

UPLANDS TOWNHOMES

DEVELOPED BY THE HOUSING AUTHORITY OF PUEBLO

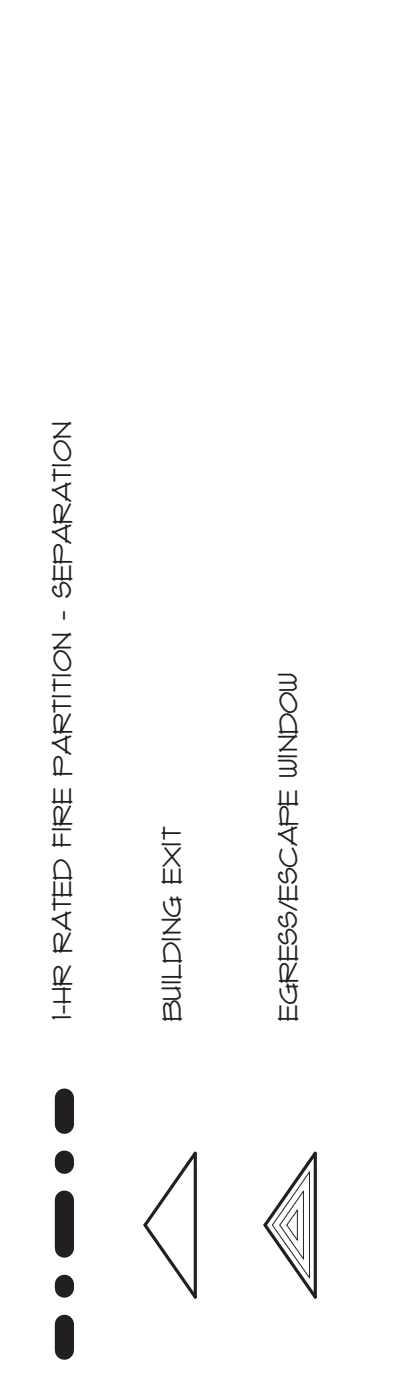
PROJECT No.: I.F.B 17-524-RAD

ACERO AVE. and SPRAGUE AVE., PUEBLO, COLORADO 81004

BLDG. F CODE STUDY SUMMARY

APPLICABLE CODES	209 INTERNATIONAL BUILDING CODE UNIFORM FEDERAL ACCESSIBILITY STANDARDS		
PROJECT DESCRIPTION	NEW CONSTRUCTION - APARTMENT BUILDING		
CONSTRUCTION CLASSIFICATION	R-2 RESIDENTIAL - APARTMENT HOMES		
TYPE OF CONSTRUCTION	TYPE V-B with a MIN. FIRE-SEPARATION DISTANCE of 10'-0"		
FIRE RESISTANCE RATINGS REQ. OF BLDG. ELEMENTS	PRIMARY STRUCTURAL FRAME: 0 BEAMS WALLS EXTERIOR: 0 NON-BEARING EXTERIOR WALLS: 0 FLOOR CONSTRUCTION: 0 ROOF CONSTRUCTION: 0		
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. A1	7000	R2 ACTUAL AREA: 372 SQ. FT. MAX (IN FL.)
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B1	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B2	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B3	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B4	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B5	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B6	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B7	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B8	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B9	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B10	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B11	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B12	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B13	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B14	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B15	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B16	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B17	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B18	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B19	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B20	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B21	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B22	3000	
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TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B99	3000	
TABULAR ALLOWABLE AREA PER FLOOR	R2 DIST. B100	3000	

CODE STUDY LEGEND



GENERAL NOTES

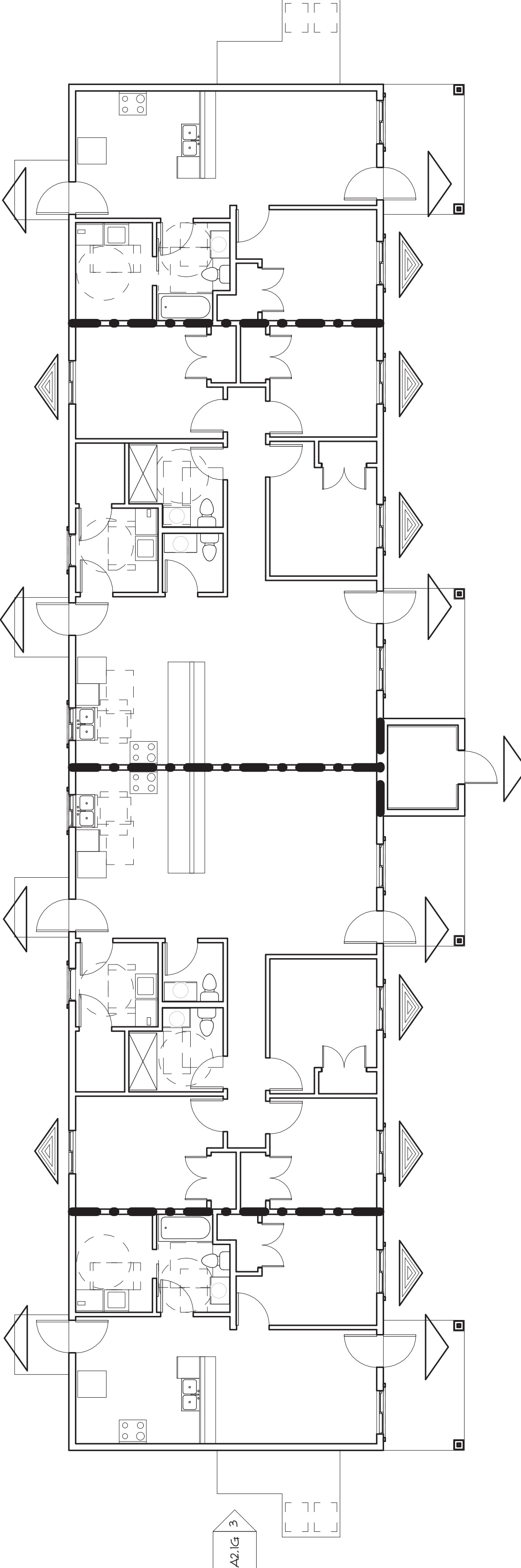
- THIS PROJECT SHALL MEET THE 2015 ENTERPRISE GREEN COMMUNITIES CRITERIA COORDINATE ALL WORK WITH ALL DISCIPLINES INCLUDING, BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL.
- PROVIDE AND INSTALL 2x6 WID. BLOCKING BETWEEN STUDOS AND BEHIND GYP. BD. AS REQUIRED FOR ALL WALL MOUNTED TELEPHONE SHELVES, TOILET ACCESSORIES, GRAB BARS, VANITY COUNTERTOPS, WALL, AND BASE CABINETS, AND TELEPHONE BOARD.
- PROVIDE 3/4" RADIUS BULLNOSE CORNER BEAD AT ALL EXPOSED GYP. BD. OUTSIDE WALL CORNERS ON INTERIOR OF BUILDING.
- BUILDINGS SHALL BE PROVIDED WITH AUTOMATIC FIRE SUPPRESSION SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R EACH UNIT SHALL HAVE A FIRE EXTINGUISHER INSTALLED ON THE FIRST FLOOR. EACH STORAGE ROOM AND WATER ENTRY ROOM SHALL HAVE A FIRE EXTINGUISHER INSTALLED IN THE ROOM.
- STAIRWAYS SHALL BE PROVIDED WITH AUTOMATIC FIRE SUPPRESSION SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R.
- THE PORCH ELEVATIONS OF ALL BUILDINGS SHALL BE ORIENTED TO FACE THE STREET.

BUILDING & SHEET INDEX

GI:0G	BUILDING & COVER CODE STUDY, INDEX
A1:IG	BUILDING G FLOOR, REFLECTED CEILING AND ROOF PLANS
A2:IG	BUILDING G ELEVATIONS
A3:IG	BUILDING G BUILDING, WALL SECTIONS and RADON VENT
A4:IG	DETAILS G DOOR and WINDOW SCHEDULES, ELEVATIONS and DETAILS
A5:IG	BUILDING G FINISH SCHEDULE and INTERIOR ELEVATIONS
SI:G	FOUNDATION AND MAIN FLOOR FRAMING PLANS
SI:G	ROOF FRAMING PLAN
SI:G	DETAILS AND GENERAL NOTES
MD:IG	DRAWING INDEX, GENERAL NOTES, LEGENDS AND SCHEDULES
MI:IG	FIRST AND SECOND FLOOR - BUILDING G HVAC
PO:IG	DRAWING INDEX, GENERAL NOTES AND LEGENDS
PO:IG	SCHEDULES AND DIAGRAMS
PI:IG	CRAIL SPACE AND FIRST FLOOR - BUILDING G - PLUMBING
EL:IG	BLDG G - ELECTRICAL LEGENDS AND SERVICE DIAGRAMS
EL:IG	BLDG G - ELECTRICAL PLANS

PROJECT TEAM

OWNER: THE HOUSING AUTHORITY OF PUEBLO 201 S. VICTORIA PUEBLO, CO 81003 PH: 719-546-6916	STRUCTURAL ENGINEER: VALENTINE ENGINEERING 415 N. GREENWOOD PUEBLO, CO 81003 PH: 719-546-3920
ARCHITECT: HGF ARCHITECTS, INC. 2602 N. ELIZABETH ST PUEBLO, COLORADO 81003 PH: 719-543-7600 FX: 719-546-2910	CIVIL ENGINEER: ALTITUDE LAND CONSULTANTS 201 E. LAS ANIHAS #113 COLORADO SPRINGS, CO 80903 PH: 719-231-9993
ELECTRICAL ENGINEER: KOHNET ELECTRICAL ENGINEERS 911 S. 8TH ST, SUITE 200 COLORADO SPRINGS, CO 80906 PH: 719-633-2637	MECHANICAL ENGINEER: AE ASSOCIATES 308 FILLMORE, SUITE 200 COLORADO SPRINGS CO 80907 PH: 719-262-9430



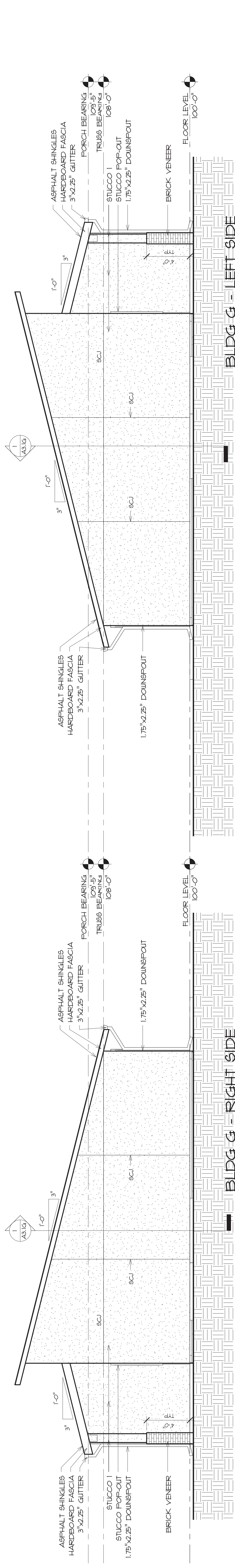
1st FLOOR CODE STUDY -
BLDG. G
SC: 1/8" = 1'-0"
RE: A31.A

DRAWING LEGEND

	DOOR TAG
	WINDOW TAG
	WALL TYPE TAG
	FLAG NOTE
	Room name
	ROOM NAME and NUMBER TAG
	CEILING TYPE TAG
	CEILING HEIGHT TAG

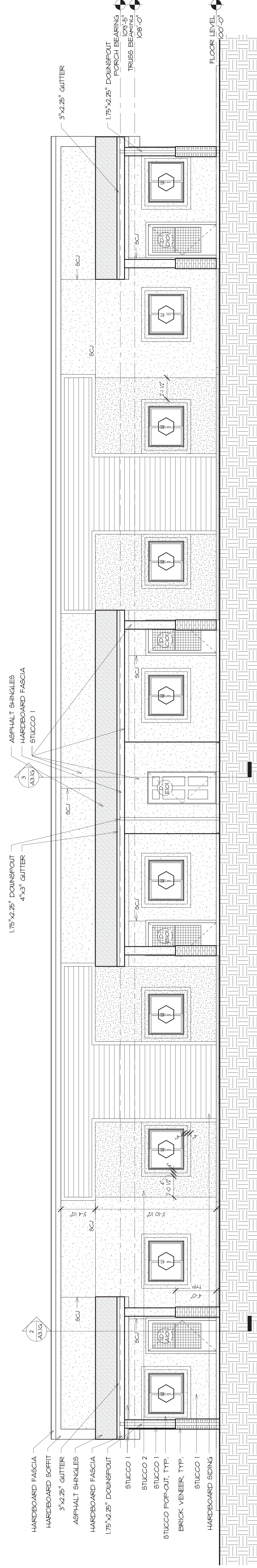
ELEVATION GENERAL NOTES:

1. PROVIDE AND INSTALL EXPANSION JOINT AND CALK CONTINUOUSLY AT ALL STUCCO TO HARDBOARD SIDING JOINTS. SEE SPECIFICATIONS.
2. PROVIDE AND INSTALL STUCCO CONTROL JOINT (SCJ) EVERY 12'-0" VERTICALLY AND HORIZONTALLY BETWEEN STUCCO COLOR CHANGES, AND AT EVERY OTHER LOCATION INDICATED. SEE SPECIFICATIONS.

