

STONEBRIDGE COMMUNITY CHURCH

4832 COCHRAN STREET
SIMI VALLEY, CA 93063



VISION | EXECUTED

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PROJECT NAME
STONEBRIDGE COMMUNITY
CHURCH
4832 COCHRAN ST
SIMI VALLEY CA 93063

DRAWING NAME
LEGEND, NOTES & SPECIFICATIONS

RP PROJECT NUMBER
16-299

SCALE
N.T.S.

DRAWING NUMBER

P1.0

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ISSUE PLAN CHECK SET - JUNE 23, 2017	
REVISION HISTORY	
REV 1	PC SET 09/06/2017

SPECIFICATIONS	
<p>PART 1 - GENERAL:</p> <ol style="list-style-type: none"> THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, EQUIPMENT, APPURTENANCES, AND OTHER CONTRACTUAL EXPENSES REQUIRED FOR THE COMPLETE INSTALLATION OF THE PLUMBING WORK TO THE SATISFACTION OF THE OWNER, ENGINEER AND ARCHITECT. ALL ROOF MOUNTED EQUIPMENT WEIGHING OVER 500 LBS REQUIRES BUILDING AND STRUCTURAL PLAN CHECK APPROVAL. VERIFY EQUIPMENT SIZE, LOCATION, WEIGHT, AND ROOF OPENING WITH STRUCTURAL ENGINEER. THE PLUMBING WORK SHALL COMPLY WITH T24 PART 5 CPC-2013, SIMI VALLEY BUILDING AND SAFETY, AND BE INSTALLED IN ACCORDANCE WITH ALL LEGALLY CONSTITUTED AUTHORITIES AND CODES HAVING JURISDICTION. ALL FIXTURES IN DISABLED ACCESS RESTROOMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA DISABLED ACCESS CODE AND LOCAL DISABLED ACCESS CODES HAVING JURISDICTION. ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 1115B. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC TABLE 1115B-1. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, APPARATUS, ACCESSORIES (I.E., THE ENTIRE INSTALLATION) AS FURNISHED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY ITEM WHICH MAY PROVE DEFECTIVE WITHIN ONE (1) YEAR FROM THE DATE THE APPARATUS IS ACCEPTED AND PLACED IN OPERATION WITHOUT ANY ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND INSPECTIONS REQUIRED TO COMPLETE THE PLUMBING WORK. THE DRAWING INDICATES IN DIAGRAMMATIC FORM ARRANGEMENTS DESIRED FOR PRINCIPAL APPARATUS, PIPING, ETC., AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY. BEFORE PROCEEDING WITH ANY WORK, CHECK AND VERIFY EXISTING CONDITIONS, DIMENSIONS, SIZES AND ASSUME FULL RESPONSIBILITY FOR FITTING-IN OF EQUIPMENT AND MATERIALS, (INCLUDING PROVISION FOR OFFSETS, BENDS, ELBOWS, ETC.). BEFORE SUBMITTING BIDS FOR THE WORK, THE CONTRACTOR SHALL MAKE A THOROUGH FIELD SURVEY OF THE WORK TO DETERMINE ANY EXISTING INTERFERENCES THAT MAY AFFECT THE INSTALLATION OF THE WORK. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR IS DEEMED TO HAVE MADE FIELD SURVEY AND HAS ACCEPTED THE EXISTING CONDITIONS THAT MAY AFFECT HIS WORK. APPOINTMENTS FOR FIELD SURVEY SHALL BE MADE THROUGH THE OWNER. SHOP DRAWINGS AND MATERIAL LISTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER FOR REVIEW AT LEAST THIRTY (30) DAYS PRIOR TO THE START OF ANY WORK. NO WORK INDICATED ON ANY OF THE PLANS OR SHOP DRAWINGS SHALL BE PERFORMED, UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, TRENCHING BACKFILLING AND PATCHING TO COMPLETE THE INSTALLATION OF THE PLUMBING WORK. ALL EXPOSED FINISHED AREAS THAT ARE DAMAGED AS A RESULT OF THIS WORK SHALL BE REPAIRED TO MATCH THE EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. VERIFY SIZES AND LOCATIONS OF ALL OPENINGS OR HOLES, SAWCUT OR CORE DRILLED THROUGH EXISTING BUILDING STRUCTURE WITH STRUCTURAL ENGINEER. THE CONTRACTOR SHALL CONSIDER ALL CONCRETE ROOF OR FLOOR SLABS TO BE PRESTRESSED CONCRETE CONSTRUCTION UNLESS OTHERWISE NOTED. SUCH ROOF OR FLOOR SLABS MAY BE REQUIRED TO BE X-RAYED OR OTHERWISE VERIFIED BY STRUCTURAL ENGINEER BEFORE ANY SAWCUTTING OR CORE DRILLING IS PERFORMED. THE PLUMBING DRAWINGS ONLY INDICATE IN DIAGRAMMATIC FORM, THE APPROXIMATE SIZE AND LOCATION OF OPENINGS OR HOLES TO BE MADE IN BUILDING STRUCTURE TO PROVIDE FOR EQUIPMENT AND PIPING. THE ACTUAL SIZE AND LOCATION OF OPENINGS OR HOLES TO BE MADE IN BUILDING STRUCTURE SHALL CONFORM TO THE STRUCTURAL ENGINEER'S REQUIREMENTS WITHOUT EXCEPTION. ALL CONSTRUCTION SITES SHALL BE PROPERLY PROTECTED WITH BARRICADES, WARNING FLAGS, FENCING, AND LIGHTS AS REQUIRED BY CODE AND THE OWNER'S SECURITY DEPARTMENT. PROVIDE SHORING, BRACING, AND ACCESS LADDERS AS REQUIRED BY CODE. TAKE EXTRA CARE TO INSTRUCT ALL PERSONNEL ON SAFETY PROCEDURES. TAKE CARE TO AVOID DAMAGE TO ADJACENT PIPING AND ELECTRIC SERVICES. ALL UTILITY SHUT-DOWNS SHALL BE SCHEDULED AT LEAST TWO (2) DAYS IN ADVANCE THROUGH THE OWNER. PROVIDE CONTINUOUS "FIRE WATCH GUARD" TO ALL AREAS AFFECTED BY SHUT-DOWN OF ANY FIRE PROTECTION WATER SERVICE. THE CONTRACTOR'S OPERATION SHALL CAUSE NO UNNECESSARY INCONVENIENCE TO THE OWNER'S PREMISES. THE ACCESS RIGHTS TO THE PUBLIC SHALL BE CONSIDERED AT ALL TIMES. THE CONTRACTOR SHALL SUBMIT TWO (2) COMPLETE SETS OF AS-BUILT DRAWINGS, AND OPERATIONAL AND MAINTENANCE MANUALS TO THE OWNER AS PERMANENT RECORDS WITHIN THIRTY (30) DAYS OF THE SUCCESSFUL COMPLETION OF THE WORK. <p>PART 2 - MATERIALS</p> <ol style="list-style-type: none"> PLUMBING FIXTURES SHALL BE AS SCHEDULED ON PLANS. PIPING SHALL BE PROVIDED AS FOLLOWS: <ul style="list-style-type: none"> A. WASTE, CAST IRON B. VENT, 1-1/2" AND LESS (ABOVE GROUND) GALVANIZED, ALL OTHERS CAST IRON C. COND. DRAIN, COPPER TYPE "M" D. HOT AND COLD ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS FOR 95-5 SOLDER. VALVES AND PIPING SPECIALTIES SHALL BE PROVIDED AS FOLLOWS: <ul style="list-style-type: none"> A. BALL VALVES SHALL BE 2-PIECE BRASS OR BRONZE BODY WITH STAINLESS STEEL BALL, TFE SEAT, AND LEVER OPERATOR FOR SCREWED OR SOLDERED CONNECTION BY NIBCO. PROVIDE LEVER ARM EXTENSION TO CLEAR INSULATION ON ALL HOT WATER SERVICE VALVES. B. WATER HAMMER ARRESTORS SHALL BE J.R. SMITH HYDROTROL. C. CHECK VALVES 2-INCHES AND SMALLER FOR NON-PUMP SERVICE SHALL BE "Y" PATTERN BRONZE BODY, SWING LIFT, METAL TO METAL SEAT, FOR SCREWED CONNECTION BY WATTS. D. DIELECTRIC UNIONS SHALL BE PROVIDED TO JOIN DISSIMILAR MATERIALS. DIELECTRIC UNIONS SHALL BE WATTS SERIES 3000 SCREWED OR SOLDERED CONNECTION. E. ACCESS DOORS SHALL BE PROVIDED FOR ACCESS TO ITEMS REQUIRING OCCASIONAL OR REGULAR SERVICE IN FINISHED WALLS OR CEILINGS. ACCESS DOORS SHALL BE 12 X 12-INCHES MINIMUM BY ELMDOOR. F. ESCUTCHEONS SHALL BE CHROME PLATED BRASS OR STAINLESS STEEL. G. WATER ANGLE STOPS SHALL BE CHROME PLATED BRASS BODY WITH NON-REMovable KEY BY BRASS CRAFT. 	<p>4. HOT WATER PIPING SHALL BE INSULATED WITH OWENS-CORNING 25 AS/SSL SECTIONAL FIBERGLASS WITH KRAFT PAPER JACKET, 1-1/2" INCH THICK, ELBOWS AND OTHER FITTINGS SHALL BE INSULATED WITH SECTIONAL FIBERGLASS WITH FITTED PVC FITTING COVERS BY THE SAME MANUFACTURER, PROVIDE CELLULAR GLASS OR CORK INSERTS BETWEEN BANDING HANGERS AND PIPE.</p> <p>5. PROVIDE PIPE HANGERS TO SUPPORT PIPING. PIPE HANGER CONSTRUCTION MATERIALS, ATTACHMENT TO THE STRUCTURE, AND OVERALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, IAPMO, AND SMACNA "GUIDELINES FOR THE RESTRAINT OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS". PROVIDE DIELECTRIC SPACERS FOR USE WITH COPPER PIPING.</p> <p>6. 10 FEET OF COPPER PIPING UNDERGROUND AT BUILDING SUPPLY TO CONFORM TO N.E.C. GROUNDING ELECTRODE REQUIREMENTS.</p> <p>PART 3 - EXECUTION:</p> <ol style="list-style-type: none"> PROVIDE PIPE HANGERS TO SUPPORT PIPING. 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PROVIDE SIGNAGE FOR SAFETY HAZARDS OR EMERGENCY SHUT-OFF VALVES. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH CAL-OSHA, FIRE DEPARTMENT, AND ALL OTHER CODE ENFORCEMENT AGENCIES. SELF ADHESIVE TAPE MARKERS ARE NOT ACCEPTABLE. PIPING AND COMPONENTS SHALL BE SPACED SO THAT A THREADED PIPE FITTING MAY BE REMOVED BETWEEN ADJACENT PIPES. NOT LESS THAN 1/2-INCH OF CLEAR SPACE SHALL EXIST BETWEEN THE FINISHED SURFACE AND OTHER WORK AND BETWEEN FINISHED SURFACE OF PARALLEL ADJACENT PIPING. PIPE ENDS SHALL BE REAMED BEFORE JOINT CONNECTIONS ARE MADE. SCREWED JOINTS SHALL BE MADE UP WITH TFE JOINT COMPOUND OR TEFLON TAPE. NOT MORE THAN THREE THREADS SHALL SHOW AFTER THE JOINT IS MADE UP. JOINT COMPOUND OR TAPE SHALL BE APPLIED TO THE MALE THREADS ONLY. TAKE CARE TO PREVENT JOINT COMPOUND FROM REACHING THE INTERIOR OF THE PIPE. ESCUTCHEONS SHALL BE PROVIDED AT ALL PENETRATIONS INTO FINISHED AREAS, WHERE FINISHED AREAS ARE SEPARATED BY PARTITIONS, ESCUTCHEONS SHALL BE PROVIDED ON BOTH SIDES OF THE PARTITION. FOR INSULATED PIPES, THE ESCUTCHEONS SHALL BE LARGE ENOUGH TO FIT AROUND THE INSULATION. ALL ESCUTCHEONS SHALL BE FIRMLY ANCHORED WITH SETSCREWS. ALL HOT WATER PIPING SUBJECT TO EXPANSION AND CONTRACTION SHALL BE INSTALLED WITH EXPANSION LOOPS, SWING JOINTS, OR OTHER APPROVED METHODS OR DEVICES. BRANCH LINES FROM MAINS SUBJECT TO EXPANSION OR CONTRACTION SHALL HAVE A SWING JOINT AT THE CONNECTION TO THE MAIN. ALL LINES SUBJECT TO EXPANSION AND CONTRACTION SHALL BE PROVIDED WITH ANCHORS TO RESTRICT MOVEMENT, EXCEPT IN THE DESIRED DIRECTION. TEST ALL HOT AND COLD WATER PIPING HYDROSTATICALLY AT 125 PSI FOR 8-HOURS WITH NO LOSS OF PRESSURE. TEST DRAINAGE AND VENT PIPING HYDROSTATICALLY BY TIGHTLY CLOSING ALL OPENINGS AND APPLYING A 10-FOOT HEAD OF WATER PRESSURE FOR 2-HOURS, MEASURED AT THE HIGHEST POINT OF THE VENT SYSTEM. RESEAL AND RETEST ALL PIPING SYSTEM UNTIL THEY PASS. AT THE COMPLETION OF THE WORK, ALL PARTS OF THE INSTALLATION SHALL BE THOROUGHLY CLEANED. ALL FIXTURES, VALVES, PIPES, AND FITTINGS SHALL BE CLEANED OF GREASE, METAL CUTTINGS, SLUDGE, AND OTHER DEBRIS THAT MAY HAVE ACCUMULATED DURING INSTALLATION. ALL WATER PIPING SHALL BE STERILIZED WITH A SOLUTION OF CHLORINE AND WATER. THE SOLUTION SHALL NOT CONTAIN LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. THE SOLUTION SHALL BE HELD FOR NOT LESS THAN 8-HOURS. AFTER SUCCESSFUL STERILIZATION, THE PIPING SHALL BE REPEATEDLY FLUSHED WITH WATER UNTIL ALL TRACES OF CHLORINE TASTE AND ODOR HAVE BEEN REMOVED. AFTER TESTS HAVE BEEN COMPLETED AND SURFACES CLEANED, INSULATION SHALL BE APPLIED ON HOT WATER PIPING, EXCEPT FOR CHROME PLATED OR OTHER HOT WATER EXPOSED SUPPLIES TO FIXTURES. EXPOSED HOT AND DRAIN PIPING BELOW ADA COMPLIANT LATRORIES AND SINKS SHALL BE WRAPPED WITH TRUEBRO HANDI LAV-GUARD #102W OR APPROVED EQUAL. VENT THROUGH ROOF SHALL TERMINATE VERTICALLY NOT LESS THAN 1-FOOT FROM ANY VERTICAL SURFACE AND NOT LESS THAN 10-FEET HORIZONTALLY OR AT LEAST 3-FEET ABOVE ANY WINDOW, DOOR, WATER DEVICES AND PIPING MATERIALS (DOMESTIC) SHALL COMPLY WITH LEAD-FREE ORDINANCE.

