BLOOMFIELD PUBLIC LIBRARY

MCMAHON WINTONBURY LIBRARY
1015 BLUE HILLS AVENUE, BLOOMFIELD, CT 06002

FEBRUARY 6, 2023
CD SET

ARCHITECT

TSKP STUDIO

TSKP STUDIO, LLC
146 WYLLYS STREET, BUILDING 1, SUITE 203
HARTFORD, CT 06106

CIVIL

SLR INTERNATIONAL CORP.
99 REALTY DRIVE
CHESHIRE, CT 06410

STRUCTURAL

MICHAEL HORTON ASSOCIATES, INC.
151 MEADOW STREET
BRANFORD, CT 06405

MEP/FP

RZ DESIGN ASSOCIATES, INC.
750 OLD MAIN STREET
ROCKY HILL, CT 06067

LANDSCAPE

RICHTER & CEGAN, INC.
AVON PARK NORTH P.O. BOX 567
8B CANAL COURT
AVON, CT 06405

ENVIRONMENTAL

SLR INTERNATIONAL CORP.
2 COMMERCE DRIVE, SUITE 110
BEDFORD, NH 03110

TECHNOLOGY/ SECURITY

D'AGOSTINO & ASSOCIATES
477 MAIN STREET, SUITE 210B
MONROE, CT 06468

DRAWING LIST

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C3.0	SEDIMENT AND EROSION CONTROL PLAN
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ARCHITECTURAL

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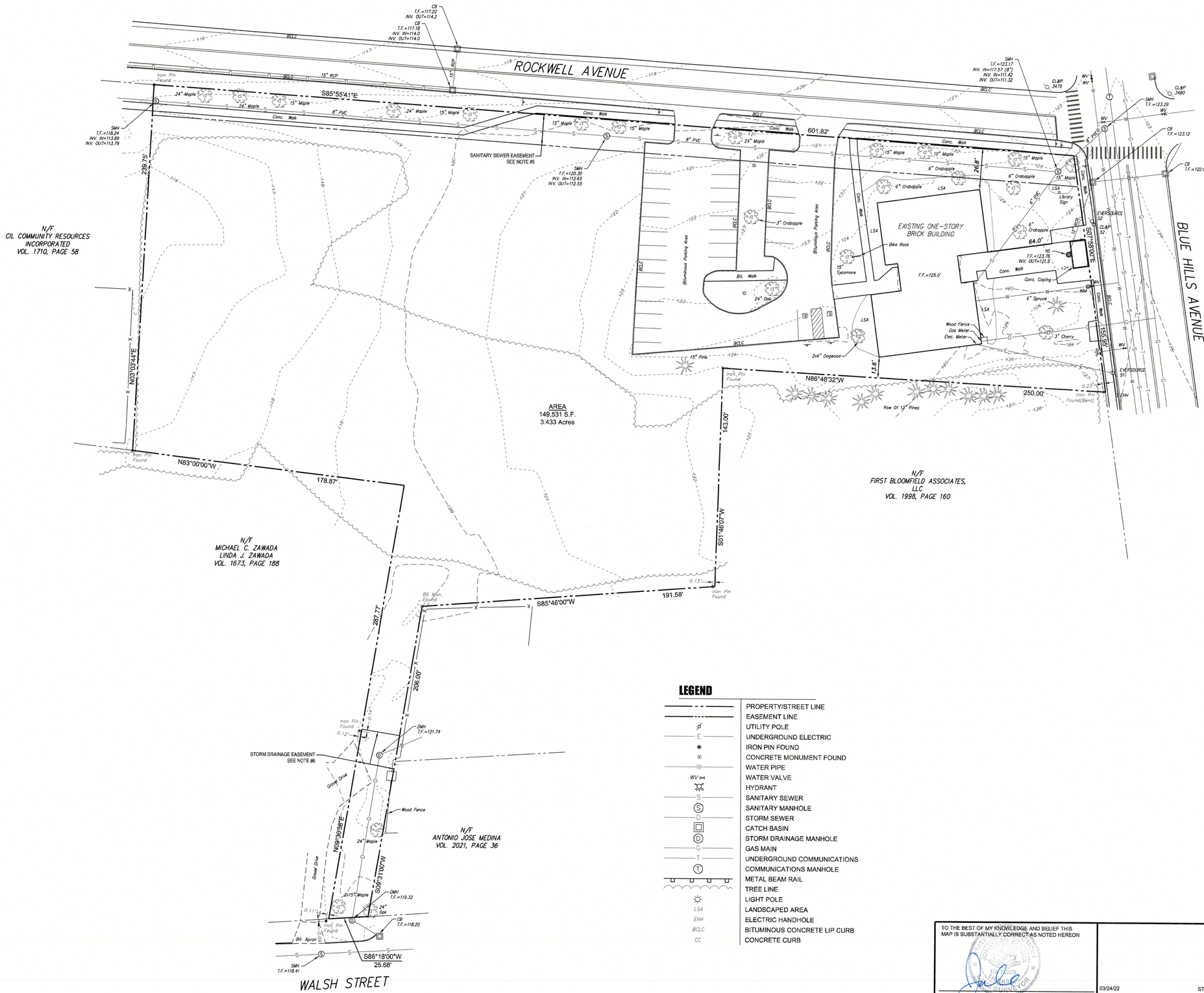
LOCATION PLAN

APPROVALS

PUBLIC WORKS DATE

AGENCY DATE



SURVEY NOTES:

1. THIS SURVEY AND MAP WERE PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS A PROPERTY AND TOPOGRAPHIC MAP CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2. IT IS INTENDED TO DEPICT THE DEED LINES, LINES OF OCCUPATION, EASEMENTS AND ENCROACHMENTS AFFECTING THE PROPERTY. THE PROPERTY/BOUNDARY DETERMINATION OPINION PRESENTED HEREON IS BASED ON A RESURVEY.
2. REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS ENTITLED:
   A. "MAP OF LAND MRS. KATE MCCROSSEN, BLOOMFIELD, CONN." PREPARED BY ERWIN M. PECK, SCALE 1"=50' AND DATED DEC. 1924. BLOOMFIELD LAND RECORDS MAP #50.
   B. "RIGHT OF WAY MAP TOWN OF BLOOMFIELD BLUE HILLS AVE. FROM HARTFORD CITY LINE NORTHERLY TO PARK AVE. ROUTE NO. 311" PREPARED BY CONNECTICUT HIGHWAY DEPARTMENT, SCALE 1"=40', DATED MARCH 31, 1928 AND REVISED JULY 1983.
   C. "EASEMENT MAP SHOWING EASEMENT TO BE ACQUIRED FROM TOWN OF BLOOMFIELD #997-#1011 BLUE HILLS AVENUE BLOOMFIELD, CONNECTICUT" PREPARED BY BARAKOS-LANDINO DESIGN GROUP, SCALE 1"=30' AND DATED FEBRUARY 12, 1998. B.L.R. MAP #3636.
   D. "THE SUBDIVISION OF WINTONBURY LIBRARY & ROBERT WATKINS CENTER PREPARED FOR TOWN OF BLOOMFIELD 1015 BLUE HILLS AVENUE & 73 ROCKWELL AVENUE BLOOMFIELD, CONNECTICUT" PREPARED BY ED LALLY, SCALE 1"=40', DATED DECEMBER 5, 2012 AND REVISED ON 12-19-12, B.L.R. MAP #71-54.
3. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
4. BEARINGS ARE BASED ON NAD83. ELEVATIONS ARE BASED ON NAVD88.
5. THIS PARCEL IS SUBJECT TO A SANITARY SEWER EASEMENT IN FAVOR OF THE METROPOLITAN DISTRICT COMMISSION AS RECORDED IN VOLUME 72, PAGE 289 OF THE BLOOMFIELD LAND RECORDS.
6. THIS PARCEL IS SUBJECT TO A DRAINAGE EASEMENT IN FAVOR OF READCO BLOOMFIELD, LLC AS RECORDED IN VOLUME 842, PAGE 246 OF THE BLOOMFIELD LAND RECORDS.
7. THIS PARCEL IS ZONED GWB. SETBACKS ARE GENERALLY FRONT 25', SIDE 10' AND REAR 20'.

LEGEND

	PROPERTY/STREET LINE
	EASEMENT LINE
	UTILITY POLE
E	UNDERGROUND ELECTRIC
	IRON PIN FOUND
	CONCRETE MONUMENT FOUND
W	WATER PIPE
WV	WATER VALVE
	HYDRANT
S	SANITARY SEWER
S	SANITARY MANHOLE
D	STORM SEWER
	CATCH BASIN
D	STORM DRAINAGE MANHOLE
G	GAS MAIN
T	UNDERGROUND COMMUNICATIONS
T	COMMUNICATIONS MANHOLE
	METAL BEAM RAIL
	TREE LINE
	LIGHT POLE
LSA	LANDSCAPED AREA
EHH	ELECTRIC HANDHOLE
BCLC	BITUMINOUS CONCRETE LIP CURB
CC	CONCRETE CURB

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

JONATHAN TARBOX L.S. #70075

03/24/22 STORM INV'S
REVISIONS:

PROPERTY AND TOPOGRAPHIC SURVEY

LAND NOW OR FORMERLY OF

TOWN OF BLOOMFIELD

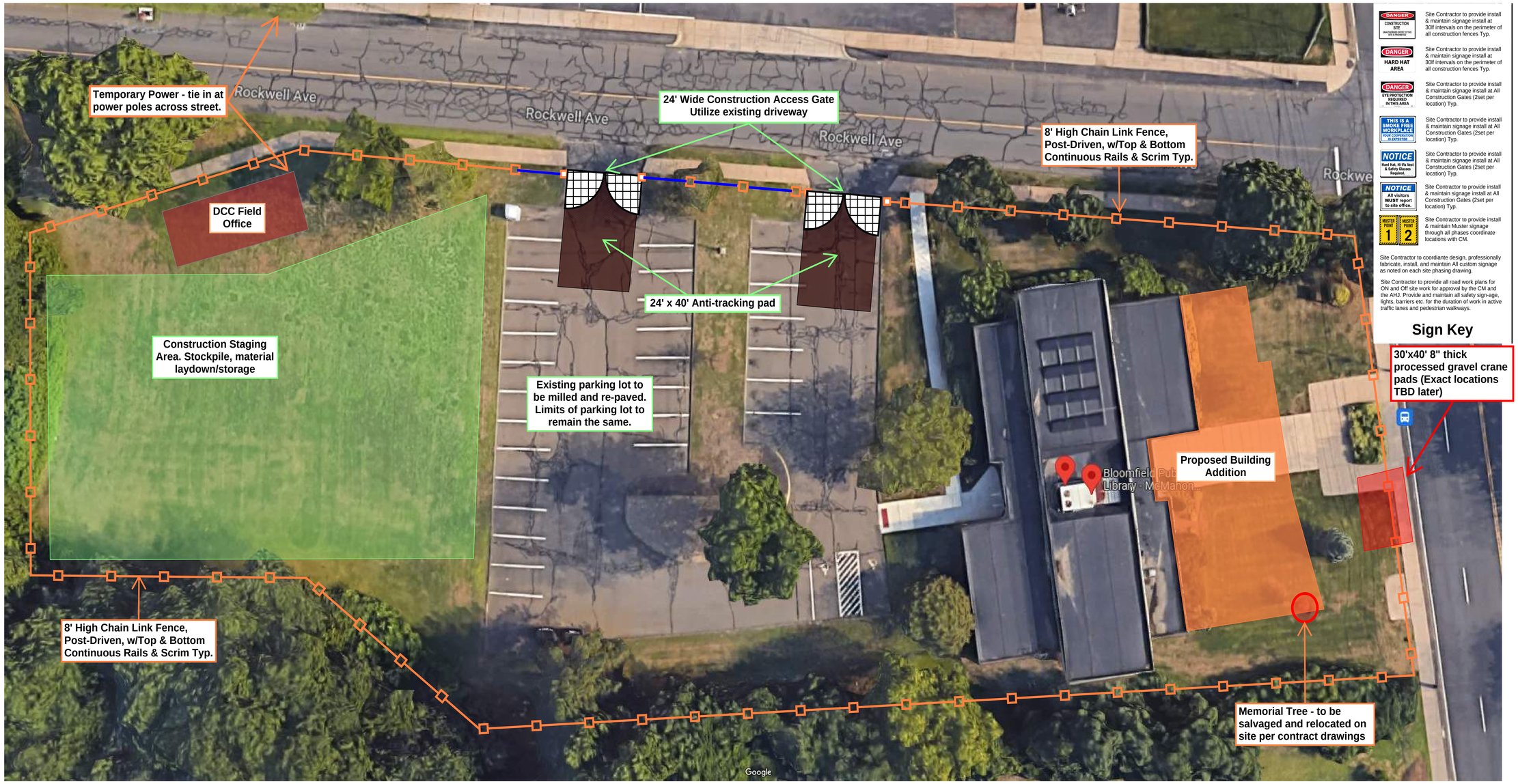
VOLUME 25, PAGE 455

#1015 BLUE HILLS AVENUE

BLOOMFIELD, CONNECTICUT

Delta
SURVEYING SERVICES, LLC
(860) 944-4678
75 ELLINGTON AVE., ELLINGTON, CT.

JOB No.:	21-071
SCALE:	1"=30'
DATE:	FEBRUARY 25, 2022
DWG. NO.:	1
SHEET:	1 OF 1



DANGER CONSTRUCTION SITE — Site Contractor to provide install & maintain signage install at 30lf intervals on the perimeter of all construction fences Typ.

DANGER HARD HAT AREA — Site Contractor to provide install & maintain signage install at 30lf intervals on the perimeter of all construction fences Typ.

DANGER EYE PROTECTION REQUIRED IN THIS AREA — Site Contractor to provide install & maintain signage install at All Construction Gates (2set per location) Typ.

THIS IS A SMOKE FREE WORKPLACE — Site Contractor to provide install & maintain signage install at All Construction Gates (2set per location) Typ.

NOTICE Hard Hat, Hi-Vis Vest & Safety Glasses Required. — Site Contractor to provide install & maintain signage install at All Construction Gates (2set per location) Typ.

NOTICE All visitors MUST report to site office. — Site Contractor to provide install & maintain signage install at All Construction Gates (2set per location) Typ.

MUSTER POINT 1 / MUSTER POINT 2 — Site Contractor to provide install & maintain Muster signage through all phases coordinate locations with CM.

Site Contractor to coordiante design, professionally fabricate, install, and maintain All custom signage as noted on each site phasing drawing.

Site Contractor to provide all road work plans for ON and Off site work for approval by the CM and the AHJ. Provide and maintain all safety sign-age, lights, barriers etc. for the duration of work in active traffic lanes and pedestrian walkways.

Sign Key

SITE LOGISTICS PLAN GENERAL NOTES:

1. Contractors to apply and pay for all permits, fees etc. as may be required by authorities having jurisdiction to accomplish the site logistics installation and maintenance. Follow all Town of Bloomfield requirements.
2. The Sitework Contractor will be responsible to furnish, install and maintain the temporary construction fence for the duration of the project and remove the fence and privacy mesh from the site at project conclusion.
3. All deliveries must be scheduled 48 hours in advance with the Downes Field Superintendent.
4. Do not inhibit vehicular or pedestrian traffic at anytime on surrounding streets or sidewalks.
5. All contractors to provide police officers, traffic control devices, flagmen, signage, barricades, temp. fencing, traffic cones, caution tape, temporary road plates, permits, fees, etc. as may be required by the same authorities having jurisdiction and/or Downes for work and deliveries affecting surrounding streets.
6. Refer to civil drawings for erosion control requirements and details.
7. Temporary toilets for construction workers will be provided by Downes within construction fence.
8. Refer to TSKP Studio drawings for full extent of construction and details. This Drawing is not be utilized for construction purposes other than the logistics concept. Review all final layouts and quantities of logistical items with the Downes Superintendent prior to installation.
9. This site logistics plan should not be considered all inclusive and does not relieve all trade contractors from complying with the Contract Documents. Refer to Division 01 General Requirements for other related work.
10. Sitework Contractor to provide all street-sweeping as directed by Downes and restore all areas disturbed by construction activities.
11. Tree protection will be in strict accordance with the plans and specifications.
12. Custom Scrim Locations

tskp.com
TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIOS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	
DATE:	02/06/2023
DRAWN BY:	
CHECKED BY:	

ISSUE DATES

NO.	DATE	PURPOSE

SL-1

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED UPON A MAP ENTITLED: "PROPERTY & TOPOGRAPHIC SURVEY, LAND NOW OR FORMERLY OF TOWN OF BLOOMFIELD, VOLUME 25, PAGE 455, #1015 BLUE HILLS AVENUE, BLOOMFIELD, CONNECTICUT", DATED: FEBRUARY 25, 2022, SCALE: 1"=30' AND PREPARED BY DELTA SURVEYING SERVICES, LLC
2. THIS PLAN IS A SCHEMATIC REPRESENTATION OF POTENTIAL BUILDING RELATED UTILITIES, THEIR CONFIGURATIONS, AND THEIR CONNECTIONS AND SHOULD BE CONSIDERED APPROXIMATE IN NATURE.
3. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. SLR INTERNATIONAL CORPORATION ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
7. ALL STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) UNLESS OTHERWISE INDICATED.
8. ALL GRAVITY SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC SDR-35) UNLESS OTHERWISE INDICATED.
9. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF BLOOMFIELD REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 AND ADDENDUMS.
10. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
11. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS USED DURING CONSTRUCTION SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
12. SYMBOL DELINEATED TEST PITS TO BE PERFORMED BY THE CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF FINDINGS.

EROSION CONTROL NOTES CONTRACTOR RESPONSIBILITIES

1. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. A LOG OF SUCH INSPECTIONS SHALL BE MAINTAINED AT THE SITE.
2. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE TOWN'S DESIGNATED REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS
3. INSPECTION OF THE SITE FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
4. ALL DEWATERING WASTE WATERS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISCOLORATION OF THE RECEIVING WATERS.
5. THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS.
6. A COPY OF ALL PLANS AND REVISIONS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.
7. ALL CATCH BASIN SUMPS SHOULD BE INSPECTED AFTER CONSTRUCTION COMPLETION AND SEDIMENT REMOVED. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED LOCATION.

LEGEND

EXISTING		PROPOSED
	STREET LINE	
	PROPERTY LINE	
	SETBACK LINE	
70	MAJOR CONTOUR	100
68	MINOR CONTOUR	98
× 70.5	SPOT GRADE	+ 70.5
	TREE LINE	
	TREE/ SHRUB	
	STONEWALL	
	SITE LIGHT	
	HYDRANT	
WV	WATER VALVE	WV
GV	GAS VALVE	GV
	CATCH BASIN	
	MANHOLE/YARD DRAIN	
	SANITARY SEWER W/MANHOLE	SAN
	STORM DRAIN	
W	WATER MAIN	W
G	GAS MAIN	G
E	ELECTRIC LINE	E
ETC	ELECTRIC, TELEPHONE, CABLE	ETC
	UTILITY POLE	
	TRAFFIC SIGN	
	IRON PIPE	
	MONUMENT	
	EDGE OF PAVEMENT W/CURB	
	GUARD RAIL	
	CHAIN LINK FENCE	
	WATERCOURSE	
	WETLAND	

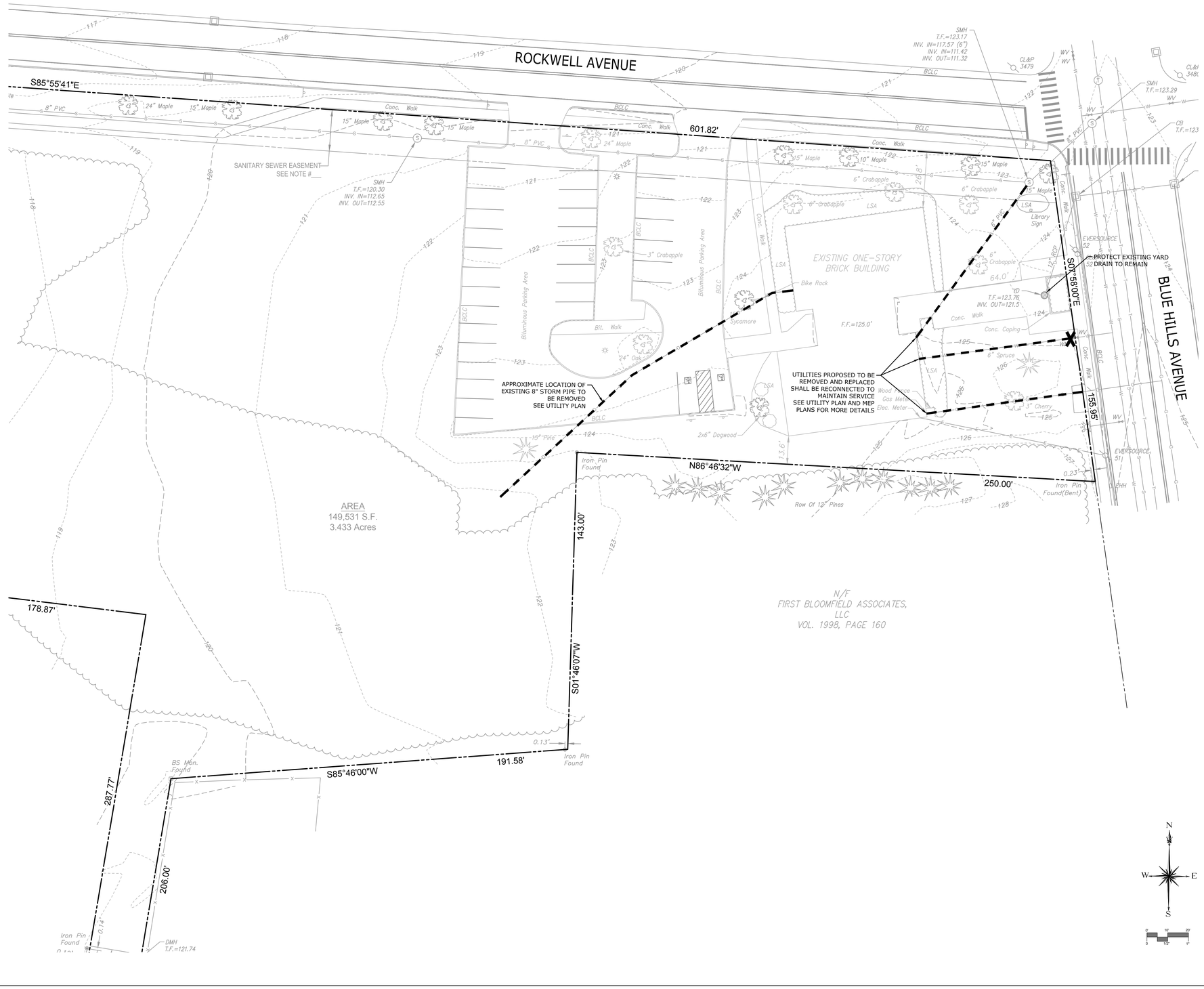
REMOVALS LEGEND

X — STRUCTURE TO BE REMOVED

— — — UTILITY TO BE DISCONNECTED AND REMOVED

REMOVAL NOTES

1. THE INTENT OF THIS DRAWING IS TO IDENTIFY SPECIFIC UTILITY DEMOLITIONS. HOWEVER, THE GRAPHIC LEGEND AND PLAN MAY NOT BE A COMPREHENSIVE LIST OF ALL SITE REMOVALS.
2. CONTRACTOR RESPONSIBLE FOR HAULING ALL REMOVED MATERIAL OFFSITE AND DISPOSING OF MATERIAL PROPERLY AND LEGALLY.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS FOR UTILITY DISCONNECT/REMOVAL AS WELL AS SCHEDULING ANY ASSOCIATED INSPECTIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION, ADJUSTMENT AND/OR RELOCATION OF ALL UTILITIES ABOVE AND BELOW GRADE AS NEEDED.
5. BACKFILL AND COMPACT ALL AREAS OF REMOVED SUB-SURFACE UTILITIES WITH STRUCTURAL FILL.
6. ALL UTILITIES NOT SHOWN TO BE REMOVED SHALL HAVE SERVICE MAINTAINED AND SHALL BE PROTECTED DURING CONSTRUCTION.
7. SEE PLANS PROVIDED BY RICHTER AND CEGAN, INC. FOR SITE REMOVALS.
8. SEE PLANS PROVIDED BY MEP FOR ALL ELECTRICAL AND TELECOMMUNICATIONS REMOVALS.



tskp.com

TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

STATE OF CONNECTICUT — RICHARD T. DUFF — 019360 — LICENSED PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIONS

1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
UTILITY DEMOLITION PLAN

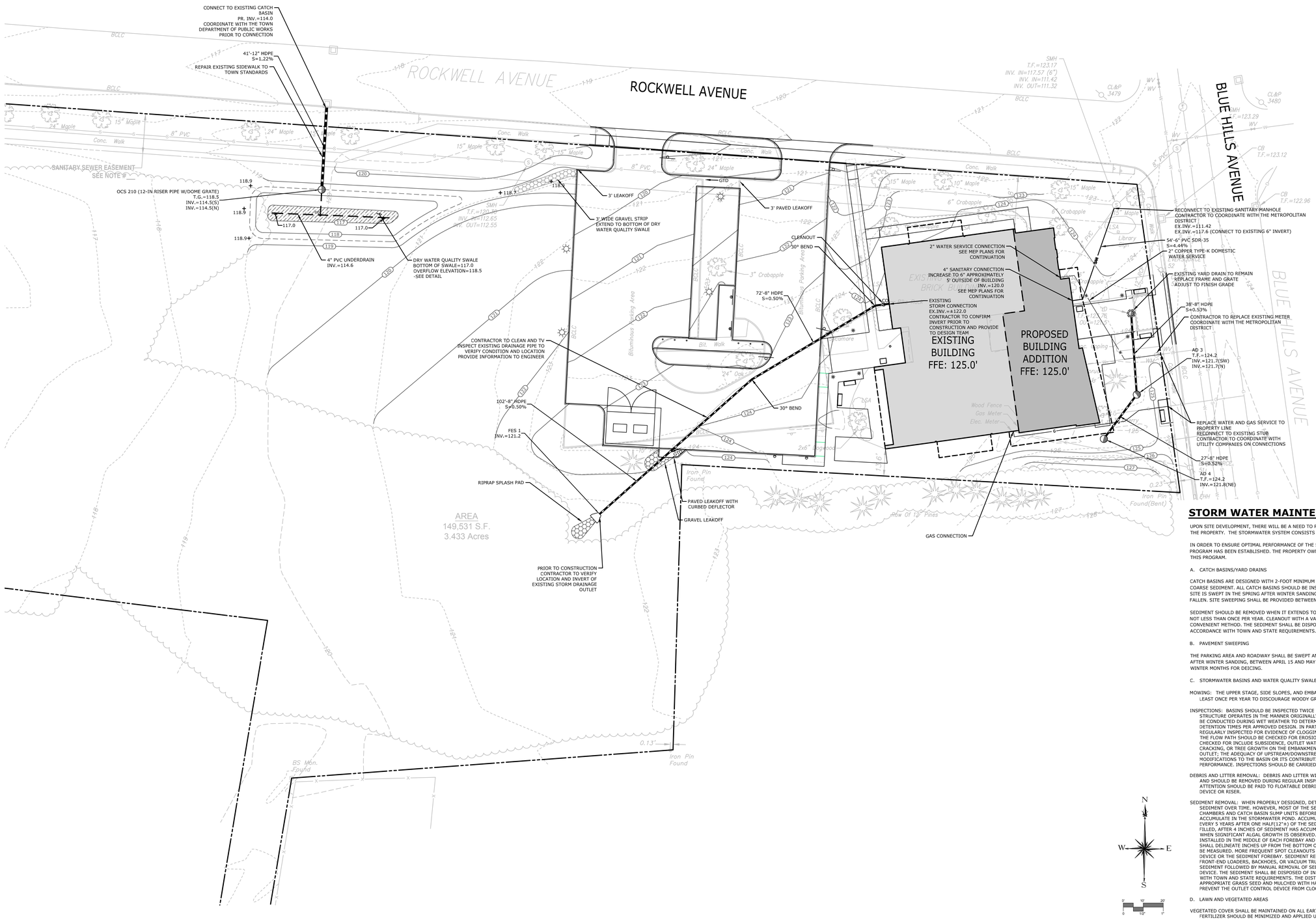
STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C1.0

Plotted by: MCDONOUGH, CEGAN, INC. Plotting Date/Time: 2/6/2023 10:48:00 AM Drawing Name: C:\Users\...\Desktop\...\C1.0 Demo.dwg



STORM WATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY. THE STORMWATER SYSTEM CONSISTS OF PIPING AND CATCH BASINS.

IN ORDER TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM, THE FOLLOWING STORMWATER MAINTENANCE PROGRAM HAS BEEN ESTABLISHED. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM.

A. CATCH BASINS/YARD DRAINS

CATCH BASINS ARE DESIGNED WITH 2-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEPT IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.

SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.

B. PAVEMENT SWEEPING

THE PARKING AREA AND ROADWAY SHALL BE SWEPT ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15. SALT ALTERNATIVES SHALL BE USED DURING WINTER MONTHS FOR DEICING.

C. STORMWATER BASINS AND WATER QUALITY SWALES

MOWING: THE UPPER STAGE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER PONDS MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS.

INSPECTIONS: BASINS SHOULD BE INSPECTED TWICE PER YEAR(SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/BED/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY INFLUENCE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.

DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICE AND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.

SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS AFTER ONE HALF(12"±) OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED, AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF EACH FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY. SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEEDED WITH APPROPRIATE GRASS SEED AND MULCHED WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.

D. LAWN AND VEGETATED AREAS

VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE IF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT APPLICATION PROCESSES.

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TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
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BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
SITE PLAN - UTILITIES

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C2.0

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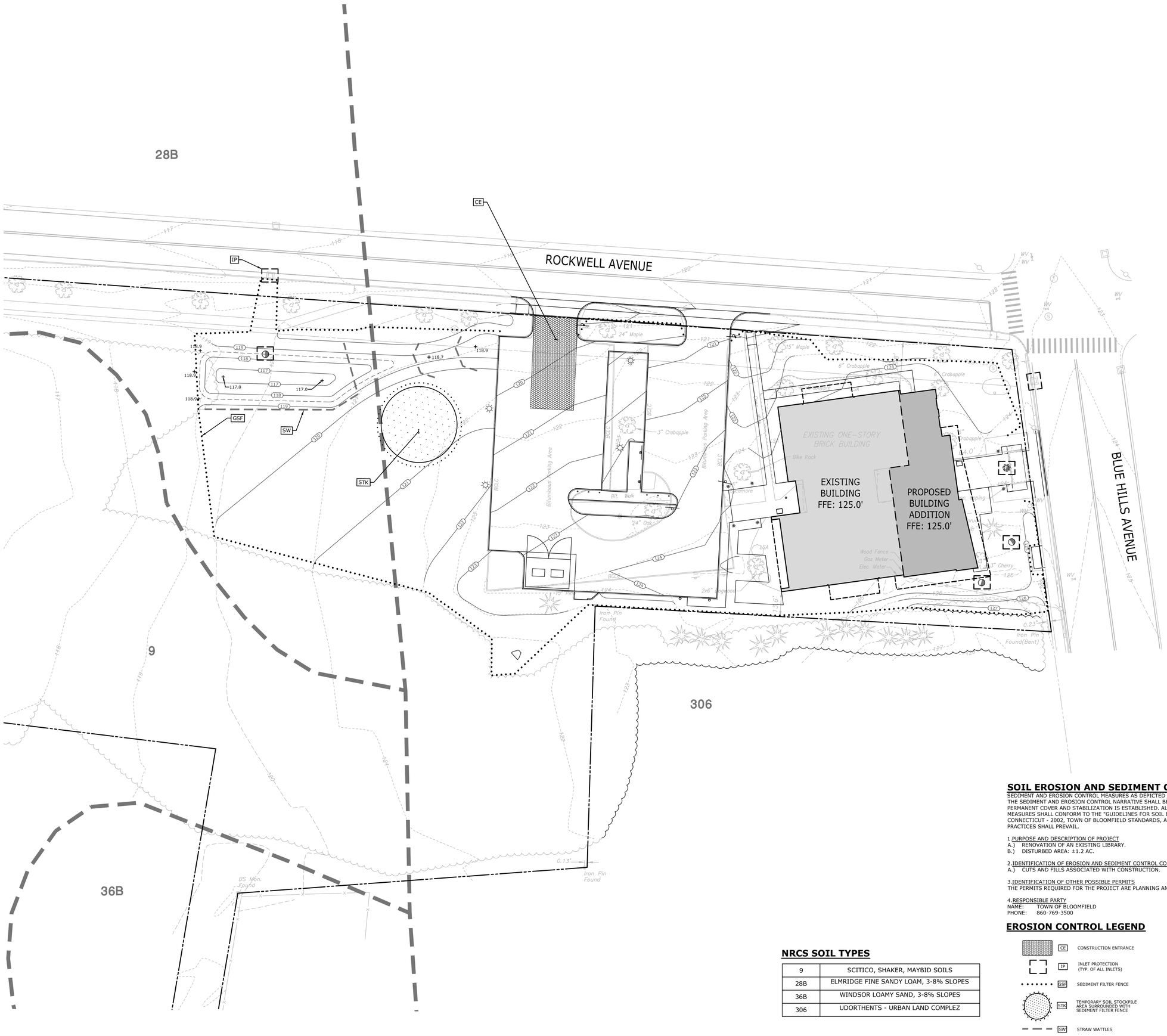

NRCS SOIL TYPES

9	SCITICO, SHAKER, MAYBID SOILS
28B	ELMRIDGE FINE SANDY LOAM, 3-8% SLOPES
36B	WINDSOR LOAMY SAND, 3-8% SLOPES
306	UDORTHENTS - URBAN LAND COMPLEZ

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, TOWN OF BLOOMFIELD STANDARDS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1.PURPOSE AND DESCRIPTION OF PROJECT
A.) RENOVATION OF AN EXISTING LIBRARY.
B.) DISTURBED AREA: ±1.2 AC.

2.IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.

3.IDENTIFICATION OF OTHER POSSIBLE PERMITS
THE PERMITS REQUIRED FOR THE PROJECT ARE PLANNING AND ZONING PERMITS

4.RESPONSIBLE PARTY
NAME: TOWN OF BLOOMFIELD
PHONE: 860-769-3500

EROSION CONTROL LEGEND

- CE — CONSTRUCTION ENTRANCE
- IP — INLET PROTECTION (TYP. OF ALL INLETS)
- GSF — SEDIMENT FILTER FENCE
- STK — TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE
- SW — STRAW WATTLES

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TSKP STUDIO
One Hartford Square West
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Hartford, CT 06106
860.547.1970
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CHESHIRE, CT 06410
203.271.1773
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BLOOMFIELD PUBLIC LIBRARY McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIONS

1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C3.0

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SEDIMENT AND EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT. IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

GENERAL:

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
   a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   b. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   c. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
   d. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
   e. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
   f. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
   g. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:

1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
3. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
4. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 2 TONS PER ACRE.

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF LARGE STONES , LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
5. SOLUBLE SALT CONTENT OF LESS THAN 400 PPM IS REQUIRED.
6. THE TOPSOIL SHALL BE WARRANTED BY SELLER TO BE FREE OF DETECTABLE RESIDUES OF CHEMICAL PESTICIDES, HERBICIDES, PETROLEUM PRODUCTS, OR OTHER UNSUITABLE TOXINS.

APPLICATION:

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR INCHES (4"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

GENERAL:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
   ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
4. UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST INTO THE SOIL - APPLY IT EVENLY TO SOIL SURFACE AS A SEED BED.
5. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

SITE PREPARATION:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING)
2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW AND ANCHOR TO SLOPES GREATER THAN 3%%% OR WHERE NEEDED.

PERMANENT VEGETATIVE COVER

GENERAL:

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
5. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
   ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
6. UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST

VEGETATED COVER SELECTION AND MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 5 LBS./1,000 SQ.FT. (LOLIUM PERENNE)
DUTCH WHITE CLOVER (TRIFOLIUM REPENS) 1/4 LBS PER 1000 SF. OR 6LBS/AC.

* PERMANENT VEGETATIVE COVER:

DUTCH WHITE CLOVER 30%
BARON KENTUCKY BLUEGRASS 30%
JAMESTOWN II CHEWINGS FESCUE 20%
PALMER PERENNIAL RYEGRASS 20%

* LOFTS - "TRIPLEX GENERAL" MIX OR APPROVED EQUAL. RECOMMENDED RATE/TIME SEEDING.
SPRING SEEDING: 4/1 to 5/31
FALL SEEDING: 8/16 to 10/15

TEMPORARY MULCHING:

STRAY 70-90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS) WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

ESTABLISHMENT:
1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
6. USE PROPER INOCULAT ON ALL LEGUME SEEDLINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.

EROSION CHECKS

GENERAL:

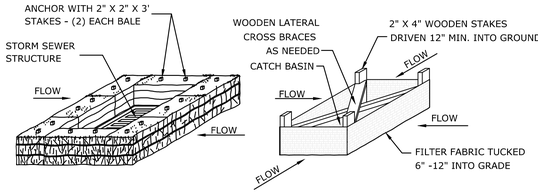
1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

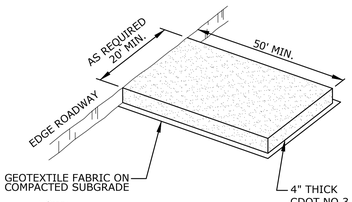


HAY BALE INSTALLATION AT CATCH BASIN

SEDIMENT FILER FENCE INSTALLATION AT CATCH BASIN

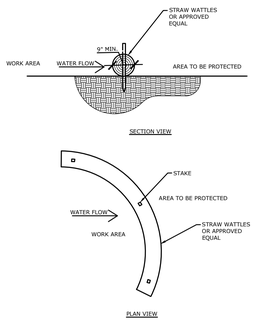
CATCH BASIN IN A DEPTH

INLET PROTECTION
NOT TO SCALE

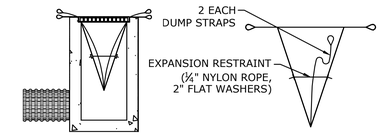


NOTE:
1. CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD

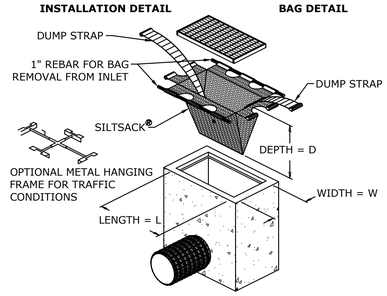
CONSTRUCTION ENTRANCE PAD
NOT TO SCALE



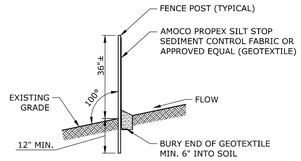
STRAW WATTLES
NOT TO SCALE



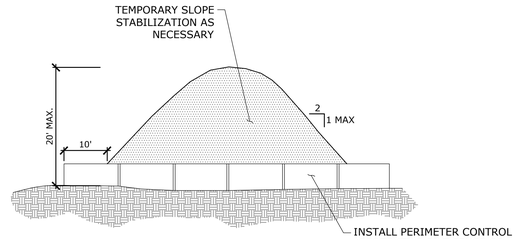
INSTALLATION DETAIL **BAG DETAIL**



INLET PROTECTION
NOT TO SCALE



SEDIMENT FILTER FENCE
NOT TO SCALE



NOTES:
1. INSTALL A GEOTEXTILE SILT FENCE AND/OR HAY BALE BARRIER AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE PROPOSED TOE OF SLOPE.

2. SIDE SLOPES SHALL NOT EXCEED A SLOPE OF 2:1. STOCKPILES THAT REMAIN INACTIVE FOR MORE THAN 30 DAYS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION

3. DISTANCE FROM WETLANDS, WATERCOURSES, DRAINAGE WAYS AND STEEP SLOPES SHALL BE MAXIMIZED. RUNOFF SHALL BE DIVERTED AWAY FROM STOCKPILE AREA

TEMPORARY SOIL STOCKPILE
NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE (SF), STRAW WATTLES (SW) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
CONSTRUCTION ENTRANCE (CE)	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6` OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.

PLOTTED: 2/6/2023 2:57:12 PM By: RYE
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BLOOMFIELD, CT 06002

PROJECT

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KEY PLAN

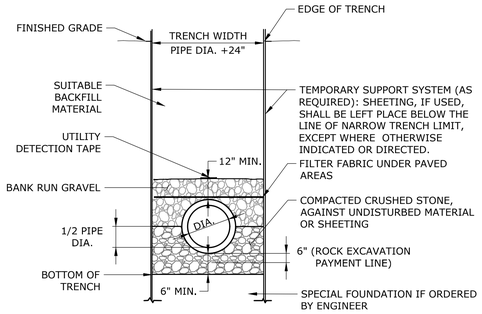
DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS AND SPECIFICATIONS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	AS NOTED
DATE:	02/06/2023
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

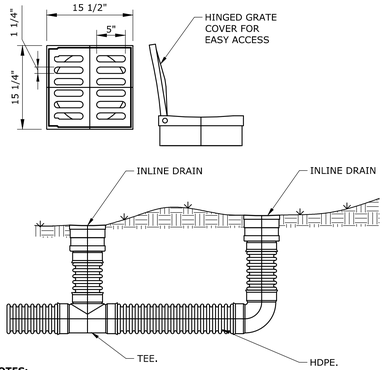
NO.	DATE	PURPOSE

C3.1



TYPICAL TRENCH SECTION STORM DRAIN AND CULVERTS

NOT TO SCALE



NOTES:

1. ALL AREA DRAIN GRATES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS.

   1.1. 15" CAST IRON GRATE DRAIN AREA = 92.5SQ. INCH GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING .

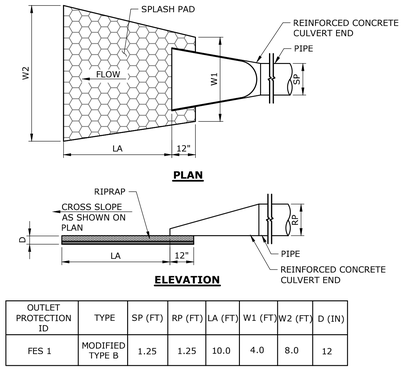
   1.2. MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B.

   1.3. CASTINGS ARE FURNISHED WITH A BLACK PAINT.

   1.4. INLINE DRAIN TO BE NYLOPLAST INC OR APPROVED EQUAL.

AREA DRAIN AND GRATE

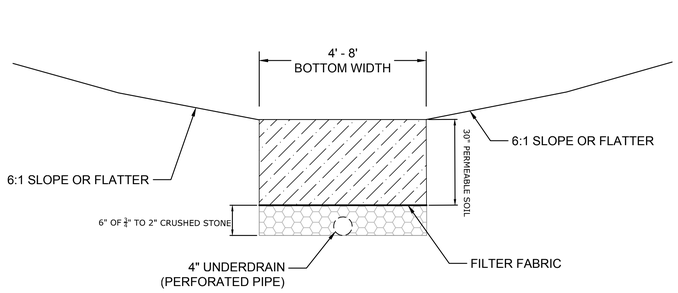
NOT TO SCALE



OUTLET PROTECTION ID	TYPE	SP (FT)	RP (FT)	LA (FT)	W1 (FT)	W2 (FT)	D (IN)
FES 1	MODIFIED TYPE B	1.25	1.25	10.0	4.0	8.0	12

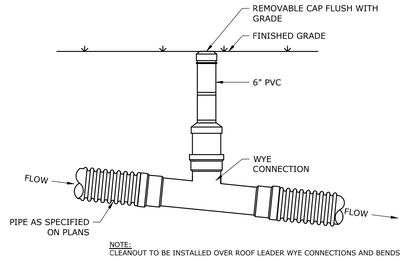
FLARED END WITH RIP RAP SPLASH PAD

NOT TO SCALE



DRY WATER QUALITY SWALE CROSS SECTION

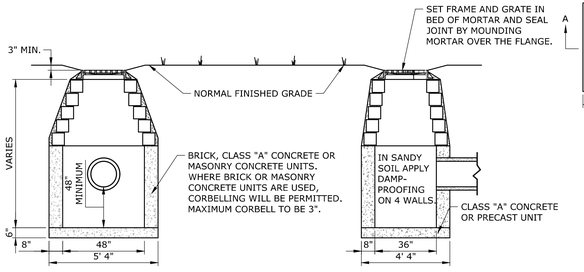
NOT TO SCALE



NOTE:
CLEANOUT TO BE INSTALLED OVER ROOF LEADER WYE CONNECTIONS AND BENDS

ROOF LEADER CLEAN OUT FOR UNPAVED SURFACES

NOT TO SCALE



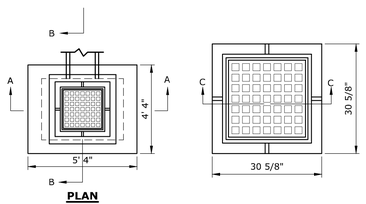
SECTION A-A **SECTION B-B**

NOTES:

1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

YARD DRAIN

NOT TO SCALE



PLAN

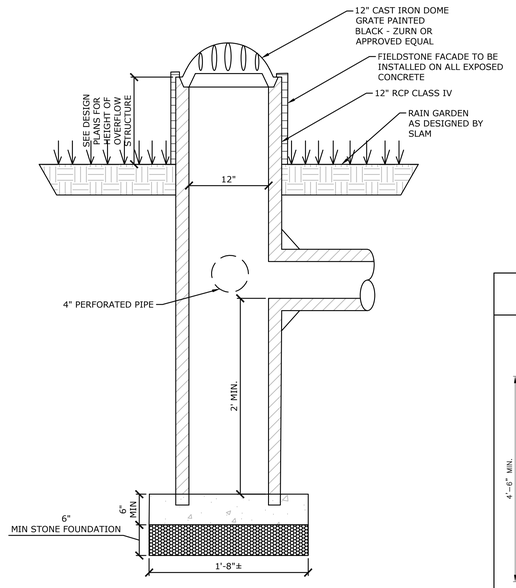
SECTION C-C

NOTES:

1. YARD DRAIN FRAMES & GRATES SHALL BE PATTERN #R-3404 AS MANUFACTURED BY THE "NEENAH FOUNDRY COMPANY" OF NEENAH, WISCONSIN, OR APPROVED EQUAL.

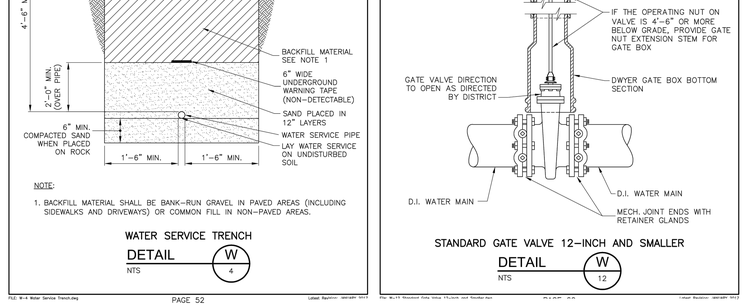
YARD DRAIN FRAME & GRATE

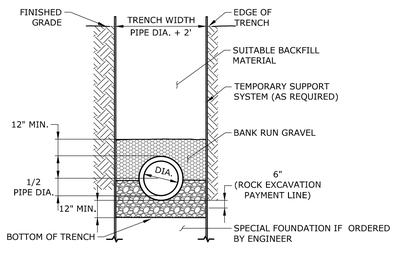
NOT TO SCALE



OVERFLOW STRUCTURE WITH DOME GRATE

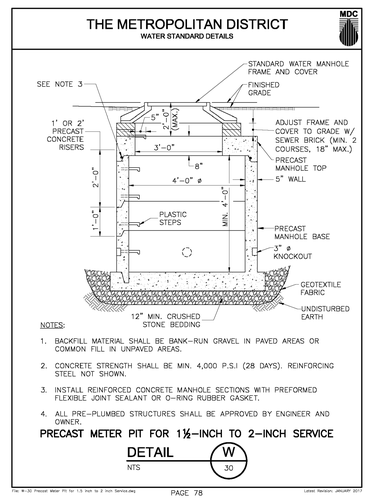
NOT TO SCALE





SANITARY SEWER TRENCH

NOT TO SCALE



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STATE OF CONNECTICUT REGISTERED LICENSED PROFESSIONAL ENGINEER 019360

PROJECT

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KEY PLAN

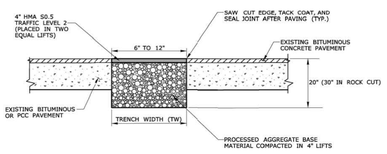
DRAWING TITLE
SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	AS NOTED
DATE:	02/06/2023
DRAWN BY:	RYE
CHECKED BY:	TD

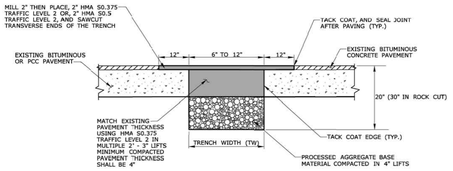
ISSUE DATES

NO.	DATE	PURPOSE

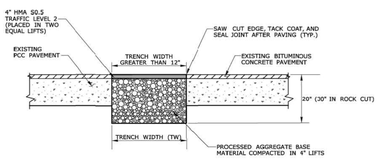
C4.0



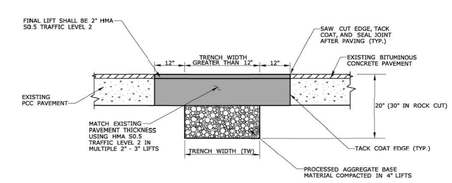
TEMPORARY PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")



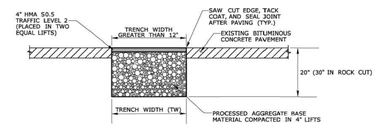
PERMANENT PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")



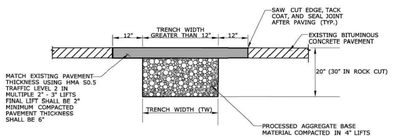
TEMPORARY PAVEMENT FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH GREATER THAN 12")



PERMANENT PAVEMENT FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH GREATER THAN 12")



TEMPORARY PAVEMENT FOR TRENCH THROUGH BITUMINOUS CONCRETE (TRENCH WIDTH GREATER THAN 12")



PERMANENT PAVEMENT FOR TRENCH THROUGH BITUMINOUS CONCRETE

GENERAL NOTES:

1. LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:

   A. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:

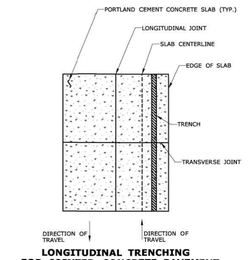
      a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
      b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

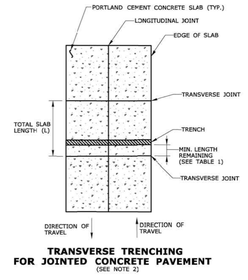
TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

   A. FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:

      a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
      b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"



LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 1)



TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 2)

DESIGNER/DRAFTER:	CHECKED BY:	SIGNATURE/ BLOCK:	APPROVED BY:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: ####
PROJECT DESCRIPTION: ####
TOWN(S): ####
DRAWING TITLE: PAVEMENT REPAIR

DRAWING NO.: ####
SHEET NO.:

LASTED SAVED BY: RichardsTH **FILE NAME:** W:\CT_CONNECT_DOT\CT_Configuration\Organization\Civil\CTDOT_Borders_Contract.cel
PLOTTED DATE: 10/15/2021

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KEY PLAN

DRAWING TITLE
SITE DETAILS

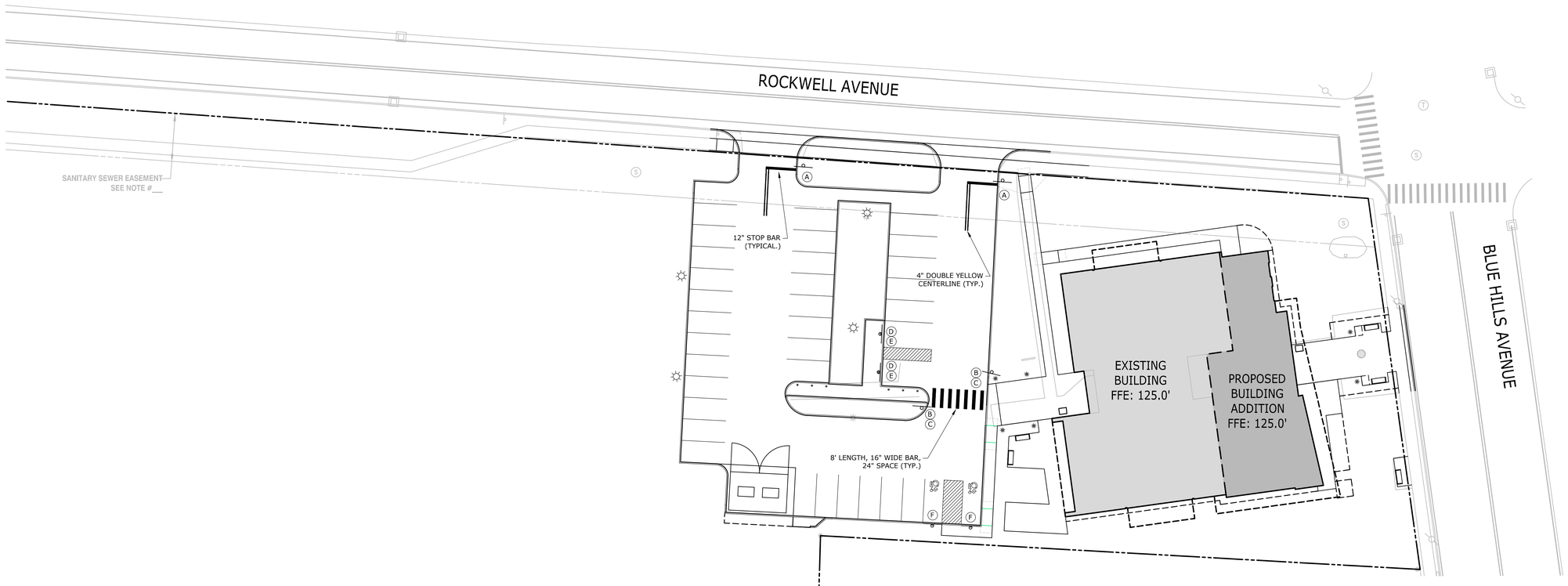
STATE PROJ NO.	
PROJECT NO.	220103
SCALE	AS NOTED
DATE:	02/06/2023
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C4.1

Plotted by: Richards, Tom Tue, Feb 14, 2023 - 8:58:59 AM
J:\PROJECTS\2022\220103 - Bloomfield Library\CAD\Sheets\C4.1 Site Details.dwg



SIGN LEGEND

(A)	INSTALL 31-0552	(E)	INSTALL CUSTOM SUBMOUNT 18" X 9"
(B)	INSTALL 41-4810	(F)	INSTALL CUSTOM 12" X 18"
(C)	INSTALL 41-2607		
(D)	INSTALL MUTCD R7-111		

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KEY PLAN

DRAWING TITLE
SIGNAGE AND PAVEMENT MARKING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

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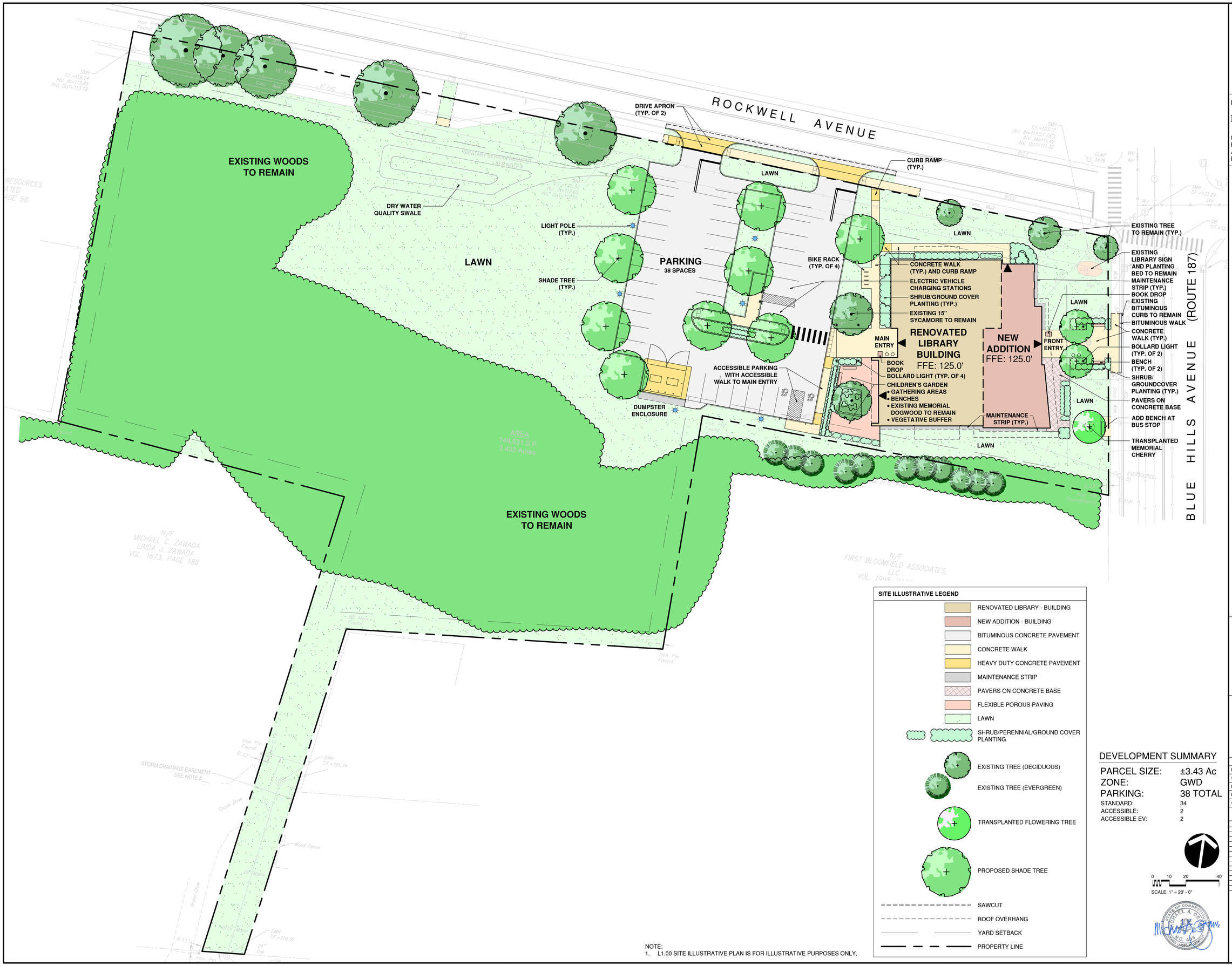

SITE ILLUSTRATIVE LEGEND

- RENOVATED LIBRARY - BUILDING
- NEW ADDITION - BUILDING
- BITUMINOUS CONCRETE PAVEMENT
- CONCRETE WALK
- HEAVY DUTY CONCRETE PAVEMENT
- MAINTENANCE STRIP
- PAVERS ON CONCRETE BASE
- FLEXIBLE POROUS PAVING
- LAWN
- SHRUB/PERENNIAL/GROUND COVER PLANTING
- EXISTING TREE (DECIDUOUS)
- EXISTING TREE (EVERGREEN)
- TRANSPLANTED FLOWERING TREE
- PROPOSED SHADE TREE
- SAWCUT
- ROOF OVERHANG
- YARD SETBACK
- PROPERTY LINE

NOTE:
1. L1.00 SITE ILLUSTRATIVE PLAN IS FOR ILLUSTRATIVE PURPOSES ONLY.