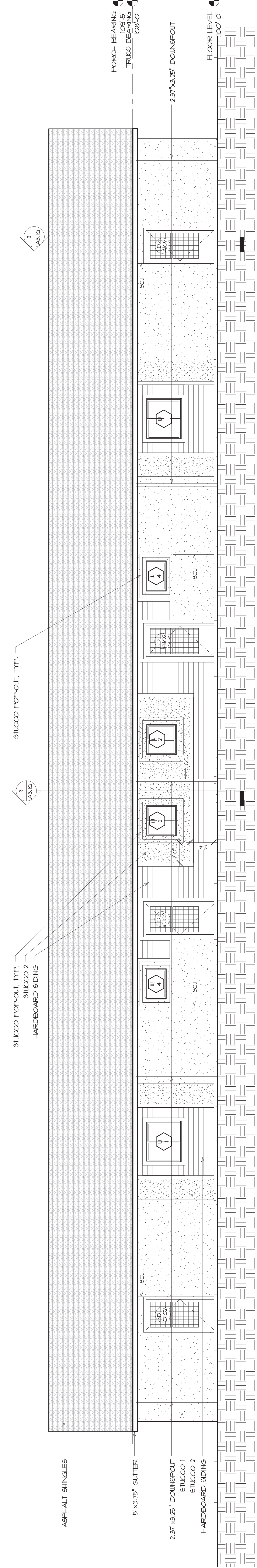


BLDG G - LEFT SIDE
3 ELEVATION
SC: 1/4" = 1'-0"
RE: G1.G03

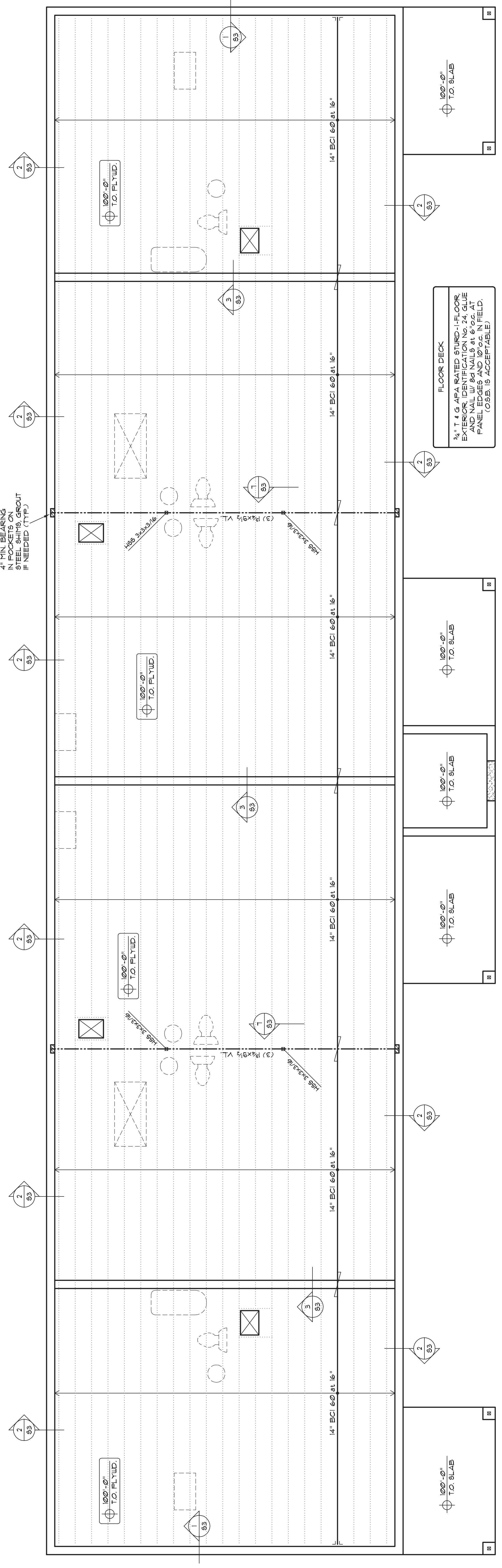
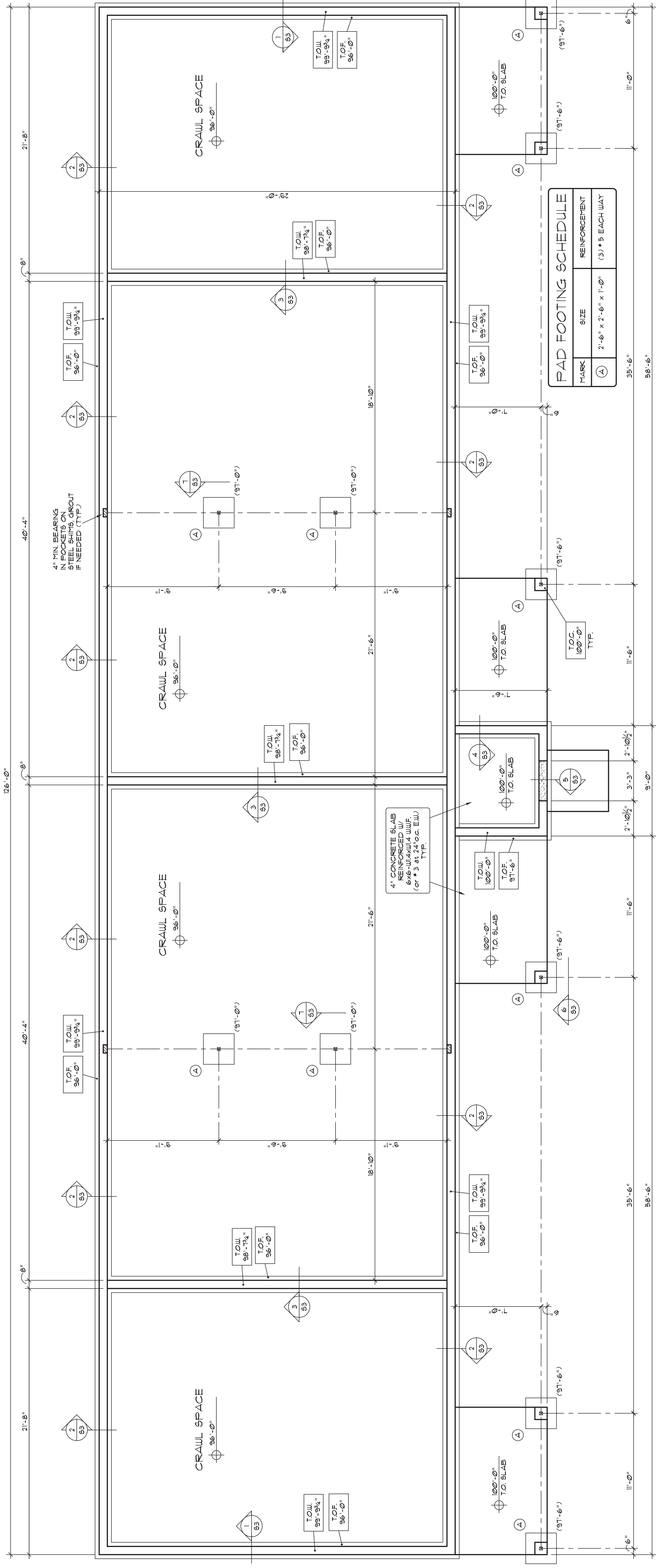
BLDG G - RIGHT SIDE
4 ELEVATION
SC: 1/4" = 1'-0"
RE:

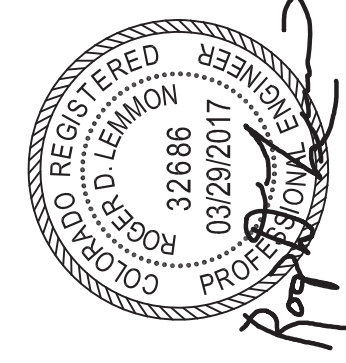


BLDG G - FRONT
2 ELEVATION
SC: 1/4" = 1'-0"
RE:



BLDG G - BACK
1 ELEVATION
SC: 1/4" = 1'-0"
RE:





DRAWING INDEX

• ISSUED FOR CONSTRUCTION
 ○ ISSUED FOR REFERENCE ONLY, NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESCRIPTION
1	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
2	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
3	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
4	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
5	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
6	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
7	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
8	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
9	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
10	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
11	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
12	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
13	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
14	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
15	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
16	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
17	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
18	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
19	02/23/2011	KSL	ISSUED FOR CONSTRUCTION
20	02/23/2011	KSL	ISSUED FOR CONSTRUCTION

NUMBER	DRAWING TITLE	DATE
MO-1G	DRAWING INDEX, GENERAL NOTES, LEGENDS AND SCHEDULES	02/23/2011
M1-G	FIRST AND SECOND FLOOR - BUILDING G - HVAC	02/23/2011

DUCT SYSTEM NOTES

- ALL DUCTWORK UNLESS SPECIFICALLY INDICATED SHALL BE GALVANIZED SHEET METAL INSTALLED IN ACCORDANCE WITH THE SHADOM DUCT CONSTRUCTION STANDARDS. SEAL CLASS B. DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS. ALLOWANCES MUST BE MADE FOR DUCT L INER WHERE CALLED FOR.
- ALL SUPPLY DUCTWORK SHALL HAVE ALL JOINTS SEALED WITH "HARDCAST" OR EQUAL DUCT SEALER/MASTIC.
- ALL CONCEALED ROUND SUPPLY AIR DUCTS 12" AND SMALLER SHALL BE GALVANIZED SHEET METAL SNAP-LOCK, ROUND SUPPLY DUCT GREATER THAN 12" SHALL BE GALVANIZED SHEET METAL SPIRAL, PROVIDE 1" FIBERGLASS INSULATION UNWAP. INSULATED FLEXIBLE DUCT MAY BE USED FOR THE CONNECTION TO THE AIR OUTLET PROVIDED THE LENGTH OF THE FLEXIBLE DUCT DOES NOT EXCEED 6' LINEAR FEET.
- FACTORY MADE AIR DUCTS SHALL CONFORM TO UL 181 AND INCLUDE APPROPRIATE LABEL. FLEXIBLE DUCTWORK SHALL BE APPROVED CLASS 0 OR CLASS 1, LENGTH NOT TO EXCEED 6'-0".
- ALL BRANCH DUCT CONNECTIONS TO AIR OUTLETS AND AIR INLETS SHALL BE THE SAME SIZE AS THE DEVICE NECK UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- ALL ENVIRONMENTAL AIR EXHAUST DUCTS SHALL BE SEALED WITH "HARDCAST" OR EQUAL.
- DUCT HANGERS SHALL BE A MINIMUM 1/2" X 26 GAUGE GALVANIZED STEEL.
- PROVIDE SINGLE THICKNESS TURNING VANES IN ALL SQUARE AND RECTANGULAR ELBOUGS IN SUPPLY, RETURN SYSTEMS.
- ALL FIRE DAMPERS SHALL BE LABELED FOR USE IN DYNAMIC SYSTEMS UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES - HVAC

- RESOLVE ALL QUESTIONS OR CONFLICTS WITH ENGINEERS BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED.
- COORDINATE THE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES ESPECIALLY STRUCTURAL, PLUMBING, ELECTRICAL AND ARCHITECTURAL CEILING HEIGHTS.
- COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH THE GENERAL CONTRACTOR.
- COORDINATE AND VERIFY THAT ALL OPENINGS IN WALLS ABOVE CEILING / DOOR LOUVERS / DOOR UNDERCUTS ARE PROVIDED AS INDICATED ON THESE DRAWINGS.
- LEVEL ALL EQUIPMENT CURBS / BASES PRIOR TO INSTALLATION OF ANY EQUIPMENT. INSTALL FULL SIZE CONDENSATE DRAIN WITH TRAP SEAL ABOVE THE EQUIPMENT CURB. PROVIDE SUFFICIENT PRESSURE FOR EACH COOLING COIL. ENSURE THAT THE TOP OF GROUND MOUNTED EQUIPMENT FADS ARE AT LEAST 3" ABOVE FINAL GRADE.
- PROVIDE OFFSETS AS NECESSARY TO ACCOMMODATE STRUCTURE AND OTHER TRADES.
- SEAL ALL ROOF PENETRATIONS WATER TIGHT WITH SEALANT/CALKING OR SYSTEM COMPATIBLE WITH ROOFING.
- ALL PIPING PENETRATIONS THROUGH FLOORS SHALL BE SEALED WATER TIGHT BY GROUTING FEMHER GAP BETWEEN PIPE AND FLOOR AND APPROVED SEALANT.
- MATERIALS EXPOSED IN PLUMBING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 100.
- BIRD SCREEN UNLESS OTHERWISE SPECIFIED SHALL BE 1/4" STEEL MESH.
- INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2005 INTERNATIONAL MECHANICAL CODE APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND APPLICABLE SECTIONS OF THE PUEBLO BUILDING CODE.

