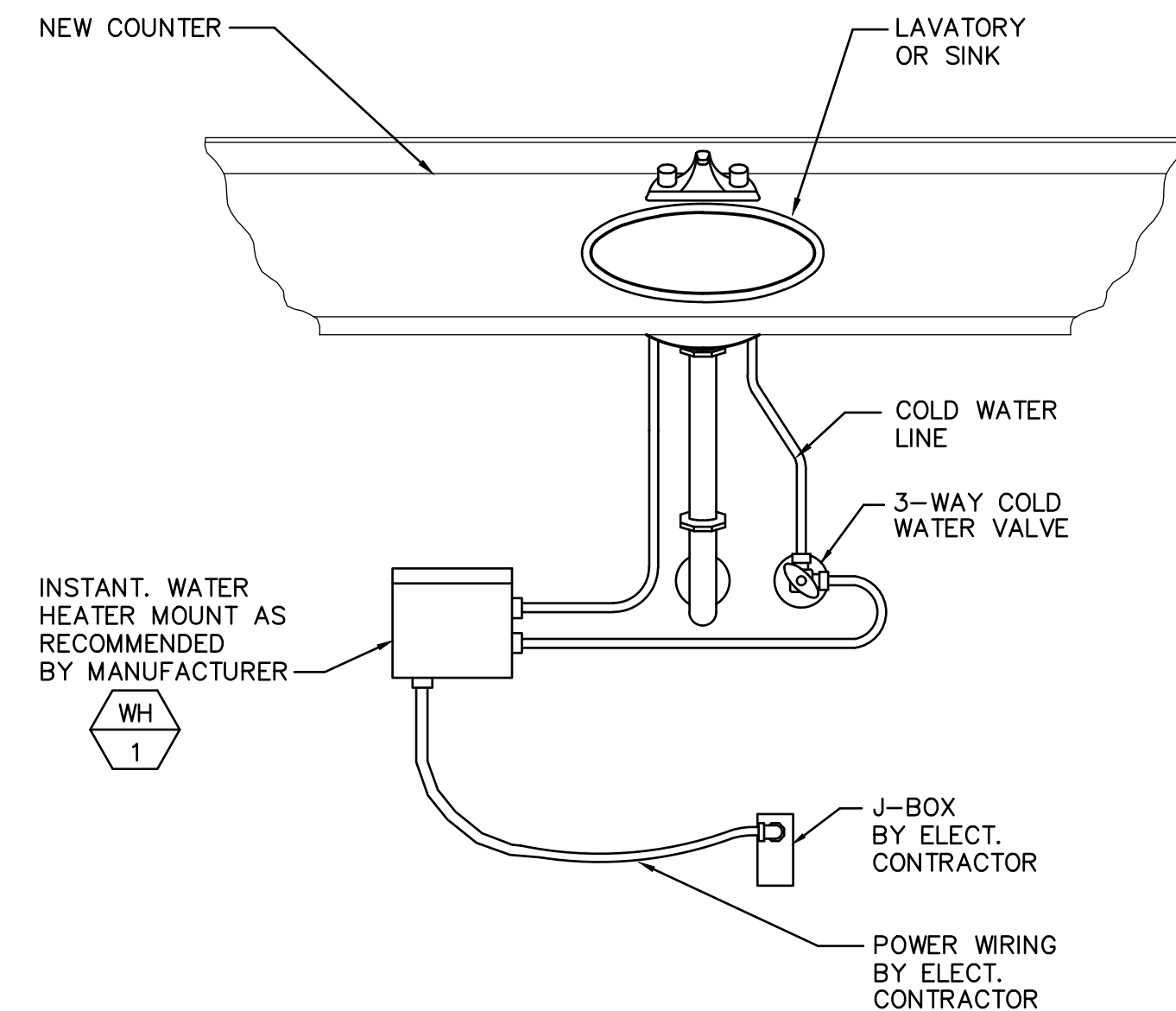
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PLUMBING DETAILS

P4.1



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