WATER PRESSURE CALCULATIONS																																																																							
WORSHIP AUDITORIUM (COPPER PIPING) <table border="1"> <tr> <td>(A) PRESSURE AVAILABLE, MINIMUM 86 PSI, MAXIMUM 96 PSI.</td> </tr> <tr> <td>(B) WATER HARDNESS: - GR/GAL</td> </tr> <tr> <td>(C) TOTAL FIXTURE UNITS: FLUSH VALVE 45.5 FU</td> </tr> <tr> <td>(D) WATER DEMAND:</td> </tr> <tr> <td>1. DOMESTIC 49 GPM</td> </tr> <tr> <td>2. IRRIGATION ON WITH SEPARATE METER - GPM</td> </tr> <tr> <td>3. A/C EQUIPMENT AND POOL (FU/GPM) - GPM</td> </tr> <tr> <td>4. TOTAL 49 GPM</td> </tr> <tr> <td> </td> </tr> <tr> <td>(E) PRESSURE LOSS THRU 1" METER: 8.4 PSI</td> </tr> <tr> <td>(F) STATIC PRESSURE (3FT X 0.432) 1.3 PSI</td> </tr> <tr> <td>(G) 2" PRESSURE REGULATING VALVE 6.0 PSI</td> </tr> <tr> <td>(H) REQUIRED RESIDUAL PRESSURE 25.0 PSI</td> </tr> <tr> <td>(I) STATIC HEAD = 17' X 0.432 = 7.3 PSI</td> </tr> <tr> <td>(J) TOTAL LOSSES 48.0 PSI</td> </tr> <tr> <td> </td> </tr> <tr> <td>(K) WATER PRESSURE AVAILABLE (MIN.), PRV SET AT 75 PSI 75.0 PSI</td> </tr> <tr> <td>(L) PRESSURE AVAILABLE FOR FRICTION (MIN.) = ITEM K - ITEM J = 75 PSI - 48 PSI 27.0 PSI</td> </tr> <tr> <td> </td> </tr> <tr> <td>(M) FRICTION LOSS THRU PIPES:</td> </tr> <tr> <td>1. TOTAL LENGTH 180 FT.</td> </tr> <tr> <td>2. FRICTION THRU FITTINGS = 180 FT X 25% = 45 FT.</td> </tr> <tr> <td>3. TOTAL 225 FT.</td> </tr> <tr> <td> </td> </tr> <tr> <td>(N) MAX. PRESSURE DROP, PSI/100 FT. ITEM M x 100 = 27 x 100 = 12.0 PSI ITEM N 225</td> </tr> </table>		(A) PRESSURE AVAILABLE, MINIMUM 86 PSI, MAXIMUM 96 PSI.	(B) WATER HARDNESS: - GR/GAL	(C) TOTAL FIXTURE UNITS: FLUSH VALVE 45.5 FU	(D) WATER DEMAND:	1. DOMESTIC 49 GPM	2. IRRIGATION ON WITH SEPARATE METER - GPM	3. A/C EQUIPMENT AND POOL (FU/GPM) - GPM	4. TOTAL 49 GPM	 	(E) PRESSURE LOSS THRU 1" METER: 8.4 PSI	(F) STATIC PRESSURE (3FT X 0.432) 1.3 PSI	(G) 2" PRESSURE REGULATING VALVE 6.0 PSI	(H) REQUIRED RESIDUAL PRESSURE 25.0 PSI	(I) STATIC HEAD = 17' X 0.432 = 7.3 PSI	(J) TOTAL LOSSES 48.0 PSI	 	(K) WATER PRESSURE AVAILABLE (MIN.), PRV SET AT 75 PSI 75.0 PSI	(L) PRESSURE AVAILABLE FOR FRICTION (MIN.) = ITEM K - ITEM J = 75 PSI - 48 PSI 27.0 PSI	 	(M) FRICTION LOSS THRU PIPES:	1. TOTAL LENGTH 180 FT.	2. FRICTION THRU FITTINGS = 180 FT X 25% = 45 FT.	3. TOTAL 225 FT.	 	(N) MAX. PRESSURE DROP, PSI/100 FT. ITEM M x 100 = 27 x 100 = 12.0 PSI ITEM N 225																																													
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LEGEND AND ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION
— — — — —	W	WASTE BELOW FLOOR
— — — — —	V	VENT
— — — — —	CW	COLD WATER
— — — — —	HW	COLD WATER
— — — — —	G	NATURAL GAS
— — — — —	SOV	SHUT-OFF VALVE
— — — — —	CO	CLEANOUT
— — — — —	FCO	FLOOR CLEANOUT
— — — — —	WCO	WALL CLEANOUT
— — — — —	P	PIPING ELBOW UP
— — — — —	C	PIPING ELBOW DOWN
— — — — —	CAP	CAP
— — — — —	PO	POINT OF CONNECTION
○ ○ ○ ○ ○	P.O.D.	POINT OF DEMOLITION/REMOVAL
ABV	ABOVE	
BEL	BELOW	
BD	BALCONY DRAIN	
CFH	CUBIC FEET PER HOUR	
CONC	CONCRETE	
DET	DETAIL	
DN	DOWN	
DS	DOWNSPOUT	
(E)	EXISTING	
FU	Fixture Unit	
GPM	GALLONS PER MINUTE	
(N)	NEW	
RI & C	ROUGH-IN AND CONNECT	
TDL	TOTAL DEVELOPED LENGTH	
Typ	TYPICAL	
VTR	VENT UP THRU ROOF	
WH	WATER HEATER	