CONDENSING UNIT AND DX COOLING COIL SCHEDULE

NOTES: 1) PROVIDE REFRIGERATION PIPING ACCORDING TO MANUFACTURERS RECOMMENDATIONS. 2) SCROLL COMPRESSOR. 3) 1/6 BEER. 4) R-410A REFRIGERANT. 5) CURVED LOUVER PANELS. 6) LIQUID LINE 1/2", SUCTION LINE 3/4".

TAG	MANUFACTURER	CU MODEL	NOMINAL TONS	ELECTRICAL VOLTS/PH	MCA	MOP	WEIGHT (LBS)	SERVES	NOTES
CU-01	CARRIER	24ANB630A0003	15	230/1	11.1	20	84	FC-01, 04	1, 2, 3, 4, 5, 6, 7
CU-02	CARRIER	24ANB634A0003	2.0	230/1	11.5	25	196	FC-02, 05	1, 2, 3, 4, 5, 6, 7
CU-03	CARRIER	24ANB630A0003	2.5	230/1	18	25	193	FC-03, 06	1, 2, 3, 4, 5, 6, 7

EXHAUST FAN SCHEDULE

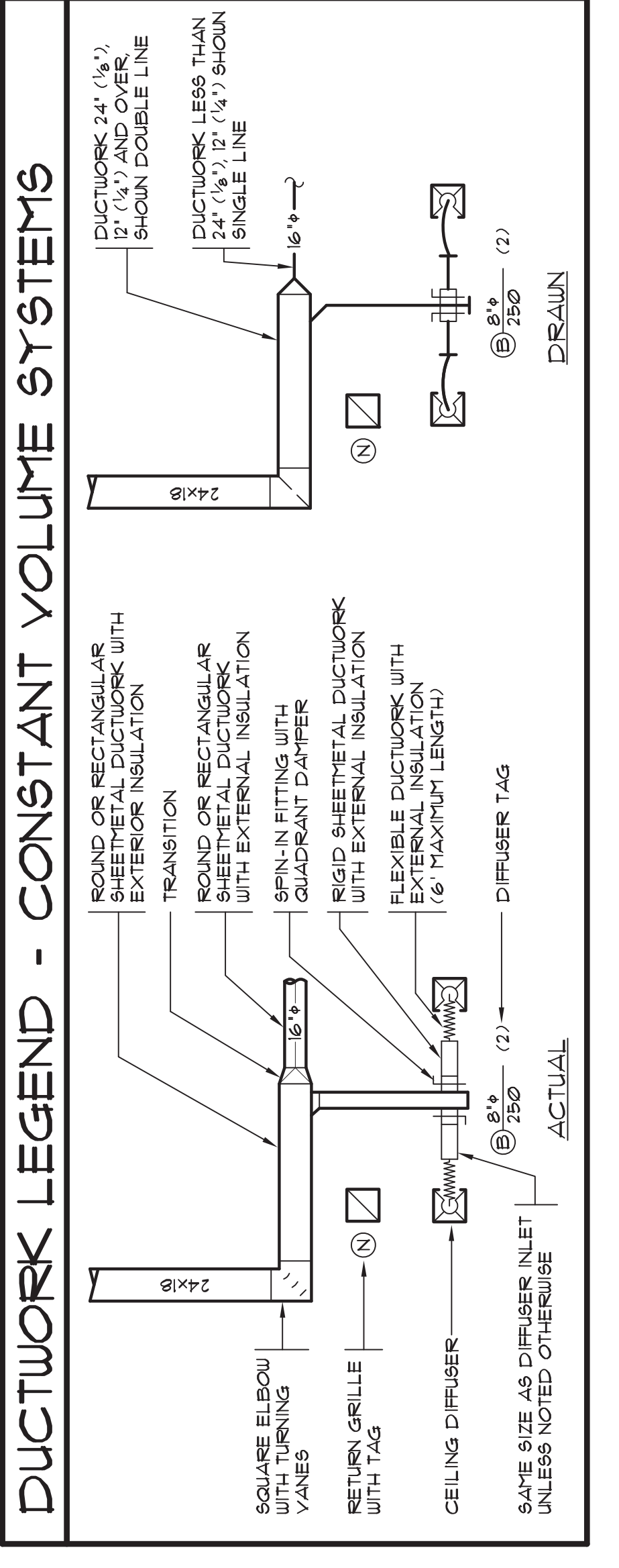
NOTES: 1) INCLUDES WHITE PLASTIC GRILLE. 2) MEETS ENERGY STAR RATINGS AND ASHRAE STD 62.2. 3) BACKDRAFT DAMPER. 4) INCLUDE MULTI-SPEED MODULE. 5) SWITCH WITH LIGHT SWITCH. 6) CONTINUOUS VENTILATION.

TAG	MANUF.	MODEL	CFM	ESP INCH WC	TYPE	DRIVE	BORES	WATTS	VOLTS/PH	NOTES
EF-01	PANASONIC	FV-05-TV1K1	30/80	0/40	CEILING	DIRECT	5	25	120/1	1, 2, 3, 4, 5, 6

RANGE HOOD SCHEDULE

NOTES: 1) INCLUDE BACKDRAFT DAMPER. 2) 30" WIDTH. 3) 75 WATT LIGHT. 4) 2-SPEED. 5) OWNER TO CHOOSE COLOR.

TAG	MANUFACTURER	MODEL	TYPE	CFM	BORES	VOLTS/PH	MCA	NOTES
RH-01	BROAN	413000	TVA VENTED	190	60	120/1	2.9	1, 2, 3, 4, 5



LEGEND (NOT ALL ITEMS WILL BE USED)

SYMBOL	DESCRIPTION
HUB	HOT WATER SUPPLY AND RETURN PIPING
CHUB	CHILLED WATER SUPPLY AND RETURN PIPING
CHS, CHR	UNION FLANGE BLIND FLANGE
SOV	SOX GATE VALVE BALL VALVE GLOBE VALVE BUTTERFLY VALVE
STR	CHECK VALVE STRAINER
PLV	LUBRICATED PLUS VALVE, BALANCING VALVE
TEE	PIPE ELBOW DOWN, PIPE TEE DOWN, PIPE TEE UP, PIPE ELBOW UP
ANCHOR	PIPE ANCHOR, PIPE GUIDE, PIPE SLEEVE
EXP	FLEX CONNECTION, PIPE EXPANSION JOINT
SQ	SQUARE DUCT ELBOW WITH TURNING VANES
OB	DOWN AND BACK UP UNDER BEAM OR OBSTACLE
RA	SUPPLY AIR RETURN/OUTSIDE AIR AND EXHAUST AIR
UL	DUCTWORK UNLINED AND DUCTWORK LINED
FR	FLEXIBLE AND RIGID ROUND DUCT
RE	DUCTWORK TO BE REMOVED
FR, R	FIRE SMOKE, COMBINATION FIRE AND SMOKE, RADIATION SMOKE AND RADIATION DAMPERS
MT, RT	BAROMETRIC, MOTORIZED AND MANUAL DAMPERS SMOKE DETECTOR
PS	PRESSURE DIFFERENTIAL SWITCH
TH, TT, CO, C2	THERMOSTAT, HUMIDISTAT, TEMPERATURE TRANSMITTER, CARBON MONOXIDE OR CARBON DIOXIDE SENSOR
SA, RA, EA, OA	WORK NOTE 1, REVISION NO. 1, DEPOLITON NOTE 1, POINT OF CONNECTION
SA, RA, EA, OA	SUPPLY AIR, RETURN AIR, EXHAUST AIR, OUTSIDE AIR
SECTION A ON SHEET M-1	SECTION A ON SHEET M-1
DIAGRAM 1 ON SHEET M-1	DIAGRAM 1 ON SHEET M-1
RISER R-1 ON SHEET M-1	RISER R-1 ON SHEET M-1
EQUIPMENT TAG	EQUIPMENT TAG
EQUIPMENT TYPE	EQUIPMENT TYPE
EQUIPMENT NUMBER	EQUIPMENT NUMBER

FAN COIL SCHEDULE

NOTES: 1) UPFLOW CONFIGURATION. 2) DOWN FLOW CONFIGURATION. 3) DISPOSABLE FILTER. 4) 1/2 EC MOTOR ON BLOWER. 5) MICRO-PROCESSOR CIRCUIT BOARD. 6) FACTORY THIRTEEN (13) COILS TO MAKE EXHAUST FAN COILS. 7) 1/2" INSULATION. 8) 1/2" INSULATION. 9) 1/2" INSULATION. 10) 1/2" INSULATION. 11) 1/2" INSULATION. 12) 1/2" INSULATION. 13) 1/2" INSULATION. 14) 1/2" INSULATION. 15) 1/2" INSULATION. 16) 1/2" INSULATION. 17) 1/2" INSULATION. 18) 1/2" INSULATION. 19) 1/2" INSULATION. 20) 1/2" INSULATION. 21) 1/2" INSULATION. 22) 1/2" INSULATION. 23) 1/2" INSULATION. 24) 1/2" INSULATION. 25) 1/2" INSULATION. 26) 1/2" INSULATION. 27) 1/2" INSULATION. 28) 1/2" INSULATION. 29) 1/2" INSULATION. 30) 1/2" INSULATION. 31) 1/2" INSULATION. 32) 1/2" INSULATION. 33) 1/2" INSULATION. 34) 1/2" INSULATION. 35) 1/2" INSULATION. 36) 1/2" INSULATION. 37) 1/2" INSULATION. 38) 1/2" INSULATION. 39) 1/2" INSULATION. 40) 1/2" INSULATION. 41) 1/2" INSULATION. 42) 1/2" INSULATION. 43) 1/2" INSULATION. 44) 1/2" INSULATION. 45) 1/2" INSULATION. 46) 1/2" INSULATION. 47) 1/2" INSULATION. 48) 1/2" INSULATION. 49) 1/2" INSULATION. 50) 1/2" INSULATION. 51) 1/2" INSULATION. 52) 1/2" INSULATION. 53) 1/2" INSULATION. 54) 1/2" INSULATION. 55) 1/2" INSULATION. 56) 1/2" INSULATION. 57) 1/2" INSULATION. 58) 1/2" INSULATION. 59) 1/2" INSULATION. 60) 1/2" INSULATION. 61) 1/2" INSULATION. 62) 1/2" INSULATION. 63) 1/2" INSULATION. 64) 1/2" INSULATION. 65) 1/2" INSULATION. 66) 1/2" INSULATION. 67) 1/2" INSULATION. 68) 1/2" INSULATION. 69) 1/2" INSULATION. 70) 1/2" INSULATION. 71) 1/2" INSULATION. 72) 1/2" INSULATION. 73) 1/2" INSULATION. 74) 1/2" INSULATION. 75) 1/2" INSULATION. 76) 1/2" INSULATION. 77) 1/2" INSULATION. 78) 1/2" INSULATION. 79) 1/2" INSULATION. 80) 1/2" INSULATION. 81) 1/2" INSULATION. 82) 1/2" INSULATION. 83) 1/2" INSULATION. 84) 1/2" INSULATION. 85) 1/2" INSULATION. 86) 1/2" INSULATION. 87) 1/2" INSULATION. 88) 1/2" INSULATION. 89) 1/2" INSULATION. 90) 1/2" INSULATION. 91) 1/2" INSULATION. 92) 1/2" INSULATION. 93) 1/2" INSULATION. 94) 1/2" INSULATION. 95) 1/2" INSULATION. 96) 1/2" INSULATION. 97) 1/2" INSULATION. 98) 1/2" INSULATION. 99) 1/2" INSULATION. 100) 1/2" INSULATION.

