FAIR HAVEN COMMUNITY HEALTH CARE

SHORELINE FAMILY HEALTH CARE

221 W. MAIN STREET
BRANFORD, CT

CONSTRUCTION DOCUMENTS
1/26/2024

PROJECT TEAM:

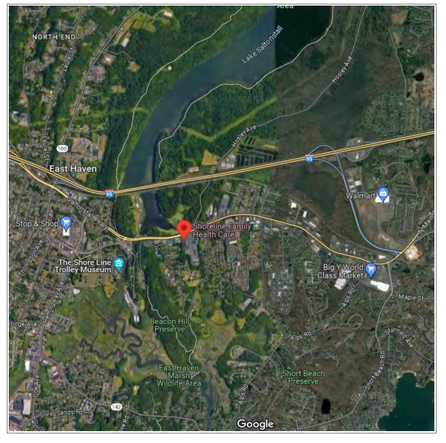
MEP ENGINEER:
VAN ZELM ENGINEERS
10 TALCOTT NOTCH
FARMINGTON, CT 06032

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
www.qamarch.com

LOCATION MAP:

TRUE NORTH: N

PROJECT NORTH: N



LIST OF ABBREVIATIONS

-F	FIRE RATED	JT(S)	JOINT(S)
-P	PARTITION MOUNTED		
-R	RECESSED	KP	KEYPAD LOCK
-S	SURFACE MOUNTED		
-SR	SEMI RECESSED	L	LENGTH
		LAM	LAMINATE(D)
A	AIR	LAV	LAVATORY
A/C	AIR CONDITIONING	LCC	LEAD-COATED COPPER
ABV	ABOVE	LH	LEFT HAND
ACT	ACOUSTIC CEILING TILE	LP	LOW POINT
ADJ	ADJUSTABLE	LT	LIGHT
AFF	ABOVE FINISH FLOOR	LTL	LINTEL
AHU	AIR HANDLING UNIT	LVR	LOUVER
ALT	ALTERNATE	LVT	LUXURY VINYL TILE
ALUM	ALUMINUM		
ANOD	ANODIZED	MANUF	MANUFACTURE(D)(R)
APPROX	APPROXIMATE	MAS	MASONRY
ARCH	ARCHITECT(URAL)	MAX	MAXIMUM
AVB	AIR VAPOR BARRIER	MB	MARKER BOARD
		MECH	MECHAINCAL
B/S	BOTH SIDES	MED	MEDIUM
B/W	BOTH WAYS	MEMB	MEMBRANE
BD	BOARD	MFG	MANUFACTURING
BG	BUMPER GUARD	MH	MECHANICAL HOOD
BIT	BITUMINOUS	MHK	MOP HOOK
BLDG	BUILDING	MIN	MINIMUM
BLKG	BLOCKING	MIR	MIRROR
BM	BEAM	MISC	MISCELLANEOUS
BOT	BOTTOM	MLDNG	MOLDING, MOULDING
BR	BRICK	MO	MASONRY OPENING
BRG	BEARING	MON	MONITOR
BRZ	BRONZE	MTL	METAL
BUR	BUILT-UP ROOFING	MULL	MULLION
		MW	MICROWAVE
CAB	CABINET		
CEM	CEMENT	NAT	NATURAL
CG	CORNER GUARD	NIC	NOT IN CONTRACT
CG-F	CORNER GUARD FIRE RATED	NOM	NOMINAL
CHBD	CHALKBOARD	NTS	NOT TO SCALE
CI	CAST IRON		
CJT	CONTROL JOINT	O2	OXYGEN
CL	CENTER LINE	OA	OVERALL
CLG	CEILING	OBS	OBSCURE
CLOS	CLOSET	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OPG	OPENING
COL	COLUMN	OPP	OPPOSITE
COMP	COMPOSITE(ION)	ORD	OVERFLOW ROOF DRAIN
CONC	CONCRETE		
CONSTR	CONSTRUCTION	PERF	PERFORATE(D)
CONT	CONTINUOUS	PLAM	PLASTIC LAMINATE
CONTR	CONTRACT(OR)	PLUMB	PLUMB(ER)(ING)
CPT	CARPET	PNT	PAINT(ED)
CPTT	CARPET TILE	PP	POWER POLE
CR	CARD READER	PREFAB	PREFABRICATED
CRS	COURSE(S)	PREFIN	PREFINISHED
CT	CERAMIC TILE	PSI	POUNDS PER SQAURE INCH
CTR	COUNTER	PT	POINT
CYD	CUBIC YARD	PTD	PAPER TOWEL DISPENSER
		PTN	PARTITION
D	DRAIN	PTO	PUSH TO OPEN
DEFS	DIRECT-APPLIED EXTERIOR FINISH SYSTEM	PTR	PAPER TOWEL RECEPTACLE
DET	DETAIL(ED)	PVC	POLYVINYL CHLORIDE
DF	DRINKING FOUNTAIN	PVMT	PAVEMENT
DIA	DIAMETER	PVR	PAVER(S)
DIAG	DIAGONAL		
DIM	DIMENSION	QT	QUARRY TILE
DIR	DIRECT(OR)(ION)		
DISP	DISPENSER	R	RISER
DN	DOWN	RAD	RADIAT(OR)(ION)
DR	DOOR	RBR	RUBBER
DUR	DURROCK	RD	ROOF DRAIN
DWG(S)	DRAWING(S)	REF	REFER(ENCE)
DWR	DRAWER	REFR	REFRIGERATOR
		REINF	REINFORC(ED)(ING)
EA	EACH	REM	REMOVE
ED	EDUCATION(AL)	REQ'D	REQUIRED
EF	EXHAUST FAN	RET	RETURN
EIFS	EXTERIOR INSULATION FINISH SYSTEM	REV	REVIS(ED)(ION)
EL	ELEVATION	RFG	ROOFING
ELEC	ELECTRIC(AL)	RH	RIGHT HAND
ELEV	ELEVATOR	RM	ROOM
EMERG	EMERGENCY	RO	ROUGH OPENING
ENG	ENGINEER(ING)	RWL	RAIN WATER LEADER
EP	EPOXY		
EQ	EQUAL	S/STL	STAINLESS STEEL
EQUIP	EQUIPMENT	SC	SOLID CORE
ERD	EMERGENCY ROOF DRAIN	SCH	SCHEDULE
EW	EYEWASH	SD	SOAP DISPENSER
EWC	ELECTRICAL WATER COOLER	SGT	STRUCTURAL GLAZED TILE
EWC-BF	EWC WITH BOTTLE FILL	SH	SHARPS CONTAINER
EXIST	EXISTING	SHT	SHEET
EXP	EXPANSION	SIM	SIMILAR
EXPD	EXPOSED	SKL	SILIKAL
EXT	EXTERIOR	SKLT	SKYLIGHT
		SND	SANITARY NAPKIN DISPENSER
FA	FIRE ALARM	SNW	SANITARY NAPKIN WASTE
FD	FLOOR DRAIN	SPEC(S)	SPECIFICATION(S)
FDN	FOUNDATION	SQ	SQUARE
FE	FIRE EXTINGUISHER	ST-R	SOAP TRAY-RECESSED
FEC	FIRE EXTINGUISHER CABINET	STL	STEEL
FEC-R	FEC-RECESSED	STOR	STORAGE
FEC-SR	FEC-SEMI RECESSED	STRUCT	STRUCTURE(AL)
FIN	FINISH	SUSP	SUSPEND(ED)
FLG	FLASHING	SV	SHEET VINYL
FLR	FLOOR(ING)	SYS	SYSTEM
FP	FIRE-PROOF(ING)		
FR	FRAME	T	TRASH
FRZ	FREEZER	T&G	TONGUE AND GROOVE
FS	FULL SIZE	TB	TACK BOARD
FT	FIRE-TREATED	TEL	TELEPHONE
FTG	FOOTING	TEMP	TEMPER(ED)(ATURE)
FURR	FURR(ED)(ING)	TERM	TERMINAT(ED)(ION)
FUT	FUTURE	THK	THICK(NESS)
FVC	FIRE EXTINGUISHER AND VALVE CABINET	THR	THRESHOLD
FWC	FABRIC WALLCOVERING	TLT	TOILET
		TO	TOP OF
GA	GAGE, GAUGE	TPD	TOILET PAPER DISPENSER
GALV	GALVANIZED	TRANS	TRANSPARENT
GB	GRAB BAR	TUF	TUFFLEX
GBH	GLOVE BOX HOLDER	TYP	TYPICAL
GC	GENERAL CONTRACTOR	TZ	TERRAZZO
GF	GROUND-FACE		
GFRC	GLASS-FIBER REINFORCED CONCRETE	UC	UNDERCOUNTER
GL	GLASS, GLAZING	UNO	UNLESS OTHERWISE NOTED
GWB	GYPSUM WALL BOARD		
		V	VACUUM
HC	HOLLOW CORE	VB	VAPOR BARRIER
HD	HAND DRYER	VCT	VINYL COMPOSITE TILE
HDW	HARDWARE	VERT	VERTICAL
HK	COAT/ROBE HOOK	VIF	VERIFY IN FIELD
HM	HOLLOW METAL	VWC	VINYL WALL COVERING
HORZ	HORIZONTAL		
HP	HIGH POINT	W	WIDE, WIDTH
HR	HANDRAIL	W/	WITH
HS	HAND SANITIZER	W/O	WITHOUT
HT	HEIGHT	WC	WATER COOLER
HTG	HEATING	WD	WOOD
HVAC	HEATING, VENTILATING, AIR CONDITIONING	WG	WIRE GLASS
		WIN	WINDOW
ID	INSIDE DIAMETER	WMF	WELDED WIRE FABRIC
INCL	INCLUDE(D)(ING)	WP	WATERPROOFING
INFO	INFORMATION	WR	WASTE RECEPTACLE
INSUL	INSULAT(ED)(ING)(ION)	WS	WIRE SHELVING
INT	INTERIOR	WWM	WELDED WIRE MESH

CODE INFO

*** CODE INFORMATION FROM CONSTRUCTION DOCUMENTS DATED 06/17/2019 ***

PART 1 - CT STATE BUILDING CODE

1.0 EXISTING BUILDING: ☒ YES ☐ NO ☐ N/A
- 1.1 Continuation of Existing Use ☒ YES ☐ NO ☐ N/A
- 1.2 Change of Use ☐ YES ☒ NO ☐ N/A
- 1.3 Complying with International Existing Building Code ☒ YES ☐ NO ☐ N/A

2.0 NEW BUILDING OR ADDITIONS: ☐ YES ☒ NO ☐ N/A
- 2.1 Exceeds Threshold Building Limits ☐ YES ☐ NO ☒ N/A

3.0 OCCUPANCY CLASSIFICATION B - BUSINESS
- 3.1 Mixed Occupancies -

4.0 HEIGHT AND AREA COMPUTATION + CONSTRUCTION TYPE:

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

This is a non-structural interior renovation of an existing building. Building is Fully Sprinklered.

- **Attic draftstopping not required per IBC section 718.4.3, Exception.**
- **No tenant separation required.**
- **The total building is approximately 38,000 sf with a completely open perimeter.**

CONSTRUCTION INFORMATION

6.0 MEANS OF EGRESS:

6.1 Total Occupant Load (Entire Building)	251
6.2 Total Occupant Load (Largest Floor)	251
6.3 Total Capacity of Exits	1,088
6.4 Total Number of Exits	6
6.5 Egress Width per Occupant:	
6.5.1 Stairs	0.3 inch per occ.
6.5.2 Other Egress Components	0.2 inch per occ
6.5.3 Corridor Width:	
6.5.3.1 Serving less than 50 occupants	36 inches
6.5.3.2 Serving more than 50 occupants	44 inches
6.6 Maximum Travel Distance	250 feet
6.7 Maximum Common Path of Egress Travel	
6.7.1 A, E Occupancy	75 feet
6.7.2 B Occupancy	100 feet
6.8 Maximum Dead End Corridor	
6.8.1 Group B	50 feet
6.9 Separation Distance to Multiple Exits:	1/3 diagonal
6.10 Luminous Egress Path Markings:	Not Required

7.0 FIRE RESISTANT RATING OF STRUCTURE ELEMENTS (TABLE 601) REFER TO CONSTRUCTION DOCUMENTS FOR THE FOLLOWING:

7.1 Exterior Walls (Table 602):	
7.1.1 Load Bearing	0 hrs.
7.1.2 Non-load Bearing	0 hrs.
7.2 Fire Walls & Party Walls	2 hrs.
7.3 Fire Separation Assemblies:	
7.3.1 Fire enclosure of exits	N/A
7.3.2 Shafts	N/A
7.3.3 Mixed Use Separation	N/A
7.3.4 Other Separation Assemblies	N/A
7.4 Fire Partitions	0 hrs.
7.5 Dwelling Unit Separations	N/A
7.6 Smoke Barriers	N/A
7.7 Other Non-bearing Partitions	0 hrs.
7.8 Interior Bearing Walls, Bearing Partitions,Columns, Girders, Trusses and Framing:	
7.8.1 Supporting more than one floor	0 hrs.
7.8.2 Supporting one floor only or a roof	0 hrs.
7.8.3 Structural Members Supporting Wall	0 hrs.
7.9 Floor Construction Including Beams	0 hrs.
7.10 Roof Construction:	
7.10.1 *15ft. or less	0 hrs.
7.10.2 *15ft. or more	0 hrs.
7.10.3 *20ft. or more	0 hrs.

*Height to lowest member

8.0 INCIDENTAL USES
- 8.1 Storage Rooms over 100 square feet — Smoke Tight

9.0 FIRE PROTECTION SYSTEM:

9.1 Fire Suppression System	Y
9.2 Alarms	Y
9.3 Automatic Fire Detection System	Y
9.4 Smoke Control System	N
9.5 Supervision	N
9.6 Fire Extinguishers	Y

PART 2 - CT STATE FIRE SAFETY CODE

1.0 CLASSIFICATION OF OCCUPANCY:	B
2.0 CONSTRUCTION CLASSIFICATION:	BUILDING RENOVATION
3.0 MINIMUM CONSTRUCTION TYPE REQUIRED:	VB
4.0 ACTUAL CONSTRUCTION TYPE PROVIDED:	VB
5.0 NOTIFICATION ALARMS:	Y
6.0 DETECTION:	Y
7.0 EXTINGUISHMENT REQUIREMENTS:	Y

APPLICABLE CODES

- 2022 CONNECTICUT STATE BUILDING CODE, WHICH ADOPTS AND AMENDS:
  - 2021 INTERNATIONAL BUILDING CODE
  - 2021 INTERNATIONAL EXISTING BUILDING CODE
  - 2021 INTERNATIONAL PLUMBING CODE
  - 2021 INTERNATIONAL MECHANICAL CODE
  - 2021 INTERNATIONAL ENERGY CONSERVATION CODE
  - 2020 NFPA 70, NATIONAL ELECTRICAL CODE
- 2017 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- 2010 AMERICANS WITH DISABILITIES ACT: STANDARDS FOR ACCESSIBLE DESIGN
- 2022 CONNECTICUT STATE FIRE SAFETY CODE, WHICH ADOPTS AND AMENDS:
  - 2021 INTERNATIONAL FIRE CODE
- 2022 CONNECTICUT STATE FIRE PREVENTION CODE, WHICH ADOPTS AND AMENDS:
  - 2021 NFPA 1 - UNIFORM FIRE CODE

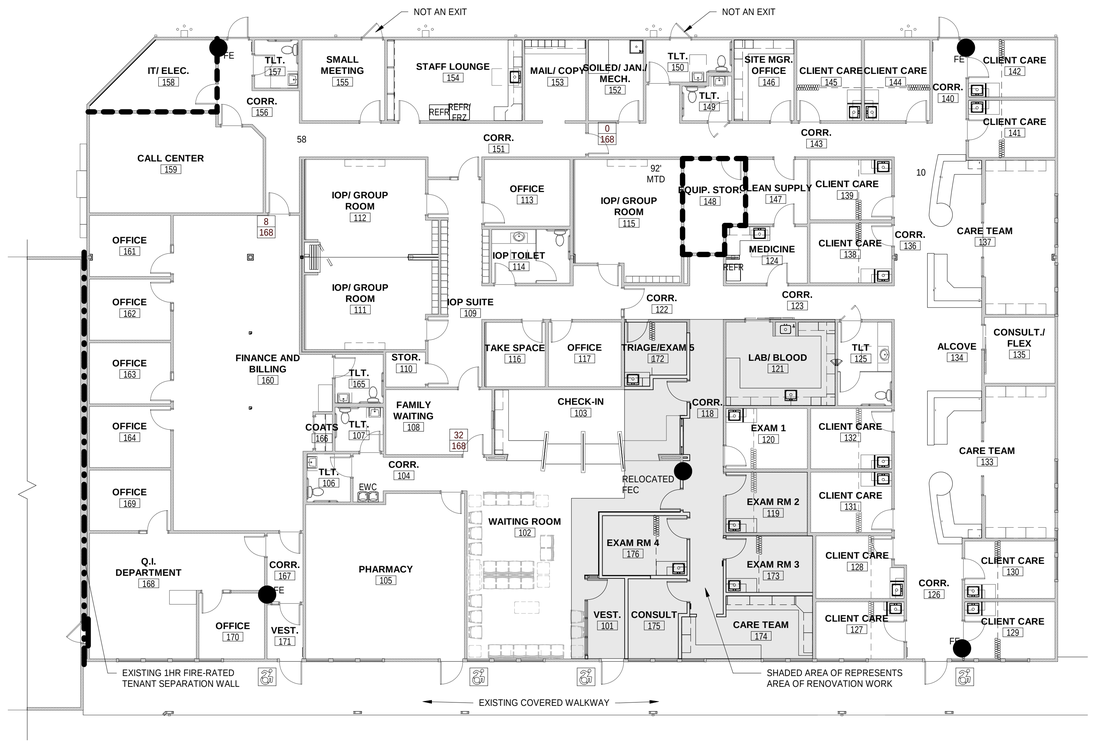
ALTERNATES:

ALTERNATE #1:

CONCTRACTOR TO PROVIDE A CREDIT FOR THE RE-USE OF ANY EXISTING DOOR HARDWARE.

ALTERNATE #2:

CONTRACTOR TO PROVIDE A COST FOR PROVIDING NEW CRASHRAILS, CR-1.



OVERALL FLOOR PLAN

3/32" = 1'-0"

LIST OF DRAWINGS

INTERIOR RENOVATION PROJECT:

THE SCOPE OF WORK IS A NON-STRUCTURAL RENOVATION IN AN EXISTING MEDICAL OFFICE SUITE. THE EXISTING BUILDING HEIGHT AND AREA ARE TO REMAIN WITHOUT ANY MODIFICATIONS. AREA OF RENOVATION WORK IN THE FOLLOWING LOCATIONS: VESTIBULE 101, WAITING 102, CHECK-IN 103, CORRIDOR 118, EXAM 119, EXAM 172 & 173, CARE TEAM 174, CONSULT 175, AND EXAM 176. THE APPROXIMATE AREA OF THE TOTAL RENOVATION AREA IS APPROXIMATELY 1,300 SF.

QA+M architecture
QuesenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: **2387**

Revisions

Issue Dates:

CONSTRUCTION DOCUMENTS 1/26/2024

LIST OF DRAWINGS, ABBREVIATIONS, CODE INFO

A0.0

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TEMPORARY PARTITION WALLS:

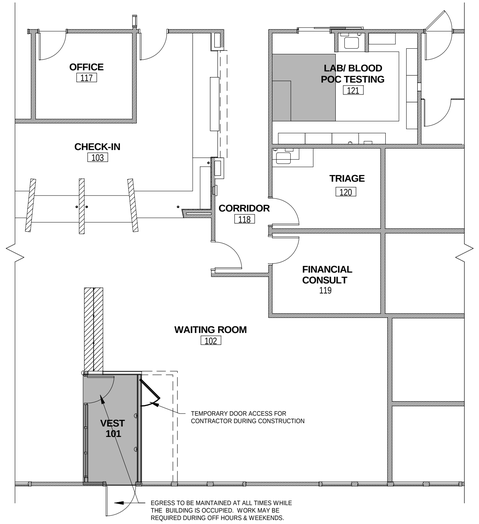
RUN UP TO THE UNDERSIDE OF EXISTING CEILINGS ABOVE.
TEMPORARY PARTITION WALLS TO BE CONSTRUCTED OF METAL STUDS & 5/8" GWB ON EITHER SIDE OF STUDS.

HOURS OF OPERATION:

CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING HOURS OF OPERATION WITH OWNER PRIOR TO COMMENCING WORK. THE FACILITY WILL REMAIN OPERATIONAL DURING CONSTRUCTION WITH BOTH STAFF AND PATIENT OCCUPANCY.

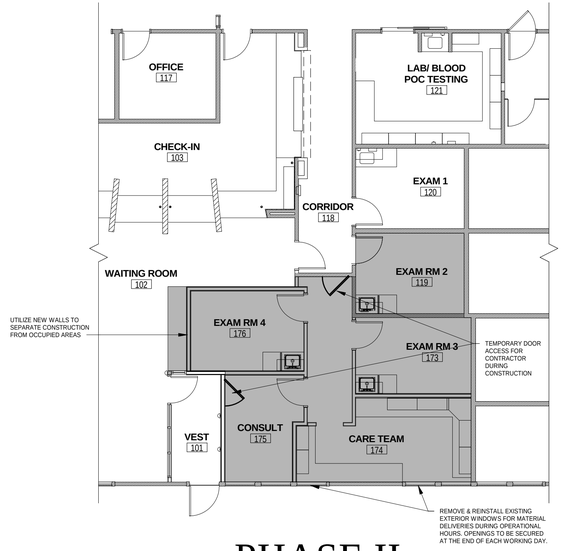
CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EGRESS PATHS AT ALL TIMES DURING CONSTRUCTION.

CONTRACTOR IS TO PROVIDE TEMPORARY CONTAINMENT OF CONSTRUCTION WORK WHILE WORKING IN AN OCCUPIED SPACES. FOR WORK DONE OFF HOURS AND/OR WEEKENDS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PUTTING ITEMS BACK TO ORDER & CLEANING BEFORE STAFF/PATIENTS RETURN TO THE SPACE.



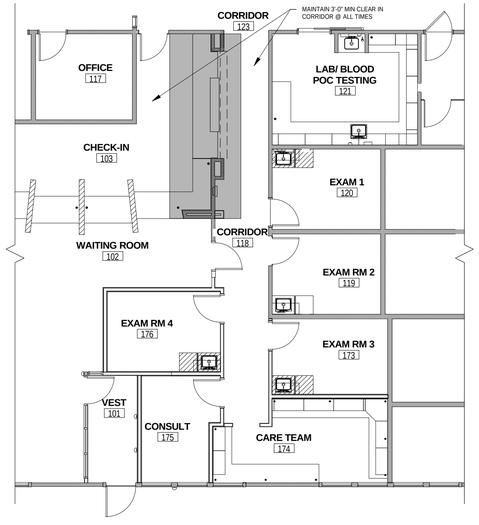
PHASE I

- DEMOLITION OF EXISTING VESTIBULE 101
- CONSTRUCTION OF NEW VESTIBULE
  (WORK WILL BE REQUIRED TO BE DONE AFTER HOURS)
- SANITARY WORK IN BLOOD LAB 121



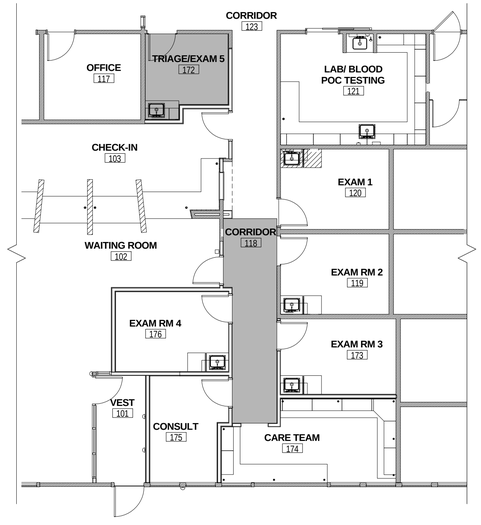
PHASE II

- REMOVAL OF EXISTING FEATURE WALL DIVIDER IN WAITING ROOM 102 / INSTALL NEW ALUM WINDOW
- CONSTRUCTION OF EXAM ROOMS 119, 173, 176
- CONSTRUCTION OF CARE TEAM 174
- CONSTRUCTION OF CONSULT 175



PHASE III

- DEMOLITION OF EXISTING MILLWORK @ CHECK-OUT
- REMOVAL OF EXISTING SOFFIT @ CHECK-OUT
- CONSTRUCTION OF NEW WALL & DOOR FOR CHECK-IN 103
- CONSTRUCTION OF NEW CHECK-OUT WINDOW



PHASE IV

- REMAINDER OF WORK - CONTRACTOR WILL NEED TO COORDINATE WITH OWNER HOURS OF OPERATION DUE TO PATIENTSTAFF OCCUPANCY
- COMPLETE CONSTRUCTION OF TRIAGE/EXAM ROOM 172
- CONSTRUCTION OF NEW DOOR FROM WAITING ROOM 102 TO CORRIDOR 118
- COMPLETION OF CEILING WORK IN CORRIDOR 118

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PHASING PLANS

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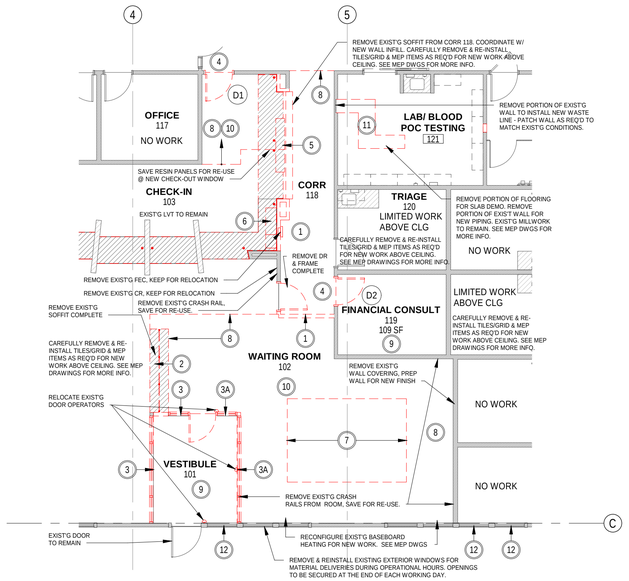


1 A1.0 PARTIAL REMOVAL PLAN
1/8" = 1'-0"

REMOVAL PLAN NOTES

1. REMOVE PORTION OF EXISTING INTERIOR WALL FOR NEW WALL OPENING. COORDINATE W/ NEW WORK.
2. REMOVE EXISTING HALF HEIGHT WALL, RESIN PANELS, CRASH RAIL, AND RBR BASE COMPLETE. SAVE RESIN PANELS & CRASH RAIL FOR RE-USE.
3. REMOVE EXISTING STOREFRONT WINDOWS COMPLETE. EXISTING INTERIOR WALL BELOW TO REMAIN.
3A. REMOVE EXISTING STOREFRONT WINDOWS COMPLETE AND INTERIOR WALL ABOVE/BELOW.
4. REMOVE EXISTING DOOR, HM FRAME TO REMAIN. SAVE FOR RE-USE.
5. REMOVE EXISTING CHECK-OUT COUNTER, RESIN PANEL AND WALL COMPLETE. COORDINATE W/ NEW INFILL. SAVE RESIN PANELS FOR RE-USE.
6. REMOVE EXISTING WALL MOUNTED CABINETS. PATCH EXISTING WALL @ REMOVAL.
7. REMOVE EXISTING CLOUD CEILING COMPLETE.
8. CAREFULLY REMOVE EXISTING CEILING TILES & GRID COMPLETE, COORDINATE W/ NEW WORK. **SAVE CEILING TILES FOR RE-USE.**
9. REMOVE EXISTING FLOORING, ADHESIVES AND PADDING AT CARPETED AREAS. PREP SUBSTRATE FOR NEW FINISHES, TYP. REMOVE RB BASE.
10. REMOVE EXISTING LVT FLOORING AND ADHESIVES. PREP SUBSTRATE FOR NEW FINISHES. REMOVE RB BASE.
11. TRENCH EXISTING CONCRETE SLAB FOR INSTALLATION OF PIPING FOR NEW FIXTURE LAYOUT. MINIMIZE THE EXTENT OF SAWCUTTING THE EXISTING SLAB. COORDINATE WITH PLUMBING PLANS FOR TRENCH LOCATIONS.
12. EXISTING EXTERIOR WALLS, WINDOWS AND DOORS TO REMAIN.

REMOVAL GENERAL NOTES

1. DEMOLITION NOTES ARE FOR GUIDANCE ONLY AND ARE GENERAL IN NATURE. IT IS NOT THE INTENT TO POINT OUT EACH ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL ELEMENTS OF EACH ITEM NOTED AND/OR SHOWN TO BE DEMOLISHED, OR AS REQUIRED TO PROVIDE COMPLETED WORK IN ACCORDANCE WITH ALL CONTRACT DOCUMENTS.
2. BOTH THIS TENANT AND THE REMAINDER OF THIS MULTI- TENANT BUILDING WILL REMAIN IN USE DURING DEMOLITION AND CONSTRUCTION PHASES. CONTRACTOR SHALL TAKE CARE TO MINIMIZE IMPACT ON OTHER BUILDING OCCUPANT'S ACTIVITIES AS WELL AS WITH THIS TENANT. DUST, DEBRIS AND NOISE SHALL BE CONTAINED WITH TEMPORARY PARTITIONS AS REQUIRED. EGRESS PATHS MUST ALSO REMAIN INTACT DURING CONSTRUCTION.
3. COORDINATE EXTENT OF REMOVALS WITH NEW WORK. ALL AREAS AFFECTED BY DEMOLITION OF EXISTING CONSTRUCTION OR REMOVAL OF NOTED ITEMS SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND/OR SUBSTRATE SHALL BE PROVIDED TO SUPPORT NEW FINISH. PREPARE ALL AREAS WITHIN PROJECT SCOPE FOR NEW WORK. COORDINATE WITH NEW FINISHES TO BE APPLIED AT AREAS AFFECTED BY DEMOLITION WORK.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE DISPOSAL OF DEMOLITION MATERIALS NOT IDENTIFIED TO BE SALVAGED.
5. REFER TO M.E.P. FOR ADDITIONAL DEMOLITION INFORMATION AND REQUIREMENTS.
6. COORDINATE WITH M.E.P. DRAWINGS FOR REMOVALS AND DISCONNECTS OF WATER, ELECTRIC, ETC. REQUIRED FOR THE COMPLETION OF ALL WORK.
7. COORDINATE WITH M.E.P. DRAWINGS FOR ALL NEW THROUGH WALL/FLOOR/ROOF PIPING, CONDUIT AND DUCTWORK. CUT AND REMOVE AFFECTED WALLS, FLOOR CONSTRUCTION, ROOF CONSTRUCTION OR CONCRETE SLABS AS REQUIRED.
8. ALL EXISTING PIPING AND CONDUIT BRANCHES NOTED TO BE REMOVED SHALL BE CAPPED INSIDE WALL OR UNDER SLAB OUT OF VIEW. THESE LOCATION SHALL BE PATCHED TO MATCH EXISTING FINISHES.
9. CONTRACTOR TO PROVIDE TEMPORARY SHORING/BRACING AS REQUIRED.
10. CONTRACTOR TO VERIFY ITEMS THAT WILL BE TURNED OVER TO THE OWNER PRIOR TO DEMOLITION. ITEM TO BE SALVAGED OR DISPOSED OF WILL BE AT THE OWNER'S DISCRETION. THIS INCLUDES SIGNS AND OTHER ACCESSORIES MOUNTED IN THE ROOMS AND CORRIDORS WHERE WALLS WILL BE MODIFIED OR REMOVED.
11. CONTRACTOR TO ASSUME ALL EXISTING WALL CONSTRUCTION IS METAL STUD WITH A GYPSUM WALL BOARD FINISH UNLESS NOTED OTHERWISE.
12. ALL EXISTING AND NEW PENETRATIONS THROUGH FLOOR SLAB AND WALLS ARE TO BE SEALED AND PROVIDED WITH THE APPROPRIATE FIRE RATING WHERE REQUIRED.

PLAN LEGEND

- REMOVE WALL / ITEM
- EXISTING CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- ROOM NAME / 0000 — ROOM TAG
- 0000 — DOOR TAG
- X — WINDOW TAG
- X — WALL TAG
- 00 — WORK SCOPE TAG
- X / X.X / X — INTERIOR ELEVATION TAG
- X / AX — DETAIL TAG
- PTO
- XX — EXIST COLUMN GRID LINE

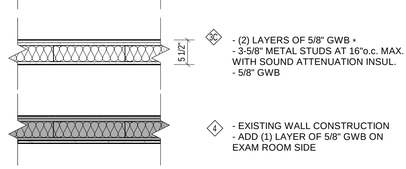
GENERAL PLAN NOTES

1. THE FACILITY IS TO REMAIN IN USE THROUGHOUT THE DEMOLITION AND CONSTRUCTION PROCESS. CONTRACTOR TO COORDINATE WITH OWNER REQUIREMENTS FOR TEMPORARY PARTITIONS TO SEPARATE CONSTRUCTION AREAS FROM OCCUPIED SPACES. TAKE CARE TO MAINTAIN EGRESS PATHS AT ALL TIMES.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. COORDINATE WITH M.E.P. DRAWINGS FOR DUCTWORK, PIPE, CONDUIT, ETC. THROUGH WALLS & SLABS. CUT ANY NEW HOLES AS REQUIRED. FILL ANY HOLES, VOIDS, AND OPENINGS WITH MATCHING MATERIAL. SEAL OFF CRACKS W/SAFING SEALANTS FOR SMOKE OR FIRE-RATED CONSTRUCTION. SEAL ALL NEW DUCT PENETRATIONS SMOKE TIGHT.
4. NEW WALLS SHALL BE LOCATED AS DETERMINED BY THE FOLLOWING PRIORITY: PERPENDICULAR TO THE EXISTING WALL WHICH IT ABUTS; PARALLEL AND IN LINE WITH EXISTING WALL IT EXTENDS FROM; PARALLEL TO WALL FROM WHICH IT IS DIMENSIONED.
5. INTERIOR DIMENSIONS ARE TO FACE OF EXISTING FINISH THAT REMAINS OR TO FACE OF NEW STUD UNLESS OTHERWISE NOTED.
6. REFER TO SHEET A0.0 FOR CODE INFORMATION AND OVERALL FLOOR PLAN.
7. PROVIDE BLOCKING IN STUD PARTITIONS AS REQUIRED FOR ITEMS ATTACHED TO WALL. COORDINATE WITH ALL DRAWINGS.
8. REFER TO SHEET A2.0 FOR DOOR SCHEDULE AND DETAILS.

