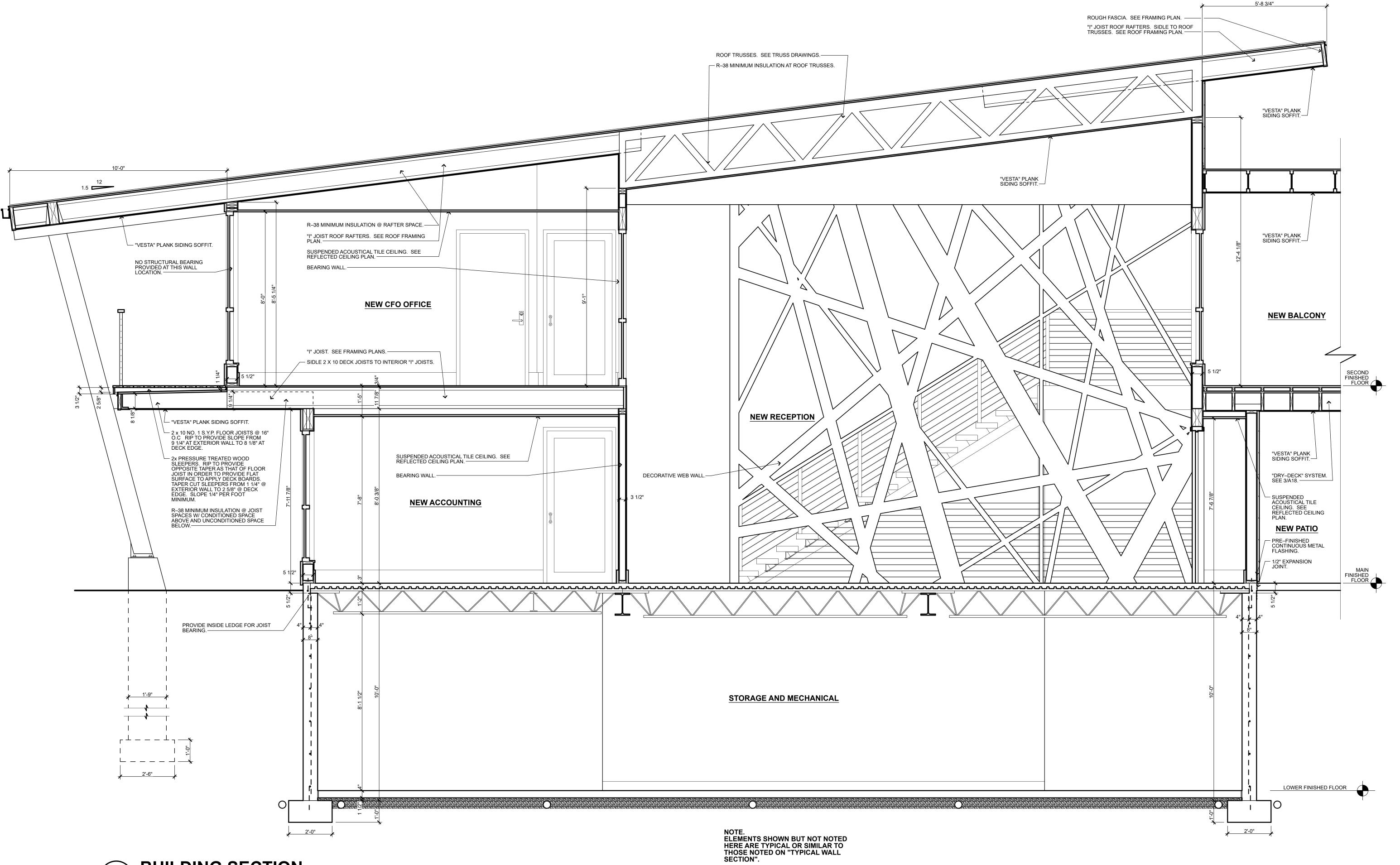


SECHRIST





1 BUILDING SECTION
1/2" = 1'-0"

HELMAN SECHRIST ARCHITECTURE

129 NORTH 2ND ST. ELKHART, IN 46516 (574) 294-6674 helmansechrist.com

):

27 MAY 2020

Revisions:

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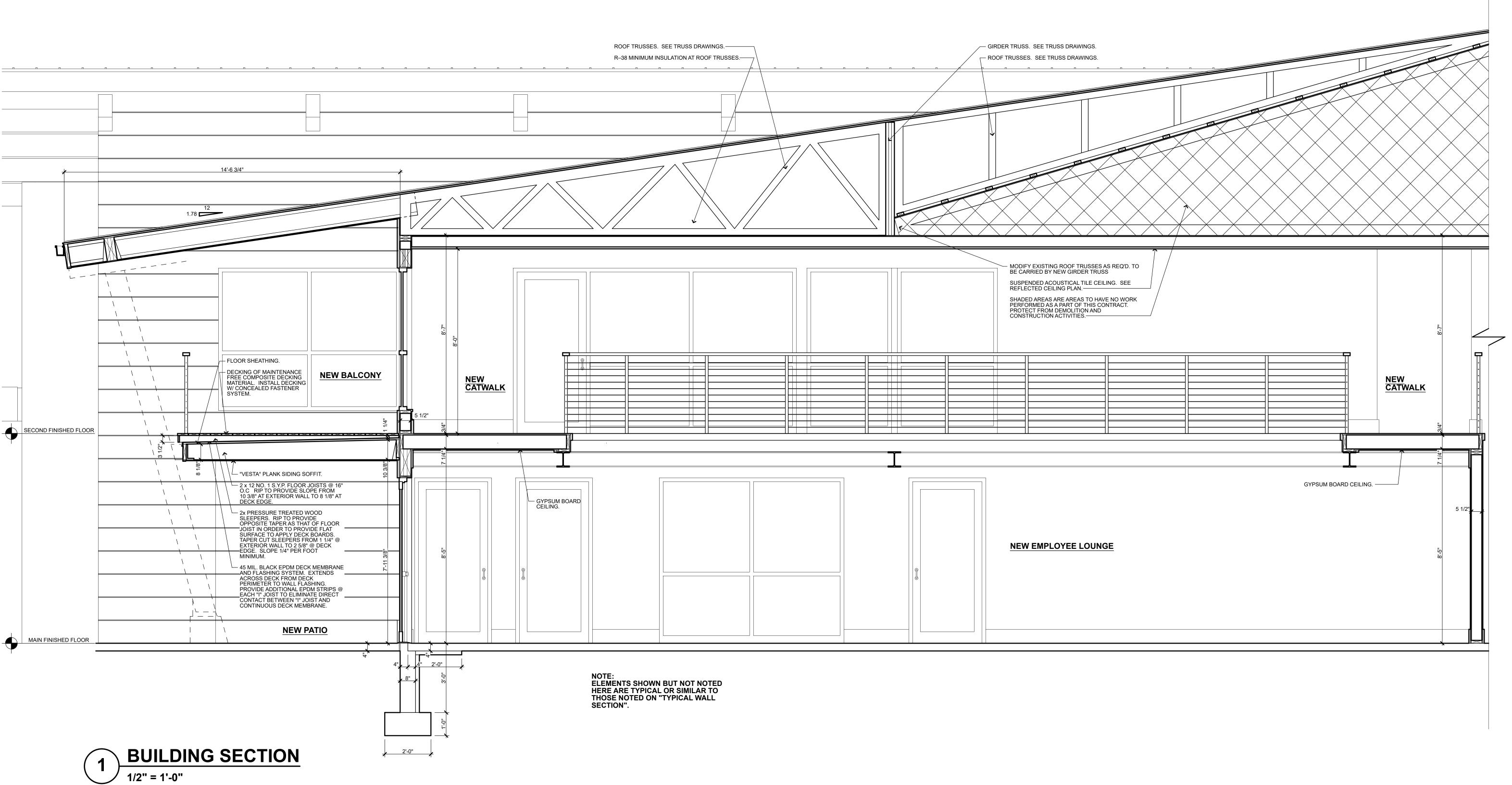
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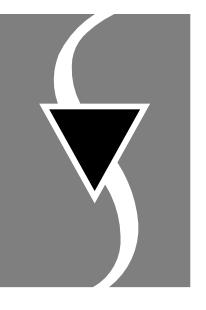
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Project No.:

1925







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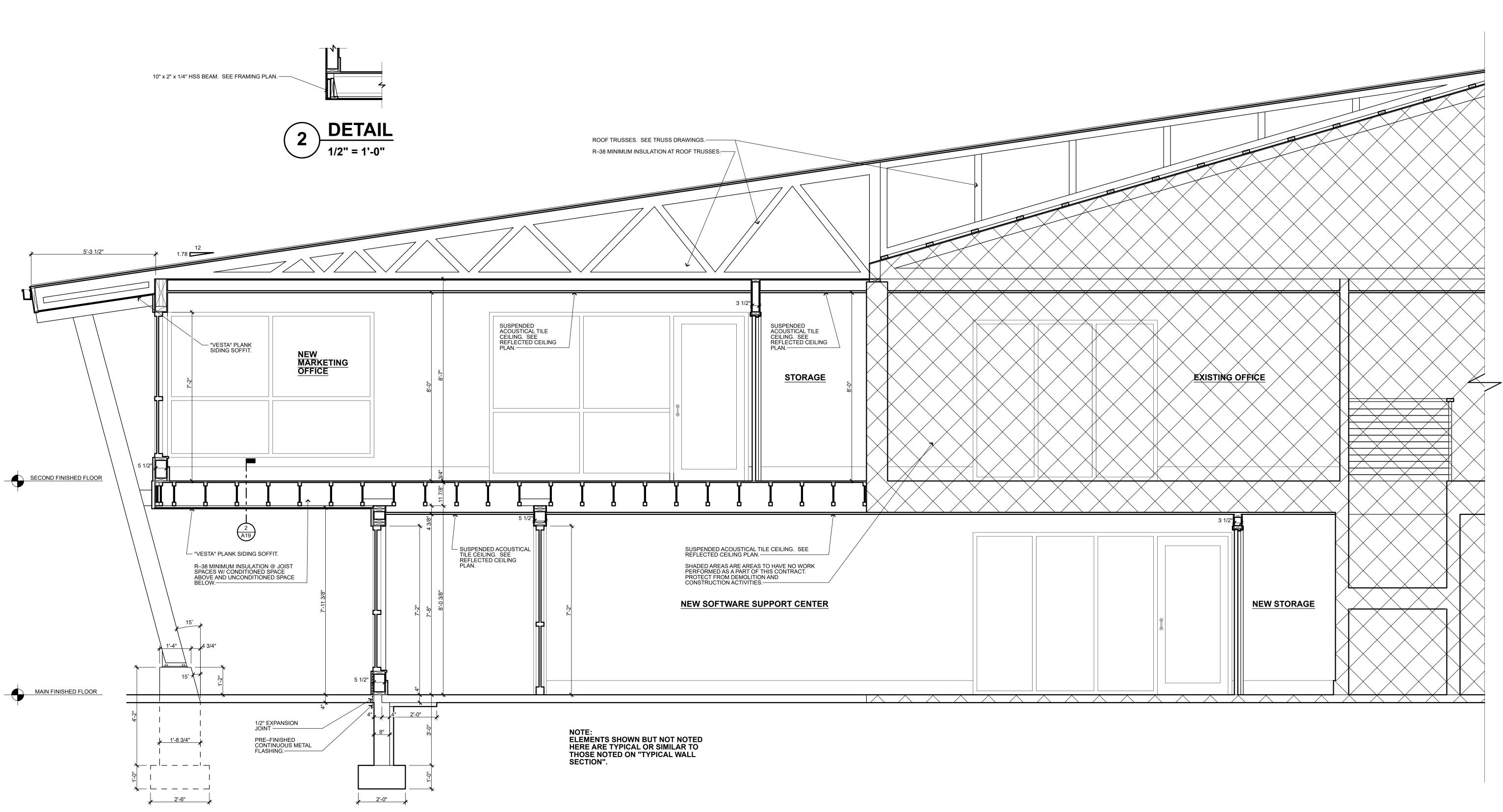
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BUILDING SECTION

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ADDITIONS AND RENOVATIONS

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A19

ADDITION & RENOVATION

ROCHESTER, INDIANA

MECHANICAL & PLUMBING SPECIFICATIONS

PART I - GENERAL

DESCRIPTION

THE GENERAL REQUIREMENTS, ARE HEREBY MADE A PART OF THIS SECTION AS IF FULLY REPEATED HEREIN.

THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: TRENCH EXCAVATION, PUMPING, BACKFILLING AND COMPACTION FOR UNDERGROUND PIPING AND PLUMBING

SOIL, WASTE AND VENT PIPING.

DOMESTIC HOT AND COLD WATER PIPING CONNECTIONS TO FIXTURES. JOINTS, FITTINGS, HANGERS, SLEEVES, ESCUTCHEONS, ETC. RELATED WORK: PIPING SYSTEMS REQUIRING FIXED LOCATIONS AND SLOPES SHALL TAKE PRIORITY OVER THOSE, WHICH DO NOT HAVE BOTH REQUIREMENTS. THE FOLLOWING WORK IS SPECIFIED IN OTHER SECTIONS OF THESE SPECIFICATIONS.

FIRE PROTECTION SPRINKLERS: FIRE PROTECTION SPRINKLERS AIR CONDITIONING AND HEATING: HEATING, VENTILATING & AIR CONDITIONING

TOILET ROOM ACCESSORIES: TOILET ROOM ACCESSORIES EXCAVATION & BACKFILL: EXCAVATION AND BACKFILL POWER WIRING: ELECTRICAL

1.02 QUALITY

MATERIALS AND EQUIPMENT: ALL MATERIALS SHALL BE NEW AND FIRST CLASS IN EVERY RESPECT. AS FAR AS IS PRACTICAL, SIMILAR PRODUCTS SHALL BE BY ONE MANUFACTURER.

INDUSTRY STANDARDS: WHERE COMPLIANCE WITH AN INDUSTRY, SOCIETY, OR ASSOCIATION STANDARD IS SPECIFIED OR INDICATED. CERTIFICATION OF SUCH COMPLIANCE SHALL BE SUBMITTED WITH SHOP DRAWINGS.

1.03 SUBMITTALS

MANUFACTURER'S SUBMITTALS: REFER TO SECTION ENTITLED "BASIC MECHANICAL MATERIALS AND METHODS" SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR THE ENGINEER'S REVIEW AND RECEIVE APPROVAL BEFORE PURCHASING OR INSTALLING EQUIPMENT. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

PIPING WHERE REVISED FROM DRAWINGS.

FLOOR DRAINS. PLUMBING FIXTURES.

FIXTURE SUPPLIES, TRAPS AND STOP VALVES AND APPURTENANCES.

PIPE HANGERS. INSULATION.

WHERE COMPLIANCE WITH AN INDUSTRY, SOCIETY OR ASSOCIATION STANDARD IS SPECIFIED OR INDICATED, CERTIFICATION OF SUCH COMPLIANCE SHALL BE MADE WITH SHOP DRAWINGS.

1.04 STORAGE OF MATERIALS:

PIPE AND FITTINGS MAY BE STORED AT THE SITE PROVIDED THEY ARE STORED IN SUCH A MANNER AS TO PROTECT THEM FROM DAMAGE AND PROHIBIT ENTRANCE OF DIRT AND CONSTRUCTION DEBRIS. USE OF THE SITE SHALL COMPLY WITH GENERAL CONDITIONS AND SUCH OTHER PROVISIONS OF CONTRACT DOCUMENTS AS MAY LIMIT OR RESTRICT SAID

DRAWING INDEX

MP-100 MECHANICAL & PLUMBING SPECIFICATIONS

PHD-102 MECH. & PLUMBING FIRST FLOOR DEMOLITION

M-101 BASEMENT MECHANICAL

M-102 FIRST FLOOR MECHANICAL

M-103 SECOND FLOOR MECHANICAL

M-104 MECHANICAL EQUIPMENT SCHEDULES

M-105 MECHANICAL PIPING & WIRING DIAGRAM

P-101 BASEMENT PLUMBING P-102 FIRST FLOOR PLUMBING

P-103 PLUMBING FIXTURE SCHEDULE & DETAILS

P-104 WATER & WASTE ISOMETRICS

PART II - PRODUCTS

FIXTURES AND TRIM

GENERAL: PROVIDE ALL FIXTURES AND TRIM AS SCHEDULED ON THE DRAWINGS. ALL EXPOSED METAL PARTS SHALL BE POLISHED CHROMIUM PLATED BRASS. COLOR SHALL BE WHITE. COMPARABLE ITEMS OF THE FOLLOWING MANUFACTURERS ARE CONSIDERED EQUAL.