TAG	MANUF.	MODEL	CFM	ESP INCH WC	HYDRONIC HEAT COIL MBH-OUT	BLOWER HP	INLET WATER HP	MCA	VOLTS/PH	MAX RISE	WEIGHT LBS	NOTES		
FC-01	AIR-MARK	GF1 18/15	650	0.3	3.05	3.5	1/2	1/40	140	4.1	151/1	15	1000	13,4,5,6,7,8,9,10,11
FC-02	AIR-MARK	GF1 24/25	800	0.3	3.53	3.5	1/2	1/40	140	4.1	151/1	15	1000	13,4,5,6,7,8,9,10,11
FC-03	AIR-MARK	GF1 30/31	1050	0.3	3.91	3.5	1/2	1/40	140	4.1	151/1	20	1200	13,4,5,6,7,8,9,10,11
FC-04	AIR-MARK	GF1 18/15	650	0.3	3.05	3.5	1/2	1/40	140	4.1	151/1	15	1000	2,3,4,5,6,7,8,9,10,11,12
FC-05	AIR-MARK	GF1 24/25	800	0.3	3.53	3.5	1/2	1/40	140	4.1	151/1	15	1000	2,3,4,5,6,7,8,9,10,11,12
FC-06	AIR-MARK	GF1 30/31	1050	0.3	3.91	3.5	1/2	1/40	140	4.1	151/1	20	1200	2,3,4,5,6,7,8,9,10,11,12

ELECTRIC HEATER SCHEDULE

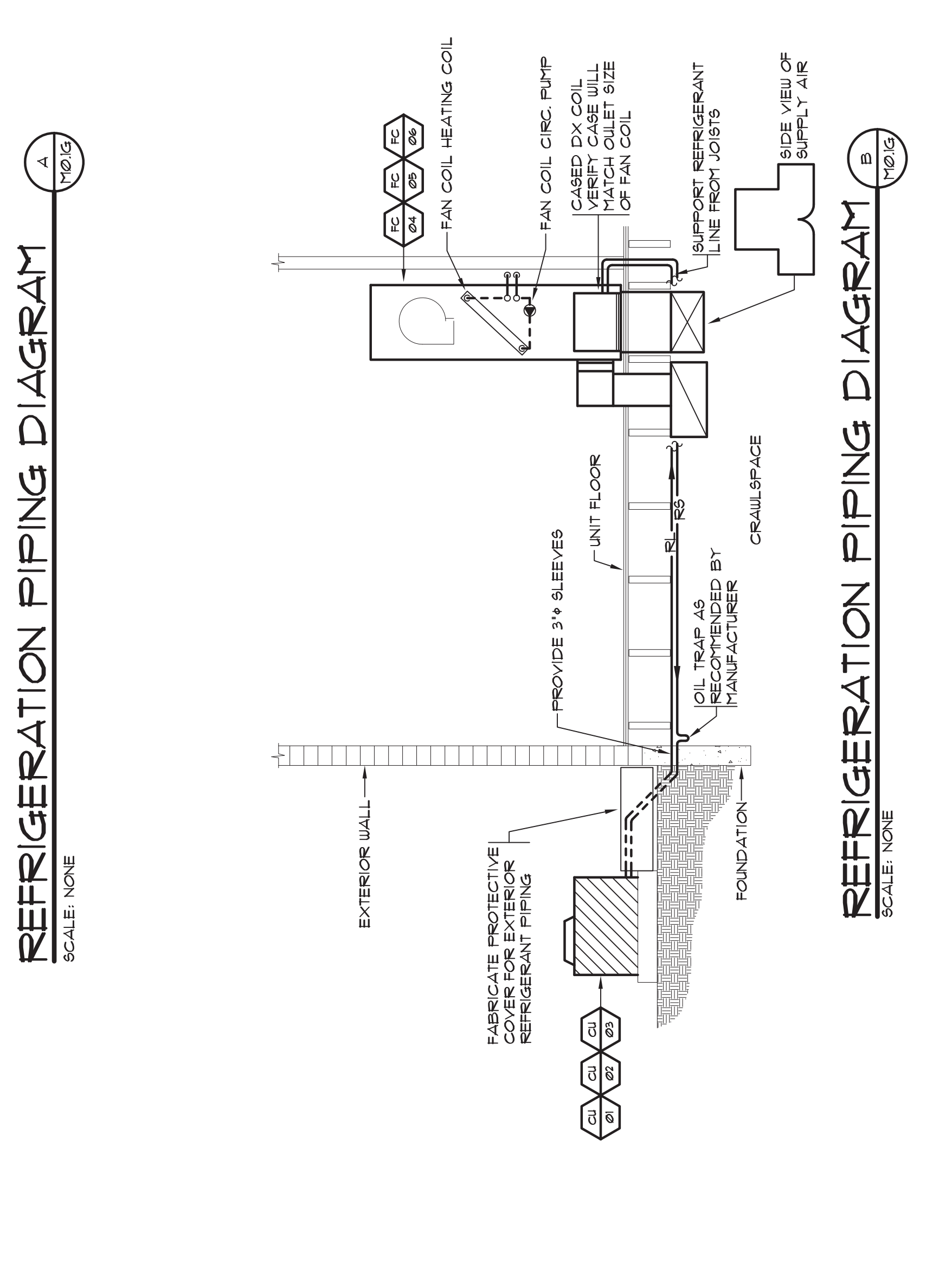
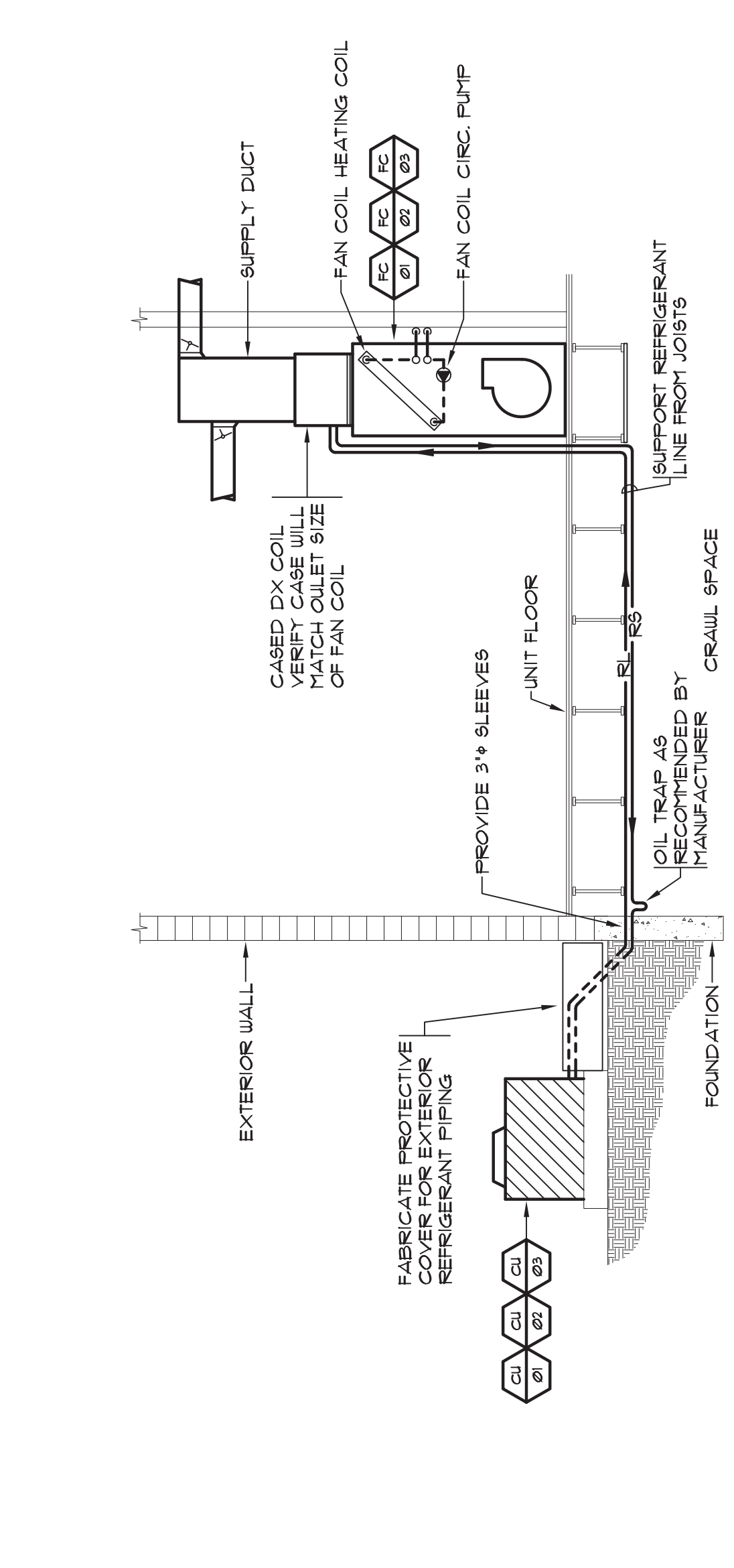
NOTES: 1) INTEGRAL THERMOSTAT. 2) 80%HI-RECEIVED MOUNT. 3) DISCONNECT SWITCH. 4) MOUNT 12" AFF. 5) HEAVY DUTY GRILLE.

TAG	MANUFACTURER	MODEL	KW	BTU	VOLTS/PH	NOTES
EH-01	RATWALL	E3327D-RP	15	5100	120/1	1, 2, 3, 4

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

NOTES: 1) STANDARD FACTORY BROUW FINISH. 2) VOLUME DAMPER. 3) SEE DRAWINGS FOR NECK SIZE AND AIR QUANTITY.

TAG	MANUF.	MODEL	DESCRIPTION	NOTES
A	HART & COOLEY	4120/41	SUPPLY DIFFUSER, 2-WAY DEFLECTION, STEEL CONSTRUCTION, FLOOR MOUNT	1, 2, 3
B	HART & COOLEY	650	RETURN GRILLE, 35° DEFLECTION, 1/2" SPACING, STEEL CONSTRUCTION, SIDEWALL MOUNT	1, 3

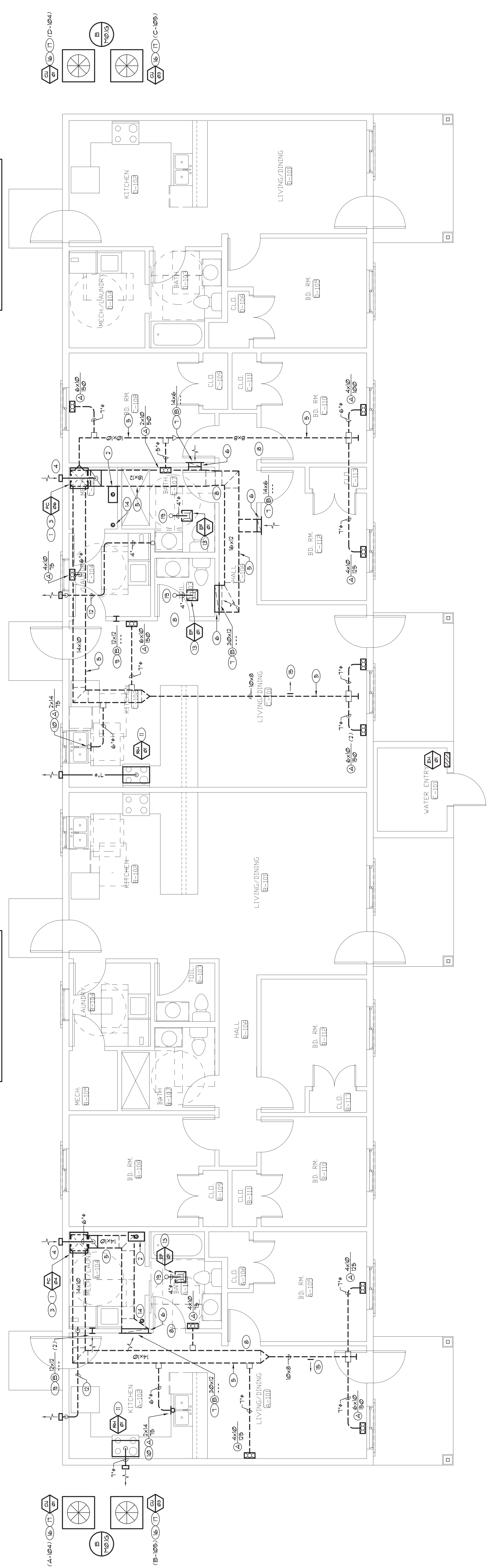


WORK NOTES (THIS SHEET ONLY)

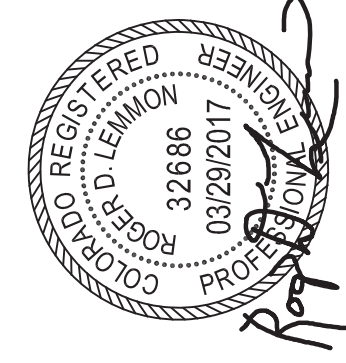
1. FAN COIL UNIT TO BE SUPPLIED BY MECHANICAL (HVAC) CONTRACTOR. VERIFY ALL CONNECTIONS WITH MANUFACTURERS RECOMMENDATIONS. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. TANKLESS WATER HEATER TO BE VENTED THROUGH THE ROOF BY PLUMBING CONTRACTOR USING CONCENTRIC POLYPROPYLENE COCA AND ELBE THROUGH THE ROOF. VERIFY ALL CONNECTIONS WITH MANUFACTURERS RECOMMENDATIONS.
3. FAN COIL UNIT HAS A HYDRONIC HEATING COIL. SEE MANUFACTURERS RECOMMENDATIONS FOR CONNECTION REQUIREMENTS TO TANKLESS WATER HEATER.
4. 6" INSULATED OA DUCT RUNNING HIGH TO THE OUTSIDE WALL. TERMINATE WITH A WEATHER CAP. THIS MUST BE 6 FEET AWAY FROM ANY EXHAUST.
5. ALL SA AND RA DUCTWORK TO BE ROUTED IN THE CRAWL SPACE. URAP DUCT WITH 1 1/2" OF FIBERGLASS INSULATION WITH VAPOUR BARRIER.
6. FAN JOISTS FOR RA OPENINGS.
7. MOUNT RA GRILLE HIGH IN WALL.
8. UNDERCUT DOOR BY APPROXIMATELY 1".
9. ID#12 TRANSFER AIR DUCT FOR DRYER. LOCATE HIGH IN WALL.
10. MOUNT IN CABINET TOE-KICK.
11. INSTALL BRASS WOOD WITH DUCT TERMINATING HIGH ON OUTSIDE WALL WITH WEATHER CAP.
12. RUN DRYER VENT IN CRAWL SPACE TURN UP IN OUTSIDE WALL. TERMINATE 18" ABOVE GRADE WITH A DRYER VENT CAP. KEEP APPROXIMATELY 12" DISTANCE FROM OA INTAKE.
13. INSTALL ALL COMPONENTS ACCORDING TO MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH MECHANICAL CONTRACTOR. RA GRILLE POSITION ON LOW BUT WILL INCREASE TO HIGH WITH SWITCH.
14. INSTALL 4" ROUND DUCT FROM THE CRAWL SPACE TO THE ROOF. TERMINATE WITH A ROOF CAP.
15. INSTALL A 3" BRASS IN THE SA DUCT WITH A BALANCING DAMPER. THIS IS TO PROVIDE APPROXIMATELY 30 CFM OF SA FOR CRAWL SPACE VENTILATION. THIS MEETS THE 0.2 CFM/SF REQUIREMENT.
16. SET THE CONDENSING UNIT ON A 3" LEVEL EQUIPMENT PAD.
17. PROVIDE LINE SETS SIZED PER MANUFACTURERS RECOMMENDATIONS. COVER BOTH LIQUID AND SUCTON LINES WITH CLOSED CELL INSULATION THEN URAP WITH 1" POLYURETHANE INSULATION. THE URAP SHOULD BE SET ON FOUNDATION APPROXIMATELY 9" BELOW GRADE WITH 1/2" DIAMETER PIPES.
18. RUN 4" DRYER VENT DIRECTLY TO OUTSIDE WALL. TERMINATE 18" ABOVE GRADE WITH A DRYER VENT CAP.
19. RUN EA DUCT UP THROUGH ROOF. THEN TERMINATE WITH A ROOF CAP.