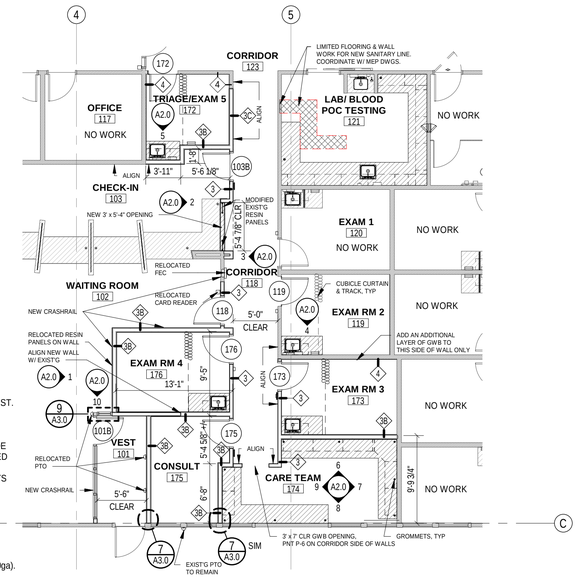
GENERAL PARTITION NOTES:

1. UNLESS NOTED OTHERWISE, ALL NEW WALLS SHALL EXTEND TIGHT TO UNDERSIDE OF EXIST. ROOF TRUSSES. PROVIDE DIAGONAL STUD BRACING AS REQUIRED.
2. INTERIOR FINISH MATERIALS VARY ON WALLS -- SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE.
3. COORDINATE WITH CODE DRAWINGS FOR RATED WALLS AND SMOKE PARTITIONS. PROVIDE SAFING PER DETAILS AT SMOKE PARTITIONS; SAFING WITH FIRESTOP COMPOUND AT RATED PARTITIONS.
4. WHERE BATT INSULATION IS NOT ENCASED BY GWB BOTH SIDES, PROVIDE WIRE SUPPORTS AS NECESSARY.
5. PROVIDE BLOCKING IN STUD PARTITIONS AS REQUIRED FOR ITEMS ATTACHED TO WALL. COORDINATE WITH ALL DRAWINGS.
6. PROVIDE VERTICAL CONTROL JOINTS IN GWB WALLS AT 30'-0"o.c. MAX. AND HORIZONTAL CONTROL JOINTS IN GWB CEILINGS AT 50'-0"o.c. MAX. CAULK AT JOINTS TYPICAL.
7. UNLESS NOTED OTHERWISE, ALL WALLS TO BE WALL TYPE '3' AND TO EXTEND TIGHT TO UNDERSIDE OF EXIST. ROOF TRUSSES WITH DIAGONAL STUD BRACING AT 4'-0"o.c. MAX.
8. STEEL STUDS & RUNNERS TO HAVE A MINUMUM BASE METAL THICKNESS OF .0329 INCH (20ga).
9. USE 5/8" TYPE 'X' WALLBOARD WITH MOISTURE AND MOLD RESISTANCE.

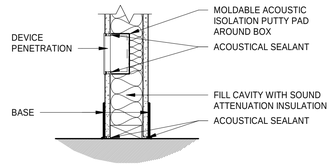
INTERIOR PARTITION TYPES:



* FOR DOUBLE LAYERS OF GWB: NO NEED TO TAPE THE 1ST LAYER; OFFSET SEAMS 16" IN BOTH DIRECTIONS



2 A1.0 PARTIAL FLOOR PLAN
1/8" = 1'-0"



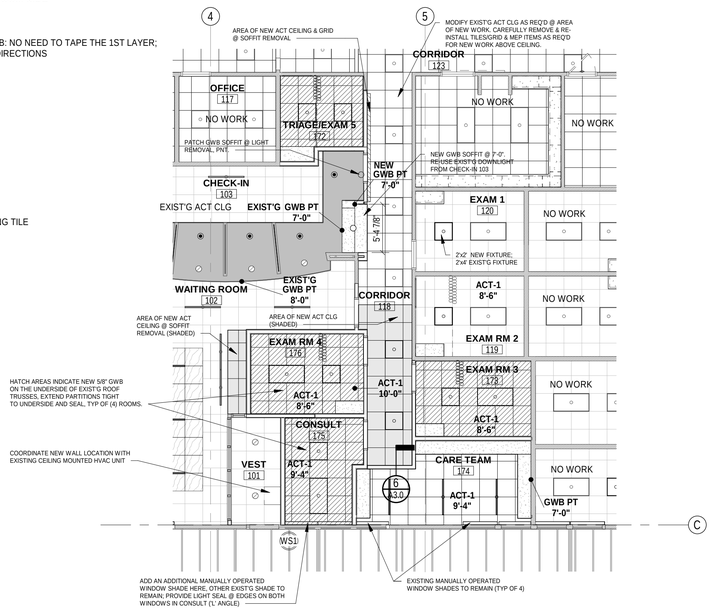
A A1.0 TYP BASE OF WALL DETAIL
1 1/2" = 1'-0"

CEILING LEGEND

- CEILING MOUNTED LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXIT SIGN
- WS1 — MANUALLY OPERATED WINDOW SHADE
- ROOM NAME / 0000 — ROOM NAME/NUMBER
- ACT 9'-0" — CEILING TYPE/HEIGHT
- SUSPENDED ACOUSTIC CEILING TILE
- GWB CEILING / SOFFIT
- CURTAIN & TRACK

REFLECTED CEILING PLAN NOTES

1. SEE M.E.P. DRAWINGS FOR FIXTURE AND DEVICE TYPES, QUANTITIES AND ADDTIONAL LOCATIONS.
2. HATCHED AREA INDICATES NEW 5/8" GWB AT THE UNDERSIDE OF EXISTING ROOF TRUSSES. EXTEND EXISTING & NEW PARTITIONS TIGHT TO UNDERSIDE AND SEAL.
3. SEISMIC REQUIREMENTS FOR ALL SPACES LARGER THAN 144 SQ. FT:
   A. HANGER WIRES SHALL BE 12 GA., UNLESS NOTED OTHERWISE.
   B. ONE SET OF FOUR SPLAY WIRES SHALL BE INSTALLED FOR EACH 144 SQ.FT UNLESS OTHER SPECIALLY DESIGNED & DETAILED BRACING IS PROVIDED. THE FIRST SET OF SPLAY WIRES SHALL BE 4'-0" FROM ANY WALL OR PERIMETER. WIRES SHALL BE TAUT WITHOUT CAUSING CEILING TO LIFT.
   C. ATTACH TEES TO (2) ADJACENT WALLS IN EACH SPACE. ALLOW 1/4" CLEARANCE BETWEEN END OF TEE AND REMAINING WALLS.
4. REFER TO SHEET A3.0 FOR TYPICAL CEILING DETAILS.



3 A1.0 PARTIAL REFLECTED CEILING PLAN
1/8" = 1'-0"

QA+M architecture
QuesenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: **2387**

Revisions

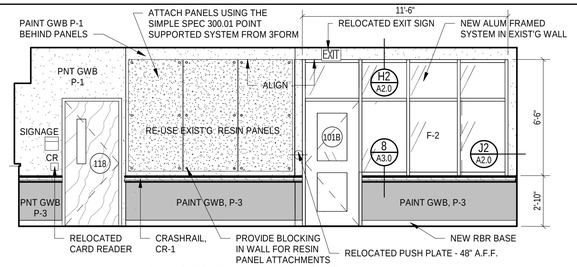
Issue Dates:

N

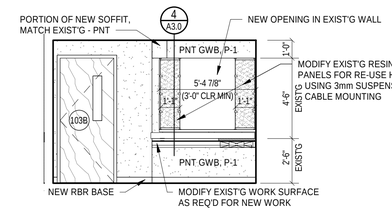
CONSTRUCTION DOCUMENTS 1/26/2024

PARTIAL REMOVAL PLAN / PARTIAL FLOOR PLAN / PARTIAL REFLECTED CEILING PLAN

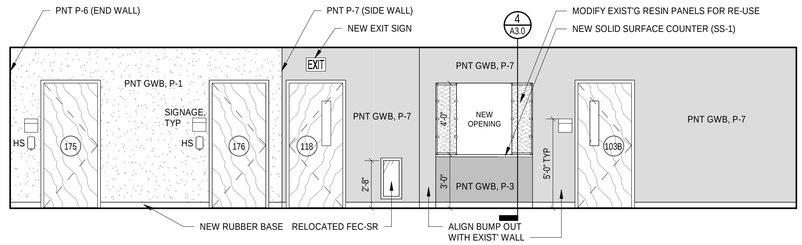
A1.0



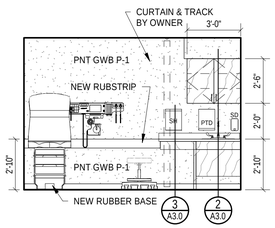
1 A2.0 WAITING ROOM 102 (N)
1/4" = 1'-0"



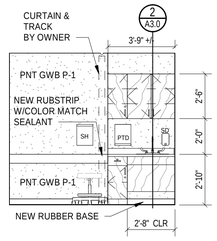
2 A2.0 CHECK-IN 103 (N)
1/4" = 1'-0"



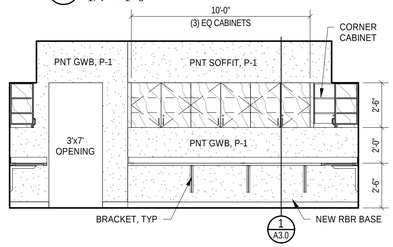
3 A2.0 CORRIDOR 118 (S)
1/4" = 1'-0"



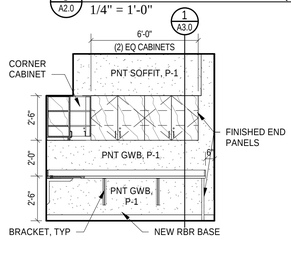
4 A2.0 EXAM RM 119 (E)
1/4" = 1'-0"



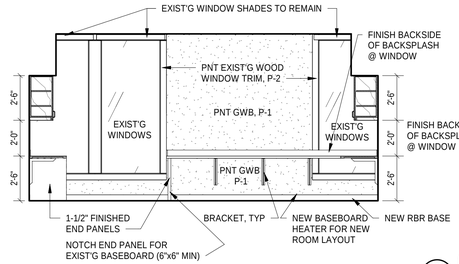
5 A2.0 EXAM RM 172 (E)
1/4" = 1'-0"



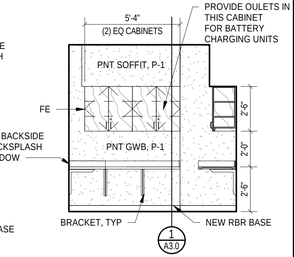
6 A2.0 CARE TEAM 174 (N)
1/4" = 1'-0"



7 A2.0 CARE TEAM 174 (E)
1/4" = 1'-0"



8 A2.0 CARE TEAM 174 (S)
1/4" = 1'-0"



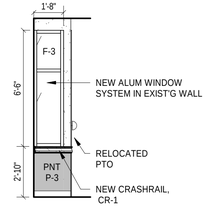
9 A2.0 CARE TEAM 174 (W)
1/4" = 1'-0"

DOOR SCHEDULE

Door No.	DOORS Width Leaf 1	Width Leaf 2	Height	Thickness	Door Type	Door Mat'l	Frame Type	Frame Mat'l	FRAMES Head Detail	Jamb Detail	Sill Detail	Dim W	Hardware Set	Notes
101B	3'-0"		7'-0"	1 3/4"	D-4	ALUM	F-2	ALUM	H2	J2	S1	4 1/2"	01	
103B	3'-0"		7'-0"	1 3/4"	D-2	WD	F-1	HM	H1	J1		4 7/8"	03	RE-USE OF EXISTING DOOR D-1 (VERIFY EXIST'G DR SIZE)
118	3'-0"		7'-0"	1 3/4"	D-2	WD	F-1	HM	H1	J1		4 7/8"	02	RE-USE OF EXISTING DOOR D-2 (VERIFY EXIST'G DR SIZE); RE-USE CARD READER
119	3'-0"		7'-0"	1 3/4"	D-1	WD	EXIST	EXIST	EXIST	EXIST		0"	04	NEW DOOR IN EXISTING FRAME
172	3'-0"		7'-0"	1 3/4"	D-1	WD	EXIST	EXIST	EXIST	EXIST		0"	04	NEW DOOR IN EXISTING FRAME
173	3'-0"		7'-0"	1 3/4"	D-1	WD	F-1	HM	H1	J1		4 7/8"	04	
175	3'-0"		7'-0"	1 3/4"	D-1	WD	F-1	HM	H1	J1		4 7/8"	04	
176	3'-0"		7'-0"	1 3/4"	D-1	WD	F-1	HM	H1	J1		4 7/8"	04	

GENERAL INTERIOR ELEVATION NOTES

1. PROVIDE A LEVEL 4 FINISH ON ALL WALLS SCHEDULED TO RECEIVE PAINT. PROVIDE A LEVEL 1 FINISH IN CEILING PLENUMS AND CONCEALED AREAS.
2. VERIFY ALL EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
3. PROVIDE LOCKS ON ALL BASE/UPPER CABINETS & DRAWERS UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS.
4. ELECTRICAL OUTLETS / DEVICES SHOWN ARE FOR REFERENCE ONLY. REFER TO MEP FOR MORE INFORMATION AND ADDTIONAL LOCATIONS.
5. PTD / SD / HS DISPENSERS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.



10 A2.0 WAITING ROOM 102
1/4" = 1'-0"

GENERAL DOOR & FRAME SPECIFICATIONS

1. WOOD DOORS ARE TO BE 5-PLY WITH STILES AND RAILS BONDED TO CORE, PREMIUM GRADE 'AA', 1-3/4" THICKNESS, PLAIN SLICED WHITE MAPLE VENEER, SLIP MATCH & BALANCE MATCH. STAIN FINISH - RAVINE RA18.
2. DOORS TO HAVE 'LIFE OF INSTALLATION' WARRANTY.
3. NON-RATED DOORS ARE TO HAVE STRUCTURAL COMPOSITE LUMBER CORES.
4. ALL DOORS TO BE PREMACHINED FOR HARDWARE PER FINAL APPROVED HARDWARE SCHEDULE.
5. NON RATED DOORS WITH LITE OPENINGS ARE TO HAVE VT1 FLUSH WOOD BEADS SAME AS SPECIES AS DOOR FACES.
6. NON RATED DOORS TO HAVE 1/4" TEMPERED FACTORY GLASS.
7. ALL DOORS TO HAVE 5/8" UNDERCUT.
8. PREPARE FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE ACCORDING TO FINAL DOOR HARDWARE SCHEDULE & TEMPLATES PROVIDED BY HARDWARE SUPPLIER .
9. ALL FRAMES TO BE INTERIOR 14 GA. MAXIMUM DUTY, COLD ROLLED STEEL, FACE WELDED CONSTRUCTION, AND METAL STUD 'Z' ANCHOR. SUBSTITUTION OF KNOCKDOWN FRAMES WILL NOT BE ALLOWED.
10. BASIS OF DESIGN FOR ALUM STOREFRONT: KAWNEER 500 STANDARD ENTRANCES (WIDE STYLE) FOR DOOR AND TRIFAB VG 450 CENTER FOR SINGLE GLAZING FRAMES (1-3/4" SIGHTLINE).

DOOR HARDWARE SETS

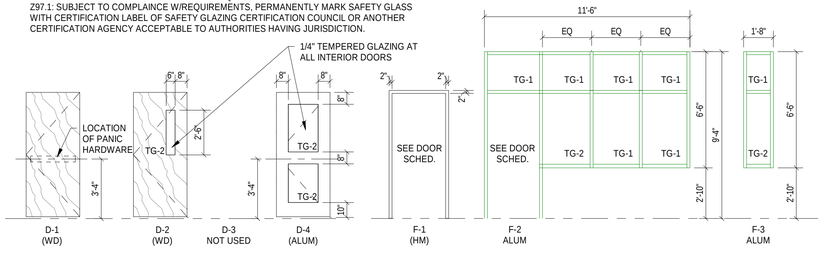
** ALTERNATE #1: CONTRACTOR TO PROVIDE A CREDIT FOR THE RE-USE OF ANY EXISTING DOOR HARDWARE **

- HARDWARE SET #01: (1) CONTINUOUS GEARED HINGE; 780-111 HD; 83" CLEAR; CONCEALED LEAF (HAGER)
  (1) PUSH/PULL; BF15847 - 12" PULL CTC x 32" PUSH CTC; MTG TYPE '5' AND '6' x US32D (ROCKWOOD)
  (1) AUTO DOOR OPENER/CLOSER
  (1) WEATHERSTRIPPING - ALUM DOOR SUPPLIER
  AUTO OPERATOR (STANLEY TECHNOLOGY MAGIC FORCE AUTO SWING OPERATOR)
  AUTOMATIC CLOSING'; INSTALLATION OF SPECIFIED DEGREE OF SWING (90°);
  ACCESSIBLE THRESHOLD
- HARDWARE SET #02: (2) BALL BEARING HINGES; FBB179 - 4.5 x 4.5 NRP; US26D (STANLEY)
  (1) ELECTRIC BALL BEARING HINGE; CECB179 - 4.5 x 4.5; US26D (STANLEY)
  (1) MOTAR BOX; 430; H2H (HAGER)
  (1) ELECTRIFIED LOCKSET; C88OJ EL LRC RX; 626 (DORMA DOOR CONTROLS)
  (1) CORE; 1C-7A1; 626 (BEST ACCESS SYSTEMS)
  (1) OVERHEAD REGULAR ARM CLOSER; 8916 AF89P SN1; 689 (DORMA DOOR CONTROLS)
  (1) POWER SUPPLY; PS501 (DORMA DOOR CONTROLS)
  (1) ELECTROLYNX HARNESS; QC-C300 (MCKINNEY)
  (1) ELECTROLYNX HARNESS; QC-C1500 (MCKINNEY)
  (1) KICKPLATE; K1050; 08" x 34"; 18ga; US32D (ROCKWOOD)
  (1) WALL STOP; 409; US32D(ROCKWOOD)
  (3) SILENCER, HM DR FRAME; 608-RKW; GRAY (ROCKWOOD)
- HARDWARE SET #03: (3) BALL BEARING HINGES; FBB179 4.5 x 4.5 NRP; US26D (STANLEY)
  (1) PASSAGE LATCHSET; C810 LRC; 626 (DORMA DOOR CONTROLS)
  (1) OVERHEAD REGULAR ARM CLOSER; 8916 AF89P SN1; 689 (DORMA DOOR CONTROLS)
  (1) KICK PLATE; K1050 8" x 34"; US32D (ROCKWOOD)
  (1) WALL STOP; 409; US32D (ROCKWOOD)
  (3) SILENCER, HM DR FRAME; 608-RKW; GRAY (ROCKWOOD)
- HARDWARE SET #04: (3) BALL BEARING HINGE; FBB179; 4.5 x 4.5; US26D (STANLEY)
  (1) PASSAGE LATCHSET; C810 LRC; 626 (DORMA DOOR CONTROLS)
  (1) WALL STOP; 409; US32D (ROCKWOOD)
  (1) SET SMOKE SEAL; S773 D 17' (PEMKO)
  (1) SMOKE SEAL; S44 D 17' (PEMKO)

GLAZING LEGEND

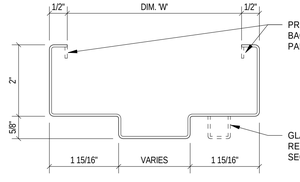
TG-1 TEMPERED GLAZING
TG-2 TEMPERED GLAZING (CONSIDERED HAZARDOUS LOCATION)

SAFETY GLASS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1202 AND ANSI Z97.1: SUBJECT TO COMPLAINCE W/REQUIREMENTS, PERMANENTLY MARK SAFETY GLASS WITH CERTIFICATION LABEL OF SAFETY GLAZING CERTIFICATION COUNCIL OR ANOTHER CERTIFICATION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

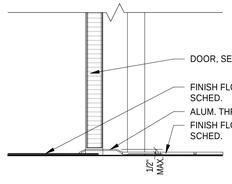


DOOR TYPES
1/4" = 1'-0"

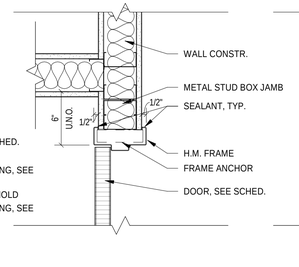
DOOR FRAME TYPES
1/4" = 1'-0"



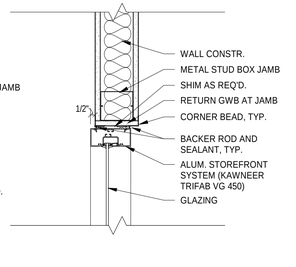
TYP. H.M. FRAME DETAIL
6" = 1'-0"



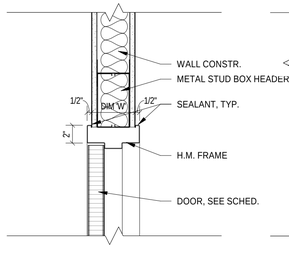
S1 A2.0 SILL DETAIL
1 1/2" = 1'-0"



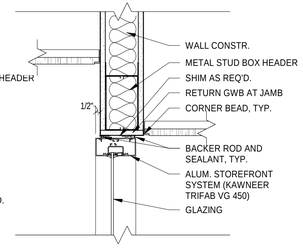
J1 A2.0 JAMB DETAIL
1 1/2" = 1'-0"



J2 A2.0 JAMB DETAIL
1 1/2" = 1'-0"



H1 A2.0 HEAD DETAIL
1 1/2" = 1'-0"



H2 A2.0 HEAD DETAIL
1 1/2" = 1'-0"

QA+M architecture
QuesenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

Fair Haven Community Health Care

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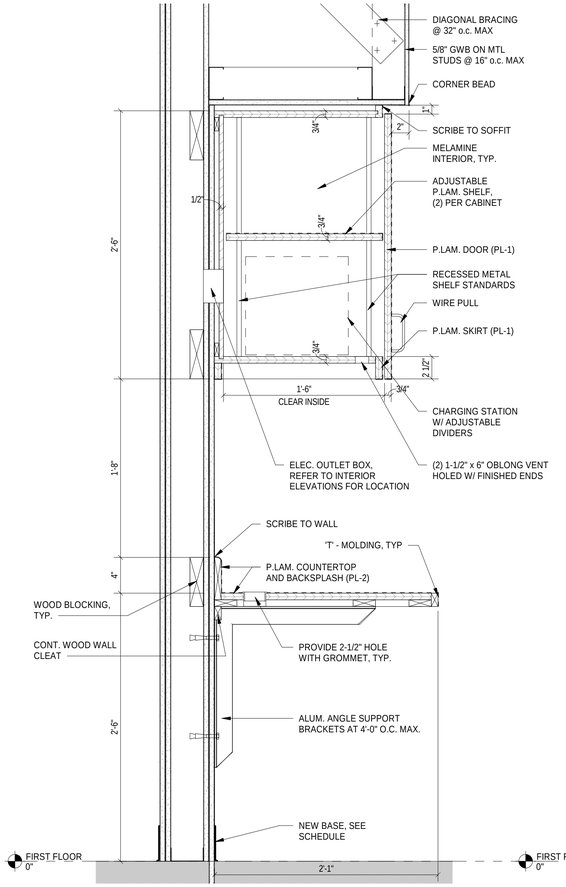
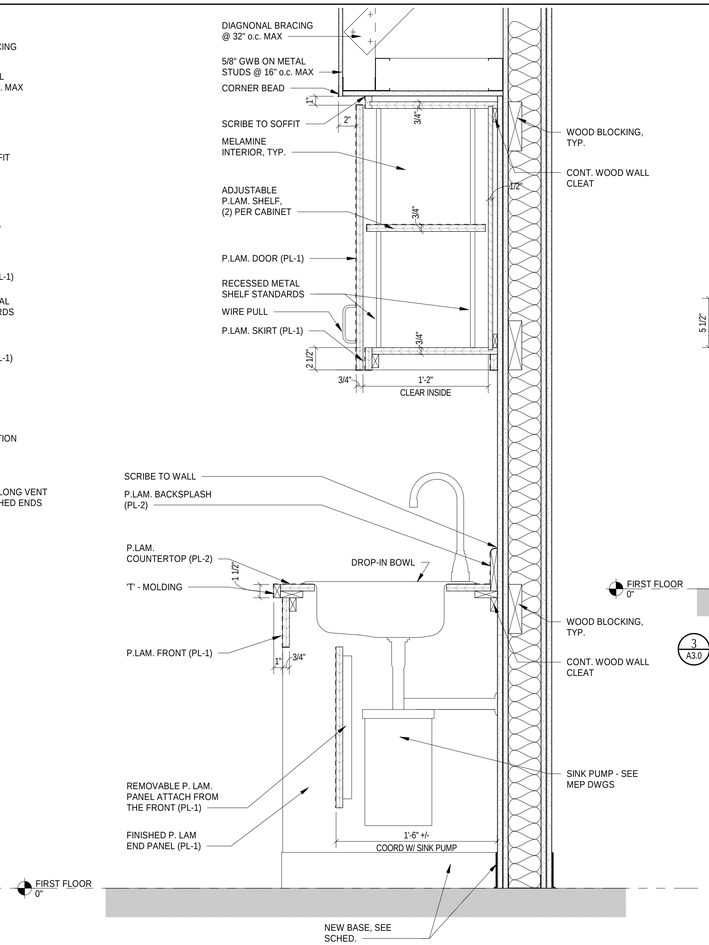
INTERIOR ELEVATIONS

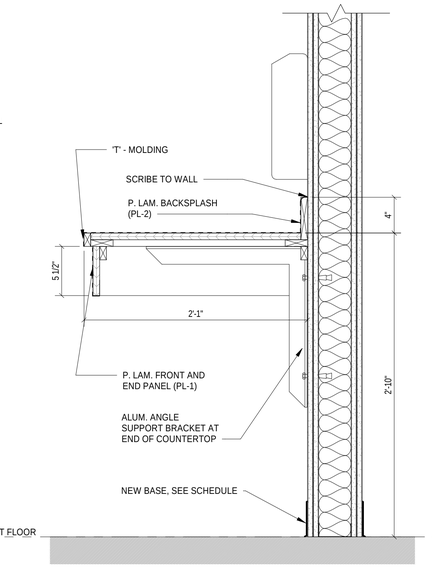
A2.0



1 A3.0 TYP STAFF WORKSTATION
1 1/2" = 1'-0"



2 A3.0 TYP CARE STATION SINK
1 1/2" = 1'-0"



3 A3.0 TYP CARE STATION WORK COUNTER
1 1/2" = 1'-0"

HARDWARE INFORMATION:

HINGES:	BLUM; 110° OF OPENING; FRAMLESS CONCEALED HINGES; SELF-CLOSING
DRAWER/CABINET PULLS:	WIRE PULL; MC402-96-SS; SATIN STAINLESS STEEL
GROMMETS:	MOCKETT; SG3 - 1 3/4" FLIP TOP GROMMET SET; LIGHT GREY
DRAWER/CABINET LOCKS:	SURFACE MOUNTED KEY OPERATED DEAD BOLT LOCK WITH CYLINDER EXPOSED ON OUTSIDE OF DRAWER/DOOR
DRAWER SLIDES:	KV #8400 FULL EXTENSION DRAWER SLIDES
RECESSED STANDARDS & CLIPS:	KNAPE & VOGT; FLUSH MOUNT; 255 / 256 SERIES; ZINC
Z-CLIPS:	MONARCH Z CLIPS (FRENCH CLEAT); MF 375
COUNTER BRACKET:	RICHELIEU; KOLOSSIS HEAVY-DUTY WORKSTATION BRACKET; #9910152130; WHITE
PVC T-MOLDING (COUNTERTOPS):	WIDTH TO MATCH THICKNESS OF EDGES; TO MATCH PLASTIC LAMINATE
3MM PVC EDGE BANDING:	WIDTH TO MATCH THICKNESS OF EDGES; TO MATCH PLASTIC LAMINATE COLOR

ARCHITECTURAL WOODWORK INFORMATION:

PROVIDE MATERIALS THAT COMPLY WITH THE REQUIREMENTS OF THE AWI QUALITY STANDARD FOR EACH TYPE OF WOODWORK AND QUALITY GRADE SPECIFIED.

HARDBOARD: AHA A135.4

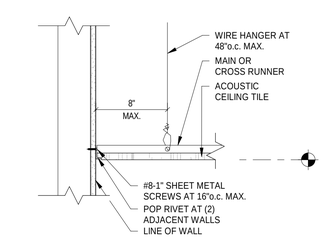
MEDIUM-DENSITY FIBERBOARD: INDUSTRIAL GRADE, MOISTURE-RESISTANT, MEDIUM DENSITY FIBERBOARD ENGINEERED FOR INTERIOR USE IN HIGH-MOISTURE INTERIOR AREAS IN NON-STRUCTURAL APPLICATIONS. ANSI A208.2, GRADE MD.

PARTICLEBOARD: ANSI A208.1, GRADE M-2, M-2 EXTERIOR GLUE AT SINK COUNTERS

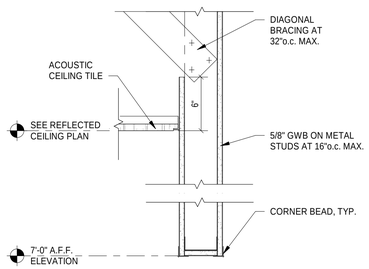
SOFTWOOD PLYWOOD : DOC PS 1, WITH VENEER CORE.

THERMOSET DECORATIVE OVERLAY:PARTICLEBOARD COMPLYING WITH ANSI A208.1, GRADE M-2, OR MEDIUM-DENSITY FIBERBOARD COMPLYING WITH ANSI A208.2, GRADE MD, WITH THE SURFACE OF THERMALLY FUSED, MELAMINE-IMPREGNATED DECORATIVE PAPER.

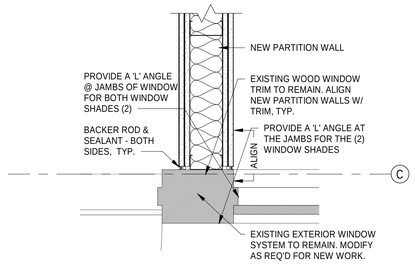
HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD 3, GRADES AS REQUIRED BY WOODWORK QUALITY STANDARD.



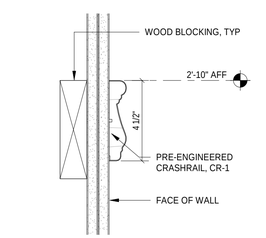
5 A3.0 TYP. STARTER WALL DETAIL
N.T.S.



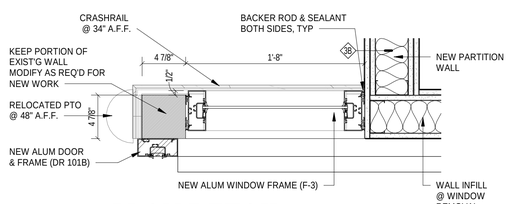
6 A3.0 SOFFIT DTL
1 1/2" = 1'-0"



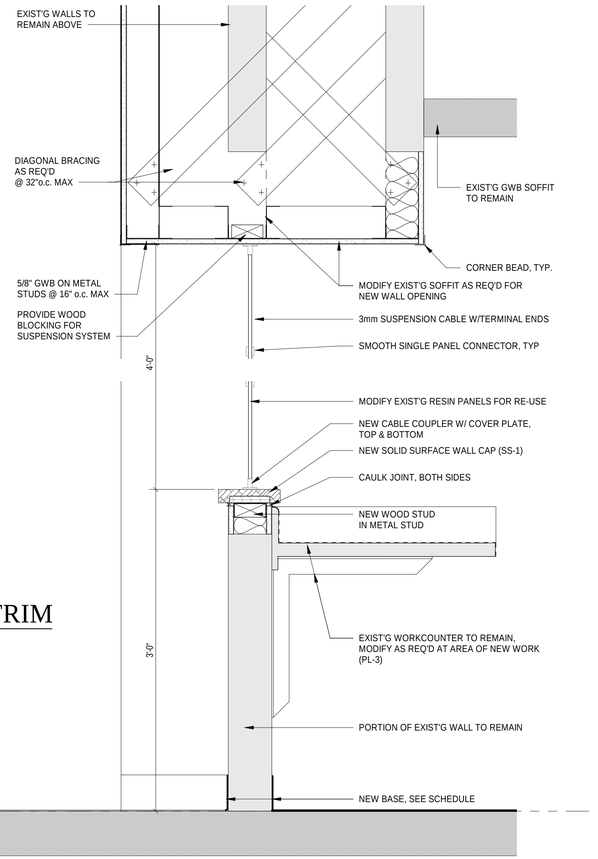
7 A3.0 NEW WALL @ EXIST'G WINDOW TRIM
1 1/2" = 1'-0"



8 A3.0 CRASHRAIL DTL
3" = 1'-0"



9 A3.0 PLAN DETAIL
1 1/2" = 1'-0"



4 A3.0 CHECK-OUT WINDOW DTL
1 1/2" = 1'-0"

QA+M architecture
QuesenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: **2387**

Revisions

Issue Dates:

CONSTRUCTION DOCUMENTS 1/26/2024

MILLWORK DETAILS

A3.0

FINISH SCHEDULE

Room No.	Room Name	FLOORS		WALLS				CEILINGS	MILLWORK		Notes
		Flooring	Base	N	S	E	W	Ceiling	Countertop	Cabinet	
101	VEST	WOC-1	RB-1	P-1	P-1	P-1	P-1	ACT-1			
102	WAITING ROOM	EXIST	RB-1	P-1/P-3	EXIST'G	EXIST'G	EXIST'G	ACT-1			
103	CHECK-IN	LVT-1*	RB-1*	P-1	EXIST'G	EXIST'G	P-1	ACT-1/GWB P-7 (ON ALL SIDES) & P-1	PL-3/SS-1 (AT TRANSACTION TOP)		* PROVIDE NEW FINISHES @ AREA OF NEW WORK / PROTECT EXIST'G FINISHES TO REMAIN
118	CORRIDOR	LVT-1*	RB-1*	EXIST'G	P-1	P-6	P-1	ACT-1			
119	EXAM RM 2	LVT-7 & 8	RB-1	P-4	P-1	P-1	P-1	ACT-1/GWB P-1	PL-2	PL-1	CC-1, RS-1 ON ALL WALLS, TYP.
121	LAB/ BLOOD POC TESTING	SV-1*	RB-1*	EXIST'G	P-1 (EP)/WP-1*	EXIST'G	EXIST'G	EXIST'G	EXIST'G	EXIST'G	* PATCH TO MATCH EXIST'G FINISHES @ AREA OF NEW WORK
172	TRIAGE/EXAM 5	LVT-7 & 8	RB-1	P-4	P-1	P-1	P-1	ACT-1/GWB P-1	PL-2	PL-1	CC-1, RS-1 ON ALL WALLS, TYP.
173	EXAM RM 3	LVT-7 & 8	RB-1	P-4	P-1	P-1	P-1	ACT-1/GWB P-1	PL-2	PL-1	CC-1, RS-1 ON ALL WALLS, TYP.
174	CARE TEAM	LVT-2	RB-1	P-1	P-1	P-1	P-1	ACT-1/GWB P-1	PL-2	PL-1	PNT-6 ON ENTRY WALLS INTO THE ROOM
175	CONSULT	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1			
176	EXAM RM 4	LVT-7 & 8	RB-1	P-1	P-4	P-1	P-1	ACT-1/GWB P-1	PL-2	PL-1	CC-1, RS-1 ON ALL WALLS, TYP.

