DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

PROJECT ADDRESS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER ADDRESS
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	SUBMISSION	DATE		SUBMISSION	DATE
1	ISSUED FOR BID	10/15/2026	8		
2			9		
3			10		
4			11		
5			12		
6			13		
7			14		

DRAWING LIST

1	2	3	SHEET NO.	SHEET NAME
GENERAL				
X			CS01	COVER SHEET
X			LS001	BUILDING CODE
X			LS002	LIFE SAFETY PLAN
STRUCTURAL				
X			S001	COVER SHEET
X			S101	FOUNDATION PLAN
X			S102	ROOF FRAMING PLAN
X			S401	FOUNDATION DETAILS & SECTIONS
X			S501	FRAMING DETAILS & SECTIONS
X			S502	FRAMING DETAILS & SECTIONS
ARCHITECTURAL				
X			AD100	DEMOLITION PLANS
X			A101	NEW CONSTRUCTION FLOOR PLAN
X			A110	NEW CONSTRUCTION REFLECTED CEILING PLAN
X			A120	ROOF PLAN AND DETAILS
X			A301	EXTERIOR ELEVATION AND DETAILS
X			A401	ACCESSIBILITY STANDARDS
X			A402	ENLARGED RESTROOM PLANS AND ELEVATIONS
X			A410	ENLARGED PLANS AND ELEVATIONS
X			A531	PARTITION SCHEDULE & DETAILS
X			A601	DOOR SCHEDULE, WINDOW SCHEDULE & DETAILS
X			A801	FINISH LEGEND, SCHEDULE, & DETAILS
X			A902	EQUIPMENT & FURNITURE PLAN
X			A910	CASEWORK SECTIONS
X			A911	CASEWORK SECTIONS
MECHANICAL				
X			M001	MECHANICAL TITLE SHEET
X			MD101	FIRST FLOOR PLAN – HVAC – DEMOLITION
X			MD102	ROOF PLAN – HVAC – DEMOLITION
X			M101	FIRST FLOOR PLAN – HVAC – NEW WORK
X			MP101	FIRST FLOOR PLAN – MECHANICAL PIPING – NEW WORK
X			M102	ROOF PLAN – HVAC
X			M301	DETAILS – HVAC
X			M302	DETAILS – HVAC
X			M303	DETAILS – HVAC
X			M401	CONTROLS – HVAC
X			M402	CONTROLS – HVAC
X			M403	CONTROLS – HVAC
X			M501	SCHEDULES – HVAC
FIRE PROTECTION				
X			F101	FIRE PROTECTION ZONING DIAGRAM
PLUMBING				
X			P001	PLUMBING TITLE SHEET
X			PD101	FIRST FLOOR PLAN – PLUMBING – DEMOLITION
X			PD102	ROOF PLAN – PLUMBING – DEMOLITION
X			P101	FIRST FLOOR PLAN – PLUMBING – NEW WORK
X			P102	ROOF PLAN – PLUMBING – NEW WORK
X			P301	DETAILS – PLUMBING
X			P302	DETAILS – PLUMBING
X			P303	DETAILS – PLUMBING
X			P304	DETAILS – PLUMBING
X			P401	RISERS – PLUMBING
X			P402	RISERS – PLUMBING
X			P403	RISERS – PLUMBING
X			P501	SCHEDULES – PLUMBING
ELECTRICAL				
X			E001	LEGEND AND ABBREVIATIONS ELECTRICAL
X			E002	LIGHTING FIXTURE SCHEDULE
X			ED101	FIRST FLOOR PLAN – LIGHTING – DEMOLITION
X			ED201	FIRST FLOOR PLAN – POWER AND SPECIAL SYSTEM– DEMOLITION
X			E201	FIRST FLOOR PLAN - LIGHTING
X			E301	FIRST FLOOR PLAN - POWER
X			E302	ROOF PLAN – ELECTRICAL
X			E401	FIRST FLOOR PLAN - FIRE ALARM
X			E501	SCHEMATIC POWER RISER DIAGRAM
X			E502	SCHEMATIC FIRE ALARM RISER DIAGRAM
X			E601	SCHEDULES ELECTRICAL
X			E701	DETAILS ELECTRICAL
X			E702	DETAILS ELECTRICAL
X			E703	DETAILS ELECTRICAL
X			E704	DETAILS ELECTRICAL
X			E705	DETAILS ELECTRICAL
X			E706	DETAILS ELECTRICAL

SYMBOLS LEGEND

NOTE: NOT ALL LEGENDS & SYMBOLS ARE IDENTIFIED ON THIS SHEET. ALSO REFER TO SPECIFIC DRAWINGS

1 / A101	DRAWING TITLE	CW-1	CASEWORK IDENTIFIER
		X	WINDOW & CURTAINWALL IDENTIFIER
		XX	TOILET ACCESSORY IDENTIFIER
1	REVISION MARK	101	DOOR IDENTIFIER
Room name / ROOM NUMBER: 101	ROOM IDENTIFIER	A##A	WALL TYPE IDENTIFIER (SEE PARTITION TYPES FOR ADDITIONAL WALL TYPE IDENTIFIER)
Name / Elevation	FINISH ELEVATION SYMBOL	1' / 00' - 0"	CEILING TYPE/HEIGHT IDENTIFIER
##.#	COLUMN LINE/GRID	PT-1	LIMITS DEFINER
SIM / 1 / A-101	SECTION INDICATOR	X	KEYNOTE
1 / A-101	ELEVATION SYMBOL	XX	EXTERIOR FINISH
SIM / 1 / A101	DETAIL CALL-OUT IDENTIFIER		
1 / 4 / 01 A-101 / 2 / 3	INTERIOR ELEVATION IDENTIFIER		
(WINDOW MARKER NO.) SF## ## (GLASS TYPE)	STOREFRONT IDENTIFIER		
(WINDOW MARKER NO.) BL## ## (GLASS TYPE)	BORROWED LIGHT/H.M. IDENTIFIER		

PLAN LEGEND

NEW PARTITION		1 HR FIRE RATED BARRIER	
NEW DOOR		2 HR FIRE RATED BARRIER	
EXISTING DOOR		N / PLAN NORTH / TRUE NORTH	
EXISTING PARTITION		FEC	FIRE EXTINGUISHER CABINET (SEE PROJ. MANUAL FOR TYPES)
OVERHEAD			ELECTRIC WATER COOLER

MATERIAL LEGEND

	CONCRETE		BATT INSULATION
	CONCRETE MASONRY UNIT		BLOCKING
	RIGID INSULATION		CRUSHED STONE
	GYPSUM WALL BOARD		EARTH
	FINISH WOOD		PLYWOOD
	STEEL		BRICK
	SPRAY FOAM INSULATION		

SITE MAP



ABBREVIATIONS

@	AT
A	
A.B.	ANCHOR BOLT
A.F.F.	ABOVE FINISH FLOOR
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
B	
B.F.F.	BELOW FINISH FLOOR
B.O.	BOTTOM OF
B.O.D.	BASIS OF DESIGN
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BRK	BRICK
BRNG/BRG	BEARING
C	
CEIL/CLG	CEILING
CJ/CJT	CONTROL JOINT
CL	CENTERLINE
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CT	CERAMIC TILE
D	
D	DRAIN
D.P.	DAMPPROOFING
DEM	DEMOLISH/DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DITTO
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	
E.F.	EXHAUST FAN
E.P.	ELECTRIC PANEL
E.T.R.	EXISTING TO REMAIN
E.W.	EACH WAY
EA	EACH
E.JEXP.JT.	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
EOD	EMERGENCY OVERFLOW DRAIN
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST/EXTG	EXISTING
EXP	EXPOSED/EXPANSION
EXT	EXTERIOR
F	
F.D	FLOOR DRAIN
F.R.	FIRE RATED
FACP	FIRE ALARM CONTROL PANEL
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH(ED)
FLG	FLASHING
FLR/FL	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FRT	FIRE-TREATED
FTG	FOOTING
G	
G.B.	GRAB BARS
G.C.	GENERAL CONTRACTOR
GA	GUAGE
GALV	GALVANIZED
GYP BD/GWB	GYPSUM WALL BOARD
H	
H.B.	HOSE BIB
H.P.	HIGH POINT
HAL	HALIDE
HC	HANDICAPPED/HOLLOW CORE
HDCP	HANDICAPPED
HDW	HARDWARE
HGT/HT	HEIGHT
HMH/MTL	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HWH	HOT WATER HEATER
I	
ID	INSIDE DIAMETER
IG	INSULATED GLASS
INCL	INCLUDE (D) (ING)
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
J	
J.C.	JANITOR'S CLOSET
JAN	JANITOR
JT	JOINT
L	
L.P.	LOW POINT
LAV	LAVATORY
LT	LIGHT
M	
M.O.	MASONRY OPENING
M.W.P.	MEMBRANE WATER PROOFING
MACH	MACHINE
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTUR(ER)
MH	MOUNTING HEIGHT/MANHOLE/METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
MULL	MULLION
N	
N	NORTH
N.I.C.	NOT IN CONTRACT/NOT INCLUDED
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
NO.	NUMBER
NOM.	NOMINAL
O	
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OA	OVERALL
OPNG	OPENING
OPP.	OPPOSITE
P	
P-LAM	PLASTIC LAMINATE
PARTN	PARTITION
PTD	PAINTED
PWD	PLYWOOD
Q	
QT	QUARRY TILE
R	
R	RISER
R.L.	RAIN LEADER
R.O.	ROUGH OPENING
R/RAD	RADIUS
RD	ROOF DRAIN
RM	ROOM
RTU	ROOF TOP UNIT
S	
S/S	STAINLESS STEEL
SHT	SHEET
SPEC	SPECIFICATIONS
SQ	SQUARE
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SYST	SYSTEM
T	
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK(NESS)
TYP	TYPICAL
U	
U.C.	UNDERCUT
UL	UNDERWRITERS LABORATORY
V	
V.B.	VAPOR BARRIER/VINYL COVE BASE
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
W	
W	WEST/WIDE/WIDTH
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD

SITE AERIAL VIEW



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21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER
DELAWARE TECHNICAL COMMUNITY COLLEGE
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GEORGETOWN, DELAWARE 19947

COVER SHEET

BID SET

TRUE NORTH / PLAN NORTH

ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2025	ISSUED FOR BIDDING

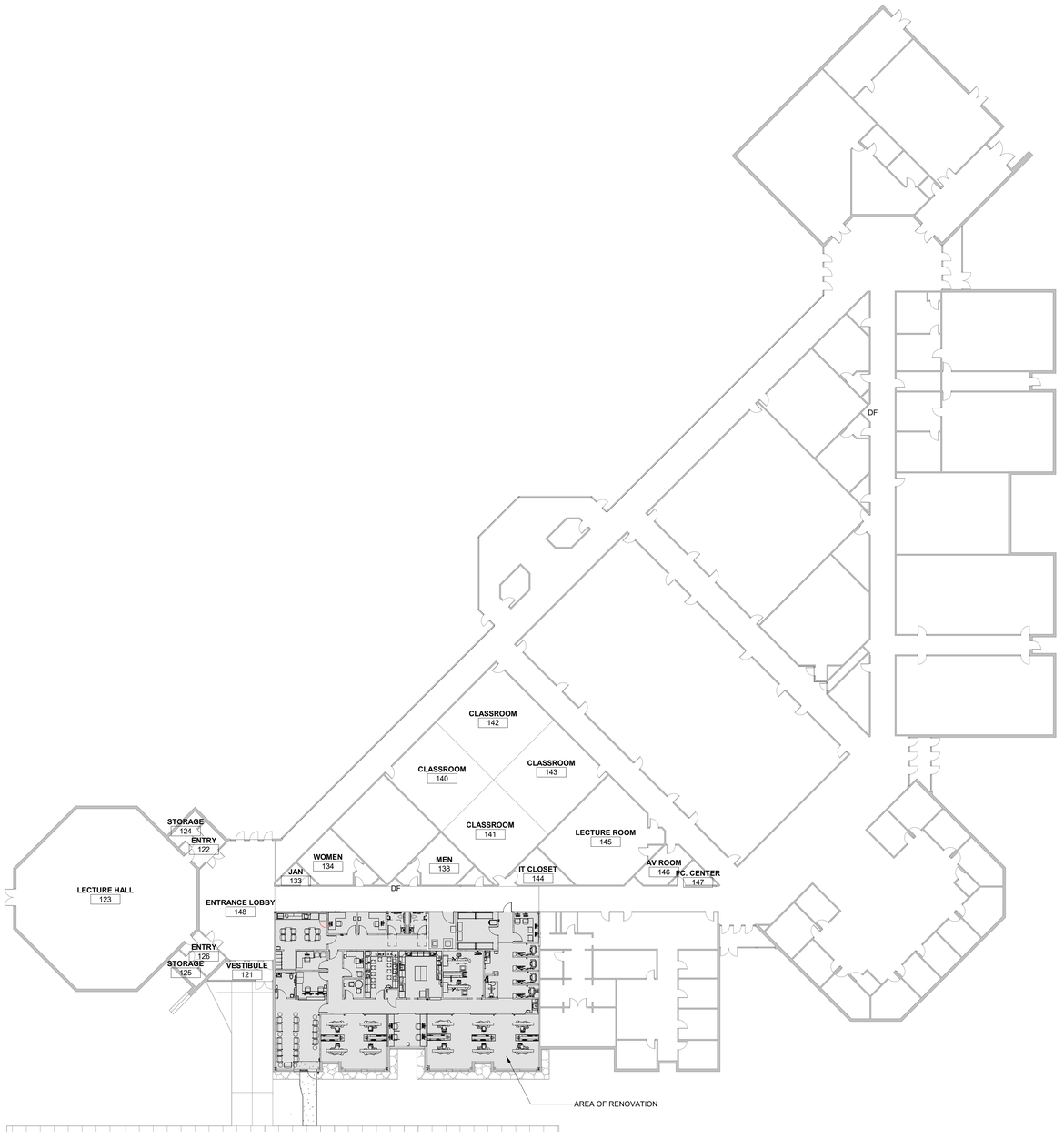
Date	10/12/2026
Scale	12" = 1'-0"
Drawn	AC
Checked	AB
Approved	AB
Project	25040
Sheet	**CS01**

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OCCUPANCY SCHEDULE					
		IBC COUNT		NFPA COUNT	
OCCUPANCY	SQUARE FEET	OCCUPANCY FACTOR	NUMBER OF OCCUPANTS	OCCUPANT FACTOR	NUMBER OF OCCUPANTS
BUSINESS (B)	5,357	150 G.S.F.	36	150 G.S.F	36
ASSEMBLY	442	15 G.S.F.	30	15 G.S.F.	30
TOTAL			**63**	**-**	**63**

PLUMBING FIXTURES REQUIRED										
OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS			LAVATORIES			BATHTUB / SHOWER	DRINKING FOUNTAINS	SERVICE SINKS
		UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE			
BUSINESS (B)	63	1 PER 25 FOR FIRST 50, 1 PER 50 AFTER			1 PER 40 FOR FIRST 80, 1 PER 80 AFTER			NOT REQUIRED	1 PER 100	1 REQUIRED
		0	2	2	0	2	2	0	1	1
TOTAL REQUIRED	0	1*	1*	1*	1*	1	1	0	0**	1

* 22 TOILETS AND SINKS ARE ADJACENT TO SPACE AND ARE EXISTING TO REMAIN IN BUILDING.
** 2 DRINKING FOUNTAINS ARE ADJACENT TO SPACE AND ARE EXISTING TO REMAIN IN BUILDING.



A1 / LS001 **OVERALL FLOOR PLAN**
Scale : 1" = 20'-0"

APPLICABLE CODES

EXISTING BUILDING	2021 INTERNATIONAL EXISTING BUILDING CODE 2021 INTERNATIONAL BUILDING CODE
ACCESSIBILITY	AADJ / ANSI 117.1- 2017 ACCESSIBILITY CODE
PLUMBING	2018 INTERNATIONAL PLUMBING CODE
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE
ELECTRICAL	2023 INTERNATIONAL ELECTRICAL CODE / NFPA 70
ENERGY	2024 INTERNATIONAL ENERGY CONSERVATION CODE
FIRE	2024 INTERNATIONAL FIRE CODE DE STATE FIRE PREVENTION REGULATIONS
LIFE SAFETY	2024 NFPA 101

BUILDING DATA

FLOOR	EXISTING (SF)	AREA OF WORK (SF)
FIRST	63,951 SF	5,357 SF
TOTAL:	**63,951 SF**	**5,357 SF**

STORIES ABOVE GRADE: 1 STORY

HEIGHT - LOWEST FIRE DEPT. ACCESS TO HIGHEST OCCUPIED FL LEVEL: 42' -6"
HEIGHT - GRADE PLANE TO AVG. HEIGHT OF HIGHEST ROOF: 60'-2"
GRADE PLANE ELEVATION: VARIES (-16'-0" WHERE LOWER LEVEL IS ACCESSED AT GRADE)
FINISHED FIRST FLOOR ELEVATION: 0'-0"

OCCUPANCY

OCCUPANCY CLASSIFICATION: MIXED USE

BUILDING CODE (CH. 3)	LIFE SAFETY (CH. 6)
BUSINESS (B)	EXISTING BUSINESS (CH. 39)

CONSTRUCTION (IBC CHAPTER 6)

	BUILDING CODE	LIFE SAFETY CODE
CONSTRUCTION CLASSIFICATION:	TYPE II-B (IBC TABLE 601)	TYPE II (000)
STRUCTURAL FRAME	0	0
EXTERIOR BEARING WALL	0	0
INTERIOR BEARING WALL	0	0
NON-BEARING EXTERIOR WALLS	0	0
NON-BEARING INTERIOR WALLS	0	0
FLOOR CONSTRUCTION	0	0
ROOF CONSTRUCTION	0	0

ALLOWABLE HEIGHT & AREA (IBC CHAPTER 5)

	BUSINESS (B)	NOTES:
HEIGHT (STORIES)	4	NOT APPLICABLE
HEIGHT (FEET)	75 FT	NOT APPLICABLE
AREA (SF)	92,000 SF	NOT APPLICABLE

MEANS OF EGRESS

EGRESS WIDTH	BUILDING CODE	LIFE SAFETY
STAIRS	0.2" PER OCCUPANT	*0.3" PER OCCUPANT*
MINIMUM STAIR	44" (36" IF OL < 50)	36" IF , 50 (44" IF <2000 PERSONS)(56" IF > 2000 PERSONS)
DOORS / CORRIDOR	0.15: PER OCCUPANT	*0.2" PER OCCUPANT*
MINIMUM CORRIDOR	44"	36"
AISLE EGRESS WIDTH	44"	36"

MAX EXIT ACCESS TRAVEL DISTANCE	BUILDING CODE	LIFE SAFETY
BUSINESS	300 FT	300 FT

DEAD END CORRIDORS	BUILDING CODE	LIFE SAFETY
BUSINESS	50 FT	50 FT

COMMON PATH OF TRAVEL	BUILDING CODE	LIFE SAFETY
BUSINESS	100 FT	100 FT

FIRE PROTECTION

	BUILDING CODE	LIFE SAFETY CODE	DE FIRE CODE	NOTES
FIRE SUPPRESSION SYSTEM	REQUIRED	REQUIRED	REQUIRED	EXISTING PROVIDED
STANDPIPES	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	-
FIRE ALARM SYSTEM	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	EXISTING SPRINKLER ALARM
FIRE EXTINGUISHER	REQUIRED	REQUIRED	REQUIRED	EXISTING PROVIDED

EXISTING BUILDING CODE SUMMARY

COMPLIANCE METHOD : WORK AREA COMPLIANCE [301.1.2]

CHAPTER 8 - ALTERATION LEVEL 2

SECTION 603.1 - SCOPE
LEVEL 2 ALTERATIONS INCLUDE THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, AND SHALL APPLY WHERE THE WORK AREA IS EQUAL TO LESS THAN 50 PERCENT OF THE BUILDING AREA.

SECTION 603.2 - APPLICATION
LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 FOR LEVEL 1 ALTERATIONS, RESPECTIVELY, AS WELL AS THE PROVISIONS OF CHAPTER 9.

SECTION 801.2 - COMPLIANCE
IN ADDITION TO THE PROVISIONS OF THIS CHAPTER, ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 7.

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BUILDING CODE

BID SET

PLAN NORTH

ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	As indicated
Drawn	AC
Checked	AB
Approved	AB
Project	25040
Sheet	LS001

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LIFE SAFETY OCCUPANCY LEGEND

1. FUNCTION OF SPACE:

ASSEMBLY/ TABLES & CHAIRS
(15 S.F./PERSON)

BUSINESS (IBC 2018)
(150 S.F./PERSON)

EGRESS SYMBOLS LEGEND

EGRESS CORRIDORS

STAIR WIDTH	44"	STAIR WIDTH (INCHES)
REQ'D WIDTH / OCC.	0.30	WIDTH PER OCCUPANT (INCHES)
MAX OCC.	146	MAX NUMBER OF OCCUPANTS
ACTUAL OCC.	24	ACTUAL NUMBER OF OCCUPANTS

EGRESS DOOR CAPACITY

DOOR WIDTH	34"	DOOR WIDTH (INCHES)
REQ'D WIDTH / OCC.	0.20"	WIDTH PER OCCUPANT (INCHES)
MAX ALLOWABLE OCC.	170	MAX NUMBER OF OCCUPANTS
ACTUAL OCCUPANTS	-	ACTUAL NUMBER OF OCCUPANTS

LIFE SAFETY SYMBOLS LEGEND

2. PARTITION RATINGS:

SMOKE PARTITION

SMOKE BARRIER

1 HOUR FIRE BARRIER

2 HOUR FIRE BARRIER

3. EGRESS:

NAME — ROOM NAME
— ROOM NUMBER

TOTAL 35'-0" — TRAVEL DISTANCE

EXIT SIGNS

4. FIRE SUPPRESSION:

FE	FIRE EXTINGUISHER W/ WALL MOUNTED BRACKET\
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET WITH FIRE EXTINGUISHER
FCC	FIRE COMMAND CENTER
FDC	FIRE DEPARTMENT CONNECTION
FV	FIRE VALVE CONNECTION
FVC	FIRE VALVE CONNECTION CABINET WITH FIRE EXTINGUISHER
SP	STAND PIPE



A1 / LS002 **LIFE SAFETY PLAN**
Scale : 3/16" = 1'-0"

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LIFE SAFETY PLAN

BID SET

PLAN NORTH / TRUE NORTH

ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	As indicated
Drawn	AC
Checked	AB
Approved	AB
Project	25040
Sheet	LS002

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DRAWING LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
F2.0	FOOTING SYMBOL (REFER TO SPREAD FOOTING SCHEDULE)		INDICATES WIDE FLANGE COLUMN
P1	PILE CAP SYMBOL (REFER TO PILE CAP SCHEDULE)		INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR TUBE STEEL (TS) COLUMN
1	TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL)		INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN
2W4	SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE)		INDICATES WOOD POST
0 RFI 00	REVISION TRIANGLE		INDICATES BUNDLED STUDS
1	TILT-UP/PRECAST CONCRETE WALL PANEL NUMBER (REFER TO TILT-UP/ PRECAST CONCRETE WALL ELEVATIONS)		INDICATES CONCRETE COLUMN
1	CMU WALL REINFORCING SYMBOL (REFER TO CMU WALL REINFORCING SCHEDULE)		INDICATES PRECAST CONCRETE COLUMN
8"	CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL)		INDICATES MOMENT FRAME CONNECTION
DS	INDICATES DOUBLE SHEAR CONNECTION (REFER TO THE DOUBLE SHEAR PLATE CONNECTIONS DETAIL)		INDICATES PARTIALLY RESTRAINED MOMENT FRAME CONNECTION
00TB	INDICATES REINFORCING TYPE (REFER TO THE REINFORCING SCHEDULE)		INDICATES CANTILEVER CONNECTION
SR__	INDICATES NUMBER OF STUD RAIL REQUIRED AT COLUMN (REFER TO STUD RAIL DETAILS)		INDICATES DRAG CONNECTION
1	ROOF/FLOOR DIAPHRAGM NAILING SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE)		INDICATES A LEDGER
	INDICATES DIRECTION OF DECK SPAN		INDICATES WOOD OR STEEL STUD BEARING WALL LINE PER KEY ON SHEET
T/FTG = X'-X"	ELEVATION SYMBOL (T/ REFERS TO COMPONENT THAT THE ELEVATION REFERENCES)	OR	INDICATES WOOD OR STEEL STUD SHEAR WALL LINE AND HOLD-DOWNS PER KEY ON SHEET
3	STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS NUMBER SPECIFIED IN PLAN NOTE)		INDICATES MASONRY/CMU WALL
	INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL)		INDICATES CONCRETE/TILT-UP CONCRETE WALL
XX S/XXX	DETAILS OR SECTION CUT (DETAIL NUMBER/SHEET NUMBER)		INDICATES BEARING WALL ABOVE
00 S0.0	DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER)		INDICATES EXISTING WALL OR NEW CONSTRUCTION BY OTHERS
XX/SXX.XX	INDICATES LOCATION OF CONCRETE WALLS, SHEAR WALLS OR BRACED FRAME ELEVATIONS		POST-TENSION DEAD END (PLAN)
	STRUCTURAL EXTENT SYMBOL SINGLE ARROW - END OF EXTENT DOUBLE ARROW - CONTINUOUS EXTENT ALONG THE ELEMENT LINE UNTIL THE ELEMENT IS INTERRUPTED		POST-TENSION STRESSING END (PLAN)
		3	POST-TENSION PROFILE (PLAN) (IN INCHES)
	INDICATES APPROXIMATE LOCATION OF PENETRATION THROUGH FRAMING MEMBER		INTERMEDIATE STRESSING (PLAN)
	INDICATES BOTTOM CHORD EXTENSIONS TO BE PROVIDED AT OWSJ'S ON COLUMN CENTER LINES		INDICATES REQUIRED SHORING (PLAN)
	INDICATES THE CRIPPLE POINT IN STEEL MEMBER, REFER TO TYP DETAIL FOR ADDL INFORMATION		

ABBREVIATIONS

L	Angle	EXCAV	Excavation	PLF	Pounds Per Linear Foot
AB	Anchor Bolt	FB	Factory-Built	PLWD	Plywood
ADDL	Additional	FD	Floor Drain	PREFAB	Prefabricated
ADH	Adhesive	FDN	Foundation	PSF	Pounds per Square Foot
ALT	Alternate	FIN	Finish	PSI	Pounds Per Square Inch
ARCH	Architectural	FLR	Floor	PSL	Parallel Strand Lumber
B or BOT	Bottom	FRP	Fiberglass Reinforced Plastic	PT	Pressure Treated
B/	Bottom Of	FRT	Fire Retardant Treated	P-T	Post-Tensioned
BF	Braced Frame	FTG	Footing	R	Radius
BLDG	Building	F/	Face of	RD	Roof Drain
BLKG	Blocking	GA	Gage	REF	Refer/Reference
BMU	Brick Masonry Unit	GALV	Galvanized	REINF	Reinforcing
BP	Baseplate	GEOTECH	Geotechnical	REQD	Required
BRBF	Buckling Restrained Braced Frame	GL	Glue Laminated Timber	RET	Retaining
		GWB	Gypsum Wall Board	RS	Rough Sawn
BTWN	Between	HD	Hold-down	SB	Site-Built
BRG	Bearing	HDR	Header	SCBF	Special Concentric Braced Frame
C	Camber	HEF	Horizontal Each Face		
CANT	Cantilever	HF	Hem-Fir	SCHED	Schedule
CB	Castellated Beam	HGR	Hanger	SER	Structural Engineer of Record
C' BORE	Counterbore	HORIZ	Horizontal		
CL or ℄	Centerline	HP	High Point	SF	Square Foot
CLT	Cross-Laminated Timber	HSS = TS	(Hollow Structural Section)	SFRS	Seismic Force-Resisting System
CIP	Cast in Place	IBC	International Building Code		
CFMF	Cold Formed Metal Framing	ID	Inside Diameter	SHTHG	Sheathing
		IE	Invert Elevation	SIM	Similar
CFS	Cold Formed Steel	IF	Inside Face	SLBB	Short Leg Back-to-Back
CJ	Construction or Control Joint	INT	Interior	SMF	Special Moment Frame
		k	Kips	SOG	Slab on Grade
CJP	Complete Joint Penetration	KSF	Kips Per Square Foot	SP	Southern Pine
		LF	Lineal Foot	SPEC	Specification
CLR	Clear	LL	Live Load	SR	Studrail
CLG	Ceiling	LLBB	Long Leg Back-to-Back	SST	Stainless Steel
CMU	Concrete Masonry Unit	LLH	Long Leg Horizontal	STAGG	Stagger/Staggered
COL	Column	LLV	Long Leg Vertical	STD	Standard
CONC	Concrete	LONGIT	Longitudinal	STIFF	Stiffener
CONN	Connection	LP	Low Point	STL	Steel
CONST	Construction	LSL	Laminated Strand Lumber	STRUCT	Structural
CONT	Continuous	LVL	Laminated Veneer Lumber	SQ	Square
C'SINK	Countersink	LW	Light Weight	SWWJ	Solid Web Wood Joist
CTRD	Centered	MAS	Masonry	SYM	Symmetrical
DIA or Ø	Diameter	MAX	Maximum	T	Top
DIAG	Diagonal	MECH	Mechanical	T&B	Top & Bottom
DB	Drop Beam	MEP	Mechanical, Electrical, Plumbing	TC AX LD	Top Chord Axial Load
DBA	Deformed Bar Anchor			TCX	Top Chord Extension
DBL	Double	MEZZ	Mezzanine	TDS	Tie Down System
DEMO	Demolish	MF	Moment Frame	TDSE	Turned Down Slab Edge
DEV	Development	MFR	Manufacturer	THKND	Thickened
DF	Douglas Fir	MIN	Minimum	THRD	Threaded
DIST	Distributed	MISC	Miscellaneous	THRU	Through
DL	Dead Load	NIC	Not In Contract	TRANSV	Transverse
DN	Down	NLT	Nail-Laminated Timber	TS	Thickened Slab
DO	Ditto	NTS	Not To Scale	TYP	Typical
DP	Depth/Deep	NW	Normal Weight	T&G	Tongue & Groove
DWG	Drawing	OC	On Center	T/	Top Of
(E)	Existing	OCBF	Ordinary Concentric Braced Frame	UNO	Unless Noted Otherwise
EA	Each			URM	Unreinforced Masonry Unit
EF	Each Face	OD	Outside Diameter		
EL	Elevation	OF	Outside Face	VEF	Vertical Each Face
ELEC	Electrical	OPNG	Opening	VERT	Vertical
ELEV	Elevator	OPP	Opposite	VIF	Verify In Field
EMBED	Embedment	OWSJ	Open Web Steel Joist	W	Wide
EQ	Equal	OWWJ	Open Web Wood Joist	WHS	Welded Headed Stud
EQUIP	Equipment	PAF	Powder Actuated Fastener	WP	Working Point
EW	Each Way	PC	Precast	WWF	Welded Wire Fabric
EXP	Expansion	PERP	Perpendicular	W/	With
EXP JT	Expansion Joint	PJP	Partial Joint Penetration	W/O	Without
EXT	Exterior	PL	Plate	±	Plus or Minus

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET TITLE
S001	COVER SHEET
S002	GENERAL NOTES
S003	GENERAL NOTES AND SCHEDULE OF SPECIAL INSPECTIONS
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S401	FOUNDATION DETAILS & SECTIONS
S501	FRAMING DETAILS & SECTIONS
Sheet Total: 7	

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The professional services of the architect are undertaken and performed in the interest of DELAWARE TECHNICAL COMMUNITY COLLEGE. No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE

21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE
19947

COVER SHEET

BID SET

ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

BIDDING NOTE: THESE DOCUMENTS REPRESENT THE CURRENT STATE OF A DEVELOPING DESIGN AND AS SUCH, NOT ALL CONDITIONS ARE CURRENTLY SHOWN. ALL STRUCTURAL DETAILS AND CONNECTIONS SHOULD BE ACCOUNTED FOR IN THE GENERAL CONTRACTOR AND SUB-CONTRACTOR SERVICES. WHERE THE SPECIFICS OF THESE CONDITIONS ARE KNOWN OR MAY SHOW CONFLICTS OCCUR

FOR BID (NOT FOR CONSTRUCTION)
These drawings have been released at the request of the client for the purpose of bidding. These drawings are not intended for purposes of construction, permitting or recordation.

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DCI PROJECT: 26181-0175
CONTACT: R. SAVONA

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Date	10/15/2026
Scale	1/8" = 1'-0"
Drawn	JPA
Checked	RMS
Approved	STK
Project	25040
Sheet	S001

01.00.00 GENERAL REQUIREMENTS

1. **GOVERNING CODE:** THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE "INTERNATIONAL BUILDING CODE (IBC)," 2021 EDITION, HEREAFTER REFERRED TO AS THE IBC, AS ADOPTED AND MODIFIED BY THE CITY OF GEORGETOWN, DE UNDERSTOOD TO BE THE AUTHORITY HAVING JURISDICTION (AHJ).

2. **REFERENCE STANDARDS:** REFER TO CHAPTER 35 OF THE 2021 IBC. WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD.

3. **DEFINITIONS:** THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:
   3.1. "ARCHITECT/ENGINEER" - THE ARCHITECT OF RECORD AND THE STRUCTURAL ENGINEER OF RECORD.
   3.2. "STRUCTURAL ENGINEER OF RECORD" (SER) - THE STRUCTURAL ENGINEER WHO IS LICENSED TO STAMP AND SIGN THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
   3.3. "SUBMIT FOR REVIEW" - SUBMIT TO THE ARCHITECT/SER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.
   3.4. "PER PLAN" - INDICATES REFERENCES TO THE STRUCTURAL PLANS, ELEVATIONS, AND STRUCTURAL GENERAL NOTES.
   3.5. "BIDDER-DESIGNED" - COMPONENTS OF THE STRUCTURE THAT REQUIRE THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER WHO IS RESPONSIBLE FOR THE DESIGN, FABRICATION, AND INSTALLATION OF SPECIALTY-ENGINEERED ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS TO RETAIN THE SERVICES OF AN SSE. SUBMITTALS OF "BIDDER-DESIGNED" ELEMENTS SHALL BE STAMPED AND SIGNED BY THE SSE.

4. **SPECIFICATIONS:** REFER TO THE PROJECT SPECIFICATIONS ISSUED AS PART OF THE CONTRACT DOCUMENTS FOR INFORMATION SUPPLEMENTAL TO THESE DRAWINGS.

5. **OTHER DRAWINGS:** REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, FINISHES, DRAINS, WATERPROOFING, MECHANICAL UNIT LOCATIONS, EQUIPMENT AND LIGHTING BOOMS, AND OTHER NON-STRUCTURAL ITEMS.

6. **STRUCTURAL DETAILS:** THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. USE ENTIRE DETAIL SHEETS AND SPECIFIC DETAILS REFERENCED IN THE PLANS AS "TYPICAL" WHEREVER THEY APPLY. SIMILARLY, USE DETAILS ON ENTIRE SHEETS WITH "TYPICAL" IN THE NAME WHEREVER THEY APPLY.

7. **STRUCTURAL RESPONSIBILITIES:** THE SER IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM.

8. **COORDINATION:** THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK, CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES, TECHNIQUES OF ASSEMBLY, AND PERFORMING WORK IN A SAFE AND SECURE MANNER. ALL DIMENSIONS IN STRUCTURAL DRAWINGS WERE DEVELOPED BY OTHER DISCIPLINES. SCALING OF STRUCTURAL DRAWINGS TO DETERMINE ELEMENTS IS NOT PERMITTED.

9. **EXISTING CONDITIONS:** INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENT THE PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH CONTRACT DOCUMENTS TO THE ARCHITECT OR SER. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE ARCHITECT AND/OR SER. ALL EXISTING DIMENSIONS AND INFORMATION SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AS REQUIRED TO COORDINATE WITH NEW CONSTRUCTION.

10. **NEW CONSTRUCTION:** THE CONTRACTOR SHALL REMOVE ALL INTERFERING ITEMS FOR NEW CONSTRUCTION AND SHALL REPAIR OR REPLACE ALL REMOVED ITEMS TO MATCH THE EXISTING CONDITIONS IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS. NEW CONSTRUCTION ELEMENTS SHALL BE DESIGNED AND INSTALLED PER THE CURRENT IBC AS ALLOWED BY THE IBC.

11. **MEANS, METHODS, AND SAFETY REQUIREMENTS:** THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB-RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH). THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION RELATED TO THE INTERMEDIATE STRUCTURAL CONDITIONS (I.E., MOVEMENT OF THE STRUCTURE DUE TO MOISTURE AND THERMAL EFFECTS, CONSTRUCTION SEQUENCE, TEMPORARY BRACING, ETC.).

12. **TEMPORARY SHORING, BRACING:** THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING, AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

13. **CONSTRUCTION LOADS:** LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN DESIGN CRITERIA AND LOADS SECTION OF THESE GENERAL NOTES OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR 'S SSE FOR BRACING/SHORING.

14. **CHANGES IN LOADING:** THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON, THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF THE LOCATION, LOAD, SIZE, AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 300 LB. PROVIDE MARKED-UP STRUCTURAL PLANS INDICATING THE LOCATIONS OF ANY NEW EQUIPMENT OR LOADS. SUBMIT THESE PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

15. **NOTE PRIORITIES:** PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THESE GENERAL NOTES.

16. **DISCREPANCIES:** IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS, PLANS/DETAILS, OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

17. **SITE VERIFICATION:** THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

18. **ADJACENT UTILITIES:** THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATION WORK, SHORING AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

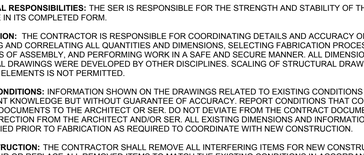
19. **ALTERNATES:** ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE, AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION (PROPER TEST REPORT, ETC.) TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

20. **ADDITIONS/ALTERATIONS/REPAIRS:**
   20.1. ADDITIONS, ALTERATIONS, AND/OR REPAIRS TO THE EXISTING STRUCTURE HAVE BEEN ANALYZED FOR ADDITIONAL LOADING AND/OR MODIFICATION DUE TO THE ADDITION, ALTERATION, OR REPAIR.
   20.2. ALL AFFECTED EXISTING MEMBERS HAVE BEEN ANALYZED OR REINFORCED AS REQUIRED PER THE IEBC.
   20.3. ALL DEMOLITION OR REMOVAL OF ARCHITECTURAL, MECHANICAL, OR STRUCTURAL ELEMENTS SHALL NOT DAMAGE STRUCTURAL ITEMS TO REMAIN.

01.10.00 DESIGN CRITERIA AND LOADS

1. **OCCUPANCY:**
   RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 II

2. **WIND DESIGN: COMPONENTS AND CLADDING (C&C) PRESSURES FOR DESIGN (PSF, ULTIMATE):**



PLAN

ISOMETRIC

EFFECTIVE WIND AREA (FT²)

a = 14'-0"	10	20	50	100	500
ZONE 1	-52 / +16	-48 / +16	-44 / +16	-41 / +16	-33 / +16
ZONE 1'	-30 / +16	-30 / +16	-30 / +16	-30 / +16	-20 / +16
ZONE 2	-68 / +16	-64 / +16	-58 / +16	-54 / +16	-44 / +16
ZONE 3	-93 / +16	-84 / +16	-73 / +16	-64 / +16	-44 / +16
ZONE 4	-32 / +30	-31 / +29	-29 / +27	-28 / +26	-25 / +23
ZONE 5	-40 / +30	-37 / +29	-34 / +27	-31 / +26	-25 / +23

   2.1. COMPONENTS AND CLADDING WIND PRESSURES ARE BASED ON ASCE 7 CHAPTER 30 PART 1 "LOW-RISE BUILDINGS."
   2.2. COMPONENTS AND CLADDING ZONE LOCATIONS ARE BASED ON ASCE 7 FIGURE 30.3-2A FOR FLAT ROOFS.
   2.3. FOR PARAPETS AROUND THE PERIMETER OF THE ROOF EQUAL TO OR TALLER THAN 3', PRESSURES FROM ZONE 3 ARE TREATED AS ZONE 2.
   2.4. COMPONENTS AND CLADDING ZONE LOCATIONS ARE BASED ON ASCE 7 FIGURE 30.3-1 FOR WALLS.
   2.5. ALL PARAPET COMPONENTS AND CLADDING WIND PRESSURES SHALL BE DETERMINED THROUGH ASCE 7 FIGURE 30.6-1.

3. **SNOW LOAD:**

FLAT ROOF SNOW LOAD, P_f	20 PSF [NOTE 3.1]
SNOW DRIFT LOADING REQUIRED BY AHJ?	YES
SNOW LOAD IMPORTANCE FACTOR, I_s	1.00 [NOTE 3.3]
GROUND SNOW LOAD, P_g	20 PSF
SNOW EXPOSURE FACTOR, C_e	0.9
THERMAL FACTOR, C_t	1.0

   3.1. SNOW LOAD IS UN-REDUCIBLE AND INCLUDES 5 PSF RAIN-ON-SNOW SURCHARGE WHERE GROUND SNOW LOAD IS 20 PSF OR LESS, BUT NOT ZERO, PER ASCE 7 SECTION 7.10.
   3.2. SNOW LOAD BASED ON ASCE FIGURE 7-1.
   3.3. SNOW LOAD IMPORTANCE FACTOR PER ASCE 7 TABLE 1.5-2.

4. **DESIGN LIVE LOADS:** SEE DESIGN LOAD SCHEDULE AT THE END OF THE GENERAL NOTES FOR ALL LIVE LOAD AREA LOAD REQUIREMENTS. LOADS LISTED BELOW ARE FOR MISCELLANEOUS ITEMS.

AREA	LIVE LOADS
INTERIOR WALLS AND PARTITIONS	5 (APPLIED HORIZONTALLY)
LOBBIES	100 PSF AND 2,000 LB
CORRIDORS AT FIRST FLOOR	100 PSF
OFFICES	50 + 15 PSF OR 2,000 LB [NOTE]
ROOFS	20 PSF (REDUCIBLE) OR 300 LB [NOTE]. SEE SECTION 3 FOR SNOW LOAD

01.20.00 SUBMITTALS

1. **SUBMIT FOR REVIEW:** SUBMITTALS OF SHOP DRAWINGS AND PRODUCT DATA ARE REQUIRED FOR ITEMS NOTED IN THE INDIVIDUAL MATERIALS SECTIONS OF THESE GENERAL NOTES AND FOR BIDDER-DESIGNED ELEMENTS. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED TO CREATE SHOP DRAWINGS OR SHORING DOCUMENTATION WITHOUT THE EXPRESS WRITTEN CONSENT OF DCI ENGINEERS.

2. **SUBMITTAL REVIEW PERIOD:** SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS OR TEN WORKING DAYS FOR REVIEW BY THE ARCHITECT/ENGINEER PRIOR TO THE ONSET OF FABRICATION.

3. **GENERAL CONTRACTOR 'S PRIOR REVIEW:** PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER, THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE SER; THEREFORE, THEY MUST BE VERIFIED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY THE DETAILER AND PROVIDE THE CONTRACTOR 'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO THE ARCHITECT/ENGINEER.

4. **SHOP DRAWING REVIEW:** ONCE THE CONTRACTOR HAS COMPLETED THEIR REVIEW, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM. THE SER WILL RETURN SUBMITTALS IN THE FORM IN WHICH THEY ARE SUBMITTED (EITHER HARD COPY OR ELECTRONIC), FOR HARD COPY SUBMITTALS, THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE REQUIRED NUMBER OF COPIES TO THE SER FOR REVIEW. PRIOR TO THE FIRST SUBMITTAL, CONTRACTOR SHALL PROVIDE DESIGN TEAM WITH A SHOP DRAWING SUBMITTAL SCHEDULE TO ALLOW THE SER APPROPRIATE NOTICE OF SUBMITTALS, DUE DATES AND ALLOW FOR THE APPROPRIATE STAFFING. REVIEW OF "MAKE CORRECTIONS NOTED" SHOP DRAWINGS BEYOND ONE RE-SUBMITTAL WILL REQUIRE ADDITIONAL FEE.

5. **SHOP DRAWING DEVIATIONS:** WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS, THEY SHALL BE DESIGNED AND STAMPED BY THE RESPONSIBLE SSE.

01.30.00 DEFERRED SUBMITTALS

1. **BIDDER-DESIGNED ELEMENTS:** SUBMIT "BIDDER-DESIGNED" DEFERRED SUBMITTALS TO THE ARCHITECT AND SER FOR REVIEW. THE DEFERRED SUBMITTALS SHALL ALSO BE SUBMITTED TO THE CITY FOR APPROVAL IF REQUIRED BY THE CITY. DESIGN OF PREFABRICATED, "BIDDER-DESIGNED," MANUFACTURED, PRE-ENGINEERED, OR OTHER FABRICATED PRODUCTS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
   1.1. DESIGN CONSIDERS TRIBUTARY DEAD, LIVE, WIND, AND EARTHQUAKE LOADS IN COMBINATIONS REQUIRED BY THE IBC.
   1.2. DESIGN WITHIN THE DEFLECTION LIMITS NOTED IN THESE GENERAL NOTES AND AS SPECIFIED OR REFERENCED IN THE IBC.
   1.3. DESIGN SHALL CONFORM TO THE SPECIFICATIONS AND REFERENCE STANDARDS OF THE GOVERNING CODE.
   1.4. SUBMITTAL SHALL INCLUDE:
      1.4.1. CALCULATIONS PREPARED, STAMPED, AND SIGNED BY THE SSE DEMONSTRATING CODE CONFORMANCE.
      1.4.2. ENGINEERED COMPONENT DESIGN DRAWINGS ARE PREPARED, STAMPED, AND SIGNED BY THE SSE.
      1.4.3. PRODUCT DATA, TECHNICAL INFORMATION AND MANUFACTURER 'S WRITTEN REQUIREMENTS, AND AGENCY APPROVALS AS APPLICABLE.
      1.4.4. THE SSE MAY SUBMIT TO THE ARCHITECT/ENGINEER A REQUEST TO UTILIZE RELEVANT ALTERNATE DESIGN CRITERIA OF SIMILAR NATURE AND GENERAL EQUIVALENCY WHICH IS RECOGNIZED BY THE CODE AND ACCEPTABLE TO THE AHJ. SUBMIT ADEQUATE DOCUMENTATION OF DESIGN.

2. **GENERAL CONTRACTOR 'S PRIOR REVIEW:**
   2.1. ONCE THE CONTRACTOR HAS COMPLETED THEIR REVIEW OF THE SSE COMPONENT DRAWINGS, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY.
   2.2. REVIEW OF THE SSE'S SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) IS FOR COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE SSE OF RESPONSIBILITY FOR THAT DESIGN.
   2.3. ALL NECESSARY BRACING, TIES, ANCHORAGE, AND PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER 'S INSTRUCTIONS OR THE SSE 'S DESIGN DRAWINGS AND CALCULATIONS.
   2.4. BIDDER-DESIGNED ELEMENTS INCLUDE BUT ARE NOT LIMITED TO:
      2.4.1. DENTAL EQUIPMENT BOOMS AND LIGHTING TRACKS
      2.4.2. EXTERIOR CLADDING SYSTEMS: CURTAIN WALL SYSTEMS, PRE-ENGINEERED PANELS
      2.4.3. ROOF MOUNTED COMPONENTS: SKYLIGHTS, HATCHES
      2.4.4. MECHANICAL, ELECTRICAL, PLUMBING, AND SPRINKLER HANGER PLANS
      2.4.5. TEMPORARY SHORING SYSTEMS
      2.4.6. COLD-FORMED METAL STUDS - FRAMING INTERIOR WALLS INCLUDING PARTIAL HEIGHT
      2.4.7. COLD-FORMED METAL STUDS AND JOISTS FRAMING OVERHEAD SOFFITS

01.40.00 INSPECTIONS, QUALITY ASSURANCE, AND TEST REQUIREMENTS

1. **INSPECTIONS:** FOUNDATIONS, FOOTINGS, AND UNDER SLAB SYSTEMS AND FRAMING ARE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SECTION 110.3. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.

2. **SPECIAL INSPECTIONS, VERIFICATIONS, AND TESTS:** SPECIAL INSPECTIONS, VERIFICATIONS, AND TESTING SHALL BE DONE IN ACCORDANCE WITH IBC CHAPTER 17, THE STATEMENT AND SCHEDULES OF SPECIAL INSPECTIONS LISTED IN THESE DRAWINGS, AND THE AHJ STATEMENT OF SPECIAL INSPECTION AND/OR STATEMENT OF STRUCTURAL OBSERVATIONS.

3. **CONTRACTOR RESPONSIBILITY:** PRIOR TO ISSUANCE OF THE BUILDING PERMIT, THE CONTRACTOR IS REQUIRED TO PROVIDE THE AHJ A SIGNED, WRITTEN ACKNOWLEDGEMENT OF THE CONTRACTOR 'S RESPONSIBILITIES ASSOCIATED WITH THE STATEMENT OF SPECIAL INSPECTIONS, PREVIOUSLY REFERENCED, ADDRESSING THE REQUIREMENTS LISTED IN IBC SECTION 1704.4. THE CONTRACTOR IS REFERRED TO IBC SECTIONS 1705.13.5 AND 1705.13.6 FOR ARCHITECTURAL AND MEP BUILDING SYSTEMS THAT MAY BE SUBJECT TO ADDITIONAL INSPECTIONS (BASED ON THE BUILDING'S DESIGNATED SEISMIC DESIGN CATEGORY LISTED IN THE DESIGN CRITERIA AND LOADS SECTION OF THESE GENERAL NOTES), INCLUDING ANCHORAGE OF HVAC DUCTWORK CONTAINING HAZARDOUS MATERIALS, PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE, COMBUSTIBLE, OR HIGHLY TOXIC MATERIALS, ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER, EXTERIOR WALL PANELS, AND SUSPENDED CEILING SYSTEMS.

03.20.00 CONCRETE REINFORCEMENT

1. **REFERENCE STANDARDS:** CONFORM TO:
   1.1. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE," SECTION 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS"
   1.2. ACI SP-66 "ACI DETAILING MANUAL"
   1.3. CRSI MSP "MANUAL OF STANDARD PRACTICE"
   1.4. ANSI/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL"
   1.5. IBC CHAPTER 19 "CONCRETE"
   1.6. ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   1.7. ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"

2. **SUBMITTALS:**
   2.1. CONFORM TO ACI 301 SECTION 3.1.2. SUBMIT PLACING DRAWINGS SHOWING FABRICATION DIMENSIONS AND PLACEMENT LOCATIONS OF REINFORCEMENT AND REINFORCEMENT SUPPORTS.
   2.2.

3. **MATERIALS:**

REINFORCING BARS [NOTE 3.1]	ASTM A615, GRADE 60, DEFORMED BARS
SMOOTH WELDED WIRE FABRIC	ASTM A1064
BAR SUPPORTS	CRSI MSP CHAPTER 3
TIE WIRE	16 GAGE OR HEAVIER, BLACK ANNEALED

   3.1. ASSUME GRADE 60 REINFORCEMENT UNLESS NOTED OTHERWISE ON PLAN. REFERENCE PLANS FOR HIGH STRENGTH REINFORCING LOCATIONS, INDICATED BY (GR 80) OR (GR 100).

4. **FABRICATION:** CONFORM TO ACI 301 SECTION 3.2.2 AND ACI SP-66.

5. **WELDING:** BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301 SECTION 3.2.2.2 AND AWS D1.4, AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.

6. **PLACING:** CONFORM TO ACI 301 SECTION 3.3.2. PLACING TOLERANCES SHALL CONFORM TO ACI 117.

7. **CONCRETE COVER:** CONFORM TO THE FOLLOWING COVER REQUIREMENTS UNLESS NOTED OTHERWISE ON PLAN:

CONCRETE CAST AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
BARS IN SLABS	3/4"

8. **PLACING EPOXY COATED REINFORCEMENT:** CONFORM TO CRSI MSP SECTION 3.6.

9. **SPLICES:** CONFORM TO ACI 301 SECTION 3.3.2.7. REFER TO TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE IN THESE DRAWINGS FOR TYPICAL REINFORCEMENT SPLICES.

10. **FIELD BENDING:** CONFORM TO ACI 301 SECTION 3.3.2.8. BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. SUBSEQUENT BENDS AND OTHER BAR SIZES REQUIRE PREHEATING. DO NOT TWIST BARS. BARS SHALL NOT BE BENT PAST 45°.

03.30.00 CAST-IN-PLACE CONCRETE

1. **REFERENCE STANDARDS:** CONFORM TO:
   1.1. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   1.2. IBC CHAPTER 19 "CONCRETE"
   1.3. ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   1.4. ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"

2. **FIELD REFERENCE:** THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL SP-15.

3. **CONCRETE MIXTURES:** CONFORM TO ACI 301 SECTION 4 AND IBC SECTION 1904.1.

4. **MATERIALS:** CONFORM TO ACI 301 SECTION 4.2.1 FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER, AND ADMIXTURES.

5. **SUBMITTALS:**

6. **MIX DESIGN REQUIREMENTS [NOTES 7.1 TO , TYPICAL UNO]**

FOOTINGS	
STRENGTH, f'_c	4,000 PSI
TEST AGE	56 DAYS
NOMINAL MAXIMUM AGGREGATE	1"
EXTERIOR SLABS ON GRADE & SIDEWALKS	
STRENGTH, f'_c	4,500 PSI
TEST AGE	28 DAYS
NOMINAL MAXIMUM AGGREGATE	1"
EXPOSURE CLASS	F2, W2
MAX W/C RATIO	0.45
AIR CONTENT	6%
INTERIOR SLABS ON GRADE	
STRENGTH, f'_c	4,000 PSI
TEST AGE	28 DAYS
NOMINAL MAXIMUM AGGREGATE	1"

7. **MIX DESIGN REQUIREMENT NOTES:**
   7.1. W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. MAXIMUM RATIOS ARE CONTROLLED BY STRENGTH NOTED IN THE TABLE OF MIX DESIGN REQUIREMENTS AND DURABILITY REQUIREMENTS GIVEN IN ACI 318 SECTION 19.3. W/C RATIOS MAY BE EXCEEDED WITH APPROVAL OF SER AS LONG AS POTENTIAL SHRINKAGE IMPACTS ARE ACCOUNTED FOR.
   7.2. CEMENTITIOUS MATERIALS:
      7.2.1. DCI ENCOURAGES THE REDUCTION OF CEMENT CONTENT AND/OR THE USE OF ALTERNATE CEMENTITIOUS MATERIALS, WHERE REQUIREMENTS OF THIS SECTION PROHIBIT INCLUSION OF ANY OF THESE MIXES, CONTACT DCI FOR FURTHER COORDINATION.
      7.2.2. CEMENTITIOUS MATERIALS SHALL CONFORM TO THE RELEVANT ASTM STANDARDS LISTED IN ACI 318 SECTION 26.4.1.1.1(A).
      7.2.3. FOR CONCRETE USED IN ELEVATED FLOORS, MINIMUM CEMENTITIOUS MATERIALS CONTENT SHALL CONFORM TO ACI 301 TABLE 4.2.1.1(B). ACCEPTANCE OF LOWER CEMENT CONTENT IS CONTINGENT ON PROVIDING SUPPORTING DATA TO THE SER FOR REVIEW AND ACCEPTANCE.
   7.3. AIR CONTENT: CONFORM TO ACI 318 SECTION 19.3.3.1. MINIMUM STANDARDS FOR EXPOSURE CLASS ARE NOTED IN THE TABLE. IF FREEZING AND THAWING CLASS IS NOT NOTED, AIR CONTENT GIVEN IS THAT REQUIRED BY THE SER. TOLERANCE IS ±1-1/2%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.
   7.4. AGGREGATES SHALL CONFORM TO ASTM C33.
   7.5. SLUMP: CONFORM TO ACI 301 SECTION 4.2.2.1. SLUMP SHALL BE DETERMINED AT POINT OF PLACEMENT.
   7.6. CHLORIDE CONTENT: CONFORM TO ACI 318 TABLE 19.3.2.1.
   7.7. NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE PLACED AT AMBIENT TEMPERATURES BELOW 50°F AT THE CONTRACTOR 'S OPTION.
   7.8. ACI 318 SECTION 19.3.1.1 EXPOSURE CLASSES SHALL BE ASSUMED TO BE F0, S0, W0, AND C0 UNLESS DIFFERENT EXPOSURE CLASSES ARE LISTED IN THE TABLE OF MIX DESIGN REQUIREMENTS THAT MODIFY THESE BASE REQUIREMENTS.

8. **STRENGTH TESTING AND ACCEPTANCE:**
   8.1. TESTING: OBTAIN SAMPLES AND CONDUCT TESTS IN ACCORDANCE WITH ACI 301 SECTION 1.7.3.3. ADDITIONAL SAMPLES MAY BE REQUIRED TO OBTAIN CONCRETE STRENGTHS AT ALTERNATE INTERVALS THAN SHOWN BELOW AND SHOULD BE STANDARD CURED PER ACI SECTION 26.5.3.2.
      8.1.1. CURE FOUR CYLINDERS FOR 28-DAY TEST AGE. TEST ONE CYLINDER AT 7 DAYS, TEST TWO CYLINDERS AT 28 DAYS, AND HOLD ONE CYLINDER IN RESERVE FOR USE AS THE ENGINEER DIRECTS. AFTER 56 DAYS, UNLESS NOTIFIED BY THE ENGINEER TO THE CONTRARY, THE RESERVE CYLINDER MAY BE DISCARDED WITHOUT BEING TESTED FOR SPECIMENS MEETING 28-DAY STRENGTH REQUIREMENTS.
      8.1.2. THE NUMBER OF CYLINDERS INDICATED ABOVE REFERENCE 6"x12" CYLINDERS. IF 4"x8" CYLINDERS ARE TO BE USED, ADDITIONAL CYLINDERS MUST BE CURED FOR TESTING OF THREE CYLINDERS AT TEST AGE PER THE TABLE OF MIX DESIGN REQUIREMENTS IN THESE GENERAL NOTES.
   8.2. ACCEPTANCE:
      8.2.1. STRENGTH IS SATISFACTORY WHEN THE AVERAGES OF ALL SETS OF THREE CONSECUTIVE TESTS EQUAL OR EXCEED THE SPECIFIED STRENGTH AND NO INDIVIDUAL TEST FALLS BELOW THE SPECIFIED STRENGTH BY MORE THAN 500 PSI.
      8.2.2. A "TEST" FOR ACCEPTANCE IS THE AVERAGE STRENGTH OF TWO 6"x12" CYLINDERS OR THREE 4"x8" CYLINDERS TESTED AT THE SPECIFIED TEST AGE.

9. **FORMWORK & RESHORING:** CONFORM TO ACI 301 SECTION 2. REMOVAL OF FORMS SHALL CONFORM TO SECTION 2.3.2 EXCEPT THE STRENGTH INDICATED IN SECTION 2.3.2.4 SHALL BE 0.75 * $f'_{c\ d}$

10. **MEASURING, MIXING, AND DELIVERY:**

1. **REFERENCE STANDARDS:** CONFORM TO:
   1.1. AISI S100 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
   1.2. AISI S202 "CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL FRAMING "
   1.3. AISI S220 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - NONSTRUCTURAL MEMBERS "
   1.4. AISI S230 "STANDARD FOR COLD-FORMED STEEL FRAMING - PRESCRIPTIVE METHOD FOR ONE- AND TWO-FAMILY DWELLINGS"
   1.5. AISI S240 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURING FRAMING "
   1.6. AWWC "WALL AND CEILING STANDARDS" SECTION 9.8 "EXTERIOR STEEL STUDS WALL SYSTEMS"
   1.7. AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL "
2. **MATERIALS:**
   2.1. STRUCTURAL SECTIONS: 54, 68 AND 97-MIL; ASTM A653, SS GRADE 50 OR ASTM A1003 GRADE 50, MIN F_y = 50 KSI, 33 AND 43-MIL; ASTM A653, SS GRADE 33 OR ASTM A1003 GRADE 33, MIN F_y = 33 KSI
   2.2. SHEET METAL SCREWS: GRABBER OR BUILDEX TEK-SELF-DRILLING, #10 SCREWS UNLESS NOTED OTHERWISE ON PLAN; ASTM C1513 OR SER APPROVED ALTERNATE
   2.3. FASTENERS TO STEEL: HILTI X-U 0.157" DIAMETER POWER ACTUATED FASTENERS - ICC-ESR 2269
   2.4. FASTENERS TO CONCRETE: HILTI X-U 0.157" DIAMETER POWER ACTUATED FASTENERS WITH 3/4 " EMBEDMENT - ICC-ESR 2269
   2.5. WELD MATERIAL: E60XX ELECTRODES CONFORMING TO AWS D1.3
3. **SIZE AND PROFILE:** COLD-FORMED STEEL FRAMING MEMBERS SHALL BE AS SPECIFIED BY THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) ICC-ESR 3064P AND OF THE SIZE AND PROFILE AS SHOWN ON THE DRAWINGS. ALTERNATE MEMBERS EQUIVALENT IN SHAPE, SIZE, AND STRENGTH BY MANUFACTURERS NOT MEMBERS OF THE SSMA SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER.
4. **CONNECTORS AND FASTENERS:** CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER 'S INSTRUCTIONS. ALL SCREWS SHALL BE SNUG WITH STEEL SURFACE AND SCREWS SHALL PENETRATE INTO STEEL STUDS BY A MINIMUM OF THREE EXPOSED THREADS. CONNECTIONS SHALL NOT BE STRIPPED. SCREWS SHALL BE INSTALLED A MINIMUM OF 3/8" FROM STEEL EDGES AND NO LESS THAN 3/4 " OC.
   4.1. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE HALF OF THE SCREWS IN EACH MEMBER.
   4.2. WHEN FASTENING TO STEEL, POWDER ACTUATED FASTENERS SHALL BE INSTALLED A MINIMUM OF 1/2 " FROM STEEL EDGES AND AT NO LESS THAN 1 " OC.
   4.3. WHEN FASTENING TO CONCRETE, POWDER ACTUATED FASTENERS SHALL BE INSTALLED A MINIMUM OF 3 " FROM CONCRETE EDGES AND AT NO LESS THAN 4 " OC.
   4.4. POWDER ACTUATED FASTENERS SHALL NOT BE USED FOR HANGING APPLICATIONS.
5. **MEMBER CONDITION:** ALL STRUCTURAL COLD-FORMED FRAMING MEMBERS MUST BE IN GOOD CONDITION. DAMAGED MEMBERS, MEMBERS WITH CRACKING IN THE STEEL AT THE BEND RADIUS LOCATIONS, AND MEMBERS WITH SIGNIFICANT RED RUSTING OR SCALING OF THE PROTECTIVE COATING ARE UNACCEPTABLE AND MUST BE REPLACED UNLESS APPROVED BY THE SER. HANDLING AND LIFTING OF PREFABRICATED PANELS SHALL NOT CAUSE PERMANENT DISTORTION TO ANY MEMBER OR COLLATERAL MATERIAL. MEMBERS NOT MEETING TOLERANCES LISTED BELOW SHALL BE REPLACED PRIOR TO LOADING.
6. **FULL-HEIGHT NON-LOAD-BEARING STUD WALLS:** FULL HEIGHT STUD WALLS SHALL BE ATTACHED TO CONCRETE SLABS ABOVE WITH DEFLECTION TRACK TO ALLOW FOR DIFFERENTIAL VERTICAL FLOOR DEFLECTIONS UNDER LIVE LOADS. MAINTAIN 3/4" GAP BETWEEN TOP OF STUDS AND SLAB UNLESS NOTED OTHERWISE ON PLAN.
7. **ERECTION AND TOLERANCES:** AXIAL LOAD BEARING COLD-FORMED STEEL FRAMING SHALL BE ERECTED TRUE AND PLUMB PER THE REQUIREMENTS AND WITHIN THE SPECIFIED TOLERANCES LISTED BELOW. FOR PURPOSES OF THIS SECTION, CAMBER IS DEFINED AS THE DEVIATION FROM STRAIGHTNESS OF A MEMBER OR ANY PORTION OF A MEMBER WITH RESPECT TO ITS MAJOR AXIS, AND SWEEP IS DEFINED AS THE DEVIATION FROM STRAIGHTNESS OF A MEMBER OR ANY PORTION OF A MEMBER WITH RESPECT TO ITS MINOR AXIS.
   7.1. FOR JOISTS, TRACK, AND AXIAL LOAD BEARING STUDS, OUT OF PLUMBNESS AND OUT OF STRAIGHTNESS (CAMBER AND SWEEP) SHALL NOT EXCEED 1/1000TH OF THE MEMBER LENGTH (1/8 " OVER 10').
   7.2. ERECT FRAMING IN ACCORDANCE WITH MANUFACTURER 'S INSTRUCTION AND SHOP DRAWINGS.
   7.3. STUDS SHALL SEAT INTO TOP AND BOTTOM TRACKS. THE GAP BETWEEN THE END OF THE STUD AND THE WEB OF THE TRACK SHALL NOT EXCEED 1/16" FOR AXIAL LOAD BEARING STUDS.
   7.4. JOISTS AND END STIFFENERS SHALL BE LOCATED DIRECTLY OVER AXIAL LOAD BEARING STUDS. THE USE OF TRACK AS A LOAD DISTRIBUTION MEMBER IS NOT PERMITTED.
8. **FIELD CUTS AND NOTCHES:** FIELD CUTS AND NOTCHES OF ANY KIND (INCLUDING WIDENING PRE-PUNCHED HOLES) ARE NOT ALLOWED IN ANY STRUCTURAL COLD-FORMED STEEL MEMBER WITHOUT PRIOR APPROVAL FROM THE SER.
9. **PERMANENT WALL BRACING AND BRIDGING:** DOUBLE FLAT STRAP OR CHANNEL BRIDGING AS SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE INSTALLED AT 6' OC MAXIMUM UNLESS NOTED OTHERWISE, AND ADEQUATELY BRACED PRIOR TO LOADING STUDS. BRIDGING ANCHORAGE DESIGN TO BE BASED ON "ALL STEEL DESIGN" (MECHANICALLY BRACED) OR "SHEATHING BRACED DESIGN" PER AISI S240. REFERENCE THE FLOOR FRAMING PLAN NOTES IN THE DRAWINGS FOR TYPE OF DESIGN USED ON THAT FLOOR.
10. **TEMPORARY BRACING:** REFERENCE TEMPORARY SHORING AND BRACING SECTION OF THESE GENERAL NOTES.

