

ABBREVIATIONS

AC	AIR CONDITIONING UNIT/ACCESS SECTION	ECH	ELECTRIC CABINET HEATER	MOCP	MAXIMUM OVERCURRENT PROTECTION
ACC	AIR COOLED CONDENSING UNIT	ET	EXPANSION TANK	MIN	MINIMUM
AD	ACCESS DOOR	EUH	ELECTRIC UNIT HEATER	NIC	NOT IN CONTRACT
AF	AFTER FILTER	ENC	EVAPORATIVE WATER COOLER	NOM	NOMINAL
AFCV	AIR FLOW CONTROL VALVE	EPW	ELECTRIC WALL HEATER	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	ENT	ENTERING WATER TEMPERATURE	OA	OUTSIDE AIR
AFG	ABOVE FINISHED GRADE	(EX)	EXISTING	OBDD	OPPOSED BALDE DAMPER
AFM	AIR FLOW MEASURING DEVICE	EXH	EXHAUST	P	PUMP
AHU	AIR HANDLING UNIT	FC	FLEXIBLE CONNECTION	PD	PRESSURE DROP (FEET OF WATER)
AP	ACCESS PANEL	FCU	FAN COIL UNIT	PD	CONDENSATE PUMP DISCHARGE
ATC	AUTOMATIC TEMPERATURE CONTROL	FD	FIRE DAMPER	PLBG	PLUMBING
B	BOILER	FDR	FLOOR DRAIN	PF	PRE-FILTER
BDD	BACKDRAFT DAMPER	FLA	FULL LOAD AMPS	PGW	PROPYLENE GLYCOL-WATER SOLUTION
BF	FEED WATER PUMP DISCHARGE	FLR	FLOOR	PHC	PREHEAT COIL
BLW	BELOW	FMB	FILTER MIXING BOX	PRV	PRESSURE REDUCING VALVE
BO	BLOW OFF/BLOW DOWN	FM	WATER FLOW MEASURING DEVICE	PSIG	POUNDS/SQUARE INCH
BOS	BOTTOM OF STEEL/STRUCTURE	FS	FEET PER MINUTE	PVC	POLYVINYL CHLORIDE
BRD	BAROMETRIC DAMPER	FT-A	FIN YUBE RADIATION-TYPE A	RA	RETURN AIR
BS	BASKET STRAINER	FV	FACE VELOCITY	RA	RETURN AIR FAN/RELIEF
C	CONDENSER WATER SUPPLY	GCR	GLYCOL CHILLED-WATER RETURN	RG	RETURN GRILLE
CAF	COMBUSTION AIR FAN	GC	GLYCOL CHILLED-WATER SUPPLY	RHC	REHEAT COIL
CC	COOLING COIL	GDF	GAS DUCT FURNACE	Rh	RELATIVE HUMIDITY
CD	CONDENSATE DRAIN/CEILING DIFFUSER	GHP	GEOTHERMAL HEAT PUMP	RHG	REFRIGERANT HOT GAS
CF	CENTRIFUGAL FAN	GHR	GLYCOL HOT-WATER RETURN	RL	REFRIGERANT LIQUID
CFM	CUBIC FEET PER MINUTE	GHS	GLYCOL HOT-WATER SUPPLY	RL	REFRIGERANT LIQUID
CH	CHILLER	GPM	GALLONS PER MINUTE	RR	RETURN REGISTER
CIR	CAST IRON RADIATOR	GUH	GAS UNIT HEATER	RS	REFRIGERANT SUCTION
CO	CLEAN OUT	H	HIGH	RTU	ROOFTOP UNIT
COMP	COMPRESSOR UNIT	HC	HEATING COIL	RV	POWER TYPE ROOF VENTILATOR
CONC	CONCRETE	HD	HOOD	SA	SUPPLY AIR
CP	CONDENSATE PUMP	HE	AIR TO AIR HEAT EXCHANGE	SAU	SOUND ATTENUATING UNIT
CR	CONDENSER WATER RETURN/CEILING RETURN	HEF	HIGH EFFICIENCY FURNACE	SD	SMOKE DAMPER
CRU	COMPUTER ROOM UNIT	HF	HEPA FILTER	SF	SUPPLY FAN
CT	COOLING TOWER	HP	HORSEPOWER	SG	SUPPLY GRILLE
CU	CONDENSING UNIT/COOLING UNIT	HPC	HIGH PRESSURE STEAM CONDENSATE RETURN	SL	STORM LOUVER
CUH	CABINET UNIT HEATER	HPS	HIGH PRESSURE STEAM (16 PSIG & ABOVE)	SP	STATIC PRESSURE (INCHES OF WATER)
CV	CONNECTOR	HPWS	HEAT PUMP WATER SUPPLY	SPP	SINGLE POINT POWER
CW	COLD WATER	HRP	HYDRONIC RADIANT CEILING PANEL	SPS	STATIC PRESSURE SENSOR
CWR	CHILLED WATER RETURN	HPWR	HEAT PUMP WATER RETURN	SR	SUPPLY REGISTER
CWS	CHILLED WATER SUPPLY	HTWR	HIGH TEMP. HOT WATER RETURN	Sp Gr	SPECIFIC GRAVITY
D	DRAIN/DEEP	HTWS	HIGH TEMP. HOT WATER SUPPLY	SRV	SAFETY RELIEF VALVE
Db	DRY BULB TEMPERATURE, °F	HU	HUMIDIFIER	SS	SOLIDS SEPARATOR
dB	DECIBELS	HVU	HEATING AND VENTILATING UNIT	STDBY	STANDBY
DDC	DIRECT DIGITAL CONTROL	HWR	HEATING HOT WATER RETURN	STL	STEEL
DISCH	DISCHARGE	HWS	HEATING HOT WATER SUPPLY	TG	TRANSFER GRILLE
DHU	DEHUMIDIFIER	HX	HEAT EXCHANGER	THK	THICK
DN	DOWN	ID	INSIDE DIAMETER	TOO	TOP OF DUCT
DP	DEW POINT TEMPERATURE, °F	IEF	INDUCTRIAL EXHAUST FAN	TSP	TOTAL STATIC PRESSURE
DSD	DUCT SMOKE DETECTOR	IFB	INTERGAL FACE AND BYPASS	TWU	THRU WALL UNIT
DTR	DUAL TEMP WATER RETURN	IR	INFRA RED	TYP	TYPICAL
DTS	DUAL TEMP WATER SUPPLY	IU	INDUCTION UNIT	UC	UNIT COOLER
DWH	DOMESTIC WATER HEATER	LAT	LEAVING AIR TEMPERATURE	U/C	UNDER CUT
DWG	DRAWING	LBS/HR	POUNDS PER HOUR	UH	UNIT HEATER
DX	DIRECT EXPANSION	LD	LINEAR DIFFUSER	UV	UNIT VENTILATOR
EA	EXHAUST AIR	LCD	LINEAR CEILING DIFFUSER	VD	VOLUME DAMPER (MANUAL)
EAT	ENTERING AIR TEMPERATURE	LPC	LOW PRESSURE STEAM CONDENSATE RETURN	VI	VIBRATION ISOLATOR
EC	EVAPORATIVE CONDENSER	LPS	LOW PRESSURE STEAM (15 PSIG & BELOW)	VAV	VARIABLE AIR VOLUME
ECC	ENGINEERING CONTROL CENTER	LR	LINEAR RETURN	VV	VARIABLE INLET VANE
EDH	ELECTRIC COIL DUCT HEATER	LRA	LOCKED ROTOR AMPS	VP	VACUUM PUMP
EER	ENERGY EFFICIENCY RATIO	LTPC	LOCAL TEMPERATURE CONTROL PANEL	VR	VACUUM STEAM CONDENSATE RETURN
EF	EXHAUST FAN	LWT	LEAVING WATER TEMPERATURE	V	VALVE, VENT
EG	EXHAUST GRILLE	MA	MIXED AIR	VTR	VENT THROUGH ROOF
EL	ELBOW	MAX	MAXIMM	Wb	WET BULB TEMPERATURE, °F
EGW	ETHYLENE GLYCOL-WATER SOLUTION	MB	MIXING BOX	WC	WALL CAP
ERC	ENERGY RECOVERY COIL	MBH	THOUSAND BTU PER HOUR	WH	WALL HEATER
ER	EXHAUST REGISTER	MCA	MINIMUM CIRCUIT AMPS	W	WIDE
ERP	ELECTRIC RADIANT CEILING PANEL	MCC	MOTOR CONTROL CENTER	W/	WITH
ESP	EXTERNAL STATIC PRESSURE	MO	MASONRY OPENING	WMS	WIRE MESH SCREEN
EW	ELECTRIC WALL FIN	MOD	MOTOR OPERATED DAMPER	W/W ENCL	WALL TO WALL ENCLOSURE
				WSHP	WATER SOURCE HEAT PUMP

DUCTWORK SYMBOLS

	DEMOLITION OF DUCTWORK/EQUIPMENT
	EXISTING DUCTWORK/EQUIPMENT TO REMAIN
	NEW DUCTWORK/EQUIPMENT
	SUPPLY DUCT (UP & DOWN)
	RETURN OR RELIEF (UP & DOWN)
	EXHAUST (UP & DOWN)
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	ROUND DUCT
	FLAT - OVAL DUCT
	SOUND ATTENUATOR
	INCLINED RISE, IN DIRECTION OF AIR FLOW
	INCLINED DROP, IN DIRECTION OF AIR FLOW
	FLEXIBLE CONNECTION
	FLEXIBLE CONNECTOR
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES)
	STANDARD RADIUS ELBOWS
	LOUVER
	DOOR GRILLE
	1" UNDERCUT DOOR

CONTROLS

	ROOM CONTROL: THERMOSTAT, HUMIDISTAT (MOUNTING HEIGHT 48" AFF)
	REMOTE BULB THERMOSTAT
	DUCT OR PIPE THERMOSTAT (NOTE: PROVIDE (12" MIN LENGTH IN DUCT WHEN SPACE PERMITS)
	DUCT THERMOSTAT WITH AVERAGING ELEMENT
	ROOM SENSOR: TEMPERATURE, HUMIDITY (MOUNTING HEIGHT 48" AFF)
	DUCT OR PIPE TEMP. SENSOR (12" MIN LENGTH IN DUCT WHEN SPACE PERMITS)
	DUCT HUMIDITY SENSOR (12" MIN LENGTH IN DUCT WHEN SPACE PERMITS)
	DUCT DEWPOINT SENSOR (12" MIN LENGTH IN DUCT WHEN SPACE PERMITS)
	DUCT STATIC PRESSURE SENSOR (12" MIN LENGTH IN DUCT WHEN SPACE PERMITS)
	DUCT TEMP SENSOR WITH AVERAGING ELEMENT
	GUARD ON THERMOSTAT/SENSOR (MOUNTING HEIGHT 48" AFF)
	DUCT SMOKE DETECTOR
	FLOW SWITCH
	INDICATOR LIGHT
	OVERRIDE SWITCH
	CO2 SENSOR/ROOM SENSOR TEMPERATURE, HUMIDITY, MOUNTING HEIGHT 48" AFF.