FINISH LEGEND

LUXURY VINYL TILE
(Mannington Rep: Kevin O'Bryan
Kevin.O'Bryan@mannington.com)

LVT-1: MFR- MANNINGTON
COLLECTION - SPACIA - WOOD
COLOR- WINDSOR OAK SHORE SS5W12373
SIZE- 6" X 36"

LVT-2: MFR- MANNINGTON
COLLECTION - SPACIA - WOOD
COLOR- WINDSOR OAK MOLESKIN SS5W12376
SIZE- 6" X 36"

LVT-3: MFR- MANNINGTON
PRODUCT- DIVERGENT COLLECTION
STYLE- FEN
COLOR- CUMULUS #13506
SIZE- 18" X 18"
LOCATION- WAITING ROOM FIELD

LVT-4: NOT USED

LVT-5: NOT USED

LVT-6: NOT USED

LVT-7: MFR- MANNINGTON
PRODUCT- DIVERGENT COLLECTION
STYLE- STRAND
COLOR- BLUE THISTLE #13574
SIZE- 18" X 18"
LOCATION- CARE ROOM FIELD

LVT-8: MFR- MANNINGTON
PRODUCT- DIVERGENT COLLECTION
STYLE- STRAND
COLOR- CUMULUS #13518
SIZE- 18" X 18"
LOCATION- CLIENT CARE ACCENT

WALK OFF CARPET

WOC-1: J & J
PRODUCT- INCOGNITO WALK-OFF
COLOR- 1837 OPERATIVE
SIZE- 24" X 24"
INSTALLATION- ASHLAR

RUBBER BASE

RB-1: MFR- JOHNSONITE
PRODUCT- 4" RUBBER BASE
COLOR- MOONROCK 29

PAINT

P-1: MFR- SHERWIN WILLIAMS
COLOR- SW7011 NATURAL CHOICE
FINISH- EGGSHELL
LOCATION- FIELD PAINT

P-2: MFR- SHERWIN WILLIAMS
COLOR- SW7019 GAUNTLET GRAY
FINISH- SEMI-GLOSS
LOCATION- DOORFRAMES

P-3: MFR- SHERWIN WILLIAMS
COLOR- 11635 SILVER BLUEBERRY
FINISH- EGGSHELL
LOCATION- BELOW CHAIR RAIL

P-4: MFR- SHERWIN WILLIAMS
COLOR- SW9129 JADE DRAGON
FINISH- EGGSHELL
LOCATION- CLIENT CARE ACCENT

P-5: MFR- SHERWIN WILLIAMS
COLOR- SW9134 DELFT
FINISH- EGGSHELL
LOCATION- ADMINISTRATION ACCENT

P-6: MFR- SHERWIN WILLIAMS
COLOR- SW9074 GENTLE GRAPE
FINISH- EGGSHELL
LOCATION- ACCENT

P-7: MFR- SHERWIN WILLIAMS
COLOR- SW7692 CUPOLA YELLOW
FINISH- EGGSHELL
LOCATION- SOFFIT PAINT

CRASH RAIL
(Acrovyn Rep: Rose Sedgwick
quotes@ssosales.com)

CR-1: MFR- ACROVYN
PRODUCT- CRASH RAIL FR-451N
COLOR- URBANWOOD 654

ALTERNATE #2- CONTRACTOR TO PROVIDE COST FOR PROVIDING NEW CRASHRAILS (CR-1)

RUB STRIP

RS-1: MFR- ACROVYN (RS-60N)
PRODUCT- RUB STRIP .060"
COLOR- #315 GALVESTON GRAY
PROVIDE COLOR MATCH CAULK

WALL PROTECTION

WP-1: MFR- ACROVYN
PRODUCT-RIGID VINYL WALL PROTECTION .040"
COLOR- #315 GALVESTON GRAY
INSTALLATION- 3'-4" A.F.F.

ACOUSTICAL CEILING TILE

ACT-1: MFR- USG
PRODUCT- MARS HIGH NRC (87200) CLASS 'A'
COLOR- FLAT WHITE 050
EDGE- SLT
SIZE- 24" X 24" X 7/8"
CLASS A
GRID- DONN BRAND DX/DXL 15/16" GRID (FLAT WHITE 050)

PLASTIC LAMINATE

PL-1: MFR- FORMICA
COLOR- PLANKED URBAN OAK 9312-NG
LOCATION- CABINETRY

PL-2: MFR- WILSONART
COLOR- SILVER TRAVERTINE 1858K-55
LOCATION- COUNTERTOPS

PL-3: MFR- WILSONART
COLOR- MISTED ZEPHYR 4843-60
LOCATION- CHECK-OUT COUNTERTOP

SOLID SURFACE

SS-1: MFR- PORCELANOSA
PRODUCT- KRION SOLID SURFACE
COLOR- BRIGHT ROCK 9103

CUBICLE CURTAINS

CC-1: OWNER TO PROVIDE/GC TO INSTALL

EDGE BANDING

PL-1: 3MM PVC EDGING TO MATCH PLAM (HW TAN)
(ALL DOOR, DRAWERS, SHELVES & CABINET PARTS)

PL-2: 'T' MOLDING TO BE HW SAND

PL-3: 'T' MOLDING TO BE HW SMOKE

WINDOW SHADES

WS- 1: MFR- DRAPER
PRODUCT- CLUTCH-OPERATED FLEXSHADE
SERIES: 4800 1% OPEN
SHADE FABRIC COLOR- PW4800-V16 GREY
ROLLER FASCIA COLOR - CHARCOAL BRONZE
NOTES- ALL SHADES TO BE MANUALLY OPERATED
PROVIDE 'L' ANGLE @ WINDOW JAMBS

WOOD DOORS

MFR- VT INDUSTRIES ARCHITECTURAL WOOD DOORS
SPECIES- WHITE MAPLE
COLOR- RAVINE RA18

FINISH NOTES:

1. FINISHES NOTED ON THIS SCHEDULE ARE FOR GUIDANCE ONLY AND ARE GENERAL IN NATURE. IT IS NOT THE INTENT TO LIST EACH AND EVERY ITEM. COORDINATE WITH PLANS, INTERIOR ELEVATIONS, FINISH FLOOR PLANS, SPECIFICATIONS ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISHES REQUIRED TO COMPLETE WORK IN ACCORDANCE WITH ALL CONTRACT DOCUMENTS.
2. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED P-2,TYP.
3. FLOORING FINISH CHANGES AT DOORS TO BE AT CENTER LINE OF CLOSED DOOR U.N.O.
4. USE PREFORMED CORNERS FOR ALL RUBBER WALL BASE INSTALLATION.
5. VERIFY EXPANSION JOINT AND CONTROL JOINT LOCATIONS PRIOR TO INSTALLATION OF FLOORING.
6. SCRIBE ALL COUNTERS AND BACKSPLASHES TO WALL. CAULK TO MATCH WALL COLOR.
7. APPLY SELF LEVELING COMPOUND PRIOR TO INSTALLING FLOOR. SLABS MUST BE FREE OF IMPERFECTIONS, INDENTATIONS AND DEBRIS.
8. BRING ALL FLOOR FINISHES WALL TO WALL AND UNDER MILLWORK.
9. PROVIDE REQUIRED BRACING AT WALL HUNG CABINETRY.
10. PROVIDE BLOCKING AT ALL WALL HUNG ACCESSORIES.
11. GYPSUM BOARD FINISH LEVEL 1: PROVIDE LEVEL 1 FINISH AT JOINTS IN THE CEILING PLENUM AREAS AND CONCEALED AREAS.
GYPSUM BOARD FINISH LEVEL 4: PROVIDE LEVEL 4 FINISH WHERE WALLS ARE SCHEDULED TO RECEIVE PAINT.
12. ALL GWB CEILINGS AND SOFFITS TO BE PAINTED SHERWIN WILLIAMS CEILING WHITE, U.N.O.
13. PAINT ALL WOOD WINDOW TRIM TO MATCH DOOR FRAMES P-2 (EGGSHELL FINISH), TYP.

FINISH LEGEND

LUXURY VINYL TILE
LVT-1

LUXURY VINYL TILE
LVT-2

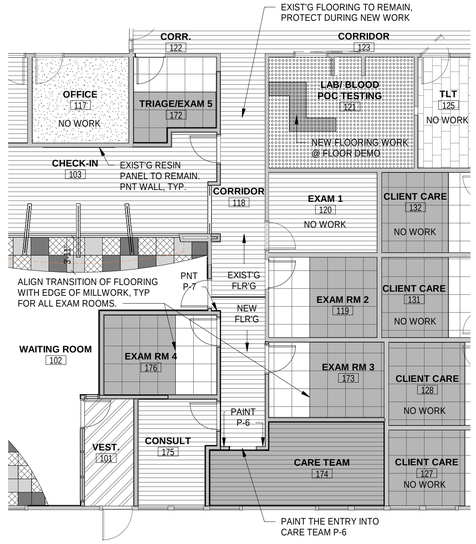
LUXURY VINYL TILE
LVT-3

LUXURY VINYL TILE
LVT-4, 5,& 6 NOT USED

LUXURY VINYL TILE
LVT-7

LUXURY VINYL TILE
LVT-8

WALK OFF CARPET TILE
WOC-1



FINISHES FLOOR PLAN

1 / A4.0 — 1/8" = 1'-0"

QA+M architecture
QuesenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

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Revisions

Issue Dates:

N

CONSTRUCTION DOCUMENTS
1/26/2024

FINISH SCHEDULE & FLOOR FINISHES

A4.0

SECTION 01 77 00 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:

1. Inspection procedures.
2. Project Record Documents.
3. Operation and maintenance manuals.
4. Warranties.
5. Instruction of Owner's personnel.
6. Final cleaning.

B. Related Sections include the following:

1. Division 1 Section "Payment Procedures" for requirements for Applications for Payment for Substantial and Final Completion.
2. Division 1 Section "Execution Requirements" for progress cleaning of Project site.
3. Divisions 2 through 49 Sections for specific closeout and special cleaning requirements for products of those Sections.

1.3 SUBSTANTIAL COMPLETION

A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion, complete the following. List items below that are incomplete in request.

1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
2. Advise Owner of pending insurance changeover requirements.
3. Submit specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
4. Obtain and submit releases permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
5. Prepare and submit Project Record Documents, operation and maintenance manuals, damage or settlement surveys, and similar final record information.
6. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
7. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
8. Complete startup testing of systems.
9. Submit test/adjust/balance records.
10. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
11. Advise Owner of changeover in heat and other utilities.
12. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
13. Complete final cleaning requirements, including touchup painting.
14. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.

B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
2. Results of completed inspection will form the basis of requirements for Final Completion.

1.4 FINAL COMPLETION

A. Preliminary Procedures: Before requesting final inspection for determining date of Final Completion, complete the following:

1. Submit a final Application for Payment according to Division 1 Section "Payment Procedures."
2. Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
3. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
4. Submit pest-control final inspection report and warranty.
5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.

B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.5 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Preparation: Submit three copies of list. Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
3. Include the following information at the top of each page:
    a. Project name.
    b. Date.
    c. Name of Architect.
    d. Name of Contractor.
    e. Page number.

1.6 PROJECT RECORD DOCUMENTS

A. Record Documents, General: Do not use Record Documents for construction purposes. Protect Record Documents from deterioration and loss. Provide access to Record Documents for Architect's reference during normal working hours.

B. Record Drawings: Maintain and submit one set of blue- or black-line white prints of Contract Drawings and Shop Drawings.

1. Mark Record Prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to prepare the marked-up Record Prints.
    a. Give particular attention to information on concealed elements that cannot be readily identified and recorded later.
    b. Accurately record information in an understandable drawing technique.
    c. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
    d. Mark Contract Drawings or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. Where Shop Drawings are marked, show cross-reference on Contract Drawings.
2. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at the same location.
3. Mark important additional information that was either shown schematically or omitted from original Drawings.
4. Note Construction Change Directive numbers, Change Order numbers, alternate numbers, and similar identification where applicable.
5. Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location. Organize into manageable sets; bind each set with durable paper cover sheets. Include identification on cover sheets.

C. Record Specifications: Submit one copy of Project's Specifications, including addenda and contract modifications. Mark copy to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
3. Note related Change Orders, Record Drawings, and Product Data, where applicable.

Consider deleting Record Product Data below on small projects. If Change Order proposals include resubmitting updated Product Data, the need to mark up the previous submittal is eliminated.

D. Record Product Data: Submit one copy of each Product Data submittal. Mark one set to indicate the actual product installation where installation varies substantially from that indicated in Product Data.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
3. Note related Change Orders, Record Drawings, and Record Specifications, where applicable.

E. Miscellaneous Record Submittals: Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.

1.7 OPERATION AND MAINTENANCE MANUALS

A. Assemble three (3) complete sets of operation and maintenance data on a flash drive or compact disc indicating the operation and maintenance of each system, subsystem, and piece of equipment not part of a system. Include operation and maintenance data required in individual Specification Sections and as follows:

1. General:
    a. Table of Contents.
    b. Directory of Contractor and subcontractors listing addresses, phone numbers and appropriate emergency phone numbers.
    c. Directory of Architect and consultants listing addresses and phone numbers.
    d. Measurements: Provide all measurements in U. S. standard units with conversions to "International System of Units" (SI).
    e. Abbreviations: Provide a complete glossary of all abbreviations used in manuals.
2. Operation Data:
    a. Emergency instructions and procedures.
    b. System, subsystem, and equipment descriptions, including operating standards.
    c. Operating procedures, including startup, shutdown, seasonal, and weekend operations.
    d. Color coded wiring diagrams for each piece of equipment installed.
    e. Panelboard circuit directories.
    f. Description of controls and sequence of operations.
    g. Piping diagrams.
3. Maintenance Data:
    a. Manufacturer's information.
    b. Name, address, and telephone number of Installer or supplier.
    c. Maintenance requirements, drawings and parts lists, procedures and guides including trouble shooting guides and instructions for disassembly, repair, balancing, alignment, adjustments, and reassembly.
    d. Maintenance and service schedules for preventive and routine maintenance.
    e. Maintenance record forms.
    f. Sources of spare parts and maintenance materials.
    g. Final air and water test and balancing reports.
    h. Copies of maintenance service agreements.
    i. Copies of warranties and bonds.

B. Organize operation and maintenance manuals into suitable sets of manageable size. Provide written tables of contents each form of electronic media submitted.
for Bind and index data in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, with pocket inside the covers to receive folded oversized sheets.

C. Identify each media device on front and spine with the printed title "OPERATION AND MAINTENANCE MANUAL," Project name, and subject matter of contents.

D. Submit one (1) complete set of operation and maintenance data in final form 21 days prior to Date of Substantial Completion for review. Architect will review and comment and return subsequent to Date of Substantial Completion. Revise and submit all copies to Owner.

1.8 WARRANTIES

A. Submittal Time: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated.

B. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.

C. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
Revise first subparagraph below to suit Project.

1. Bind warranties and bonds in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch (115-by-280-mm) paper.
2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.

D. Provide additional electronic media copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 DEMONSTRATION AND TRAINING

A. Instruction: Instruct Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.

1. Provide instructors experienced in operation and maintenance procedures.
2. Provide instruction at mutually agreed-on times. For equipment that requires seasonal operation, provide similar instruction at the start of each season.
3. Schedule training with Owner with at least seven days' advance notice.
4. Coordinate instructors, including providing notification of dates, times, length of instruction, and course content.

3.2 FINAL CLEANING

A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.

1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
    a. Clean Project site in areas disturbed by construction activities of rubbish, waste material, litter, and other foreign substances.
    b. Remove tools, construction equipment, machinery, and surplus material from Project site.
    c. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, spills, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
    d. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
    e. Sweep concrete floors broom clean in unoccupied spaces.
    f. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
    g. Remove labels that are not permanent.
    h. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
        1) Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
    i. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
    j. Replace parts subject to unusual operating conditions.
    k. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
    l. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
    m. Clean ducts, blowers, and coils if units were operated without filters during construction.
    n. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. Replace burned-out bulbs, and those noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.
    o. Leave Project clean and ready for occupancy.

C. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from Project site and dispose of lawfully.

END OF SECTION 01 77 00

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
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Revisions

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N

CONSTRUCTION DOCUMENTS
1/26/2024

SPECIFICATIONS

A5.0

FIRE PROTECTION DEMOLITION NOTES

THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

A. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.

B. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND NOT ALL PIPING AND DEVICES ARE SHOWN. THE INTENT OF THE DOCUMENTS IS THAT PIPING IS TO BE REMOVED IN RENOVATED AREA AS NOTED AND AS REQUIRED.

C. REMOVE SPRINKLERS WITH ASSOCIATED BRANCH PIPING, HANGERS, ETC. AS NECESSARY.

D. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY AND CAPPED WITHOUT LEAVING ANY DEAD ENDED PIPING OR ABANDONED PIPING. SECURE IN PLACE.

E. NO FIRE PROTECTION EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED OR ABANDONED SHALL REMAIN.

F. IT IS THE INTENT OF THESE DOCUMENTS THAT ANY AND ALL DEVICES REMOVED SHALL NOT BE REUSED, BUT ONLY NEW SHALL BE INSTALLED.

G. ANY SYSTEM OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.

H. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK.

I. THE FIRE MARSHAL AND/OR THE INSURANCE UNDERWRITER SHALL BE CONTACTED TO REVIEW AND APPROVE THE EXTENT OR PHASING OF THE FIRE PROTECTION DEMOLITION IN ORDER TO PROTECT THE OCCUPANTS AND PROPERTY. THESE DOCUMENTS DO NOT ADDRESS THE PHASING OF THE SYSTEM REMOVAL, ONLY THE EXTENT.

J. REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

FIRE PROTECTION GENERAL NOTES

THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

A. THESE GENERAL NOTES ARE APPLICABLE TO ALL FIRE PROTECTION DRAWINGS.

B. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL INTENT OF WORK. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS AND SHOP DRAWINGS. THE SCOPE OF WORK IN THIS RENOVATION IS TO REUSE EXISTING WET SPRINKLER SYSTEM PIPING TO THE FULLEST EXTENT POSSIBLE AND TO PROVIDE NEW SPRINKLERS FOR THE NEW CEILING LAYOUT, INCLUDING ALL ASSOCIATED PIPING, FITTINGS, HANGERS, VALVES, ETC AS NECESSARY AND AS REQUIRED BY CODE.

D. SPRINKLERS IN FINISHED CEILING AREAS SHALL ALWAYS BE LOCATED IN THE CENTER OF CEILING TILES IN BOTH DIRECTIONS UNLESS INDICATED OTHERWISE.

E. REVIEW THE ARCHITECTURAL REFLECTED CEILING PLANS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION, SUCH AS CEILING HEIGHTS, TYPES, SOFFITS AND OR OTHER DEVICE LOCATIONS.

F. REVIEW THE ELECTRICAL DIVISION DRAWINGS AND COORDINATE THE FIRE PROTECTION WORK WITH LOCATIONS OF LIGHTS, AND CEILING MOUNTED DEVICES WHICH MAY INTERFERE WITH SPRINKLER LOCATIONS OR SPRAY PATTERNS.

G. REVIEW THE HVAC DIVISION DRAWINGS AND COORDINATE THE FIRE PROTECTION WORK WITH LOCATIONS OF CEILING MOUNTED DEVICES SUCH AS DIFFUSERS, GRILLS, REGISTERS, LOCATIONS OF HEAT PRODUCING EQUIPMENT AND DUCTWORK REQUIRING SPRINKLER PROTECTION BELOW IT.

FIRE PROTECTION SYMBOLS

○	NEW CONCEALED SPRINKLER
●	NEW PENDENT SPRINKLER
×	NEW UPRIGHT SPRINKLER
◎	NEW DRY PIPE SPRINKLER
▼	NEW DRY SIDEWALL SPRINKLER
▽	NEW WET SIDEWALL SPRINKLER
⊗	NEW PENDENT SPRINKLER WITH SPRIG UPRIGHT
◎E	EXISTING SPRINKLER TO REMAIN
×E	EXISTING UPRIGHT SPRINKLER TO REMAIN
▽E	EXISTING SIDEWALL SPRINKLER TO REMAIN
◎R	EXISTING SPRINKLER TO BE REMOVED
×R	EXISTING UPRIGHT SPRINKLER TO BE REMOVED
▽R	EXISTING SIDEWALL SPRINKLER TO BE REMOVED
(A)	ALARM CHECK VALVE RISER ASSEMBLY
(D)	DRY PIPE VALVE RISER ASSEMBLY
(PA)	PREACTION VALVE RISER ASSEMBLY
(FS)	SPRINKLER FLOW SWITCH
(PS)	PRESSURE SWITCH
(LPS)	LOW PRESSURE SWITCH
(SS)	SUPERVISORY SWITCH (TAMPER SWITCH)
	ANGLE HOSE VALVE W/CAP & CHAIN
PRV	PRESSURE REGULATING ANGLE HOSE VALVE
	PRESSURE RELIEF VALVE
(SS)	OS&Y VALVE (SUPERVISED)
(SS)	BUTTERFLY VALVE (SUPERVISED)
	CHECK VALVE
(SS) (SS)	BACKFLOW PREVENTER ASSEMBLY (DCVA) WITH SHUTOFF VALVES
	BACKFLOW PREVENTER ASSEMBLY (RPD) WITH SHUTOFF VALVES
X	PRESSURE REGULATING VALVE (X = PSI SETTING)
(SS)	POST INDICATOR VALVE (SUPERVISED)
FDC	POST MOUNTED FIRE DEPARTMENT CONNECTION (REFER TO SPECIFICATIONS FOR TYPE)
FDC	WALL MOUNTED FIRE DEPARTMENT CONNECTION (REFER TO SPECIFICATIONS FOR TYPE)
	FIRE PUMP TEST HEADER (REFER TO SPECIFICATIONS FOR TYPE)
	PUMP
	PRESSURE GAUGE
	ELECTRIC ALARM BELL
ATS	AUTOMATIC TRANSFER SWITCH
FPC	FIRE PUMP CONTROLLER
JPC	JOCKEY PUMP CONTROLLER
PAC	PREACTION ALARM ASSEMBLY CABINET
RAP	REMOTE ALARM PANEL
	CONNECT TO EXISTING
FCVA	FLOOR CONTROL VALVE ASSEMBLY
FVC	FIRE VALVE CABINET
S	SMOKE DETECTOR
H	HEAT DETECTOR

FIRE PROTECTION ABBREVIATIONS

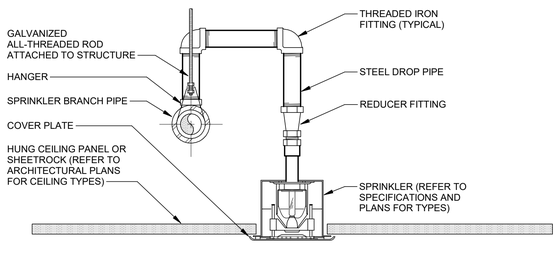
ACV	ALARM CHECK VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
CTE	CONNECT TO EXISTING
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DPV	DRY PIPE VALVE
EC	EXTENDED COVERAGE
EL	ELEVATION
ETR	EXISTING TO REMAIN
EX	EXISTING
FCVA	FLOOR CONTROL VALVE ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FPC	FIRE PUMP CONTROLLER
FPTH	FIRE PUMP TEST HEADER
FS	FLOW SWITCH
FSP	FIRE STANDPIPE
FVC	FIRE VALVE CABINET
G	CAGE GUARD
GPM	GALLONS PER MINUTE
HD	HEAT DETECTOR
HT	HIGH TEMPERATURE
IT	INTERMEDIATE TEMPERATURE
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
LPS	LOW PRESSURE SWITCH
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
PA	PREACTION
PAC	PREACTION ALARM VALVE CABINET
PIV	POST INDICATOR VALVE
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
RCV	RISER CONTROL VALVE
RPD	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
RR	REMOVE & RELOCATE
SP	SPRINKLER
SS	SUPERVISORY SWITCH
TYP	TYPICAL
UG	UNDERGROUND
VIF	VERIFY IN FIELD

FIRE PROTECTION PIPING LEGEND

	FLOW DIRECTION
F	FIRE LINE
F	FIRE SERVICE BURIED
SP	WET SPRINKLER SYSTEM
DRY	DRY PIPE SPRINKLER SYSTEM
D	DRAIN PIPING
FDC	FIRE DEPARTMENT CONNECTION PIPING
FPTH	FIRE PUMP TEST HEADER PIPING
PA	PREACTION SPRINKLER SYSTEM
	EXISTING PIPING OR EQUIPMENT
	REMOVE EXISTING PIPING OR EQUIPMENT
	PIPE DOWN
	PIPE UP
	PIPE DROP
	CAPPED PIPE

LEGEND NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.



1 SPRINKLER PIPED RETURN BEND DETAIL
SCALE: NOT TO SCALE

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina

PROJECT NO.: 2023088.00

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: 2387

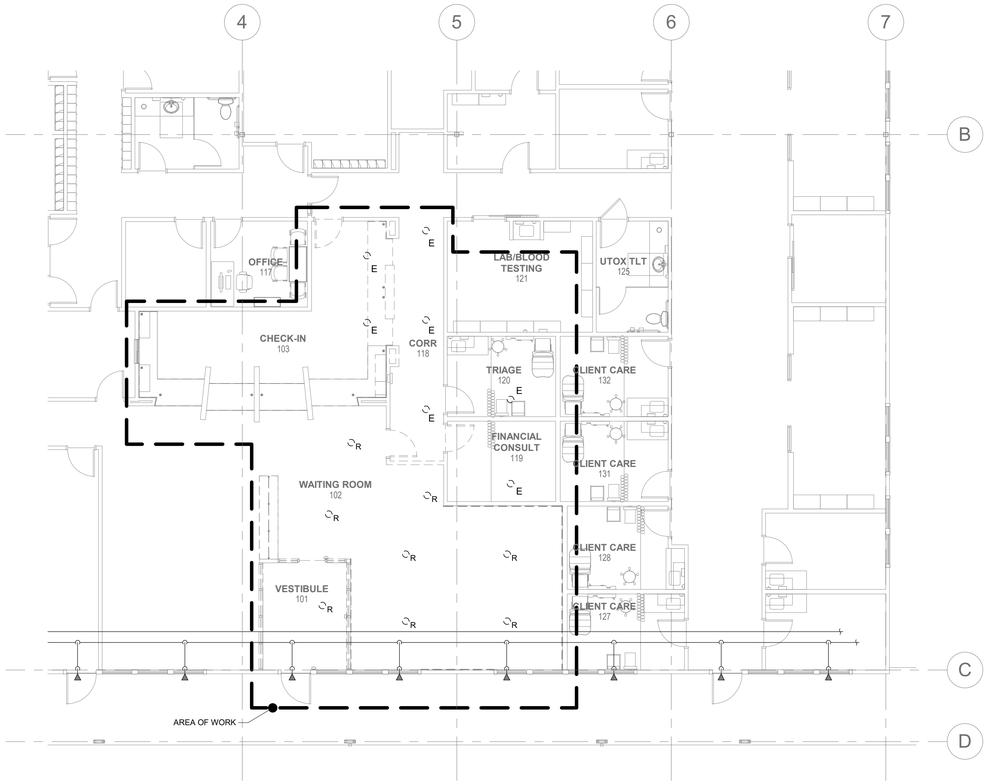
Revisions

Issue Dates:

CONSTRUCTION DOCUMENTS
01/26/2024

FIRE PROTECTION LEGENDS, DETAILS & NOTES

FP001



1 FIRE PROTECTION DEMOLITION PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
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PROJECT NO.: 2023088.00

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: **2387**

Revisions

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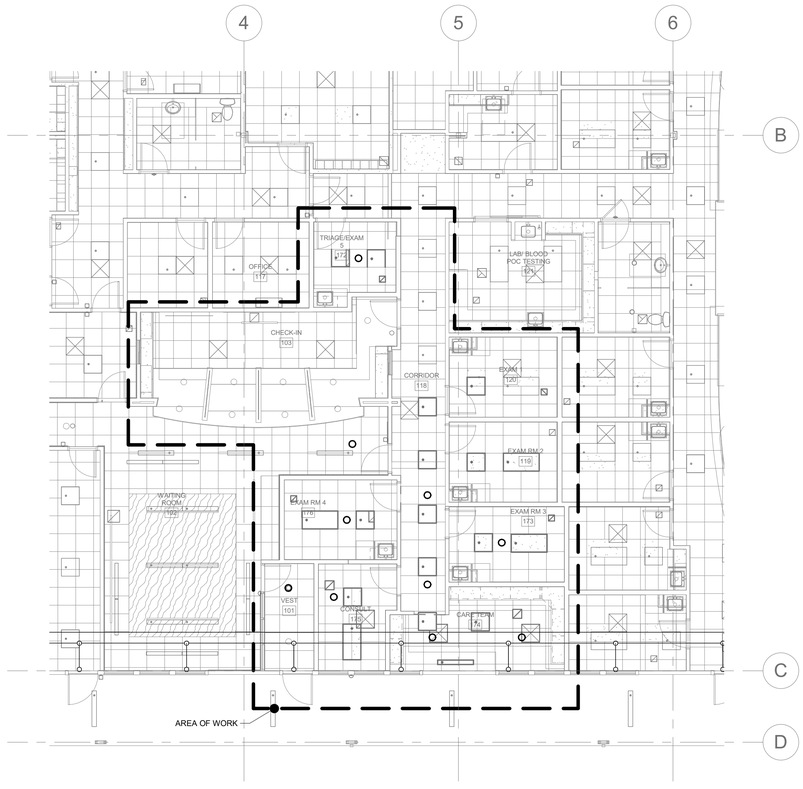
01/26/2024

FIRE PROTECTION DEMOLITION PARTIAL FIRST FLOOR PLAN

FPD101



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01/26/2024

FIRE PROTECTION NEW WORK PARTIAL FIRST FLOOR PLAN

FP101

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FIRE PROTECTION SPECIFICATION

PART 1 - GENERAL

1.1 GENERAL

A. ARCHITECT'S GENERAL CONDITIONS ARE A PART OF THIS DIVISION. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH CURRENT ACCEPTED EDITION OF NFPA #13, STATE BUILDING CODE, THE INSURANCE UNDERWRITER - (FM) AND THE LOCAL FIRE MARSHAL. THE FIRE PROTECTION CONTRACTOR SHALL BEAR THE COST OF ALL FEES, PERMITS, LICENSES, TAXES AND ANY CHARGES IN CONNECTION WITH HIS WORK.

B. AIA DOCUMENT A201-2007 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" IS HEREBY MADE PART OF THESE SPECIFICATIONS.

1.2 SCOPE

A. DEMOLITION:

1. EXISTING PIPING SHALL BE RE-USED TO THE FULLEST EXTENT POSSIBLE IN THE RENOVATION AREA. THIS MEANS EXISTING MAINS AND BRANCH MAINS ONLY. WHERE EXISTING SPRINKLERS ARE REMOVED, THE BRANCH PIPING SHALL BE REMOVED WITH IT. REMOVE ANY PIPING THAT IS IN CONFLICT WITH NEW CONSTRUCTION.

2. EXISTING SPRINKLERS, PIPING, ETC. SHALL NOT BE REUSED UNLESS SO INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PROPERLY DISPOSE OF REMOVED MATERIAL.

3. VERIFY WITH OWNER AND LOCAL AUTHORITY HAVING JURISDICTION ANY TEMPORARY FIRE PROTECTION REQUIRED DURING DEMOLITION OF EXISTING ACTIVE SPRINKLER SYSTEM PIPING IN AN OCCUPIED BUILDING. THE EXISTING SPRINKLER SYSTEM SHALL REMAIN ACTIVE TO THE FULLEST EXTENT POSSIBLE DURING DEMOLITION AND CONSTRUCTION.

B. NEW WORK:

1. PROVIDE NEW SPRINKLERS AS SHOWN ON DRAWINGS WITH NEW BRANCH PIPING, FITTINGS, HANGERS, ETC AS REQUIRED AND AS NECESSARY TO PROVIDE A CODE COMPLIANT SPRINKLER SYSTEM FOR THE RENOVATION. INSTALL RETURN BENDS IN PIPE DROPS FOR CENTER OF TILE LOCATIONS IN NEW FINISH CEILING AREAS.

2. VERIFY WITH OWNER AND LOCAL AUTHORITY HAVING JURISDICTION ANY TEMPORARY FIRE PROTECTION REQUIRED DURING RENOVATIONS AND MODIFICATIONS TO THE EXISTING ACTIVE SPRINKLER SYSTEM PIPING IN AN OCCUPIED BUILDING. THE EXISTING SPRINKLER SYSTEM SHALL REMAIN ACTIVE TO THE FULLEST EXTENT POSSIBLE DURING DEMOLITION AND CONSTRUCTION.

4. PROVIDE COMPLETE LIGHT HAZARD/ORDINARY HAZARD SPRINKLER COVERAGE THROUGHOUT THE RENOVATION. LIGHT HAZARD COVERAGE SHALL BE PROVIDED IN OFFICE AREAS, CORRIDORS, LOBBY, ETC. PER NFPA 13 STANDARDS AND SHALL BE DESIGNED TO PROVIDE MINIMUM 0.15 GPM/1500 SQUARE FEET. ORDINARY HAZARD COVERAGE SHALL BE PROVIDED IN ANY MECHANICAL ROOMS, STORAGE ROOMS, JANITOR ROOMS, ETC. PER NFPA 13 STANDARDS AND SHALL BE DESIGNED TO PROVIDE MINIMUM 0.19 GPM/2000 SQUARE FEET. NEW SPRINKLERS SHALL BE QUICK RESPONSE, CONCEALED TYPE IN ALL FINISHED CEILING AREAS. VERIFY ANY SPECIAL AND/OR MORE STRINGENT REQUIREMENTS WITH THE OWNER'S INSURANCE UNDERWRITER.

C. WORK BY OTHERS:

1. THE GENERAL CONTRACTOR SHALL PROVIDE ALL CHASES, OPENINGS, CUTTING, PATCHING, PAINTING AND FINISH WORK.

2. ALL EXISTING AND NEW SPRINKLER PIPING IN THE RENOVATION AREA SHALL BE PAINTED RED PER PRATT & WHITNEY STANDARDS.

1.3 FIELD MEASUREMENTS

A. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH THE PROJECT AND LOCAL CONDITIONS BEFORE SUBMITTING BID. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS MADE THEREOF. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.

1.4 SUBMITTALS

A. SIX (6) COPIES OF HYDRAULIC CALCULATIONS AND SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER, ARCHITECT, LOCAL AUTHORITY HAVING JURISDICTION AND OWNER'S INSURANCE UNDERWRITER FOR APPROVAL BEFORE BEGINNING INSTALLATION. THE CONTRACTOR SHALL PREPARE THEIR OWN DRAWINGS GIVING THE FOLLOWING INFORMATION: LOCATION OF ALL PERTINENT MECHANICAL AND ELECTRICAL EQUIPMENT; FULL-HEIGHT CROSS SECTIONS AS REQUIRED; MAKE AND TYPE OF SPRINKLERS AND TEMPERATURE RATINGS; ALL FITTINGS AND SIZES; TYPE OF HANGERS, INSERTS AND SLEEVES; ALL DRAWINGS AND TEST PIPES: CUTTING LENGTHS AND SIZES OF PIPE LINES.

B. THE HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SHALL BE STAMPED AND SEALED BY A REGISTERED FIRE PROTECTION ENGINEER BEARING A LICENSE IN THE SAME STATE AS THE WORK BEING PERFORMED. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON FLOW TEST DATA THAT IS DATED WITHIN 12 MONTHS OF DESIGN PER NFPA STANDARDS.