ENERGY NOTES

- WATER HEATER MUST BE CERTIFIED BY THE MANUFACTURER AND LISTED BY THE STATE OF CALIFORNIA ENERGY COMMISSION.
- ELECTRIC FIRED WATER HEATER MUST HAVE A MINIMUM RECOVERY OR THERMAL EFFICIENCY OF 75%.
- STANDBY LOSS FOR WATER HEATER MUST COMPLY WITH THE REQUIREMENTS OF TITLE-24 STANDARDS.
- HOT WATER PIPING INSULATION LIST:

PIPE SIZE, INCHES	INSULATION THICKNESS, INCHES	(K=0.27 BTUH-IN/SQ FT-F OR LESS)
1/2, 3/4, 1	1	1-1/2
1-1/4 THRU 6		

- THE CALIFORNIA NON-RESIDENTIAL ENERGY CONSERVATION STANDARDS HAVE BEEN REVIEWED AND THE DESIGN, DRAWINGS, AND CALCULATIONS COMPLY SUBSTANTIALLY WITH THESE STANDARDS.

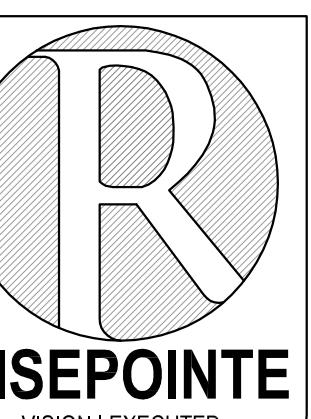
SHEET INDEX

SHEET NO.	DESCRIPTION
P1.1	LEGEND, NOTES & SPECIFICATIONS
P1.2	SCHEDULES
P2.1	FLC-1ST FLOOR PLUMBING PLAN
P2.2	FLC-2ND FLOOR PLUMBING PLAN
P2.3	FLC-ROOF PLAN
P2.4	FLC-1ST FLOOR PLUMBING ENLARGED PLAN
P3.1	WORSHIP AUDITORIUM - PLUMBING FLOOR PLAN
P3.2	WORSHIP AUDITORIUM - ROOF PLAN
P3.3	WORSHIP AUDITORIUM - PLUMBING ENLARGED PLAN
P4.1	PLUMBING RISER DIAGRAMS
P5.1	PLUMBING DETAILS

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PLAN CHECK CORRECTIONS 9/06/2017

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER AND MODEL NUMBER
WH 1	WATER HEATER	A.O. SMITH ENERGY SAVER "LOW BOY" MODEL DEN-30, 30 GAL, 20-1/2" DIA X 34-1/2" H, 4000/4000 WATTS, NON-SIMULTANEOUS OPERATION, 18 GAL/HR RECOVERY @ 90° TEMP. RISE, 400 LB, 208V, 3 PH. SET HOT WATER SUPPLY OUTLET TEMPERATURE AT 120° F.
TMV 1	THERMOSTATIC MIXING VALVE	BRADLEY, MODEL #SS9-3045, LEAD-FREE, ADJUSTABLE SET POINT, OUTLET TEMP. HIGH RANGE 100-150° F, SET AT 110° F.
XT 1	EXPANSION TANK	"AMTROL, INC." THERM-X-TROL MODEL NO. ST-5-C, 2 GAL.
PRV 1	PRESSURE REDUCING VALVE	ZURN/WILKINS, MODEL 500XLYSBR, 2", 49 GPM AND 6 PSI DROP SET AT 75 PSI.