GENERAL NOTES

- MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, FEES AND PERMITS FOR A COMPLETE INSTALLATION. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND STANDARDS.
- ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION ARE NOT SHOWN ON THE DRAWINGS. REFER TO EQUIPMENT INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS, INCLUDING REQUIRED CONNECTION LOCATIONS, TYPES, & SIZES.
- UNLESS SPECIFICALLY DIMENSIONED, THE WORK SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY TO SHOW GENERAL ARRANGEMENTS. THE DRAWINGS ARE NOT TO BE SCALED. PIPE AND DUCT ROUTING AND EQUIPMENT CONNECTION LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. FIELD VERIFY CLEARANCES, DIMENSIONS, MATERIALS, AND EQUIPMENT REQUIREMENTS PRIOR TO CONSTRUCTION. RELOCATE CONDUITS, PIPING HANGERS, ETC. AS REQUIRED.
- IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PERFORM ALL WORK NECESSARY TO PREPARE STRUCTURES FOR THE INSTALLATION OF MECHANICAL SYSTEMS. ALL HOLES, OPENINGS, AND DAMAGED MATERIALS CREATED DURING CONSTRUCTION SHALL BE PATCHED AND FINISHED.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, FINISHING, AND PENETRATIONS REQUIRED BY THE INSTALLATIONS. ALL PENETRATIONS SHALL BE PATCHED AND SEALED. CUTTING OF BUILDING CONSTRUCTION MATERIALS SHALL CONFORM TO THE CHARACTERISTICS OF THE PARTICULAR MATERIAL INVOLVED AND SHALL NOT CREATE ANY STRUCTURAL WEAKNESS OR UNSIGHTLY APPEARANCE. ALL CUTTING SHALL MEET THE APPROVAL OF THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE. COORDINATE WITH THIS PARTY BEFORE COMMENCING.
- WHENEVER CONNECTIONS TO EXISTING FACILITIES ARE REQUIRED, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND SCHEDULE THE WORK TO MINIMIZE INTERRUPTION OF SERVICE AND AVOID INTERFERENCE WITH NORMAL FUNCTION OF THE BUILDING AND/OR SURROUNDING WORK AREA. RELOCATED ITEMS SHALL BE INSTALLED IN COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS.
- ALL WORK, EQUIPMENT AND MATERIALS SHALL BE PROTECTED AT ALL TIMES. ALL DUCT AND PIPE OPENINGS SHALL BE PROPERLY CAPPED OR PLUGGED DURING INSTALLATION.
- WHERE REQUIRED FOR CLEARANCE, TO AVOID INTERFERENCE OR EQUIPMENT CONNECTIONS, THE MECHANICAL CONTRACTOR SHALL OFFSET PIPES, DUCTS OR CONDUITS NECESSARY SPECIAL FITTINGS OR ADAPTERS SHALL BE PROVIDED TO MAINTAIN GOOD FLOW CHARACTERISTICS. PROPERLY DRAIN AND DRIP WHERE NECESSARY.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF HIS OWN PEOPLE. COMPLY WITH ALL OWNER'S SITE SAFETY CONDITIONS.
- MECHANICAL CONTRACTOR SHALL MOUNT ALL THERMOSTATS AND ADJUSTABLE SENSORS IN FINISHED OCCUPIED ROOMS AT ADA HEIGHT OF 48 INCHES.
- ALL VALVES SHALL HAVE EXTENDED STEMS TO PLACE THE HANDLE OUTSIDE OF PIPE INSULATION.

PIPING SYMBOLS

HEATING

	HPS	HIGH PRESSURE STEAM (16 PSIG & ABOVE)
	HPC	HIGH PRESSURE STEAM CONDENSATE RETURN
	LPS	LOW PRESSURE STEAM (15 PSIG & BELOW)
	LRC	LOW PRESSURE STEAM CONDENSATE RETURN
	VR	VACUUM STEAM CONDENSATE RETURN
	PD	CONDENSATE PUMP DISCHARGE
	BF	FEED WATER PUMP DISCHARGE
	BO	BLOW OFF/BLOW DOWN
	HWS	HOT WATER SUPPLY
	HWR	HOT WATER RETURN
	HTWS	HIGH TEMP. HOT WATER SUPPLY
	HTWR	HIGH TEMP. HOT WATER RETURN
	GHS	HOT GLYCOL-WATER HEATING SUPPLY
	GHR	HOT GLYCOL-WATER HEATING RETURN
	V	VENT LINE, ATMOSPHERIC
	GTWS	GEO THERMAL WATER SUPPLY
	GTWR	GEO THERMAL WATER RETURN

AIR CONDITIONING

	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	RHG	REFRIGERANT HOT GAS
	C	CONDENSER WATER SUPPLY
	CR	CONDENSER WATER RETURN
	CWS	CHILLED WATER SUPPLY
	CWR	CHILLED WATER RETURN
	GC	CHILLED GLYCOL-WATER SUPPLY
	GCR	CHILLED GLYCOL-WATER RETURN
	M	MAKE-UP WATER
	D	DRAIN LINE

VALVES

	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CONTROL VALVE
	BALANCING VALVE
	TRIPLE DUTY VALVE
	TWO WAY CONTROL VALVE (ELECTRONIC ACTUATOR)
	THREE WAY CONTROL VALVE (ELECTRONIC ACTUATOR)
	TWO WAY CONTROL VALVE (PNEUMATIC ACTUATOR)
	THREE WAY CONTROL VALVE (PNEUMATIC ACTUATOR)
	PRESSURE REDUCING VALVE
	SAFETY RELIEF VALVE

COMBINATION AIR CONDITIONING AND HEATING

	DTS	DUAL TEMPERATURE (CHILLED WATER/HOT WATER HEATING) SUPPLY
	DTR	DUAL TEMPERATURE (CHILLED WATER/HOT WATER HEATING) RETURN
	HPWS	HEAT PUMP WATER SUPPLY
	HPWR	HEAT PUMP WATER RETURN

GENERAL

	D	DIRECTION OF PIPE PITCH (DOWN)
	U	DIRECTION OF PIPE PITCH (UP)
		DIRECTION OF FLOW
		ANHOR
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		TOP CONNECTION
		BOTTOM CONNECTION
		CAP OR PLUG
		BLANK FLANGE
		ELBOW DOWN
		CLEANOUT
		UNION OR FLANGE
		ELBOW UP
		POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
		POINT BETWEEN EXISTING REMOVAL WORK AND EXISTING TO REMAIN
		INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES (SEE STD. DETAIL)
		FLLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES (SEE STD. DETAIL)
		THERMOSTATIC TRAP
		THERMODYNAMIC TRAP
		STRAINER
		THERMOMETER
		PRESSURE GAUGE WITH GAUGE COCK
		WATER FLOW MEASURING DEVICE
		EXISTING WORK TO BE REMOVED
		AIR VENT
		MOMENT GUIDE
		FLEXIBLE COUPLING
		EXPANSION COMPENSATOR WITH GUIDES
		EXPANSION JOINT WITH GUIDES
		HOSE END CONNECTION
		DOOR LOUVERED (INDICATES SQ FT OF AN AREA)
		FIN TUBE ENCLOSURE WITH END CAPS
		PUMP
		UNIT HEATER
		AIR SEPERATOR