1.5 RECORD DRAWINGS

A. NEATLY AND ACCURATELY RECORD ALL CHANGES FROM CONTRACT DOCUMENTS ON RECORD SET OF PRINTS FURNISHED BY THE ENGINEER. THESE RECORD "AS-BUILT" DRAWINGS SHALL INCLUDE LOCATIONS OF SPECIFIC ITEMS AS LISTED IN THE VARIOUS SPECIFICATION DIVISIONS. UPON PROJECT COMPLETION, FURNISH DRAWINGS TO THE ENGINEER.

1.6 DEFINITION

A. AS USED ON CONTRACT DOCUMENTS, THE TERM "TO PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM OR MATERIAL DESCRIBED."

1.7 GUARANTEE

A. MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL HAVE STANDARD WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. ANY FAILURE DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR DESIGN SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THE CONTRACTOR, INCLUDING ANY DAMAGE DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE. GUARANTEE PERIOD SHALL EXTEND FOR ONE YEAR FROM THE DATE OF ACCEPTANCE.

1.8 COORDINATION

A. THE FIRE PROTECTION CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS AND SPECIFICATIONS OF OTHER TRADES. IF SO DIRECTED BY THE ARCHITECT OR THE ENGINEER, THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT TO PREVENT CONFLICT WITH THOSE OF OTHER TRADES AND FOR PROPER INSTALLATION OF WORK. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

1.9 INSURANCE

A. FURNISH INSURANCE CERTIFICATES REQUIRED BY THE OWNER.

1.10 PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS

A. OBTAIN AND PAY FOR PERMITS, INSPECTIONS, LICENSES AND CERTIFICATES REQUIRED. EQUIPMENT, MATERIALS AND COMPONENTS LISTED IN UL PRODUCT DIRECTORIES, SHALL BEAR UL LABELS.

1.11 OPERATING AND MAINTENANCE INSTRUCTIONS

A. INSTRUCT OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF SYSTEMS.

B. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THREE (3) SETS OF COMPLETE MAINTENANCE AND OPERATING INSTRUCTIONS AND TECHNICAL DATA, IN BOOKLET FORM, OF ALL EQUIPMENT AND DEVICES FURNISHED IN THE CONTRACT.

1.12 ARRANGEMENT OF WORK

A. WORK SHALL BE COORDINATED BETWEEN TRADES TO PREVENT UNNECESSARY INTERFERENCE. WORK SHALL PRESENT A NEAT COORDINATED APPEARANCE. INSTALL WORK AS NECESSARY TO PROVIDE MAXIMUM POSSIBLE HEADROOM, ADEQUATE CLEARANCE AND READY ACCESS FOR INSPECTION, OPERATION, SAFE MAINTENANCE AND REPAIR AND CODE CONFORMANCE. WHERE SPACE APPEARS INADEQUATE, CONSULT THE OWNER BEFORE PROCEEDING WITH INSTALLATION.

1.13 WORKMANSHIP

A. EQUIPMENT AND MATERIALS SHALL BE NEW, OF FIRST-CLASS QUALITY, SELECTED AND ARRANGED TO FIT PROPERLY INTO SPACES INDICATED. INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1.14 COORDINATION WITH OWNER

A. ALL WORK SHALL BE SCHEDULED WITH THE OWNER. INTERRUPTIONS IN THE OWNER'S ACCESS TO THE SITE SHALL BE SUBJECT TO OWNER LIMITATIONS OF DATE AND DURATION.

1.15 OPERATION OF SERVICES AND UTILITIES

A. SHUTDOWN OF EXISTING SERVICES AND UTILITIES SHALL, WITHOUT EXCEPTION,BE COORDINATED WITH THE PROPER UTILITY AND WITH THE OWNER AS TO DATE, TIME OF DAY, AND DURATION BEFORE ANY SERVICE IS INTERRUPTED. NOTIFY THE OWNER OF ESTIMATED DURATION OF SHUTDOWN PERIOD AT LEAST TEN DAYS IN ADVANCE OF PROPOSED SHUTDOWN.

1.16 PROTECTION

A. CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIAL OR DAMAGING WATER. PROTECT EXISTING PROPERTY, EQUIPMENT AND FINISHES FROM DAMAGE. REPAIR, TO ORIGINAL CONDITION, EXISTING PROPERTY THAT HAS BEEN DAMAGED DURING EXECUTION OF THE WORK.

1.17 CLEANING

A. WORK SITE MUST BE KEPT CLEAN. RUBBISH, DEBRIS AND LEFTOVER OR EXCESS MATERIALS SHALL BE REMOVED DAILY.

1.18 PAINTING

A. VERIFY ANY PAINTING REQUIREMENTS WITH OWNER. PIPING SHALL BE PAINTED PER PRATT & WHITNEY STANDARDS. SPRINKLERS SHALL HAVE STANDARD MANUFACTURER'S FINISH ONLY AND SHALL NOT BE PAINTED.

1.19 CUTTING AND PATCHING

A. AREAS DISTURBED BY NEW CONSTRUCTION OR DEMOLITION SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING CONDITIONS. PATCH PAINTING OF CEILINGS SHALL INCLUDE PAINTING OF THE ENTIRE CEILING OF ROOM INVOLVED. PATCH PAINTING OF OTHER SURFACES SHALL BE TO NEAREST CUT-OFF POINT.

1.20 WATERPROOFING

A. PROVIDE NECESSARY SLEEVES, CAULKING AND FLASHING REQUIRED TO MAKE OPENINGS WATERPROOF.

1.21 FIREPROOFING

A. AT CLOSING OF EACH WORKING DAY, PROVIDE TEMPORARY FIRESTOPPING IN EVERY OPENING CUT BETWEEN FLOORS AND THROUGH FIRE-RATED PARTITIONS. PERMANENT FIRESTOPS SHALL BE PROVIDED AROUND SLEEVES AND AT OTHER PERMANENT OPENINGS THROUGH FIRE-RATED PARTITIONS AND FLOORS, AS REQUIRED. MATERIALS USED FOR FIRESTOPPING SHALL BE CLASS A "NONCOMBUSTIBLE" WITH FIRESTOPPING CAPABILITIES EQUAL TO THAT OF ADJACENT CONSTRUCTION.

1.22 SUPPORTS

A. PROVIDE NECESSARY SUPPORTS AS REQUIRED. PIPING AND EQUIPMENT SHALL BE SECURELY ATTACHED TO BUILDING STRUCTURE IN ACCEPTABLE MANNER. ATTACHMENTS SHALL BE OF STRONG AND DURABLE NATURE AND COMPLY WITH ALL CODE REQUIREMENTS.

1.23 ACCESS

A. PROVIDE ADEQUATELY SIZED ACCESS DOORS, FOR ACCESS TO ANY CONCEALED EQUIPMENT AND COMPONENTS REQUIRING SERVICING OR INSPECTION. DOORS SHALL HAVE FIRE RATINGS EQUAL TO CONSTRUCTION IN WHICH THEY ARE LOCATED.

1.24 TESTS

A. PERFORM TESTS REQUIRED BY THE OWNER, LEGAL AUTHORITIES AND AGENCIES. CORRECT ANY AND ALL DEFECTS APPEARING DURING TESTS, AND REPEAT TESTS UNTIL NO DEFECTS ARE DISCLOSED. FINAL TESTS SHALL BE MADE IN THE OWNER'S PRESENCE.

1.25 SEISMIC REQUIREMENTS

A. SUBMIT SIX (6) COPIES OF A FINAL INSPECTION REPORT WHICH INCLUDES: SEALED CERTIFICATION BY A STRUCTURAL ENGINEER WITH P.E. REGISTRATION IN THE STATE IN WHICH THE PROJECT IS LOCATED.

1. ENGINEER HAS REVIEWED THE PROJECT.

2. ENGINEER HAS APPROVED THE USE OF THE DEVICES FOR THE PARTICULAR APPLICATIONS.

3. THE DEVICES SATISFY SPECIFICATION – AND CODE – MANDATED SEISMIC CRITERIA.

B. APPLICATION OF SEISMIC RESTRAINT REQUIREMENTS IS GOVERNED BY THE CURRENTLY ADOPTED STATE OF CONNECTICUT BUILDING CODE WITH REFERENCE TO A.S.C.E. 7-05, SECTION 9.6. REFER TO ARCHITECTS CODE SHEET FOR THE SEISMIC DESIGN CATEGORY FOR THIS PROJECT.

C. SEISMIC RESTRAINT FOR ALL TRADES SHALL BE PROVIDED AS REQUIRED BY CODE, BASED ON THE BUILDING SEISMIC DESIGN CATEGORY AND MATERIAL IMPORTANCE FACTORS.

PART 2 - PRODUCTS

2.1 PIPING

A. ABOVE-GRADE PIPING 2-1/2" AND LARGER SHALL BE BLACK STEEL SCHEDULE #10 PIPE WITH MALLEABLE IRON GROOVED PIPE JOINTS AND FITTINGS RATED FOR 175 PSI WORKING PRESSURE.

B. PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH 125 LBS. CAST IRON THREADED FITTINGS AND JOINTS.

C. ALL PIPING SHALL BE ADEQUATELY SUPPORTED BY USING ADJUSTABLE SWIVEL RING AND ROUND IRON ROD TYPE HANGERS. MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE 12'-0" ON CENTER.

2.2 VALVES

A. VALVES SHALL BE AS MANUFACTURED BY NIBCO, OR ACCEPTABLE EQUIVALENT. PROVIDE UL LISTED AND FM RATED FIRE PROTECTION VALVES.

2.3 SPRINKLERS

A. SPRINKLERS LOCATED IN ANY FINISHED CEILING AREAS SHALL BE RELIABLE MODEL #G4A CONCEALED TYPE WITH WHITE COVERPLATES OR ACCEPTABLE EQUIVALENT BY GRINNELL OR VIKING. RESPONSE AND TEMPERATURE RATING SHALL MATCH EXISTING SPRINKLERS.

PART 3 - EXECUTION

3.1 INSTALLATION:

A. PIPING IS TO RUN CONCEALED IN ALL FINISHED AREAS WHERE POSSIBLE AND SO ARRANGED THAT ALL PORTIONS CAN BE DRAINED.

3.2 TESTS

A. TEST ALL NEW SPRINKLER SYSTEM PIPING AT 200 PSI WITH WATER FOR TWO HOURS.

B. TEST ALL FLOW AND SUPERVISORY SWITCHES FOR PROPER OPERATION.

END OF SECTION

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

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FIRE PROTECTION SPECIFICATIONS

FP601

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A, CA	COMPRESSED AIR	MEDGAS, MG	MEDICAL GAS
AD	AREAWAY DRAIN	MEP	MECHANICAL, ELECTRICAL & PLUMBING
AFF	ABOVE FINISHED FLOOR	MGAAP	MEDICAL GAS AREA ALARM PANEL
AFG	ABOVE FINISHED GRADE	MGC	MASTER GAS CONTROL
AHU	AIR HANDLING UNIT	MGLAP	MEDICAL GAS LOCAL ALARM PANEL
AN	ACID NEUTRALIZATION TANK	MGMAP	MEDICAL GAS METER PANEL
AV	ACID VENT	MGVB	MEDICAL GAS VALVE BOX
AVTR	ACID VENT THRU ROOF	MV	MEDICAL VACUUM
AW	ACID WASTE	N	NITROGEN
BFP	BACKFLOW PREVENTER DEVICE	NIC	NOT IN CONTRACT
BOP	BOTTOM OF PIPE	NC	NORMALLY CLOSED
BOS	BOTTOM OF STEEL	NO	NORMALLY OPEN
BOF	BOTTOM OF FOOTING	NP	NON-POTABLE WATER
BTU	BRITISH THERMAL UNIT	OX	OXYGEN
BWV	BACKWATER VALVE	ORD	OVERFLOW ROOF DRAIN
CFH	CUBIT FEET PER HOUR	OST	OVERFLOW STORM
CO	CLEANOUT	OWO	OVERFLOW WALL OUTLET (STORM)
C.O.T.G.	CLEANOUT TO GRADE	P	PITCH
COND	CONDENSATE	PD	PUMPED DISCHARGE
CTE	CONNECT TO EXISTING	PRV	PRESSURE REDUCING VALVE
CV	CHECK VALVE	PSI	POUNDS PER SQUARE INCH
CW	COLD WATER	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	RO	REVERSE OSMOSIS WATER
DFU	DRAINAGE FIXTURE UNITS	RPD	REDUCED PRESSURE BACKFLOW PREVENTER
DI	DEIONIZED WATER	RT	RUNNING TRAP
DIR	DEIONIZED WATER RECIRCULATION	RTU	ROOF TOP UNIT
DIST	DISTILLED WATER	RWC	RAIN WATER CONDUCTOR
DN	DOWN	S	SOIL
EL	ELEVATION	SAN	SANITARY
EOSC	EMERGENCY OXYGEN SUPPLY CONNECTION	SF, SQ FT	SQAURE FEET
EWC	ELECTRIC WATER COOLER	SFU	SUPPLY FIXTURE UNITS
EWH	ELECTRIC WATER HEATER	SI	SOLIDS INTERCEPTOR
EX	EXISTING	SP	SUMP PUMP/SEWAGE PUMP
EXP	EXPANSION TANK	SS	SOIL STACK
FCO	FLOOR CLEANOUT	ST	STORM
FCU	FAN COIL UNIT	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
FD	FLOOR DRAIN	TD	TRENCH DRAIN
FS	FLOOR SINK	TOF	TOP OF FOOTING
G	GAS (NATURAL)	TP	TRAP PRIMER
GI	GREASE INTERCEPTOR	TMV	THERMOSTATIC MIXING VALVE
GPM	GALLONS PER MINUTE	TW	TEMPERED OR TEPID WATER
GRU	GREASE RECOVERY UNIT	TWR	TEMPERED OR TEPID WATER RECIRCULATION
GSV	GAS SOLENOID VALVE	TYP	TYPICAL
GT	GREASE TRAP	UH	UNIT HEATER
GV	GAS VENT	UR	URINAL
GW	GREASE WASTE	V	VENT
HB	HOSE BIBB	VB	VACUUM BREAKER
HC	HANDICAPPED ACCESSIBLE	VIF	VERIFY IN FIELD
H&CW	HOT AND COLD WATER	VS	VENT STACK
HW	HOT WATER	VTR	VENT THRU ROOF
HWR	HOT WATER RECIRCULATION	V V	VAPOR VENT
INV	INVERT	W	WASTE
IW	INDIRECT WASTE	W&T	WASTE & TRAP
KW	KILOWATT	W&V	WASTE & VENT
LA	LABORATORY AIR	WC	WATER CLOSET
LAV	LAVATORY	WCO	WALL CLEANOUT
LF	LINEAR FEET	WH	WALL HYDRANT
LPG	LIQUIFIED PETROLEUM GAS	WHA	WATER HAMMER ARRESTER
LV	LABORATORY VACUUM	WS	WASTE STACK
MA	MEDICAL AIR	YH	YARD HYDRANT
MBH	THOUSAND B.T.U. PER HOUR		

PLUMBING GENERAL NOTES

THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

A. THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.

B. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK. SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C. REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND COORDINATION OF CONTRACTUAL WORK FOR OPERATIONS AND CONNECTIONS TO OTHER SYSTEMS.

D. PROVIDE ALL SERVICES TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO: GAS SUPPLY PIPING, CONDENSATE PIPING, COLD WATER SUPPLY PIPING, DRAINS, AND CONNECTIONS TO AIR HANDLING UNITS, FAN COIL UNITS, UNIT HEATERS, BOILERS, CHILLERS, ETC. ALSO, PROVIDE ADDITIONAL DEVICES INCLUDING BUT NOT LIMITED TO: BACKFLOW PREVENTERS, REGULATORS, UNIONS, TRAPS, AND SHUT-OFF VALVES REQUIRED FOR AFOREMENTIONED EQUIPMENT. REFER TO HVAC DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.

E. IN RENOVATION WORK, COORDINATE SYSTEMS SHUTDOWN WITH OWNER IN ORDER TO MAKE NEW PIPING CONNECTIONS. ALLOW MINIMUM OF TEN (10) DAYS ADVANCE OF NOTICE FOR OWNER APPROVAL TO PROCEED WITH CONTRACT WORK.

PLUMBING PIPING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
150F	HOT WATER 150°F
150F	HOT WATER RECIRCULATION 150°F
TW	TEMPERED OR TEPID WATER
TWR	TEMPERED OR TEPID WATER RECIRCULATION
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER
NPHWR	NON-POTABLE HOT WATER RECIRCULATION
	WASTE OR SANITARY
	WASTE OR SANITARY BURIED
AW	ACID WASTE
AW	ACID WASTE BURIED
ST	STORM
ST	STORM BURIED
OS	OVERFLOW STORM
V	VENT
AV	ACID VENT
V V	VAPOR VENT
GW	GREASE WASTE
GW	GREASE WASTE BURIED
C	CONDENSATE WASTE
CPD	CONDENSATE WASTE - PUMP DISCHARGE
IW	INDIRECT WASTE
PD	PUMPED DISCHARGE
G	GAS (NATURAL)
LPG	LIQUIFIED PETROLEUM GAS
HPG	HIGH PRESSURE GAS
GV	GAS VENT
	DIRECTION OF FLOW
	EXISITNG PIPING OR EQUIPMENT TO BE REMOVED
	EXISTING PIPING OR EQUIPMENT TO REMAIN
A	COMPRESSED AIR
HPA	HIGH PRESSURE COMPRESSED AIR
	PIPE DOWN
	PIPE DROP
	PIPE RISE
	PIPE ANCHOR
	PIPE GUIDE
	SEISMIC PIPE FITTING
	PLUGGED OR CAPPED PIPE
	CLEANOUT PLUG (WITH FINISHED PLATE FOR WCO)
	FLOOR CLEANOUT
	RUNNING TRAP
EHT	ELECTRIC HEAT TRACE CABLE
TMC	TEMPERATURE MAINTENANCE CABLE

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	THERMOMETER
	PRESSURE GAUGE WITH PETCOCK
	WATER HAMMER ARRESTER WITH SHUTOFF VALVE
	STRAINER "Y" TYPE
	P-TRAP
	ROOF DRAIN
	FLOOR DRAIN
	FLOOR SINK
	SHOWER HEAD
TP	TRAP PRIMER (REFER TO SPECIFICATION FOR TYPE)
	UNION
	PETCOCK
	BALANCING VALVE
	BUTTERFLY VALVE
	BACKWATER VALVE
	CHECK VALVE
	BACKFLOW PREVENTER (DOUBLE CHECK TYPE)
	BACKFLOW PREVENTER ASSEMBLY (RPD) WITH SHUTOFF VALVES
	THERMOSTATIC MIXING VALVE
	SOLENOID VALVE
	SHUT OFF VALVE (REFER TO SPECIFICATION FOR TYPE)
	GAS VALVE
	OS&Y GATE VALVE
	ANGLE VALVE
	WALL HYDRANT (WH) OR HOSE BIBB (HB)
	PRESSURE REDUCING VALVE (*= PSI SETTING)
	GAS PRESSURE REGULATOR
	DRAIN
	TEMPERATURE AND PRESSURE RELIEF VALVE (T&P)
M	WATER METER
GM	GAS METER
	CONNECT TO EXISTING
XX	FIXTURE TYPE (REFER TO SPECIFICATION FOR TYPE)
ES/EW	EMERGENCY SHOWER/EYEWASH
	PUMP
	ADA ACCESSIBLE FIXTURE
	OVERFLOW STORM CONDUCTOR NOZZLE
PB	EMERGENCY GAS REMOTE PUSH BUTTON
	VALVE IN PIPE DROP
	VALVE IN PIPE RISE

LEGEND NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MOUNT	CW	HW	W	V	DESCRIPTION
D1	SINK	C'TOP	1/2"	1/2"	1-1/2"	1-1/2"	'ELKAY' # LRADQ221945, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, SINGLE-BOWL, 22" X 19-1/2" X 4-1/2" DEEP WITH 'T&S BRASS' # B-0892-FC, RIGID GOOSENECK, 0.7 GPM FAUCET WITH 6" WRIST BLADE HANDLES. PROVIDE GRID STRAINER DRAIN ASSEMBLY AND CHROME PLATED SUPPLIES WITH SCREWDRIVER STOPS.
SP-1	SINK PUMP		-	-	1-1/2"	1-1/2"	'PENTAIR-FLOTEC', #FPUS1860A, THERMOPLASTIC BODY WITH INTERNAL PRESSURE SWITCH, 1/3 HP, 115V, 60 HZ, SINGLE PHASE MOTOR WITH CAPACITY RATED AT 4 GPM AT 12' FT. HD. 1-1/2" INLET, 1-1/4" OUTLET, 1/8" SOLIDS HANDLING WITH BALL VALVE, CHECK VALVE AND 8' SJTW W/ 3 PRONG PLUG.

NOTES:

1. ALL FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE MOUNTING HEIGHTS.

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina

PROJECT NO.: 2023088.00

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: 2387

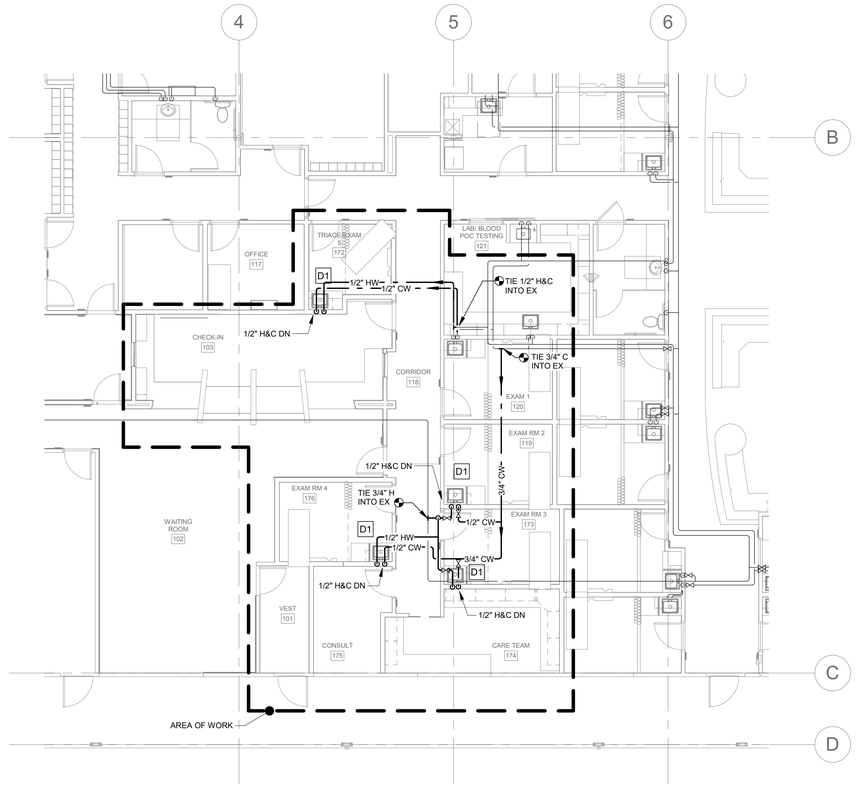
Revisions

Issue Dates:

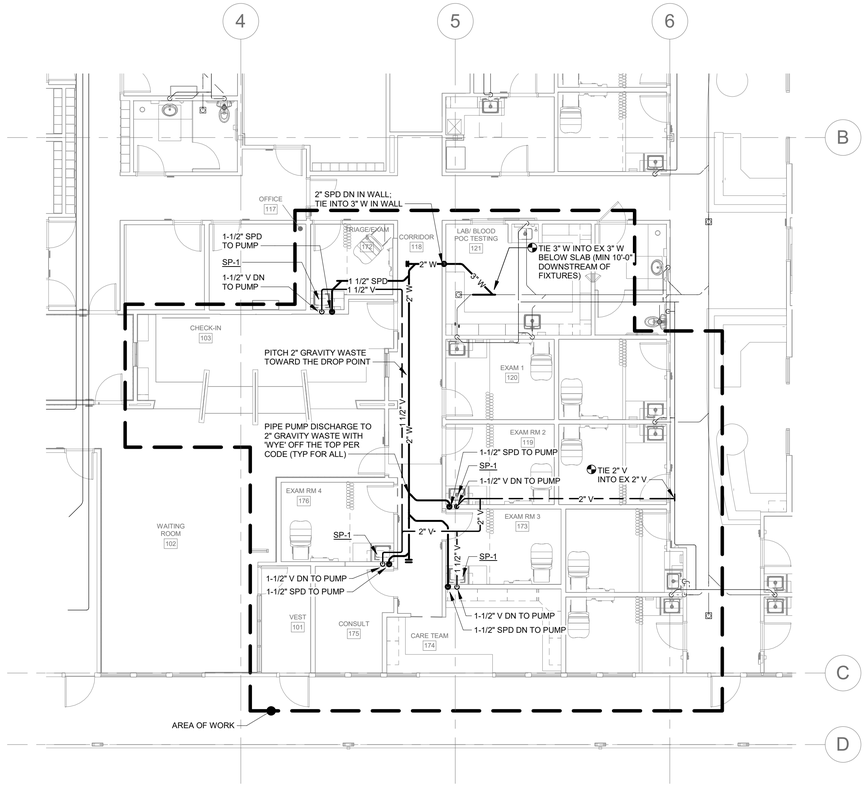
CONSTRUCTION DOCUMENTS
01/26/2024

PLUMBING LEGENDS, NOTES AND SCHEDULES

P001



1 PLUMBING SUPPLY NEW WORK PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 PLUMBING WASTE AND VENT NEW WORK PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
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01/26/2024

PLUMBING NEW WORK PARTIAL FIRST FLOOR PLANS

P102

PLUMBING SPECIFICATION

PART 1 - GENERAL

1.1 GENERAL

A. ARCHITECT'S GENERAL CONDITIONS ARE A PART OF THIS DIVISION. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF LOCAL AND STATE AGENCIES AND UTILITY COMPANIES. THIS CONTRACTOR SHALL BEAR THE COST OF ALL FEES, PERMITS, LICENSES AND TAXES AND ANY UTILITY COMPANY CHARGES IN CONNECTION WITH THE WORK.

1.2 SCOPE

A. NEW WORK:

1. FURNISH AND INSTALL A COMPLETE PLUMBING SYSTEM FOR THE INCLUDING, BUT NOT LIMITED TO: HOT AND COLD WATER, SANITARY, WASTE AND VENT PIPING; INSULATION AND ALL OTHER EQUIPMENT AS INDICATED ON THE PLANS, AS HEREIN SPECIFIED AND AS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS. SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS, TESTED, APPROVED AND READY TO OPERATE. THE PLUMBING CONTRACTOR SHALL ARRANGE HIS WORK SO THAT ANY SHUTDOWN DOES NOT INTERFERE WITH THE OWNER'S OPERATION OF THE EXISTING FACILITY.

C. WORK BY OTHERS:

1. THE PLUMBING CONTRACTOR SHALL INSTALL ALL MOTORS PROVIDED UNDER THE PLUMBING CONTRACT READY FOR WIRING BY THE ELECTRICAL CONTRACTOR AND SHALL FURNISH AND DELIVER TO THE ELECTRICAL CONTRACTOR WIRING DIAGRAMS FOR ALL MOTOR STARTERS FOR INSTALLATION AND WIRING. THE PLUMBING CONTRACTOR SHALL FURNISH MOTOR STARTERS, RELAYS AND ALL CONTROL EQUIPMENT TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION AND WIRING.

2. THE GENERAL CONTRACTOR SHALL PROVIDE ALL CHASES, OPENINGS, CUTTING, PATCHING, PAINTING AND FINISH WORK.

1.3 FIELD MEASUREMENTS

A. THE PLUMBING CONTRACTOR SHALL VERIFY IN THE FIELD ALL MEASUREMENTS NECESSARY FOR HIS WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR ACCURACY.

1.4 SUBMITTALS

A. SUBMIT SIX (6) COPIES OF MANUFACTURER'S DRAWINGS OF THE FOLLOWING TO THE ARCHITECT/ENGINEER FOR REVIEW: PLUMBING FIXTURES, DRAINS, PIPE, VALVES, INSULATION AND SPECIAL EQUIPMENT. SUBMIT INFORMATION ON ANY OTHER EQUIPMENT TO BE USED WHEN REQUESTED BY THE ARCHITECT OR THE ENGINEER.

1.5 RECORD DRAWINGS

A. NEATLY AND ACCURATELY RECORD ALL CHANGES FROM CONTRACT DOCUMENTS ON RECORD SET OF PRINTS FURNISHED BY THE ENGINEER. THESE RECORD "AS-BUILT" DRAWINGS SHALL INCLUDE LOCATIONS OF SPECIFIC ITEMS AS LISTED IN THE VARIOUS SPECIFICATION DIVISIONS. UPON PROJECT COMPLETION, FURNISH DRAWINGS TO THE ENGINEER.

1.6 DEFINITION

A. AS USED ON CONTRACT DOCUMENTS, THE TERM "TO PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM OR MATERIAL DESCRIBED".

1.7 GUARANTEE

A. MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL HAVE STANDARD WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. ANY FAILURE DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR DESIGN SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THE CONTRACTOR, INCLUDING ANY DAMAGE DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE. GUARANTEE PERIOD SHALL EXTEND FOR ONE YEAR FROM DATE OF ACCEPTANCE.

1.8 COORDINATION

A. THE PLUMBING CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS AND SPECIFICATIONS OF OTHER TRADES TO DETERMINE THE EXTENT OF WORK. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT AND LOCAL CONDITIONS BEFORE SUBMITTING A BID. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IF SO DIRECTED BY THE ARCHITECT OR THE ENGINEER, THE PLUMBING CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT TO PREVENT CONFLICT WITH THOSE OF OTHER TRADES AND FOR PROPER INSTALLATION OF WORK. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

1.9 INSURANCE

A. FURNISH INSURANCE CERTIFICATES REQUIRED BY THE OWNER.

1.10 PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS

A. OBTAIN AND PAY FOR PERMITS, INSPECTIONS, LICENSES AND CERTIFICATES REQUIRED. INTERNATIONAL PLUMBING CODE AND LOCAL UTILITY COMPANY REQUIREMENTS. EQUIPMENT, MATERIALS AND COMPONENTS LISTED IN UL PRODUCT DIRECTORIES, SHALL BEAR UL LABELS.

1.11 OPERATING AND MAINTENANCE INSTRUCTIONS

A. INSTRUCT OWNER'S PERSONNEL IN THE PROPER OPERATING AND MAINTENANCE OF SYSTEMS.

1.12 ARRANGEMENT OF WORK

A. WORK SHALL BE COORDINATED BETWEEN TRADES TO PREVENT UNNECESSARY INTERFERENCE. WORK SHALL PRESENT A NEAT COORDINATED APPEARANCE. INSTALL WORK AS NECESSARY TO PROVIDE MAXIMUM POSSIBLE HEADROOM, ADEQUATE CLEARANCE AND READY ACCESS FOR INSPECTION, OPERATION, SAFE MAINTENANCE AND REPAIR, AND CODE CONFORMANCE. WHERE SPACE APPEARS INADEQUATE, CONSULT THE OWNER BEFORE PROCEEDING WITH THE INSTALLATION.

1.13 WORKMANSHIP

A. EQUIPMENT AND MATERIALS SHALL BE NEW, OF FIRST-CLASS QUALITY, SELECTED AND ARRANGED TO FIT PROPERLY INTO SPACES INDICATED. INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

1.14 COORDINATION WITH OWNER

A. ALL WORK SHALL BE SCHEDULED WITH THE OWNER. INTERRUPTIONS IN THE OWNER'S ACCESS TO THE SITE SHALL BE SUBJECT TO OWNER LIMITATIONS OF DATE AND DURATION.

1.15 OPERATION OF SERVICES AND UTILITIES

A. SHUTDOWN OF EXISTING SERVICES AND UTILITIES SHALL, WITHOUT EXCEPTION, BE COORDINATED WITH THE OWNER AS TO DATE, TIME OF DAY, AND DURATION BEFORE ANY SERVICE IS INTERRUPTED. NOTIFY THE OWNER OF ESTIMATED DURATION OF SHUTDOWN PERIOD AT LEAST TEN DAYS IN ADVANCE OF PROPOSED SHUTDOWN.

1.16 PROTECTION

A. CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIAL OR DAMAGING WATER. PROTECT EXISTING PROPERTY, EQUIPMENT AND FINISHES FROM DAMAGE. REPAIR, TO ORIGINAL CONDITION, EXISTING PROPERTY THAT HAS BEEN DAMAGED DURING EXECUTION OF THE WORK.

1.17 CLEANING

A. WORK SITE MUST BE KEPT CLEAN. RUBBISH, DEBRIS AND LEFTOVER OR EXCESS MATERIALS SHALL BE REMOVED DAILY.

1.18 PAINTING

A. MECHANICAL AND ELECTRICAL EQUIPMENT AND MATERIALS SHALL HAVE PRIME COAT AND STANDARD MANUFACTURER'S FINISH.

1.19 CUTTING AND PATCHING

A. AREAS DISTURBED BY NEW CONSTRUCTION OR DEMOLITION SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING CONDITIONS. PATCH PAINTING OF CEILINGS SHALL INCLUDE PAINTING OF ENTIRE CEILING OF ROOM INVOLVED. PATCH PAINTING OF OTHER SURFACES SHALL BE TO THE NEAREST CUT-OFF POINT.

1.20 FIRE PROOFING

A. AT CLOSING OF EACH WORK DAY, PROVIDE TEMPORARY FIRESTOPPING IN EVERY OPENING CUT BETWEEN FLOORS AND THROUGH FIRE-RATED PARTITIONS. PERMANENT FIRESTOPS SHALL BE PROVIDED AROUND SLEEVES AND AT OTHER PERMANENT OPENINGS THROUGH FIRE-RATED PARTITIONS AND FLOORS, AS REQUIRED. MATERIALS USED FOR FIRESTOPPING SHALL BE CLASS A "INCOMBUSTIBLE" WITH FIRESTOPPING CAPABILITIES EQUAL TO THAT OF ADJACENT CONSTRUCTION.

1.21 BASES AND SUPPORTS

A. PROVIDE NECESSARY SUPPORTS REQUIRED. EQUIPMENT SHALL BE SECURELY ATTACHED TO BUILDING STRUCTURE IN ACCEPTABLE MANNER. ATTACHMENTS SHALL BE OF STRONG AND DURABLE NATURE, AS DETERMINED BY THE ARCHITECT AND ENGINEER.

B. DELEGATED DESIGN: DESIGN TRAPEZE PIPE HANGERS AND EQUIPMENT SUPPORTS, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.

C. STRUCTURAL PERFORMANCE: HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED ACCORDING TO ASCE/SEI 7.

1.22 ACCESS

A. PROVIDE ADEQUATELY SIZED ACCESS DOORS, FOR ACCESS TO CONCEALED EQUIPMENT AND COMPONENTS REQUIRING SERVICING OR INSPECTION. DOORS SHALL HAVE FIRE RATINGS EQUAL TO CONSTRUCTION IN WHICH THEY ARE LOCATED.

1.23 TESTS

A. PERFORM TESTS REQUIRED BY THE OWNER, LEGAL AUTHORITIES AND AGENCIES. EACH PIECE OF EQUIPMENT, INCLUDING MOTORS AND CONTROLS, SHALL BE OPERATED CONTINUOUSLY FOR MINIMUM ONE-HOUR TEST. CORRECT ALL DEFECTS APPEARING DURING TESTS, AND REPEAT TESTS UNTIL NO DEFECTS ARE DISCLOSED. FINAL TESTS SHALL BE MADE IN THE OWNER'S PRESENCE.