50.00.00 SPECIAL INSPECTIONS

1. THE FOLLOWING STATEMENT AND SCHEDULES OF INSPECTIONS ARE THOSE SPECIAL INSPECTIONS AND TESTS THAT SHALL BE PERFORMED FOR THIS PROJECT. SPECIAL INSPECTORS SHALL REFERENCE THESE PLANS AND IBC CHAPTER 17 FOR ALL SPECIAL INSPECTION REQUIREMENTS. THE OWNER SHALL RETAIN AN "APPROVED AGENCY" PER IBC SECTION 1703 TO PROVIDE SPECIAL INSPECTIONS FOR THIS PROJECT. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS PER IBC SECTION 1704.2.4. SPECIAL INSPECTION REPORTS SHALL BE PROVIDED ON A WEEKLY BASIS. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION FOR REVIEW. IN ADDITION TO SPECIAL INSPECTION REPORTS AND TESTS, SUBMIT REPORTS AND CERTIFICATES NOTED IN IBC SECTION 1704.5 TO THE AUTHORITY HAVING JURISDICTION. FINAL SPECIAL INSPECTION REPORTS WILL BE REQUIRED BY EACH SPECIAL INSPECTION FIRM PER IBC SECTION 1704.2.4.
2. **STATEMENT OF SPECIAL INSPECTIONS:**
   2.1. THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN WRITTEN WITH THE UNDERSTANDING THAT THE BUILDING OFFICIAL WILL:
      2.1.1. REVIEW AND APPROVE THE QUALIFICATIONS OF THE SPECIAL INSPECTOR.
      2.1.2. MONITOR THE SPECIAL INSPECTION ACTIVITY ON THE PROJECT SITE TO ENSURE THAT SPECIAL INSPECTORS ARE QUALIFIED AND PERFORMING THEIR DUTY AS STATED WITHIN THIS STATEMENT.
      2.1.3. REVIEW ALL SPECIAL INSPECTION REPORTS SUBMITTED TO THEM BY THE SPECIAL INSPECTOR.
      2.1.4. PERFORM INSPECTIONS AS REQUIRED BY IBC SECTION 110.3.
   2.2. THE FOLLOWING SPECIAL INSPECTIONS ARE APPLICABLE TO THIS PROJECT:

SPECIAL INSPECTIONS FOR STANDARD BUILDINGS (PER IBC SECTION 1705.1)	REQUIRED
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (PER IBC SECTION 1705.13)	NOT REQUIRED
	REQUIRED
TESTING FOR SEISMIC RESISTANCE (PER IBC SECTION 1705.14)	NOT REQUIRED
	REQUIRED
SPECIAL INSPECTIONS FOR WIND RESISTANCE (PER IBC SECTION 1705.12)	NOT REQUIRED

3. **SCHEDULES OF SPECIAL INSPECTIONS:**
   3.1. **TABLE 1705.3 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION**

NO.	SPECIAL INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD
1	INSPECT REINFORCEMENT AND VERIFY PLACEMENT	-	X	ACI 318 CHAPTER 20 ACI 318 SECTIONS 25.2, 25.3, & 26.6.1-26.6.3
2	REINFORCING BAR WELDING:	-	-	-
2a	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D1.4 ACI 318 SECTION 26.6.4
2b	INSPECT SINGLE PASS FILLET WELD MAXIMUM 5/16"	-	X	-
2c	INSPECT ALL OTHER WELDS	X	-	-
4	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:	-	-	-
4a	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318 SECTION 17.8.2.4
4b	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a	-	X	ACI 318 SECTION 17.8.2
5	VERIFY USE OF REQUIRED DESIGN MIX	-	X	ACI 318 CHAPTER 19 ACI SECTIONS 26.4.3 & 26.4.4 IBC SECTION 1904.1, 1904.2
6	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C172 & C31 ACI 318 SECTIONS 26.5 & 26.12
7	INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318 SECTION 26.5
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318 SECTIONS 26.5.3-26.5.5
14	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318 SECTION 26.11.1.2(B)

   3.2. **MINIMUM REQUIREMENTS FOR INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION**

NO.	SPECIAL INSPECTION	QC	QA	REFERENCE STANDARD
	INSPECTION TASKS PRIOR TO WELDING			
1	WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O	AISC 360 TABLE N5.4-1
2	WELDING PROCEDURE SPECIFICATIONS (WPS'S) AVAILABLE	P	P	AISC 360 TABLE N5.4-1
3	MANUFACTURING CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P	AISC 360 TABLE N5.4-1
4	MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	AISC 360 TABLE N5.4-1
5	WELDER IDENTIFICATION SYSTEM	O	O	AISC 360 TABLE N5.4-1
	6	O	O	AISC 360 TABLE N5.4-1
	7	P	O	AISC 360 TABLE N5.4-1
8	CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	AISC 360 TABLE N5.4-1
9	FIT-UP OF FILLET WELDS	O	O	AISC 360 TABLE N5.4-1
	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)			
	CLEANLINESS (CONDITION OF STEEL SURFACES)			
	TACKING (TACK WELDING QUALITY AND LOCATION)			
10	CHECK WELDING EQUIPMENT	O	-	AISC 360 TABLE N5.4-1
	INSPECTION TASKS DURING WELDING			
1	USE OF QUALIFIED WELDERS	O	O	AISC 360 TABLE N5.4-2
2	CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	AISC 360 TABLE N5.4-2
	PACKAGING			
	EXPOSURE CONTROL			
3	NO WELDING OVER CRACKED TACK WELDS	O	O	AISC 360 TABLE N5.4-2
4	ENVIRONMENTAL CONDITIONS	O	O	AISC 360 TABLE N5.4-2
	WIND SPEED WITHIN LIMITS			
	PRECIPITATION AND TEMPERATURE			
5	WPS FOLLOWED	O	O	AISC 360 TABLE N5.4-2
	SETTINGS ON WELDING EQUIPMENT			
	TRAVEL SPEED			
	SELECTED WELDING MATERIALS			
	SHIELDING GAS TYPE/ FLOWRATE			
	PREHEAT APPLIED			
	INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)			
	PROPER POSITION (F, V, H, OH)			
6	WELDING TECHNIQUES	O	O	AISC 360 TABLE N5.4-2
	INTERPASS AND FINAL CLEANING			
	EACH PASS WITHIN PROFILE			
	EACH PASS MEETS QUALITY REQUIREMENTS			
	INSPECTION TASKS AFTER WELDING			
1	WELDS CLEANED	O	O	AISC 360 TABLE N5.4-3
2	SIZE, LENGTH, AND LOCATIONS OF WELDS	P	P	AISC 360 TABLE N5.4-3
3	WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P	AISC 360 TABLE N5.4-3
	CRACK PROHIBITION			
	WELD/BASE-METAL FUSION			
	CRATER CROSS SECTION			
	WELD PROFILES			
	WELD SIZE			
	UNDERCUT			
	POROSITY			
4	ARC STRIKES	P	P	AISC 360 TABLE N5.4-3
5	K-AREA	P	P	AISC 360 TABLE N5.4-3
6	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	P	P	AISC 360 TABLE N5.4-3
7	BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	AISC 360 TABLE N5.4-3
8	REPAIR ACTIVITIES	P	P	AISC 360 TABLE N5.4-3
9	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	AISC 360 TABLE N5.4-3
10	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	P	P	AISC 360 TABLE N5.4-3
	INSPECTION TASKS PRIOR TO BOLTING			
1	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	AISC 360 TABLE N5.6-1
2	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	AISC 360 TABLE N5.6-1
3	CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O	AISC 360 TABLE N5.6-1
4	CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	AISC 360 TABLE N5.6-1
5	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	AISC 360 TABLE N5.6-1
6	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O	AISC 360 TABLE N5.6-1
7	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENERS COMPONENTS	O	O	AISC 360 TABLE N5.6-1
	INSPECTION TASKS DURING BOLTING			
1	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED	O	O	AISC 360 TABLE N5.6-2
2	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION	O	O	AISC 360 TABLE N5.6-2
3	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	AISC 360 TABLE N5.6-2
4	FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O	AISC 360 TABLE N5.6-2
	INSPECTION TASKS AFTER BOLTING			
1	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	P	P	AISC 360 TABLE N5.6-3
	INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT			
1	PLACEMENT AND INSTALLATION OF STEEL DECK	P	P	AISC 360 TABLE N6.1
2	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P	AISC 360 TABLE N6.1
3	DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	P	P	AISC 360 TABLE N6.1

   3.2.1. (O) - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS
   3.2.2. (P) - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, EACH BOLTED CONNECTION, OR EACH STEEL ELEMENT

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GENERAL NOTES AND SCHEDULE OF SPECIAL INSPECTIONS

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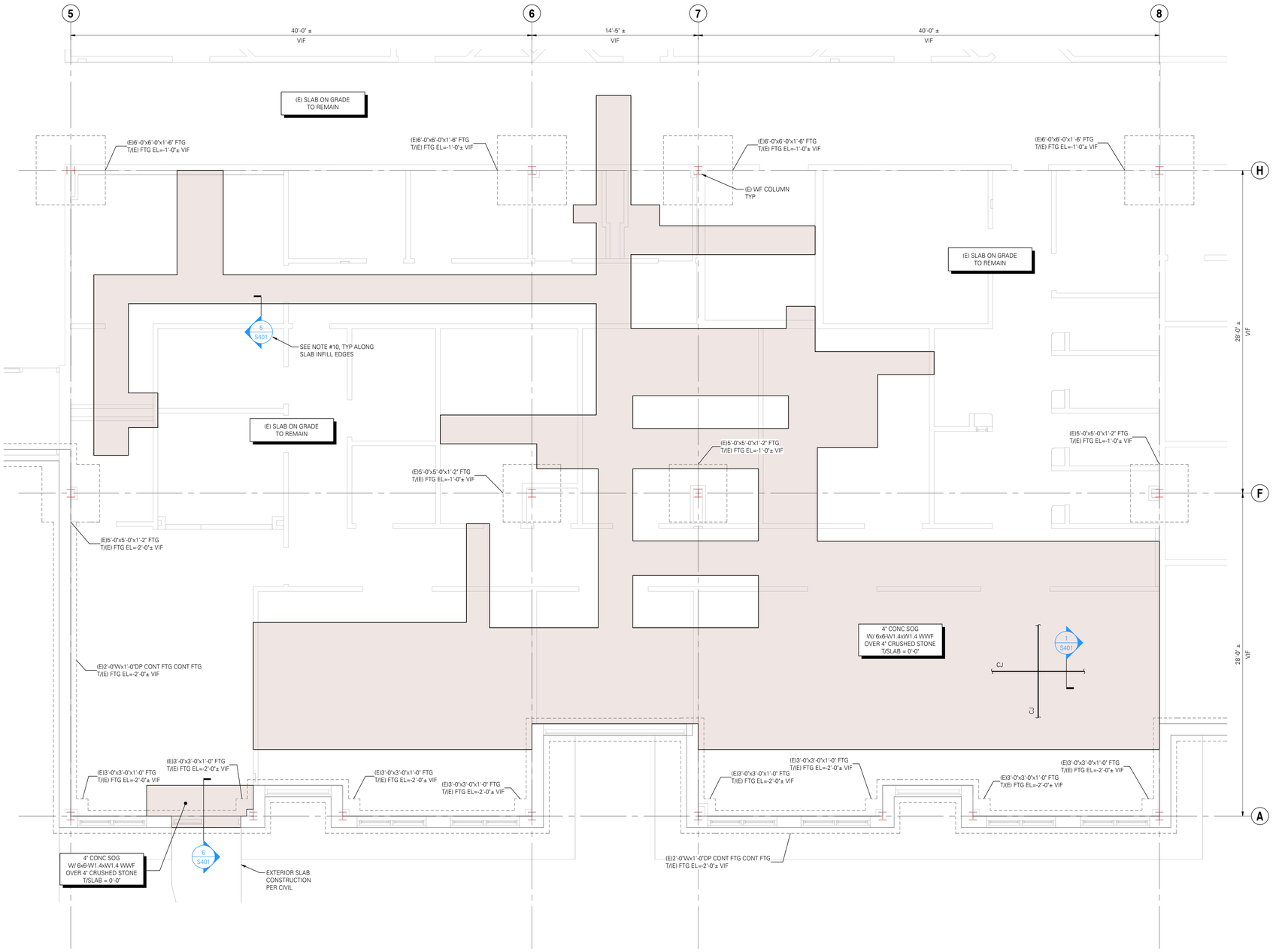
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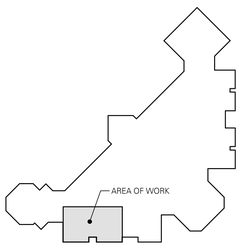
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KEY PLAN

FOUNDATION PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S000 SERIES.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR PLUMBING. ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
4. TOP OF NEW INFILL SLAB ON GRADE ELEVATION TO MATCH TOP OF EXISTING SLAB ON GRADE ELEVATION, VERIFY IN FIELD AS NEEDED.
5. TOP OF EXISTING FOOTING (T/FTG) ELEVATION BELOW DATUM ELEVATION =0'-0" PER PLAN. SEE PLAN FOR ANTICIPATED SIZE AND TOP OF EXISTING FOOTING ELEVATION. CONTRACTOR TO VERIFY IN FIELD AS NEEDED.
6. PROVIDE CORNER BARS AT ALL RE-ENTRANT CORNER CONDITIONS IN SOG. REFER TO TYPICAL DETAIL 4/S401 .
7. PROVIDE DOWELS ALONG ALL SLAB INFILL EDGES. FOR ADDITIONAL INFORMATION SEE TYPICAL DETAIL 5/S401 .
8. SLAB INFILL AREA SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL TRENCHED INFORMATION MAY VARY DEPENDING ON CONTRACTORS NEEDS TO INSTALL PIPING.
9. CONTRACTOR TO PERFORM COST ESTIMATE ANALYSIS FOR REMOVAL AND REPLACEMENT OF ENTIRE SLAB ON GRADE.
10. MOISTURE AND WATERPROOFING PER ARCHITECTURAL DRAWINGS.
11. TYPICAL FOUNDATION DETAILS PER S400 SERIES.

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

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FOUNDATION PLAN

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PLAN NORTH

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Sheet **S101**

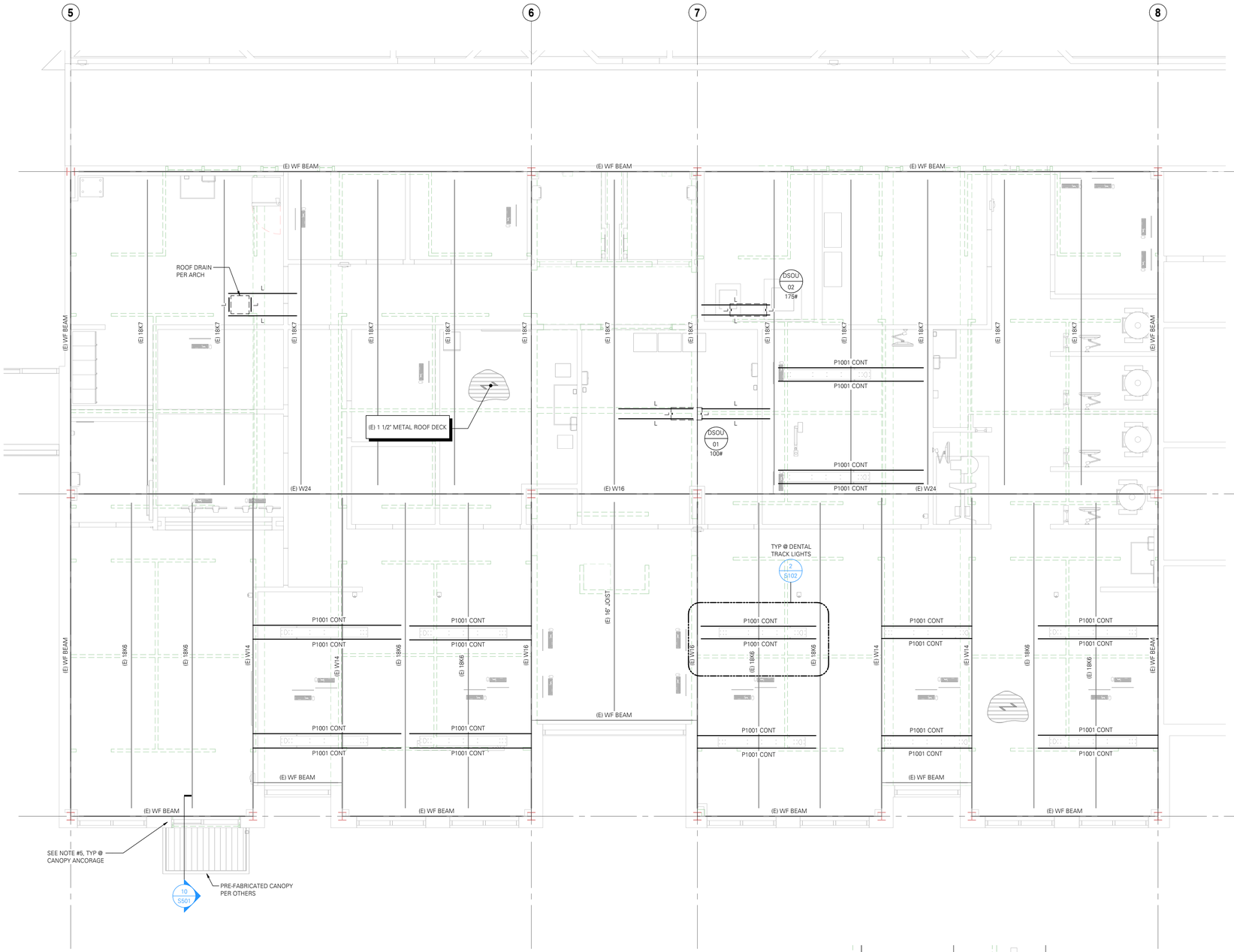
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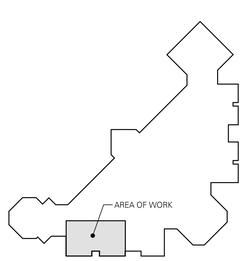
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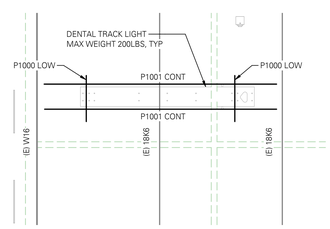
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KEY PLAN



2 ENLARGED TRACK LIGHT FRAMING PLAN
SCALE: 3/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S000 SERIES.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. 'L' INDICATES ROOF CURB SUPPORT OR DECK PENETRATION SUPPORT ANGLE. FOR ADDITIONAL INFORMATION, REFER TO DETAIL[S] 1/S501 , 3/S501 & 4/S501 .
5. PROVIDE (3) 600S200-68 JAMB STUDS AT PREFABRICATED CANOPY ANCHORAGE LOCATIONS. COORDINATE EXACT LOCATION OF JAMB STUDS WITH ARCHITECTURAL DRAWINGS AND CANOPY MANUFACTURER.
6. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
7. PROVIDE (3) 14 GAGE BUNDLED JAMB STUDS AT ALL WALL MOUNTED TELESCOPING EQUIPMENT. FASTEN TO WALL PER MANUFACTURER SPECIFICATIONS.
8. TYPICAL FRAMING DETAILS PER S500 SERIES.

ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

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ROOF FRAMING PLAN

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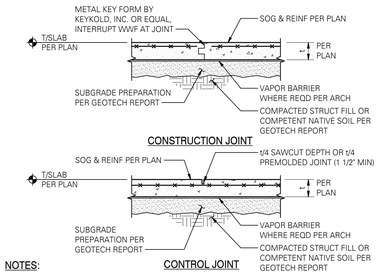
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NOTES:

1. CONSTRUCTION JOINT IS A JOINT BETWEEN DIFFERENT POURS. CONTROL JOINT IS A CRACK CONTROL JOINT WITHIN THE SAME POUR.

2. USE "EARLY ENTRY DRY-CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.

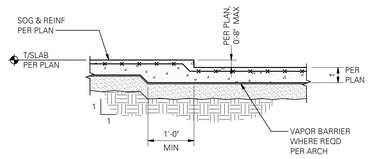
3. ALIGN A CONSTRUCTION OR CONTROL JOINT WITH RE-ENTRANT SLAB CORNERS, EACH WAY, TYPICAL.

4. CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS 225 SQUARE FEET MAXIMUM, WITH MAXIMUM PANEL ASPECT RATIO OF 1.3 TO 1.0.

5. CONTRACTOR TO SUBMIT CONSTRUCTION/CONTROL JOINT PLAN TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW/APPROVAL.

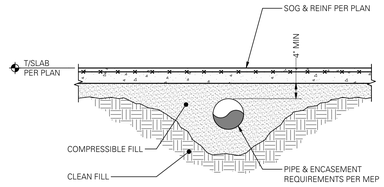
1 TYPICAL SLAB ON GRADE JOINT DETAILS WITH WWF REINFORCING

SCALE: 3/4" = 1'-0" (03201-MID)



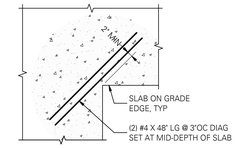
2 TYPICAL DEPRESSED SLAB DETAIL

SCALE: 3/4" = 1'-0" (03202-MID)



3 PIPE UNDER SLAB ON GRADE

SCALE: 3/4" = 1'-0" (03204B-MID)



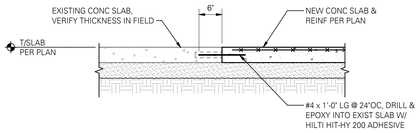
PLAN - RE-ENTRANT SLAB ON GRADE EDGE CORNER

NOTE:

CORNER BARS TO BE PROVIDED AT ALL RE-ENTRANT CORNERS IN SLABS ON GRADE.

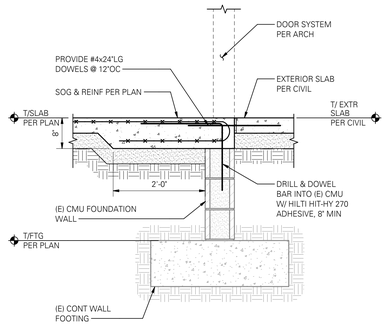
4 PLAN - TYPICAL REINFORCING AT SLAB ON GRADE EDGE CORNERS

SCALE: 1/2" = 1'-0" (03304-MID)



5 TYPICAL SLAB ON GRADE INFILL DETAIL

SCALE: 3/4" = 1'-0" (03370-MID)

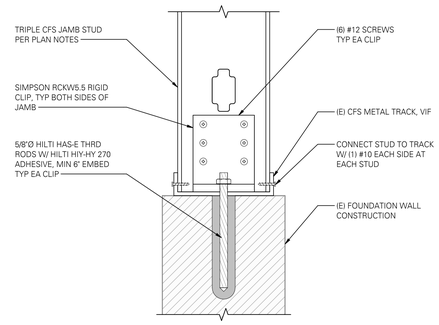


NOTE:

1.DEMO TOP OF 8" OF FOUNDATION WALL TO ALLOW SLAB TO HAUNCH OVER AS SHOWN IN DETAIL.
2.UTILIZE HILTI HIT-HY 200 ADHESIVE IF FOUNDATION WALL IS CONCRETE IN LIEU OF ANTICIPATED CMU, VIF.

6 EXTERIOR WALL FOUNDATION DETAIL W/ HAUNCHED SLAB AT OPENING & EXTERIOR CIVIL SLAB

SCALE: 3/4" = 1'-0" (04000-05-MID)



NOTE:

UTILIZE HILTI HIT-HY 200 ADHESIVE IF FOUNDATION WALL IS CONCRETE IN LIEU OF ANTICIPATED CMU, VIF

7 TYPICAL TRIPLE JAMB STUD TO FOUNDATION WALL DETAIL

SCALE: 3" = 1'-0" (07100-08A-MID_MI)

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FOUNDATION DETAILS & SECTIONS

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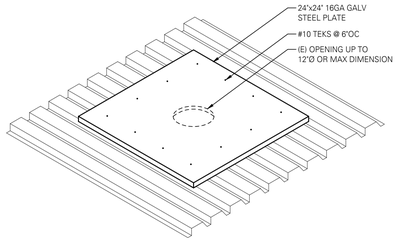
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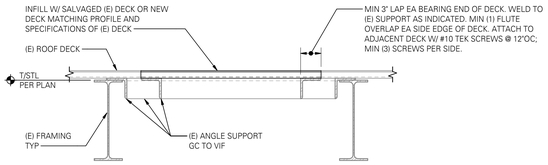
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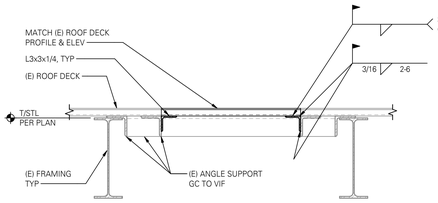


INFILL ≤ 12"



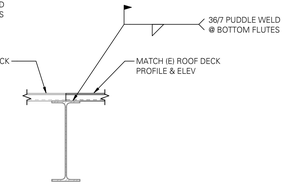
OPTION #1:

INFILL GREATER THAN 12" & EXISTING FRAMING AT PERIMETER



OPTION #2:

INFILL GREATER THAN 12" & EXISTING FRAMING AT PERIMETER

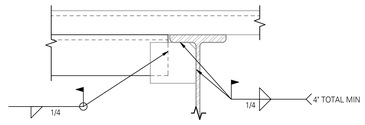


DECK ATTACHMENT AT (E) WIDE FLANGE

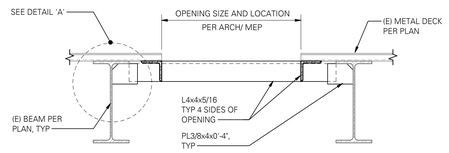
NOTE:
FOR CONDITIONS WHERE INFILL IS GREATER THAN 12", BUT EXISTING FRAMING IS NOT PRESENT AT THE PERIMETER OF THE OPENING, PROVIDE DECK SUPPORT FRAMING IN ACCORDANCE WITH (05000-05A-MID OR 05000-07A-MID)

1 TYPICAL EXISTING ROOF DECK OPENING INFILL DETAIL

SCALE: 1" = 1'-0" (05000-04-MID)



DETAIL 'A'

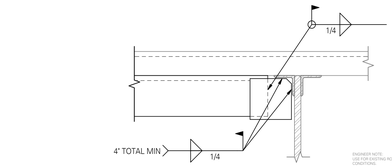


NOTE:
1. PROVIDE AT PERIMETER OF ALL ROOFTOP MECHANICAL UNITS AND ROOF OPENINGS LARGER THAN 12" SQ. AS REQUIRED. PROVIDE L3X3X5/16 AT ROOF SUMPS.

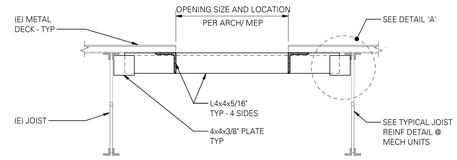
ENGINEER NOTE:
USE FOR EXISTING ROOF FRAMING CONDITIONS.

3 TYPICAL ROOF CURB SUPPORT DETAIL AT EXISTING WIDE FLANGE BEAMS

SCALE: 1" = 1'-0" (05000-05A-MID)



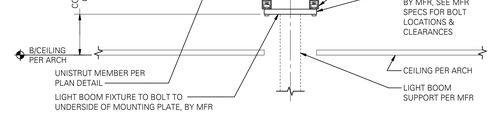
DETAIL 'A'



NOTE: PROVIDE AT PERIMETER OF ALL ROOFTOP MECHANICAL UNITS AND ROOF OPENINGS LARGER THAN 12" SQ. AS REQUIRED. (PROVIDE L3X3X5/16 AT ROOF SUMPS)

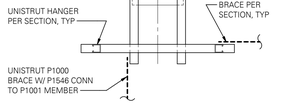
4 TYPICAL ROOF CURB SUPPORT DETAIL AT EXISTING JOISTS

SCALE: 1" = 1'-0" (05000-07A-MID)



SECTION VIEW: LIGHT BOOM HANGER ASSEMBLY

NOTE: COORDINATE ALL MED GAS AND OTHER MEP LINES AT BOOM LOCATIONS WITH MECHANICAL/ ELECTRICAL DRAWINGS.



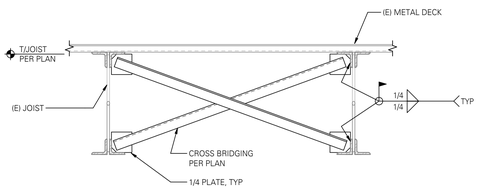
PLAN VIEW Y-Y: LIGHT BOOM MOUNTING PLATE

NOTE: FINAL SIZING & LAYOUT TO BE COORDINATED WITH FINAL ASSEMBLY CUT SHEETS.

NOTE:
ALL STRUT NUTS, BOLTS, AND FITTINGS TO BE PROVIDED BY MANUFACTURER.

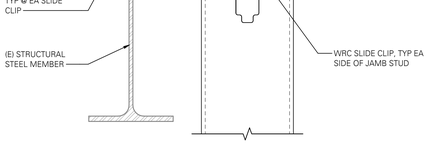
5 LIGHT BOOM UNISTRUT SUPPORT

SCALE: 1" = 1'-0" (TI-05001-MID)



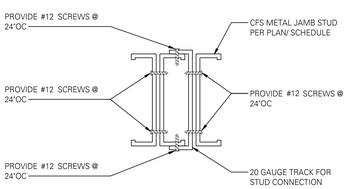
7 TYPICAL CROSS BRIDGING DETAIL AT EXISTING JOISTS

SCALE: 1" = 1'-0" (05000-97A-MID)



8 07100-10E-MID_M

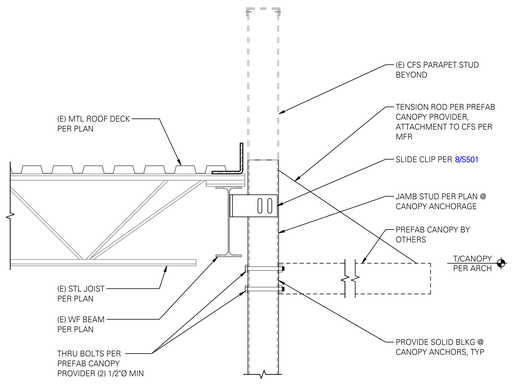
SCALE: 3" = 1'-0" (07100-10E-MID_M)



TYPICAL JAMB STUD CONNECTION

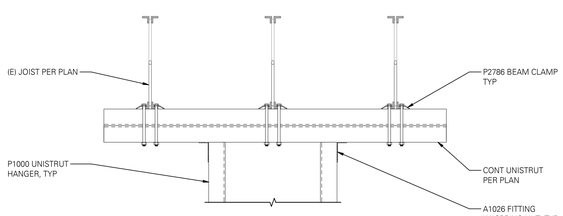
9 07100-30-MID

SCALE: 3" = 1'-0" (07100-30-MID)



10 CONNECTION AT PREFABRICATED CANOPY

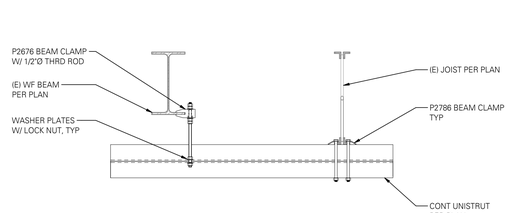
SCALE: 1" = 1'-0"



NOTE:
FOR BOTTOM OF UNISTRUT FRAMING INFORMATION, SEE DETAIL 5/S501.

11 TYPICAL CONTINUOUS HIGH UNISTRUT SUPPORT DETAIL (WHEN SUPPORTED FROM SAME DEPTH JOISTS)

SCALE: 1" = 1'-0"



NOTE:
WHEN UNISTRUT ONLY HANG FROM SAME DEPTH WF BEAMS, UTILIZE P2786 BEAM CLAMP PER DETAIL 11/S501 .

12 TYPICAL CONTINUOUS HIGH UNISTRUT SUPPORT DETAIL (WHEN SUPPORTED FROM WF BEAM AND JOIST)

SCALE: 1" = 1'-0"

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FRAMING DETAILS & SECTIONS

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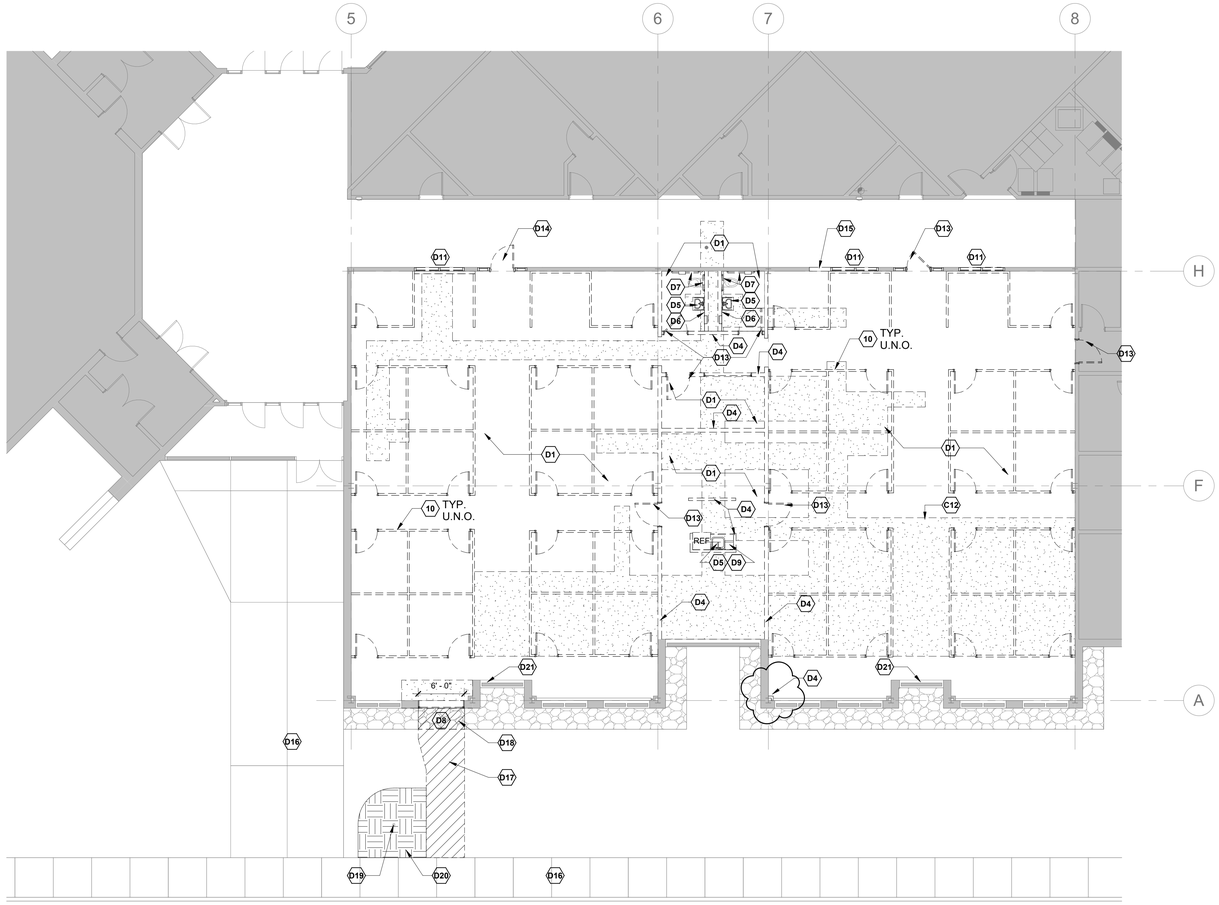
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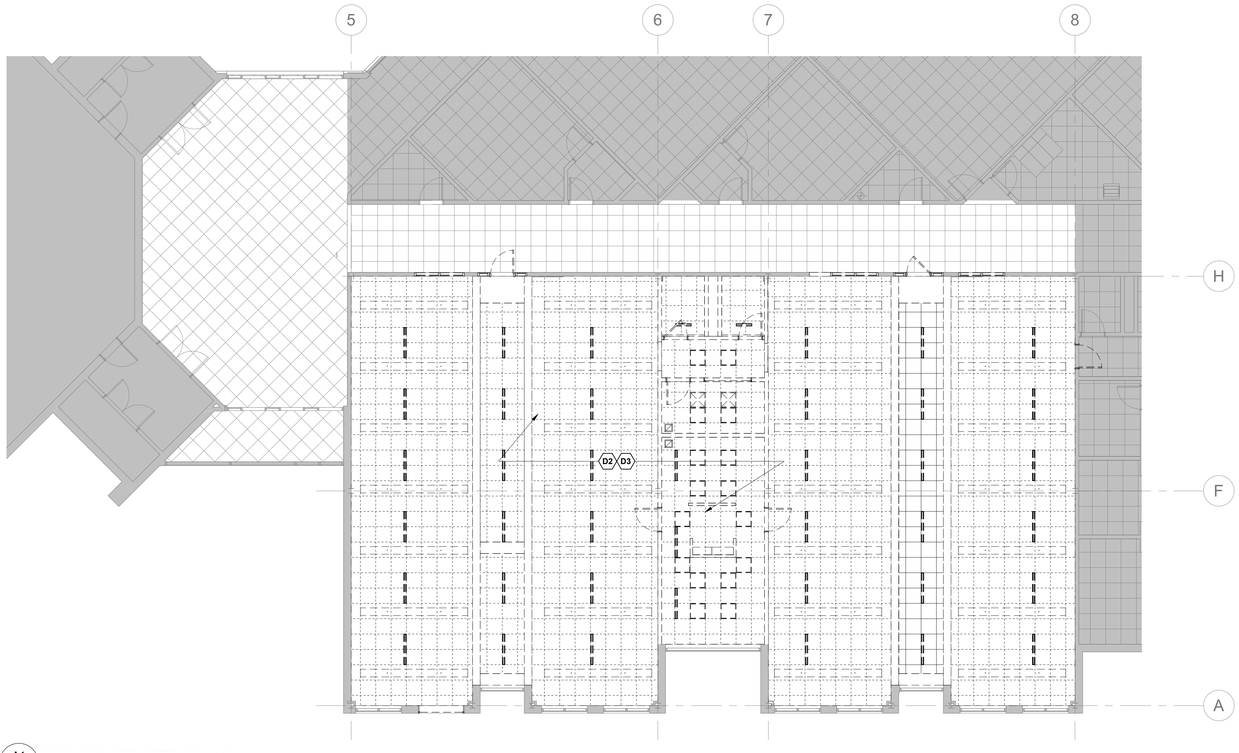
DCI PROJECT: 26181-0175
CONTACT: R. SAVONA

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Date	10/15/2026
Scale	As indicated
Drawn	JPA
Checked	RMS
Approved	STK
Project	25040
Sheet	S501



B1 AD100 **DEMOLITION FLOOR PLAN**
Scale : 1/8" = 1'-0"



A1 AD100 **DEMOLITION REFLECTED CEILING PLAN**
Scale : 1/8" = 1'-0"

DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- CONSTRUCTION TO BE REMOVED
- REMOVE DOOR AND FRAME (U.N.O.) TURN ALL HARDWARE OVER TO OWNER
- EXISTING DOOR TO REMAIN

DEMOLITION KEY NOTES

D1 REMOVE FINISH FLOOR TO SUBFLOOR BELOW. SALVAGE ALL CARPET SUITABLE FOR REUSE IN OTHER AREAS. REMOVAL TO INCLUDE ADHESIVES, GROUTING BEDS, AND PREPARING SUBFLOOR FOR NEW CONSTRUCTION.

D2 REMOVE ACOUSTICAL CEILING TILE AND GRID, BULKHEADS, AND SOFFITS. COORDINATE REMOVAL WITH OTHER TRADES.

D3 REMOVE EXISTING LIGHT FIXTURES. COORDINATE WITH MEP.

D4 REMOVE EXISTING INTERIOR PARTITIONS. REMOVAL TO INCLUDE MEP WIRING, PIPING, AND DEVICES SERVING FIXTURES IN OR ON THE WALL.

D5 REMOVE PLUMBING FIXTURE. COORDINATE WITH MEP.

D6 REMOVE EXISTING WALL TILE AND COVE BASE. REMOVAL TO INCLUDE ADHESIVES, GROUTING BEDS, AND PREPARING WALLS FOR NEW CONSTRUCTION.

D7 REMOVE GRAB BARS.

D8 REMOVE WINDOW AND PORTION OF THE WALL BELOW TO INSTALL NEW DOOR AND FRAME.

D9 REMOVE CASEWORK. PREPARE ANY EXISTING TO REMAIN WALLS FOR NEW WORK.

D10 REMOVE SYSTEMS FURNITURE. BY OWNER

D11 REMOVE EXISTING WINDOW. PREPARE OPENING TO BE INFILLED.

D12 SAW CUT EXISTING CONCRETE SLAB AS REQUIRED TO RUN NEW PIPING AND ELECTRICAL RUNS. SEE MEP AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

D13 REMOVE EXISTING WOOD DOOR, HOLLOW METAL FRAME AND DOOR HARDWARE IN IT'S ENTIRETY. TYPICAL UNLESS NOTED OTHERWISE.

D14 REMOVE EXISTING WOOD DOOR, HOLLOW METAL FRAME AND DOOR HARDWARE. PREPARE OPENING TO BE INFILLED.

D15 REMOVE PORTION OF EXISTING WALL AS REQUIRED TO INSTALL NEW DOOR AND FRAME. SEE NEW CONSTRUCTION PLAN FOR ADDITIONAL INFORMATION

D16 EXISTING SIDEWALK TO REMAIN

D17 EXCAVATE PORTION OF EXISTING SITE FOR NEW SIDEWALK AND STONE BASE.

D18 AT AREA OF EXISTING RIVERSTONE BED AND METAL TRIM, REMOVE STONE AND TRIM AND EXCAVATE BELOW FOR NEW SIDEWALK AND STONE BASE.

D19 EXISTING AREA LIGHT TO REMAIN

D20 EXISTING MULCH BED TO REMAIN

D21 REMOVE PORTION OF EXISTING BASEBOARD HEATER. PATCH AND REPAIR EXISTING WALL TO REMAIN.

DEMOLITION PLAN GENERAL NOTES

A. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND PROMPTLY NOTIFY THE OWNER AND THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.

B. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE QUALITY OF WORK FOR ALL SUBCONTRACTORS AND SHALL COORDINATE THE TIMELY COMPLETION OF ALL DEMOLITION WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

C. THE GENERAL CONTRACTOR SHALL REMOVE COMPLETELY FROM THE SITE AND PROPERLY DISPOSE OF ALL DEMOLITION SPOILS AND SHALL MAINTAIN A CLEAN AND SAFE WORK SITE AT ALL TIMES. DUMPSTER LOCATION TO BE COORDINATED WITH THE OWNER AND THE ARCHITECT. THE GENERAL CONTRACTOR SHALL PROPOSE A RECYCLING STRATEGY FOR APPROVAL.

D. PARTITIONS, WALLS AND OTHER ITEMS TO BE REMOVED ARE SHOWN DASHED. EXCEPT WHERE NOTED OTHERWISE, REMOVE PARTITION OR WALL IN ITS ENTIRETY. FROM FLOOR TO FLOOR OR ROOF STRUCTURE ABOVE. REMOVE ALL EQUIPMENT, FURNISHINGS AND ACCESSORIES ON THE PARTITION OR WALL. EDGES OF WALLS TO REMAIN SHALL BE CLEANLY PREPARED TO ACCEPT NEW CONSTRUCTION. REPAIR AND PATCH EXISTING WALLS OR PARTITIONS TO REMAIN WHERE EXISTING INTERSECTING PARTITIONS, WINDOWS, DOORS, FRAMES, ETC. ARE TO BE REMOVED AND WHERE EXISTING CONSTRUCTION WILL NOT BE COVERED UP WITH NEW CONSTRUCTION. PERFORM DEMOLITION TO EXTENT NECESSARY TO ALLOW FOR NEW CONSTRUCTION.

E. EXISTING CONSTRUCTION TO REMAIN, INCLUDING BUT NOT LIMITED TO PARTITIONS, FIXTURES, DOORS, FRAMES, ETC. AND SHALL BE PROTECTED FROM COLLATERAL DAMAGE DURING DEMOLITION. DAMAGE TO EXISTING CONSTRUCTION TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CLIENT, USING AGENT OR PROFESSIONAL.

F. PATCH WORK, INFILL, OR REPLACEMENT WORK IS TO MATCH EXISTING CONDITIONS IN TERMS OF MATERIALS, CONSTRUCTION, COLOR, TEXTURE AND PLANE. FINISH TO MATCH ADJACENT EXISTING CONSTRUCTION WHERE EXPOSED TO VIEW (I.E. NOT COVERED UP BY NEW PARTITION OR NEW FURRING SYSTEM). PREPARE SUBSTRATE FOR NEW FINISH WHERE NEW FINISH IS SCHEDULED. AT PLASTER PATCH WORK, BLEND PATCH WITH EXISTING PLASTER CONSTRUCTION TO REMAIN SO THAT THE PLASTER PATCH WORK IS NOT VISUALLY DISTINGUISHABLE AFTER SCHEDULED FINISH (I.E. PAINTING) IS APPLIED. AT MASONRY INFILL, TOOTH-IN INFILL WITH MATCHING MASONRY. AT CONCRETE FLOOR INFILL, MATCH ADJACENT CONCRETE FLOOR ELEVATION AND FINISH TEXTURE, SEAL NEW CONCRETE WITH EMBEDDED REINFORCING AND DOWELING. CONTRACTOR IS TO PROVIDE WORK AND INFILL AS REQUIRED.

G. SALVAGE MATERIAL FOR PATCHING AND INFILLING. SEE PROFESSIONAL'S DRAWINGS FOR NEW WORK OR WHERE SALVAGED MATERIAL IS TO BE REUSED. SALVAGED MATERIAL SHALL BE CLEANED AND STORED IN APPROPRIATE AREAS AWAY FROM THE DEMOLITION OR UNTIL NEEDED.

H. WHERE FINISHES, ADHESIVES, ETC. ARE TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN (E.G. FLOORS, CEILINGS, WALLS, ETC.), PATCH REMAINING SUBSTRATE FOR NEW FINISH.

I. FOR ALL EXISTING GYPSUM BOARD WALLS, PREPARE AS NECESSARY TO ALLOW FOR NEW PAINT WORK.

J. THE GENERAL CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES FOR EQUIPMENT AND SYSTEMS REMOVAL.

K. THE GENERAL CONTRACTOR TO COORDINATE WITH ASBESTOS ABATEMENT CONTRACTOR FOR SCHEDULE, ACCESS REQUIREMENTS & ANY POSSIBLE CONFLICTS.

L. REMOVE FIRE EXTINGUISHER & ALL RELATED HARDWARE/ACCESSORIES. SURFACES TO BE MADE READY FOR NEW CONSTRUCTION. EXTINGUISHER TO BE TURNED OVER.

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DEMOLITION PLANS

BID SET

PLAN NORTH

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Project	25040
Sheet	AD100

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A1 / A101 **FIRST FLOOR - NEW WORK**
Scale : 1/4" = 1'-0"

SHEET LEGEND

- EXISTING WALL PARTITION
- NEW PARTITION - SEE SHEET A531 FOR PARTITION TYPES
- NEW CMU PARTITION

GENERAL SHEET NOTES

A. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH WORK.

B. ALL MASONRY WALLS ARE DIMENSIONED TO FACE OF PARTITION OR OPENING.

C. ALL INTERIOR STUD PARTITIONS ARE DIMENSIONED TO THE FACE OF STUD(UNLESS OTHERWISE NOTED).

D. EXTERIOR WALLS ARE DIMENSIONED TO THE OUTSIDE FACE (UNLESS OTHERWISE NOTED).

E. TOOTH ALL NEW MASONRY INTO EXISTING TO CREATE UNIFORM APPEARANCE (UNLESS OTHERWISE NOTED).

F. SEAL ALL PENETRATIONS THRU RATED PARTITIONS AND FLOOR SLABS WITH FIRE SAFING INSULATION AND SEALANT AS REQUIRED TO MAINTAIN RATED SEPARATION.

G. SEE GENERAL NOTES & PARTITION TYPE SHEETS

(#) SHEET KEYNOTES

1. FURNISH AND INSTALL NEW 4" CONCRETE SLAB OVER 4" CRUSHED STONE BASE. #4 DOWELS @ 24" O.C. INTO EXISTING FOUNDATION WALL. INSTALL EXPANSION JOINT AT FOUNDATION WALL.
2. FURNISH AND INSTALL NEW 4" CONCRETE SLAB OVER VAPOR BARRIER AND 4" CRUSHED STONE. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. (5) 15" WIDE BY 18" DEEP TRIPLE HIGH LOCKERS BY FURNITURE VENDOR. PROVIDE BLOCKING FOR INSTALLATION.
4. INFILL EXISTING WALL OPENING WITH METAL STUDS AND GYPSUM BOARD. MATERIALS TO MATCH EXISTING THICKNESS.
5. FURNISH AND INSTALL NEW MECHO SHADE WINDOW TREATMENT. CONTRACTOR TO VERIFY ALL WINDOW WIDTHS IN FIELD PRIOR TO FABRICATION.
6. FURNISH AND INSTALL NEW ADA COMPLIANT RECESSED FIRE EXTINGUISHER CABINET.
7. FURNISH AND INSTALL NEW FLAT SCREEN TELEVISION WITH ASSOCIATED WALL MOUNT BY OTHERS. SEE ELEVATIONS AND ELECTRICAL PLANS FOR MORE INFORMATION.
8. ALUMINUM DOWNSPOUT AND PRECAST SPLASH BLOCK.
9. WALL TO RECEIVE SS CAP; SEE DETAILS

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NEW CONSTRUCTION FLOOR PLAN

BID SET

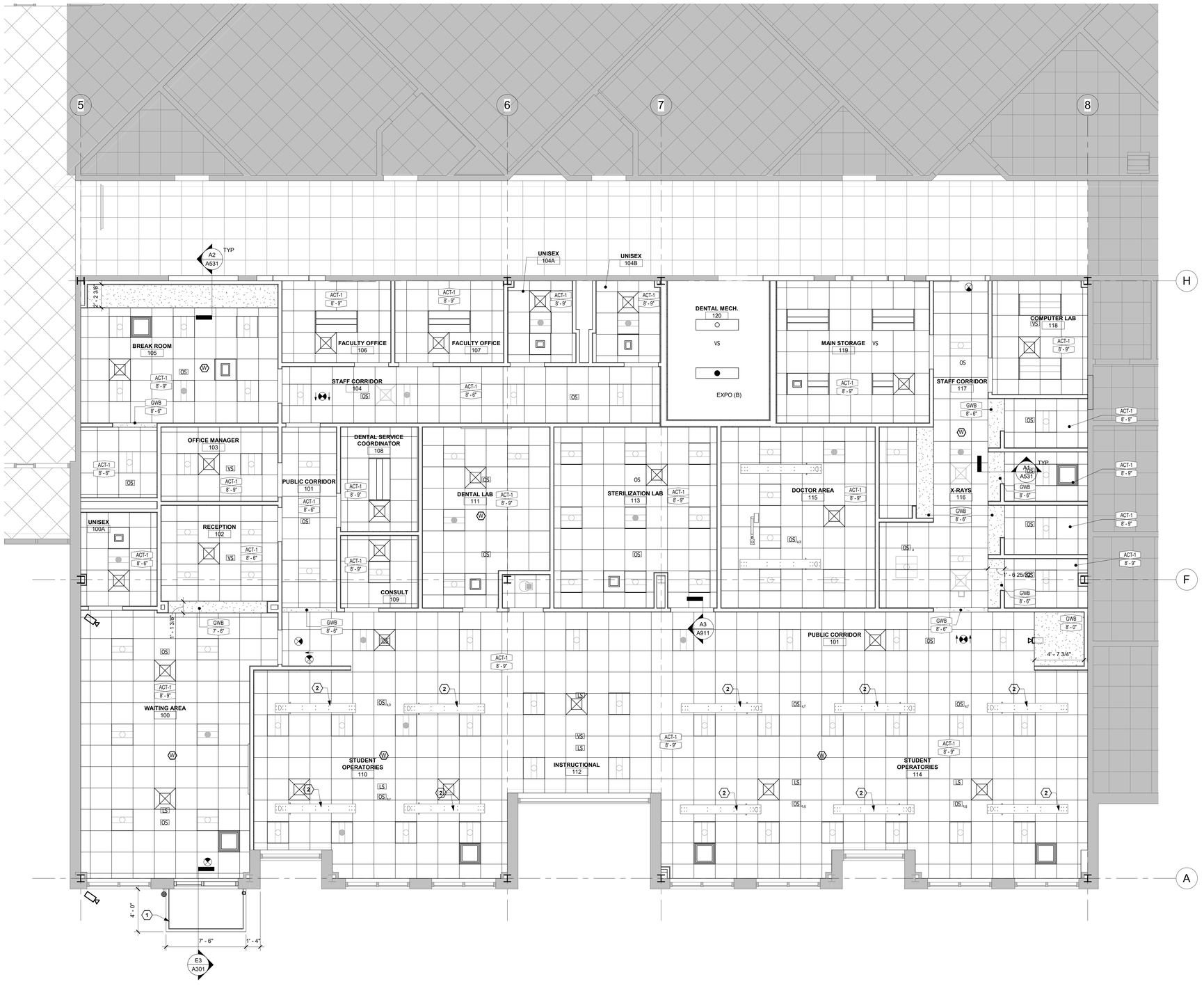
PLAN NORTH
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A1
A110
REFLECTED CEILING PLAN - NEW CONSTRUCTION
Scale : 1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- 2x2 ACOUSTICAL CEILING AND GRID
- 2x4 ACOUSTICAL CEILING AND GRID
- GYPSUM BOARD CEILING/SOFFIT
- EXPO (A) — PAINT EXPOSED STRUCTURE, DUCTWORK, PIPING, CONDUIT, AND DECKING
- EXPO (B) — EXPOSED CONSTRUCTION ABOVE - NO PAINTING REQ'D
- 2'x2' LIGHT FIXTURE
- 2'x4' LIGHT FIXTURE
- 1'x4' LIGHT FIXTURE
- 8' SUSPENDED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- SUPPLY AIR DIFFUSER/ EXHAUST REGISTER (SEE MECH)
- RETURN AIR GRILLE (SEE MECH)
- LINEAR SUPPLY AIR DIFFUSER (SEE MECH)
- P — CEILING PROJECTOR MOUNT
- EXIT SIGN
- S — SPEAKER
- EF — EXHAUST FAN

RCP - GENERAL SHEET NOTES

A. SEE SPECIFICATIONS FOR ACOUSTIC CEILING TILE AND GRID SUSPENSION SYSTEM TYPES.

B. SEE MECH. & ELEC. DWGS & SPECS FOR SIZES & TYPES OF FIXTURES, DIFFUSERS, GRILLES, ETC.

C. (X'-X") DENOTES HEIGHT OF CEILING A.F.F.

D. CEILING HEIGHTS TO BE 9'-0" TYP., U.O.N.

SHEET KEYNOTES

1. CUSTOM ARCHITECTURAL METAL CANOPY WITH INTEGRAL GUTTERS.
2. CEILING MOUNTED EXAM LIGHTS, SEE EQUIPMENT SCHEDULE ON A901.

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NEW CONSTRUCTION REFLECTED CEILING PLAN

BID SET

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ROOF NOTES

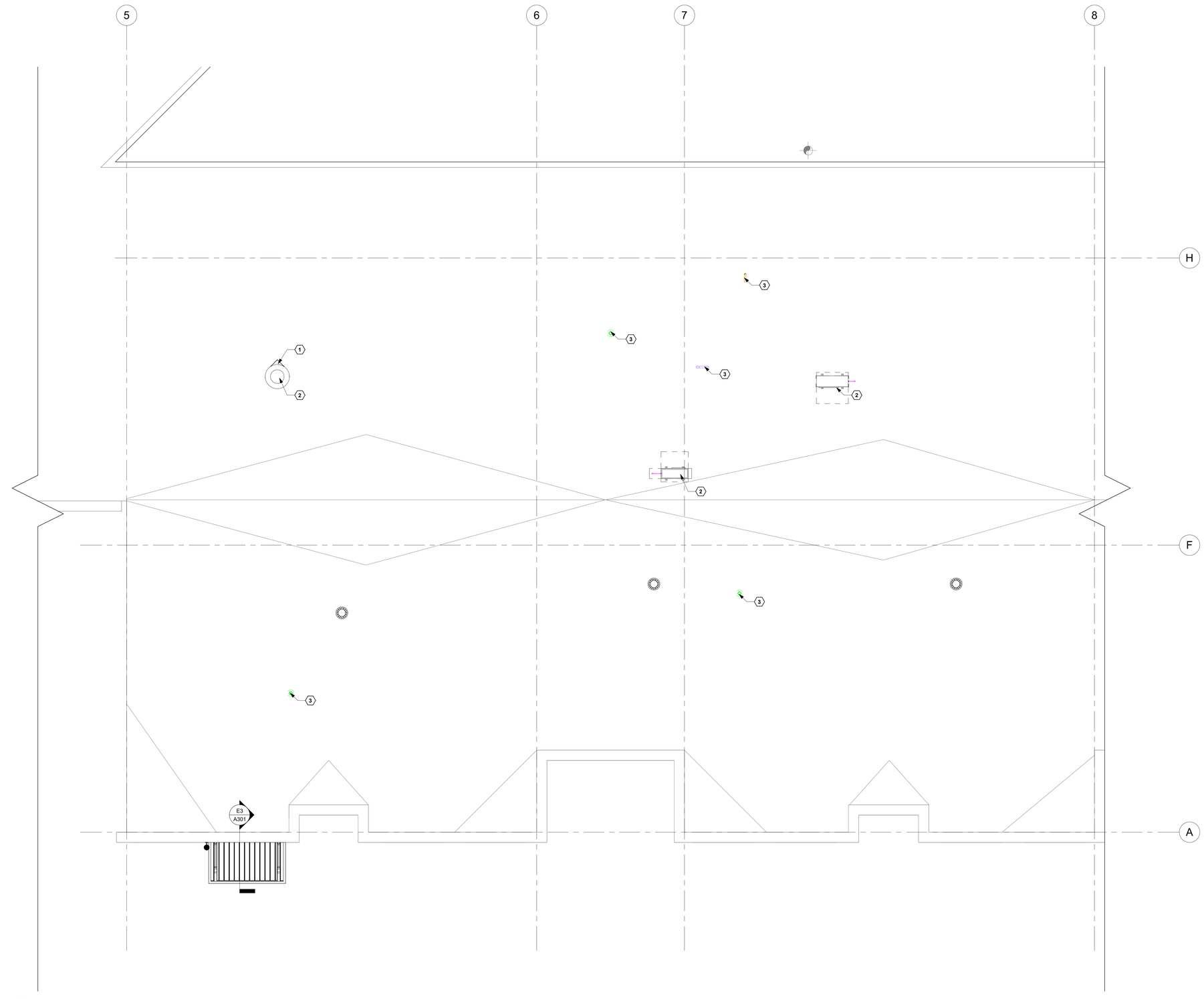
A. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION WITH ROOF TOP EQUIPMENT.

B. REFERENCE PLUMBING DRAWINGS FOR ROOF TOP PIPE PENETRATIONS.

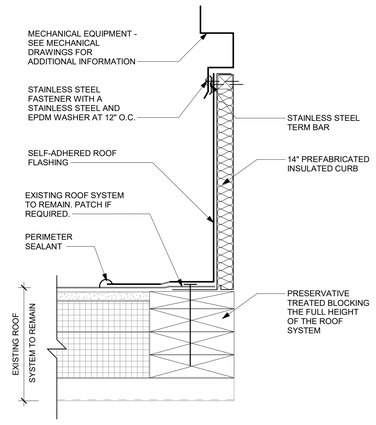
C. THE MAJORITY OF EXISTING TPO ROOF SYSTEM SHALL REMAIN. CONTRACTOR SHALL BE RESPONSIBLE TO TIE-IN NEW SELF ADHERED FLASHING AND PATCHING TO THE EXISTING ROOF SYSTEM, IN LOCATIONS NOTED BELOW.

(#) SHEET KEYNOTES

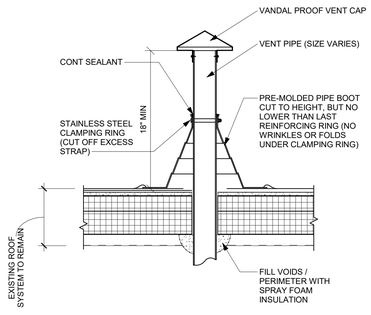
1. TAPERED INSULATION ROOF CRICKET (SHOWN SHADED) AS REQUIRED FOR POSITIVE DRAINAGE AT NEW MECHANICAL CURB..
2. FURNISH AND INSTALL NEW HVAC UNIT WITH ASSOCIATED PIPING AND DUCTS. CONTRACTOR TO SEAL ALL AREAS OF CONNECTION, FLASHING, AND MEMBRANE PENETRATIONS TO PROVIDE WEATHER TIGHT SEAL. SEE MECHANICAL PLANS FOR SCOPE OF WORK ASSOCIATED WITH MECHANICAL UNIT.
3. NEW PIPE PENETRATION. SEE DETAIL B5/A120.