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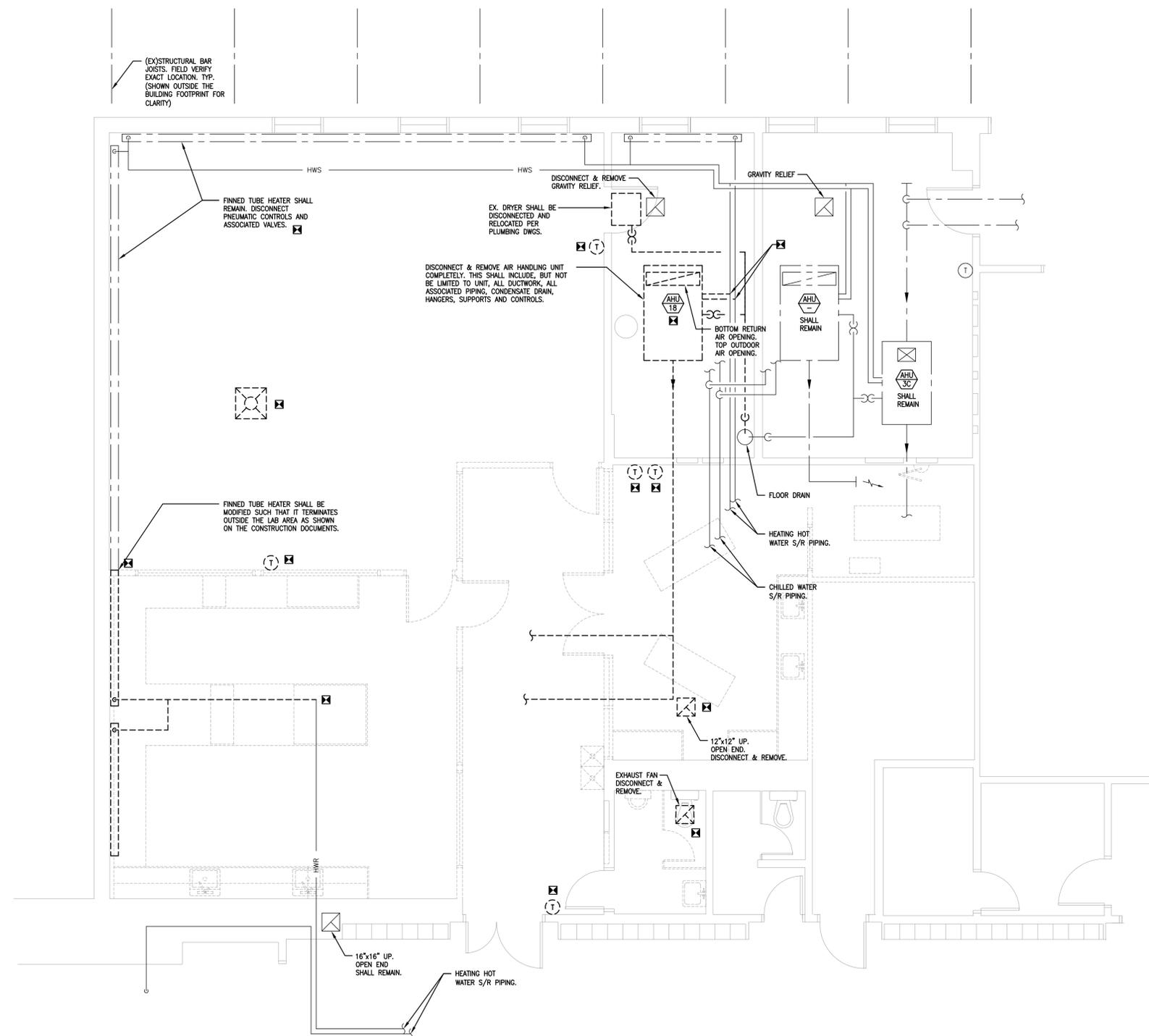
DELAWARE ARCHITECTS, LLC
 550 S. DUPONT BLVD, SUITE E - MILFORD, DE 19963
 Office - 302-491-6047 Fax - 302-491-6048

NEW CONSTRUCTION FOR:
POLYTECH DENTAL LAB
 TOWN OR COUNTY, STATE

POLYTECH DENTAL LAB

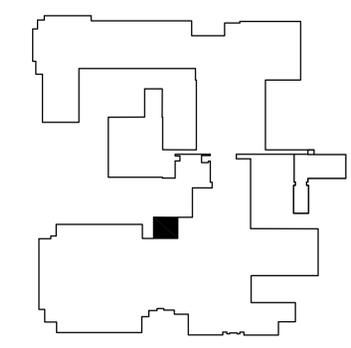
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DEMOLITION NOTES

1. PROVIDE WEATHER TIGHT, INSULATED CAPS FOR ALL ROOF PENETRATIONS. COORDINATE WITH APPROVED ROOFING CONTRACTOR (FIRESTONE SYSTEM INSTALLED BY QUALITY EXTERIORS).
2. CAP SYSTEMS SERVING EQUIPMENT SHOWN AS DEMOLISHED. DO NOT IMPACT OTHER EQUIPMENT IN NEIGHBORING SPACE SERVED BY SAME SYSTEMS.
3. DISCONNECT AND CAP ALL PNEUMATIC CONTROLS IN PROJECT AREA.



1 PARTIAL FLOOR PLAN - DEMOLITION
 1/4" = 1'-0"
 0 2' 4' 8'

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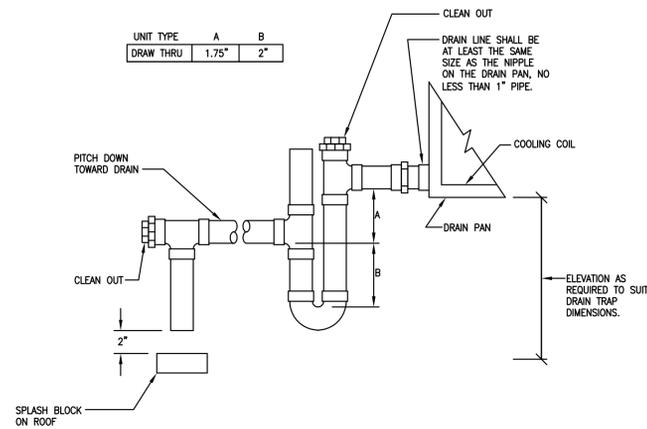
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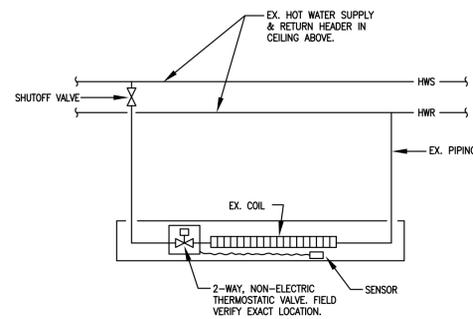
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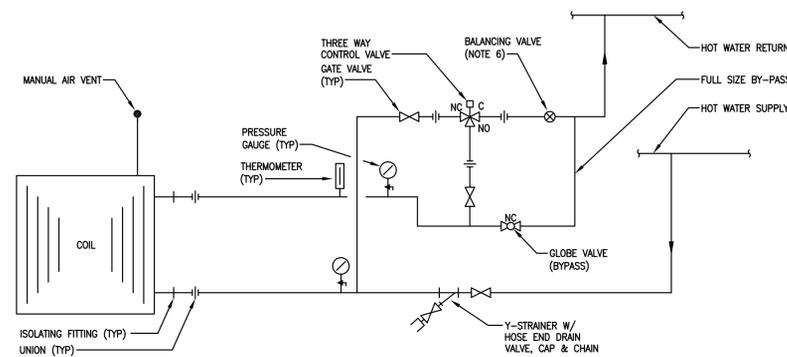
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CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE



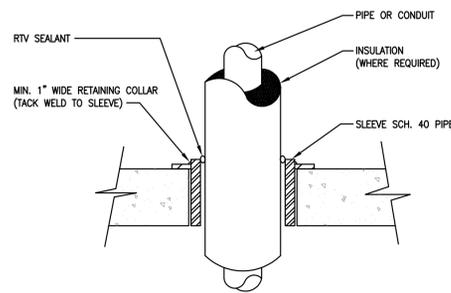
FIN-RADIATION PIPING DETAIL
NOT TO SCALE



NOTES:

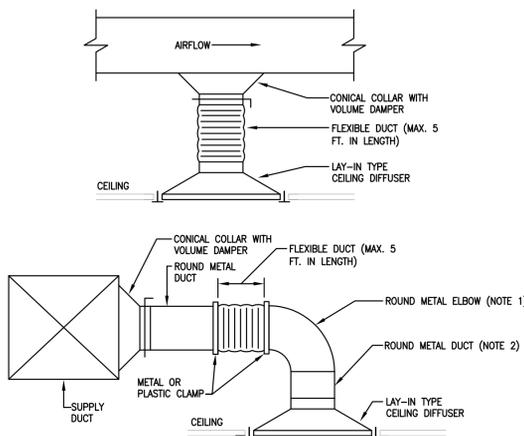
- UNIONS SHALL BE ARRANGED SO PIPING WILL NOT INTERFERE WITH COIL REMOVAL.
- INSTALL FOR COUNTER FLOW OF AIR AND WATER WHEN COILS EXCEED ONE ROW DEPTH.
- THIS APPLICATION SHALL BE USED FOR TYPICAL AIR HANDLING UNITS
- VALVE FAILS "ON" IN HEATING
- N.O. = NORMALLY OPEN
N.C. = NORMALLY CLOSED
C = COMMON
- MAINTAIN FULL LINE SIZE FOR SUPPLY AND RETURN PIPING AND ACCESSORIES FOR THE COIL, AS SHOWN ON THE FLOOR PLANS, REGARDLESS OF COIL HEADER AND CONTROL VALVE CONNECTION SIZES.
- ARRANGE PIPING SO THAT ALL COMPONENTS ARE CLEAR OF UNIT ACCESS PANELS AND SERVICE ACCESS TO AIR FILTERS AND FAN MOTOR. ALL CLEARANCES SHALL BE SUFFICIENT TO ALLOW FOR REMOVAL OF ALL FILTERS, FAN ASSEMBLIES AND COILS WITHOUT REMOVAL OF EXTERNAL PIPING IN THE VICINITY OF THE UNIT.

HOT WATER COIL W/3-WAY CONTROL VALVE PIPING DETAIL
NOT TO SCALE



NOTE: PROVIDE SLEEVES AT ALL WALL AND FLOOR PENETRATIONS. EXTEND SLEEVE 1" A.F.F. AT FLOOR PENETRATIONS.