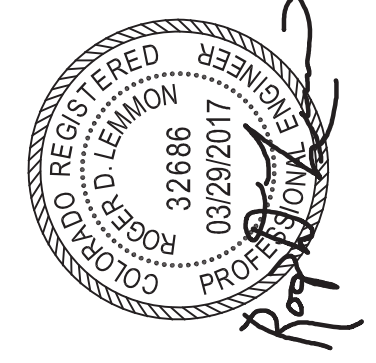
CONSTRUCT HVAC SYSTEMS/COMPONENTS AS THE THICKER IMAGE OF ART. C

CONSTRUCT HVAC SYSTEMS/COMPONENTS AS THE THINNER IMAGE OF ART. A



1st FLOOR - BLDG G - HVAC
SCALE: 1/4" = 1'-0"





DRAWING INDEX		REVISIONS											
NUMBER	DRAWING TITLE												
P01G	DRAWING INDEX, GENERAL NOTES AND LEGENDS												
P02G	SCHEDULES AND DIAGRAMS												
P1G	CEILING SPACE AND FIRST FLOOR - BUILDING G - PLUMBING												

GENERAL NOTES - PLUMBING

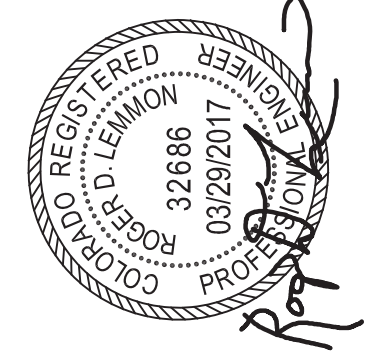
- COORDINATE THE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES. OFFSET PIPING AS NECESSARY TO AVOID CONFLICTS WITH OTHER WORK AND STRUCTURAL ABOVE CEILING AND/OR BELOW FLOOR.
- VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES AT SITE PRIOR TO INSTALLATION OF ANY PIPING SYSTEMS.
- RESOLVE ALL QUESTIONS OR CONFLICTS WITH THE ENGINEER BEFORE ANY EQUIPMENT IS ORDERED. MATERIALS FABRICATED OR SYSTEMS INSTALLED.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF THE PLUMBING FIXTURES.
- SEAL ROOF PENETRATIONS WATERTIGHT WITH ROOF SYSTEM COMPATIBLE WITH ROOFING.
- ALL PIPING PENETRATIONS THROUGH FLOORS SHALL BE SEALED WATER TIGHT BY GROUTING PERIMETER GAP BETWEEN PIPE AND FLOOR STRUCTURE. OR BY USING APPROVED UL SLEEVE AND SEALER SYSTEM. PENETRATIONS OF RATED WALLS SHALL USE SLEEVE WITH UL APPROVED FIRE SEALANT.
- DOMESTIC WATER PIPING LOCATED IN CRAWL SPACE OF BUILDINGS SHALL BE TYPE "L" HARD COPPER WITH UROUGHT COPPER FITTINGS. NO LEAD SOLDER OR "PROPPERS" TO BE USED FOR FITTINGS THROUGHOUT.
- PIPING WITHIN UNIT CONNECTING FIXTURES FROM POINT IN MECHANICAL CLOSETS INDICATED ON PLANS SHALL BE CROSS LINKED PEK PIPING WITH SPECIFIC MANUFACTURER FITTINGS.
- INSULATE ALL DOMESTIC WATER PIPING PER INSULATION SCHEDULES SHOWN IN PROJECT SPECIFICATIONS.
- WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC RIV. WITH SOLVENT GENERATED FITTINGS. SLOPE ALL WASTE PIPING AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PVC PIPING SHALL NOT BE USED IN RETURN AIR PLenums.
- MAINTAIN THE UNIFORM SLOPE SHOWN ON THE PLANS FOR THE SANITARY SEWER, STORY DRAIN AND CONDENSATE DRAIN PIPING SYSTEMS.
- SUPPORT ALL CAST IRON SOIL PIPE, PVC PIPING, COPPER PIPE AND STEEL PIPE RISERS AT EVERY STORY MINIMUM.
- ALL SANITARY VENTS SHALL BE LOCATED MINIMUM 10'-0" FROM BUILDING OUTSIDE AIR INTAKES.
- INSTALLATION SHALL CONFORM TO 2009 INTERNATIONAL PLUMBING CODE, APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND APPLICABLE SECTIONS OF THE PUEBLO BUILDING CODE.

FIRE PROTECTION NOTES

- PROVIDE A NEW HYDRULICALLY CALCULATED FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST EDITIONS OF IBC, UPC, AND **NFPA 13B**. COVERAGE WILL INCLUDE LIVING SPACES, MECHANICAL SPACES AND ATTIC SPACES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SYSTEM AND SHALL FURNISH TO THE ARCHITECT ALL DESIGN CALCULATIONS, SCHEDULES, AND CATALOG DATA OF ALL EQUIPMENT AS PART OF REQUIRED SUBMITTAL DATA IN SPECIFICATIONS. REFER TO SHEETS P3 AND P4.
- SWAP DRAWINGS SHALL INDICATE THE LOCATION OF ALL SPRINKLER HEADS AND RISERS, COORDINATED WITH THE LOCATION OF ALL STRUCTURAL MEMBERS, HVAC EQUIPMENT, LIGHT FIXTURES, CEILING DIFFUSERS, REGISTERS, AND PIPING.
- THE RISK OF OVERHEATING AND INSTABILITY OF THE PROTECTION SYSTEMS IS A RISK IN ITSELF AND SHALL BE REQUIRED ONLY BY FULLY SKILLED, EXPERIENCED AND RESPONSIBLE ARTISERS. THE PROTECTIVE FIRE PROTECTION CONTRACTOR MAY BE REQUIRED TO BRING TO THE SATISFACTION OF THE ARCHITECT, SUCH SKILL, EXPERIENCE, AND RESPONSIBILITY.
- PERFORM WORK IN STRICT COMPLIANCE WITH THESE SPECIFICATIONS AND DRAWINGS. THE REQUIREMENTS OF THE STATE CERTIFIED SUPERVISOR, INSPECTOR AND ALL APPLICABLE CODES, ORDINANCES, STANDARDS AND STATUTES IN EFFECT AT THE BUILDING SITE.
- ADHERE TO THE MOST RECENT EDITION OF THE FOLLOWING PUBLICATIONS, TOGETHER WITH THE LATEST REVISIONS, SUPPLEMENTS, AND AMENDMENTS THERE TO:
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 13.
 - INTERNATIONAL FIREMARTING CODE (IFM).
 - CITY OF PUEBLO FIRE AUTHORITY.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS PRIORS TO STARTING WORK. OBTAIN CERTIFICATES, APPROVALS, AND/OR ACCEPTANCES OF ALL INTERESTED PARTIES AND AUTHORITIES HAVING JURISDICTION.
- PIPING TO BE IRON, STEEL OR VC. WEIGHTS AND SIZES APPROVED BY NFPA 13 FOR USE IN FIRE PROTECTION SYSTEMS. FITTINGS SHALL BE APPROVED FOR USE WITH THE INSTALLED SPRINKLER PIPING WITH A MINIMUM WORKING PRESSURE OF 175 PSI.
- NOTIFY OWNER, ARCHITECT AND ALL AUTHORITIES HAVING JURISDICTION, NOT LESS THAN SEVEN (7) HOURS PRIOR TO FINAL TESTING. DO NOT COMPLETE TESTING UNTIL ALL NECESSARY PERMITS AND APPROVALS ARE OBTAINED. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. PROVIDE ALL NECESSARY PERSONNEL, CORRECT ALL DEFECTS, DEFICIENCIES, REPAIR ALL LEAKS AND RE-TEST AS REQUIRED.

ABBR.	SYMBOL	DESCRIPTION
SU, CU, NP	—SU—	SOFT, COLD AND NON-POTABLE WATER PIPING
F	—F—	FIRE PROTECTION PIPING
HU, HUC	—HU— (140°F)	HOT WATER AND HOT WATER CIRCULATING PIPING
G	—G— (140°F)	PRESSURE GAS PIPING
V, VO	—V—	VENT AND FUEL OIL VENT PIPING
SS, GSS	—SS—	SANITARY SEWER AND GREASE SANITARY SEWER PIPING
SD, OSD	—SD—	STORY DRAIN AND OVERFLOW STORY DRAIN PIPING
RD, ORD	—RD—	FLOOR DRAIN LEADER, OVERFLOW DRAIN LEADER
FCO, WCO, COG	—FCO—	FLOOR CLEANOUT WALL CLEANOUT AND CLEANOUT TO GRADE PIPING TO BE REMOVED
	—UN—	UNION FLANGE BUND FLANGE
	—BV—	BOY GATE VALVE, BALL VALVE, GLOBE VALVE, BUTTERFLY VALVE
	—CV—	CHECK VALVE, STRAINER
	—LV—	FLUG VALVE, CALIBRATED AND DYNAMIC BALANCING VALVES
	—L—	LUBRICATED PLUG VALVE
PRV	—PRV—	PRESSURE REDUCING VALVE
	—3W—	THREE WAY CONTROL VALVE, SOLENOID AND TWO-WAY / MOTORIZED CONTROL VALVE
RFPP	—RFPP—	REDUCED PRESSURE BACKFLOW PREVENTER
	—AR—	ANGLE RELIEF VALVE, GANGE AND COCK, THERMOMETER
	—T—	TEST PLUG
AAV / HAV, HEV	—AAV—	HOSE END DRAIN VALVE, AUTOMATIC AIR / MANUAL AIR VENT
HB, WH	—HB—	HOSEBIB, FROSTPROOF WALL HYDRANT, DOWN SPOUT NOZZLE
	—E—	PIPE ELBOW, DOWN PIPE, PIPE TEE, DOWN PIPE, PIPE TEE UP, PIPE ELBOW UP
	—A—	PIPE ANCHOR, PIPE GUIDE, PIPE SLEEVE
VTR	—VTR—	FLEX CONNECTION, PIPE EXPANSION JOINT
IE	—IE—	VENT THRU ROOF
E, R, N	—E—	EXISTING, RELOCATED AND NEW
	—W—	WORK NOTE 1, REVISION NO. 1, DEMOLITION NOTE 1, POINT OF CONNECTION
	—S—	SECTION A ON SHEET M-1 DIAGRAM 1 ON SHEET M-1 RISER R-1 ON SHEET M-1
	—E—	FIXTURE OR EQUIPMENT TAG