DEVELOPMENT SUMMARY

PARCEL SIZE:	±3.43 Ac
ZONE:	GWD
PARKING:	38 TOTAL
STANDARD:	34
ACCESSIBLE:	2
ACCESSIBLE EV:	2

0 10 20 40'
SCALE: 1" = 20' - 0"

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LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT
P.O. BOX 567
AVON, CT 06001
PHONE: 860-678-0669

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SITE ILLUSTRATIVE PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

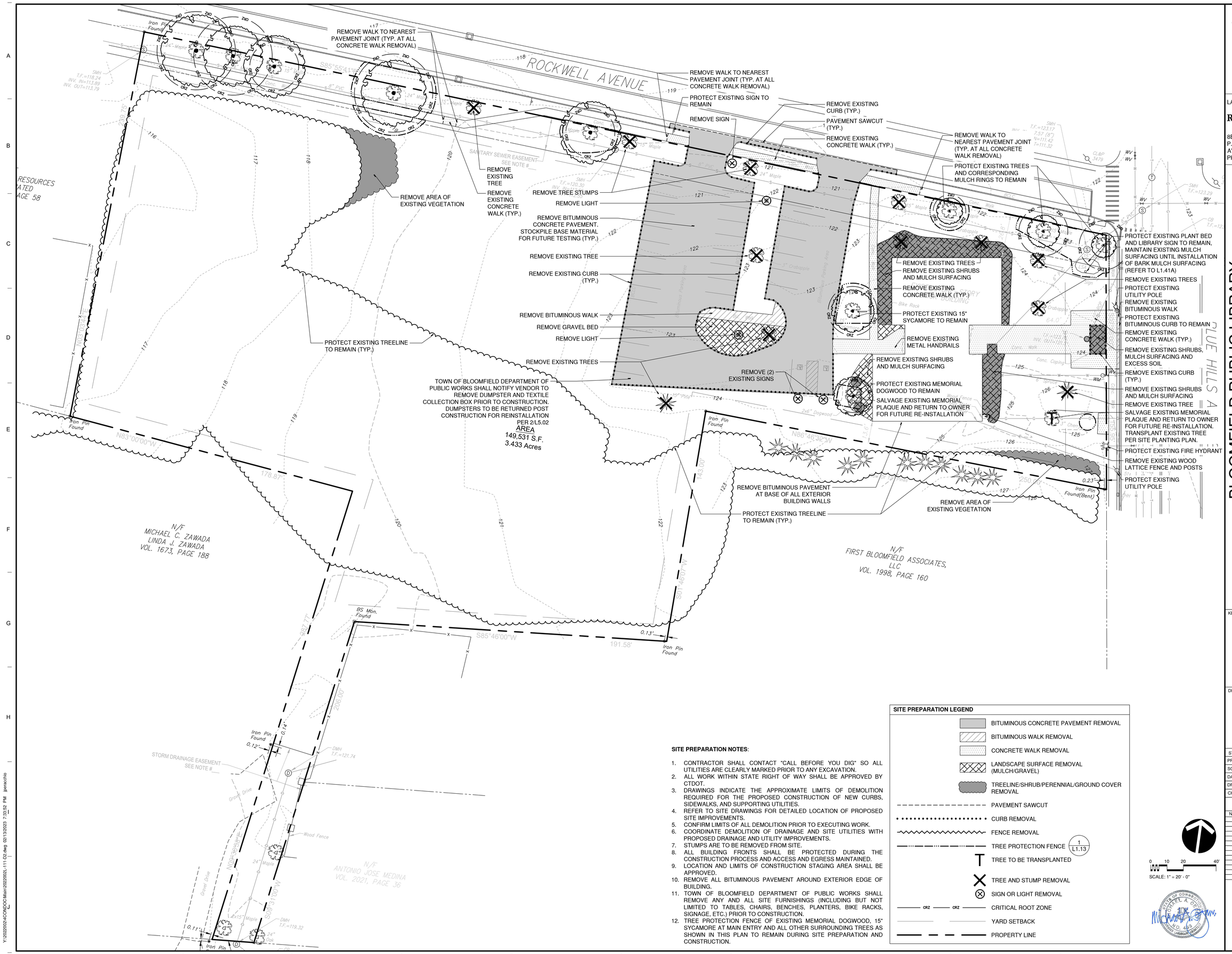
ISSUE DATES

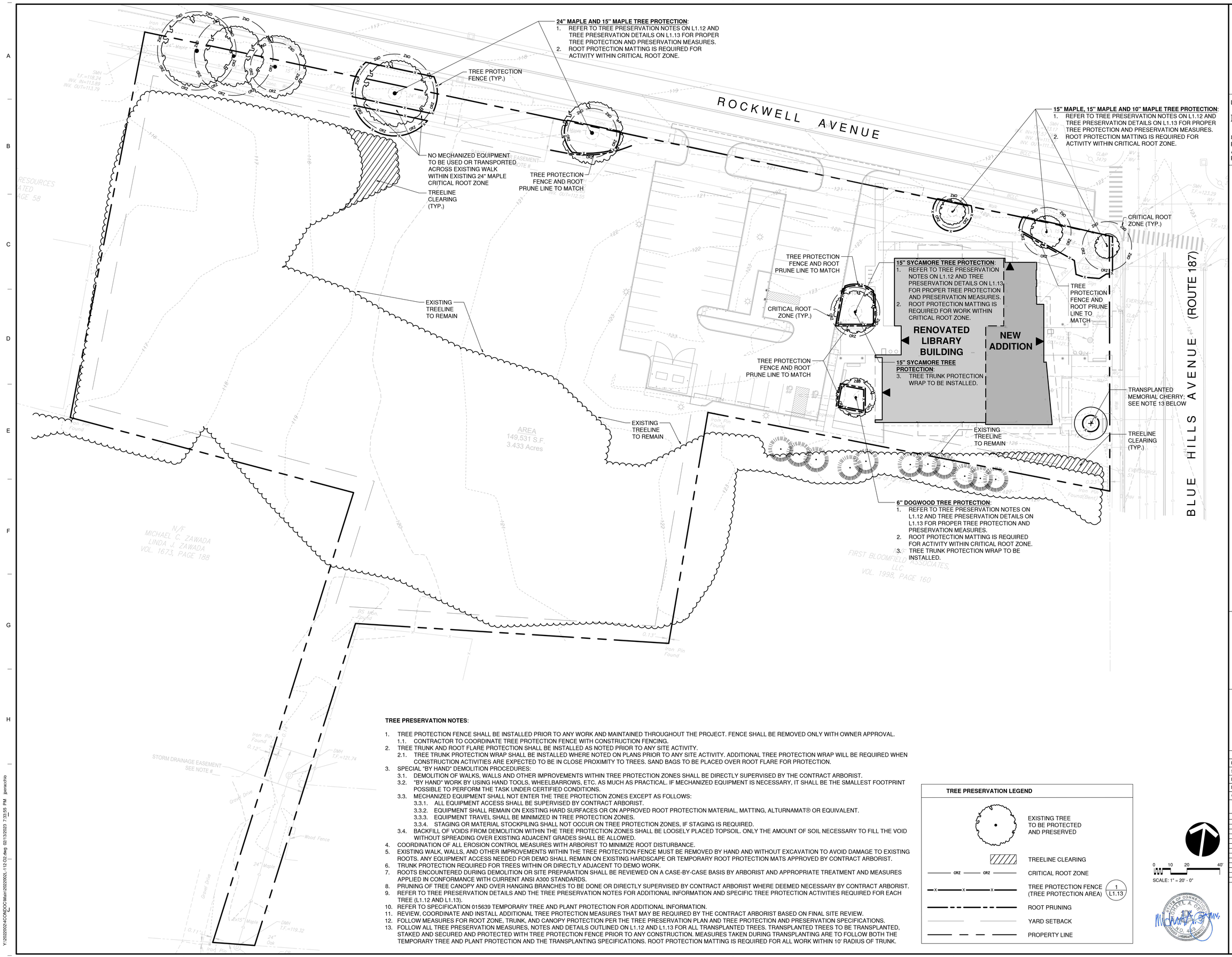
NO.	DATE	PURPOSE

STATE OF CONNECTICUT MICHAEL A. CEGAN NO. 453 REGISTERED LANDSCAPE ARCHITECT

L1.00

Y:\2022\2022-40\CONDOC\Main\20220021-100-D2.dwg 02/13/2023 7:32:48 PM jpersicchio


ROCKWELL AVENUE
BLUE HILLS AVE.
REMOVE WALK TO NEAREST PAVEMENT JOINT (TYP. AT ALL CONCRETE WALK REMOVAL)
PROTECT EXISTING SIGN TO REMAIN
REMOVE SIGN
REMOVE EXISTING CURB (TYP.)
PAVEMENT SAWCUT (TYP.)
REMOVE EXISTING CONCRETE WALK (TYP.)
REMOVE WALK TO NEAREST PAVEMENT JOINT (TYP. AT ALL CONCRETE WALK REMOVAL)
PROTECT EXISTING TREES AND CORRESPONDING MULCH RINGS TO REMAIN
REMOVE EXISTING TREE
REMOVE EXISTING CONCRETE WALK (TYP.)
REMOVE AREA OF EXISTING VEGETATION
REMOVE TREE STUMPS
REMOVE LIGHT
REMOVE BITUMINOUS CONCRETE PAVEMENT. STOCKPILE BASE MATERIAL FOR FUTURE TESTING (TYP.)
REMOVE EXISTING TREE
REMOVE EXISTING CURB (TYP.)
REMOVE BITUMINOUS WALK
REMOVE GRAVEL BED
REMOVE LIGHT
REMOVE EXISTING TREES
PROTECT EXISTING TREELINE TO REMAIN (TYP.)
TOWN OF BLOOMFIELD DEPARTMENT OF PUBLIC WORKS SHALL NOTIFY VENDOR TO REMOVE DUMPSTER AND TEXTILE COLLECTION BOX PRIOR TO CONSTRUCTION. DUMPSTERS TO BE RETURNED POST CONSTRUCTION FOR REINSTALLATION PER 2/L5.02
AREA
149,531 S.F.
3.433 Acres
REMOVE (2) EXISTING SIGNS
REMOVE EXISTING TREES
REMOVE EXISTING SHRUBS AND MULCH SURFACING
REMOVE EXISTING CONCRETE WALK (TYP.)
PROTECT EXISTING 15" SYCAMORE TO REMAIN
REMOVE EXISTING METAL HANDRAILS
REMOVE EXISTING SHRUBS AND MULCH SURFACING
PROTECT EXISTING MEMORIAL DOGWOOD TO REMAIN
SALVAGE EXISTING MEMORIAL PLAQUE AND RETURN TO OWNER FOR FUTURE RE-INSTALLATION
PROTECT EXISTING PLANT BED AND LIBRARY SIGN TO REMAIN, MAINTAIN EXISTING MULCH SURFACING UNTIL INSTALLATION OF BARK MULCH SURFACING (REFER TO L1.41A)
REMOVE EXISTING TREES
PROTECT EXISTING UTILITY POLE
REMOVE EXISTING BITUMINOUS WALK
PROTECT EXISTING BITUMINOUS CURB TO REMAIN
REMOVE EXISTING CONCRETE WALK (TYP.)
REMOVE EXISTING SHRUBS, MULCH SURFACING AND EXCESS SOIL
REMOVE EXISTING CURB (TYP.)
REMOVE EXISTING SHRUBS AND MULCH SURFACING
REMOVE EXISTING TREE
SALVAGE EXISTING MEMORIAL PLAQUE AND RETURN TO OWNER FOR FUTURE RE-INSTALLATION. TRANSPLANT EXISTING TREE PER SITE PLANTING PLAN.
PROTECT EXISTING FIRE HYDRANT
REMOVE EXISTING WOOD LATTICE FENCE AND POSTS
PROTECT EXISTING UTILITY POLE
REMOVE BITUMINOUS PAVEMENT AT BASE OF ALL EXTERIOR BUILDING WALLS
PROTECT EXISTING TREELINE TO REMAIN (TYP.)
REMOVE AREA OF EXISTING VEGETATION
N/F MICHAEL C. ZAWADA LINDA J. ZAWADA VOL. 1673, PAGE 188
N/F FIRST BLOOMFIELD ASSOCIATES, LLC VOL. 1998, PAGE 160
N/F ANTONIO JOSE MEDINA VOL. 2021, PAGE 36
BS Mon. Found
Iron Pin Found
Iron Pin Found(Bent)
S85°46'00"W
191.58'
S04°31'00"W
200.00'
N04°31'00"E
200.77'
0.13'
0.14'
0.12'
0.11'
DMH T.F.=121.74
DMH T.F.=119.33
SMH T.F.=123.17
SMH T.F.=123.29
CB T.F.=120.30
STORM DRAINAGE EASEMENT SEE NOTE #
SANITARY SEWER EASEMENT SEE NOTE #
Gravel Drive
Wood Fence
Bituminous Pathway Area
Bituminous Parking Area
Bike Rack
Conc. Coping
Ward Fence
Cherry
Crabapple
Maple
Dogwood
Pine
Oak
Hemlock
Arborvitae
Shrub
Conc. Walk
Bit. Walk
Bit. Curb
Conc. Curb
Gravel Bed
Light
Sign
Tree
Stump
Utility Pole
Fire Hydrant
Wood Lattice Fence
Bituminous Pavement
Building
Entrance
Exit
Ramp
Steps
Handrail
Metal Handrail
Conc. Wall
Retaining Wall
Stone Wall
Wood Fence
Iron Pin Found



TREE PRESERVATION NOTES:

1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY WORK AND MAINTAINED THROUGHOUT THE PROJECT. FENCE SHALL BE REMOVED ONLY WITH OWNER APPROVAL.
   1.1. CONTRACTOR TO COORDINATE TREE PROTECTION FENCE WITH CONSTRUCTION FENCING.
2. TREE TRUNK AND ROOT FLARE PROTECTION SHALL BE INSTALLED AS NOTED PRIOR TO ANY SITE ACTIVITY.
   2.1. TREE TRUNK PROTECTION WRAP SHALL BE INSTALLED WHERE NOTED ON PLANS PRIOR TO ANY SITE ACTIVITY. ADDITIONAL TREE PROTECTION WRAP WILL BE REQUIRED WHEN CONSTRUCTION ACTIVITIES ARE EXPECTED TO BE IN CLOSE PROXIMITY TO TREES. SAND BAGS TO BE PLACED OVER ROOT FLARE FOR PROTECTION.
3. SPECIAL "BY HAND" DEMOLITION PROCEDURES:
   3.1. DEMOLITION OF WALKS, WALLS AND OTHER IMPROVEMENTS WITHIN TREE PROTECTION ZONES SHALL BE DIRECTLY SUPERVISED BY THE CONTRACT ARBORIST.
   3.2. "BY HAND" WORK BY USING HAND TOOLS, WHEELBARROWS, ETC. AS MUCH AS PRACTICAL. IF MECHANIZED EQUIPMENT IS NECESSARY, IT SHALL BE THE SMALLEST FOOTPRINT POSSIBLE TO PERFORM THE TASK UNDER CERTIFIED CONDITIONS.
   3.3. MECHANIZED EQUIPMENT SHALL NOT ENTER THE TREE PROTECTION ZONES EXCEPT AS FOLLOWS:
      3.3.1. ALL EQUIPMENT ACCESS SHALL BE SUPERVISED BY CONTRACT ARBORIST.
      3.3.2. EQUIPMENT SHALL REMAIN ON EXISTING HARD SURFACES OR ON APPROVED ROOT PROTECTION MATERIAL, MATTING, ALTURNAMAT® OR EQUIVALENT.
      3.3.3. EQUIPMENT TRAVEL SHALL BE MINIMIZED IN TREE PROTECTION ZONES.
      3.3.4. STAGING OR MATERIAL STOCKPILING SHALL NOT OCCUR ON TREE PROTECTION ZONES, IF STAGING IS REQUIRED.
   3.4. BACKFILL OF VOIDS FROM DEMOLITION WITHIN THE TREE PROTECTION ZONES SHALL BE LOOSELY PLACED TOPSOIL. ONLY THE AMOUNT OF SOIL NECESSARY TO FILL THE VOID WITHOUT SPREADING OVER EXISTING ADJACENT GRADES SHALL BE ALLOWED.
4. COORDINATION OF ALL EROSION CONTROL MEASURES WITH ARBORIST TO MINIMIZE ROOT DISTURBANCE.
5. EXISTING WALK, WALLS, AND OTHER IMPROVEMENTS WITHIN THE TREE PROTECTION FENCE MUST BE REMOVED BY HAND AND WITHOUT EXCAVATION TO AVOID DAMAGE TO EXISTING ROOTS. ANY EQUIPMENT ACCESS NEEDED FOR DEMO SHALL REMAIN ON EXISTING HARDSCAPE OR TEMPORARY ROOT PROTECTION MATS APPROVED BY CONTRACT ARBORIST.
6. TRUNK PROTECTION REQUIRED FOR TREES WITHIN OR DIRECTLY ADJACENT TO DEMO WORK.
7. ROOTS ENCOUNTERED DURING DEMOLITION OR SITE PREPARATION SHALL BE REVIEWED ON A CASE-BY-CASE BASIS BY ARBORIST AND APPROPRIATE TREATMENT AND MEASURES APPLIED IN CONFORMANCE WITH CURRENT ANSI A300 STANDARDS.
8. PRUNING OF TREE CANOPY AND OVER HANGING BRANCHES TO BE DONE OR DIRECTLY SUPERVISED BY CONTRACT ARBORIST WHERE DEEMED NECESSARY BY CONTRACT ARBORIST.
9. REFER TO TREE PRESERVATION DETAILS AND THE TREE PRESERVATION NOTES FOR ADDITIONAL INFORMATION AND SPECIFIC TREE PROTECTION ACTIVITIES REQUIRED FOR EACH TREE (L1.12 AND L1.13).
10. REFER TO SPECIFICATION 015639 TEMPORARY TREE AND PLANT PROTECTION FOR ADDITIONAL INFORMATION.
11. REVIEW, COORDINATE AND INSTALL ADDITIONAL TREE PROTECTION MEASURES THAT MAY BE REQUIRED BY THE CONTRACT ARBORIST BASED ON FINAL SITE REVIEW.
12. FOLLOW MEASURES FOR ROOT ZONE, TRUNK, AND CANOPY PROTECTION PER THE TREE PRESERVATION PLAN AND TREE PROTECTION AND PRESERVATION SPECIFICATIONS.
13. FOLLOW ALL TREE PRESERVATION MEASURES, NOTES AND DETAILS OUTLINED ON L1.12 AND L1.13 FOR ALL TRANSPLANTED TREES. TRANSPLANTED TREES TO BE TRANSPLANTED, STAKED AND SECURED AND PROTECTED WITH TREE PROTECTION FENCE PRIOR TO ANY CONSTRUCTION. MEASURES TAKEN DURING TRANSPLANTING ARE TO FOLLOW BOTH THE TEMPORARY TREE AND PLANT PROTECTION AND THE TRANSPLANTING SPECIFICATIONS. ROOT PROTECTION MATTING IS REQUIRED FOR ALL WORK WITHIN 10' RADIUS OF TRUNK.

TREE PRESERVATION LEGEND

- EXISTING TREE TO BE PROTECTED AND PRESERVED
- TREELINE CLEARING
- CRZ — CRZ — CRITICAL ROOT ZONE
- x — x — x — TREE PROTECTION FENCE (TREE PROTECTION AREA) (1 / L1.13)
- ROOT PRUNING
- YARD SETBACK
- PROPERTY LINE

0 10 20 40'
SCALE: 1" = 20' - 0"

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1015 BLUE HILLS AVE.
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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

TREE PRESERVATION PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L1.12

STATE OF CONNECTICUT MICHAEL A. CEGAN REGISTERED LANDSCAPE ARCHITECT NO. 439 LICENSE EXPIRES JUNE 30, 2023

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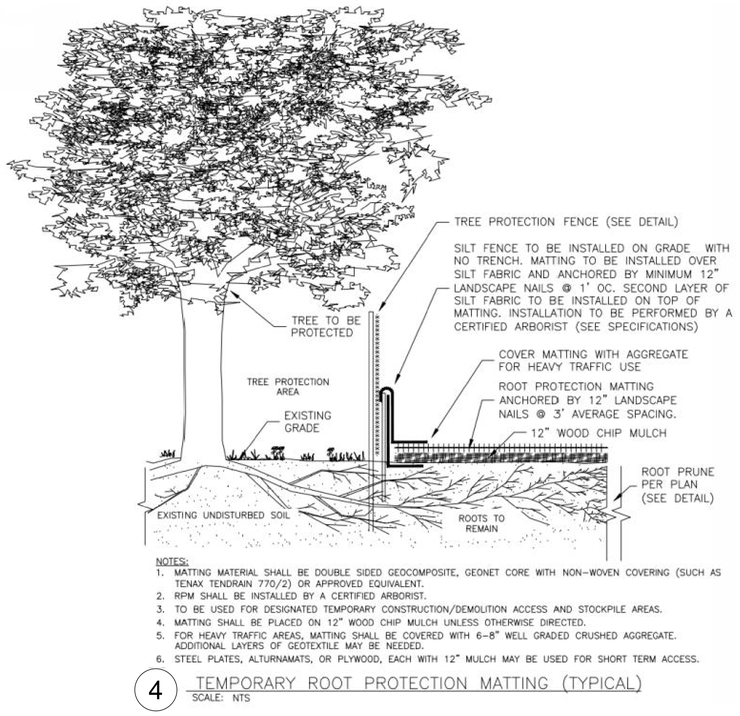
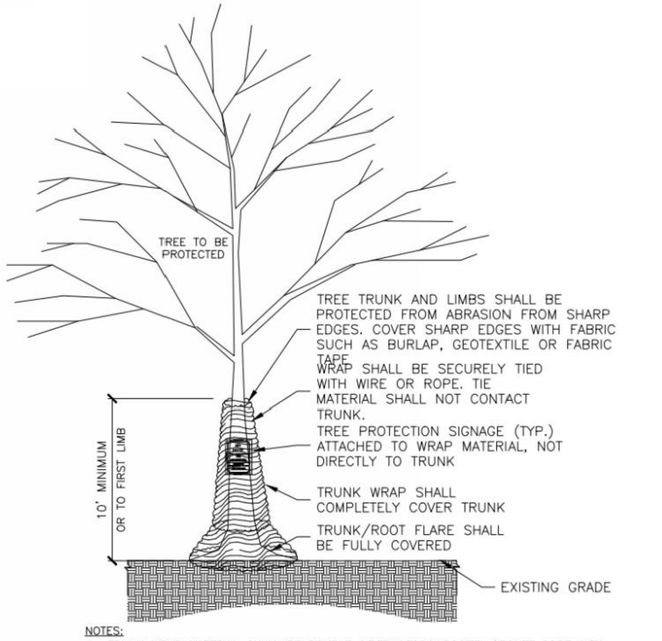


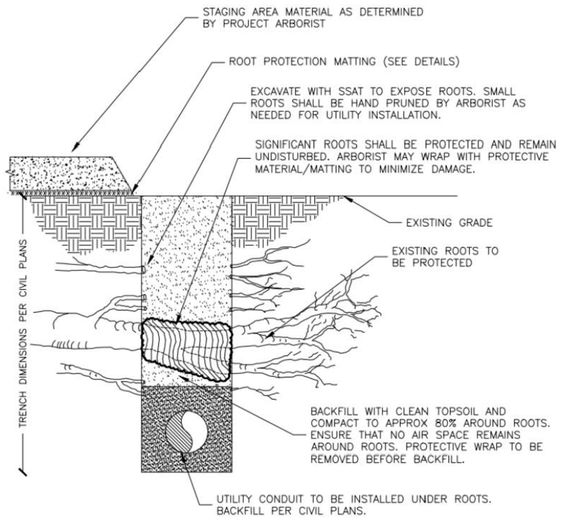
NOTES:
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR APPROVED EQUIVALENT.
2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION/DEMOLITION ACCESS AND STOCKPILE AREAS.
4. MATTING SHALL BE PLACED ON 12" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH 6-8" WELL GRADED CRUSHED AGGREGATE. ADDITIONAL LAYERS OF GEOTEXTILE MAY BE NEEDED.
6. STEEL PLATES, ALTURNAMATS, OR PLYWOOD, EACH WITH 12" MULCH MAY BE USED FOR SHORT TERM ACCESS.

4 TEMPORARY ROOT PROTECTION MATTING (TYPICAL)
SCALE: NTS

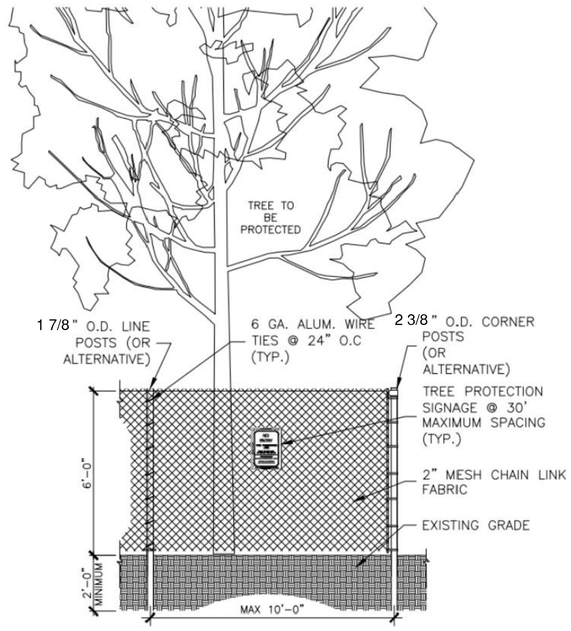


NOTES:
1. TRUNK WRAP MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR EQUIVALENT.
2. WRAP SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. WRAP SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
4. WRAP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE WRAP ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.
5. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.
6. MAJOR SCAFFOLD LIMBS MAY ALSO REQUIRE THIS PROTECTION AS DIRECTED BY THE PROJECT ARBORIST.

2 TREE TRUNK & LIMB PROTECTION WRAP (TYP)
SCALE: NTS



3 ROOT PROTECTION IN UTILITY TRENCH
SCALE: NTS



NOTES:
1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
2. SUPER SILT FENCE MAY BE USED IN LIEU OF WELDED WIRE FOR TREE PROTECTION PROVIDED IT IS INSTALLED AND MAINTAINED AS A TREE PROTECTION MEASURE AND IS POSTED WITH TREE PROTECTION SIGNS.
3. TREE PROTECTION FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE FENCE ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.

1 CHAIN LINK TREE PROTECTION FENCE (TYPICAL)
SCALE: NTS

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE
TREE PRESERVATION DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	N.T.S.
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L1.13

STATE OF CONNECTICUT
CORTELL A. CEGAN
REG. NO. 460
REGISTERED LANDSCAPE ARCHITECT

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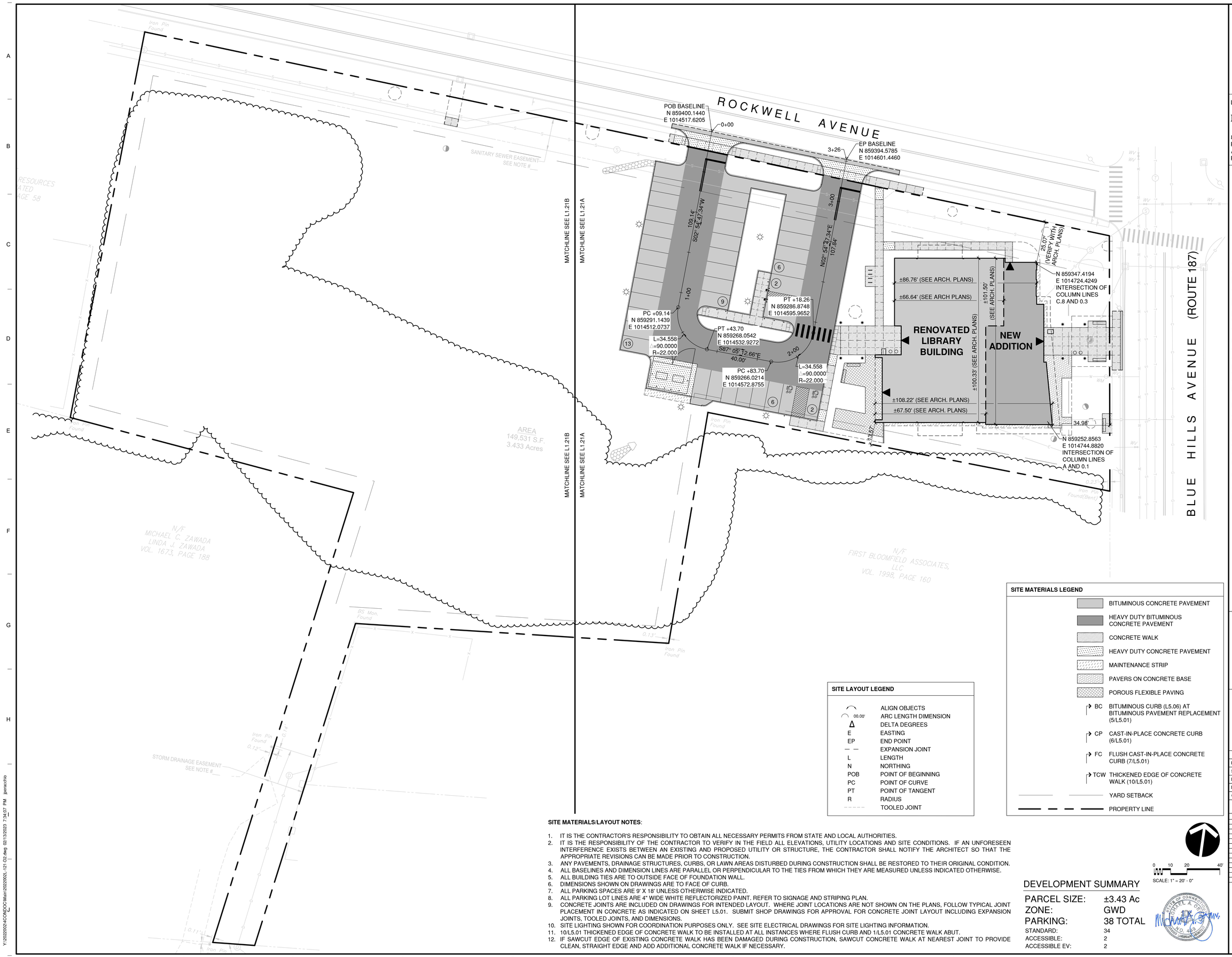

SITE LAYOUT LEGEND

◠	ALIGN OBJECTS
◠ 00.00'	ARC LENGTH DIMENSION
Δ	DELTA DEGREES
E	EASTING
EP	END POINT
— —	EXPANSION JOINT
L	LENGTH
N	NORTHING
POB	POINT OF BEGINNING
PC	POINT OF CURVE
PT	POINT OF TANGENT
R	RADIUS
- - - - -	TOOLED JOINT

SITE MATERIALS LEGEND

	BITUMINOUS CONCRETE PAVEMENT
	HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT
	CONCRETE WALK
	HEAVY DUTY CONCRETE PAVEMENT
	MAINTENANCE STRIP
	PAVERS ON CONCRETE BASE
	POROUS FLEXIBLE PAVING
BC	BITUMINOUS CURB (L5.06) AT BITUMINOUS PAVEMENT REPLACEMENT (5/L5.01)
CP	CAST-IN-PLACE CONCRETE CURB (6/L5.01)
FC	FLUSH CAST-IN-PLACE CONCRETE CURB (7/L5.01)
TCW	THICKENED EDGE OF CONCRETE WALK (10/L5.01)
	YARD SETBACK
	PROPERTY LINE

SITE MATERIALS/LAYOUT NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS FROM STATE AND LOCAL AUTHORITIES.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IN THE FIELD ALL ELEVATIONS, UTILITY LOCATIONS AND SITE CONDITIONS. IF AN UNFORESEEN INTERFERENCE EXISTS BETWEEN AN EXISTING AND PROPOSED UTILITY OR STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT THE APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION.
3. ANY PAVEMENTS, DRAINAGE STRUCTURES, CURBS, OR LAWN AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
4. ALL BASELINES AND DIMENSION LINES ARE PARALLEL OR PERPENDICULAR TO THE TIES FROM WHICH THEY ARE MEASURED UNLESS INDICATED OTHERWISE.
5. ALL BUILDING TIES ARE TO OUTSIDE FACE OF FOUNDATION WALL.
6. DIMENSIONS SHOWN ON DRAWINGS ARE TO FACE OF CURB.
7. ALL PARKING SPACES ARE 9' X 18' UNLESS OTHERWISE INDICATED.
8. ALL PARKING LOT LINES ARE 4" WIDE WHITE REFLECTORIZED PAINT. REFER TO SIGNAGE AND STRIPING PLAN.
9. CONCRETE JOINTS ARE INCLUDED ON DRAWINGS FOR INTENDED LAYOUT. WHERE JOINT LOCATIONS ARE NOT SHOWN ON THE PLANS, FOLLOW TYPICAL JOINT PLACEMENT IN CONCRETE AS INDICATED ON SHEET L5.01. SUBMIT SHOP DRAWINGS FOR APPROVAL FOR CONCRETE JOINT LAYOUT INCLUDING EXPANSION JOINTS, TOOLED JOINTS, AND DIMENSIONS.
10. SITE LIGHTING SHOWN FOR COORDINATION PURPOSES ONLY. SEE SITE ELECTRICAL DRAWINGS FOR SITE LIGHTING INFORMATION.
11. 10/L5.01 THICKENED EDGE OF CONCRETE WALK TO BE INSTALLED AT ALL INSTANCES WHERE FLUSH CURB AND 1/L5.01 CONCRETE WALK ABUT.
12. IF SAWCUT EDGE OF EXISTING CONCRETE WALK HAS BEEN DAMAGED DURING CONSTRUCTION, SAWCUT CONCRETE WALK AT NEAREST JOINT TO PROVIDE CLEAN, STRAIGHT EDGE AND ADD ADDITIONAL CONCRETE WALK IF NECESSARY.

DEVELOPMENT SUMMARY

PARCEL SIZE:	±3.43 Ac
ZONE:	GWD
PARKING:	38 TOTAL
STANDARD:	34
ACCESSIBLE:	2
ACCESSIBLE EV:	2

0 10 20 40'
SCALE: 1" = 20' - 0"

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE
OVERALL
SITE MATERIALS / LAYOUT PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L1.21

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ROCKWELL AVENUE

BLUE HILLS AVENUE (ROUTE 187)

MATCHLINE SEE L1.21B

MATCHLINE SEE L1.21B

RENOVATED LIBRARY BUILDING

NEW ADDITION

ALIGN CONCRETE WALK WITH EXISTING CONCRETE WALK (SEE NOTE 12 ON L1.21)

EXPANSION JOINT AND DOWEL WHERE CONCRETE WALK MEETS EXISTING CONCRETE WALK (TYP.)

7 L5.01 FLUSH CAST-IN-PLACE CONCRETE CURB (ALLOW DRAINAGE TO DRY SWALE PER CIVIL PLANS)

5 L5.01 BITUMINOUS PAVEMENT REPLACEMENT

15 L5.01 FULL WIDTH CURB RAMP

POB BASELINE
N 859400.1625
E 1014517.6215

18 L5.01 DRIVE APRON

1 L5.01 CONCRETE WALK (TYP.)

13 L5.01 DETECTABLE WARNING PAVER 24" X FULL WIDTH SET IN WET CONCRETE (TYP.)

EP BASELINE
N 859394.5780
E 1014601.4460

GRAVEL STRIP (SEE CIVIL PLANS)

N 859376.0341
E 1014516.3936
BEGIN PARKING STALL LAYOUT

N 859371.7650
E 1014600.2851
BEGIN PARKING STALL LAYOUT

6 L5.01 CAST-IN-PLACE CONCRETE CURB

3 L5.01 BITUMINOUS CONCRETE PAVEMENT

LIGHT POLE (TYP. OF 6) (SEE ELECTRICAL PLANS)

4 L5.01 HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT

3 L5.02 VEHICULAR CHARGING STATION LAYOUT

ALIGNMENT (REFER TO L1.21)

10 L5.01 THICKENED EDGE OF CONCRETE WALK

1 L5.03 STEEL PIPE BOLLARD (TYP. OF 3)

13 L5.01 DETECTABLE WARNING PAVER 24" X FULL WIDTH SET IN WET CONCRETE (TYP.)

2 L5.02 DUMPSTER ENCLOSURE

8 L5.01 INTEGRAL CONCRETE WALK/CURB

PAVED LEAKOFF (SEE CIVIL PLANS)

RIPRAP SPLASH PAD (SEE CIVIL PLANS)

1 L5.02 ACCESSIBLE PARKING SPACES

MULCH RINGS CENTERED ON TREE TRUNK (TYP.) (REFER TO L1.41A)

ROOF OVERHANG (TYP.) (SEE ARCH. PLANS)

12 L5.01 MAINTENANCE STRIP (TYP.)

BOOK DROP (SEE ARCH. PLANS)

4 L5.03 BENCH (TYP. OF 2) (A; POROUS FLEXIBLE PAVING CONDITION

17 L5.01 POROUS FLEXIBLE PAVING

3 L5.03 BIKE RACK (TYP. OF 4)

LIGHT BOLLARD (TYP. OF 4) (SEE ELECTRICAL PLANS)

ALIGN EDGE OF CONCRETE WALK WITH CORNER OF BUILDING

16 L5.01 ACCESSIBLE ENTRANCE

ALIGN EDGE OF CONCRETE WALK WITH EDGE OF BUILDING

5 L5.03 TRASH/RECYCLING RECEPTACLES

ALIGN EDGE OF CONCRETE WALK WITH CENTERLINE OF MULLION (REVIEW IN FIELD WITH LANDSCAPE ARCHITECT)

CENTER OF DOOR

ALIGN EDGE OF MAINTENANCE STRIP WITH EDGE OF PAVERS

ALIGN CONCRETE WALK WITH EXISTING CONCRETE WALK (SEE NOTE 12 ON L1.21)

EXPANSION JOINT AND DOWEL WHERE CONCRETE WALK MEETS EXISTING CONCRETE WALK (TYP.)

ALIGN BITUMINOUS WALK WITH EXISTING BITUMINOUS WALK

EXISTING BITUMINOUS CURB TO REMAIN

9 L5.01 CONCRETE WALK AT BITUMINOUS WALK

1 L5.01 CONCRETE WALK (TYP.)

LIGHT BOLLARD (TYP. OF 4) (REFER TO ELECTRICAL PLANS)

5 L5.03 TRASH /RECYCLING RECEPTACLES

5 L5.02 PAVER LAYOUT

1 L5.01 CONCRETE WALK (TYP.)

4 L5.03 BENCH

12 L5.01 MAINTENANCE STRIP (TYP.)

ALIGN CONCRETE WALK WITH EXISTING CONCRETE WALK (SEE NOTE 12 ON L1.21)

N 859263.0320
E 1014783.2944
CORNER OF CONCRETE PAD

EXPANSION JOINT AND DOWEL WHERE CONCRETE WALK MEETS EXISTING CONCRETE WALK (TYP.)

N/F FIRST BLOOMFIELD ASSOCIATES LLC

Iron Pin Found

0.23' Iron Pin Found(Bent)

SCALE: 1" = 10' - 0"

NOTE:
1. REFER TO L1.21 FOR SITE MATERIALS AND LAYOUT LEGEND AND NOTES.

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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

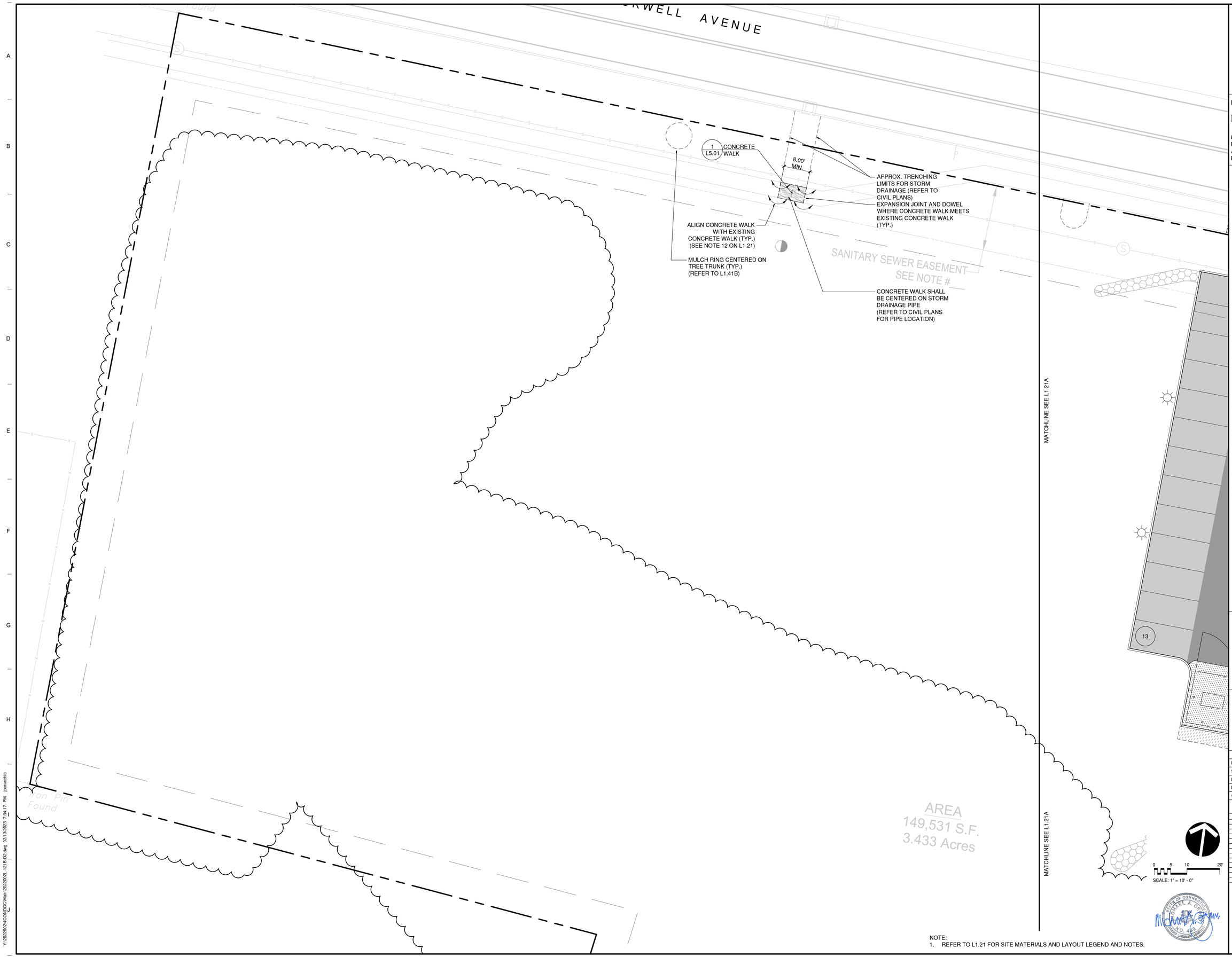
SITE MATERIALS / LAYOUT PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=10'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L1.21A



NOTE:
1. REFER TO L1.21 FOR SITE MATERIALS AND LAYOUT LEGEND AND NOTES.

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

SITE MATERIALS / LAYOUT PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=10'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

STATE OF CONNECTICUT
CORTEL A. DEAN
REG. NO. 460
REGISTERED LANDSCAPE ARCHITECT

L1.21B

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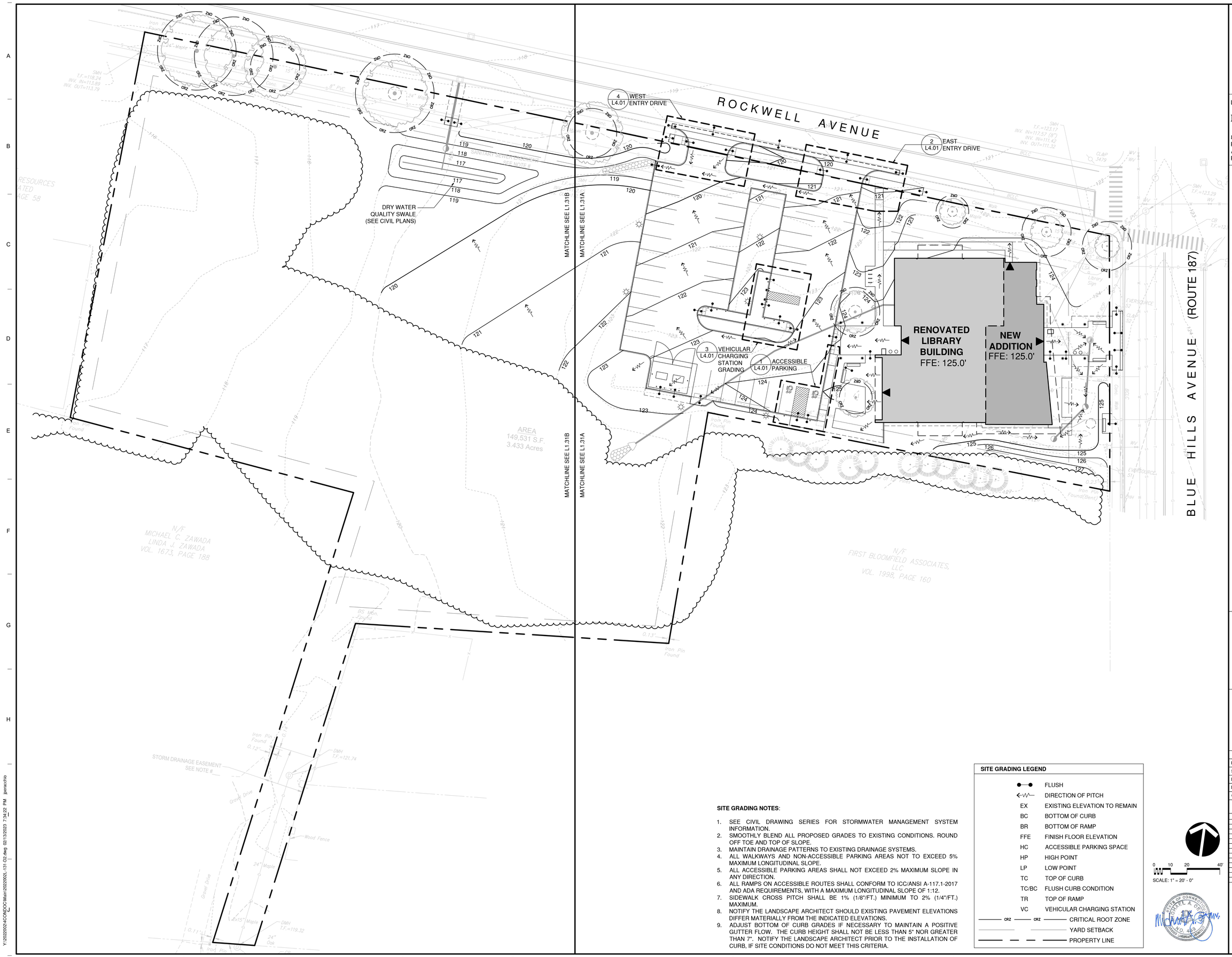

SITE GRADING NOTES:

1. SEE CIVIL DRAWING SERIES FOR STORMWATER MANAGEMENT SYSTEM INFORMATION.
2. SMOOTHLY BLEND ALL PROPOSED GRADES TO EXISTING CONDITIONS. ROUND OFF TOE AND TOP OF SLOPE.
3. MAINTAIN DRAINAGE PATTERNS TO EXISTING DRAINAGE SYSTEMS.
4. ALL WALKWAYS AND NON-ACCESSIBLE PARKING AREAS NOT TO EXCEED 5% MAXIMUM LONGITUDINAL SLOPE.
5. ALL ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
6. ALL RAMPS ON ACCESSIBLE ROUTES SHALL CONFORM TO ICC/ANSI A-117.1-2017 AND ADA REQUIREMENTS, WITH A MAXIMUM LONGITUDINAL SLOPE OF 1:12.
7. SIDEWALK CROSS PITCH SHALL BE 1% (1/8"/FT.) MINIMUM TO 2% (1/4"/FT.) MAXIMUM.
8. NOTIFY THE LANDSCAPE ARCHITECT SHOULD EXISTING PAVEMENT ELEVATIONS DIFFER MATERIALLY FROM THE INDICATED ELEVATIONS.
9. ADJUST BOTTOM OF CURB GRADES IF NECESSARY TO MAINTAIN A POSITIVE GUTTER FLOW. THE CURB HEIGHT SHALL NOT BE LESS THAN 5" NOR GREATER THAN 7". NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF CURB, IF SITE CONDITIONS DO NOT MEET THIS CRITERIA.

SITE GRADING LEGEND

●—●	FLUSH
←W—	DIRECTION OF PITCH
EX	EXISTING ELEVATION TO REMAIN
BC	BOTTOM OF CURB
BR	BOTTOM OF RAMP
FFE	FINISH FLOOR ELEVATION
HC	ACCESSIBLE PARKING SPACE
HP	HIGH POINT
LP	LOW POINT
TC	TOP OF CURB
TC/BC	FLUSH CURB CONDITION
TR	TOP OF RAMP
VC	VEHICULAR CHARGING STATION
CRZ CRZ	CRITICAL ROOT ZONE
	YARD SETBACK
	PROPERTY LINE

0 10 20 40'
SCALE: 1" = 20' - 0"

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BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

OVERALL
SITE GRADING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L1.31

STATE OF CONNECTICUT
MICHAEL A. CEGAN
REG. NO. 19
LANDSCAPE ARCHITECT

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ROCKWELL AVENUE

BLUE HILLS AVENUE (ROUTE 187)

4 L4.01 WEST ENTRY DRIVE

2 L4.01 EAST ENTRY DRIVE

3 L4.01 VEHICULAR CHARGING STATION GRADING

1 L4.01 ACCESSIBLE PARKING

MATCHLINE SEE L1.31B

MATCHLINE SEE L1.31B

RENOVATED LIBRARY BUILDING
FFE: 125.0'

NEW ADDITION
FFE: 125.0'

FFE: 125.0'

FFE: 125.0'

FFE: 125.0'

FFE: 125.0'

SCALE: 1" = 10' - 0"

NOTE:
1. REFER TO L1.31 FOR SITE GRADING LEGEND AND NOTES.