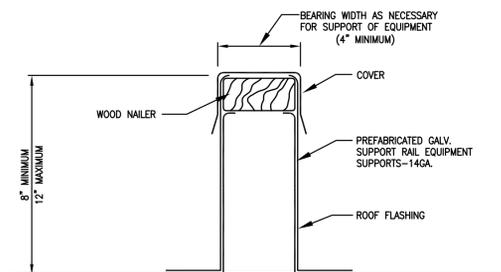
SLEEVE DETAIL
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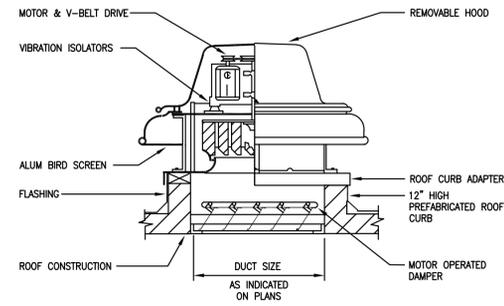
NOTES:

- OPTION: PROVIDE FLEXIBLE DUCT TO DIFFUSER COLLAR AS LONG AS INCLUDED ANGLE OF BEND DOES NOT EXCEED 89 DEGREES. MAX. LENGTH OF FLEX REMAINS AS NOTED.
- LENGTH AS REQUIRED FOR SMOOTH TRANSITION BACK TO MAIN DUCT.

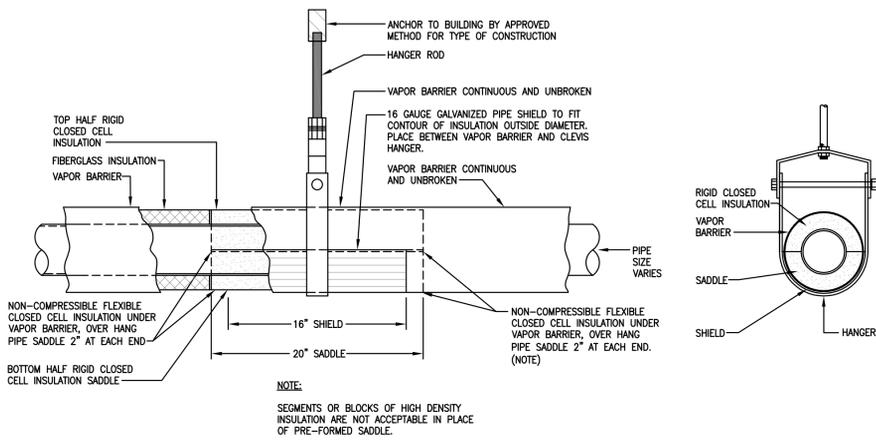
DIFFUSER CONNECTION DETAIL
NOT TO SCALE



ROOF DUCTWORK SUPPORT RAIL DETAIL
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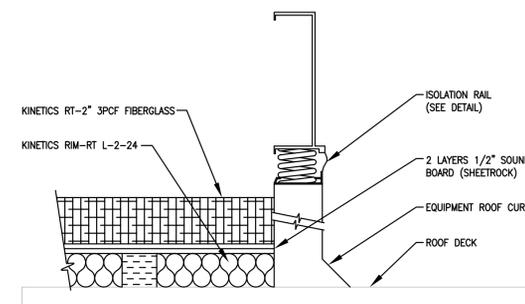


ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



PIPE HANGER DETAIL
NOT TO SCALE

COORDINATE ALL ROOFING WORK WITH APPROVED ROOFING CONTRACTOR. CURRENT SYSTEM IS FIRESTONE SYSTEM INSTALLED BY QUALITY EXTERIORS.



NOTES:

- LOCATE PADS IN RIM MATERIAL TO ADEQUATELY SUPPORT SHEETROCK.
- STAGGER JOINTS ON SHEETROCK.
- FIT SHEETROCK CLOSELY TO PERIMETER OF CURB.
- PROVIDE ACOUSTIC TREATMENT PACKAGE WITHIN ROOF CURB PER MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL ON ROOF DECK TO COVER THE ENTIRE AREA WITHIN CURB. INSTALL ISOLATION BOARD AROUND PERIMETER OF CURB AND ALL PENETRATIONS WITH ALL JOINTS SEALED. PACKAGE SHALL INCLUDE 2" THICK RESILIENT DECOUPLER, A 3 PSF HIGH MASS BARRIER AND AN ABSORBER WITH MINIMUM SOUND COEFFICIENT OF 0.26 AT 125 Hz. PROVIDE MINIMUM AIR SPACE OF 10" BETWEEN BOTTOM OF ROOFTOP UNIT PAN AND TOP OF ACOUSTIC PACKAGE. RESILIENT DECOUPLER SHALL BE ROLLOUT ISOLATION MEDIA WITH LOW DENSITY ABSORPTION BLANKET AND MOLDED, PRECOMPRESSED, HIGH DENSITY FIBERGLASS PADS DESIGNED FOR MAXIMUM TRANSMISSION LOSS. PACKAGE SHALL BE EQUAL TO KINETICS NOISE CONTROL, TYPE RT-454.
- PROVIDE ROOF OPENING LARGE ENOUGH TO ACCOMMODATE DUCT CONNECTION AT UNIT.
- PROVIDE DUCT LAGGING, EQUAL TO KINETICS TYPE KNM-100-ALQ-2, ON SUPPLY AND RETURN AIR DUCTS FROM UNDERSIDE OF ROOF TO FIRST BRANCH CONNECTION. PROVIDE NEAT FIT AT JOINTS AND CORNERS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

ROOFTOP UNIT ACOUSTIC PACKAGE DETAIL
NOT TO SCALE

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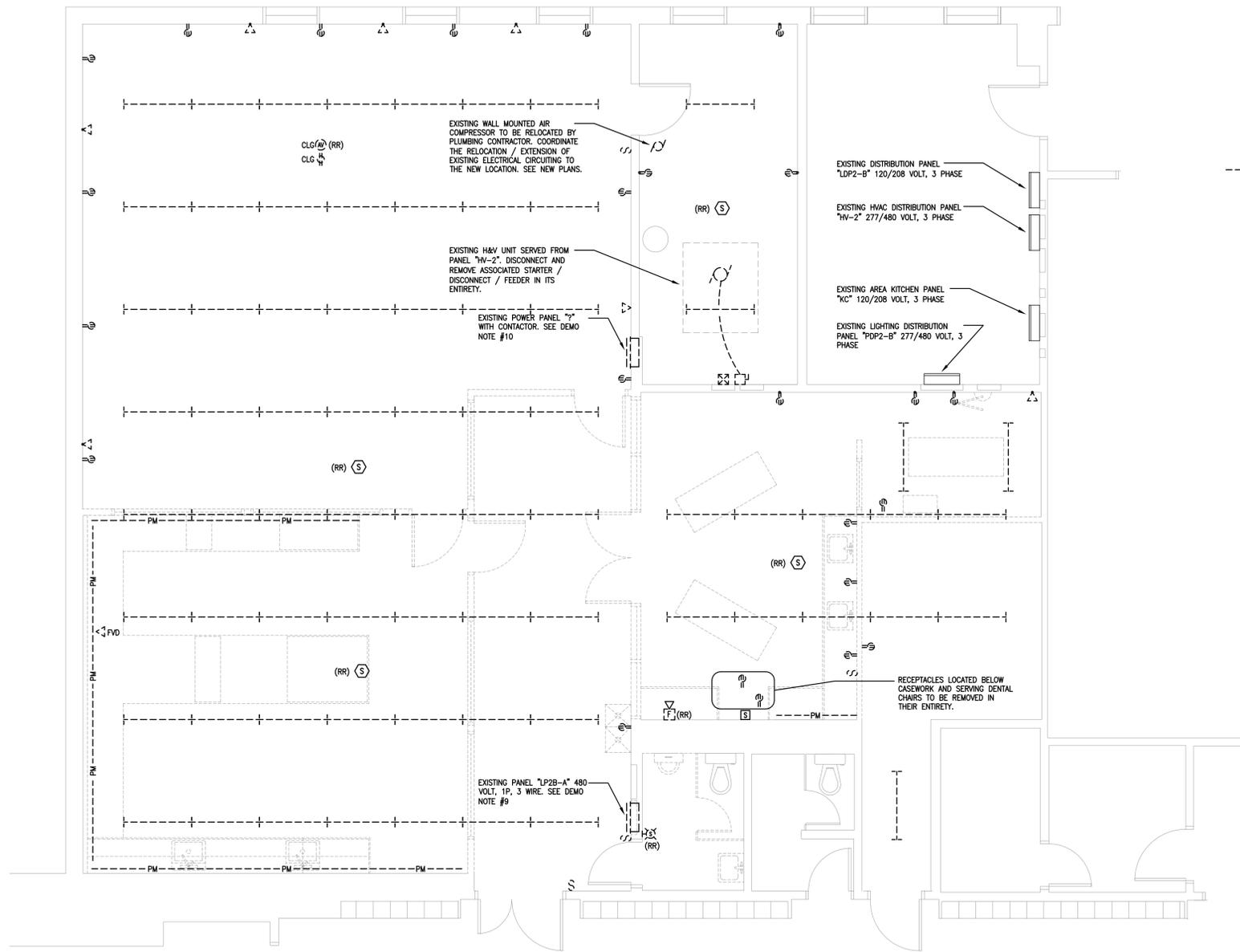
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1 PARTIAL FLOOR PLAN - DEMOLITION
 1/4" = 1'-0"

DEMOLITION LEGEND

- 4' FLUORESCENT INDUSTRIAL
- (S) FIRE ALARM SMOKE DETECTOR
- (F) FIRE ALARM SPEAKER STROBE
- S LIGHT SWITCH CONTROL
- ⊕ DUPLEX RECEPTACLE
- ▷ TELE/DATA OUTLET
- PM --- PLUGMOLD POWER STRIP
- (S) CLASSROOM PAGING SPEAKER
- (C) CLASSROOM CLOCK
- (J) JUNCTION BOX
- CLG (RR) CEILING MOUNTED A/V OUTLET
- CLG CEILING MOUNTED RECEPTACLE
- (TV) WALL MOUNTED TV OUTLET
- MOTOR
- MOTOR STARTER
- MOTOR DISCONNECT
- ELECTRIC POWER PANEL
- (RR) INDICATES THAT THE EXISTING DEVICE SHALL BE REMOVED AND RELOCATED TO LOCATION INDICATED ON THE NEW PLAN INCLUDING THE EXTENSION OF CIRCUITING WHERE NECESSARY.