FIXTURES: KOHLER, AMERICAN STANDARD, CRANE, ELJER. STAINLESS STEEL FIXTURES: AMTEKCO, ELKAY AND JUST. PLUMBING BRASS: HYDROTEK, SPEAKMAN, SLOAN, CHICAGO, JUST, BRADLEY, T&S BRASS AND BRONZE WORKS, ELKAY.

SEATS: CHURCH, BENEKE, BEMIS AND FIXTURE MANUFACTURERS. ELECTRIC WATER COOLERS AND DRINKING FOUNTAINS: SUNROCK, OASIS, ELKAY, HAWS, HALSEY TAYLOR.

STAINLESS STEEL FLOOR DRAINS: KUSEL. FLUSH VALVES: HYDROTEK AND SLOAN.

SHALL BE AS SCHEDULED ON THE DRAWINGS

2.02 PIPE

PIPING SHALL BE AS SPECIFIED IN PIPE SPECS BELOW.

2.07 DRAINAGE SPECIALTIES

GENERAL: AS SPECIFIED IN FIXTURE SPECIFICATIONS.

FLOOR DRAINS: AS SPECIFIED IN FIXTURE SPECIFICATIONS. FLOOR CLEANOUTS: AS SPECIFIED IN FIXTURE SPECIFICATIONS. WALL CLEANOUTS: AS SPECIFIED IN FIXTURE SPECIFICATIONS. 2.08 PIPE HANGERS: AS SPECIFIED IN FIXTURE SPECIFICATIONS.

2.09 PIPE SLEEVES: AS SPECIFIED IN FIXTURE SPECIFICATIONS. 2.10 ESCUTCHEONS: AS SPECIFIED IN FIXTURE SPECIFICATIONS.

PIPING: MATERIAL SHALL BE (HEAVY DENSITY FIBERGLASS INSULATION WITH A FACTORY APPLIED SELF-SEALING FIRE RETARDANT JACKET. WITH

3" WIDE BUTT STRIPS OF THE SAME MATERIAL FOR SEALING

CIRCUMFERENTIAL JOINTS.) (POLYOLEFIN INSULATION) (FLEXIBLE ELASTOMERIC INSULATION).

PART III - EXECUTION 3.01 INSPECTION

EXAMINE AREAS TO RECEIVE PIPING FOR:

DEFECTS THAT ADVERSELY AFFECT EXECUTION AND QUALITY OF WORK. DEVIATIONS BEYOND ALLOWABLE TOLERANCES FOR PIPING CLEARANCES. CHECK LOCATION OF ROUGH-IN WORK TO ASSURE MATCH WITH FIXTURES. VERIFY THAT ELECTRICAL FACILITIES ARE COMPATIBLE WITH EQUIPMENT.

3.02 INSTALLATION

PIPING LAYOUT:

FNGINFFR

COMPLETE INSTALLATION TO PRESENT A NEAT, ORDERLY APPEARANCE. RUN PIPING PARALLEL TO WALLS OF BUILDING UNLESS OTHERWISE

START WORK ONLY WHEN CONDITIONS ARE SATISFACTORY.

KEEP PIPING FREE FROM CONTACT WITH STRUCTURE OF INSTALLED ITEMS. ABOVE CEILING: HANG AND SUPPORT AS REQUIRED.

PIPING WITHIN WALLS: ANCHOR AS REQUIRED TO PREVENT RATTLE OR MOVEMENT OF ANY KIND. PENETRATIONS:

COORDINATE PENETRATIONS FOR VENTS WITH ROOF SYSTEM AND HVAC SYSTEMS AIR INTAKES.

DO NOT PENETRATE STRUCTURAL MEMBERS UNLESS APPROVED IN WRITING BY

A. JOINTS AND CONNECTOINS: AS INDICATED IN PIPING SPECIFICATIONS.

FLASHINGS: PROVIDE PROPER FLASHINGS FOR PIPES PASSING THROUGH ROOFING. FLASHINGS SHALL BE OF SHEET LEAD WITH FLANGES NOT LESS THAN EIGHTEEN INCHES (18") SQUARE AND WITH TUBULAR SECTIONS EXTENDING OVER TOP OF THE VENT AND TURNED INTO TOP APPROXIMATELY ONE INCH (1"). VENT EXTENSION SHALL STAND APPROXIMATELY ONE FOOT (1') ÁBOVE ROOF. PROVIDE FOR EXPANSION WHERE LEAD TURNS INTO PIPE.

FIXTURES, FLOOR DRAINS AND CLEANOUTS: PROVIDE ALL FIXTURES AND FLOOR DRAINS WITH TRAPS TO COMPLY WITH LOCAL REGULATIONS, AND AS HEREINAFTER SPECIFIED. PROVIDE EXPOSED TRAPS WITH BRASS CLEANOUT PLUGS. PROVIDE CLEANOUTS IN SOIL AND WASTE LINES AS SHOWN ON THE PLANS AND AS REQUIRED BY THE GOVERNING CODES. EXTEND CLEANOUTS FOR PIPING CONCEALED IN FLOOR OR CEILING CONSTRUCTION THROUGH THE FLOOR ABOVE AND PROVIDE WITH ADJUSTABLE FLOOR LEVEL CLEANOUT SET FLUSH WITH THE FINISHED FLOOR. USE SCREW TYPE CLEANOUTS FOR PIPING CONCEALED IN WALL CONSTRUCTION AND PROVIDE CHROMIUM PLATED BRONZE ACCESS COVER PLATES.

ESCUTCHEONS: PROVIDE ESCUTCHEONS ON ALL FINISHED SURFACES WHERE EXPOSED PIPING, BARE OR INSULATED, PASS THROUGH FLOORS, WALLS, OR CEILINGS, EXCEPT IN BOILER, UTILITY OR EQUIPMENT ROOMS. FASTEN ESCUTCHEONS SECURELY TO PIPE OR PIPE COVERING.

PIPE HANGERS: PVC PIPES SHALL BE SUPPORTED BY SPLIT RING TYPE, ADJUSTABLE SWIVEL RING HANGERS. HANGERS FOR COPPER PIPES SHALL BE COPPER PLATED OR PLASTIC COATED. PIPE HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS, PROPORTIONED TO THE SIZE OF PIPE

TESTS

GENERAL REQUIREMENTS: TESTING REQUIREMENTS ARE MINIMUM AND ARE NOT INTENDED TO BE LIMITING WHERE ADDITIONAL TESTING METHODS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. TEST PRIOR TO COVERING OR CONCEALING PIPING.

DRAINAGE AND VENT PIPING: ALL DRAINAGE, VENT AND INSIDE CONDUCTOR PIPING SHALL BE TESTED BEFORE FIXTURES ARE INSTALLED, BY CAPPING OR PLUGGING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER TO A MINIMUM OF 15' HEAD AND ALLOWING IT TO STAND THUS FILLED FOR 24 HOURS. PROVIDE NECESSARY TEST TEES AND PLUGS TO TEST THE SYSTEM IN SECTIONS. REMAKE ALL LEAKING JOINTS.

C. FIXTURES: TEST EACH FIXTURE FOR SOUNDNESS. STABILITY OF SUPPORT. AND SATISFACTORY OPERATION OF ALL ITS PARTS.

PLUMBING NOTES

- 1. PRIOR TO ORDERING OR FABRICATING ANY NEW EQUIPMENT THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ENGINEER.
- 2. ALL PIPE SIZES ARE NOT SHOWN ON PLANS. REFER TO RISER DIAGRAMS FOR COMPLETE PIPE SIZING AND CONFIGURATION.
- 3. VERIFY ALL FLOOR DRAIN FINISH ELEVATIONS AND LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL PLANS.
- 4. ALL PIPING AND EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL, ELECTRICAL, STRUCTURAL AND GENERAL CONTRACTORS BEFORE INSTALLATION.
- 5. OFFSET VENTS THROUGH ROOF AS REQUIRED TO MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL DISTANCE FROM OUTSIDE AIR INTAKES. REFER TO MECHANICAL DRAWINGS
- 7. PROVIDE ALL VENTS WITH EFFECTIVE RODENT SCREENS.
- 8. ALL FLOOR DRAIN TRAPS AND CLEANOUTS BELOW GRADE SHALL BE ENCASED IN CONCRETE. 9. FLOOR DRAINS AND CLEANOUTS SHALL NOT BE LOCATED NEAR DOORS OR IN LINE WITH
- PATHWAYS OF DOORS AND HEAVY TRAFFIC AREAS. 10. SHOP DRAWINGS: SUBMIT TO THE ENGINEER FOR APPROVAL, BEFORE COMMENCING WORK,
- SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT. THE FOLLOWING APPLIES TO THE SHOP DRAWINGS:
- A. DESIGN IS BASED ON MANUFACTURER NAMED DRAWINGS OR IN SPECIFICATIONS. SHOP DRAWINGS SHALL INDICATE EXCEPTIONS TO OR DEVIATIONS FROM THE DESIGN BASIS.
- B. EQUIPMENT IS GENERALLY SELECTED AT MIDRANGE CAPACITY TO PROVIDE FLEXIBILITY FOR CHANGES. SELECTIONS AT FULL MAXIMUM OR MINIMUM CAPACITY WILL NOT BE
- 11. SECURE EQUIPMENT TO SUPPORTS PER LOCAL CODE AUTHORITY. PROVIDE SEISMIC BRACING PER LOCAL CODE AUTHORITY. PLUMBING SUBCONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING METHODS INTENDED.
- 12. ANY LOAD SUSPENDED FROM THE ROOF OR FLOOR STRUCTURE ABOVE SHALL HANG DIRECTLY FROM THE BAR JOIST OR STRUCTURAL MEMBER; OTHERWISE, PROVIDE ADDITIONAL SUPPORT MATERIAL DESIGNED TO CARRY THE LOAD BETWEEN THE STRUCTURAL MEMBERS. <u>DO NOT</u> SUPPORT LOADS FROM BRIDGING.

PLUMBING LEGEND AND ABBREVIATIONS

GATE VALVE (GV) BALL VALVE (BV) FLOOR DRAIN FLOOR CLEAN-OUT WALL CLEAN-OUT ELBOW (90°, 45°) VENT THRU ROOF (VTR) ELBOW (UP, DOWN) ABOVE FINISHED FLOOR BELOW FINISHED FLOOR BELOW FINISHED GRADE VENT WATER CLOSET RAINWATFR OVERFLOW CLEANOUT (ON PIPE STACK) LAVATORY SINK DOWN JAN JANITOR SINK ELECTRIC WATER COOLER INVERT ELEVATION SHOWER ROOF DRAIN HELP FLOOR DRAIN VACUUM HUB DRAIN ELECTRIC WATER COOLER FLOOR SINK

MECHANICAL NOTES- GENERAL

TYPICAL

STAINLESS STEEL

VENT THRU ROOF

- 1. PRIOR TO ORDERING OR FABRICATING ANY INSTALLATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES, OPENINGS, SIZES AND RELATED INFORMATION TO CONFORM TO ACTUAL INSTALLATION. ALL EQUIPMENT SHALL BE VERIFIED WITH ARCHITECTURAL. STRUCTURAL. GENERAL, MECHANICAL AND ELECTRICAL CONTRACTORS PRIOR TO STARTING
- 2. DRAWINGS ARE FOR GENERAL ROUTING ONLY, FIELD ROUTING SHALL BE PERFORMED BY THE CONTRACTOR. IT IS THIS CONTRACTORS RESPONSIBILITY TO INCLUDE ALL FITTINGS, CHANGE IN DIRECTION, HANGERS OR SUPPORTS THAT ARE REQUIRED FOR A COMPLETE INSTALLATION.
- 3. SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER BEFORE STARTING WORK. ANY CHANGES TO SPECIFIED EQUIPMENT SHALL BE OUTLINED AND ANY COST FOR OTHER TRADES CHANGES SHALL BE BY THIS CONTRACTOR.
- 4. SUPPORT ALL EQUIPMENT AND PIPING PER LOCAL CODES AND INCLUDE ALL SEISMIC BRACING AS REQUIRED FOR THE SPECIFIC INSTALLATION AS REQUIRED. PROVIDE SHOP DRAWINGS WITH DETAILS FOR ANY SPECIFIC HANGER USED.
- 5. ALL PIPING HANGERS AND SUPPORTS SHALL BE HUNG ONLY FROM A STRUCTURAL MEMBER OR BAR JOIST. NO SUPPORTS FROM BRIDGING OF JOISTS IS ALLOWED AT ANY LOCATION. HANGERS SHALL BE DRILLED INTO MEMBERS OR BY USING AN ACCEPTABLE CLAMP THAT IS APPROVED BY THE STRUCTURAL ENGINEER AND STEEL FABRICATOR AND METAL BUILDING MANUFACTURER IF APPLICABLE.
- 6. VERIFY ALL FLOOR DRAINS, CLEANOUTS, OR OTHER FLOOR EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION AND ELEVATION PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY PLACEMENT OF DRAINS DURING ANY CONCRETE PORING AND INSTALLATION.
- 7. ALL DUCTWORK MEASUREMENTS SHOWN ARE CLEAR INSIDE MEASURED.
- 8. PROVIDE ALL STEEL FOR REINFORCING OPENINGS FOR FANS, DUCTS AND RELATED EQUIPMENT IF NOT SHOWN ON STRUCTURAL DRAWINGS.

MECHANICAL NOTES

THICKNESS INDICATED.

MAINTENANCE.

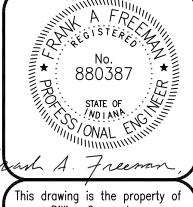
- 1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE INDIANA STATE BUILDING AND MECHANICAL CODE, 2014 INDIANA MECHANICAL CODE (2012 IMC, 1ST EDITION) AND INDIANA PLUMBING CODE, 2012 EDITION WITH ANY AMENDMENTS. IN ADDITION ANY LOCAL REQUIREMENTS AS DETERMINED BY THE LOCAL COUNTY BUILDING DEPARTMENT AND LOCAL OFFICIALS HAVING JURISDICTION.
- 2. FURNISH AND INSTALL ALL MECHANICAL WORK IN ACCORDANCE WITH THE INDIANA ENERGY CODE, 2010 (ASHRAE 90.1 2007)
- 3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MARKING AND LOCATING AND PROTECTING ANY UTILITIES IN THE AREA OF CONSTRUCTION.
- 4. CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO CONSTRUCTION TO VERIFY ALL WORK WILL COMPLY WITH EXISTING UTILITIES FROM A CAPACITY, LOCATION, ELEVATIONS STANDPOINT PRIOR TO COMMENCING WORK. CONTACT INDIANA UNDERGROUND PLANT PROTECTION 48 HOURS PRIOR TO STARTING WORK FOR UNDERGROUND UTILITY LOCATION.
- 5. FURNISH TO THE OWNER WITHIN 30 DAYS OF COMPLETION, AS BUILT DRAWINGS SHOWING ALL BUILDING PIPING, DUCTWORK, CONTROLS, EQUIPMENT LOCATIONS, GAS PIPING, REFRIGERANT PIPING AND ANY OTHER MECHANICAL COMPONENTS.
- 6. ALL HVAC EQUIPMENT TO BE RATED AT MINIMUM 80 EFFICIENCY FOR GAS FIRED HEATING AND HAVE MINIMUM OF 13 SEER RATING.
- 7. ALL OUTSIDE AND EXHAUST SYSTEMS TO HAVE MOTORIZED DAMPERS TO CLOSE WHEN NOT IN USE UNLESS EXEMPT BY CODE.