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

SITE GRADING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=10'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

STATE OF CONNECTICUT
MICHAEL A. CEGAN
REG. NO. 485
REGISTERED LANDSCAPE ARCHITECT

L1.31A

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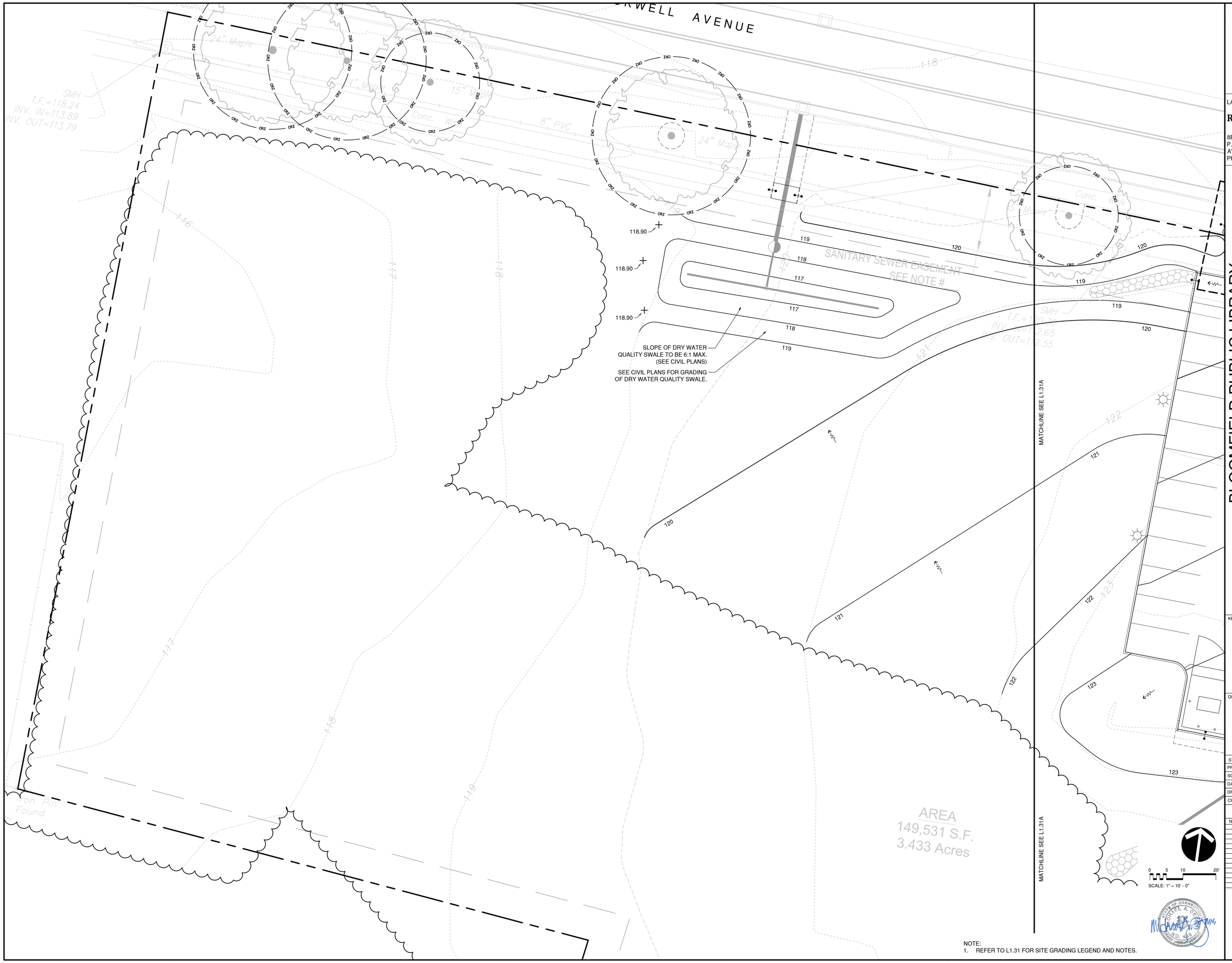

NOTE:
1. REFER TO L1.31 FOR SITE GRADING LEGEND AND NOTES.

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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

SITE GRADING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=10'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

STATE OF CONNECTICUT
CORNELL A. CRAWN
REGISTERED LANDSCAPE ARCHITECT
NO. 453

L1.31B

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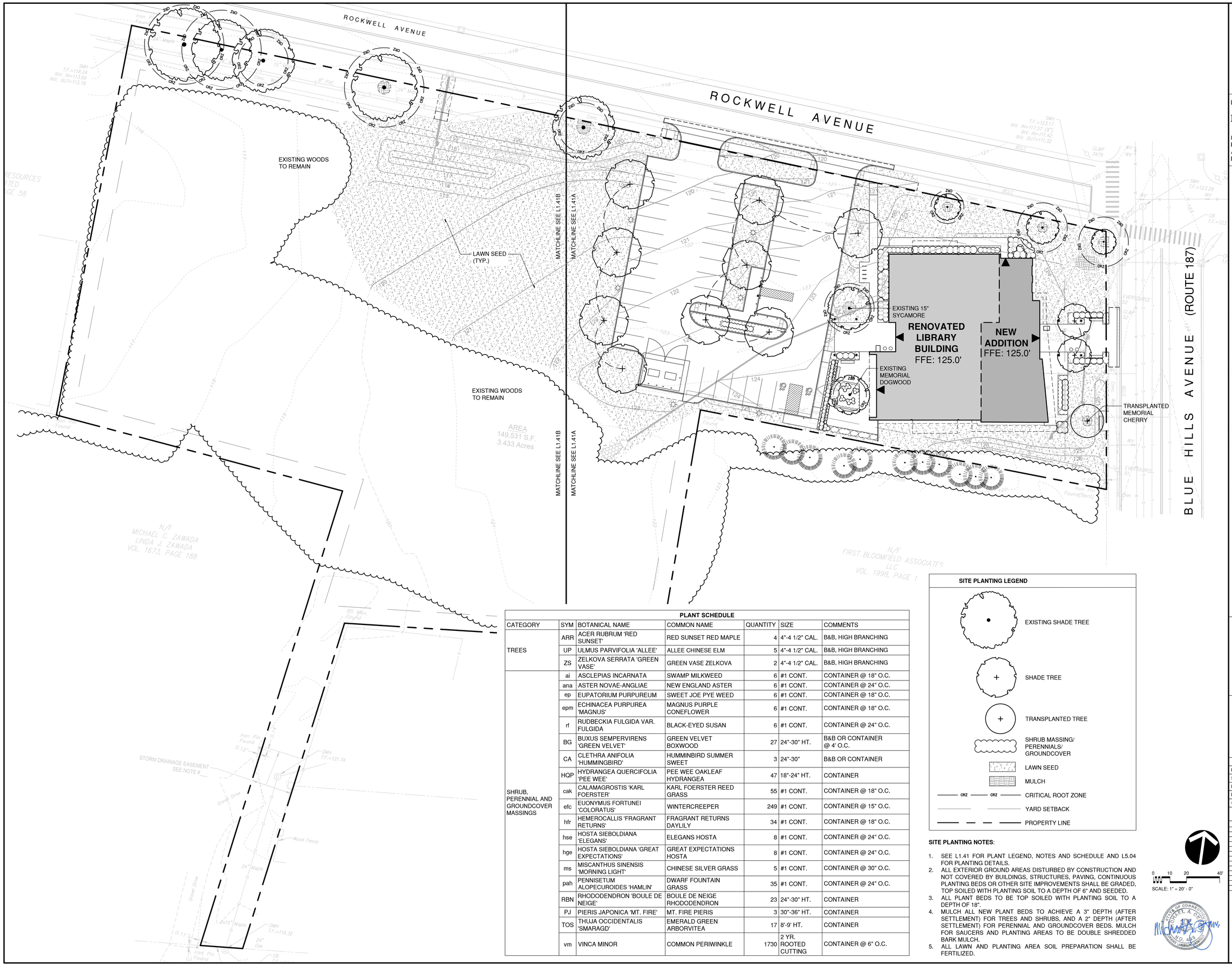

PLANT SCHEDULE						
CATEGORY	SYM	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMENTS
TREES	ARR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	4	4"-4 1/2" CAL.	B&B, HIGH BRANCHING
	UP	ULMUS PARVIFOLIA 'ALLEE'	ALLEE CHINESE ELM	5	4"-4 1/2" CAL.	B&B, HIGH BRANCHING
	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2	4"-4 1/2" CAL.	B&B, HIGH BRANCHING
SHRUB, PERENNIAL AND GROUNDCOVER MASSINGS	ai	ASCLEPIAS INCARNATA	SWAMP MILKWEED	6	#1 CONT.	CONTAINER @ 18" O.C.
	ana	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	6	#1 CONT.	CONTAINER @ 24" O.C.
	ep	EUPATORIUM PURPUREUM	SWEET JOE PYE WEED	6	#1 CONT.	CONTAINER @ 18" O.C.
	epm	ECHINACEA PURPUREA 'MAGNUS'	MAGNUS PURPLE CONEFLOWER	6	#1 CONT.	CONTAINER @ 18" O.C.
	rf	RUDBECKIA FULGIDA VAR. FULGIDA	BLACK-EYED SUSAN	6	#1 CONT.	CONTAINER @ 24" O.C.
	BG	BUXUS SEMPERVIRENS 'GREEN VELVET'	GREEN VELVET BOXWOOD	27	24"-30" HT.	B&B OR CONTAINER @ 4' O.C.
	CA	CLETHRA ANIFOLIA 'HUMMINGBIRD'	HUMMINBIRD SUMMER SWEET	3	24"-30"	B&B OR CONTAINER
	HQP	HYDRANGEA QUERCIFOLIA 'PEE WEE'	PEE WEE OAKLEAF HYDRANGEA	47	18"-24" HT.	CONTAINER
	cak	CALAMAGROSTIS 'KARL FOERSTER'	KARL FOERSTER REED GRASS	55	#1 CONT.	CONTAINER @ 18" O.C.
	efc	EUONYMUS FORTUNEI 'COLORATUS'	WINTERCREEPER	249	#1 CONT.	CONTAINER @ 15" O.C.
	hfr	HEMEROCALLIS 'FRAGRANT RETURNS'	FRAGRANT RETURNS DAYLILY	34	#1 CONT.	CONTAINER @ 18" O.C.
	hse	HOSTA SIEBOLDIANA 'ELEGANS'	ELEGANS HOSTA	8	#1 CONT.	CONTAINER @ 24" O.C.
	hge	HOSTA SIEBOLDIANA 'GREAT EXPECTATIONS'	GREAT EXPECTATIONS HOSTA	8	#1 CONT.	CONTAINER @ 24" O.C.
	ms	MISCANTHUS SINENSIS 'MORNING LIGHT'	CHINESE SILVER GRASS	5	#1 CONT.	CONTAINER @ 30" O.C.
	pah	PENNISETUM ALOPECUROIDES 'HAMLIN'	DWARF FOUNTAIN GRASS	35	#1 CONT.	CONTAINER @ 24" O.C.
	RBN	RHODODENDRON 'BOULE DE NEIGE'	BOULE DE NEIGE RHODODENDRON	23	24"-30" HT.	CONTAINER
	PJ	PIERIS JAPONICA 'MT. FIRE'	MT. FIRE PIERIS	3	30"-36" HT.	CONTAINER
	TOS	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITEA	17	8'-9' HT.	CONTAINER
	vm	VINCA MINOR	COMMON PERIWINKLE	1730	2 YR. ROOTED CUTTING	CONTAINER @ 6" O.C.

SITE PLANTING LEGEND

- EXISTING SHADE TREE
- SHADE TREE
- TRANSPLANTED TREE
- SHRUB MASSING/ PERENNIALS/ GROUNDCOVER
- LAWN SEED
- MULCH
- CRZ — CRZ — CRITICAL ROOT ZONE
- YARD SETBACK
- PROPERTY LINE

SITE PLANTING NOTES:

1. SEE L1.41 FOR PLANT LEGEND, NOTES AND SCHEDULE AND L5.04 FOR PLANTING DETAILS.
2. ALL EXTERIOR GROUND AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING, CONTINUOUS PLANTING BEDS OR OTHER SITE IMPROVEMENTS SHALL BE GRADED, TOP SOILED WITH PLANTING SOIL TO A DEPTH OF 6" AND SEEDED.
3. ALL PLANT BEDS TO BE TOP SOILED WITH PLANTING SOIL TO A DEPTH OF 18".
4. MULCH ALL NEW PLANT BEDS TO ACHIEVE A 3" DEPTH (AFTER SETTLEMENT) FOR TREES AND SHRUBS, AND A 2" DEPTH (AFTER SETTLEMENT) FOR PERENNIAL AND GROUNDCOVER BEDS. MULCH FOR SAUCERS AND PLANTING AREAS TO BE DOUBLE SHREDDED BARK MULCH.
5. ALL LAWN AND PLANTING AREA SOIL PREPARATION SHALL BE FERTILIZED.

0 10 20 40'
SCALE: 1" = 20' - 0"

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BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
OVERALL
SITE PLANTING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L1.41

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ROCKWELL AVENUE

BLUE HILLS AVENUE (ROUTE 187)

MATCHLINE SEE L1.41B

MATCHLINE SEE L1.41B

5 L5.04 BARK MULCH SURFACING (8' DIA. MULCH RING CENTERED ON TRUNK, MEET PERPENDICULAR TO EXISTING WALK)

5 L5.04 BARK MULCH SURFACING (6' DIA. MULCH RING CENTERED ON TRUNK)

5 L5.04 BARK MULCH SURFACING (6' DIA. MULCH RING CENTERED ON TRUNK, MEET PERPENDICULAR TO EXISTING WALK)

5 L5.04 BARK MULCH SURFACING (8' DIA. MULCH RING CENTERED ON TRUNK)

5 L5.04 BARK MULCH SURFACING (INSTALL WITHIN LIMITS OF EXISTING PLANT BED TO REMAIN)

5 L5.04 BARK MULCH SURFACING (6' DIA. MULCH RING CENTERED ON TRUNK)

LAWN SEED (TYP.)

EXISTING 15" SYCAMORE

EXISTING MEMORIAL DOGWOOD (RE-INSTALL MEMORIAL PLAQUE AFTER PLANTING AND MULCH SURFACING HAS BEEN INSTALLED)

TRANSPLANTED MEMORIAL CHERRY (RE-INSTALL MEMORIAL PLAQUE AFTER TRANSPLANTED TREE AND MULCH RING HAS BEEN INSTALLED)

RENOVATED LIBRARY BUILDING
FFE: 125.0'

NEW ADDITION
FFE: 125.0'

4 ARR	
34 cak	
249 efc	
5 UP	
69 vm	
3 BG	
87 vm	
7 pah	
34 hfr	
17 TOS	
3 PJ	
7 pah	
3 CA	
5 ms	
11 cak	
3 ai, 3 ana, 3 ep, 3 epm, 3 rf	
874 vm	
8 hge, 8 hse	
7 pah	
16 HQP	
11 RBN	
5 HQP	
9 RBN	
10 HQP	
3 RBN	
16 HQP	
5 cak	
14 pah	
6 BG	
5 cak	
4 BG	
221 vm	
7 BG	
129 vm	
2 ZS	
129 vm	
7 BG	
221 vm	

NOTE:
1. REFER TO L1.41 FOR SITE PLANTING LEGEND, NOTES AND SCHEDULE.

0 5 10 20'
SCALE: 1" = 10' - 0"

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BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
SITE PLANTING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=10'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L1.41A

STATE OF CONNECTICUT
DANIEL A. CEGAN
REG. NO. 461
LICENSED LANDSCAPE ARCHITECT

N/F FIRST BLOOMFIELD ASSOCIATES LLC

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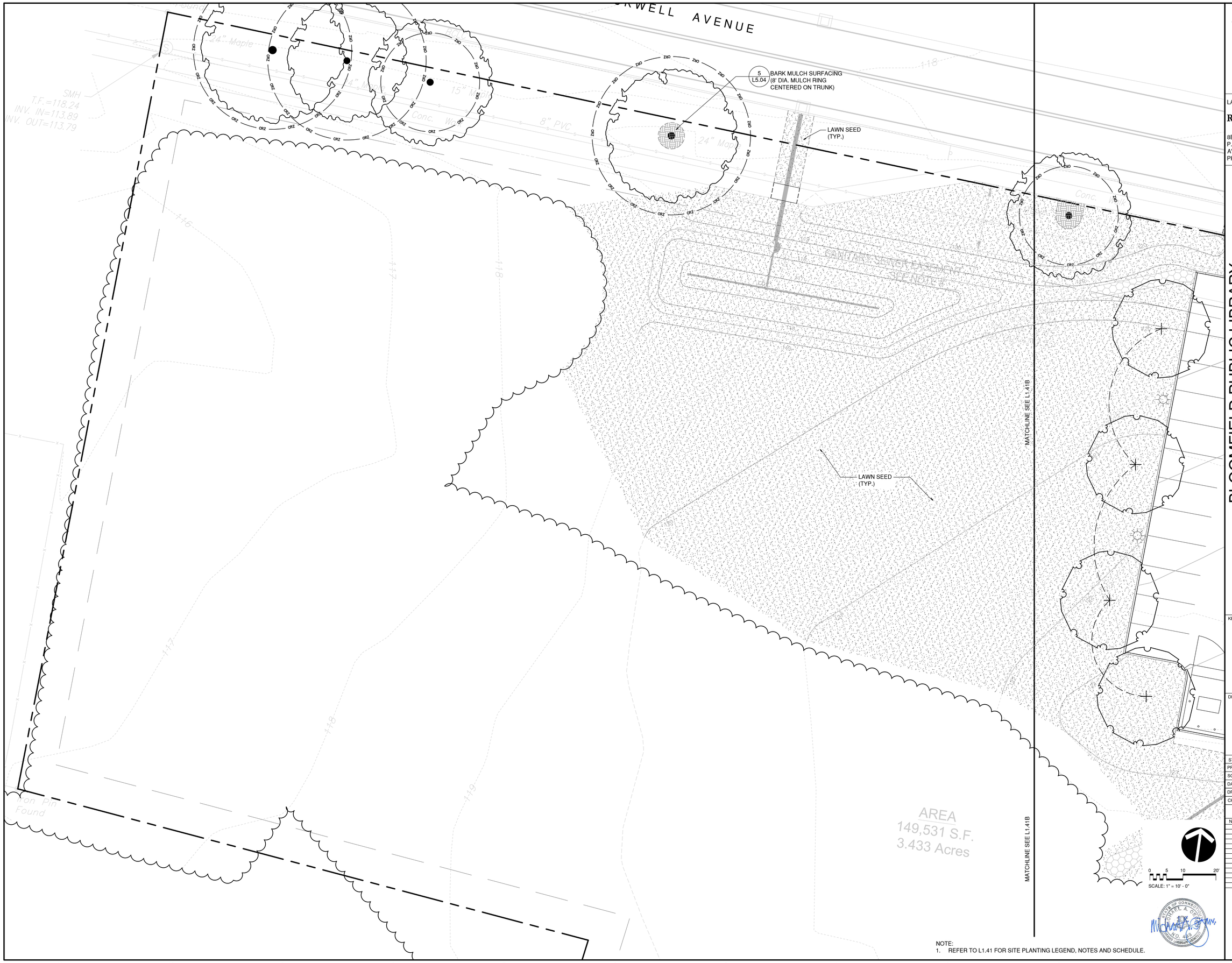

NOTE:
1. REFER TO L1.41 FOR SITE PLANTING LEGEND, NOTES AND SCHEDULE.

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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

SITE PLANTING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=10'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

STATE OF CONNECTICUT
MICHAEL A. CRAM
REG. NO. 493
REGISTERED LANDSCAPE ARCHITECT

L1.41B

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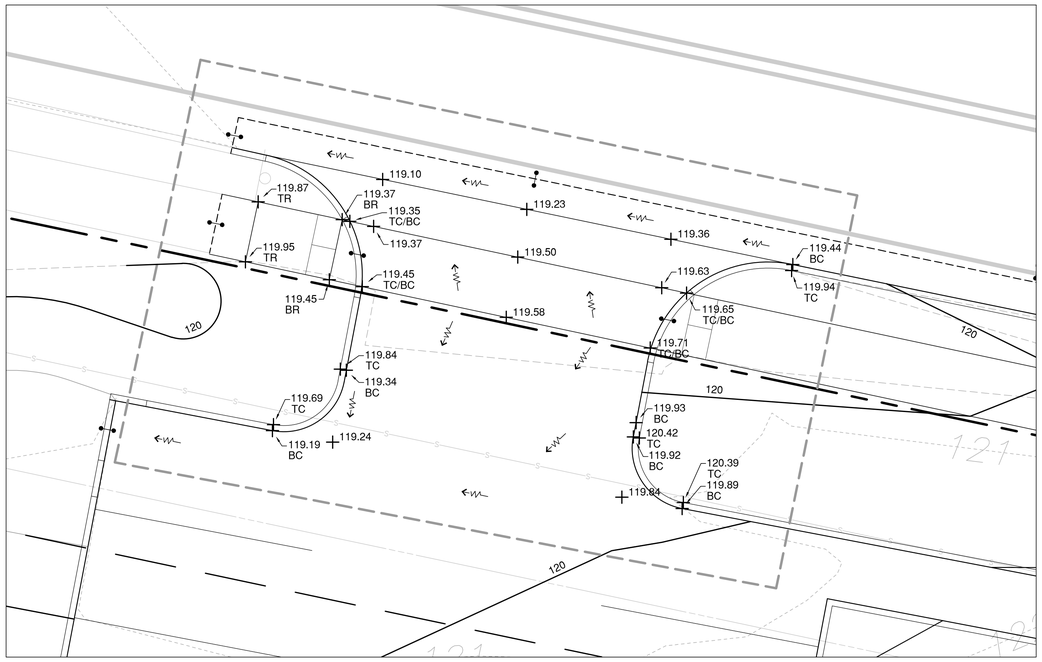
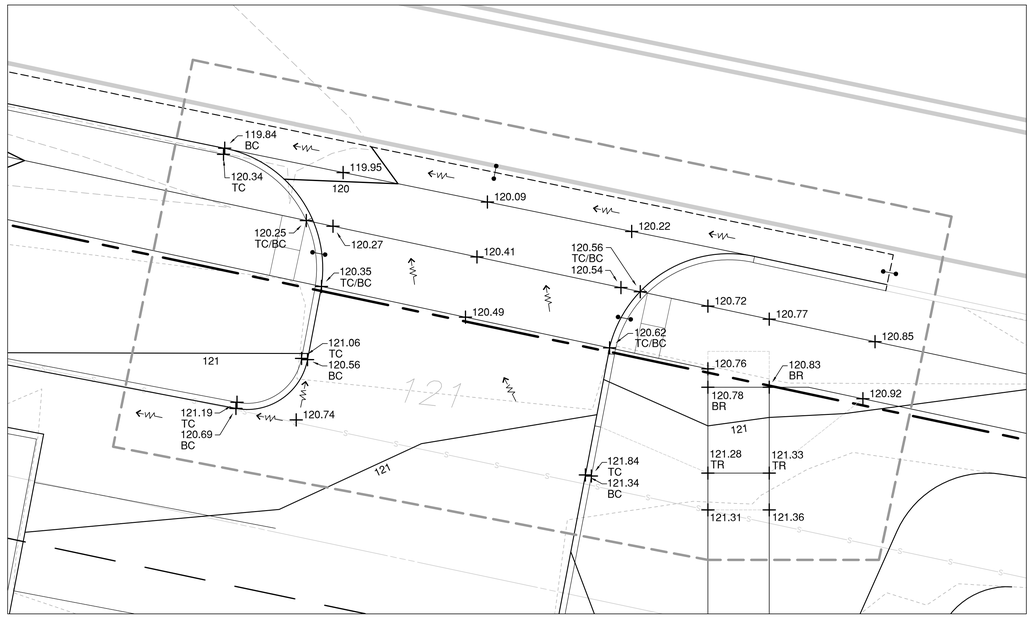
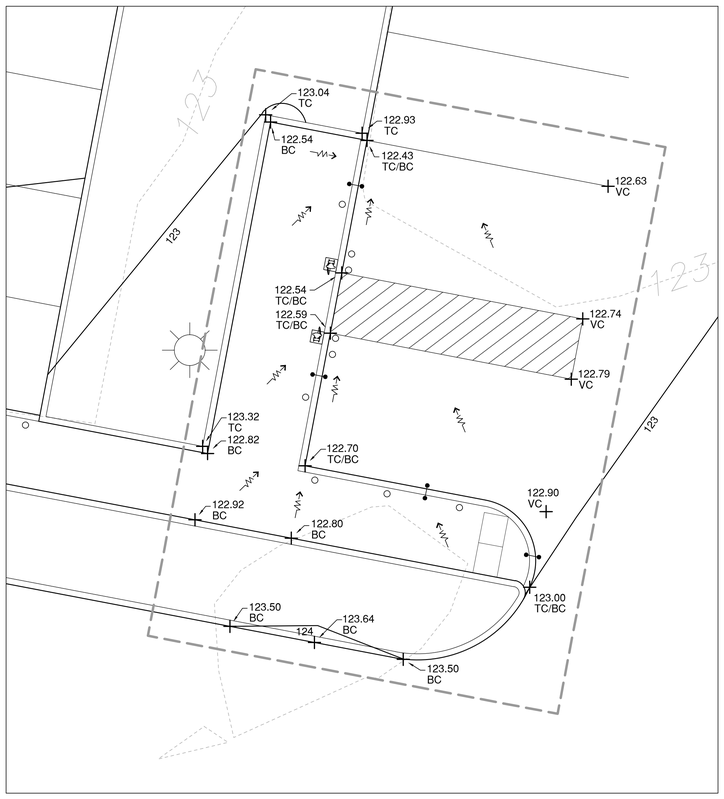


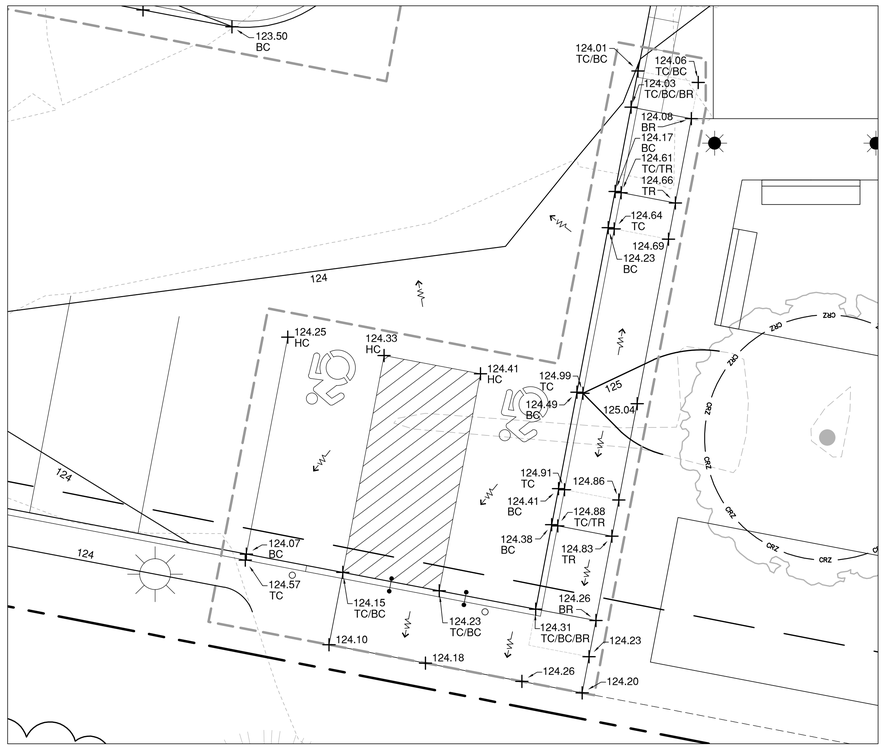
4 WEST ENTRY DRIVE
SCALE: 1"=5'



2 EAST ENTRY DRIVE
SCALE: 1"=5'



3 VEHICULAR CHARGING STATION GRADING
SCALE: 1"=5'



1 ACCESSIBLE PARKING
SCALE: 1"=5'

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PROJECT

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KEY PLAN

DRAWING TITLE
SITE GRADING ENLARGEMENTS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=5'
DATE:	02/06/2023
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

STATE OF CONNECTICUT · CORNELL A. CEGAN · REGISTERED LANDSCAPE ARCHITECT · NO. 465

L4.01

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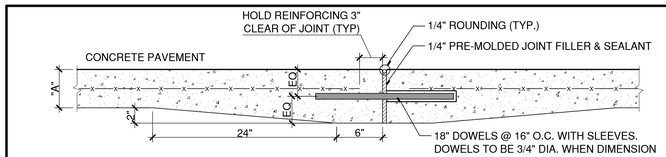
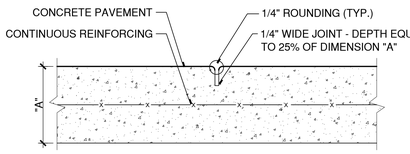


A EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



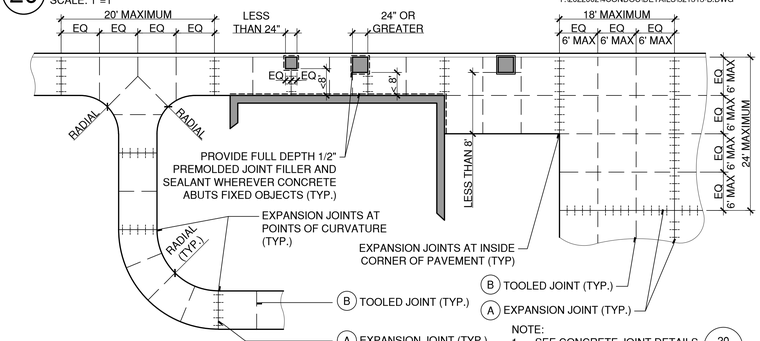
B TOOLED JOINT
Scale: 3" = 1'-0"

NOTES:
1. INSTALL TOOLED JOINTS AT SPACING EQUAL TO THE WALK WIDTH, UP TO A MAXIMUM OF 6 FEET, UNLESS DIMENSIONED OTHERWISE.
2. INSTALL EXPANSION JOINTS WITHIN THE TOOLED JOINT SPACING MODULE UP TO A MAXIMUM SPACING OF 20 FEET.
3. TYPICAL SPACING :

WALK WIDTH	EXPANSION JOINT SPACING
4'	20' (5 PANELS @ 4')
5'	20' (4 PANELS @ 5')
6'	18' (3 PANELS @ 6')

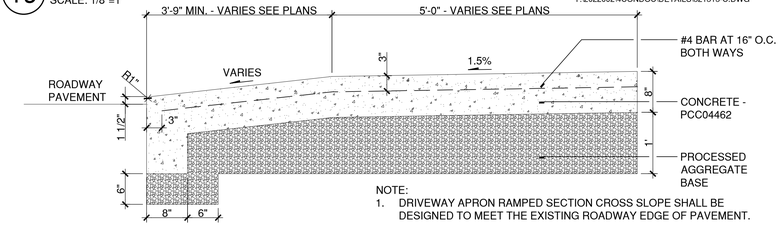
4. INSTALL FULL DEPTH 1/2" PREMOLDED JOINT FILLER AND SEALANT WHEREVER PAVEMENT ABUTS FIXED OBJECTS.
5. SEE TYPICAL JOINT PLACEMENT DETAIL (19 / L5.01)

20 CONCRETE JOINT DETAILS
SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321313-B.DWG



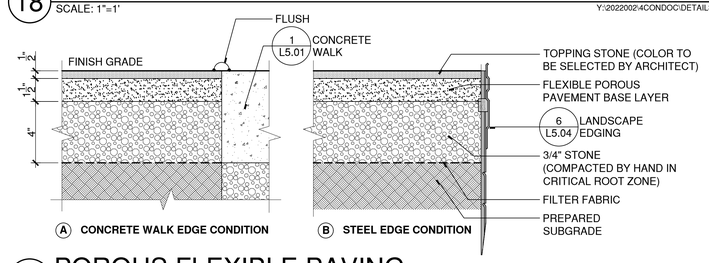
NOTE:
1. SEE CONCRETE JOINT DETAILS FOR JOINT A & B SECTIONS (20 / L5.01)

19 TYPICAL JOINT PLACEMENT IN CONCRETE
SCALE: 1/8"=1' Y:\2022002\4CONDOC\DETAILS\321313-C.DWG

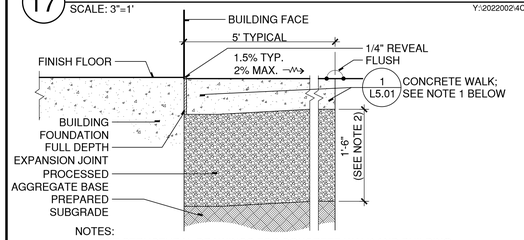


NOTE:
1. DRIVEWAY APRON RAMPED SECTION CROSS SLOPE SHALL BE DESIGNED TO MEET THE EXISTING ROADWAY EDGE OF PAVEMENT.

18 DRIVE APRON
SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\Drive_Apron.DWG

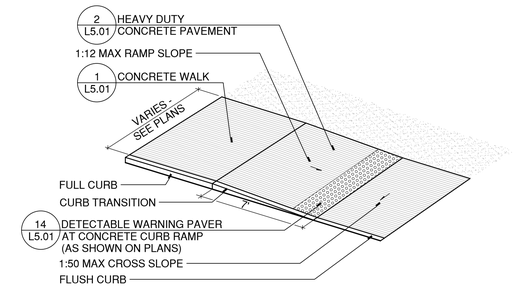


17 POROUS FLEXIBLE PAVING
SCALE: 3"=1' Y:\2022002\4CONDOC\DETAILS\FLEXI-PAVE TYPE 2.DWG



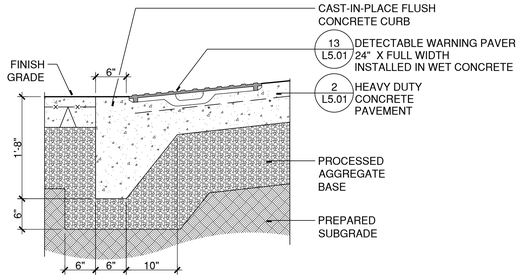
NOTES:
1. SEE STRUCTURAL DRAWINGS FOR CONCRETE WALK AND BUILDING FOUNDATION REINFORCING.
2. FOR CONCRETE WALK CONTINUOUS TO THE BUILDING THE PROCESSED AGGREGATE BASE SHALL EXTEND TO 18" BELOW GRADE.

16 ACCESSIBLE ENTRANCE
SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\018916-H.DWG

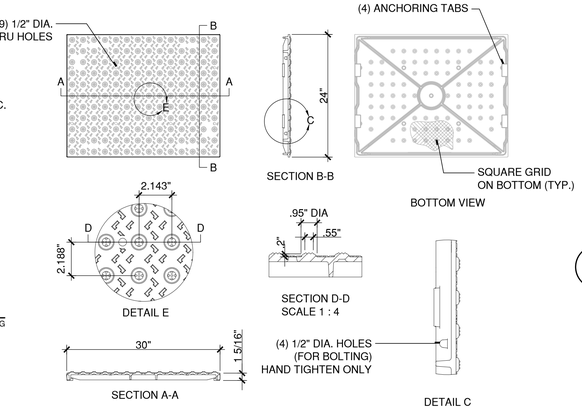


NOTES:
1. HEAVY DUTY CONCRETE PAVEMENT TO BE USED FOR ALL CURB RAMPS.

15 FULL WIDTH CURB RAMP
SCALE: N.T.S. Y:\2022002\4CONDOC\DETAILS\018916-Ca.DWG

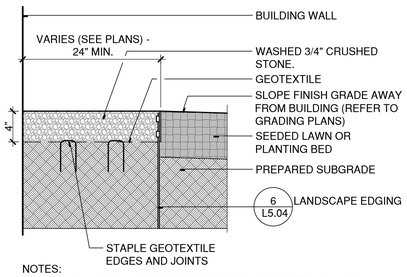


DETECTABLE WARNING PAVER AT CONCRETE CURB RAMP
14 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321726-B.DWG



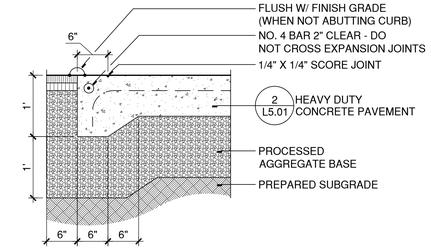
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.

13 DETECTABLE WARNING PAVER
SCALE: N.T.S. Y:\2022002\4CONCDOC\DETAILS\DETECTABLE WARNING PAVER.DWG

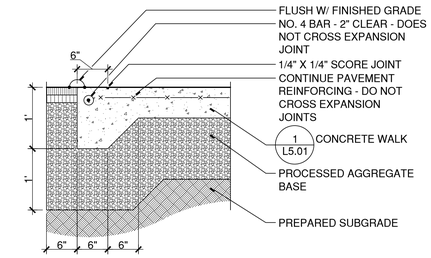


NOTES:
1. BACKFILL BOTH SIDES OF METAL EDGING SIMULTANEOUSLY.

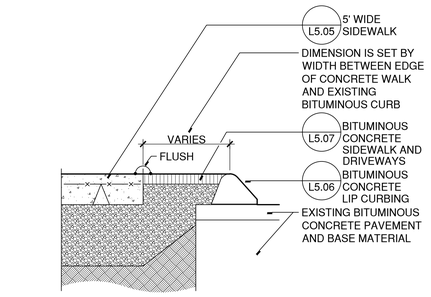
12 MAINTENANCE STRIP
SCALE: N.T.S. Y:\2022002\4CONDOC\DETAILS\321500-C.DWG



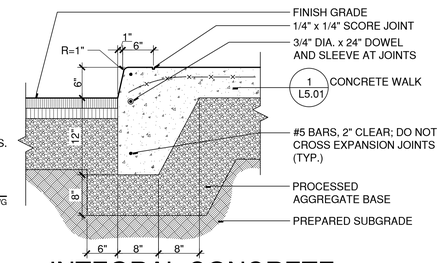
THICKENED EDGE OF HEAVY DUTY PAVEMENT
11 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321313-F.DWG



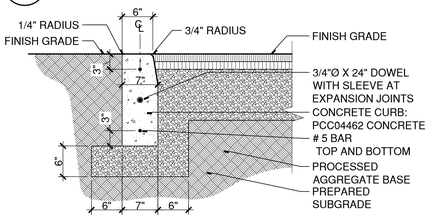
THICKENED EDGE OF CONCRETE WALK
10 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321313-D.DWG



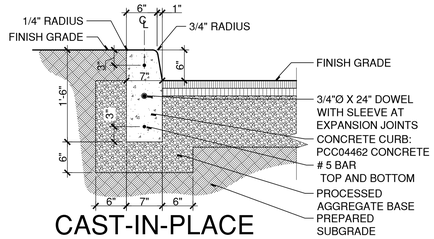
CONCRETE WALK AT BITUMINOUS WALK
9 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321313-A.DWG



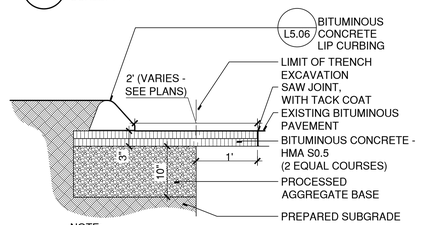
INTEGRAL CONCRETE WALK / CURB
8 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321613-B.DWG



FLUSH CAST-IN-PLACE CONCRETE CURB
7 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321613-A2.DWG

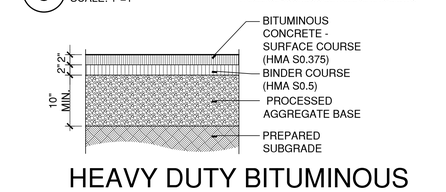


CAST-IN-PLACE CONCRETE CURB
6 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321613-A1.DWG

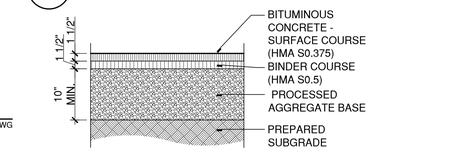


NOTE:
1. PAVEMENT REPLACEMENT SHALL BE 24" WIDE OR AS SHOWN ON PLANS.

BITUMINOUS PAVEMENT REPLACEMENT
5 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321216-B.DWG



HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT
4 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321216-C.DWG



BITUMINOUS CONCRETE PAVEMENT
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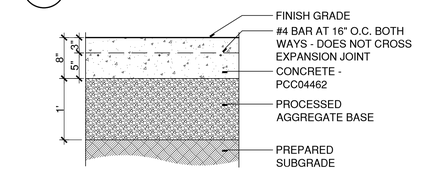
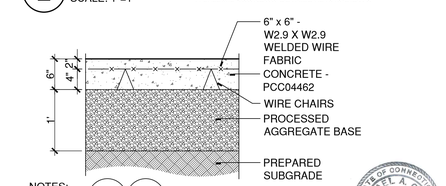


NOTES:
1. SEE (19 / L5.01) (20 / L5.01) FOR JOINT DETAILS AND LOCATIONS.

HEAVY DUTY CONCRETE PAVEMENT
2 SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321313-E.DWG



NOTES:
1. SEE (19 / L5.01) (20 / L5.01) FOR JOINT DETAILS AND LOCATIONS.

1 CONCRETE WALK
SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\321313-A.DWG

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PHONE: 860-678-0669

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITIONS & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	02/06/2023
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L5.01

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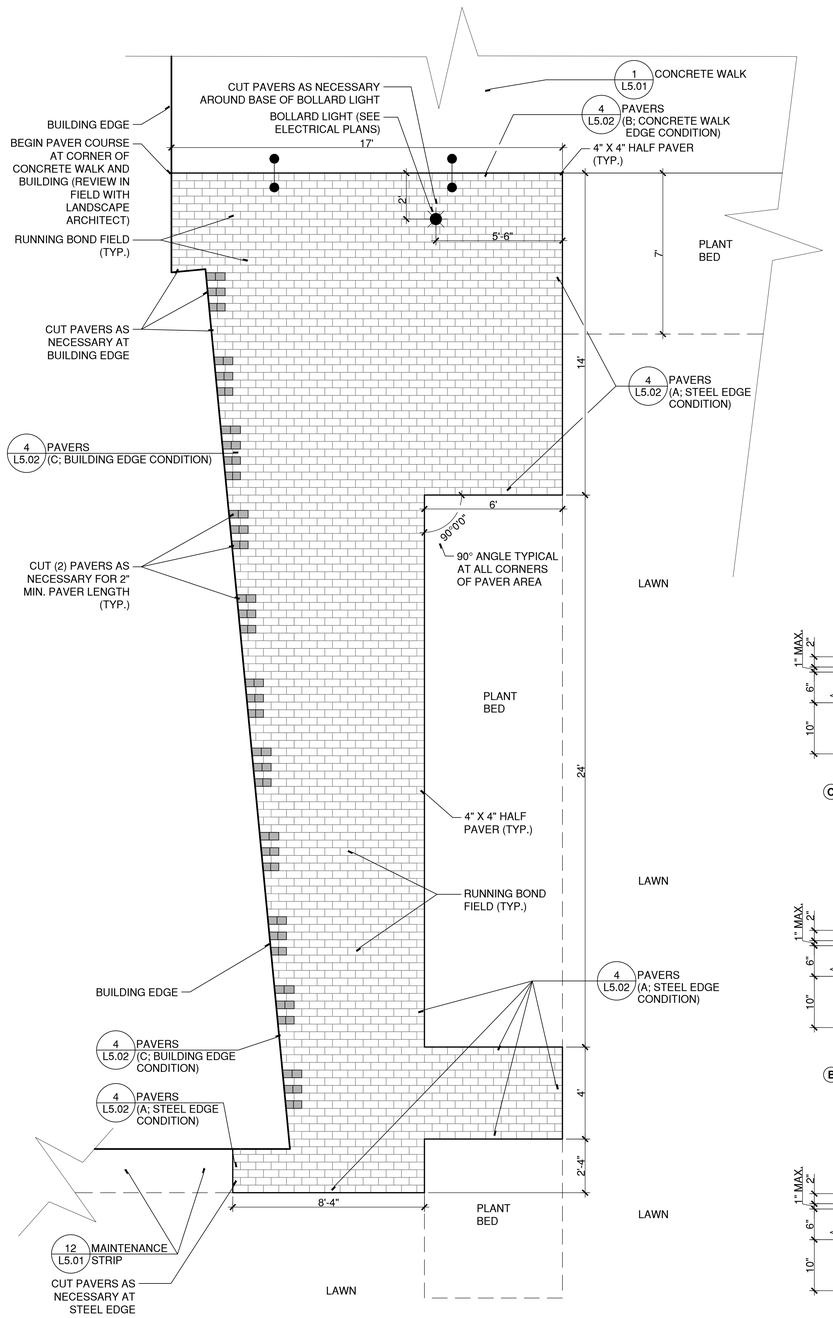
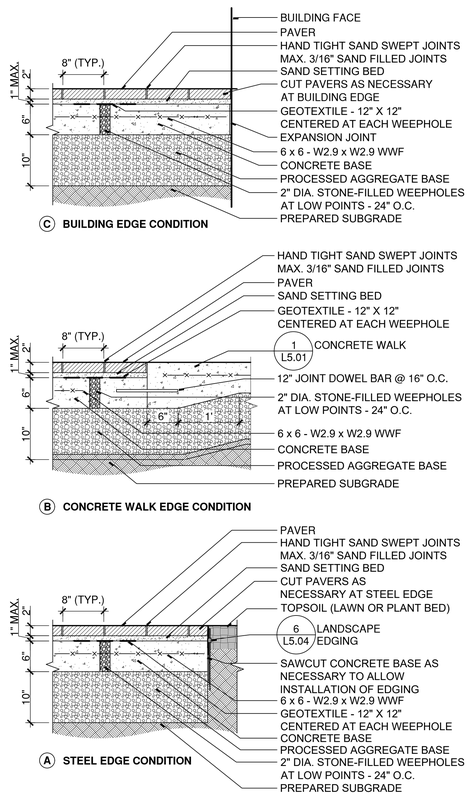


NOTES:
1. REVIEW PAVER LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

5 PAVER LAYOUT
SCALE: 3/8"=1'
Y:\2022002\4CONDOC\DETAILS\Paver Layout.DWG



4 PAVERS
SCALE: N.T.S.
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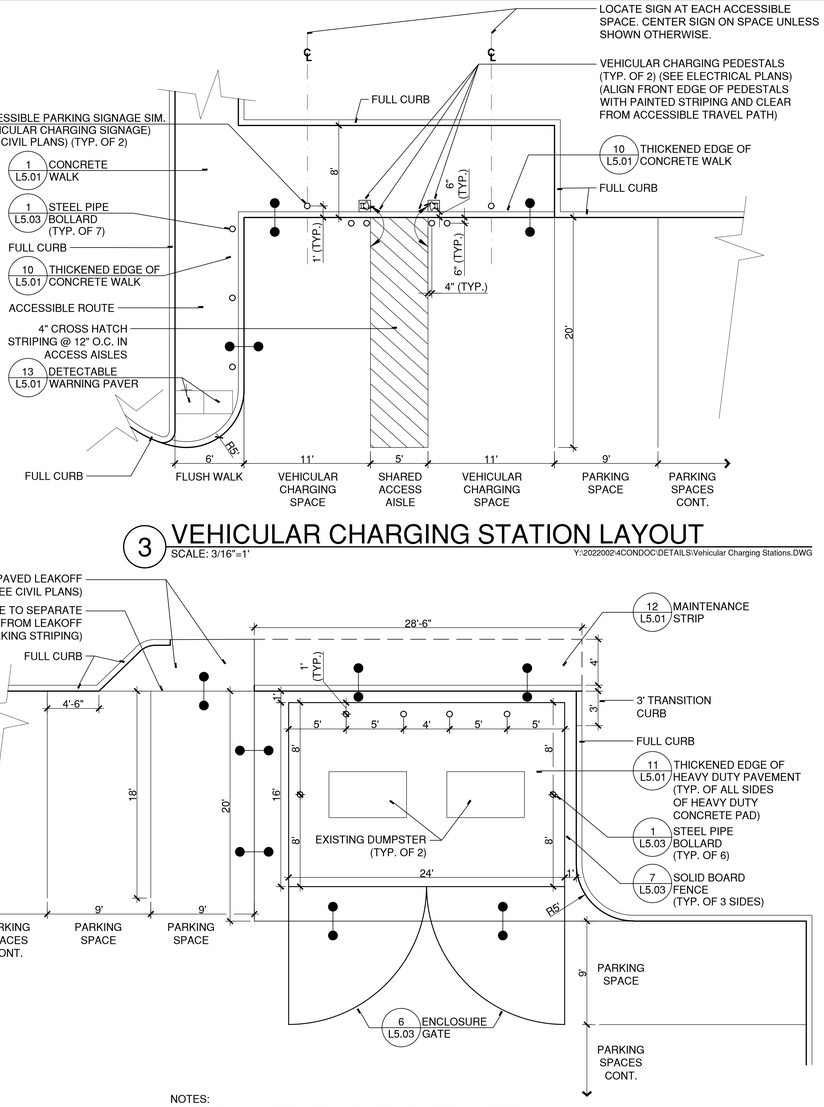
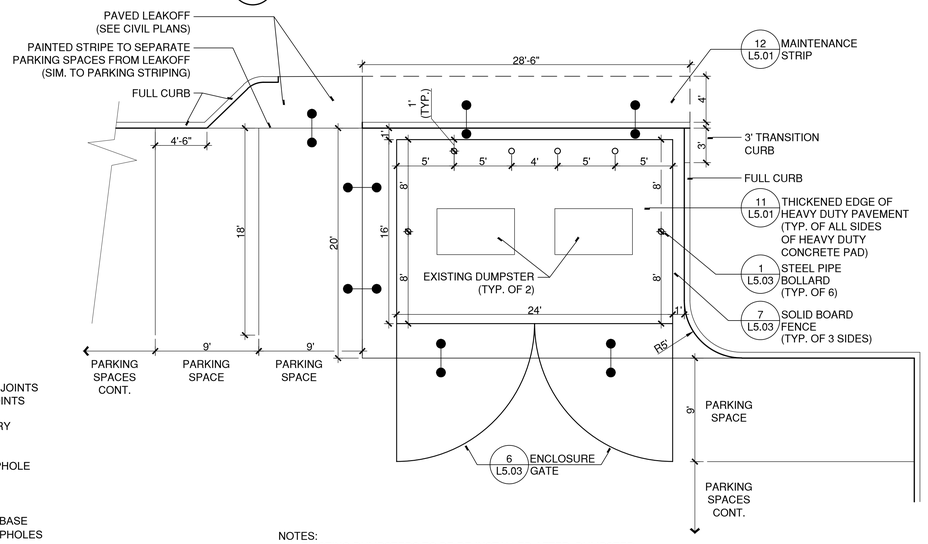
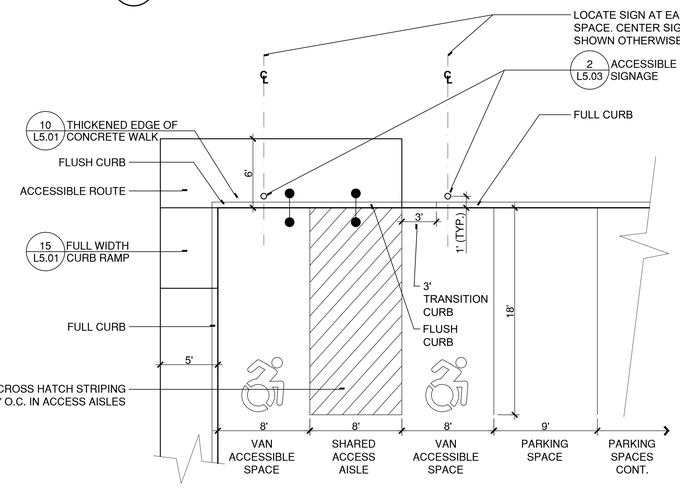


3 VEHICULAR CHARGING STATION LAYOUT
SCALE: 3/16"=1'
Y:\2022002\4CONDOC\DETAILS\Vehicular Charging Stations.DWG



NOTES:
1. EXISTING DUMPSTERS TO BE RE-INSTALLED AFTER DUMPSTER ENCLOSURE CONSTRUCTION HAS COMPLETED.

2 DUMPSTER ENCLOSURE
SCALE: 3/16"=1'
Y:\2022002\4CONDOC\DETAILS\Dumpster Enclosure Plan.DWG



NOTES:
1. PITCH PAVEMENT NO MORE THAN 2% SLOPE IN ANY DIRECTION.
2. COLOR OF STRIPING SHALL BE WHITE (REFER TO CIVIL PLANS).

1 ACCESSIBLE PARKING SPACES
SCALE: 3/16"=1'
Y:\2022002\4CONDOC\DETAILS\Accessible Spaces.DWG

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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	02/06/2023
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L5.02

STATE OF CONNECTION MICHAEL A. CEGAN NO. 483 REGISTERED LANDSCAPE ARCHITECT

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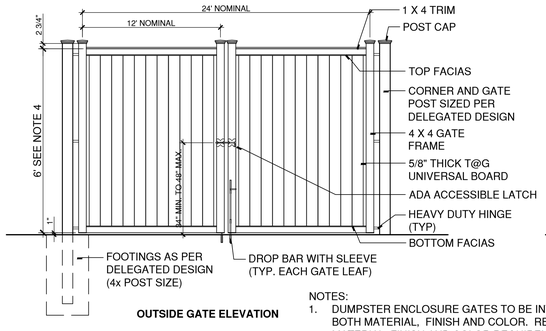
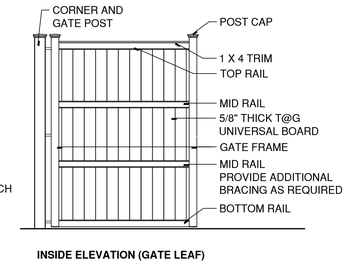
SOLID BOARD FENCE NOTES:

1. REFER TO SPECIFICATIONS FOR SOLID CELLULAR PVC FENCE AND GATE MATERIAL, FINISH AND COLOR REQUIREMENTS.
   - 1.1. ALL FASTENERS TO BE STAINLESS STEEL OR COMPOSITE TYPE.
   - 1.2. PICKETS/BOARDS - SMOOTH FINISH, SQUARE EDGE MATERIAL.
   - 1.3. FACIAS - SMOOTH FINISH, SQUARE EDGE MATERIAL.
   - 1.4. SECTION CAP - SMOOTH FINISH MOLDED TO THE DIMENSIONS SHOWN.
   - 1.5. RAILS - SMOOTH FINISH, MOLDED TO THE DIMENSIONS SHOWN.
   - 1.6. POSTS - SMOOTH FINISH.
2. FINAL HEIGHT OF DUMPSTER ENCLOSURE SHALL BE COORDINATED WITH THE HEIGHT OF OWNER PROVIDED DUMPSTERS TO PROVIDE FULL SCREENING.



OUTSIDE GATE ELEVATION



INSIDE ELEVATION (GATE LEAF)

NOTES:

1. DUMPSTER ENCLOSURE GATES TO BE INTERNALLY-REINFORCED SOLID CELLULAR PVC LUMBER TO MATCH ADJACENT SOLID BOARD FENCE IN BOTH MATERIAL, FINISH AND COLOR. REFER TO DETAIL 7/L5.03 FOR FENCE DESIGN AND MATERIALS. REFER TO SPECIFICATIONS FOR MATERIAL, FINISH AND COLOR REQUIREMENTS.
2. GATE TO BE DELEGATED DESIGN. SUBMIT SHOP DRAWINGS FOR APPROVAL. GATE POST TO BE ALUMINUM OR STEEL REINFORCED.
3. LATCH SHALL COMPLY WITH ADA REQUIREMENTS AND SHALL HAVE A SHAPE EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. PROVIDE PROVISIONS FOR PADLOCK.
4. FINAL HEIGHT OF ENCLOSURE GATE SHALL MATCH ADJACENT SOLID BOARD FENCE HEIGHT AT DUMPSTER ENCLOSURE.

6 ENCLOSURE GATE

SCALE: N.T.S.

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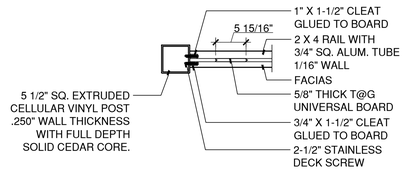
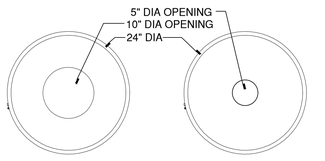


SECTION B
SCALE: 1"=1'

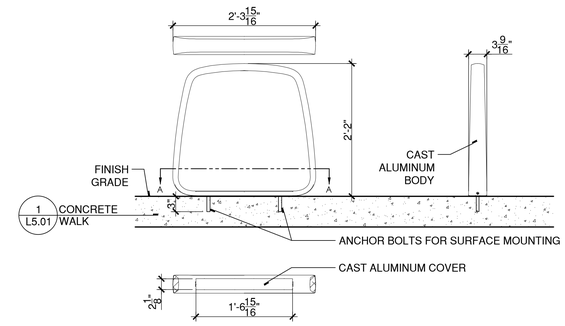


TRASH RECEPTACLE TOP VIEW

RECYCLING RECEPTACLE TOP VIEW

NOTES:

1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ALL TRASH AND RECYCLING RECEPTACLES TO BE SURFACE MOUNTED WITH STAINLESS STEEL HARDWARE
3. SIZE: 40 GALLON
4. MATERIAL: ALUMINUM WITH POLYESTER POWDER COAT



SECTION A-A

3 BICYCLE RACK

SCALE: N.T.S.