A1 / A120 **ROOF PLAN - NEW CONSTUCTION**
Scale : 1/4" = 1'-0"



C5 / A120 **CURB FLASHING DETAIL**
Scale : 3" = 1'-0"



B5 / A120 **PIPE PENETRATION DETAIL**
Scale : 1 1/2" = 1'-0"

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ROOF PLAN AND DETAILS

BID SET

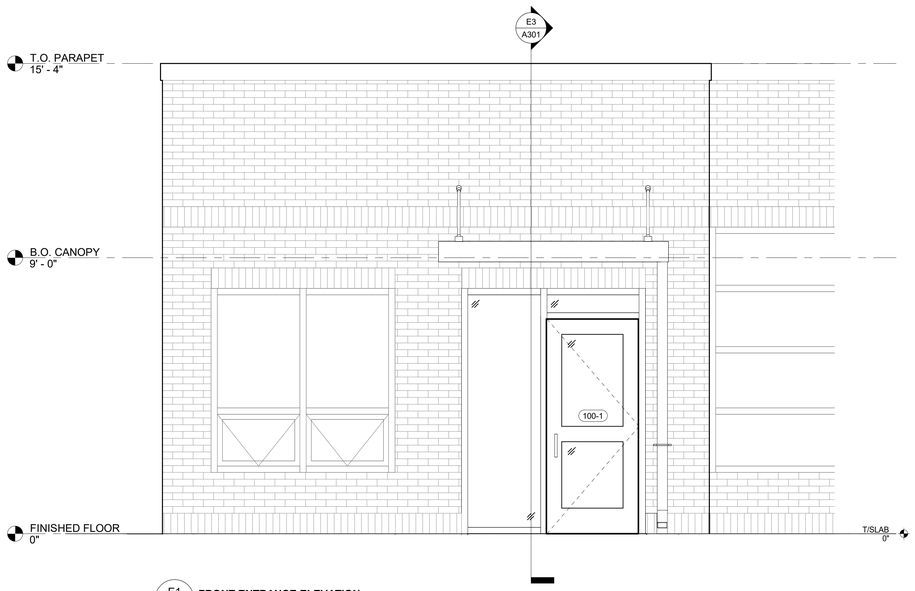
PLAN NORTH
TRUE NORTH

ISSUED FOR

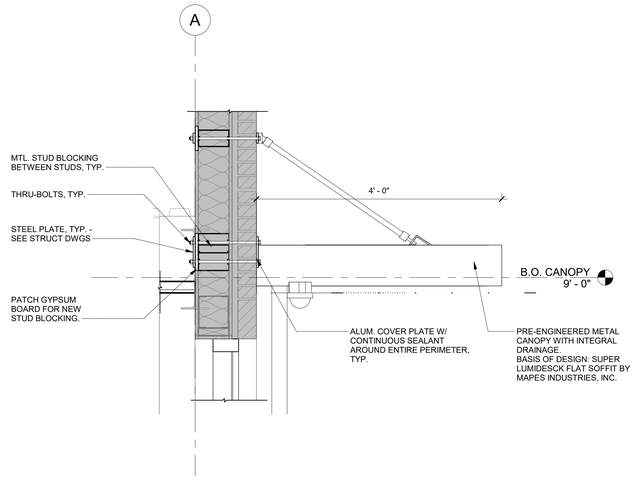
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Date	10/12/2026
Scale	As indicated
Drawn	AB
Checked	AB
Approved	AB
Project	25040
Sheet	**A120**

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E1 A301 **FRONT ENTRANCE ELEVATION**
Scale : 1/2" = 1'-0"



E3 A301 **CANOPY DETAIL**
Scale : 1" = 1'-0"

TEVEBAUGH ARCHITECTURE
Two Mill Road, Suite 210
Wilmington, Delaware 19806
(302) 984-1400
FAX (302) 984-2957

GIPE ASSOCIATES, INC.
CONSULTING ENGINEERS
MECHANICAL | ELECTRICAL | PLUMBING
8719 BROOKS DRIVE, EASTON , MD 21601
(410) 822-8688

DCI ENGINEERS
2 MILL RD, SUITE 100,
WILMINGTON, DE 19806
(302) 252-9200

The professional services of the architect are undertaken and performed in the interest of DELAWARE TECHNICAL COMMUNITY COLLEGE
No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE

21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

EXTERIOR ELEVATION AND DETAILS

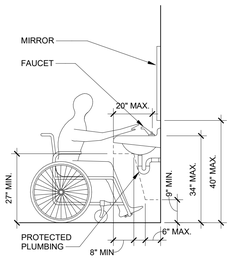
BID SET

ISSUED FOR

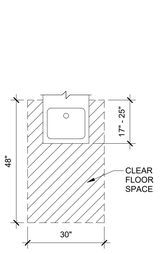
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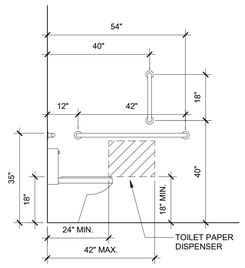
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Scale	As indicated
Drawn	AB
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Approved	AB
Project	25040
Sheet	A301

© 2026 TEVEBAUGH ARCHITECTURE

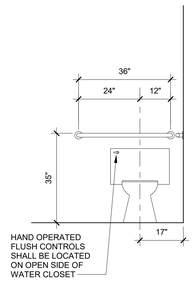


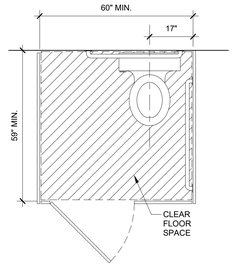
LAVATORIES

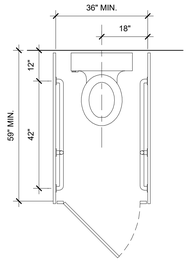




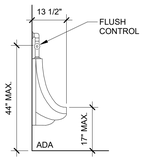
FLOOR MOUNTED WATER CLOSETS



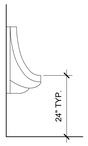


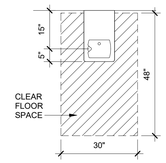


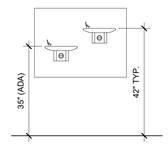
AMBULATORY TOILET STALL
IF REQ'D



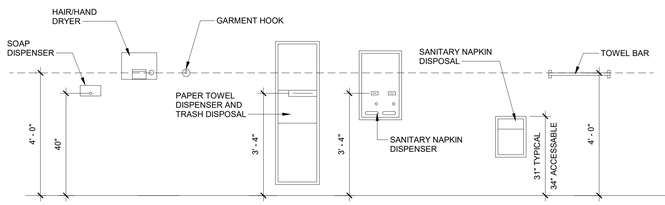
URINALS







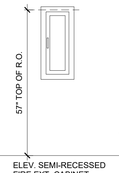
DRINKING FOUNTAINS



MISCELLANEOUS ACCESSORIES



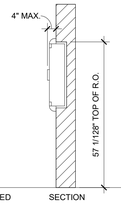
SURFACE MOUNTED FIRE EXTINGUISHER



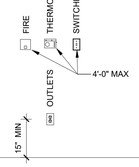
ELEV. SEMI-RECESSED FIRE EXT. CABINET

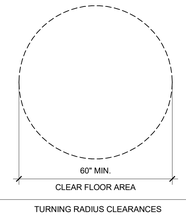


PLAN SEMI-RECESSED FIRE EXT. CABINET



SECTION





TURNING RADIUS CLEARANCES

TYPICAL TOILET ROOM NOTES:

a. ALL DIMENSIONS NOTED ON TOILET ROOM PLANS ARE FROM FINISHED SURFACE.

b. PROVIDE PULLS ON BOTH SIDES OF STALL DOORS.

c. DOORS TO ACCESSIBLE STALLS TO BE 32" CLEAR AND SELF-CLOSING.

d. GARMENT HOOK TO BE MOUNTED 48" MAX TO TOP OF HOOK.

e. ALL ACCESSIBLE GRAB BARS TO SUPPORT A LOAD OF 250 LBS MIN.

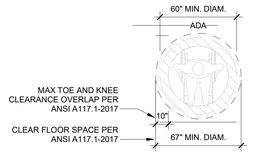
f. PROVIDE HANDICAPPED SYMBOL ALL HANDICAPPED LAVATORIES AND LOCKERS WHEN MORE THAN ONE FIXTURE / LOCKER IS LOCATED WITHIN THE ROOM

g. CONTRACTOR SHALL FURNISH AND INSTALL ALL BLOCKING AND SUPPLEMENTAL SUPPORT REQUIRED FOR SECURE AND PROPER INSTALLATION OF TOILET ROOM FIXTURES AND ACCESSORIES.

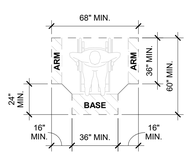
h. ALL EXPOSED WATER LINES UNDER LAVATORIES OR SINK SHALL BE INSULATED CABO/ANSI A117.1-4.17.5

D1 / A401 **TYPICAL 2010 ADA STANDARDS**
Scale : 1/2" = 1'-0"

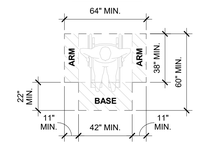
TURNING SPACE CLEARANCES | ANSI 117.1-2017



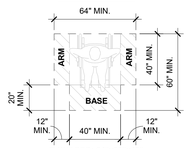
TURNING CIRCLE



T-SHAPED: 68"x60"



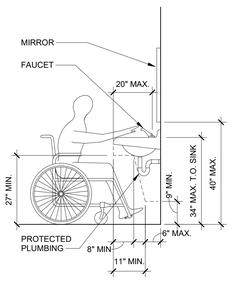
T-SHAPED: 64"x60"x42"



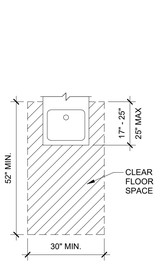
T-SHAPED: 64"x60"x40"

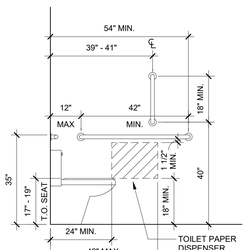
"NOTE: FOR T-SHAPED TURNING SPACE CLEARANCES ONLY: ONE "ARM" OR THE "BASE" OF EACH CLEARANCE OPTION IS PERMITTED TO OVERLAP KNEE AND TOE CLEARANCE EXTENDING BELOW AN ELEMENT."

C6 / A401 **TURNING SPACE CLEARANCES**
Scale : 1/4" = 1'-0"

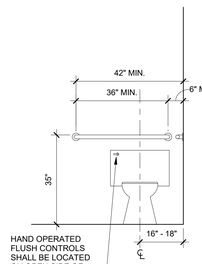


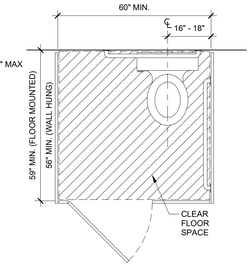
LAVATORIES

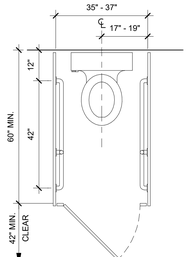




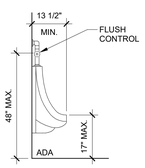
FLOOR MOUNTED WATER CLOSETS



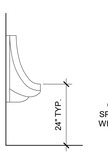


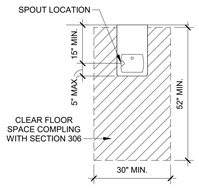


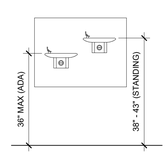
AMBULATORY TOILET STALL
IF REQ'D



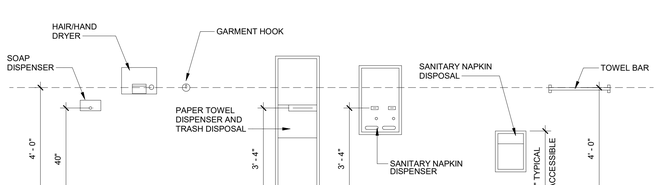
URINALS



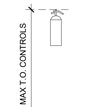




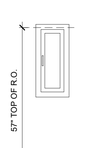
DRINKING FOUNTAINS



MISCELLANEOUS ACCESSORIES



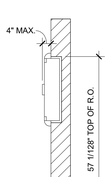
SURFACE MOUNTED FIRE EXTINGUISHER



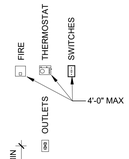
ELEV. SEMI-RECESSED FIRE EXT. CABINET



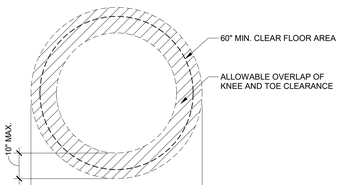
PLAN SEMI-RECESSED FIRE EXT. CABINET



SECTION



MISC WALL MOUNTED ITEMS



TURNING RADIUS CLEARANCES

TYPICAL TOILET ROOM NOTES:

a. ALL DIMENSIONS NOTED ON TOILET ROOM PLANS ARE FROM FINISHED SURFACE.

b. PROVIDE PULLS ON BOTH SIDES OF STALL DOORS.

c. DOORS TO ACCESSIBLE STALLS TO BE 32" CLEAR AND SELF-CLOSING.

d. GARMENT HOOK TO BE MOUNTED 48" MAX TO TOP OF HOOK.

e. ALL ACCESSIBLE GRAB BARS TO SUPPORT A LOAD OF 250 LBS MIN.

f. PROVIDE HANDICAPPED SYMBOL ALL HANDICAPPED LAVATORIES AND LOCKERS WHEN MORE THAN ONE FIXTURE / LOCKER IS LOCATED WITHIN THE ROOM

g. CONTRACTOR SHALL FURNISH AND INSTALL ALL BLOCKING AND SUPPLEMENTAL SUPPORT REQUIRED FOR SECURE AND PROPER INSTALLATION OF TOILET ROOM FIXTURES AND ACCESSORIES.

h. ALL EXPOSED WATER LINES UNDER LAVATORIES OR SINK SHALL BE INSULATED CABO/ANSI A117.1-4.17.5

B1 / A401 **TYPICAL 2017 ADA STANDARDS**
Scale : 1/2" = 1'-0"

TEVEBAUGH ARCHITECTURE
Two Mill Road, Suite 210
Wilmington, Delaware 19806
(302) 984-1400
FAX (302) 984-2957

GIPE ASSOCIATES, INC.
CONSULTING ENGINEERS
MECHANICAL | ELECTRICAL | PLUMBING
8719 BROOKS DRIVE, EASTON , MD 21601
(410) 822-8688

DCI ENGINEERS
2 MILL RD, SUITE 100,
WILMINGTON, DE 19806
(302) 252-9200

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No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

ACCESSIBILITY STANDARDS

BID SET

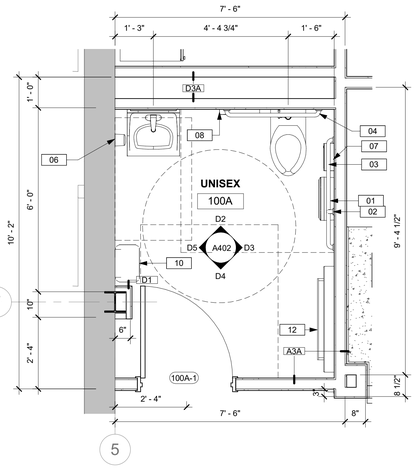
PLAN NORTH

ISSUED FOR

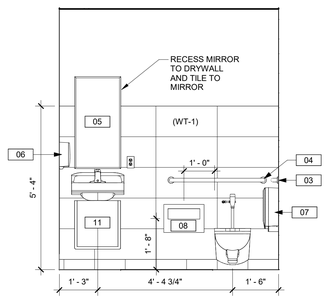
NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	As indicated
Drawn	AC
Checked	AB
Approved	BLV
Project	25040
Sheet	A401

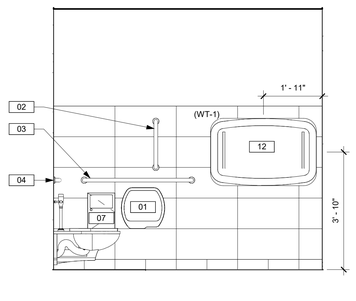
© 2026 TEVEBAUGH ARCHITECTURE



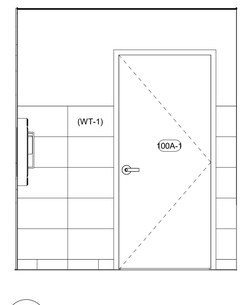
D1 / A402 **ENLARGED PLAN - UNISEX ROOM 100A**
Scale : 1/2" = 1'-0"



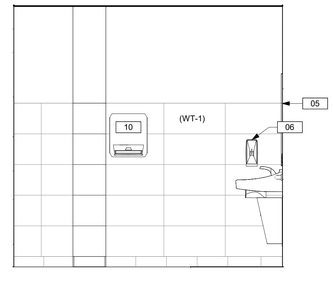
D2 / A402 **UNISEX 100A - NORTH ELEV**
Scale : 1/2" = 1'-0"



D3 / A402 **UNISEX 100A - EAST ELEV**
Scale : 1/2" = 1'-0"

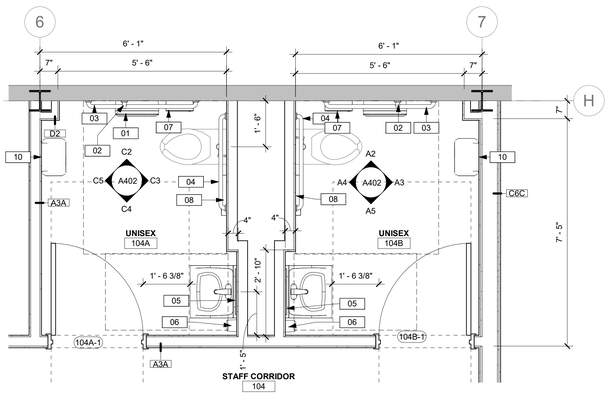


D4 / A402 **UNISEX 100A - SOUTH ELEV**
Scale : 1/2" = 1'-0"

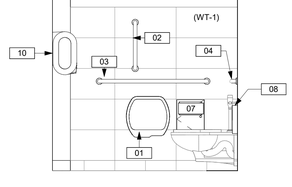


D5 / A402 **UNISEX 100A - WEST ELEV**
Scale : 1/2" = 1'-0"

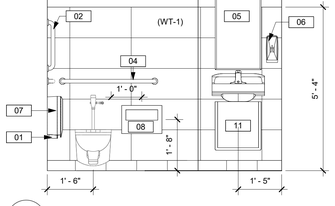
TOILET ACCESSORIES LEGEND W/ COMMENTS			
TAG	**DESCRIPTION**	**PART NUMBER**	**COMMENTS**
01	TOILET TISSUE DISPENSER	GEORGIA-PACIFIC 59009, SCOTT 39709*	PROVIDED AND INSTALLED BY CONTRACTOR
02	18" VERTICAL GRAB BAR WITH CONCEALED MOUNTING	BOBRICK B-6806 x 18	PROVIDED AND INSTALLED BY CONTRACTOR
03	42" GRAB BAR WITH CONCEALED MOUNTING	BOBRICK B-6806 x 42	PROVIDED AND INSTALLED BY CONTRACTOR
04	36" GRAB BAR WITH CONCEALED MOUNTING	BOBRICK B-6806 x 36	PROVIDED AND INSTALLED BY CONTRACTOR
05	MIRROR 18X36	BOBRICK B-165 1836	PROVIDED AND INSTALLED BY CONTRACTOR
06	WALL MOUNTED AUTO SOAP DISPENSER	KIMBERLY-CLARK 54191	PROVIDED AND INSTALLED BY CONTRACTOR
07	SANITARY NAPKIN DISPOSAL	BOBRICK B-270*	PROVIDED AND INSTALLED BY CONTRACTOR
08	TOILET SEAT COVER DISPENSER	GEORGIA-PACIFIC SAFE-T-GARD, SCOTT 09512*	PROVIDED AND INSTALLED BY CONTRACTOR
09	WASTE RECEPTACLE	B-2250	PROVIDED AND INSTALLED BY CONTRACTOR
10	PAPERTOWEL DISPENSER	GEORGIA-PACIFIC ENMOTION GP59462, KIMBERLY-CLARK 53706*	PROVIDED AND INSTALLED BY CONTRACTOR
11	LAV SHIELD	TRUEBRO WTP-270; COORD. W/ SINK SPEC.	PROVIDED AND INSTALLED BY CONTRACTOR
12	BABY CHANGING STATION	KOALA KARE KB310-SSWM	PROVIDED AND INSTALLED BY CONTRACTOR



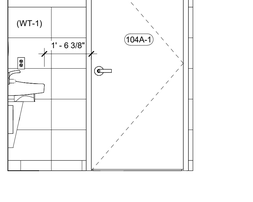
C1 / A402 **ENLARGED PLAN - UNISEX ROOMS 104A & 104B**
Scale : 1/2" = 1'-0"



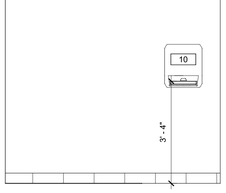
C2 / A402 **UNISEX 104A - NORTH ELEV**
Scale : 1/2" = 1'-0"



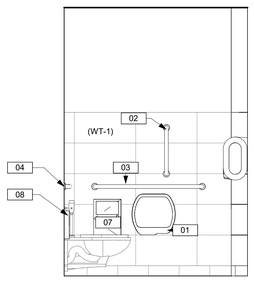
C3 / A402 **UNISEX 104A - EAST ELEV**
Scale : 1/2" = 1'-0"



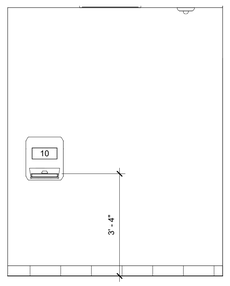
C4 / A402 **UNISEX 104A - SOUTH ELEV**
Scale : 1/2" = 1'-0"



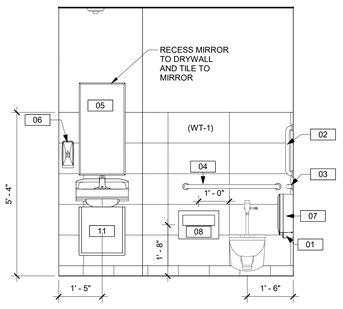
C5 / A402 **UNISEX 104A - WEST ELEV**
Scale : 1/2" = 1'-0"



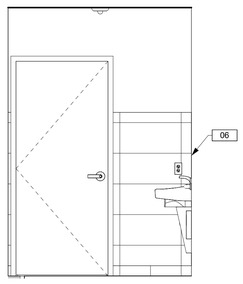
A2 / A402 **UNISEX 120 NORTH ELEVATION**
Scale : 1/2" = 1'-0"



A3 / A402 **UNISEX 120 EAST ELEVATION**
Scale : 1/2" = 1'-0"



A4 / A402 **UNISEX 120 WEST ELEVATION**
Scale : 1/2" = 1'-0"



A5 / A402 **UNSIEX 104B - SOUTH ELEV**
Scale : 1/2" = 1'-0"

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2 MILL RD, SUITE 100,
WILMINGTON, DE 19806
(302) 252-9200

The professional services of the architect are undertaken and performed in the interest of DELAWARE TECHNICAL COMMUNITY COLLEGE. No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

ENLARGED RESTROOM PLANS AND ELEVATIONS

BID SET

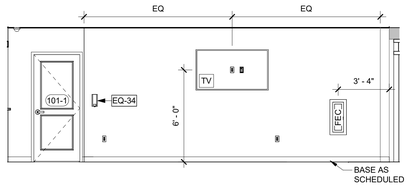
PLAN NORTH

ISSUED FOR

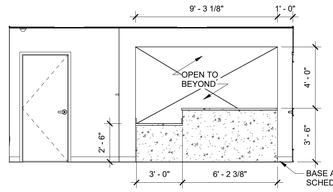
NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	1/2" = 1'-0"
Drawn	AC
Checked	AB
Approved	BLV
Project	25040
Sheet	**A402**

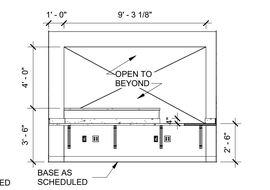
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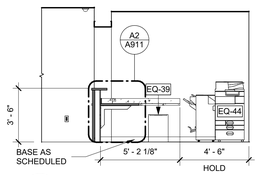
E1 / A410 **WAITING AREA 101 EAST ELEVATION**
Scale : 1/4" = 1'-0"



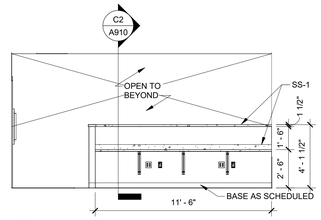
E2 / A410 **RECEPTION 104 NORTH ELEVATION**
Scale : 1/4" = 1'-0"



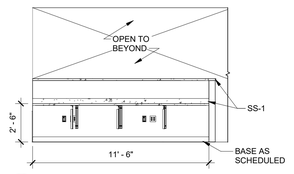
E3 / A410 **RECEPTION 104 SOUTH ELEVATION**
Scale : 1/4" = 1'-0"



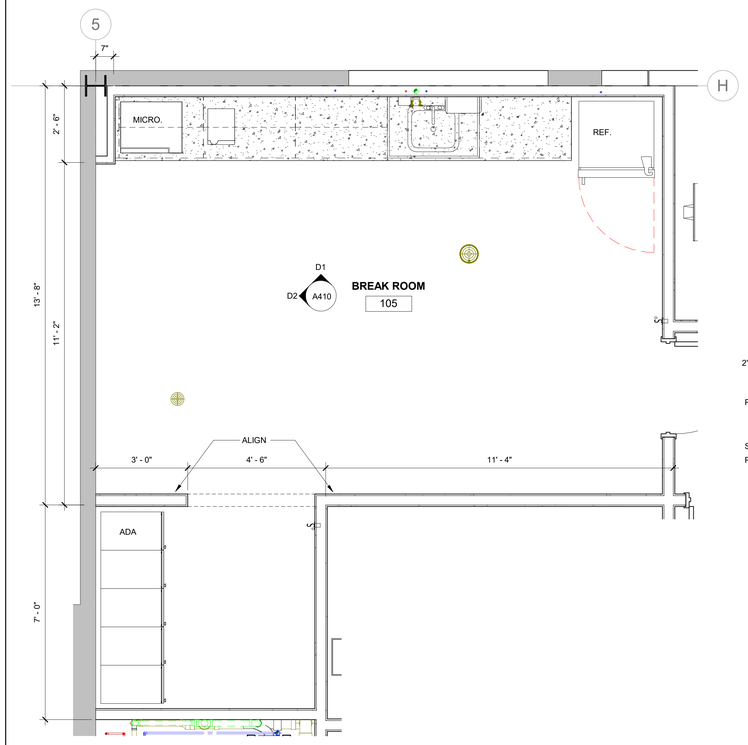
E4 / A410 **RECEPTION 104 WEST ELEVATION**
Scale : 1/4" = 1'-0"



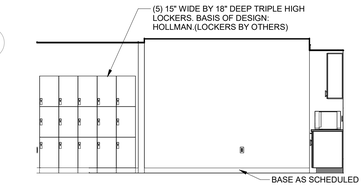
E5 / A410 **INSTRUCTIONAL 109 ELEVATION EAST**
Scale : 1/4" = 1'-0"



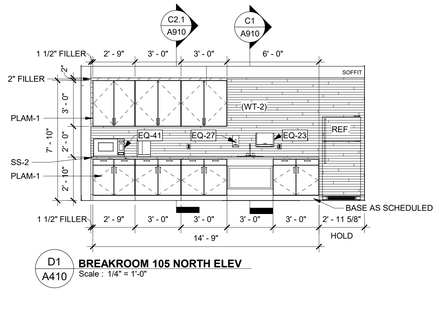
E6 / A410 **INSTRUCTIONAL 109 ELEVATION WEST**
Scale : 1/4" = 1'-0"



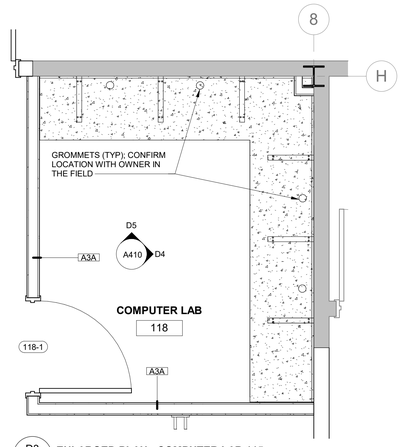
C1 / A410 **ENLARGED PLAN - BREAK ROOM 124**
Scale : 1/2" = 1'-0"



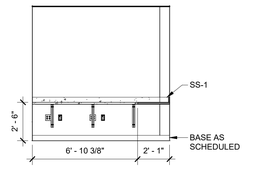
D2 / A410 **BREAKROOM 105 WEST ELEV**
Scale : 1/4" = 1'-0"



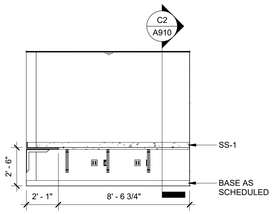
D1 / A410 **BREAKROOM 105 NORTH ELEV**
Scale : 1/4" = 1'-0"



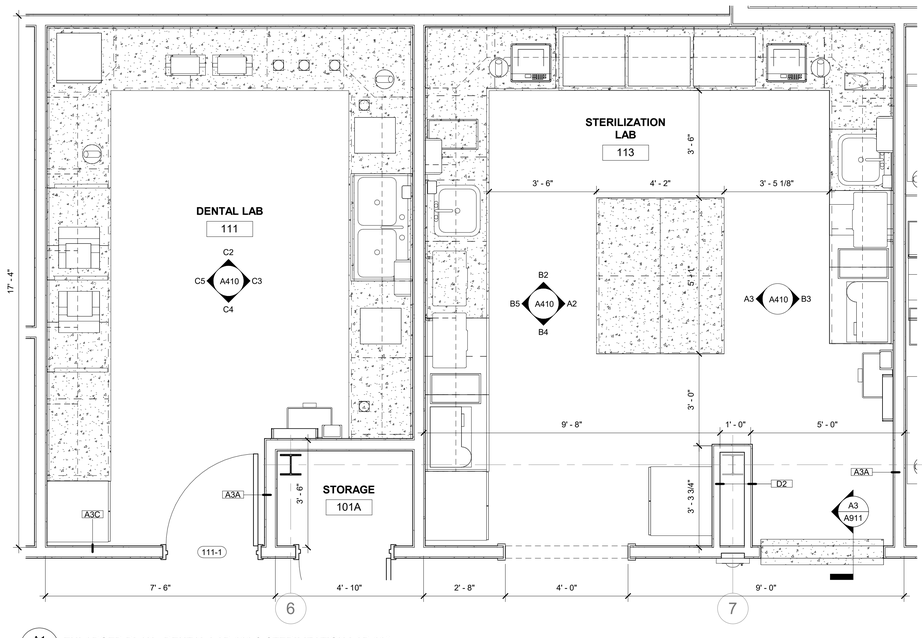
D3 / A410 **ENLARGED PLAN - COMPUTER LAB 115**
Scale : 1/2" = 1'-0"



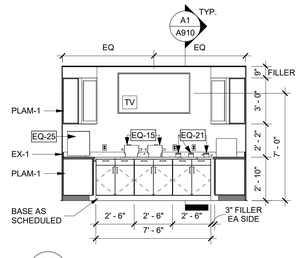
D5 / A410 **COMPUTER LAB 118 NORTH ELEV**
Scale : 1/4" = 1'-0"



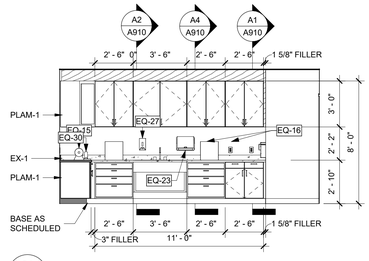
D4 / A410 **COMPUTER LAB 118 EAST ELEV**
Scale : 1/4" = 1'-0"



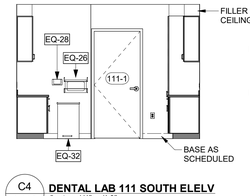
A1 / A410 **ENLARGED PLAN - DENTAL LAB 111 & STERILIZATION LAB 112**
Scale : 1/2" = 1'-0"



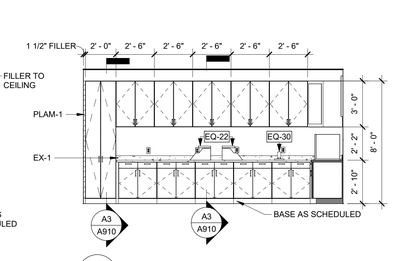
C2 / A410 **DENTAL LAB 111 NORTH ELEV**
Scale : 1/4" = 1'-0"



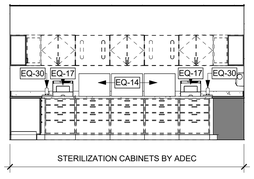
C3 / A410 **DENTAL LAB 111 EAST ELEV**
Scale : 1/4" = 1'-0"



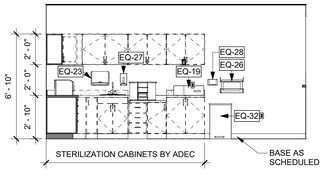
C4 / A410 **DENTAL LAB 111 SOUTH ELELV**
Scale : 1/4" = 1'-0"



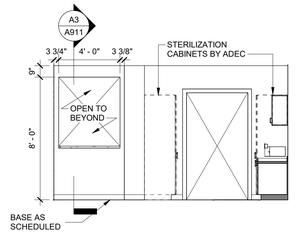
C5 / A410 **DENTAL LAB 111 WEST ELEV**
Scale : 1/4" = 1'-0"



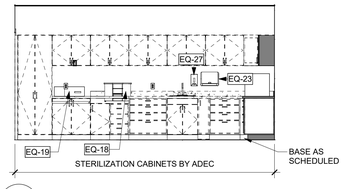
B2 / A410 **STERILIZATION LAB NORTH ELEV**
Scale : 1/4" = 1'-0"



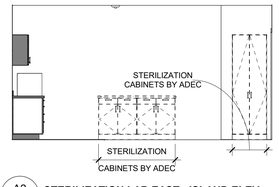
B3 / A410 **STERILIZATION LAB EAST ELEV**
Scale : 1/4" = 1'-0"



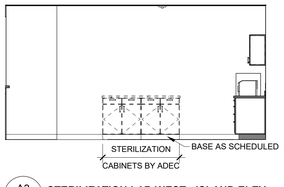
B4 / A410 **STERILIZATION LAB SOUTH ELEV**
Scale : 1/4" = 1'-0"



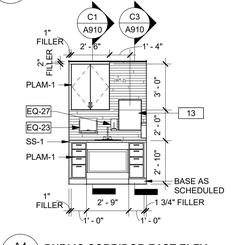
B5 / A410 **STERILIZATION LAB WEST ELEV**
Scale : 1/4" = 1'-0"



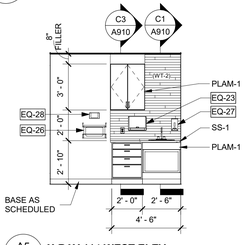
A2 / A410 **STERILIZATION LAB EAST - ISLAND ELEV**
Scale : 1/4" = 1'-0"



A3 / A410 **STERILIZATION LAB WEST - ISLAND ELEV**
Scale : 1/4" = 1'-0"



A4 / A410 **PUBLIC CORRIDOR EAST ELEV**
Scale : 1/4" = 1'-0"



A5 / A410 **X-RAY 114 WEST ELEV**
Scale : 1/4" = 1'-0"

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(302) 252-9200

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

ENLARGED PLANS AND ELEVATIONS

BID SET

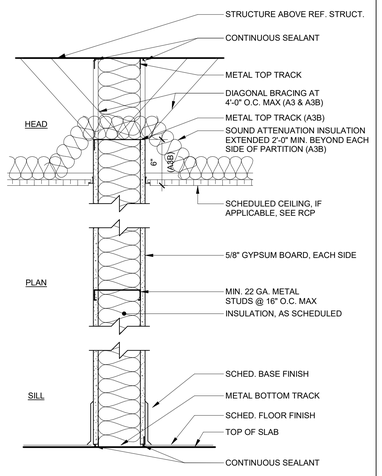
PLAN NORTH

ISSUED FOR

NO:	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	As indicated
Drawn	AC
Checked	AB
Approved	BLV
Project	25040
Sheet	A410

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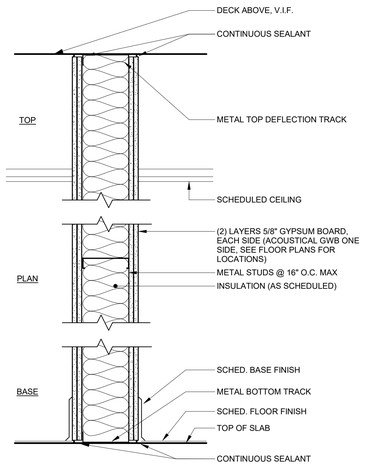


NOTE:
EXTEND FROM FLOOR TO UNDERSIDE OF DECK, U.N.O.

PARTITION TYPE A

WALL TYPE	INSUL TYPE	ASSEMBLY THICKNESS	STC		FIRE RATING		NOTES
			RATING	TEST NO.	RATING	UL ASSY.	
A3	-	4 7/8"	45	-	-	-	UP TO 4'-0" AFF. PROVIDE PONY WALL SUPPORT EVERY OTHER STUD.
A3A	3 1/2" SAB	4 7/8"	45	RAL-TL12-194	-	-	UP TO 6" AFF
A3C	3 1/2" SAB	4 7/8"	45	RAL-TL12-194	-	-	UP TO DECK
A3S	3 1/2" SAB	4 15/16"	45	-	-	-	

A PARTITION TYPE A - MTL STUD WITH ONE LAYER OF GWB ON EACH SIDE
1-1/2" = 1'-0"

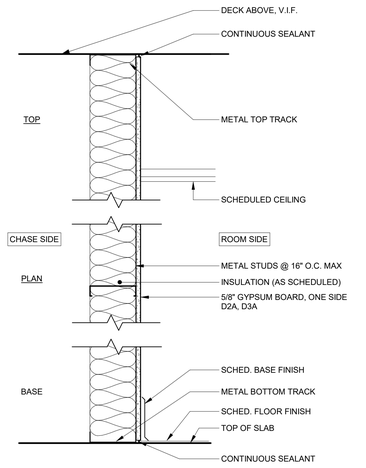


NOTE:
EXTEND FROM FLOOR TO UNDERSIDE OF DECK, U.N.O.

PARTITION TYPE C

WALL TYPE	INSUL TYPE	ASSEMBLY THICKNESS	STC		FIRE RATING		NOTES
			RATING	TEST NO.	RATING	UL ASSY.	
C6C	6" SAB	8 1/2"	61	NRCC B-3456.2	1 HR	U407	

C PARTITION TYPE C - MTL STUD WITH TWO LAYERS OF GWB ON EACH SIDE
1-1/2" = 1'-0"



NOTE:
EXTEND FROM FLOOR TO UNDERSIDE OF DECK, U.N.O.

PARTITION TYPE D

WALL TYPE	INSUL TYPE	ASSEMBLY THICKNESS	STC		FIRE RATING		NOTES
			RATING	TEST NO.	RATING	UL ASSY.	
D1		1 5/8"					UP TO 6" AFF
D2	-	3 1/8"	-	-	-	-	UP TO 6" AFF
D3	-	4 1/4"	-	-	-	-	UP TO 6" AFF
D3A	3 1/2" SAB	4 1/4"	-	-	-	-	UP TO DECK

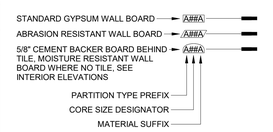
D PARTITION TYPE D - MTL STUD WITH GWB ON ONE SIDE
1-1/2" = 1'-0"

PARTITION TYPE PREFIX LEGEND			
DESIGNATOR	CORE	SHEATHING	
A	STUD	1 LAYER	1 LAYER
B		1 LAYER	2 LAYERS
C		2 LAYERS	2 LAYERS
D		1 LAYER	NO LAYERS
E		2 LAYERS	NO LAYERS
F	STUD + RC	1 LAYER	1 LAYER
G		1 LAYER	2 LAYERS
H		2 LAYERS	2 LAYERS
J	C-H STUD	1 LAYER	1 LAYER
K		1 LAYER	2 LAYERS
L		2 LAYERS	2 LAYERS
M	WOOD FURRING	1 LAYER	NO LAYERS
N		2 LAYERS	NO LAYERS
P	MASONRY	NO SHEATHING	
Q	STAGGERED STUD	1 LAYER	1 LAYER
R		1 LAYER	2 LAYERS
S		2 LAYERS	2 LAYERS

METAL CORE SIZE LEGEND		
CORE TYPE	DESIGNATOR	ACTUAL SIZE
MTL STUDS	1	1 5/8"
	2	2 1/2"
	3	3 5/8"
	4	4"
	5	5 1/2"
	6	6"
	8	8"
STUD + RC	USE STUD SIZE, RC 7/8"	
C-H STUD	2	2 1/2"
	4	4"
	6	6"
HAT CHANNEL	1	7/8"
	2	1 1/2"
MASONRY	4	3 5/8"
	6	5 5/8"
	8	7 5/8"
	10	9 5/8"
	12	11 5/8"

MATERIAL SUFFIX LEGEND	
DESIGNATOR	DEFINITION
A	ACOUSTICAL ASSEMBLY. PROVIDE ACOUSTICAL SEALANT AND BATT AND EMPLOY ACOUSTICAL TECHNIQUES FOR INSTALLATION OF GYPSUM WALL BOARD AND PLACEMENT OF ELECTRICAL DEVICES WITHIN THE STUD CAVITIES.
B	BALLISTIC ASSEMBLY. PROVIDE BALLISTIC RESISTANT FIBERGLASS SHEATHING, LEVEL 3, ON LOBBY SIDE OF WALL.
C	ACOUSTICAL ASSEMBLY UP TO DECK ABOVE. PROVIDE ACOUSTICAL SEALANT AND BATT AND EMPLOY ACOUSTICAL TECHNIQUES FOR INSTALLATION OF GYPSUM WALL BOARD AND PLACEMENT OF ELECTRICAL DEVICES WITHIN T...
F	2 HOUR FIRE RATED ASSEMBLY. SEE TESTED ASSEMBLY REFERENCES IN ASSEMBLY LEGEND.
G	ACOUSTICAL ASSEMBLY WITH GREEN GLUE. APPLY GREEN GLUE PER MANUFACTURER'S INSTRUCTIONS IN LOCATIONS SHOWN ON PARTITION TYPE SECTION. ALSO PROVIDE ACOUSTICAL SEALANT AND BATT AND EMPLOY ACOUSTICAL TECHNIQUES FOR INSTALLATION OF GYPSUM WALL BOARD AND PLACEMENT OF ELECTRICAL DEVICES WITHIN THE STUD CAVITIES.
R	REINFORCED ASSEMBLY. PROVIDE BARRIER MESH ON OUTSIDE OF WOOD STUD LAYER OF WALL. SEE SPECIFICATIONS FOR SPECIFIC MATERIALS.
S	LEAD LINED ASSEMBLY. PROVIDE LEAD LINED 5/8" GYPSUM BOARD ON HOT SIDE OF ASSEMBLY WHERE REQUIRED LEAD THICKNESS IS LESS THAN OR EQUAL TO 1/8". PROVIDE LEAD LINED...

WALL TAG LEGEND

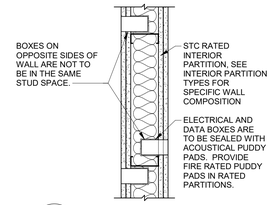


PARTITION SCHEDULE NOTES

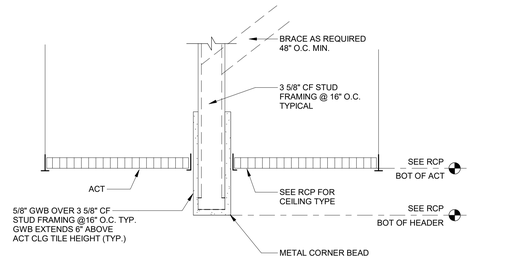
1. REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. IN THE EVENT OF ROOF STRUCTURE INTERRUPTING A PROPOSED PARTITIONS PATH TO THE UNDERSIDE OF DECK, CONTRACTOR IS RESPONSIBLE FOR PROVIDING CLOSURE / PARTITION OF EQUAL OR GREATER FIRE, SOUND, AND RESILIENCE RATINGS TO MAINTAIN ALL PROPOSED RATINGS TO UNDERSIDE OF DECK AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT OF SAID CONFLICT, CONTRACTOR TO SUBMIT ALL PROPOSED PARTITION SUBSTITUTION REQUESTS DUE TO CONFLICTS WITH ROOF FRAMING TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
3. ALL WET WALLS TO RECEIVE MOISTURE RESISTANT GYPSUM WALL BOARD.
4. SECOND FINISHED FACE OF GWB IS NOT REQUIRED AS SPECIFIED IN PARTITION SCHEDULE WHERE FACING UNEXPOSED INTERIOR CAVITY.
5. CONTRACTOR TO CONFIRM STUD SIZING WITH FIELD CONDITIONS. SUBMIT SELECTION CRITERIA FOR REVIEW PER SPECIFICATIONS. NOTIFY ARCHITECT OF ANY FIELD DISCREPANCIES FOR PARTITIONS SCHEDULED OR INDICATED IN DRAWINGS.
6. FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED. LOCATIONS, AND MAY CONSIST OF ANY MATERIALS APPROVED FOR USE BY BUILDING CODE. THE INTEGRITY AND CONTINUITY OF FIREBLOCKS SHALL BE MAINTAINED, INCLUDING BUT NOT LIMITED TO WALL SPACES, CONNECTIONS BETWEEN HORIZONTAL AND VERTICAL SPACES, CEILING AND FLOOR OPENINGS, ARCHITECTURAL TRIMS, AND ATTICS.
7. MARKING RATED WALLS:
FIRE WALLS, FIRE BARRIERS, SHAFT ENCLOSURES, FIRE PARTITIONS, AND SMOKE BARRIERS SHALL BE LABELED WITH THEIR RATING. MARKINGS SHALL BE LOCATED ON BOTH SIDES OF THE FIRE SEPARATION WALL, A MINIMUM OF FOUR INCHES IN HEIGHT AND SHALL BE RED IN COLOR. MARKINGS SHALL BE VISIBLE WHEN CEILING TILES ARE REMOVED FOR INSPECTION. MARKINGS SHALL BE NO MORE THAN FIFTEEN FEET (15'-0") APART FOR THE LENGTH OF THE WALL.

RATINGS ARE TO BE MARKED AS FOLLOWS:

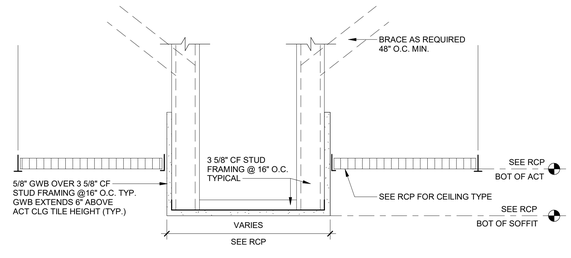
ONE HOUR SEPARATION:	1HR
TWO HOUR SEPARATION:	2HR
THREE HOUR SEPARATION:	3HR
FOUR HOUR SEPARATION:	4HR
SMOKE BARRIER:	SB



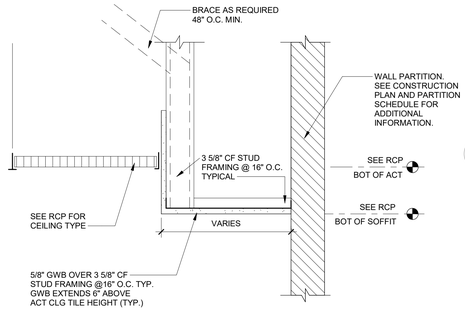
D6 / A531 **PLAN DETAIL AT OFFSET J-BOXES**
Scale : 1 1/2" = 1'-0"



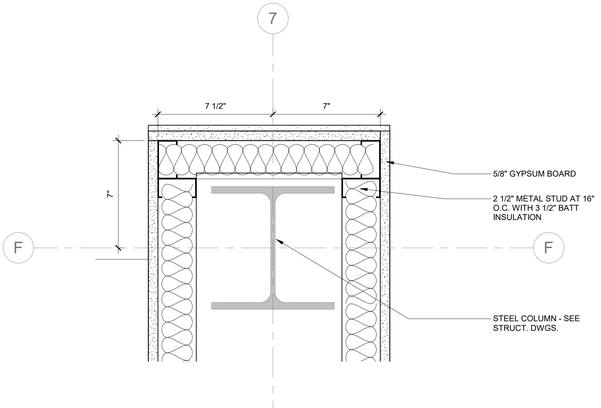
B1 / A531 **TYPICAL SOFFIT DETAIL**
Scale : 1 1/2" = 1'-0"



A1 / A531 **TYPICAL WIDE SOFFIT DETAIL**
Scale : 1 1/2" = 1'-0"



A2 / A531 **SOFFIT TO WALL DETAIL**
Scale : 1 1/2" = 1'-0"



4 / A531 **ENLARGED COLUMN DETAIL - AT STERILIZATION LAB**
Scale : 3" = 1'-0"

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DCI ENGINEERS
2 MILL RD, SUITE 100,
WILMINGTON, DE 19806
(302) 252-9200

The professional services of the architect are undertaken and performed in the interest of DELAWARE TECHNICAL COMMUNITY COLLEGE
No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

PARTITION SCHEDULE & DETAILS

BID SET



ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	As indicated
Drawn	AC
Checked	AB
Approved	AB
Project	25040
Sheet	A531

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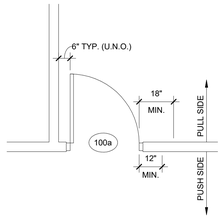
DOOR SCHEDULE

NUMBER	OPENING WIDTH	OPENING HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING TYPE	DOOR FIRE RATING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	COMMENTS
100-1	3' - 0"	7' - 0"	D	ALUM	ANOD	INSUL.		4	ALUM	ANOD	H3	J3	S1	
100A-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		
101-1	3' - 0"	7' - 0"	D	WD	ST	TEMP		3	HM	PT	H1	J1		
101A-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
102-1	3' - 0"	7' - 0"	B	WD	ST	TEMP		1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
103-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
104-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		
104A-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		
104B-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		
105-1	3' - 0"	7' - 0"	D	WD	ST	TEMP		3	HM	PT	H1	J1		
106-1	3' - 0"	7' - 0"	B	WD	ST	TEMP		1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
106-1	3' - 0"	7' - 0"	B	WD	ST	TEMP		1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
107-1	3' - 0"	7' - 0"	B	WD	ST	TEMP		1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
109-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
111-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		1/2" DOOR UNDERCUT
113-1	0"	0"	-	-	-			1	HM	PT	H2	J2		
115-1	0"	0"	-	-	-			1	HM	PT	H2	J2		
117-1	3' - 0"	7' - 0"	B	WD	ST	TEMP		1	HM	PT	H1	J1		CARD READER
118-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		
119-1	3' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		KEYPAD INTEGRATED IN LEVER
120-1	4' - 0"	7' - 0"	A	WD	ST			1	HM	PT	H1	J1		

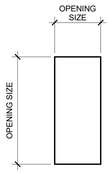
GENERAL NOTES:

AC	=	ACOUSTICAL
AL	=	ALUMINUM
ANOD	=	ANODIZED
EAC	=	ENHANCED ACOUSTICAL
HM	=	HOLLOW METAL
PT	=	PAINTED
SPT	=	SHOP PAINTED / PRE-FINISHED
ST	=	STAINED
STD	=	STANDARD
TBS	=	ARCHITECT TO SELECT FROM MANUF. FULL RANGE OF COLORS

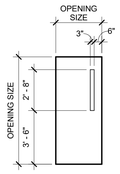
1. INTERIOR DOORS SHOULD REQUIRE NO MORE THAN 5 LBS. OF FORCE TO OPEN.
2. OPENING FORCE FOR EXTERIOR DOORS SHOULD REQUIRE NO MORE THAN 8.5-10 LBS. OF FORCE TO OPEN.
3. FIRE RATING TO MEET OR EXCEED RATING OF DOOR. ALL GLAZING IN FIRE-RATED DOORS TO BE FIRE GLASS COMPLYING WITH ANSI IMPACT REQUIREMENTS.
4. ALL CLOSERS TO HAVE CLOSING SPECS SET 90° - 12° , 5 SECONDS MIN.
5. ALL DOOR HARDWARE TO BE MOUNTED A MIN. OF 34 INCHES ABOVE FINISHED FLOOR AND A MAXIMUM OF 48 INCHES ABOVE FINISHED FLOOR.
6. ALL DOOR OPERATING DEVISES (OTHER THAN PANIC HARDWARE) TO BE LEVER OPERATED.
7. ALL THRESHOLDS TO BE 1/2" MAX. HEIGHT, BEVELED 1:2 SLOPE. ALL GLASS IN DOORS AND WITHIN 24" OF A DOOR TO BE TEMPERED SAFETY GLASS (T) U.N.O.



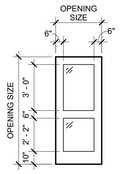
E4 / A601 **TYPICAL DOOR LOCATION PLAN**
Scale : 3/8" = 1'-0"



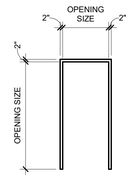
DOOR TYPE A
FLUSH



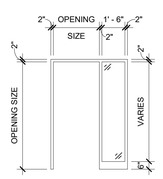
DOOR TYPE B
NARROW LITE



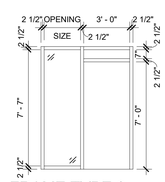
DOOR TYPE D
FULL LITE



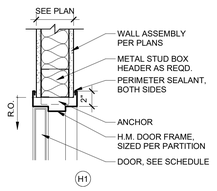
FRAME TYPE 1
HM WELDED FRAME



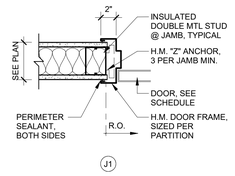
FRAME TYPE 2
HM WELDED FRAME
GLASS TYPE 3 (U.O.N.)



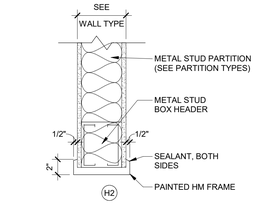
FRAME TYPE 3
HM WELDED FRAME
GLASS TYPE 3 (U.O.N.)



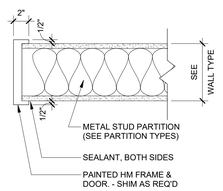
C1 / A601 **TYPICAL DOOR HEAD DETAIL**
Scale : 1 1/2" = 1'-0"



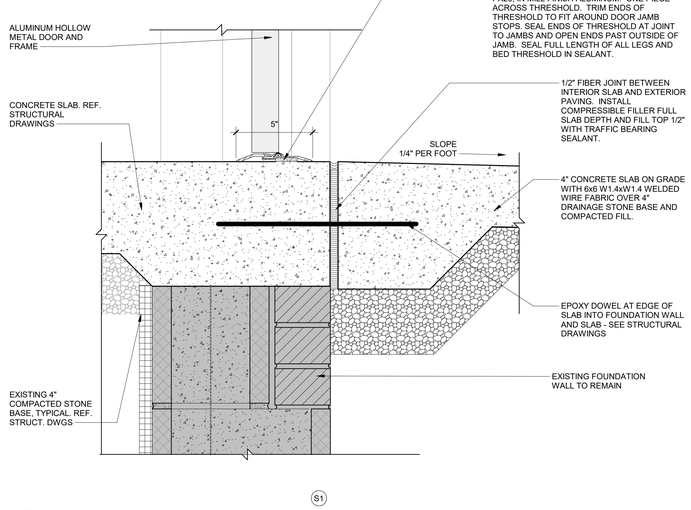
C2 / A601 **TYPICAL DOOR JAMB DETAIL**
Scale : 1 1/2" = 1'-0"



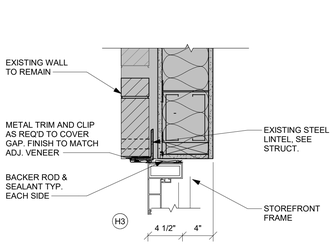
C3 / A601 **FRAME HEAD**
Scale : 1 1/2" = 1'-0"



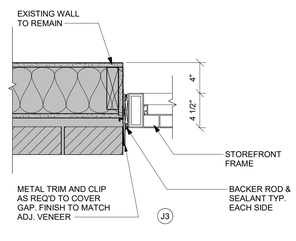
C4 / A601 **FRAME JAMB**
Scale : 1 1/2" = 1'-0"



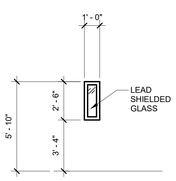
B4 / A601 **EXTERIOR DOOR SILL AT SLABS - S1**
Scale : 3" = 1'-0"



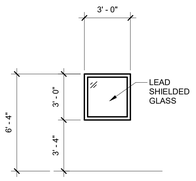
B1 / A601 **ALUMINUM DOOR HEAD DETAIL**
Scale : 1 1/2" = 1'-0"



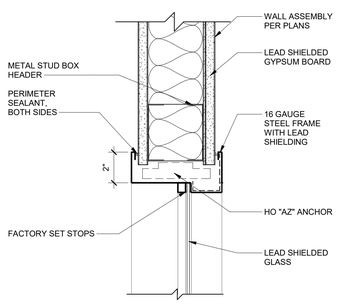
B2 / A601 **ALUMINUM DOOR JAMB DETAIL**
Scale : 1 1/2" = 1'-0"



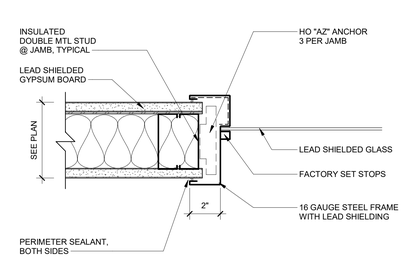
WINDOW TYPE W1
HM WELDED FRAME - LEAD LINED



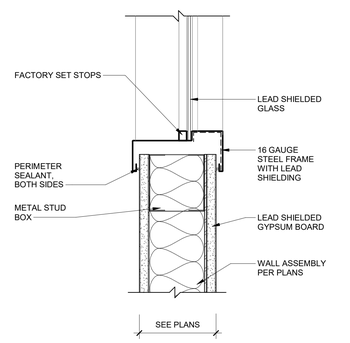
WINDOW TYPE W2
HM WELDED FRAME - LEAD LINED



A1 / A601 **TYPICAL HEAD AT WINDOW**
Scale : 3" = 1'-0"



A2 / A601 **TYPICAL JAMB AT WINDOW**
Scale : 3" = 1'-0"



A3 / A601 **TYPICAL SILL AT WINDOW**
Scale : 3" = 1'-0"

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

DOOR SCHEDULE, WINDOW SCHEDULE & DETAILS

BID SET

ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2025	ISSUED FOR BIDDING

Date	10/12/2026
Scale	As indicated
Drawn	AC
Checked	AB
Approved	AB
Project	25040
Sheet	A601

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ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	WALL FINISHES NORTH	EAST	SOUTH	WEST	BASE	COMMENTS
100	WAITING AREA	RFT-1	PT-1	PT-1	PT-1	PT-1	RB-2	
100A	UNISEX	CT-1	PT-1/ WT-1	PT-1	PT-1	PT-1	TB-1	SEE INTERIOR ELEVATIONS FOR MORE INFORMATION
101	PUBLIC CORRIDOR	RFT-1	PT-1	PT-1	PT-1	PT-1	RB-2	
101A	STORAGE	RFT-1	PT-1	PT-1	PT-1	PT-1	RB-1	
102	RECEPTION	CPT-1	PT-2	PT-2	PT-2	PT-2	RB-1	SEE INTERIOR ELEVATIONS FOR MORE INFORMATION
103	OFFICE MANAGER	CPT-1	PT-1	PT-1	PT-1	PT-1	RB-1	
104	STAFF CORRIDOR	RFT-1	PT-3	PT-3	PT-3	PT-3	RB-1	
104A	UNISEX	CT-1	PT-1	PT-1/ WT-1	PT-1	PT-1	TB-1	SEE INTERIOR ELEVATIONS FOR MORE INFORMATION
104B	UNISEX	CT-1	PT-1	PT-1	PT-1	PT-1/ WT-1	TB-1	SEE INTERIOR ELEVATIONS FOR MORE INFORMATION
105	BREAK ROOM	RFT-1	PT-3, WT-2	PT-3	PT-3	PT-3	RB-1	SEE INTERIOR ELEVATIONS FOR MORE INFORMATION
106	FACULTY OFFICE	CPT-1	PT-2	PT-2	PT-2	PT-1	RB-1	
107	FACULTY OFFICE	CPT-1	PT-2	PT-2	PT-2	PT-1	RB-1	
108	DENTAL SERVICE COORDINATOR	CPT-1	PT-2	PT-2	PT-2	PT-2	RB-2	
109	CONSULT	CPT-1	PT-2	PT-2	PT-2	PT-2	RB-2	
110	STUDENT OPERATORIES	RFT-1	PT-1	PT-1	PT-1	PT-1	RB-2	
111	DENTAL LAB	RFT-2	PT-3	PT-3	PT-3	PT-3	RB-1	
112	INSTRUCTIONAL	RFT-1	PT-1	PT-1	PT-1	PT-1	RB-2	
113	STERILIZATION LAB	RFT-2	PT-3	PT-3	PT-3	PT-3	RB-1	
114	STUDENT OPERATORIES	RFT-1	PT-1	PT-1	PT-1	PT-1	RB-2	
115	DOCTOR AREA	RFT-1	PT-1	PT-1	PT-1	PT-1	RB-2	
116	X-RAYS	RFT-1	PT-1, WP-1	PT-1, WP-1	PT-1, WP-1	PT-1, WP-1	RB-2	SEE INTERIOR ELEVATIONS FOR MORE INFORMATION
117	STAFF CORRIDOR	RFT-1	PT-1	PT-1	PT-3	PT-3	RB-2	
118	COMPUTER LAB	CPT-1	PT-3	PT-3	PT-3	PT-3	RB-1	
119	MAIN STORAGE	RFT-2	PT-3	PT-3	PT-3	PT-3	RB-1	
120	DENTAL MECH.	SC	PT-3	PT-3	PT-3	PT-3	RB-1	

FINISH LEGEND

CEILING FINISHES

ACT-1
ACOUSTICAL CEILING TILE - GENERAL
MFR: ARMSTRONG
STYLE: ULTIMA HIGH NRC
COLOR: WHITE
NUMBER: 1941
TILE SIZE: 24" x 24"
CLASS: A
GRID: PRELUDE 15/16"
EDGE SHAPE: BEVELED TEGULAR

FLOOR FINISHES

SC-1
SEAL CONCRETE
MFR: MANNINGTON COMMERCIAL
COLLECTION: NATURE'S PATH
STYLE: WOOD
COLOR: NORTHERN MAPLE AUTUMN (12120)
SIZE: 4" X 36"
PATTERN: ASHLAR

CPT-1
CARPET TILE
MFR: TARKETT
STYLE: 11442 / SAVEUR
COLOR: QUINTESSENCE 76201
SIZE: 18" x 36"
PATTERN: ASHLAR

CT-1
CERAMIC FLOOR TILE
MFR: DALTILE
COLLECTION: SLATE ATTACHE
COLOR: META DARK GRAY
SIZE: 2" X 2" MOSIAC
GROUT: MAPEI / TBD
TRIM: SCHLUTER-DILEX COVE
AT FLOOR / WALL TILE TRANSITION

RFT-1
RUBBER FLOOR TILE
MFR: INTERFACE
STYLE: NORAVANT TIMBER
COLOR: 7508
SIZE: 48" x 49"
PATTERN: MONOLITH

RFT-2
RUBBER FLOOR TILE
MFR: INTERFACE
STYLE: NORAPLAN ENVIRONCARE
COLOR: 7039 / BABY SHOWER
SIZE: 24" x 24"
PATTERN: MONOLITH

WALL FINISHES

PT-1 (FIELD)
PAINT
MFR: SHERWIN WILLIAMS
FINISH: EGGSHEL
COLOR: SW 7662 / EVENING SHADOW

PT-2 (OFFICE)
PAINT
MFR: SHERWIN WILLIAMS
FINISH: EGGSHEL
COLOR: SW 7043 / WORLDLY GRAY

PT-3 (LABS)
PAINT
MFR: SHERWIN WILLIAMS
FINISH: EGGSHEL
COLOR: SW 7006 / EXTRA WHITE

PT-4 (DOOR FRAME)
PAINT
MFR: SHERWIN WILLIAMS
FINISH: SEMI-GLOSS
COLOR: SW 7045 / INTELLECTUAL GRAY

WP-1
WALL PROTECTION
MFR: KOROGARD
STYLE: P1 DUNE TEXTURE
COLOR: TBD
LOCATION: X-RAY BAYS

CG-1
WALL PROTECTION
MFR: KOROGARD
STYLE: 2" WING
COLOR: TBD
LOCATION: SEE FINISH PLAN

WT-1
CERAMIC WALL TILE
MFR: DALTILE
COLLECTION: SLATE ATTACHE
COLOR: META LIGH GRAY
SIZE: 12" X 24"
GROUT: MAPEI / TBD
TRIM: SCHLUTER-DILEX COVE
AT FLOOR / WALL TILE TRANSITION
FINISH: MATTE
INSTALL PER ELEVATIONS

WT-2
CERAMIC WALL TILE
MFR: DALTILE
COLLECTION: ARTCRAFTED
COLOR: ALOE GREEN
SIZE: 1" X 6"
GROUT: MAPEI / TBD
FINISH: GLOSSY
INSTALL: STACKED VERTICAL

RB-1
RUBBER BASE
MFR: JOHNSONITE
STYLE: TRADITIONAL VINYL 1/8"
COLOR: TBD
PROFILE: 4" WITH TOE

RB-2
RUBBER BASE
MFR: JOHNSONITE
STYLE: MILLWORK
COLOR: TBD
PROFILE: STANCE 6"

TB-1
CERAMIC TILE BASE
MFR: DALTILE
COLLECTION: SLATE ATTACHE
COLOR: META WHITE
SIZE: 3" x 12"
GROUT: MAPEI / TBD
FINISH: MATTE

MILLWORK FINISHES

PLAM-1
PLASTIC LAMINATE
MFR: WILSONART
COLOR: LANDMARK WOOD / 7981K-12
NOTE:
Install Grain Vertical U.N.O.