8. ALL MECHANICAL DUCTWORK IN NON-HEATED OR COOLED SPACES TO BE

9. ALL MECHANICAL PIPING TO BE INSULATED TO PROTECT FOR CONDENSATION OR BURN PROTECTION. MECHANICAL PIPING TO BE INSULATED IN ALL AREAS WHERE

PIPING CAN LOSE ENERGY PER REQUIREMENTS OF THE ENERGY CODE WITH

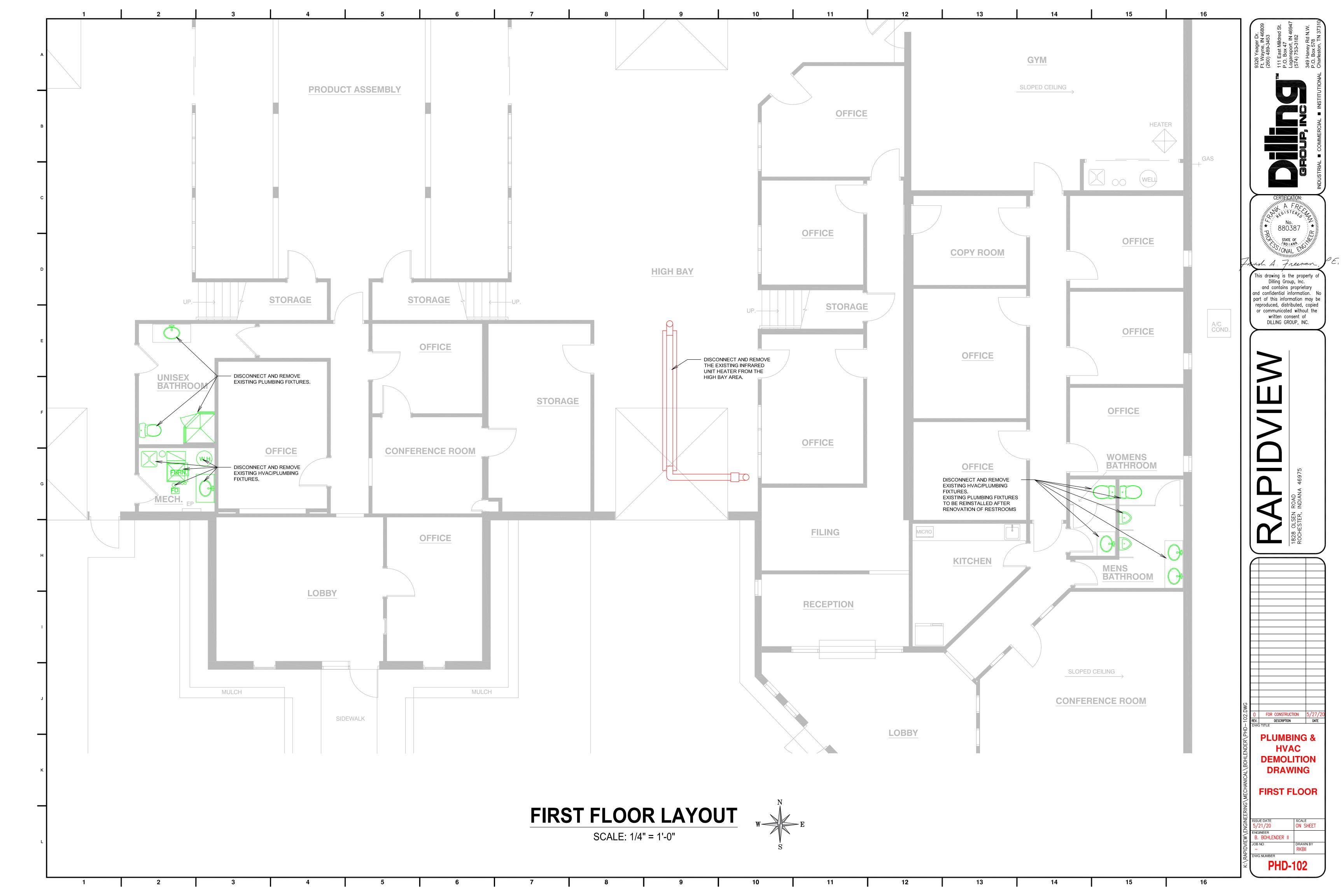
- 10. PROTECT ALL INSULATION OUTSIDE WITH PROPER JACKETING WITH UV PROTECTION. ALL INTERIOR JACKETING TO HAVE VAPOR BARRIERS.
- 11. PROVIDE ALL MECHANICAL EQUIPMENT MEANS OF UNLOADING FOR CAPACITY CONTROL OR HOT GAS BYPASS WHERE REQUIRED BY CODE OVER 80 MBH.
- 12. PROVIDE A THERMOSTAT OR OTHER CONTROL DEVICE FOR EACH MECHANICAL UNIT.
- 13. PROVIDE ALL THERMOSTATS WITH A 5 DEGREE DEAD BAND. PROVIDE OVERLAP CONTROL ON SYSTEMS WHERE REQUIRED. 14. SETBACK CONTROLS ALLOW FOR AUTOMATIC RESTART WHEN SHUT OFF FOR
- 15. PROVIDE COMPLETE CYCLE TESTING OF CONTROLS FOR PROPER OPERATION OF EQUIPMENT PRIOR TO OCCUPANCY.
- 16. VERIFY ALL ELECTRIC MOTORS MEET THE ENERGY CODE ON ALL MECHANICAL
- 17. FURNISH ALL O/M DATA FOR ALL MECHANICAL EQUIPMENT TO THE OWNER WITH ALL DATA SHEETS, O/M DATA, START UP RECORDS, AND RELATED INFORMATION WITHIN 30 DAYS OF COMPLETION WITH CONTACT INFORMATION FOR ALL MANUFACTURERS' REPRESENTATIVES. PROVIDE COMPLETED AS-BUILT DRAWINGS TO THE OWNER WITHIN 30 DAYS OF COMPLETION.
- 18. PROVIDE ALL BACKFLOW PROTECTION DEVICES REQUIRED BY CODE TO BE MOUNTED BETWEEN 12-60" ABOVE FINISH FLOOR IN ACCESSIBLE LOCATION FOR MAINTENANCE. PROVIDE AIR GAP FITTING AND DRAIN FROM EACH UNIT.
- 19. FURNISH A COMPLETE TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT IN THE BUILDING WITH READINGS AND INFORMATION INCLUDING: NAMEPLATE DATA, FIELD MEASUREMENTS, ELECTRICAL DATA, AIRFLOW, AIR PRESSURE, WATER FLOW RATES AND ANY OTHER INFORMATION FOR A COMPLETE LISTING FOR THE BUILDING. REPORT SHALL BE MEASURED, COMPLIED AND REPORTED BY A FIRM THAT IS ASSOCIATED WITH THE AABC OR NEBB. ALL EQUIPMENT AND TECHNICIANS SHALL BE CERTIFIED AND INCLUDE CURRENT TEST AND CERTIFICATION IN THE
- 20. ALL FABRICATED OR FIELD RUN DUCTWORK SHALL BE SEALED WITH MATERIAL THAT IS ACCEPTABLE FOR THE APPLICATION. ALL JOINTS SHALL BE TIGHT WITH FLEXIBLE MATERIAL AND ALL PRODUCTS SHALL MEET THE INDIANA ENERGY CODE AS LISTED. ALL DUCTWORK OVER 3" W.C. TO BE TESTED AS REQUIRED.
- 21. FURNISH AND INSTALL CONDENSATE DRAINS FROM ALL EQUIPMENT THAT PRODUCES CONDENSATE. FURNISH ALL CONDENSATE WITH INSULATION RATED FOR THE AREA THE DRAIN IS LOCATED. PROVIDE SECONDARY DRAINS AND ALARMS AT EACH LOCATION WHERE EQUIPMENT IS CONCEALED.
- 22. PROVIDE INSULATION PER THE INDIANA ENERGY CODE ON ALL PIPING THAT CAN PRODUCE CONDENSATION, OR ENERGY REDUCTION FOR LINES BELOW 40F AND

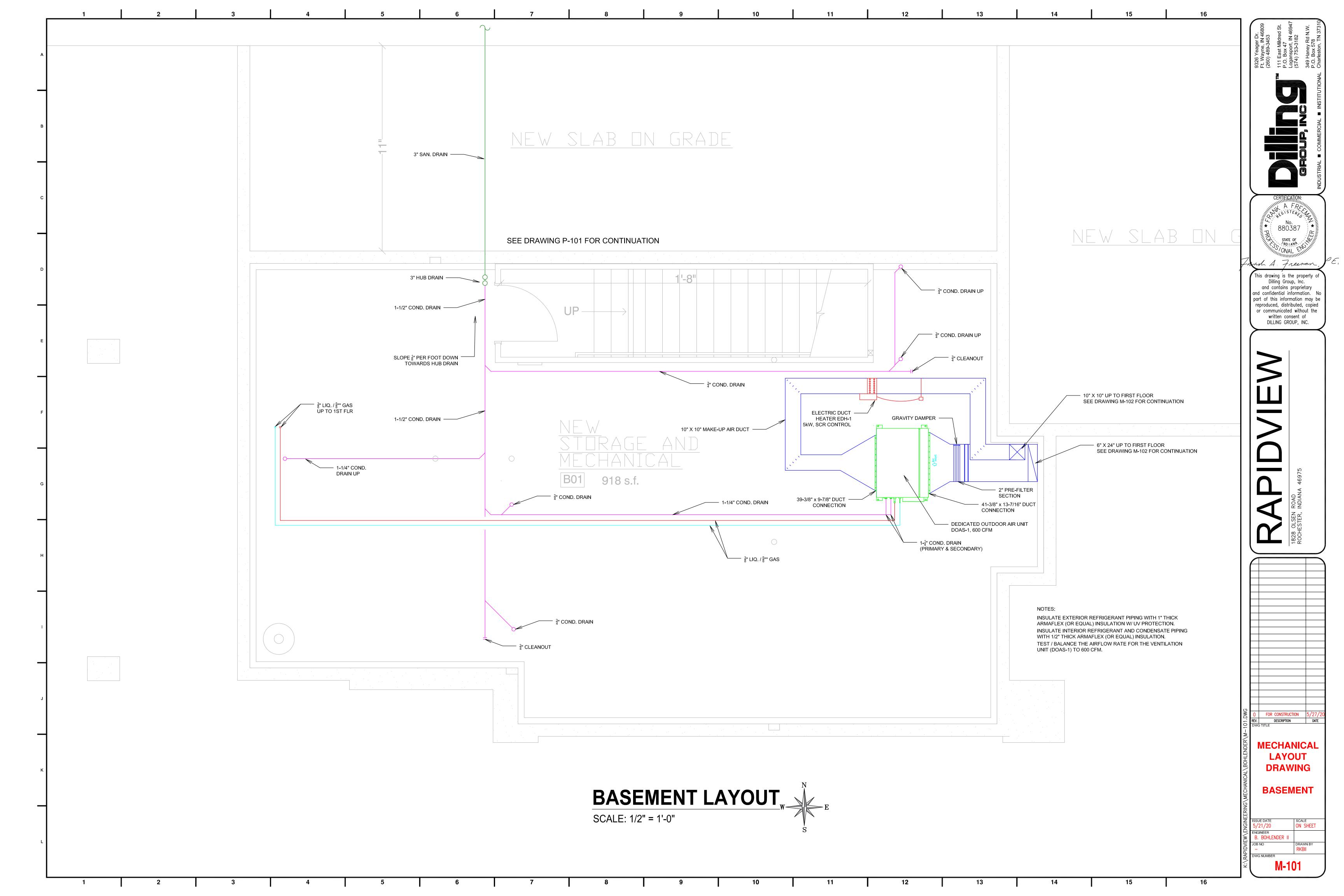


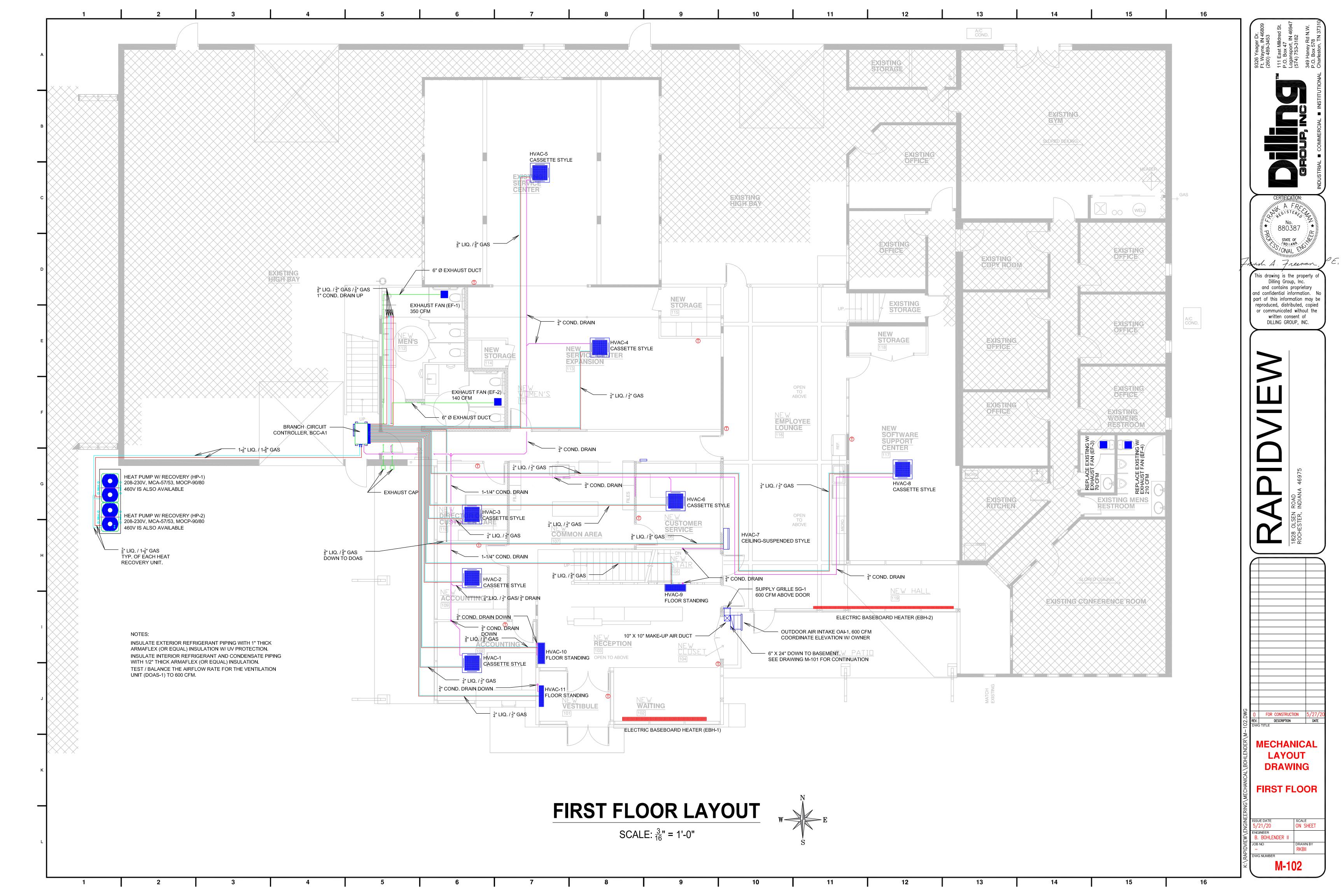
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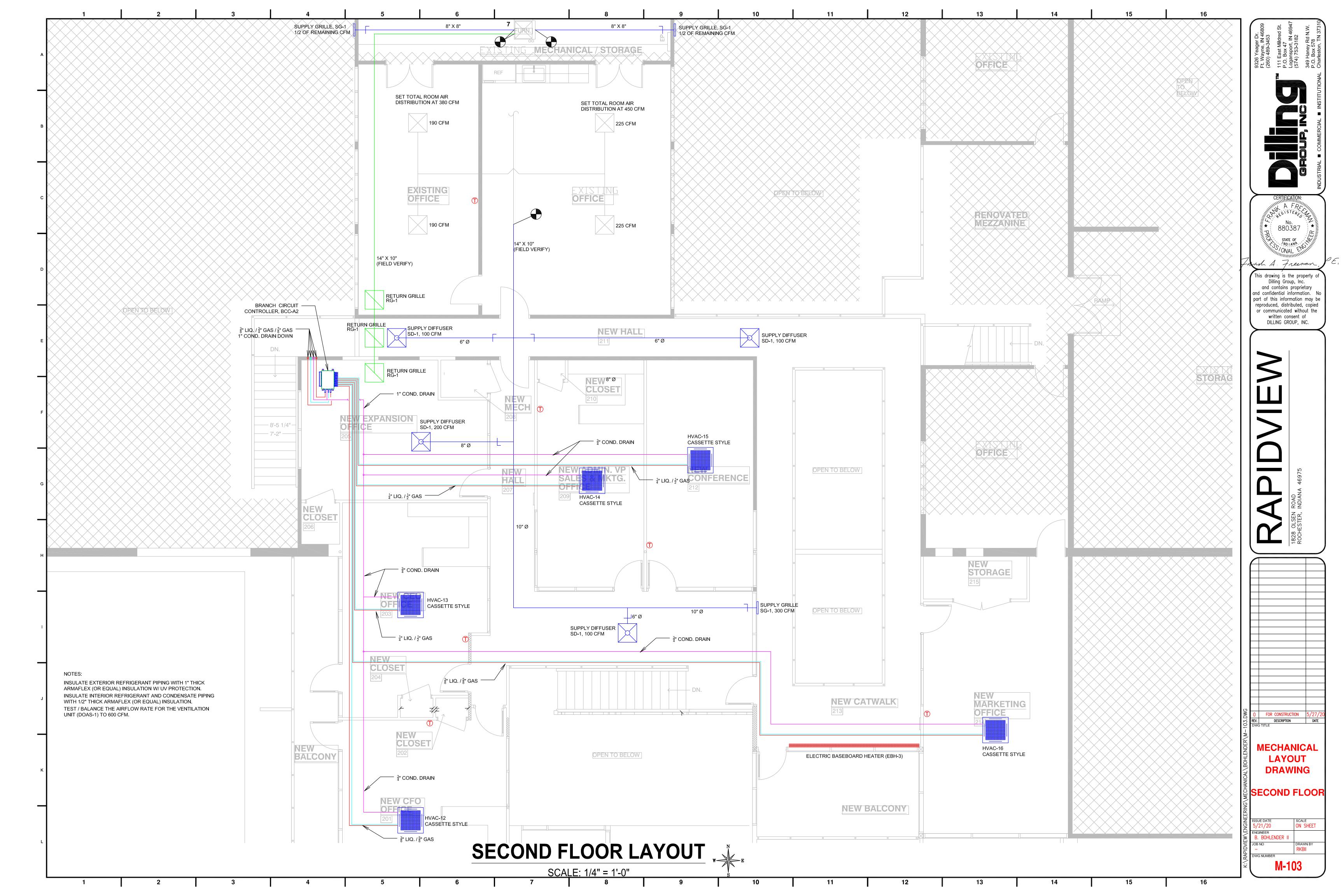