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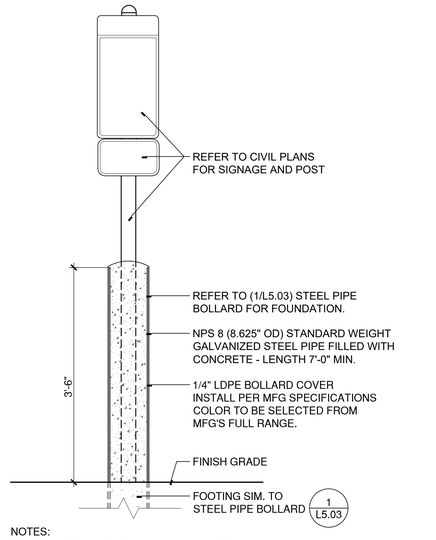

NOTES:

1. ALL STEEL PIPE TO HAVE GALVANIZED FINISH.
2. BOLLARD TO BE FITTED WITH 1/4" LDPE COVER INSTALLED AS PER MFG SPECIFICATIONS.
3. COLOR TO BE SELECTED FROM MFG'S FULL RANGE.

2 ACCESSIBLE PARKING SIGNAGE

SCALE: N.T.S.

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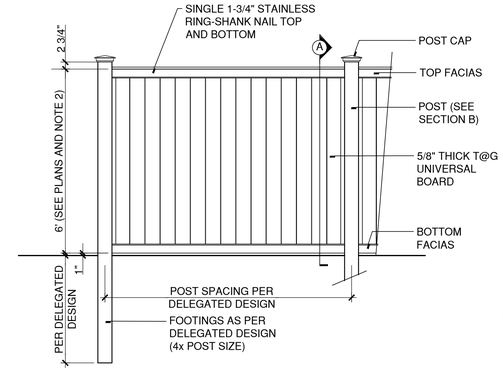
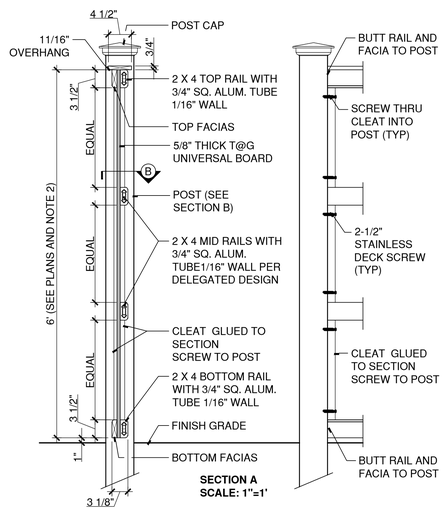


ELEVATION



SECTION A
SCALE: 1"=1'

7 SOLID BOARD FENCE

SCALE: N.T.S.

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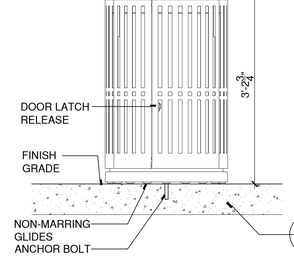

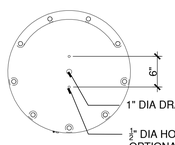

BOTTOM VIEW

5 TRASH/RECYCLING RECEPTACLES

SCALE: N.T.S.

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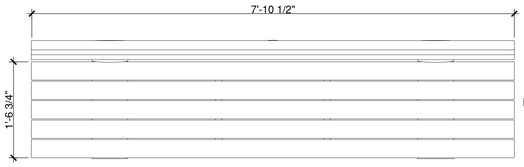
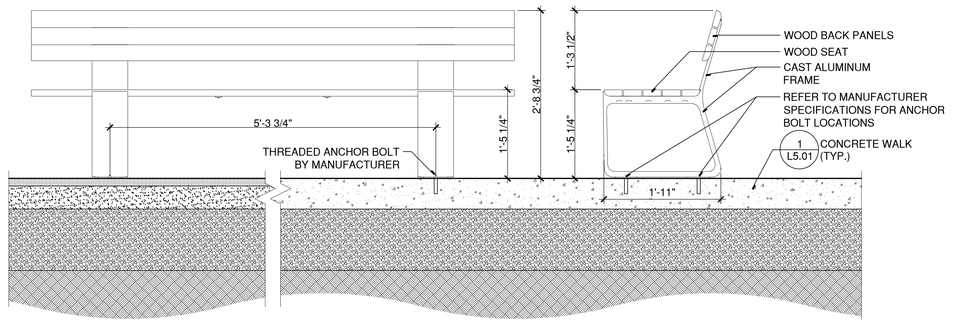


NOTES:

1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. STYLE: STRAIGHT BACKED, NOMIAL 24 x 33 x 95 FOR EXTERIOR USE.
3. MOUNTING: SURFACE MOUNT TO BE COORDINATED WITH PAVEMENT TYPE AND MANUFACTURERS RECOMMENDATIONS.



A POROUS FLEXIBLE PAVING CONDITION (FREE-STANDING)

B CONCRETE WALK CONDITION (SURFACE MOUNTED)

4 BENCH

SCALE: 1"=1'

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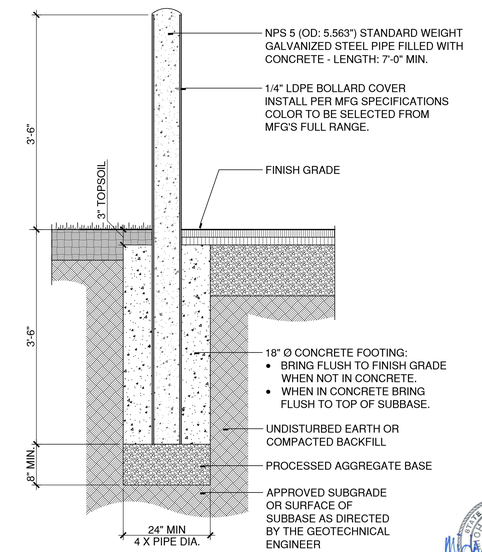

1 STEEL PIPE BOLLARD

SCALE: 1"=1'

Y:\2022003\4CONDOC\DETAILS\129300-B.DWG

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PROJECT

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KEY PLAN

DRAWING TITLE

SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	02/06/2023
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

STATE OF CONNECTICUT — DANIEL A. GERVAIS — REG. NO. 460 — REGISTERED LANDSCAPE ARCHITECT

L5.03

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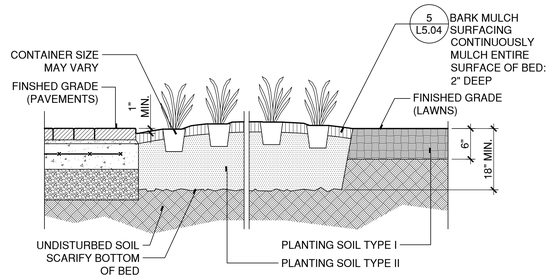
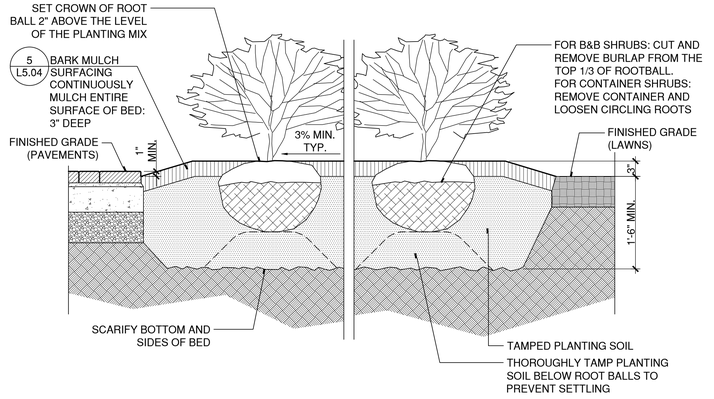


NOTES:
1. SET CROWN OF ROOT BALL LEVEL WITH FINISH GRADE.
2. MULCH ENTIRE AREA OF GROUNDCOVER, PERENNIALS OR ANNUALS.
3. MULCH CAREFULLY AROUND EACH PLANT. DO NOT COVER CROWNS OF PLANTS WITH MULCH.

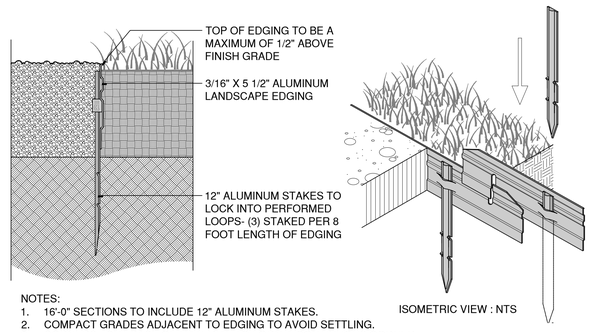
3 GROUNDCOVERS / PERENNIALS CONTINUOUS PLANTING BED

SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\329300-C.DWG



2 CONTINUOUS PLANTING BED FOR SHRUBS

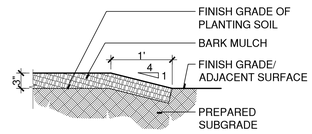
SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\329300-B.DWG



NOTES:
1. 16'-0" SECTIONS TO INCLUDE 12" ALUMINUM STAKES.
2. COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING.
3. CORNERS - CUT BASE OF MATERIAL TO FORM A CONTINUOUS CORNER.

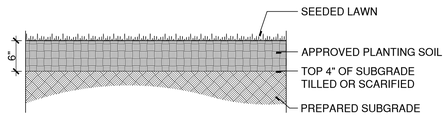
6 LANDSCAPE EDGING

SCALE: 3"=1' Y:\2022002\4CONDOC\DETAILS\055000-A.DWG



5 BARK MULCH SURFACING

SCALE: 1"=1' Y:\2022002\4CONDOC\DETAILS\329400-A.DWG



4 SEEDED LAWN

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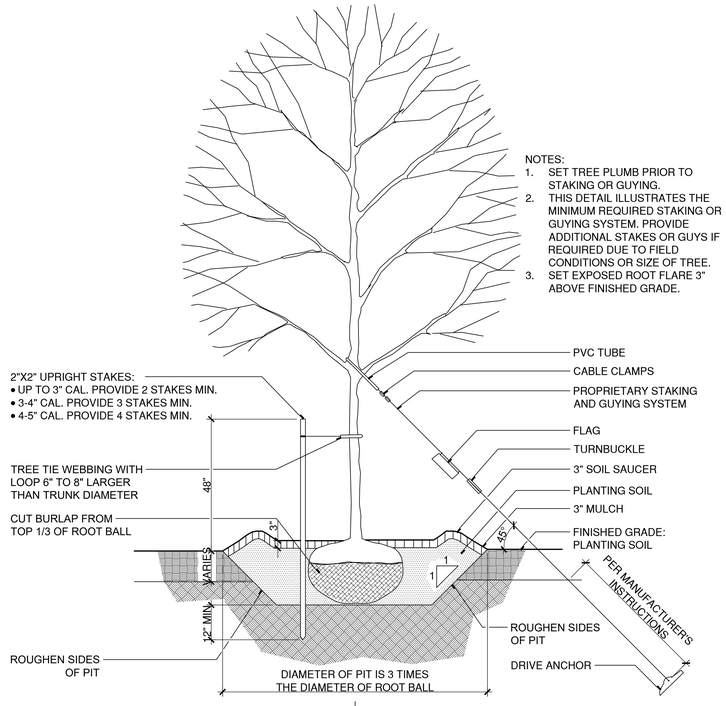

1 TREE PLANTING WITH TRUNK STABILIZATION

SCALE: 1/2"=1' Y:\2022002\4CONDOC\DETAILS\329300-A.DWG

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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	02/06/2023
DRAWN BY:	JP/RM
CHECKED BY:	MC

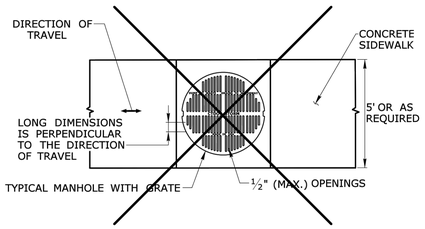
ISSUE DATES

NO.	DATE	PURPOSE

L5.04

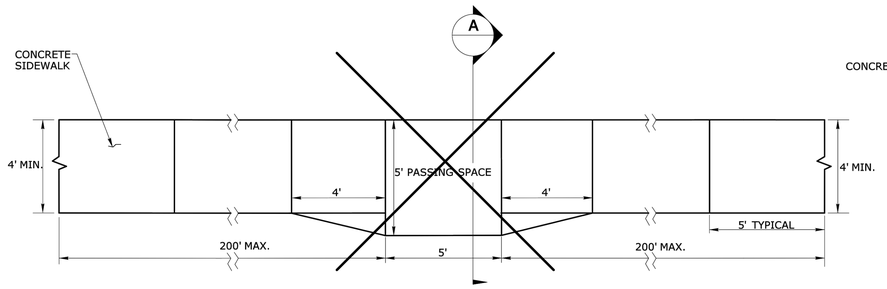
STATE OF CONNECTICUT
MICHAEL A. CEGAN
REG. NO. 465
REGISTERED LANDSCAPE ARCHITECT

Y:\2022002\4CONDOC\Details\20220201_504.dwg 02/13/2023 7:35:15 PM jperacchio



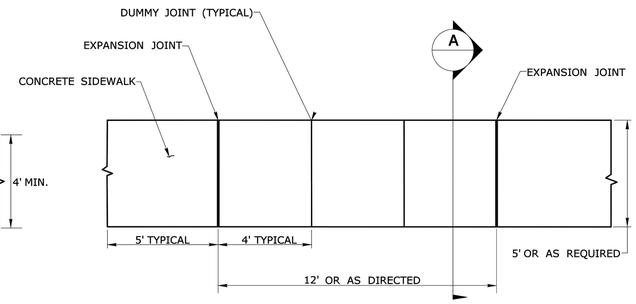
PEDESTRIAN ACCESS ROUTE OVER A MANHOLE WITH GRATE

1. HORIZONTAL OPENINGS IN GRATES AND JOINTS MUST NOT BE MORE THAN ½ INCH
2. ELONGATED OPENINGS IN GRATES MUST BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL



5' PASSING SPACE FOR 4' WIDE SIDEWALK PLAN

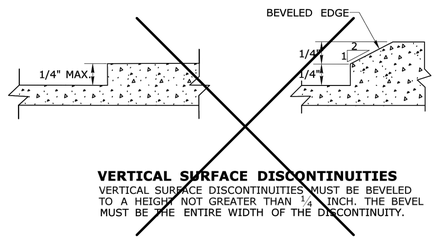
PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200' MAXIMUM FOR SIDEWALKS LESS THAN 5' IN WIDTH



5' WIDE SIDEWALK PLAN

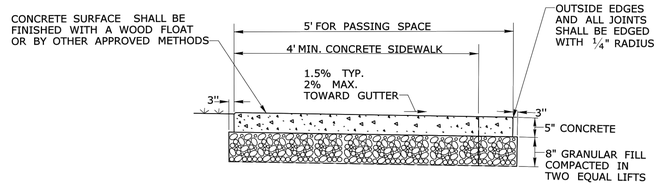
GENERAL NOTES:

1. SEE CONCRETE SIDEWALK RAMPS GUIDE SHEETS FOR PEDESTRIAN RAMP TYPES.
2. ALL CURBING SHALL BE INSTALLED AS EITHER PRECAST OR CAST IN PLACE AS DIRECTED.



VERTICAL SURFACE DISCONTINUITIES

VERTICAL SURFACE DISCONTINUITIES MUST BE BEVELED TO A HEIGHT NOT GREATER THAN ¼ INCH. THE BEVEL MUST BE THE ENTIRE WIDTH OF THE DISCONTINUITY.



5' PASSING SPACE FOR 4' WIDE SIDEWALK
SECTION A

DESIGNER/DRAFTER:	CHECKED BY:	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: ####
PROJECT DESCRIPTION: ####
TOWN(S): ####
DRAWING TITLE: CONCRETE SIDEWALKS AND RAMPS

DRAWING NO.: ####
SHEET NO.

LASTED SAVED BY: RichardEH **FILE NAME:** W:\CT_CONNECT_DDE\CT_Configuration\Organization\Cell\CTDOT_Borders_Contract.cel
PLOTTED DATE: 10/15/2021

NOTE:

1. CONNDOT DETAILS INCLUDED FOR WORK TO BE DONE WITHIN STATE RIGHT OF WAY.
2. REFER TO MOST RECENT CTDOT STANDARD DETAILS AT TIME OF CONSTRUCTION.

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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

CONNDOT DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	02/06/2023
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L5.05

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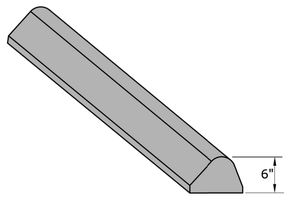
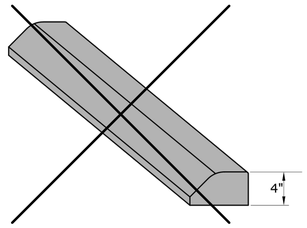
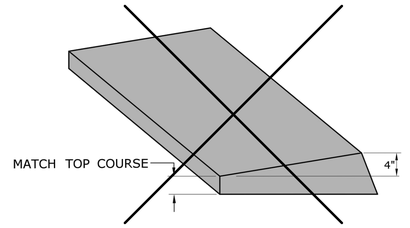


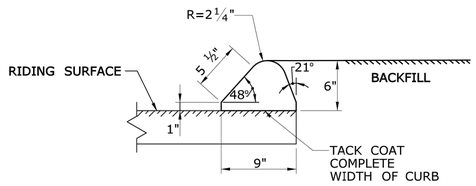
BITUMINOUS CONCRETE LIP CURBING (6" HIGH)



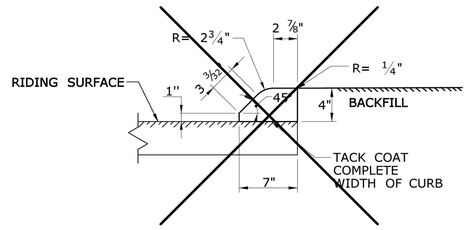
BITUMINOUS CONCRETE PARK CURBING (4" HIGH)



BITUMINOUS CONCRETE BERM CURBING (4" HIGH)



SECTION



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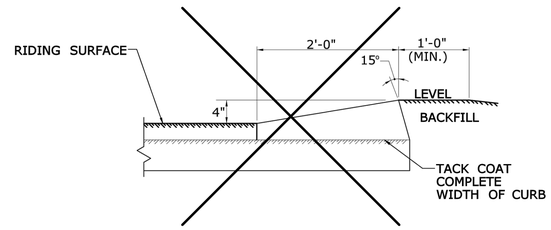

SECTION

	NOT TO SCALE ####	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Leo Fontaine, P.E. 2020.07.08 09:34:54-04'00'	APPROVED BY: James Fallon, P.E.	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: BITUMINOUS CONCRETE CURBING	STANDARD SHEET NO.: HW-815_01

PLOTTED DATE: 7/7/2020

NOTE:

1. CONNDOT DETAILS INCLUDED FOR WORK TO BE DONE WITHIN STATE RIGHT OF WAY.
2. REFER TO MOST RECENT CTDOT STANDARD DETAILS AT TIME OF CONSTRUCTION.

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE
CONNDOT DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	02/06/2023
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L5.06

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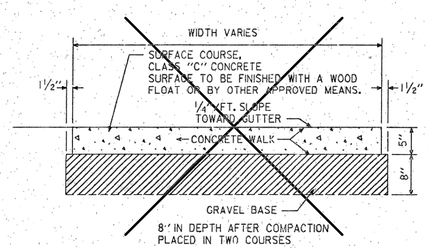
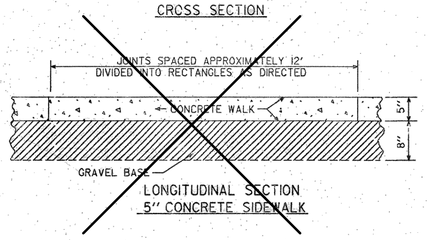
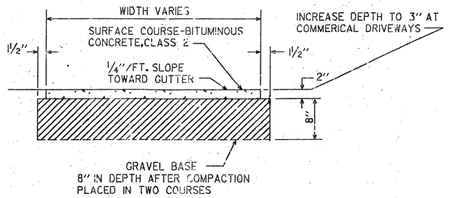
FAHWA REGION NO.	STATE	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
I	CONN.						



CROSS SECTION



LONGITUDINAL SECTION
5" CONCRETE SIDEWALK



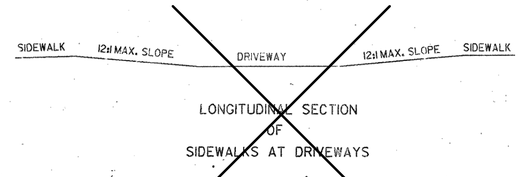
CROSS SECTION
BITUMINOUS CONCRETE
SIDEWALK AND DRIVEWAYS

NOTES:

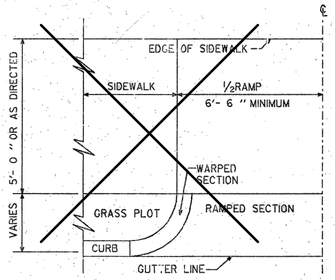
DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' WIDE, EXCLUDING CURBING.

BITUMINOUS CONCRETE LIP CURBING AND BITUMINOUS CONCRETE INSTALLED AS PART OF THE DRIVEWAY BEYOND THE PAYMENT LIMIT SHALL BE INCLUDED IN THE UNIT COST FOR " BITUMINOUS CONCRETE DRIVEWAY."

SIDEWALK RAMPS SHALL BE A MINIMUM OF 36 INCHES TO 40 INCHES MAXIMUM WITH A MAXIMUM SLOPE OF 12:1 THERE SHALL BE NO LIP AT THE GUTTER LINE.

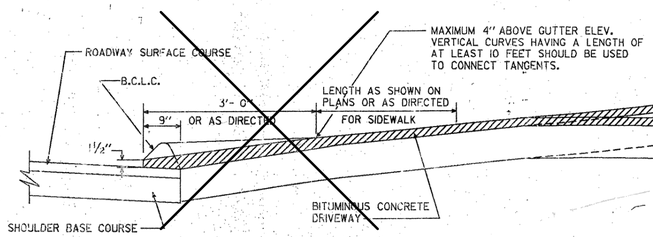


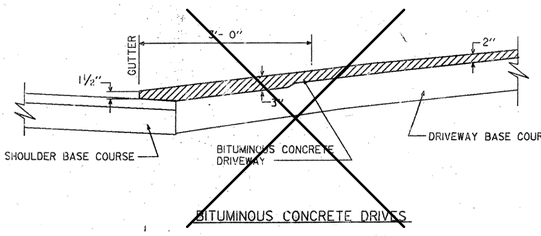
LONGITUDINAL SECTION
OF
SIDEWALKS AT DRIVEWAYS



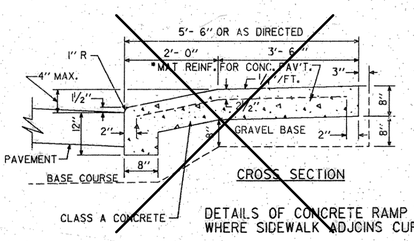
SYMETHICAL

HALF PLAN





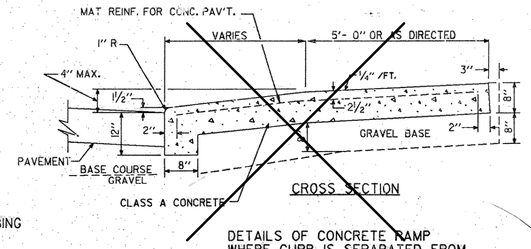
BITUMINOUS CONCRETE DRIVES



CROSS SECTION

DETAILS OF CONCRETE RAMP
WHERE SIDEWALK ADJOINS CURBING

*REINFORCING MATS OF CLOSER SPACING MAY BE USED.



CROSS SECTION

DETAILS OF CONCRETE RAMP
WHERE CURB IS SEPARATED FROM
SIDEWALK BY GRASS PLOT

CONCRETE DRIVEWAY RAMPS

MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON Cadd Files G:\ADES\00_2001\92IA-001

STANDARD SHEET
CONN. DEPT. OF TRANSPORTATION

SIDEWALK AND DRIVES

REVISIONS		
NO.	DATE	DESCRIPTION

Designed by:	T. McMAHON	Date: 3/15/88
Drafted by:	GLENN L. ARLT	Date: 12/15/88
Reviewed by:	C. BIRCHOLZ	Date: 12/20/88
Approval Rec:	M. SHAW	Date: 6/91
Approved:		Date:
Fdhs A. Approval:		Date: 9-18-91

Section: NO SCALE

STANDARD NUMBER
92I-A

NOTE:

1. CONNDOT DETAILS INCLUDED FOR WORK TO BE DONE WITHIN STATE RIGHT OF WAY.
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PROJECT

CD SET

KEY PLAN

DRAWING TITLE
CONNDOT DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	02/06/2023
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L5.07

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ANNOTATION LEGEND

SECTION NUMBER
SIM
1
A101
BUILDING SECTION CUT
SHEET NUMBER TO WHERE REFERENCED

DETAIL NUMBER
SIM
1
A101
DETAILS
SHEET NUMBER TO WHERE REFERENCED

INDIVIDUAL ELEVATION NUMBER
A
D
A601
B
C
INTERIOR ELEVATION
SHEET NUMBER TO WHERE REFERENCED

INDIVIDUAL ELEVATION NUMBER
A
A601
EXTERIOR ELEVATION
SHEET NUMBER TO WHERE REFERENCED

101
DOOR NUMBER

Room name
101
150 SF
ROOM TITLE & NUMBER

1
REVISION NUMBER

1t
WINDOW TYPE

M88
PARTITION TYPE

Name
Elevation
ELEVATION

0
0
COLUMN GRID CENTERLINE

1i
EQUIPMENT DESIGNATION

TYPICAL SIGNALS

TYPICAL IDENTIFICATION SIGN
SCALE: 1" = 3'-0"

THE SIGN DWG. ABOVE IS GENERIC IN NATURE. FOR DESCRIPTION PURPOSES ONLY. A NUMBERING SYSTEM WILL BE ESTABLISHED BY THE OWNER. THE ROOM NAMES ARE INDICATED ON DOOR SCHEDULE DWGS.
SIGNS SHALL BE SURFACE MOUNTED AND SHALL BE MOUNTED SUCH THAT THE BOTTOM OF SIGN IS 48" A.F.F.

NOTES:

1. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10

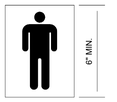
2. RAISED CHARACTERS OR SYMBOLS SHALL BE AT LEAST 5/8" HIGH BUT NO GREATER THAN 2".

3. FONT STYLE SHALL BE HELVETICA MEDIUM AND ALL UPPER CASE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.

4. SIGNS SHALL BE INSTALLED ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.

B.
INTERNATIONAL SYMBOL @ CT

NOTE:
ACCESSIBLE FACILITIES AND EXITS SHALL BE IDENTIFIED USING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY



C.
PICTOGRAM SYMBOLS

5. CHARACTERS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST WITH EACH OTHER. LIGHTING ON DARK OR DARK ON LIGHTING.

6. BACKER PLATE FOR ROOM SIGNAGE @ GLASS MOUNTED LOCATION

7. SEE DOOR SCHEDULE FOR NUMBERING AND NAME IDENTIFICATION OF SIGN.

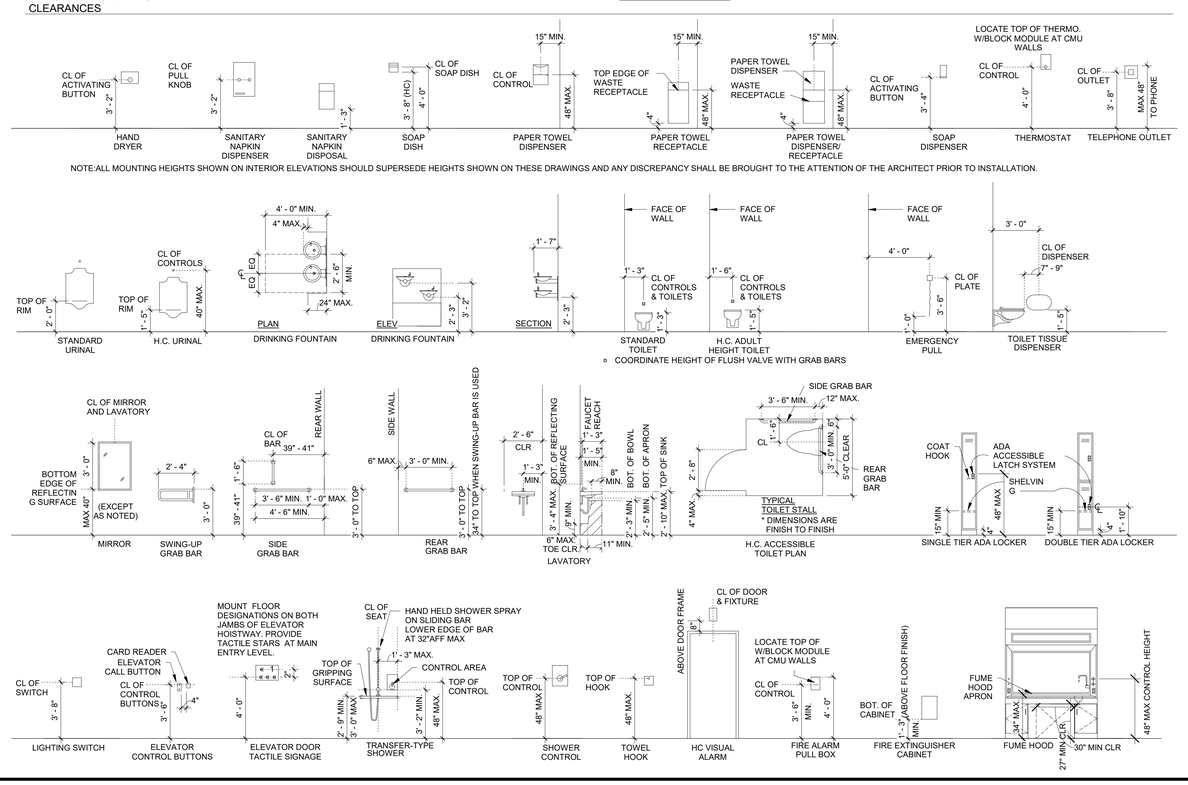
8. COORDINATE ROOM NUMBER WITH OWNER AS PART OF SIGNAGE SUBMITTAL PROCESS.

MATERIAL LEGEND

UNDISTURBED SOIL
COMPACTED GRAVEL
CONCRETE
CRUSHED STONE
BRICK
STONE
CONCRETE MASONRY UNIT
THIN SET TILE
FINISH WOOD
ROUGH WOOD CONTINUOUS
ROUGH WOOD NON-CONTINUOUS
NEW BRICK ELEVATION
NEW BRICK ELEVATION
RIGID INSULATION
GLASS FIBER INSULATON
GLASS - PLAN
METAL FERROUS
METAL NONFERROUS
GROUT / MORTAR
SPLIT FACED CONCRETE MASONRY
GYPSUM BOARD
PLYWOOD
PLYWOOD

FUTHER GRAPHIC REFERENCES:
1. GRAPHIC STANDARDS
2. TIME SAVER STANDARDS

TYPICAL FIXTURE HEIGHTS AND CLEARANCES



ABBREVIATIONS

@	- AT
&	- AND
AC.	- ACOUSTIC, ACOUSTICAL
ACT.	- ACOUSTIC TILE
A.D.	- ACCESS DOOR, AREA DRAIN
ADD	- ADDENDUM
ADH	- ADHASIVE
ADJ	- ADJUSTABLE
AFF	- ABOVE FINISHED FLOOR
ALT	- ALTERNATE
ALUM	- ALUMINUM
APPROX	- APPROXIMATE
ARCH	- ARCHITECTURAL
AWP	- ACOUSTICAL WALL PANEL
AUTO	- AUTOMATIC
AV	- AUDIO VISUAL
BD	- BOARD
BLDG	- BUILDING
BLK(G)	- BLOCK(ING)
BM	- BEAM
BOT.	- BOTTOM
B.O	- BOTTOM OF
BRK.	- BRICK
BSMT	- BASEMENT
BTWN.	- BETWEEN
C	- CHANNEL, COURSE
CAB.	- CABINET
CB	- CATCH BASIN
CCTV	- CLOSED CIRCUIT TV
CER	- CERAMIC
C.G.	- CORNER GUARD
CHAM.	- CHAMFER
CHCK	- CHECK
CIRC.	- CIRCUMFERENCE
CJ	- CONTROL JOINT
CL	- CENTER LINE
CLO	- CLOSET
CLG.	- CEILING
CLK(G)	- CAULK(ING)
CLR	- CLEAR
C.M.U	- CONCRETE MASONRY UNIT
COL	- COLUMN
COMP.	- COMPRESSIBLE
CONC.	- CONCRETE
CONF.	- CONFERENCE
CONST.	- CONSTRUCTION
CONT	- CONTINUATION,CONTINUOUS
COORD	- COORDINATE
CORR	- CORRIDOR
CPT.	- CARPET
C.S.	- CAST STONE
CT	- CERAMIC TILE
CUH	- CABINET UNIT HEATER
CUH-S	- CABINET UNIT HEATER - SURFACE MOUNTED
CUH-R	- CABINET UNIT HEATER - RECESSED
CUH-SR	- CABINET UNIT HEATER - RECESSED
SEMI-	
D.E.F.S.	- DIRECTLY APPLIED EXTERIOR FINISH SYSTEM
DEMO	- DEMOLISH, DEMOLITION
DET.	- DETAIL
DF	- DRINKING FOUNTAIN
DIA	- DIAMETER
DIAG.	- DIAGONAL
DIFF	- DIFFUSER
DIM.	- DIMENSION
DISP	- DISPOSAL
DIV.	- DIVISION
DMPR	- DAMPER
DN	- DOWN
D.O.	- DOOR OPENING
DPFG	- DAMPPROOFING
DPTN	- DEMOUNTABLE PARTITION
DR	- DOOR
DRN	- DRAIN
DW	- DISHWASHER
DWG(S)	- DRAWING(S)
DWR	- DRAWER
E	- EAST
EA.	- EACH
E.F.	- EXHAUST FAN
E.J.	- EXPANSION JOINT
EL.	- ELEVATION
ELEC.	- ELECTRICAL
ELEV.	- ELEVATOR
EMERG.	- EMERGENCY
ENCL.	- ENCLOSURE
EQ	- EQUAL
EQUIP	- EQUIPMENT
ESCAL	- ESCALATOR
E.W.C.	- ELECTRICAL WATER COOLER
EXH.	- EXHAUST
EXP.	- EXPANSION
EXIST.	- EXISTING
EXTR.	- EXTERIOR
F.A.	- FIRE ALARM
F.A.I	- FRESH AIR INTAKE
F.D.	- FLOOR DRAIN
FND.	- FOUNDATION
F.E.	- FIRE EXTINGUISHER
FEC	- FIRE EXTINGUISHER CABINET
FEC-R	- FIRE EXTINGUISHER CABINET - RECESSED
FEC-SR	- FIRE EXTINGUISHER CABINET - SEMI RECESSED
FEC-S	- FIRE EXTINGUISHER CABINET - SURFACE MOUNTED
FF	- FINISH FLOOR
FF&E	- FURNITURE, FINISHES & EQUIPMENT
FHC	- FIRE HOSE CABINET
FIN.	- FINISH(ED)
FIXT.	- FIXTURE
FL	- FLOOR
FLG	- FLASHING
FLUOR.	- FLUORESCENT
FRTW	- FIRE RETARDANT TREATED WOOD
F.S.P	- FIRE STAND PIPE
FT	- FEET, FOOT
FTG	- FOOTING
FURN	- FURNITURE
FURR.	- FURRED, FURRING
FUT	- FUTURE
F.V.C	- FIRE VALVE CABINET
GA.	- GAUGE / GAGE
GALV.	- GALVANIZED
G.B.	- GLAZED BLOCK
G.C.	- GENERAL CONTRACT(OR)
GEN	- GENERATOR
G.F.C	- GROUND FACE CONC. BLOCK
GL	- GLASS, GLAZING
GL.BLK.	- GLASS BLOCK
GRD	- GROUND
GWB	- GYPSUM WALL BOARD
GYP. BD.	- GYPSUM BOARD
H.C.	- HANDICAP(PED)
HDWR.	- HARDWARE
HEX	- HEXAGON
H.M.	- HOLLOW METAL
HORZ.	- HORIZONTAL
HR	- HOUR
HT	- HEIGHT
HTG.	- HEATING
H.V.A.C.	- HEATING, VENTILATION & AIR CON.
I.D.	- INSIDE DIAMETER
IN	- INCH(ES)
INCL.	- INCLUDED, INCLUDING
INFO	- INFORMATION
INSUL.	- INSULATION
INTR.	- INTERIOR
INTERM	- INTERMEDIATE
INV.	- INVERT
ISO	- ISOLATION
JAN	- JANITOR
J.C.	- JANITOR'S CLOSET
JT.	- JOINT
KD	- KNOCK DOWN
KG	- KILOGRAM
KITC.	- KITCHEN
LAM.	- LAMINATE(D)
LAV.	- LAVATORY
LCC	- LEAD COATED COPPER
LOC	- LOCATION
L.F.	- LINEAR FOOT
LG	- LONG
LGTH.	- LENGTH
LH	- LEFT HAND
LIN	- LINEAR
LL	- LIVE LOAD
LLH	- LONG LEG HORIZONTAL
LLV	- LONG LEG VERTICAL
LN	- LINE
LT	- LIGHTING
LTG	- LIGHTINGING
LT. WT.	- LIGHTING WEIGHT
MACH	- MACHINE
MAN	- MANUAL
M.A.T	- MINERAL ACOUSTIC TILE
MAX	- MAXIMUM
M.B.	- MARKER BOARD
MECH	- MECHANICAL
MED.	- MEDIUM
MEMB	- MEMBRANE
MEZZ	- MEZZANINE
MFR	- MANUFACTURER
MH	- MANHOLE
MIN	- MINIMUM
MISC	- MISCELLANEOUS
M.O.	- MASONRY OPENING
MTD	- MOUNTED
MTG	- MOUNTING
MTL.	- METAL
MULL	- MULLION
N	- NORTH
N.A	- NOT APPLICABLE
N.I.C	- NOT IN CONTRACT
NO., #	- NUMBER
NOM	- NOMINAL
NRC	- NOISE REDUCTION COEFFICIENT
N.T.S.	- NOT TO SCALE
O.A.	- OVERALL
O.C	- ON CENTER
O.D	- OUTSIDE DIAMETER / DIMENSION
OHD	- OVER HEAD
O.H.	- OPPOSITE HAND
OPNG	- OPENING
OPP	- OPPOSITE
O.R.D.	- OVERFLOW ROOF DRAIN
ORIG.	- ORIGINAL
OVHD	- OVERHEAD
PART.	- PARTIAL
PERP	- PERPENDICULAR
PL. LAM.	- PLASTIC LAMINATE
PLYWD.	- PLYWOOD
PRF	- POURED RESILIENT FLOORING
PRL.	- PARALLEL
PREFAB	- PREFABRICATED
PROJ	- PROJECT
P.T	- PRESSURE TREATED
PTD	- PAINTED
PVG.	- PAVING
PVMT.	- PAVEMENT
Q.T	- QUARRY TILE
QTY	- QUANTITY
R	- RADIUS OR RISER
R.A.	- RETURN AIR
RAD.	- RADIUS
RCP	- REFLECTED CEILING PLAN
R.D.	- ROOF DRAIN
RECOM	- RECOMMENDED
RECPT	- RECEPTACLE
REC.	- RECESSED
REF.	- REFERENCE
REFL.	- REFLECTED / REFLECTIVE / REFLECT
REFR.	- REFRIGERATOR
REG.	- REGISTER
REINF.	- REINFORCED / REINFORCING
REQ.	- REQUIRE / REQUIRED
RESIL.	- RESILIENT
REV.	- REVISION, REVISED
RET.	- RETURN
R.H.	- RIGHT HAND
RM.	- ROOM
R.O.	- ROUGH OPENING
RTD	- RATED
RTG	- RATING
R.W.L	- RAIN WATER LEADER
S	- SOUTH
SAN.	- SANITARY
SBB	- SANDBLASTED BLOCK
S.C.	- SOLID CORE
SCHE.	- SCHEDULE
S.D.	- STORM DRAIN
SECT.	- SECTION
SEW.	- SEWER
SF	- SQUARE FEET/FOOT
SHT.	- SHEET
SHWR	- SHOWER
SIM.	- SIMILAR
S.O.G	- SLAB ON GRADE
SPEC.	- SPECIFICATION
SPKLR	- SPRINKLER
SPKR	- SPEAKER
SQ.	- SQUARE
S/S	- SANITARY SINK
S.S	- STAINLESS STEEL
S.STL	- STAINLESS STELLA
ST	- STREET
STA.	- STATION
STC	- SOUND TRANSMISSION CLASS
STD	- STANDARD
STL	- STEEL
STOR.	- STORAGE
STRG	- STRINGER
STRL	- STRUCTURAL
STRUCT.	- STRUCTURAL
SUBCTG	- SUBCATEGORY
SUSP.	- SUSPENDED
SYS	- SYSTEM
T&B	- TOP AND BOTTOM
T&G	- TONGUE AND GROOVE
T	- TREAD
TAN.	- TANGENT
T.B	- TACK BOARD
TEC.	- TECTUM
TEL	- TELEPHONE OR TELECOM
TEMP.	- TEMPORARY
TER.	- TERRAZZO
THK	- THICKNESS
THRES	- THRESHOLD
THRU	- THROUGH
TMPD	- TEMPERED
T.O.	- TOP OF (SEE OTHER WORD)
TV	- TELEVISION
TYP.	- TYPICAL
UNFIN.	- UNFINISHED
U.O.N	- UNLESS OTHERWISE NOTED
UR	- URINAL
U.P.T	- UNGLAZED PORCELAIN TILE
UTIL.	- UTILITY
VAR.	- VARIES
VAC	- VENTILATION AND AIR CONDITIONING
VCT	- VINYL COMPOSITION TILE
VERT.	- VERTICAL
VEST.	- VESTIBULE
V.I.F	- VERIFY IN FIELD
VT	- VINYL TILE
VWC	- VINYL WALL COVERING
W	- WEST
W/	- WITH
W.C	- WATER CLOSET
WD.	- WOOD
WDW	- WINDOW
W/O	- WITHOUT
WTPFG	- WATERPROOFING
WWF	- WELD WIRE FABRIC
WT	- WEIGHT

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.

2. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF DISCREPANCIES IN THE DRAWINGS.

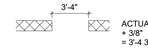
3. DO NOT SCALE DRAWINGS, USE WRITTEN DIMENSIONS ONLY.

4. ALL DIMENSIONS ARE ROUGH FRAMING DIMENSIONS. DIMENSIONS ARE FROM FACE OF METAL STUD WALL, TO FACE OF CONCRETE BLOCK, TO CENTER LINE OF STRUCTURAL GRID. SEE WALL TYPES FOR ADDITIONAL INFORMATION.

5. GENERAL REQUIREMENTS FOR MASONRY WALLS WHERE NOT SPECIFICALLY DETAILED OTHERWISE.

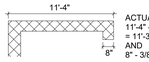
A. ALL MASONRY DIMENSIONS ARE SHOWN AS MODULAR DIMENSIONS UNLESS OTHERWISE NOTED.
B. MASONRY DIMENSIONS:
UNLESS OTHERWISE INDICATED ALL MASONRY PLAN DIMENSIONS ARE NOMINAL, WITH 'NOMINAL' DEFINED TO MEAN ACTUAL DIMENSION SHOWN OR DIMENSION SHOWN +- 3/8".

MASONRY DIMENSIONS ARE DEFINED TO BE 3/8" LARGER THAN DIMENSIONS SHOWN EXAMPLE:



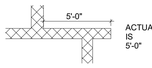
ACTUAL DIMENSION IS 3'-4" + 3/8" = 3'-4 3/8"

OVERALL DIMENSIONS OF MASONRY WALL LENGTH OR THICKNESS ARE DEFINED TO BE 3/8" SMALLER THAN DIMENSIONS SHOWN EXAMPLE:



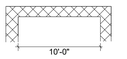
ACTUAL DIMENSIONS ARE 11'-4" - 3/8" = 11'-3 5/8" AND 8" - 3/8" = 7 5/8"

DIMENSIONS FROM INSIDE TO OUTSIDE CORNERS ARE ACTUAL EXAMPLE:



ACTUAL DIMENSION IS 5'-0"

INSIDE DIMENSIONS OF MASONRY WALL ARE DEFINED TO BE 3/8" LARGER THAN DIMENSIONS SHOWN EXAMPLE:



ACTUAL DIMENSION IS 10'-0" + 3/8" = 10'-0 3/8"

6. THE TERM "TYPICAL" IS USED TO DEFINE A GENERAL CONDITION THAT WILL APPLY TO ALL SUCH CONDITIONS EXCEPT AS OTHERWISE NOTED.

7. ALL INTERIOR WALL SHALL TERMINATE AT BOTTOM OF METAL DECK OR BOTTOM OF STRUCTURAL STEEL.

8. ALL SMOKE WALLS OR FIRE RATED PARTITIONS WHICH TERMINATE AT UNDERSIDE OF METAL DECK SHALL HAVE FLUTES AT METAL DECK FILLED SOLID WITH FIRE SAFING INSULATION.

9. STAIR ENCLOSURES SHALL HAVE NO PENETRATIONS OR OPENINGS FOR WIRING, PIPING, DUCTS, ETC.. EXCEPT FOR THOSE REQUIRED TO SERVE THE STAIR.

10. ALL PIPES, CONDUITS, CABLES, WIRES, DUCTS, ETC., THAT PASS THROUGH FLOOR, SMOKE BARRIERS, FIRE RATED PARTITIONS AND FIRE WALLS SHALL HAVE THE SPACE BETWEEN THE PENETRATING ITEM AND THE WALL FILLED WITH EITHER FIRE RESISTANT JOINT SEALER OR FIRE SAFING INSULATION.

11. FIRESTOPPING SHALL BE PROVIDED IN CONNECTIONS BETWEEN HORIZONTAL AND VERTICAL SPACES SUCH AS SOFFITS, DROPPED CEILINGS AND COVE CEILINGS. FIRESTOPPING SHALL CONSIST OF APPROVED NON-COMBUSTIBLE MATERIALS, SECURELY FASTENED IN PLACE AND SHALL BE CONTINUOUSLY MAINTAINED. FIRESTOPPING SHALL NOT BE CONCEALED FROM VIEW UNTIL INSPECTED AND APPROVED.

12. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A OR B. INTERIOR FINISHES IN STAIRS, CORRIDORS, LOBBIES AND EXITS SHALL BE CLASS A. FLOOR COVERINGS WITHIN STAIRS, CORRIDORS OR EXITS SHALL BE CLASS I OR II.

13. COORDINATE LOCATION OF ELECTRICAL DEVICES; I.E.: LIGHTINGS, SWITCHES, OUTLETS, FIRE ALARM DEVICES, SPEAKERS, ETC..; WITH ELECTRICAL DRAWINGS AND LOCATIONS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS. IF CONFLICT ARISES BETWEEN ELECTRICAL DRAWINGS AND, ARCHITECTURAL DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO INSTALLATION OF DEVICE.

14. PATH ALL OPENINGS IN WALLS, CEILINGS AND FLOORS TO MATCH CONSTRCUTION ASSEMBLIES WHERE ELECTRICAL, PLUMBING AND MECHANICAL CONDUITS, PIPES, ETC. HAVE BEEN REMOVED.

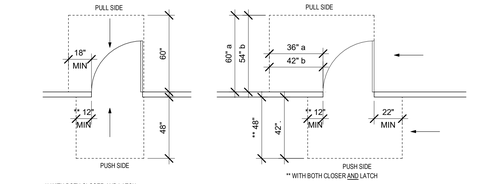
15. HARDWARE NOTES;

A. ALL RATED DOORS SHALL HAVE CLOSERS AND POSITIVE LATCHING LOCKSETS OR LATCHSETS.
B. ALL DOORS EXITING 50 OR MORE PEOPLE SHALL HAVE PANIC EXIT DEVICES.
C. ALL DOORS LEADING TO HAZARDOUS SPACES SHALL HAVE TACTILE WARNING. HAZARDOUS AREAS INCLUDE: CUSTODIAL SPACES, BOILER ROOM, MECHANICAL ROOMS AND ELECTRICAL CLOSETS.
D. ACCESSIBLE DOOR HARDWARE FOR PEOPLE WITH DISABILITIES SHALL BE PROVIDED TO COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS.

16. ACCESSIBILITY NOTES:

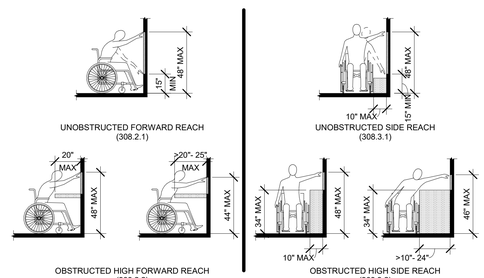
A. ALL PROGRAMS ARE ACCESSIBLE TO PERSONS WITH DISABILITIES.
B. ALL ROOMS USED BY PERSONS WITH DISABILITIES HAVE ACCESSIBLE WORK STATIONS.
C. ALL ACCESSIBLE ELEMENTS ARE MARKED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND THE ACCESSIBLE ROUTE HAS 36 INCH MINIMUM CLEARANCE THROUGHOUT (32 INCH CLEARANCE FOR DOORWAYS).
D. ALL ITEMS SHALL COMPLY WITH SECTION 804, REHABILITATION ACT 1973.
E. ALL LABS & SHOPS USED BY PERSON W/ DISABILITIES HAVE ACCESSIBLE EMERGENCY EYEWASH & BODY WASH STATION

MANEUVERING CLEARANCES FOR ALL ACCESSIBLE DOORS

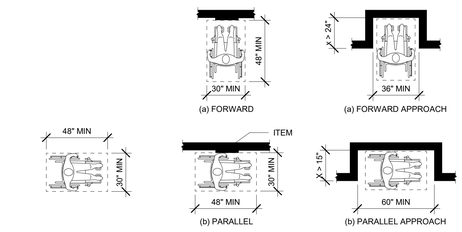


REACH RANGES AND CLEAR FLOOR SPACE

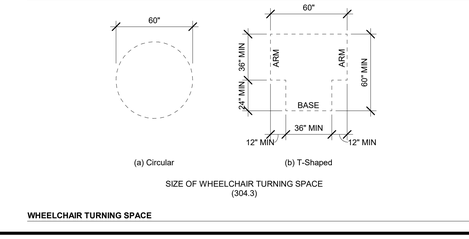
ALL REQUIREMENTS ARE BASED ON ICC/ANSI A117.1 /2017 W/CT STATE AMENDMENTS



REACH RANGES



CLEAR FLOOR SPACE



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PROJECT
CD SET

DRAWING TITLE
GENERAL INFORMATION

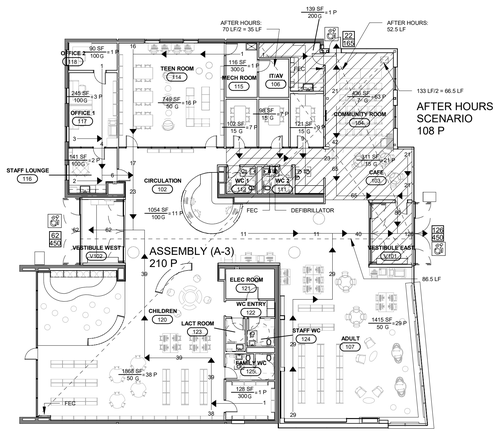
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

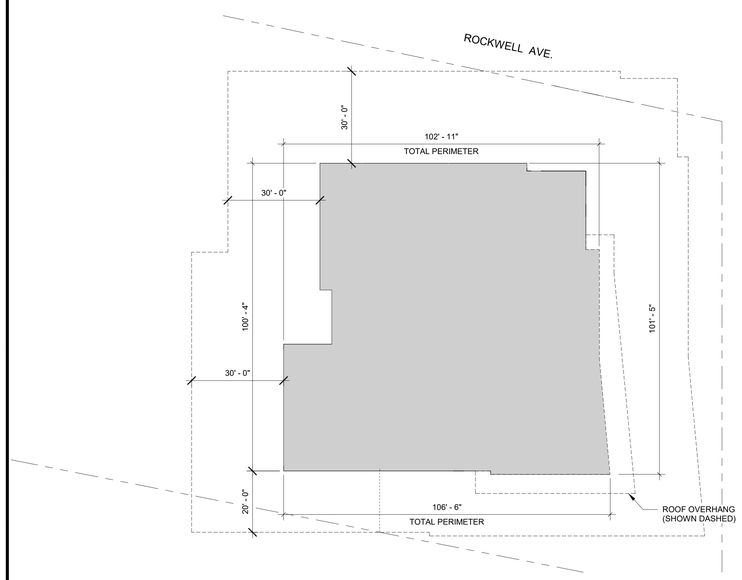
A0.01

2/15/2023 4:52:32 PM BIM 360://Bloomfield Library - McMahon Building/220103 - McMahon Library-Arch-BIM360-2021.rvt



AREAS OF LIBRARY TO BE OPENED AFTER HOURS

1 FIRST FLOOR PLAN - Code
1/16" = 1'-0"



2 OPEN PERIMETER CALCULATIONS
1" = 20'-0"

1. **USE GROUP CLASSIFICATION (IBC CHAPTER 3)**
PRIMARY A3 (ASSEMBLY)

2. **CONSTRUCTION TYPE (IBC CHAPTER 6)**
MINIMUM TYPE REQUIRED TYPE VB (NON-SPRINKLERED)
ACTUAL TYPE PROVIDED TYPE VB (NON-SPRINKLERED)

3. **BUILDING HEIGHT (IBC CHAPTER 5)**
(E) ALLOWABLE HEIGHT (STORY/FEET) 1 STORIES / 40 FEET (NON-SPRINKLERED)
ACTUAL HEIGHT (STORY/FEET) 1 STORIES / 24' - 6"
STORIES ABOVE GRADE 1 STORIES

4. **BUILDING AREA (IBC CHAPTER 5)**
BUILDING AREA (EACH FLOOR INSIDE FACE OF WALL & OVERHANGS)

FIRST FLOOR:	8,923 SF
RENOVATION:	5,636 SF
ADDITION:	3,287 SF
TOTAL:	9,950 SF (8,923 SF + 1,027 ROOF OVERHANGS)

5. **AREA MODIFICATIONS TO TABLE 503**

	NORTH	EAST	WEST	SOUTH
TOTAL PERIMETER =	103 LF	102 LF	100 LF	107 LF
OPEN PERIMETER =	103 LF	102 LF	100 LF	76 LF

TOTAL PERIMETER (P) = 412 LF

TOTAL OPEN PERIMETER (F) = 381 LF
(BUILDING PERIMETER WHICH FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING 30' OPEN MIN. WIDTH)

WIDTH OF OPEN SPACE (W) = 30.0
If = 100*[(F/P) - 0.25] * (W/30)

% FRONTAGE INCREASE (LF) = 100*[(381/412) - 0.25] * (30/30) **= 68%**

ALLOWABLE AREA (TABLE 506.2)
A-3 OCCUPANCY NS = 6,000 SF

EQUATION 5-1
A= 6,000 + (6,000 x 0.68)
A= 10,080 SF

8. **FIRE RESISTANT RATINGS OF STRUCTURAL ELEMENTS (IBC TABLE 601)**

	REQUIRED	PROVIDED
STRUCTURAL FRAME: INCLUDING COLUMNS, GIRDERS, TRUSSES	0	0
BEARING WALLS - EXTERIOR	NA	NA
BEARING WALLS - INTERIOR	NA	NA
NONBEARING WALLS AND PARTITIONS (EXT.) SEPARATION <5'	1	1
NONBEARING WALLS AND PARTITIONS (EXT.) SEPARATION ≥5' < TO 10'	1	1
NONBEARING WALLS AND PARTITIONS (EXT.) SEPARATION ≥10' <TO 30'	0	0
NONBEARING WALLS AND PARTITIONS (INTERIOR)	0	0
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	0	0
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	0	0
FIRE WALLS	NA	NA
EXIT ENCLOSURES (LESS THAN 4 STORIES	NA	NA
SHAFT ENCLOSURES (LESS THAN 4 STORIES)	NA	NA
MIXED USE SEPARATION	NA	NA
FIRE SEPARATIONS, SMOKE BARRIERS		

9. **OCCUPANCY LOAD**
DESIGN LOAD FOR EACH FLOOR:
FIRST FLOOR 210

TOTAL EXIT CAPACITY FOR EACH FLOOR:
FIRST FLOOR 1,065

DESIGN TOTAL FOR BUILDING: 210
TOTAL EXIT CAPACITY FOR BUILDING: 1,065

10. **MODIFICATIONS**
NO

11. **ACCESSIBLE BUILDING**
DESIGNATED

12. **MINIMUM PLUMBING FIXTURE COUNT**

	ASSEMBLY(A3)	TOTAL REQUIRED	TOTAL PROVIDED
WC FEMALE :	105/65 = 2	= 2	= 3
WC MALE :	105/125 = 1	= 1	= 2
LAVS :	210/200 = 2	= 2	= 4
DRINKING F. :	210/500 = 1	= 1	= 2
SERVICE SINK :	1	= 1	= 1

DESIGN TOTAL:

A3 : TOTAL OCCUPANCY = 210

12. **MINIMUM PLUMBING FIXTURE COUNT -AFTER HOURS SCENARIO**

	ASSEMBLY(A3)	TOTAL REQUIRED	TOTAL PROVIDED
WC FEMALE :	54/65 = 1	= 1	= 1
WC MALE :	54/125 = 1	= 1	= 1
LAVS :	108/200 = 1	= 1	= 2
DRINKING F. :	108/500 = 1	= 1	= 2
SERVICE SINK :	1	= 1	= 0

DESIGN TOTAL:

A3 : TOTAL OCCUPANCY = 108

13. **SPRINKLER PROTECTION**
NON SPRINKLERED

14. **CODES TO WHICH THIS PROJECT WAS DESIGNED**

A. 2021 INTERNATIONAL BUILDING CODE PORTION OF 2022 CONNECTICUT STATE BUILDING CODE [CSBC]
B. 2021 INTERNATIONAL EXISTING BUILDING CODE PORTION OF 2022 CONNECTICUT STATE BUILDING CODE (IEBC)
C. 2022 CONNECTICUT STATE FIRE SAFETY CODE [CFSC]
D. 2022 CONNECTICUT STATE FIRE PREVENTION CODE [CSFPC]
E. 2021 INTERNATIONAL PLUMBING CODE PORTION OF THE 2022 CONNECTICUT STATE BUILDING CODE (IPC)
F. 2021 INTERNATIONAL MECHANICAL CODE PORTION OF THE 2022 CONNECTICUT STATE BUILDING CODE (IMC)
G. 2021 INTERNATIONAL ENERGY CONSERVATION CODE PORTION OF THE 2022 CONNECTICUT STATE BUILDING CODE (IECC)
H. 2020 NATIONAL ELECTRICAL CODE PORTION OF THE 2022 CONNECTICUT STATE BUILDING CODE (NEC) - NFPA 70
I. 2017 ACCESSIBLE AND USABLE BUILDING AND FACILITIES OF CONNECTICUT (A117.1)
J. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN [ADA]

15. **THRESHOLD BUILDING CONDITION**
NO

LAND OF OPPORTUNITY
BLOOMFIELD
CONNECTICUT USA

Department of Planning & Zoning
TOWN OF BLOOMFIELD
800 BLOOMFIELD AVENUE
BLOOMFIELD, CT 06002-0337
860-769-3515

February 1, 2023

TSKP Studio
Attn: Ryszard Szczypek
146 Wyllys Street
Hartford, CT 06106

Re: McMahon Library, 1015 Blue Hills Avenue

Dear Mr. Szczypek:

Please be advised that, at a meeting held on December 15, 2022 the Bloomfield Town Plan and Zoning voted to APPROVE the Site Plan application to construct a 3,280 s.f. library addition with additional parking spaces at property located at 1015 Blue Hills Avenue in a GWD zone, owner Town of Bloomfield. The approval is conditioned on the representations made on the record and the following conditions:

Referenced Plans
"BLOOMFIELD PUBLIC LIBRARY, McMahon Wintonbury Library 1015 Blue Hills Avenue, Bloomfield, CT 06002 December 7, 2022 Town Comments" 21 Sheets prepared by TSKP Studio, LLC, originally dated October 6, 2022 and most recently revised December 9, 2022.