ABBR.	SYMBOL	DESCRIPTION
SU, CU, NP	—SU—	SOFT, COLD AND NON-POTABLE WATER PIPING
F	—F—	FIRE PROTECTION PIPING
HU, HUC	—HU— (140°F)	HOT WATER AND HOT WATER CIRCULATING PIPING
G	—G— (140°F)	PRESSURE GAS PIPING
V, VO	—V—	VENT AND FUEL OIL VENT PIPING
SS, GSS	—SS—	SANITARY SEWER AND GREASE SANITARY SEWER PIPING
SD, OSD	—SD—	STORY DRAIN AND OVERFLOW STORY DRAIN PIPING
RD, ORD	—RD—	FLOOR DRAIN LEADER, OVERFLOW DRAIN LEADER
FCO, WCO, COG	—FCO—	FLOOR CLEANOUT WALL CLEANOUT AND CLEANOUT TO GRADE PIPING TO BE REMOVED
	—UN—	UNION FLANGE BUND FLANGE
	—BV—	BOY GATE VALVE, BALL VALVE, GLOBE VALVE, BUTTERFLY VALVE
	—CV—	CHECK VALVE, STRAINER
	—LV—	FLUG VALVE, CALIBRATED AND DYNAMIC BALANCING VALVES
	—L—	LUBRICATED PLUG VALVE
PRV	—PRV—	PRESSURE REDUCING VALVE
	—3W—	THREE WAY CONTROL VALVE, SOLENOID AND TWO-WAY / MOTORIZED CONTROL VALVE
RFPP	—RFPP—	REDUCED PRESSURE BACKFLOW PREVENTER
	—AR—	ANGLE RELIEF VALVE, GANGE AND COCK, THERMOMETER
	—T—	TEST PLUG
AAV / HAV, HEV	—AAV—	HOSE END DRAIN VALVE, AUTOMATIC AIR / MANUAL AIR VENT
HB, WH	—HB—	HOSEBIB, FROSTPROOF WALL HYDRANT, DOWN SPOUT NOZZLE
	—E—	PIPE ELBOW, DOWN PIPE, PIPE TEE, DOWN PIPE, PIPE TEE UP, PIPE ELBOW UP
	—A—	PIPE ANCHOR, PIPE GUIDE, PIPE SLEEVE
VTR	—VTR—	FLEX CONNECTION, PIPE EXPANSION JOINT
IE	—IE—	VENT THRU ROOF
E, R, N	—E—	EXISTING, RELOCATED AND NEW
	—W—	WORK NOTE 1, REVISION NO. 1, DEMOLITION NOTE 1, POINT OF CONNECTION
	—S—	SECTION A ON SHEET M-1 DIAGRAM 1 ON SHEET M-1 RISER R-1 ON SHEET M-1
	—E—	FIXTURE OR EQUIPMENT TAG

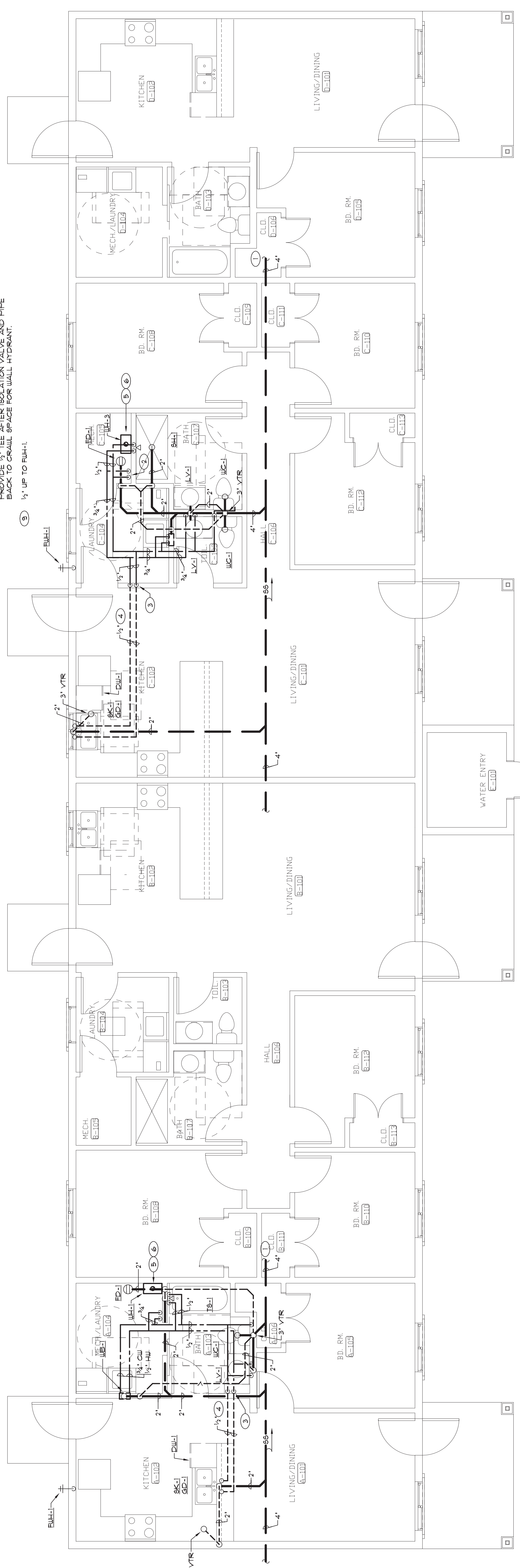


- WORK NOTES (1st FLOOR PLAN ONLY)**
1. 4" SANITARY. REFER TO CRAWL SPACE PLUMBING SHEETS AND CIVIL FOR ACTUAL BUILDING MAIN DIRECTION OF FLOW.
 2. 3/4" CUPHU UNIT SUPPLIES. ROUTE IN COPPER, THEN TRANSITION TO PE-X IN CEILING AND TO FIXTURES. PROVIDE INTENT AIR ACCESS ISOLATION VALVES.
 3. 1/2" CUPHU DOWN WALL TO CRAWL SPACE.
 4. 1/2" CUPHU ROUTED IN CRAWL SPACE TO KITCHEN SINK.
 5. ROUTE PIPING IN CRAWL SPACE.
 6. WATER HEATER TO VENT TO BE PIPED VERTICALLY TO ROOF. REFER TO MECHANICAL SHEETS FOR VENTING REQUIREMENTS. REFER TO VENTING DIAGRAMS ON SHEET P02.6.

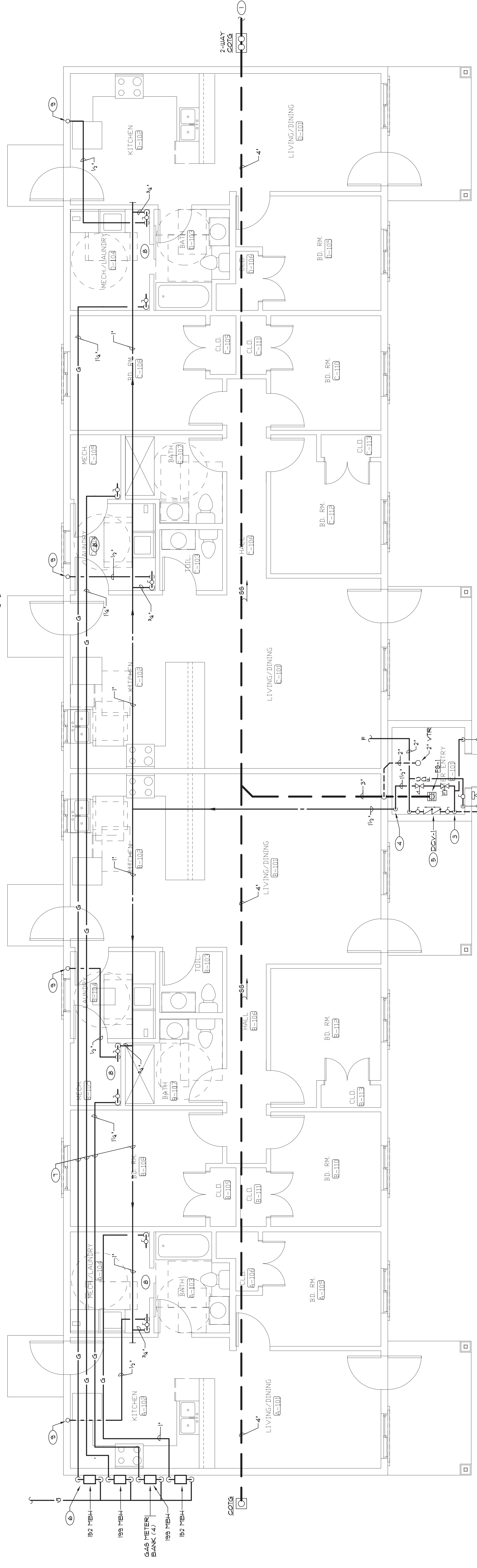
CONSTRUCT PLUMBING SYSTEMS/COMPONENTS AS THE MIRROR IMAGE OF APT. A.

- WORK NOTES (CRAWL SPACE ONLY)**
1. REFER TO CIVIL PLANS TO COORDINATE THE ACTUAL SANITARY DIRECTION FOR OUTFLOW FOR THIS SPECIFIC UNIT. THE SANITARY DIRECTION MAY NOT BE THE SAME FOR EACH OF THIS BUILDING TYPE.
 2. REFER TO CIVIL FOR CONTINUATION.
 3. FIRE/DOMESTIC WATER ENTERS WATER ENTRY ROOM FROM BELOW GRADE.
 4. DOMESTIC WATER SERVICE DOWN AND INTO CRAWL SPACE. DOMESTIC WATER PIPING IN CRAWL SPACE TO BE TYPE "L" COPPER.
 5. WATER AND FIRE RISERS LOCATED IN WATER ENTRY ROOM. SEE RISER DIAGRAMS ON SHEET P02.6.
 6. INDIVIDUAL GAS METERS FOR EACH UNIT. SERVICE TO METERS BY UTILITY CONTRACTOR.
 7. GAS AND WATER PIPING IN CRAWL SPACE. COORDINATE WITH HVAC CONTRACTOR.
 8. GAS AND WATER TO STUB UP INTO UNIT MECHANICAL ROOM. PROVIDE 1/2" TEE AFTER ISOLATION VALVE AND PIPE BACK TO CRAWL SPACE FOR WALL HYDRANT.
 9. 1/2" UP TO RUM-1.

CONSTRUCT PLUMBING SYSTEMS/COMPONENTS AS THE MIRROR IMAGE OF APT. C.



1st FLOOR - BLDG G - PLUMBING
 SCALE: 1/4" = 1'-0"



CRAWL SPACE FLOOR - BLDG G - PLUMBING
 SCALE: 1/4" = 1'-0"