DEMOLITION NOTES

1. THE DEMOLITION PLAN INDICATES THE TOTAL PROJECT AREA REQUIRING DEMOLITION OF ALL ELECTRICAL SERVICES. UNLESS OTHERWISE INDICATED IN THE FOLLOWING NOTES, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE ALL ELECTRICAL SERVICES BACK TO PREVIOUS TERMINATION POINTS. THIS PLAN AND THE FOLLOWING NOTES REPRESENT A GUIDE AND INDICATE MAJOR EXISTING ELECTRICAL EQUIPMENT AND DEVICES TO BE REMOVED. THE SUBMISSION OF AN ELECTRICAL BID SHALL REFLECT THAT THE E.C. UNDERSTANDS THE EXTENT OF THE DEMOLITION WORK.
2. WHERE SERVICES FROM OTHER AREAS RUN THRU THIS AREA OF CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE SERVICES AND KEEPING THESE SERVICES CLEAR OF THE NEW CONSTRUCTION.
3. THE SCHOOL HAS AN EXISTING LIFE SAFETY SYSTEM THROUGHOUT THE FACILITY. DURING THE DEMOLITION PHASE, THIS CONTRACTOR WILL UTILIZE THE MANUFACTURER'S TECHNICIANS AND COORDINATE WITH THE HOSPITAL FIRE AND SAFETY DEPARTMENT TO ENSURE THAT THE SYSTEM INTEGRITY IS MAINTAINED. THIS SHALL INCLUDE MAINTAINING FIRE ALARM COVERAGE / DETECTION DURING CONSTRUCTION. THE EXISTING SYSTEM IS AS MANUFACTURED BY NOTIFER. THE SYSTEM IS REPRESENTED BY KRATOS. CONTACT IS DENNIS GERBER, 302-882-7950 EXT. 104. FIRE ALARM DEVICES REQUIRED TO BE DISCONNECTED FROM THE BASE SHALL BE RE-CERTIFIED UPON REINSTALLATION.
4. THE ELECTRICAL CONTRACTOR TO ALLOW FOR THE DISCONNECTION AND REMOVAL OF ALL TELE / DATA / COAX (T.V.) SERVICES SERVING THIS AREA. THEY SHALL BE REMOVED BACK TO THEIR SOURCE CLOSET AND REMOVED FROM THE ASSOCIATED PUNCH DOWN / BOX OR TRAYS ACCORDINGLY. THE E.C. SHALL KEEP A RECORD LIST OF ALL WIRES REMOVED.
5. ALL CONDUIT UNDER FLOOR OR CONCEALED IN WALLS NOT BEING REUSED SHALL BE GROUND DOWN 3/8" BELOW SURFACE AND PATCHED / SEALED TO ORIGINAL CONDITION USING SAME MATERIALS AS ORIGINAL CONSTRUCTION.
6. ALL EXISTING FLUSH MOUNTED RECEPTACLE AND SWITCH BOX LOCATIONS NOT BEING REUSED AS PART OF THE NEW WORK SHALL BE REMOVED AND PATCHED. THIS MAY REQUIRE A COMBINATION OF BLOCK WORK AS WELL AS DRYWALL WORK. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT REQUIREMENTS IF APPLICABLE.
7. DUE TO THE POTENTIAL AGE OF SOME OF THE LIGHTING FIXTURES, DEMOLITION OF THE FLUORESCENT LIGHTING FIXTURES BALLASTS, MFG. PRIOR TO 1980 WILL REQUIRE THAT THE E.C. DISCONNECT AND REMOVE THE BALLASTS (P.C.B CONTAMINATED) BEFORE DISCARDING THE FIXTURES. THE BALLASTS SHALL BE LOADED INTO 55 GALLON DRUMS AND DISPOSED OF AS REQUIRED BY THE E.P.A. AND FEDERAL GOVERNMENT. E.C. SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REMOVAL FROM THE PROJECT SITE.
8. ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH MECHANICAL AND PLUMBING SYSTEMS TO BE DEMOLISHED SHALL BE DISCONNECTED AND REMOVED COMPLETE, UNLESS OTHERWISE INDICATED. REFER TO MECHANICAL AND PLUMBING PLANS FOR SYSTEMS BEING DEMOLISHED.
9. EXISTING PANEL "LP2B-A" 277/480 VOLT, 3P, 4 WIRE, SERVED FROM EXISTING PANEL "LDP2-B", TO BE REMOVED IN ITS ENTIRETY. THE UNDERGROUND FEEDER SHALL BE REMOVED IN ITS ENTIRETY BACK TO ASSOCIATED DISTRIBUTION BOARD "LDP2-B". CUT CONDUIT DOWN TO BELOW FLOOR SLAB AND PATCH.
10. EXISTING PANEL "S" TO BE REMOVED IN ITS ENTIRETY. THE UNDERGROUND FEEDER SHALL BE REMOVED IN ITS ENTIRETY BACK TO ASSOCIATED DISTRIBUTION BOARD. CUT CONDUIT DOWN TO BELOW FLOOR SLAB AND PATCH. OWN PATCHING OF WALL OPENING AS PART OF BID WITH FINISH TO MATCH EXISTING CONDITION.

DATE	REVISION	NO.

DELAWARE ARCHITECTS, LLC
 550 S. DUPONT BLVD, SUITE E - MILFORD, DE 19963
 Office - 302-491-6047 Fax - 302-491-6048

NEW CONSTRUCTION FOR:
POLYTECH DENTAL LAB
 TOWN OR COUNTY, STATE

POLYTECH DENTAL LAB

SCALE	: 1/4"=1'-0"
DESIGN BY	: WJS
DRAWN BY	: WJS
CHECKED BY	: SAJ
DALLC FILE	: --
DATE	: 07/06/2012

E1.1

FIXTURE SCHEDULE

NOTES:

1. EQUIVALENT MANUFACTURERS: FIXTURES BY MANUFACTURERS LISTED AS EQUIVALENTS SHALL BE OF THE SAME TYPE, PERFORMANCE AND QUALITY OF THOSE SPECIFIED. EQUIVALENT MANUFACTURERS MUST MEET ALL CRITERIA OF THE BASE FIXTURE SPECIFIED. ANY DEVIATIONS WHICH DO NOT REFLECT THE BASE FIXTURE MAY RESULT IN A REJECTED SHOP DRAWING (DURING SUBMITTAL PERIOD). LISTED EQUIVALENTS DO NOT AUTOMATICALLY MEAN APPROVED. NO SUBSTITUTES ARE TO BE MADE WITHOUT PRIOR APPROVAL. REQUEST FOR SUBSTITUTIONS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SPECIFICATIONS.

TYPE: *A*
MFR.: COLUMBIA
CAT. #: ZPT 24-2-54-G-FCBO-EPU
LAMPS: (2) 54W T8HO, 3500K
MOUNTING: RECESSED, CEILING
EQUIV. MFRS.: APPROVED EQUAL PRIOR TO BIDDING
REMARKS: 2' X 4' ZERO PLENUM TROFFER, DIE-FORMED COLD ROLLED STEEL HOUSING, FLUSHED CURVED BAFFLE, BAKED WHITE POLYESTER FINISH, NEC COMPLIANT BALLAST DISCONNECT, 277 VOLT ELECTRONIC BALLAST. DUE TO HEIGHT RESTRICTIONS THE FIXTURE SHALL NOT EXCEED 2 1/2" IN HEIGHT ABOVE CEILING GRID RAIL.

TYPE: *B*
MFR.: COLUMBIA
CAT. #: CSR4-232-ST-EU
LAMPS: (2) 32W T8, 3500K
MOUNTING: SURFACE, CEILING
EQUIV. MFRS.: METALUX
REMARKS: 1'-0" X 4'-0" INDUSTRIAL STRIP FIXTURE DIE FORMED SOLID TOP REFLECTOR, HOUSING, UNIVERSAL VOLTAGE ELECTRONIC BALLAST.

TYPE: *C* - NOT USED

TYPE: *D*
MFR.: METALUX
CAT. #: SFCL-1081375-EB120-RS
LAMPS: (1) 8 AND (1) 13 WATT T-5 LAMPS, 35K
MOUNTING: SURFACE
EQUIV. MFRS.: SIMKAR
REMARKS: 33" LONG X 1-1/16" HIGH UNDERCABINET LIGHT WITH SOLID METAL FRONT AND INTEGRAL ON/OFF ROCKER SWITCH, 120V ELECTRONIC BALLAST.

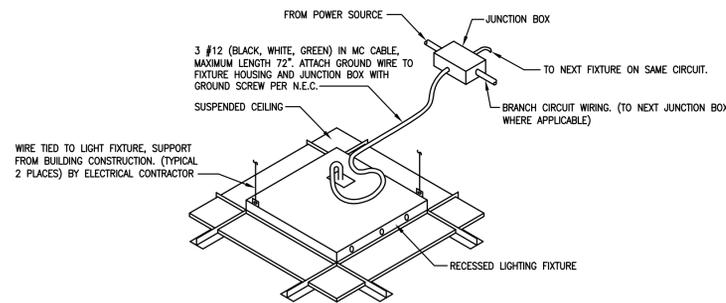
TYPE: *E*
MFR.: DUALITE
CAT. #: SEWLSRWE-HTR-4X
LAMP: FURNISHED W/FIXTURE
MOUNTING: UNIVERSAL MOUNTED
EQUIV. MFRS.: PRESCOLITE, LITHONIA
REMARKS: SINGLE FACE EXIT SIGN WITH EVEN ILLUMINATED LEADS. GASKETED DIE-CAST ALUMINUM HOUSING, RED LETTERS, WHITE HOUSING, DIE-CAST ALUMINUM CANOPY, DIRECTIONAL ARROWS, HINGED FACE PLATE, POLYCARBONATE VANGEL SHIELD, INTERNAL HEATER, NEMA 4X RATING, NICKLE-CADMIUM BATTERY WITH FULL AUTO CHARGING, 277V.