Conditions to be met prior to the signing of plans:
1. Given that the area just to the west of the parking lot is already cleared lawn, and for maintenance and aesthetic reasons, the side slopes of the dry swale should be no steeper than 6:1.
2. The entrance drives to the parking lot are graded on the submitted plan in such a way that the vast majority of the runoff from the parking lot will end up in the street. This is unacceptable. The following comments, supported by a diagram that has been separately provided to the applicant, address this situation:
   a. The topographic survey indicates that previous paving of the east entrance drive encroached on the roadway pavement such that the effective gutter line is approximately two feet from the curbline extended. This situation needs to be corrected such that the gutter line is at the curbline extended.
   b. In accordance with NCHRP guidelines, the slope into the site from the gutter line should not exceed 7% (assuming a 2% crown slope on the street). This includes both sides of the sidewalk up to 10 feet from the gutter line.
   c. At the west entrance, a valley gutter must be created in the pavement, at least five feet south of the grading ridgeline developed in the entrance throat, to keep the parking lot runoff in the parking lot and directed to the water quality dry swale. On the east side of this drive, the drop from ridge to valley gutter must be at least 0.15 feet; on the west side, the drop from ridge to valley gutter must be at least 0.25 feet.
   d. At the east entrance, such a valley gutter is not necessary if the pavement slope from east to west at the south end of the entrance slope is at least 2.5% (to minimize the amount of runoff that does continue to the street).
   e. Both the east and west parking bay areas must be sloped east to west, to collect runoff waters against the easterly curb, to help ensure runoff waters stay in the parking lot.

Conditions to be met prior to the issuance of permits and/or start of construction:
3. Three sets of paper plans with any required changes shall be submitted for the Commission Secretary's signature.
4. Permanent lot corner monumentation sufficient to establish property lines near any proposed construction activity must be in place prior to commencement of construction.

Conditions which must be met prior to the Issuance of a Certificate of Compliance:
5. Complete as-built plans shall be submitted prior to the issuance of any certificates of zoning compliance. The as-built plan shall also contain a certification by a Professional Engineer that they have inspected the site improvements and that they have been installed in accordance with the approved plans. Any deviations or omissions must be noted.
6. No Certificate of Compliance or other final approval shall be issued until the Zoning Enforcement Officer has signed off on the final work. When minor site work cannot be completed because of weather or other pertinent reason, a conditional approval may be issued for a period not to exceed 180 days.

General Conditions:
7. This approval is for the specific use and structures identified in the application. Any change in the nature of the use or the structure will require new approvals from the Bloomfield Town Plan and Zoning Commission.
8. This project shall be constructed and maintained in accordance with the referenced plans and representations made for the record. Minor modifications to the approved plans may be allowed in accordance with the regulations, subject to staff review and approval.
9. All pertinent construction shall conform to all applicable Town of Bloomfield standard specifications and details.
10. All work associated with the construction of facilities as approved must be completed by December 15, 2027 or this approval shall be rendered null and void, unless an extension is granted by the Commission.
11. By acceptance of this permit and conditions, the applicant and owner acknowledge the right of Town staff to periodically enter upon the subject property for the purpose of determining compliance with the terms of this approval.
12. The conditions of this approval shall be binding on the applicant, land owners, and their successors and assigns. A copy of this motion shall be placed on the final plans submitted for signing.

If you have any questions please call me at 860-769-3572.

Very truly yours,

Justin LaFountain, AICP, CZEO
Assistant Director of Building and Land Use

Cc: Tax Assessor

DRAWING LEGEND

- XXX — ROOM NUMBER
- ROOM OCCUPANCY LOAD: 875 AREA IN SQUARE FEET; 20 → 43P ROOM OCCUPANCY LOAD; OCCUPANCY LOAD FACTOR
- 191 — MAX.. ALLOWABLE EGRESS OCCUPANCY OF STAIR
- 440 — MAX.. ALLOWABLE OCCUPANCY OF CORRIDOR
- EXIT CAPACITY: X ACTUAL EGRESS OCCUPANCY OF DOOR OR STAIR; 165 MAX.. ALLOWABLE EGRESS OCCUPANCY OF DOOR OR STAIR
- ACCESSIBLE AREA OR EXIT
- ACCESSIBLE AT GRADE (FLUSH CONDITION)
- R — REQUIRED EXTERIOR EXIT
- AOR — AREA OF REFUGE
- SMOKE RESISTANT CONSTRUCTION (TIGHT TO DECK ABOVE; SEAL ALL PENETRATIONS TO RESIST PASSAGE OF SMOKE)
- 3 HOUR FIRE RATED WALL (TIGHT TO DECK ABOVE)
- 2 HOUR FIRE RATED WALL (TIGHT TO DECK ABOVE)
- 1 HOUR FIRE RATED WALL (TIGHT TO DECK ABOVE)
- -1 HR RATED CEILING (HORIZONTAL SHAFT WALL); -1HR RATED ROOF STRUCTURE; UL DESIGN NO P734 (FINISH RATING); -1 HR RATED FLOOR; UL DESIGN NO D759 (FINISH RATING)
- -2 HR RATED CEILING (HORIZONTAL SHAFT WALL); -2 HR RATED FLOOR; UL DESIGN NO D759 (FINISH RATING)
- LINE OF LUMINESCENT WALL BASE

DOOR CLEAR EGRESS WIDTHS

GENERAL SPACES:
.2 FACTOR

X / 145	2'-8" DOOR (29" CLR.)
X / 155	2'-10" DOOR (31" CLR.)
X / 165	3'-0" DOOR (33" CLR.)
X / 175	3'-2" DOOR (35" CLR.)
X / 190	3'-5" DOOR (38" CLR.)
X / 225	4'-0" DOOR (45" CLR.)
X / 330	6'-0" DOOR (66" CLR.)
X / 350	6'-4" DOOR (70" CLR.)
X / 355	6'-5" DOOR (71" CLR.)
X / 360	6'-6" DOOR (72" CLR.)
X / 370	6'-8" DOOR (74" CLR.)
X / 390	7'-0" DOOR (78" CLR.)
X / 395	7'-1" DOOR (79" CLR.)
X / 400	7'-2" DOOR (80" CLR.)
X / 405	7'-3" DOOR (81" CLR.)

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

ASSEMBLY UNCONCENTRATED	=	15 NET
CLASSROOM	=	20 NET
SHOPS AND OTHER VOCATIONAL AREAS	=	50 NET
LOCKER ROOMS	=	50 GROSS
EXERCISE ROOMS	=	50 GROSS
OFFICE	=	100 GROSS
ACCESSORY STORAGE AREAS AND MECH... EQUIP. RM...	=	300 GROSS

tskpstudio.com
TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

STATE OF CONNECTICUT
REGISTERED ARCHITECT
No. 19?
RYSZARD SZCZYPEK

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY
1015 BLUE HILLS AVE.
BLOOMFIELD. CT 06002

PROJECT

CD SET

DRAWING TITLE

CODE PLAN & CONDITIONS OF APPROVAL

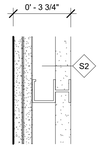
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A0.02

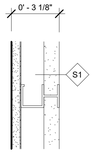
2/15/2023 4:53:38 PM BIM 360://Bloomfield Library - McMahon Building/2210101 - McMahon Library-Arch-BIM360-2021.rvt



2 HOUR RATING SHAFT WALL

STC NA

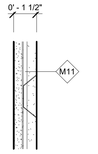
2 LAYER 5/8" GYP BD
2 1/2" CH STUDS @ 24" OC
1" GYPSIUM LINER PANEL



1 HOUR RATING SHAFT WALL

STC NA

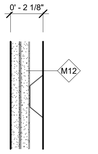
1 LAYER 5/8" GYP BD
2 1/2" CH STUDS @ 24" OC
1" GYPSIUM LINER PANEL



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

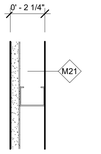
1 LAYER 5/8" GYP BD
7/8" MET FURRING
@ 16" OC



1 HOUR FINISH RATING
UL DES U301

STC NA

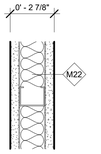
2 LAYERS 5/8" GYP BD
7/8" MET FURRING
@ 16" OC



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

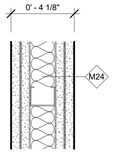
1 LAYER 5/8" GYP BD
1-5/8" MET STUD
@ 16" OC



1 HOUR RATING
OSU T-3296

STC 39

2 LAYER 5/8" GYP BD
1-5/8" MET STUD
@ 16" OC
1-1/2" MINERAL FIBER
INSULATION



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

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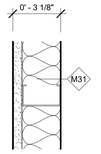
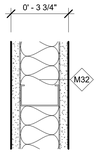
BOTH SIDES ON 1-5/8"
MET STUD @ 16" OC
1-1/2" MINERAL FIBER
INSULATION



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

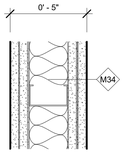
1 LAYER 5/8" GYP BD
2-1/2" MET STUD
@ 16" OC



1 HOUR RATING
UL DES U419

STC 45

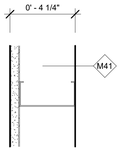
2 LAYERS 5/8" GYP BD
2-1/2" MET STUD
@ 16" OC
2-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
UL DES U419

STC 50

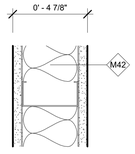
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 2-1/2"
MET STUD @ 16" OC
2-1/2" SOUND
ATTENUATION BATTS



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

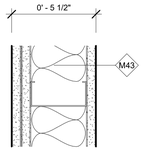
1 LAYER 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC



1 HOUR RATING
UL DES U419

STC 45

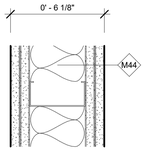
2 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 50

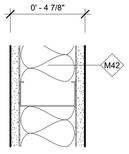
3 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
UL DES U419

STC 55

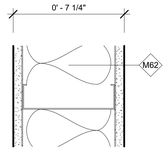
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 3-5/8"
MET STUD @ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 45

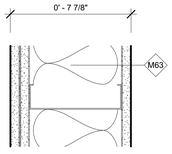
2 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 49 (EST)

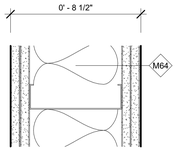
2 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 54 (EST)

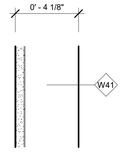
3 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 54 (EST)

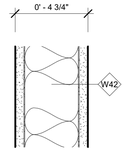
4 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

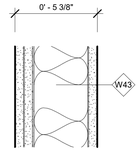
1 LAYER 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC



1 HOUR RATING
UL DES U305

STC 37 (EST)

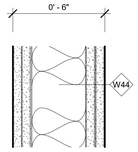
2 LAYERS 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U305

STC 42 (EST)

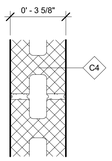
3 LAYERS 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
SWRI 01-5920-614

STC 44

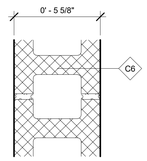
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 2 x 4
WD STUD @ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 TO 2 HR RATING
IBC TABLE 721.3.2

STC 44

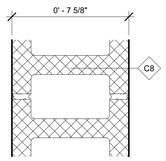
4" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 46

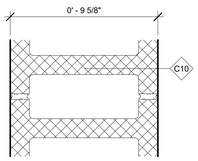
6" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 48

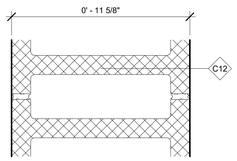
8" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 50

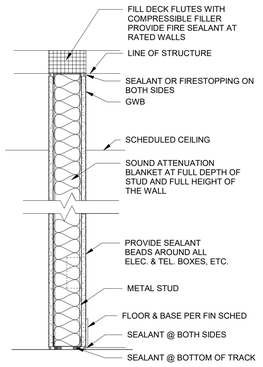
10" CONC MASONRY



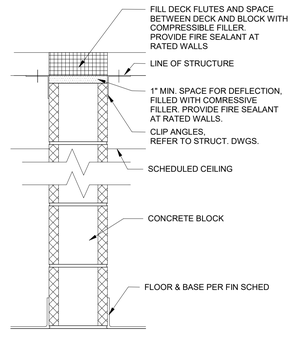
1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 52

12" CONC MASONRY



NOTE
SEE CODE PLANS FOR LOCATIONS OF SMOKE RESISTANT AND FIRE RATES PARTITIONS
FOR 1 OR 2 HR RATED PARTITIONS
COMPLY WITH UL# U419



NOTE
SEE CODE PLANS FOR LOCATIONS OF SMOKE RESISTANT AND FIRE RATED PARTITIONS
FOR 1 OR 2 HR RATED PARTITIONS
COMPLY WITH UL# U906

GENERAL PARTITION NOTES:

1. ALL PARTITIONS SHALL BE PARTITION TYPE M42 UNLESS OTHERWISE NOTED.

2. ALL PARTITIONS SHALL RUN TO THE UNDERSIDE OF DECK OR BEAM ABOVE.
   A. WHERE THERE IS AN OBSTRUCTION, SUCH AS BEAM RUNNING PERPENDICULAR TO THE PARTITION, BOX AROUND THE OBSTRUCTION.COMPLETELY FILL ALL VOIDS WITH CONSTRUCTION EQUAL TO THAT OF THE PARTITION.

   B. WHERE A NON- FIRE RATED PARTITION RUNS PARALLEL TO AND TERMINATES AT AN OPEN WEB JOIST OR TRUSS, PROVIDE METAL FRAMING AND ONE LAYER OF GWB, WITH SOUND BATTS, FROM THE BOTTOM OF THE JOIST OR TRUSS TO THE UNDERSIDE OF DECK, FOR A CONTINUOUS ACOUSTICAL SEPARATION.

   C. WHERE A FIRE RATED PARTITION RUNS PARALLEL TO AND TERMINATES AT AN OPEN WEB JOIST OR TRUSS, PROVIDE FIRE RATED CONSTRUCTION TO THE UNDERSIDE OF DECK, WITH RATING EQUAL TO THAT OF THE WALL.

3. PROVIDE MINERAL WOOL BATTS WITH 60% OVERCUT AROUND ALL PENETRATIONS, PIPING, CONDUITS, DUCTS, CABLES, WIRES AND ALL STAIR AND HAZARDOUS AREA WALLS TO ALLOW FOR COMPLETE SMOKE TIGHT CONSTRUCTION IN ACCORDANCE WITH THE CT. STATE FIRE SAFETY CODE.

4. TOILET ROOM PARTITIONS:
   ALL GWB PARTITIONS AT TOILET ROOMS ARE REUIRED TO HAVE MOISTURE RESISTANT GWB ON TOILET ROOM SIDE OF PARTITION. CERAMIC TILE WHERE INDICATED BY ROOM FINISH SCHEDULE.

5. CMU PARTITION TYPES:
   REFER TO SPECIFICATIONS FOR TYPE OF CMU. REFER TO STRUCTURAL DRAWINGS FOR SPECIFICATIONS FOR REINFORCMENT.

6. FIRE AND SOMKE RATED PARTITION TYPES:
   FIRE STOP PERIMETER ANS ALL PENETRATIONS WITH FIRESAFING AND FIRESTOP SEALANT IN ACCORDANCE WITH A SPECIFIED UL APPROVED SYSTEM.

7. STAIR ENCLOSURES:
   FIRE STOP PERIMETER AND ALL PENETRATIONS WITH FIRESAFING AND FIRESTOP SEALANT IN ACCORDANCE WITH A SPECIFIED UL APPROVED SYSTEM. PENETRATIONS INTO AND OPENINGS THROUGH AN EXIT ENCLOSURE ASSEMBLY ARE PROHIBITED EXCEPT FOR REQUIRED EXIT DOORS, SPRINKLER PIPING, STANDPIPES AND ELECTRICAL CONDUIT SERVING THE STAIRWAY AND TERMINATING AT A STEEL BOX NOT TO EXCEED 16 SQ. INCHES IN TOTAL AREA.

8. GYPSUM WALL BOARD TYPES:
   REFER TO SPECS FOR ABUSE RESISTANT TYPE LOCATIONS.

9. ALL GYPSUM BOARD AT PLUMBING CHASES SHALL BE MOISTURE RESISTANT.

10. ALL GWB IN FIRE RATED PARTITIONS SHALL BE TYPE "X".

11. PROVIDE BLOCKING WITHIN PARTITIONS FOR INSTALLATION OF WAINSCOTS, BUMPERS, CORNER GUARDS, SHELVING, MILWORK, EQUIPMENT AND FIXTURES.

12. REFERENCE PLAN DETAILS AND WALL SECTIONS FOR ADDITIONAL INFORMATION INVOLVING PARTITION CONFIGURATION.

13. REFER TO CODE SHEET A0.02 FOR LOCATION OF FIRE RATED WALL ASSEMBLIES INDICATED ON THIS DRAWING.

14. WALL TYPES M11 TO M82 ARE ACOUSTICAL PARTITIONS (TYPICAL). PROVIDE 1 OR 2 HOURS RATING ONLY WHERE INDICATED IN SHEET A0.02.

ACOUSTIC NOTES

1. THE SOLE PLATE FOR THE PARTITION SHALL LIE FLUSH WITH SUB-FLOOR, WITH BOTTOM OF PLATE CAULKED WITH TWO BEADS OF NON-HARDENING RESILIENT ACOUSTIC SEALANT (CAULK) PER ASTM C919.

2. PARTITIONS WITH DOUBLE STUD CONSTRUCTION SHOULD HAVE NO RIGID CONTACT WITH EACH OTHER. IF BRACING IS REQUIRED FOR STABILITY, STUDS SHOULD BE BRACED LATERALLY, AS PER UL DESIGN #493

3. JOINTS OF GYPSUM BOARD LAYERS FOR DOUBLE LAYER PARTITIONS SHALL BE STAGGERED, OR ALTERNATIVELY, JOINTS OF ONE LAYER SHALL RUN VERTICALLY WITH THE OTHER LAYER JOINT RUNNING HORIZONTALLY TO MINIMIZE GAPS.

4. WALL GYPSUM BOARD PANELS SHALL EXTEND FROM THE FLOOR TO WITHIN ½ INCH OF THE DECK ABOVE. THE GYPSUM SHALL NOT CONTACT THE DECK ABOVE. THE GAP BETWEEN THE WALL GYPSUM BOARD AND THE DECK SHALL BE FILLED WITH A BEAD OF NON-HARDENING RESILIENT ACOUSTIC SEALANT PER ASTM C919. WALL GYPSUM BOARD LAYERS SHALL NOT CONTACT THE FLOOR BELOW, OR THE OTHER WALLS IN THE ROOM. TEMPORARY ¼ INCH FLOOR AND WALL SPACERS MAY BE USED TO SET THE WALL BOARD. THE FLOOR/WALL, CEILING/WALL AND WALL/WALL GAPS FOR EACH GYPSUM BOARD LAYER IN EACH PARTITION SHALL BE COMPLETELY SEALED AIR TIGHT USING SAME SEALANT.

5. ANY PENETRATIONS FOR ELECTRICAL AND LOW-VOLTAGE (TELEPHONE/CABLE) SERVICE BOXES SHALL BE STAGGERED SO THAT NO PENETRATION PASSES THROUGH THE TWO WALL PARTITIONS IN THE SAME LOCATION. SERVICE BOX PENETRATIONS SHALL BE STAGGERED AND SHALL NOT BE DIRECTLY ACROSS FROM EACH OTHER, BACK TO BACK.

6. ALL ELECTRICAL CONNECTIONS TO LIGHTING FIXTURES INSTALLED ON THE WALL SHALL BE VIBRATION ISOLATED, BY USING COILED WIRE WITH ADEQUATE SLACK OR OTHER MEANS TO AVOID RIGID CONDUIT ATTACHMENTS.

7. ALL LIGHTING FIXTURES, ELECTRICAL SWITCH BOXES, AND ELECTRICAL AND LOW-VOLTAGE (TELEPHONE/CABLE) OUTLET BOXES SHALL BE COMPLETELY BACK-PLASTERED WITH NON-HARDENING FIRESTOP PUTTY TO PREVENT SOUND TRANSMISSION THROUGH THE PENETRATION.

8. ALL MECHANICAL SERVICE PENETRATIONS IN THE WALLS SHALL HAVE ½ INCH OF CLEAR SPACE BETWEEN THE DUCT OR PIPE AND THE WALL STRUCTURE. THAT SPACE SHALL BE SEALED BY PACKING WITH A LAYER OF GLASS FIBER INSULATION FOR THE FULL DEPTH OF THE PENETRATION. BOTH SIDES OF THE PENETRATION SHALL BE SEALED AIR TIGHT USING NON-HARDENING RESILIENT ACOUSTIC SEALANT PER ASTM C919. AN ANNULAR METAL SLEEVE, ATTACHED USING NON-HARDENING RESILIENT SEALANT, SHALL BE USED FOR PENETRATION GAPS OVER 1 INCH.

9. PROVIDE SOUND ATTENUATION BATTS & ACOUSTIC SEALANT AT BOTH SIDES OF STRUCTURAL BRACING LOCATIONS AND VERTICAL RETRACTING PARTITIONS (STC 53).

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WALL TYPES

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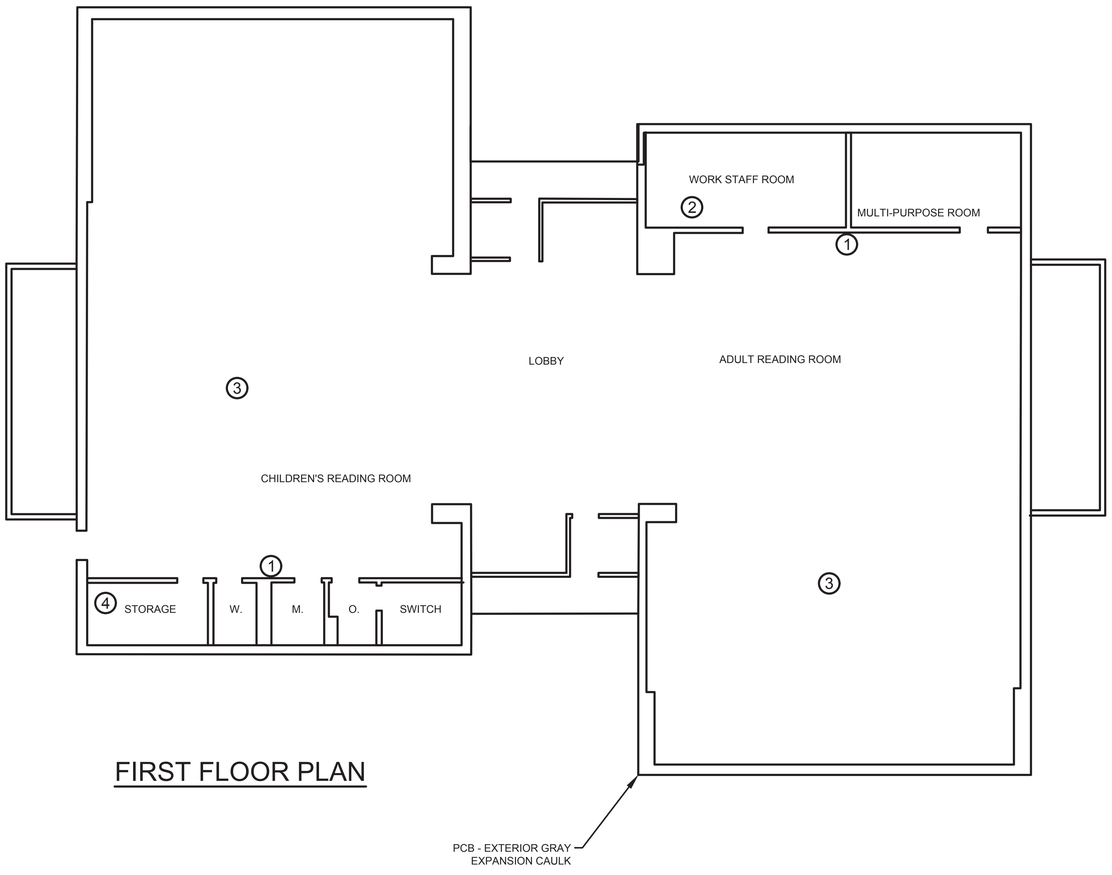
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

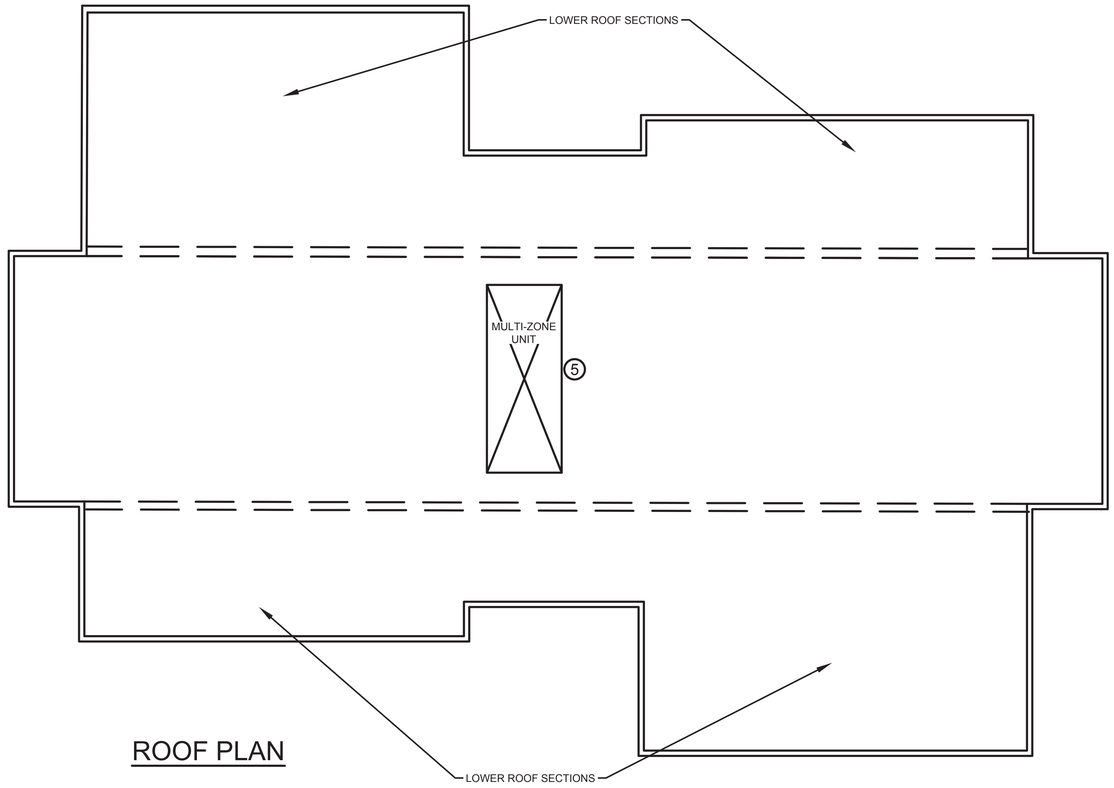
ISSUE DATES

NO.	DATE	PURPOSE

A0.03



FIRST FLOOR PLAN



ROOF PLAN

LEGEND:

Plan #	Material Description	Location
①	Joint Compound	Interior Walls
②	Black Sink Undercoating	Break Room Sink
③	Carpet Adhesive (with Residual Brown Floor Mastic)	Floor Beneath Carpeting (Green)
④	12"x12" Gray Mottle Floor Tile	Storage Room Floor
	Black Mastic associated with 12"x12" Gray Mottle Floor Tile	
⑤	Vent Mastic (Black)	Main Roof - Center (Lower Near HVAC Unit)

0' 10' 20'

SLR
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BEDFORD, NH 03110
603.668.7654
SANBORN@SLRINTL.COM

REVISIONS

SAMPLING LOCATION PLAN

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SCALE

APRIL 15, 2022
DATE

144.12571.00015
PROJECT NO.

2
SHEET NO.

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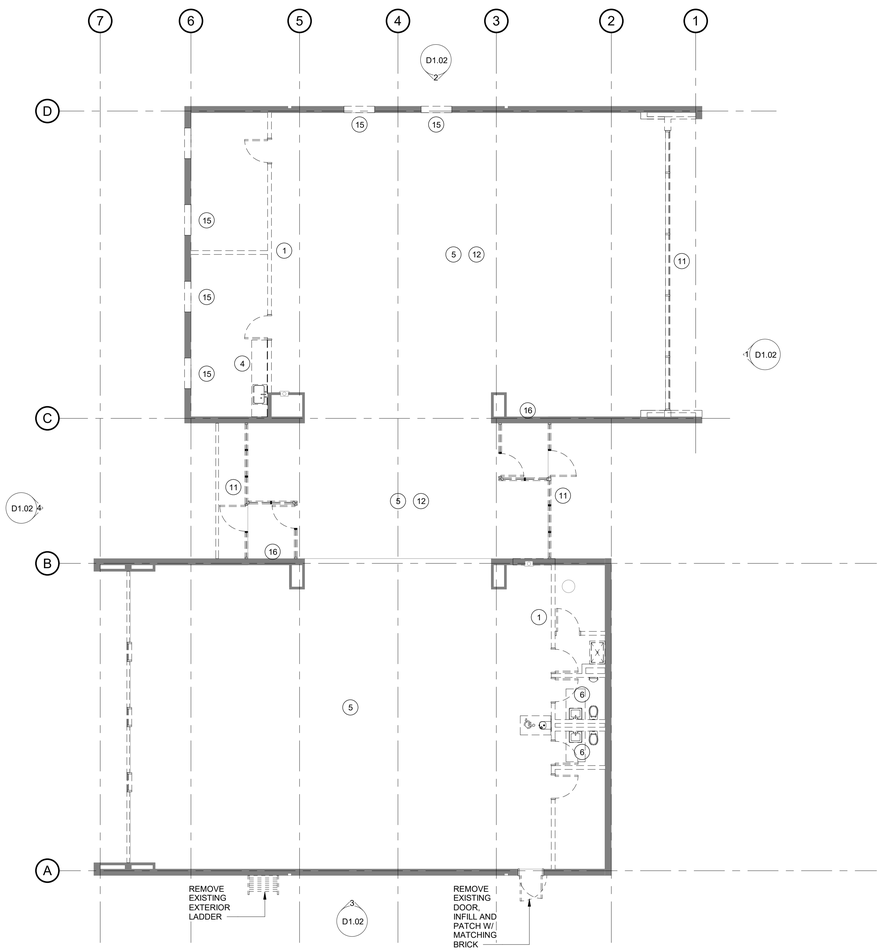
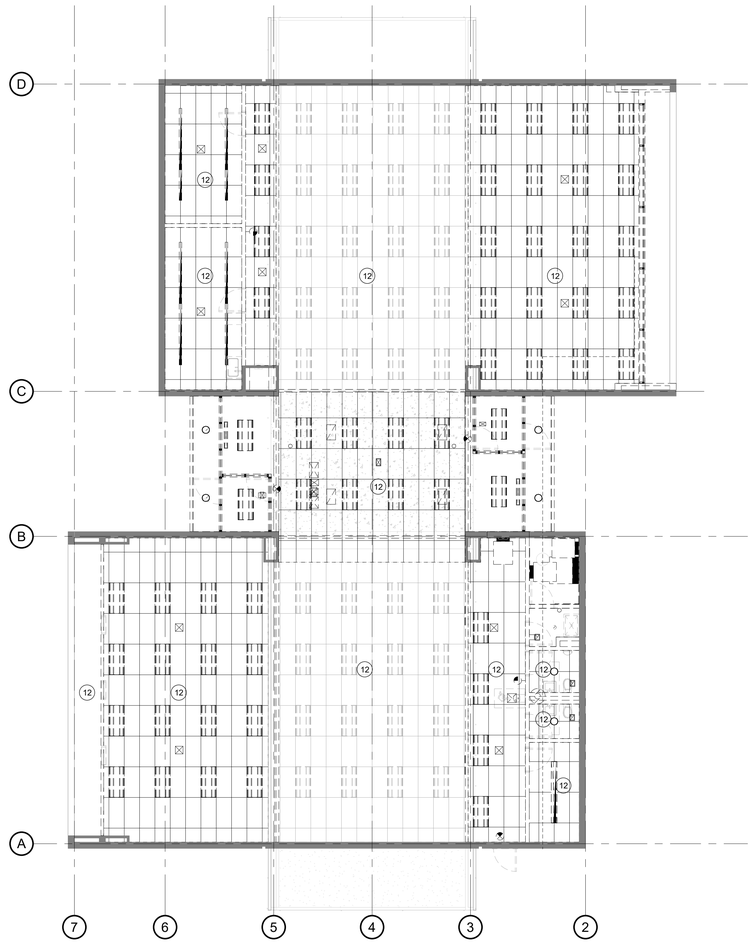


1 FIRST FLOOR PLAN - Demo
1/8" = 1'-0"



2 FIRST FLOOR REFLECTED CEILING PLAN - DEMO
1/8" = 1'-0"

GENERAL DEMO NOTES

1. SEE MECH. / ELEC. / PLUMBING / ABATEMENT DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION, TRENCHING, AND CUTTING RELATED TO NEW M.E.P SYSTEMS.

2. ALL INFORMATION ON DEMOLITION PLANS HAVE BEEN COMPLETED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND COORDINATE DEMOLOTION WITH WITH ALL NEW CONSTRUCTION AND WITH ALL TRADES. NO ATTEMPT HAS BEEN MADE TO ILLUSTRATE ALL REQUIRED DEMOLITION. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL DEMOLITION NECESSARY TO COMPLETE THE WORK.

3. PROVIDE STEEL LINTELS PER STRUCTURAL DWGS AT NEW OPENINGS IN EXISTING MASONRY WALLS AS REQUIRED.

4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH & REPAIR ALL EXISTING WORK DISTURBED BY DEMOLITION ACTIVITIES IN A MANNER THAT RESULT IN A COMPLETE AND FINISHED PRODUCT. THIS PATCH & REPAIR INCLUDES ALL FINISHES NEEDED TO MATCH ADJACENT SURFACES.

5. IF A WALL OR SURFACE HAS BEEN WORKED ON, THAT WALL OR SURFACE SHALL BE PATCHED & REPAIRED WITH A COMPLETE FINISH, TO THE NEAREST CORNER, CHANGE OF PLANE OR OTHER JUNCTURE WHICH ALLOWS FOR SMOOTH & CLEAN TRANSITION FROM NEWLY FINISHED SURFACE TO THE SURROUNDING EXISTING SURFACE; i.e., THE INTENT IS TO ELIMINATE THE APPERANCE OF A PATCHED CONDITION.

6. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLOTION WORK. MECHANICAL, ELECTRICAL, AND OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PERFORMED WHETHER SO NOTED OR NOT.

7. PATCH AND REPAIR ANY EXISTING CEILING, FLOORING AND/OR WALL FINISHES DAMAGED DURING THE INSULATION OF NEW WALL, PIPING, DUCTWORK, OR UNDER THIS PROJECT.

8. DEMO INCLUDE FULL TEAR UP OF ROOF DOWN TO EXISTING STRUCTURE

DEMOLITION KEYNOTES

1. REMOVE WALL AS INDICATED
2. REMOVE DOOR AND FRAME
3. REMOVE WINDOW
4. REMOVE CASEWORK
5. REMOVE FLOORING DOWN TO CONCRETE SLAB REMOVE BASE
6. REMOVE PLUMBING FIXTURE, CAP ASSOCIATED PIPING AT NEAREST MAIN, SEE PLUMBING DEMO DWGS
7. REMOVE MARKER BOARD AND TURN OVER TO THE OWNER
8. REMOVE BULLETIN BOARD AND TURN IT OVER TO THE OWNER
9. REMOVE SMART BOARD AND TURN IT OVER TO THE OWNER
10. REMOVE TV AND TV MOUNT, AND TURN IT OVER TO THE OWNER
11. REMOVE CURTAIN WALL FRAME AND GLASS
12. REMOVE CEILING, LIGHTS AND FIXTURES
13. REMOVE LOCKERS
14. REMOVE KITCHEN EQUIPMENTS
15. CREATE OPENINGS WITHIN EXISTING MASONRY WALLS FOR WINDOWS, SALVAGE BRICK
16. REMOVE THROUGH WALL BOOKDROP

DEMOLITION PLAN LEGEND

- (1) KEYED DEMOLITION NOTE SYMBOL
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING AREAS WHERE DEMOLITION WORK TO BE DONE

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PROJECT

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DRAWING TITLE

DEMO FIRST FLOOR PLAN AND DEMO RCP

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

D1.01

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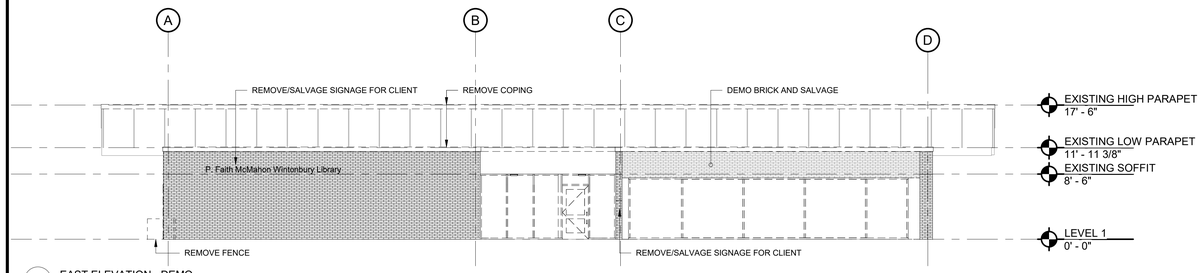
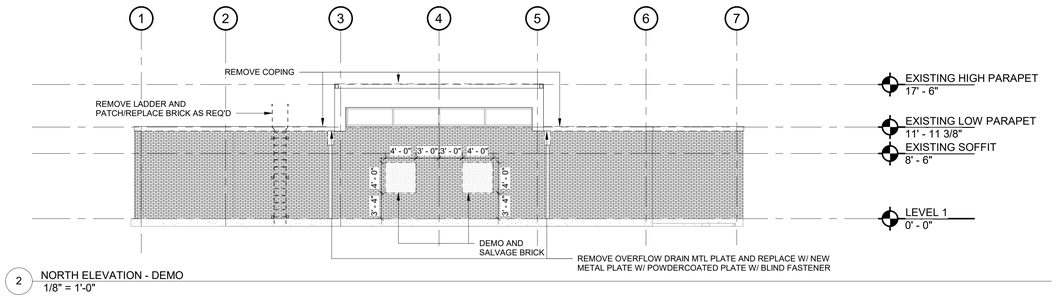


1 EAST ELEVATION - DEMO
1/8" = 1'-0"



2 NORTH ELEVATION - DEMO
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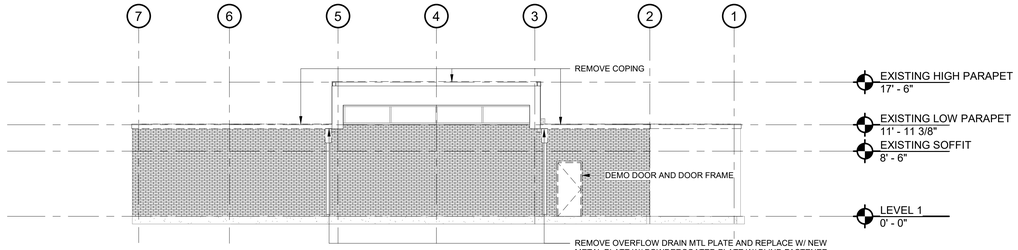

3 SOUTH ELEVATION - DEMO
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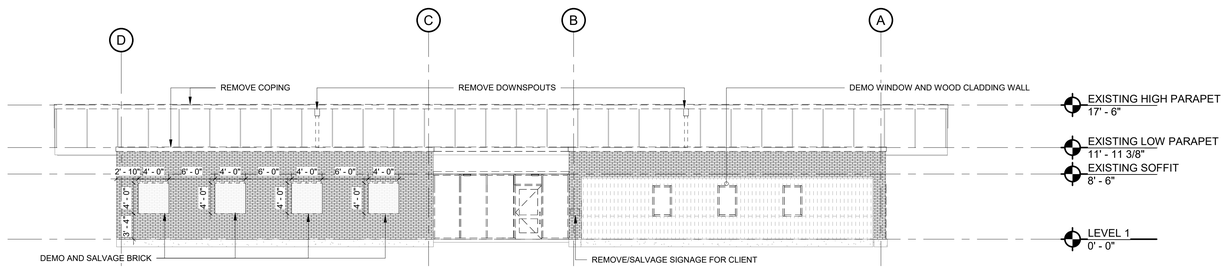

4 WEST ELEVATION - DEMO
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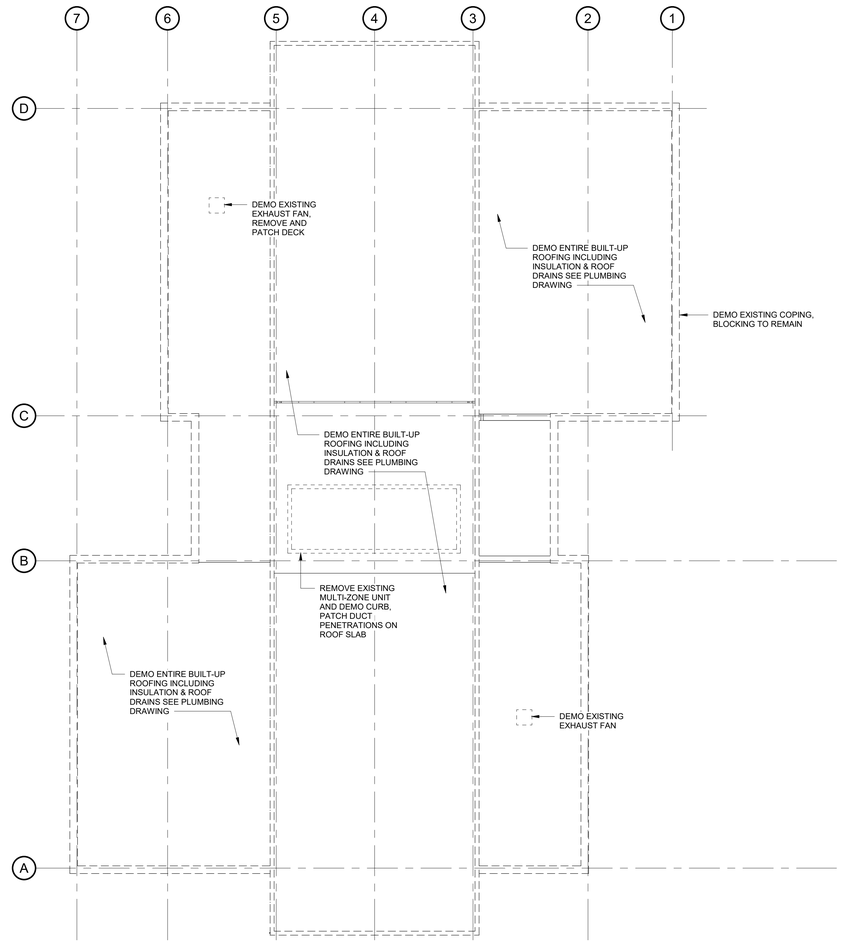

5 ROOF DEMO PLAN
1/8" = 1'-0"

GENERAL DEMO NOTES

1. SEE MECH. / ELEC. / PLUMBING / ABATEMENT DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION, TRENCHING, AND CUTTING RELATED TO NEW M.E.P SYSTEMS.

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3. PROVIDE STEEL LINTELS PER STRUCTURAL DWGS AT NEW OPENINGS IN EXISTING MASONRY WALLS AS REQUIRED.

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6. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLOTION WORK. MECHANICAL, ELECTRICAL, AND OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PERFORMED WHETHER SO NOTED OR NOT.

7. PATCH AND REPAIR ANY EXISTING CEILING, FLOORING AND/OR WALL FINISHES DAMAGED DURING THE INSULATION OF NEW WALL, PIPING, DUCTWORK, OR UNDER THIS PROJECT.

8. DEMO INCLUDE FULL TEAR UP OF ROOF DOWN TO EXISTING STRUCTURE

9. FOR ALL EXTERIOR CONTROL JOINTS THAT ARE SILICONED, REMOVE SILICON AND REPLACE WITH NEW.

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DRAWING TITLE

DEMO ROOF PLAN & DEMO EXTERIOR ELEVATIONS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
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APPROVED BY	Approver

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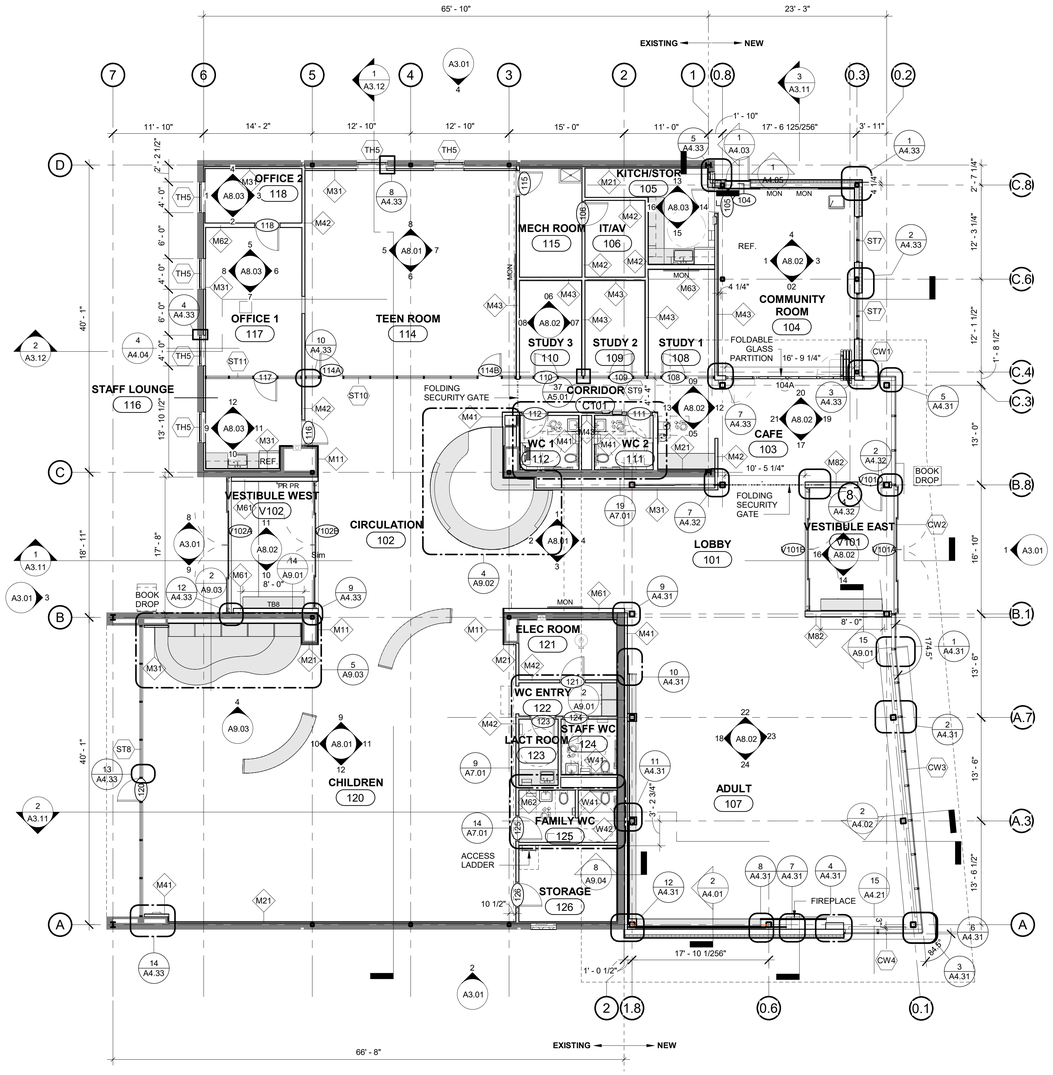
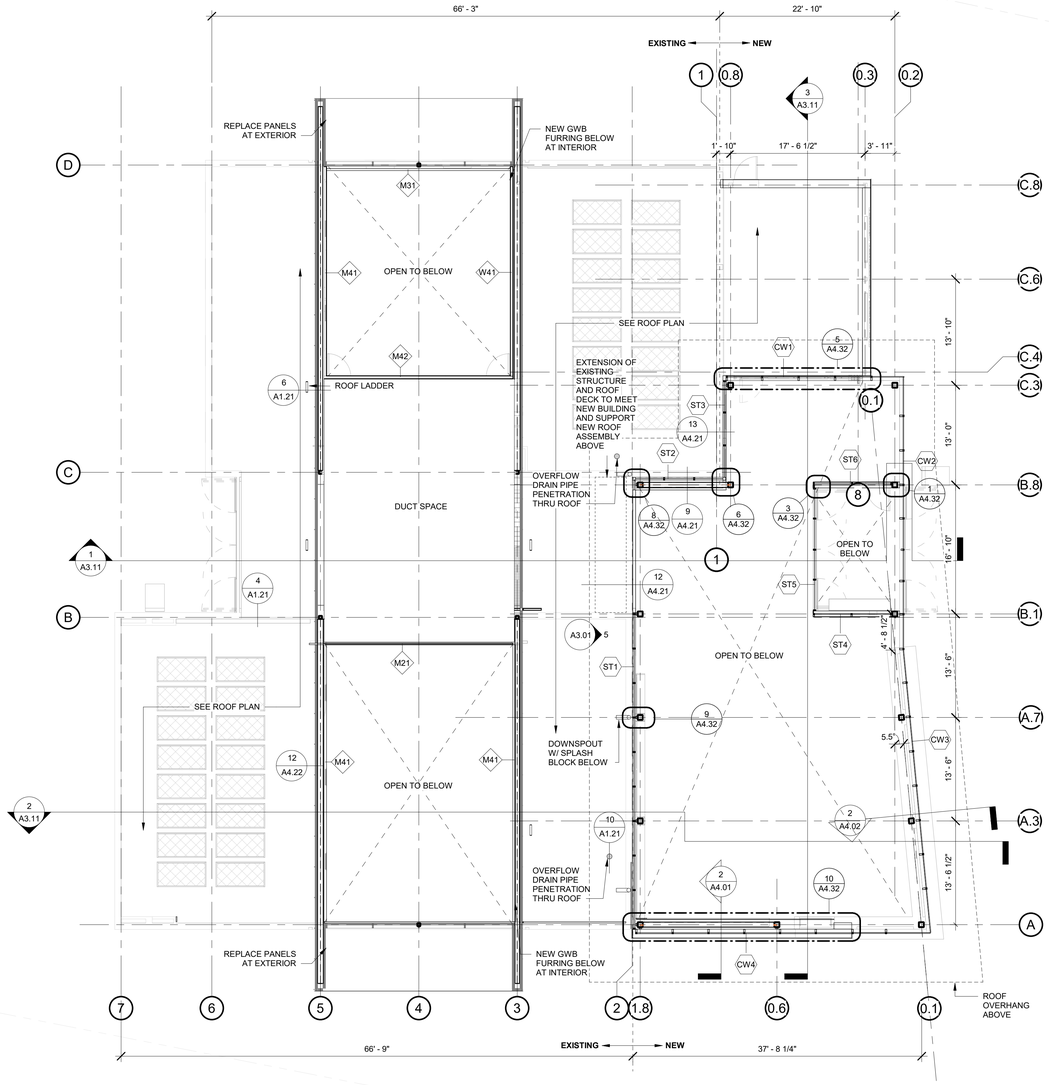


1 FIRST FLOOR PLAN
1/8" = 1'-0"



2 CLERESTORY PLAN
1/8" = 1'-0"

GLAZING NOTES:

1. ALL INTERIOR GLAZING TO BE TEMPERED GLASS UNLESS OTHERWISE NOTED.
2. INTERIOR GLAZING AT OFFICES SHALL HAVE 1/2" LAMINATED GLASS.
3. **GL-1** = 1/4" LAMINATED GLASS (BOTH SIDES) +1/2" AIR SPACE

PLAN LEGEND

- NEW CONSTRUCTION
- EXISTING BUILDING
- MILLWORK

GENERAL NOTES

1. ALL PARTITIONS SHALL BE TYPE M42 UNLESS OTHERWISE NOTED. M42 CONSISTS OF 2 LAYERS 5/8" GYP BD, 3-5/8" MET STUD @ 16" OC & 3-1/2" SOUND ATTENUATION BATTS.
2. ALL PARTITIONS SHALL RUN TO THE UNDERSIDE OF DECK OR BEAM ABOVE.
3. AREAS IN SHADED GREY ARE MILLWORK.