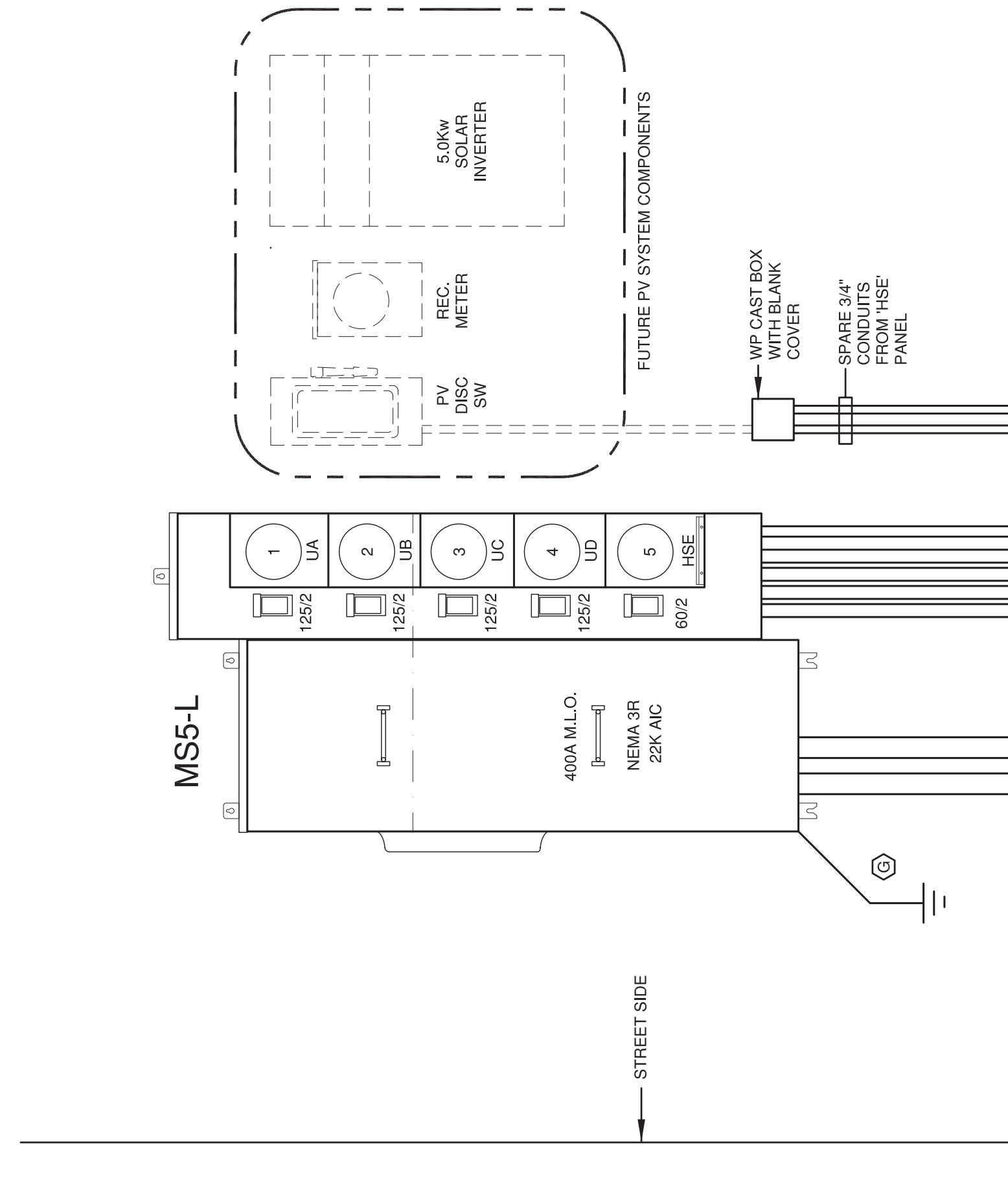
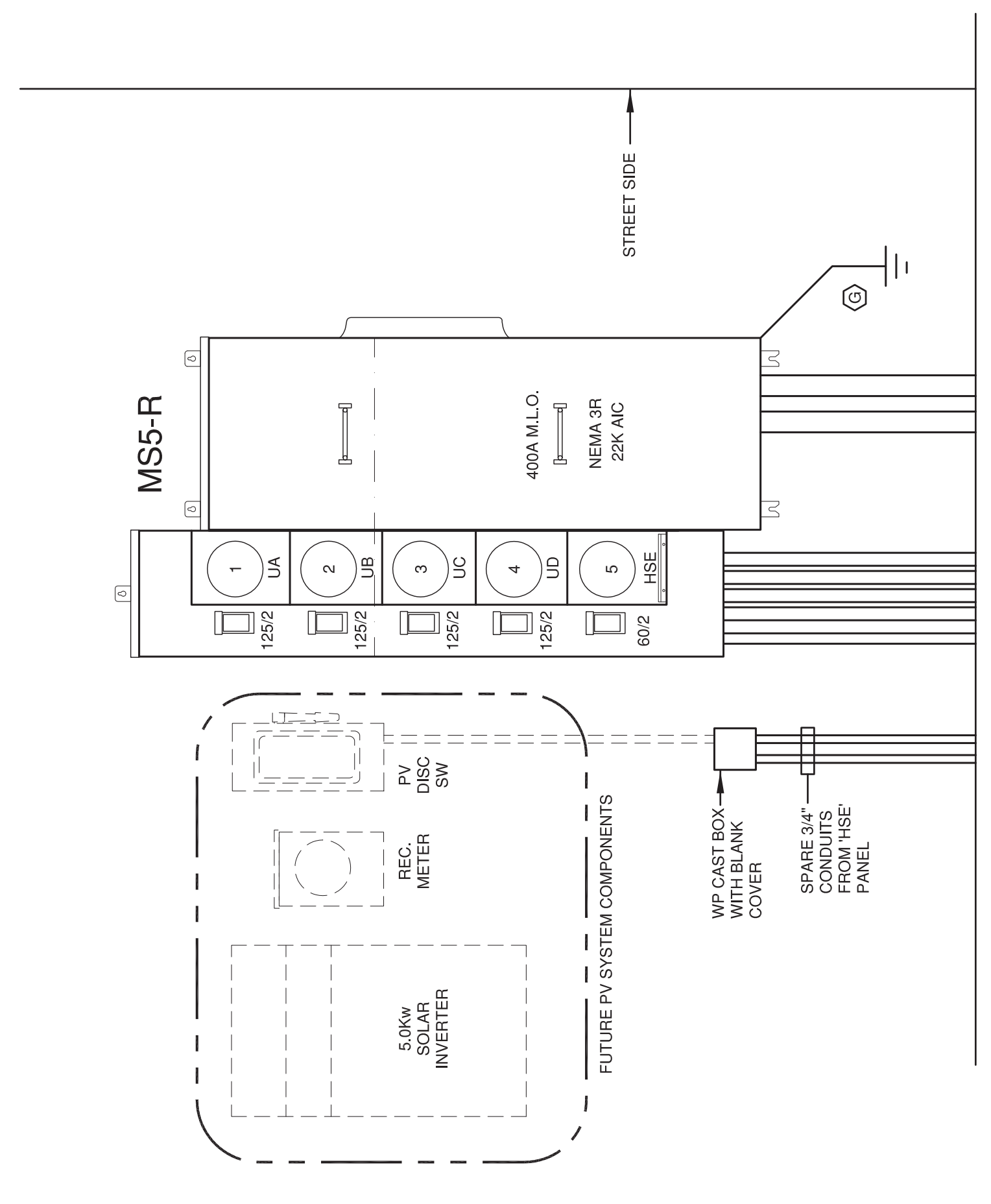
Meterstacks MS5 Style

SOUNDING ELECTRODE SYSTEM
 PROVIDE A 1/8" GROUNDING
 ELECTRODE, USER GROUND AND
 FINAL CONNECTION TO COLD WATER
 ENTRY.

FEEDER SCHEDULE:
 SERVICE LATERAL METERS TO XMR
 2 SETS PARALLEL (3850.4 @ 2.12°C.)
 TYPICAL UNIT PANEL
 381.0, 489, 1.12°C.
 TYPICAL HOUSE PANEL
 3865.0, 489, 1°C.

GENERAL NOTE:
 LABEL BREAKERS AS SERVICE
 DISCONNECTS 1, 2, 3, 4, 5

SCHEDULE FOR PANEL HSE				
VOLTS/PHASE/WIRE	120/240/1PH-3W			
MOUNTING	SUBRACE			
MAIN DEVICE	600A MLO			
S.C. RATING	10000 AIC			
NOTES: * Indicates Circuit may be used for Site Lighting Re: ES1.3 for Building's Used. Max. 350V				
PHASE A (kVA)	2.9			
PHASE B (kVA)	0.9			
PHASE C (kVA)	3.79			
Duty/Demand Load is Calculated Per NEC: 1.4k, 2.0k, 1.5k, 1.0k, 0.5k, 0.1k, 0.05k				
CONNECTED KVA 3.28				
LOAD FACTOR 1.16				
DUTY/DEMAND KVA 3.79				
AVERAGE AMPS/LEG BASED ON DUTY/DEMAND KVA 15.8				
#	DESCRIPTION	UNIT	DESCRIPTION	NO. CIRCUITS
1	1000 Break Panel Breaker	1000	1000 Break Panel Breaker	1
2	1/2" 1/2" 20/1 A	20/1	1/2" 1/2" 20/1 B	2
3	1/2" 1/2" 20/1 A	20/1	1/2" 1/2" 20/1 B	2
4	1/2" 1/2" 20/1 A	20/1	1/2" 1/2" 20/1 B	2
5	Mech: Wt. Entry	1,500	20/1 A	20/1
6	Spone	20/1 B	A	1
7	Spone	20/1 B	B	1
8	Spone	20/1 B	A	1
9	Spone	20/1 B	B	1
10	Spone	20/1 B	A	1
11	Spone	20/1 B	B	1
12	Spone	20/1 B	A	1
ENCLOSURE TYPE: NEMA 1		BREAKER TYPE: PLUG ON		NO. CIRCUITS: 12
CLASS OF EQUIPMENT: LOADCENTER				



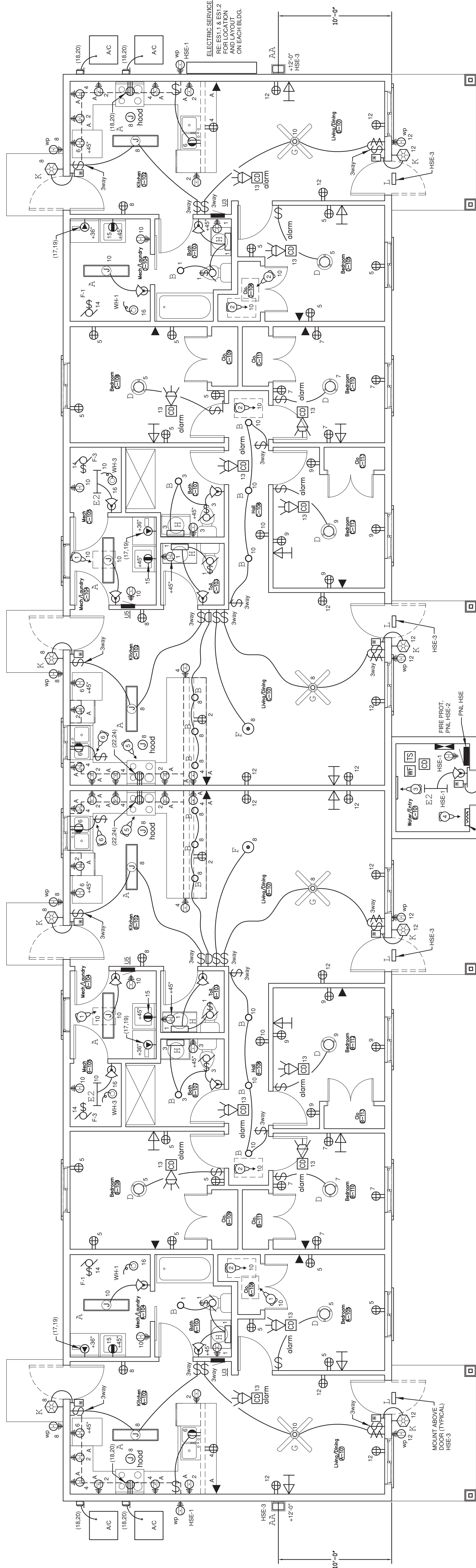
Load Type	Load Code	Conn Kva	Demand Factor	Dmd Kva
Lighting	Ltg	0.5	125%	0.6
Gen Use Rec	Rec	0.5	10-50%	0.5
Mechanical Equip	Mech	1.5	125%	1.9
General Lighting	GL	48.4	3-35%	18.9
Dryer	D	20.0	100%	20.0
Range	RG	32.0	50%	16.0
Other	Other	23.5	100%	23.5
Demand Kva			Demand Kva	81.4
Demand Amps			Demand Amps	339.1

Notes:
 1. HOUSE LOADS 'Ltg', 'Rec', 'Mech'
 2. UNIT LOADS 'GL', 'D', 'RG', 'Oth'

TYPE	DESCRIPTION & MANUFACTURE CATALOGUE NUMBERS	NOTES	FINISH	LOCATION	LAMP(S) NO.	TYPE
A	NOMINAL 18" x 24" x 4" LENS FLUORESCENT FIXTURE WITH MEDIUM OAK FINISH, FROSTED WHITE ACRYLIC LENS AND 120V ELECTRONIC BALLAST. LIGHTING #55361LE-15 OR APPROVED EQUIVALENT.	1	WHITE	KITCHEN	4	82 CRI F32T9/530 3000 Deg K
B	6" ROUND IC RATED LED CAN LIGHT WITH 30K LAMP COLOR AND WHITE TRIM RING. #100BLUM/3000 Deg K OR APPROVED EQUIVALENT.	1	WHITE	VARIOUS	-	100BLUM/3000 Deg K
C	NOMINAL 8" DIAMETER SURFACE MOUNTED (ROUND) LED STANDARD HIGH IMPACT POLYCARBONATE DIFFUSER. COLUMBA #RESLEDA18L-30K-9-WH-800L OR APPROVED EQUIVALENT.	1	WHITE	VARIOUS	-	18W/840LUM/3000 Deg K
D	SURFACE MOUNTED NOMINAL 15" DIA. x 5.5" HIGH FLUORESCENT FIXTURE WITH BRUSHED NICKEL TRIM AND SEA GULL LIGHTING #7594ABE-82 OR APPROVED EQUIVALENT.	1	NICKEL	VARIOUS	3	80 CRI 13W-G24 3000 Deg K
E	6" LAMP WITH MOUNTED OPEN FLUORESCENT STRIP WITH PROGRESS LIGHTING #77286-30EB OR APPROVED EQUIVALENT.	1	B.W.E.	LAUNDRY	2	82 CRI F32T8 3000 Deg K
F	SURFACE MOUNTED NOMINAL 17" DIA. x 5" HIGH FLUORESCENT FIXTURE WITH BRUSHED NICKEL TRIM AND STORED ALUMINUM STYLE GLASS. SEA GULL LIGHTING #7594ABE-92 OR APPROVED EQUIVALENT.	1	NICKEL	DINING	2	80 CRI 13W-G24 3000 Deg K
G	SURFACE MOUNTED 18" DIA. SEILING CAN WITH (S) BRUSHED NICKEL FINISH AND LIGHT KIT WITH SWIRL ALUMINUM STYLE GLASS. SEA GULL LIGHTING #7594ABE-92 OR APPROVED EQUIVALENT.	1	WHITE	LIVING	2	80 CRI 13W-G24 3000 Deg K
H	24" WIDE OVER MIRROR LIGHT WITH BRUSHED NICKEL FINISH AND WHITE TEXTURED POLYCARB. KICHLER #8300K-11142NILED OR APPROVED EQUIV.	1	NICKEL	RESTROOMS	-	20W/141LUM 3000 Deg K
J	1. LIGHT DECORATIVE SCENCE WITH FLUOR. BULB, NICKEL FINISH AND WHITE GLASS. SEA GULL LIGHTING #49038BE-999 OR APPROVED EQUIVALENT.	1	NICKEL	HALL	1	80 CRI 13W-G24 3000 Deg K
K	SMALL LED EXTERIOR WALL SCENCE OPERATED VIA ASTRONOMICAL TIME SWITCH. KICHLER # 8300K-42783XLED OR APPROVED EQUIV.	1	BY ARCH	EXTERIOR	-	8W/7200 Lum 3000 Deg K
L	DARK GRAY CONDUIT LED ADDRESS LIGHT OPERATED VIA ASTRONOMICAL TIME SWITCH. MOUNT LV TRANSFORMER IN ACCESSIBLE SPACE. KICHLER # 8300K-42783XLED OR APPROVED EQUIV.	1	BY ARCH	EXTERIOR	-	8W/141LUM 3000 Deg K
AA	EXTERIOR LED WALL SCENCE WITH TYPE III HUBBEL #TRP-12-15-367-3-U-XX-POU OR APPROVED EQUIVALENT.	1	BY ARCH	EXTERIOR	-	15W/1477LUM/3000 Deg K
BB	EXTERIOR SMALL LED WALL SCENCE OPERATED VIA ASTRONOMICAL TIME SWITCH. KICHLER # 8300K-42783XLED OR APPROVED EQUIV.	1	BY ARCH	EXTERIOR	-	8W/492LUM/3000 Deg K

NOTES:
 1. SUBSTITUTIONS PRIOR TO BID REQUIRED. ENGINEER MUST RECEIVE PRODUCT DATA 10 DAYS PRIOR TO BID - ONLY PRODUCT LISTED IN AN ADDENDUM WILL BE ACCEPTED.
 FIXTURES TO BE ENERGY STAR RATED OR UTILIZE ENERGY EFFICIENT LAMPS AS LISTED IN ADDENDUM.