Fixture Schedule

Fixture Number	Description
WC-1	WATER CLOSET AMERICAN STANDARD "COLONY" MODEL #751CA.101, 1.28 GPF, FLUSH TANK, FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, 2 BOLT CAP, 3251C.001R ELONGATED BOWL, 4192A.101R TANK, 15" RIM HEIGHT, SEAT OLSONITE #95, OPEN FRONT.
WC-2	WATER CLOSET (ADA COMPLIANT) AMERICAN STANDARD "COLONY RIGHT HEIGHT" MODEL #751AA.101, 1.28 GPF, FLUSH TANK, FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, 2 BOLT CAP, 16-1/2" RIM HEIGHT, SEAT OLSONITE #95, OPEN FRONT.
WC-3	WATER CLOSET AMERICAN STANDARD "MADERA FLOWISE" MODEL #3451.528, FLOOR MOUNTED, TOP SPUD, VITREOUS CHINA, ELONGATED BOWL, 1 1/2" TOP SPUD, 25 PSI WORKING PRESSURE, SEAT OLSONITE #95, OPEN FRONT.
WC-4	WATER CLOSET (ADA COMPLIANT) AMERICAN STANDARD "MADERA FLOWISE" MODEL #3043.528, FLOOR MOUNTED, TOP SPUD, VITREOUS CHINA, ELONGATED BOWL, 1 1/2" TOP SPUD, 25 PSI WORKING PRESSURE, SEAT OLSONITE #95, OPEN FRONT.
L-1	LAVATORY AMERICAN STANDARD "COMRADE" MODEL #0124.131, 206" X 18-1/4", WALL-HUNG, WHITE, VITREOUS CHINA, 1-1/4" TRAP & TAILPIECE, AMERICAN STANDARD "SELECTRONIC" MODEL #6055.104, BATTERY POWERED, SENSOR ACTIVATED, SINGLE HOLE FAUCET, 0.35 GPM, SOLID BRASS, BRASSCRAFT KTCR19X-C, LEAD FREE, 1/2" IPSX3/8 OD LOOSE KEY ANGLE STOP, COPPER 1/2" SWEAT X 1/2" MIP ADAPTER AT WALL, HOLDRITE 110-S-1/2 COPPER WATER SUPPLY SUPPORT, TEMP. @ MAX. 110°F
L-2	LAVATORY (ADA COMPLIANT) SAME AS L-1, EXCEPT INSTALL PER ADA COMPLIANT.
L-3	LAVATORY AMERICAN STANDARD "STUDIO CARRE" MODEL #0642.001, 16-3/8" X 16-3/8", COUNTERTOP, WHITE, VITREOUS CHINA, 1-1/4" TRAP & TAILPIECE, AMERICAN STANDARD "SELECTRONIC" MODEL #6055.104, BATTERY POWERED, SINGLE HOLE FAUCET, 0.35 GPM, SOLID BRASS, BRASSCRAFT KTCR19X-C, LEAD FREE, 1/2" IPSX3/8 OD LOOSE KEY ANGLE STOP, COPPER 1/2" SWEAT X 1/2" MIP ADAPTER AT WALL, HOLDRITE 110-S-1/2 COPPER WATER SUPPLY SUPPORT, TEMP. @ MAX. 110°F
L-4	LAVATORY (ADA COMPLIANT) SAME AS L-3, EXCEPT INSTALL PER ADA COMPLIANT.
U-1	URINAL (ADA COMPLIANT) AMERICAN STANDARD "PINTBROOK" MODEL #6002.503, VITREOUS CHINA, 3/4" INLET, 0.125 GPF, SLOAN ROYAL FLUSHMETER MODEL #186-0.125, 0.125 GPF.
S-1	ELKAY LUSTERTONE MODEL #ELU10AD SERIES SINK, SINGLE COMPARTMENT, 18-GAUGE STAINLESS STEEL, 3 FAUCET HOLES FOR CHICAGO FAUCET NO. 785-E3 HLITE COMBINATION WITH NO.117, 4" WRIST BLADE HANDLES, NO. GN1-A-E3 5-5/8" GOOSENECK SWING SPOUT, NO. E3 SOFTFLO OUTLET, ELKAY MODEL LK-35 BASKET STRAINER, ALL CHROME FINISH, IN-SINK-ERATOR GARBAGE DISPOSER MODEL #PRO 77, 1 HP, 120V-120-60HZ.
FD-1	FLOOR DRAIN J.R. SMITH FIGURE 2005Y-A FLOOR DRAIN WITH ADJUSTABLE HEAD, ROUND TOP, CAST IRON BODY AND FLASHING COLLAR ADJUSTABLE CHROME PLATED STRAINER, NO-HUB, 2" PIPE CONNECTION W/ TRAP PRIMER CONNECTION.
SS-1	SERVICE SINK AMERICAN STANDARD "FLORWELL" MODEL #7741.000, CORNER MODEL, FLOOR MOUNTED, 28"X28" SINGLE COMPARTMENT, ENAMELED CAST IRON, DRAIN MODEL #7721.038 WITH STRAINER AND SOCKET FOR 3" OUTLET, RIM GUARD MODEL #7745.611 BLACK VINYL, AMERICAN STANDARD FAUCET MODEL #8344.112, EXPOSED YOKE TOP BRACE, CAST BRASS WITH VACUUM BREAKER, STOPS IN SHANKS, J.R. SMITH OR ZURN STEEL PLATE MOUNTED FAUCET SUPPORT.
DF-1	DRINKING FOUNTAIN HAWKES MODEL # 1011, HI-LO, 18 GAUGE TYPE 304 STAINLESS STEEL, BARRIER FREE, WASTE STRAINER AND PUSH BUTTON POLISHED CHROME-PLATED BRASS, VANDAL-RESISTANT BUBBLER HEAD, DISABLED ACCESSIBLE (ADA).

Fixture Piping Schedule

Fixture Number	Description	W	V	T	CW	HW	Remarks
WC-1	WATER CLOSET	4"	2"	INT	3/4"	-	FLOOR MOUNTED, FLUSH TANK, 1.28 GPF.
WC-2	WATER CLOSET	4"	2"	INT	3/4"	-	FLOOR MOUNTED, FLUSH TANK, 1.28 GPF. ADA COMPLIANT
WC-3	WATER CLOSET	4"	2"	INT	1-1/4"	-	FLOOR MOUNTED, FLUSH VALVE, 1.28 GPF.
WC-4	WATER CLOSET	4"	2"	INT	1-1/4"	-	FLOOR MOUNTED, FLUSH VALVE, 1.28 GPF. ADA COMPLIANT
L-1	LAVATORY	2"	1 1/2"	1 1/4" X 1 1/2"	1/2"	1/2"	WALL-HUNG, 0.35 GPM.
L-2	LAVATORY	2"	1 1/2"	1 1/4" X 1 1/2"	1/2"	1/2"	WALL-HUNG, 0.35 GPM, ADA COMPLIANT.
L-3	LAVATORY	2"	1 1/2"	1 1/4" X 1 1/2"	1/2"	1/2"	COUNTER-TOP, 0.35 GPM.
L-4	LAVATORY	2"	1 1/2"	1 1/4" X 1 1/2"	1/2"	1/2"	COUNTER-TOP, 0.35 GPM, ADA COMPLIANT.
U-1	URINAL	2"	1-1/2"	INT	1-1/4"	-	WALL-HUNG, 0.125 GPF.
U-2	URINAL	2"	1-1/2"	INT	1-1/4"	-	WALL-HUNG, 0.125 GPF, ADA COMPLIANT.
DF-1	DRINKING FOUNTAIN	2"	1 1/2"	1 1/4" X 1 1/2"	1/2"	1/2"	WALL-HUNG, HI-LO.
S-1	SINK	2"	1 1/2"	2"	3/4"	3/4"	COUNTER-TOP, 1.5 GPM, ADA COMPLIANT.
FD-1	FLOOR DRAIN	2"	1 1/2"	1 1/4" X 1 1/2"	1/2"	-	WITH TRAP PRIMER CONNECTION
SS-1	SERVICE SINK	3"	2"	2"	3/4"	3/4"	WITH RIM GUARD AND VACUUM BREAKER.