FOR CONSTRUCTION DESCRIPTION IECHANICAL **PLUMBING PECIFICATIONS** B. BOHLENDER II









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rta		Room Name	New Vestibule	New Reception	New Reception	Accounting	Accounting 2	Director	Customer care	Hallway	Service Exp	Service Center	Software support		Marketing Office	VP Marketing	Conference	CFO	CEO
	<u>ra</u>	M-NET Address	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	18
al Dat	a Dai	Model	TPFFYP008CS140A	TPCFYP036KM140B	TPCFYP036KM140B	TPLFYP015FM140A	TPLFYP008FM140A	TPLFYP008FM140A	TPLFYP005FM140A	TPCFYP036KM140B	TPLFYP018FM140A	TPLFYP024EM140A	TPLFYP018FM140A	TPEFYP048OA140A	TPLFYP024EM140A	TPLFYP008FM140A	TPLFYP018FM140A	TPLFYP024EM140A	TPLFYP018EM141A
	aimo	Туре	Floor standing type (exposed)	Ceiling type (suspended)	Ceiling type (suspended)	Ceiling cassette (4-way airflow) type	Ceiling type (suspended) C	Ceiling cassette (4-way airflow) type	Ceiling cassette (4-way airflow) type	Ceiling cassette (4-way airflow) typ	pe Fresh air intake type	Ceiling cassette (4-way airflow) type	Ceiling cassette (4-way airflow) typ	ce Ceiling cassette (4-way airflow) type	Ceiling cassette (4-way airflow) type	Ceiling cassette (4-way airflow) type			
2	2	Nominal Cooling Capacity (BTU/h)	8000	36000	36000	15000	8000	8000	5000	36000	18000	24000	18000	40947.6	24000	8000	18000	24000	18000
		Nominal Heating Capacity (BTU/h)	9000	40000	40000	17000	9000	9000	5600	40000	20000	27000	20000	34500	27000	9000	20000	27000	20000
ရ	<u>د</u> Coo	oling Design Entering Temp DB/WB (°F) / [Water in temp]	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	92.0/73.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0
B gitio	Hea	ating Design Entering Temp DB/WB (°F) / [Water in temp]	70	70	70	70	70	70	70	70	70	70	70	-4.0/-4.6	70	70	70	70	70
Ş	စ် 	Cooling Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
) Jesigi	gesigi 	Heating Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
	_	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2
at	<u>ta</u>	Cooling Total Capacity (BTU/h)	7706.3	34678.4	34678.4	14449.3	7706.3	7706.3	4816.4	34678.4	17339.2	23118.9	17339.2	39396.5	23118.9	7706.3	17339.2	23118.9	17339.2
e	ဗ ဗ	Cooling Sensible Capacity (BTU/h)	5668.2	24640.7	24640.7	9654	6103.3	6103.3	4315.1	24640.7	11621	16501	11621	34500	16501	6103.3	11621	16501	13185.5
rman	au	Heating Capacity (BTU/h)	5409.2	24040.8	24040.8	10217.3	5409.2	5409.2	3365.7	24040.8	12020.4	16227.5	12020.4	20747	16227.5	5409.2	12020.4	16227.5	12020.4
C Perfe	Perfo	Estimated Cooling Coil LAT (°F) / [LWT]	55.9	58	58	55.8	61	61	64.9	58	55.3	60.1	55.3	54.5	60.1	61	55.3	60.1	59.7
		Estimated Heating Coil LAT (°F) / [LWT]	92.6	91.1	91.1	95.2	86.5	86.5	81.6	91.1	95.1	89.2	95.1	82.4	89.2	86.5	95.1	89.2	88.2
No IT		Fan Speed Setting	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	VERY LOW(Heat), HIGH(Cool)	HIGH	HIGH	HIGH	HIGH	HIGH
/ater)ata	Peak Fan Airflow (cfm) / [Design gpm]	230	1095	1095	390	315	315	280	1095	460	812	460	420(Heat)/600(Cool)	812	315	460	812	636
─	<u> </u>	Max Fan ESP Setting 208V/230V (IN WG)												1					
		Sound Pressure Per Fan Speed 208V/230V (dBA)	36-41/36-41	36-39-42-44	36-39-42-44	28-33-39	26-30-33	26-30-33	26-28-30	36-39-42-44	33-39-43	28-30-32-34	33-39-43	38-40-41	28-30-32-34	26-30-33	33-39-43	28-30-32-34	28-30-31-32
Jata	Data	Voltage / Phase		208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase
_ _		Power Cooling 208V/230V (kW)	0.061	0.11	0.11	0.03	0.02	0.02	0.02	0.11	0.04	0.04	0.04	0.18	0.04	0.02	0.04	0.04	0.03
Electr		Power Heating 208V/230V (kW)		0.11	0.11	0.03	0.02	0.02	0.02	0.11	0.04	0.03	0.04	0.2	0.03	0.02	0.04	0.03	0.02
		Electrical MCA/MFS	0.32/0.34/15	1.22/1.22/15	1.22/1.22/15	0.35/0.35/15	0.28/0.28/15	0.28/0.28/15	0.24/0.24/15	1.22/1.22/15	0.5/0.5/15	0.54/0.54/15	0.5/0.5/15	3.30/3.00/15	0.54/0.54/15	0.28/0.28/15	0.5/0.5/15	0.54/0.54/15	0.43/0.43/15
<u> </u>	σ	Condensate Removal Rate (gal/hr)	0.27	1.32	1.32	0.58	0.25	0.25	0.09	1.32	0.71	0.85	0.71	2.77	0.85	0.25	0.71	0.85	0.54
Notes	Option	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6

	MIT	SUBISHI ELECTRIC TRANE HVAC US: C OUTDOOR UNIT SCHEDULE	ITY MULTI VRF
ĺ		System Tag	System 1
ľ		Tag Reference	HP-1 & HP-2
ĺ		M-NET Address	51, 52
4		Model Number	TURYE3363BN40AN
	ta	Modules	P168, P168
	Nominal Data	Nominal Cooling Capacity (BTU/h)	336000
	omin	Nominal Heating Capacity (BTU/h)	378000
	Z	Cooling Efficiency IEER/EER [SEER]	23.7 / 10.4
		Heating COP @ 47°F [HSPF]	3.25
		Nom System Connected Capacity (% of NOM)	0.967
1	ions	Design Cooling Outdoor Temp DB (°F)	92
l	Design Conditions	Design Heating Outdoor Temp WB (°F)	-4.6
l	ign C	Max Pipe Length from BC or 1st Joint (feet)	140.7
l	Des	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	1 1/8 / 1 5/8
I	ance	Corrected Cooling Total Capacity (BTU/h)	306227.4
l	Performance Data	Corrected Heating Capacity (BTU/h)	207183.3
	Perl	Sound Pressure (dBA)	65.5/69.5
1	Compres sor Data	Compressor Type	SCROLL
l	Com sor	Compressor Quantity	2
		Preliminary Added Field Charge (See Note 5)	76.6
ľ	ıta	Voltage / Phase	208/230V / 3-phase 3-wir
	Electrical Data	MCA 208/230 or [460V]	57/53, 57/53
	ectric	Recommended Fuse Size (RFS)	70/70, 70/70
	ă	MOCP	90/80, 90/80

	VENTILATIO	N UNITS
Ve	ntilation Unit Tag	PEFY-P48NMHU-E-OA
N	/I-NET Address	12
	Serving IUs	No
	Zone Supply	Yes
Fa	n Speed Setting	VERY LOW(Heat), HIGH(C
Sup	oply Airflow (CFM)	420(Heat)/600(Cool)
Zo	ne Airflow (CFM)	420
Indoo	r Unit Airflow (CFM)	0
Leaving	Dry Bulb Cooling (FDB)	54.5
Air Condition	Wet Bulb Cooling (FWB)	53.2
s	Dry Bulb Heating (FDB)	82.4
Sei	rved By Unit Tag	
N	/I-NET Address	
	Model	
	Туре	
	Airflow (CFM)	
	Dry Bulb Cooling (FDB)	
Mixed Air Condition	Wet Bulb Cooling (FWB)	
S	Dry Bulb Heating (FDB)	

\	/RF HEAT RECOVERY BRANCH	CIRCUIT CONT	ROLLER		
	System Tag	System 1	System 1		
	Tag Reference	BCC-A1	BCC-A2		
	M-NET Address	53	63		
Data	Model Number	TCMBM1016JA11N4	TCMBS0108KB11N		
Nominal Data	Type (double / Main / Sub)	Main	Sub		
Non	Number of Ports	16	8		
	Connected Capacity to BC	317947.6	89000		
ata	Voltage / Phase	208/230V / 1-phase	208/230V / 1-phase		
Electrical Data	Power Cooling 208V/230V (kW)	0.258/0.333	0.122/0.157		
ectric	Power Heating 208V/230V (kW)	0.137/0.176	0.061/0.078		
	MCA 208/230				
Notes / Options	Applicable System Notes - See Notes Below	1, 2	1, 2		

	ELECTRIC DUCT HEATER SCHEDULE													
DESCRIPTION	TAG	AIR FLOW RATE (CFM)	DUCTWORK SIZE	LOCATION / SERVING	MFR	MODEL	KW	CONTROL	TYPE	CONFIGURATION	POWER	AMPS (NEC FLA)	WEIGHT	OPTIONS
ELECTRIC DUCT HEATER	EDH-1	600	10" X 10"	BASEMENT / VENTILATION UNIT	INDEECO OR EQUAL	QUA	5	SCR	SLIP-IN	HORIZONTAL AIRFLOW	460/3/60		-	1-7
			•							•		•		

I OPTIONS: L. DISCONNECT SWITCH

2. THERMAL CUTOUTS 3. AIRFLOW SWITCH

4. DUCT-MOUNTED THERMOSTAT

5. CONTROL TRANSFORMER, IF NEEDED. . PROPORTIONAL ELECTRONIC (SCR) CONTROL W/ SET POINT ADJUSTMENT

7. CONTROL PANEL COMPLETE W/ - "HEATER ON" INDICATOR LIGHT

- "LOW AIRFLOW" INDICATOR LIGHT

- "STAGE ON" INDICATOR LIGHT

	ELECTRIC BASEBOARD HEATER SCHEDULE												
DESCRIPTION	TAG	QTY	LOCATION / SERVING	MFR	MODEL	LENGTH	WATTS PER FOOT	CONTROL	COLOR	POWER	AMPS (NEC FLA)	WEIGHT	OPTIONS
ELECTRIC BASEBOARD HEATER	EBH-1	1	WAITING AREA	MARKEL OR EQUAL	RDBT-PD-10	10'-0"	300	THERMOSTAT	BRONZE	460/3/60		-	1 & 2
ELECTRIC BASEBOARD HEATER	EBH-2	2	LOUNGE AREA	MARKEL OR EQUAL	RDBT-PD-10	10'-0"	250	THERMOSTAT	BRONZE	460/3/60		-	1 & 2
ELECTRIC BASEBOARD HEATER	EBH-3	1	SECOND FLOOR	MARKEL OR EQUAL	RDBT-PD-10	10'-0"	300	THERMOSTAT	BRONZE	460/3/60		-	1 & 2

K 1. DISCONNECT SWITCH 2. END CAPS

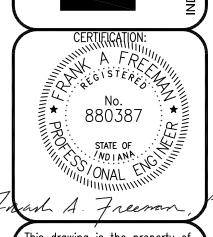
				EX	HAUST FAN SCHEDULE							
DESCRIPTION	TAG	AIR FLOW RATE (CFM)	EXTERNAL STATIC PRESSURE (IN.W.C.)	AREA SERVED	MFR	MODEL	HP	ENCLOSURE	POWER	AMPS (NEC FLA)	WEIGHT	OPTIONS
CEILING EXHAUST FAN	EF-1	350	0.15	NEW MENS RESTROOM 112	GREENHECK	SP-A390	FRACTIONAL	ODP	115/60/1	1.34	-	1-5
EXHAUST FAN	EF-2	140	0.15	NEW WOMENS RESTROOM 111	GREENHECK	SP-B150	FRACTIONAL	ODP	115/60/1	1.7	-	1-5
EXHAUST FAN	EF-3	70	0.13	EXISTING WOMENS RESTROOM	GREENHECK	SP-B70	FRACTIONAL	ODP	115/60/1	0.53	-	1-5
EXHAUST FAN	EF-3	210	0.125	EXISTING MENS RESTROOM	GREENHECK	SP-A190	FRACTIONAL	ODP	115/60/1	0.45	-	1-5