SS-1
SOLID SURFACE COUNTERTOP
MFR: CORIAN
COLOR: JUNIPER

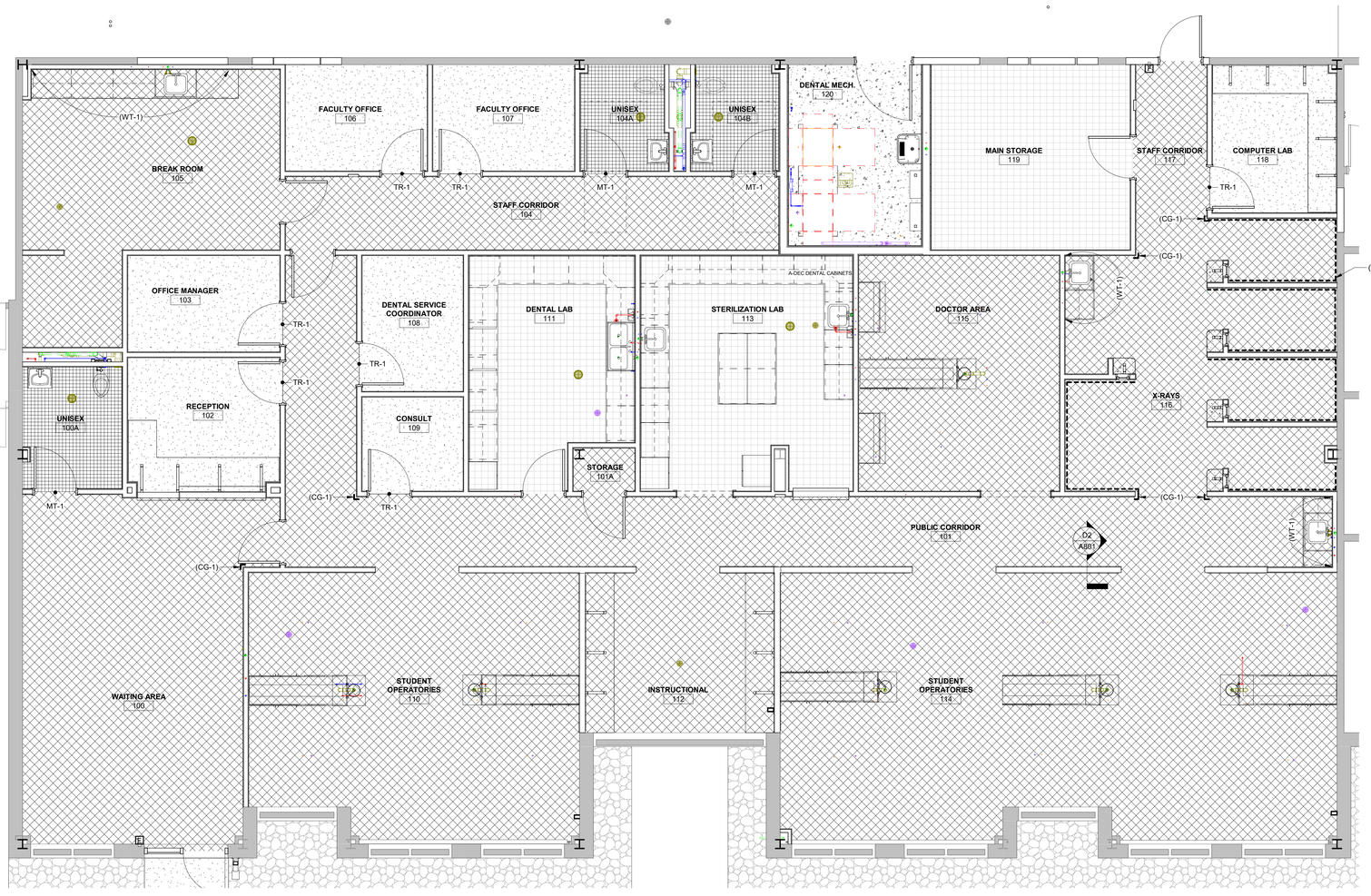
SS-2
SOLID SURFACE COUNTERTOP
MFR: WILSONART
COLOR: PEACE GREY / 9292SS

EX-1
EPOXY COUNTERTOP
MFR: CHEMTOPS
COLOR: BLACK

MISCELLANEOUS

WD-1 (VT INDUSTRIES)
FLUSH WOOD DOORS, TRANSLUCENT FINISH
MATERIAL: WHITE MAPLE
COLOR: UMBER UM24
CUT: PLAIN SLICED
MATCH: BOOK MATCH

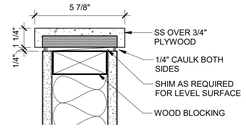
RS-1
ROLLER SHADE
MFR: LUTRON
STYLE: MANUAL, SINGLE CLUTCH
FABRIC: 3% OPACITY BASKETWEAVE ECO2
COLOR: TBD



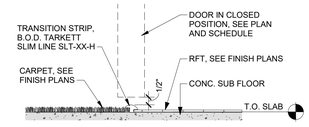
A1 / A801 **FINISH PLAN - NEW WORK**
Scale : 1/4" = 1'-0"

FINISH MATERIAL LEGEND

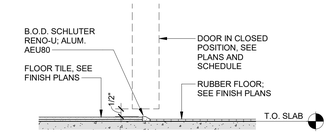
CPT-1 · SC-1
RFT-1 · CT-1
RFT-2 · CG-1
WP-1



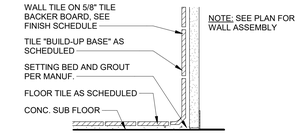
D2 / A801 **WALL CAP DETAIL**
Scale : 3" = 1'-0"



C2 / A801 **TR-1 - CARPET TO RFT TRANSITION**
Scale : 3" = 1'-0"



B2 / A801 **MT-1 - METAL THRESHOLD DETAIL**
Scale : 3" = 1'-0"



A2 / A801 **CERAMIC FLOOR TO WALL TRANSTITION**
Scale : 3" = 1'-0"

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PROJECT
DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER
DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE
19947

FINISH LEGEND, SCHEDULE, & DETAILS

BID SET

PLAN NORTH

ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	As indicated
Drawn	AC
Checked	AB
Approved	AB
Project	25040
Sheet	A801

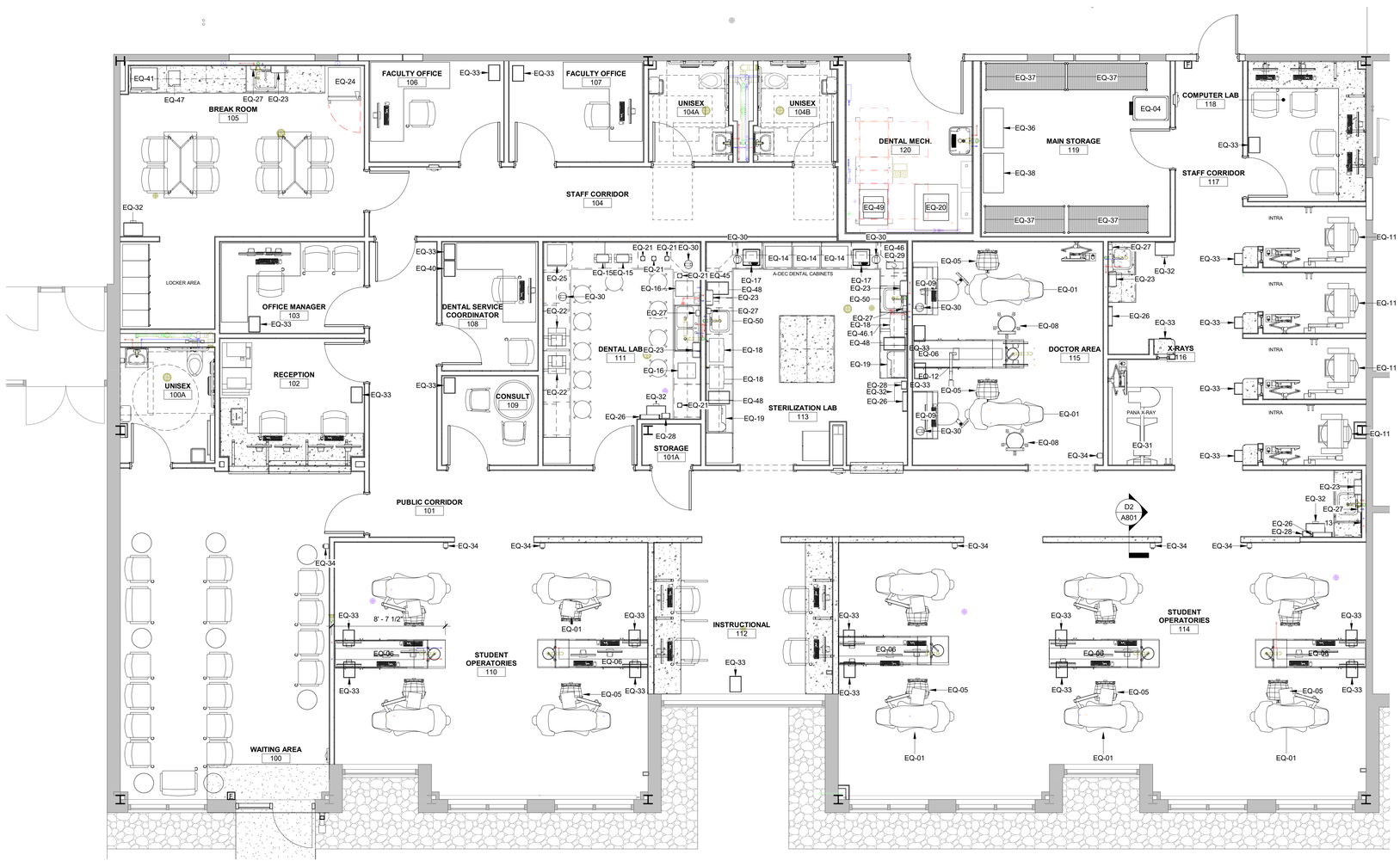
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EQUIPMENT SCHEDULE UPDATED

Type Mark	Description	Model	Manufacturer	Power/Data	HW	CW	Vent	Waste	Vac	Compressed Air	Blocking	Furnishing Responsibility	Installation Responsibility
EQ-01	Chair and Delivery System	A-DEC 511	A-Dec, Inc.	Y	No	No	No	No	1" SCH. 40 PVC	Y	N/A	VENDOR	VENDOR
EQ-03	Light, Dental, Ceiling Mount	577L Track Mount LED Light	A-Dec, Inc.	P	No	No	No	No	No	N/A	Y	VENDOR	VENDOR
EQ-04	Supply Cart			N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-05	Stool: Dental, Doctor	521 Doctor's Stool	A-Dec, Inc.	N/A	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-06	Console, Dental: Central	592 Inspire Central Console (100" Full)	A-Dec, Inc.	Y	1/2"	1/2"	2" Combo Waste/Vent	2" Combo Waste/Vent	No	Y	N/A	VENDOR	VENDOR
EQ-08	Stool: Dental, Assistant	A-dec 522 Dental Assistant's Stool	A-dec, Inc.	N/A	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-09	Console, Dental, Full	Inspire 391 Full Treatment Console	A-dec, Inc.	Y	No	No	No	No	1" SCH. 40 PVC W/ 3/8" VALVE	Y	Y	VENDOR	VENDOR
EQ-11	Chair, Clinical: Exam, Dental	Galaxy Century Plus Series Chairs 3225	Galaxy Manufactory	N/A	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-12	X-Ray Unit, Dental: Intraoral, Digital	Preva DC (58 inch Reach/2-Stud Mounting)	Midmark Corporation - Dental	Y	No	No	No	No	No	N/A	Y	VENDOR	VENDOR
EQ-14	Sterilizer: Countertop	Lexa Sterilizer 110V	Henry Schein	Y	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-15	Lathe: Dental Polishing	26 Red Wing Lathe	Handler Mfg Company, Inc.	P	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-16	Trimmer: Dental, Wet	Model Trimmer with Solenoid	Patterson Dental Supply	P	No	1/2" W/ 3/8" Valve	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-17	Printer	NEED CONFIRMATION		?	No	No	No	No	No	?	?	VENDOR	OWNER
EQ-18	Countertop Ultrasonic Cleaner without Heater, 6.5 Gallon	Quantrex 650, Patterson	Midmark	P	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-19	Sterilizer: Dental, Cassette	Statim 5000 G4	Scican, Inc.	P	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-20	Dental Air Compressor		Henry Schein	P	No	No	No	No	No	Y	N/A	VENDOR	CONTRACTOR
EQ-21	Mixer: Dental, Vibrating	3-Speed Heavy Duty Vibrator	Patterson Dental Supply	P	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-22	Forming Machine: Vacuum	MiniSTAR S with Scan Technology	Great Lakes Dental Technologies	P	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-23	Touchless Paper Towel Dispenser	NEED TO CONFIRM WITH EVS		N/A	No	No	No	No	No	N/A	N/A	CONTRACTOR	CONTRACTOR
EQ-24	19.2 cu.ft. Top Freezer Refrigerator - Stainless Steel	GTS19KYNRFS	GE	P	No	No	No	No	No	No	N/A	CONTRACTOR	CONTRACTOR
EQ-25	Refrigerator, Domestic	Countertop	Kenmore	P	No	No	No	No	No	N/A	N/A	VENDOR	OWNER
EQ-26	Glove Box Holder (3 wire box)	MediChoice Plastic [1773MC166530]	Midmark	N/A	No	No	No	No	No	N/A	N/A	VENDOR	CONTRACTOR

EQUIPMENT SCHEDULE UPDATED

Type Mark	Description	Model	Manufacturer	Power/Data	HW	CW	Vent	Waste	Vac	Compressed Air	Blocking	Furnishing Responsibility	Installation Responsibility
EQ-27	Soap Dispenser	CONFIRM WITH EVS	Midmark	N/A	No	No	No	No	No	N/A	N/A	CONTRACTOR	CONTRACTOR
EQ-28	Mask Dispenser		Midmark	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-29	Cleaner, Handheld	Assistina One	Darby	P	No	No	No	No	No	Y	N/A	OWNER	OWNER
EQ-30	Curing Light	Maxima RU1200 LED	Henry Schein	P	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-31	X-Ray Unit, Dental: Panographic	ProOne Digital	Planmeca USA, Inc.	Y	No	No	No	No	No	N/A	Y	OWNER	OWNER
EQ-32	Waste Can - 13 gal	Slim Jim Resin Front Step 13 Gal/Beige	Rubbermaid	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-33	Waste Can - 4 gal	2956 Deskside Medium (28 qt Beige)	Rubbermaid	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-34	Hand Sanitizer Dispenser	Purell ADX-12 1200mL White	GOJO Industries	N/A	No	No	No	No	No	N/A	N/A	OWNER	CONTRACTOR
EQ-35	Apron Rack, Single	R-526 (Single Apron)	AADCO Medical Inc.	N/A	No	No	No	No	No	N/A	Y	OWNER	CONTRACTOR
EQ-36	Cabinet, File: High Density	SMS-37-6236A3	Southwest Solutions Group, Inc.	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-37	Shelving, Stainless Steel	InterMetro 72x24x63	InterMetro	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-38	5 Drawer Lateral Filing Cabinet	SMS-37-C846H	Southwest Solutions Group, Inc.	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-39	Shredder: Paper, Light Duty	3227901	Fellowes Inc.	P	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-40	Waste Can: Recycle	2956-73 Deskside Medium (Blue)	Rubbermaid Commercial Products	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-41	Microwave	PEM31SFSS	GE Appliances	P	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-43	Wall Mounted Computer Station with worksurface, screen mount, and CPU Holder	239140BK	Global Industrial	Y	No	No	No	No	No	No	Y	CONTRACTOR	CONTRACTOR
EQ-44	Commercial Copy Machine	Commercial Copy Machine	BIMsmith Generics	?	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-45	Sterilization Center	Inspire 594 Sterlization Center	A-Dec, Inc.	Y	1/2"	1/2"	2"	2"	1" SCH. 40 PVC W/ 3/8" VALVE	Y	Y	VENDOR	VENDOR
EQ-46	Sterilization Center, L	Inspire 594 Sterlization Center	A-Dec, Inc.	Y	1/2"	1/2"	2"	2"	1" SCH. 40 PVC W/ 3/8" VALVE	Y	Y	VENDOR	VENDOR
EQ-46.1	Handpiece Maintenance System	Included in Sterilization Center	A-Dec										
EQ-47	Coffee Maker	K150P Commercial Brewing System - Plumbed	Keurig	Y	No	1/2"	No	No	No	N/A	N/A	OWNER	CONTRACTOR
EQ-48	Draining Basket, Ultrasonic	L&R Ultrasonics # 17954	Benco Dental	N/A	No	No	No	No	No	N/A	N/A	OWNER	OWNER
EQ-49	Dental Vacuum Pump		Henry Schein	P	No	Y	No	No	Y	No	No	VENDOR	CONTRACTOR
EQ-50	Water Purification Device	Vistapure	Vistapure	N/A	No	Y	No	No	No	No	No	VENDOR	VENDOR



A1/A902 **EQUIPMENT & FURNITURE PLAN**
Scale : 1/4" = 1'-0"

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

EQUIPMENT & FURNITURE PLAN

BID SET

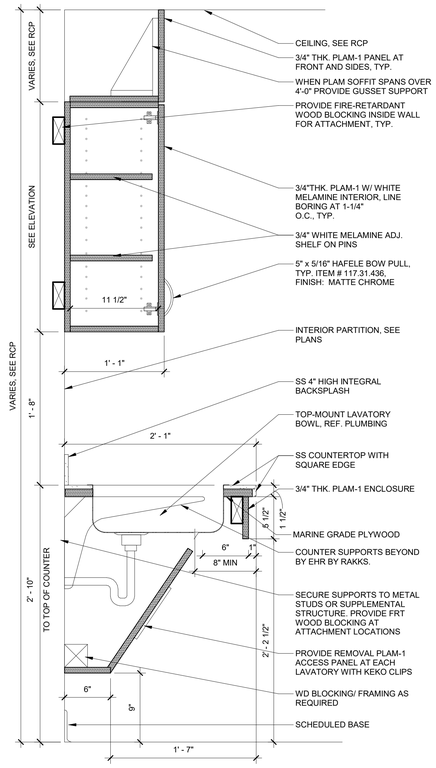
PLAN NORTH

ISSUED FOR

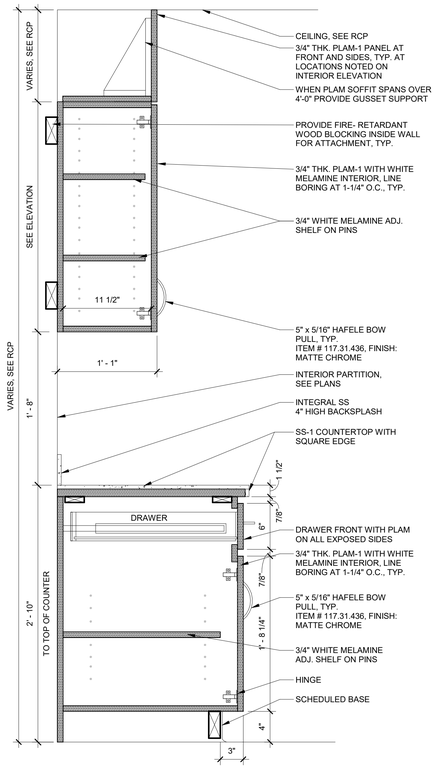
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Scale	1/4" = 1'-0"
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Checked	AB
Approved	AB
Project	25040
Sheet	A902

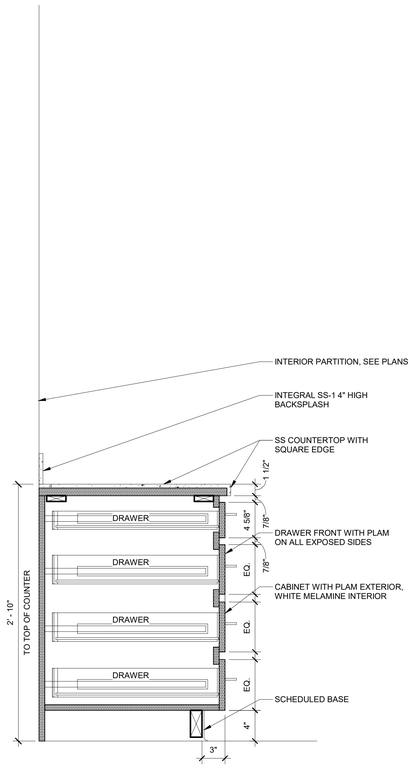
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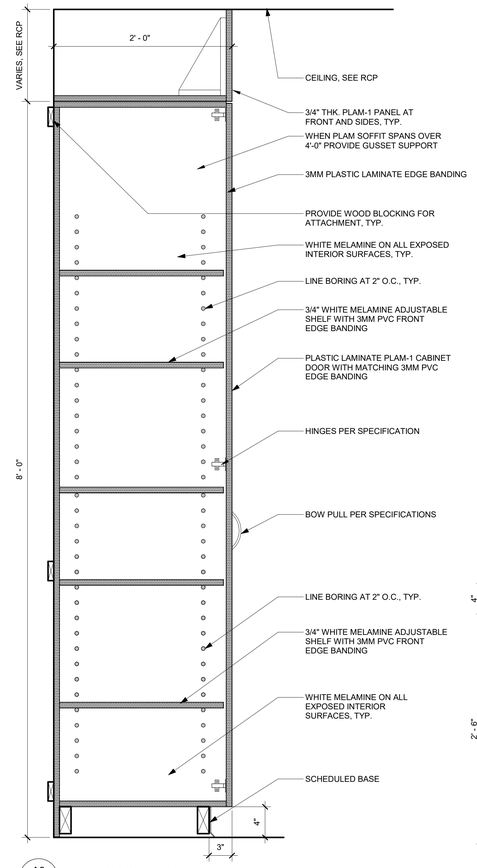
C1 / A910 **SINK & SS COUNTERTOP WITH WALL CABINET**
Scale : 1 1/2" = 1'-0"



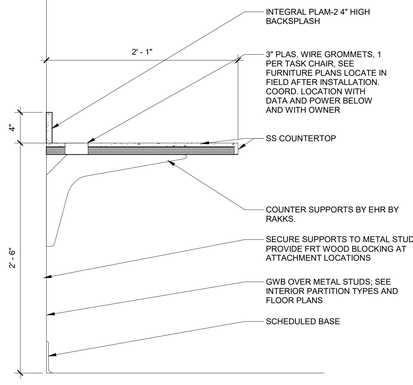
C2.1 / A910 **BASE CABINET & SS COUNTERTOP WITH WALL CABINET**
Scale : 1 1/2" = 1'-0"



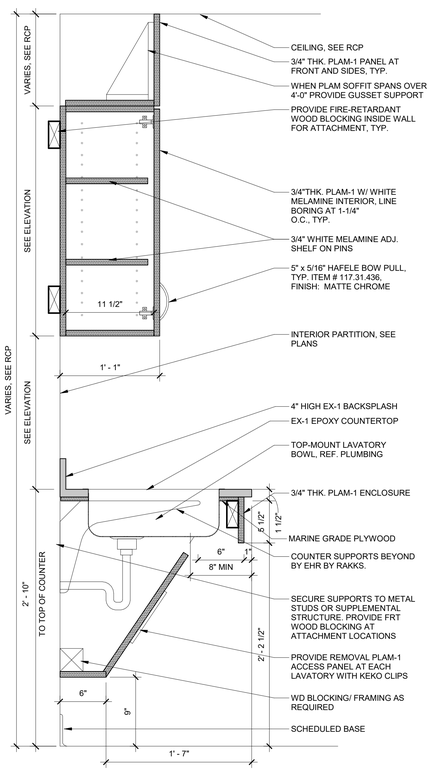
C3 / A910 **BASE CABINET 4 DRAWER & SS COUNTERTOP**
Scale : 1 1/2" = 1'-0"



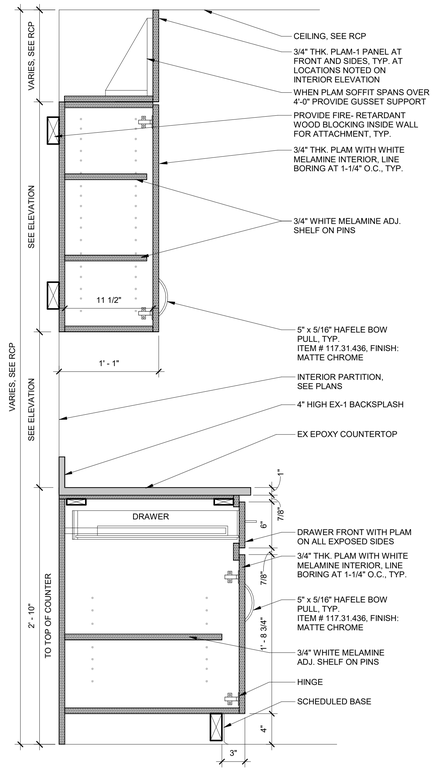
A3 / A910 **TALL STORAGE CABINET**
Scale : 1 1/2" = 1'-0"



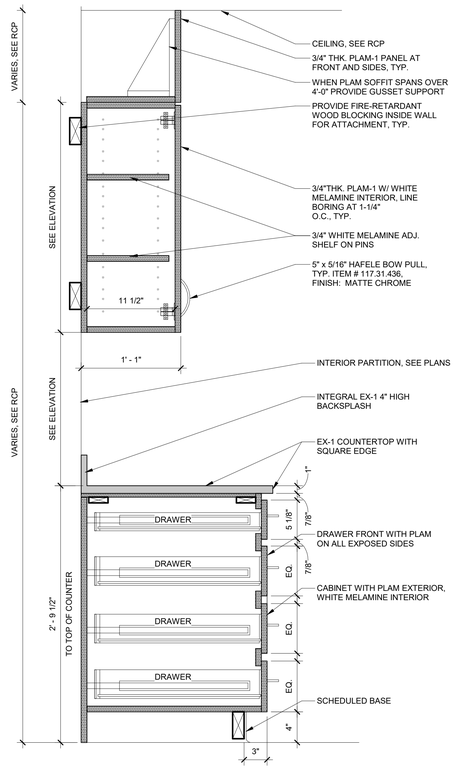
C2 / A910 **WORKSTATION COUNTERTOP**
Scale : 1 1/2" = 1'-0"



A2 / A910 **SINK & EPOXY COUNTERTOP WITH WALL CABINET**
Scale : 1 1/2" = 1'-0"



A1 / A910 **BASE CABINET & EPOXY COUNTERTOP WITH WALL CABINET**
Scale : 1 1/2" = 1'-0"



A4 / A910 **BASE CABINET 4 DRAWER & EPOXY COUNTERTOP WITH WALL CABINET**
Scale : 1 1/2" = 1'-0"

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DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

CASEWORK SECTIONS

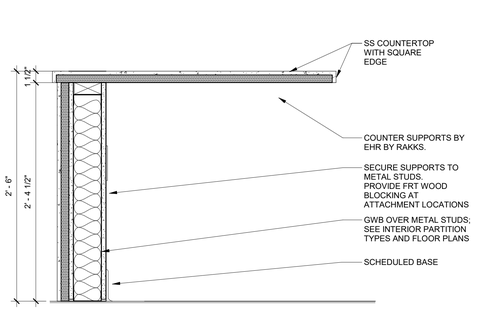
BID SET

ISSUED FOR

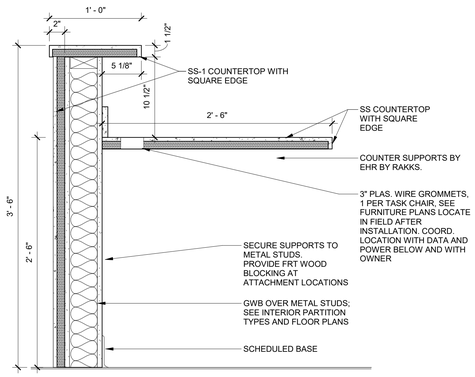
NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	1 1/2" = 1'-0"
Drawn	AC
Checked	AB
Approved	AB
Project	25040
Sheet	A910

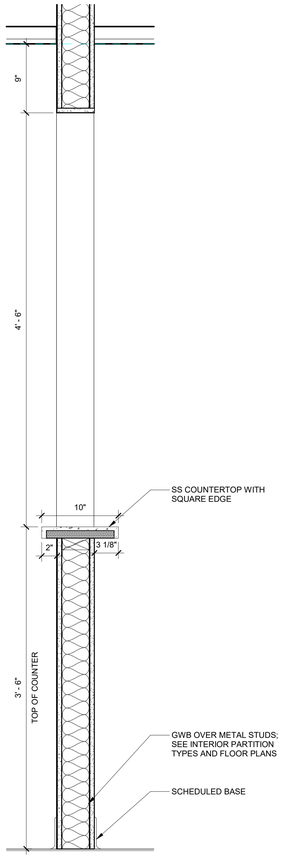
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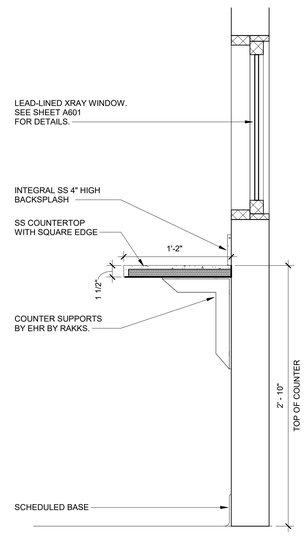
A1 / A911 **RECEPTION DESK - ADA COUNTEROP AREA**
Scale : 1 1/2" = 1'-0"



A2 / A911 **RECEPTION DESK & HIGH TRANSACTION TOP**
Scale : 1 1/2" = 1'-0"



A3 / A911 **STERILIZATION WALL OPENING COUNTERTOP**
Scale : 1 1/2" = 1'-0"



A4 / A911 **X-RAY BAY COUNTERTOP**
Scale : 1 1/2" = 1'-0"

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PROJECT
DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER
DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

CASEWORK SECTIONS

BID SET

PLAN NORTH

ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/15/2026	ISSUED FOR BIDDING

Date	10/12/2026
Scale	1 1/2" = 1'-0"
Drawn	Author
Checked	Checker
Approved	Approver
Project	25040
Sheet	**A911**

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HVAC DESIGN DATA

A. TOTAL SPACE COOLING LOAD (BTUH) = 87,112 BTUH

B. TOTAL VENTILATION COOLING LOAD (BTUH) = 65,231 BTUH

C. TOTAL SPACE HEATING LOAD (BTUH) = 59,069 BTUH

D. TOTAL VENTILATION HEATING LOAD (BTUH) = 79,547 BTUH

E. OUTDOOR DESIGN CONDITIONS

1. SUMMER:
   a. DRY-BULB TEMPERATURE = 93°F
   b. WET-BULB TEMPERATURE = 78°F
2. WINTER:
   a. DRY-BULB TEMPERATURE = 10°F

F. INDOOR DESIGN CONDITIONS

1. OFFICE, CONFERENCE, CLASS ROOMS, AND DENTAL AREAS
   a. DRY-BULB TEMPERATURE
      - SUMMER = 75°F ± 5°F
      - WINTER = 72°F ± 5°F
   b. RELATIVE HUMIDITY (PASSIVE CONTROL)
      - SUMMER = 65% MAXIMUM
      - WINTER = 25% MINIMUM
2. MEP ROOMS
   a. DRY-BULB TEMPERATURE
      - SUMMER = 105°F MAXIMUM
      - WINTER = 60°F MINIMUM
   b. RELATIVE HUMIDITY = NO CONTROL
3. UNOCCUPIED OR TRANSIENT SPACES (CORRIDORS, BATHROOMS, STORAGE CLOSETS).
   a. DRY-BULB TEMPERATURE = 65-96°F
      - RELATIVE HUMIDITY = NO CONTROL

GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

FIRE PROTECTION SYMBOLS

- FP-D — FIRE PROTECTION DRY
- FP-O — FIRE PROTECTION OTHER
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET
- FP-DOM-W — COMBINATION FIRE & DOMESTIC
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- 'D' REPRESENTS DRY SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD / EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- 48"x18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER

PLUMBING AND PIPING SYMBOLS

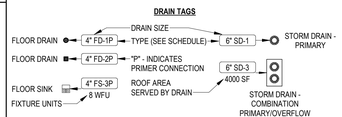
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- G — NATURAL GAS
- REF-L — REFRIGERANT-LIQUID
- REF-S — REFRIGERANT-SUCTION
- R/S — REF (2-PIPE BUNDLE)
- CWV — COMBINATION WASTE & VENT
- CA — COMPRESSED AIR
- CW — DOMESTIC COLD WATER
- F-CW — FILTERED COLD WATER
- RO — REVERSE OSMOSIS WATER
- HW — HOT WATER
- HW 140° — HOT WATER 140°
- HW-R — HOT WATER RECIRCULATION
- HW-R 140°- — HOT WATER RECIRCULATION 140°
- IW — INDIRECT WASTE
- PD — PUMP DISCHARGE
- V — SANITARY VENT
- SS — SANITARY SEWER
- SD — STORM DRAINAGE
- OSD — OVERFLOW STORM DRAINAGE

PIPE DROP, PIPE RISE, PIPE TEE, CAP; 4", 2", 4"; CONCRETE ENCASED CLEANOUT, PLUG, REDUCING 45 DEGREE TEE, 45 DEGREE TEE

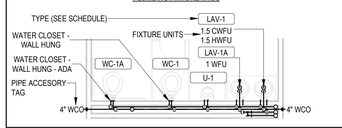
PIPE ACCESSORY TAGS

- DOMESTIC WATER METER
- BALANCING VALVE
- 1/4 TURN BALL VALVE
- CHECK VALVE
- 3-WAY MIXING VALVE
- MOTORIZED CONTROL VALVE
- 3 WAY MOTORIZED CONTROL VALVE
- PRESSURE REDUCING VALVE
- 1/2" PETE'S PLUG
- BUTTERFLY VALVE

DRAIN TAGS



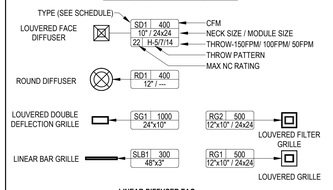
PLUMBING FIXTURE TAGS



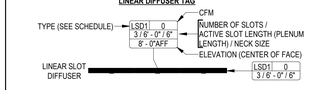
HVAC SYMBOLS

- 16"x8" — SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
- 16"Ø — ROUND DUCT SIZE TAG (DIAMETER)
- (E) — EXISTING DUCT TAG
- DUCT BEING DEMOLISHED
- 16"Ø S/A — SUPPLY AIR
- 16"Ø O/A — OUTSIDE AIR
- 16"Ø R/A — RETURN AIR
- 16"Ø T/A — TRANSFER AIR
- 16"Ø E/A — EXHAUST AIR
- 16"Ø L/A — RELIEF AIR
- DROP — RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — ROUND SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
- DROP — ROUND RETURN/TRANSFER AIR DUCT RISE
- DROP — RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
- DROP — ROUND EXHAUST/RELIEF AIR DUCT RISE

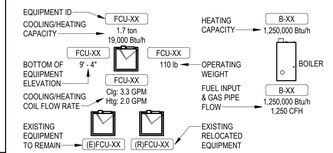
GRILLES, REGISTERS & DIFFUSERS TAG



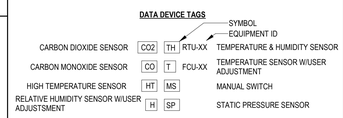
LINEAR DIFFUSER TAG



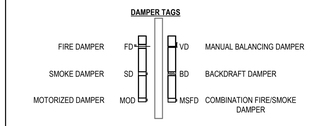
MECHANICAL EQUIPMENT TAGS



DATA DEVICE TAGS



DAMPER TAGS



HVAC GENERAL NOTES

A	REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
B	THE CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AND IN REGISTERS AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL INSPECTION.

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PG	PROPYLENE GLYCOL
EA	EACH	PLBG	PLUMBING
EA	ETHYL ALCOHOL	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FDV	FIRE DEPARTMENT VALVE	RL/A	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FPM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	T	THERMOSTAT
GW	GREASE WASTE	TA	TRANSFER AIR
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VRF	VARIABLE REFRIGERANT FLOW
LB/HR	POUNDS PER HOUR	VTR	VENT THROUGH ROOF
LAT	LEAVING AIR TEMPERATURE	W	WASTE
LP	LOW PRESSURE	WB	WET BULB
LPG	LIQUEFIED PETROLEUM GAS	WCO	WALL CLEAN OUT
		WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FH	FUME HOOD
B	BOILER	FP	FIRE PUMP
BT	BUFFER TANK	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
DBP	DOMESTIC WATER BOOSTER PUMP	PRV	POWER ROOF VENTILATOR
DC	DUCT MOUNTED COIL	RE	RETURN/EXHAUST FAN
DCP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
ERHP	ELECTRIC RADIANT HEAT PANEL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE

21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

MECHANICAL TITLE SHEET

ISSUE FOR BID

PLAN NORTH / TRUE NORTH

ISSUED FOR

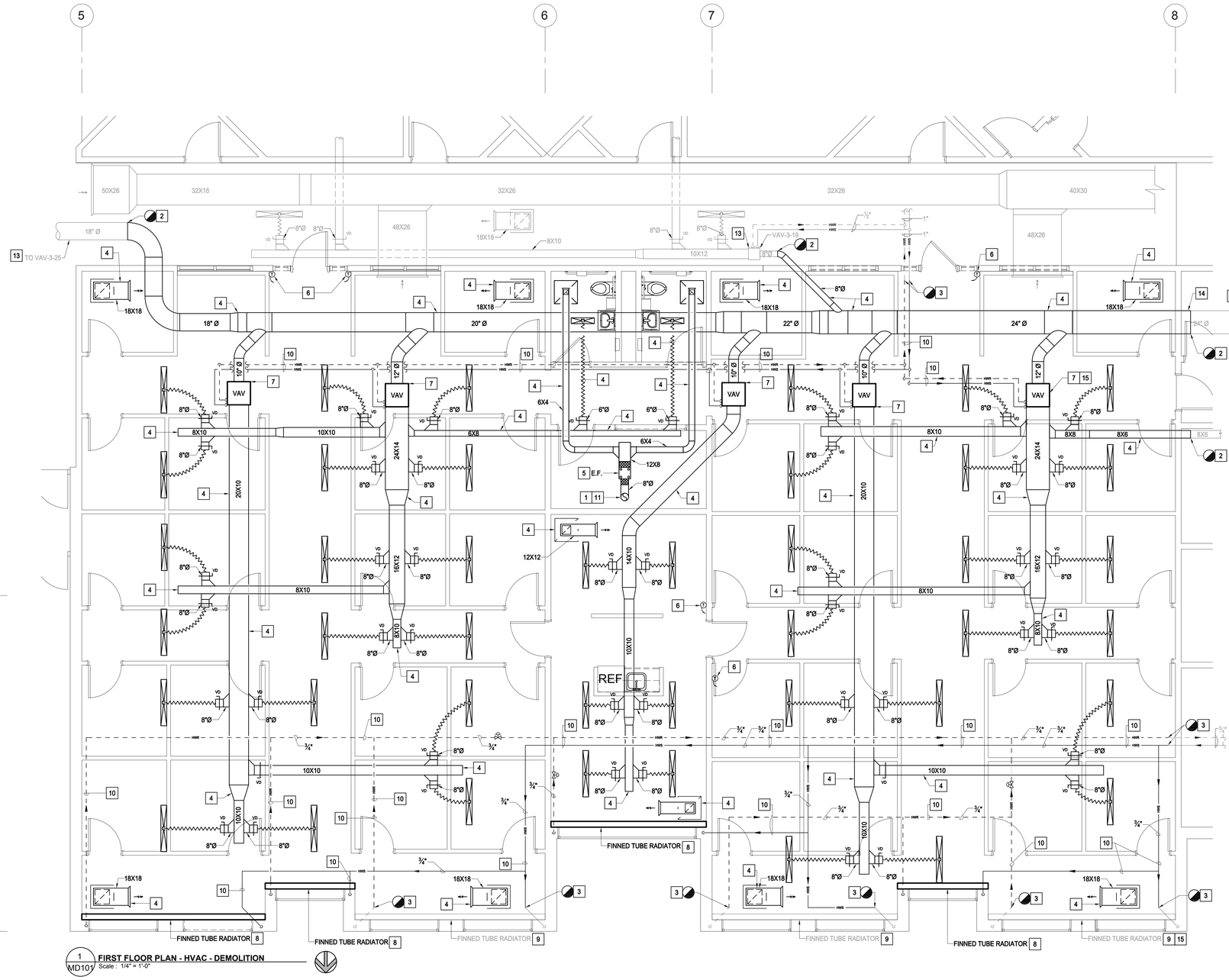
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1	10/15/2026	Issue for Bid

Date	10/12/2026
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Checked	DRH
Approved	DRH
Project	25040
Sheet	M001

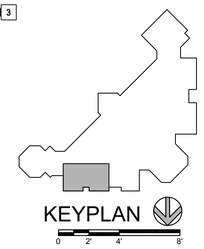
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DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. 8"Ø UP TO EXHAUST HOOD ON ROOF, FOR CONTINUATION SEE MD102.
2. REMOVE DUCT TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
3. REMOVE PIPE TO POINT INDICATED AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
4. REMOVE ALL DUCTWORK, SUPPORTS, DAMPERS, INSULATION AND AIR DEVICES.
5. REMOVE FAN, DUCTWORK, SUPPORTS, CONTROLS, REGISTER AND ROOF HOOD.
6. REMOVE THERMOSTAT, CONTROL WIRING AND/OR TUBING.
7. REMOVE VAV BOX AND ALL ASSOCIATED PIPING, DUCTWORK, INSULATION AND CONTROLS.
8. REMOVE FINNED TUBE RADIATOR AND ALL ASSOCIATED PIPING, SUPPORT AND CONTROLS.
9. FINNED TUBE RADIATOR TO REMAIN AND BE RE-UTILIZED. REMOVE ENCLOSURE AND CLEAN FINNED TUBE ELEMENT. RE-INSTALL ENCLOSURE. REFER TO NEW WORK PLANS FOR NEW PIPING AND CONTROLS.
10. REMOVE PIPING AND ALL ASSOCIATED VALVES, FITTINGS, INSULATION AND SUPPORTS.
11. REMOVE ROOF HOOD AND ALL ASSOCIATED DUCTWORK, DAMPERS AND CURB.
12. REMOVE EXISTING VAV AHU-3 DUCT MOUNTED STATIC PRESSURE CONTROLLER AND ALL ASSOCIATED WIRING AND CONTROLS. NEW DUCT MOUNTED STATIC PRESSURE CONTROLLER SHALL BE PROVIDED UNDER NEW WORK AND INTERLOCKED WITH EXISTING VAV AHU-3 SUPPLY FAN VARIABLE FREQUENCY DRIVE.
13. TEST AND BALANCE EXISTING VAV BOX UNDER NEW WORK. REFER TO SCHEDULE.
14. TEST AND BALANCE EXISTING AHU-3 UNDER NEW WORK. REFER TO SCHEDULE.
15. PRE-TEST ALL HEATING WATER COILS IN VAV BOXES AND FINNED TUBE RADIATORS BEFORE DEMOLITION. SUBMIT FLOW RATE DATA TO ENGINEER. TYPICAL FOR ALL VAV BOXES AND FINNED TUBE RADIATORS IN THE AREA WHERE DEMOLITION IS OCCURRING.



1 MD101 **FIRST FLOOR PLAN - HVAC - DEMOLITION**
Scale : 1/4" = 1'-0"



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PROJECT

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21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

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19947

FIRST FLOOR PLAN - HVAC - DEMOLITION

ISSUE FOR BID

PLAN NORTH

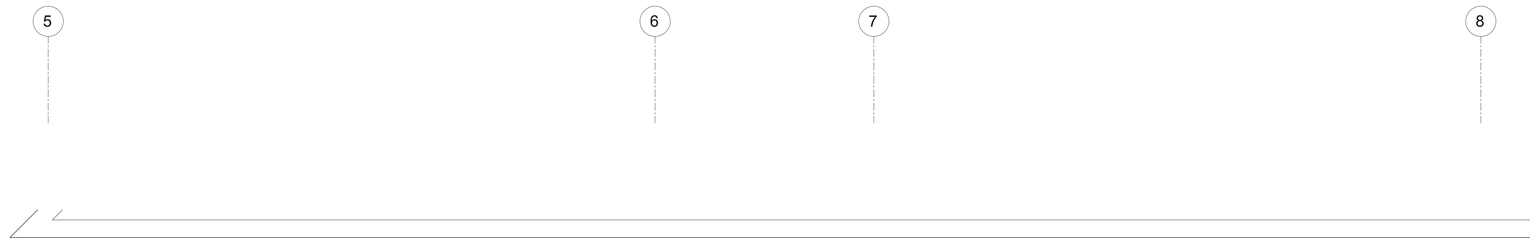
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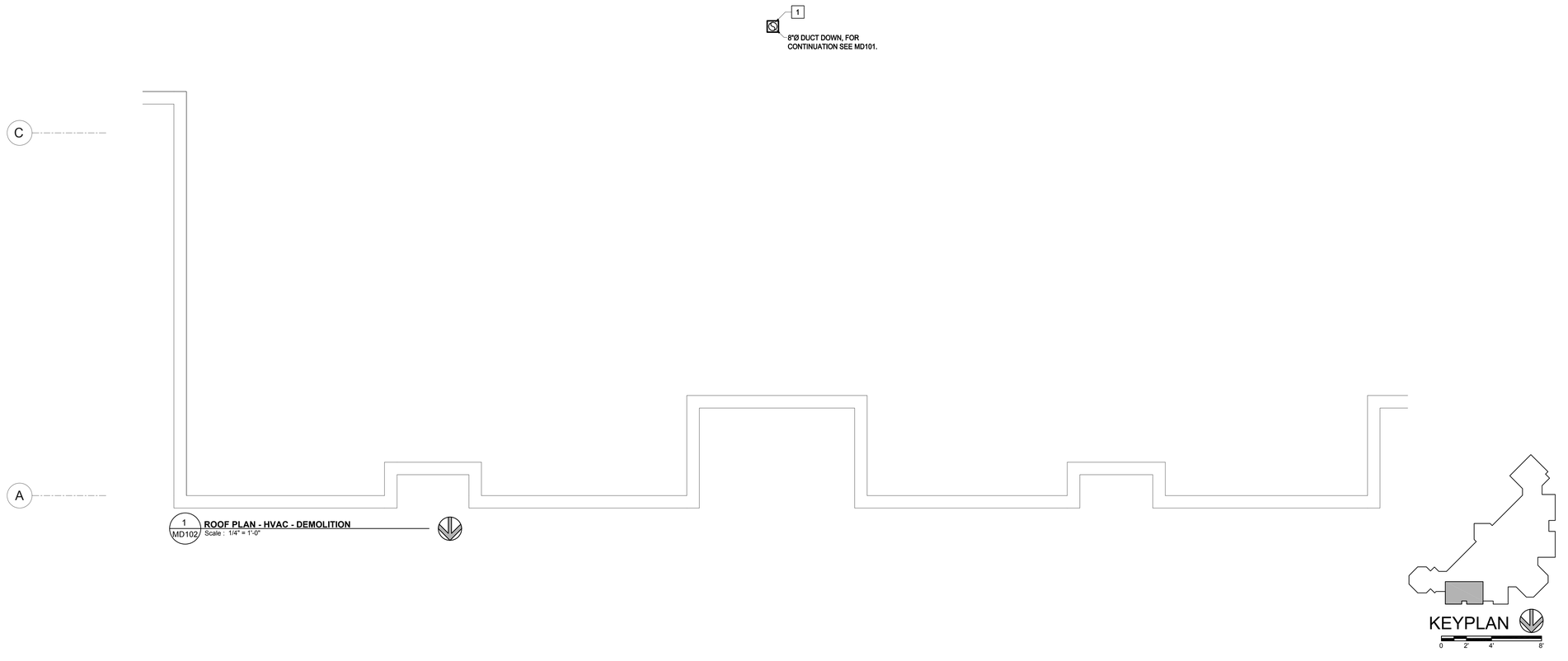
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Date	10/12/2026
Scale	AS NOTED
Drawn	RAK
Checked	DRH
Approved	DRH
Project	25040
Sheet	**MD101**

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1 REMOVE ROOF HOOD AND ALL ASSOCIATED DUCTWORK, DAMPERS AND CURB.





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ROOF PLAN - HVAC - DEMOLITION

ISSUE FOR BID

PLAN NORTH

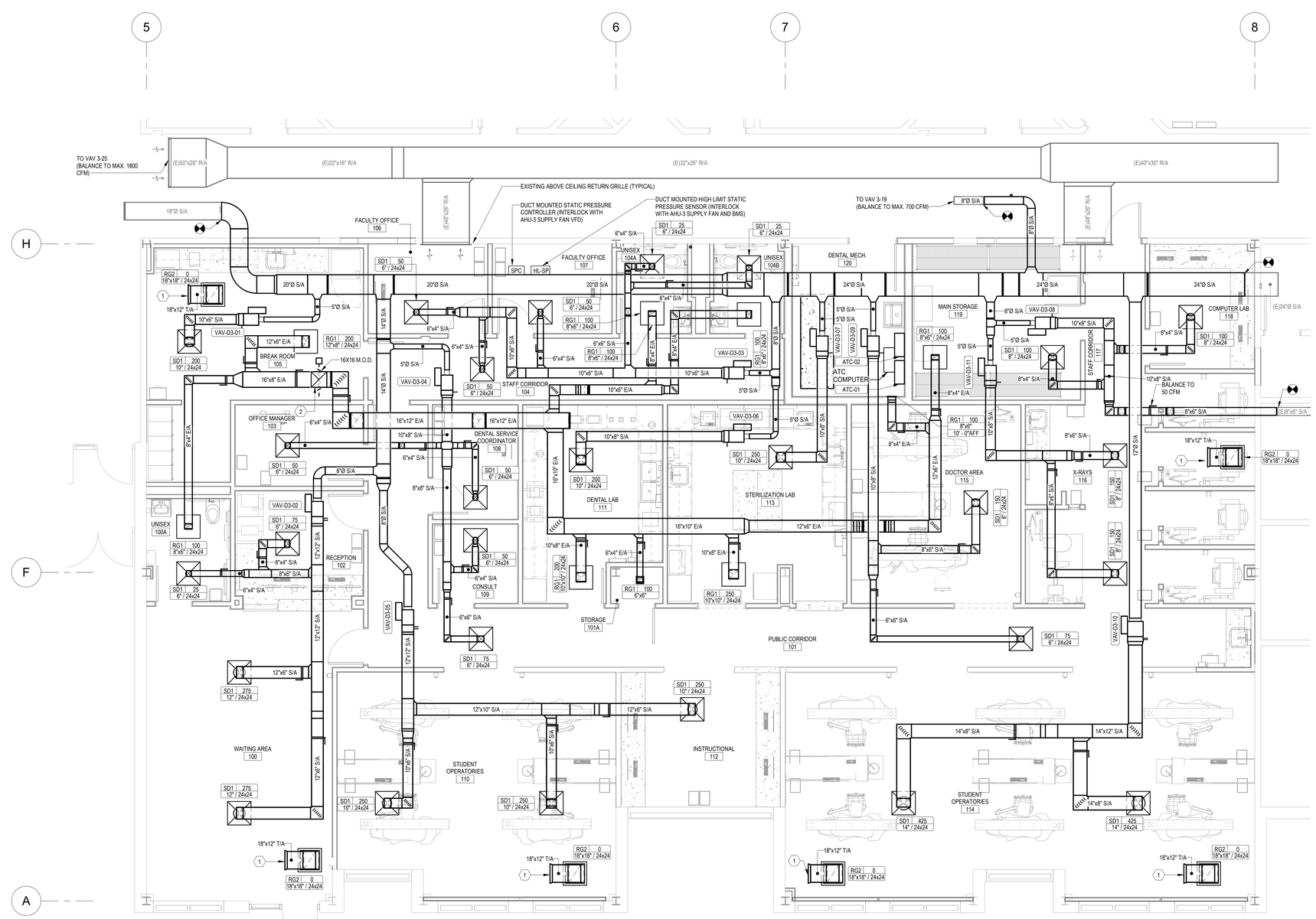
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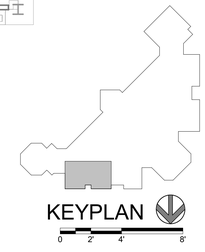
Date	10/12/2026
Scale	AS NOTED
Drawn	RAK
Checked	DRH
Approved	DRH
Project	25040
Sheet	**MD102**

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KEYNOTES	
1	18X12 O.E.D. (W/SOUNDLINED TRANSFER AIR DUCTWORK)
2	16X16 E.A. DUCT UP TO EF-1 ON ROOF. FOR CONTINUATION SEE DWG. M102.



1 / M101 **FIRST FLOOR PLAN - HVAC - NEW WORK**
Scale : 1/4" = 1'-0"



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FIRST FLOOR PLAN - HVAC - NEW WORK

ISSUE FOR BID

PLAN NORTH

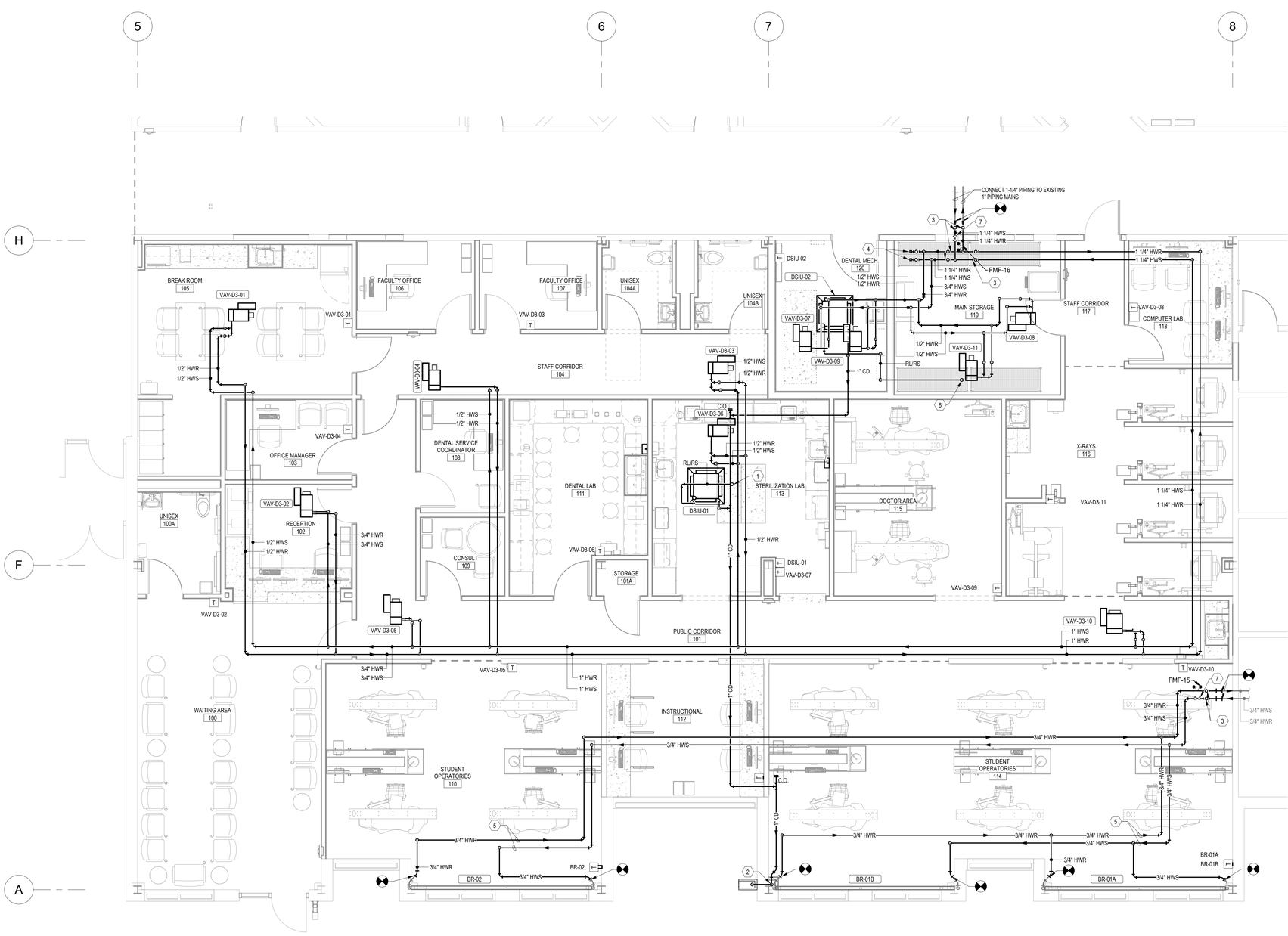
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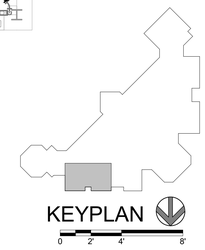
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Project	25040
Sheet	**M101**

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KEYNOTES	
1	RL & RS PIPING UP TO DSOU-1 ON ROOF. FOR CONTINUATION SEE DWG. M102.
2	1" CD PIPING DOWN IN CHASE. DISCHARGE TO CONCRETE SPLASHBLOCK.
3	HYDRONIC ZONE SHUT-OFF VALVES. REFER TO DETAIL.
4	1-1/4" HWS & HWR PIPING VALVED AND CAPPED FOR FUTURE.
5	BASEBOARD RADIATOR 2-WAY CONTROL VALVE AND TRIM SHALL BE LOCATED ABOVE CEILING IN ACCESSIBLE LOCATION. REFER TO DETAIL.
6	RL & RS PIPING UP TO DSOU-2 ON ROOF. FOR CONTINUATION SEE DWG. M102.
7	BALANCE VALVE WITH MEMORY STOP AND FULL SHUT-OFF CAPABILITIES.



1 MP101 **FIRST FLOOR PLAN - MECHANICAL PIPING - NEW WORK**
Scale : 1/4" = 1'-0"



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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
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GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
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FIRST FLOOR PLAN - MECHANICAL PIPING - NEW WORK

ISSUE FOR BID

PLAN NORTH

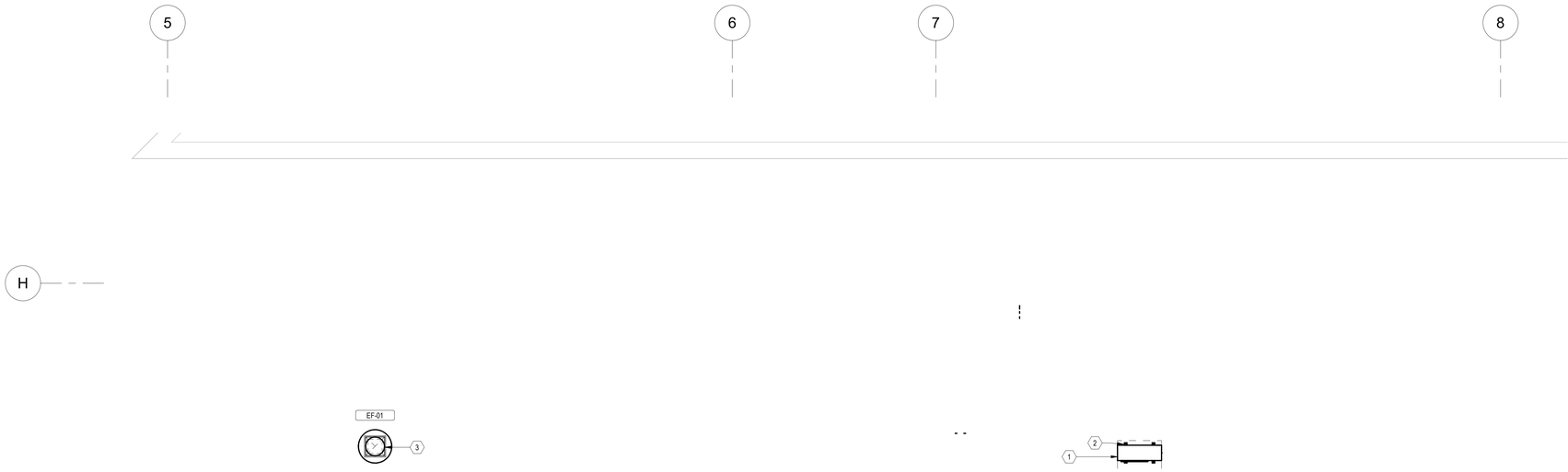
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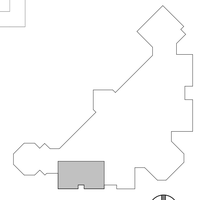
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Sheet	MP101

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KEYNOTES	
1	RL & RS PIPING DOWN THROUGH ROOF CURB. SEE DWG. MP101 FOR CONTINUATION.
2	PROVIDE CURB EXTENSION FOR MOUNTING OF ELECTRICAL DISCONNECT (REFER TO DETAIL).
3	16X16 E.A. DUCT DOWN THROUGH ROOF CURB. SEE DWG. M101 FOR CONTINUATION.