Fixture Units Count Schedules

		WASTE (FUs)		COLD WATER (FUs)	
PLUMBING FIXTURE	QUANTITY	EA.	TOTAL		TOTAL
WATER CLOSETS (FLUSH VALVE)	6	4	24	5	30
LAVATORY, PUBLIC, 0.20 GPC	4	1	4	1	4
URINAL	2	2	4	4	8
SERVICE SINK	1	3	3	3	3
FLOOR DRAINS	2	2	4	-	-
DRINKING FOUNTAIN	1	1	1	1	1
TOTAL			40		46

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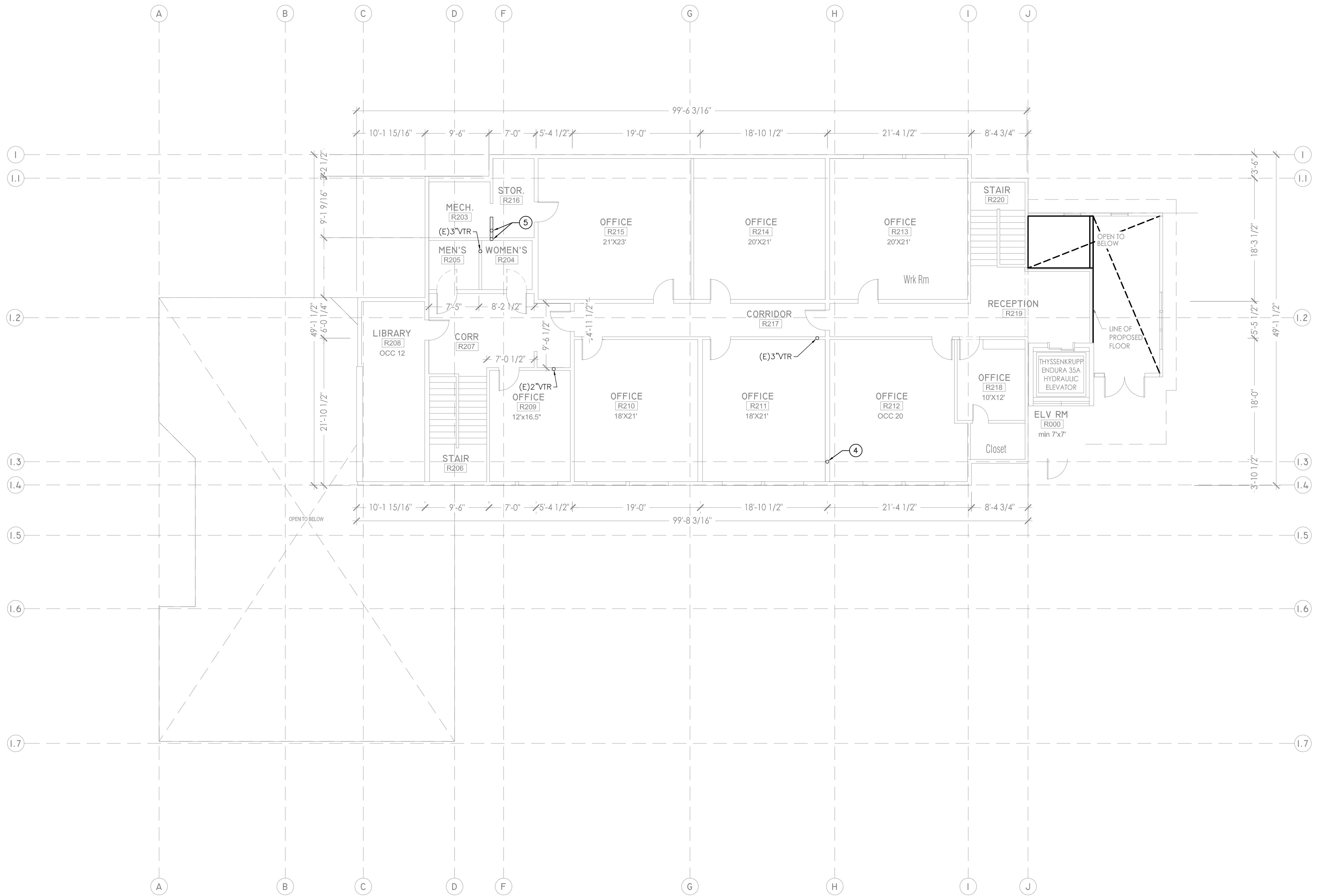
P1.2

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ISSUE
PLAN CHECK SET - JUNE 23, 2017

REVISION HISTORY
REV 1 PC SET 09/06/2017

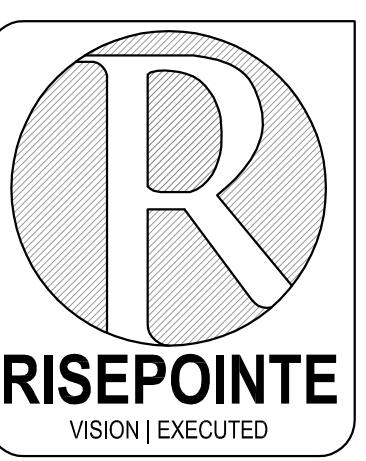
PLAN CHECK CORRECTIONS 9/06/2017



DESIGN NOTES

- (1) 4"W, 2)V & 3/4"CW TO WATER CLOSET. RECONNECT NEW PIPING TO EXISTING PIPING. FIELD VERIFY EXACT EXISTING PIPE SIZES, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (2) 2"W, 1-1/2)V, 1/2"CW & 1/2"HW TO LAVATORY. RECONNECT NEW PIPING TO EXISTING PIPING. FIELD VERIFY EXACT EXISTING PIPE SIZES, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (3) 2"W, 1-1/2)V & 1-1/4"CW TO URINAL. CONNECT NEW 2"W AND 1-1/2)V TO (E)4"W & (E)2)V. FIELD VERIFY EXACT EXISTING PIPE SIZES, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (4) EXISTING HOSE BIBB TO REMAIN AND REUSE. RECONNECT (E)3/4"CW TO NEW 1-1/4"CW. FIELD VERIFY EXACT EXISTING PIPE SIZE, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (5) 1-1/2"CW P.O.C. TO (E)1-1/2"CW. FIELD VERIFY EXACT EXISTING PIPE SIZE, LOCATION AND P.O.C PRIOR TO CONSTRUCTION.
 - (6) EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING TO REMAIN AND REUSE.
 - (7) EXISTING WATER HEATER AND ASSOCIATED PIPING TO REMAIN AND REUSE.
 - (8) RECONNECT (E)3/4"CW TO NEW 1-1/4"CW. FIELD VERIFY EXACT EXISTING PIP SIZE, LOCATION AND P.O.C PRIOR TO CONSTRUCTION.
 - (9) RECONNECT (E)3/4"CW TO NEW 1-1/2"CW. FIELD VERIFY EXACT EXISTING PIP SIZE, LOCATION AND P.O.C PRIOR TO CONSTRUCTION.

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ING NAME
**FLC - 2ND FLOOR
PLUMBING PLAN**

10 - 200

ING NUMBER

P22

P2.2

PLAN - LINE TYPE KEY

DEMOLITION — — — —
PROPOSED
EXT'G TO REMAIN _____

Family Life Center - 2nd Floor Plumbing Plan

an

1/

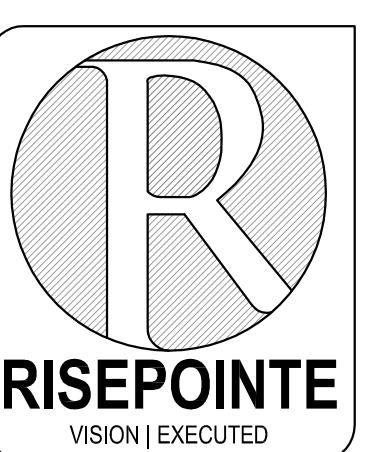
DS&A Consulting Engineers
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Email: dennis@dsaelectric.net

GENERAL NOTES

SUE
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PROJECT NAME
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SIMI VALLEY, CA 93062