PART 2 - PRODUCTS

2.1 MATERIALS AND METHODS

A. PIPING, VALVES, INSULATION, ETC.

1. WASTE AND VENT PIPING ABOVE GRADE AND ALL BRANCH WASTE AND VENT PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON WITH NO-HUB COUPLINGS MEETING ASTM STANDARD #C564.

2. WATER PIPE ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SWEAT FITTINGS USING LEAD-FREE SOLDER. VALVES SHALL BE FULL PORT BALL TYPE WITH SCREWED ENDS: APOLLO #77-100 LEAD FREE OR EQUIVALENT.

3. CONDENSATE PIPING, IF REQUIRED, SHALL BE TYPE "L" COPPER WITH LEAD FREE SOLDERED JOINTS. FITTINGS SHALL BE DRAINAGE PATTERN TYPE.

4. DOMESTIC HOT WATER PIPING SHALL BE INSULATED WITH MINIMUM 1" THICK FOR PIPING UP TO 1-1/4" AND 1-1/2" FOR 1-1/2" AND LARGER PER ENERGY CODE REQUIREMENTS. DOMESTIC COLD WATER AND CONDENSATE PIPING WITH MINIMUM 1/2" THICK OWENS CORNING FIBERGLASS INSULATION WITH PREFORMED INSULATED FITTINGS AND VAPOR BARRIER. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED INSTRUCTIONS.

5. PROVIDE CHROME-PLATED ESCUTCHEONS WHERE EXPOSED PIPE PASSES THROUGH WALLS, FLOOR OR CEILING.

PART 3 - EXECUTION

3.1 INSTALLATION

A. WATER PIPING SHALL BE RUN CONCEALED IN ALL FINISHED AREAS AND SO ARRANGED THAT IT CAN BE DRAINED AT LOW POINTS. PROVIDE HOSE BIBB DRAINS AT THESE LOW POINTS. SUPPORT PIPING WITH CLEVIS HANGERS IN SUCH A MANNER THAT THERE IS NO SAGGING OR NOISE DUE TO VIBRATION.

B. SANITARY, WASTE AND VENT PIPING ABOVE GRADE SHALL BE SUPPORTED WITH CLEVIS HANGERS AT 5'-0" FOR 5'-0" PIPE LENGTHS, 10'- 0" FOR 10'-0" PIPE LENGTHS.

C. MINIMUM PITCH FOR SANITARY PIPING SHALL BE 1/8 INCH PER FOOT FOR PIPING 4 INCHES AND LARGER AND 1/4 INCH PER FOOT FOR 3 INCHES AND SMALLER. PROVIDE CLEANOUTS AT END OF ALL LINES, CHANGES IN DIRECTION, BASE OF ALL STACKS AND ALL TRAPS WHETHER OR NOT SHOWN ON THE DRAWINGS. PROVIDE FLUSH ACCESS PANELS TO THE GENERAL CONTRACTOR FOR WALL OR FLOOR MOUNTING AS REQUIRED AT EACH CLEANOUT.

D. UNIONS SHALL BE USED AT CONNECTIONS TO FIXTURES AND OTHER APPARATUS TO ALLOW EASY REMOVAL. PROVIDE WATER HAMMER ARRESTING AIR CHAMBERS EQUAL TO "PPP, INC." OR ACCEPTABLE EQUIVALENT ON HOT AND COLD WATER PIPING AT ALL FIXTURES WHERE QUICK-CLOSING VALVES ARE USED OR AS INDICATED ON PLANS.

E. PROVIDE STANDARD-WEIGHT STEEL PIPE SLEEVES FOR PIPES PASSING THROUGH WALLS AND SHEET METAL SLEEVES FOR PIPES PASSING THROUGH FLOORS.

F. ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS OR FLOOR SIN WHICH PIPES PASS SHALL BE SEALED WITH A UL APPROVED FIRE-STOP FITTING CLASSIFIED FOR AN HOURLY RATE EQUAL TO THE RATING OF THE WALL, CEILING, OR FLOOR.

3.2 CLEANING AND FLUSHING SANITARY, WASTE, VENT, HOT AND COLD WATER

A. ALL PIPING SYSTEMS SHALL BE THOROUGHLY CLEANED BEFORE PLACING IN OPERATION TO RID THE SYSTEM OF DIRT, PIPING COMPOUND, MILL SCALE, OIL AND ANY AND ALL OTHER MATERIAL FOREIGN TO THE WATER BEING CIRCULATED. THIS APPLIES EQUALLY AND ESPECIALLY TO SYSTEMS WHERE PHASES OR PORTIONS OF THE SYSTEMS ARE OPERATED DURING CONSTRUCTION.

B. DISINFECT ALL POTABLE WATER SYSTEMS PRIOR TO BUILDING OCCUPANCY PER CODES AND LOCAL OFFICIALS' REQUIREMENTS. FLUSH SYSTEMS THOROUGHLY WITH POTABLE WATER AFTER DISINFECTION.

3.3 EQUIPMENT SUPPORTS

A. FABRICATE STRUCTURAL-STEEL STANDS TO SUSPEND EQUIPMENT FROM STRUCTURE OVERHEAD OR TO SUPPORT EQUIPMENT ABOVE FLOOR.

B. USE HANGERS AND SUPPORTS WITH GALVANIZED METALLIC COATINGS FOR PIPING AND EQUIPMENT THAT WILL NOT HAVE FIELD-APPLIED FINISH.

3.4 TESTS

A. DISINFECT ALL POTABLE WATER SYSTEMS PRIOR TO BUILDING OCCUPANCY PER CODES AND LOCAL OFFICIALS REQUIREMENTS. FLUSH SYSTEMS THOROUGHLY WITH POTABLE WATER AFTER DISINFECTION.

B. HYDROSTATICALLY TEST ALL DOMESTIC WATER PIPING AT 150 PSI FOR THREE (3) HOURS WITHOUT LEAKS.

C. TEST ALL GRAVITY SANITARY, WASTE AND VENT PIPING WITH A 10-FOOT HEAD OF WATER FOR A MINIMUM OF 15 MINUTES WITHOUT LEAKS.

D. TEST ALL CONCEALED PIPING BEFORE CLOSING IN.

END OF SECTION

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
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01/26/2024

PLUMBING SPECIFICATIONS

P601

MECHANICAL LEGEND PIPING SYSTEMS

SYMBOL	DESCRIPTION
	BALL VALVE
	BUTTERFLY VALVE
	BALANCE VALVE
	CHECK VALVE
	AUTOMATIC CONTROL VALVE
	STRAINER
	MULTI-PURPOSE VALVE
	ISOLATION VALVE
	OUTSIDE SCREW & YOKE GATE VALVE (OS&Y)
	PUMP
	THERMOMETER
	FINNED TUBE RADIATION
	PRESSURE GAUGE
	PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	FLOAT & THERMOSTATIC TRAP ASSEMBLY
	INVERTED BUCKET TRAP ASSEMBLY
	AIR VENT (MANUAL OR AUTO.)
	BRANCH OFF TOP OF MAIN
	BRANCH OFF BOTTOM OF MAIN
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	PIPING TO BE REMOVED
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
MCHWS	MEDIUM TEMPERATURE CHILLED WATER SUPPLY
MCHWS	MEDIUM TEMPERATURE CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
DTWS	DUAL TEMPERATURE WATER SUPPLY
DTWR	DUAL TEMPERATUR WATER RETURN
C	CONDENSATE DRAIN LINE
HPS	HIGH PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
CPD	CONDENSATE PUMP DISCHARGE
HRS	HEAT RECOVERY SUPPLY
HRR	HEAT RECOVERY RETURN
PHHWS	PRE-HEAT HOT WATER SUPPLY
PHHWR	PRE-HEAT HOT WATER RETURN
GHWS	GLYCOL HOT WATER SUPPLY
GHWR	GLYCOL HOT WATER RETURN
GHRS	GLYCOL HEAT RECOVERY SUPPLY
GHRR	GLYCOL HEAT RECOVERY RETURN
RL	REFRIGERANT LIQUID
RG	REFRIGERANT HOT GAS
RS	REFRIGERANT SUCTION
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
	RADIANT FLOOR

MECHANICAL LEGEND ABBREVIATIONS & GENERAL SYMBOLS

SYMBOL	DESCRIPTION
ACU	AIR CONDITIONING/INDOOR UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
BC	BC CONTROLLER
BMS	BUILDING MANAGEMENT SYSTEM
CFM	CUBIC FEET PER MINUTE
CP	CONDENSATE PUMP
CU	CONDENSING UNIT/OUTDOOR UNIT
(E)CUH	(ELECTRICAL) CABINET UNIT HEATER
DC	DUST COLLECTOR
DOAS	DEDICATED OUTDOOR AIR SYSTEM
EA	EXHAUST AIR
EF	EXHAUST FAN
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
FCU	FAN COIL UNIT
FTR	FINNED TUBE RADIATION
HRU	HEAT RECOVERY UNIT
HWC	HOT WATER COIL
HX	HEAT EXCHANGER
M	MANIFOLD FOR RADIANT FLOOR
MAU	MAKE-UP AIR UNIT
NL	NEW LOCATION OF EXISTING
OA	OUTSIDE AIR
OAF	OUTDOOR AIR FAN
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RE	REBALANCE EXISTING
RHC	REHEAT COIL
RL	RELOCATE EXISTING
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
	DEMOLITION WORK: POINT OF REMOVAL NEW WORK: POINT OF ATTACHMENT

MECHANICAL LEGEND AIR SYSTEMS

SYMBOL	DESCRIPTION
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DN.
	EXHAUST DUCT UP
	EXHAUST DUCT DN.
	EXISTING DUCT (SINGLE LINE)
	EXISTING DUCT (DOUBLE LINE)
	NEW DUCT (SINGLE LINE)
	NEW DUCT (DOUBLE LINE)
	ACOUSTICALLY LINED DUCT (SINGLE LINE)
	ACOUSTICALLY LINED DUCT (DOUBLE LINE)
	DUCT TO BE REMOVED (SINGLE LINE)
	DUCT TO BE REMOVED (DOUBLE LINE)
	FLUSH CAP, SINGLE LINE
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	SUPPLY AIR FLOW
	RETURN/EXHAUST AIR FLOW
LD	LOUVER DOOR (SIZE AS NOTED)
UD	UNDER CUT DOOR
	REHEAT COIL
	VARIABLE AIR VOLUME BOX
AFC	AIR FLOW CONTROLLER
	SOUND ATTENUATOR
VD	VOLUME DAMPER (PLAN VIEW)
FD	FIRE DAMPER (PLAN VIEW)
SD	SMOKE DAMPER (PLAN VIEW)
FSD	FIRE SMOKE DAMPER (PLAN VIEW)
ACD	AUTOMATIC CONTROL DAMPER (PLAN VIEW)
DS	DUCT SMOKE DETECTOR
	DIFFERENTIAL PRESSURE
T	THERMOSTAT
T	TEMPERATURE SENSOR
A	AIRCUITY SENSOR
CO_2	CO_2 SENSOR
CCP	Central HVAC Controll Panel

MECHANICAL GENERAL NOTES

A. PROVIDE NEW DUCTWORK, DIFFUSERS AND GRILLES WHERE SHOWN. SEE SPECIFICATIONS. COORDINATE NEW DIFFUSER LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN.

B. COORDINATE NEW DUCTWORK WITH STRUCTURAL STEEL, PLUMBING PIPING, LIGHTS, ETC. OFFSET NEW DUCTWORK AS REQUIRED.

C. DUCT SIZES SHOWN INDICATE CLEAR INSIDE DIMENSIONS OF DUCT AND INSULATION.

D. THIS PLAN IS GENERALLY SCHEMATIC IN NATURE. EVERY ELBOW, FITTING, ETC. IS NOT SHOWN. PROVIDE SUCH COMPONENTS AS REQUIRED FOR COMPLETE INSTALLATION, PROPERLY COORDINATED WITH ALL TRADES.

E. PROVIDE VOLUME DAMPERS IN ALL SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST BRANCH DUCTS AS REQUIRED TO PROPERLY BALANCE THE ENTIRE AIR SYSTEM. PROVIDE REMOTELY OPERATED (CABLE) DAMPERS WHEN DAMPERS ARE INACCESIBLE. COORDINATE WITH ARCHITECTURAL RCP TYPES.

F. INSTALL ACCESS DOORS AT ALL COILS, DAMPERS, CONTROL DEVICES AND LOCATIONS INDICATED ON PLANS.

G. ALL MATERIALS, METHODS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

H. PROVIDE SEISMIC RESTRAINTS ON ALL EQUIPMENT AND PIPING IN COMPLIANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE CODES.

I. ANY DUCTWORK, PIPING, ETC. NOT SERVING STAIRWELL AREAS SHALL NOT PENETRATE STAIRWELL WALLS.

J. THE LOCATIONS OF PENETRATIONS FOR UTILITIES THROUGH EXISTING FLOOR SLAB CONSTRUCTION ARE SHOWN AS APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE FLOOR SLAB PENETRATION LOCATIONS, AND TO TRANSITION UTILITIES IN SIZE, CONFIGURATION, AND ORIENTATION TO PASS THROUGH APPROVED OPENING. CONTRACTOR SHALL IDENTIFY THIS COORDINATION CLEARLY IN THE SHOP DRAWING PROCESS FOR ARCHITECT AND ENGINEER APPROVAL.

K. THE HVAC SYSTEMS FOR THIS BUILDING HAVE BEEN DESIGNED AND MODELED FOR LOW TRANSPORT ENERGY (LOW VELOCITY AND LOW PRESSURE DROP). THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE NUMBER OF FITTINGS AND TRANSITIONS AND TO PROVIDE FITTING TYPES WITH THE LEAST POSSIBLE PRESSURE DROP.

L. FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF EQUIPMENT, REFER TO ARCHITECTURAL DRAWINGS. ARCHITECT SHALL COORDINATE EQUIPMENT FINISHES, AND EQUIPMENT MOUNTING HEIGHTS.

M. ALL EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. IN THE INSTANCE WHERE EQUIPMENT MUST BE INSTALLED BEHIND A WALL OR ABOVE AN INACCESSIBLE CEILING, AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PROVIDED.

N. IN THE EVENT OF A CONFLICT BETWEEN DOCUMENTS, ARCHITECT SHALL BE NOTIFIED AND THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEMS SHALL BE CARRIED AS PART OF THE BID.

O. ALL FLOOR MOUNTED EQUIPMENT SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PAD.

P. DUCTWORK AND/OR PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL PANELS, SPECIAL EQUIPMENT, IN ELEVATOR MACHINE ROOMS, OR SHAFTS.

Q. PROVIDE BRANCH ISOLATION VALVES OFF OF ALL BUILDING PIPING MAINS ON EACH FLOOR.

R. ALL SUPPLY AND RETURN BRANCH PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.

S. PROVIDE EXPANSION COMPENSATORS, ANCHORS AND GUIDES FOR ALL PIPING SYSTEMS AND INSTALL AS DICTATED BY CODE AND INDUSTRY STANDARDS. EQUIPMENT AND INSTALLATION DETAILS SHALL BE SUBMITTED FOR APPROVAL. THE CONTRACTOR SHALL HIRE AN ENGINEER TO REVIEW DETAILS AND PREPARE COMPLETE DESIGN FOR EXPANSION COMPENSATION.

T. THERMOSTAT AND SIWTCH LOCATIONS SHALL BE GENERALLY AS SHOWN. ACTUAL LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.

U. SUPPORT ALL PIPING FROM STRUCTURE ABOVE. WHEN PIPE RUNS ARE PERPENDICULAR TO BEAMS, INSTALL PIPING TIGHT TO BOTTOM OF BEAM TO MAXIMIZE SPACE. WHEN PIPE RUNS ARE PARALLEL TO BEAMS, INSTALL PIPING TIGHT TO FLOOR SLAB. ALL NECESSARY TRANSITIONS AND FITTINGS SHALL BE PROVIDED.

V. AIR VENTS SHALL BE PROVIDED AT ALL HIGH POINTS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS.

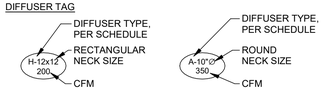
W. ALL WALL MOUNTED SENSORS AND DEVICES SHALL RESIDE ON ARCHITECTURAL PANELS. SEE A-SERIES FOR DEVICE PANEL LOCATIONS AND DETAILS. SEE ARCHITECTURAL FLOOR PLANS FOR LOCATIONS. MOUNTING HEIGHTS TO BE COORDINATED WITH ARCHITECT DURING COORDINATION DRAWING PHASE.

X. REFER TO A-SERIES FOR ACCESS DOOR LOCATIONS IN WALLS, CELINGS AND FLOORS. ACCESS DOORS ARE NOT PERMITTED IN FINISHED SURFACES UNLESS COORDINATED WITH ARCHITECT DURING COORDINATION DRAWING PHASE.

Y. TO ASSIST IN COORDINATION OF UTILITY ROUTING WITH NEW AND EXISTING STRUCTURE, REFER TO DRAWINGS TITLED 'BEAM OVERLAY' LOCATED WITHIN THE GM SERIES OF THIS DRAWING SET.

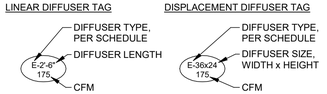
MECHANICAL LEGEND TERMINAL UNIT TAGS

DIFFUSER TAG



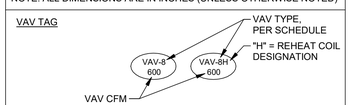
LINEAR DIFFUSER TAG

DISPLACEMENT DIFFUSER TAG

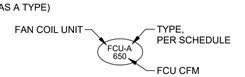


NOTE: ALL DIMENSIONS ARE IN INCHES (UNLESS OTHERWISE NOTED)

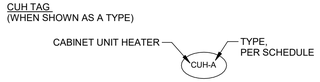
VAV TAG



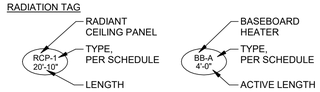
FCU TAG
(WHEN SHOWN AS A TYPE)



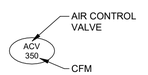
CUH TAG
(WHEN SHOWN AS A TYPE)



RADIATION TAG



LAB AIR CONTROL VALVE TAG



DUCT TYPE SIZE DENOTATIONS

24x12 = RECTANGULAR DUCTWORK
24/12 = FLAT OVAL DUCTWORK
12 Ø = ROUND DUCTWORK

NOTE: ALL DIMENSIONS ARE IN INCHES

CONTROLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S	SWITCH		FILTER
H	HUMIDITY SENSOR		SUPPLY FAN OR RETURN FAN
F	FLOW SENSOR		
P	PRESSURE SENSOR		
DP	DIFFERENTIAL PRESSURE SENSOR	M	MOTORIZED DAMPER
DS	DUCT SMOKE DETECTOR		STARTER/DISCONNECT
LT	LOW TEMPERATURE THERMOSTAT (FREEZE)		
HT	HIGH TEMPERATURE THERMOSTAT		VARIABLE FREQUENCY DRIVE
M	MOTOR		
CS	ELECTRICAL CURRENT SWITCH/SENSOR		

MECHANICAL DEMOLITION NOTES

A. EXISTING MECHANICAL ITEMS THAT ARE BEING DISCONNECTED AND REMOVED SHALL BE DISPOSED OF PROPERLY.

B. NOTIFY CONSTRUCTION MANAGER OF OPENINGS CAUSED BY REMOVAL OF EXISTING EQUIPMENT. ENSURE THE PATCHING IS COMPLETE.

C. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL RELATED DEMOLITION WORK.

D. REMOVE AND PROPERLY DISPOSE OF EXISTING RTU-1 IN ITS ENTIRETY INCLUDING CONTROLS AND ELECTRICAL CONNECTIONS BACK TO PANEL.

E. REMOVE ALL EXISITNG PIPING AND DUCTWORK LOCATED IN THE FULL DEMOLITION AREA. REFER TO ARCHITECTURAL PLANS FOR EXTENT OF FULL DEMOLITION.

F. REMOVE AND PROPERLY DISPOSE OF PUMPS INCLUDING ELECTRICAL CONNECTIONS BACK TO PANEL.

G. CAP ALL BRANCH LINES (DUCTWORK AND PIPING) SCHEDULED FOR DEMOLITION WHERE THEY TIE INTO LINES TO REMAIN WITHIN DIXON AND THE STUDIO WING.

LEGEND NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
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Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: 2387

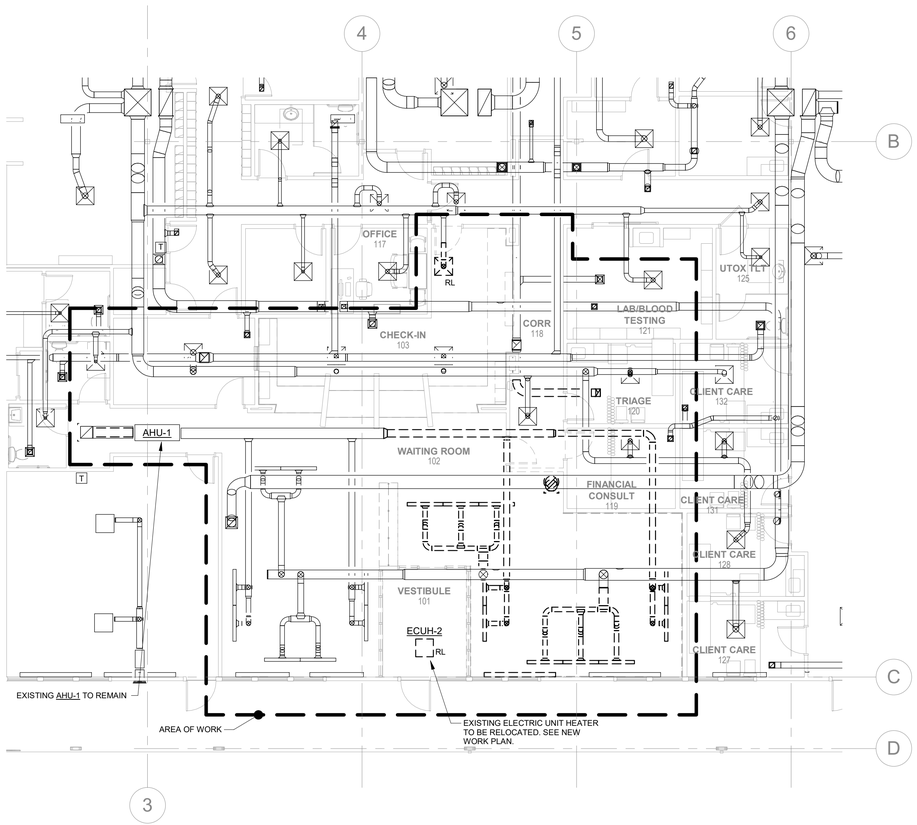
Revisions

Issue Dates:

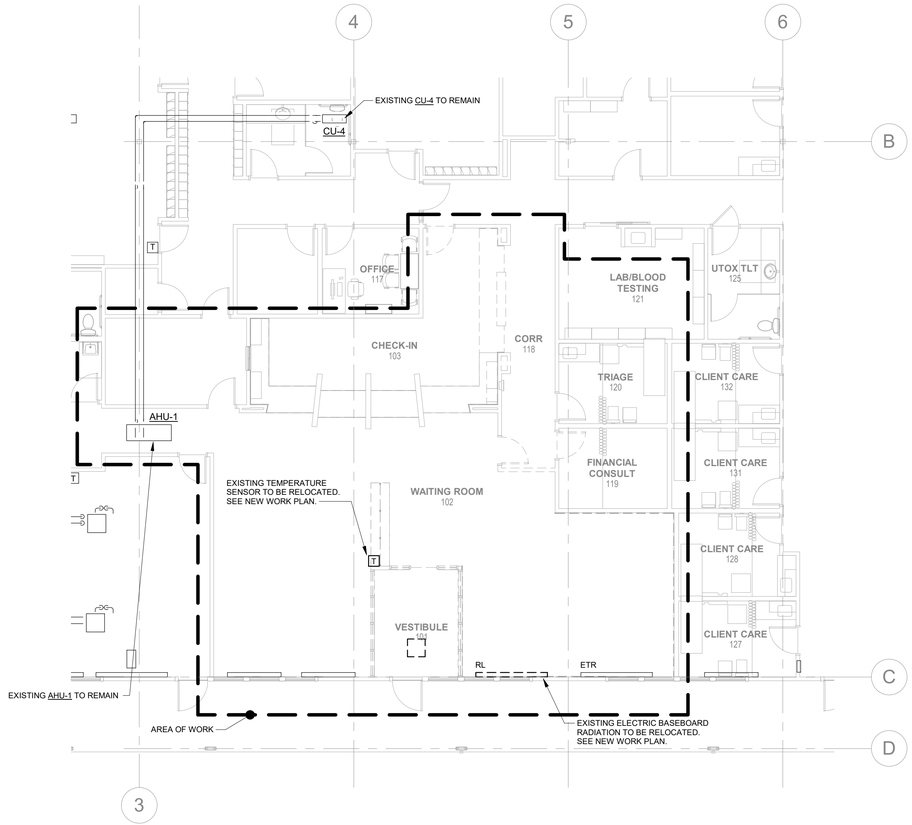
CONSTRUCTION DOCUMENTS
01/26/2024

MECHANICAL LEGENDS AND GENERAL NOTES

M001



1 MECHANICAL AIR DEMOLITION PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



3 MECHANICAL PIPING DEMOLITION PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

QA+M architecture
QuinnBerryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VAN ZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
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Fair Haven Community Health Care

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Project #: **2387**

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Issue Dates:

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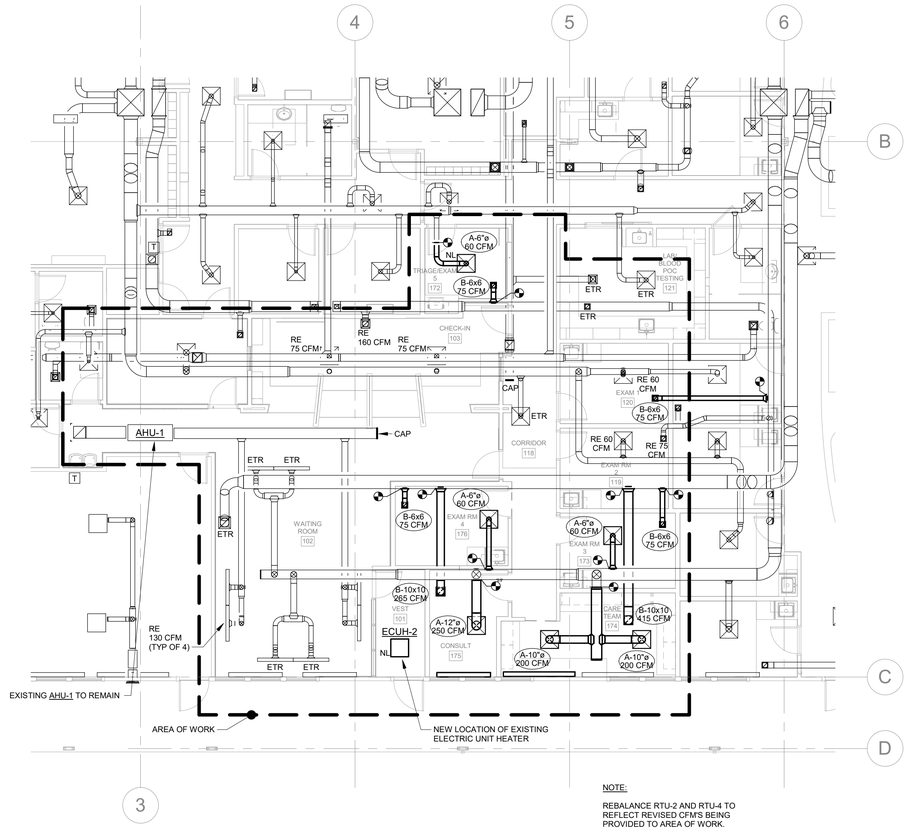
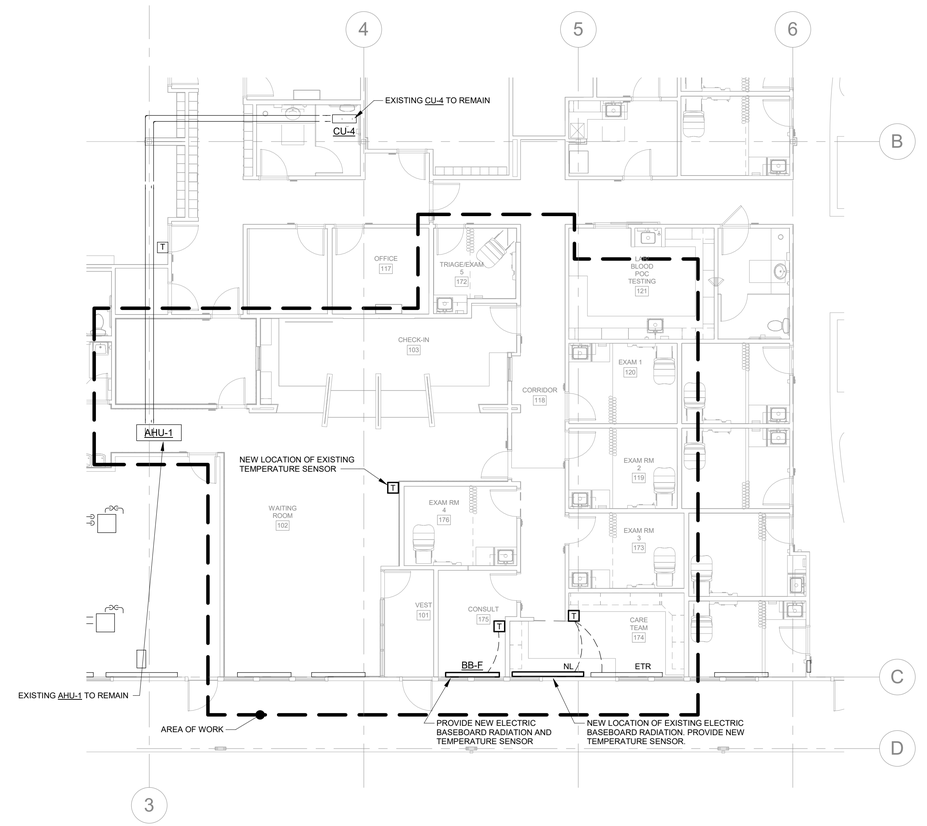
CONSTRUCTION DOCUMENTS
01/26/2024

MECHANICAL DEMOLITION PARTIAL FIRST FLOOR PLAN

MD101



1 MECHANICAL AIR NEW WORK PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 MECHANICAL PIPING NEW WORK PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DIFFUSER & REGISTER SCHEDULE

TYPE	MANUFACTURER	MODEL & SIZE	FUNCTION	DESCRIPTION	REMARKS
A	PRICE	SPD-31	SUPPLY	24X24 LAY-IN	STEEL
B	PRICE	630	RET/EXHAUST	1/2" SPACING 45 DEG. DEFLECTION	STEEL

NOTES:
1. ALL NECK SIZES ARE NOTED ON DRAWINGS.
2. THROW PATTERNS ARE 4-WAY UNLESS NOTED OTHERWISE.
3. PROVIDE OPPOSED BLADE DAMPER.
4. COLOR BY ARCHITECT.

ELECTRIC HEATER SCHEDULE

UNIT NO.	SERVING	MANUFACTURER	MODEL	TYPE	DIM. LxHxD	CAPACITY	ELEC. DATA				REMARKS
						WATTS	VOLTS	PH	Hz	AMPS	
BB-F	PERIMETER-SEE PLANS	Q-MARK	2506NW	BASEBOARD	6 FT	1500	208	1	60	7.3	TAMPER PROOF T-STAT; FILLER PANEL AS NEEDED

ROOF TOP UNIT SCHEDULE- ALTERNATE

AIR HANDLING UNIT DATA							DX COIL DATA								GAS HEATER		ELECECTRICAL DATA				REMARKS
UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	TOTAL CFM	MIN. O.A. CFM	# HIGH / ROWS / F.P.I.	E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	MBH (TOTAL)	MBH (SENS.)	FACE VEL. FPM	INPUT MBH	OUTPUT MBH	VOLTS	PH	Hz	MCA	
RTU-4	ROOF	CARE TEAM / WAITING	TRANE	YHC120F3RLA	3,250	625	1 / 1 / 4 / 16	80	67	56.3	55.8	112.2	82.3	194	150	120	208	3	60	48	RTU-4 ON ROOF NEAR INTERSECTION OF GRIDLINES 6 & B

QA+M architecture
QuisenberryArcanMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

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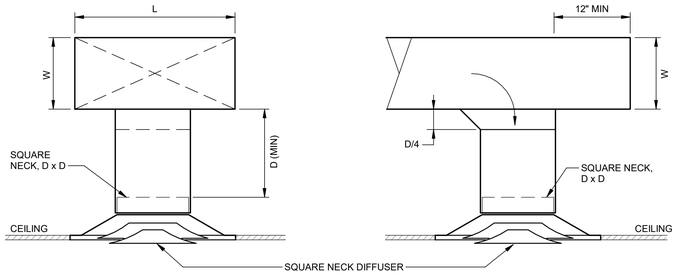
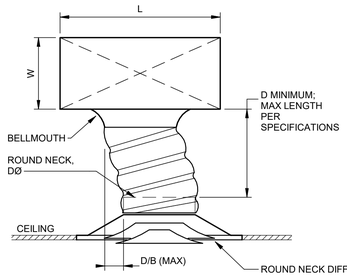
MECHANICAL NEW WORK PARTIAL FIRST FLOOR PLAN

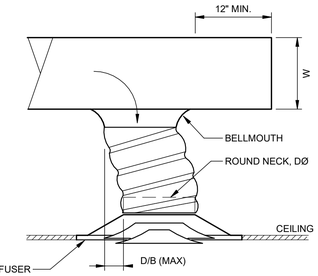
M101

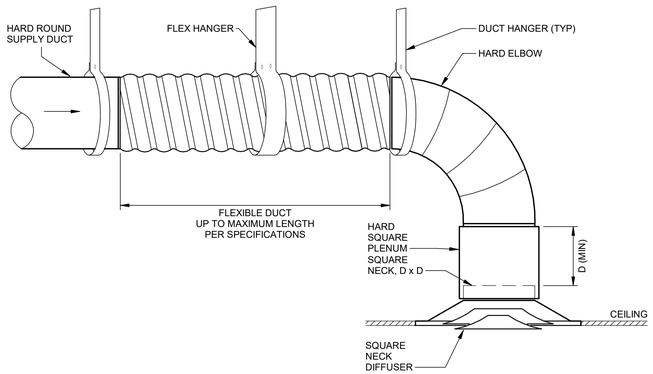


BOTTOM TAKEOFF FOR CONNECTION TO SQUARE NECK DIFFUSER

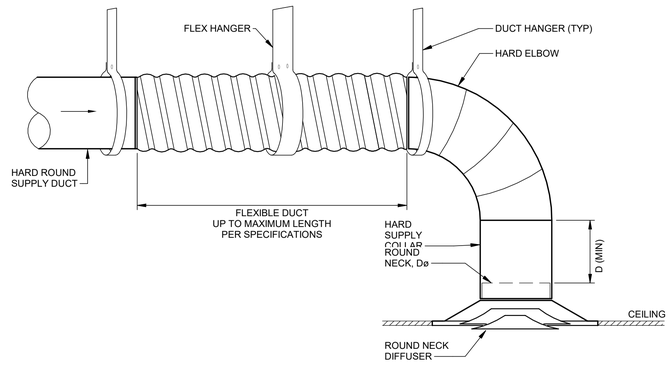


BOTTOM TAKEOFF FOR FLEX CONNECTION TO ROUND NECK DIFFUSER



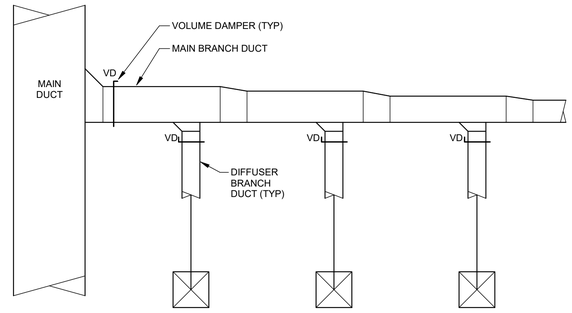


ROUND CONNECTION TO SQUARE NECK DIFFUSER



ROUND CONNECTION TO ROUND NECK DIFFUSER

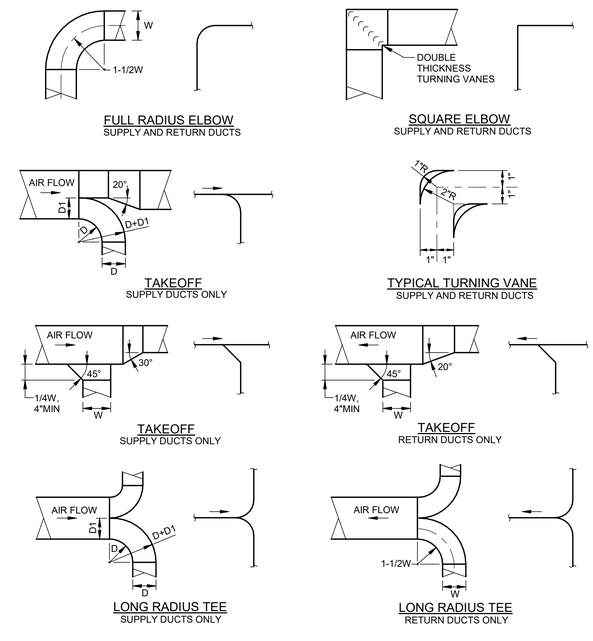
1 TYPICAL CEILING DIFFUSER DUCT CONNECTION DETAILS
SCALE: NONE



NOTES:

1. PROVIDE VOLUME DAMPERS IN EVERY MAIN BRANCH AND DIFFUSER BRANCH AS SHOWN ABOVE.
2. PROVIDE ADDITIONAL VOLUME DAMPERS AS SHOWN ON CONTRACT DOCUMENTS.