1 M102 **ROOF PLAN - HVAC - NEW WORK**
Scale : 1/4" = 1'-0"



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ROOF PLAN - HVAC - NEW WORK

ISSUE FOR BID

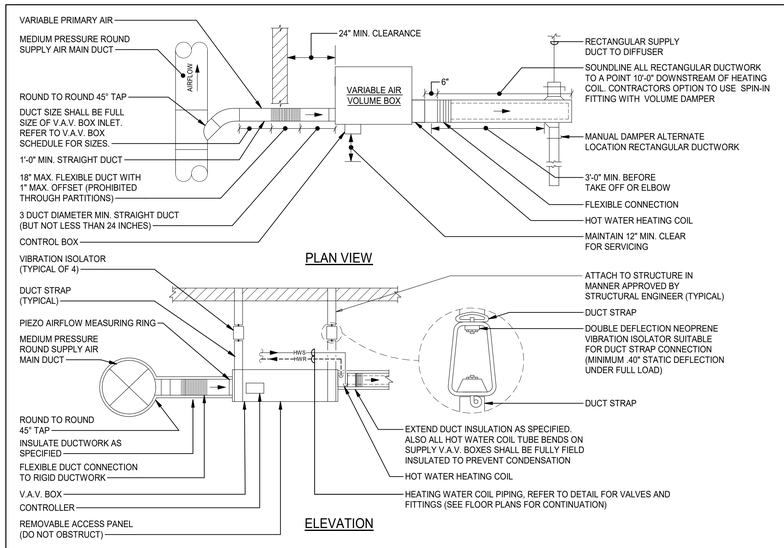
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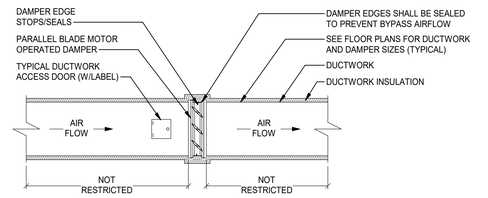
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1 DETAIL - TYPICAL SINGLE DUCT PRESSURE INDEPENDENT SUPPLY V.A.V. BOX

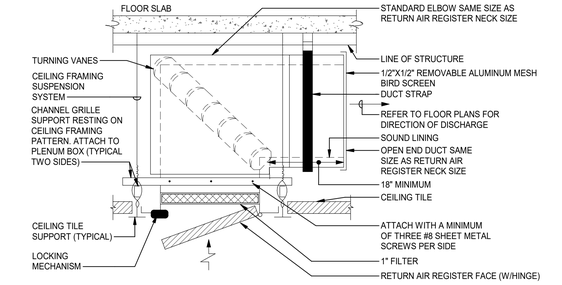


PARALLEL BLADE - 2-POSITION CONTROL DAMPER

NOTES:

1. MOUNT DAMPER ACTUATOR IN ACCESSIBLE LOCATION ON SIDE OF DUCTWORK.
2. MARK SHAFTS OF ALL DAMPERS SO THAT THE DAMPER POSITION CAN BE DETERMINED BY VIEWING THE SHAFT.

2 DETAIL - TYPICAL DUCTWORK MOUNTED CONTROL DAMPER



3 DETAIL - TYPICAL CEILING PLENUM RETURN AIR REGISTER (W/FILTER)

NOTES:

1. "T" BAR SUPPORT WIRES SHOULD BE INSTALLED AT EACH CORNER OF THE REGISTER.
2. SUPPORT SHOULD BE INSTALLED TO ISOLATE DUCT TENSION FROM REGISTER.
3. PAINT DUCTWORK BEHIND AIR DEVICE WITH 2 COATS OF FLAT BLACK PAINT.

4 DETAIL - TYPICAL CEILING MOUNTED AIR REGISTER

NOTES:

1. "T" BAR SUPPORT WIRES SHOULD BE INSTALLED AT EACH CORNER OF THE DIFFUSER
2. SUPPORT SHOULD BE INSTALLED TO ISOLATE DUCT TENSION FROM DIFFUSER.
3. PAINT DUCTWORK BEHIND AIR DEVICE WITH 2 COATS OF FLAT BLACK PAINT.

5 DETAIL - TYPICAL CEILING MOUNTED DIFFUSER

NOTES:

1. ALL SEAMS AND SPIN IN FITTINGS SHALL BE SEALED WITH HARD CAST PRIOR TO TESTING.
2. DUCTWORK CONSTRUCTION SHALL CONFORM TO THE MOST RECENT SMACNA STANDARD - HVAC DUCT CONSTRUCTION STANDARDS.
3. PROVIDE INSULATED STAND-OFFS AT VOLUME DAMPERS INSTALLED IN INSULATED DUCT SYSTEMS.
4. FURNISH AND INSTALL ADEQUATELY SIZED DUCT ACCESS DOORS AT ALL FIRE DAMPERS, AIR MEASURING DEVICES, MOTOR-OPERATED DAMPERS, DUCT SMOKE DETECTORS, AND OTHER LOCATIONS WHERE INDICATED AND REQUIRED FOR DUCT ACCESS.
5. INSTALL PINK RIBBON AT ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS.
6. LABEL ALL DUCT ACCESS DOORS.
7. PAINT BEHIND ALL AIR DEVICES WITH TWO (2) COATS OF FLAT BLACK PAINT.
8. VOLUME DAMPERS SERVING AIR DEVICES SHALL BE INSTALLED AS FAR AS POSSIBLE FROM AIR DEVICE TO MANAGE NOISE.

6 DETAIL - TYPICAL SUPPLY, EXHAUST, OR RETURN DUCT OFFSET, TRANSITION AND DUCT ACCESS DOORS

NOTES:

1. HEATING WATER SUPPLY CONNECTIONS SHALL BE ARRANGED FOR COUNTER FLOW HEAT TRANSFER BETWEEN AIR AND FLUID.
2. ALL PIPE, VALVES, & FITTINGS SHALL BE ARRANGED SO AS NOT TO INTERFERE WITH COIL ACCESS OR REMOVAL.

7 PIPING DETAIL - HEATING WATER COIL W/2-WAY PRESSURE INDEPENDENT CONTROL VALVE (VAV BOX)

8 DETAIL - INDOOR CEILING MOUNTED DUCTLESS SPLIT SYSTEM WITH ROOF MOUNTED OUTDOOR UNIT

NOTES:

1. REFRIGERANT PIPES SHALL EXIT/ENTER PIPE CURB ONLY IN HORIZONTAL POSITION.
2. SEAL ALL PIPE CURB PENETRATIONS AND INSTALL STAINLESS STEEL ESCUTCHEON PLATES.
3. ORIENT UNITS PER MANUFACTURER'S REQUIREMENTS FOR LOW AMBIENT COOLING.

9 DETAIL - ROOF MOUNTED OUTDOOR DUCTLESS SPLIT SYSTEM

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DETAILS - HVAC

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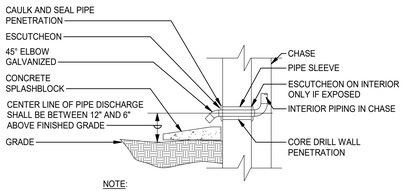
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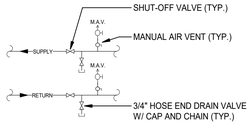
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NOTE:

1. PAINT EXTERIOR GALVANIZED 45° ELBOW TO MATCH BUILDING EXTERIOR WALL COLOR.

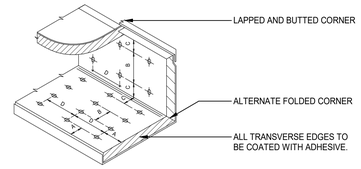
1 DETAIL - A/C CONDENSATE DRAIN DISCHARGE DETAIL



NOTE:

1. ASSEMBLY SHOWN SHALL BE INSTALLED AT ALL SHUT-OFF VALVE LOCATIONS THAT ISOLATE ZONES OR PROVIDE CONVENIENCE VALVES ON PIPING MAINS. SEE FLOOR PLANS FOR LOCATIONS.
2. INSTALL ADDITIONAL MANUAL AIR VENTS AT ALL HIGH POINTS OF THE PIPING SYSTEMS.

2 DETAIL - TYPICAL HYDRONIC ZONE SHUT-OFF VALVE ASSEMBLY

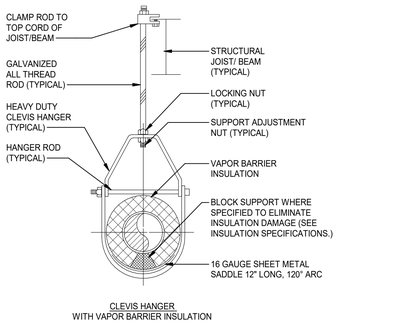


VELOCITY	MAX SPACING FOR FASTENERS			
	A	B	C	D
LOW - 2 INCH S.P. AND LESS	3"	12"	4"	18"
MED.- 3 INCH S.P. & GREATER	3"	6"	4"	16"

NOTES:

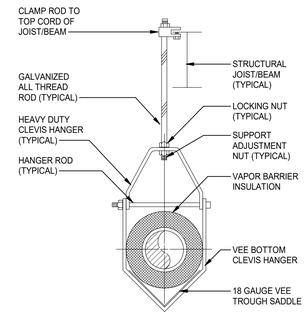
1. LINER ADHERED TO THE DUCT WITH 90% MINIMUM AREA COVERAGE OF ADHESIVE.
2. THE VELOCITY RATED SIDE OF THE LINER MUST FACE THE AIR FLOW.
3. PROVIDE GALVANIZED PERFORATED LINER ON ON TOP OF SOUND LINING.

3 DETAIL - TYPICAL FLEXIBLE DUCT LINER INSTALLATION



CLEVIS HANGER
WITH VAPOR BARRIER INSULATION

4 DETAIL - TYPICAL INDIVIDUAL PIPE SUPPORT

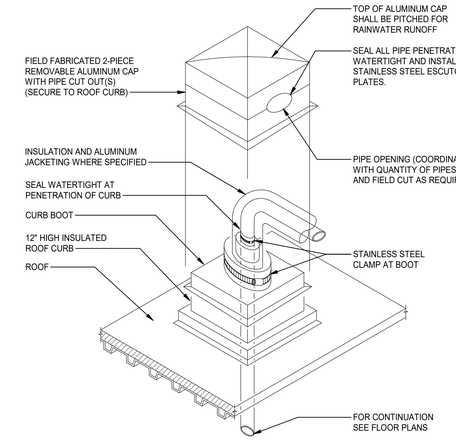


VEE TROUGH AND VEE CLEVIS HANGER
(WITH VAPOR BARRIER INSULATION)

NOTES:

1. SUPPORT BOTH ENDS OF VEE TROUGH WITH HANGER.
2. COORDINATE LENGTH OF VEE TROUGH.
3. UTILIZE FOR ALL REFRIGERANT PIPING LESS THAN 3/4" DIAMETER.

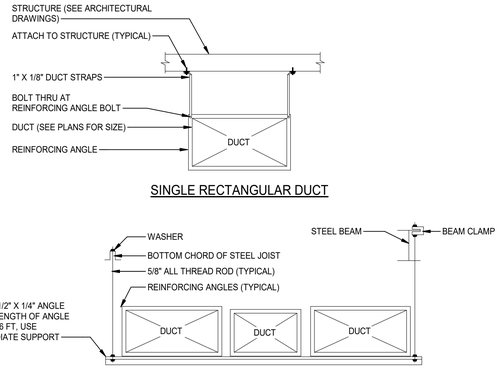
5 DETAIL - TYPICAL INDIVIDUAL PIPE SUPPORT FOR REFRIGERANT PIPING



NOTES:

1. PROVIDE ADDITIONAL BOOTS FOR MULTIPLE PIPE PENETRATIONS THROUGH ROOF.
2. PROVIDE SLOPED CURBS TO MATCH ROOF PITCH WHERE REQUIRED.
3. MECHANICALLY SECURE ROOF CURB TO STRUCTURE.

6 DETAIL - TYPICAL PIPING THROUGH ROOF DECK



SINGLE RECTANGULAR DUCT

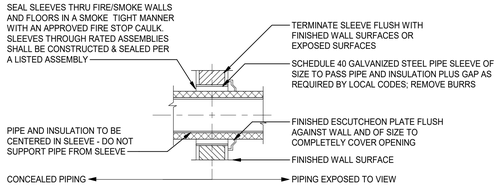
* USE THIS METHOD WHENEVER DUCTS CAN BE GROUPED TOGETHER

MULTIPLE DUCT RUNS
ON TRAPEZE HANGERS

NOTE:

1. DUCTS SHALL BE SUPPORTED PER SMACNA STANDARDS

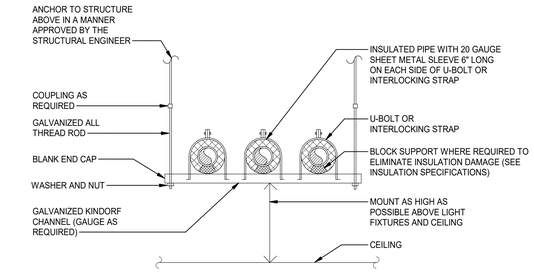
7 DETAIL - TYPICAL INSTALLATION OF HANGERS AND SUPPORTS FOR DUCTWORK



NOTE:

1. FOR INTERIOR FRAME PARTITIONS - PIPE SLEEVES MAY BE FABRICATED FROM GALVANIZED SHEET METAL; ROUND TUBE CLOSED WITH SNAPLOCK JOINT, WELDED SPIRAL SEAMS, OR WELDED LONGITUDINAL JOINT. FABRICATE FROM THE FOLLOWING GAUGES: 3" AND SMALLER, 20 GAUGE; 4" TO 6", 16 GAUGE; OVER 6", 14 GAUGE.

8 DETAIL - TYPICAL PIPE SLEEVE THRU INTERIOR WALL



NOTES:

1. ALL PIPING SUPPORT SYSTEM COMPONENTS SHALL HAVE A NON-CORROSIVE METAL FINISH, GALV-KROM OR EQUAL.
2. COORDINATE CROSS PIPING WITH MECHANICAL PIPING ROUTED IN CORRIDORS & SPRINKLER PIPING MAINS CROSSING IN CORRIDORS.

9 DETAIL - TYPICAL TRAPEZE PIPING SUPPORT

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DETAILS - HVAC

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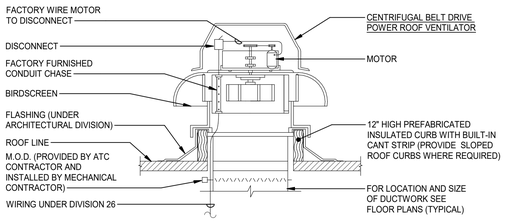
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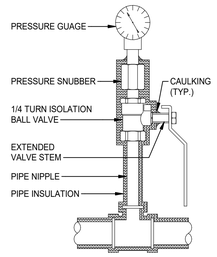
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NOTE:

1. REFER TO SCHEDULE TO DETERMINE IF FAN IS DIRECT DRIVE OR BELT DRIVE.

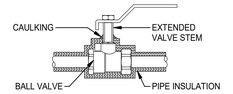
1 DETAIL - TYPICAL CENTRIFUGAL BELT DRIVE POWER ROOF VENTILATOR



NOTE:

1. FOR SYSTEMS OPERATING BELOW THE DEWPOINT TEMPERATURE OF THE AMBIENT AIR, REPLACE THE CAULKING WITH WATERPROOF MASTIC TO PREVENT CONDENSATION.
2. SEE HYDRONIC PUMP DETAILS FOR ADDED PETE'S PLUG CONFIGURATION.

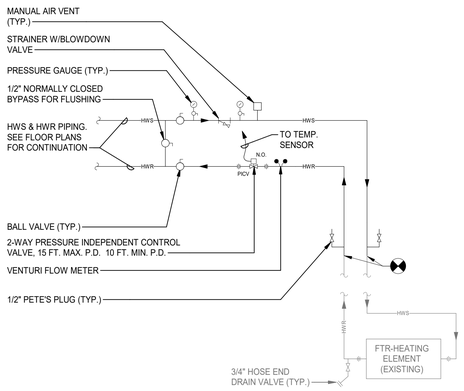
2 DETAIL - TYPICAL PRESSURE GAUGE INSTALLATION



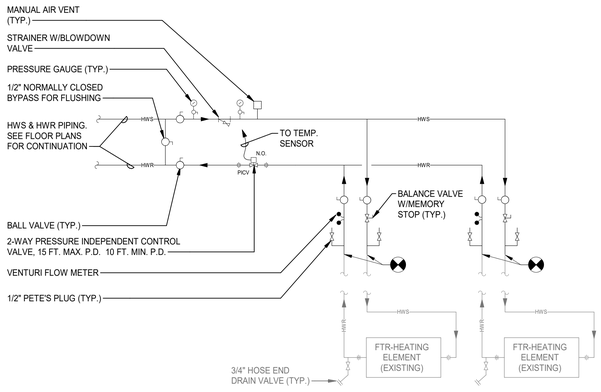
NOTES:

1. FOR SYSTEMS OPERATING BELOW THE DEWPOINT TEMPERATURE OF THE AMBIENT AIR, REPLACE CAULKING WITH WATERPROOF MASTIC TO PREVENT CONDENSATION.
2. EXTENDED VALVE STEM TO BE INSTALLED FOR ANY HANDLE OPERATED VALVE WHERE HANDLE OPERATION MAY TEAR THE PIPE INSULATION.

3 DETAIL - EXTENDED VALVE STEM INSTALLATION



110 STUDENT OPERATORIES



114 STUDENT OPERATORIES

NOTES:

1. VALVES FOR FINNED TUBE RADIATION SHALL BE LOCATED ABOVE ACCESSIBLE CEILING WHERE INDICATED.
2. WHERE MULTIPLE FINNED TUBE RADIATORS ARE INSTALLED IN PARALLEL UTILIZING A SINGLE CONTROL VALVE PROVIDE INDIVIDUAL ISOLATION VALVES, BALANCE VALVES AND FLOW METER FITTINGS AS DETAILED ABOVE.

4 DETAIL - TYPICAL FINNED TUBE RADIATION/CONVECTION PIPING W/ TWO-WAY PRESSURE INDEPENDENT CONTROL VALVE

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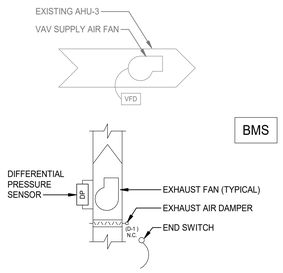
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Sheet	M303

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ATC CONTROL SEQUENCE

A. GENERAL

1. WHENEVER THE EXHAUST AIR FAN IS ENERGIZED, ASSOCIATED MOTOR OPERATED DAMPER, D-1 SHALL BE IN WIDE OPEN POSITION.
2. THE MOTOR OPERATED DAMPER SHALL FAIL IN THE CLOSED POSITION
3. PROVIDE DIFFERENTIAL PRESSURE SENSOR OR CURRENT SENSOR TO DETERMINE STATUS OF EACH EXHAUST AIR FAN.

B. AUTOMATIC CONTROL

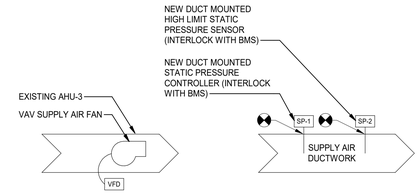
1. THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE EXISTING VAV AIR HANDLING UNIT-3. SO THAT ANYTIME AHU-3 IS IN OCCUPIED MODE EF-1 SHALL OPERATE AND WHEN AHU-3 IS IN UNOCCUPIED MODE EF-1 SHALL DE-ENERGIZE.
2. WHENEVER EXISTING VAV AHU-3 IS IN OCCUPIED MODE THE EXHAUST FAN SHALL BE ENERGIZED. THE EXHAUST AIR DAMPER, D-1 SHALL MODULATE TO WIDE OPEN POSITION. WHEN DAMPER IS PROVED OPEN VIA END SWITCH, THE EXHAUST AIR FAN SHALL ENERGIZE AND RUN CONTINUOUSLY.
3. WHEN AHU-3 IS IN UN-OCCUPIED MODE, THE EXHAUST FAN SHALL BE DE-ENERGIZED AND EXHAUST AIR DAMPER, D-1 SHALL CLOSE.

ATC POINTS LIST

EQUIPMENT OR SYSTEM	DAMPER - TWO POSITION	EQUIPMENT STATUS	GRAPHIC DISPLAY	START & STOP	TIME PROGRAM	TOTAL RUN TIME OF EXHAUST FAN
EXHAUST FAN (INTERLOCKED WITH EXISTING VAV AHU-3)	●	●	●	●	●	●

NOTE:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATIONS.
2. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

1 CONTROLS - EXHAUST FAN AT DENTAL LABS



ATC CONTROL SEQUENCE

A. GENERAL

1. PROVIDE NEW DUCT MOUNTED STATIC PRESSURE CONTROLLER AND INTERLOCK WITH EXISTING AHU-3 SUPPLY FAN VFD AND BMS.
2. INTERLOCK NEW DUCT MOUNTED STATIC PRESSURE CONTROLLER AND MONITOR TO GOVERN THE FAN SPEED OF EXISTING AHU-3.
3. PROVIDE A DUCT MOUNTED MANUAL RE-SET HIGH LIMIT STATIC PRESSURE SENSOR (SP-2) IN SUPPLY DUCTWORK TO AHU-3 THAT SHALL DE-ENERGIZE AHU-3 WHEN THE HIGH LIMIT STATIC PRESSURE SETPOINT IS REACHED OF +3.0 INCHES W.G. (ADJUSTABLE). AN AUDIBLE AND VISUAL ALARM WITH SILENCE SWITCH SHALL ANNUNCIATE UPON ACTIVATION OF THE HIGH LIMIT STATIC PRESSURE SENSOR (SP-2). ALARM MESSAGE SHALL BE SENT TO THE BMS SYSTEM CONTROL MONITORING LOCATION.

A. OCCUPIED CYCLE:

1. A DUCT MOUNTED STATIC PRESSURE CONTROLLER, SP-1 STRATEGICALLY LOCATED AT THE FAR RUN OF SUPPLY AIR DUCTWORK DOWNSTREAM OF THE AHU, SHALL, THROUGH THE BMS CONTROL SYSTEM, MODULATE THE SUPPLY FAN SPEED RESPECTFULLY TO MAINTAIN A SCHEDULED AIR FLOW (CFM) DIFFERENTIAL BETWEEN THE SUPPLY AND RETURN AIR, PLUS SUFFICIENT SUPPLY AIR STATIC PRESSURE. THE DUCT MOUNTED STATIC PRESSURE CONTROLLER SHALL MAINTAIN A PRE-SET FIELD DETERMINED STATIC PRESSURE AT THE POINT OF MEASUREMENT BY VARYING THE SPEED OF THE SUPPLY AIR FAN.
2. PROVIDE GRAPHIC DISPLAY OF STATIC PRESSURE CONTROLLER AND VARIABLE FREQUENCY DRIVE.

AHU-3 INTERLOCK SCHEDULE

AHU NO.	EXHAUST AIR FAN NO.
AHU-3	EF-1

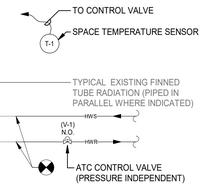
NOTE:
1. ANYTIME THE AHU-3 OPERATES IN OCCUPIED MODE, THE INTERLOCKED EF-1 SHALL BE ENERGIZED TO PROVIDE CODE REQUIRED EXHAUST AIRFLOW.

ATC POINT LIST

EQUIPMENT OR SYSTEM	GRAPHIC DISPLAY	STATIC PRESSURE CONTROLLER (DISPLAY IN INCHES W.G	HIGH LIMIT DUCT STATIC PRESSURE SENSOR AND ALARM	VARIABLE FREQUENCY DRIVE	VARIABLE FREQUENCY DRIVE SPEED AND AMPERAGE
EXISTING VAV AIR HANDLING UNIT (AHU-3)	●	●	●	●	●

NOTES:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SPECIFIED SEQUENCE OF OPERATION DESCRIBED IN THE SPECIFICATIONS.
2. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

2 CONTROLS - EXISTING VAV AIR HANDLING UNIT-3



ATC CONTROL SEQUENCE

FINNED TUBE RADIATION, HOT WATER TYPE (2-WAY CONTROL VALVE)

A. GENERAL

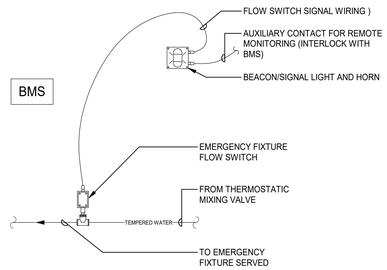
1. ALL FINNED TUBE CONTROL VALVES SHALL BE NORMALLY OPEN TYPE AND SHALL FAIL IN THE FULLY OPEN POSITION.
2. ON A FALL IN ROOM TEMPERATURE TO 68 DEGREES F (ADJUSTABLE), THE SPACE TEMPERATURE SENSOR, T-1 SHALL MODULATE ATC CONTROL VALVE, V-1 TO MAINTAIN A SPACE TEMPERATURE OF 72 DEGREES F (ADJUSTABLE). THE REVERSE SEQUENCE SHALL OCCUR UPON A RISE IN SPACE TEMPERATURE ABOVE SET POINT.
3. ON A RISE IN OUTSIDE AIR TEMPERATURE ABOVE 55 DEGREES F THE FINNED TUBE RADIATION SHALL BE DE-ENERGIZED.

ATC POINTS LIST

EQUIPMENT OR SYSTEM	CONTROL VALVE (HEATING WATER) (2-WAY MODULATING, PRESSURE INDEPENDENT)	GRAPHIC DISPLAY	START & STOP	TEMP - SPACE	TIME PROGRAM
FINNED TUBE RADIATION	●	●	●	●	●

NOTE:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SPECIFIED SEQUENCE OF OPERATION DESCRIBED IN THE SPECIFICATIONS.
2. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

3 CONTROLS - FINNED TUBE RADIATION



ATC CONTROL SEQUENCE

A. INTERLOCK ALL EMERGENCY FIXTURE FLOW SWITCHES WITH THE BMS SYSTEM.

B. LOCAL AUDIBLE / VISUAL ALARM AND REMOTE ALARM ON BMS SHALL BE ACTIVATED WHEN FLOW SWITCH SENSES FLOW TO THE EMERGENCY PLUMBING FIXTURE.

C. CREATE GRAPHIC ON ATC SYSTEM, RECORD AND DISPLAY FLOW SWITCH ALARM. ACTIVATION OF EMERGENCY FIXTURE FLOW SWITCH SHALL SEND AN ALARM TO MAINTENANCE / FACILITY PERSONNEL.

ATC POINTS LIST

EQUIPMENT OR SYSTEM	GRAPHIC DISPLAY	FLOW SWITCH	FLUID FLOW ALARM
EMERGENCY FACE/EYE WASH FIXTURE	●	●	●

NOTES:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION.
2. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

4 CONTROLS - EMERGENCY FIXTURE - FLOW DETECTION, SIGNAL AND ALARM

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CONSTRUCTION MANAGER

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE

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CONTROLS - HVAC

ISSUE FOR BID

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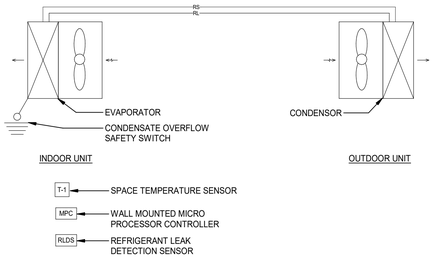
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Approved DRH
Project 25040

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ATC CONTROL SEQUENCE

DUCTLESS SPLIT SYSTEM HEAT PUMP UNITS.

A. GENERAL

1. THE DUCTLESS SPLIT SYSTEM HEAT PUMP UNITS SHALL BE PROVIDED WITH FACTORY PACKAGED CONTROLS AS INDICATED IN DIVISION 23 SECTION, HEATING, VENTILATING, AND AIR CONDITIONING.
2. THE CONTRACTOR SHALL INSTALL FACTORY FURNISHED CONTROLS, INTERLOCK WIRING, THERMOSTATS, AND CONTROL WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. THE CONTRACTOR SHALL INTERLOCK THE A/C CONDENSATE FLOAT SWITCH TO THEIR RESPECTIVE DUCTLESS SPLIT SYSTEM. THE A/C CONDENSATE FLOAT SWITCH SHALL BE WIRED TO DE-ENERGIZE THE DUCTLESS SPLIT SYSTEM IF MOISTURE IS DETECTED IN THE AUXILIARY DRAIN PAN. A LOCAL ALARM SHALL BE ANNUNCIATED UPON ACTIVATION OF THE FLOAT SWITCH.
4. FAN SPEED - EACH UNIT SHALL HAVE LOW, MEDIUM, HIGH MODE AND CASSETTES SHALL HAVE AN AUTO MODE. IN AUTO THE FAN SHALL AUTOMATICALLY ADJUST TO LOWER SPEEDS AS ROOM TEMPERATURE APPROACES SETPOINT.
5. REACHING SETPOINT - THE FAN SHALL OPERATE AT SUPER LOW (~50% OF LOW) SPEED WHEN SETPOINT IS ACHIEVED.
6. DRY MODE - FANS SHALL OPERATE AT LOW SPEED WITH FULL COOLING REFRIGERATION TO OBTAIN THE COLDEST TEMPERATURE POSSIBLE. THIS MODE SHALL MAXIMIZE MOISTURE REMOVAL WHILE MINIMIZING THE DECREASE IN SPACE DRY BULB TEMPERATURE.
7. UNIT MODE SHALL BE DETERMINED AT SPACE TEMPERATURE CONTROLLER. UNIT SHALL HAVE AUTO MODE, HEATING MODE, COOLING MODE, AND DRY MODE.
8. FURNISH UNITS WITH CONTROLS FOR LOW AMBIENT COOLING DOWN TO 0 DEGREES F.

B. SYSTEM OPERATION

1. THE UNITS SHALL BE ARRANGED FOR A WINTER TIME MORNING WARM-UP CYCLE AND A SUMMER TIME MORNING PULL DOWN CYCLE (FROM 6:00 A.M. TO 7:30 A.M.)
2. MORNING WARM-UP CYCLE: DURING MORNING WARM-UP CYCLE, THE SPACE AIR TEMPERATURE SENSOR (T-1) SHALL ENERGIZE THE MECHANICAL REFRIGERATION SYSTEM AND THE HEAT PUMP UNIT FAN SHALL OPERATE AT FULL SPEED TO PROVIDE FULL HEATING UNTIL THE SPACE AIR TEMPERATURE RISES TO 70 DEGREES F (ADJUSTABLE). UPON COMPLETION OF THE MORNING WARM-UP CYCLE, THE SPACE TEMPERATURE SENSOR, (T-1) SHALL CYCLE MECHANICAL REFRIGERATION SYSTEM AND SUPPLY AIR FAN TO MAINTAIN SPACE TEMPERATURE SET POINT.
3. MORNING PULL DOWN COOLING CYCLE: DURING MORNING PULL DOWN COOLING CYCLE, THE SPACE AIR TEMPERATURE SENSOR (T-1) SHALL ENERGIZE THE MECHANICAL REFRIGERATION SYSTEM AND THE HEAT PUMP UNIT FAN SHALL OPERATE AT FULL SPEED TO PROVIDE FULL COOLING UNTIL THE SPACE AIR TEMPERATURE DROPS TO 78 DEGREES F (ADJUSTABLE). UPON COMPLETION OF THE MORNING COOL DOWN CYCLE, THE SPACE TEMPERATURE SENSOR, (T-1) SHALL CYCLE MECHANICAL REFRIGERATION SYSTEM AND SUPPLY AIR FAN TO MAINTAIN SPACE TEMPERATURE SET POINT.

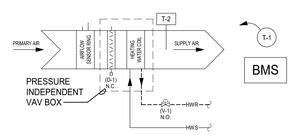
C. REFRIGERANT MITIGATION CONTROL

1. UNIT SHALL BE FURNISHED WITH FACTORY A2L TYPE REFRIGERANT SAFETY CONTROL THAT WILL SENSE REFRIGERANT LEAK AND AUTOMATICALLY TURN OFF DX SYSTEM AND ENERGIZE SUPPLY AIR FAN AT FULL FAN SPEED.

D. UNOCCUPIED MODE

1. DURING UNOCCUPIED MODE HEAT PUMP UNITS SHALL CYCLE INDEPENDENTLY TO MAINTAIN A REDUCED 60 DEGREES F (ADJUSTABLE) NIGHT SET BACK TEMPERATURE FOR HEATING SEASON AND 85 DEGREES F (ADJUSTABLE) NIGHT SET BACK TEMPERATURE FOR COOLING SEASON.

1 CONTROLS - DUCTLESS SPLIT SYSTEM UNIT



DEVICE LEGEND

DESIGNATION	DEVICE
BMS	BUILDING MANAGEMENT SYSTEM
D-1	PRESSURE INDEPENDENT MOTOR OPERATED DAMPER - OUTDOOR AIR
T-1	TEMPERATURE SENSOR - SPACE
T-2	TEMP. CONTROLLER - DISCHARGE AIR (RESETABLE)
V-1	CONTROL VALVE - HW COIL (MODULATING)

ATC POINTS LIST

EQUIPMENT OR SYSTEM	AIR FLOW RATE (CFM)	CONTROL VALVE (HEATING WATER) (2-WAY MODULATING PRESSURE INDEPENDENT)	DAMPER - FULLY MODULATING	GRAPHIC DISPLAY	TEMP - COIL DISCHARGE AIR (HEATING WATER COIL)	TEMP - SPACE	TIME PROGRAM	TOTAL RUN TIME
VAV BOXES	●	●	●	●	●	●	●	●

NOTE:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATIONS.
2. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

ATC CONTROL SEQUENCE

A. WARM-UP CONTROL:

1. WHEN THE SYSTEM IS INDEXED FROM UNOCCUPIED TO WARM-UP CYCLE (VIA THE BMS), ALL BOXES SHALL FUNCTION IN MORNING WARM-UP CYCLE. WHEN IN THE MORNING WARM-UP MODE THE VAV BOXES PRIMARY AIR DAMPER, D-1, SHALL OPEN TO MAXIMUM AIRFLOW SET POINT. THE HEATING COIL CONTROL VALVE(S), V-1, SHALL BE OPEN FOR MAXIMUM FLUID FLOW. UNITS SHALL REMAIN IN WARM UP-MODE UNTIL THE SPACE TEMPERATURE REACHES THE OCCUPIED SET POINT TEMPERATURE.

B. OCCUPIED CYCLE:

1. AS ROOM TEMPERATURE DECREASES BELOW SET POINT 75 DEGREES F, (ADJUSTABLE) AS MEASURED BY SPACE TEMPERATURE, T-1, THE SPACE TEMPERATURE SENSOR SHALL SIGNAL MICROFLO CONTROLLER TO MODULATE THE PRIMARY AIR DAMPER, D-1, FROM MAXIMUM TO MINIMUM FLOW SET POINTS (AS SCHEDULED).
2. IF PRIMARY AIR DAMPER IS AT MINIMUM AND SPACE TEMPERATURE CONTINUES TO DECREASE THEN MICROFLOW CONTROLLER SHALL MODULATE THE HEATING COIL CONTROL VALVE, V-1, OPEN TO MAINTAIN SPACE TEMPERATURE AT 70 DEGREES F (ADJUSTABLE).
3. AS SPACE TEMPERATURE, SENSED BY T-1 INCREASES, MICROFLOW CONTROLLER SHALL FIRST MODULATE DUCT HEATING COIL VALVE, V-1 CLOSED AND ON FURTHER SPACE TEMPERATURE INCREASE SHALL MODULATE THE PRIMARY AIR DAMPER, D-1 FROM MINIMUM TO MAXIMUM AIR FLOW AS REQUIRED TO COOL SPACE TO 75 DEGREES F (ADJUSTABLE).
4. DISCHARGE AIR TEMPERATURE SENSOR, T-2, SHALL BE PROVIDED TO MONITOR DISCHARGE AIR TEMPERATURE.
5.
6. VAV BOX AIRFLOW RATE SHALL BE DISPLAYED ON THE BMS GRAPHIC.

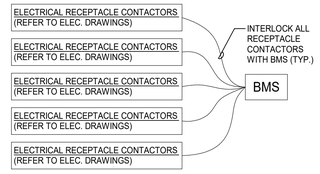
C. UNOCCUPIED CYCLE:

1. THE BMS SYSTEM SHALL RE-SET ALL SPACE TEMPERATURE SENSORS, T-1, TO MAINTAIN A REDUCED NIGHT SETBACK TEMPERATURE OF 55 DEGREES F (ADJUSTABLE). THE NIGHT SETBACK TEMPERATURE SHALL BE MAINTAINED BY CYCLING CENTRAL AIR HANDLING TO MAINTAIN NIGHT SET BACK TEMPERATURE.

D. SPACE SENSOR CONTROL: (MULTIPLE VAV BOXES)

1. WHERE SPACE SENSORS SERVING MORE THAN ONE VAV BOX ARE INDICATED A MASTER/SLAVE ARRANGEMENT SHALL BE PROVIDED. THE SEQUENCE OF OPERATION AS DESCRIBED ABOVE WILL BE IDENTICAL TO ABOVE EXCEPT VAV BOXES SHALL ACT IN PARALLEL TO EACH OTHER OFF OF THE INPUT OF ONE SPACE SENSOR, T-1.

2 CONTROLS - VAV BOX WITH HOT WATER HEAT



ATC CONTROL SEQUENCE

SWITCHED RECEPTACLE CONTROL

A. GENERAL

1. PROVIDE ALL INTERLOCKS AND WIRING TO PROVIDE AUTOMATIC CONTROL OF RECEPTACLES WITH CONTACTORS TO THE EXTENT INDICATED ON THE ELECTRICAL DOCUMENTS.
2. ATC SYSTEM SHALL PROVIDE START/STOP WITH MANUAL OVERRIDE OF RECEPTACLES INDICATED.
3. THE ATC SYSTEM SHALL BE INTERLOCKED WITH RELAYS/CONTACTORS AS INDICATED ON ELECTRICAL DOCUMENTS

ATC POINT LIST

EQUIPMENT OR SYSTEM	GRAPHIC DISPLAY	START & STOP	TIME PROGRAM
RECEPTACLES (W/ CONTACTORS)	●	●	●

NOTE:
1. PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION.
2. ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

3 CONTROLS - ATC CONTROLLED RECEPTACLES

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CONTROLS - HVAC

ISSUE FOR BID

PLAN NORTH

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VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

ID	LOCATION NAME	LOCATION NO.	NECK SIZE	TYPE	DESIGN STATIC PRESSURE INLET	DESIGN STATIC PRESSURE OUTLET	PRIMARY AIRFLOW MAX	PRIMARY AIRFLOW MIN	HEATING COIL CAP	HEATING COIL AIRSIDE DESIGN FLOW	AIRSIDE EAT(db)	AIRSIDE LAT(db)	AIRSIDE PD	AIRSIDE ROWS	WATERSIDE FLOW	WATERSIDE EWT	WATERSIDE LWT	WATERSIDE PD	PIPE DIA	MAX. DISCHARGE NC	REMARKS
VAV-D3-01	BREAK ROOM	105	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	200 CFM	80 CFM	7,549 Btu/h	200 CFM	55.0 °F	90.0 °F	0.11 in-wg	2	0.5 GPM	150 °F	120 °F	5.0 ftH2O	1/2"	26	24 VOLT
VAV-D3-02	RECEPTION	102	8"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	650 CFM	260 CFM	24,533 Btu/h	650 CFM	55.0 °F	90.0 °F	0.63 in-wg	3	2.0 GPM	150 °F	125 °F	5.0 ftH2O	3/4"	26	24 VOLT
VAV-D3-03	STAFF CORRIDOR	104	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	200 CFM	200 CFM	7,549 Btu/h	200 CFM	55.0 °F	90.0 °F	0.10 in-wg	2	0.5 GPM	150 °F	120 °F	5.0 ftH2O	1/2"	26	24 VOLT
VAV-D3-04	STAFF CORRIDOR	104	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	225 CFM	90 CFM	8,492 Btu/h	225 CFM	55.0 °F	90.0 °F	0.13 in-wg	2	0.5 GPM	150 °F	116 °F	5.0 ftH2O	1/2"	26	24 VOLT
VAV-D3-05	PUBLIC CORRIDOR	101	8"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	750 CFM	300 CFM	32,351 Btu/h	750 CFM	55.0 °F	95.0 °F	0.80 in-wg	3	2.5 GPM	150 °F	124 °F	5.0 ftH2O	3/4"	26	24 VOLT
VAV-D3-06	STERILIZATION LAB	113	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	200 CFM	80 CFM	7,549 Btu/h	200 CFM	55.0 °F	90.0 °F	0.11 in-wg	2	0.5 GPM	150 °F	120 °F	5.0 ftH2O	1/2"	26	24 VOLT
VAV-D3-07	DENTAL MECH.	120	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	250 CFM	100 CFM	9,436 Btu/h	250 CFM	55.0 °F	90.0 °F	0.15 in-wg	2	1.0 GPM	150 °F	131 °F	5.0 ftH2O	3/4"	26	24 VOLT
VAV-D3-08	MAIN STORAGE	119	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	250 CFM	100 CFM	9,436 Btu/h	250 CFM	55.0 °F	90.0 °F	0.11 in-wg	2	0.5 GPM	150 °F	112 °F	5.0 ftH2O	1/2"	26	24 VOLT
VAV-D3-09	DENTAL MECH.	120	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	225 CFM	90 CFM	8,492 Btu/h	225 CFM	55.0 °F	90.0 °F	0.13 in-wg	2	0.5 GPM	150 °F	116 °F	5.0 ftH2O	1/2"	26	24 VOLT
VAV-D3-10	STUDENT OPERATORIES	114	12"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	850 CFM	340 CFM	36,665 Btu/h	850 CFM	55.0 °F	95.0 °F	0.31 in-wg	2	2.5 GPM	150 °F	121 °F	5.0 ftH2O	3/4"	26	24 VOLT
VAV-D3-11	MAIN STORAGE	119	5"	SINGLE DUCT	1.50 in-wg	0.50 in-wg	300 CFM	120 CFM	11,323 Btu/h	300 CFM	55.0 °F	90.0 °F	0.20 in-wg	2	1.0 GPM	150 °F	127 °F	5.0 ftH2O	3/4"	26	24 VOLT

SPLIT SYSTEM DUCTLESS INDOOR HEAT PUMP SCHEDULE

ID	LOCATION NAME	LOCATION NO.	TYPE	INDOOR FAN AIRFLOW MAX	INDOOR FAN AIRFLOW MIN	COOLING CHARACTERISTICS CAP	COOLING CHARACTERISTICS SENSIBLE	AIRSIDE EAT(db)	AIRSIDE EAT(wb)	MIN EER	HEATING CHARACTERISTICS EAT(db)	41°F O.A.T CAP	41°F O.A.T MIN COP	17°F O.A.T. CAP	17°F O.A.T. MIN COP	REFRIG ERANT TYPE	UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	INTERLOCK ID	REMARKS
DSIU-01	STERILIZATION LAB	113	CEILING CASSETTE	530 CFM	420 CFM	11,604 Btu/h	10,049 Btu/h	75.0 °F	64.0 °F	15.9	72.0 °F	13,650 Btu/h	4.94	8,540 Btu/h	4.7	R-454B	46 lb	0.8 A	1.0 A	15.0 A	208 V	1	DSOU-01	
DSIU-02	DENTAL MECH.	120	CEILING CASSETTE	810 CFM	530 CFM	30,000 Btu/h	24,000 Btu/h	75.0 °F	63.0 °F	14.3	72.0 °F	33,000 Btu/h	4.35	18,100 Btu/h	2.82	R-454B	56 lb	0.8 A	1.0 A	15.0 A	208 V	1	DSOU-02	

SPLIT SYSTEM DUCTLESS OUTDOOR UNIT SCHEDULE

ID	LOCATION NAME	LOCATION NO.	TYPE	COMPRESSOR REFRIGERANT TYPE	COMPRESSOR REFRIGERANT CHARGE	COMPRESSOR MOTOR RLA	COMPRESSOR LOW AMBIENT KIT	SUMMER AMBIENT DBT	WINTER AMBIENT DBT	UNIT WEIGHT	MCA	MOCP	VOLT	PH	REMARKS
DSOU-1	ROOF	-	HP OUTDOOR UNIT	R-454B	8 lb	7.0 A	Yes	95.0 °F	17.0 °F	93 lb	11.0 A	30.0 A	208 V	1	REFER TO INDOOR UNIT SCHEDULE FOR REQUIRED CAPACITY. FURNISH WITH LOW AMBIENT CONTROLS.
DSOU-02	ROOF	-	HP OUTDOOR UNIT	R-454B	8 lb	7.0 A	Yes	95.0 °F	17.0 °F	155 lb	19.0 A	26.0 A	208 V	1	REFER TO INDOOR UNIT SCHEDULE FOR REQUIRED CAPACITY. FURNISH WITH LOW AMBIENT CONTROLS.

EXHAUST FAN SCHEDULE

ID	LOCATION NAME	LOCATION NO.	DESCRIPTION	FAN AIRFLOW DESIGN	FAN AIRFLOW MIN	FAN PRESS ESP	FAN RPM	FAN DRIVE TYPE	FAN MAX. BRAKE POWER	FAN MOTOR POWER	FAN MOTOR RPM	UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	REMARKS
EF-01	ROOF	--	POWER ROOF VENTILATOR	950 CFM	1,250 CFM	0.60 in-wg	1192	BELT	0.23 hp	0.33 hp	1725	70 lb	7.2 A	9.0 A	20.0 A	120 V	1	

ATC PANEL SCHEDULE

ID	LOCATION NAME	LOCATION NO.	SERVES	FLA	MCA	MOCP	VOLT	PH	REMARKS
ATC-01	DENTAL MECH.	120	VAV BOXES	5.0 A	6.3 A	20.0 A	120 V	1	
ATC-02	DENTAL MECH.	120	GENERAL	5.0 A	6.3 A	20.0 A	120 V	1	

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

ID	DESCRIPTION	REMARKS
RG1	LOUVERED GRILLE	RETURN/EXHAUST/TRANSFER
RG2	LOUVERED FILTER GRILLE	RETURN/EXHAUST/TRANSFER W/FILTER
SD1	LOUVERED FACE DIFFUSER	HIGH PERFORMANCE LOUVERED DIFFUSER

DESIGN FLUID PROPERTIES - HEATING PLANT

NOTE: Coil Calculations are as follows
Btu/h = Water Flow * (EWT - LWT) * Density * Sp Ht or,
Btu/h = Factor * GPM * (EWT - LWT)

GLYCOL TYPE	Propylene	Ethylene	%	Density	Sp Ht	Factor
-	No	No	0	62.3127 lb/ft³	1.0000 BTU/(lb °F)	500

RE-BALANCE OF EXISTING HYDRONIC EQUIPMENT

ID	LOCATION Name	LOCATION No.	EXISTING GPM	NEW REQUIRED GPM	REMARKS
BR-01A	STUDENT OPERATORIES	114	0.5 GPM	0.5 GPM	TEST AND BALANCE EXISTING BASEBOARD RADIATOR
BR-01B	STUDENT OPERATORIES	114	0.5 GPM	0.5 GPM	TEST AND BALANCE EXISTING BASEBOARD RADIATOR
BR-02	INSTRUCTION	112	0.5 GPM	0.5 GPM	TEST AND BALANCE EXISTING BASEBOARD RADIATOR
DOMESTIC RECIRC. PUMP-7	MAIN MECH.	214	6.0 GPM	6.0 GPM	TEST AND BALANCE EXISTING DOMESTIC RECIRC. PUMP
VAV-3-19	CORRIDOR	--	1.2 GPM	1.2 GPM	TEST AND BALANCE EXISTING VAV
VAV-3-25	CORRIDOR	--	3.5 GPM	3.5 GPM	TEST AND BALANCE EXISTING VAV

RE-BALANCE OF EXISTING AIR SIDE EQUIPMENT

ID	LOCATION Name	LOCATION No.	EXISTING CFM	NEW REQUIRED CFM	REMARKS
AHU-3	ROOF	--	22,500 CFM	22,500 CFM	TEST AND BALANCE EXISTING AHU (O.A. CFM = 10,000 CFM)
VAV-3-19	CORRIDOR	--	710 CFM	710 CFM	TEST AND BALANCE EXISTING VAV
VAV-3-25	CORRIDOR	--	1,800 CFM	1,800 CFM	TEST AND BALANCE EXISTING VAV

FLOW METER FITTING SCHEDULE

ID	PIPE SIZE (INCHES)	FLOW METER SIZE (INCHES)	DESIGN FLOW (GPM)	FLOW METER FLOW RANGE (LOW-HIGH)	MAX. PRESSURE DROP (FEET)	REMARKS
FMF-1	1/2	1/2	0.5	0.3-1.4	0.5	VAV-D3-01
FMF-2	3/4	3/4	2.0	1.2-5.4	0.5	VAV-D3-02
FMF-3	1/2	1/2	0.5	0.3-1.4	0.5	VAV-D3-03
FMF-4	1/2	1/2	0.5	0.3-1.4	0.5	VAV-D3-04
FMF-5	3/4	3/4	2.5	1.2-5.4	0.8	VAV-D3-05
FMF-6	1/2	1/2	0.5	0.3-1.4	0.5	VAV-D3-06
FMF-7	3/4	1/2	1.0	0.3-1.4	1.9	VAV-D3-07
FMF-8	1/2	1/2	0.5	0.3-1.4	0.5	VAV-D3-08
FMF-9	1/2	1/2	0.5	0.3-1.4	0.5	VAV-D3-09
FMF-10	3/4	3/4	2.5	1.2-5.4	0.8	VAV-D3-10
FMF-11	3/4	1/2	1.0	0.3-1.4	1.9	VAV-D3-11
FMF-12	3/4	1/2	0.5	0.3-1.4	0.5	BR-01A
FMF-13	3/4	1/2	0.5	0.3-1.4	0.5	BR-01B
FMF-14	3/4	1/2	0.5	0.3-1.4	0.5	BR-02
FMF-15	3/4	3/4	1.5	1.2-5.4	0.3	VAV BOXES MAIN
FMF-16	1-1/4"	1-1/4	12.0	7.2-32.3	0.7	BASEBOARD RADIATOR MAIN

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

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SCHEDULES - HVAC

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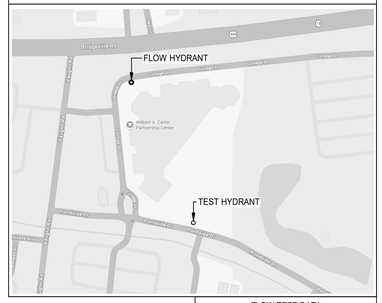
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Drawn RAK
Checked DRH
Approved DRH
Project 25040

Sheet **M501**

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KEYNOTES	
1	REMOVE ALL EXISTING SPRINKLER HEADS AND PIPING BACK TO 4" FIRE PROTECTION MAIN IN CORRIDOR AND PERMANENTLY CAP. NEW FIRE PROTECTION ZONE VALVE ASSEMBLY SHALL BE PROVIDED TO SERVE THE RENOVATED DENTAL SUITE AND CONNECT INTO EXISTING 4" FIRE PROTECTION MAIN. REFER TO NEW WORK PLUMBING DRAWING FOR LOCATION OF ASSEMBLY.
2	PROVIDE NEW SPRINKLER HEADS AND PIPING BASED ON NEW CEILING GRIDS AND BULKHEAD.
3	FIRE PROTECTION DEMOLITION AND NEW WORK DESIGN TO BE PROVIDED BY LICENSED FIRE PROTECTION ENGINEER IN DELAWARE AND APPROVED BY THE FIRE MARSHAL BEFORE WORK BEGINS. AS-BUILTS/RECORD DOCUMENTS TO BE PROVIDED BY FIRE PROTECTION ENGINEER OF RECORD SIGNED/SEALED.

FLOW TEST LOCATION
NO SCALE

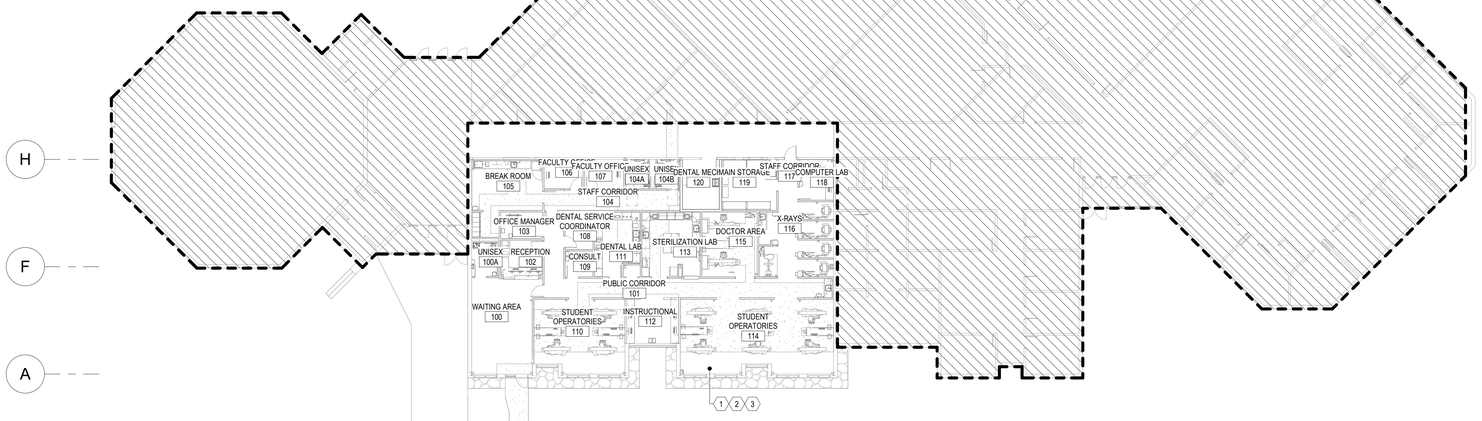


FLOW TEST DATA
STATIC PRESSURE = 45 PSIG RESIDUAL PRESSURE = 39 PSIG FLOW = 891 GPM

5 6 7 8 9 10

H F A

NOT IN CONTRACT



1 / F101 FIRE PROTECTION ZONING DIAGRAM
1/16" = 1'-0"



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FIRE PROTECTION ZONING DIAGRAM

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Approved	DRH
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Sheet	F101

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PLUMBING SYSTEMS SUMMARY

SYSTEM	FLOW
DOMESTIC WATER - TOTAL DENTAL SUITE	73.5 GPM
DOMESTIC WATER - COLD WATER	63.25 GPM
DOMESTIC WATER - HOT WATER	32.25 GPM
SANITARY / VENT	80 DFU

GENERAL MECHANICAL SYMBOLS

- 1 — REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- - / --- — NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- 1 — KEYNOTE
- CONTINUATION SYMBOL
- Room / 4 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- INVERT: -105' - 1" — BELOW GROUND PIPING
- PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

PLUMBING AND PIPING SYMBOLS

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CA(d)	DENTAL COMPRESSED AIR
VAC	DENTAL VACUUM
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
G	NATURAL GAS
PG	PROPANE GAS
REF-L	REFRIGERANT-LIQUID
REF-S	REFRIGERANT-SUCTION
REF-HG	REFRIGERANT-HOT GAS
STM	STEAM
CDR	CONDENSATE RETURN
CWV	COMBINATION WASTE & VENT
CA	COMPRESSED AIR
CW	DOMESTIC COLD WATER
H-CW	HARD COLD WATER
S-CW	SOFT COLD WATER
F-CW	FILTERED COLD WATER
RO	REVERSE OSMOSIS WATER
HW	HOT WATER
HW 140°	HOT WATER 140°
HW-R	HOT WATER RECIRCULATION
HW-R 140°-	HOT WATER RECIRCULATION 140°
GV	GREASE VENT
GW	GREASE WASTE
IW	INDIRECT WASTE
OV	OIL VENT
OW	OIL WASTE
PD	PUMP DISCHARGE
V	SANITARY VENT
SS	SANITARY SEWER
SHWR	SOLAR HOT WATER RETURN
SHWS	SOLAR HOT WATER SUPPLY
SD	STORM DRAINAGE
OSD	OVERFLOW STORM DRAINAGE

PIPE DROP, PIPE RISE, PIPE TEE, CAP

4" 2" PLUG, REDUCING 45 DEGREE TEE, 45 DEGREE TEE 4"

PIPE ACCESSORY TAGS

- 2" DOM. WM — DOMESTIC WATER METER
- 2" BALANCING — BALANCING VALVE
- 2" SHUTOFF — 1/4 TURN BALL VALVE
- 2" CHECK — CHECK VALVE
- 2" TMV — 3-WAY MIXING VALVE
- 2" M-CNTRL — MOTORIZED CONTROL VALVE
- 2" 3-WAY CNTRL — 3 WAY MOTORIZED CONTROL VALVE
- 2" PRV — PRESSURE REDUCING VALVE
- DOUBLE CHECK VALVE ASSEMBLY
- 2" BUTTERFLY — BUTTERFLY VALVE

DRAIN TAGS

FLOOR DRAIN — 4" FD-1P — TYPE (SEE SCHEDULE) — 6" SD-1
FLOOR DRAIN — 4" FD-2P — "P" - INDICATES PRIMER CONNECTION — 6" SD-3
FLOOR SINK — 4" FS-3P — 8 WFU — ROOF AREA SERVED BY DRAIN — 4000 SF
FIXTURE UNITS — DRAIN SIZE

PLUMBING FIXTURE TAGS

TYPE (SEE SCHEDULE) — LAV-1
FIXTURE UNITS — 1.5 CWFU, 1.5 HWFU
WATER CLOSET - WALL HUNG — WC-1A
WATER CLOSET - WALL HUNG - ADA — WC-1
LAV-1A — 1 WFU
U-1
PIPE ACCESORY TAG
4" WCO

PLUMBING GENERAL NOTES

A	FIELD VERIFY LOCATION AND INVERTS OF UTILITIES PRIOR TO INSTALLATION.
B	PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
C	WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FDV	FIRE DEPARTMENT VALVE	RL/A	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FPM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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PLUMBING TITLE SHEET

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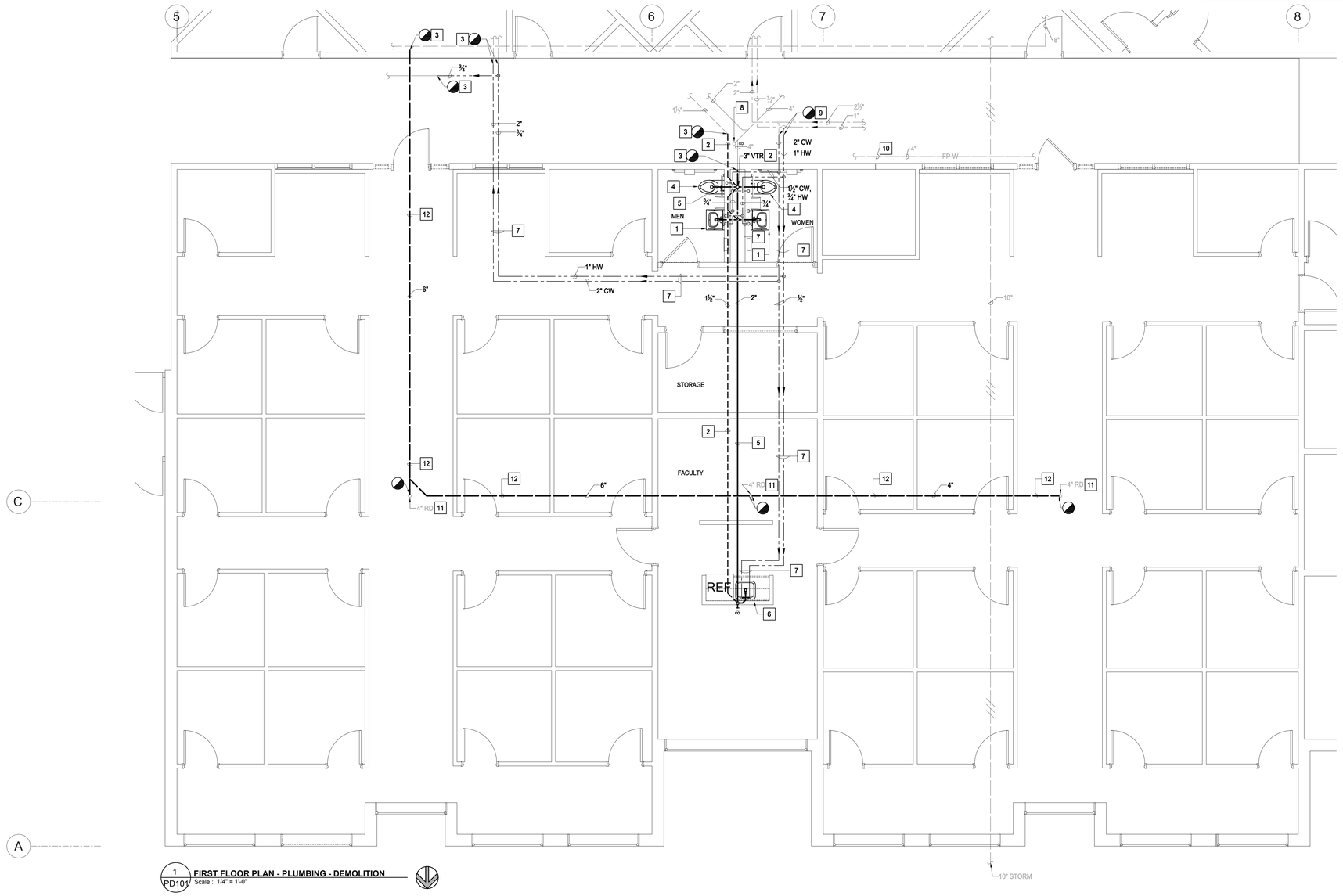
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Project	25040
Sheet	P001

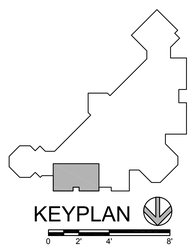
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DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

1. REMOVE LAVATORY AND ALL ASSOCIATED CW, HW, SANITARY, VENT PIPING,VALVES, SUPPORTS, AND INSULATION.
2. REMOVE VENT PIPE AND ALL ASSOCIATED PIPING AND SUPPORTS.
3. REMOVE PIPING TO POINT INDICATED AND TEMPORARILY CAP FOR CONNECTION UNDER NEW WORK.
4. REMOVE WATER CLOSET AND ALL ASSOCIATED CW, SANITARY, VENT PIPING, SUPPORTS, VALVES, AND INSULATION.
5. REMOVE ALL SANITARY PIPING AND ALL ASSOCIATED SUPPORTS.
6. REMOVE COUNTER SINK AND ALL ASSOCIATED SAN., CW, HW AND VENT PIPING AND SUPPORTS.
7. REMOVE CW AND HW PIPING AND ALL ASSOCIATED INSULATION, VALVES, FITTINGS, AND SUPPORTS.
8. EXISTING 4" SANITARY INVERT = 37.0 INCHES BELOW SLAB AT CLEANOUT. CONFIRM INVERT ELEVATION DURING DEMOLITION. COORDINATE ALL NEW PIPING INVERTS TO ALLOW CONNECTION TO EXISTING INVERT.
9. REMOVE PIPING TO POINT INDICATED AND PERMANENTLY CAP.
10. REMOVE ALL EXISTING SPRINKLER HEADS AND PIPING BACK TO 4" FIRE PROTECTION MAIN IN CORRIDOR AND PERMANENTLY CAP. NEW FIRE PROTECTION ZONE VALVE ASSEMBLY SHALL BE PROVIDED TO SERVE THE RENOVATED DENTAL SUITE AND CONNECT INTO EXISTING 4" FIRE PROTECTION MAIN. REFER TO NEW WORK PLUMBING DRAWING FOR LOCATION OF ASSEMBLY.
11. REMOVE STORMWATER PIPING TO UNDERSIDE OF ROOF DRAIN AND TEMPORARILY CAP FOR FUTURE CONNECTION UNDER NEW WORK.
12. REMOVE STORMWATER PIPING AND ALL ASSOCIATED INSULATION AND SUPPORTS.