1. THERMAL OVERLOAD

2. MOTOR RATED FOR CONTINUOUS USE 3. ROUND HOODED WALL CAP

4. DESIGNER GRILLE

5. ROUND DUCT CONNECTION



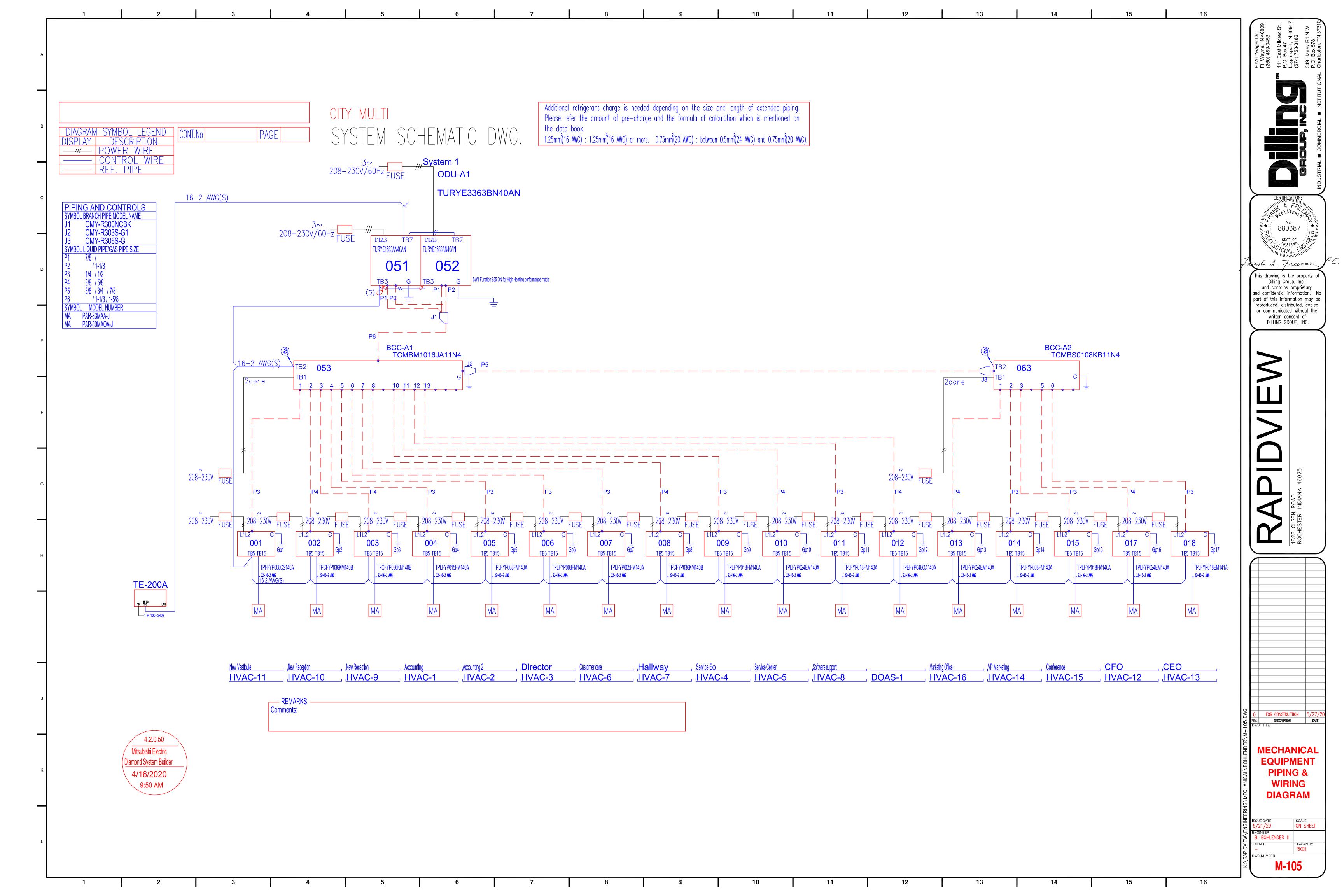
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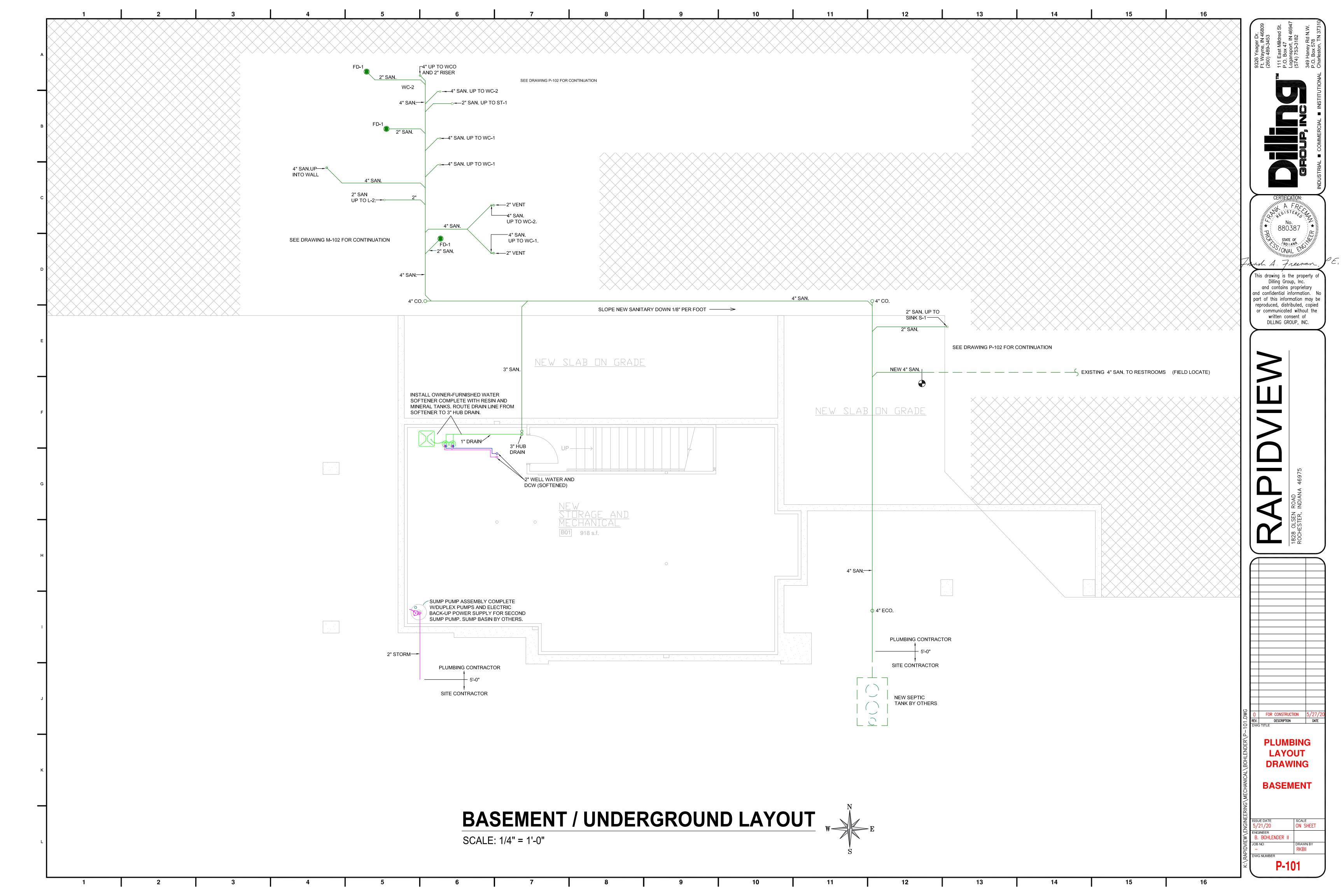
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4.	REV.	DESCRIPTION	DATE
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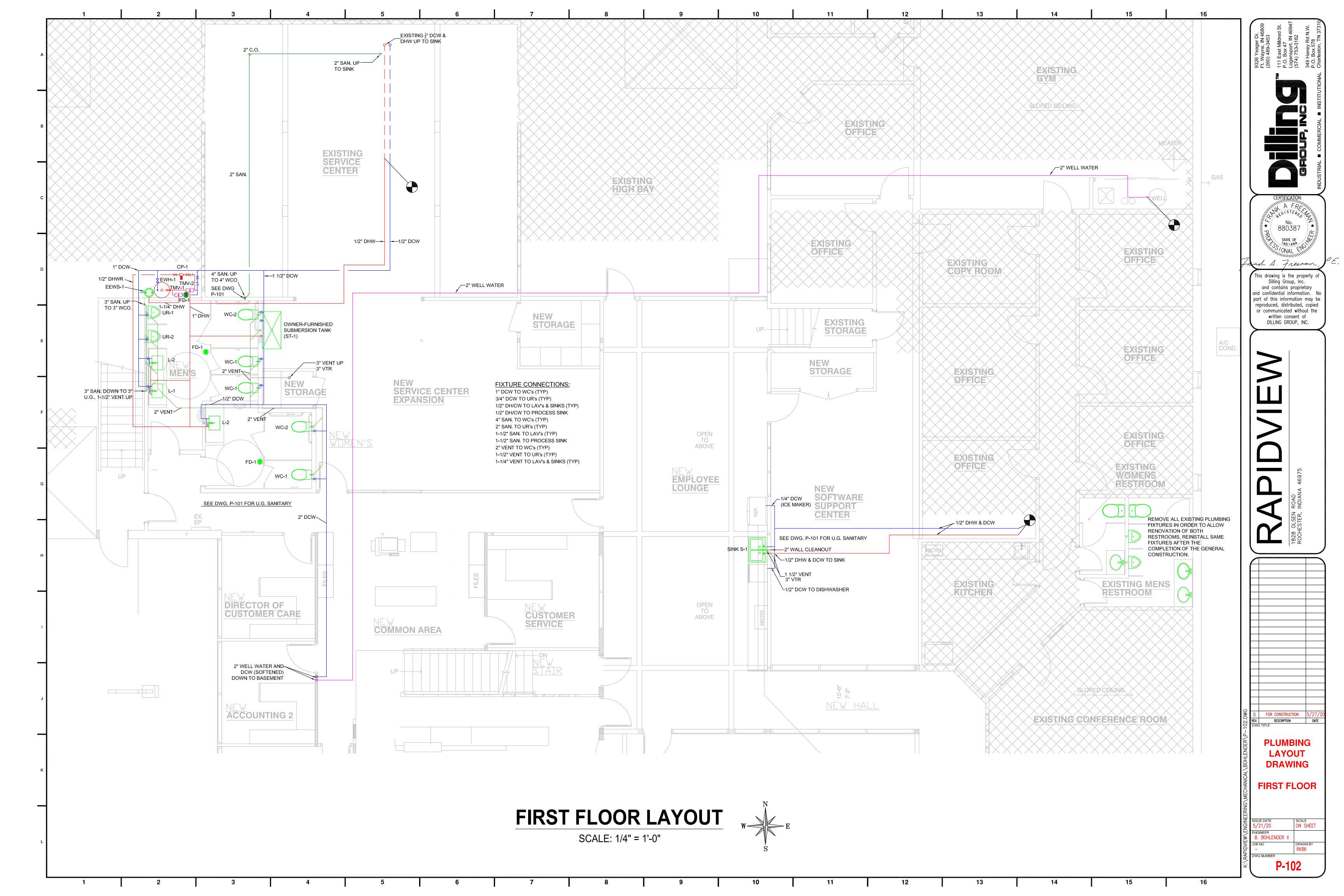
EQUIPMENT SCHEDULES

ENGINEER

B. BOHLENDER II







			PLUMBING FIX	(TURE SCH	EDULE									
				DI	U		WSFU	_					MIN.	
FIXTURE TYPE	SYMBOL	QTY	SPECIFICATIONS	PER FIXTURE	TOTAL DFU'S	COLD	нот	TOTAL	DCW	DHW	SAN.	VENT	TRAP SIZE	REMARKS
			AMERICAN STANARD, MODEL 3641.001, RIGHT WIDTH FLOWISE, ELONGATED FLUSHOMETER											
			WATER CLOSET, WHITE, COMPLETE WITH SENSOR-OPERATED MODEL 6065.161.002											
			FLUSHOMETER, 1.6 GPF, AND BEMIS MODEL 1955SSCT WHITE, OPEN FRONT, ELONGATED TOILET											
VATER CLOSET	WC-1	3	SEAT. (OR EQUAL.)	4	12	6	-	18	1"	-	4"	2"	-	
			AMERICAN STANARD, MODEL 3641.001, RIGHT WIDTH FLOWISE, ELONGATED FLUSHOMETER											
			WATER CLOSET, WHITE, ADA COMPLIANT, COMPLETE WITH SENSOR-OPERATED MODEL											
			6065.161.002 FLUSHOMETER, 1.6 GPF, AND BEMIS MODEL 1955SSCT WHITE, OPEN FRONT,											
/ATER CLOSET ADA	WC-2	2	ELONGATED TOILET SEAT. (OR EQUAL.)	4	8	6	_	12	1"	-	4"	2"	-	
			AMERICAN STANDARD, MODEL 6501.610, WASHBROOK URINAL, WHITE, COMPLETE WITH SENSOR-											
RINAL	UR-1	1	OPERATED MODEL 6063.101.002 FLUSHOMETER, 1.0 GPF, AND WALL CARRIER. (OR EQUAL.)	4	4	5	_	5	3/4"	_	2"	1-1/4"	2"	
			AMERICAN STANDARD, MODEL 6501.610, WASHBROOK URINAL, WHITE, ADA COMPLIANT,											
			COMPLETE WITH SENSOR-OPERATED MODEL 6063.101.002 FLUSHOMETER, 1.0 GPF, AND WALL											
RINAL ADA	UR-2	1	CARRIER. (OR EQUAL.)	4	4	5	_	5	3/4"	_	2"	1-1/4"	2"	
			CHICAGO FAUCETS MODEL 786-E2805-5XKABCP FAUCET WITH WRISTBLADE HANDLES, 1-1/4" GRID											
VATORY	LAV-1	1	DRAIN AND P-TRAP, 1/2" COMP. STOP SET, 102EZ STOP AND TRAP INSULATION KIT.	1	1	0.5	0.5	0.7	3/8"	3/8"	1-1/4"	1-1/4"	1-1/4"	
			CHICAGO FAUCETS MODEL 786-E2805-5XKABCP FAUCET WITH WRISTBLADE HANDLES, 1-1/4" GRID											
AVATORY ADA	LAV-2	2	DRAIN AND P-TRAP, 1/2" COMP. STOP SET, 102EZ STOP AND TRAP INSULATION KIT.	1	2	0.5	0.5	1.4	3/8"	3/8"	1-1/4"	1-1/4"	1-1/4"	
			ELKAY, MODEL CR2522-3, STAINLESS STEEL, SINGLE COMPARTMENT SINK, COMPLETE WITH 711SS									,		
			STRAINER, 1-1/2" P-TRAP, 1/2" COMP. STOP SET, AMERICAN STANDARD COLONY SOFT MODEL											
NK	S-1	1	4275.551 FAUCET WITH HANDSPRAY.	2	2	1	1	1.4	1/2"	1/2"	1-1/2"	1-1/4"	1-1/2"	
			OWNER-FURNISHED, STAINLESS STEEL, SINGLE COMPARTMENT TANK. MECHANICAL CONTRACTOR											
			TO FURNISH 1-1/2" P-TRAP, 1/2" COMP. STOP SET, AMERICAN STANDARD COLONY SOFT MODEL											
JBMERSION TANK	ST-1	1	4275.550 FAUCET.	2	2	1	1	1.4	1/2"	1/2"	1-1/2"	1-1/4"	1-1/2"	
			ZURN, MODEL Z415B, FLOOR DRAIN COMPLETE WITH 2" PIPE SIZE CONNECTION, NO-HUB OUTLET,											
OOR DRAIN	FD-1	3	POLISHED NICKEL BRONZE TOP	0	-	-	_	-	_	_	2"	_	2"	
			AO SMITH ELECTRIC WATER HEATER, MODEL ENT-30, COMPLETE WITH 30 GALLON CAPACITY,											
ECTRIC WATER HEATER	EWH-1	1	DRAIN VALVE, AND TEMPERATURE/PRESSURE VALVE.	-	-	-	_	-	3/8" - 1/2"	3/8" - 1/2'	· -	-	-	
			LAWLER, MODEL 801 THERMOSTATIC MIXING VALVE COMPLETE WITH BRONZE FINISH, 70-100°F											
HERMOSTATIC MIXING VALVE	TMV-1	1	RANGE, ISOLATION VALVES, THERMOMETER, SET POINT = 80°F, AND LEAD FREE CERTIFIED.	-	-	-	_	_	3/4"	3/4"	-	_	-	
			LAWLER, MODEL 801 THERMOSTATIC MIXING VALVE COMPLETE WITH BRONZE FINISH, 90-120°F											
HERMOSTATIC MIXING VALVE	TMV-2	1	RANGE, ISOLATION VALVES, THERMOMETER, SET POINT = 110°F, AND LEAD FREE CERTIFIED.	-	-	-	_	_	3/4"	3/4"	-	-	-	
PANSION TANK	ET-1	1	AMTROL THERM-X-TROL MODEL ST-12 EXPANSION TANK.	-	-	-	-	_	3/4"	-	-	-	-	
			BELL & GOSSETT MODEL LR-15BWR, LEAD FREE BRONZE, CIRCULATING PUMP COMPLETE WITH											
RCULATING PUMP	CP-1	1	TEMPERATURE SENSOR.	-	-	-	-	_	_	1/2"	_	_	_	
			GUARDIAN MODEL GBF1909 BARRIER-FREE SAFETY STATION WITH EYE/FACE WASH AND SHOWER											
			HEAD, ADA COMPLIANT, EYE/FACE WASH AND SHOWER VALVES, 10" DIAMETER ABS PLASTIC											
MERGENCY			SHOWER HEAD CONSTRUCTION, AND PIPE/FITTINGS FURNISHED WITH ORANGE POLYETHYLENE											
YEWASH/SHOWER	EEWS-1	1	PIPE COVERS.		_	_				1-1/4"				

ABOVEGROUND PLUMBING NOTES / SPECIFICATIONS

- 1.) ALL PLUMBING WORK TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES INCLUDING THE LATEST ADDITION OF THE IPC WITH AMENDMENTS
- 2.) ABOVEGROUND PLUMBING WASTE AND VENT SYSTEMS SHALL BE PVC DWV PIPE AND FITTINGS WITH SOLVENT CEMENT
- JOINTS. ALL MATERIAL TO BE IN ACCORDANCE WITH ASTM D-2664.
- JOINTS SHALL BE SOLDER STYLE WITH ONLY LEAD FREE SOLDER USED. 4.) ABOVEGROUND PLUMBING TO BE POLYETHYLENE (PEX) TUBING. USE BLUE TUBE FOR COLD WATER & RED TUBE FOR
- HOT WATER. USE PEX APPROVED FITTINGS.
- 5.) FURNISH 1/2" ARMAFLEX II TYPE FR INSULATION ON ALL WATER LINES 2" AND SMALLER. FURNISH 1" FIBERGLASS WITH ALL PURPOSE JACKET ON ALL LARGER SIZES. INSULATE PVC WASTE AND VENT LINES NOT CONTAINED IN CHASES WITH 1/2" ARMAFLEX AS LISTED ABOVE.