DRAWING NAME
**FLC - ROOF
PLUMBING PLAN**

CALE

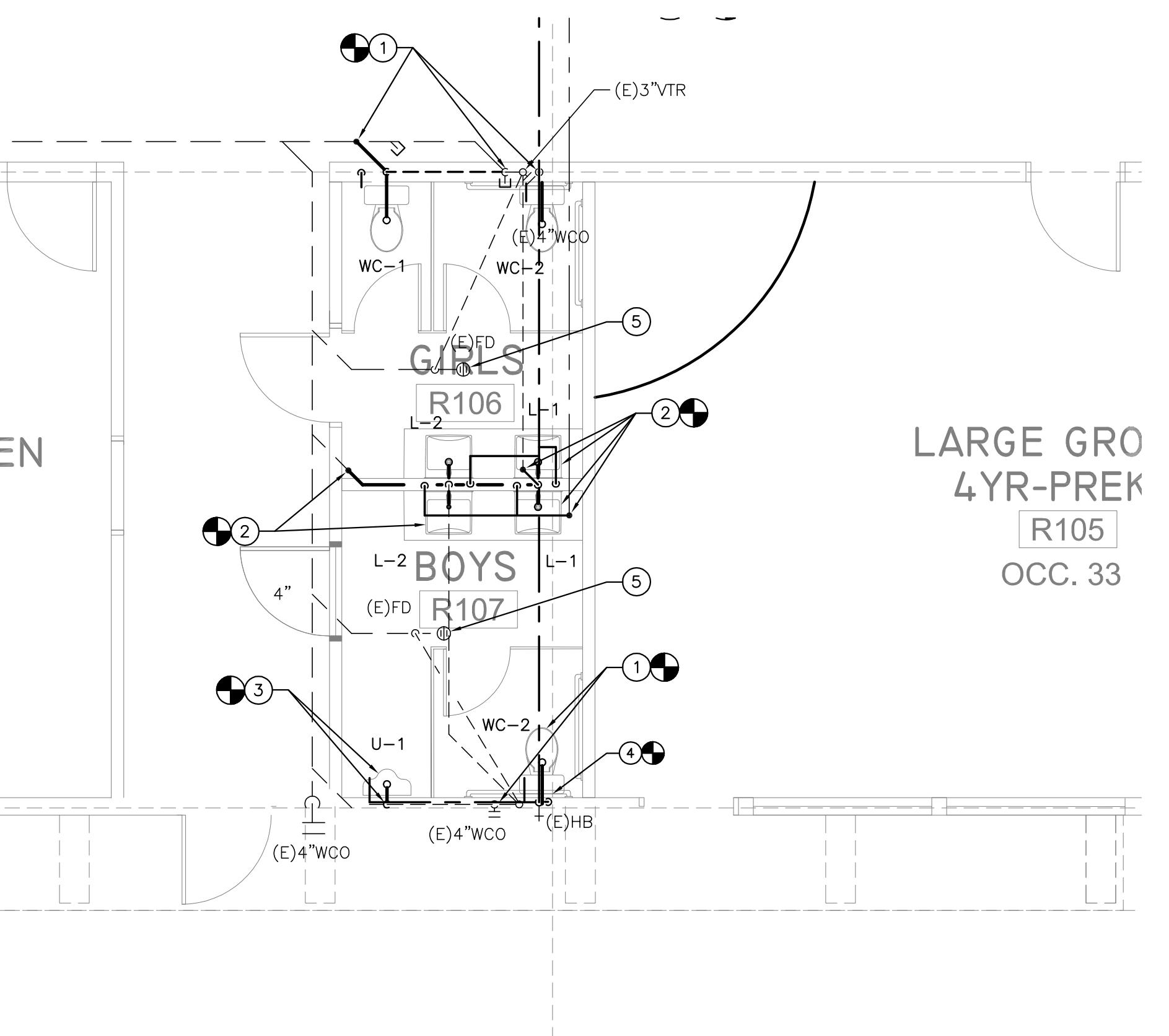
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P2.3

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Family Life Center - Roof Plumbing Plan

1



Family Life Center - 1st Floor Plumbing Enlarged Plan

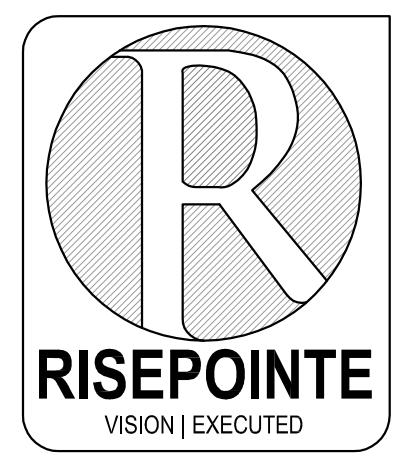
DESIGN NOTES

- (1) 4"W, 2)V & 3/4"CW TO WATER CLOSET. RECONNECT NEW PIPING TO EXISTING PIPING. FIELD VERIFY EXACT EXISTING PIPE SIZES, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (2) 2"W, 1-1/2)V, 1/2"CW & 1/2"HW TO LAVATORY. RECONNECT NEW PIPING TO EXISTING PIPING. FIELD VERIFY EXACT EXISTING PIPE SIZES, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (3) 2"W, 1-1/2)V & 1-1/4"CW TO URINAL. CONNECT NEW 2"W AND 1-1/2)V TO (E)4"W & (E)2)V. FIELD VERIFY EXACT EXISTING PIPE SIZES, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (4) EXISTING HOSE BIBB TO REMAIN AND REUSE. RECONNECT (E)3/4"CW TO NEW 1-1/4"CW. FIELD VERIFY EXACT EXISTING PIPE SIZE, LOCATION AND P.O.C'S PRIOR TO CONSTRUCTION.
 - (5) EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING TO REMAIN AND REUSE.

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ING NAME FLC - 1ST FLOOR
PLUMBING PLAN

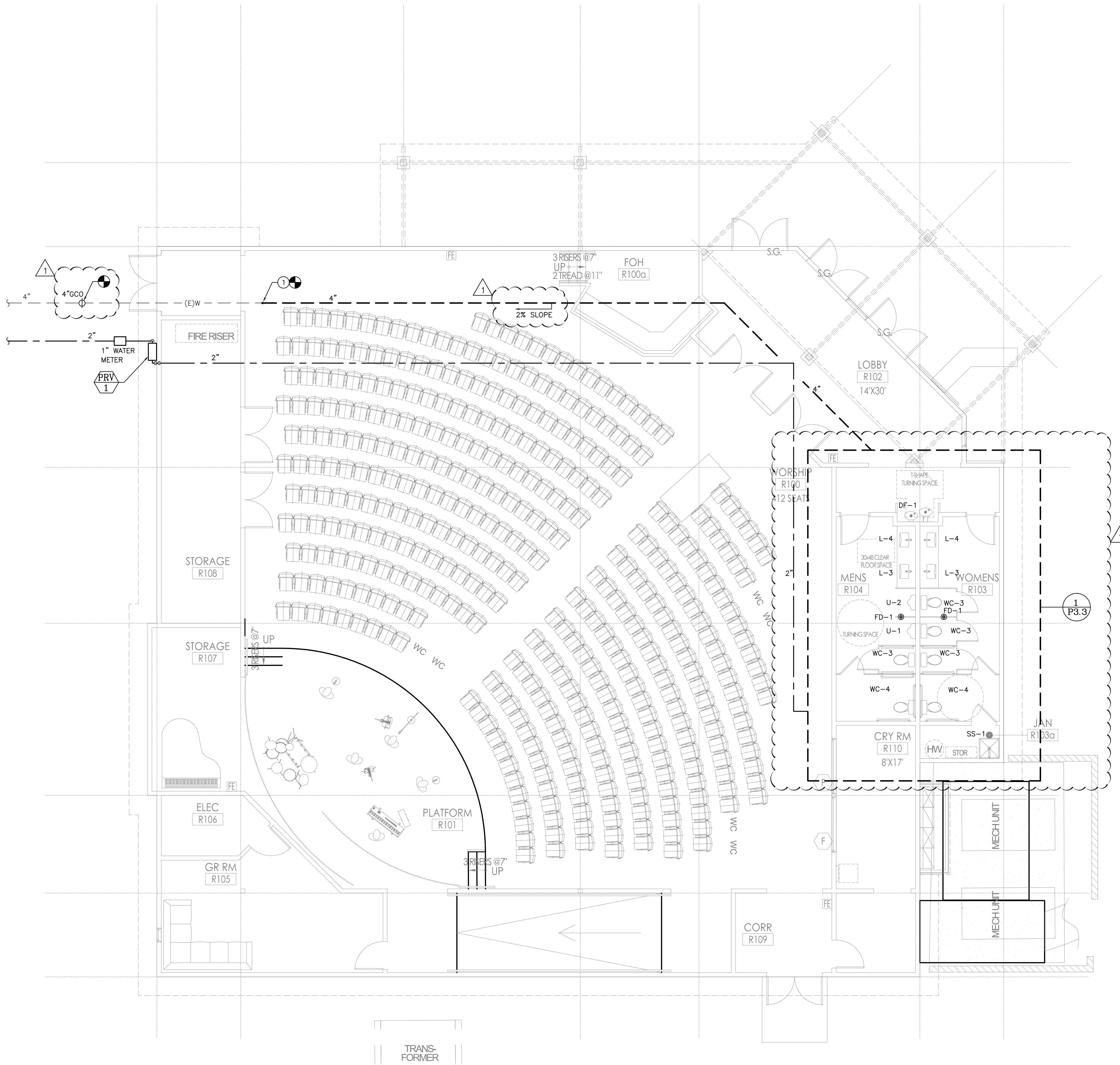
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16 - 299

E 1/8"=1'-0"

WING NUMBER

P2_4

P2.4

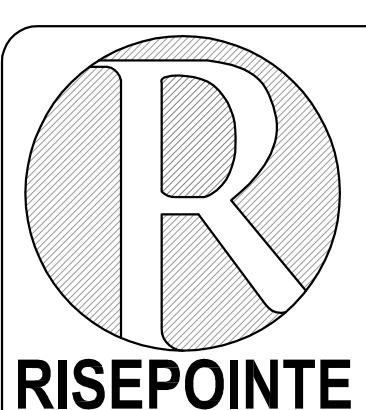


DESIGN NOTES

① 4"W P.O.C. TO (E)4"W. FIELD VERIFY EXACT EXISTING PIPE SIZE, LOCATION, INVERT AND P.O.C PRIOR TO CONSTRUCTION.