1 PD101 **FIRST FLOOR PLAN - PLUMBING - DEMOLITION**
Scale : 1/4" = 1'-0"



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FIRST FLOOR PLAN - PLUMBING - DEMOLITION

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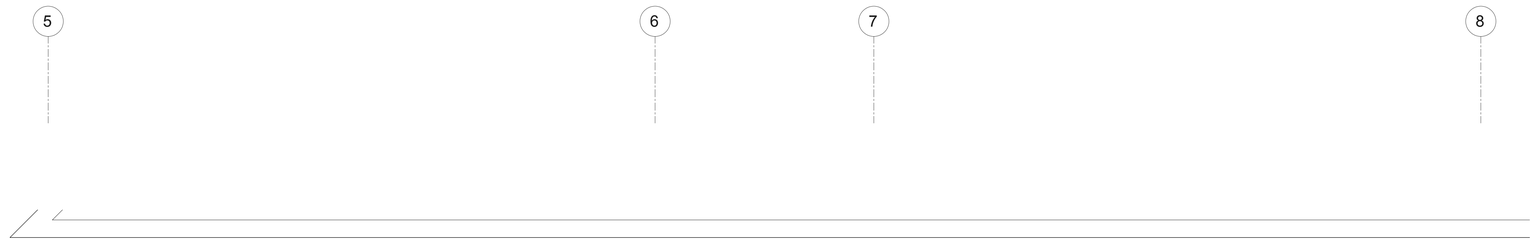
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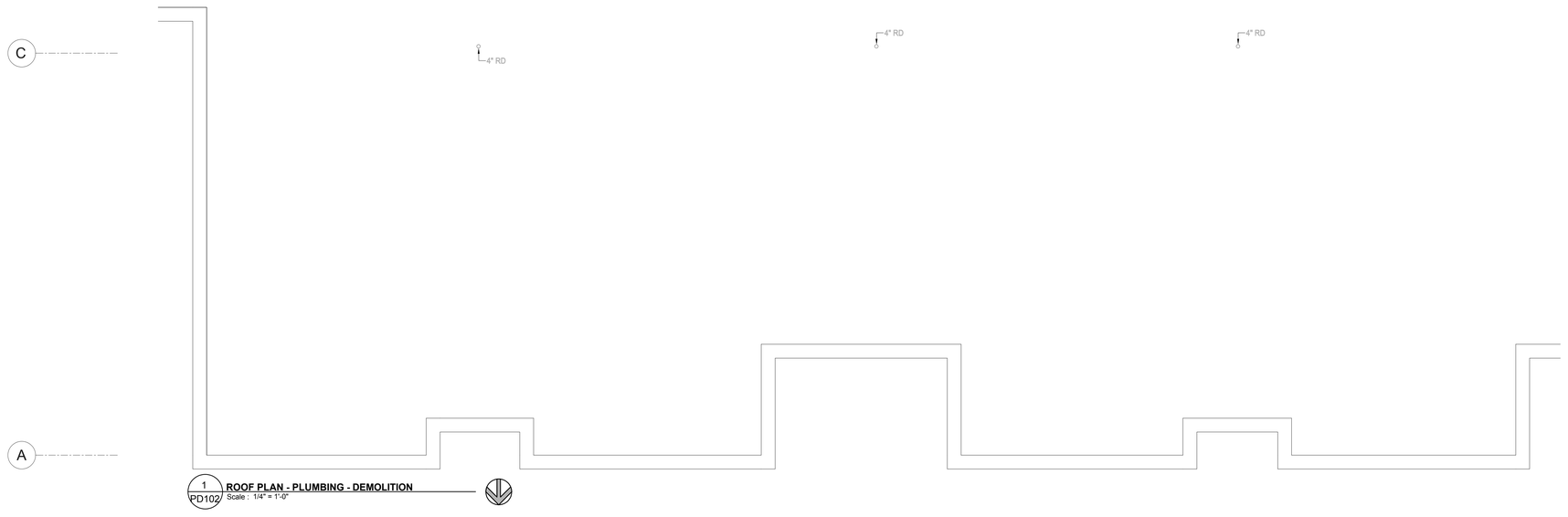
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Approved	DRH
Project	25040
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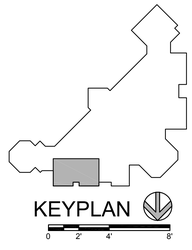


3" VTR

REMOVE VTR AND ALL ASSOCIATED PIPING, AND SUPPORTS.



1 PD102 **ROOF PLAN - PLUMBING - DEMOLITION**
Scale : 1/4" = 1'-0"



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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE

21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

ROOF PLAN - PLUMBING - DEMOLITION

ISSUE FOR BID

PLAN NORTH

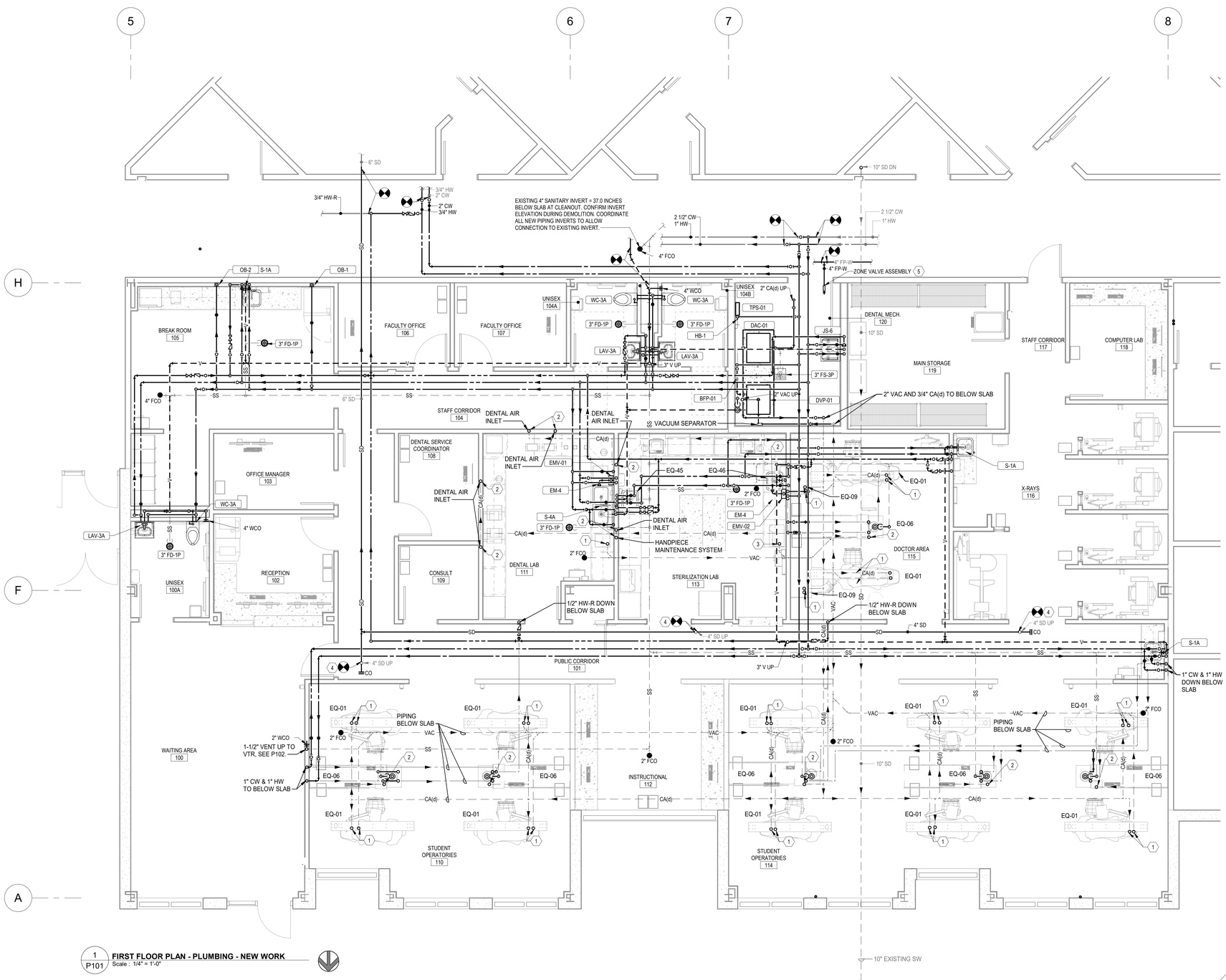
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NO.	DATE	DESCRIPTION
1	10/15/2026	Issue for Bid

Date	10/12/2026
Scale	AS NOTED
Drawn	RAK
Checked	DRH
Approved	DRH
Project	25040
Sheet	**PD102**

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KEYNOTES	
1	1/2" DENTAL COMPRESSED AIR AND 1" DENTAL VACUUM UP TO DENTAL EQUIPMENT FROM BELOW SLAB CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.
2	1/2" DENTAL COMPRESSED AIR UP TO DENTAL EQUIPMENT CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.
3	1" DENTAL VACUUM UP TO DENTAL EQUIPMENT CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.
4	CONNECT STORMWATER PIPING TO EXISTING ROOF DRAINS. FULLY INSULATE DRAIN SUMP AND PIPING AS SPECIFIED.
5	NEW FIRE PROTECTION ZONE VALVE ASSEMBLY TO SERVE NEW DENTAL AREA.



1 / P101 **FIRST FLOOR PLAN - PLUMBING - NEW WORK**
Scale : 1/4" = 1'-0"

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FIRST FLOOR PLAN - PLUMBING - NEW WORK

ISSUE FOR BID

PLAN NORTH
TRUE NORTH

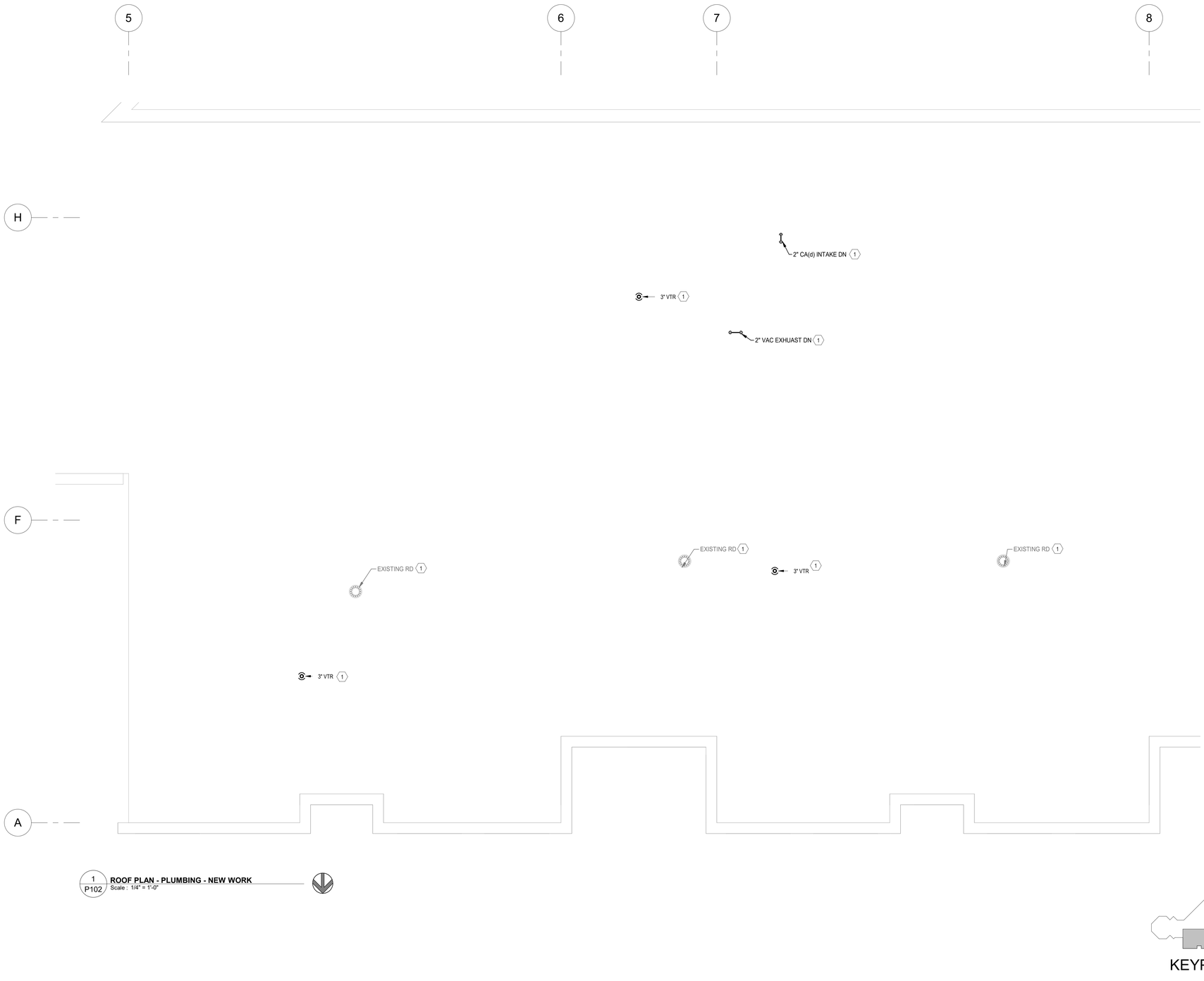
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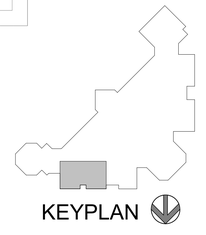
Date	10/12/2026
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Drawn	RAK
Checked	DRH
Approved	DRH
Project	25040
Sheet	P101

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KEYNOTES	
1	PIPING DOWN. FOR CONTINUATION SEE P101.



1 P102 **ROOF PLAN - PLUMBING - NEW WORK**
Scale : 1/4" = 1'-0"



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ROOF PLAN - PLUMBING - NEW WORK

ISSUE FOR BID

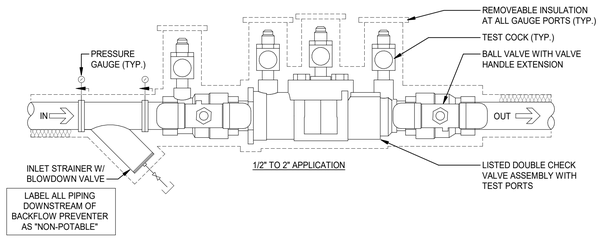
PLAN NORTH

ISSUED FOR

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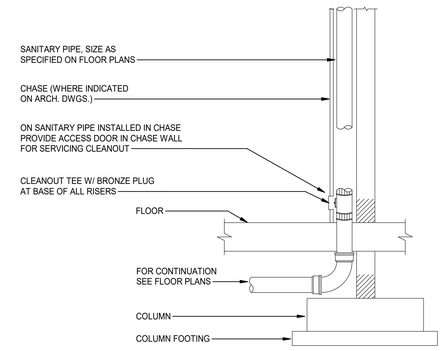
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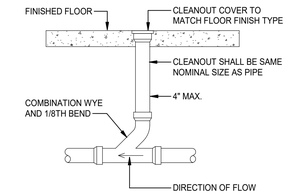
NOTES:

1. UNLESS OTHERWISE NOTED MOUNTING HEIGHT SHALL BE BETWEEN 12" AND 60" ABOVE THE FINISHED FLOOR.
2. EXTERNALLY INSULATE AS SPECIFIED, PROVIDE REMOVABLE INSULATION COVERS FOR TEST PORTS.

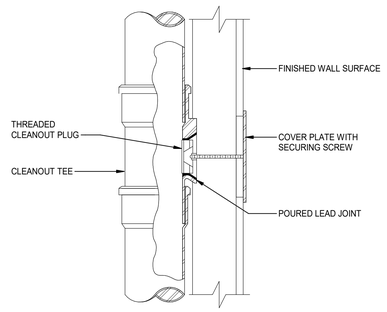
1 DETAIL - DOUBLE CHECK VALVE ASSEMBLY



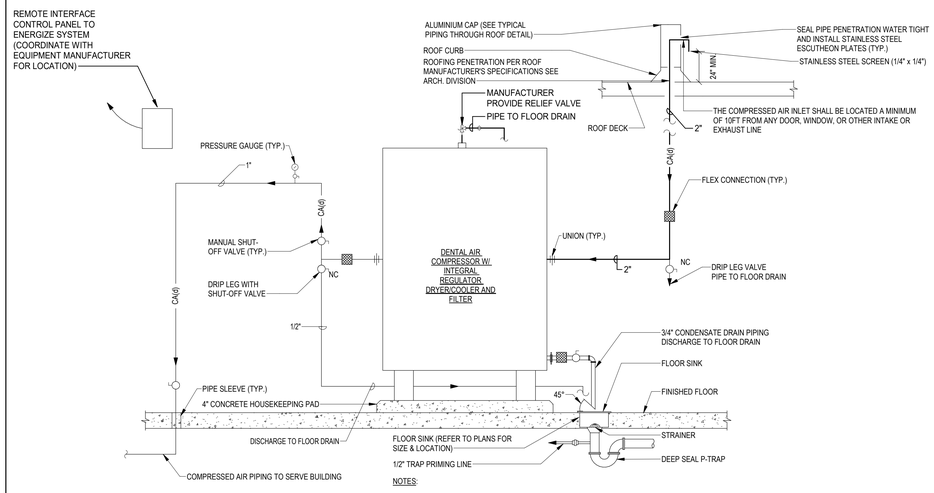
2 DETAIL - TYPICAL VERTICAL SANITARY RISER



3 DETAIL - TYPICAL INTERIOR SANITARY CLEANOUT



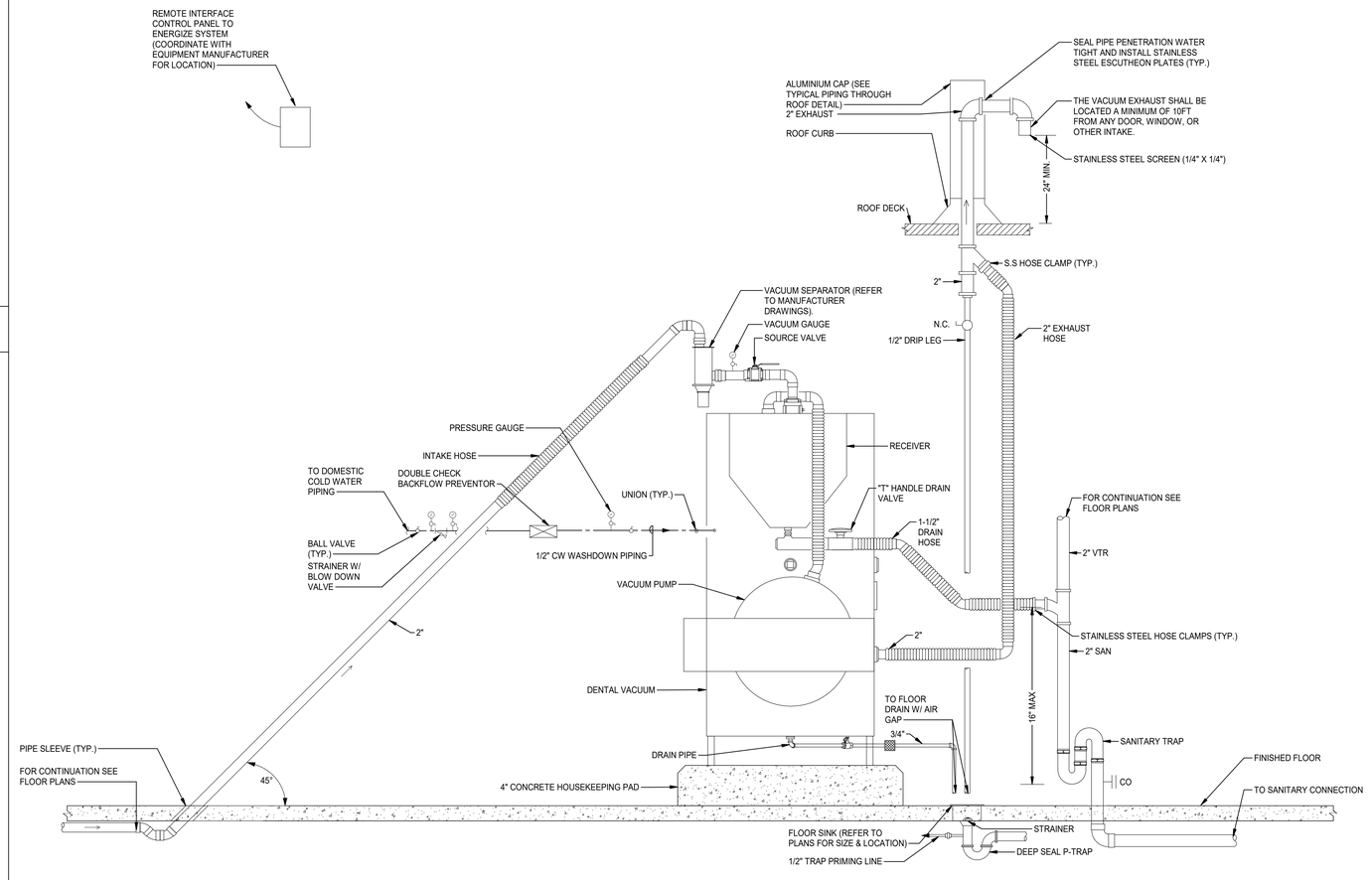
5 DETAIL - INTERIOR WALL CLEANOUT - HUB AND SPIGOT WITH COVER PLATE



NOTES:

1. AIR GAP SHALL BE TWICE THE SIZE OF INDIRECT WASTE LINE.
2. ALL INDIRECT WASTE PIPING THAT EXCEEDS 2 FT. IN DEVELOPED LENGTH HORIZONTALLY OR 4 FT. TOTAL DEVELOPED LENGTH SHALL BE TRAPPED.
3. INSTALL DENTAL AIR COMPRESSOR AND PIPING SYSTEM PER MANUFACTURER'S REQUIREMENTS. REFER TO DENTAL EQUIPMENT VENDOR FOR ADDITIONAL INFORMATION.
4. PAINT PERIMETER OF CONCRETE HOUSEKEEPING PAD SAFETY YELLOW.
5. COORDINATE ROUGH-IN AND FINAL CONNECTIONS WITH DENTAL EQUIPMENT VENDOR.

6 DETAIL - DENTAL AIR COMPRESSOR



NOTES:

1. AIR GAP SHALL BE TWICE THE SIZE OF INDIRECT WASTE LINE.
2. ALL INDIRECT WASTE PIPING THAT EXCEEDS 2 FT. IN DEVELOPED LENGTH HORIZONTALLY OR 4 FT. TOTAL DEVELOPED LENGTH SHALL BE TRAPPED.
3. INSTALL DENTAL VACUUM PUMP AND PIPING SYSTEM PER MANUFACTURER'S REQUIREMENTS. REFER TO DENTAL EQUIPMENT VENDOR FOR ADDITIONAL INFORMATION.
4. PAINT PERIMETER OF CONCRETE HOUSEKEEPING PAD SAFETY YELLOW.
5. COORDINATE ROUGH-IN AND FINAL CONNECTIONS WITH DENTAL EQUIPMENT VENDOR.

7 DETAIL-VERTICAL TANK MOUNTED MEDICAL VACUUM PUMPS W/ RECEIVER

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19947

DETAILS - PLUMBING

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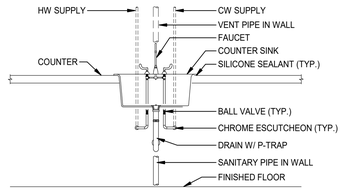
PLAN NORTH

ISSUED FOR

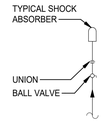
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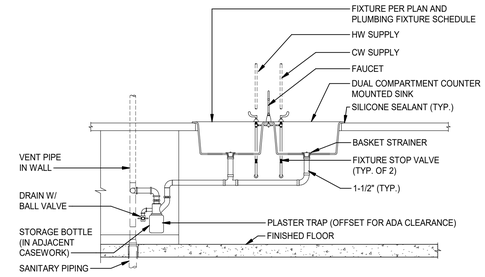
1 DETAIL - TYPICAL COUNTER MOUNTED SINK



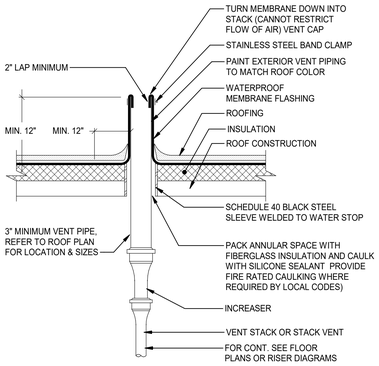
NOTE:

1. REFER TO DOMESTIC WATER RISER DIAGRAM FOR "PDI" SIZE CLASSIFICATION

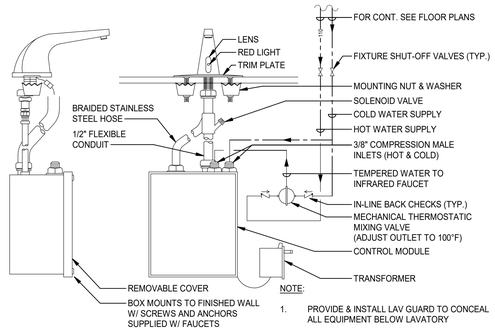
2 DETAIL - TYPICAL SHOCK ABSORBER



3 DETAIL - TYPICAL DOUBLE BOWL DENTAL LAB COUNTER SINK W/PLASTER TRAP



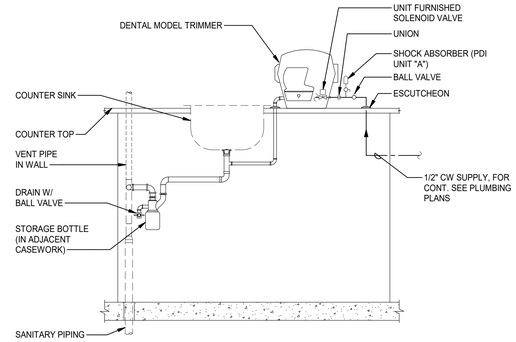
4 DETAIL - TYPICAL VENT THRU ROOF



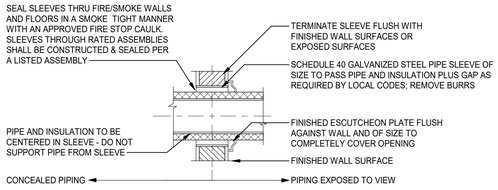
NOTE:

1. PROVIDE & INSTALL LAV GUARD TO CONCEAL ALL EQUIPMENT BELOW LAVATORY

5 DETAIL - TYPICAL INFRARED FAUCET W/ THERMOSTATIC MIXING VALVE



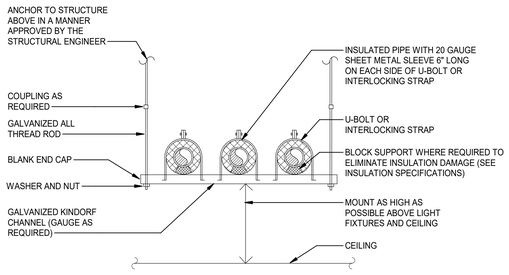
6 DETAIL - DENTAL LAB MODEL TRIMMER



NOTE:

1. FOR INTERIOR FRAME PARTITIONS - PIPE SLEEVES MAY BE FABRICATED FROM GALVANIZED SHEET METAL, ROUND TUBE CLOSED WITH SNAPLOCK JOINT, WELDED SPIRAL SEAMS, OR WELDED LONGITUDINAL JOINT. FABRICATE FROM THE FOLLOWING GAUGES: 3" AND SMALLER, 20 GAUGE; 4" TO 6", 16 GAUGE; OVER 6", 14 GAUGE.

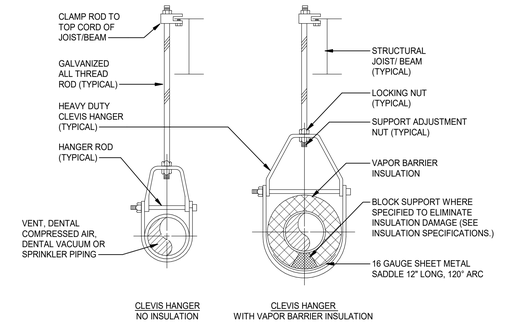
7 DETAIL - TYPICAL PIPE SLEEVE THRU INTERIOR WALL



NOTES:

1. ALL PIPING SUPPORT SYSTEM COMPONENTS SHALL HAVE A NON-CORROSIVE METAL FINISH, GALV-KROM OR EQUAL.
2. COORDINATE CROSS PIPING WITH MECHANICAL PIPING ROUTED IN CORRIDORS & SPRINKLER PIPING MAINS CROSSING IN CORRIDORS.

8 DETAIL - TYPICAL TRAPEZE PIPING SUPPORT



9 DETAIL - TYPICAL INDIVIDUAL PIPE SUPPORT

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DETAILS - PLUMBING

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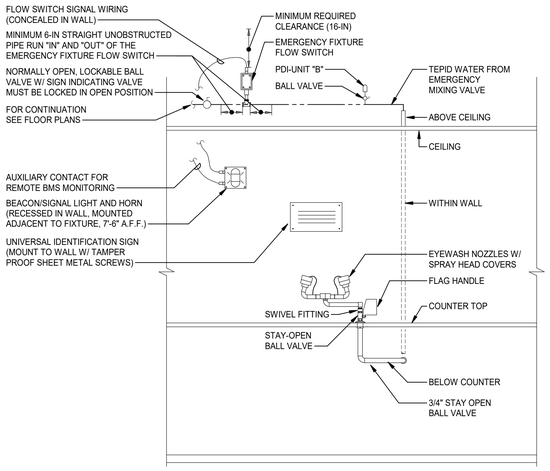
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Sheet	P302

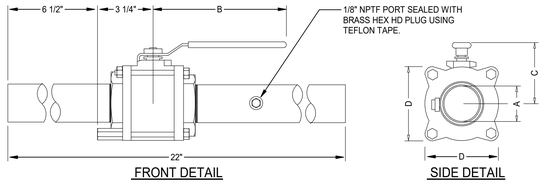
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NOTES:

1. ALL PIPES & FITTINGS TO BE PROTECTED W/ SAFETY YELLOW COATING.
2. FLOW SWITCHES SHALL BE INSTALLED WITH SWITCH BODY IN THE VERTICAL POSITION AND THE WATER PIPE HORIZONTAL.

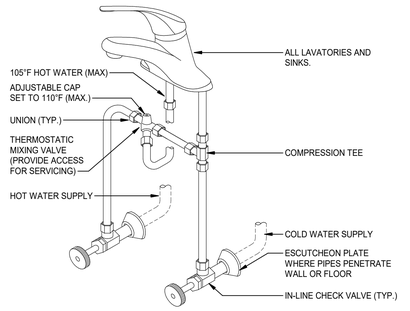
1 DETAIL - EMERGENCY EYE/FACE WASH FIXTURE (DECK MOUNTED)



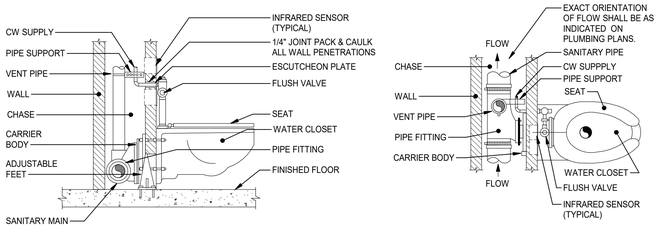
FRONT DETAIL SIDE DETAIL

PORT DIA.	DIMENSIONS		
A	B	C	D
1/2"	4 7/8"	1 15/16"	1 13/16"
3/4"	4 7/8"	2 3/16"	2"
1"	5 1/2"	2 5/8"	2 1/4"
1-1/4"	5 1/2"	2 7/8"	2 3/4"
1-1/2"	8"	3 3/8"	3 1/16"
2"	8"	3 11/16"	3 7/8"

2 DETAIL - TYPICAL SHUTOFF BALL VALVE



3 DETAIL - TYPICAL INSTALLATION FOR THERMOSTATIC MIXING VALVES

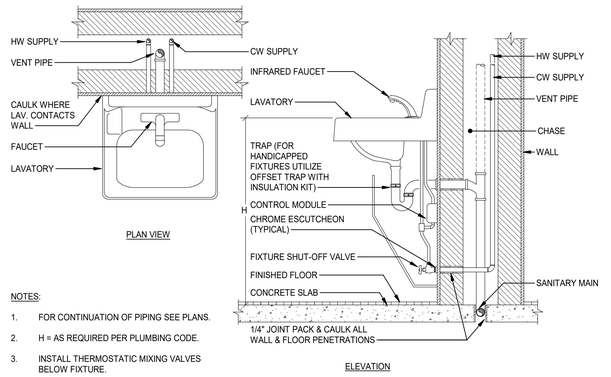


ELEVATION PLAN VIEW

NOTES:

1. FOR CONTINUATION OF PIPING SEE PLANS.
2. SANITARY MAIN SHALL BE ROUTED ABOVE CHASE FLOOR EXCEPT WHERE FLOOR DRAINS ARE INDICATED IN WHICH CASE THE SANITARY MAIN SHALL DROP DOWN.

4 DETAIL - SINGLE WALL HUNG WATER CLOSET (INFRARED FLUSH VALVE)

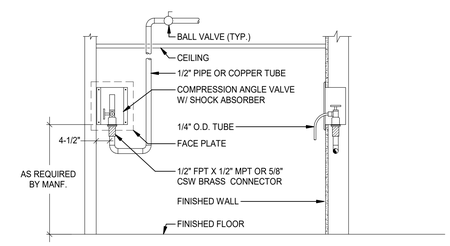


PLAN VIEW ELEVATION

NOTES:

1. FOR CONTINUATION OF PIPING SEE PLANS.
2. H = AS REQUIRED PER PLUMBING CODE.
3. INSTALL THERMOSTATIC MIXING VALVES BELOW FIXTURE.

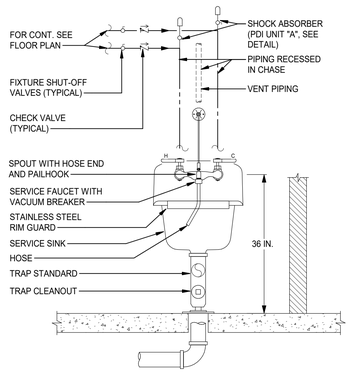
5 DETAIL - SINGLE WALL MOUNTED LAVATORY (INFRARED FAUCET)



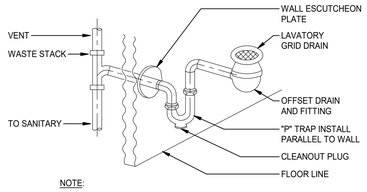
NOTE:

1. INSTALLATION HEIGHT MAY VARY WITH EACH MANUFACTURER

6 DETAIL - REFRIGERATOR ICE MAKER WATER SUPPLY WALL OUTLET BOX



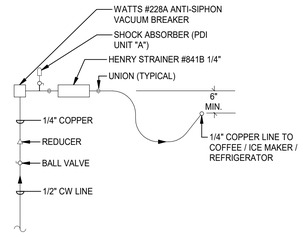
7 DETAIL - WALL HUNG SERVICE SINK WITH TRAP STANDARD



NOTE:

1. ALL EXPOSED WASTE, CW, & HW PIPING BELOW LAVATORY TO BE FULLY INSULATED

8 DETAIL - HANDICAPPED LAVATORY / SINK OFF-SET DRAIN



9 DETAIL - CW CONNECTION TO COFFEE MAKER, ICE MAKER

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DETAILS - PLUMBING

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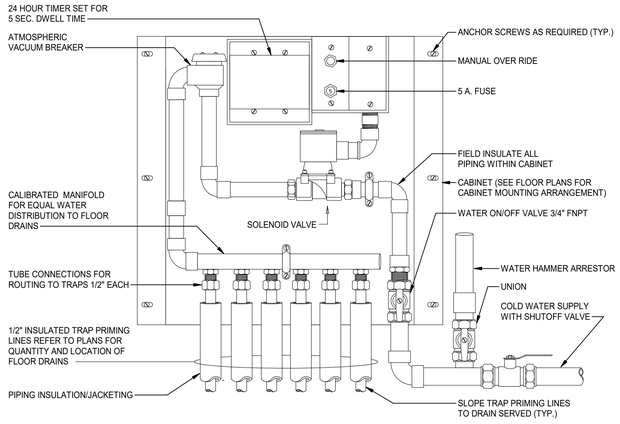
PLAN NORTH

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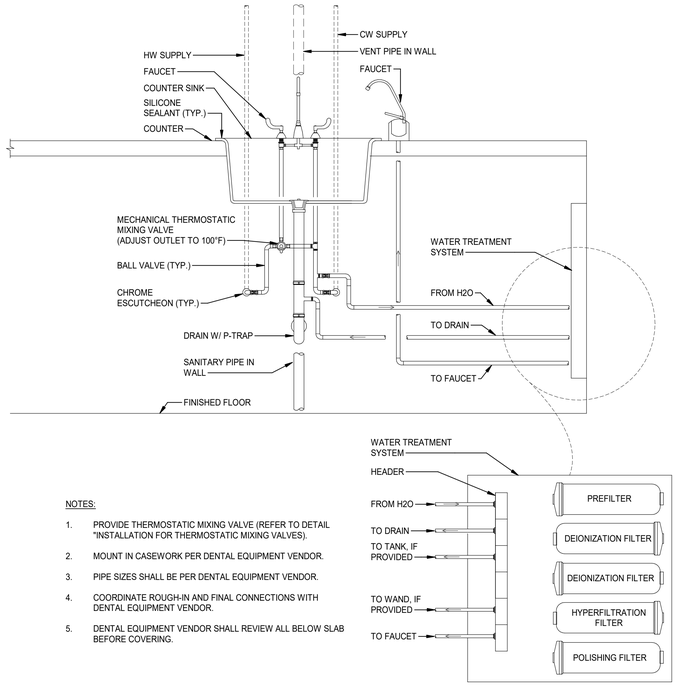
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Sheet	P303

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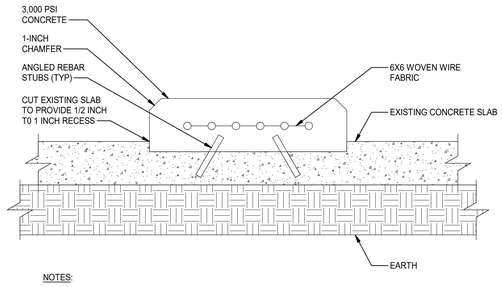
NOTE:
1. PROVIDE FIELD FABRICATED 20 GUAGE TYPE 304 STAINLESS STEEL COVER FROM BOTTOM OF TRAP PRIMING STATION TO FINISHED FLOOR.
2. LABEL ALL TRAP PRIMERS AS TO WHAT ROOMS THEY SERVE.

1 DETAIL - TRAP PRIMING STATION



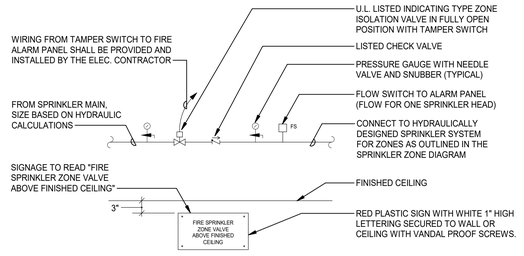
NOTES:
1. PROVIDE THERMOSTATIC MIXING VALVE (REFER TO DETAIL "INSTALLATION FOR THERMOSTATIC MIXING VALVES).
2. MOUNT IN CASEWORK PER DENTAL EQUIPMENT VENDOR.
3. PIPE SIZES SHALL BE PER DENTAL EQUIPMENT VENDOR.
4. COORDINATE ROUGH-IN AND FINAL CONNECTIONS WITH DENTAL EQUIPMENT VENDOR.
5. DENTAL EQUIPMENT VENDOR SHALL REVIEW ALL BELOW SLAB BEFORE COVERING.

2 DENTAL WATER FILTRATION SYSTEM



NOTES:
1. WHERE NEW CONCRETE HOUSEKEEPING PADS ARE PLACED ON EXISTING CONCRETE, SAW CUT THE EXISTING CONCRETE TO THE PERIMETER DIMENSION OF THE NEW PAD TO A DEPTH OF 1/2 INCH. BREAK OUT THE TOP 1/2 INCH AREA OF THE EXISTING CONCRETE. ADD STUBS OF #4 REBAR ANGLED INTO THE EXISTING CONCRETE AT A DEPTH OF APPROXIMATELY 50 PERCENT OF THE EXISTING SLAB THICKNESS. THE TOP PORTION OF THE REBAR STUB SHALL EXTEND INTO THE NEW PAD BY APPROXIMATELY 50 PERCENT OF ITS THICKNESS. FURNISH ONE REBAR STUB PER EVERY TWO SQUARE FEET OF THE NEW PAD. CHEMICALLY BOND THE NEW CONCRETE TO THE EXISTING CONCRETE.
2. EXTEND CONCRETE 4-6 INCHES BEYOND EQUIPMENT.
3. PAINT EDGES OF SLAB SAFETY YELLOW.

3 DETAIL - EXISTING CONCRETE SLAB



4 DETAIL - TYPICAL SPRINKLER ZONE ALARM VALVE ASSEMBLY

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

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GEORGETOWN, DE 19947

OWNER

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DETAILS - PLUMBING

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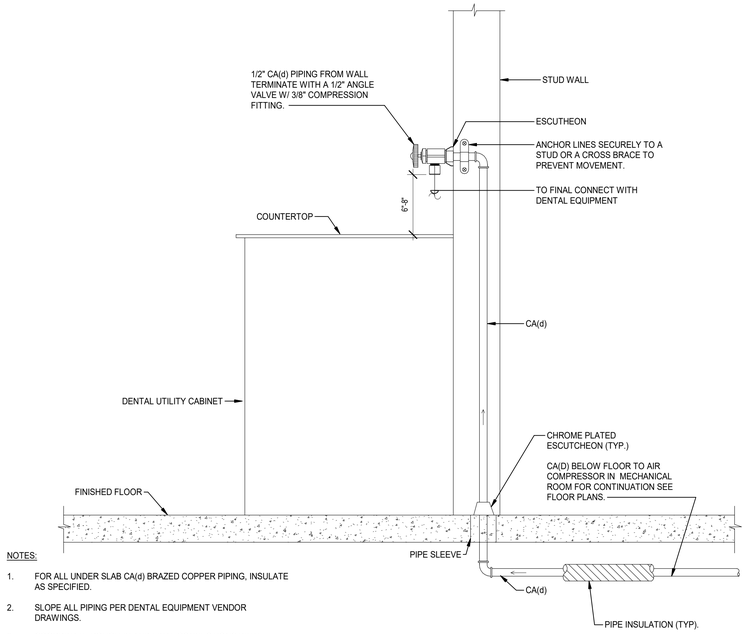
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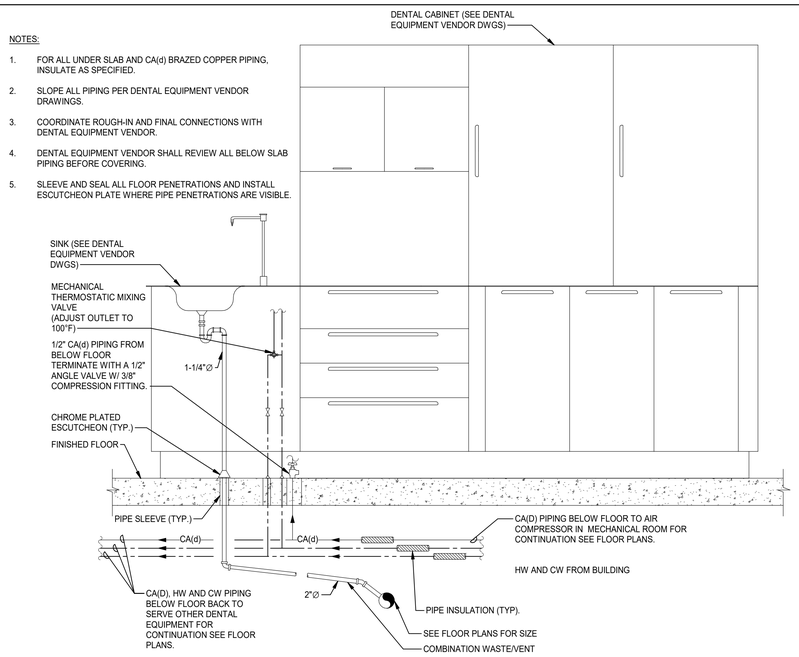
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NOTES:

1. FOR ALL UNDER SLAB CA(d) BRAZED COPPER PIPING, INSULATE AS SPECIFIED.
2. SLOPE ALL PIPING PER DENTAL EQUIPMENT VENDOR DRAWINGS.
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4. DENTAL EQUIPMENT VENDOR SHALL REVIEW ALL BELOW SLAB PIPING BEFORE COVERING.
5. SLEEVE AND SEAL ALL FLOOR PENETRATIONS AND INSTALL ESCUTCHEON PLATE WHERE PIPE PENETRATIONS ARE VISIBLE.

1 DETAIL - DENTAL AIR LINE



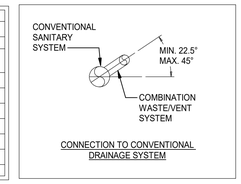
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TABLE A

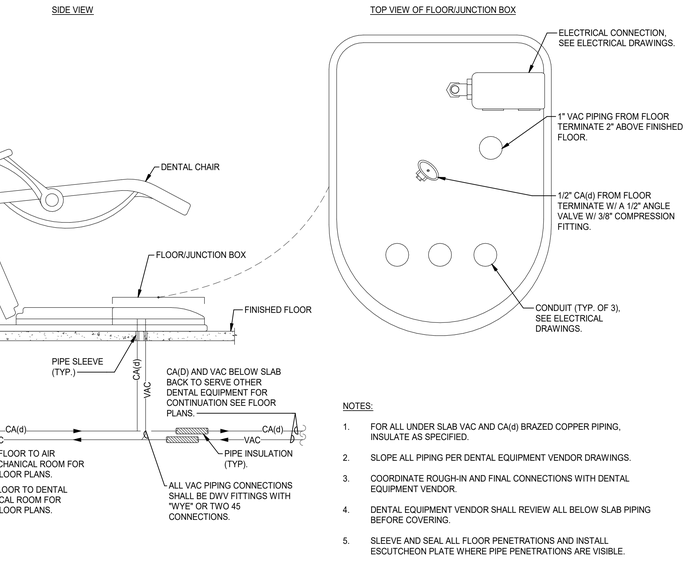
PIPE SIZING FOR COMBINATION WASTE & VENT SYSTEMS

LOAD	COMBINATION WASTE & VENT SIZES	
	SLOPE "D" 1/8"/FT. (INCHES)	SLOPE "D" 1/4"/FT. (INCHES)
3 DFU	4"	2"
5 DFU	4"	3"
12 DFU	4"	4"
20 DFU	5"	4"
180 DFU	5"	5"
218 DFU	6"	5"
390 DFU	8"	8"



CONNECTION TO CONVENTIONAL DRAINAGE SYSTEM

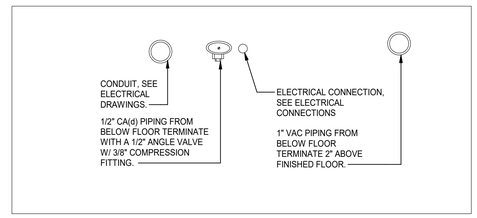
2 DETAIL - DENTAL UTILITY ISLAND

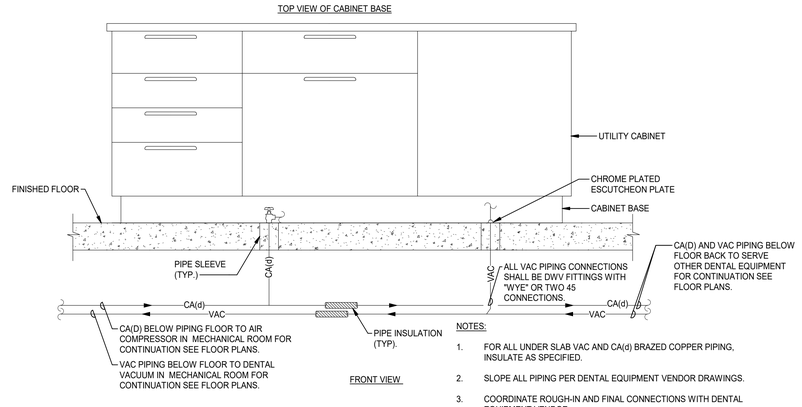


NOTES:

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3 DETAIL - DENTAL CHAIR





FRONT VIEW

NOTES:

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4 DETAIL - DENTAL UTILITY CABINET

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DETAILS - PLUMBING

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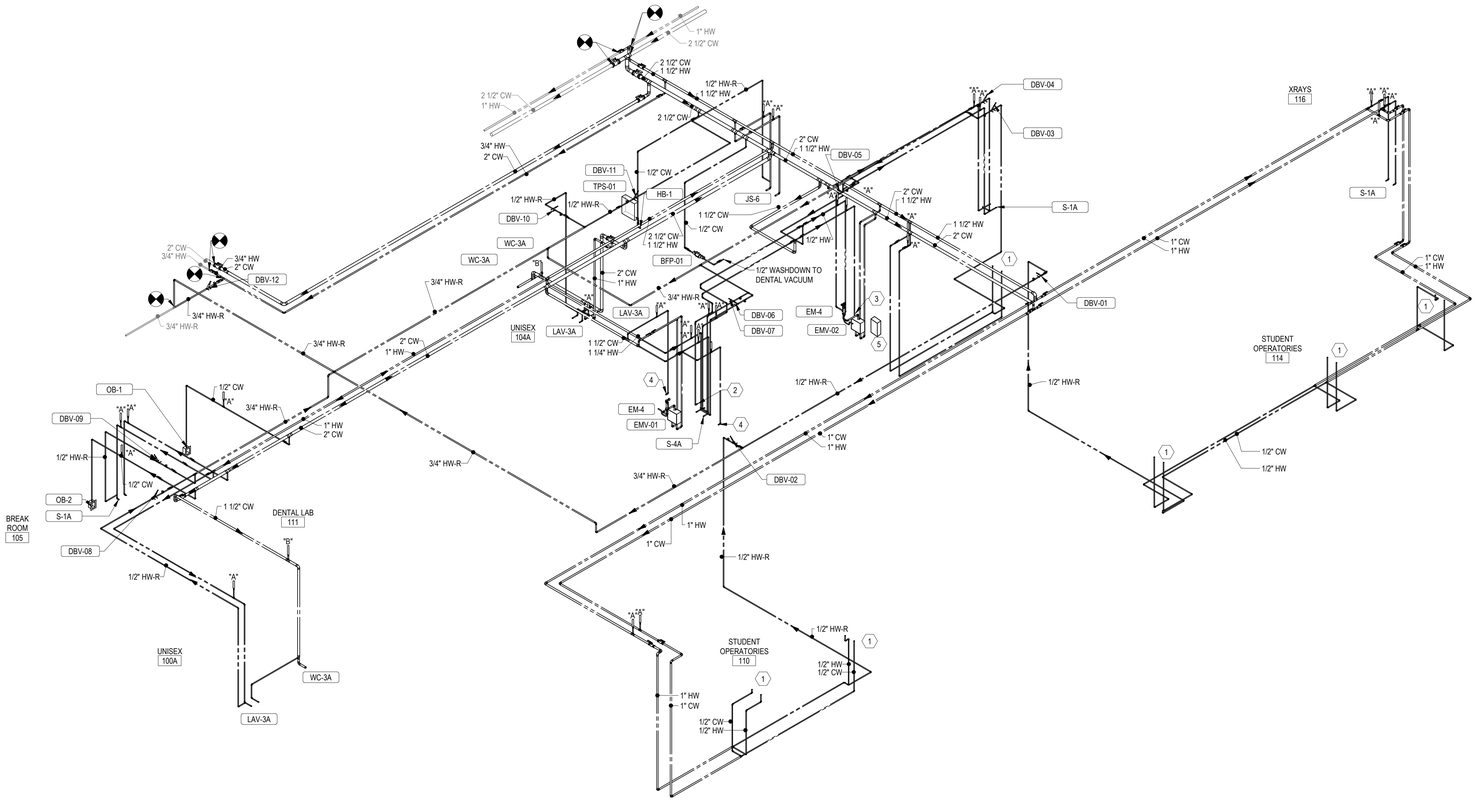
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KEYNOTES	
1	CW AND HW UP TO DENTAL EQUIPMENT EQ-06. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
2	CW AND HW DOWN TO DENTAL EQUIPMENT EQ-45. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
3	CW AND HW DOWN TO DENTAL EQUIPMENT EQ-46. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
4	CW AND HW DOWN TO DENTAL EQUIPMENT EQ-16. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
5	WATER FILTRATION SYSTEM. ATTACH TO COLD WATER LINE AND SINK FAUCET.



1 DOMESTIC WATER RISER DIAGRAM

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RISERS - PLUMBING

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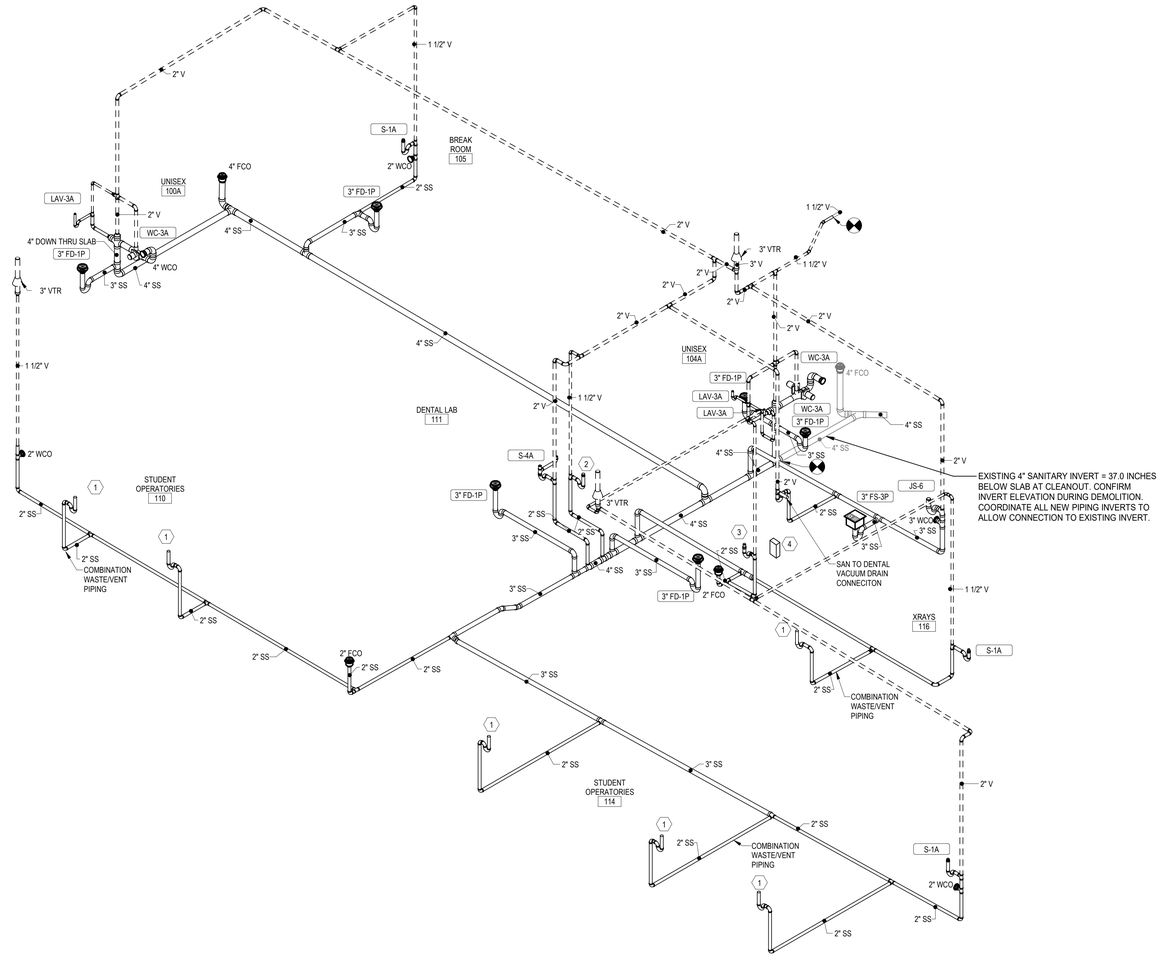
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KEYNOTES	
1	SAN PIPING UP TO DENTAL EQUIPMENT EQ-06. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
2	SAN PIPING UP TO DENTAL EQUIPMENT EQ-45. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
3	SAN PIPING UP TO DENTAL EQUIPMENT EQ-46. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
4	WATER FILTRATION SYSTEM, DISCHARGE TO SAN.



1 WASTE & VENT RISER DIAGRAM

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RISERS - PLUMBING

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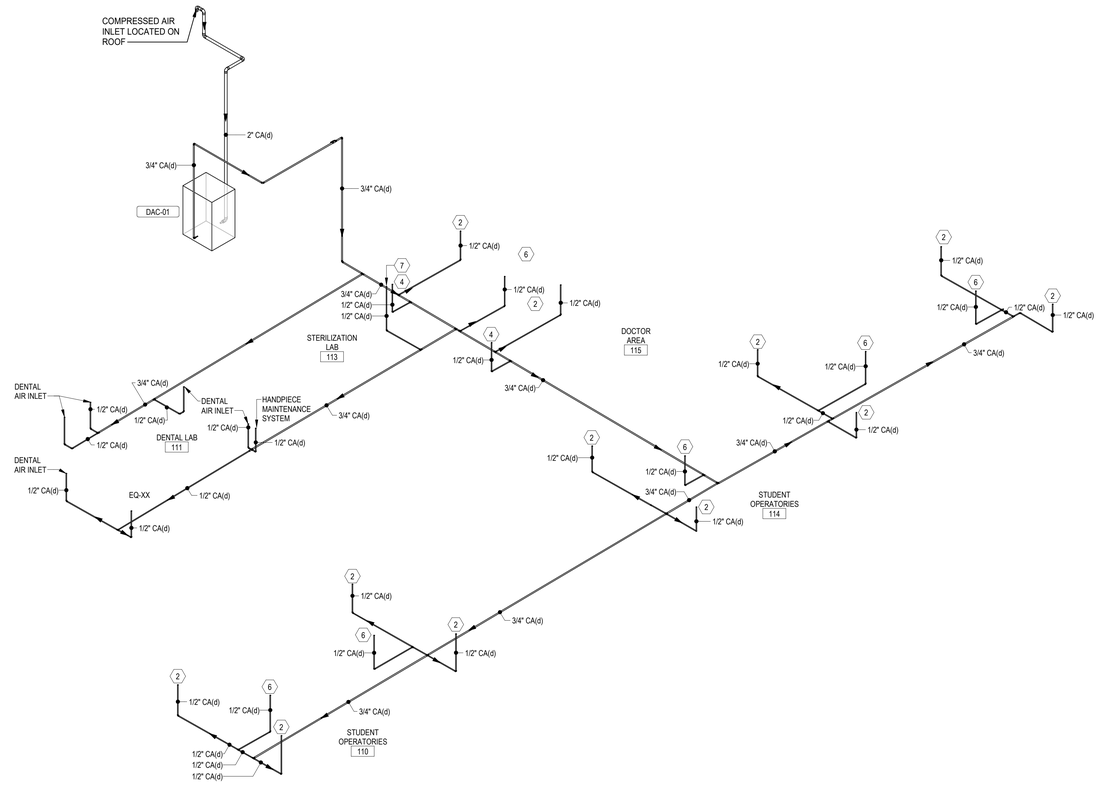
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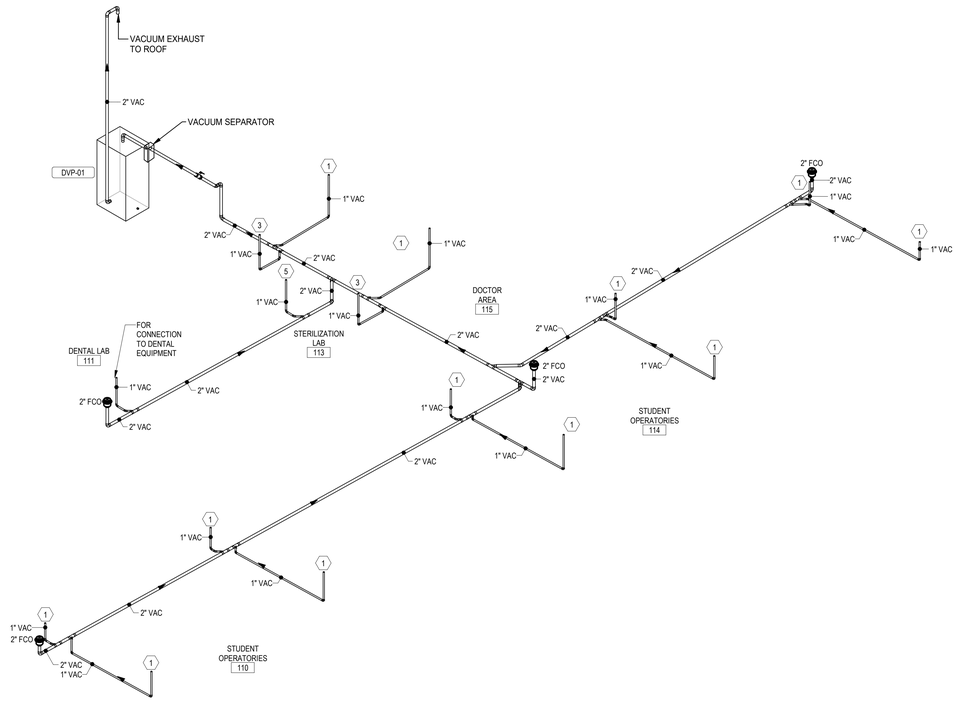
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1 DENTAL COMPRESSED AIR RISER DIAGRAM



2 DENTAL VACUUM RISER DIAGRAM

KEYNOTES

1	1" DENTAL VACUUM PIPE UP TO DENTAL EQUIPMENT EQ-01 FROM BELOW FLOOR SLAB. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
2	1/2" PIPE UP TO DENTAL EQUIPMENT EQ-01 FROM BELOW FLOOR SLAB. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
3	1" DENTAL VACUUM PIPE UP TO DENTAL EQUIPMENT EQ-09 FROM BELOW FLOOR SLAB. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
4	1/2" DENTAL COMPRESSED AIR PIPE UP TO DENTAL EQUIPMENT EQ-09 FROM BELOW FLOOR SLAB. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
5	1" DENTAL VACUUM PIPE UP TO DENTAL EQUIPMENT EQ-46 FROM BELOW FLOOR SLAB. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
6	1/2" DENTAL COMPRESSED AIR PIPE UP TO DENTAL EQUIPMENT EQ-06 FROM BELOW FLOOR SLAB. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.
7	1/2" DENTAL COMPRESSED AIR PIPE UP TO DENTAL EQUIPMENT EQ-29 FROM BELOW FLOOR SLAB. FOR CONNECTION REQUIREMENTS SEE DENTAL EQUIPMENT PROVIDERS DRAWINGS.