3.) ABOVEGROUND PLUMBING WATER SYSTEMS SHALL BE COPPER HARD TYPE "L" TUBING WITH WROT COPPER FITTINGS.

- 6.) HYDROSTATIC TEST ALL DRAINAGE SYSTEMS PRIOR TO COVERING OR SEALING IN CHASES. PRESSURE TEST ALL
- DOMESTIC WATER LINES AFTER FLUSHING AND CHLORINATING. 7.) FURNISH APPROVAL SUBMITTALS TO ARCHITECT AND OWNER PRIOR TO RELEASE OF EQUIPMENT. FURNISH AS-BUILT

DAYS PER ANSI/AWWA C651-92, THE AWWA STANDARD FOR DISINFECTING WATER MAINS.

DRAWINGS ON BLUEPRINTS AT COMPLETION OF PROJECT.

- 8.) ALL WORK & DISINFECTION OF MAINS SHALL CONFORM TO STATE AND LOCAL PLUMBING & BACKFLOW PREVENTION
- 9.) ALL WATER TAPS, WATER LINES AND FIRE LINES 3" OR LARGER MUST BE DISINFECTED. ALL SAMPLES FROM TWO CONSECUTIVE DAYS MUST BE TAKEN TO AN APPROVED TESTING LAB, AND THE LAB ANALYSIS REPORTS MUST BE SUBMITTED TO DEVELOPMENT SERVICES SHOWING THAT THE SAMPLES HAVE PASSED THE TESTS FOR TWO CONSECUTIVE
- VACUUM BREAKERS MUST BE INSTALLED ON ALL EXISTING OR PROPOSED HOSE BIBS, MOP/SERVICE SINKS AND WALL 10.) YARD HYDRANTS.
- BACKFLOW DEVICES ARE TO BE TESTED UPON INSTALLATION WITH TEST RESULTS SUBMITTED TO DEVELOPMENT 11.)SERVICES. FOR EXISTING BACKFLOW DEVICES, A REPORT CONFORMANCE WITH REGULATIONS AND STATE CODE MUST BE SUBMITTED TO THE LOCAL UTILITY. BACKFLOW DEVICES MOUNTED 12"-60" A.F.F.

	PIPE & FITTINGS SPECIFI	CATION (PS-7i)					
SERVICE	SANITARY DRAIN, WAS	STE AND VENT PIPING					
PRESSURE	GRA	GRAVITY					
LOCATION	ABOVE AND B	ELOW GROUND					
SIZE	2" AND SMALLER	3" AND LARGER					
SLOPE (MIN.)	1/4" PER FOOT	1/8" PER FOOT					
PIPE	PVC SCHEDULE 40 TYPE DWV PIPE AND FITTINGS	PVC SCHEDULE 40 TYPE DWV PIPE AND FITTINGS					
& FITTINGS	CONFORMING TO ASTM D-1784, ASTM D-1785,	CONFORMING TO ASTM D-1784, ASTM D-1785,					
	ASTM D-2665 AND NSF STANDARD 14.	ASTM D-2665 AND NSF STANDARD 14.					
JOINTS	SLOVENT WELD WITH PRIMER CONFORMING TO	SLOVENT WELD WITH PRIMER CONFORMING TO					
	ASTM SOLVENT CEMENT SHALL CONFORM TO	ASTM SOLVENT CEMENT SHALL CONFORM TO					
	ASTM D-2564.	ASTM D-2564.					
TESTING	TEST PIPING USING REQUIREMENTS OF LOCAL OR STATE CODE OR BY	MEANS OF THE WATER TEST					
	TEST WITH A WATER HEIGHT OF 10'-0" OR 4.3 PSI.						
NOTES:							
1	BEDDING, COMPACTION AND BACKFILL SHALL CONFORM TO LOCAL AND	STATE CODES AND					
	MANUFACTURERS RECOMMENDATIONS.						
2	THE USE OF FOAM CORE TYPE PIPE AND FITTINGS IS NOT PERMITTED.						
3	THE USE OF PVC DWV PIPING IN PLENUM AREAS IS PROHIBITED UNLE	SS PIPING MEETS OR EXCEEDS					
	SMOKE AND FLAME SPREAD REQUIREMENTS						
4							

UNDERGROUND PLUMBING NOTES / SPECIFICATIONS

- ALL UNDERGROUND PLUMBING WORK TO BE IN ACCORDANCE WITH THE LATEST ADDITION OF IPC AND THE INDIANA STATE PLUMBING CODE WITH AMENDMENTS.
- UNDERGROUND MATERIAL TO BE PVC DWV PIPE AND FITTINGS WITH SOLVENT CEMENT JOINTS. MATERIAL TO BE IN ACCORDANCE WITH ASTM D2664.
- .) ALL UNDERGROUND WATER LINES SMALLER THAN 3" SHALL BE COPPER TYPE "K". LINES 3" OR LARGER SHALL BE DUCTILE IRON FROM POINT OF CONNECTION TO METER.
- .) ALL MATERIAL TO BE EXCAVATED FROM TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE BACKFILL MATERIAL FOR BEDDING AND COVER ON PIPING.
- 5.) VERIFY EXISTING INVERT ELEVATION PRIOR TO STARTING WORK.

FIXTURE MOU	INTING HEIGHTS
TAG	HEIGHTS TO RIM
WC-1 (REGULAR)	12" TO RIM
WC-2 (ADA)	17 1/2" TO RIM
L-1 (REGULAR)	32"-34" TO RIM
L-2 (ADA)	32"-34" TO RIM
UR-1 (REGULAR)	24" TO RIM
UR-2 (ADA)	17" TO RIM

HEIGHTS FOR WC-2, UR-2, LAV-1, LAV-2, EWC-1 SHOULD COMPLY WITH THE LATEST INFORMATION FOR FIXTURES LISTED IN THE ADA AS PUBLISHED IN THE FEDERAL REGISTER, AND STATE OF IND. PLUMBING CODE

PLUMBING INSULATION SPECIFICATIONS

- ARMAFLEX-II-FR 1/2" THICKNESS ALL SIZES UP TO 2" DIAMETER. 2 1/2" AND LARGER TO
- BE 1" FIBERGLASS WITH ALL PURPOSE JACKET. CONDENSATE - ARMAFLEX II-FR 1/2" THICKNESS ALL SIZES UP TO 2" DIAMETER.

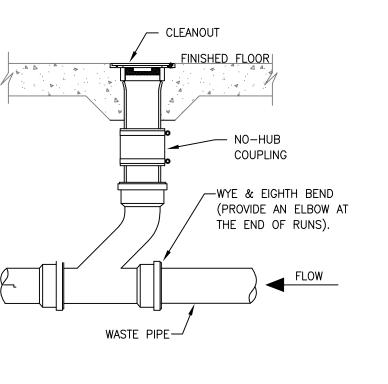
HORIZONTAL AND 1ST ELBOW TO VERTICAL.

- ARMAFLEX II-FR 1/2" THICK OR 1" FIBERGLASS WITH ALL PURPOSE JACKET. INSULATE ALL

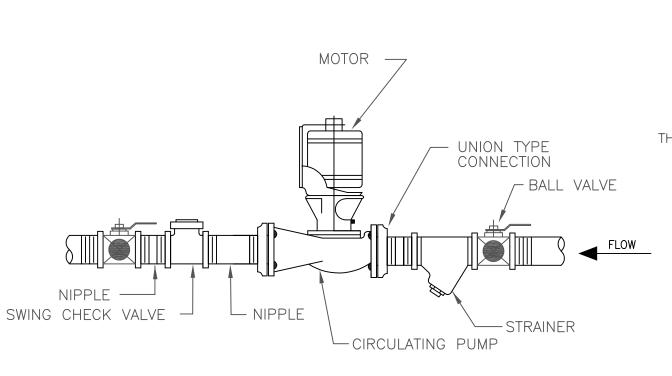
FLOOR DRAIN FINISHED FLOOR RETAINER RING TAIL PIECE NO HUB CONNECTOR COUPLING PVC DEEP SEAL P-TRAP	STAINLESS STEEL WIRE MESH 1/4"x1/4" S.S. CLAMPING RING NON-INSULATED PIPE LAP SEALANT PIPE INSULATION MEMBRANE FLASHING PIPE SEAL (FIELD FABRICATED) SPLICING CEMENT LAP SEALANT AP SEALANT 1/2" (MIN.) FOAM-IN-PLACE URETHANE OR DOW CORNING #3-6548 SILICONE RTV RESILIENT FOAM PENETR. SEALANT IN PIPE SLEEVE
FLOOR DRAIN (FD-1)	VENT THRU ROOF

SCALE: N.T.S.

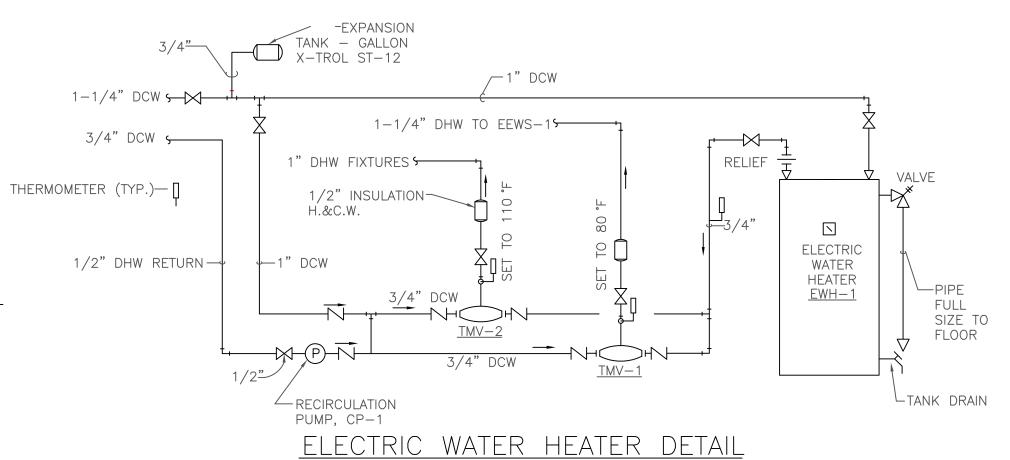
SCALE: N.T.S.







IN-LINE CIRCULATING PUMP P-1 DETAIL NOT TO SCALE



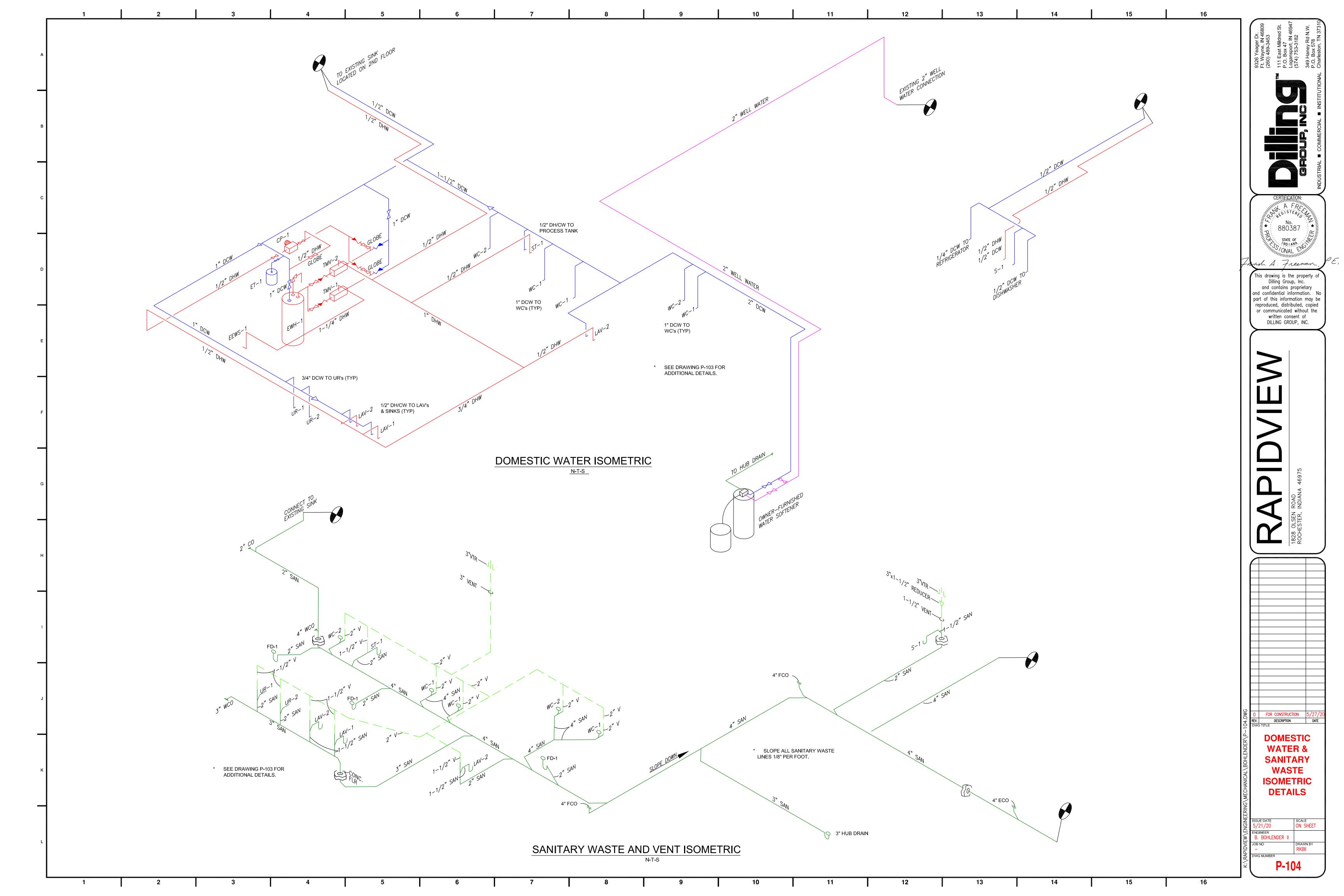
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FOR CONSTRUCTION DESCRIPTION **PLUMBING FIXTURE SCHEDULES DETAILS** B. BOHLENDER II