2 TYPICAL VOLUME DAMPER LOCATION
SCALE: NONE



3 TYPICAL DUCT DETAILS WITH SINGLE LINE REPRESENTATION
SCALE: NONE

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

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MECHANICAL DETAILS

M401

HVAC SPECIFICATION

PART 1 - GENERAL

1.1 GENERAL

A. ARCHITECT'S GENERAL CONDITIONS ARE A PART OF THIS DIVISION. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF LOCAL AND STATE AGENCIES AND UTILITY COMPANIES. THIS CONTRACTOR SHALL BEAR THE COST OF ALL FEES, PERMITS, LICENSES AND TAXES AND ANY UTILITY COMPANY CHARGES IN CONNECTION WITH THE WORK. ALL EQUIPMENT INSTALLED SHALL BE UL LISTED.

B. AIA DOCUMENT A201-CURRENT VERSION, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" IS HEREBY MADE PART OF THESE SPECIFICATIONS.

C. THIS PROJECT WILL BE COMMISSIONED. REFER TO COMMISSIONING SPECIFICATION SECTIONS FOR COMMISSIONING INFORMATION AND RESPONSIBILITIES. THE COMMISSIONING PROCESS WILL REQUIRE ADDITIONAL LABOR, MATERIAL AND/OR OTHER COSTS WHICH MUST BE PROVIDED BY THE CONTRACTOR AS PART OF THIS PROJECT.

1.2 SCOPE

A. PROVIDE A COMPLETE HVAC SYSTEM AND ALL OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED, INCLUDING BUT NOT LIMITED TO:

1. SYSTEM SHALL BE COMPLETE IN ALL RESPECTS, TESTED, ACCEPTED AND READY TO OPERATE.

1.3 SUBMITTALS

A. SUBMIT SIX (6) COPIES OF MANUFACTURER'S DRAWINGS OF THE FOLLOWING TO THE ARCHITECT FOR APPROVAL:

1. SUBMIT INFORMATION ON ANY OTHER EQUIPMENT TO BE USED WHEN REQUESTED BY THE ARCHITECT OR THE ENGINEER.

2. SUBMIT SIX (6) COPIES OF DUCTWORK SHOP DRAWINGS SHOWING CLEARANCES WITH STRUCTURAL MEMBERS AND MAJOR EQUIPMENT OF OTHER TRADES.

1.4 GUARANTEE

A. MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL HAVE STANDARD WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. ANY FAILURE DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR DESIGN SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THE CONTRACTOR, INCLUDING ANY DAMAGE DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE. GUARANTEE PERIOD SHALL EXTEND FOR ONE YEAR FROM THE DATE OF ACCEPTANCE.

B. THE HVAC CONTRACTOR SHALL PROVIDE A GUARANTEE COVERING ALL MATERIAL AND WORKMANSHIP FOR 1 YEAR FOLLOWING THE DATE OF ACCEPTANCE.

1.5 DEFINITION

A. AS USED ON CONTRACT DOCUMENTS, THE TERM "TO PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM OR MATERIAL DESCRIBED."

1.6 OPERATING AND MAINTENANCE INSTRUCTIONS

A. UPON COMPLETION OF THE PROJECT, THE HVAC CONTRACTOR SHALL FULLY INSTRUCT THE OWNER IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL EQUIPMENT AND SYSTEMS FURNISHED.

B. THE HVAC CONTRACTOR SHALL PROVIDE THE OWNER WITH THREE (3) SETS OF COMPLETE MAINTENANCE AND OPERATING INSTRUCTIONS, AND TECHNICAL DATA, IN BOOKLET FORM, OF ALL EQUIPMENT AND DEVICES FURNISHED IN THE CONTRACT.

1.7 CONTRACTOR'S INSPECTION

A. CONTRACT DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EVERY REQUIRED FITTINGS, ETC. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING SITE CONDITIONS, PRIOR TO SUBMITTING A BID, AND SHALL INCLUDE ALL EQUIPMENT AND ACCESSORIES NECESSARY FOR COMPLETE AND OPERATIONAL SYSTEMS.

B. THE HVAC CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS AND SPECIFICATIONS OF OTHER TRADES TO DETERMINE THE EXTENT OF WORK. THE HVAC CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT AND LOCAL CONDITIONS BEFORE SUBMITTING A BID. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IF SO DIRECTED BY THE ARCHITECT OR ENGINEER, THE HVAC CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT TO PREVENT CONFLICT WITH THOSE OF OTHER TRADES AND FOR PROPER INSTALLATION OF WORK. REFER TO THE ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DIFFUSERS, REGISTERS AND GRILLES. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

1.8 ARRANGEMENT OF WORK

A. WORK SHALL BE COORDINATED BETWEEN TRADES TO PREVENT UNNECESSARY INTERFERENCE. WORK SHALL PRESENT A NEAT COORDINATED APPEARANCE. INSTALL WORK AS NECESSARY TO PROVIDE MAXIMUM POSSIBLE HEADROOM, ADEQUATE CLEARANCE AND READY ACCESS FOR INSPECTION, OPERATION, SAFE MAINTENANCE AND REPAIR, AND CODE CONFORMANCE. WHERE SPACE APPEARS INADEQUATE, CONSULT THE OWNER BEFORE PROCEEDING WITH INSTALLATION.

1.9 INSURANCE

A. FURNISH INSURANCE CERTIFICATES REQUIRED BY THE OWNER.

1.10 PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS

A. OBTAIN AND PAY FOR PERMITS, INSPECTIONS, LICENSES AND CERTIFICATES REQUIRED. WORK OF THIS CONTRACT SHALL MEET CURRENT ACCEPTED EDITIONS OF THE STATE BUILDING CODE, STATE FIRE SAFETY CODE AND OTHER LAWS, RULES AND REGULATIONS OF LOCAL, STATE AND FEDERAL AUTHORITIES INCLUDING, BUT NOT LIMITED TO: NATIONAL FIRE PROTECTION ASSOCIATION #13; NATIONAL FIRE PROTECTION ASSOCIATION #90A; NATIONAL FIRE PROTECTION ASSOCIATION #90B; NATIONAL FIRE PROTECTION ASSOCIATION #99; INTERNATIONAL PLUMBING CODE; INTERNATIONAL MECHANICAL CODE; NATIONAL FIRE PROTECTION ASSOCIATION #70 (NATIONAL ELECTRICAL CODE); AND LOCAL UTILITY COMPANY REQUIREMENTS. PAY UTILITY COMPANY BACKCHARGES. EQUIPMENT, MATERIALS AND COMPONENTS LISTED UL PRODUCT DIRECTORIES, SHALL BEAR UL LABELS.

1.11 FIELD MEASUREMENTS

A. THE HVAC CONTRACTOR SHALL VERIFY IN THE FIELD ALL MEASUREMENTS NECESSARY FOR THE WORK. VERIFY THERMOSTAT LOCATIONS WITH THE OWNER BEFORE INSTALLATION.

B. THE HVAC CONTRACTOR SHALL COORDINATE SUPPLY AND RETURN DUCTWORK LOCATIONS WITH STRUCTURE, CONDUITS AND PIPING OF OTHER TRADES.

1.12 WORKMANSHIP

A. EQUIPMENT AND MATERIALS SHALL BE NEW, OF FIRST QUALITY, SELECTED AND ARRANGED TO FIT PROPERLY INTO SPACES INDICATED. INSTALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1.13 COORDINATION WITH OWNER

A. ALL WORK SHALL BE SCHEDULED WITH THE OWNER. INTERRUPTIONS IN THE OWNER'S ACCESS TO THE SITE SHALL BE SUBJECT TO OWNER LIMITATIONS OF DATE AND DURATION.

1.14 OPERATION OF SERVICES AND UTILITIES

A. SHUTDOWN OF EXISTING SERVICES AND UTILITIES SHALL, WITHOUT EXCEPTION, BE COORDINATED WITH THE PROPER UTILITY AND WITH THE OWNER AS TO DATE, TIME OF DAY, AND DURATION BEFORE ANY SERVICE IS INTERRUPTED. NOTIFY THE OWNER OF ESTIMATED DURATION OF SHUTDOWN PERIOD AT LEAST TEN DAYS IN ADVANCE OF PROPOSED SHUTDOWN.

1.15 PROTECTION

A. CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIAL OR DAMAGING WATER. PROTECT EXISTING PROPERTY, EQUIPMENT AND FINISHES FROM DAMAGE. REPAIR, TO ORIGINAL CONDITION, EXISTING PROPERTY THAT HAS BEEN DAMAGED DURING EXECUTION OF THE WORK.

1.16 CLEANING

A. WORK SITE MUST BE KEPT CLEAN. RUBBISH, DEBRIS AND LEFTOVER OR EXCESS MATERIALS SHALL BE REMOVED DAILY.

1.17 PAINTING

A. MECHANICAL AND ELECTRICAL EQUIPMENT AND MATERIALS SHALL HAVE PRIME COAT AND STANDARD MANUFACTURER'S FINISH. PAINTING OF FINISHED SURFACES (EXCLUDING CEILINGS) SHALL BE ONE COAT PRIMER AND TWO COATS VINYL BASE SEMI-GLOSS PAINT. PAINTING OF CEILING SHALL BE ONE COAT PRIMER AND TWO COATS FLAT WHITE PAINT. PRIMER SHALL BE OMITTED ON REPAINTING OF EXISTING SURFACES.

1.18 CUTTING AND PATCHING

A. AREAS DISTURBED BY NEW CONSTRUCTION OR DEMOLITION SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING CONDITIONS. PATCH PAINTING OF CEILINGS SHALL INCLUDE PAINTING OF ENTIRE CEILING OF ROOM INVOLVED. PATCH PAINTING OF OTHER SURFACES SHALL BE TO NEAREST CUT-OFF POINT.

1.19 WATERPROOFING

A. PROVIDE NECESSARY SLEEVES, CAULKING AND FLASHING REQUIRED TO MAKE OPENINGS WATERPROOF.

1.20 FIREPROOFING

A. AT CLOSING OF EACH WORKING DAY, PROVIDE TEMPORARY FIRESTOPPING IN EVERY OPENING CUT BETWEEN FLOORS AND THROUGH FIRE-RATED PARTITIONS. PERMANENT FIRESTOPS SHALL BE PROVIDED AROUND SLEEVES AND AT OTHER PERMANENT OPENINGS THROUGH FIRE-RATED PARTITIONS AND FLOORS, AS REQUIRED. MATERIALS USED FOR FIRE STOPPING SHALL BE CLASS A "NONCOMBUSTIBLE" WITH FIRESTOPPING CAPABILITIES EQUAL TO THAT OF ADJACENT CONSTRUCTION.

1.21 BASES AND SUPPORTS

A. PROVIDE NECESSARY SUPPORTS, PADS, BASES AND PIERS REQUIRED. EQUIPMENT SHALL BE SECURELY ATTACHED TO BUILDING STRUCTURE IN ACCEPTABLE MANNER. ATTACHMENTS SHALL BE OF STRONG AND DURABLE NATURE, AS DETERMINED BY THE OWNER.

1.22 ACCESS

A. PROVIDE ADEQUATELY SIZED ACCESS DOORS, FOR ACCESS TO CONCEALED EQUIPMENT AND COMPONENTS REQUIRING SERVICING OR INSPECTION. DOORS SHALL HAVE FIRE RATINGS EQUAL TO CONSTRUCTION IN WHICH THEY ARE LOCATED.

1.23 TESTS

A. PERFORM TESTS REQUIRED BY THE OWNER, LEGAL AUTHORITIES AND AGENCIES. EACH PIECE OF EQUIPMENT, INCLUDING MOTORS AND CONTROLS, SHALL BE OPERATED CONTINUOUSLY FOR MINIMUM ONE-HOUR TEST. CORRECT ALL DEFECTS APPEARING DURING TESTS, AND REPEAT TESTS UNTIL NO DEFECTS ARE DISCLOSED. FINAL TESTS SHALL BE MADE IN THE OWNER'S PRESENCE.

1.24 INSTRUCTION TRAINING

A. COMPETENT TECHNICIANS SHALL PROVIDE ____ HOURS OF INSTRUCTION TO OWNER'S PERSONNEL. INSTRUCTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, FOLLOWING:

1. FAMILIARIZATION WITH HVAC CONTROL SYSTEM, HARDWARE AND OPERATION PROCEDURES.

2. FAMILIARIZATION WITH MANAGEMENT SYSTEM HARDWARE.

3. USE OF MANAGEMENT SYSTEM.

4. MODIFICATIONS OF SOFTWARE PACKAGES.

5. TROUBLE-SHOOTING AND SERVICE PROCEDURES.

PART 2 - PRODUCTS

2.1 MATERIALS AND METHODS

A. DUCTWORK:

1. ALL DUCTWORK AND ACCESSORIES SHALL BE CONSTRUCTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS MANUALS FOR LOW PRESSURE DUCTS, FIRE DAMPER INSTALLATIONS AND FLEXIBLE DUCTWORK.

2. FLEXIBLE DUCTS TO AIR OUTLETS SHALL BE UL CLASS 1 CONNECTORS WITH AIRTIGHT CORE, GALVANIZED WIRE HELIX AND PRE-INSULATED WITH ONE (1") INCH, 3/4 PCF FIBERGLASS WITH A FLAME RETARDANT VAPOR BARRIER. FLEXMASTER TYPE IX.

3. ALL AIR CONDITIONING, SUPPLY AND EXHAUST (EXCEPT KITCHEN EXHAUST), OUTSIDE AIR AND VENTILATION SYSTEMS DUCTWORK SHALL BE GALVANIZED SHEET METAL, TWO (2") INCH STATIC PRESSURE CLASSIFICATION, SEAL CLASS "C". RETURN AIR DUCTWORK TO BE ONE (1") INCH CLASSIFICATION.

NOTE: WHERE THE STATIC PRESSURE OR MAXIMUM VELOCITY OF A SUPPLY, RETURN OR EXHAUST DUCT SYSTEM EXCEEDS THE STANDARD PRESSURE CLASSIFICATIONS GIVEN ABOVE, THE DUCTWORK SHALL BE CONSTRUCTED TO THE PRESSURE CLASS WHICH EXCEEDS THAT SYSTEM'S PRESSURE.

4. PROVIDE AIRTIGHT, GASKETED ACCESS PANELS FOR CLEANING AT ALL CHANGES IN DIRECTION AND AT THE BASE OF ALL RISERS AND EVERY 20 FEET IN HORIZONTAL RUNS.

5. BOTTOM OF ACCESS PANELS SHALL BE AT LEAST 1-1/2" ABOVE THE BOTTOM OF THE DUCT. ASCERTAIN THAT ALL ACCESS PANELS ARE INDEED IN ACCESSIBLE LOCATIONS.

6. INSTALL ADEQUATE BALANCING; E.G., VOLUME DAMPERS, EXTRACTORS, ETC., AS REQUIRED TO BALANCE EACH SYSTEM TO ITS DESIGN AIRFLOWS.

7. FURNISH AND INSTALL UL LISTED FIRE DAMPERS AND ACCESS DOORS AT ALL DUCT PENETRATIONS OF WALLS, FLOORS, PARTITIONS, ETC., THAT ARE REQUIRED TO HAVE A FIRE RESISTANCE RATING. FIRE DAMPERS, SLEEVES, ACCESS DOORS, ETC., SHALL BE CONSTRUCTED AND INSTALLED IN CONFORMANCE TO THE MANUFACTURER'S INSTRUCTIONS, NFPA 90A AND THE BUILDING OFFICIAL.

D. INSULATION SYSTEMS:
1. DUCT SYSTEM INSULATION:

A. ACOUSTICAL LINING, WHERE SHOWN, SHALL BE NOMINAL 1" THICK FIBERGLASS DUCT LINER, UNLESS OTHERWISE INDICATED.

PART 3 - EXECUTION

3.1 FIRE STOPS

A. ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS OR FLOORS IN WHICH PIPES OR DUCTS PASS SHALL BE SEALED WITH A UL APPROVED FIRE-STOP FITTING CLASSIFIED FOR AN HOURLY RATING EQUAL TO THE RATING OF THE WALL, CEILING OR FLOOR.

3.2 REMOVAL, RELOCATION AND/OR ABANDONMENT

A. CERTAIN ITEMS OF EXISTING EQUIPMENT AND PIPING OR DUCTWORK MAY BE INDICATED FOR REMOVAL, RELOCATION OR ABANDONMENT. ITEMS NOTED FOR REMOVAL SHALL BE DISCONNECTED AND TURNED OVER TO THE OWNER OR DISPOSED OF BY THE CONTRACTOR IF THE OWNER SO REQUESTS. ITEMS NOTED FOR RELOCATION ARE INTENDED FOR REUSE IN ANOTHER LOCATION AS DESIGNATED ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE THE MATERIAL FROM ITS PRESENT LOCATION, STORE THE MATERIAL IN A SAFE PLACE AND REINSTALL THE MATERIAL IN ITS NEW LOCATION. QUESTIONS REGARDING THE SUITABILITY OF THE MATERIAL OR EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING. ABANDONMENT SHALL BE DEFINED AS ABANDONING IN PLACE ANY ITEM SO DESIGNATED AND SHALL INCLUDE PROPER PIPING OR DUCTWORK TERMINATION WITHIN ANY OCCUPIED OR OPEN AREA. ALL ABANDONED PIPES AND DUCTS SHALL BE DISCONNECTED AND CAPPED AT THEIR MAINS. ALL ABANDONED PIPES SHALL BE CAPPED.

3.3 BALANCING AIR AND WATER SYSTEMS

A. THIS CONTRACT IS FOR ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR THE AIR AND WATER SYSTEMS.

B. AIR SYSTEMS TO BE BALANCED INCLUDE AIR CONDITIONING, MAKE-UP AND EXHAUST SYSTEMS. BALANCING SHALL INCLUDE REBALANCING (ADJUSTING OF SHEAVES AND REPLACING BELTS AND MOTORS AS INDICATED) OF EXHAUST FANS, ROOFTOP AIR CONDITIONING UNITS AND MAKE-UP AIR UNITS AS REQUIRED TO PROVIDE AIR FLOWS SPECIFIED. THE BALANCING CONTRACTOR SHALL SECURE A SET OF AS-BUILT DUCTWORK PLANS PRIOR TO COMMENCING WORK.

C. THE BALANCING CONTRACTOR SHALL ATTEND A COORDINATION MEETING WITH THE HVAC AND ATCS CONTRACTORS TO COORDINATE SENSOR LOCATIONS.

D. UPON COMPLETION OF ALL TESTS AND BALANCING OPERATIONS, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF THE CERTIFIED BALANCING REPORT TO THE GENERAL CONTRACTOR. THIS REPORT SHALL INCLUDE ALL DATA FOR EACH OF THE AIR AND WATER SYSTEMS.

E. BALANCING OF SYSTEMS SHALL BE FOLLOWED UP AFTER BUILDING IS OCCUPIED; ANY REBALANCING SHALL BE DONE AS REQUIRED TO MEET OCCUPANT'S REQUIREMENTS WITHOUT EXTRA CHARGE.

END OF SECTION

QA+M architecture
QuinnenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina

PROJECT NO.: 2023088.00

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: 2387

Revisions

Issue Dates:

N

CONSTRUCTION DOCUMENTS
01/26/2024

M601

SWITCHES

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S_3	3-WAY SWITCH
S_4	4-WAY SWITCH
S_P	SINGLE-POLE SWITCH WITH PILOT LIGHT
S_D	SINGLE-POLE DIMMER SWITCH
S_{D3}	3-WAY DIMMER SWITCH
S_T	MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION
S_O	OCCUPANCY SENSOR WALL SWITCH
S_V	VACANCY SENSOR WALL SWITCH
DL	DAYLIGHT SENSOR - WALL MOUNT
DL	DAYLIGHT SENSOR - CEILING MOUNT
OS P,U	CEILING MOUNTED OCCUPANCY SENSOR; SUB-LETTER INDICATES TYPE - REFER TO SPECIFICATIONS
OS P,U	WALL MOUNTED OCCUPANCY SENSOR; SUB-LETTER INDICATES TYPE - REFER TO SPECIFICATIONS
PP	POWER PACK FOR OCCUPANCY SENSOR
DES a	LIGHTING CONTROL SYSTEM - DOOR ENTRY STATION - REFER TO SPECIFICATIONS AND / OR DETAILS FOR ADDITIONAL INFORMATION
C	CONTACTOR, COMPLETE WITH NEMA ENCLOSURE
	PUSHBUTTON SWITCH
HD G	EMERGENCY GAS SHUT-OFF SWITCH
HD KG	GAS MASTER EMERGENCY SHUT-OFF / KEYED RESET SWITCH
	SOLENOID VALVE

150918

SPECIAL SYSTEMS

SYMBOL	DESCRIPTION
	COMBINATION DATA / TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE
	DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE
a	DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE. SUBLETTER "a" INDICATES OUTLET TO BE MOUNTED 6" ABOVE COUNTER TOP OR AT 48" AFF
b	DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE. SUBLETTER "b" INDICATES OUTLET TO BE MOUNTED IN ARCHITECTURAL MILLWORK
WA	CEILING MOUNTED DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED TO ACCESSIBLE CEILING, INCLUDING DRAG LINE (WA INDICATE WIRELESS ACCESS POINT)
TV	TV CABLE OUTLET, COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL ELEVATIONS
IC	PA / SOUND SYSTEM HANDSET OR INTERCOM STATION
E PC	EMERGENCY CALL-FOR-AID PULL CORD SWITCH
E PB	EMERGENCY CALL-FOR-AID PUSHBUTTON SWITCH
E	EMERGENCY CALL-FOR-AID AUDIO / VISUAL INDICATING UNIT
	VERTICAL LADDER CABLE RACK
D F,W	FLUSH COMMUNICATION OUTLET WITH LFMC WHIP CONNECTION TO FURNITURE PARTITION SYSTEM (WALL OR FLOOR)

150918

NORMAL LIGHTING

SYMBOL	DESCRIPTION (SUB-LETTER INDICATES FIXTURE TYPE)
	CEILING MOUNTED DOWNLIGHT FIXTURE
	WALL-MOUNTED FIXTURE
	CEILING-MOUNTED 2'x4' LIGHT FIXTURE
	DUAL BALLAST 2'x4' CEILING-MOUNTED LIGHT FIXTURE
	CEILING-MOUNTED 1'x4' LIGHT FIXTURE
	CEILING-MOUNTED 6"x4' LIGHT FIXTURE
	WALL-MOUNTED LINEAR LIGHT FIXTURE
	CEILING-MOUNTED 2'x2' LIGHT FIXTURE
	LINEAR CONTINUOUS LIGHT FIXTURE
	WALL WASHER LIGHT FIXTURE
	POWER LIGHT TRACK WITH QUANTITY OF FIXTURES AS INDICATED ON PLANS

150918

FIRE ALARM

SYMBOL	DESCRIPTION
	FIRE ALARM SMOKE DETECTOR
H 200	HEAT DETECTOR, 135° FIXED RATE OF RISE. HEAT RATING INDICATED BY NOTATION OTHER THAN 135°
D	DUCT MOUNTED SMOKE DETECTOR
C	COMBINATION SMOKE DETECTOR WITH CARBON MONOXIDE DETECTOR
RIL	FIRE ALARM REMOTE INDICATOR LIGHT FOR DETECTOR
RTS	REMOTE DUCT SMOKE DETECTOR TEST SWITCH / INDICATOR
AIM	ADDRESSABLE INTERFACE MODULE
F	FIRE ALARM VISUAL INDICATING UNIT SUB-LETTER "#" INDICATES SPECIAL CANDELA RATING
F S	FIRE ALARM AUDIO / VISUAL INDICATING UNIT WITH SPEAKER: SUB-LETTER "H" INDICATES HORN SUB-LETTER "CH" INDICATES CHIME SUB-LETTER "HO" INDICATES HIGH AMBIENT AUDIO OUTPUT SUB-LETTER "A" AUDIBLE ONLY SUB-LETTER "C" INDICATES CEILING MOUNTED SUB-LETTER "#" INDICATES SPECIAL CANDELA RATING
F B	FIRE ALARM BELL / GONG
F	MANUAL FIRE ALARM PULL STATION
FS	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM FLOW SWITCH
SS	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM SUPERVISORY SWITCH
PS	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM PRESSURE SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
SD	SMOKE DAMPER OR FIRE / SMOKE DAMPER
K	FIREFIGHTER'S KNOX BOX

180817

POWER DEVICES

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL 208 / 120 VOLT
	SPECIAL-PURPOSE ELECTRICAL PANEL OR EQUIPMENT CABINET
	MAGNETIC STARTER
F	FUSED DISCONNECT SWITCH
F	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH
	ELECTRIC MOTOR
VFD	VARIABLE FREQUENCY DRIVE
J	JUNCTION BOX
R	RELAY
Tx EF	ELECTRONIC FAUCET / FLUSH VALVE CONTROL TRANSFORMER
Tx TP	TRAP PRIMER SOLENOID TRANSFORMER
J PS	MOTORIZED PROJECTION SCREEN POWER CONNECTION BOX
J MS	MOTORIZED SHADE POWER CONNECTION BOX
J FC	FAN COIL UNIT POWER CONNECTION BOX
J HD	ELECTRIC HAND DRYER POWER CONNECTION BOX
	COMBINATION POWER / DATA SERVICES POLE
P F,W	FLUSH POWER OUTLET WITH LFMC WHIP CONNECTION TO FURNITURE PARTITION SYSTEM (WALL OR FLOOR)

150918

EMERGENCY LIGHTING

SYMBOL	DESCRIPTION (SUB-LETTER INDICATES FIXTURE TYPE)
	CEILING MOUNTED DOWNLIGHT FIXTURE ON EMERGENCY
	CEILING-MOUNTED LIGHT FIXTURE ON EMERGENCY
	CEILING MOUNTED 1'X4' LIGHT ON EMERGENCY
	CEILING MOUNTED 6"X4' LIGHT ON EMERGENCY
	SINGLE-FACED CEILING OR WALL-MOUNTED, EXIT SIGN WITH CHEVRONS AS INDICATED ON PLANS
	DOUBLE-FACED CEILING OR WALL-MOUNTED, EXIT SIGN WITH CHEVRONS AS INDICATED ON PLANS
	EXIT SIGN DIRECTIONAL ARROWS
	CEILING OR WALL-MOUNTED, SELF CONTAINED EMERGENCY LIGHT UNIT; FIXTURE SHALL MONITOR LIGHTING CIRCUIT IN AREA
	SINGLE OR DUAL HEAD, REMOTE EMERGENCY LIGHT

150918

ABBREVIATIONS

SYMBOL	DESCRIPTION
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
C	CONDUIT
CATV	CABLE TELEVISION
C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CIR	CIRCUIT
CUH	CABINET UNIT HEATER
CT	CABLE TRAY
ER	EXISTING TO REMAIN
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FUSED
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METALLIC CONDUIT
FUT	FUTURE
G / GND	GROUND
GFI / GFCI	GROUND FAULT INTERRUPTER
LFMC	LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT
MAU	MAKE-UP AIR UNIT
MCA	MINIMUM CIRCUIT AMPACITY
MD	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NF	NON-FUSED
NL	NIGHT LIGHT
NO	NORMALLY OPEN
P	POLE (SPACE IN PANELBOARD)
PE	PRIMARY ELECTRIC SERVICE
PVC	POLYVINYL CHLORIDE CONDUIT
RE	REMOVE EXISTING
REF	REFRIGERATOR
RMC	RIGID METALLIC CONDUIT
RTU	ROOFTOP UNIT
SD	SMOKE DAMPER
SE	SECONDARY ELECTRIC SERVICE
S&P	SPACE AND PROVISION
T	TELEPHONE SERVICE
TCP	TEMPERATURE CONTROL PANEL
TV	TELEVISION
TX	TRANSFORMER
TYP	TYPICAL
UNV	UNIVERSAL
VAC	VOLTS AC
W	WIRE OR WATTS
WA	WIRELESS ANTENNA
WG	WIRE GUARD
WM	SURFACE MOUNTED RACEWAY
WP	WEATHERPROOF

150918

SECURITY / ACCESS CONTROL

SYMBOL	DESCRIPTION
	DOOR / WINDOW CONTACT
C	VIDEO CAMERA LOCATION
J C	JUNCTION BOX FOR FUTURE CAMERA; 3/4"C TO IDF / MDF
CR	CARD READER / PROXIMITY READER
KP	KEY PAD
	PUSH BUTTON FOR DOOR RELEASE
RE	REQUEST TO EXIT / ENTER DEVICE
ML	MAGNETIC LOCK
ES	ELECTRIC STRIKE
EL	ELECTRIC LOCK
EH	ELECTRIC HINGE
EDO	ELECTRIC DOOR OPERATOR
EDO MH	ELECTRIC DOOR OPERATOR WITH SMOKE DOOR MAGNETIC HOLD OPEN
EDO	ELECTRIC DOOR OPERATOR PUSH PLATE ACTUATOR

150918

ONE-LINE

SYMBOL	DESCRIPTION
	CURRENT TRANSFORMER
	SWITCH
	CIRCUIT BREAKER
	GROUND
	THERMAL OVERLOAD
C	RELAY / COIL
	MAIN CIRCUIT BREAKER PANELBOARD
XX XX	SHORT CIRCUIT DATA POINT / FAULT CURRENT VALUE
M	UTILITY METER
M	OWNERS POWER METER
	N/O CONTACT
	N.C. CONTACT
	POINT OF CONNECTION BETWEEN EXISTING AND NEW WORK
	MAIN LUG ONLY PANELBOARD
XXXAF XXXAT	CIRCUIT BREAKER WITH AMP FRAME OVER AMP TRIP
	POINT OF CONNECTION / WIRE TAP

150918

RECEPTACLES

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE. COORDINATE LOCATION WITH ARCHITECT
a	DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF
b	DUPLEX RECEPTACLE; SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK
	DOUBLE DUPLEX RECEPTACLE. COORDINATE LOCATION WITH ARCHITECT
a	DOUBLE DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48"AFF
b	DOUBLE DUPLEX RECEPTACLE; SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK
	DUPLEX RECEPTACLE-ONE OUTLET SWITCHED
©	DUPLEX RECEPTACLE CONTROLLED BY AUTOMATIC DEVICE; PROVIDE ANNOTATION ENGRAVED ON RECEPTACLE BODY
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
	FLUSH FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE
	SPECIAL-PURPOSE OUTLET. AMPERAGE AND VOLTAGE AS INDICATED ON PLANS. CONTRACTOR TO VERIFY CONNECTION / NEMA CONFIGURATION REQUIREMENTS WITH EQUIPMENT BEING FURNISHED
CH	DUPLEX RECEPTACLE WITH USB CHARGER PORT
WP	DUPLEX RECEPTACLE WITH WEATHER-PROOF IN-USE HOUSING
GFI	GROUND FAULT CIRCUIT INTERRUPTER-STYLE DUPLEX RECEPTACLE
TV	DUPLEX RECEPTACLE FOR TELEVISION. COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL ELEVATIONS
TR	DUPLEX RECEPTACLE - TAMPER RESISTANT
	SURFACE RACEWAY WITH OUTLETS AS INDICATED ON PLANS, MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED
	SURFACE MOUNTED RACEWAY WITH FEED POINT

150918

WIRING

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT WIRING
	BRANCH CIRCUIT SWITCHED WIRING
	CONDUIT UP
	CONDUIT DOWN
OR	HOME RUN. 3/4" CONDUIT, 2#12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED. NOTE: HOME RUN SHALL BE FROM FIRST ELECTRICAL DEVICE BACKBOX IN CIRCUIT TO ELECTRICAL PANEL

150918

LEGEND NOTE

THESE LEGENDS AND ABBREVIATIONS DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

150918

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina
PROJECT NO.: 2023088.00

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: 2387

Revisions

Issue Dates:

N

CONSTRUCTION DOCUMENTS
01/26/2024

ELECTRICAL LEGENDS

E001

GENERAL SITE ELECTRICAL NOTES

A. CONTRACTOR SHALL VERIFY ALL EXISTING SERVICE LOCATIONS.

B. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY COMPANY CHARGES.

C. COORDINATE ALL SERVICE ENTRANCE WORK WITH OWNER AND UTILITY COMPANIES. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF EQUIPMENT.

D. IF AREA IS BEING EXCAVATED, ABANDONED ELECTRICAL SHALL BE REMOVED. (REMOVE CONDUCTORS AND CONDUIT). IF NO SITE WORK IS BEING DONE IN THESE AREAS, REMOVE CONDUCTORS AND ABANDON CONDUIT IN PLACE AND CAP.

E. SEAL ALL POWER CONDUITS WITH CABLES AT THE LAST STRUCTURE PRIOR TO CONDUITS ENTERING A BUILDING AND WHERE CONDUITS ENTER A BUILDING WITH CONDUIT SEALING BUSHINGS PER SPECIFICATIONS AND DETAILS. SEAL ALL SPARE POWER CONDUITS WITH BLANK DUCT PLUGS EQUAL TO TYCO ELECTRONICS "JACKMOON" OR EQUAL.