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FIRST FLOOR PLAN AND CLERESTORY PLAN

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PROJ. NO.	220103
SCALE	As indicated
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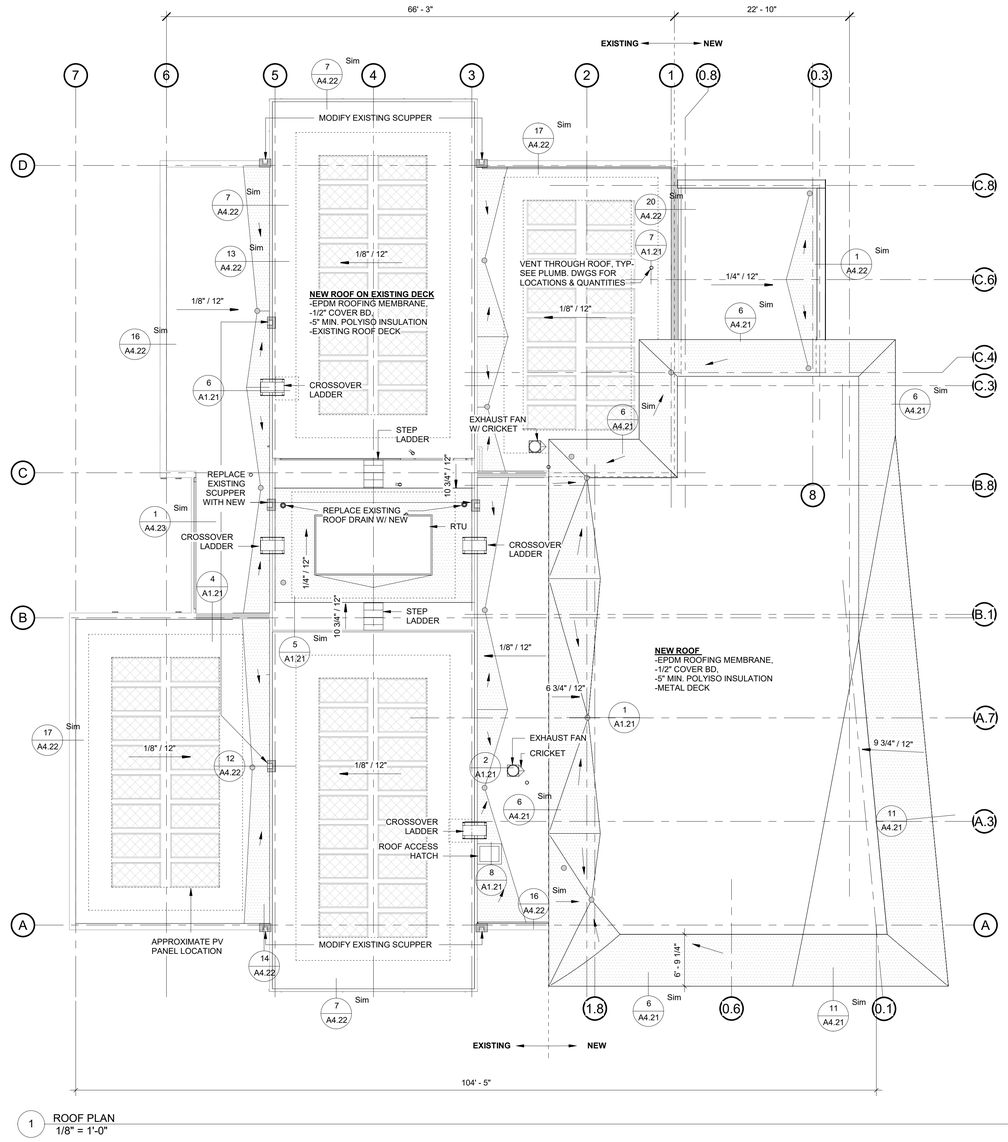

1 ROOF PLAN
1/8" = 1'-0"

ROOF LEGEND

- EPDM ROOFING ON RIGID INSULATION
- EPDM ROOFING ON ROOF CRICKET OR SADDLE
- ROOF DRAIN IN EXISTING DRAIN LOCATION
- ROOF DRAIN - SEE PLUMBING DWGS FOR TYPES
- VENT TRHU ROOF
- LINE OF WALKWAY PAD
- EXPANSION JOINT

ROOF NOTES

1. LOCATION OF ALL ROOF DRAINS (EXISTING OR NEW) SHALL BE FIELD VERIFIED.
2. PROVIDE CONT. WOOD BLOCKING AT ROOF DECK FLUTES AND ON ROOF DECK TO SUPPORT INSULATION, ROOF PARAPET FRAMING, MECHANICAL UNIT CURBS WHERE REQUIRED. (VIF)

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ROOF PLAN

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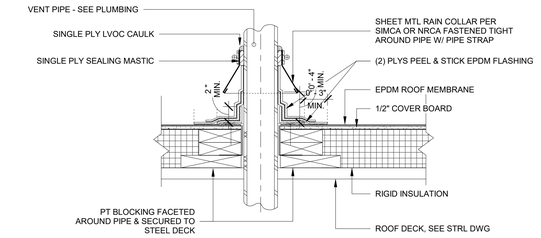
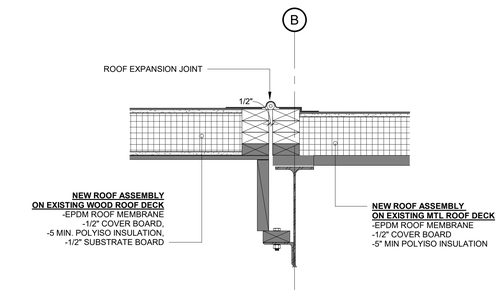
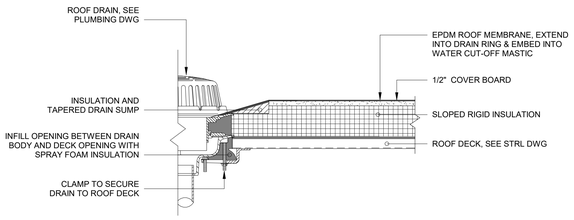


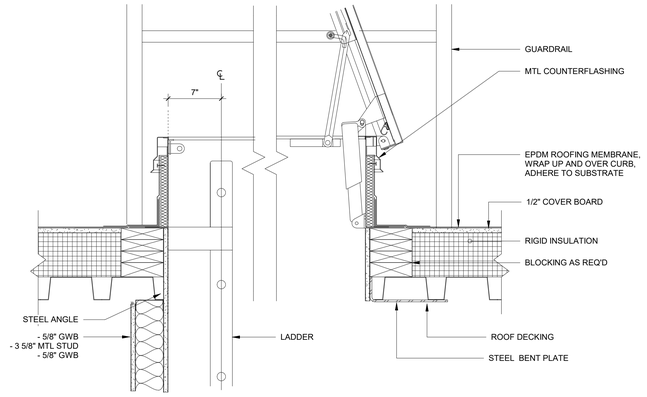
7 TYP. ROOF VENT DETAIL
1 1/2" = 1'-0"



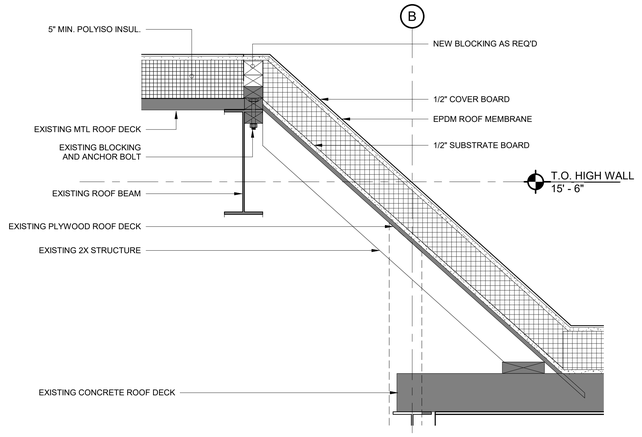
4 EXISTING WD DECK AND METAL DECK ROOF EXPANSION JOINT
1 1/2" = 1'-0"



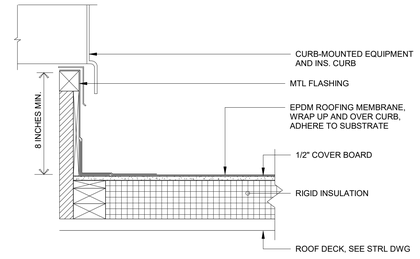
1 TYP. ROOF DRAIN DETAIL
1 1/2" = 1'-0"



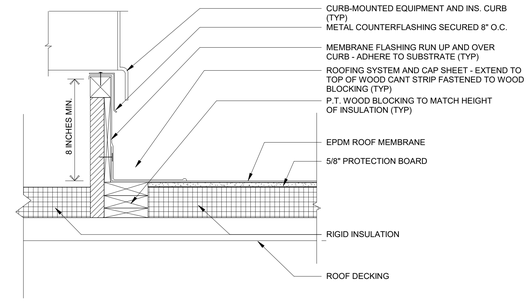
8 ROOF HATCH DETAIL
1 1/2" = 1'-0"



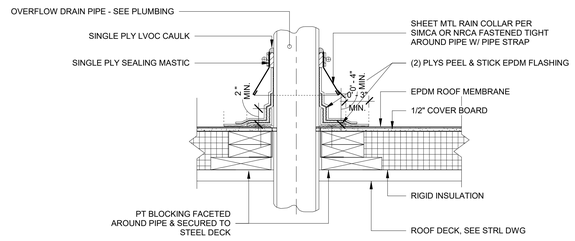
5 EXISTING HIGH ROOF RECESS DETAIL
1 1/2" = 1'-0"



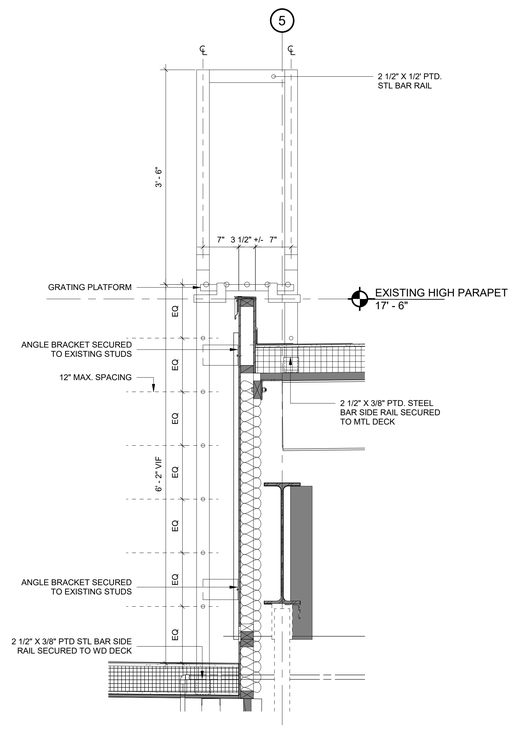
2 TYP. MECHANICAL CURB FLASHING DETAIL
1 1/2" = 1'-0"



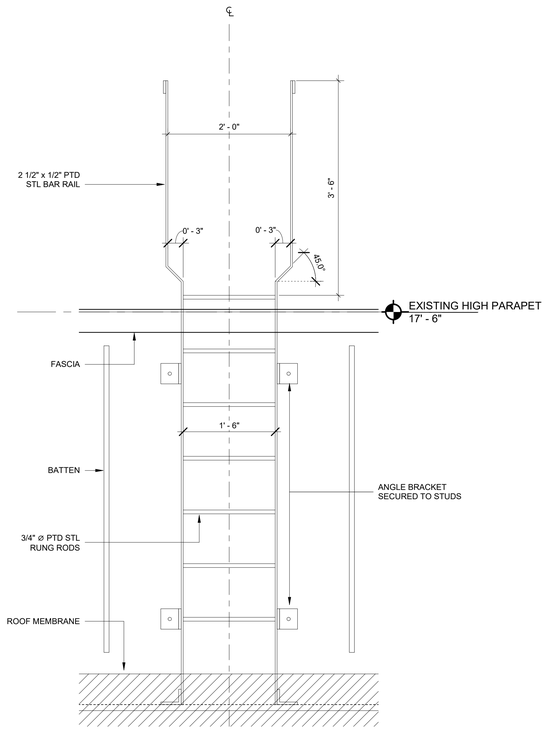
9 MECHANICAL CURB FLASHING DETAIL 2
1 1/2" = 1'-0"



10 DRAIN PIPE PENETRATION FLASHING DETAIL
1 1/2" = 1'-0"



6 TYP. ROOF LADDER SECTION
1" = 1'-0"



3 TYP. ROOF LADDER ELEVATION
1" = 1'-0"

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PROJECT

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ROOF DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
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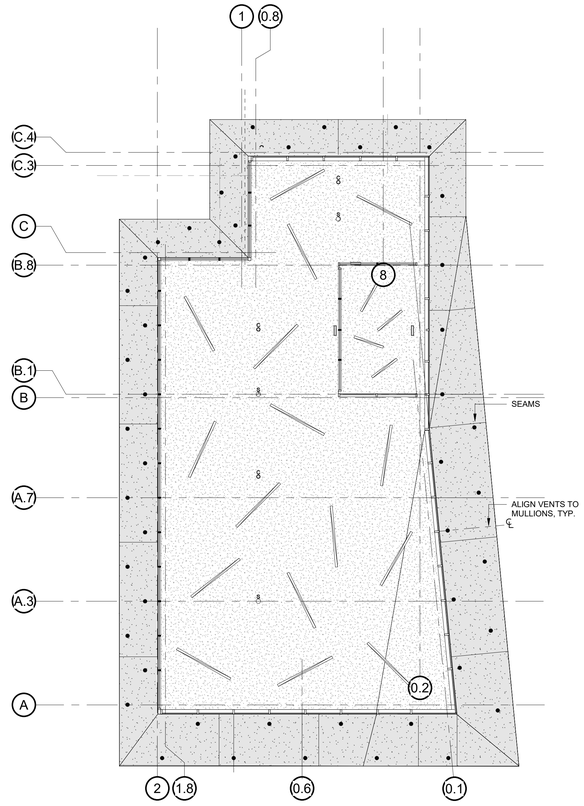
ISSUE DATES

NO.	DATE	PURPOSE

A1.21

2/15/2023 3:39:33 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt

1 FIRST FLOOR RCP
1/8" = 1'-0"



2 FIRST FLOOR RCP - OVERHANG
1/8" = 1'-0"

CEILING LEGEND

- 2X2 ACT-1
- 2X2 ACT-2
- GWB
- D.E.F.S REINFORCED CEMENT BOARD
- ACOUSTIC GWB
- ACOUSTIC PET
- ACP ON GWB CEILING
- WOOD GRILLE CEILING ACT-3
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- CEILING MOUNTED CAMERA
- CIRCLE CEILING MOUNTED SPEAKER
- SOFFIT VENT
- SMOKE DETECTOR
- OCCUPANCY SENSOR

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FIRST FLOOR RCP

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NO.	DATE	PURPOSE

A2.01

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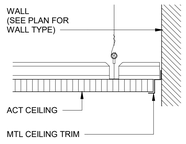
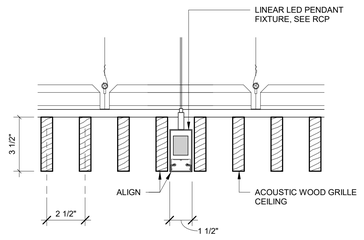
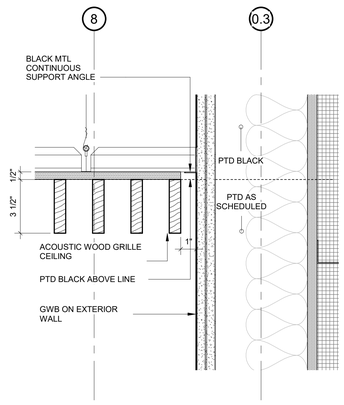


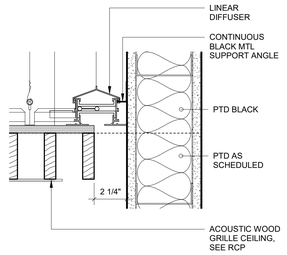
17 ACT CEILING AT WALL (TYP.)
3" = 1'-0"



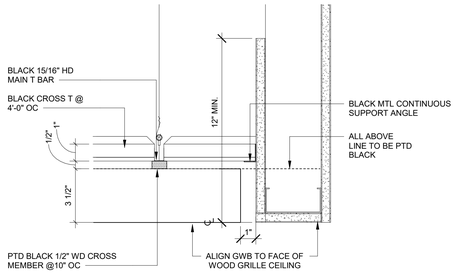
13 SECTION DETAIL @ LED FIXTURE TYP.
3" = 1'-0"



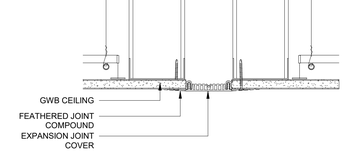
9 SECTION DETAIL @ COMMUNITY ROOM 2
3" = 1'-0"



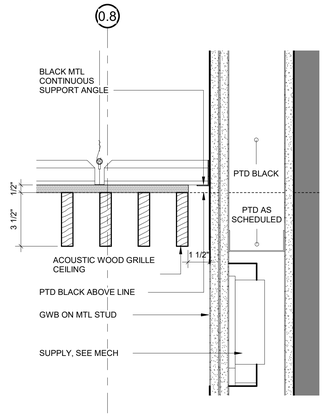
5 SECTION DETAIL WOOD CEILING @ TEEN ROOM
3" = 1'-0"



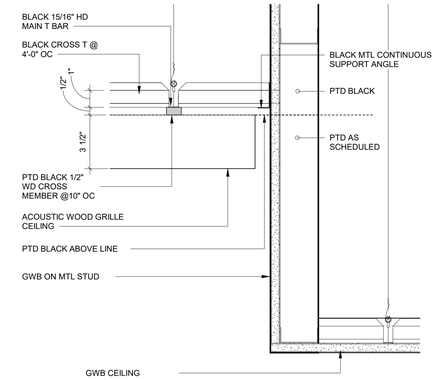
1 SECTION DETAIL WOOD CEILING @ CIRCULATION
3" = 1'-0"



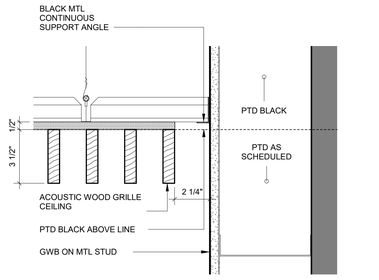
14 SECTION DETAIL - GWB SOFFIT - GWB / WALL
3" = 1'-0"



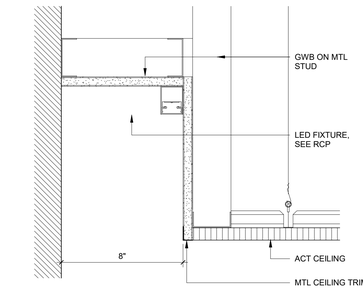
10 SECTIOND DETAIL WOOD CEILING @ COMMUNITY
3" = 1'-0"



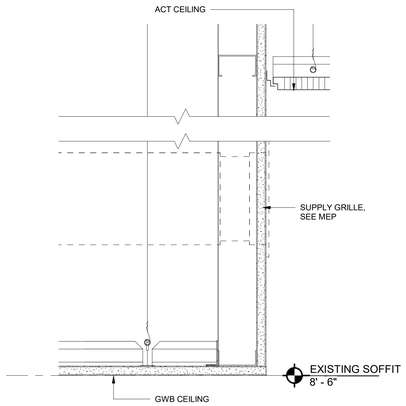
6 SECTION DETAIL @ WOOD AND GWB SOFFIT
3" = 1'-0"



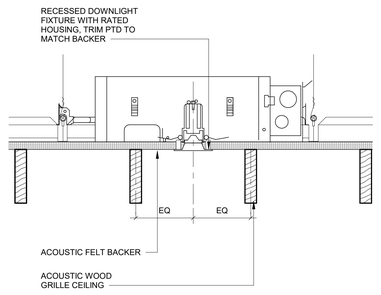
2 SECTION DETAIL @ CIRCULATION CEILING
3" = 1'-0"



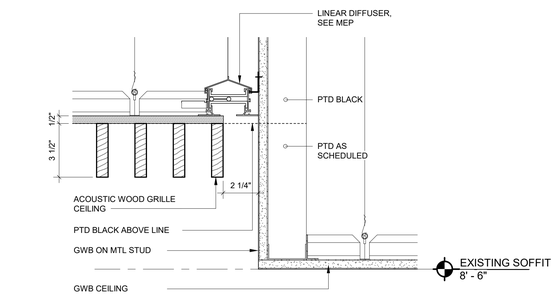
15 SECTION DETAIL LIGHT POCKET AT TOITLET
3" = 1'-0"



11 CEILING DETAIL @ CHILDREN'S ROOM
3" = 1'-0"

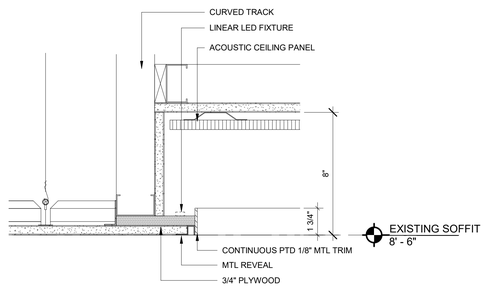


7 LIGHTING DETAIL @ CIRCULATION DESK
3" = 1'-0"

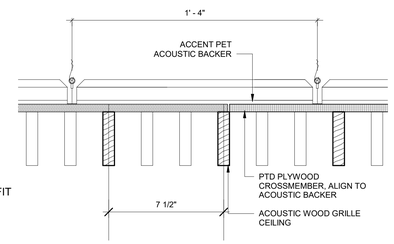


3 SECTION DETAIL WOOD CEILING TO GWB @ CHILDREN'S AREA
3" = 1'-0"

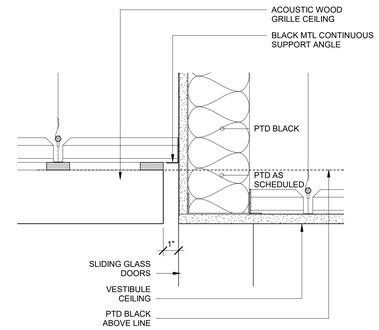
16 EXPANSION JOINT - GWB TO GWB
3" = 1'-0"



12 CHILDREN'S CIRCULAR COVE LIGHT SECTION
3" = 1'-0"



8 SECTION DETAIL CIRCULAR CEILING @ CIRCULATION DESK
3" = 1'-0"



4 SECTION DETAIL @ CIRCULATION VESTIBULE
3" = 1'-0"

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CEILING SECTION DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	3" = 1'-0"
DATE	02/06/2023
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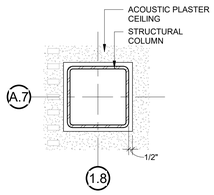
ISSUE DATES

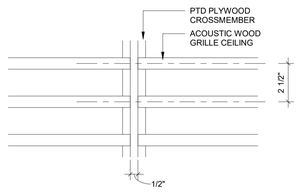
NO.	DATE	PURPOSE

A2.31

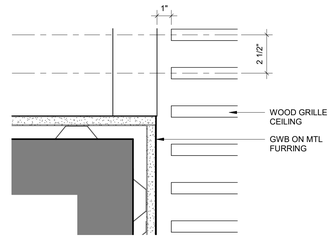
2/15/2023 4:08:03 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



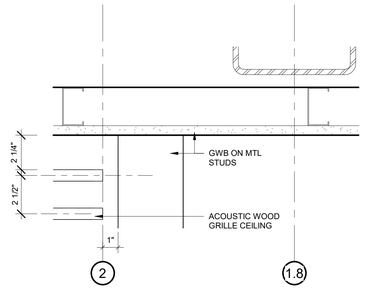
13 COLUMN RCP @ ACOUSTICAL PLASTER
1 1/2" = 1'-0"



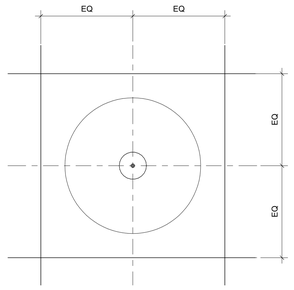
09 WOOD GRILLE CEILING SEAM DETAIL
3" = 1'-0"



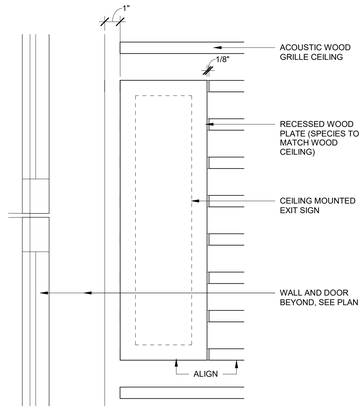
5 RCP DETAIL @ STAFF
3" = 1'-0"



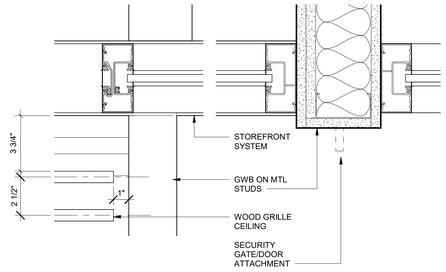
01 RCP DETAIL @ ART WALL
3" = 1'-0"



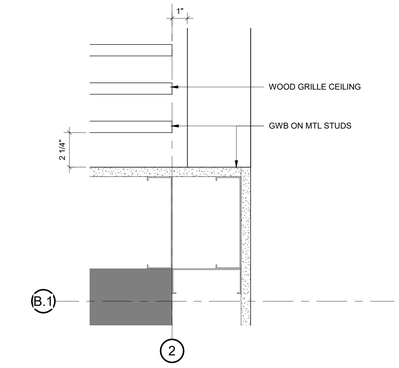
14 TYPICAL GLOBE PENDANT RCP DETAIL @ ACT
1 1/2" = 1'-0"



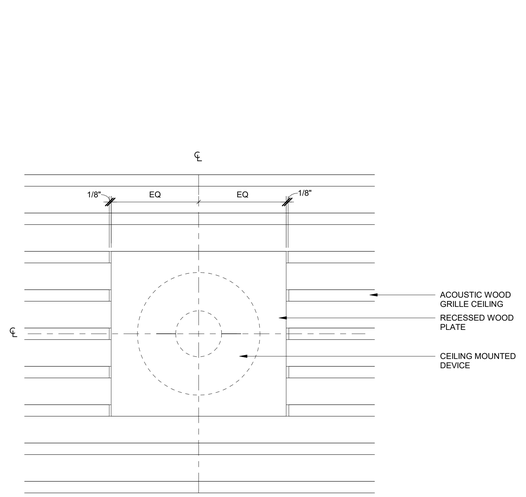
10 RCP PANEL DETAIL @ EXIT SIGN
3" = 1'-0"



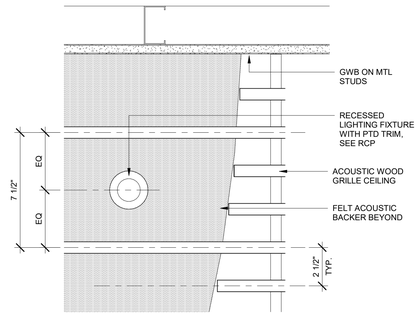
06 RCP DETAIL @ TEEN ROOM CW
3" = 1'-0"



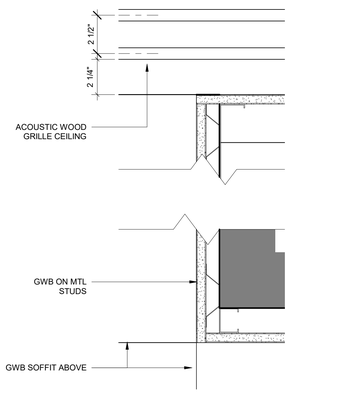
02 RCP DETAIL @ ADULT ROOM ENTRY
3" = 1'-0"



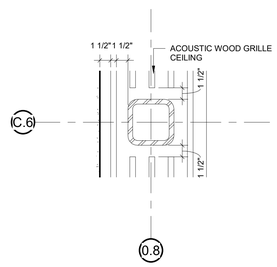
11 TYP CEILING MOUNTED DEVICE @ WOOD CEILING
3" = 1'-0"



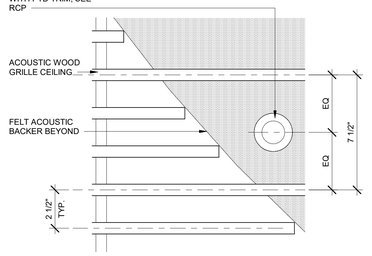
7 RCP DETAIL @ CIRCULATION DESK
3" = 1'-0"



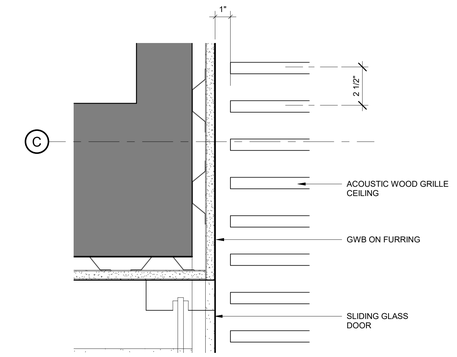
03 RCP DETAIL @ WOOD AND GWB
3" = 1'-0"



12 TYPICAL COLUMN LAYOUT @ WOOD CEILING
1 1/2" = 1'-0"



08 RCP DETAIL @ RECEPTION CEILING
3" = 1'-0"



4 CIRCULATION RCP DETAIL @ VESTIBULE
3" = 1'-0"

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DRAWING TITLE
RCP DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
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ISSUE DATES

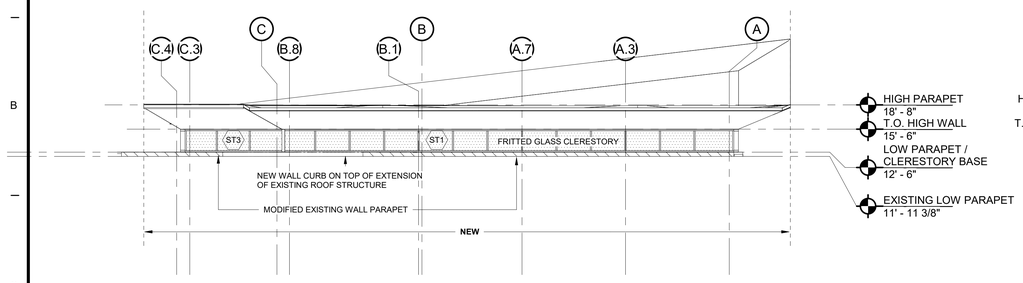
NO.	DATE	PURPOSE

A2.32

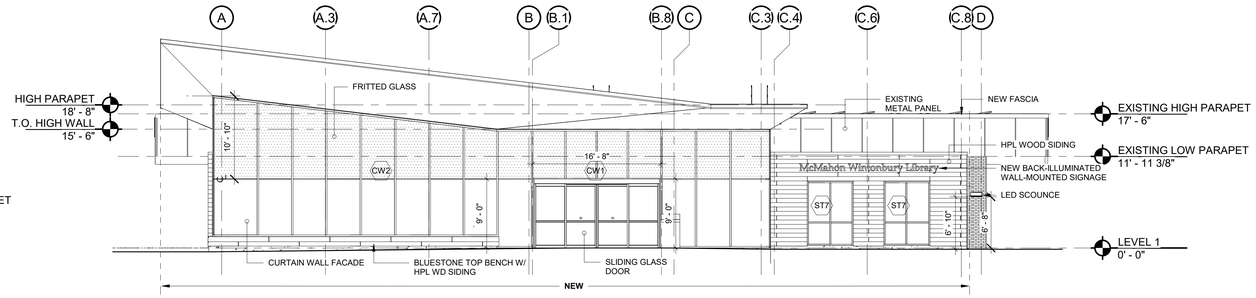
2/15/2023 4:08:08 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt

EXTERIOR ELEVATION NOTES:

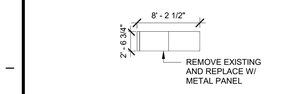
1. ALL EXTERIOR WINDOWS ARE STOREFRONT (ST) UNLESS OTHERWISE NOTED. REFER TO A0.01 FOR MORE INFORMATION.



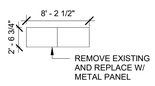
5 CLERESTORY WEST ELEVATION
1/8" = 1'-0"



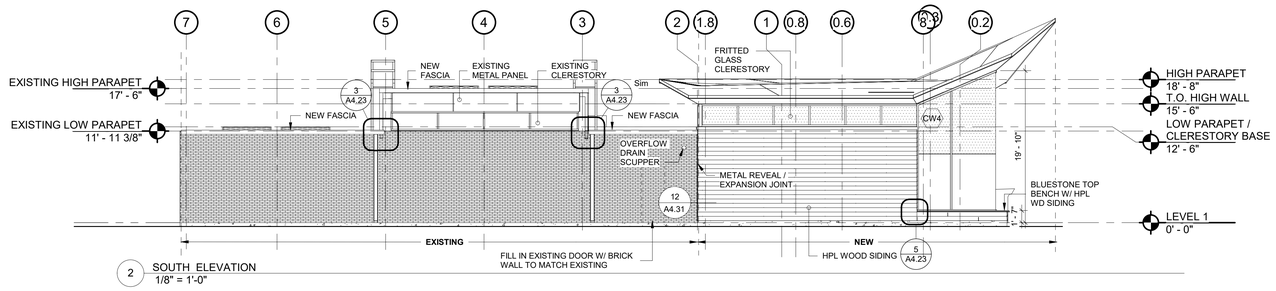
1 EAST ELEVATION
1/8" = 1'-0"



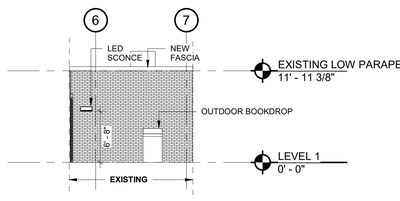
7 EXISTING OVERHANG STRUCTURE WEST SIDE ELEV. TYP.
1/8" = 1'-0"



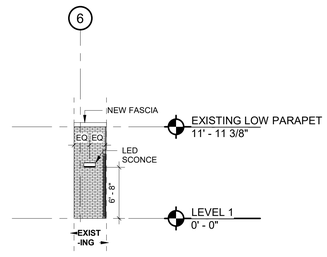
6 EXISTING OVERHANG STRUCTURE EAST SIDE ELEV. TYP.
1/8" = 1'-0"



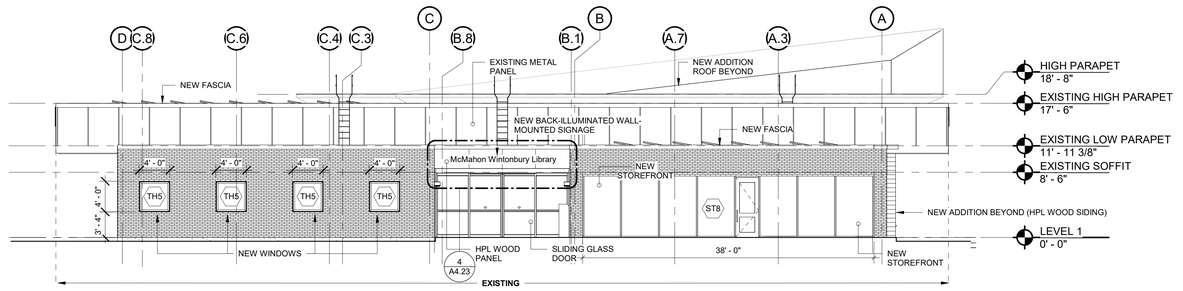
2 SOUTH ELEVATION
1/8" = 1'-0"



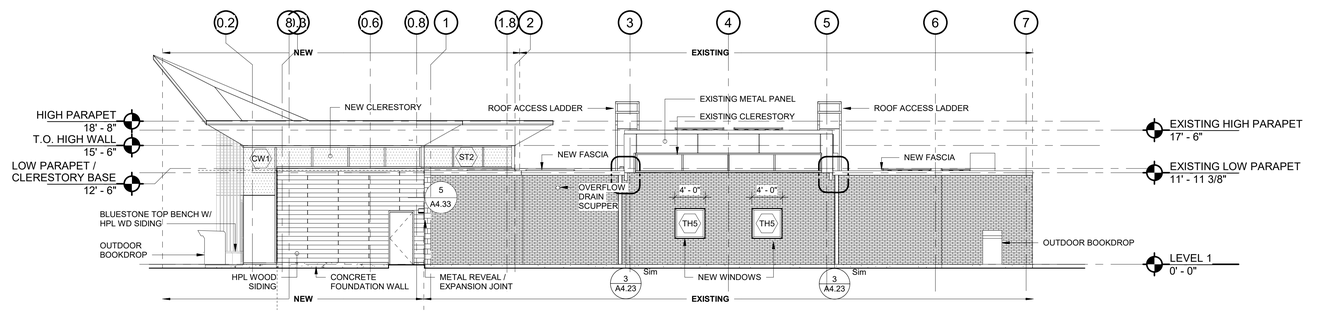
9 WEST VESTIBULE RECESS SOUTH ELEV.
1/8" = 1'-0"



8 WEST VESTIBULE RECESS NORTH ELEV.
1/8" = 1'-0"



3 WEST ELEVATION
1/8" = 1'-0"



4 NORTH ELEVATION
1/8" = 1'-0"

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PROJECT

CD SET

DRAWING TITLE

EXTERIOR ELEVATIONS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
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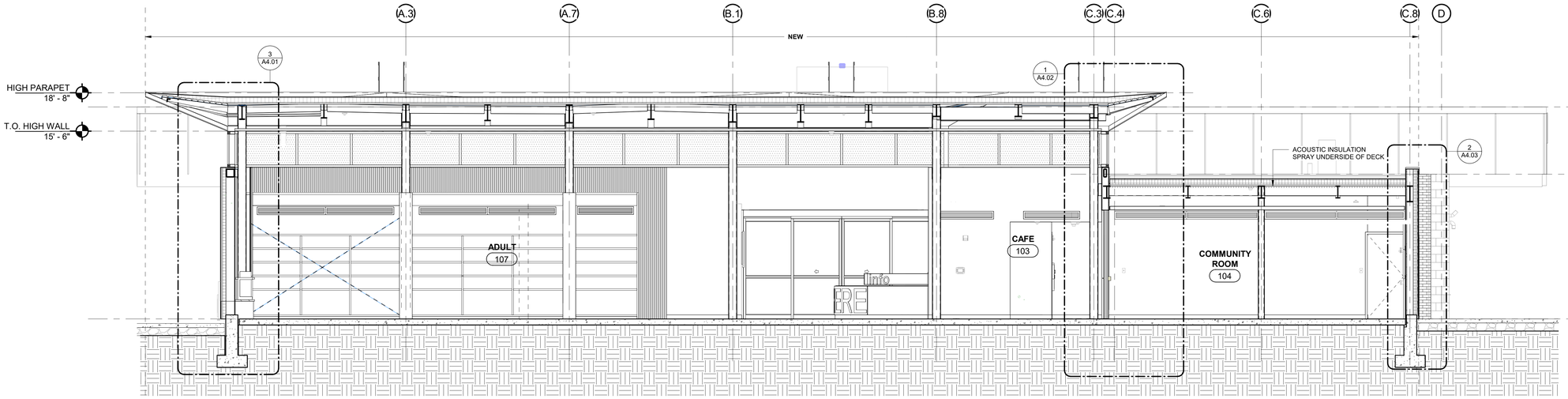
ISSUE DATES

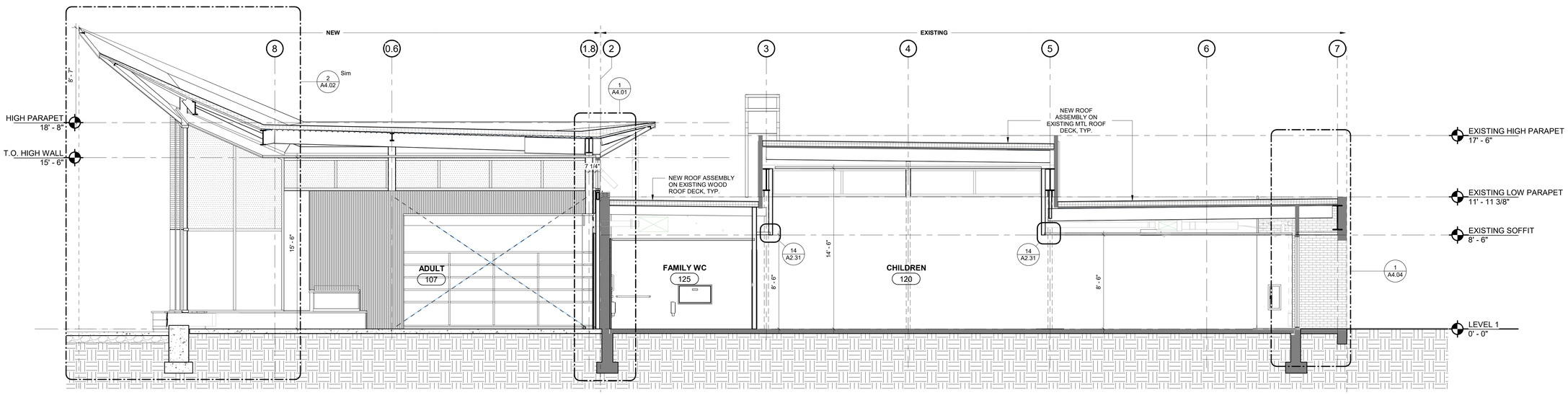
NO.	DATE	PURPOSE

A3.01

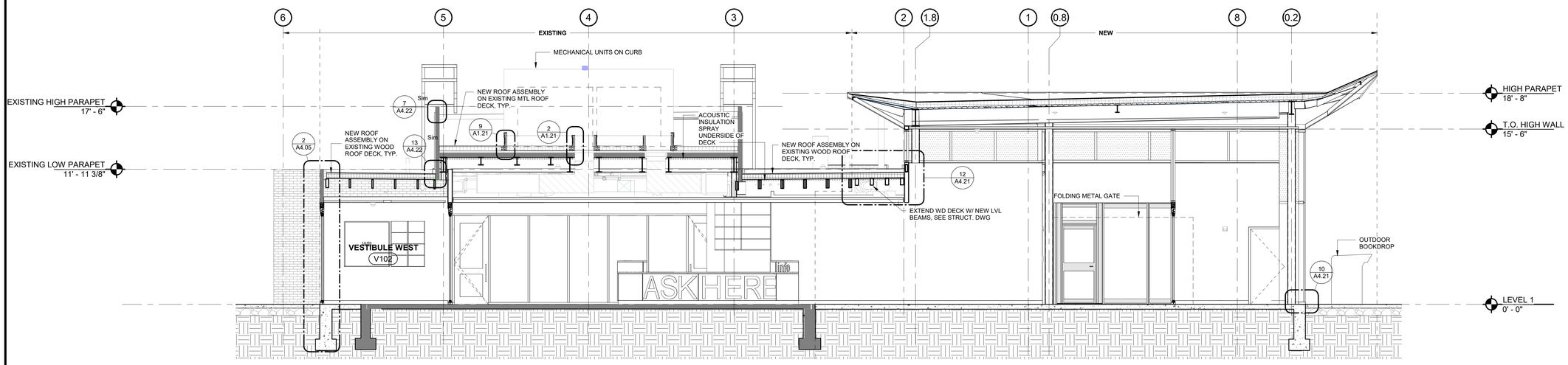
2/15/2023 3:30:40 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



3 SECTION ADULT SPACE/COMMUNITY ROOM
1/4" = 1'-0"



2 SECTION ADULT SPACE
1/4" = 1'-0"



1 SECTION CORRIDOR/RECEPTION
1/4" = 1'-0"

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PROJECT

CD SET

DRAWING TITLE

BUILDING SECTIONS - 1

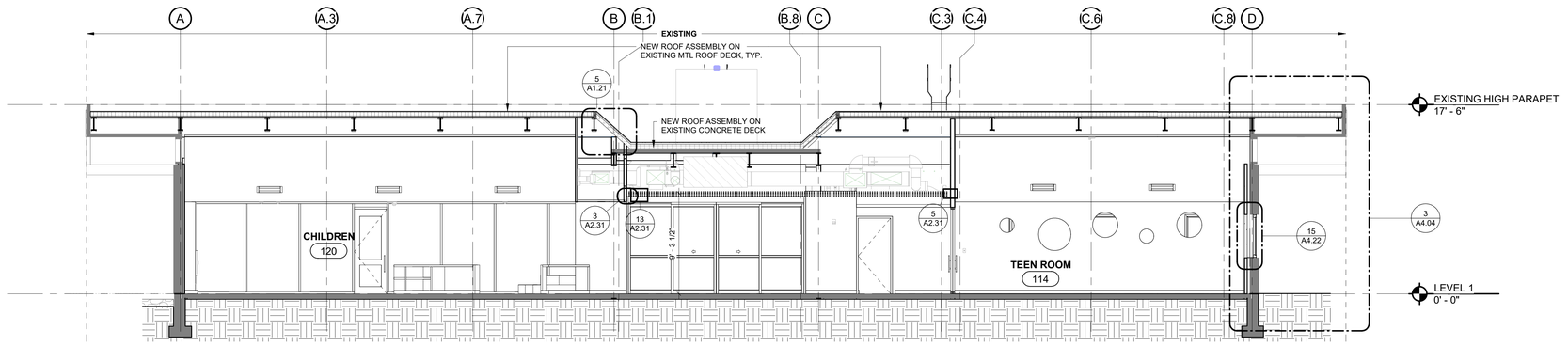
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

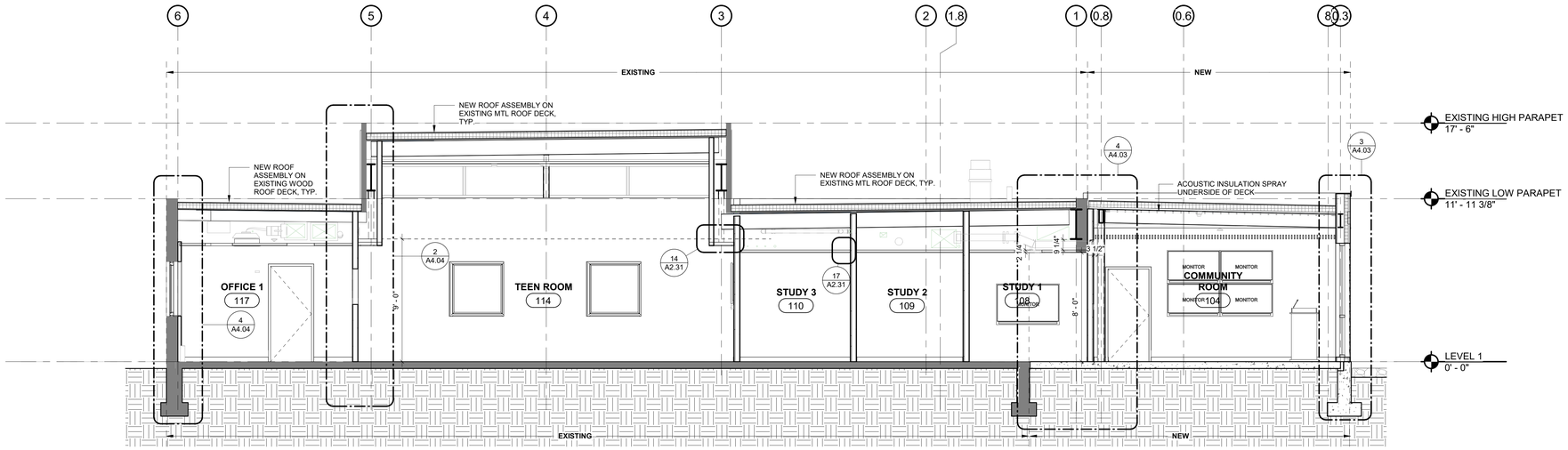
NO.	DATE	PURPOSE

A3.11

2/15/2023 3:21:52 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



1 SECTION CHILDRENS/TEENS
3/16" = 1'-0"



2 SECTION OFFICE/TEENS/COMMUNITY ROOM
1/4" = 1'-0"

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NO. 1891

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PROJECT

CD SET

DRAWING TITLE

BUILDING SECTIONS - 2

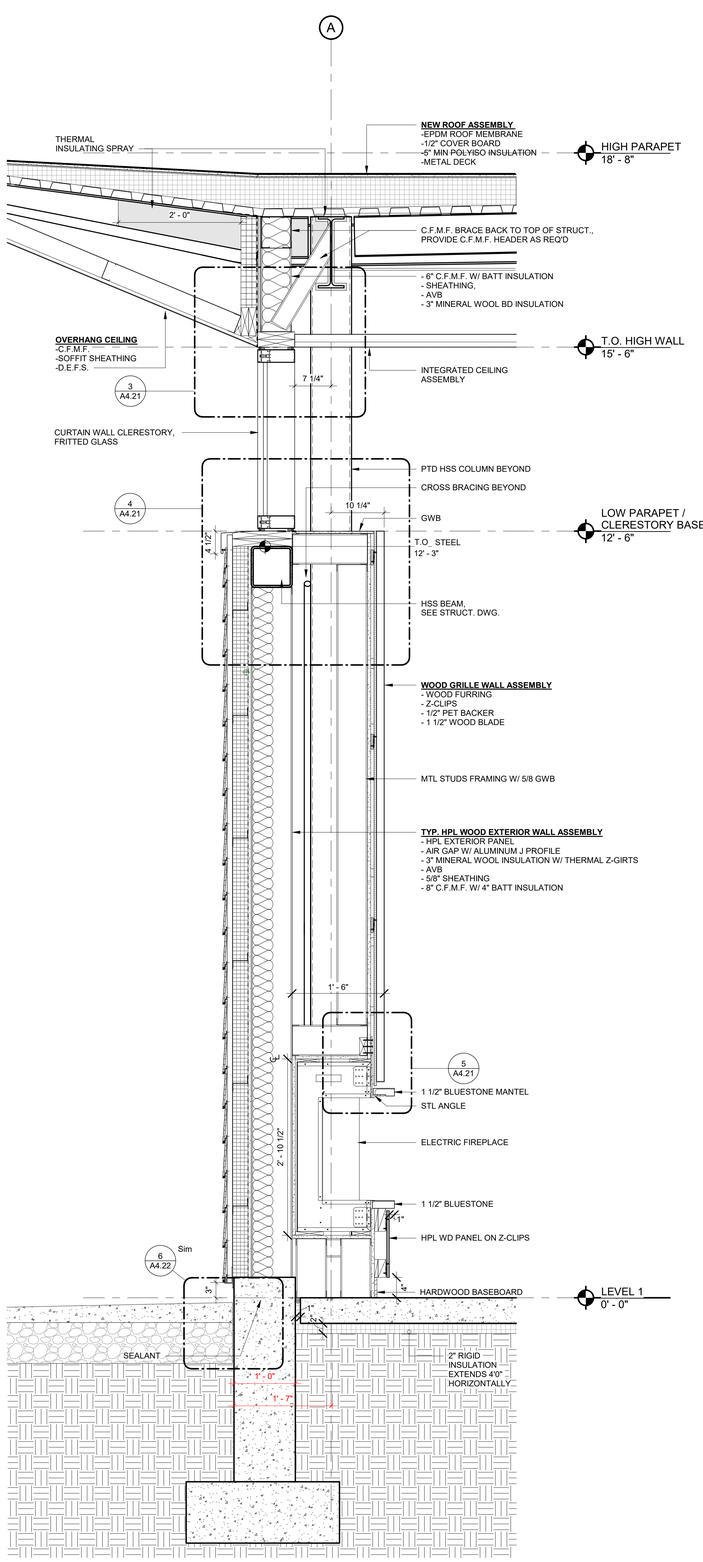
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