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DOMESTIC FIXTURE SCHEDULE

ID	DESCRIPTION	FLOW FIXTURE WATER FLOW	FLUSH FIXTURE VOL. PER FLUSH	WASTE ROUGH-IN PIPE SIZE	VENT PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATER ROUGH-IN PIPE SIZE	FLA	MCA	MOCP	VOLT	PH	SPECIFICATION
WC-3A	WATER CLOSET - WALL HUNG - ADA		1.28 gal	4"	2"	1-1/4"		5.0 A	6.3 A	15.0 A	120 V	1	EXPOSED, HARD-WIRED INFRARED FLUSH VALVE W/ MANUAL OVERRIDE BUTTON, HANDICAPPED
LAV-3A	LAVATORY - WALL HUNG - ADA	0.35 GPM		1-1/4"	1-1/4"	1/2"	1/2"	5.0 A	6.3 A	15.0 A	120 V	1	DECK MOUNTED, HARD-WIRED INFRARED FAUCET, HANDICAPPED
JS-6	SERVICE SINK	2.50 GPM		3"	2"	3/4"	3/4"	[redacted]					WALL HUNG W/ TRAP STANDARD
S-1A	COUNTER SINK - ADA	1.00 GPM		1-1/2"	1-1/2"	1/2"	1/2"						COUNTER MOUNTED, SINGLE BOWL, HANDICAPPED
S-4A	COUNTER SINK	1.00 GPM		1-1/2"	1-1/2"	1/2"	1/2"						COUNTER MOUNTED, DOUBLE BOWL, HANDICAPPED, WITH PLASTER TRAP
EM-4	EMERGENCY EYEWASH STATION	2.00 GPM				3/4"							DECK MOUNTED
OB-1	ICE MAKER OUTLET BOX	0.50 GPM				1/2"							ICE MAKER PROVIDED UNDER ARCH. DIVISION. UNDER THIS DIVISION PROVIDE ROUGH-IN, FINAL CONNECTION, & ICE MAKER WALL BOX
OB-2	COFFEE MAKER OUTLET BOX	0.50 GPM				1/2"							COFFEE MAKER PROVIDED UNDER ARCH. DIVISION. UNDER THIS DIVISION PROVIDE ROUGH-IN, FINAL CONNECTION, & COFFEE MAKER WALL BOX
HB-1	HOSE BIBB	2.50 GPM				1/2"							

EMERGENCY THERMOSTATIC MIXING VALVE SCHEDULE

ID	LOCATION NAME	LOCATION NO.	SERVES	VALVE FLOW RATE	PD AT VALVE FLOW RATE	PIPE SIZES CW INLET	PIPE SIZES HW INLET	PIPE SIZES TEMPERERD OUTLET	MOUNTING HEIGHT (CENTER OF CABINET)	REMARKS
EMV-01	DENTAL LAB	111	EMERGENCY EYEWASH STATION	0.5 GPM		3/4"	3/4"	3/4"	1' - 8 3/16"	
EMV-02	STERILIZATION LAB	113	EMERGENCY EYEWASH STATION	0.5 GPM		3/4"	3/4"	3/4"	1' - 8 3/16"	

BACKFLOW PREVENTER SCHEDULE

ID	LOCATION NAME	LOCATION NO.	SYSTEM	SIZE	VALVE PROPERTIES FLOW	VALVE PROPERTIES MAX. PD	DESCRIPTION
BFP-01	DENTAL MECH.	120	SYSTEM SERVED	1/2"	1.5 GPM	5.0 psi	DOUBLE CHECK VALVE ASSEMBLY

FLOOR DRAIN-SINK SCHEDULE

ID	DESCRIPTION	WASTE PIPE SIZE	SPECIFICATION
FD-1	FLOOR DRAIN	VARIES	CAST IRON, BOTTOM OUTLET, NICKLE BRONZE ROUND STRAINER, TRAP PRIMING CONNECTION
FS-3	FLOOR SINK	VARIES	12" SQUARE X 8" DEEP SANITARY FLOOR SINK

TRAP PRIMING STATION SCHEDULE

ID	LOCATION NAME	LOCATION NO.	MOUNTING HEIGHT (A.F.F.)	FLA	MCA	MOCP	VOLTS	PH	MOUNTING	REMARKS
TPS-01			4' - 0"	5.0 A	6.3 A	15.0 A	120 V	1	SURFACE	

DOMESTIC RE-CIRCULATION BALANCE VALVE SCHEDULE

ID	SYSTEM	FLUID PROPERTIES FLOW	REMARKS
HW-R			
DBV-01	HW-R	0.25 GPM	
DBV-02	HW-R	0.25 GPM	
DBV-03	HW-R	0.25 GPM	
DBV-04	HW-R	0.25 GPM	
DBV-05	HW-R	0.25 GPM	
DBV-06	HW-R	0.25 GPM	
DBV-07	HW-R	0.25 GPM	
DBV-08	HW-R	0.25 GPM	
DBV-09	HW-R	0.25 GPM	
DBV-10	HW-R	0.25 GPM	
DBV-11	HW-R	0.25 GPM	
DBV-12	HW-R	3.25 GPM	
		6.00 GPM	

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ABBREVIATIONS

A	AMPERE, AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EMH	ELECTRIC MANHOLE
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FSS	FUSED SAFETY SWITCH
GFEP	GROUND FAULT EQUIPMENT PROTECTION
GFI	GROUND FAULT INTERRUPTING
G	GROUND
GW	GROUND WIRE
H	HIGH
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
L	LOW
LRA	LOCKED ROTOR AMPERES
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MLO	MAIN LUGS ONLY
MPOP	MAIN POINT OF PRESENCE
MTD	MOUNTED
MH	MOUNTING HEIGHT/MANHOLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFSS	NONFUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTERS
P	POLE, POLES
Ø,PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RAF	RETURN AIR FAN
RGS	RIGID GALVANIZED STEEL
RL	RELOCATED
RR	REMOVE AND RELOCATE
RX	REMOVE EXISTING
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UH	UNIT HEATER
V	VOLT, VOLTS
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
UV	UNIT VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VR	VANDALL RESISTANT
W	WATTS, WIRE, WIRES
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES

1. GENERAL NOTES ON THIS DRAWING SHALL APPLY TO ALL ELECTRICAL DRAWINGS ON THIS PROJECT. CAREFULLY READ ALL GENERAL NOTES PRIOR TO COMMENCEMENT OF WORK.
2. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, KITCHEN AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
3. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIPMENT AND DIMENSIONAL INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF SERVICE EQUIPMENT AND WIRING.
4. PROVIDE PROPER WORKING CLEARANCE AT ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH 2017 NATIONAL ELECTRICAL CODE ARTICLE 110-26 SPACES ABOUT ELECTRICAL EQUIPMENT. ALL SPACES SHALL BE CONSIDERED AS CONDITION 2 OR 3. MINIMUM WORKING SPACE WIDTH SHALL BE 30 INCHES OR MATCH THE WIDTH OF THE EQUIPMENT WHICH EVER IS GREATER. IN ALL CASES WORK SPACE SHALL PERMIT AT LEAST 90 DEGREE OPENING OF EQUIPMENT DOORS OR HINGED PANELS.
5. COORDINATE MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS AND CASEWORK DRAWINGS PRIOR TO ROUGH-IN.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC. 20 AMPERE CIRCUITS SHALL BE SIZED AS FOLLOWS:

20 AMPERE CIRCUITS				
120 VOLT		277 VOLT		MINIMUM CONDUIT SIZE
WIRING LENGTH	WIRE SIZE	WIRING LENGTH	WIRE SIZE	
0' - 60'	#12	0' - 130'	#12	3/4"
60' - 100'	#10	130' - 210'	#10	3/4"
100' - 150'	#8	210' - 340'	#8	3/4"
150' - 240'	#6	340' - 540'	#6	3/4"
OVER 240'	#4	OVER 540'	#4	1"

NOTES:
BRANCH CIRCUITS IN PANELBOARDS WITH 200% RATED NEUTRAL BUS, ALL DIMMED LIGHTING CIRCUITS, AND ALL CIRCUITS WITH ECM MOTORS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

8. WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND MAKE FINAL CONNECTIONS.
9. FEEDERS, BRANCH CIRCUITS AND TELECOMMUNICATIONS WIRING WHICH MUST BE RUN ACROSS FINISHED OPEN AREAS SHALL BE ROUTED AS DIRECTED BY THE ARCHITECT.
10. ELECTRICAL BOXES IN FIRE RATED PARTITIONS SHALL NOT EXCEED 16 SQUARE INCHES IN AREA (IF 4"x4"), SHALL BE MADE OF STEEL, AND SHALL BE SUCH THAT THE CUMULATIVE AREA OF BOX "CUTOUTS" IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL SHALL BE SEPARATED BY A HORIZONTAL AND VERTICAL DISTANCE OF NOT LESS THAN 24 INCHES. THE ELECTRICAL CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENSIONED ON THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.
11. PROVIDE ALL WIRING ABOVE MESH AND PERFORATED CEILINGS IN RACEWAY.
12. PROVIDE CONDUIT AND BOXES FOR DOOR HARDWARE AND ACCESS CONTROL AS INDICATED

LIGHTING LEGEND

SYMBOL	DESCRIPTION
A / N, a	LIGHTING FIXTURE - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE SUBSCRIPT INDICATES SWITCH DESIGNATION (WHERE INDICATED), UPPER-CASE SUBSCRIPT INDICATES DAYLIGHT HARVESTING CONTROL ZONE
	LIGHTING FIXTURE - 2'X4" UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE SUBSCRIPT INDICATES SWITCH DESIGNATION (WHERE INDICATED), UPPER-CASE SUBSCRIPT INDICATES DAYLIGHT HARVESTING CONTROL ZONE
	LIGHTING FIXTURE - 2'X2' UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE SUBSCRIPT INDICATES SWITCH DESIGNATION (WHERE INDICATED), UPPER-CASE SUBSCRIPT INDICATES DAYLIGHT HARVESTING CONTROL ZONE
	STRIP LIGHTING FIXTURE - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH DESIGNATION (WHERE INDICATED)
	WALL SCONCE LIGHTING FIXTURE - UPPERCASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH LEG (WHERE INDICATED)
	DOWNLIGHT LIGHTING FIXTURE - UPPER-CASE LETTER INDICATES FIXTURE TYPE, LOWER-CASE LETTER INDICATES SWITCH LEG (WHERE INDICATED)
	INDICATES LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT
	TRACK LIGHTING FIXTURE - UPPER-CASE LETTER INDICATES FIXTURE TYPE
	CANOPY FIXTURE - LETTER INDICATES FIXTURE TYPE, DIRECTIONAL ARROW INDICATES AIMING
	EMERGENCY LIGHTING UNIT - INTEGRAL BATTERY; REMOTE HEAD - M.H. 8'-0"AFF U.O.N.
	EXIT SIGN - CEILING-MOUNTED, WALL-MOUNTED, M.H. 8'-0" AFF OR 6" ABOVE DOOR FRAME UON; SHADING INDICATES ILLUMINATED FACE, DIRECTIONAL ARROWS AS INDICATED/REQUIRED - EXIT SIGNS SHALL GENERALLY BE CENTERED OVER THE DOOR OPENING
	EXIT SIGN - CEILING-MOUNTED, WALL-MOUNTED, M.H. 8'-0" AFF OR 6" ABOVE DOOR FRAME UON; WITH INTEGRAL EMERGENCY LIGHTING HEADS
$, $3, $4	LINE VOLTAGE TOGGLE SWITCH - SINGLE POLE, 3-WAY, 4-WAY; SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED - M.H. 48" TO TOP
$P	LINE VOLTAGE PILOT LIGHT TOGGLE SWITCH, LIT WHEN ON; M.H. 48" AFF TO TOP
$EXP	LINE VOLTAGE EXPLOSION PROOF PILOT LIGHT TOGGLE SWITCH, LIT WHEN ON; M.H. 48" AFF TO TOP
$T	LINE VOLTAGE LIGHTED TIME SWITCH; PUSHBUTTON STYLE; M.H. 48" AFF TO TOP
$K	LINE VOLTAGE KEY SWITCH; M.H. 48" AFF TO TOP
$, $A, $B	LOW VOLTAGE SWITCH; SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED. M.H. 48" AFF TO TOP
$D, $M	LOW VOLTAGE DIMMER SWITCH, DIMMER/COLOR TEMPERATURE SWITCH; SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED. M.H. 48" AFF TO TOP
$K	LOW VOLTAGE MAINTAINED KEY SWITCH; M.H. 48" AFF TO TOP
OS a F	OCCUPANCY SENSOR, LOW VOLTAGE DIGITAL W/ CONTROLLER, DUAL TECHNOLOGY, CEILING, WALL MOUNT 10'-0" AFF UON; SUBSCRIPT F- CORNER COVERAGE. LOWER-CASE SUBSCRIPT INDICATES FIXTURES CONTROLLED
OS a H	OCCUPANCY SENSOR, HALLWAY COVERAGE, LOW VOLTAGE DIGITAL W/ CONTROLLER, PASSIVE INFRARED, CEILING, WALL MOUNT 10'-0" AFF UON. LOWER-CASE SUBSCRIPT INDICATES FIXTURES CONTROLLED
VS a F	VACANCY SENSOR, LOW VOLTAGE DIGITAL W/ CONTROLLER, DUAL TECHNOLOGY, CEILING, WALL MOUNT 10'-0" AFF UON; SUBSCRIPT F- CORNER COVERAGE. LOWER-CASE SUBSCRIPT INDICATES FIXTURES CONTROLLED
OS R	OCCUPANCY SENSOR, LOW VOLTAGE DIGITAL W/ CONTROLLER, ULTRASONIC, CEILING MOUNTED
OS A	OCCUPANCY SENSOR, LOW VOLTAGE DIGITAL, DUAL TECHNOLOGY - SINGLE LOAD, WALL SWITCH TYPE; M.H. 48" AFF TO TOP
OS B	OCCUPANCY SENSOR, LOW VOLTAGE DIGITAL, DUAL TECHNOLOGY - SINGLE LOAD, 3-WAY, WALL SWITCH TYPE; M.H. 48" AFF TO TOP
VS A	VACANCY SENSOR, LOW VOLTAGE DIGITAL, DUAL TECHNOLOGY - SINGLE LOAD, WALL SWITCH TYPE; M.H. 48" AFF TO TOP
VS B	VACANCY SENSOR, LOW VOLTAGE DIGITAL, DUAL TECHNOLOGY - SINGLE LOAD, 3-WAY, WALL SWITCH TYPE; M.H. 48" AFF TO TOP
VS D	VACANCY SENSOR, LOW VOLTAGE DIGITAL, DUAL TECHNOLOGY - SINGLE LOAD, DIMMING, WALL SWITCH TYPE; M.H. 48" AFF TO TOP
ER	EMERGENCY TRANSFER RELAY; MOUNT ABOVE CEILING IN NEMA 1 ENCLOSURE
LS LS	PHOTOELECTRIC DAYLIGHT HARVESTING DIMMING CONTROL SENSOR; CEILING, WALL MOUNT M.H. 11'-0" TO TOP UON. SUBSCRIPT INDICATES FIXTURES CONTROLLED
PC	EXTERIOR PHOTOELECTRIC SWITCH; ROOF, WALL MOUNTED 12'-0" AFG UON
LC#	LIGHTING CONTACTOR - SEE LIGHTING CONTACTOR SCHEDULE
TC	TIME CLOCK - SEE TIME CLOCK SCHEDULE

POWER LEGEND

SYMBOL	DESCRIPTION
	SINGLE RECEPTACLE - M.H. 18" AFF U.O.N.
USB, IG	DUPLEX, DOUBLE DUPLEX RECEPTACLE - M.H. 18" AFF U.O.N., IG INDICATES ISOLATED GROUND TYPE, USB INDICATES USB TYPE
	DUPLEX, DOUBLE DUPLEX RECEPTACLE - M.H. 6" ABOVE COUNTER OR 42" AFF U.O.N., 48" AFF MAX.
	DUPLEX, DOUBLE DUPLEX RECEPTACLE - GFCI TYPE - M.H. 18" AFF U.O.N.
WP, WP	DUPLEX, DOUBLE DUPLEX RECEPTACLE - WEATHER-RESISTANT GFCI TYPE WITH WEATHERPROOF WHILE-IN-USE COVER - M.H. 18" AFF U.O.N.
	DUPLEX RECEPTACLE - HALF CONTROLLED TYPE , DOUBLE DUPLEX CONTROLLED RECEPTACLE (REFER TO DETAIL FOR CONFIGURATION)
	DUPLEX, DOUBLE DUPLEX RECEPTACLE IN FS BOX ON CONDUIT STUB
	LOW DUPLEX RECEPTACLE & HIGH DOUBLE DUPLEX RECEPTACLE, M.H. 18" AFF FOR LOW; M.H. 4'-8" FOR HIGH, U.O.N.
1, 2	DUPLEX RECEPTACLE - MOUNTED IN FLUSH-MOUNTED SINGLE DEVICE FLOOR BOX, NUMBER INDICATES TYPE
	DOUBLE DUPLEX RECEPTACLE - MOUNTED TO FLOOR TO SUIT DENTAL CHAIR
	DUAL CHANNEL SURFACE METALLIC RACEWAY WITH DEVICES AS INDICATED. REFER TO TECHNOLOGY DWGS FOR ADDITIONAL WORK. MOUNT 47" AFF TO TOP UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION WITH CASEWORK
14-50R	SPECIAL PURPOSE RECEPTACLE OUTLET - NEMA CONFIGURATION AS NOTED - M.H. 18" AFF U.O.N.
	DISTRIBUTION PANELBOARD - SURFACE-MOUNTED, TOP 6'-6" AFF
	PANELBOARD - SURFACE-MOUNTED, FLUSH-MOUNTED, TOP 5'-6" AFF
T#	TRANSFORMER - REFER TO DRY TYPE TRANSFORMER SCHEDULE
T#	TRANSFORMER - PAD-MOUNTED
	ENCLOSURE OR CABINET AS NOTED
	ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE U.O.N.; MOUNT 5'-6" AFF, SIZE AS NOTED
F, F	SAFETY DISCONNECT SWITCH - FUSED, NON-FUSED IN NEMA 1 ENCLOSURE U.O.N. - MOUNT TOP 48" AFF U.O.N.; RATING AND FUSING AS NOTED
	MAGNETIC MOTOR CONTROLLER; FVNR WITH CONTROL XFMR, RED AND GREEN INDICATING LIGHTS, HOA SELECTOR SWITCH IN NEMA 1 ENCLOSURE U.O.N.; MOUNT 5'-6" AFF TO TOP U.O.N.
	COMBINATION MAGNETIC MOTOR CONTROLLER; FVNR WITH CONTROL XFMR, RED AND GREEN INDICATING LIGHTS, HOA SELECTOR SWITCH AND DISCONNECT SWITCH IN NEMA 1 ENCLOSURE U.O.N.; MOUNT 5'-6" AFF TO TOP U.O.N.
$L, $L2	TOGGLE SWITCH - SINGLE POLE, TWO POLE - HORSEPOWER RATED, WITH LOCKABLE HANDLE GUARD COVERPLATE - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP UON
$M	MANUAL MOTOR CONTROLLER - SINGLE POLE, WITH H.O.A. SWITCH AND LOCKABLE HANDLE GUARD COVERPLATE IN NEMA 1 ENCLOSURE U.O.N. - M.H. 48" AFF TO TOP UON
$J2, $J3	MANUAL MOTOR SWITCH - TWO POLE, THREE POLE - 30A, 600VAC, WITH LOCKABLE HANDLE GUARD COVERPLATE - M.H. 48" AFF TO TOP UON
$MD	MOTOR DISCONNECT SWITCH - 60A, 3P, 600V WITH LOCKABLE HANDLE, M.H. 48" AFF TO TOP UON
$FS	FAN SPEED CONTROL SWITCH - M.H. 48" AFF TO TOP - FURNISHED UNDER DIVISION 23, INSTALLED UNDER DIVISION 26
	TO GROUND
	EPO PUSH-BUTTON - M.H. 48" AFF TO TOP
	ELECTRIC HEAT TRACE TAPE
T	ELECTRIC HEAT TRACE THERMOSTAT
EPP	POWER POLE
VFD	VARIABLE FREQUENCY DRIVE - FURNISHED UNDER DIVISION 23, INSTALLED UNDER DIVISION 26
ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
SPD	SURGE PROTECTION DEVICE
	ELECTRICAL GROUNDING BUS BAR
	MOTOR; AS NOTED
	PUSHBUTTON - M.H. 48" AFF TO TOP UON
J	EXTERIOR IN-GRADE JUNCTION BOX
H	HANDHOLE
E	MANHOLE
PM	POWER ASSIST DOOR - PROVIDED UNDER DIVISION 08
MD	MOTORIZED BLINDS/SHADES - PROVIDED UNDER DIVISION 12
$MS	RAISE/LOWER SWITCH FOR MOTORIZED SHADES - FURNISHED UNDER DIVISION 12, INSTALLED UNDER DIVISION 26
C#	CONTACTOR - # INDICATES NUMBER OF POLES

COMMUNICATIONS/SECURITY LEGEND

SYMBOL	DESCRIPTION
W, W	WIRELESS ACCESS POINT ROUGH IN - MOUNTED IN CEILING, WALL MOUNT 10'-0" AFF UON.
T	DATA OUTLET ROUGH IN - M.H. 18" A.F.F. U.O.N. NUMBER, WHERE INDICATED MARKS QUANTITY OF PORTS WHERE NOT 1 OR 2.
	2-PORT DATA OUTLET ROUGH IN - M.H. 18" A.F.F. U.O.N. C INDICATES MOUNTING 6" ABOVE COUNTER OR 42" AFF.
	VIDEO SURVEILLANCE SYSTEM - CAMERA ROUGH IN, CEILING, WALL MOUNT 10'-0" AFF UON.
TV	TELEVISION COMBINATION POWER/DATA OUTLET- M.H. 60" AFF U.O.N.
CR	CARD READER ROUGH-IN - M.H. 48" A.F.F. TO TOP U.O.N
DB	DOORBELL
KP	KEYPAD
S	SPEAKER
PS	POWER SUPPLY

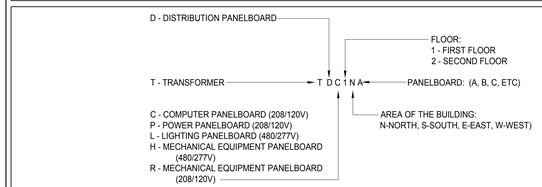
GENERAL ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT CONDUIT AND WIRING CONCEALED IN CEILING OR WALL SPACE, OR SURFACE MOUNTED WHERE NO CEILING OR WALL SPACE EXISTS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
	BRANCH CIRCUIT CONDUIT AND WIRING IN SLAB, UNDER FLOOR OR UNDERGROUND; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
	4" CONDUIT SLEEVE THROUGH WALL, LOCATED ABOVE CEILING. PROVIDE FIRE STOP AS REQUIRED.
L1A1-1	HOMERUN TO PANELBOARD - REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES. (NOTE: CONDUCTOR SIZE DEPENDENT ON HOMERUN LENGTH)
	EQUIPMENT CONNECTION
	CONDUIT UP
	CONDUIT DOWN
	JUNCTION BOX; CEILING, WALL MOUNTED
	ENCLOSURE OR CABINET AS NOTED
#	DRAWING NOTE - NEW WORK
#	EQUIPMENT DESIGNATION
#/E###	DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER
	ITEMS SHOWN DASHED/HEAVY ARE TO BE REMOVED
	ITEMS SHOWN SOLID/HEAVY ARE NEW WORK
	ITEMS SHOWN SOLID/LIGHT ARE EXISTING TO REMAIN
RL	ITEMS SHOWN DASHED/HEAVY WITH RL SUBSCRIPT ARE TO BE REMOVED AND RELOCATED. EXTEND ASSOCIATED CONDUIT AND WIRING TO NEW LOCATION AS REQUIRED.
# #, #	CIRCUIT NUMBERS INDICATED ADJACENT TO WIRING DEVICES AND FIXTURES INDICATE CIRCUIT DESIGNATIONS. EXTEND HOMERUNS TO DEVICES WITH SAME CIRCUIT DESIGNATIONS.
X, XXX	PART PLAN NO. / DRAWING NO. — PART PLAN DESIGNATION
X, XXX	VIEW DIRECTION / SECTION NO. / DRAWING NO. — SECTION DESIGNATION

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
FACP, FACP	FIRE ALARM SYSTEM - CONTROL PANEL - SURFACE-MOUNTED, FLUSH-MOUNTED - TOP 5'-6" AFF
FAAP, FAAP	FIRE ALARM SYSTEM - ANNUNCIATOR PANEL - SURFACE-MOUNTED, FLUSH-MOUNTED - TOP 5'-6" AFF
NAC, NAC	FIRE ALARM SYSTEM - NAC PANEL - SURFACE-MOUNTED, FLUSH-MOUNTED - TOP 5'-6" AFF
F	FIRE ALARM - MANUAL PULL STATION - M.H. 42" TO BOTTOM, 48" TO TOP
F, F	FIRE ALARM SYSTEM - COMBINATION SPEAKER/FLASHING STROBE LIGHT - WALL-MOUNTED 7'-6" AFF OR 6" FROM CEILING, WHICHEVER IS LOWER, CEILING MOUNTED, NUMBER INDICATES CANDELLA RATING. IF NO CANDELA RATING IS INDICATED PROVIDE 110CD
F, F	FIRE ALARM SYSTEM - FLASHING STROBE LIGHT - WALL-MOUNTED 7'-6" AFF OR 6" FROM CEILING, WHICHEVER IS LOWER, CEILING MOUNTED, NUMBER INDICATES CANDELLA RATING. IF NO CANDELA RATING IS INDICATED PROVIDE 110CD
C	CARBON MONOXIDE BLUE STROBE LIGHT; WALL MOUNTED 7'-6" AFF OR 6" FROM CEILING, WHICHEVER IS LOWER
SD	FIRE ALARM SYSTEM - SMOKE DETECTOR - CEILING MOUNTED, WALL MOUNTED 7'-6" AFF U.O.N.
SD, R	FIRE ALARM SYSTEM - SMOKE DETECTOR FOR ELEVATOR RECALL - CEILING MOUNTED
SD, T, SD, R	FIRE ALARM SYSTEM - BEAM TYPE SMOKE DETECTOR - T - TRANSMITTER , R - RECEIVER
HD	FIRE ALARM SYSTEM - HEAT DETECTOR - CEILING MOUNTED, WALL MOUNTED 7'-6" AFF U.O.N.
CO	FIRE ALARM SYSTEM - CARBON MONOXIDE DETECTOR - CEILING MOUNTED, WALL MOUNTED 18" AFF U.O.N.
FS	FIRE ALARM SYSTEM - FLOW SWITCH
TS	FIRE ALARM SYSTEM - TAMPER SWITCH
DD, DD, WP	FIRE ALARM SYSTEM - DUCT DETECTOR - STANDARD, WEATHERPROOF
RT	FIRE ALARM SYSTEM - DUCT DETECTOR REMOTE TEST STATION - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP
MM	FIRE ALARM SYSTEM - ADDRESSIBLE MONITOR MODULE
CM	FIRE ALARM SYSTEM - ADDRESSIBLE CONTROL MODULE
SMD	SMOKE DAMPER OR COMBINATION FIRE SMOKE DAMPER; PROVIDE MONITOR MODULE FOR SMOKE DETECTOR PROVIDED WITH DAMPER AND 120V-24V CONTROL POWER TRANSFORMER WITH PRIMARY AND SECONDARY FUSING AS REQUIRED
ML	FIRE ALARM SYSTEM - MAGNETIC DOOR LOCK - PROVIDED UNDER DIVISION 08, CONNECTED UNDER DIVISION 28 - INTERLOCK WITH FACP TO RELEASE LOCKS DURING FIRE ALARM - FIELD COORDINATE MOUNTING HEIGHT WITH DOORS
ECS, ECS	EMERGENCY COMMUNICATIONS SYSTEM - CONTROL PANEL - SURFACE-MOUNTED, FLUSH-MOUNTED - TOP 6'-6" AFF
M	EMERGENCY COMMUNICATIONS SYSTEM - REMOTE MICROPHONE - M.H. 42" AFF TO BOTTOM, 48" AFF TO TOP
H P	FIRE ALARM - MAGNETIC DOOR HOLDER; SUBSCRIPT "P" INDICATES PANIC BUTTON HOLD OPEN INTERCONNECTED TO SECURITY SYSTEM

ELECTRICAL EQUIPMENT DESIGNATIONS



*NOTES:
1. NOT ALL ITEMS WITHIN LEGEND(S) MAY BE UTILIZED ON THIS PROJECT.
2. ALL MOUNTING HEIGHTS ARE TO CENTERLINE UNLESS OTHERWISE NOTED

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CONSTRUCTION MANAGER

The professional services of the architect are undertaken and performed in the interest of DELAWARE TECHNICAL COMMUNITY COLLEGE. No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

LEGENDS AND ABBREVIATIONS ELECTRICAL

ISSUE FOR BID



ISSUED FOR

NO.	DATE	DESCRIPTION
0	10/15/2026	Issue for Bid

Date	10/12/2026
Scale	AS NOTED
Drawn	KML
Checked	KML
Approved	KML
Project	25040
Sheet	E001

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	VOLTS	INPUT WATTS	LAMP	MOUNTING	REMARKS
A1	2'X2' LED TROFFER WITH 22-GA. CRS HOUSING, WHITE POWDERCOAT FINISH, DIFFUSE RIBBED ACRYLIC ROUND LENS, 0-10V 1% ELECTRONIC DIMMING DRIVER	H.E.WILLIAMS COLUMBIA LITHONIA COOPER ELITE	PT-22-L43/840-RA-DIM1-UNV	277	32.2	LED 4000K, 80 CRI, 4194 LUMENS	RECESSED/CEILING	
A2	SAME AS TYPE A1, EXCEPT LOWER LUMEN PACKAGE	H.E.WILLIAMS COLUMBIA LITHONIA COOPER ELITE	PT-22-L38/840-RA-DIM1-UNV	277	21.5	LED 4000K, 80 CRI, 2924 LUMENS	RECESSED/CEILING	
A3	SAME AS TYPE A1, EXCEPT HIGHER LUMEN PACKAGE	H.E.WILLIAMS COLUMBIA LITHONIA COOPER ELITE	PT-22-L38/840-RA-DIM1-UNV	277	50.2	LED 4000K, 80 CRI, 6073 LUMENS	RECESSED/CEILING	
B1	2'X4' LED TROFFER WITH 22-GA. CRS HOUSING, WHITE POWDERCOAT FINISH, DIFFUSE RIBBED ACRYLIC ROUND LENS, 0-10V 1% ELECTRONIC DIMMING DRIVER	H.E.WILLIAMS COLUMBIA LITHONIA COOPER ELITE	PT-24-L38/840-RA-DIM1-UNV	277	28.5	LED 4000K, 80 CRI, 3782 LUMENS	RECESSED/CEILING	
B2	SAME AS TYPE B1 EXCEPT HIGHER LUMEN PACKAGE	H.E.WILLIAMS COLUMBIA LITHONIA COOPER ELITE	PT-24-L38/840-RA-DIM1-UNV	277	45.5	LED 4000K, 80 CRI, 6181 LUMENS	RECESSED/CEILING	
C1	4' LONG ROUND LENS LED STRIPLIGHT WITH CODE GAUGE STEEL HOUSING, WHITE POWDERCOAT FINISH, LINEAR RIBBED DIFFUSE ACRYLIC LENS, 0-10V ELECTRONIC DIMMING DRIVER	H.E.WILLIAMS LITHONIA CURRENT COOPER ELITE	75R-4-L50/840-DIM-UNV	277	42	LED 4000K, 80 CRI, 4867 LUMENS	SUSPENDED 9'-0" AFF, UON	
D1	WALL MOUNTED FORWARD THROW EXTERIOR FULL CUTOFF WEDGE LED FIXTURE	H.E.WILLIAMS COLUMBIA LITHONIA COOPER ELITE	VWPV-L30-830-TFT-BLK-SDGL-DIM-UNV	277	27	LED 3000K, 80 CRI, 3258 LUMENS	WALL 11'-0" AFF, UON	
F1	6" DIA. ROUND LED DOWNLIGHT WITH FLUSH DIFFUSE ACRYLIC LENS, DIE CAST TRIM, WIDE DISTRIBUTION, GALVANIZED STEEL MOUNTING FRAME, 0-10V ELECTRONIC DIMMING DRIVER	H.E.WILLIAMS GOTHAM PRESCOLITE ELITE PORTFOLIO	6DR-TL-L10/840-DIM-UNV-L-W-OF-CS	277	8.7	LED 4000K, 80 CRI, 774 LUMENS	RECESSED/CEILING	
EXIT	LED EDGE LIT EMERGENCY EXIT SIGN WITH EXTRUDED ALUMINUM HOUSING, RED STENCIL LETTERS, BRUSHED ALUMINUM FINISH, WITH DIRECTIONAL CHEVRON KNOCKOUTS, SINGLE OR TWIN FACE AND MOUNTING TO SUIT LOCATION	DUAL-LITE LITHONIA LIGHTALARMS SURELITES EVENLITE	LE-_-_-R-_-N-E-I	277	2.8	LED ARRAY	UNIVERSAL	

LIGHTING FIXTURE SCHEDULE NOTES

1. COORDINATE LIGHTING FIXTURES INDICATED ON DRAWINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS. VERIFY CEILING CONSTRUCTION IN ALL AREAS WITH ARCHITECTURAL DRAWINGS AND PROVIDE ALL MOUNTING FRAMES AND HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION, SUITABLE FOR THE CEILING TYPE AND CONFIGURATION.
2. REFER TO LIGHTING SPECIFICATIONS FOR ADDITIONAL FIXTURE AND DRIVER INFORMATION. PROVIDE DRIVERS FOR VOLTAGE AS INDICATED.
3. FIRST NAMED PRODUCT IS BASIS OF DESIGN. PROVIDE PRODUCTS WHICH INCLUDE ALL FEATURES AND ACCESSORIES AS INDICATED IN THE DESCRIPTION AND MODEL NUMBER OF THE BASIS OF DESIGN PRODUCT.
4. ALTERNATE MANUFACTURERS INCLUDE, BUT ARE NOT LIMITED TO, THOSE LISTED BELOW. BEING LISTED DOES NOT GUARANTEE APPROVAL OF SUBMITTED FIXTURES; FIXTURE MUST COMPLY WITH PROJECT REQUIREMENTS AND MEET OR EXCEED BASIS OF DESIGN FIXTURE PERFORMANCE.
5. FIXTURES WITH "D" SUFFIX SHALL BE CONTROLLED BY LIGHT LEVEL SENSOR FOR DAYLIGHT HARVESTING.
6. ALL FINISH SELECTIONS SHALL BE AS APPROVED BY THE ARCHITECT. COLOR TO BE SELECTED FROM THE MANUFACTURER'S FULL RANGE, INCLUDING CUSTOM COLOR AS NOTED.
7. MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.
8. FIXTURES WITH FILLED-IN CIRCLE SHALL BE CONNECTED TO EMERGENCY CIRCUIT
9. FIXTURES WITH "F" SUFFIX SHALL BE PROVIDED WITH FLANGES OR OTHER MOUNTING PROVISIONS TO SUIT GYPSUM CEILING.
10. FIXTURES WITH "E" SUFFIX SHALL BE PROVIDED WITH INTEGRAL TRANSFER RELAY

LIGHTING CONTROL MATRIX

	AUTO ON	MANUAL ON	AUTO OFF	DELAY TIME	DIMMING	TIME SCHEDULE ON	TIME SCHEDULE OFF	SPECIAL COMMENTS
CORRIDORS/CIRCULATION	Y		Y	20	N			ACTIVATION OF FIRE ALARM SYSTEM SHALL TURN ON LIGHTING TO 100%
RECEPTION/WAITING AREAS, LABS, INSTRUCTIONAL	Y		Y	20	Y			ACTIVATION OF FIRE ALARM SYSTEM SHALL TURN ON LIGHTING TO 100%
STORAGE ROOMS		Y	Y	10	N			
MECHANICAL/ ELECTRICAL/ TELECOM RMS		Y			N			LIGHTED TOGGLE SWITCHES
OFFICES/BREAK ROOM		Y	Y	15	Y			DIMMING PER ZONE. DESKS SHALL HAVE 100% MINOR MOTION COVERAGE
OPERATORIES/DOCTOR AREA/X-RAY ROOMS	Y		Y	20	Y			DIMMING PER ZONE.
RESTROOMS (SINGLE)		Y	Y	15	N			
RESTROOMS (GANG)	Y		Y	15	N			ACTIVATION OF FIRE ALARM SYSTEM SHALL TURN LIGHTING 'ON' TO 100%
EXTERIOR EMERGENCY LIGHTS					N	DUSK	DAWN	PHOTOCELL ON/OFF W/MANUAL OVERRIDE IN MAIN ELECTRICAL ROOM

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

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LIGHTING FIXTURE SCHEDULE

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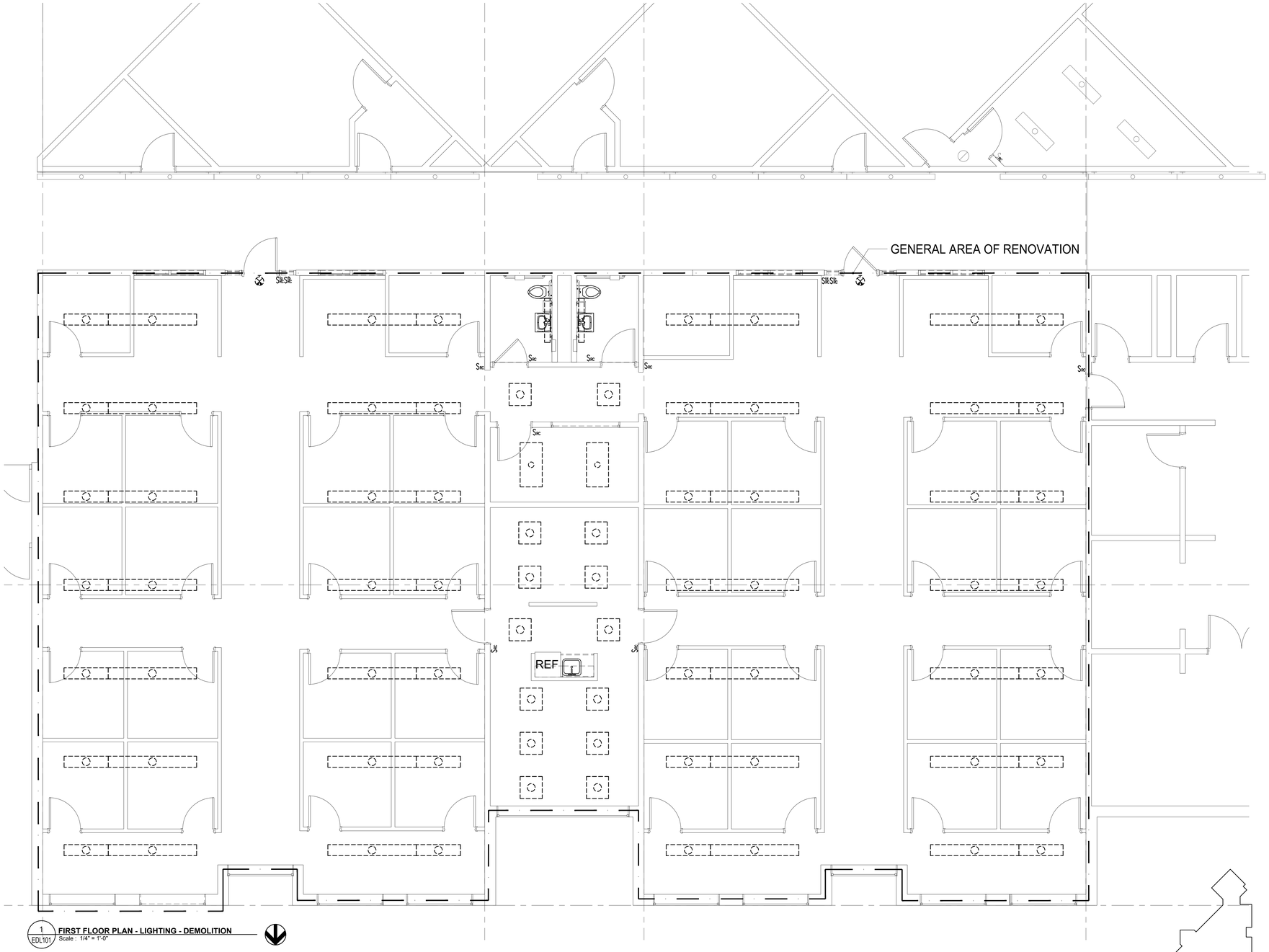
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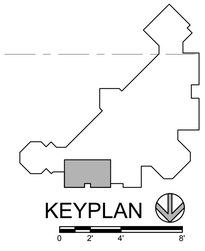
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DEMOLITION NOTES
(APPLY TO ALL DEMOLITION DRAWINGS)

1. DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING ELECTRICAL WORK. IN AREAS INDICATED TO BE RENOVATED, ALL EXISTING ELECTRICAL WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED. WHEN AN ITEM IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED ELECTRICAL WORK BACK TO POINT OF SOURCE UNLESS OTHERWISE NOTED. DISCONNECT AND REMOVE ELECTRICAL WORK ASSOCIATED WITH HVAC EQUIPMENT INDICATED TO BE REMOVED. REMOVAL OF EQUIPMENT SHALL BE BY OTHERS.
2. WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF THE BUILDING, OR WORK IN THE REMOVATION AREA IS INDICATED TO REMAIN, IT SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTROED TO NORMAL. COORDINATE ANY OUTAGES WITH OWNER 7 DAYS IN ADVANCE.
3. WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.
4. REMOVE AND REINSTALL CEILING AND CEILING MOUNTED DEVICES AS REQUIRED TO ACCOMMODATE NEW WORK.



1 / EDL101 **FIRST FLOOR PLAN - LIGHTING - DEMOLITION**
Scale : 1/4" = 1'-0"



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FIRST FLOOR PLAN LIGHTING - DEMOLITION

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PLAN NORTH

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DEMOLITION NOTES
(APPLY TO ALL DEMOLITION DRAWINGS)

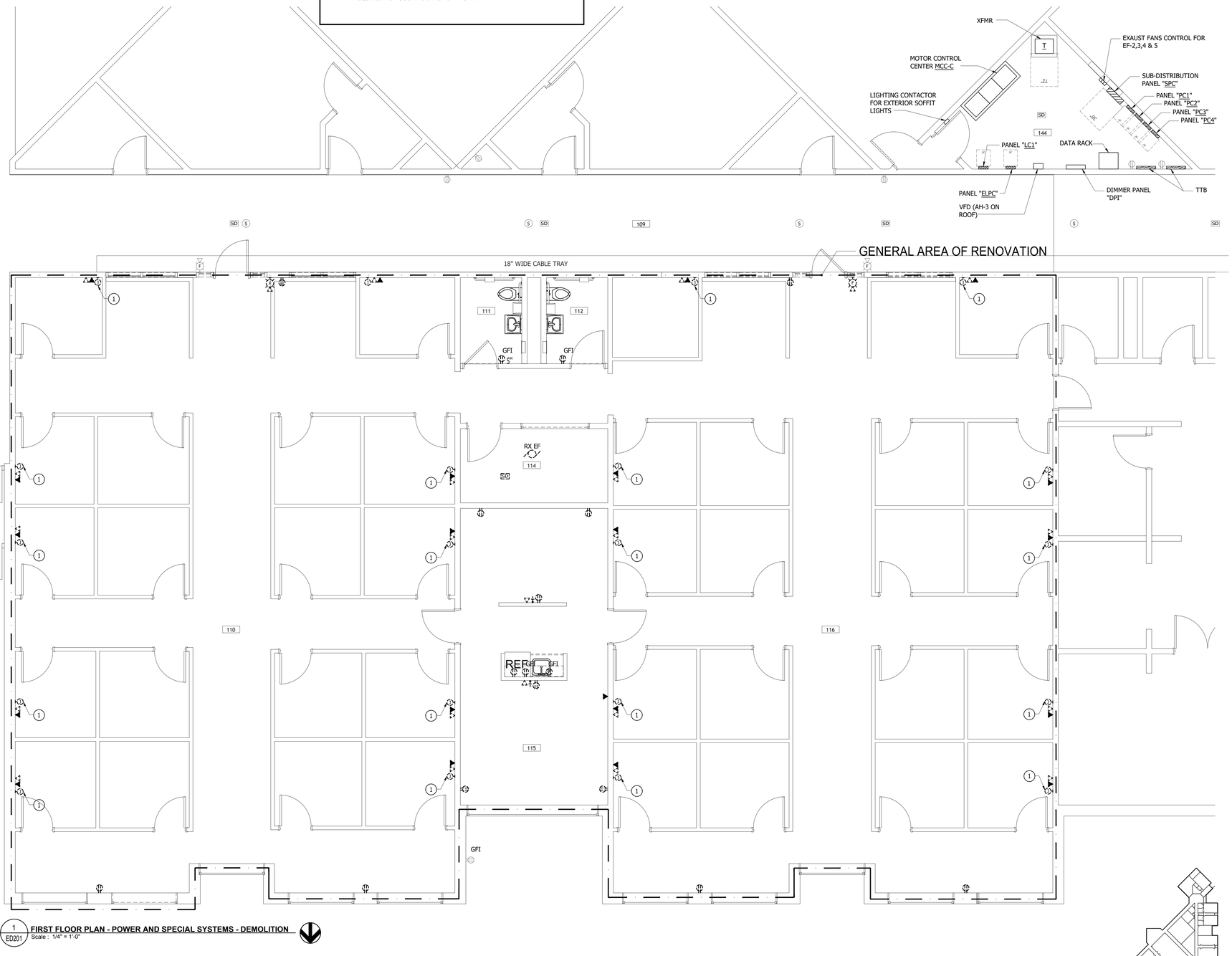
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2. WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF THE BUILDING, OR WORK IN THE REMOVATION AREA IS INDICATED TO REMAIN, IT SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTROED TO NORMAL. COORDINATE ANY OUTAGES WITH OWNER 7 DAYS IN ADVANCE.
3. WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.
4. REMOVE AND REINSTALL CEILING AND CEILING MOUNTED DEVICES AS REQUIRED TO ACCOMMODATE NEW WORK.

GENERAL NOTES:
(APPLY TO ALL DEMOLITION DRAWINGS)

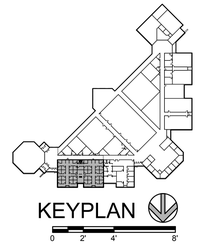
1. DATA OUTLETS, WIRELESS ACCESS POINTS, VIDEO SURVEILLANCE CAMERAS AND SPEAKERS SHALL BE DISCONNECTED AND RELOCATED OR REMOVED BY OWNER.

DRAWING NOTES
(APPLY TO THIS DRAWING ONLY)

(1) REMOVE POWER CONNECTIONS TO PRE-WIRED PARTITION FURNITURE.



1 ED201 **FIRST FLOOR PLAN - POWER AND SPECIAL SYSTEMS - DEMOLITION**
Scale : 1/4" = 1'-0"



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FIRST FLOOR PLAN POWER AND SPECIAL SYSTEM - DEMOLITION

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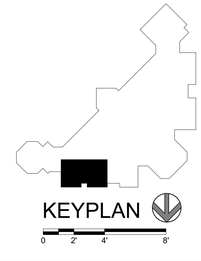
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GENERAL NOTES

1. CONNECT ALL EXIT SIGNS AND EMERGENCY FIXTURES TO EXISTING CIRCUIT SERVING EMERGENCY EGRESS CIRCUIT PREVIOUSLY SERVING THIS SPACE.
2. CONNECT EXTERIOR FIXTURE TO EXISTING CIRCUIT LC-1-11.



1 / E201 **FIRST FLOOR PLAN - LIGHTING - NEW WORK**
Scale : 1/4" = 1'-0"



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FIRST FLOOR PLAN - LIGHTING - NEW WORK

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GENERAL NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION
2. COORDINATE LOCATION AND MOUNTING HEIGHT OF OUTLETS WITH ARCHITECTURAL AND DENTAL DRAWINGS AND DETAILS

DRAWING NOTES

1. PROVIDE HOSPITAL GRADE QUADRUPLEX RECEPTACLE TO SUIT DENTAL CHAIR AS REQUIRED. REFER TO DETAIL.
2. MAKE ALL CONNECTIONS TO DENTAL LIGHT TRACK AS REQUIRED.
3. PROVIDE HOSPITAL-GRADE RECEPTACLE MOUNTED TO SUIT X-RAY MACHINE AS REQUIRED.
4. MAKE ALL CONNECTIONS TO DENTAL SYSTEMS FURNITURE AS REQUIRED. PROVIDE 2" CONDUIT TO SERVE TELECOMMUNICATIONS WIRING BY OWNER IN ADDITION TO POWER WIRING INDICATED.
5. MAKE ALL CONNECTIONS TO ATC PANEL AS REQUIRED.
6. MAKE ALL CONNECTIONS TO ACCESS CONTROL SYSTEM AS REQUIRED.
7. MAKE ALL CONNECTIONS TO PANORAMIC X-RAY MACHINE AS REQUIRED.
8. MOUNT TO SUIT COMPUTER AND MONITOR ARM.
9. MOUNT TO SUIT TELEVISION. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION.
10. MAKE ALL CONNECTIONS TO DENTAL SYSTEMS FURNITURE INCLUDING X-RAY ARM AS REQUIRED. PROVIDE 1" CONDUIT TO SERVE TELECOMMUNICATIONS WIRING BY OWNER IN ADDITION TO POWER WIRING INDICATED.
11. PROVIDE 2" CONDUIT UNDER FLOOR TO ADJACENT DENTAL CONSOLE.
12. PROVIDE ROUGH-IN TO SERVE X-RAY REMOTE CONTROL AS REQUIRED, WITH 1" CONDUIT TO X-RAY UNIT.
13. PROVIDE 2" CONDUIT UNDER FLOOR TO ADJACENT DENTAL CHAIR.
14. PROVIDE 2 GANG BACKBOX WITH 1" CONDUIT TO ACCESSIBLE CEILING 5'-0" AFF TO CENTERLINE TO SERVE MECHANICAL REMOTE SHUTOFF PANEL. PROVIDE (3) SETS OF 18/4 LOW VOLTAGE WIRE TO DENTAL MECH FOR VACUUM, COMPRESSOR, AND WATER VALVE CONTROL.
15. MOUNT TO SUIT REMOTE WATER CONTROL VALVE AS REQUIRED.
16. MAKE ALL CONNECTIONS TO FLUSH VALVE/SENSOR VIA TRANSFORMER INCLUDED WITH UNIT AS REQUIRED BY MANUFACTURER.
17. MAKE ALL CONNECTIONS TO SINK VALVE/SENSOR VIA TRANSFORMER INCLUDED WITH UNIT AS REQUIRED BY MANUFACTURER.
18. MOUNT 4'-8" TO CENTERLINE OF JUNCTION BOX TO SERVE CABINET MOUNTED STERILIZER.

1 E301 **FIRST FLOOR PLAN - POWER AND SPECIAL SYSTEMS - NEW WORK**
Scale : 1/4" = 1'-0"

KEYPLAN
0 2' 4' 8'

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FIRST FLOOR PLAN - POWER AND SPECIAL SYSTEMS - NEW WORK

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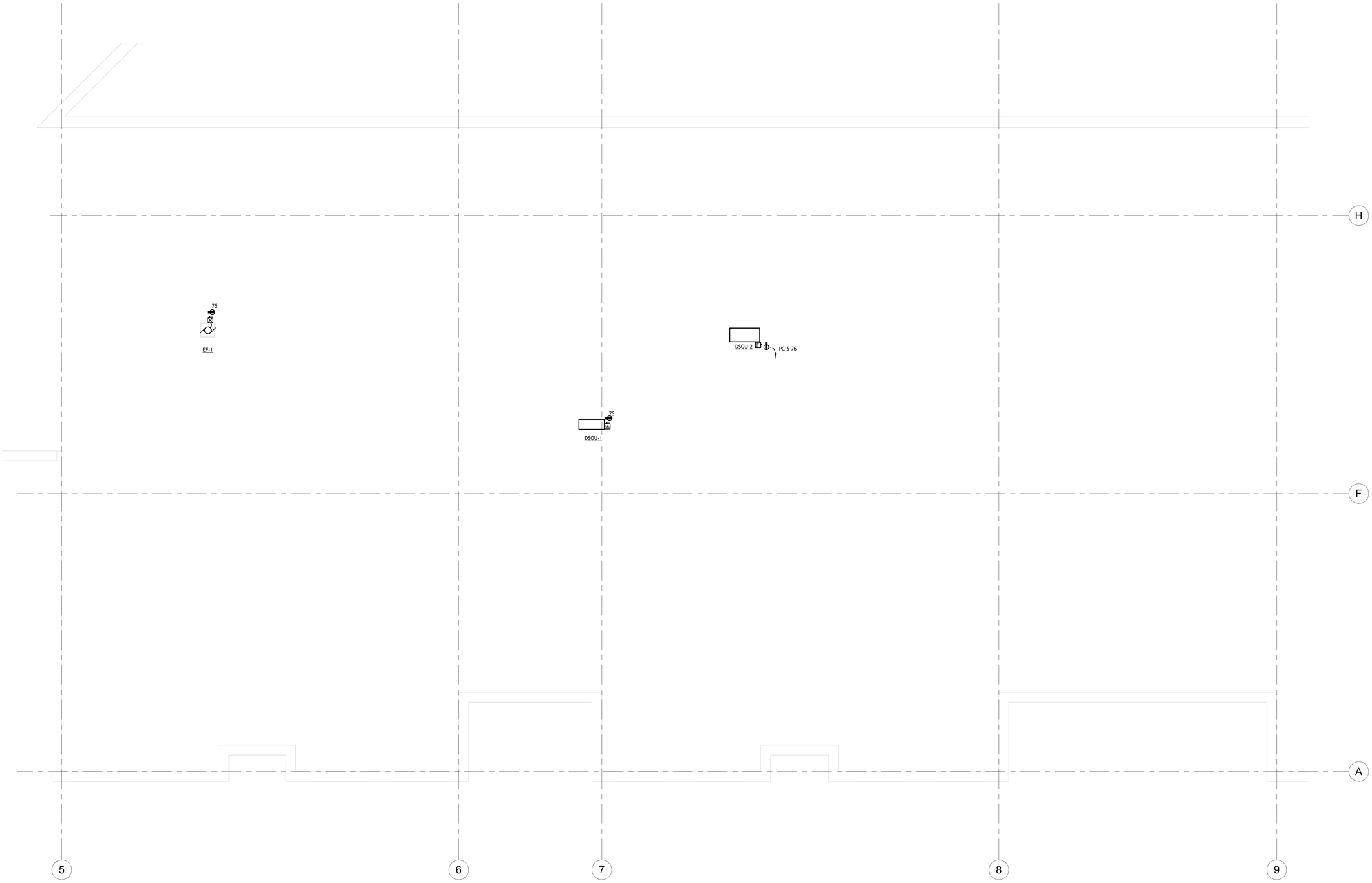
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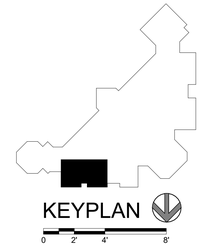
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1 / E302 **ROOF PLAN - ELECTRICAL**
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ROOF PLAN - ELECTRICAL

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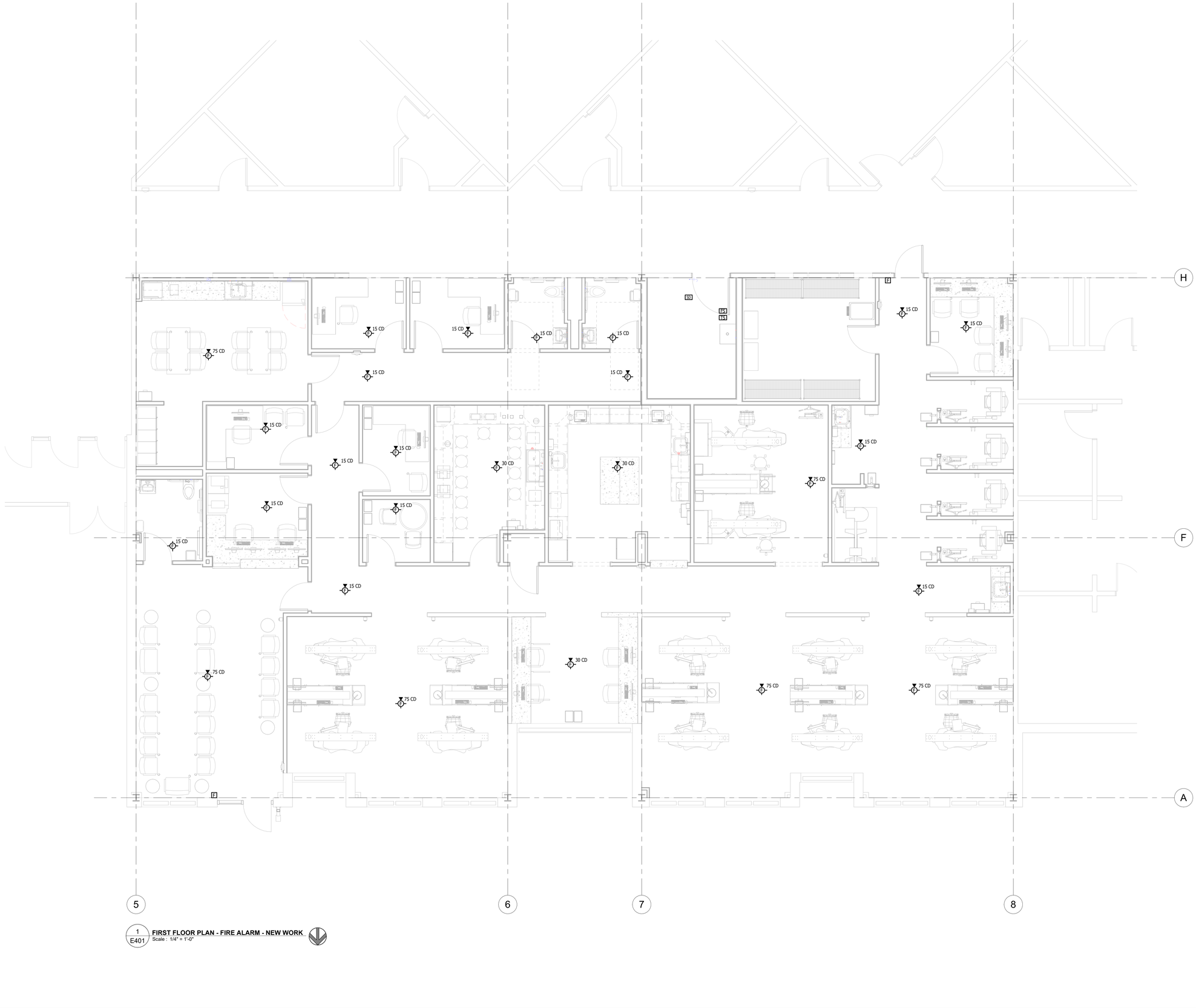
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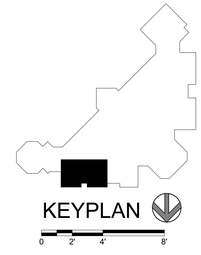
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1 E401 **FIRST FLOOR PLAN - FIRE ALARM - NEW WORK**
Scale : 1/4" = 1'-0"



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FIRST FLOOR PLAN - FIRE ALARM - NEW WORK

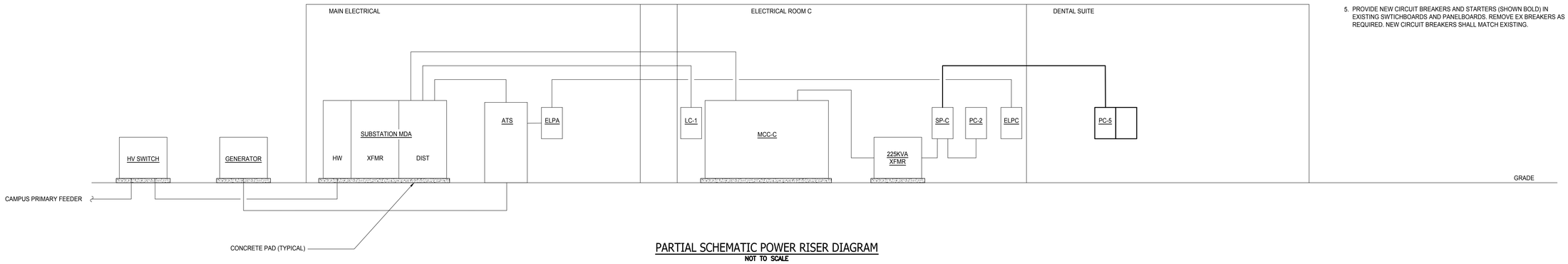
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PARTIAL SCHEMATIC POWER RISER DIAGRAM

NOT TO SCALE

GENERAL NOTES:

1. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED) WITHIN 5'-0 OF EQUIPMENT TO ACCOMMODATE LUG SIZES.
3. PROVIDE TRANSFORMER PRIMARY DISCONNECTS WHERE INDICATED, SIZED TO MATCHED (OR EXCEED) THE RATING OF THE PRIMARY CIRCUIT BREAKER INDICATED ON THE DRY TYPE TRANSFORMER SCHEDULE.
4. TRANSFORMER SECONDARY ECB'S SHALL BE 42KAIC UON.
5. PROVIDE NEW CIRCUIT BREAKERS AND STARTERS (SHOWN BOLD) IN EXISTING SWTICHBOARDS AND PANELBOARDS. REMOVE EX BREAKERS AS REQUIRED. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING.

EX DISTRIBUTION PANEL SP-C

MOUNTING: SURFACE | A.I.C. RATING: 22,000 | LOCATION: ELEC ROOM C
VOLTAGE: 480/277,3PH,4W | 600 AMPERE MAIN CIRCUIT BREAKER | 600 AMPERE MAIN

CKT NO	SERVES	CIRCUIT BREAKER P	FRAME	TRIP	WIRING SETS	NO	SIZE	GND	C	REMARKS	CONN KVA
1	DIMMER PANEL DP1	3	175	175							
2	DIMMER PANEL DP2	3	175	175							
3	PC-1	3	225	200							
4	PC-2	3	225	200							
5	PC-3	3	225	200							
6	PC-4	3	225	200							
7	PC-5	3	**225**	**200**							
8	PC-6	3	100	100							

TOTAL CONNECTED LOAD 0.0 KVA

EX DISTRIBUTION PANEL SP-C

WESTINGHOUSE POW-R-LINE PRL4

MOUNTING: SURFACE | A.I.C. RATING: 22,000 | LOCATION: ELEC ROOM C
VOLTAGE: 208/120,3PH,4W | 600 AMPERE MAIN BUS | 600 AMPERE MAIN BREAKER

CKT NO	SERVES	CIRCUIT BREAKER P	FRAME	TRIP	WIRING SETS	NO	SIZE	GND	C	REMARKS	CONN KVA
1	DIMMER PANEL DP-2	3	100	50							
2	PC-6	3	100	100							
3	PC-5	**3**	**225**	**200**	1	4	3/0	6	2		93.3
4	DIMMER PANEL DP-1	3	175	175							
5	PC-4	3	225	200							
6	PC-3	3	225	200							
7	PC-2	3	225	200							
8	PC-1	3	225	200							

TOTAL CONNECTED LOAD 93.3 KVA

EX PANEL LC-1

MOUNTING: SURFACE
VOLTAGE: 480/277,3PH,4W | LOCATION: ELEC ROOM C
225 AMPERE BUS | 225 A MLO | 100% RATED NEUTRAL BUS | 10,000 A.I.C.

CONN KVA	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CONN KVA
	1	LIGHTING	1	20					2	LIGHTING	1	20					
	3	BAD BREAKER	1	20					4	LIGHTING	1	20					
	5	LIGHTING	1	20					6	LIGHTING	1	20					
	7	LIGHTING	1	20					8	LIGHTING	1	20					
	9	LIGHTING	1	20					10	LIGHTING	1	20					
	11	LIGHTING	1	20					12	EXT TOWER LTS & SIGN	1	20					
	13	LIGHTING	1	20					14	SPARE	1	20					
	15	SPARE	1	20					16	SPARE	1	20					
	17	SPARE	1	20					18	SPARE	1	20					
	19	SPARE	1	20					20	SPARE	1	20					
	21	SPARE	1	20					22	SPARE	1	20					
	23	SPACE	1						24	SPACE	1						
	25	SPACE	1						26	SPACE	1						
	27	SPACE	1						28	SPACE	1						
	29	SPACE	1						30	SPACE	1						

TOTAL CONNECTED LOAD 0.0 KVA | KVA PER PHASE: A 0.0 B 0.0 C 0.0

EX PANEL PC-2

WESTINGHOUSE PRL2
MOUNTING: SURFACE
VOLTAGE: 208/120,3PH,4W | LOCATION: ELEC ROOM C
225 AMPERE BUS | 225 A MLO | 100% RATED NEUTRAL BUS | 10,000 A.I.C.

CONN KVA	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CONN KVA
	1	*EX RECEPTACLE*	1	20					2	EX RECEPTACLE	1	20					
	3	*EX RECEPTACLE*	1	20					4	*EX RECEPTACLE*	1	20					
	5	*EX RECEPTACLE*	1	20					6	*EX RECEPTACLE*	1	20					
	7	*EX RECEPTACLE*	1	20					8	*EX RECEPTACLE*	1	20					
	9	*EX RECEPTACLE*	1	20					10	*EX RECEPTACLE*	1	20					
	11	*EX RECEPTACLE*	1	20					12	*EX RECEPTACLE*	1	20					
	13	*EX RECEPTACLE*	1	20					14	*EX RECEPTACLE*	1	20					
	15	*EX RECEPTACLE*	1	20					16	*EX RECEPTACLE*	1	20					
	17	*EX RECEPTACLE*	1	20					18	*EX RECEPTACLE*	1	20					
	19	*EX RECEPTACLE*	1	20					20	*EX RECEPTACLE*	1	20					
	21	EX KITCHENETTE PRINTER	1	20					22	EX RECEPTACLE, EXT RECP	1	20					
	23	EX KITCHENETTE PRINTER	1	20					24	EX RECEPTACLE	1	20					
	25	EX RECEPTACLE	1	20					26	EX RECEPTACLE	1	20					
	27	EX RECEPTACLE	1	20					28	EX RECEPTACLE	1	20					
	29	SPARE	1	20					30	EX RECEPTACLE	1	20					
	31	EX RECEPTACLE	1	20					32	EX RECEPTACLE	1	20					
	33	EX RECEPTACLE	1	20					34	EX REFRIGERATOR	1	20 GFI					
	35	SPARE	1	20					36	EX REFRIGERATOR	1	20 GFI					
	37	SPARE	1	20					38	SPARE	1	20					
	39	SPARE	1	20					40	SPARE	1	20					
	41	SPARE	1	20					42	SPARE	1	20					

TOTAL CONNECTED LOAD 0.0 KVA | KVA PER PHASE: A 0 B 0 C 0

EX PANEL PC-2 (MODIFIED)

MOUNTING: SURFACE
VOLTAGE: 208/120,3PH,4W | LOCATION: ELEC ROOM C
225 AMPERE BUS | 200 A MLO | 100% RATED NEUTRAL BUS | 10,000 A.I.C.