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A circular registration stamp for Shahrokh Saremi. The outer ring contains the words "REGISTERED PROFESSIONAL ENGINEER" at the top and "MECHANICAL" at the bottom, flanked by two five-pointed stars. The inner circle contains "SHAHROKH SAREMI" at the top, "S&S" in a stylized signature in the center, "M-34968" below it, "EXP. 6-30-18" at the bottom, and "STATE OF CALIFORNIA" at the very bottom.

PROJECT NAME
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CALENDAR

DRAWING NUMBER

P3.1

Worship Auditorium - Plumbing Floor Plan

3/

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P3.1

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A circular stamp with a double-line border. The outer ring contains the words "REGISTERED PROFESSIONAL ENGINEER" at the top and "MECHANICAL ENGINEERING" at the bottom. The inner circle contains "SHAHROKH SAREMI" at the top, a signature "S.S." in the center, and "M-34968" below it. At the bottom, it says "EXP. 6-30-18" and "STAN. 10-10-18". There are two five-pointed stars, one on each side of the expiration date.

ECT NAME
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ING NAME
WORSHIP AUDITORIUM
- PLUMBING ROOF PLAN

16 - 299

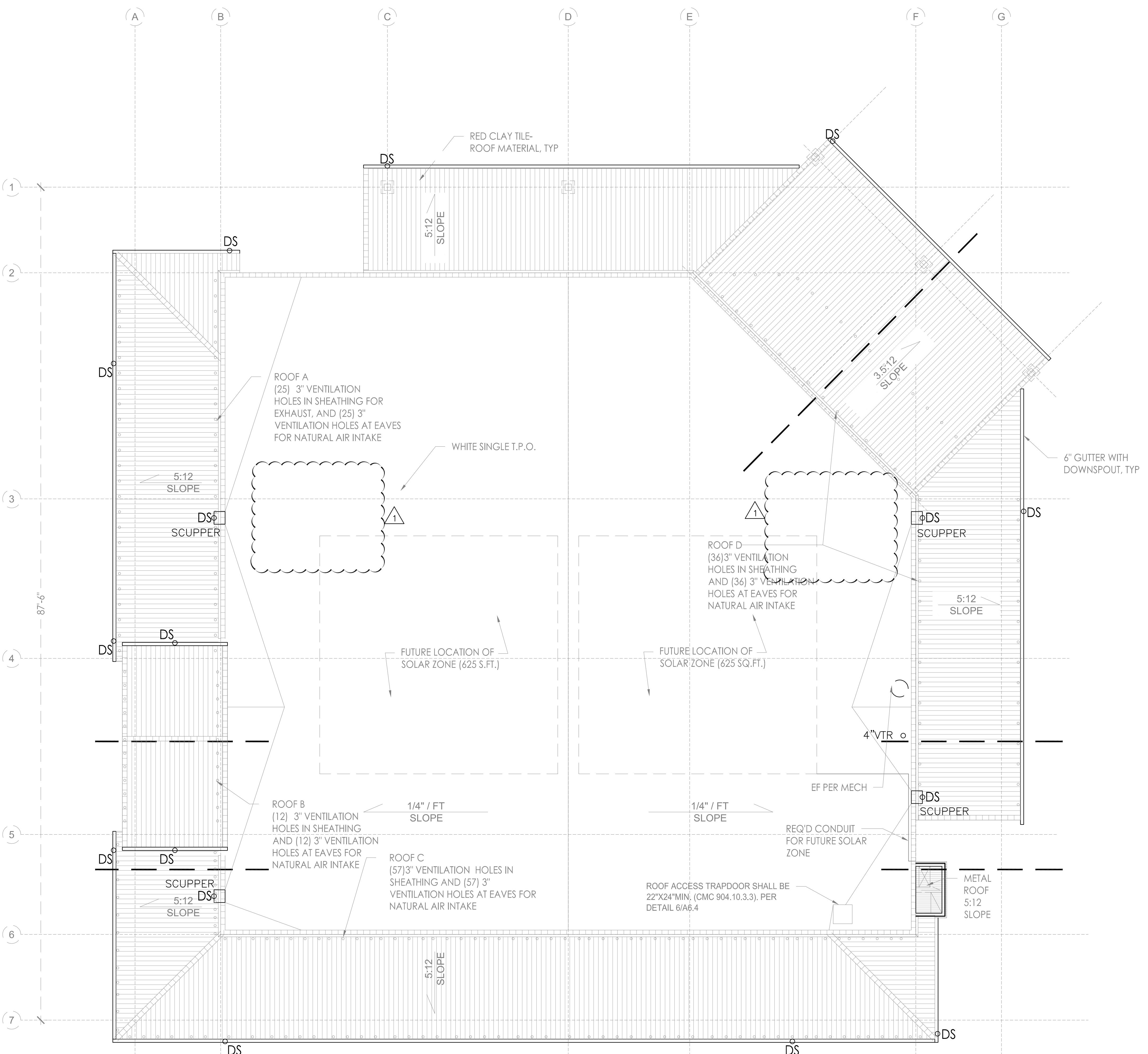
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ENCLOSURE NUMBER

Page 2

P3.2

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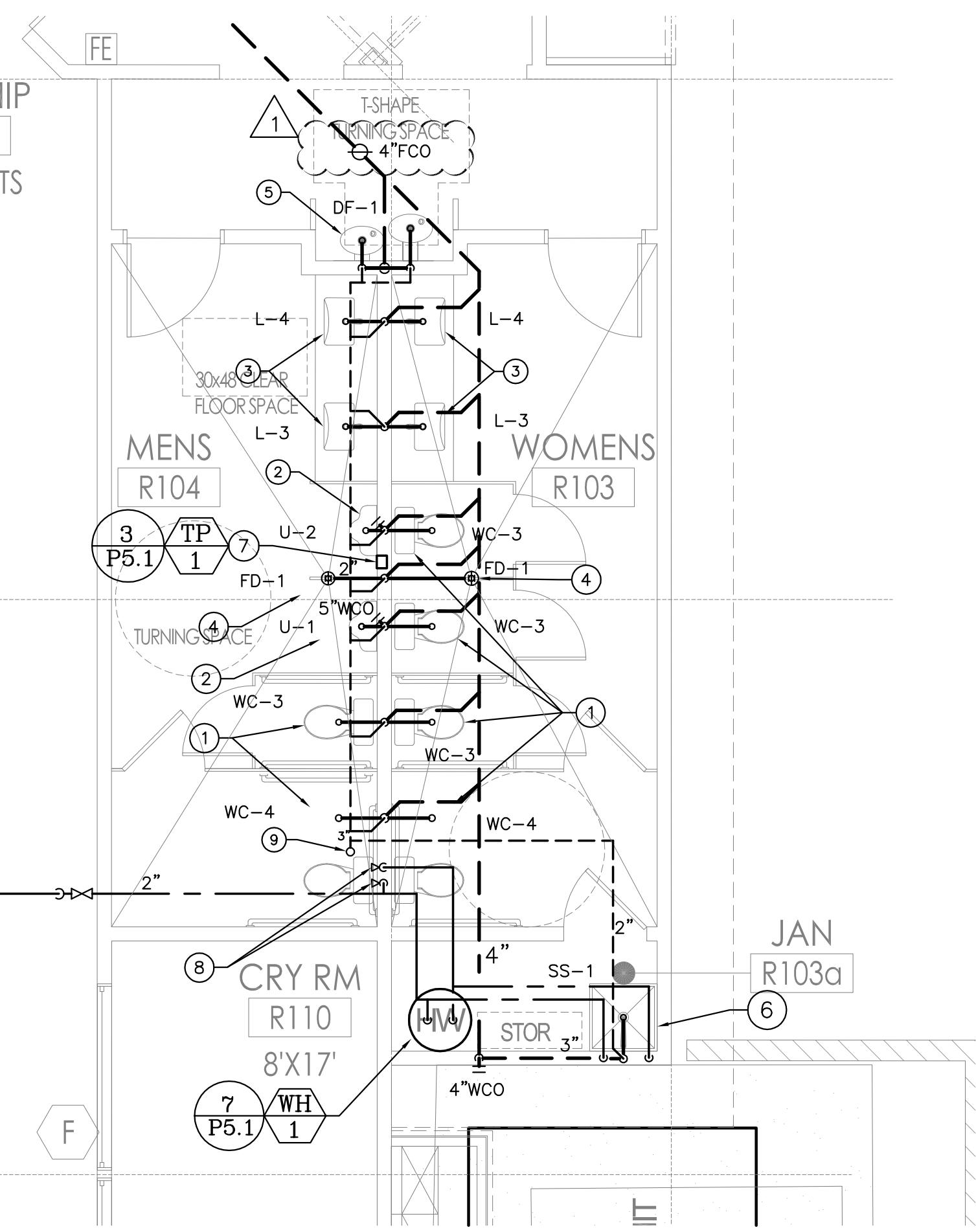