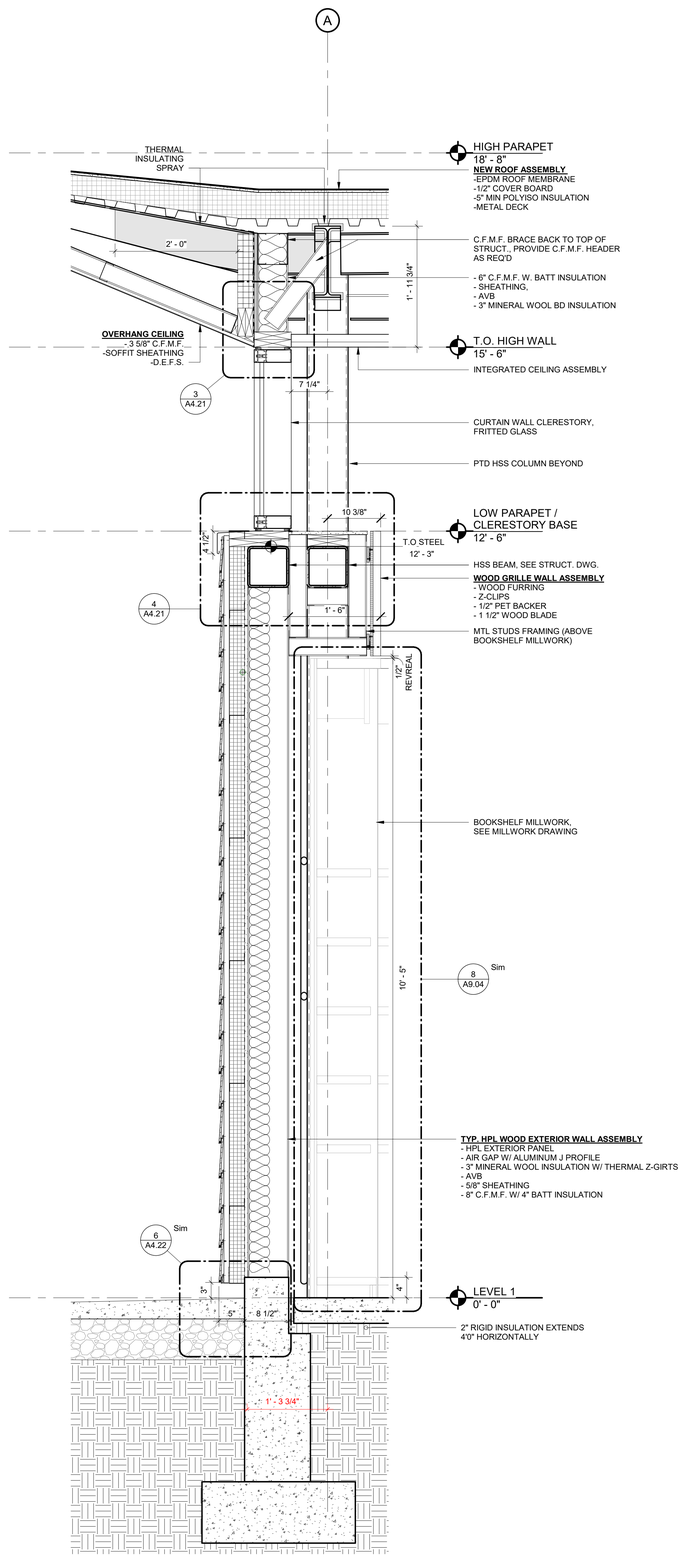
NO.	DATE	PURPOSE

A3.12

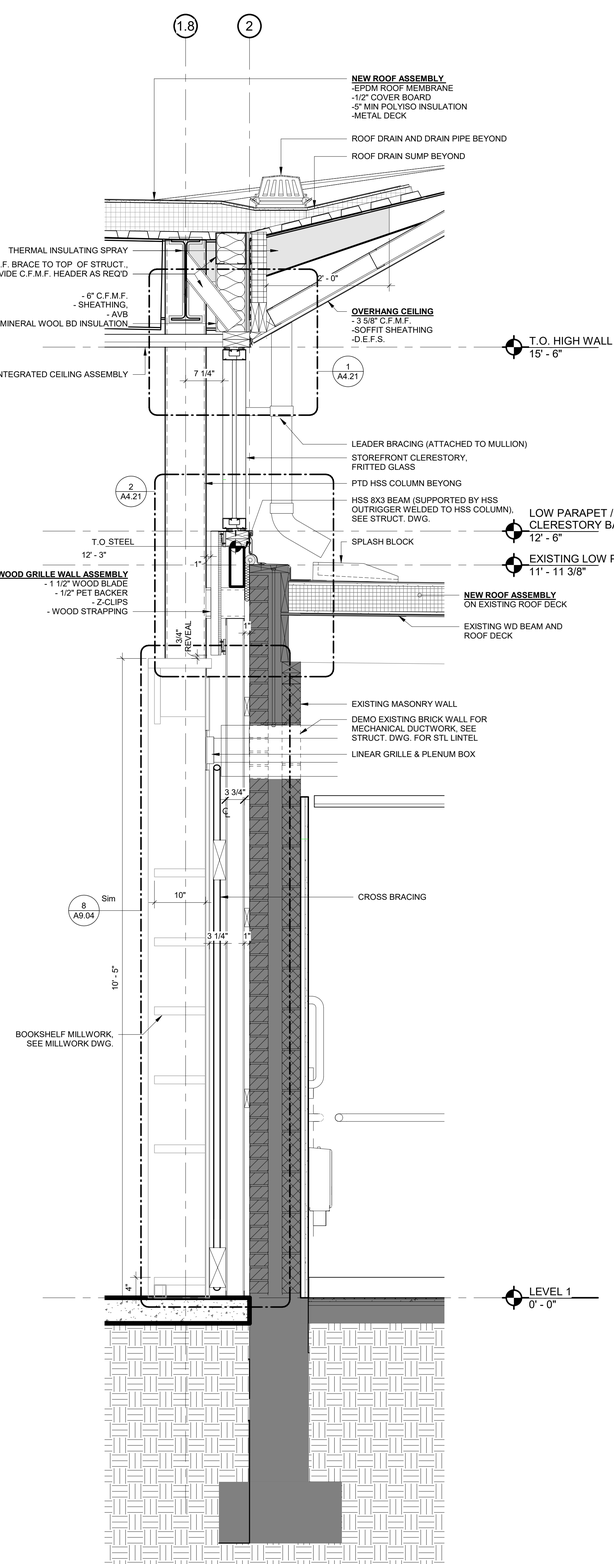
2/15/2023 3:23:38 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



3 ADULT ROOM EXTERIOR WALL AT FIREPLACE
1" = 1'-0"



2 ADULT ROOM BOOK SHELF WALL / NEW WALL
1" = 1'-0"



1 ADULT ROOM BOOK SHELF WALL / EXISTING BRICK WALL
1" = 1'-0"

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PROJECT

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DRAWING TITLE

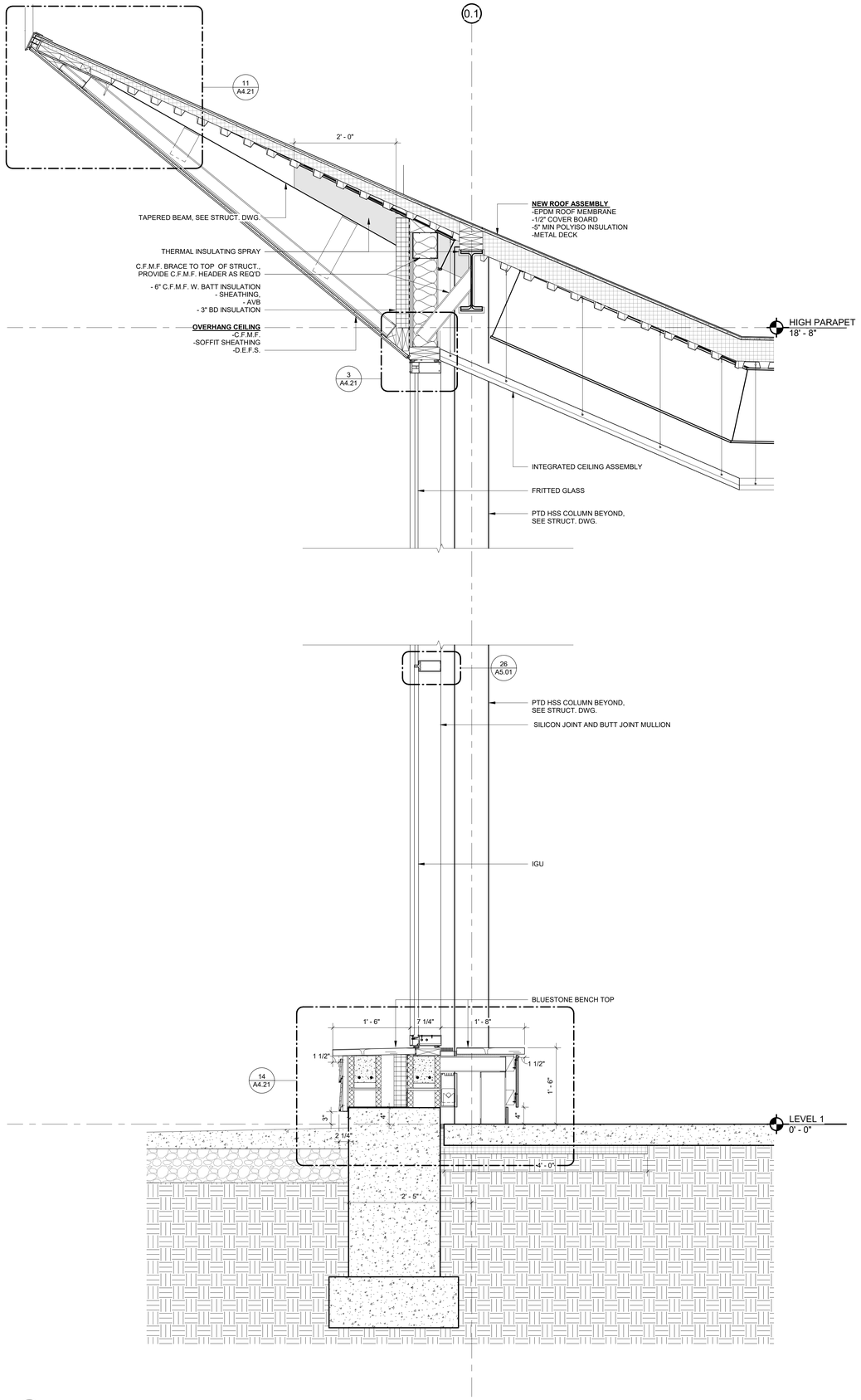
WALL SECTIONS - ADULT ROOM

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

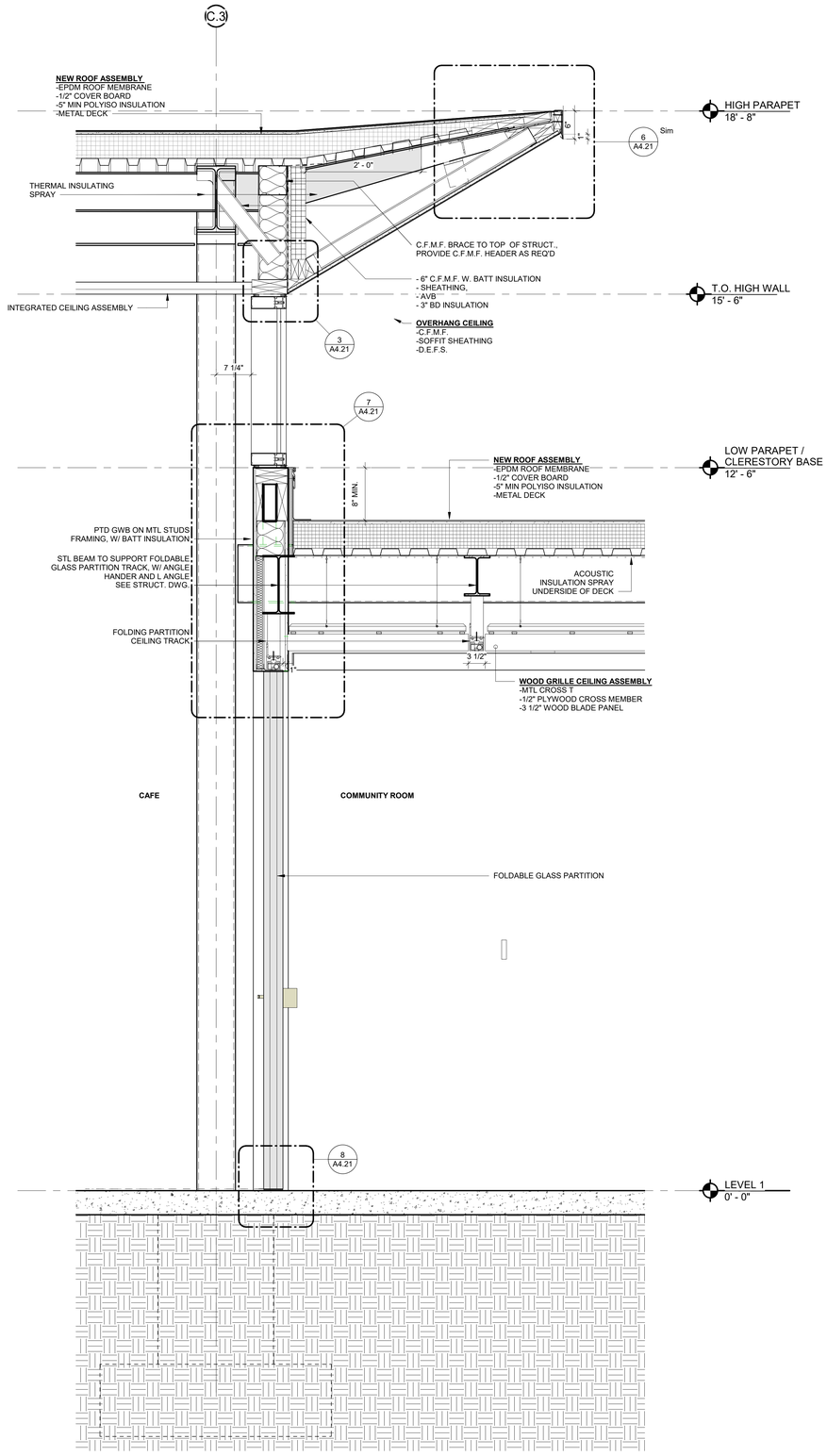
ISSUE DATES

NO.	DATE	PURPOSE

A4.01



2 ADULT ROOM EAST SIDE ANGLED WALL TRUE SECTION
1" = 1'-0"



1 CAFE / COMMUNITY ROOM WALL SECTION
1" = 1'-0"

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PROJECT

CD SET

DRAWING TITLE

WALL SECTIONS -ADULT ROOM AND CAFE

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
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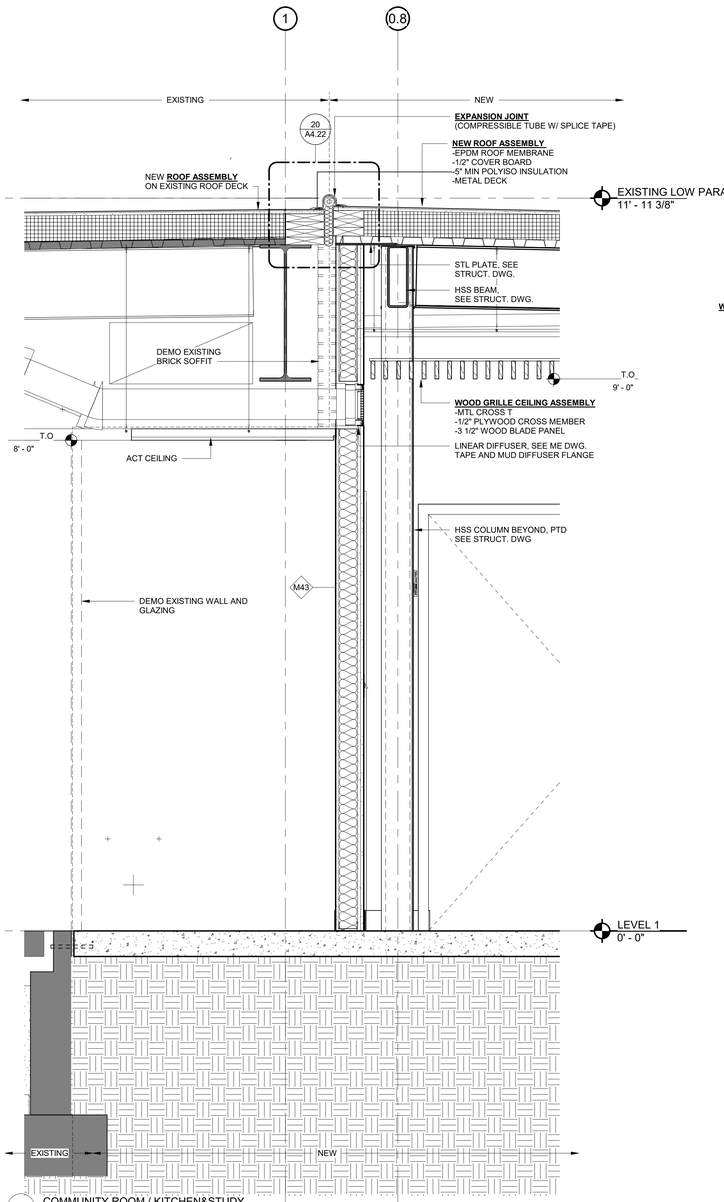
ISSUE DATES

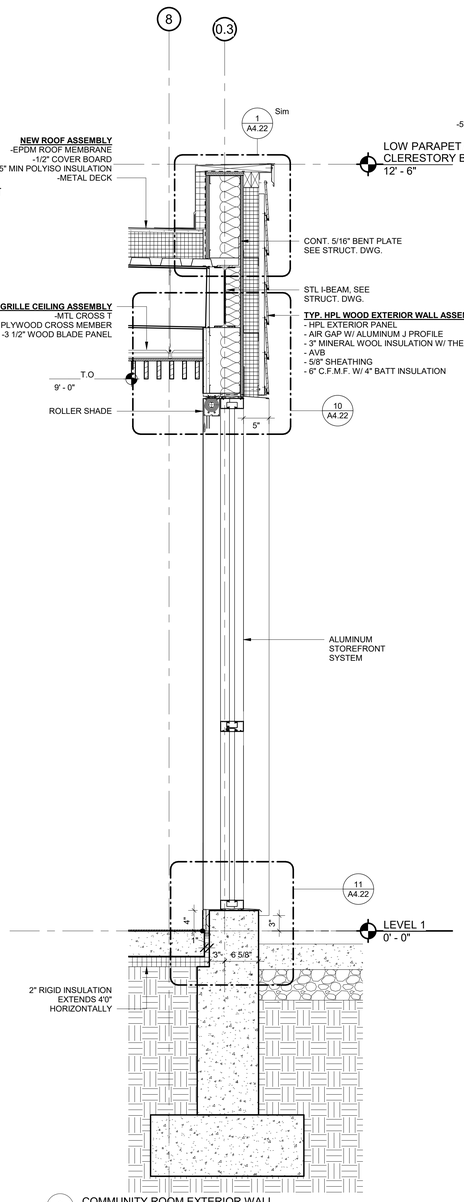
NO.	DATE	PURPOSE

A4.02

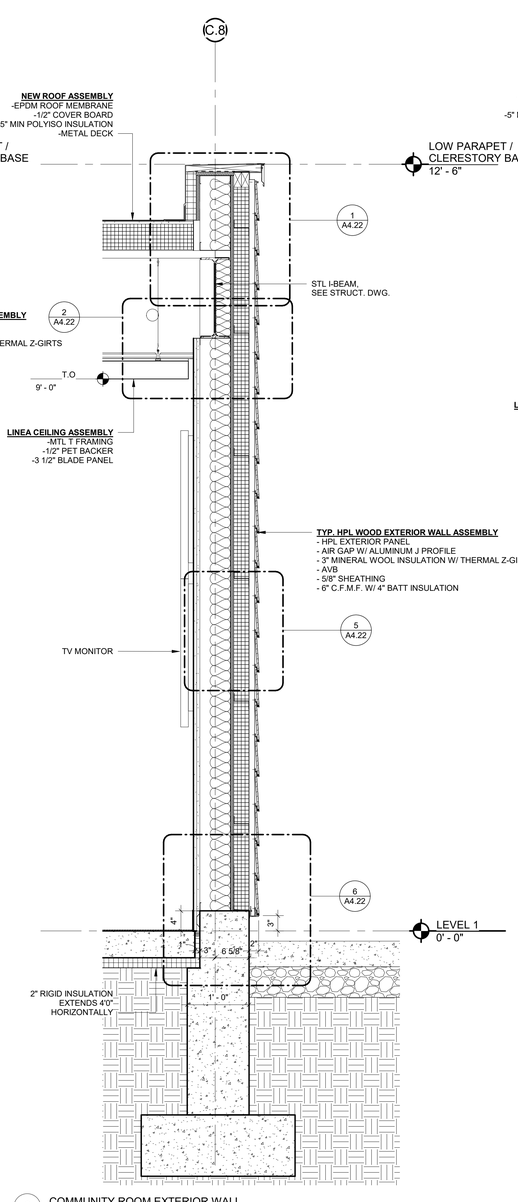
2/15/2023 3:29:45 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



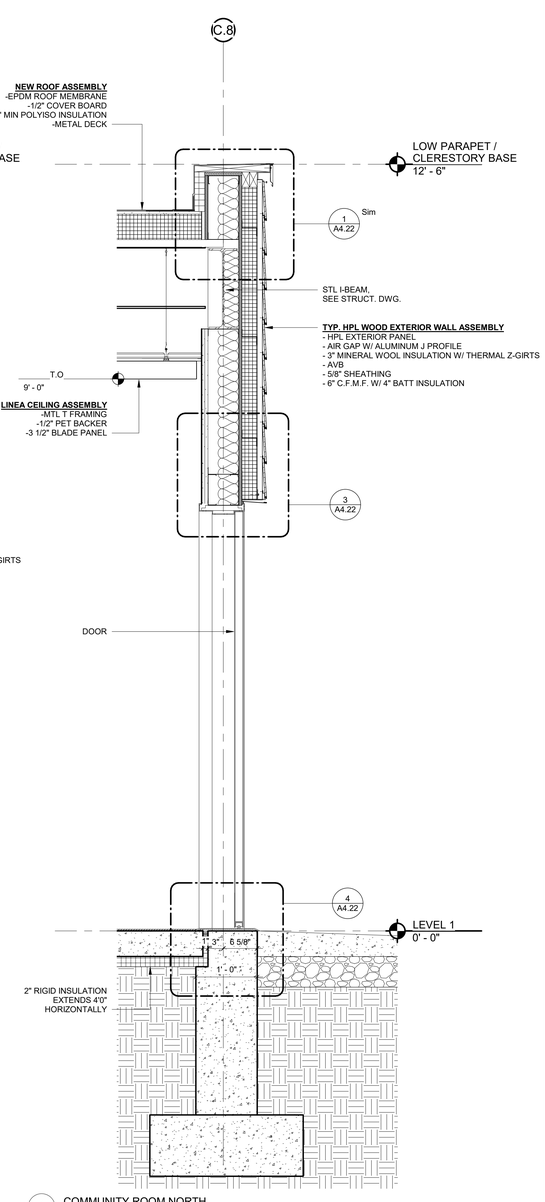
4 COMMUNITY ROOM / KITCHEN&STUDY
1" = 1'-0"



3 COMMUNITY ROOM EXTERIOR WALL
1" = 1'-0"



2 COMMUNITY ROOM EXTERIOR WALL
1" = 1'-0"



1 COMMUNITY ROOM NORTH
1" = 1'-0"

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PROJECT

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DRAWING TITLE

WALL SECTIONS -COMMUNITY ROOM

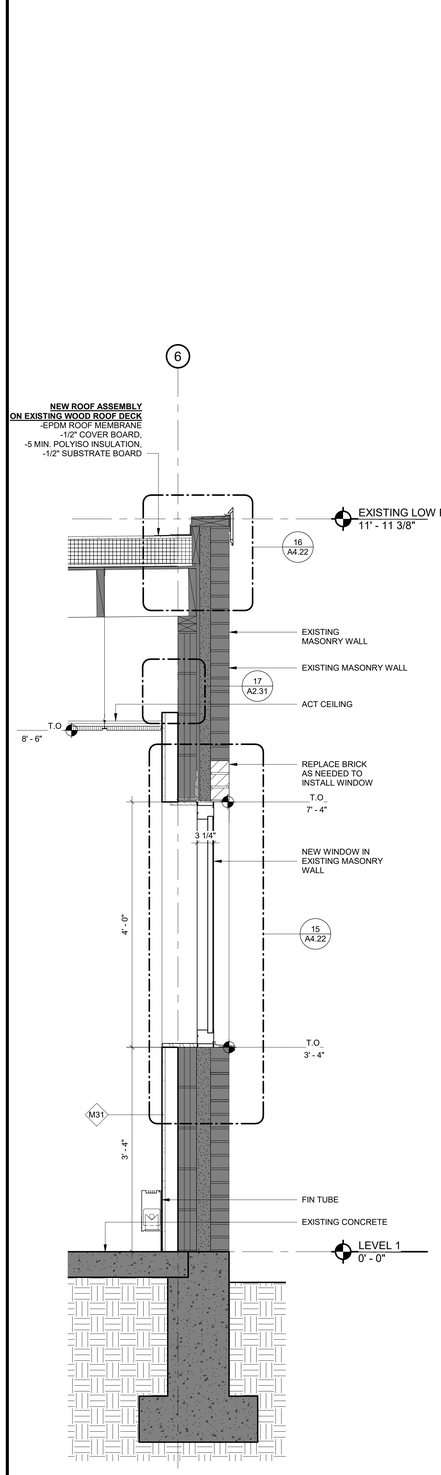
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

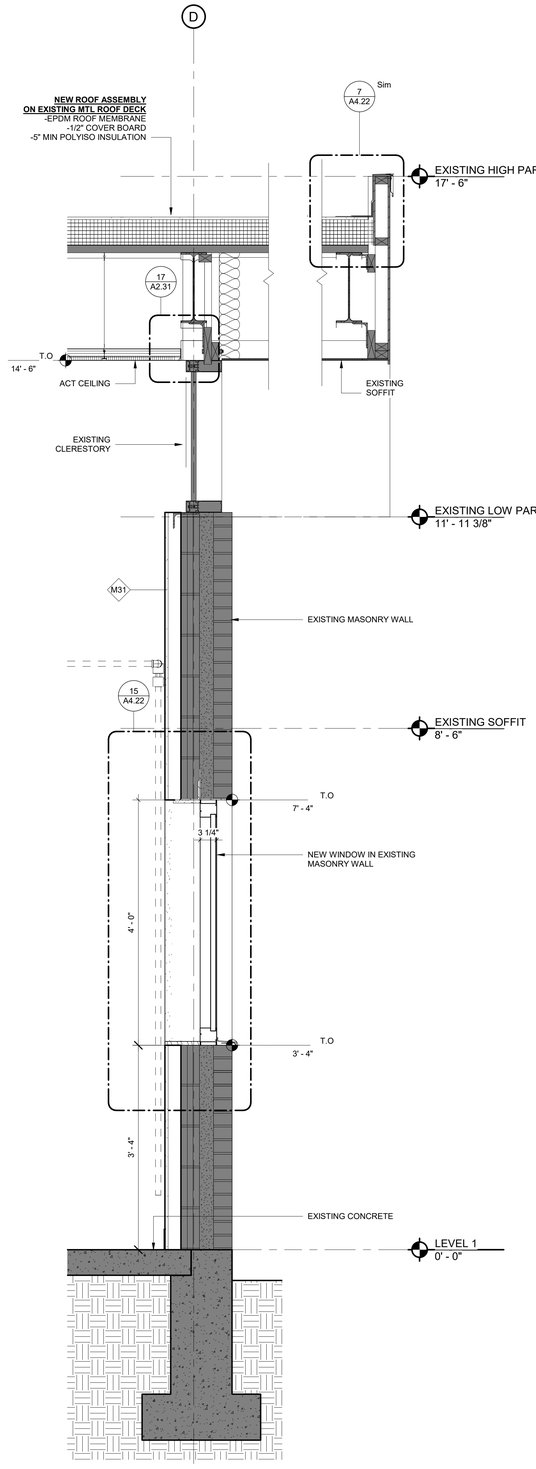
NO.	DATE	PURPOSE

A4.03

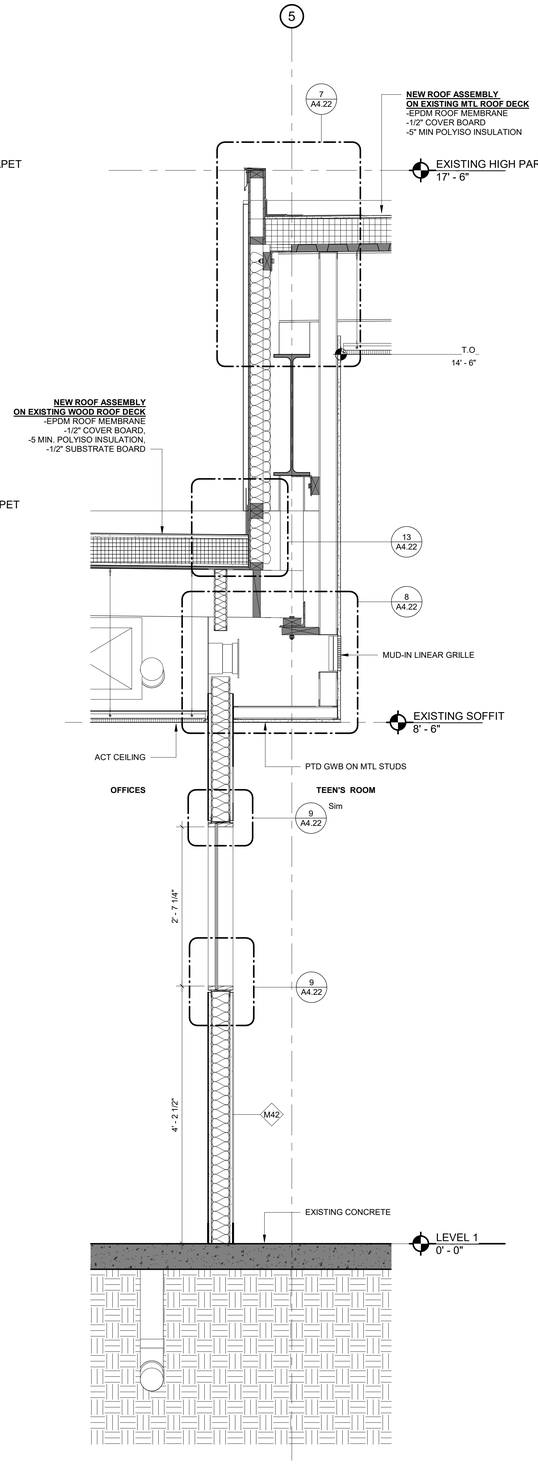
2/15/2023 3:11:53 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BM360-2021.rvt



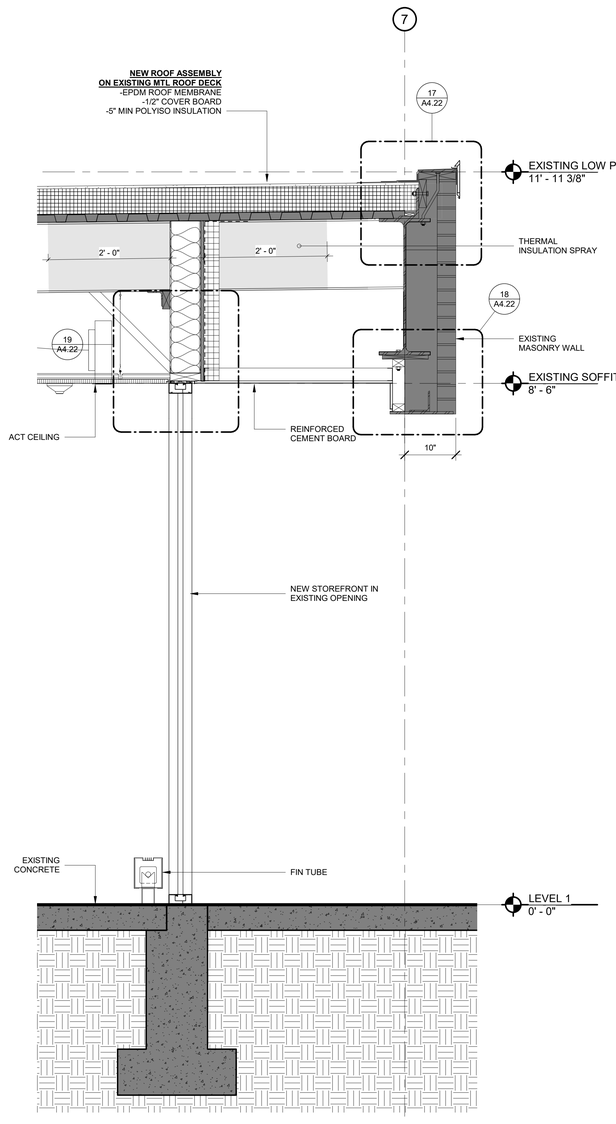
4 WALL SECTION @ OFFICES
1" = 1'-0"



3 SECTION @ TEEN'S WINDOW
1" = 1'-0"



2 WALL SECTION @ TEENS/ OFFICES
1" = 1'-0"



1 SECTION @ CHILDREN'S WINDOWS
1" = 1'-0"

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PROJECT
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DRAWING TITLE
WALL SECTIONS -EXISTING BUILDING

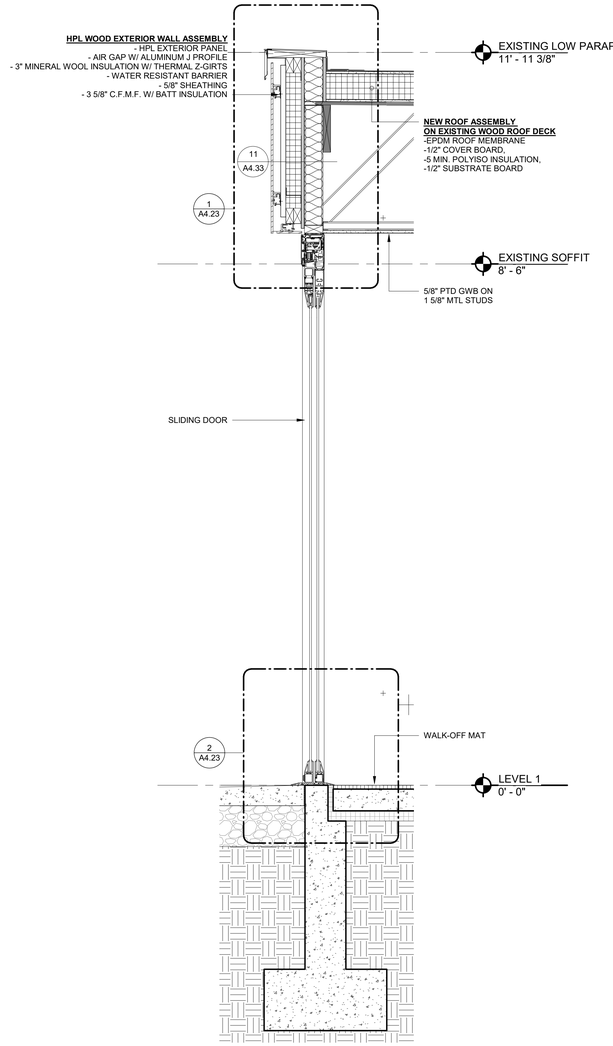
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

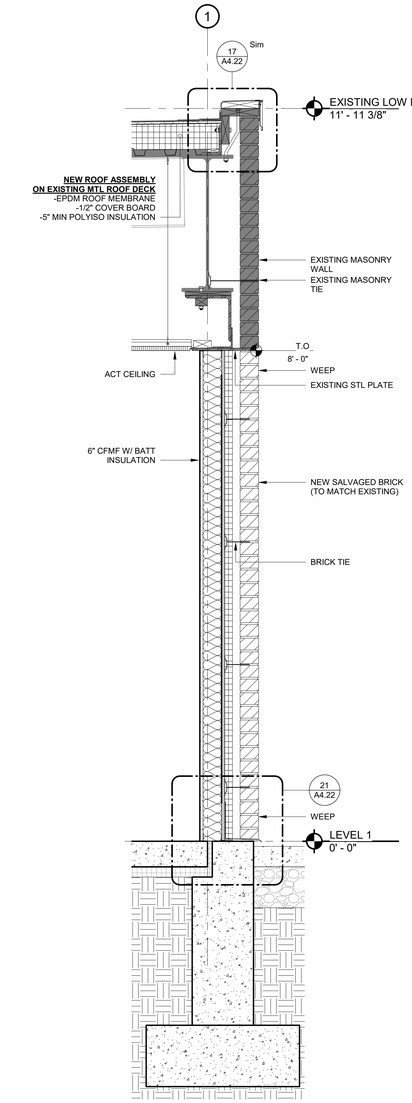
NO.	DATE	PURPOSE

A4.04

2/15/2023 3:20:58 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



2 SECTION @ WEST VESTIBULE
1" = 1'-0"



1 NEW BRICK WALL @ KITCHEN/STORAGE
1" = 1'-0"

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STATE OF CONNECTICUT
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NO. 1991

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PROJECT

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DRAWING TITLE

WALL SECTIONS - EXISTING BUILDING

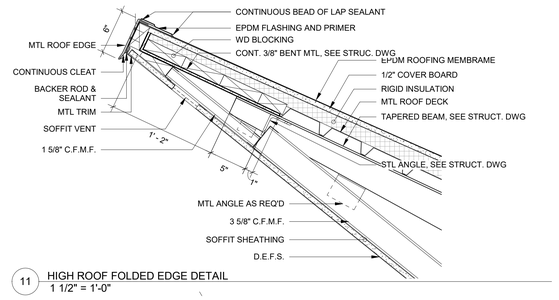
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

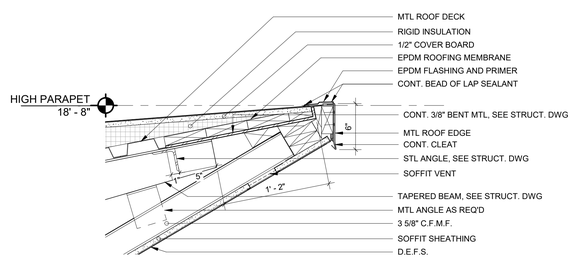
NO.	DATE	PURPOSE

A4.05

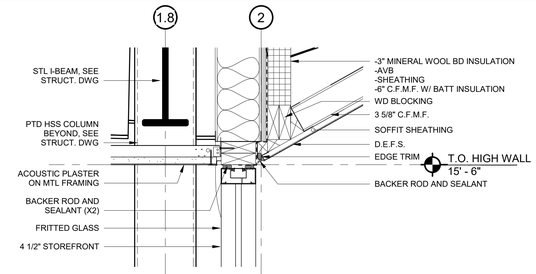
2/15/2023 3:59:04 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



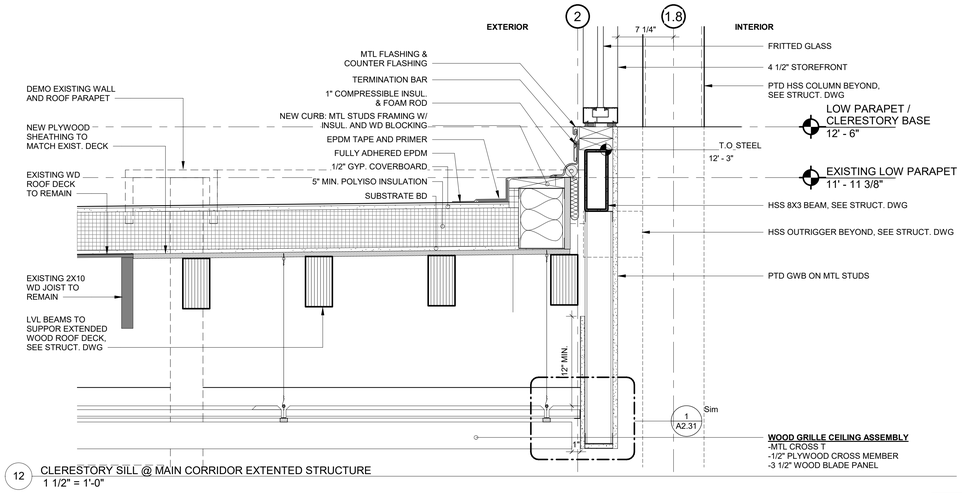
11 HIGH ROOF FOLDED EDGE DETAIL
1 1/2" = 1'-0"



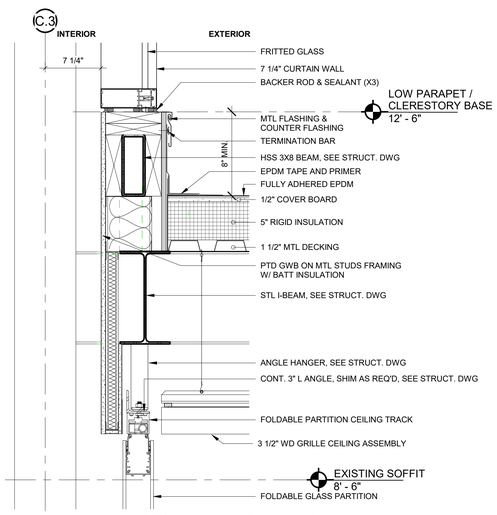
6 HIGH ROOF EDGE DETAIL, TYP.
1 1/2" = 1'-0"



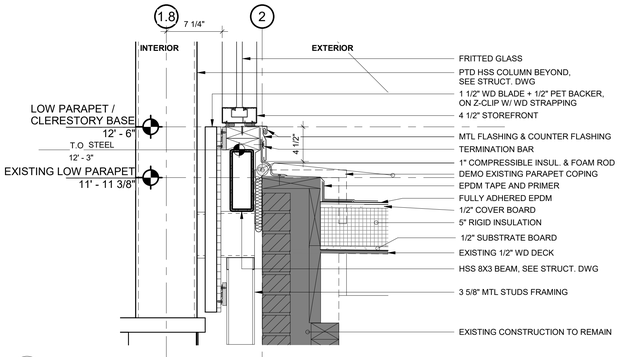
1 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0"



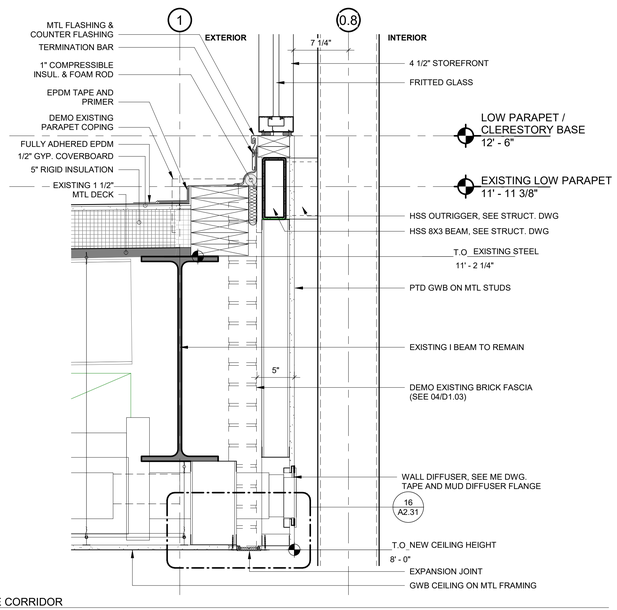
12 CLERESTORY SILL @ MAIN CORRIDOR EXTENTED STRUCTURE
1 1/2" = 1'-0"



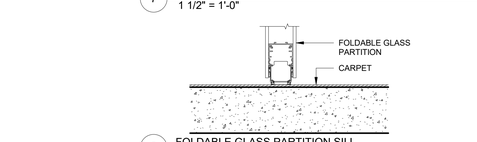
7 CLERESTORY SILL, @ COMMUNITY RM SOUTH, W/ FOLDABLE PARTITION HEAD
1 1/2" = 1'-0"



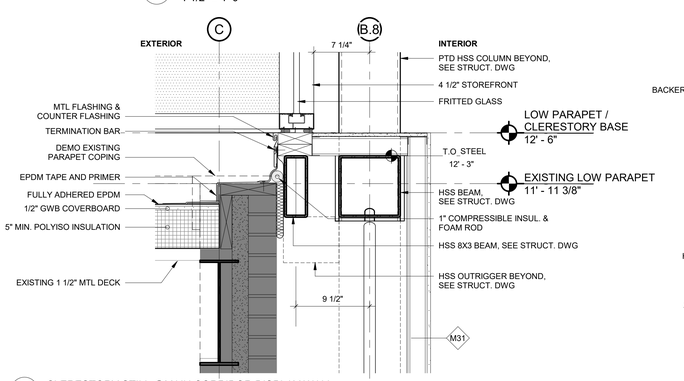
2 CLERESTORY SILL, @ ADULT RM WEST
1 1/2" = 1'-0"



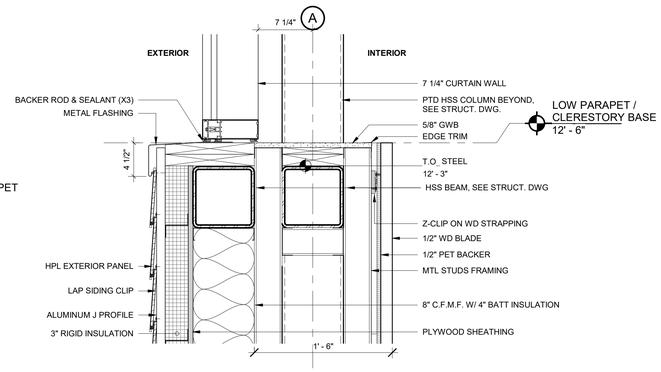
13 CLERESTORY SILL @ CAFE CORRIDOR
1 1/2" = 1'-0"



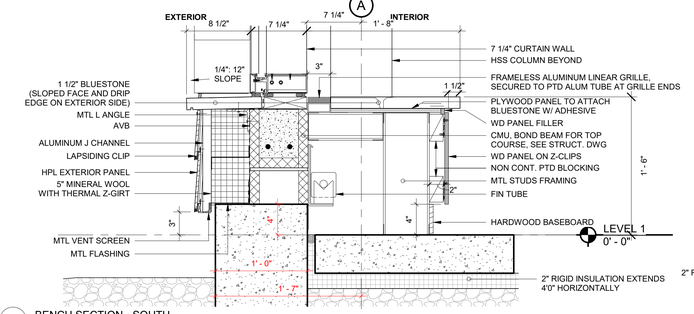
8 FOLDABLE GLASS PARTITION SILL
1 1/2" = 1'-0"



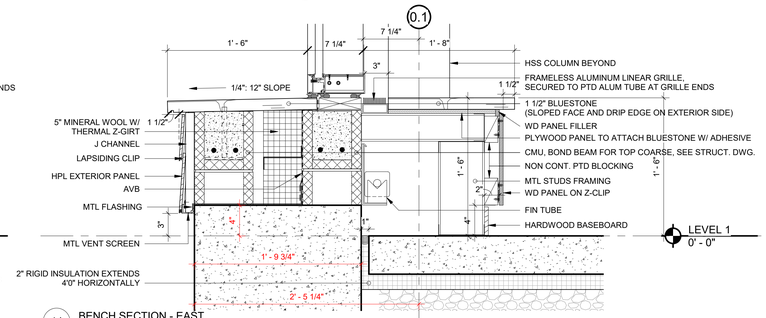
9 CLERESTORY STILL @MAIN CORRIDOR DISPLAY WALL
1 1/2" = 1'-0"



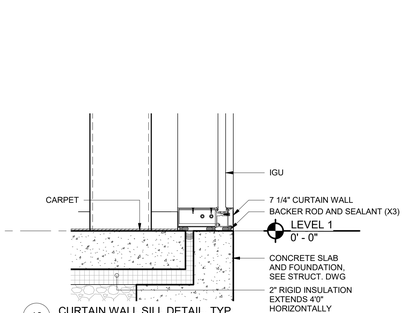
4 CLERESTORY SILL, @ ADULT RM SOUTH
1 1/2" = 1'-0"



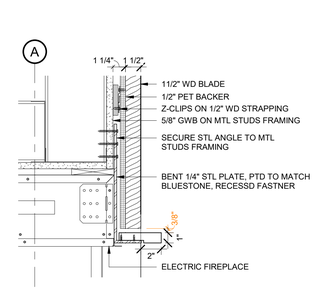
15 BENCH SECTION - SOUTH
1 1/2" = 1'-0"



14 BENCH SECTION - EAST
1 1/2" = 1'-0"



10 CURTAIN WALL SILL DETAIL, TYP.
1 1/2" = 1'-0"



5 FIREPLACE HEADER DETAIL
1 : 6

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PROJECT
CD SET

DRAWING TITLE
SECTION DETAILS - ADULT ROOM, EAST ENTRY AND CAFE

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A4.21

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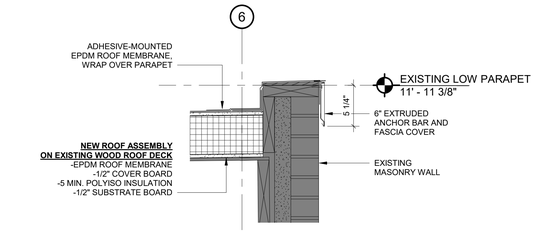
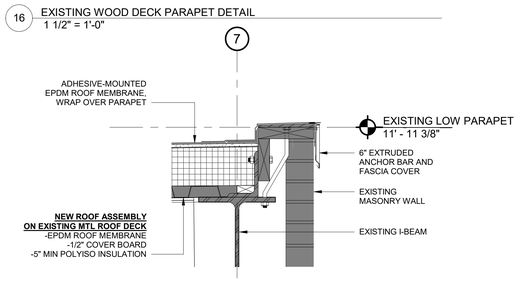


16 EXISTING WOOD DECK PARAPET DETAIL
1 1/2" = 1'-0"



17 EXISTING METAL DECK PARAPET DETAIL
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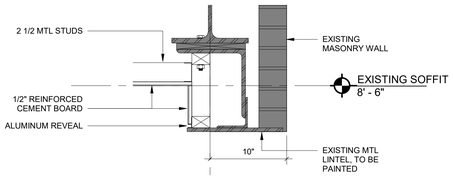
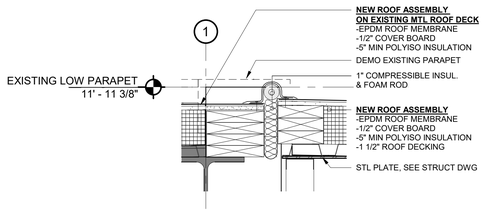
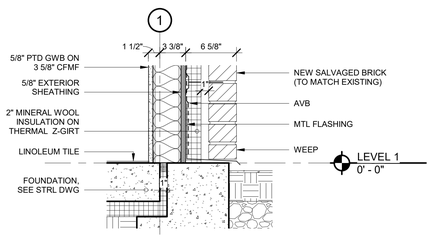


18 OVERHANG DETAIL @ CHILDREN'S ROOM
1 1/2" = 1'-0"

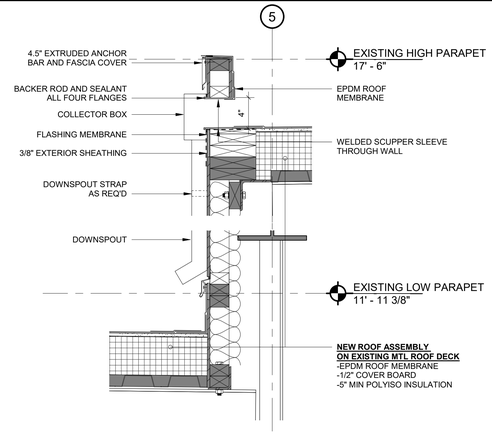
19 EXTERIOR HEADER DETAIL @ CHILDREN'S ROOM
1 1/2" = 1'-0"



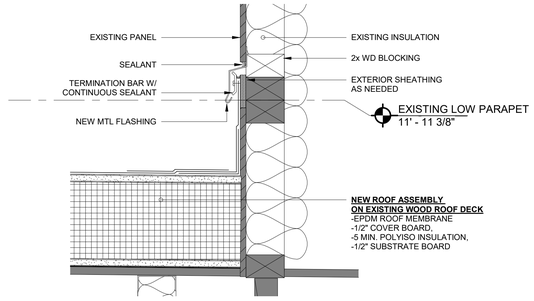
20 COMMUNITY ROOM TO EXISTING ROOF EXPANSION JOINT
1 1/2" = 1'-0"



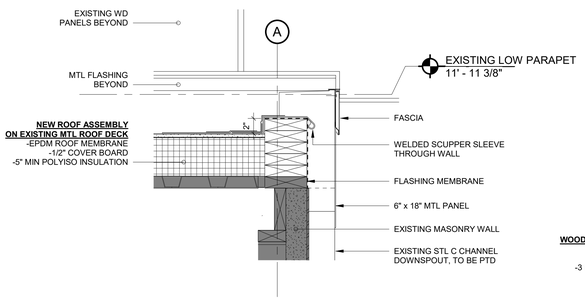
21 FOUNDATION DETAIL @ NEW MASONRY WALL
1 1/2" = 1'-0"



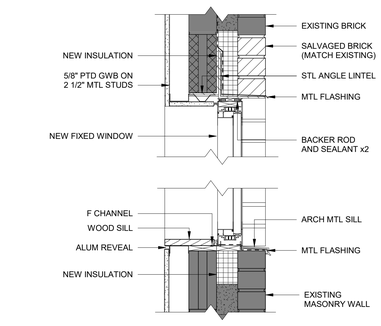
12 SCUPPER AND DOWNSPOUT DETAIL @ EXISTING HIGH PARAPET
1 1/2" = 1'-0"



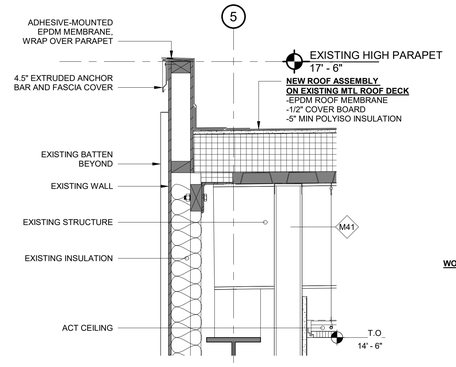
13 ROOF BASE DETAIL @ EXISTING HIGH PARAPET
3" = 1'-0"



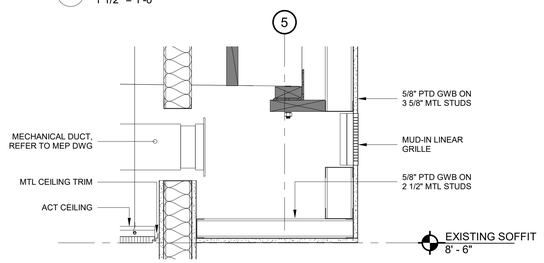
14 OVERFLOW SCUPPER DETAIL @ LOW PARAPET
1 1/2" = 1'-0"



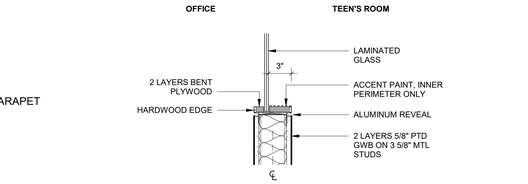
15 HEAD AND SILL DETAIL @ FIXED WINDOWS
1 1/2" = 1'-0"



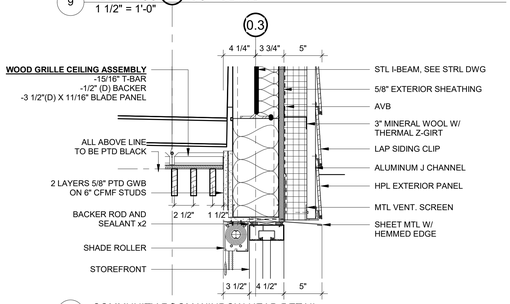
7 ROOF DETAIL @ EXISTING HIGH PARAPET
1 1/2" = 1'-0"



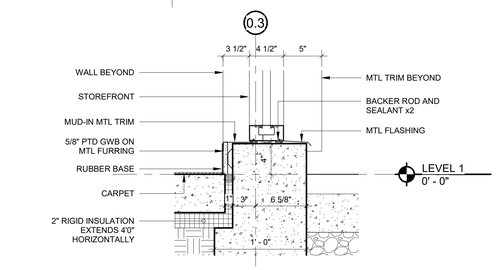
8 CEILING DETAIL @ TEEN'S/OFFICES
1 1/2" = 1'-0"



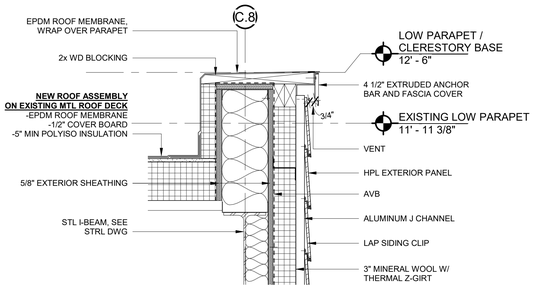
9 TEEN'S ROOM WINDOW DETAIL
1 1/2" = 1'-0"



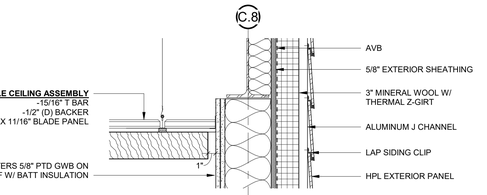
10 COMMUNITY ROOM WINDOW HEAD DETAIL
1 1/2" = 1'-0"



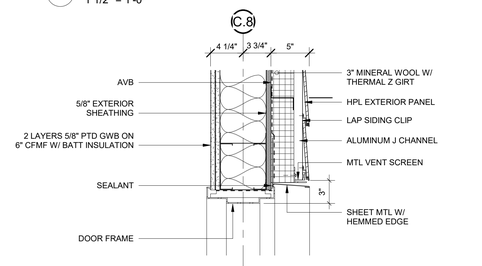
11 COMMUNITY ROOM WINDOW SILL DETAIL
1 1/2" = 1'-0"