		Luminaire	e Schedu	ıle		
NOTES: 1. ALL LIGHT FIXTU 2. ALL LIGHT FIXTU	RES ARE 120V. RES COLOR TEMPERATU	URE IS TO BE 4000K U.O.N.				
Index	Manufacturer	Luminaire type	Item number	Luminous flux	Connected load	Designation
4' Strip	COLUMBIA LIGHTING	Narrow LED, Surface Narrow Strip Light 4ft with frosted linear prismed lens Data Scaled from Test# 17.02544	MPS4-40HL-FW -EDU	5813 lm	49.4 W	S4
2' Strip	COLUMBIA LIGHTING	linear prismed lens	MPS2-30ML-FW -EDU	3354 lm	22 W	S2
2X2 VOL	COLUMBIA LIGHTING	LCAT Led Architectural Troffer, Recessed Architectural 2 x 2 led with frosted linear prismed lens Data Scaled from Test# 16.02035	LCAT22-35HLG -EU	3704 lm	28 W	В
D1	Intense Lighting	6"SS LED Downlight Gen 4	SS6G4DRL3358 /IC630HZ	1706 lm	17.2 W	D1
6" CYL	Intense Lighting	6"SS LED Cylinder Gen 4	SS6G4CL3358 /IC630HZ	1706 lm	17.2 W	6" CYL
2X4 VOL	COLUMBIA LIGHTING	LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prismed lens Data Scaled from Test# 16.02471	LCAT24-35HLG -EU	5602 lm	44 W	А
2x4 FP	LITHONIA LIGHTING	Led Edge—Lit, Recessed 2' x 4' Flat panel	CFP24-5540	5606 lm	44 W	2x4 FP 5k
7" Tube	OCL LIGHTING	Circular grey aluminum top driver holder with white alumin um LED housing, and a frosted lens with a circular grey aluminum ring cap		4722 lm	57 W	OCL2
4' Vanity	COLUMBIA LIGHTING	CWM Contemporary Wall Mount, Surface 4ft Wall Mount with Frosted Lens Data Scaled from Test#	CWM4-40ML-FR -EDU	4831 lm	38 W	V4
2' Vanity	COLUMBIA LIGHTING	16.02170 CWM Contemporary Wall Mount, Surface 2ft Wall Mount with Frosted Lens Data Scaled from Test# 16.02064	CWM2-40ML-FR -EDU	3310 lm	30 W	V2
Uplights	HUBBELL OUTDOOR	LED Bullet 4K, Medium Lens	BUL-1L4K-U (Medium)	1980 lm	17 W	Uplights
36" Pendant	OCL LIGHTING	36" dual direction pendant		13360 lm	160 W	OCL

ELECTRICAL DEMOLITION PLAN NOTES:

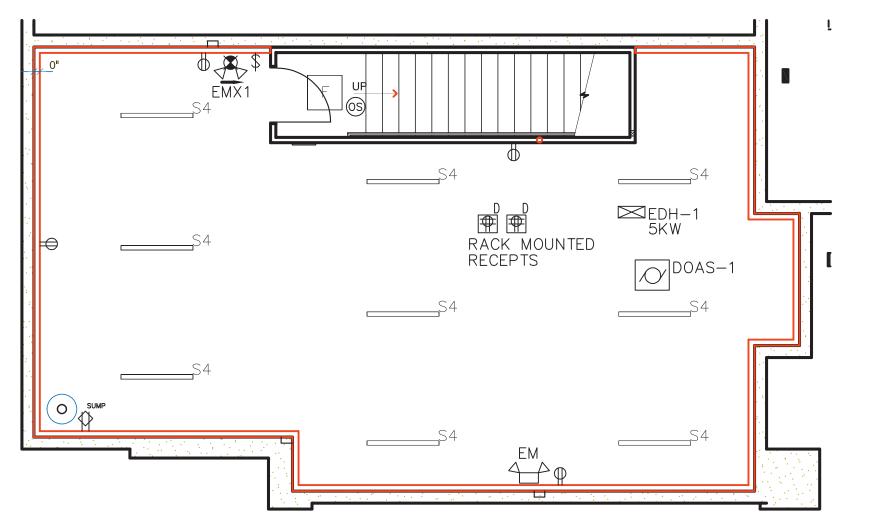
- ALL ELECTRICAL WORK TO BE INSTALLED PER N.E.C. 2008, ANY APPLICABLE AMENDMENTS, AND ANY REQUIREMENTS PER LOCAL AUTHORITY HAVING JURISDICTION.
- 2. E.C. SHALL VERIFY EACH CIRCUIT PRIOR TO DE-ENERGIZING THE CIRCUIT TO ENSURE CIRCUITS OUTSIDE THE WORK AREA ARE NOT EFFECTED. ALL CIRCUIT INTERRUPTIONS ARE TO BE A SCHEDULED OUTAGE WITH THE OWNER.
- ALL EXISTING BRANCH CIRCUITS NO LONGER IN-USE ARE TO BE REMOVED
- COMPLETE BACK TO THE SOURCE ELECTRICAL PANEL. COORDINATE ALL MECHANICAL EQUIPMENT DISCONNECTIONS WITH THE
- MECHANICAL CONTRACTOR PRIOR TO DISCONNECTION.
- ALL OTHER SPECIAL SYSTEM CABLING AND DEVICES ARE TO BE REMOVED BY THE OWNER'S REPRESENTATIVES (TELEPHONE, DATA, SOUND, BUILDING AUTOMATION, EQUIPMENT CABLING). COORDINATE SCHEDULING FOR DE-ENERGIZING THESE SYSTEMS WITH THE OWNER PRIOR TO BEGINNING WORK.
- 6. ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED WILL BE DE-ENERGIZED AND MADE SAFE FOR WALL DEMOLITION.

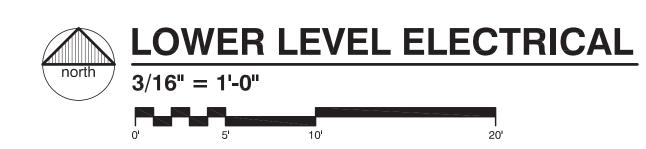
ELECTRICAL SPECIFICATION NOTES:

- 1. ALL ELECTRICAL WORK TO BE INSTALLED PER N.E.C. 2008, AND ANY
- REQUIREMENTS PER LOCAL AUTHORITY HAVING JURISDICTION.
- 2. NO MORE THAN 8 DUPLEX RECEPTACLES SHALL BE FED FROM A 20AMP, 120V CIRCUIT (U.O.N.).

COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS WITH

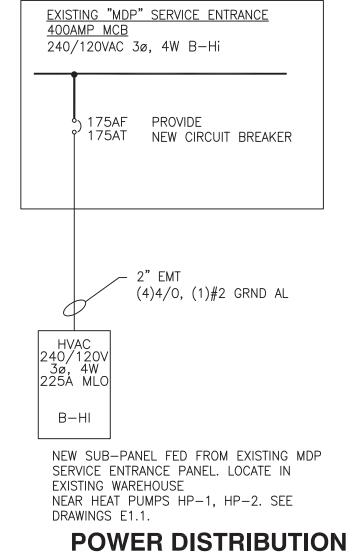
- THE MECHANICAL CONTRACTOR PRIOR TO BEGINNING WORK.
- 4. ALL CONDUCTORS ARE TO BE THHN COPPER, AND A MINIMUM #12 AWG.
- ALL RACEWAYS SHALL CONTAIN A GROUNDING CONDUCTOR.
- CIRCUITS SUPPLYING LINE TO NEUTRAL LOADS SHALL HAVE DEDICATED
- NEUTRALS, ONE NEUTRAL PER PHASE.
- 7. ALL CABLES AND CONDUITS ARE TO INSTALLED PARALLEL OR PERPENDICULAR
- TO THE BUILDING STRUCTURE.
- COORDINATE THE MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL ELEVATIONS, AND COMPLY WITH A.D.A. REQUIREMENTS.





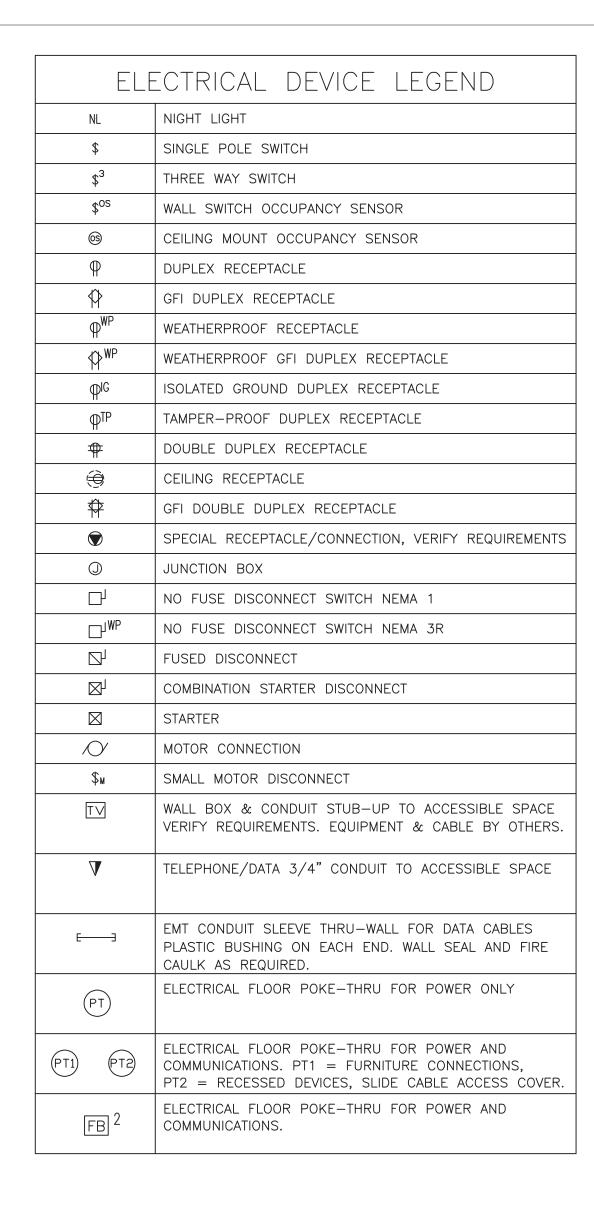
ELECTRICAL PLAN NOTES:

- ALL ELECTRICAL WORK TO BE INSTALLED PER N.E.C. 2008, ANY APPLICABLE AMENDMENTS, AND ANY REQUIREMENTS PER LOCAL AUTHORITY HAVING
- JURISDICTION. NO MORE THAN 8 DUPLEX RECEPTACLES SHALL BE FED FROM A 20AMP, 120V
- CIRCUIT (U.O.N.). COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS WITH THE
- MECHANICAL CONTRACTOR PRIOR TO BEGINNING WORK.
- GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT OUTLET BOX.
- VERIFY INTERIOR ELEVATION DRAWING PRIOR TO ELECTRICAL ROUGH-IN FOR THIS



ONE-LINE DIAGRAM

NO SCALE

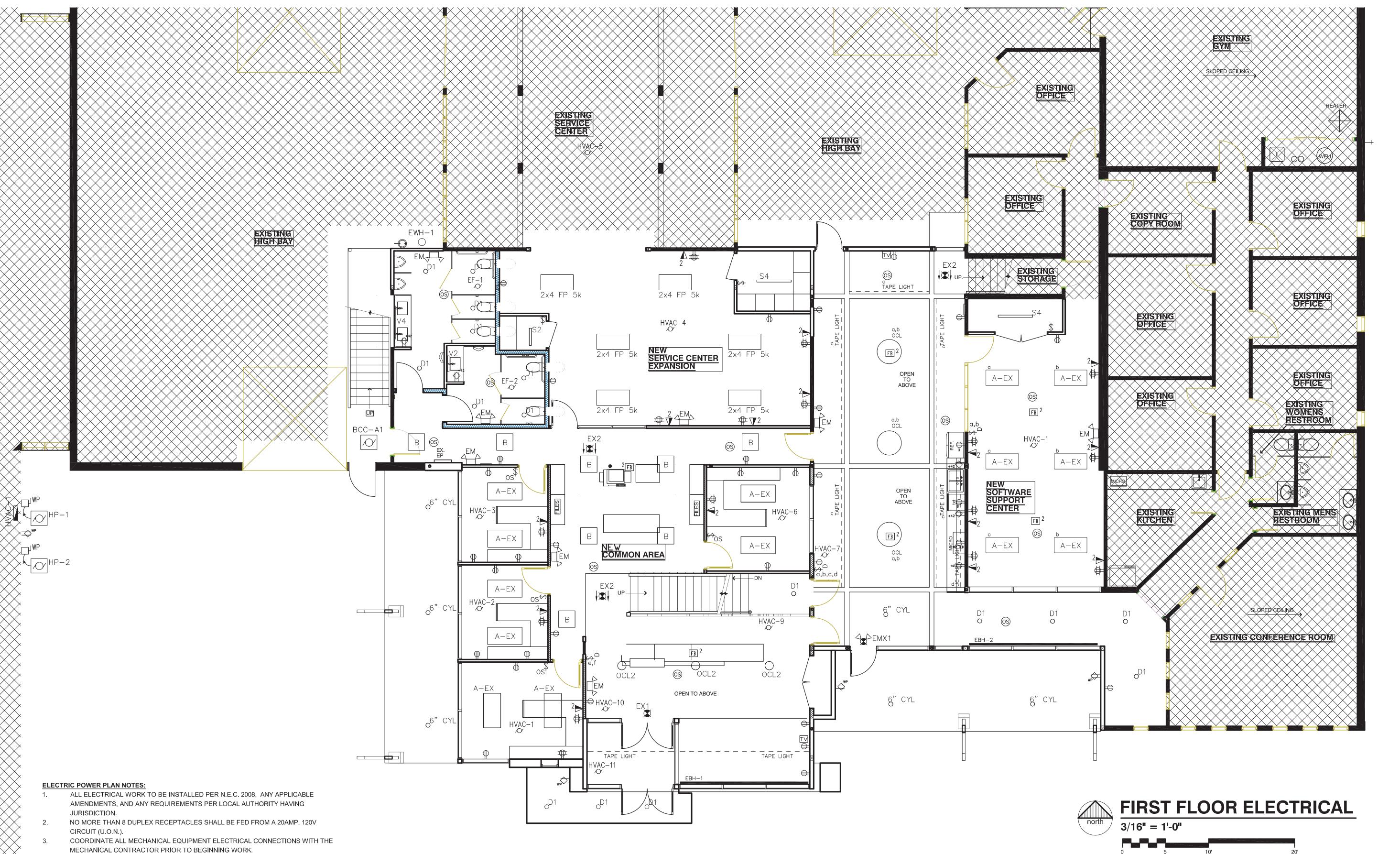


ADA MOUNTING HEIGHTS	
SINGLE RECEPTACLE	18"
DUPLEX RECEPTACLE	18"
GFI DUPLEX RECEPTACLE	18"
WEATHERPROOF RECEPTACLE	18"
WEATHERPROOF GFI DUPLEX RECEPTACLE	18"
DUPLEX COMPUTER RECEPTACLE	18"
ISOLATED GROUND DUPLEX RECEPTACLE	18"
DOUBLE DUPLEX RECEPTACLE	18"
ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE	18"
GFI DOUBLE DUPLEX RECEPTACLE	18"
SINGLE POLE SWITCH	48"
THREE WAY SWITCH	48"
FOUR WAY SWITCH	48"
LOW VOLTAGE SWITCH	48"
FIRE ALARM PULL STATION	48"
FIRE ALARM HORN	80"
FIRE ALARM HORN/STROBE	80"

SPECIAL SYSTEMS LEGEN



DRAWING NUMBER SHEET NO.



GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT

AMENDMENTS, AND ALL REQUIREMENTS PER THE LOCAL AUTHORITY HAVING

COORDINATE LUMINAIRE LOCATIONS WITH OTHER TRADES INCLUDING HVAC EQUIPMENT, DUCTWORK, PLUMBING, AND BUILDING STRUCTURAL COMPONENTS. WALL MOUNT LIGHT FIXTURE MOUNTING HEIGHTS AND EXACT LOCATION ARE TO BE

COORDINATED WITH THE ARCHITECTURAL ELEVATION DRAWINGS PRIOR TO

LOWER CASE LETTERS AT THE LIGHT FIXTURE TYPE AND SWITCH DESIGNATIONS

1. ALL ELECTRICAL WORK TO BE INSTALLED PER N.E.C. 2008, ANY APPLICABLE

("a") INDICATE A SEPARATE LIGHTING CONTROL CHANNEL.