Worship Auditorium - Plumbing Roof Plan

3/16

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P3.2



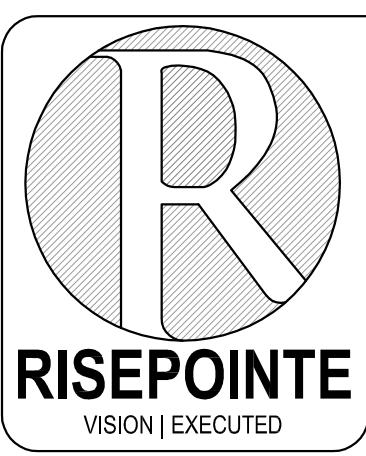
Worship Auditorium - Plumbing Enlarged Plan

an

DESIGN NOTES

- (1) 4"W, 2"V & 1-1/4"CW TO WATER CLOSET.
 - (2) 2"W, 1-1/2"V & 1-1/4"CW TO URINAL.
 - (3) 2"W, 1-1/2"V, 1/2"CW & 1/2"HW TO LAVATORY.
 - (4) 2"W, 1-1/2"V & 1/2"CW TO FLOOR DRAIN. PROVIDE CONNECTION.
 - (5) 2"W, 1-1/2"V, 1/2"CW & 1/2"HW TO DRINKING FAUCET.
 - (6) 3"W, 2"V, 3/4"CW & 3/4"HW TO SERVICE SINK.
 - (7) 1/2"CW TO TRAP PRIMER.
 - (8) SHUT-OFF VALVES WITH ACCESS PANEL.
 - (9) 4" VENT UP THRU ROOF.

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SIMI VALLEY, CA 93063



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DRAWING NAME
WORSHIP AUDITORIUM
- PLUMBING ENLARGED PLAN

PROJECT NUMBER
16 - 299

18 - 255

1/4"=1'-0"

DRAWING NUMBER

D3 3 }

P6.6 }

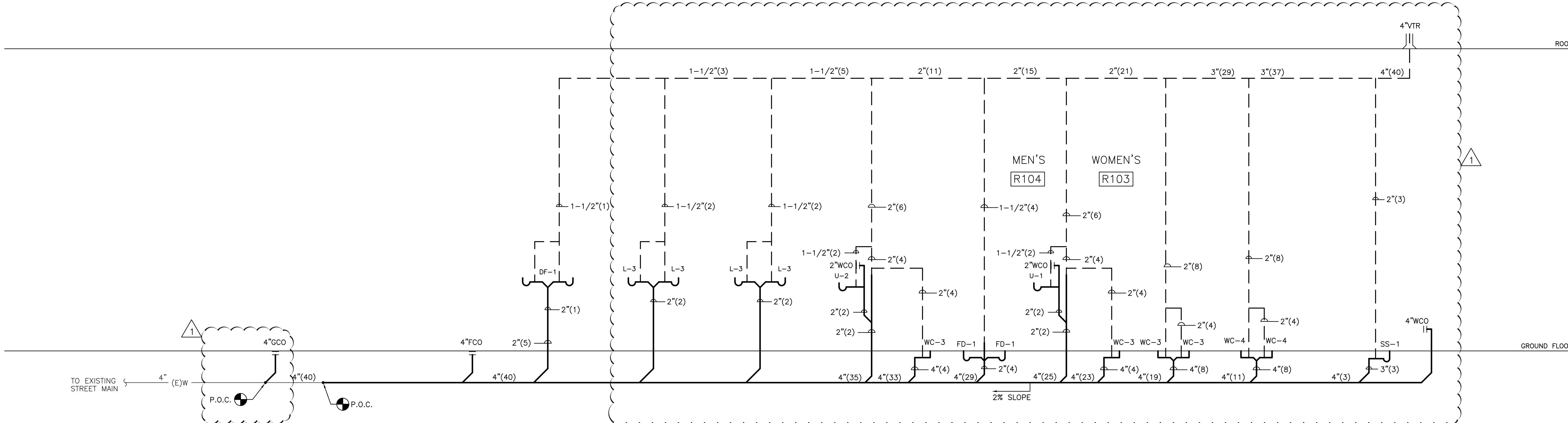
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The logo for DS&A Consulting Engineers features the company name in a large serif font. To the right of the text is a graphic element consisting of a triangle pointing down and to the left, with the number '1' inside it. Below the main title is a decorative flourish or scrollwork graphic.

IT'S ALL ABOUT THE STORY, BABY

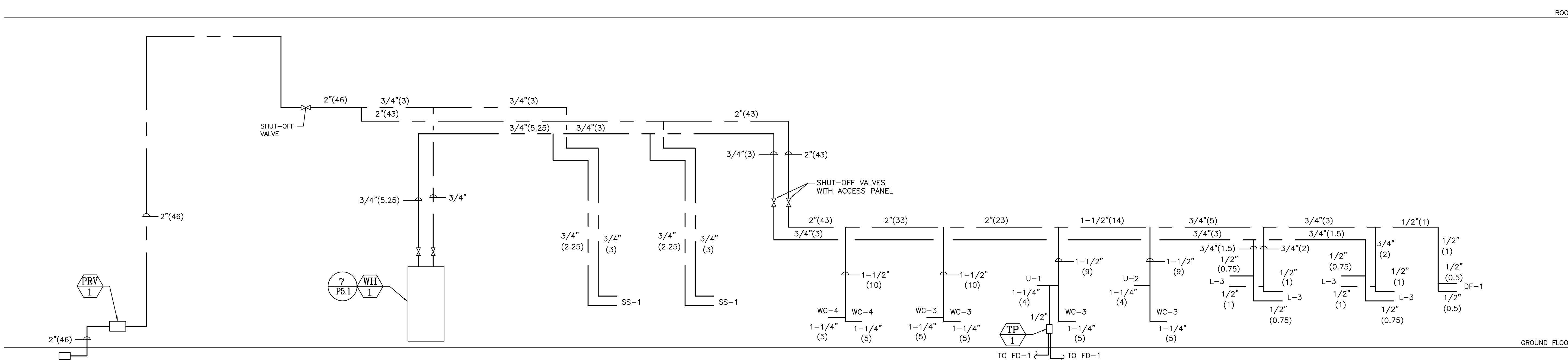
ISSUE
PLAN CHECK SET - JUNE 23, 2017

PLAN CHECK CORRECTIONS 9/06/2017



WASTE & VENT RISER DIAGRAM

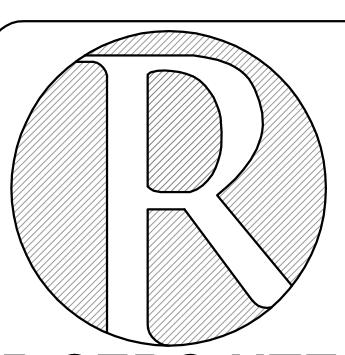
Detail
Scale



COLD WATER RISER DIAGRAM

Detail	2	Mechanical, Electrical Plumbing Consulting Engineers 10811 Washington Blvd., Suite 3 Culver City, CA. 90232 Tel: (310) 384-2594 Email: dennis@dsaelectric.net
Scale		

P4.1



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16 - 29

N.I.S.

P4.1