TYPE: *F*
MFR.: ALKCO
CAT. #: R-2058-2
LAMPS: (1) 200 WATT A23, (1) 15 WATT A-15
MOUNTING: SUSPENDED FROM CEILING
EQUIV. MFRS.: OR EQUAL
REMARKS: DARKROOM SAFELIGHT, GRID LAY-IN CEILING, 2 COMPARTMENTS, 1 FILTERED AND 1 GENERAL ILLUMINATION, 20 GAUGE COLD ROLLED STEEL, FILTERS SHALL BE PROVIDED WITH DIE-CUT GASKETING, TEMPERED PRISMATIC GLASS LENS, 120 VOLT OPERATION, PROVIDE FILTER OF COLOR AS SELECTED BY USER / OWNER.

TYPE: *G*
MFR.: DUAL LITE
CAT. #: SE-S-R-WN-SWS
LAMP: LED
MOUNTING: SURFACE UNIVERSAL END/CEILING/WALL
EQUIV. MFRS.: OR EQUAL
REMARKS: DIE-CAST ALUMINUM EXIT SIGN, UNIVERSAL END/CEILING/WALL MOUNTING, LED LAMPING, WHITE FINISH WITH BRUSHED FACE, CUSTOM WORDING, REFER TO PLANS.

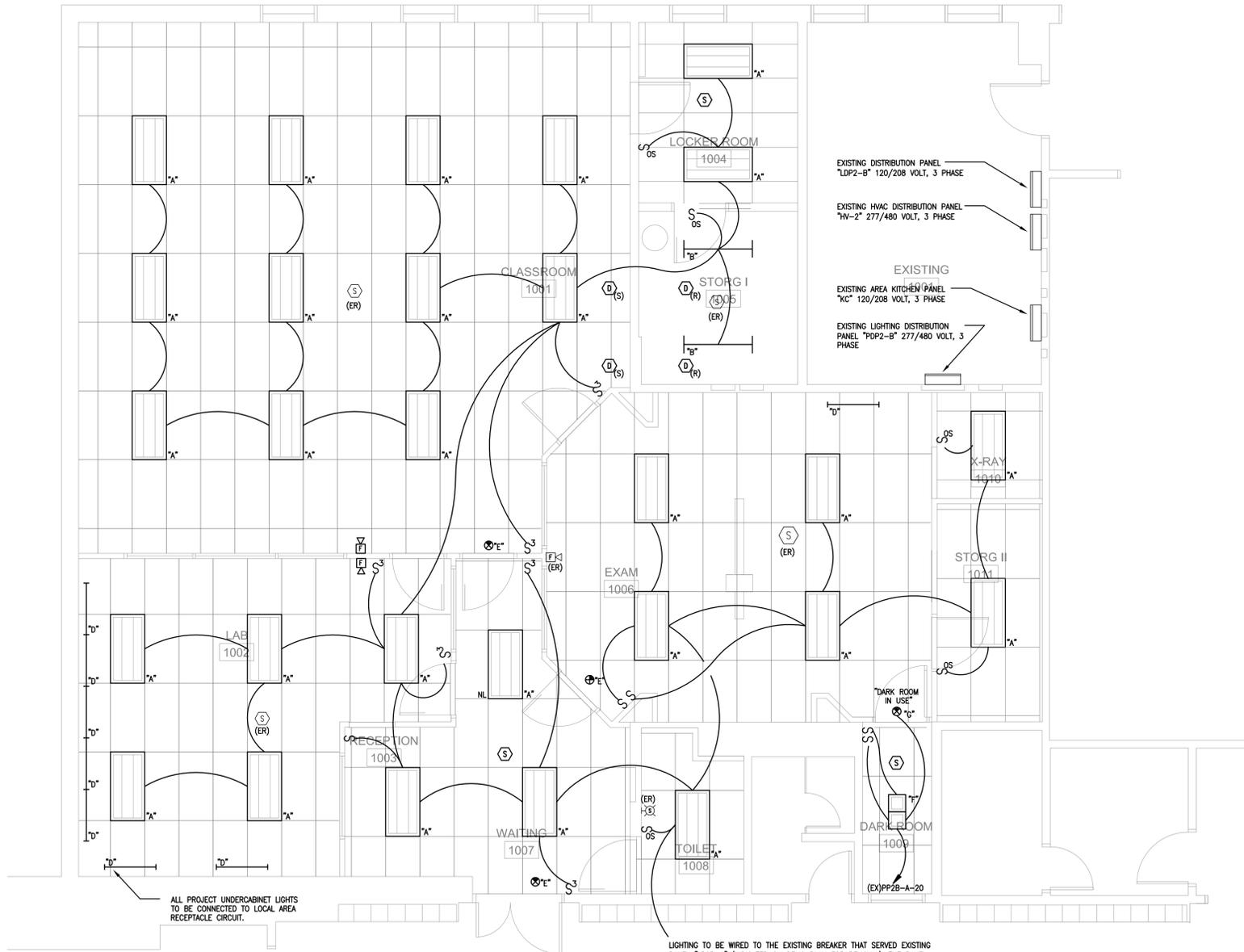
LIGHTING LEGEND

- 2 X 4 LAY-IN INDIRECT FLUORESCENT TROFFER
- UNDER CABINET LIGHT OR INDUSTRIAL FLUORESCENT
- SINGLE FACED EXIT SIGN, ARROWS INDICATE DIRECTION
- SINGLE POLE WALL SWITCH CONTROL, 48" A.F.F.
- 3-WAY WALL SWITCH CONTROL, 48" A.F.F.
- 4-WAY WALL SWITCH CONTROL, 48" A.F.F.
- WALL MOUNTED LINE VOLTAGE (ULTRASONIC / INFRARED) OCCUPANCY SENSOR AS MANUFACTURED BY WATT STOPPER, CAT. NO. DW-100 (VOYR) OR EQUAL. SET UP WITH A 5 MIN TIME DELAY FOR LIGHTING SHUT-OFF AFTER ROOM IS UN-OCCUPIED. INSTALL SENSOR WITH TAMPERPROOF SCREWS ON COVER PLATE FOR THEFT PREVENTION.
- FIRE ALARM COMBINATION SPEAKER AND STROBE, 80" A.F.F. TO CENTER OF STROBE LENS
- FIRE ALARM SMOKE DETECTOR
- FIRE ALARM DUCT DETECTOR, (S) SUPPLY SIDE, (R) RETURN SIDE
- FIRE ALARM STROBE, 80" A.F.F.
- E.C. ELECTRICAL CONTRACTOR
- NL INDICATES FIXTURE ON UNSWITCHED NITE LIGHT CIRCUIT. FIXTURE TO BE CONNECTED TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF SWITCH CONTROL.
- A.F.F. ABOVE FINISHED FLOOR
- (ER) INDICATES EXISTING DEVICE INSTALLED IN NEW LOCATION WITH ASSOCIATED CIRCUITING EXTENDED AS REQUIRED.



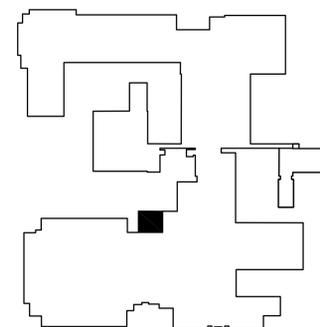
TYPICAL LAY-IN TROFFER DETAIL

NOT TO SCALE



1 PARTIAL FLOOR PLAN - LIGHTING

1/4" = 1'-0"



NO.	REVISION	DATE

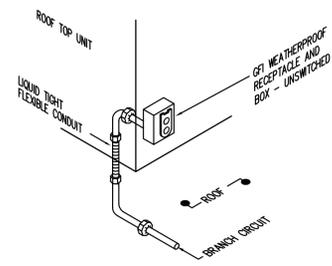
DELAWARE ARCHITECTS, LLC
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NEW CONSTRUCTION FOR:
POLYTECH DENTAL LAB
 TOWN OR COUNTY, STATE