160220

COMMUNICATIONS GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH ALL OTHER TRADES BEFORE STARTING CONSTRUCTION.

B. COORDINATE WITH CONSTRUCTION MANAGER, OTHER TRADES AND THE OWNER DURING ALL PHASES. ALL COMMUNICATIONS MUST BE MAINTAINED AT ALL TIMES UNLESS PHASING REQUIRES OTHERWISE. INTERRUPTIONS AND SHUTDOWNS SHALL BE SCHEDULED IN ADVANCE AND APPROVED FOR TIME TO COMPLETE WORK. TAG CABLES TO REMAIN DURING ALL PHASES TO PROPERLY KEEP THE TELECOMMUNICATIONS ACTIVE. UPON COMPLETION OF CONSTRUCTION, ANY CABLES THAT ARE NOT ACTIVE OR TAGGED TO REMAIN FOR FUTURE SHALL BE REMOVED PER THE NEC.

C. BEFORE CONSTRUCTION CAN BEGIN IN ANY COMMUNICATIONS EQUIPMENT ROOM THE CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCES OF ALL EQUIPMENT WITH THE OWNER FOR APPROVAL.

D. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL WALL MOUNTED AND FLOOR MOUNTED DEVICES. COORDINATE WITH ARCHITECT ON COLORS. CONTACT ARCHITECT FOR CLARIFICATION OF MOUNTING REQUIREMENTS, IF INFORMATION IS NOT CONTAINED IN THESE DRAWINGS.

E. REFER TO REFLECTIVE CEILING PLANS FOR FLUSH MOUNTED CEILING DEVICES.

F. TELECOMMUNICATIONS EQUIPMENT ROOMS SHALL HAVE MINIMUM 3/4" A/C QUALITY, VOID FREE, FIRE RATED PLYWOOD BACKBOARDS ON WALLS, MOUNTED 6" AFF, AS SHOWN ON PART PLANS. PAINT ALL SIX SIDES WITH TWO COATS OF MATTE WHITE (OR COLOR BY OWNER) FIRE RETARDANT PAINT.

G. COORDINATE PROPER GROUNDING AND BONDING OF ALL APPLICABLE EQUIPMENT WITH BCT TO THE TGB AND THE TMGB PER DIVISION 27 SPECIFICATIONS, ANSI/TIA-607-C AND THE NEC.

H. PROVIDE SEPARATION BETWEEN RACEWAYS, CABLES, AND OTHER SOURCES OF EMI PER ANSI/TIA-569-D.

I. ELBOW RADIUS FOR RACEWAYS SMALLER THAN 2" TO BE SIX (6) TIMES THE RACEWAY DIAMETER. ELBOW RADIUS FOR CONDUITS 2" OR LARGER TO BE TWELVE (12) TIMES THE RACEWAY DIAMETER.

J. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A NYLON PULL STRING (PLENUM RATED IF IN A PLENUM SPACE).

K. COORDINATE PROPER METHODS FOR PENETRATIONS WITH FIRESTOPPING AS REQUIRED THROUGH FIRE/SMOKE RATED CONSTRUCTION PER DIVISION 07 SPECIFICATIONS.

L. NO PENETRATIONS ARE PERMITTED INTO ANY STAIRWELLS EXCEPT SYSTEMS SERVING THAT STAIRWELL.

M. COMMUNICATIONS CONDUITS AND CABLING FOR SERVICE ENTRANCE SHALL BE PROVIDED PER SITE UTILITY DRAWINGS, ELECTRICAL POWER DRAWINGS AND DIVISION 26 SPECIFICATIONS.

N. COORDINATE SERVICE PROVIDER DEMARCATION POINTS WITH CONSTRUCTION MANAGER AND OWNER.

O. LADDER RACKS, CONDUITS, D-RINGS ETC. FOR CABLE SUPPORT IN ANY COMMUNICATIONS EQUIPMENT ROOM SHALL BE PROVIDED PER PLANS AND DIVISION 27 SPECIFICATIONS.

160220

GENERAL ELECTRICAL DEMOLITION NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT WITHIN DESIGNATED AREA, EXCEPT WHERE MARKED OTHERWISE, i.e. LIGHTING, SWITCHES, OUTLETS, PANELBOARDS, ASSOCIATED WIRING BACK TO SOURCE OR TO LAST ACTIVE DEVICE, CONDUIT, ETC. IN PREPARATION FOR NEW WORK. THIS WORK INCLUDES COMPLETE DEMO AND IS NOT LIMITED TO THE EQUIPMENT SHOWN ON DEMO PLANS.

B. REMOVE ALL EXISTING LOW VOLTAGE SYSTEMS AND EQUIPMENT WITHIN DESIGNATED AREA, INCLUDING BUT NOT LIMITED TO, TELEPHONE, DATA, TV, A/V, P.A., CLOCK AND SECURITY SYSTEMS (INCLUDING OUTLETS, ETC. AND ASSOCIATED WIRING) BACK TO SOURCE OR TO LAST ACTIVE DEVICE.

C. REMOVE EXISTING FIRE ALARM SYSTEM IN AREA DESIGNATED INCLUDING BUT NOT LIMITED TO, FIRE ALARM DEVICES, WIRING, CONDUIT, BOXES, PANELS, ETC. COORDINATE REMOVAL WORK WITH INSTALLATION OF NEW FIRE ALARM SYSTEM SUCH THAT AN OPERATIONAL FIRE ALARM SYSTEM IS MAINTAINED THROUGHOUT PERIODS OF BUILDING OCCUPATION. COORDINATE ANY SERVICE SHUT-DOWN WITH LOCAL FIRE OFFICIAL AND OWNER. PROVIDE FIRE WATCH AS REQUIRED.

D. DISCONNECT AND REMOVE EXISTING WIRING, CONDUIT, BOXES, ETC. SERVING ALL EQUIPMENT BEING REMOVED BY MECHANICAL AND OTHER TRADES. REFER TO PLUMBING, MECHANICAL AND ARCHITECTURAL DRAWINGS FOR COORDINATION OF REQUIRED WORK. REMOVALS SHALL BE BACK TO SOURCE PANEL COMPLETE.

E. EXISTING ELECTRICAL ITEMS THAT ARE BEING DISCONNECTED AND REMOVED AND NOT BEING REUSED SHALL BE DISPOSED OF PROPERLY.

F. ALL ABANDONED ELECTRICAL WIRING AND DEVICES SHALL BE REMOVED.

G. IF CONTINUITY OF WIRING TO EXISTING ELECTRICAL ITEMS IS INTERRUPTED BY REMOVAL OF DEVICES, CONTRACTOR SHALL INSTALL ALL NECESSARY WIRING AND RACEWAY TO ENSURE THE CONTINUITY OF CIRCUITRY IN OTHER AREAS.

H. WIRING FOR ITEMS BEING REMOVED SHALL BE REMOVED BACK TO POWER SOURCE OR LAST DEVICE TO REMAIN ACTIVE UNLESS NOTED OTHERWISE.

I. NOTIFY CONSTRUCTION MANAGER OR GENERAL CONTRACTOR OF OPENINGS CAUSED BY REMOVAL OF EXISTING EQUIPMENT NOT BEING REPLACED. ENSURE THE PATCHING IS COMPLETE.

J. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL RELATED WORK.

K. ALL EXISTING EXPOSED RACEWAY THAT IS SERVING DEVICES IN FINISHED AREAS THAT ARE TO REMAIN SHALL BE REMOVED AND REPLACED WITH NEW CONCEALED CONDUIT/RACEWAY AND CONDUCTORS TO SERVE DEVICES.

L. INSTALL BLANK COVER PLATES ON RECESSED OUTLET BOXES ABANDONED UNDER THIS CONTRACT IN WALLS THAT ARE TO REMAIN.

M. WHERE POWER AND TEL/DATA OUTLETS EXIST ON WALLS TO BE FURRED OUT, THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL DEVICES AND PLATES AND PROVIDE BOX EXTENSIONS AS NECESSARY TO EXTEND THE OUTLETS TO THE NEW SURFACES.

N. REMOVE DEVICE PLATES (AND DEVICES WHERE NECESSARY) TO ACCOMMODATE NEW WALL FINISHES. REINSTALL COVER PLATES AND DEVICES AFTER NEW FINISHES ARE COMPLETE.

160220

GENERAL ELECTRICAL NOTES

A. ALL HOMERUNS/CIRCUITS TO BE 2#12, 1#12G., 3/4"C TO A 20A-1P CIRCUIT BREAKER IN DESIGNATED PANEL, UNLESS NOTED OTHERWISE. NUMBERS SHOWN AT EACH DEVICE/HOMERUN REPRESENT CIRCUIT NUMBER IN PANELBOARD.

B. WIRE AND RACEWAY SIZES INDICATED ON HOMERUNS/CIRCUITS SHALL BE CONTINUOUS FOR ENTIRE LENGTH, UNLESS NOTED OTHERWISE.

C. ALL WIRING (CONDUITS, ETC.) TO BE CONCEALED. NO SURFACE WIRING SHALL BE INSTALLED IN FINISHED AREAS. THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CHANNELING REQUIRED OF EXISTING WALLS AND FLOORS TO ACCOMMODATE NEW WIRING. SEE PATCHING SPECIFICATIONS, FLOOR PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION ON ARCHITECTURAL AND WIRING ROUTING.

D. ALL WIRING ABOVE CEILING THAT IS NOT IN CONDUIT AND IS LOCATED IN A PLENUM SPACE SHALL BE PLENUM RATED. REFER TO MECHANICAL PLANS FOR PLENUM AREAS.

E. ELECTRICAL CONDUITS, WIRING, BOXES, ETC. SHALL NOT PENETRATE STAIR ENCLOSURE, UNLESS THEY ARE FEEDING DEVICES LOCATED WITHIN THE STAIR ENCLOSURE.

F. PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.

G. ALL INDIVIDUAL OR GENERAL PURPOSE BRANCH 120 VOLT CIRCUITS OVER 100'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED ONE WIRE SIZE (i.e. FROM #12AWG TO #10AWG) AND CIRCUITS OVER 170'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED TWO WIRE SIZES (i.e. FROM #12AWG TO #8AWG) UNLESS NOTED OTHERWISE.

H. ALL INDIVIDUAL OR GENERAL PURPOSE BRANCH 277 VOLT CIRCUITS OVER 230'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED ONE WIRE SIZE (i.e. FROM #12AWG TO #10AWG) AND CIRCUITS OVER 380'-0" IN CONDUCTOR LENGTH SHALL BE INCREASED TWO WIRE SIZES (i.e. FROM #12AWG TO #8AWG,) UNLESS NOTED OTHERWISE.

I. SEAL ALL CONDUITS AT THE LAST STRUCTURE PRIOR TO CONDUITS ENTERING A BUILDING PER SPECIFICATIONS AND DETAILS. ALL SPARE CONDUITS SHALL HAVE NYLON PULL STRING AND FOOTAGE TAPE.

J. RACEWAY AND WIRING INDICATED ON DRAWINGS ARE RECOMMENDATIONS FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL ROUTING.

K. ALTHOUGH ALL FEEDER AND BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SPECIFICALLY SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE FEEDER AND BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.

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LEGEND NOTE

THESE LEGENDS AND ABBREVIATIONS DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

150918

GENERAL POWER NOTES

A. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, FIRE ALARM DEVICES, ETC. WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS PRIOR TO START OF WORK, REQUEST CLARIFICATIONS FROM ARCHITECT PRIOR TO INSTALLATION.

B. ANY RECEPTACLE LOCATED WITHIN 6'-0" OF EDGE OF SINK SHALL BE A GFI RECEPTACLE OR PROTECTED BY A GFI CIRCUIT BREAKER.

C. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION, ETC.) EQUIPMENT. REFER TO DRAWINGS FOR EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.

D. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE MINIMUM 24 INCH HORIZONTAL SPACING IN FIRE RATED WALLS. MOUNT LOW VOLTAGE AND POWER OUTLETS IN DIFFERENT STUD WALL CAVITIES.

E. WHEN THE COMBINING OF CIRCUITS OR HOMERUNS IS PERMITTED ELSEWHERE IN THE CONTRACT DOCUMENTS, RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS) PLUS GROUNDING CONDUCTORS UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL FOR EACH SINGLE PHASE CIRCUIT, UNLESS "OVERSIZED" NEUTRAL IS PROVIDED AS PART OF MANUFACTURED ASSEMBLY. IF MANUFACTURED ASSEMBLIES ARE PROVIDED WITH "OVERSIZED" NEUTRALS, PROVIDE MATCHING "OVERSIZED" NEUTRALS FROM SOURCE PANEL TO MANUFACTURED ASSEMBLY.

F. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUIT SYSTEMS FOR USE IN INSTALLING SYSTEM WIRING.

G. CONTACT OWNER IT DEPARTMENT FOR COORDINATION OF EXACT LOCATION OF ALL TELECOMMUNICATION OUTLETS, SECURITY DEVICES, VIDEO OUTLETS, AMPLIFIER, SPEAKERS, ETC. PROVIDE ALL REQUIRED RACEWAY FOR THESE SYSTEMS FOR A COMPLETE INSTALLATION. SEE ELECTRICAL, AND ARCHITECTURAL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

H. COORDINATE EXACT LOCATION OF JUNCTION BOX FOR EQUIPMENT WHICH IS FURNISHED BY OWNER OR OTHERS WITH EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION. PROVIDE WIRING FROM JUNCTION BOX TO EQUIPMENT CONNECTION AS REQUIRED.

I. COORDINATE EXACT LOCATION OF MODULAR SYSTEMS FURNITURE POWER AND DATA/TELEPHONE ENTRANCE LOCATIONS WITH FURNITURE SUPPLIER PRIOR TO CONSTRUCTION.

J. WIRING INDICATED BY CIRCUIT NUMBER SYMBOL SHALL INCLUDE A NEUTRAL WHEN THE LOAD SERVED HAS PROVISIONS FOR, OR REQUIRES A NEUTRAL. TYPICALLY, ALL FEEDERS AND BRANCH CIRCUITS WILL REQUIRE A NEUTRAL, EXCEPT MOST MOTOR CIRCUITS.

160220

GENERAL FIRE ALARM NOTES - NEW

A. FIRE ALARM SYSTEM WIRING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 760 AND AS RECOMMENDED BY THE MANUFACTURER OF THE FIRE ALARM SYSTEM. ALL WIRES SHALL BE COLOR CODED. NUMBER AND SIZE OF CONDUCTORS SHALL BE AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER, BUT NOT LESS THAN #18 AWG FOR INITIATING DEVICE CIRCUITS AND #14 AWG FOR NOTIFICATION DEVICE CIRCUITS.

B. FIRE ALARM WIRING SHALL BE RUN IN 3/4" EMT MINIMUM; CONDUIT FILL SHALL NOT EXCEED 40% FILL. NEW DEVICES SHALL BE SECURELY AFFIXED TO BUILDING SURFACES.

C. NEW JUNCTION BOXES, PULL BOXES AND OUTLETS BOXES IN THE FIRE ALARM SYSTEM SHALL BE PAINTED RED. COVERS SHALL BE PAINTED RED AND IDENTIFIED WITH WHITE MARKINGS AS "FA" FOR JUNCTION BOXES. LETTERING SHALL BE MINIMUM OF 3/4" HIGH.

D. TEST EVERY NEW DEVICE AND OPERATION, INCLUDING TEST BY SIMULATION OF TROUBLE IN THE PRESENCE OF THE OWNER. NOTIFY THE OWNER AND INTERESTED PARTIES OF TEST 72 HOURS IN ADVANCE.

E. AS PART OF THE FIRE ALARM EQUIPMENT SUBMITTAL PACKAGE THE ELECTRICAL CONTRACTOR SHALL FURNISH BATTERY CALCULATIONS INDICATING ADDITIONAL BATTERY CAPACITY REQUIRED TO POWER ALL NEW FIRE ALARM SYSTEM DEVICES INCLUDED AS PART OF THIS PROJECT.

F. THE FIRE ALARM SYSTEM DESCRIBED SHALL BE INSTALLED, TESTED AND DELIVERED TO THE OWNER IN FULLY OPERATIONAL AND FIRST-CLASS CONDITION BY AN AUTHORIZED MANUFACTURER'S FIRE ALARM SYSTEM AGENT ONLY. WORK ON THE FIRE ALARM SYSTEM SHALL INCLUDE ALL HARDWARE, RACEWAYS, INTERCONNECTING WIRING, SOFTWARE AND PROGRAMMING TO ACCOMPLISH THE REQUIREMENTS OF THIS CONTRACT. THE FIRE ALARM EQUIPMENT SUPPLIER SHALL HAVE A MINIMUM OF TEN (10) YEARS PREVIOUS EXPERIENCE WITH FACILITY OPERATIONS AND REQUIREMENTS.

G. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

160220

GENERAL LIGHTING NOTES

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR FINAL LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.

B. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR FINAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING.

C. REFER TO DRAWINGS FOR TYPICAL LIGHTING WIRING SCHEMATICS.

D. REFER TO DRAWINGS FOR LIGHTING FIXTURE SCHEDULE.

E. SWITCHING SHOWN ON PLANS DOES NOT SHOW SWITCH LEG/TRACER WIRE BETWEEN SWITCHES. PROVIDE ALL REQUIRED WIRING FOR SWITCHING OF LIGHTING.

F. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED TO THE LINE SIDE OF LIGHTING CIRCUIT SERVING THE SAME AREA, SUCH THAT THEY HAVE CONTINUOUS ILLUMINATION, CHARGING AND AC CIRCUIT MONITORING.

G. LIGHTING FIXTURES NOTED WITH THE SUBSCRIPT 'NL' (NIGHT LIGHT) SHALL BE WIRED FOR CONTINUOUS NON-SWITCHED ILLUMINATION.

H. EMERGENCY BATTERY UNITS AND BATTERY BALLASTS SHALL BE WIRED AHEAD OF ANY SWITCHED LEGS ON LOCAL EMERGENCY LIGHTING BRANCH CIRCUIT SERVING THE SAME AREA, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING, AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF LOCAL POWER.

I. LIGHT FIXTURES IN MECHANICAL ROOMS ARE SHOWN FOR QUANTITY ONLY. COORDINATE LIGHT FIXTURE LOCATIONS WITH THE MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. IN MECHANICAL ROOM TO GIVE ADEQUATE WELL DISTRIBUTED ILLUMINATION LEVELS THROUGHOUT THE SPACE.

J. CONNECT UNDERCABINET LIGHTING TO LOCAL NON-COMPUTER BRANCH RECEPTACLE CIRCUIT.

K. A SWITCH IN A SPACE SHALL CONTROL LIGHTING IN THAT SPACE UNLESS OTHERWISE INDICATED.

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QA+M architecture
QuinebaugArcanMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

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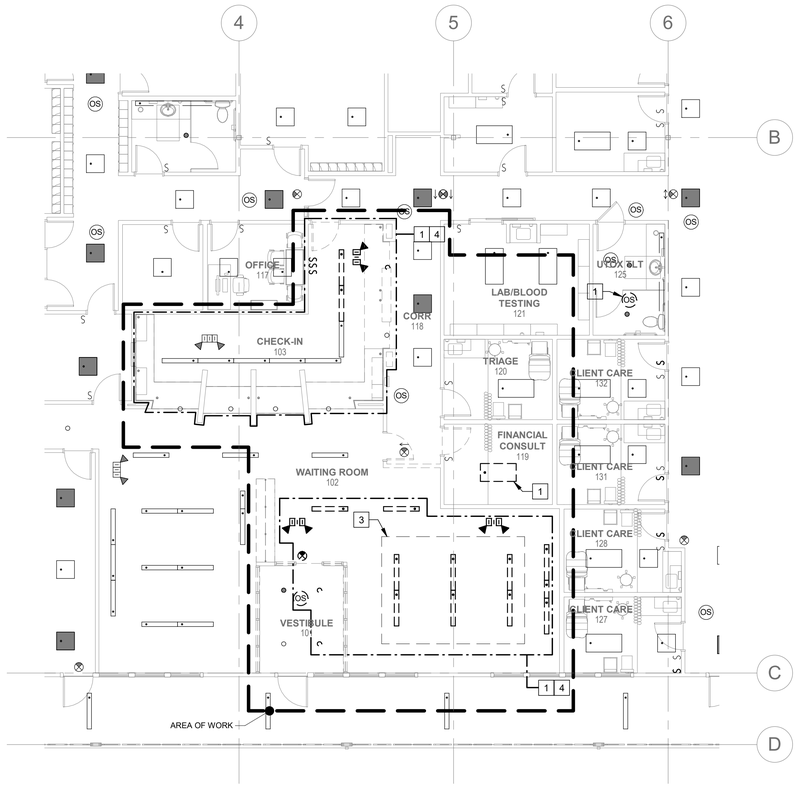
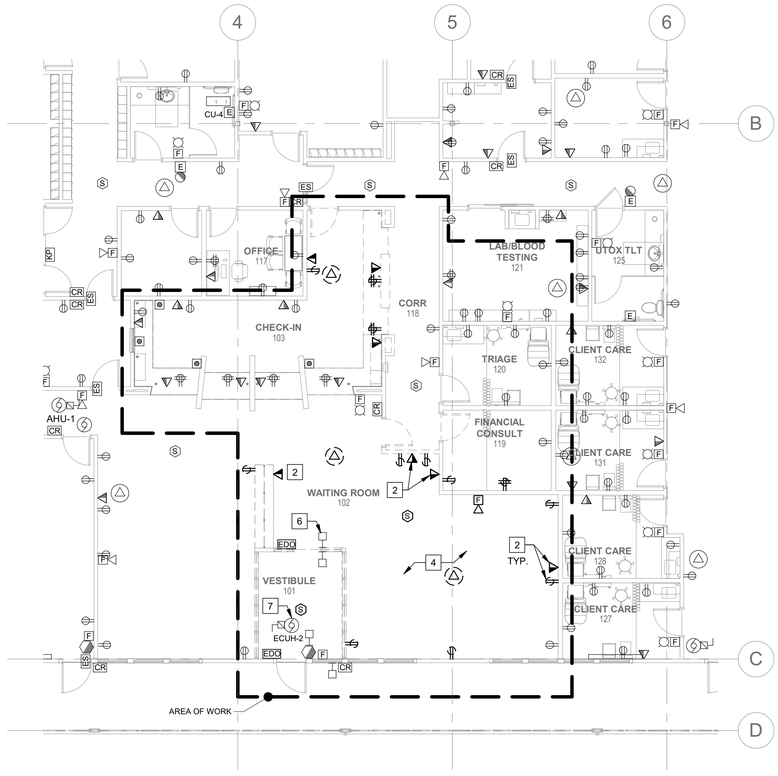
ELECTRICAL GENERAL NOTES

E002



1 ELECTRICAL LIGHTING DEMOLITION PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL POWER DEMOLITION PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

REMOVE ALL ELECTRICAL DEVICES SHOWN TO BE DEMOLISHED IN PROJECT AREAS. REFER TO "GENERAL ELECTRICAL DEMOLITION NOTES" ON DRAWING #E002 FOR ADDITIONAL INFORMATION.

ELECTRICAL DEMOLITION NOTES

1. EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS WITHIN AREA OF WORK TO BE REMOVED. CONTRACTOR TO PRESERVE EXISTING BRANCH WIRING FOR REUSE FOR NEW SCOPE OF WORK AND REUSE OF LIGHTING FIXTURE.
2. EXISTING RECEPTACLES AND DATA/TEL TO BE REMOVED. EXISTING BRANCH WIRING TO BE INTERCEPTED AND EXTENDED TO NEW DEVICE LOCATIONS. REFER TO E102 FOR NEW DEVICE LOCATION.
3. EXISTING LIGHT FIXTURE IN CEILING TO BE REMOVED.
4. ALL BRANCH CIRCUITS MUST BE TESTED TO IDENTIFY ANY EXISTING LOADS LOCATED OUTSIDE OF WORK, SHALL NOT BE AFFECTED BY THIS WORK. ALL REQUIRED SHUTDOWNS MUST BE COORDINATED WITH OWNER PRIOR TO SHUTDOWN. REFER TO POWER PLANS AND SCHEDULES FOR MORE INFORMATION.
5. EXISTING DEVICES TO BE RELOCATED TO NEW VESTIBULE DOOR. INTERCEPT AND EXTEND WIRING TO NEW LOCATION AS REQUIRED. COORDINATE DOOR LOCATION WITH ARCHITECTURAL DRAWINGS.
6. RELOCATE EXISTING ELECTRIC DOOR OPENER REFER TO E102
7. EXISTING UNIT ECUH-2 TO BE RELOCATED TO ACCOMMODATE NEW ROOM ARRANGEMENT. INTERCEPT AND EXTEND WIRING TO NEW LOCATION AS REQUIRED. REFER TO E102 FOR NEW LOCATION.

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

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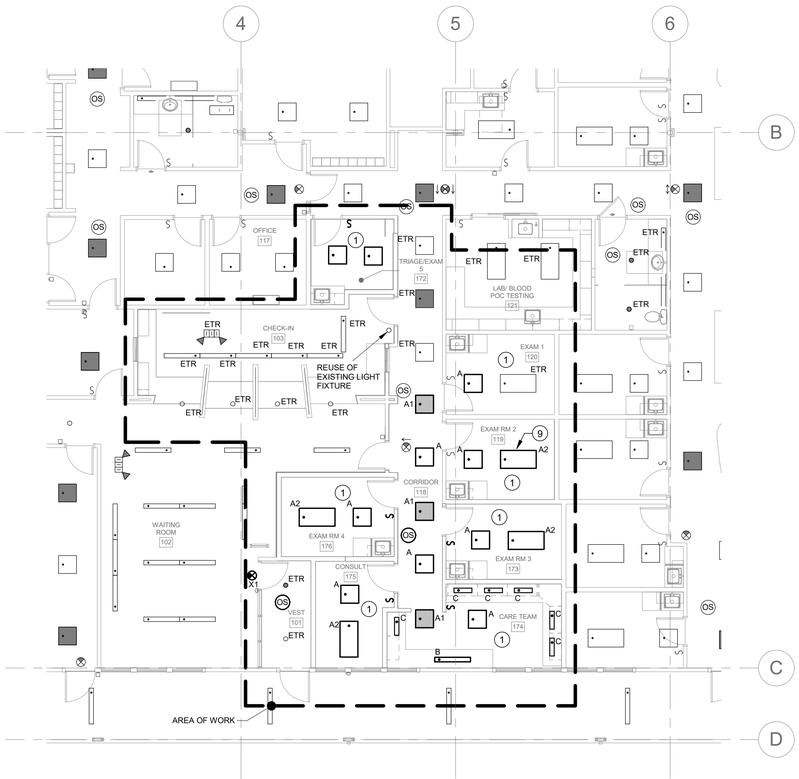
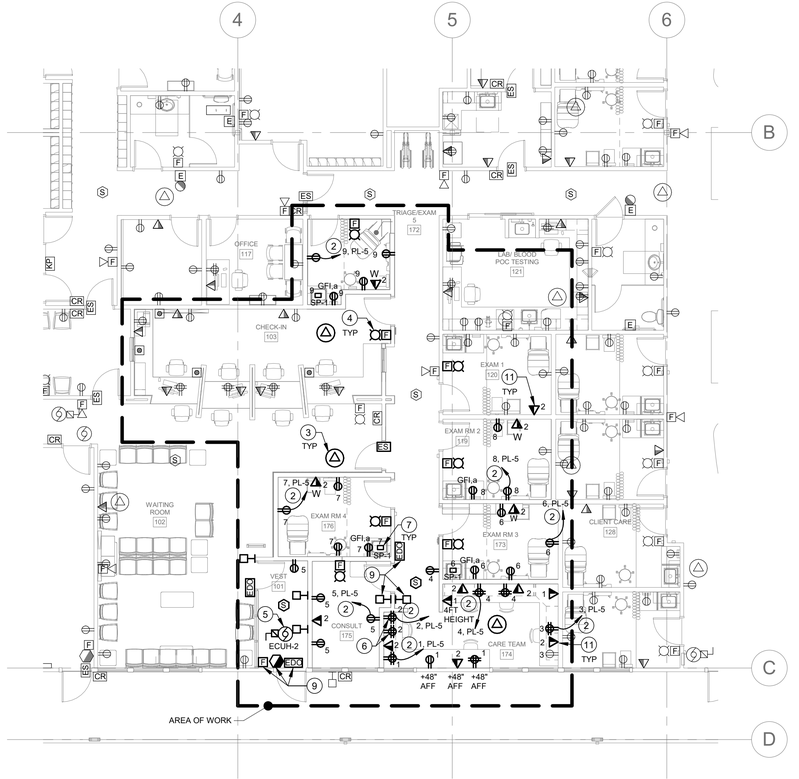
ELECTRICAL DEMOLITION PARTIAL FIRST FLOOR PLANS

ED101



1 ELECTRICAL LIGHTING NEW WORK PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL POWER NEW WORK PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	VOLTS	MOUNTING	DESCRIPTION	REMARKS
A	LITHONIA	2VTL2-20L-ADP-120-EZ1-LP840-DGA22FS/VT	2000 LUMEN 4K LED	120	RECESSED	2' x 2' LED TROFFER, LINEAR ACRYLIC DIFFUSER	DRYWALL CEILING ADAPTER TRIM KIT
A1	LITHONIA	2VTL4-60L-ADP-120-EZ1-LP840-EL14L	2000 LUMEN 4K LED	120	RECESSED	2' x 2' LED TROFFER, LINEAR ACRYLIC DIFFUSER	SIMILAR TO TYPE "A", WITH EMERGENCY BATTERY PACK
A2	LITHONIA	2VTL4-60L-ADP-120-EZ1-LP840-DGA24FS/VT	6000 LUMEN 4K LED	120	RECESSED	2' x 4' LED TROFFER, LINEAR ACRYLIC DIFFUSER	SIMILAR TO TYPE "A", WITH DRYWALL CEILING ADAPTER TRIM KIT
B	T-BAR LED	TBSL-MN-4-XX-D-U-W	445 LM/FT 4000K LED	120	RECESSED T-GRID	48" LONG, NARROW EXTRUDED ALUMINUM HOUSING, DIFFUSING LENS	FURNISH WITH 0-10V (DIM TO 10%) DRIVER. CONFIRM CEILING GRID TYPE
C	DAY-BRITE	LINCS100EL19935120CO SWHDIM	391 LUMENS (3500°K)	120	SURFACE	NOMINAL 24"O.A., LONG, 1" DEEP PROFILE, ALUMINUM HOUSING,TEXTURED ACRYLIC LENS, WHITE ANTI-MICROBIAL FINISH	UNDERCABINET LIGHT
X1	ISOLITE	EUN-EM-R-1C	LED	120	SURFACE	SINGLE FACE EXIT SIGN WITH BATTERY BACK-UP	MOUNTING, FACES AND CHEVRONS AS INDICATED ON PLANS

GENERAL NOTE:

CIRCUIT REFERENCES ARE INDICATIVE OF QUANTITY OF CIRCUITS REQUIRED AND ARE NOT REFERING TO SPECIFIC LOCATION WITHIN A PANELBOARD. CONTRACTOR HOLDS THE RESPONSIBILITY TO RETAIN CIRCUITS SERVING EXISTING EQUIPMENT OR DEVICES IN THE RENOVATION AREA THAT ARE TO REMAIN AND ALSO MAINTAIN CIRCUIT INTEGRITY OF EXISTING CIRCUIT SERVING LOADS OUTSIDE OF THE RENOVATION AREA.

ELECTRICAL POWER NEW WORK KEY NOTES:

1. LIGHTING FIXTURE ASSEMBLIES TO CONNECT TO EXISTING LIGHTING CIRCUIT SERVING AREA.
2. REUSE EXISTING CIRCUITS RETAINED FROM DEMOLITION. EXISTING BRANCH WIRING TO BE INTERCEPTED AND EXTENDED TO NEW DEVICE LOCATIONS.
3. PROVIDE A NEW BUILDING STANDARD DATA/VOICE OUTLET AS SHOWN.
4. PROVIDE NEW BUILDING STANDARD FIRE ALARM SYSTEM DEVICE. CONNECT NEW DEVICE TO LOCAL FIRE ALARM SYSTEM NOTIFICATION.
5. NEW LOCATION OF EXISTING ECUH-2 UNIT. INTERCEPT AND EXTEND WIRING TO NEW LOCATION AS REQUIRED.
6. (2) QUAD RECEPTACLES LOCATED IN CABINET FOR BATTERY CHARGING UNITS. REFER TO ARCHITECHURAL DRAWINGS FOR EXACT CABINET LOCATION.
7. UTILITY SINK PUMP "SP-1". REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
8. ALL BRANCH CIRCUITS MUST BE TESTED TO IDENTIFY ANY EXISTING LOADS LOCATED OUTSIDE OF WORK, SHALL NOT BE AFFECTED BY THIS WORK. ALL REQUIRED SHUTDOWNS MUST BE COORDINATED WITH OWNER PRIOR TO SHUTDOWN. REFER TO POWER PLANS AND SCHEDULES FOR MORE INFORMATION.
9. NEW LOCATION OF EXISTING DEVICES. INTERCEPT AND EXTEND WIRING TO NEW LOCATION AS REQUIRED.
10. EXISTING LIGHT FIXTURE TO BE RELOCATED TO ACCOMMODATE NEW ROOM ARRANGEMENT. INTERCEPT AND EXTEND WIRING AS REQUIRED.
11. PROVIDE CAT 6 CABLE FROM OUTLET TO NEW PATCH PANEL IN IDF ROOM. CONTRACTOR TO TERMINATE & TEST CABLE ON BOTH ENDS. NUMBER OF CABLES ARE INDICATED ON PLAN. CONTRACTOR TO PROVIDE NEW 48 PORT PATCH PANEL IN IDF ROOM.