VERIFY INTERIOR ELEVATION DRAWING PRIOR TO ELECTRICAL ROUGH-IN FOR THIS

THE RESTROOM LIGHT FIXTURE AND THE EXHAUST FAN SHALL BE CONTROLLED BY

OUTLET BOX.

ONE OCCUPANCY SWITCH.

ELECTRICAL ROUGH-IN.

AREA.

LIGHTING PLAN NOTES:

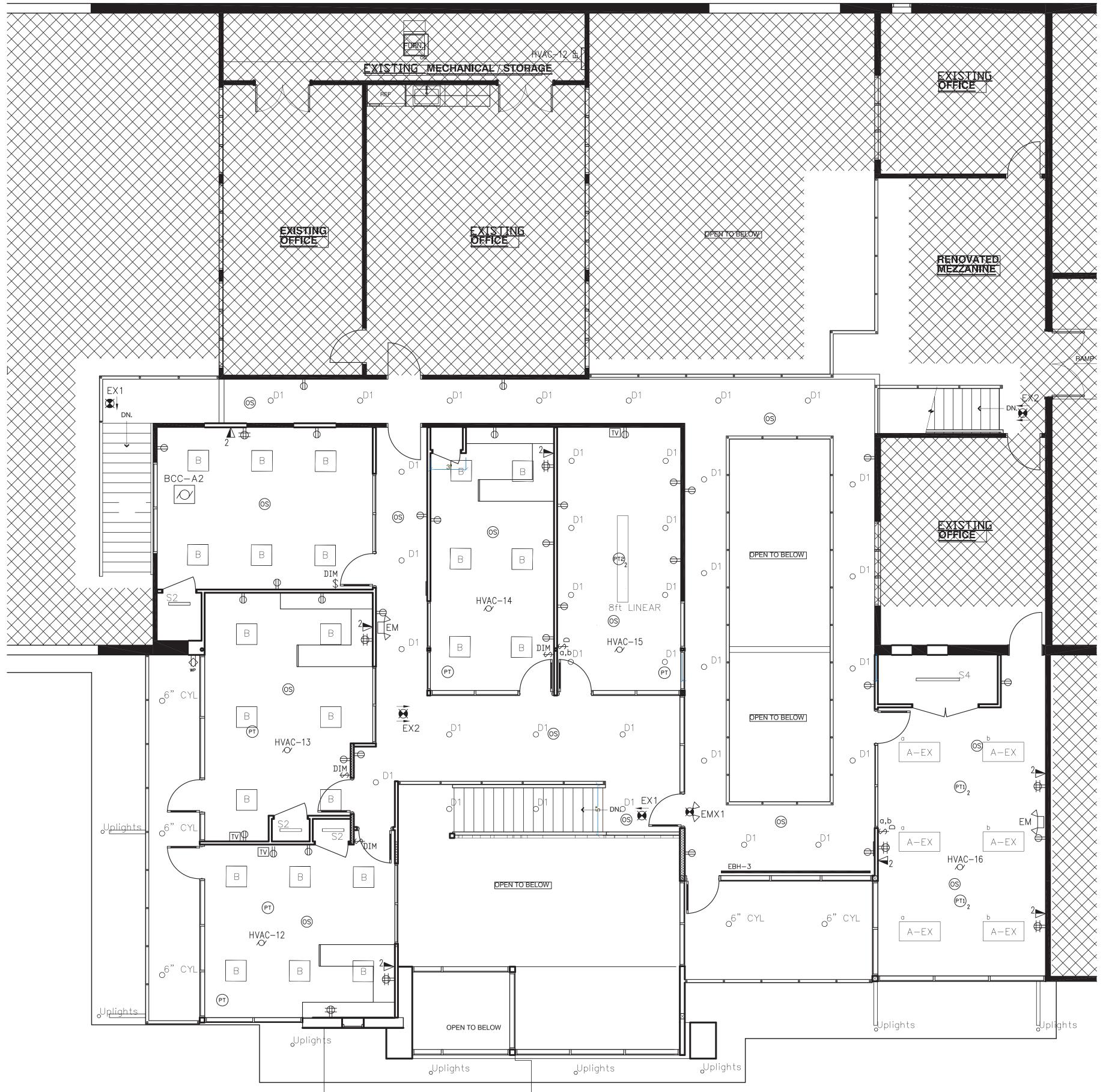


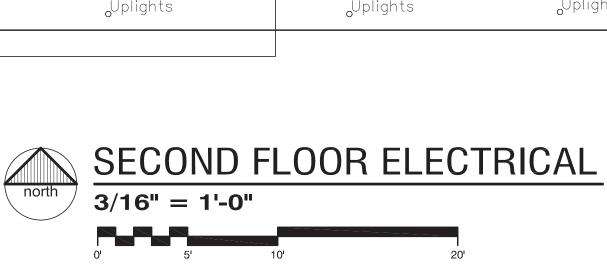
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NL	NIGHT LIGHT
\$	SINGLE POLE SWITCH
*3 \$3	THREE WAY SWITCH
**************************************	FOUR WAY SWITCH
Φ	DUPLEX RECEPTACLE
π	GFI DUPLEX RECEPTACLE
$ \frac{M}{P^{WP}} $	WEATHERPROOF RECEPTACLE
₩ ^P	WEATHERPROOF GFI DUPLEX RECEPTACLE
M ΦIG	ISOLATED GROUND DUPLEX RECEPTACLE
<u> </u>	TAMPER-PROOF DUPLEX RECEPTACLE
<u>₩</u>	DOUBLE DUPLEX RECEPTACLE
—————————————————————————————————————	CEILING RECEPTACLE
<u>₩</u>	GFI DOUBLE DUPLEX RECEPTACLE
<u> </u>	SPECIAL RECEPTACLE/CONNECTION, VERIFY REQUIREMENTS
	JUNCTION BOX
 	NO FUSE DISCONNECT SWITCH NEMA 1
	NO FUSE DISCONNECT SWITCH NEMA 3R
	FUSED DISCONNECT
	COMBINATION STARTER DISCONNECT
$oxed{\boxtimes}$	STARTER
	MOTOR CONNECTION
\$ _M	SMALL MOTOR DISCONNECT
TV	WALL BOX & CONDUIT STUB-UP TO ACCESSIBLE SPACE VERIFY REQUIREMENTS. EQUIPMENT & CABLE BY OTHERS.
V	TELEPHONE/DATA 3/4" CONDUIT TO ACCESSIBLE SPACE
€3	EMT CONDUIT SLEEVE THRU—WALL FOR DATA CABLES PLASTIC BUSHING ON EACH END. WALL SEAL AND FIRE CAULK AS REQUIRED.
PT	ELECTRICAL FLOOR POKE—THRU FOR POWER AND COMMUNICATIONS.

ELECTRIC POWER PLAN NOTES:

- 1. ALL ELECTRICAL WORK TO BE INSTALLED PER N.E.C. 2008, ANY APPLICABLE AMENDMENTS, AND ANY REQUIREMENTS PER LOCAL AUTHORITY HAVING JURISDICTION.
- 2. NO MORE THAN 8 DUPLEX RECEPTACLES SHALL BE FED FROM A 20AMP, 120V CIRCUIT (U.O.N.).
- 3. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS WITH THE
- MECHANICAL CONTRACTOR PRIOR TO BEGINNING WORK.

 4. EXISTING ELECTRICAL PANEL SERVING THE 2ND FLOOR. ALL CIRCUITS FOR THE
- NEW 2ND FLOOR ADDITION SHALL BE FED FROM THIS PANEL.

GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT

- 6. VERIFY INTERIOR ELEVATION DRAWING PRIOR TO ELECTRICAL ROUGH-IN FOR THIS
- AREA.

LIGHTING PLAN NOTES:

- ALL ELECTRICAL WORK TO BE INSTALLED PER N.E.C. 2008, ANY APPLICABLE AMENDMENTS, AND ALL REQUIREMENTS PER THE LOCAL AUTHORITY HAVING JURISDICTION.
- 2. THE RESTROOM LIGHT FIXTURE AND THE EXHAUST FAN SHALL BE CONTROLLED BY ONE OCCUPANCY SWITCH.
- 3. COORDINATE LUMINAIRE LOCATIONS WITH OTHER TRADES INCLUDING HVAC
- EQUIPMENT, DUCTWORK, PLUMBING, AND BUILDING STRUCTURAL COMPONENTS.

 4. WALL MOUNT LIGHT FIXTURE MOUNTING HEIGHTS AND EXACT LOCATION ARE TO BE COORDINATED WITH THE ARCHITECTURAL ELEVATION DRAWINGS PRIOR TO
- ELECTRICAL ROUGH-IN.

 5. LOWER CASE LETTERS AT THE LIGHT FIXTURE TYPE AND SWITCH DESIGNATIONS
 ("a") INDICATE A SEPARATE LIGHTING CONTROL CHANNEL.



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ELECTRICAL & TECHNOLOGIES
FULL SERVICE CONTRACTOR
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NUMBER:

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ENGINEER:

JUTHORITY HAVING

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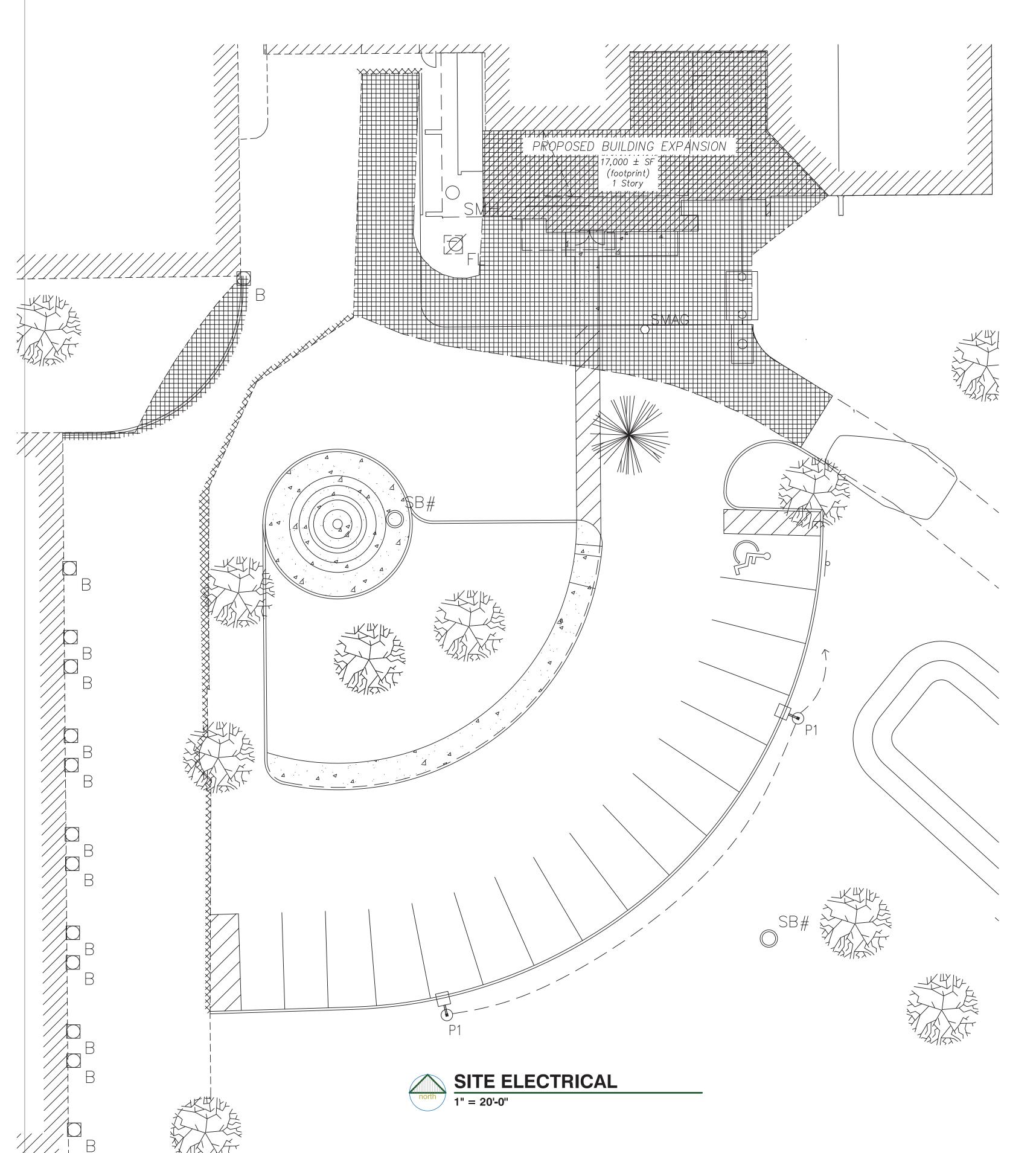
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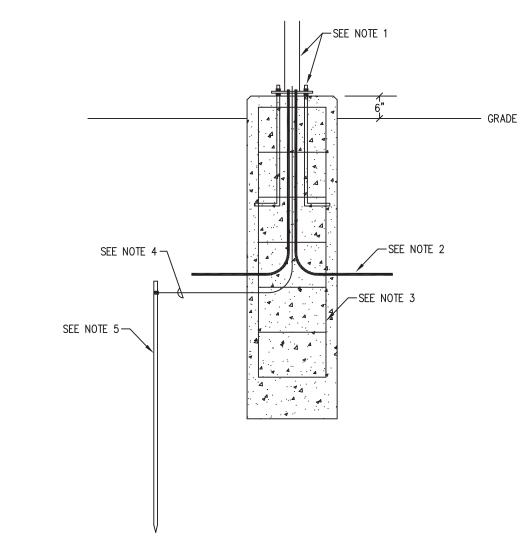
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			Luminair	e parts list				
Index	Manufacturer	Luminaire type	Item number	Fitting	Luminous flux	Light loss factor	Connected load	Quantity
P1	Industrial Lighting Products Inc	Gray formed aluminum, clear plastic optics	AL-110W-U-40 -T4	1x96 white LEDs	17031 lm	0.80	112.6 W	2



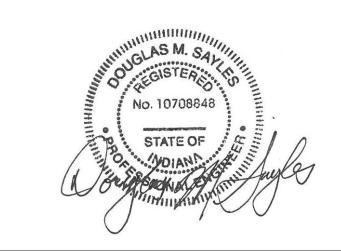
- NOTES:

 1. POLE AND ANCHOR BOLTS BY MANUFACTURER.
 2. 1" PVC CONDUIT UNLESS OTHERWISE SPECIFIED.
 3. (8) #4 VERTICAL WITH #3 TIES ON 12" CENTERS.
 4. #6AWG SOLID COPPER BOND TO POLE.
 5. 1/2" x 10'-0" COPPER CLAD GROUND ROD.
 6. SONET TUBE SHALL FORM ONLY 24" BELOW GRADE FOR CONCRETE BASE SET-UP.
 7. BASE DIAMETER AND BASE DEPTH BELOW GRADE ARE AS FOLLOWS.
 ** 14' POLE = 18" DIA. x 5' BELOW GRADE

CONCRETE LIGHT POLE DETAIL

SITE ELECTRICAL NOTES:

- ALL ELECTRICAL WORK TO BE INSTALLED PER N.E.C. 2008, ANY APPLICABLE AMENDMENTS, AND ANY REQUIREMENTS PER LOCAL AUTHORITY HAVING
- 120V SITE LIGHTING CIRCUIT FED FROM BUILDING SITE LIGHTING CONTACTOR.
- UTILIZE 3/4" SCH 40 PVC CONDUIT WITH #10 THHN CU. SITE LIGHTING IS TO BE CONTROLLED BY A DAWN TO DUSK PHOTOCELL IN
- CONJUNCTION WITH AN ENERGY SAVINGS 24/7 TIMECLOCK. CONCRETE LIGHT POLE BASE WILL BE SETBACK 12 INCHES FROM THE PARKING
- CALL FOR UNDERGROUND UTILITIES LOCATES 48HRS PRIOR TO EXCAVATION.





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REVIEWED BY:	ZS	SIIE ELECTRICAL PLAN			MG			
APPROVED BY:	DMS							

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