POLYTECH DENTAL LAB

SCALE	: 1/4"=1'-0"
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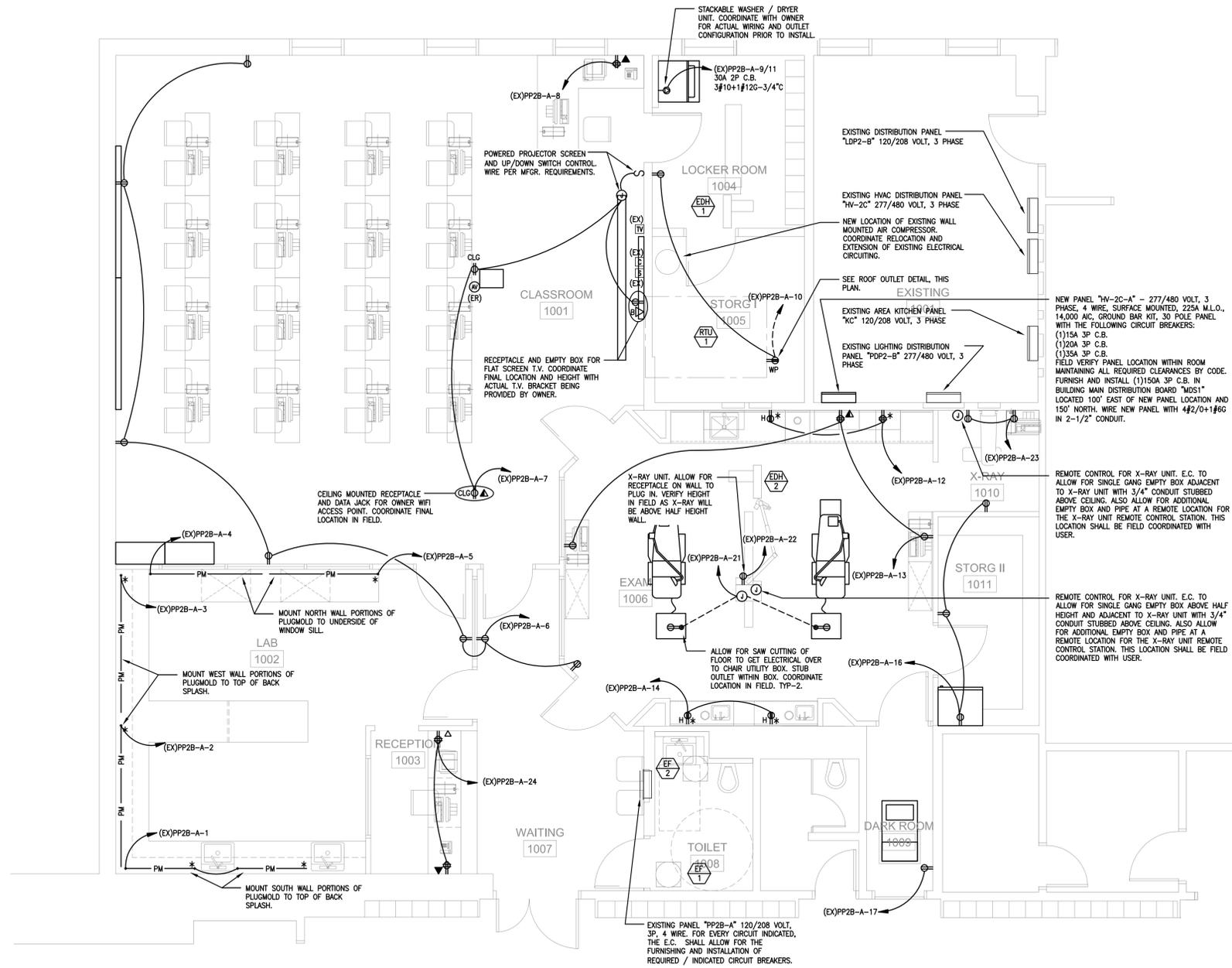
E1.2



DETAIL OF ROOF RECEPTACLE ON ROOF
NOT TO SCALE

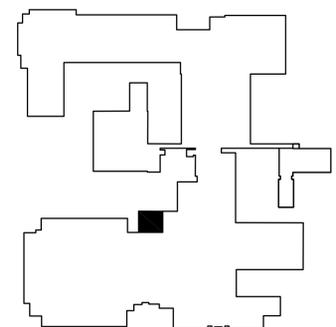
POWER LEGEND

- ⊕ DUPLEX RECEPTACLE, 18" ABOVE FISHER FLOOR UNLESS NOTED OTHERWISE
- ⊕⊕ DOUBLE DUPLEX RECEPTACLE, 18" ABOVE FISHER FLOOR UNLESS NOTED OTHERWISE
- ⊕⊕⊕ DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION, HEIGHT AS DIRECTED BY ARCHITECT
- CLG ⊕ CEILING DUPLEX MOUNTED IN CEILING TILE FACING DOWN
- (M) CEILING MOUNTED A/V OUTLET
- PM STEEL MULTI-OUTLET PLUGMOLD AS MFR. BY WIREMOLD, CAT. NUMBER WH208P06TRGFI, GFI / TAMPERPROOF SINGLE CIRCUIT WITH DEVICES MOUNTED 6" ON CENTERS, WHITE FINISH. MOUNT ABOVE COUNTERTOP AS DIRECTED BY ARCHITECT
- ▶ COMBINATION TELEPHONE AND DATA JACK 18" A.F.F. UNLESS OTHERWISE NOTED, SEE SPECIFICATIONS
- ▷ DATA JACK 18" A.F.F. UNLESS OTHERWISE NOTED, SEE SPECIFICATIONS
- ▶ WALL PHONE JACK 18" A.F.F. UNLESS OTHERWISE NOTED, SEE SPECIFICATIONS
- ⊠ EMPTY SINGLE GANG BOX FOR WIRING BY OTHERS
- [S] CLASSROOM PAGING SPEAKER
- [C] CLASSROOM CLOCK
- [J] JUNCTION BOX
- [TV] WALL MOUNTED TV OUTLET
- E.C. ELECTRICAL CONTRACTOR
- C.B. CIRCUIT BREAKER
- A.F.F. ABOVE FINISHED FLOOR
- (EX) INDICATES EXISTING TO REMAIN
- (ER) INDICATES EXISTING DEVICE IN NEW LOCATIONS WITH WIRING EXTENDED AS REQUIRED.



1 PARTIAL FLOOR PLAN - POWER
1/4" = 1'-0"
0 2' 4' 6'

MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS								
ITEM	DESCRIPTION	VOLTAGE	LOAD	CIRCUIT BREAKER	WIRING	CONNECTION	CIRCUIT	REMARKS
RTU-1	PACKAGED ROOF TOP UNIT	480V 3Φ	3HP	35A 3P	3#8+G IN 3/4" CONDUIT	FACTORY DISC. SWITCH	HV-2C-A-1	-
EDH-1	ELECTRIC DUCT HEATER	480V 3Φ	7KW	15A 3P	3#12+G IN 3/4" CONDUIT	30A 3P N.F. DISC. SWITCH	HV-2C-A-2	-
EDH-2	ELECTRIC DUCT HEATER	480V 3Φ	10KW	20A 3P	3#12+G IN 3/4" CONDUIT	30A 3P N.F. DISC. SWITCH	HV-2C-A-7	-
EF-1	ROOF TOP EXHAUST FAN	120V	FRAC HP	20A 1P	2#12+G IN 3/4" CONDUIT	MANUAL MOTOR STARTER	(EX)PP2B-A-19	-
EF-2	ROOF TOP EXHAUST FAN	120V	FRAC HP	20A 1P	2#12+G IN 3/4" CONDUIT	MANUAL MOTOR STARTER	(EX)PP2B-A-19	-



DATE	REVISION	NO.

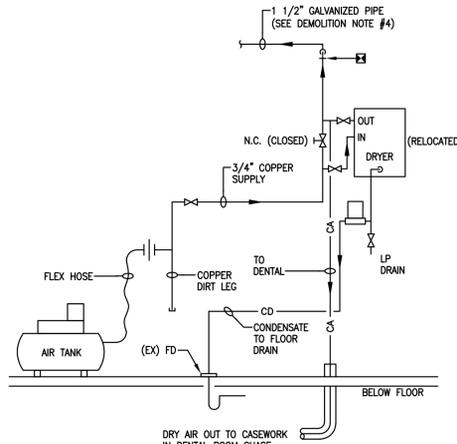
DELAWARE ARCHITECTS, LLC
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Office - 302-491-6047 Fax - 302-491-6048

NEW CONSTRUCTION FOR:
POLYTECH DENTAL LAB
TOWN OR COUNTY, STATE

POLYTECH DENTAL LAB

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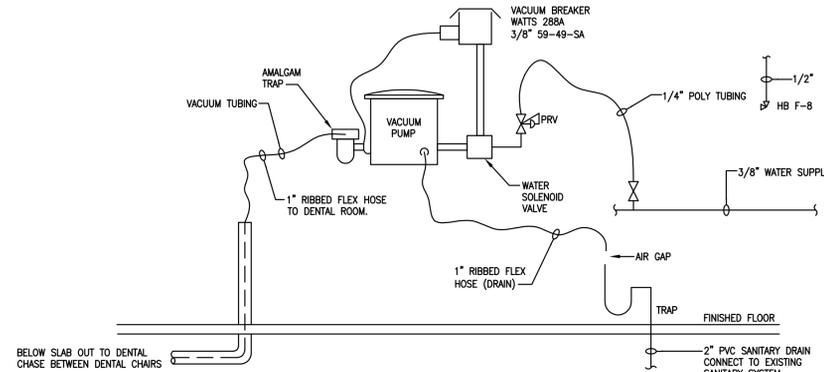
E1.3



DRY AIR OUT TO CASEWORK IN DENTAL ROOM CHASE BETWEEN DENTAL CHAIRS

AIR COMPRESSOR DATA
 MANUFACTURER: AIR TECHNIQUES
 MODEL: 115V, 10.2 AMP L-60
 S/N: 003726

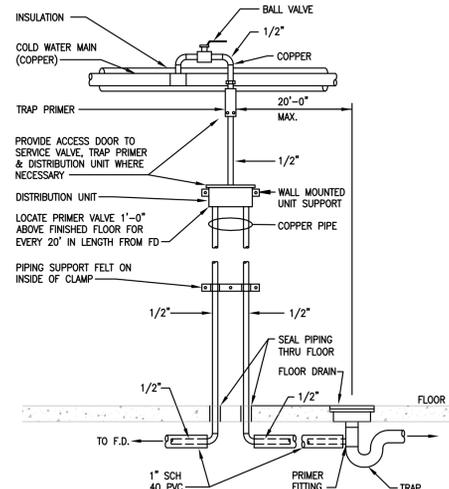
AIR COMPRESSOR DETAIL (TYPICAL SCHEMATIC)
 NOT TO SCALE



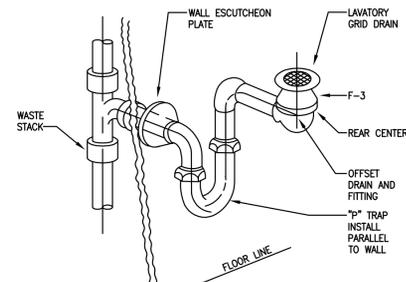
VACUUM PUMP DATA
 MANUFACTURER: AIR TECHNIQUES
 MODEL: 115/230V, 16.2/8.1 AMPS VACSTAR 20
 PART NO.: VS20
 S/N: 204583