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10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
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PROJECT NO.: 2023088.00

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: **2387**

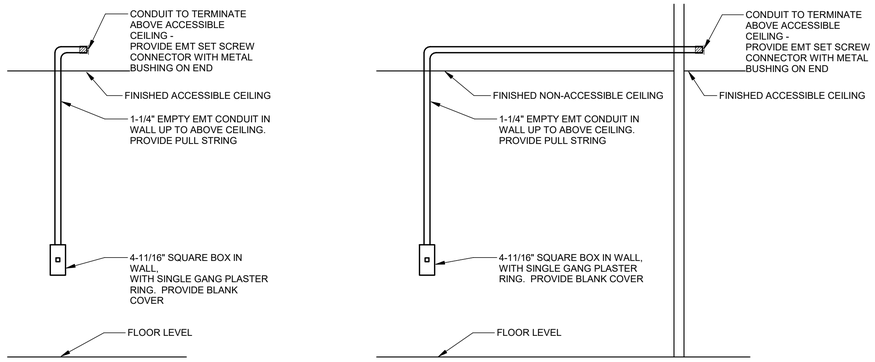
Revisions

Issue Dates:

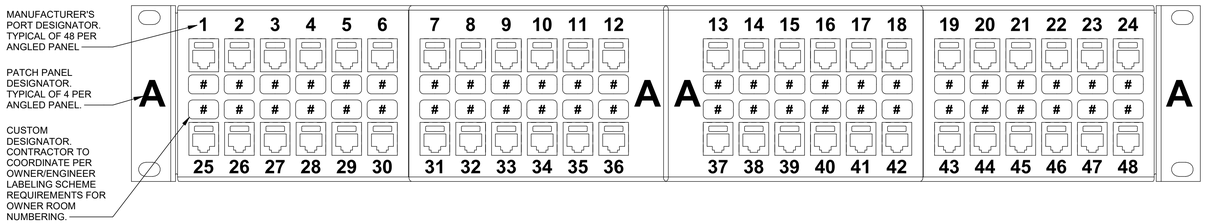
CONSTRUCTION DOCUMENTS
01/26/2024

ELECTRICAL NEW WORK PARTIAL FIRST FLOOR PLANS

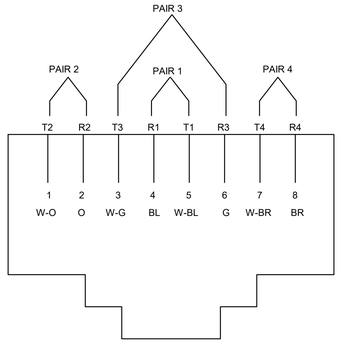
E102



1 TYPICAL RACEWAY INSTALLATION DETAIL - DATA/VOICE OR VIDEO OUTLET
SCALE: NONE



4 COMMUNICATION PATCH PANEL - DATA LABELING
SCALE: NOT TO SCALE



(VIEW FROM FRONT OF JACK)

5 T568 WIRING SCHEME DETAIL
SCALE: NOT TO SCALE

NOTES:

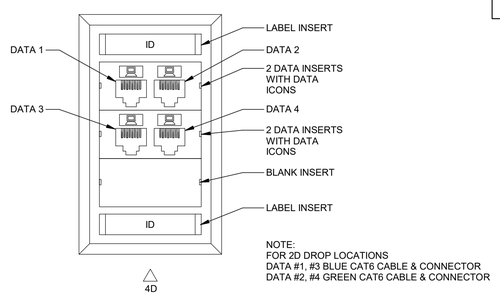
1. THIS ILLUSTRATION DEPICTS THE FRONT VIEW OF THE UTLET/CONNECTOR/PATCH PANEL.
2. PIN/PAIR ASSIGNMENT FOR ALL DEVICES SHALL CONFIGURE TO ANSI/TIA/EIA 568-B.

PAIR 1 WHITE - BLUE/BLUE
T1 R1

PAIR 2 WHITE - ORANGE/ORANGE
T2 R2

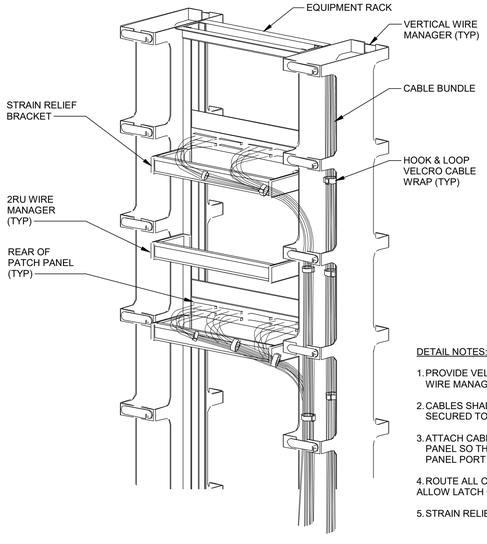
PAIR 3 WHITE - GREEN/GREEN
T3 R3

PAIR 4 WHITE - BROWN/BROWN
T4 R4



NOTE:
FOR 2D DROP LOCATIONS
DATA #1, #3 BLUE CAT6 CABLE & CONNECTOR
DATA #2, #4 GREEN CAT6 CABLE & CONNECTOR

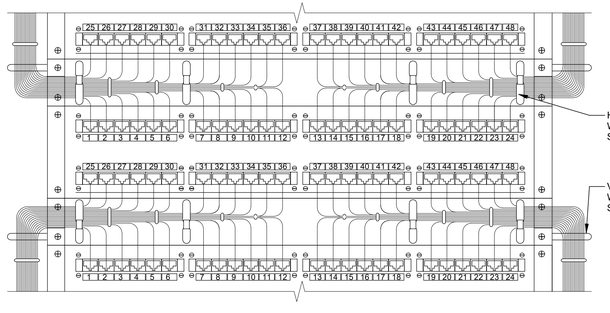
7 TYPICAL 4 DATA RECESSED OULET
SCALE: NOT TO SCALE



DETAIL NOTES:

1. PROVIDE VELCRO CABLE WRAPS MINIMUM 12" CENTERS IN VERTICAL WIRE MANAGERS.
2. CABLES SHALL BE BUNDLED INTO LOGICAL GROUPS, CABLES SHALL BE SECURED TO STRAIN RELIEF BRACKET.
3. ATTACH CABLE LABEL BETWEEN STRAIN RELIEF BRACKET AND PATCH PANEL SO THAT LABEL CAN BE READ AND CORRELATED TO PATCH PANEL PORT WITHOUT UNBUNDLING ADJACENT CABLES.
4. ROUTE ALL CABLE BUNDLES TO AVOID SHARP BENDS AND PINCH POINTS. ALLOW LATCH OPERATION ON VERTICAL WIRE MANAGERS.
5. STRAIN RELIEF BRACKET SHALL BE A MINIMUM 6" BEHIND PATCH PANEL.

6 CABLE STRAIN RELIEF DETAIL
SCALE: NOT TO SCALE



NOTES:

1. PROVIDE HORIZONTAL WIRE MANAGEMENT (SIZED AS SHOWN ON RACK LEVATION DETAILS) ABOVE AND BELOW EACH PATCH PANEL. SECURE CABLING WITH HOOK AND LOOP TYPE VELCRO STRAPS.
2. PROVIDE VERTICAL WIRE MANAGEMENT AS SHOWN IN THE RACK LEVATION ETAILS. SECURE CABLE WITH HOOK AND LOOP TYPE VELCRO STRAPS.
3. CABLING SHALL BE NEATLY ORGANIZED AND SUPPORTED. SPLIT ROUTING OF CABLES TO PRESENT A NEAT EVEN APPEARANCE FOR IMPROVED SERVICE ABILITY AND CABLE SUPPORT SIMILAR TO ABOVE. WEIGHT OF CABLES SHALL BE SUPPORTED BY WIRE MANAGEMENT DEVICES AND NOT BY THE CABLE CONNECTION.
4. THIS ARRANGEMENT IS TYPICAL FOR THE FRONT AND REAR OF THE RACK.
5. PROVIDE STRAIN RELIEF AT ALL CABLE CONNECTIONS.

8 EQUIPMENT RACK WIRING MANAGEMENT DETAIL
SCALE: NOT TO SCALE

QA+M architecture
QuinnBerryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
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ELECTRICAL DIAGRAM DETAILS AND SCHEDULE

E301

ELECTRICAL SPECIFICATION

PART 1 - GENERAL

1.1 GENERAL

A. Architect's General Conditions are a part of this Division. All work shall be done in strict accordance with all applicable Codes and Regulations of local and State Agencies and utility companies. This Contractor shall bear the cost of all fees, permits, licenses and taxes and any utility company charges in connection with the work. All equipment installed shall be UL listed.
B. AIA Document A201-current version, "General Conditions of the Contract for Construction" is hereby made part of these Specifications.

1.2 SCOPE

A. Demolition:
1. The Contractor shall reference architectural and electrical plans and remove or relocate existing electrical materials as shown or which exist on walls and partitions being removed. Additionally, the Contractor shall remove all electrical feeds to existing furniture partitions to be removed. Removal of wiring that is no longer in service shall be complete back to source. Existing conduit may be reused when in suitable condition. Wiring for branch circuits shall not be reused unless otherwise noted. Circuits that remain shall be left in operating condition.
2. The Contractor shall remove all unused telephone and data cables complete from outlet to patch panel.
3. Existing electrical materials shall NOT be reused unless so indicated on the Drawings. Existing flush-mounted boxes in good condition may be reused if located as shown for new boxes on Drawings. Flush-mounted boxes not being reused shall be covered with suitable cover plates, surface boxes and raceways shall be removed.
4. All materials removed under this Division and not scheduled for reuse or requested by the Owner, shall be disposed of off site.

B. New Work:
1. Provide complete electrical lighting, power, fire alarm and special systems as indicated on the Contract Drawings.
2. Provide all electrical work necessary to power Owner-supplied equipment. Provide all receptacles, power wiring, , etc., necessary for a complete installation.
3. Refer to architectural specifications for security system requirements.
4. Systems shall be complete in all respects, tested, approved and ready for operation.
5. Maintain existing receptacles on existing walls to remain, reconnect circuits that are interrupted.

C. Work by Others:
1. Other Trade Contractors and Owner's equipment vendors shall install all motors for equipment provided under their trade work contracts; motors shall be ready for wiring by the Electrical Contractor.
2. Other Trade Contractors and Owner's equipment vendors shall furnish and deliver to the Electrical Contractor wiring diagrams for all electrically operated equipment. Other Trade Contractors shall furnish relays and control equipment to the Electrical Contractor who shall install and wire these devices. The Electrical Contractor shall provide motor starters and disconnect switches.
3. The General Contractor shall provide excavation, backfill, chases, openings, cutting, patching, painting and finish work.
4. The General Contractor shall install all access doors where required; doors needed for access to electrical systems shall be furnished by the Electrical Contractor.

1.3 ALTERNATES

A. Definition: An alternate is an amount proposed by Bidders and stated on the Bid Form that will be added to or deducted from Base Bid amount if the Owner decides to accept a corresponding change in either scope of work or in products, materials, equipment, systems or installation methods described in Contract Documents.
B. Coordination: Coordinate related work and modify or adjust adjacent work as required to ensure that work affected by each accepted alternate is complete and fully integrated into the project.
C. Examine Contract Documents to determine requirements for materials and methods necessary to achieve the work described under each alternate. Include as part of each alternate: miscellaneous devices, appurtenances and similar items incidental to or required for a complete installation whether or not mentioned under Alternate.
D. Schedule of Alternates:
1. Alternate 1: Provide new low voltage switchboard to replace existing.
A. Quote the amount of money to be ADDED to the Base Bid for providing a new low voltage switchboard to replace the existing. This work includes disconnecting completely the existing low voltage distribution sections and its feeder cables, removing the existing low voltage sections, providing a new low voltage switchboard with integral main service protector and reconnecting the existing feeder cables to the new switchboard.

1.4 SHOP DRAWING SUBMITTALS

A. Submit shop drawings on equipment and materials, in sextuplet (6 copies), to the Architect for approval. The Drawings shall include ratings, performance information, operating data and wiring diagrams. The Contractor shall assume full responsibility for work performed or equipment supplied that is not in agreement with approved shop drawings.
B. The following list of electrical items must be submitted by this Contractor for approval:
1. Panelboards
2. Circuit breakers
3. Wiring devices and plates
4. Lighting fixtures (submit samples as requested.
5. Fire alarm system components
6. "Poke-thru" floor devices
7. Underfloor distribution system activation components
C. Submit for record an itemized list detailing electrical systems and components to be seismically restrained and associated seismic restraint system to be used.

1.5 RECORD DRAWINGS

A. Neatly and accurately record all changes to Contract Documents on record set of drawings furnished by the General Contractor. These record "as-built" drawings shall include locations of specific items as listed in the various Specification DIVISIONS. Upon project completion, these record drawings shall be turned over to the Engineer.

1.6 DEFINITION

A. As used on Contract Drawings, the term "to provide" shall mean "to furnish, install and connect completely in the specified or approved manner the item or material described."

1.7 GUARANTEE

A. Materials, equipment and workmanship shall have standard warranty against defects in material and workmanship. Failures due to defective or improper material, equipment, workmanship or design shall be made good, forthwith, by and at the expense of the Contractor, including damage done to areas, materials and other systems resulting from such failures. Guarantee period shall extend for one year from the Date of Acceptance.

1.8 INSPECTION

A. Contract Drawings are diagrammatic and do NOT show every required fitting, etc. The Contractor shall familiarize himself with existing site conditions prior to submitting a bid, and shall include all equipment and accessories necessary for complete and operational systems.

1.9 INSURANCE

A. Furnish insurance certificates required by the Owner.

1.10 PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS

A. Obtain and pay for permits, inspections, licenses and certificates required. Work of this Contract shall meet current accepted editions of the State Building Code, State Fire Safety Code and other laws, rules and regulations of local, State and Federal authorities including, but not limited to: National Fire Protection Association #13; National Fire Protection Association #90A; National Fire Protection Association #90B; National Fire Protection Association #99; International Plumbing Code; International Mechanical Code; National Fire Protection Association #70 (National Electrical Code); and local utility company requirements. Pay utility company backcharges. Equipment, materials and components listed in UL Product Directories, shall bear UL labels.

1.11 ARRANGEMENT OF WORK

A. Work shall be coordinated between trades to prevent interference. Work shall present a neat coordinated appearance. Install work as necessary to provide maximum possible headroom, adequate clearance and ready access for inspection, operation, safe maintenance and repair and Code conformance. Where space appears inadequate, consult the Architect before proceeding with installation.

1.12 WORKMANSHIP

A. Equipment and materials shall be new, of first quality, selected and arranged to fit properly into spaces indicated. Install equipment and materials in accordance with manufacturer's recommendations.

1.13 COORDINATION WITH OWNER

A. Work shall be scheduled with the Owner. Interruptions in Owner's access to the site shall be subject to Owner limitations of date and duration.

1.14 OPERATION OF SERVICES AND UTILITIES

A. Shutdown of existing services and utilities shall, without exception, be coordinated with the proper utility and with the Owner as to date, time of day, and duration before any service is interrupted. Notify the Owner of estimated duration of shutdown period at least ten days in advance of proposed shutdown.

1.15 PROTECTION

A. Close open ends of work with temporary covers or plugs during construction to prevent entry of foreign material. Protect existing property, equipment and finishes from damage. Repair, to original condition, existing property that has been damaged during execution of the work.

1.16 CLEANING

A. Work site must be kept clean. Rubbish, debris and leftover or excess materials shall be removed daily.

1.17 LUBRICATION

A. No equipment shall be operated for temporary service or testing without proper lubrication. Items requiring lubrication shall be left freshly and fully lubricated at time of substantial completion. Furnish Owner with one complete new set of any special lubrication devices required for servicing, e.g., grease guns, fittings and adapters.

1.18 PAINTING

A. Equipment and materials shall have standard manufacturer's finish except where otherwise noted.

1.19 CUTTING AND PATCHING

A. Cutting and patching to be performed by (General Contractor) (this Contractor). Painting of finished surfaces after patching shall be as specified by Architect or shall match adjacent finishes.

1.20 WATERPROOFING

A. Provide necessary sleeves, caulking and flashing required to make openings waterproof.

1.21 FIREPROOFING

A. At closing of each working day, opening cut between floors and through fire-rated partitions shall be provided with UL approved, Class A "Noncombustible", firestopping with ratings equal to that of adjacent construction.

1.22 BASES AND SUPPORTS

A. Provide necessary supports, pads, bases and piers for equipment. Equipment shall be securely attached to building structure in acceptable manner. Attachments shall be of strong and durable nature, as determined by the Owner.

1.23 ACCESS

A. Provide adequately sized access doors, for access to concealed equipment and components requiring servicing or inspection. Doors shall have fire ratings equal to construction in which they are located.

1.24 TESTS

A. Perform tests required by the Owner, legal authorities and agencies. Each piece of equipment, including motors and controls, shall be operated continuously for minimum one-hour test. Correct all defects appearing during tests, and repeat tests until no defects are disclosed. Final tests shall be made in the Owner's presence.

1.25 SYSTEMS OPERATION AND MAINTENANCE

A. Upon completion of the work and at a time designated by the Engineer, the Contractor shall furnish instruction manuals including data, warranties, etc., and shall instruct the Owner or his representative as to the arrangement, location and operation of all equipment and systems furnished and installed under the Electrical Contract.

PART 2 - PRODUCTS

2.1 WIRE CABLE AND RACEWAYS

A. Rigid galvanized steel conduit (RGS) shall be used for all exterior wiring and where subject to dampness, except as noted below or as specifically noted on the Drawings. Connectors and couplings shall be galvanized steel threaded type listed for RMC use.
B. Electrical Metallic Tubing (EMT) shall be used for feeders run above ground in dry areas. Connectors and couplings shall be galvanized steel, either compression type or heavy-duty set screw-type, listed for EMT use. Indent or crimp-type connectors are NOT allowed.
C. EMT or RGS shall be used for all circuit homeruns.
D. Schedule 40 polyvinyl chloride (PVC) conduit may be used for underground power and telephone wiring except as specifically otherwise noted on the Drawings. All elbows shall be rigid steel conduit.
E. Minimum sizes shall be as follows:
1. Conduit and EMT: 3/4" unless otherwise noted.
2. Flexible Metal Conduit: ½"
3. Wireway: 4" x 4".
4. Cable Ladder: 12".
F. Type MC metal-clad cable may be used for branch wiring to light fixtures, receptacles and switches. Wherever MC cable is used for light fixture wiring, leave sufficient slack for future removal or servicing of insulation and green insulated ground wire. Connectors and fittings shall be galvanized steel, listed for MC cable use. All cables shall be rigidly supported from the building structure at least 4' O.C. and and within 12" from every fitting and shall run in lines parallel or perpendicular to building structural members. Cable shall not rest on the ceiling structure. Type MC cable shall not be used for homeruns. Cable sheath of interlocked aluminum is not acceptable. Type AC armored cable shall not be permitted on the job.

G. Flexible Metallic Conduit (FMC) or liquid-tight flexible metallic conduit (LFMC) shall be used for connections to vibrating equipment and furniture partitions. Connectors, fittings and clamps for FMC shall be galvanized steel, listed for FMC use. Connectors and couplings for LFMC shall be zinc plated malleable iron or steel, with engagement window locknut and sealing ring: liquid, oil, and rain-tight; suitable for wet locations, listed for LFMC use: acceptable equivalent to O-Z/Gedney "Type 4Q".
1. Blue Type LA liquid-tight flexible metal conduit (LFMC) shall be used for all wiring beneath raised floor.
2. Grey/tan Type LA liquid-tight flexible metal conduit (LFMC) shall be used for final connections to vibrating equipment and to furniture partitions from underfloor duct activation fittings.
H. Wiring that must be run along the surface of the existing walls shall be run in Wiremold #500 surface metal raceway, Wiremold #2100 surface metal raceway or as otherwise specified on the Drawings.
I. Conductors shall be new copper with 600 Volt code gauge insulation conforming to NEC requirements. I Wire #10 and smaller shall be solid conductor with THWN/THHN insulation, Size #8 and larger shall be stranded conductors with THWN/THHN insulation. Size #3 and larger shall be stranded conductors with XHHW insulation. Minimum size wire for light and power circuits shall be #12 AWG. The Contractor shall include an individual code sized green insulated ground conductor for all circuits; the use of the conduit system or cable covering as the sole means of grounding will not be permitted.
J. Common neutrals shall not be used for receptacle circuits, unless otherwise noted on plans. When used, common neutral conductor ampere rating shall be double the phase conductor rating.

K. CATEGORY 6 TWISTED PAIR CABLE

See the Evaluations for a discussion of cable types. Specify shielding or screening in "Shielding/Screening" Paragraph below.

1. Description: Four-pair, balanced-twisted pair cable, certified to meet transmission characteristics of C Category 6 cable at frequencies up to 250MHz.
2. Standard: Comply with NEMA WC 66/ICEA S-116-732 and TIA-568-C.2 for Category 6 cables.
3. Conductors: 100-ohm, 23 AWG solid copper.
4. Shielding/Screening: Shielded twisted pairs (FTP)
5. Cable Rating: Riser.
6. Jacket: Blue thermoplastic.

L. All conduits and wiring shall be run concealed inside walls where possible. Exposed conduits where allowed shall be run neatly in lines parallel or perpendicular to building walls.
M. All splices for #10 or smaller shall be made with "Scotchlok" spring connectors or equal. Splices for #8 or larger shall be made with UL approved compression connectors.
N. Provide nylon pull lines for all empty conduits.

2.2 Patch Panels

A. Category 6 Patch Panel:
1. The Category 6 patch panel shall be compatible with 19" equipment racks, cabinets or wall mount brackets.
2. The Category 6 patch panel shall be equipped with 8-position modular ports and shall allow for termination using both T568A and T568B wiring schemes.
3. The Category 6 patch panel shall be equipped with front labeling space to facilitate port identification.
4. The connector module shall meet or exceed the Category 6 performance criteria per ANSI/TIA-568-C.2.

1.3 GROUNDING AND BONDING

A. Equipment Grounds
1. Grounding shall be installed and tested in accordance with NFPA 70 (NEC) and to satisfaction of local electrical inspector and Architect.
2. Provide green THHN insulated copper equipment grounding conductor between the ground bus of the source distribution panel or switchboard and each load being served. Conductor shall be sized according to NEC Table 250.122. Provide separate grounding conductor for each branch circuit, unless otherwise indicated on Contract Drawings.
3. Maintain electrical continuity of raceways.

B. Ground Fault Protection

1. If excessive ground current flows, main breakers and/or circuit breakers with ground fault sensing shall trip to protect against arcing ground faults.
2. Provide ground fault circuit interrupter protection for receptacles located within six feet of sink or faucet and as required and indicated.

C. Materials

1. Above-grade and exposed connections shall be Burndy or acceptable equivalent.
2. Wire shall be stranded bare copper or insulated copper, as indicated on Contract Drawings.
3. Bus shall be copper bar, as indicated on Contract Drawings.
4. Bushings and Pressure Lugs shall be by T&B, O.Z./Gedney or acceptable equivalent.
5. Pipe clamps shall be by O.Z./Gedney or acceptable equivalent.

D. Telecommunications System Grounds

1. Raceway including wireways, conduits, cable trays, etc. installed for low voltage or fiberoptic cabling shall be made electrically continuous for grounding purposes. Provide hollow braided copper jumpers equal to Belden No. 8669 (60A Ampacity). Provide equal impedance conductor for aluminum raceway. Provide connections from each item to the ground bus or if bonded in series provide two separate connections to the ground bus so as to form a loop.
2. Bond raceways to the ground bus located in the telecommunications closets/rooms. Bond raceways in each room they terminate in.
3. Grounding or bonding conductors installed for Telecommunications Systems shall be labeled near their termination points. Labels shall be non-metallic and include the following:
a. "WARNING if this connector or cable is loose or must be removed, please call the Building Telecommunications Manager.
b. Labels and installation shall meet the requirements of ANSI/TIA/EIA 606 and 607.

2.4 SAFETY SWITCHES

A. Safety switches shall be fused, 600 VAC, heavy-duty type in NEMA enclosures suitable for the environment in which they shall be installed. Switches shall be Square D, General Electric or Cutler-Hammer equivalent to the following Square D types:
1. Fused disconnect 2- and 3-pole: "Type H".
2. Fused, raintight (WP) disconnect switches in NEMA 3R enclosures: "Type H-R".

2.5 FUSES

A. Fuses for circuit protection shall be UL listed, non-renewable, low peak, dual-element, time delay fuses. Bussman Type FRN-RK (250 Volt) or FRS-RK (460 Volt) UL Class RK5 or approved equal.

2.6 MOTOR STARTERS

A. Provide starters for all motors unless noted otherwise. Starters shall be Allen-Bradley or equal by Square
D. General Electric or Cutler-Hammer, as follows:
1. Manual for 120 Volt or 208 volt, 1-phase: Allen Bradley Bulletin 600.
2. Magnetic across-the-line: Allen Bradley Bulletin 509.
3. Combination starter disconnects: Allen Bradley Bulletin 512.
B. Manual starters shall have NEMA 1 enclosure.
C. Magnetic starters shall have the following features:
1. NEMA 1 enclosure
2. Two N.O. and two N.C. auxiliary contacts
3. HOA switch
4. Neon run pilot light
5. Three overload heaters
6. Control power transformer.

2.7 OUTLET AND JUNCTION BOXES

A. Switch and receptacle outlet boxes in partitions where wiring is concealed shall be standard 4 inches square, 1-1/2 inches deep, hot-dipped, galvanized steel, with device ring for boxes installed in sheetrock walls. Use 1-1/2 inch deep square corner tile wall extension for boxes installed in tile, exposed brick or exposed block masonry walls.
B. Boxes shall be securely fastened to the building structure. Suitable means shall be provided to support outlet boxes to take the weight of fixtures. Recessed outlet boxes or their extension covers shall be set flush with face of finished wall, but in no case set greater than 1/4 inch behind finished face of wall. The Contractor shall check with the Architectural Drawings for possible box interference.
C. Junction boxes shall be sized in accordance with Code requirements.
D. Junction and outlet boxes where exposed to the weather and wet locations shall be threaded hub type and provided with watertight screw-on covers and gaskets.

2.8 SWITCHES, RECEPTACLES AND PLATES

A. Switches and receptacles shall be as manufactured by Hubbell, Arrow-Hart, Leviton or Pass and Seymour and equivalent to the following specification grades, with color matching Building Standard:
1. Single-pole switches shall be Hubbell #1221.
2. 3-way switches shall be Hubbell #1223.
3. Momentary contact switches shall be single-pole, double-throw equivalent to Hubbell #1557.
4. Duplex grounding type receptacles shall be 20 Ampere Hubbell #5362.
5. Isolated ground type receptacles shall be 20 Ampere Hubbell #IG5362.
6. Ground fault type receptacles shall be Hubbell #GF-5362 feed-through receptacles.
B. Occupancy sensor switches shall be Sensor Switch #WSD-PDT motion and sound dual technology line voltage wallbox type rated to control up to 600 Watts at 277 VAC. Units shall have adjustable light level and off-time.
C. Provide wall plates equal to building standard on all switches and receptacles. When no standard exists provide specification grade stainless steel (Type 302).
D. Where there are multiple devices in one location, devices shall be ganged under one cover plate. All wall switches shall be flush mounted, where applicable.
E. Receptacles shall be mounted 18 inches above finished floor with U ground up unless otherwise indicated.
F. Wall switches shall be mounted 48 inches above finished floor, on strike side of door, unless otherwise indicated.

2.9 LIGHTING FIXTURES

A. The Contractor shall furnish and install all lighting equipment as shown on the Drawings and specified on Drawings complete with lamps ready for operation.

B. Existing fixtures in the space shall be reused where noted on the Drawings. The fixtures shall be disconnected, removed and stored by the Electrical Contractor and then be cleaned and replaced prior to reinstallation. The Electrical Contractor shall document, in writing, any damage noted on the fixtures prior to removing them and submit a copy to the General Contractor and the Engineer. The Electrical Contractor shall be held responsible for damage caused by work under this project.
C. Fixtures not noted as being reused will be turned over to the Building Owner, or disposed of per the Owner's direction during construction.
D. Installation of Lighting Fixtures:
1. Fixtures shall be securely attached to the building structure by mechanical means and by safety wire. Provide box-mounted studs and additional structural supports as required. Provide two safety wires per fixture. Each safety wire shall be capable of supporting four times the weight of the fixture. Safety wire shall be adjusted to be in slack tension.
2. Install seismically rated clips to secure recessed grid-supported luminaires in place. Provide four clips per fixture.

2.10 FIRE ALARM

A. Fire alarm components shall be compatible with existing building system. Provide additional cards as required to control additional initiation devices. Provide additional amplifiers, etc. required to power additional devices required to comply with A.D.A. All devices and mounting heights shall conform to current A.D.A. Standards. Strobe units shall be Xenon strobe type.
1. Pull stations shall be keyed to reset, red Lexan, addressable.
2. Combination fire speaker/strobe units shall be multi-tap speaker, initially set appropriate tap to provide proper sound levels and synchronized visual unit with appropriate module adapter mounted on common mounting plate.
3. Smoke detectors shall be addressable, photoelectric or ionization type with twist lock base.
4. Duct smoke detectors shall be addressable, photoelectric type, with twist lock base, housing, sampling tubes and relay output with remote LED indicator/test switch and appropriate sampling tubes.
5. Addressable interface modules shall be provided for monitoring of non-addressable devices and for control purposes.
6. Provide and install one monitor module per smoke damper – Fire system shall monitor status of limit switch mounted on smoke damper.
7. Contractor shall install cable in a class A configuration. This shall be in accordance with manufactures instructions and shall include a special evacuation appliance cable scheme. All evacuation appliances shall be cabled in an alternating fashion back to separate amplifier / power supply cabinets so that failure of one circuit will not effect occupant notification. There shall be at least two separate amplifier / power supply circuits for this floor.
B. Initiating circuit wiring shall be Type FPLP cable, single pair, twisted shielded, solid THHN with ground (drain) wire, run in EMT conduit, with maximum 6' length of FMC where required.
C. Notification circuit wiring shall be Type FPLP cable, single pair, twisted shielded, solid THHN with ground (drain) wire, and 2 #12, 1 #12G THHN, run in EMT conduit, with maximum 6' length of FMC where required

D. Notification circuit wiring from the point it leaves the fire alarm system node and/or transponder to the point the circuit enters the notification zone it serves shall be Type MI cable, single pair, twisted shielded, solid and separate (2) #12 solid. Cables shall be bundled together with stainless steel straps 2'-0" O.C.
E. Wiring for networking cabling between fire alarm system nodes and/or transponders shall be Type MI cable, eight (8) runs of single pair, twisted shielded, solid. Cables shall be bundled together with stainless steel straps 2'-0" O.C.

2.11 CIRCUIT BREAKERS

A. All new circuit breakers shall match existing in style, manufacturer and interrupting rating for panel in which they are being installed, unless noted otherwise.

PART 3 - EXECUTION

3.1 GENERAL

A. The Electrical Contractor shall ensure that no piping, ductwork, leak protection apparatus or other equipment foreign to the electrical trade passes through the space equal to the width and depth of the electrical distribution equipment and extending from the floor to the structural ceiling.

3.2 LOAD BALANCE

A. The Electrical Contractor shall balance the loads on the three phases in the electrical panelboard in which he does work insofar as physically possible, and report each panel loading to the Engineer.

3.3 CIRCUIT BREAKER TESTING/SETTING

A. Feeder circuit breakers shall be tested by an independent testing firm with 10 years experience, prior to installation.
B. Tests shall be performed at specified trip setting to ensure proper operation.
C. Results of test shall be furnished to Owner for record.
D. Verify final trip settings for adjustable or interchangeable circuit breaker elements. Instantaneous settings shall be minimum unless noted otherwise.

3.4 GENERAL WIRING TESTS

A. At the time of final inspection and test, all wiring and connections throughout the renovation areas must be completed, devices and equipment properly operating, lighting fixtures installed, and power and lighting circuit and control wiring clearly identified with approved tags ready for acceptance. Each system shall test free from short circuit and grounds.
B. Insulation resistance for low voltage cables and wiring shall be performed at 1000 Volt D.C. for one (1) minute. When insulation resistance must be determined, switchboards, panelboards, fuse holders, switches and overcurrent devices shall be in place, and the insulation resistance when tested at 1000 Volts D.C. shall be no less than 100,000 ohms for #14 and #12 wire and 250,000 ohms for #10 wire and larger.

3.5 LOW VOLTAGE WIRING TESTS

1. Visually inspect jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA-568-C.1.
2. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.

Retain first subparagraph below if verification of quality is to be performed before completing horizontal cabling.

3. Test twisted pair cabling for DC loop resistance, shorts, opens, intermittent faults, and polarity between conductors. Test operation of shorting bars in connection blocks. Test cables after termination but not cross-connection.

A. Test instruments shall meet or exceed applicable requirements in TIA-568-C.2. Perform tests with a tester that complies with performance requirements in "Test Instruments (Normative)" Annex, complying with measurement accuracy specified in "Measurement Accuracy (Informative)" Annex. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.
B. Data for each measurement shall be documented. Data for submittals shall be printed in a summary report that is formatted similarly to Table 10.1 in BICSI's "Telecommunications Distribution Methods Manual," or shall be transferred from the instrument to the computer, saved as text files, printed, and submitted.
C. Remove and replace cabling where test results indicate that they do not comply with specified requirements.

See Section 014000 "Quality Requirements" for retesting and reinspecting requirements and Section 017300 "Execution" for requirements for correcting the Work.

D. End-to-end cabling will be considered defective if it does not pass tests and inspections.
E. Prepare test and inspection reports.

3.6 GROUNDING SYSTEM TESTS

A. Test and inspect the main grounding electrode system in accordance with Section 7.13 of the NETA Handbook for Electrical Testing Procedures. Perform a resistance to ground test and insure that resistance is no greater than 5 (five) ohms. Investigate and supplement grounding system where resistance exceeds recommended values and re-test as required.
B. Ground Fault Circuit Interruption shall be tested after installation by random connection of plug-in tester to various protected receptacles, as directed by Architect.

3.7 OPERATIONAL TESTS

A. Each piece of electrical equipment, including lighting fixtures, motors and controls shall be operated continuously for minimum test period of one hour.
B. Demonstrate by operating equipment that circuits and devices are in good operating condition. Each item of control equipment shall be operated minimum of five times. Demonstration shall be performed after wiring tests.

3.8 MECHANICAL SYSTEM ADJUSTMENT AND TESTING

A. Be present during adjustment period and final testing of mechanical systems. Take readings necessary to ensure that electrical systems are operating properly. Tests for mechanical work are detailed under DIVISION 15, MECHANICAL WORK.
B. Take ampere readings with true RMS reading ammeter at each electrical component, such as motor and heating coil, to determine proper operation.
C. Record readings and submit them in triplicate to the Engineer for review.

3.9 FIRE ALARM SYSTEM INSTALLATION AND TESTING

A. Fire alarm wiring shall be run in EMT; devices shall be securely affixed to building surfaces.
B. Junction boxes, pull boxes, outlet boxes and covers in the fire alarm raceway system shall be painted red.
C. Test every device and operation, including test by simulation of trouble, in presence of the Owner and the Architect. Notify the Owner, the Architect and interested parties of testing 72 hours in advance.
D. The system as described shall be installed, tested and delivered to the Owner in fully operational and first-class condition. The system shall include all required hardware, raceways interconnecting wiring and software to accomplish the requirements of this Contract. The fire alarm equipment supplier will have had ten (10) years previous experience with facility operations and requirements.

3.10 LABELING

A. Label all new disconnects, starters, motors, furniture feeder boxes, in a manner acceptable to the Architect. Provide updated panel schedules in all panelboards within the scope of work.
B. All manufacturer's nameplates shall be kept clean and free of paint.

A. Data/communications wiring done under this Contract shall be recorded on cable management drawings. Each outlet shall be assigned a number which shall be keyed to its punchdown location. Provide printed, colored, adhesive labels for all electrical equipment, such as but not limited to switchboards, panelboards, motor control centers, disconnect switches, meter socket enclosures, etc. to warn qualified personnel of potential electric arc flash hazards. Label shall be a minimum of 4" x 5" and read as follows:

WARNING

ARC FLASH HAZARD
APPROPRIATE PPE REQUIRED
FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY
REFER TO NFPA 70E

END OF ELECTRICAL SPECIFICATIONS

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

VANZELM ENGINEERS
VAN ZELM HEYWOOD & SHADFORD, INC.
CT: 860.284.5064 MA: 617.218.9976
10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800
Connecticut | Massachusetts | North Carolina
PROJECT NO.: 2023088.00

Fair Haven Community Health Care

Shoreline Family Health Care Renovations

Branford, CT
Project #: 2387

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Issue Dates:

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ELECTRICAL SPECIFICATION

E601