SYMBOL LEGEND	
20A-1P LIGHT SWITCH MOUNTED AT +45" A.F.F.	20A, 3 WAY SWITCH MOUNTED AT +45" A.F.F.
WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR MOUNTED AT +45" A.F.F.	WATSTOPPER #J5W-301 OR APPROVED EQUIVALENT.
WALL MOUNTED FAN SWITCH MOUNTED AT +45" A.F.F.	WALL MOUNTED ASTRONOMICAL TIME CLOCK ON/OFF FUNCTION MOUNTED AT +45" A.F.F.
WATSTOPPER #RT-200 OR APPROVED EQUIVALENT.	20A TAMPER RESISTANT DUPLEX RECEPTACLE WITH ONE-HALF SWITCHED FOR DISPOSER & DISHWASHER. MOUNT BELOW COUNTER.
15A TAMPER RESISTANT GROUND FAULT CIRCUIT INTERRUPT TYPE DUPLEX RECEPTACLE MOUNT AT +45" A.F.F. UNLESS INDICATED OTHERWISE ON DRAWINGS.	15A TAMPER RESISTANT AFCI BREAKER PROTECTED (GENERAL USE) DUPLEX RECEPTACLE. MOUNTED AT +18".
30A-120/250V OUTLET FOR DRYER. GROUND PER NEC.	50A-120/250V OUTLET FOR RANGE. GROUND PER NEC. MOUNTING HEIGHT TO BE COORDINATED WITH EQUIPMENT INSTALLED.
CONNECTION FOR EXHAUST FAN. PROVIDE SNAP SWITCH NO THERMAL OVERLOAD MOUNT 6" MTR.	CONNECTION FOR FAN COIL UNIT. PROVIDE SNAP SWITCH WITH THERMAL OVERLOAD MOUNT 6" MTR.
CONNECTION FOR WATERHEATER. RE: MECHANICAL	HEAVY DUTY MOTOR DISCONNECT SWITCH FOR UNIT AIR CONDITIONING UNIT.
TELEPHONE OUTLET MOUNTED. PROVIDE A SINGLE GANG BACKBOX, BLANK PLATE AND 3/4" INTO ACCESSIBLE CRAWLSPACE OR AS OTHERWISE DIRECTED BY ARCHITECT.	CABLE TELEVISION OUTLET - PROVIDE SINGLE GANG BACKBOX, BLANK PLATE AND 3/4" INTO ACCESSIBLE CRAWLSPACE OR AS OTHERWISE DIRECTED BY ARCHITECT.
120V WIREB WIREB CONDUIT RECEPTACLE. SUPPLY DETECTOR/BACKUP CONDUIT WITH 9V BATTERY BACKUP AND ALARM. UNITS TO BE TANGEM WIREB WITHIN APT. UNIT TO SOUND ALARM'S SIMULTANEOUSLY.	120V HARD WIRED STROBE LIGHT WITH 9V BATTERY BACK UP. UNITS TO BE INTERCONNECTED WITH THE SMOKE/CARBON DETECTORS IN UNIT.
SYSTEM EXTERIOR WEATHER PROOF HORN/STROBE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND TIED INTO FIRE SPRINKLER SYSTEM. CONDUIT AND BOXES BY ELEC CONTRACTOR.	SYSTEM SMOKE DETECTOR PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR. CONDUIT AND BOXES BY ELEC CONTRACTOR.
WATERFLOW SWITCH/ES PROVIDED AND INSTALLED BY FIRE PROTECTION CONTRACTOR.	TAMPER SWITCH/ES PROVIDED AND INSTALLED BY FIRE PROTECTION CONTRACTOR.
SYMBOL ATTRIBUTES - 'A' = MOUNTED ABOVE COUNTER. RE: ARCHITECTURAL CASEWORK.	



ROOMS IN RED ARE PROTECTION DEVICES FROM COORDINATE EXACT REQUIREMENT WITH FIRE PROTECTION SYSTEM CONTRACTOR.

FINAL LAYOUT OF ROOM TO BE COORDINATED WITH CONTRACTOR. DO NOT RUN WATER LINES OVER POWER PANEL.

BLDG G - FIRST FLOOR - ELECTRICAL PLANS
SCALE: 1/4" = 1'-0"
N

SCHEDULE FOR PANEL U3

VOLTS/PHASE/WIRE: 120/240/1PH-3W
MOUNTING: FLUSH
MAIN DEVICE: 100A MLO
S.C. RATING: 10,000 AIC
NOTES: Provide with (1) each Spare 3/4" c. into Attic & Crawlspace
A: Indicates Ac. Fault Circuit Interrupt type Breaker.

Duty/Demand Load is Calculated Per NEC: 1. Up, Cmp, Htg, Mr & Ac at 125% Rec @ 10 + 50% and Oth @ 100%

PHASE A (KVA): 16.6
PHASE B (KVA): 15.9
PHASE C (KVA): N/A

CONNECTED KVA: 30.94
LOAD FACTOR: 0.77
DUTY/DEMAND KVA: 23.78

AVERAGE AMPS/LEGS BASED ON DUTY/DEMAND KVA: 99.1

#	DESCRIPTION	LOAD	BKPR	PHI	BKPR	LOAD	DESCRIPTION
1	GL: 1st Fr Toilet	1,500	A50/7	A	A50/7	1,500	GL: 1st Fr Toilet
2	GL: 1st Fr Toilet	1,500	A50/7	B	A50/7	1,500	GL: 1st Fr Toilet
3	GL: 2nd Fr Bath	1,500	A50/7	B	A50/7	1,500	GL: 2nd Fr Bath
4	GL: 2nd Fr Bath	1,500	A50/7	A	A50/7	1,500	GL: 2nd Fr Bath
5	GL: Spare	765	A50/7	B	A50/7	765	GL: Spare
6	GL: Spare	765	A50/7	A	A50/7	765	GL: Spare
7	GL: Bathrm 1	765	A50/7	B	A50/7	1,115	GL: Bathrm 1
8	GL: Bathrm 2	765	A50/7	B	A50/7	1,115	GL: Bathrm 2
9	GL: Bathrm 3	765	A50/7	B	A50/7	950	GL: Bathrm 3
10	GL: Spare	860	A50/7	A	A50/7	860	GL: Spare
11	GL: Spare	860	A50/7	B	A50/7	950	GL: Spare
12	GL: Living Rm Rec	300	A50/7	A	A50/7	495	GL: Living Rm Rec
13	GL: Living Rm Rec	300	A50/7	B	A50/7	495	GL: Living Rm Rec
14	GL: Other: Fire Alarm	2,500	A50/7	A	A50/7	850	Other: Fire Alarm
15	GL: Other: Fire Alarm	2,500	A50/7	B	A50/7	850	Other: Fire Alarm
16	GL: Other: Fire Alarm	2,500	A50/7	A	A50/7	1,130	Other: Fire Alarm
17	GL: Other: Fire Alarm	2,500	A50/7	B	A50/7	1,130	Other: Fire Alarm
18	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
19	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
20	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
21	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
22	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
23	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
24	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm

ENCLOSURE TYPE: NEMA 1
CLASS OF EQUIPMENT: LOADCENTER
BREAKER TYPE: PLUG ON
NO. CIRCUITS: 24

SCHEDULE FOR PANEL U5

VOLTS/PHASE/WIRE: 120/240/1PH-3W
MOUNTING: FLUSH
MAIN DEVICE: 125A MLO
S.C. RATING: 10,000 AIC
NOTES: Provide with (2) each Spare 3/4" c. into Attic & Crawlspace
A: Indicates Ac. Fault Circuit Interrupt type Breaker.

Duty/Demand Load is Calculated Per NEC: 1. Up, Cmp, Htg, Mr & Ac at 125% Rec @ 10 + 50% and Oth @ 100%

PHASE A (KVA): 18.6
PHASE B (KVA): 15.5
PHASE C (KVA): N/A

CONNECTED KVA: 33.62
LOAD FACTOR: 0.77
DUTY/DEMAND KVA: 26.01

AVERAGE AMPS/LEGS BASED ON DUTY/DEMAND KVA: 108.4

#	DESCRIPTION	LOAD	BKPR	PHI	BKPR	LOAD	DESCRIPTION
1	GL: 1st Fr Toilet	1,500	A50/7	A	A50/7	1,500	GL: 1st Fr Toilet
2	GL: 1st Fr Toilet	1,500	A50/7	A	A50/7	1,500	GL: 1st Fr Toilet
3	GL: 2nd Fr Bath	1,500	A50/7	B	A50/7	1,500	GL: 2nd Fr Bath
4	GL: 2nd Fr Bath	1,500	A50/7	B	A50/7	1,500	GL: 2nd Fr Bath
5	GL: Spare	765	A50/7	B	A50/7	1,115	GL: Spare
6	GL: Spare	765	A50/7	A	A50/7	1,115	GL: Spare
7	GL: Bathrm 1	765	A50/7	B	A50/7	1,115	GL: Bathrm 1
8	GL: Bathrm 2	765	A50/7	B	A50/7	1,115	GL: Bathrm 2
9	GL: Bathrm 3	765	A50/7	B	A50/7	1,115	GL: Bathrm 3
10	GL: Spare	860	A50/7	A	A50/7	950	GL: Spare
11	GL: Spare	860	A50/7	B	A50/7	950	GL: Spare
12	GL: Living Rm Rec	300	A50/7	A	A50/7	495	GL: Living Rm Rec
13	GL: Living Rm Rec	300	A50/7	B	A50/7	495	GL: Living Rm Rec
14	GL: Other: Fire Alarm	2,500	A50/7	A	A50/7	850	Other: Fire Alarm
15	GL: Other: Fire Alarm	2,500	A50/7	B	A50/7	850	Other: Fire Alarm
16	GL: Other: Fire Alarm	2,500	A50/7	A	A50/7	1,130	Other: Fire Alarm
17	GL: Other: Fire Alarm	2,500	A50/7	B	A50/7	1,130	Other: Fire Alarm
18	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
19	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
20	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
21	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
22	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
23	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm
24	GL: Other: Fire Alarm	2,500	A50/7	B	Da	1,130	Other: Fire Alarm

ENCLOSURE TYPE: NEMA 1
CLASS OF EQUIPMENT: LOADCENTER
BREAKER TYPE: PLUG ON
NO. CIRCUITS: 24

GENERAL NOTES:

- ONLY APPROVED PRODUCTS LISTED ON DRAWINGS OR IN AN ADDENDUM WILL BE ACCEPTED.
- REFER TO MECHANICAL DRAWINGS AND ADDENDUMS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR TO CONFIRM ALL MECHANICAL EQUIPMENT CONNECTIONS PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO ROUGH-IN.
- ALL CONDUITS FOR LOW VOLTAGE SYSTEMS TO HAVE INSULATED BUSHINGS AND PULL STRINGS. COORDINATE WITH SERVING UTILITY (TELEPHONE) FOR EXACT REQUIREMENTS OF CONDUIT, CABLES (IND).
- ALL KITCHEN RECEPTACLES TO BE TAMPER RESISTANT GFI RECEPTACLES.
- RE ARCHITECTURAL DRAWINGS FOR FIRE SEPARATION.

FLAG NOTES:

- PROVIDE (2) FLUORESCENT KEYS (EQUAL TO LEVITON 890) FOR EACH RECEPTACLE IN CRAWLSPACE. WIRE TO CIRCUIT INDICATED.
- PROVIDE (2) FLUORESCENT KEYS (EQUAL TO LEVITON 890) FOR EACH RECEPTACLE IN THE SPACE. WIRE TO CIRCUIT INDICATED.
- PROVIDE A 1/2" X 1/2" X 1/2" WOOD BACKBOARD FOR INCOMING PHONE/CATV. COORDINATE EXACT REQUIREMENTS WITH SERVICE PROVIDERS.
- PROVIDE 120V CONNECTION FOR IRRIGATION CONTROLS. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER. WIRE TO CIRCUIT HSE-4.
- INSTALL CONTROLS FOR HOODLIGHT IN APPROX. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL CASEWORK.
- INSTALL SWITCH FOR DISPOSER IN CASEWORK. COORDINATE WITH ARCHITECTURAL CASEWORK DETAILS.

GENERAL NOTES:

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