CONN KVA	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CONN KVA
	1	SPARE	1	20					2	EX EXT RECEPTACLE	1	20					
	3	SPARE	1	20					4	SPARE	1	20					
	5	SPARE	1	20					6	SPARE	1	20					
	7	SPARE	1	20					8	SPARE	1	20					
	9	SPARE	1	20					10	SPARE	1	20					
	11	SPARE	1	20					12	SPARE	1	20					
	13	SPARE	1	20					14	SPARE	1	20					
	15	SPARE	1	20					16	SPARE	1	20					
	17	SPARE	1	20					18	SPARE	1	20					
	19	SPARE	1	20					20	SPARE	1	20					
	21	SPARE	1	20					22	EX EXT RECEPTACLE	1	20					
	23	SPARE	1	20					24	EX EXT RECEPTACLE	1	20					
	25	EX RECEPTACLE	1	20					26	EX RECEPTACLE	1	20					
	27	EX RECEPTACLE	1	20					28	EX RECEPTACLE	1	20					
	29	SPARE	1	20					30	EX RECEPTACLE	1	20					
	31	EX RECEPTACLE	1	20					32	EX RECEPTACLE	1	20					
	33	EX RECEPTACLE	1	20					34	EX REFRIGERATOR	1	20 GFI					
	35	SPARE	1	20					36	EX REFRIGERATOR	1	20 GFI					
	37	SPARE	1	20					38	SPARE	1	20					
	39	SPARE	1	20					40	SPARE	1	20					
	41	SPARE	1	20					42	SPARE	1	20					

TOTAL CONNECTED LOAD 0.0 KVA | KVA PER PHASE: A 0 B 0 C 0

PANEL PC-5 (SECTION I)

MOUNTING: SURFACE
VOLTAGE: 208/120,3PH,4W | LOCATION: DENTAL MECH
225 AMPERE BUS | 225 A MCB | 100% RATED NEUTRAL BUS | 10,000 A.I.C.

CONN KVA	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CONN KVA
1.2	1	RECEPT-WAITING	1	20	2	12	12	3/4	2	TRAP PRIMING STATION	1	20	2	12	12	3/4	1.0
0.8	3	RECEPT-TV	1	20	2	12	12	3/4	4	DSOU-1/DSIU-1	2	30	2	10	10	1	1.2
0.8	5	RECEPT-RECEPTION	1	20	2	12	12	3/4	6	-	-	-	-	-	-	-	1.2
0.8	7	RECEPT-RECEPTION	1	20	2	12	12	3/4	8	DENTAL AIR COMPRESSOR	2	35	2	8	10	1	1.9
1.0	9	RECEPT-PRINTER	1	20	2	12	12	3/4	10	-	-	-	-	-	-	-	1.9
0.2	11	RECEPT-BATHROOM	1	20	2	12	12	3/4	12	DENTAL VACUUM PUMP	2	40	2	8	10	1	2.9
0.8	13	RECEPT-BREAKROOM	1	20	2	12	12	3/4	14	-	-	-	-	-	-	-	2.9
1.5	15	RECEPT-BREAKROOM	1	20	2	12	12	3/4	16	DSOU-2/DSIU-2	2	25	2	10	10	1	1.2
1.5	17	RECEPT-BREAKROOM	1	20	2	12	12	3/4	18	-	-	-	-	-	-	-	1.2
1.5	19	RECEPT-BREAKROOM	1	20	2	12	12	3/4	20	AHU-1, AHU-2	1	20	2	12	12	3/4	1.2
1.0	21	RECEPT-REFRIGERATOR	1	20 GFI	2	12	12	3/4	22	RECEPT-OPERATORY	1	20	2	12	12	3/4	0.8
1.0	23	RECEPT-OFFICE	1	20	2	12	12	3/4	24	RECEPT-SINK	1	20	2	12	12	3/4	0.4
1.0	25	RECEPT-OFFICE	1	20	2	12	12	3/4	26	X-RAY	1	20	2	12	12	3/4	0.5
0.2	27	RECEPT-BATHROOM	1	20	2	12	12	3/4	28	X-RAY	1	20	2	12	12	3/4	0.5
0.2	29	RECEPT-BATHROOM	1	20	2	12	12	3/4	30	X-RAY	1	20	2	12	12	3/4	0.5
1.2	31	RECEPT-MECH	1	20	2	12	12	3/4	32	X-RAY	1	20	2	12	12	3/4	0.5
1.0	33	RECEPT-OFFICE	1	20	2	12	12	3/4	34	X-RAY COMPUTERS	1	20	2	12	12	3/4	0.4
1.0	35	RECEPT-OFFICE	1	20	2	12	12	3/4	36	X-RAY COMPUTERS	1	20	2	12	12	3/4	0.4
1.0	37	RECEPT-OFFICE	1	20	2	12	12	3/4	38	X-RAY COMPUTERS	1	20	2	12	12	3/4	0.4
0.8	39	RECEPT-CORRIDOR	1	20	2	12	12	3/4	40	RECEPT-COMPUTER LAB	1	20	2	12	12	3/4	0.8
0.8	41	RECEPT-OPERATORY	1	20	2	12	12	3/4	42	RECEPT-COMPUTER LAB	1	20	2	12	12	3/4	0.8
0.8	43	RECEPT-OPERATORY	1	20	2	12	12	3/4	44	RECEPT-DOCTOR	1	20	2	12	12	3/4	0.8
0.8	45	RECEPT-INSTRUCTIONAL	1	20	2	12	12	3/4	46	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
0.8	47	RECEPT-OPERATORY	1	20	2	12	12	3/4	48	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
1.2	49	LAB-STATIM	1	20	2	12	12	3/4	50	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
1.0	51	LAB-PRINTER	1	20	2	12	12	3/4	52	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
1.5	53	LAB-LEXA STERILIZER	1	20	2	12	12	3/4	54	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
1.5	55	LAB-LEXA STERILIZER	1	20	2	12	12	3/4	56	OPERATORY CONSOLE	1	20 GFI	2	12	12	3/4	0.4
1.5	57	LAB-LEXA STERILIZER	1	20	2	12	12	3/4	58	OPERATORY CONSOLE	1	20 GFI	2	12	12	3/4	0.4
1.0	59	LAB-PRINTER	1	20	2	12	12	3/4	60	OPERATORY CONSOLE	1	20 GFI	2	12	12	3/4	0.4

CONNECTED LOAD (SECTION I) 60.0 KVA | KVA PER PHASE: A 21.8 B 19.2 C 19.0

PANEL PC-5 (SECTION II)

MOUNTING: SURFACE
VOLTAGE: 208/120,3PH,4W | LOCATION: DENTAL MECH
225 AMPERE BUS | 225 A MLO | 100% RATED NEUTRAL BUS | 10,000 A.I.C.

CONN KVA	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CKT	DESCRIPTION	BREAKER P	AMPS	NO	CIRCUIT WIRING SIZE	GND	C	CONN KVA
1.2	61	LAB-STATIM	1	20	2	12	12	3/4	62	RECEPT-OPERATORY	1	20	2	12	12	3/4	0.8
0.8	63	LAB-FORMING MACH	1	20	2	12	12	3/4	64	X-RAY-PANORAMIC	1	20	2	12	12	1	0.8
0.8	65	LAB-FORMING MACH	1	20	2	12	12	3/4	66	RECEPT-CHARGING CART	1	20	2	12	12	3/4	1.2
1.0	67	LAB-FRIDGE	1	20 GFI	2	12	12	3/4	68	DENTAL ARM LIGHTS	1	20	2	12	12	3/4	0.6
1.2	69	LAB-LATHE	1	20	2	12	12	3/4	70	EF-1	1	20	2	12	12	3/4	0.4
1.2	71	LAB-LATHE	1	20	2	12	12	3/4	72	DENTAL LAB TV	1	20	2	12	12	3/4	0.4
1.2	73	LAB-TRIMMER	1	20	2	12	12	3/4	74	DENTAL ARM LIGHTS	1	20	2	12	12	3/4	0.6
1.2	75	LAB-TRIMMER	1	20	2	12	12	3/4	76	RECEPT-ROOF	1	20	2	12	12	3/4	0.6
1.2	77	LAB-TRIMMER	1	20	2	12	12	3/4	78	RECEPT-DOCTOR	1	20	2	12	12	3/4	0.8
0.6	79	LAB-RECEPT	1	20	2	12	12	3/4	80	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	0.8
0.4	81	LAB-RECEPT	1	20	2	12	12	3/4	82	ACCESS CONTROL	1	20	2	12	12	3/4	0.2
0.4	83	LAB-RECEPT	1	20	2	12	12	3/4	84	OPERATORY CONSOLE	1	20 GFI	2	12	12	3/4	0.4
0.4	85	LAB-RECEPT	1	20	2	12	12	3/4	86	OPERATORY CONSOLE	1	20 GFI	2	12	12	3/4	0.4
0.6	87	LAB-RECEPT	1	20	2	12	12	3/4	88	OPERATORY CONSOLE	1	20 GFI	2	12	12	3/4	0.4
0.5	89	WATER VALVE	1	20	2	12	12	3/4	90	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
0.8	91	RECEPT-INSTRUCTIONAL	1	20	2	12	12	3/4	92	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
0.2	93	FLUSH VALVE/SINK	1	20	2	12	12	3/4	94	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
0.2	95	FLUSH VALVE/SINK	1	20	2	12	12	3/4	96	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
1.5	97	LAB-LEXA STERILIZER	1	20	2	12	12	3/4	98	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
1.5	99	LAB-LEXA STERILIZER	1	20	2	12	12	3/4	100	DENTAL CHAIRS	1	20 GFI	2	12	12	3/4	1.2
0.4	101	ATC COMPUTER	1	20	2	12	12	3/4	102	DOCTOR COMPUTER	1	20	2	12	12	3/4	0.4
	103	SPARE	1	20					104	SPARE	1	20					
	105	SPARE	1	20					106	SPARE	1	20					
	107	SPARE	1	20					108	SPARE	1	20					
	109	SPARE	1	20					110	SPARE	1	20					
	111	SPARE	1	20					112	SPARE	1	20					
	113	SPARE	1	20					114	SPARE	1	20					
	115	SPD	3	30	4	6	8	1	116	SPARE	1	20					
	117	-	-	-	-	-	-	-	118	SPARE	1	20					
	119	-	-	-	-	-	-	-	120	SPARE	1	20					

CONNECTED LOAD (SECTION II) 33.3 KVA | KVA PER PHASE: A 12.3 B 10.7 C 10.3
TOTAL CONNECTED LOAD 93.3 KVA | KVA PER PHASE: A 34.1 B 29.9 C 29.3

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CIVIL ENGINEER

CONSTRUCTION MANAGER

The professional services of the architect are undertaken and performed in the interest of DELAWARE TECHNICAL COMMUNITY COLLEGE. No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE

21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE
19947

SCHEMATIC POWER RISER DIAGRAMS

ISSUE FOR BID

PLAN NORTH

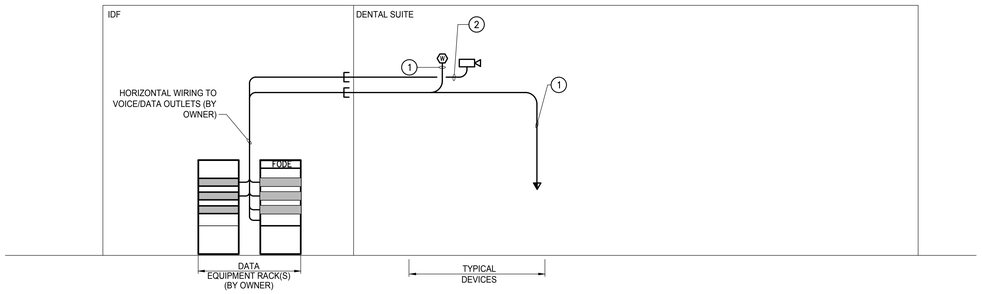
ISSUED FOR

NO.	DATE	DESCRIPTION
1	10/12/2026	Issue for Bid

Date 10/12/2026
Scale AS NOTED
Drawn KML
Checked KML
Approved KML
Project 25040

Sheet **E501**

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1 E502 **SCHEMATIC COMMUNICATIONS SYSTEM RISER DIAGRAM**

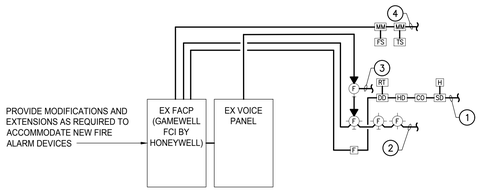
NO SCALE

DRAWING NOTES:
(APPLY TO SCHEMATIC COMMUNICATIONS SYSTEM RISER DIAGRAM)

1. PROVIDE 1" CONDUIT TO MDF/IDF, TERMINATED IN BUSHED END, FOR UP TO (2) CAT 6 CABLES BY OWNER. PROVIDE ROUGH IN AT DROP LOCATION WITH BLANK FACEPLATE.
2. PROVIDE 1" CONDUIT TO MDF/IDF, TERMINATED IN BUSHED END, FOR CAT 6 CABLE BY OWNER. PROVIDE ROUGH IN AT DROP LOCATION WITH BLANK FACEPLATE TO SUIT CAMERA LOCATION.

GENERAL NOTES:
(APPLY TO SCHEMATIC COMMUNICATIONS SYSTEM RISER DIAGRAM)

1. REFER TO FLOOR PLANS FOR EXACT DEVICE COUNT AND LOCATIONS.
2. ROUTE CABLING IN SURFACE RACEWAY IN FINISHED AREAS WHERE CONDUIT CANNOT BE CONCEALED.
3. TERMINATE WAP, VIDEO SURVEILLANCE CAMERAS, ATC EQUIPMENT, & DATA OUTLETS ON DEDICATED PATCH PANELS FOR EACH SYSTEM TO MATCH EXISTING SYSTEM CONFIGURATION.
4. PROVIDE COLOR CODING AND LABELING TO MATCH EXISTING.



2 E502 **PARTIAL SCHEMATIC FIRE SYSTEM RISER DIAGRAM**

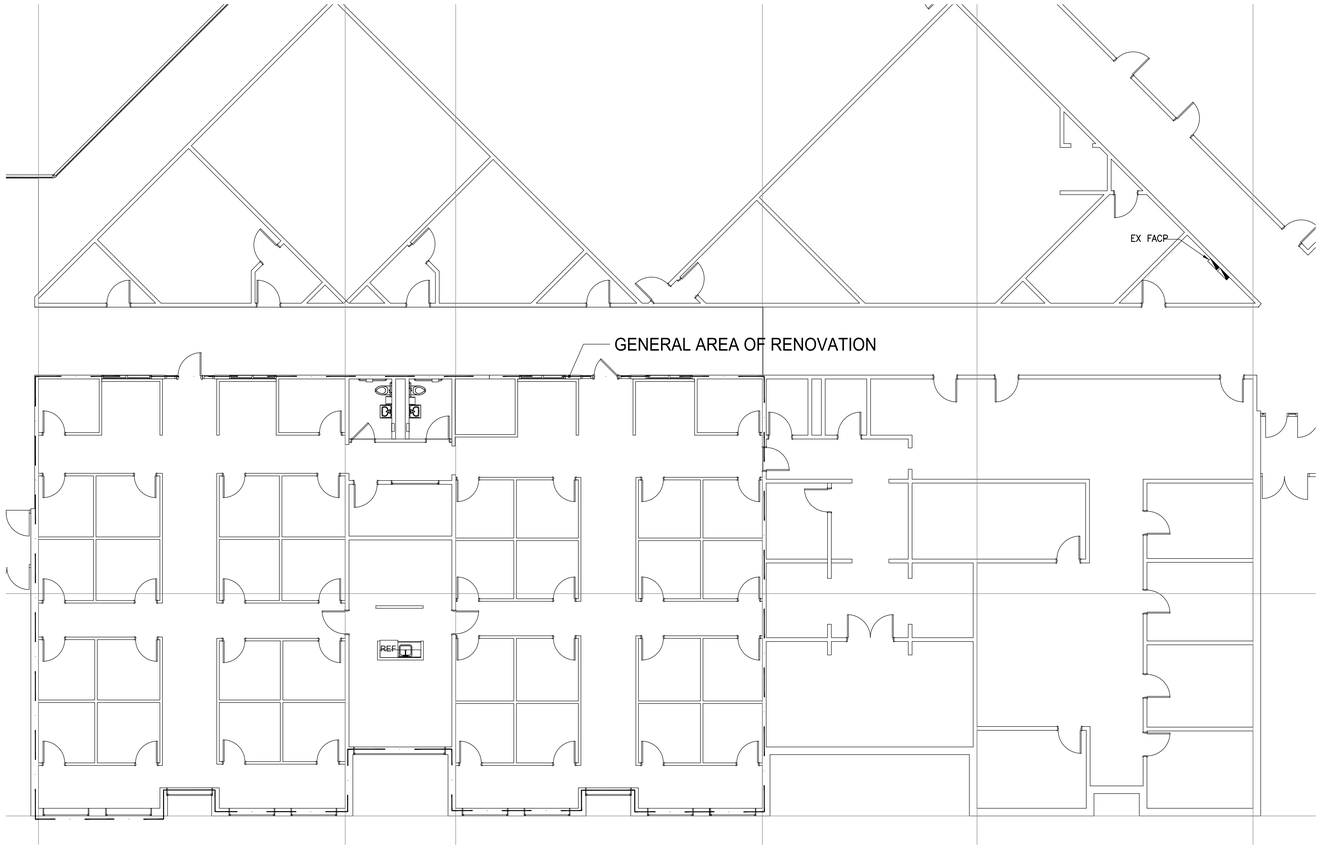
NO SCALE

DRAWING NOTES:
(APPLY TO FIRE ALARM SYSTEM RISER DIAGRAM)

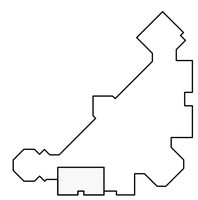
1. TO OTHER ALARM INITIATING DEVICES IN THIS ZONE.
2. TO OTHER ALARM NOTIFICATION DEVICES IN THIS ZONE.
3. TO OTHER SPEAKER CIRCUITS IN THIS ZONE.
4. TO OTHER SPRINKLER SYSTEM DEVICES IN THIS ZONE.

GENERAL NOTES:
(APPLY TO SCHEMATIC FIRE ALARM SYSTEM RISER DIAGRAM)

1. PROVIDE WIRING PER MANUFACTURER'S RECOMMENDATIONS IN CONDUIT.
2. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.



1 ED202 **FIRST FLOOR PLAN - FIRE ALARM CONTROL PANEL LOCATION**
Scale : 1/8" = 1'-0"



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PROJECT
DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS
21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER
DELAWARE TECHNICAL COMMUNITY COLLEGE
21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

SCHEMATIC FIRE ALARM RISER DIAGRAM

ISSUE FOR BID

PLAN NORTH
TRUE NORTH

ISSUED FOR

NO.	DATE	DESCRIPTION
	10/10/2025	Issue for Bid

Date	10/12/2026
Scale	AS NOTED
Drawn	KML
Checked	KML
Approved	KML
Project	25040
Sheet	**E502**

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT NAME	LOAD			SERVICE		SOURCE CIRCUIT	STARTER SIZE	DISCONNECT (MOUNT AT UNIT UON)				
	KW	HP	AMPS	VOLTS	PH			POLE	AMPS	FUSE (VERIFY W/ NAMEPLATE)	NEMA ENCLOSURE	NOTES
DSOU-1			11	208	1	PC-5-4		2	30	30	4X	1
DSIU-1			1	208	1			3	30	15	1	
DSOU-2			19	208	1	PC-5-16		2	30	25	4X	1
DSIU-2			1	208	1			3	30	15	1	
EF-1		1/3	7.2	120	1	PC-5-70	0	3			4X	2
DENTAL AIR COMPRESSOR DAC-1			16.5	240	1	PC-5-8		2	30	30	1	4
DENTAL VACCUUM PUMP DVP-1			24	240	1	PC-5-12		2	60	35	1	4
TRAP PRIMING STATION TPS-1			5	120	1	PC-5-1					1	5

MECHANICAL SCHEDULE NOTES:
1. PROVIDE CONNECTION AT OUTDOOR UNIT AND EXTEND CONNECTION TO INDOOR UNIT AS RECOMMENDED BY MFGR.
2. PROVIDE COMBINATION STARTER/DISCONNECT
3. PROVIDE MANUAL MOTOR STARTER WITH HOA SWITCH.
4. INSTALL 208V-240V SINGLE PHASE BUCK-BOOST TRANSFORMER FURNISHED WITH EQUIPMENT.
5. PROVIDE TOGGLE DISCONNECT SWITCH ADJACENT TO TPS. FIELD COORDINATE EXACT LOCATION.

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WO# 26037 (410) 822-8688

EDCI ENGINEERS
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WILMINGTON, DE 19806
(302) 252-9200

CIVIL ENGINEER

CONSTRUCTION MANAGER

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PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

21225 COLLEGE DRIVE
GEORGETOWN, DE 19947

OWNER

DELAWARE TECHNICAL COMMUNITY COLLEGE

21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

SCHEDULES ELECTRICAL

ISSUE FOR BID

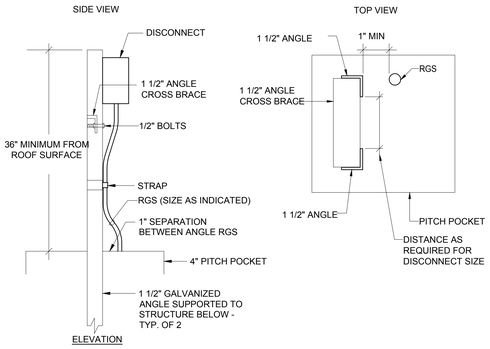
PLAN NORTH

ISSUED FOR

NO.	DATE	DESCRIPTION
0	10/15/2026	Issue for Bid

Date	10/12/2026
Scale	AS NOTED
Drawn	KML
Checked	KML
Approved	KML
Project	25040
Sheet	E601

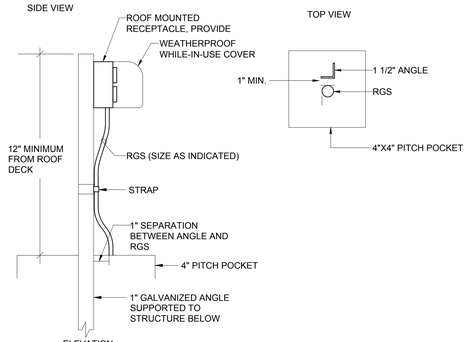
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NOTE:
DISCONNECT SHOULD BE LOCATED 8"-12" FROM EQUIPMENT. DO NOT LOCATE IN FRONT OF ACCESS DOORS/PANELS.

1 TYPICAL DISCONNECT MOUNTING ON ROOF

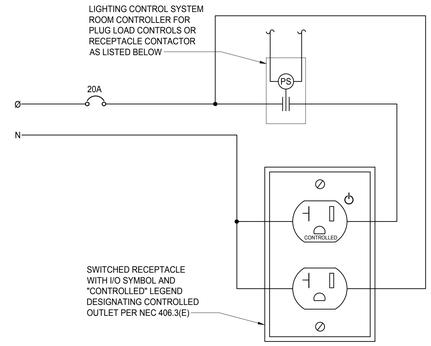
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NOTE:
RECEPTACLE SHOULD BE LOCATED 8"-12" FROM EQUIPMENT. DO NOT LOCATE IN FRONT OF ACCESS DOORS/PANELS.

2 TYPICAL RECEPTACLE MOUNTING ON ROOF

NO SCALE



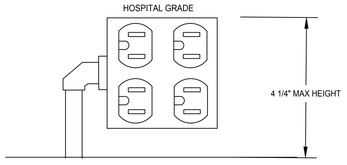
RECEPTACLE CONTACTOR SCHEDULE

NUMBER	ROOMS/AREA SERVED	VOLTAGE	# POLES	COIL VOLTAGE	CONTROL CKT	REMARKS
RC4	RECEPTION/COMPUTER LAB	120	4	120	PER CONTROL ZONE	

PLAN SYMBOL:

3 TYPICAL SWITCHED RECEPTACLE WIRING DIAGRAM

NO SCALE



PLAN SYMBOL:

4 TYPICAL DENTAL CHAIR OUTLET STUB-UP

NO SCALE

5 NOT USED

NO SCALE

6 NOT USED

NO SCALE

7 NOT USED

NO SCALE

8 NOT USED

NO SCALE

9 NOT USED

NO SCALE

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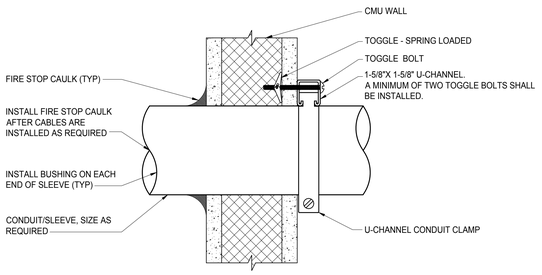
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ISSUED FOR

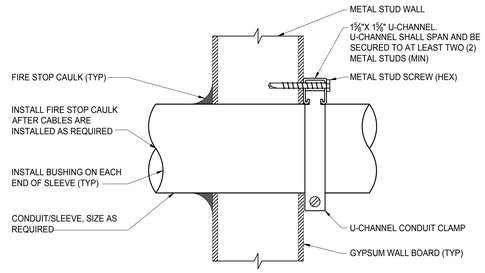
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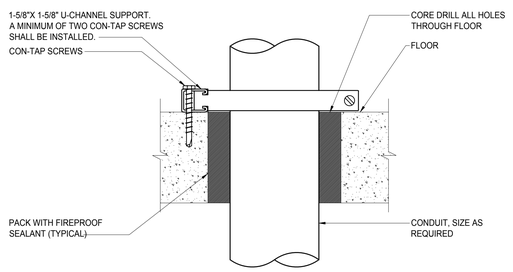
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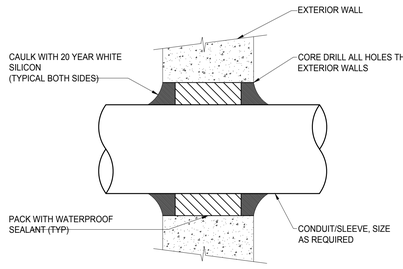
1 TYPICAL CONDUIT SLEEVE THROUGH INTERIOR CMU WALL — NO SCALE



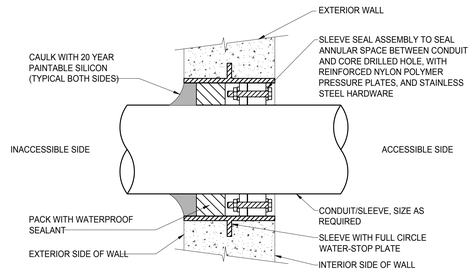
2 TYPICAL CONDUIT SLEEVE THROUGH INTERIOR STUD WALL — NO SCALE



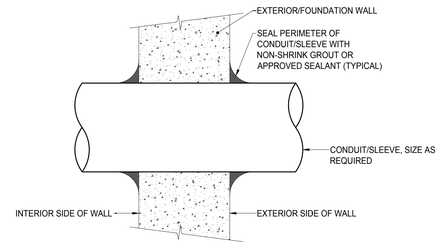
3 TYPICAL CONDUIT THROUGH FLOOR — NO SCALE



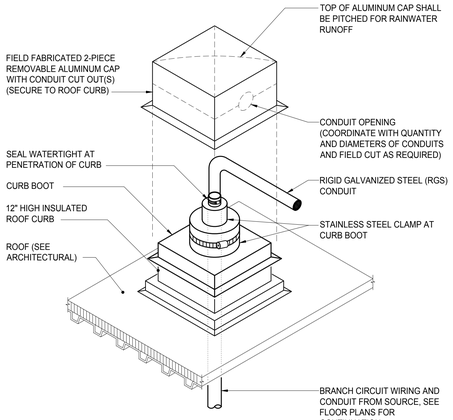
4 TYPICAL CONDUIT THROUGH EXTERIOR WALL - ABOVE GRADE — NO SCALE



5 TYPICAL CONDUIT THROUGH EXTERIOR WALL - BELOW GRADE ON ONE SIDE, ACCESSIBLE SPACE ON OTHER SIDE, E.G. CRAWLSPACE/BASEMENT — NO SCALE



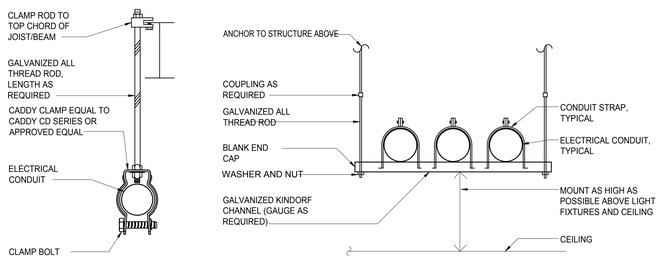
6 TYPICAL CONDUIT THROUGH EXTERIOR WALL - BELOW GRADE ON BOTH SIDES — NO SCALE



NOTES:

1. PROVIDE ADDITIONAL BOOTS FOR MULTIPLE CONDUIT PENETRATIONS THROUGH ROOF.
2. PROVIDE SLOPED CURBS TO MATCH ROOF PITCH WHERE REQUIRED.

7 TYPICAL CONDUIT THROUGH ROOF DECK — NO SCALE

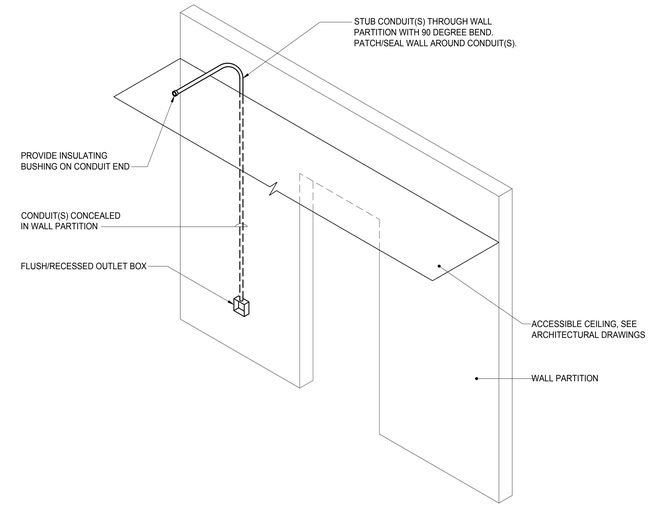


INDIVIDUAL MULTIPLE

NOTES:

1. ALL ELECTRICAL HANGERS AND SUPPORT COMPONENTS IN DRY INTERIOR LOCATIONS SHALL HAVE A NON-CORROSIVE METAL FINISH, GALV-KROM OR EQUAL.
2. ALL ELECTRICAL HANGERS AND SUPPORT COMPONENTS IN DAMP/WET LOCATIONS SHALL BE STAINLESS STEEL .
3. ALL EXPOSED CONDUIT HANGERS AND SUPPORTS SHALL BE PAINTED WITH RUST INHIBITING PAINT AS SPECIFIED, UNLESS OTHERWISE NOTED.

8 TYPICAL CONDUIT SUPPORT — NO SCALE



9 CONDUIT STUB ABOVE ACCESSIBLE CEILING — NO SCALE

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19947

DETAILS ELECTRICAL

ISSUE FOR BID

PLAN NORTH

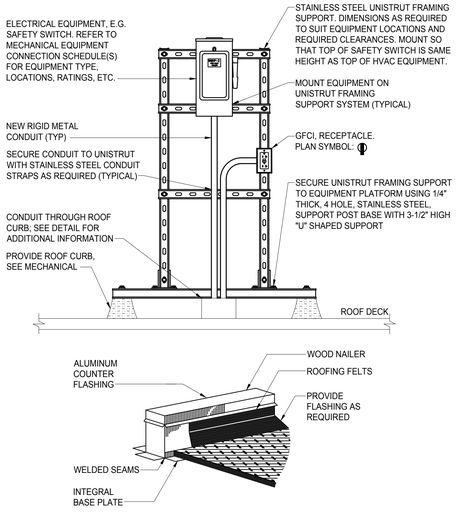
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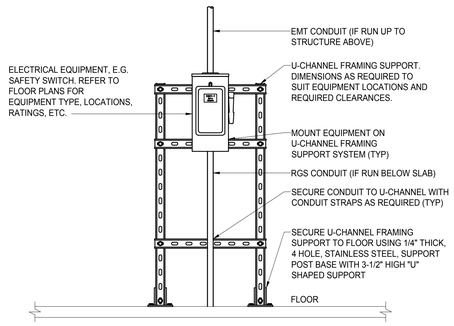
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Project 25040

Sheet **E702**

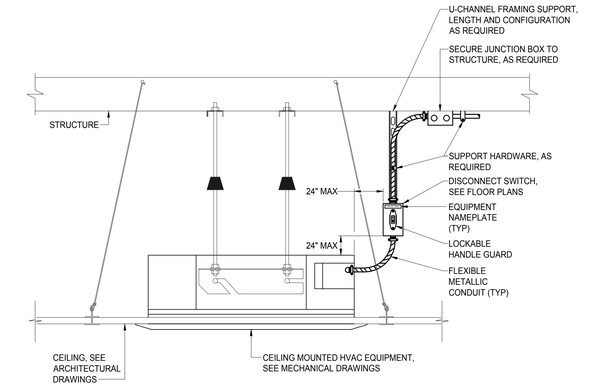
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1 DETAIL - ROOF MOUNTED SAFETY SWITCH ON DOUBLE EXTENDED RAIL/ROOF CURB — NO SCALE



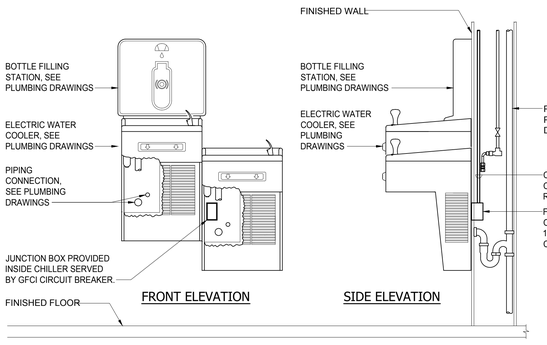
2 FREE STANDING U-CHANNEL SUPPORT FOR ELECTRICAL EQIUPMENT — NO SCALE



NOTES:

1. COORDINATE LOCATION WITH DIVISION 23, SEE MECHANICAL DRAWINGS.
2. REFRIGERATION PIPING NOT SHOWN, SEE MECHANICAL DRAWINGS.
3. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

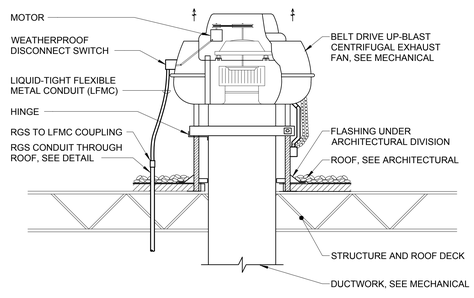
3 HVAC EQUIPMENT CONNECTION - CEILING MOUNTED EQUIPMENT — NO SCALE



NOTES:

1. MOUNTING HEIGHT TO COMPLY WITH FEDERAL, STATE, AND LOCAL CODES.
2. MANUFACTURER TO PROVIDE POWER CORD WITH PLUG.

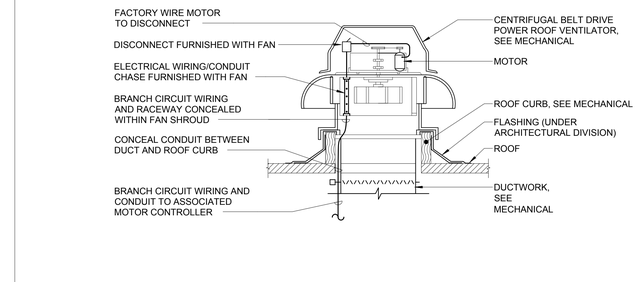
4 PLUMBING EQUIPMENT ROUGH-IN/CONNECTION - ELECTRIC WATER COOLER — NO SCALE



NOTES :

1. THIS DETAIL APPLIES TO ROOF MOUNTED EXHAUST FANS FOR GREASE APPLICATIONS (E.G. KITCHEN) AND FANS THAT HINGE OPEN.
2. COORDINATE ELECTRICAL CONNECTION AND CONDUIT INSTALLATION WITH DIVISION 23 CONTRACTOR.
3. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR.

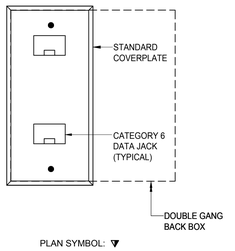
5 ROOF MOUNTED EXHAUST FAN - EXPOSED CONDUIT — NO SCALE



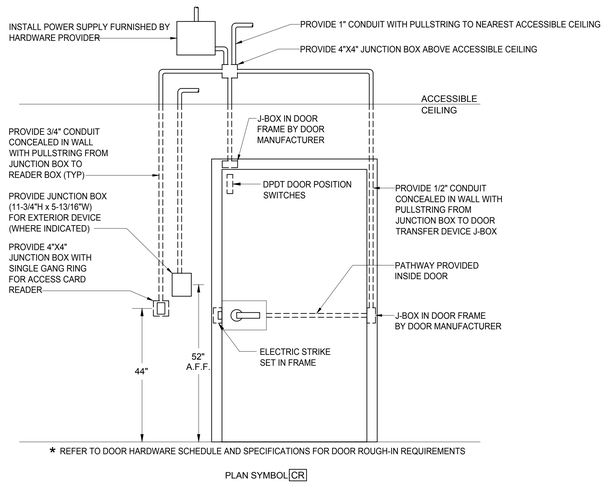
NOTE :

1. THIS DETAIL APPLIES TO ROOF MOUNTED EXHAUST FANS THAT DO NOT HANDLE GREASE OR HINGE OPEN.
2. COORDINATE ELECTRICAL CONNECTION AND CONDUIT INSTALLATION WITH DIVISION 23 CONTRACTOR.

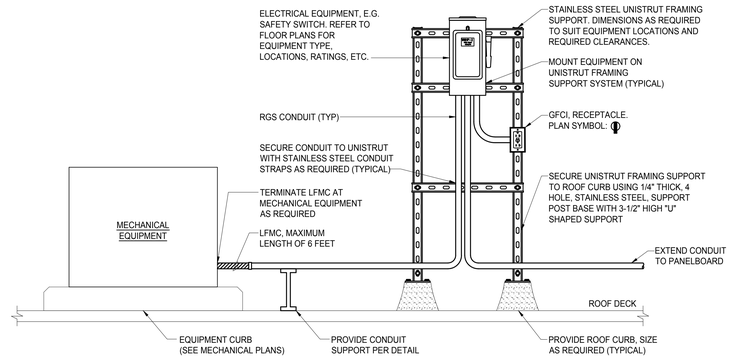
6 ROOF MOUNTED EXHAUST FAN - CONCEALED CONDUIT — NO SCALE



7 TECHNOLOGY OUTLET ROUGH-INS — NO SCALE



8 CARD READER ROUGH-IN FOR ELECTRIC STRIKE HARDWARE — NO SCALE



9 FREE STANDING ELECTRICAL EQUIPMENT - ROOF MOUNTING DETAIL — NO SCALE

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DETAILS ELECTRICAL

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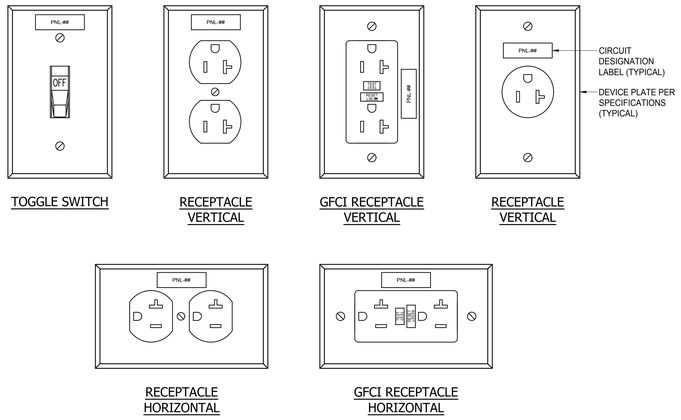
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Project	25040
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1 NOT USED

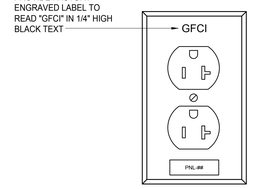
NO SCALE

2 TYPICAL FACEPLATE LABELING - TOGGLE SWITCHES AND RECEPTACLES



NO SCALE

3 CUSTOM ENGRAVED RECEPTACLE FACEPLATES



DUPLEX RECEPTACLE ON GFCI PROTECTED CIRCUIT

NOTES:

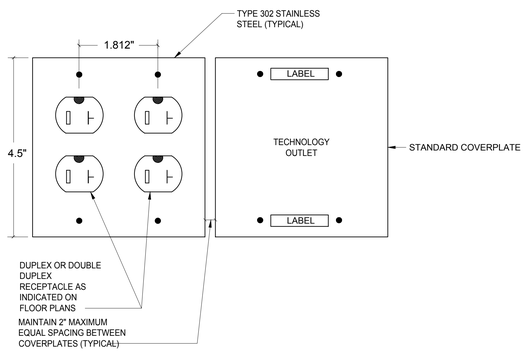
1. PROVIDE FACEPLATES ON ALL RECEPTACLES PROTECTED BY GFCI CIRCUIT BREAKERS, E.G. ELECTRIC WATER COOLERS, AUTOMATIC FAUCETS, ETC.

NO SCALE

4 NOT USED

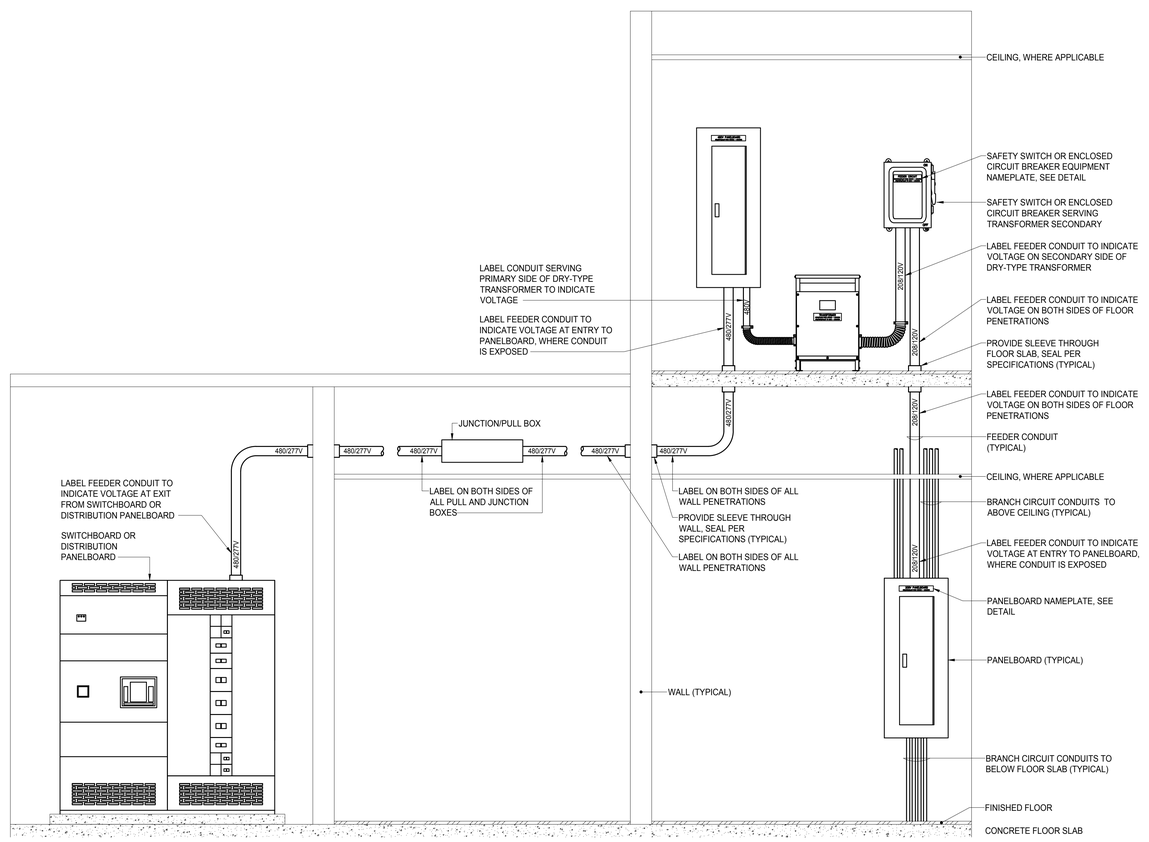
NO SCALE

5 TYPICAL RECEPTACLE/TECHNOLOGY OUTLET INSTALLATION



NO SCALE

6 ELECTRICAL IDENTIFICATION - FEEDER CONDUIT LABELING



NO SCALE

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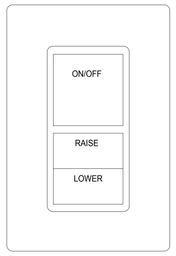
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Approved	KML
Project	25040
Sheet	E704

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1 NOT USED

NO SCALE

2 TYPICAL DIMMER SWITCHES



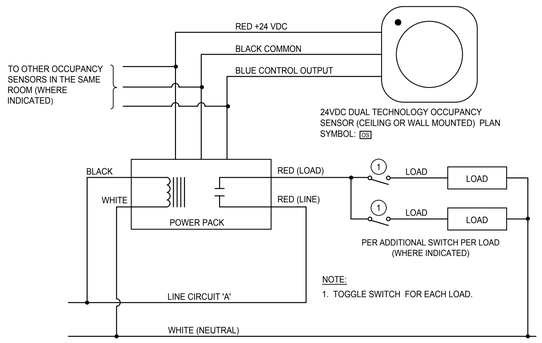
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NO SCALE

3 NOT USED

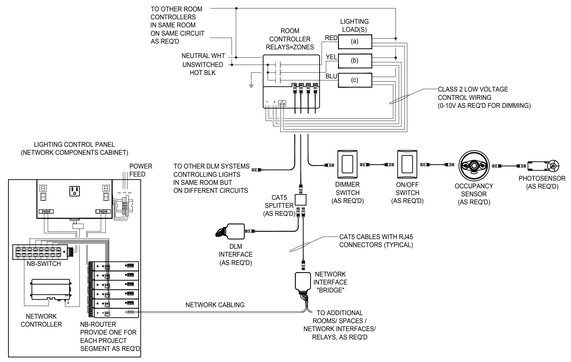
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4 TYPICAL OCCUPANCY SENSOR WIRING - LINE VOLTAGE CONTROLS



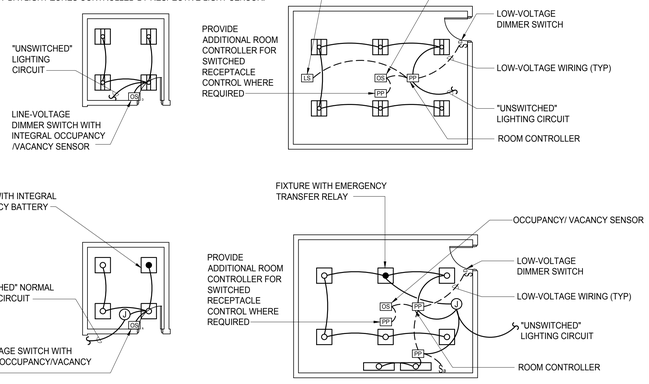
NO SCALE

5 LOW VOLTAGE DIGITAL LIGHTING CONROL SCHEMATIC



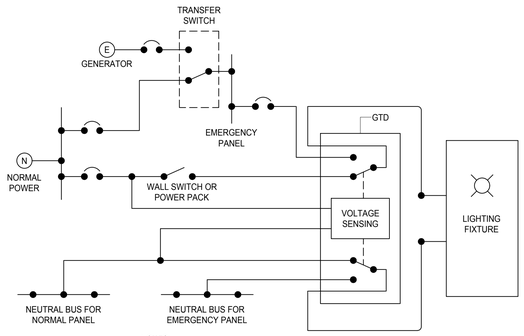
NOTES:

1. SETTINGS TO BE APPLIED TO ROOM CONTROLLER AS INDICATED ON PLANS. REFER TO LIGHTING CONTROL MATRIX FOR ADDITIONAL INFORMATION.
2. PROVIDE NUMBER OF FIXTURES, SWITCHES, OCCUPANCY OR VACANCY SENSORS, EMERGENCY FIXTURES, ETC. IN EACH ROOM AS INDICATED ON THE FLOOR PLANS
3. PROVIDE SEPARATE CONTROL ZONES TO SERVE DAYLIGHT CONTROLLED FIXTURES (SUFFIX D ON FIXTURE TYPE) AS REQUIRED. PROVIDE SEPARATE ZONES FOR PRIMARY AND SECONDARY DAYLIGHT ZONES CONTROLLED BY RESPECTIVE LIGHT SENSOR.



NO SCALE

6 EMERGENCY TRANSFER RELAY DIAGRAM



NOTES:

1. EMERGENCY TRANSFER RELAY SHALL BE BODINE (GTD) GENERATOR TRANSFER DEVICE.
2. WIRING IS TYPICAL FOR "E" SUFFIX.

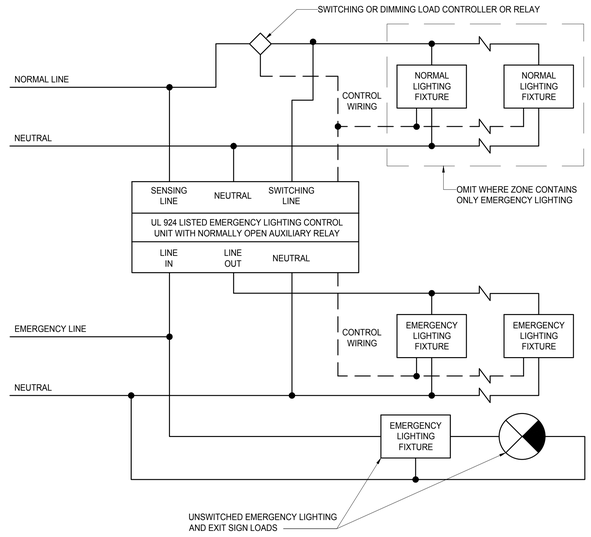
EMERGENCY TRANSFER RELAY DIAGRAM

NO SCALE

7 TYPICAL ROOM LIGHTING CONTROLS

NO SCALE

8 EMERGENCY LIGHTING CONTROL SCHEMATIC



SEQUENCE OF OPERATIONS:

1. DURING NORMAL POWER CONDITIONS, EMERGENCY LIGHTS MUST BE CONTROLLED WITH THE NORMAL LIGHTS.
2. UPON NORMAL POWER LOSS, EMERGENCY LIGHTS MUST SWITCH ON TO FULL BRIGHTNESS REGARDLESS OF LOAD CONTROLLER STATE.

GENERAL NOTES:

1. THIS SCHEMATIC DEPICTS A LISTED EMERGENCY LIGHTING CONTROL DEVICE INTENDED TO BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM. IF ACCEPTABLE TO THE AHJ, A LISTED ALTERNATE DEVICE PROPRIETARY TO THE LIGHTING CONTROL SYSTEM PROVIDING EQUIVALENT FUNCTIONALITY IS ACCEPTABLE.
2. SUBMIT PRODUCT DATA FOR REVIEW WHERE AN ALTERNATE DEVICE IS PROVIDED. INCLUDE LISTINGS AND DETAILS DEMONSTRATING COMPLIANCE WITH THIS SCHEMATIC.
3. CONNECT THE SENSING LINE TO THE NORMAL CIRCUIT SERVING THE NORMAL FIXTURES IN THE SAME CONTROL ZONE OR ROOM. SENSING PANEL FEEDERS OR OTHER CIRCUITS IS NOT ACCEPTABLE.

NO SCALE

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CONSTRUCTION MANAGER

The professional services of the architect are undertaken and performed in the interest of DELAWARE TECHNICAL COMMUNITY COLLEGE. No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

PROJECT

DENTAL HEALTH CENTER AT CARTER PARTNERSHIP CENTER GEORGETOWN CAMPUS

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21179 COLLEGE DRIVE
GEORGETOWN, DELAWARE 19947

DETAILS ELECTRICAL

ISSUE FOR BID

PLAN NORTH

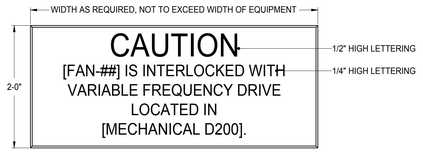
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NO.	DATE	DESCRIPTION
0	12/15/2026	Issue for Bid

Date 10/12/2026
Scale AS NOTED
Drawn KML
Checked KML
Approved KML
Project 25040

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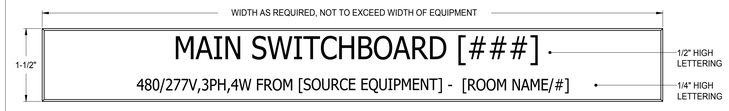


NOTES:

1. NAMEPLATE SHALL BE ENGRAVED WITH WHITE LETTERING ON BLACK BACKGROUND.
2. INSTALL NAMEPLATE ON FRONT OF SAFETY SWITCH SERVING MOTOR.

1 SAFETY SWITCH NAMEPLATE - THREE-PHASE MOTOR SERVED BY REMOTE VARIABLE FREQUENCY DRIVE

NO SCALE





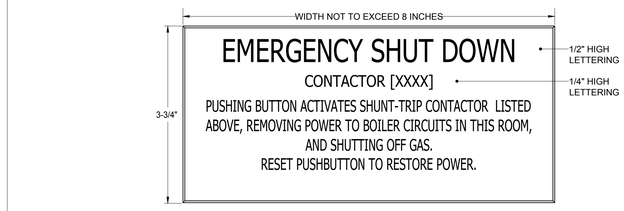


NOTES:

1. LINE #1 IDENTIFIES EQUIPMENTDESIGNATION: SWITCHBOARD, DISTRIBUTION PANELBOARD, PANELBOARD [PANELBOARD DESIGNATION, E.G. DP1D1]
2. LINE #2 IDENTIFIES FEEDER CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE SOURCE IS LOCATED]

2 TYPICAL EQUIPMENT NAMEPLATES

NO SCALE

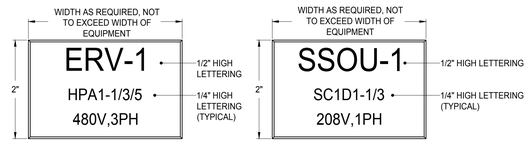


NOTES:

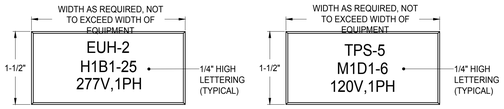
1. NAMEPLATE SHALL BE ENGRAVED WITH WHITE LETTERING ON RED BACKGROUND.
2. EDIT PANELBOARD NAME(S) ON LINE 2 OF NAMEPLATES TO SUIT EACH SPACE. WHERE MORE THAN ONE (1) PANELBOARD IS AFFECTED, REVISE LINE 2 TO READ "PANELBOARDS" FOLLOWED BY PANELBOARD DESIGNATIONS.
3. INSTALL NAMEPLATES ON WALL ABOVE EMERGENCY PUSH-BUTTON(S). SEE FLOOR PLANS FOR QUANTITIES AND LOCATIONS.

3 EMERGENCY PUSH-BUTTON INSTRUCTION NAMEPLATES

NO SCALE



DISCONNECT SWITCH AND/OR COMBINATION MOTOR CONTROLLER



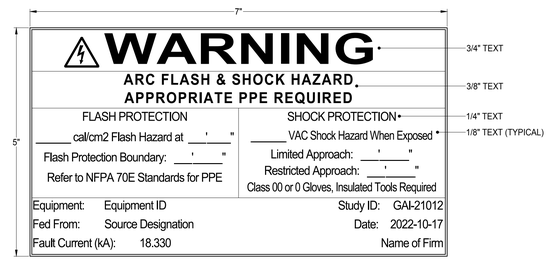
MANUAL MOTOR STARTER/CONTROL SWITCH

NOTES:

1. LINE #1 IDENTIFIES LOAD DESIGNATION: [LOAD DESIGNATION, E.G. ERV-1]
2. LINE #2 IDENTIFIES BRANCH CIRCUIT: [SOURCE EQUIPMENT/CIRCUIT DESIGNATION, E.G. [HPA1-1/3/5]
3. LINE #3 IDENTIFIES BRANCH CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES (NOT REQUIRED FOR SINGLE PHASE CIRCUITS)]
4. WHERE MOTOR SWITCH IS DOWNSTREAM OF THE MOTOR CONTROLLER, ADD A FOURTH LINE OF TEXT TO IDENTIFY MOTOR CONTROLLER LOCATION: [MOTOR CONTROLLER] [VFD] SERVING THIS MOTOR IS LOCATED IN [ROOM NAME] [ROOM NUMBER].
5. PROVIDE NAMEPLATES FOR ALL DISCONNECTING MEANS FOR EQUIPMENT, INCLUDING FACTORY DISCONNECTS PROVIDED INTEGRAL WITH EQUIPMENT.

4 TYPICAL EQUIPMENT NAMEPLATES

NO SCALE

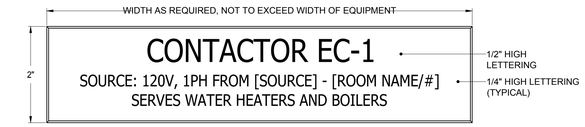


NOTES:

1. APPLY ARC FLASH HAZARD LABELS AT EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT REQUIRED BY NFPA 70 AND NFPA70E.
2. ARC FLASH HAZARD LABELS SHALL BE SPECIFIC TO EACH PIECE OF EQUIPMENT. GENERIC LABELS SUPPLIED WITH EQUIPMENT ARE NOT ACCEPTABLE.

5 TYPICAL ARC FLASH HAZARD LABEL

NO SCALE

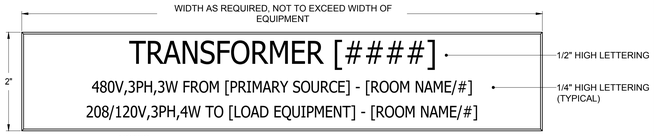


NOTES:

1. LINE #1 IDENTIFIES CONTACTOR DESIGNATION: CONTACTOR [CONTACTOR DESIGNATION, E.G. "EC-1"]
2. LINE #2 IDENTIFIES CONTROL POWER CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE PANELBOARD - [ROOM WHERE SOURCE PANELBOARD IS LOCATED]
3. LINE #3 IDENTIFIES LOAD CONTROLLED BY CONTACTOR.

6 DETAIL - TYPICAL EQUIPMENT NAMEPLATE - ENCLOSED CONTACTOR

NO SCALE

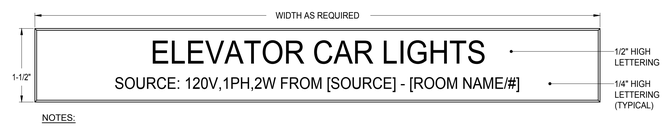


NOTES:

1. LINE #1 IDENTIFIES TRANSFORMER DESIGNATION: TRANSFORMER [TRANSFORMER DESIGNATION, E.G. TDP1D1]
2. LINE #2 IDENTIFIES PRIMARY CIRCUIT INFORMATION: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE SOURCE IS LOCATED]
3. LINE #3 IDENTIFIES SECONDARY INFORMATION: [VOLTAGE], [PHASE], [# WIRES] TO [LOAD EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE LOAD IS LOCATED]

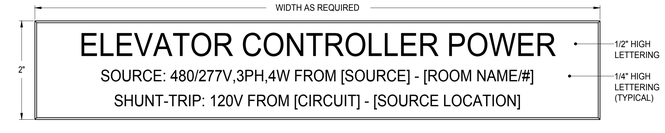
7 TYPICAL EQUIPMENT NAMEPLATE - DRY-TYPE TRANSFORMER

NO SCALE



NOTES:

1. LINE #1 IDENTIFIES EQUIPMENT DESIGNATION: ELEVATOR CAR LIGHTS
2. LINE #2 IDENTIFIES SOURCE INFORMATION: SOURCE: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [SOURCE LOCATION]

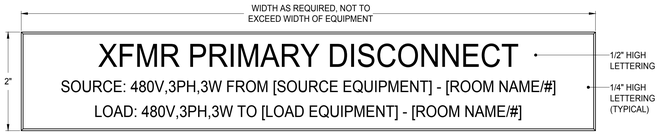


NOTES:

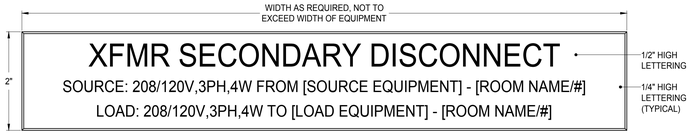
1. LINE #1 IDENTIFIES EQUIPMENT DESIGNATION: ELEVATOR CONTROLLER POWER
2. LINE #2 IDENTIFIES SOURCE INFORMATION: SOURCE: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [SOURCE LOCATION]
3. LINE #3 IDENTIFIES SHUNT-TRIP INFORMATION: SHUNT-TRIP: [VOLTAGE] FROM [CIRCUIT DESIGNATION] - [SOURCE LOCATION]

8 TYPICAL EQUIPMENT NAMEPLATE - ELEVATOR DISCONNECT / CONTROL SWITCH

NO SCALE



TRANSFORMER PRIMARY



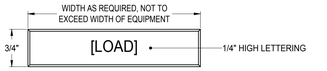
TRANSFORMER SECONDARY

NOTES:

1. LINE #1 IDENTIFIES DISCONNECT: XFMR [PRIMARY] [SECONDARY] DISCONNECT
2. LINE #2 IDENTIFIES SOURCE CIRCUIT INFORMATION: SOURCE: [VOLTAGE], [PHASE], [# WIRES] FROM [SOURCE EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE SOURCE IS LOCATED]
3. LINE #3 IDENTIFIES LOAD CIRCUIT INFORMATION: LOAD: [VOLTAGE], [PHASE], [# WIRES] TO [LOAD EQUIPMENT/CIRCUIT DESIGNATION] - [ROOM WHERE LOAD IS LOCATED]

9 TYPICAL EQUIPMENT NAMEPLATE - TRANSFORMER PRIMARY / SECONDARY DISCONNECTING MEANS

NO SCALE



NOTES:

1. LINE #1 IDENTIFIES LOAD SERVED BY CIRCUIT BREAKER.
2. APPLY TO ALL CIRCUIT BREAKERS IN THE MAIN SWITCHBOARD AND EACH DISTRIBUTION PANELBOARD.

10 TYPICAL EQUIPMENT NAMEPLATE - CIRCUIT BREAKER IN DISTRIBUTION PANELBOARD OR SWITCHBOARD

NO SCALE



NOTES:

1. LINE #1 IDENTIFIES SPARE FUSE CABINET.
2. APPLY TO ALL SPARE FUSE CABINETS LOCATED IN MECHANICAL / ELECTRICAL ROOMS AND PENTHOUSES / MEZZANINES.

11 TYPICAL EQUIPMENT NAMEPLATE - SPARE FUSE CABINET

NO SCALE

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