VACUUM PUMP DETAIL
 NOT TO SCALE

PLUMBING FIXTURE / EQUIPMENT SCHEDULE											
ITEM	DESCRIPTION	CW	HW	SOIL WASTE	TRAP	SETTING HEIGHT	GAS	STORM	COMP. AIR	COND. WASTE	SPECIFICATIONS/REMARKS
F-1	WATER CLOSET "HANDICAP"	1"	-	4"	4"	-	-	-	-	-	AMERICAN STANDARD AFWALL FLOWISE 1.28 GPF, TOP SPUD, ELONGATED, WALL MOUNTED MODEL 2257 WITH SLOAN FLUSH VALVE MODEL ROYAL III, MANUAL FLUSH ON WIDE SIDE, CARRIER, OPEN FRONT SEAT, SIPHON JET TYPE BOWL.
F-2	LAVATORY "HANDICAP"	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	-	-	AMERICAN STANDARD REGALYN WALL MOUNT ENAMELED CAST IRON MODEL 4867.004, FRONT OVERFLOW, 17"x19", FAUCET METERING TYPE DELTA MODEL 86T1153, CAST BRASS, TWO HANDLE MIXING, VANDAL RESISTANT, SLOW CLOSE CARTRIDGE, LESS POP-UP, SHOCK ABSORBERS, WALL SUPPLIES, OFFSET DRAIN ASSEMBLY AND LAVATORY PROTECTION SHIELD.
F-3	EYE WASH	1/2"	1/2"	-	-	-	-	-	-	-	SPEAKMAN MODEL SE-927 COMBINATION EYE WASH AND DRENCH HOSE. COUNTERTOP MOUNTED NEXT TO THE SINK. PROVIDE VACUUM BREAKER, THERMOSTATIC MIXING VALVE, WATER SUPPLY, HOSES ETC. FOR COMPLETE INSTALLATION.
F-4	HAND SINK "HANDICAP"	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	-	-	ELKAY LR-1918 "JUSTERTONE" 18 GAUGE SELF RIM STAINLESS STEEL SINK WITH BASKET STRAINER & TAILPIECE. PROVIDE DELTA #25C3847, SINGLE HOLE CENTER MOUNT INSTALLATION, GROUP 3/SWIVEL VACUUM BREAKER SPOUT. PROVIDE OFFSET "P" TRAP WITH CO, WALL SUPPLIES AND STOP VALVES. PROVIDE DISHWASHER TAILPIECE AND FLEX HOSE.
F-5	SHOCK ABSORBER	SIZE VARIES	SIZE VARIES	-	-	-	-	-	-	-	PRECISION PLUMBING PRODUCTS, THREADED BARREL TYPE, COPPER TYPE L. PRESSURE RANGE 0-200 PSIG. PROVIDE ACCESS TO ALL UNITS.
F-6	APPLIANCE SUPPLY BOX	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	-	-	GUY GRAY MODEL T150 FOR 1 1/2" DRAIN. 14"Wx9 1/4"H. 1/2" WATER SUPPLY, HOSE BIBBS AND SLIP NUT TYPE DRAIN KIT.
F-7	SMALL SINK	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	-	-	ELKAY MODEL BLR1560. 15"x15"x6 1/8" DEEP DELTA FAUCET #25C3847 WITH UK36 STAINLESS STEEL BASKET STRAINER. PROVIDE ALL WATER STOPS, HOSES, TRAP.
F-8	HOSE BIBB	1/2"	1/2"	-	-	-	-	-	-	-	WOODFORD MODEL 26 BACKFLOW PROTECTED WALL FAUCET. CHROME, 1/2" WATER SUPPLY.
F-9	FLOOR DRAIN	-	-	3"	3"	-	-	-	-	-	JAY R. SMITH 2814 A SECTION WITH (4) B SECTIONS. DUCO CAST IRON FLANGED BODY OUTLET SECTION "A" WITH CAST IRON ANTI-SHIFT LOCKED GRATE, DOME BOTTOM STRAINER AND FLANGE END PLATES. PROVIDE 1/4" SQUARE HOLE (SPIKED HEAL OPENING) NICKEL BRONZE GRATE AND RIM. 5'-0" LENGTH SECTIONS.
F-10	TRAP PRIMER	1/2"	-	-	-	-	-	-	-	-	PRECISION PLUMBING PRODUCTS INC CPO-500 WITH DISTRIBUTION UNIT DU-3.

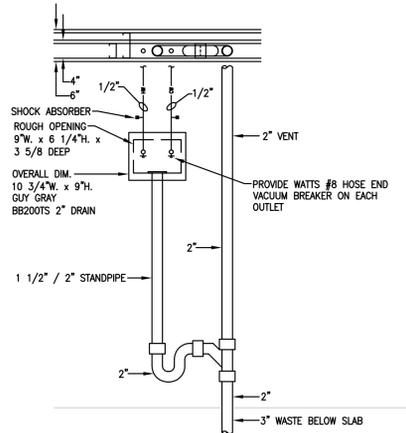


TRAP PRIMER DETAIL "C"
 NOT TO SCALE



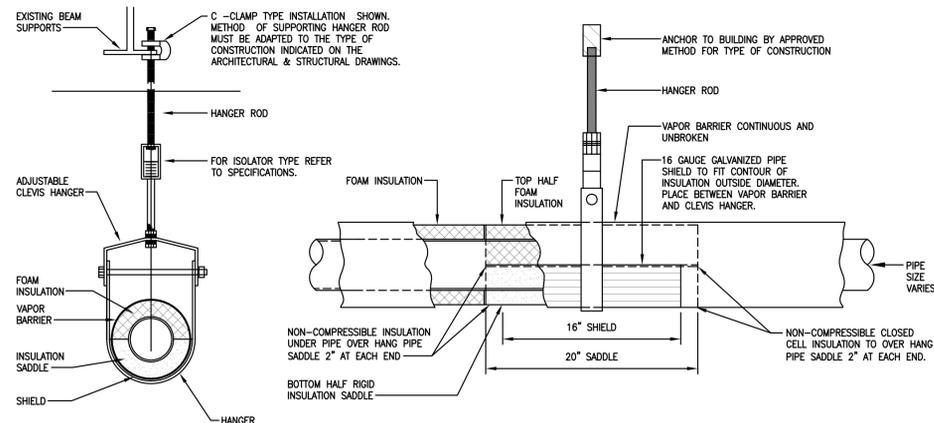
NOTE:
 1. WASTE PIPING, TRAP AND WATER SUPPLIES SHALL BE INSULATED WITH A PROTECTIVE WRAP AS PER TRUEBRO OR PRO-WRAP.
 2. NO INSULATION IS REQUIRED WHEN LAVATORY IS FURNISHED WITH A RIGID ENCLOSURE BELOW LAVATORY.

HANDICAP LAVATORY OFF-SET DRAIN DETAIL



CLOTHES WASHER BOX
 SCALE: 1 1/2" = 1'-0"

FOAM INSULATION



TYPICAL PIPE INSULATION ON HANGER DETAIL
 NOT TO SCALE

PLUMBING LEGEND ABBREVIATIONS	
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BF	BELOW FLOOR
BFP	BACKFLOW PREVENTER
BLV	BALANCING VALVE
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNITS
BV	BALL VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CKV	CHECK VALVE
CO	CLEANOUT
CW	DOMESTIC COLD WATER
DR	DRAIN
DN	DOWN
(EX)	EXISTING
EWC	ELECTRIC WATER COOLER
F-#	FIXTURE IDENTIFICATION NUMBER
FCD	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
HB	HOSE BIBB
HC	HANDICAPPED
HW	DOMESTIC HOT WATER
HWR	HOT WATER RETURN
LAV	LAVATORY
MR	MOP RECEPTOR
MS	MOP SINK
MV	MEDICAL VACUUM
(N)	NEW
NO	NORMALLY OPEN
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PG	PRESSURE GAUGE
SA	SHOCK ABSORBER
SAN	SANITARY
SD	STORM DRAIN
TP	TRAP PRIMER
T&PV	TEMPERATURE & PRESSURE RELIEF VALVE
TMV	THERMOSTATIC MIXING VALVE
URI	URINAL
US	UTILITY SINK
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNITS

NOTE: NOT ALL ABBREVIATIONS APPLY

PLUMBING LEGEND LINETYPES	
CA	COMPRESSED AIR
CW	COLD WATER
CD	CONDENSATE DRAIN
DR	DRAIN
G	GAS
GV	GAS VENT
HW	HOT WATER
MV	MEDICAL VACUUM
SAN	SANITARY
V	VENT
W	WATER SUPPLY

PLUMBING LEGEND SYMBOLS	
(Symbol)	AREA DRAIN/FLOOR DRAIN
(Symbol)	BALL VALVE
(Symbol)	BRANCH-BOTTOM CONNECTION
(Symbol)	BRANCH-TOP CONNECTION
(Symbol)	CAPPED PIPE/OUTLET
(Symbol)	CHECK VALVE
(Symbol)	CONNECT NEW TO EXISTING
(Symbol)	DIRECTION OF FLOW
(Symbol)	REMOVE TO THIS POINT
(Symbol)	FLOOR CLEANOUT
(Symbol)	GATE VALVE
(Symbol)	GLOBE VALVE
(Symbol)	HOSE BIBB
(Symbol)	PIPE RISING UP
(Symbol)	PIPE TURNING DOWN
(Symbol)	SHOCK ABSORBER
(Symbol)	SLOPE ARROW
(Symbol)	SLOPE @ 1/8"/FT
(Symbol)	SLOPE @ 1/4"/FT
(Symbol)	TRAP
(Symbol)	UNION
(Symbol)	VALVE IN DROP
(Symbol)	WALL CLEAN OUT
(Symbol)	WALL SLEEVE
(Symbol)	GAS RISER SYMBOL
(Symbol)	SANITARY/WASTE RISER SYMBOL
(Symbol)	STORM RISER SYMBOL
(Symbol)	VENT RISER SYMBOL
(Symbol)	DEMOLITION NOTES
(Symbol)	PLUMBING NOTES

DATE: _____

REVISION: _____

NO. _____

DELAWARE ARCHITECTS, LLC
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NEW CONSTRUCTION FOR:
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P1.3