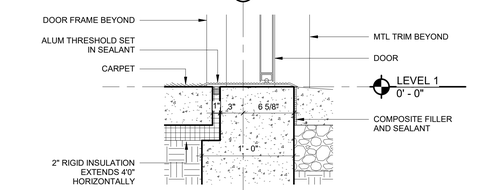
1 COMMUNITY ROOM PARAPET DETAIL
1 1/2" = 1'-0"



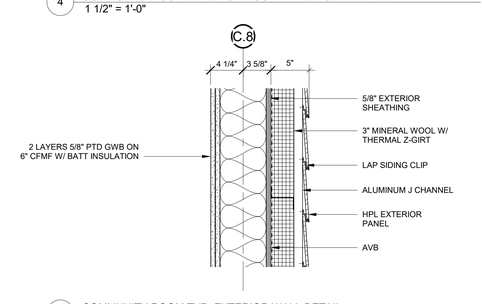
2 COMMUNITY ROOM CEILING DETAIL
1 1/2" = 1'-0"



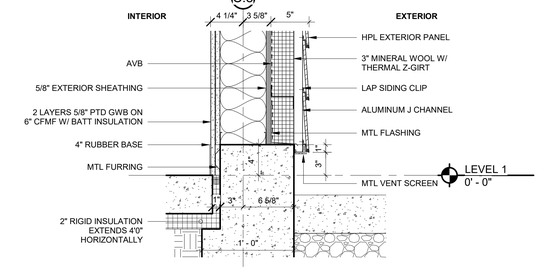
3 COMMUNITY ROOM EXTERIOR DOOR HEAD DETAIL
1 1/2" = 1'-0"



4 COMMUNITY ROOM EXTERIOR DOOR THRESHOLD DETAIL
1 1/2" = 1'-0"



5 COMMUNITY ROOM TYP. EXTERIOR WALL DETAIL
1 1/2" = 1'-0"



6 COMMUNITY ROOM FOUNDATION DETAIL
1 1/2" = 1'-0"

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PROJECT

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DRAWING TITLE

SECTION DETAILS - COMMUNITY ROOM AND EXISTING BUILDING

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
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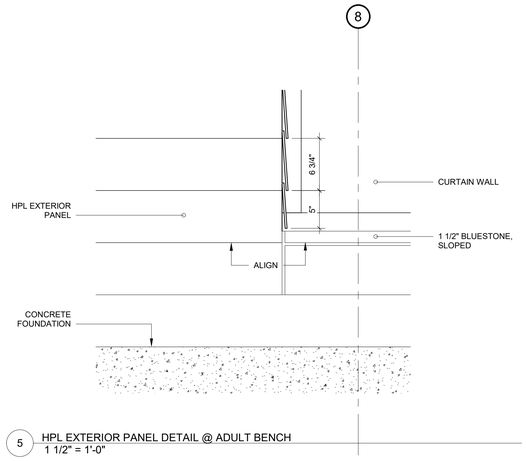
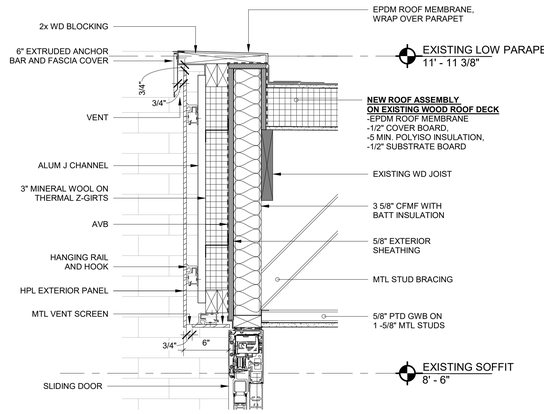
ISSUE DATES

NO.	DATE	PURPOSE

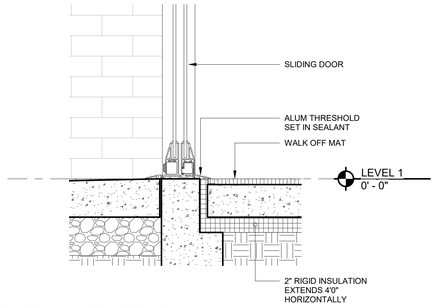
A4.22



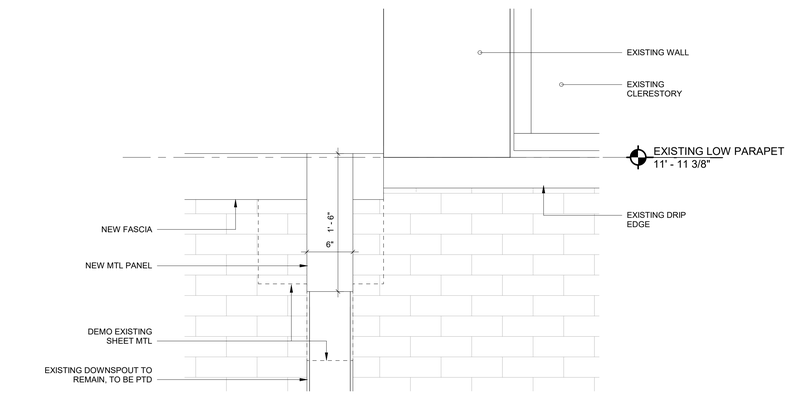
5 HPL EXTERIOR PANEL DETAIL @ ADULT BENCH
1 1/2" = 1'-0"



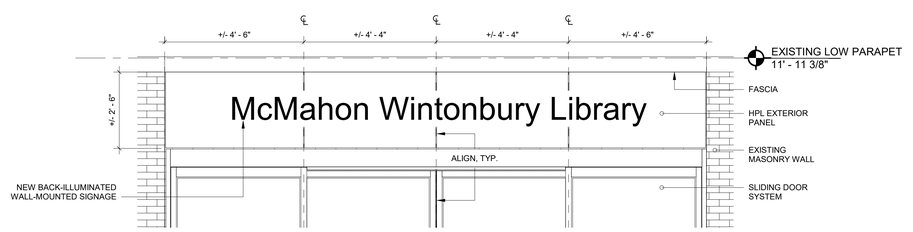
1 EXTERIOR WALL DETAIL @ WEST VESTIBULE
1 1/2" = 1'-0"



2 SILL DETAIL @ WEST VESTIBULE
1 1/2" = 1'-0"



3 TYP. DOWNSPOUT ELEVATION DETAIL @ LOW PARAPET
1 1/2" = 1'-0"



4 WEST VESTIBULE EXTERIOR DETAIL
1/2" = 1'-0"

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SECTION AND ELEVATION DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A4.23

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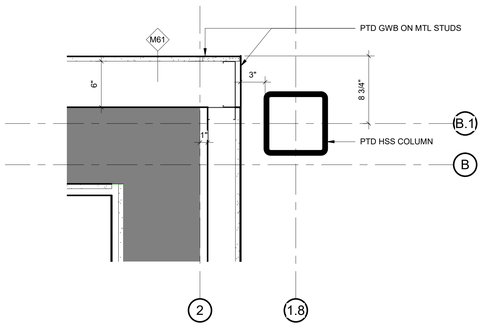
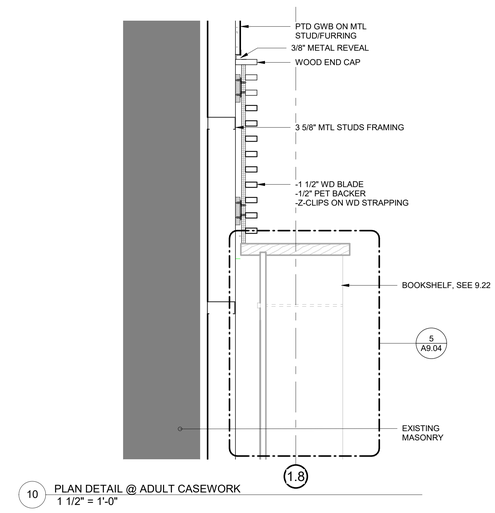
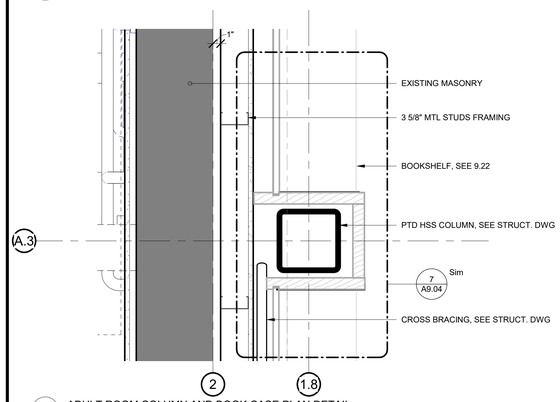


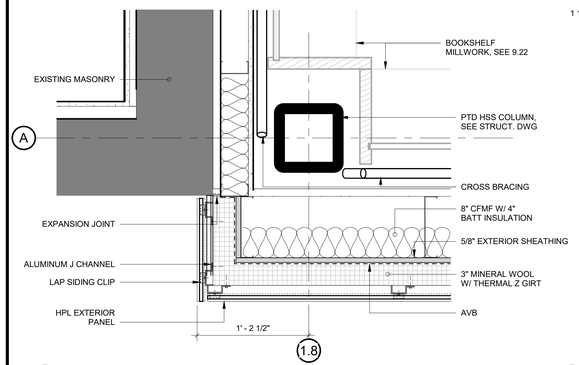
9 ADULT ROOM COLUMN TO GYP. PLAN DETAIL
1 1/2" = 1'-0"



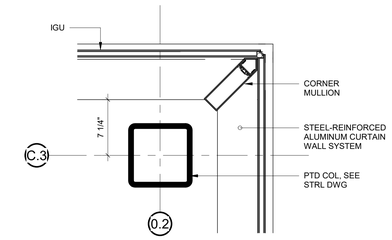
10 PLAN DETAIL @ ADULT CASEWORK
1 1/2" = 1'-0"



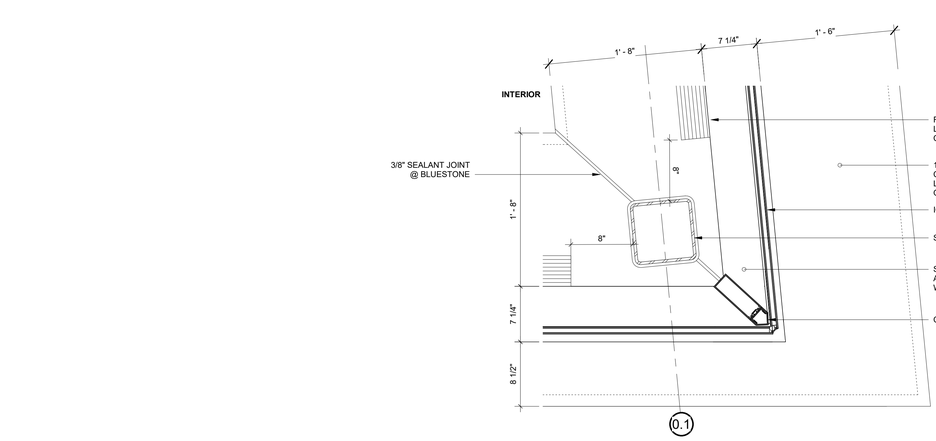
11 ADULT ROOM COLUMN AND BOOK CASE PLAN DETAIL
1 1/2" = 1'-0"



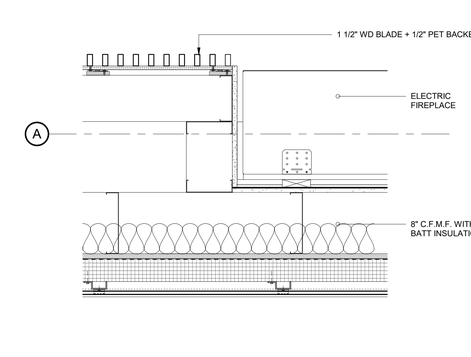
12 PLAN DETAIL @ ADULT CASEWORK CORNER
1 1/2" = 1'-0"



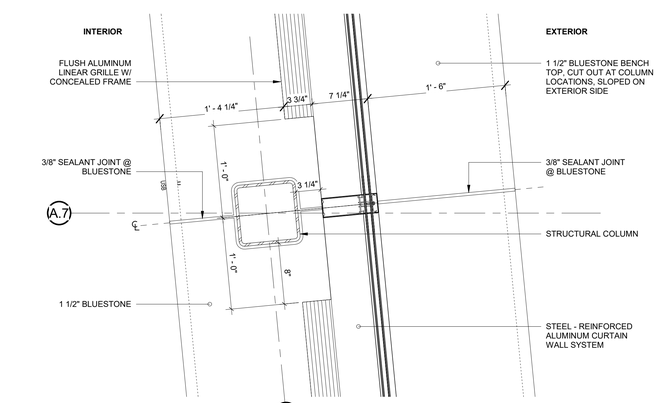
5 CORNER MULLION DETAIL
1 1/2" = 1'-0"



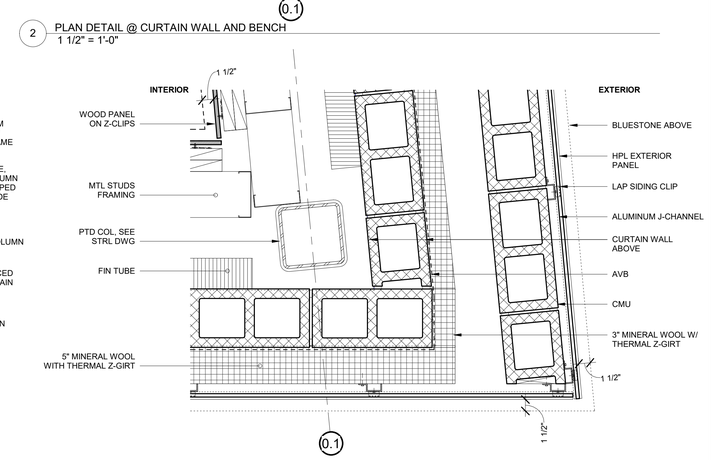
6 PLAN DETAIL @ ADULT BENCH CORNER
1 1/2" = 1'-0"



8 FIRST FLOOR PLAN - Callout 2
1 1/2" = 1'-0"

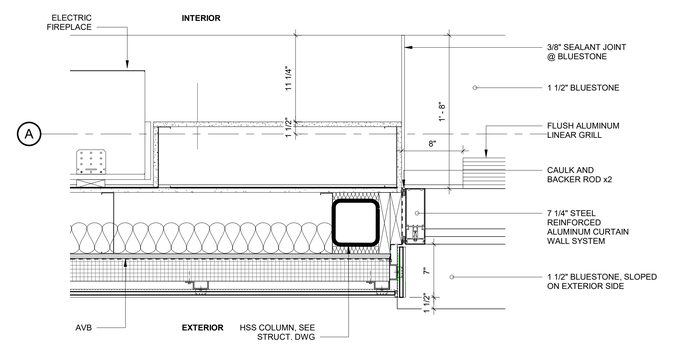


2 PLAN DETAIL @ CURTAIN WALL AND BENCH
1 1/2" = 1'-0"



3 PLAN DETAIL @ ADULT BENCH CORNER (CUT PLANE @ 16")
1 1/2" = 1'-0"

7 PLAN DETAIL @ FIREPLACE
1 1/2" = 1'-0"



4 PLAN DETAIL @ ADULT BENCH
1 1/2" = 1'-0"

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DRAWING TITLE

PLAN DETAILS - ADULT ROOM, EAST ENTRY AND CAFE - 1

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1 1/2" = 1'-0"
DATE	02/06/2023
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ISSUE DATES

NO.	DATE	PURPOSE

A4.31

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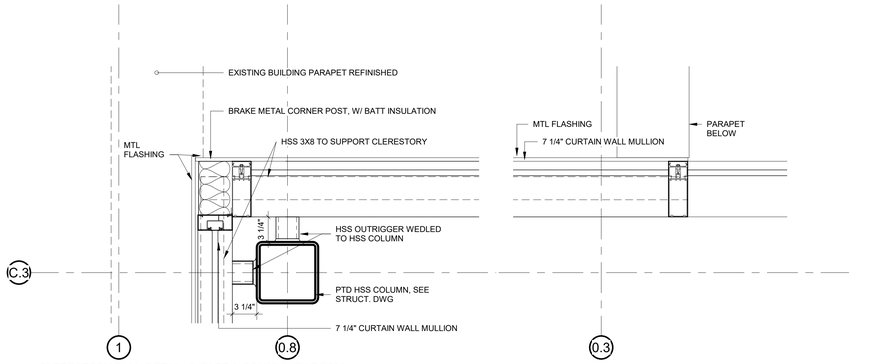
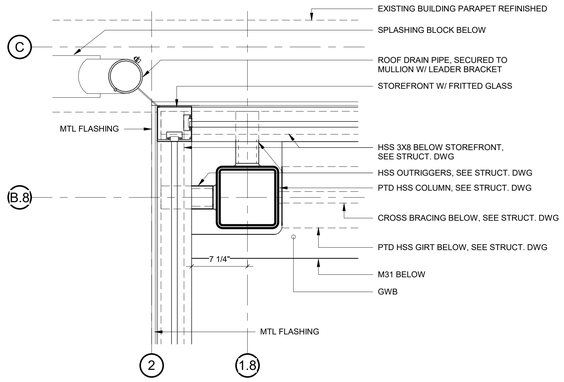


5 CLERESTORY PLAN DETAIL @ CAFE & COMMUNITY ROOM PARTITION WALL
1 1/2" = 1'-0"



8 CLERESTORY PLAN DETAIL CORNER 2
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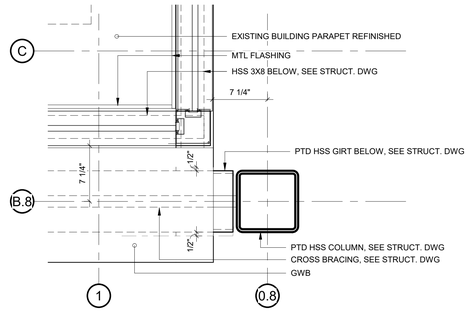
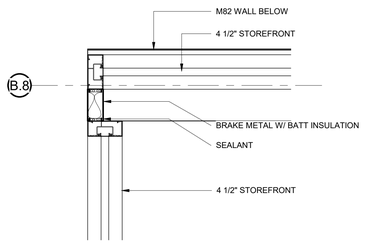
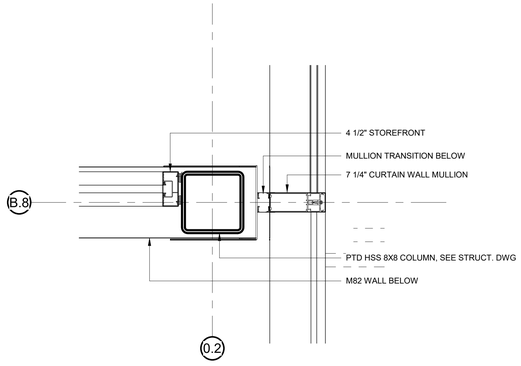


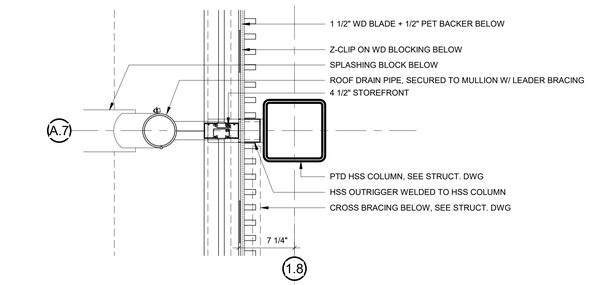
6 CLERESTORY PLAN DETAIL CORNER 1
1 1/2" = 1'-0"



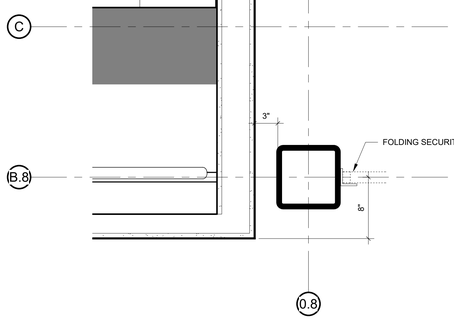
3 CLERESTORY PLAN DETAIL @ VESTIBULE CORNER 1
1 1/2" = 1'-0"



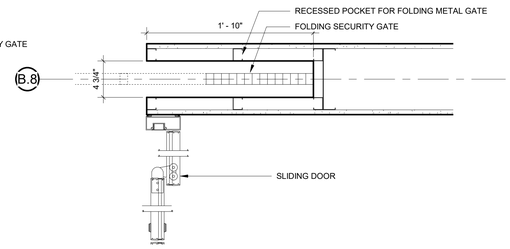
1 CLRESTORY PLAN DETAIL @ VESTIBULE CORNER 2
1 1/2" = 1'-0"



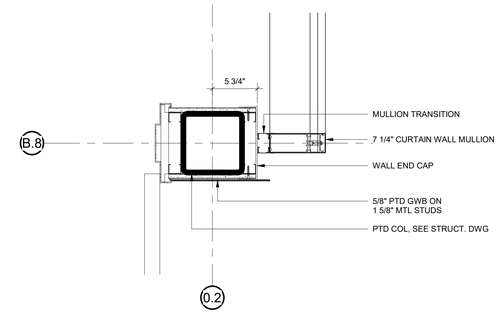
9 CLERESTORY PLAN DETAIL 3
1 1/2" = 1'-0"



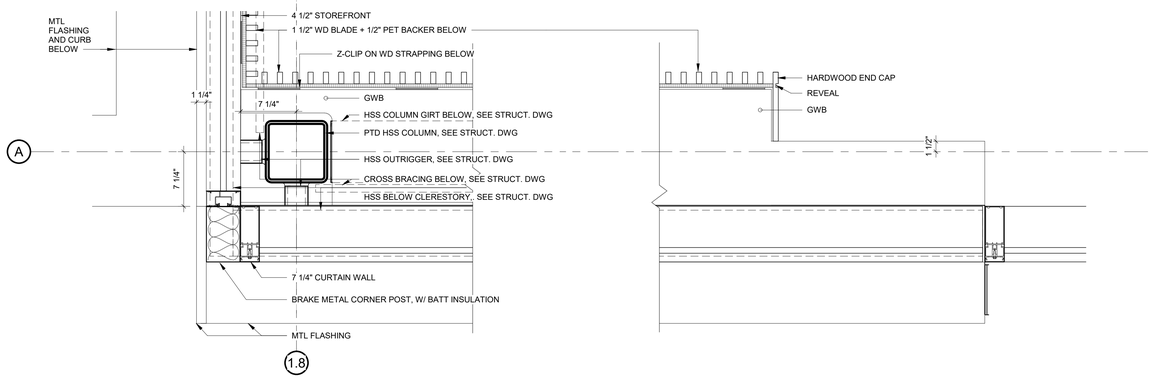
7 RETRACTABLE FENCE PLAN DETAIL @ ART WALL
1 1/2" = 1'-0"



4 PLAN DETAIL @ VESTIBULE CORNER 1_ RECESSED POCKET
1 1/2" = 1'-0"



2 PLAN DETAIL @ VESTIBULE CORNER 2
1 1/2" = 1'-0"



10 CLERESTORY PLAN DETAIL @ ADULT ROOM SOUTH WALL
1 1/2" = 1'-0"

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BLOOMFIELD. CT 06002

PROJECT
CD SET

DRAWING TITLE
PLAN DETAILS - ADULT ROOM, EAST ENTRY AND CAFE - 2

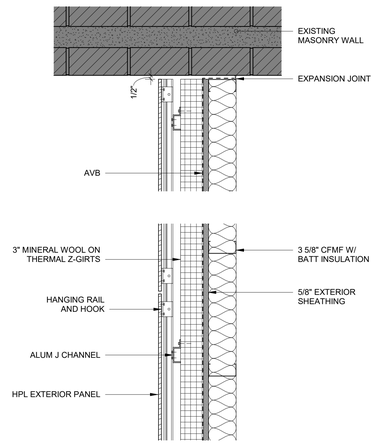
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1 1/2" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

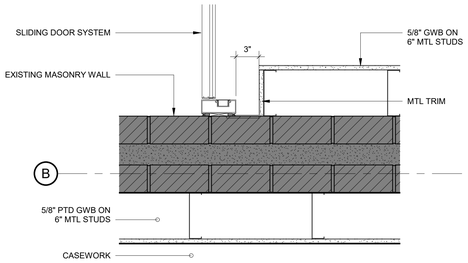
NO.	DATE	PURPOSE

A4.32

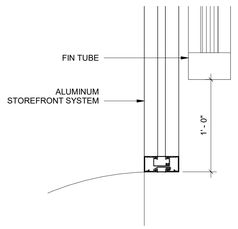
2/15/2023 3:35:56 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



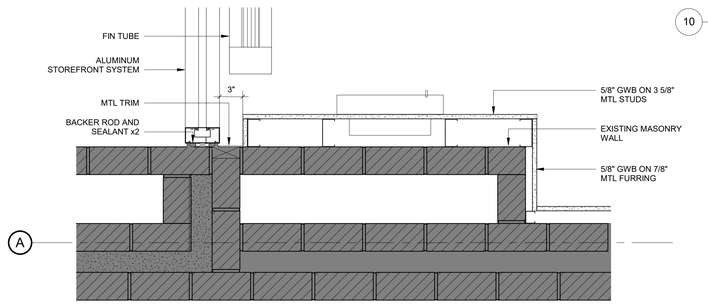
11 PLAN DETAIL @ WEST VESTIBULE EXTERIOR WALL
1 1/2" = 1'-0"



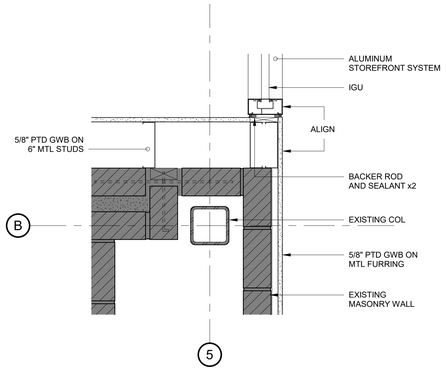
12 JAMB DETAIL @ WEST VESTIBULE
1 1/2" = 1'-0"



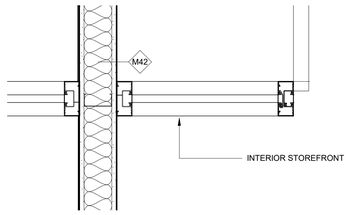
13 PLAN DETAIL @ CHILDREN'S AREA
1 1/2" = 1'-0"



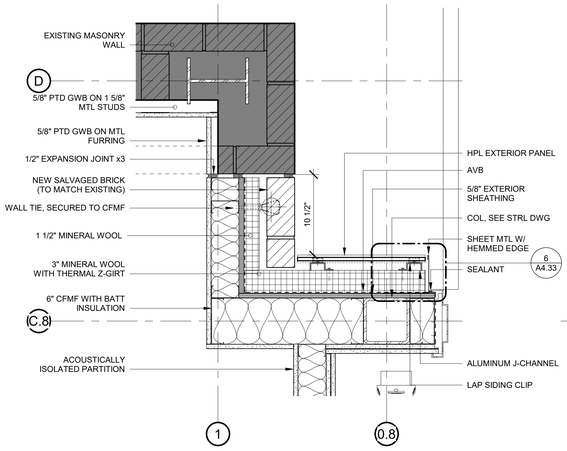
14 CHILDREN'S ROOM STOREFRONT JAMB DETAIL
1 1/2" = 1'-0"



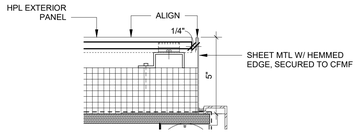
9 PLAN DETAIL @ CHILDREN'S AREA
1 1/2" = 1'-0"



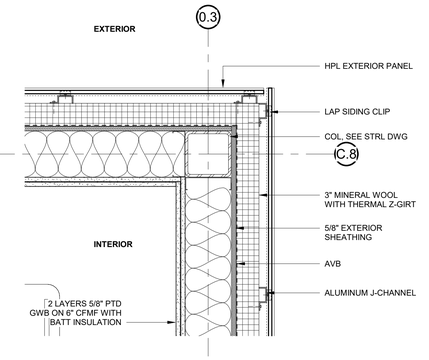
10 PLAN DETAIL @ TEEN AREA CORNER
1 1/2" = 1'-0"



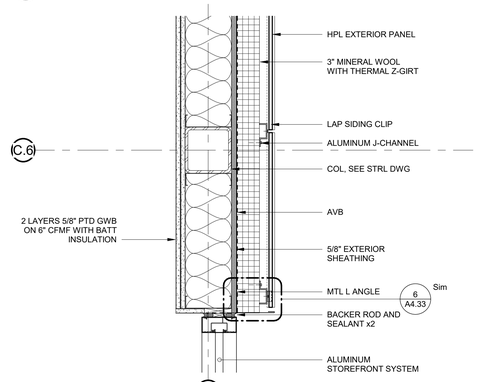
5 PLAN DETAIL @ COMMUNITY ROOM CORNER 3
1 1/2" = 1'-0"



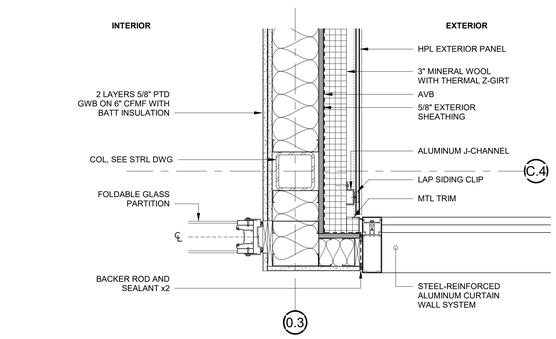
6 EXTERIOR TRIM DETAIL @ COMMUNITY ROOM
3" = 1'-0"



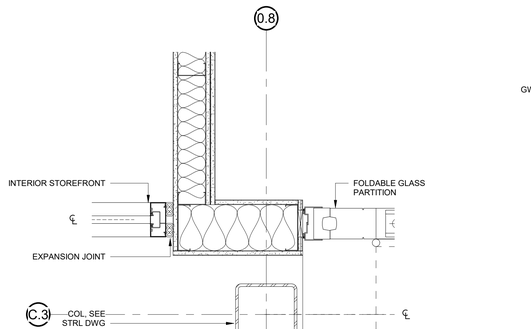
1 PLAN DETAIL @ COMMUNITY ROOM CORNER
1 1/2" = 1'-0"



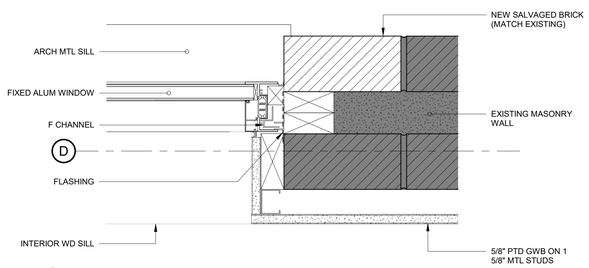
2 PLAN DETAIL @ COMMUNITY ROOM EXTERIOR WALL
1 1/2" = 1'-0"



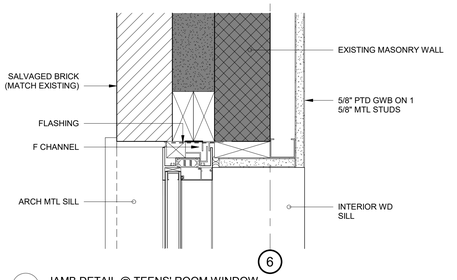
3 PLAN DETAIL @ COMMUNITY ROOM CORNER 2
1 1/2" = 1'-0"



7 PLAN DETAIL @ COMMUNITY ROOM CORNER 1
1 1/2" = 1'-0"



8 JAMB DETAIL @ OFFICE WINDOW
3" = 1'-0"



4 JAMB DETAIL @ TEENS' ROOM WINDOW
3" = 1'-0"

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PROJECT

CD SET

DRAWING TITLE

PLAN DETAILS - COMMUNITY ROOM AND EXISTING BUILDING

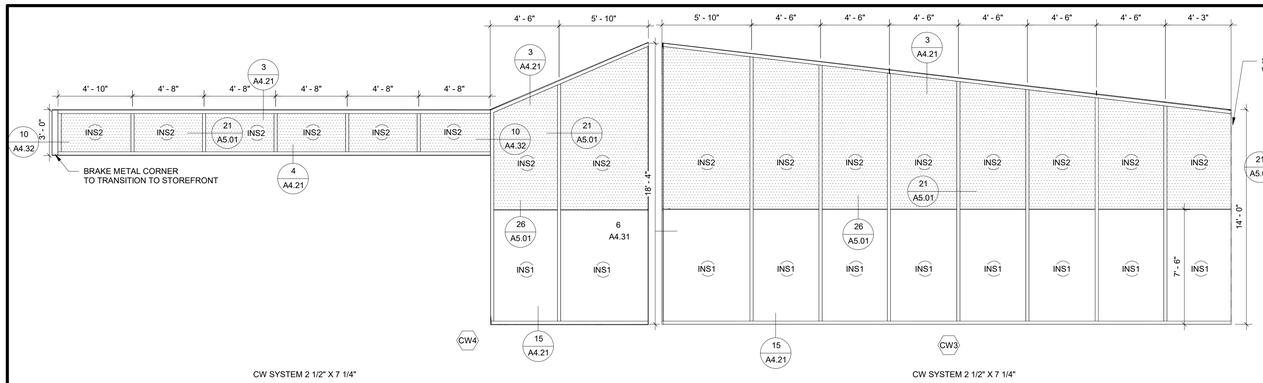
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

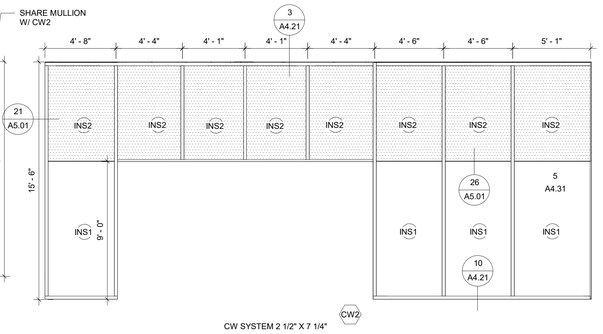
A4.33

2/15/2023 4:20:55 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt

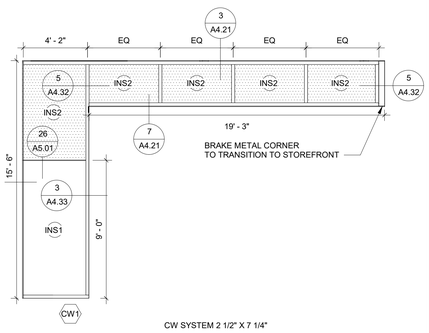


CW SYSTEM 2 1/2" X 7 1/4"

CW SYSTEM 2 1/2" X 7 1/4"

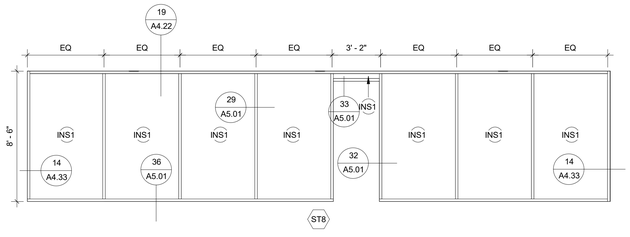


CW SYSTEM 2 1/2" X 7 1/4"

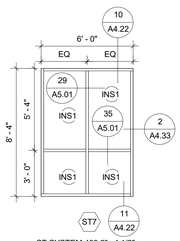


CW SYSTEM 2 1/2" X 7 1/4"

CURTAINWALL TYPE - ELEVATIONS



ST SYSTEM 403 2" x4 1/2"



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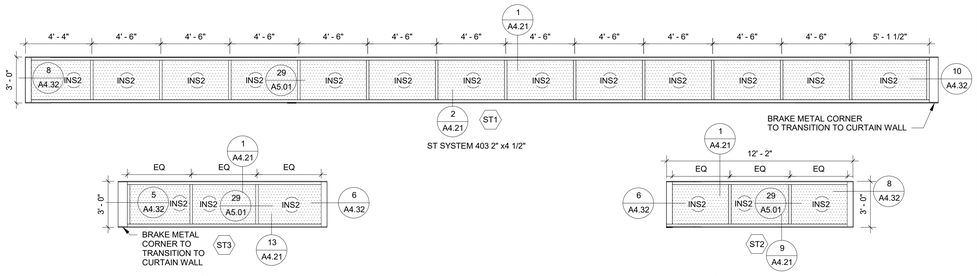
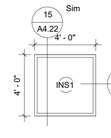


ST SYSTEM 403 2" x4 1/2"

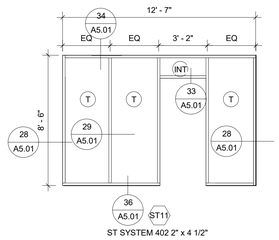
ST SYSTEM 403 2" x4 1/2"

STORefront TYPE - ELEVATIONS

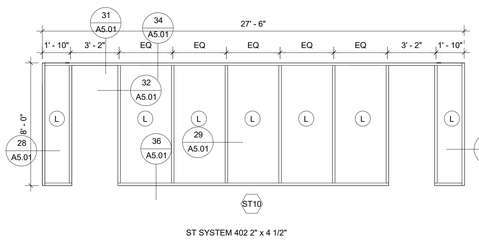


325X THERMAL WINDOW

THERMAL WINDOW TYPE - ELEVATIONS



ST SYSTEM 402 2" x 4 1/2"



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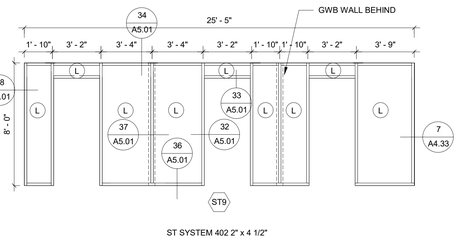

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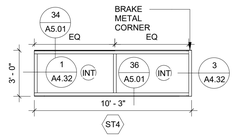

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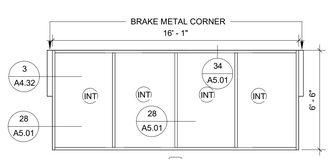

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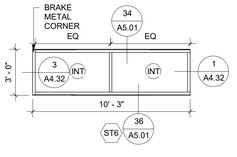


ST SYSTEM 402 2" x 4 1/2"

INTERIOR STOREFRONT TYPE - ELEVATIONS

GLASS TYPE LEGEND	
INS1	INSULATING TEMPERED GLASS
INS2	INSULATING FRITTED GLASS
INT	INTERIOR GLASS
T	INTERIOR TEMPERED GLASS
L	INTERIOR LAMINATED GLASS

GLAZING LEGEND

CLEAR

FRITTED

ROLLING SHADE WHERE INDICATED

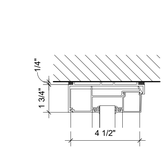
REFER TO GLAZING SPEC FOR DETAILS OF GLASS TYPES

AS-BUILT ROUGH OPENING DIMENSIONS PREVAIL.

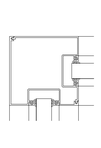
CONTRACTOR MUST VERIFY DIMENSIONS IN FIELD.

IN CASES WHERE WINDOW PERIMETER MATERIALS (INCLUDING PERIMETER SEALANT JOINT, FLASHING, AND MEMBRANE) EXCEED 1/2" OF SPACE PROVIDED HERE, WINDOW SHALL BE REDUCED TO FIT OPENING.

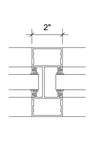
DIMENSIONS TO CENTERLINE OF MULLION ARE BASED ON A 2 1/2" WIDE CW MULLION OR 2" STOREFRONT MULLION UNLESS NOTED OTHERWISE.



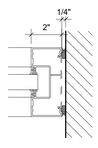
34 S.T. HEAD DETAIL
3" = 1'-0"



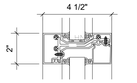
30 S.T. CORNER PLAN DETAIL
3" = 1'-0"



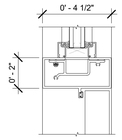
29 S.T. MULLION DETAIL
3" = 1'-0"



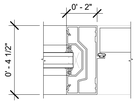
28 S.T. JAMB DETAIL
3" = 1'-0"



35 S.T. MULLION SECTION DETAIL
3" = 1'-0"

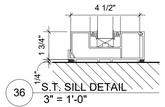


33 ST DOOR HEAD TRANSOM DETAIL
3" = 1'-0"

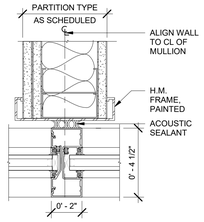


32 ST DOOR JAMB DETAIL
3" = 1'-0"

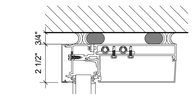
31 ST DOOR HEAD/JAMB DETAIL @ WALL
3" = 1'-0"



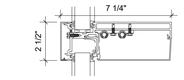
36 S.T. SILL DETAIL
3" = 1'-0"



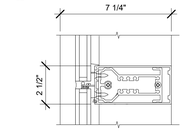
37 S.T. MULLION AT WALL DETAIL
3" = 1'-0"



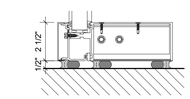
24 C.W. HEAD DETAIL
3" = 1'-0"



25 C.W. MULLION SECTION DETAIL
3" = 1'-0"



26 C.W. BUTT JOINT SECTION DETAIL
3" = 1'-0"



27 C.W. SILL DETAIL
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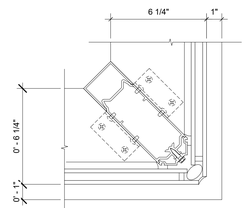
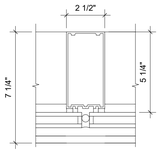


23 C.W. CORNER PLAN DETAIL
3" = 1'-0"



22 C.W. BUTT JOINT PLAN DETAIL
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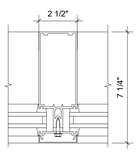
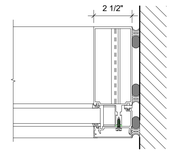


21 C.W. MULLION DETAIL
3" = 1'-0"



20 C.W. JAMB DETAIL
3" = 1'-0"

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BLOOMFIELD. CT 06002

PROJECT

CD SET

DRAWING TITLE

WINDOW SCHEDULE & DETAILS

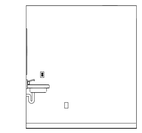
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

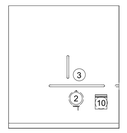
A5.01

2/15/2023 3:45:12 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



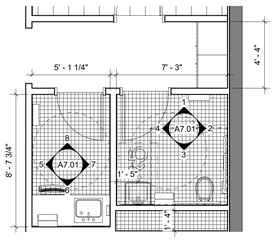
4 STAFF WC WEST
1/4" = 1'-0"

3 STAFF WC SOUTH
1/4" = 1'-0"

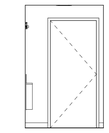


2 STAFF WC EAST
1/4" = 1'-0"

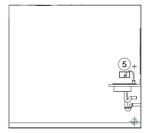
1 STAFF WC NORTH
1/4" = 1'-0"



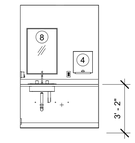
9 STAFF TOILET/LACTATION ROOM ENLARGED PLAN
1/4" = 1'-0"



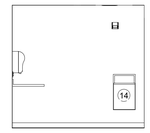
8 LACTATION ROOM NORTH
1/4" = 1'-0"



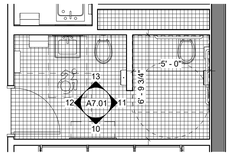
7 LACTATION ROOM EAST
1/4" = 1'-0"



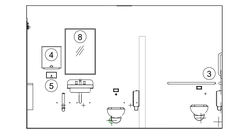
6 LACTATION ROOM SOUTH
1/4" = 1'-0"



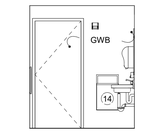
5 LACTATION ROOM WEST
1/4" = 1'-0"



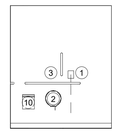
14 FAMILY WC ENLARGED PLAN
1/4" = 1'-0"



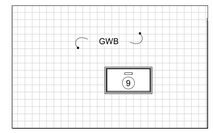
13 FAMILY WC NORTH
1/4" = 1'-0"



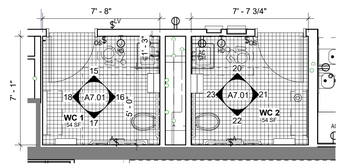
12 FAMILY WC WEST
1/4" = 1'-0"



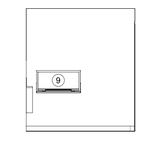
11 FAMILY WC EAST
1/4" = 1'-0"



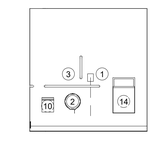
10 FAMILY WC SOUTH
1/4" = 1'-0"



19 GENERAL WC ENLARGED PLAN
1/4" = 1'-0"

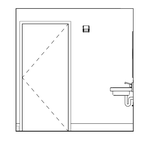


18 WC1 WEST
1/4" = 1'-0"



17 WC 1 SOUTH
1/4" = 1'-0"

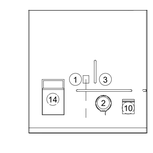
16 WC 1 EAST
1/4" = 1'-0"



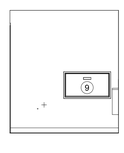
15 WC 1 NORTH
1/4" = 1'-0"

4

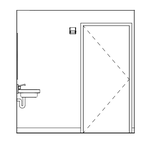
23 WC2 WEST
1/4" = 1'-0"



22 WC2 SOUTH
1/4" = 1'-0"



21 WC2 EAST
1/4" = 1'-0"



20 WC2 NORTH
1/4" = 1'-0"

DRAWINGS INCOMPLETE, SHEET TO BE REISSUED AT LATER DATE

TOILET ACCESSORIES KEY

1	CALL FOR AID
2	TOILET PAPER DISPENSER
3	GRAB BARS
4	PAPER TOWEL DISPENSER
5	SOAP DISPENSER
6	SWING UP GRAB BAR
7	GRAB BAR SHOWER
8	24" X 36" MIRROR (WITH FRAME)
9	CHANGING STATION
10	SANITARY NAPKIN DISPOSAL
11	TOWEL HOOK
12	SHOWER CURTAIN AND ROD
13	SEMI-RECESSED HAND DRYER
14	RECESSED WASTE RECEPTACLE
15	VITREOUS CHINA SOAP DISH

NOTE: REFER TO GENERAL INFORMATION SHEET A0.01 FOR FIXTURE LOCATION AND HEIGHT.

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PROJECT

CD SET

DRAWING TITLE

TOILET PLANS AND ELEVATIONS

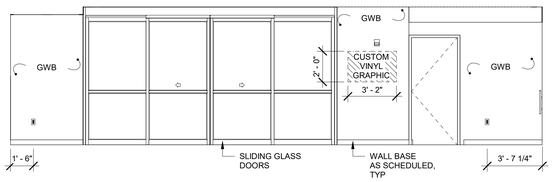
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

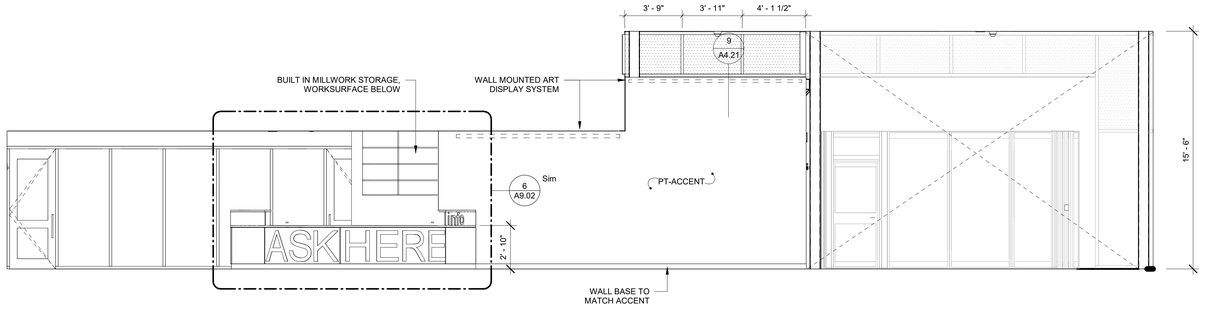
NO.	DATE	PURPOSE

A7.01

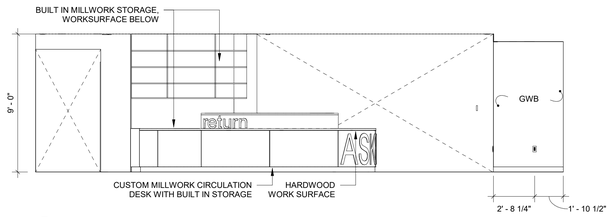
2/15/2023 4:08:14 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BM360-2021.rvt



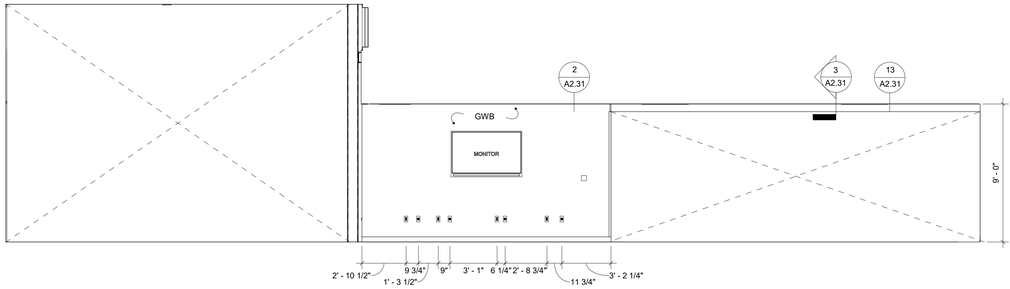
2 MAIN CORRIDOR WEST
1/4" = 1'-0"



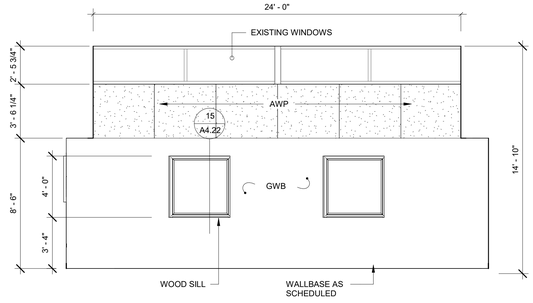
1 MAIN CORRIDOR NORTH
1/4" = 1'-0"



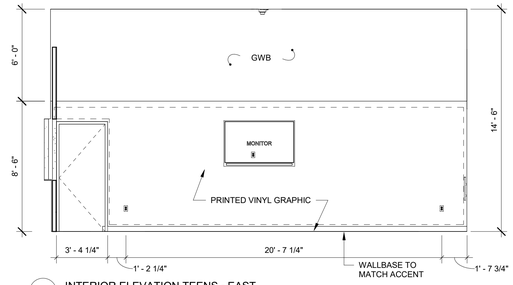
4 MAIN CORRIDOR EAST
1/4" = 1'-0"



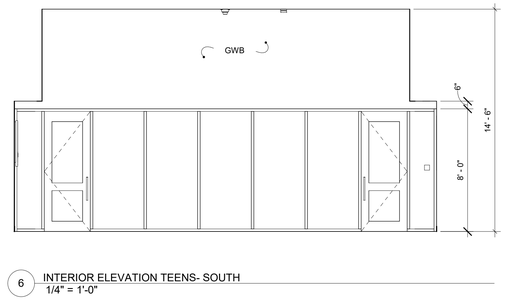
3 MAIN CORRIDOR SOUTH
1/4" = 1'-0"



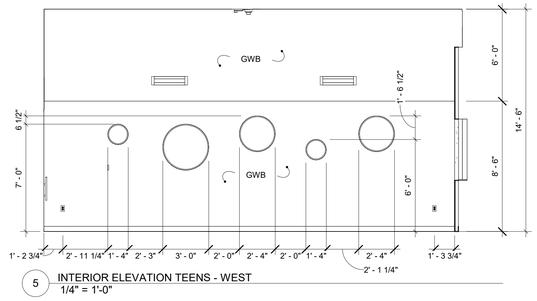
8 INTERIOR ELEVATION TEENS - SOUTH
1/4" = 1'-0"



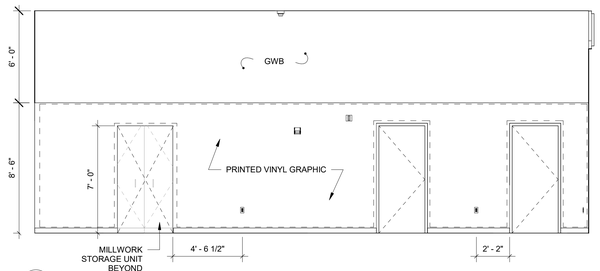
7 INTERIOR ELEVATION TEENS - EAST
1/4" = 1'-0"



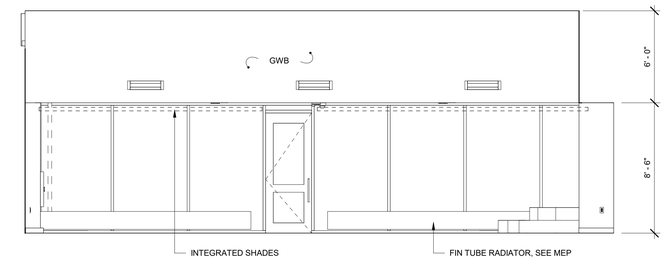
6 INTERIOR ELEVATION TEENS- SOUTH
1/4" = 1'-0"



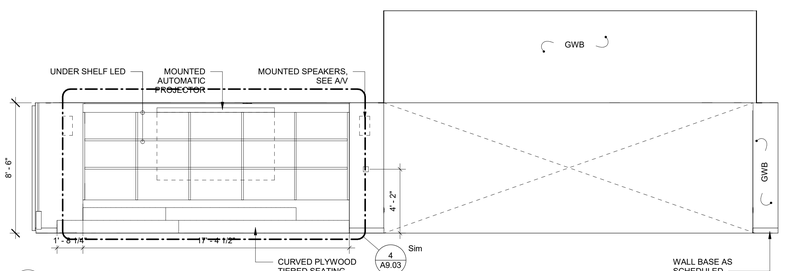
5 INTERIOR ELEVATION TEENS - WEST
1/4" = 1'-0"



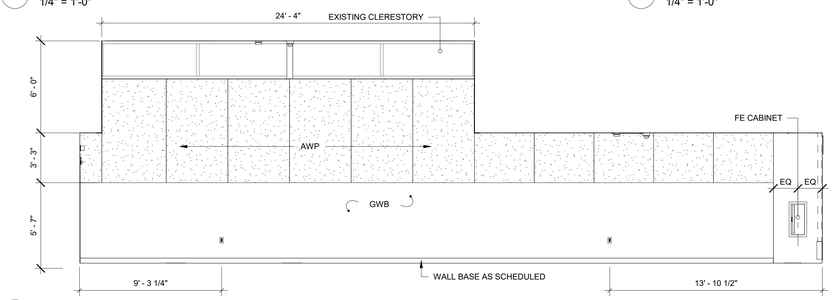
11 CHILDREN'S ROOM EAST
1/4" = 1'-0"



10 CHILDREN'S ROOM WEST
1/4" = 1'-0"



9 CHILDREN'S ROOM NORTH
1/4" = 1'-0"



12 CHILDREN'S ROOM SOUTH
1/4" = 1'-0"

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PROJECT

CD SET

DRAWING TITLE

INTERIOR ELEVATIONS CORRIDOR TEENS AND CHILDRENS

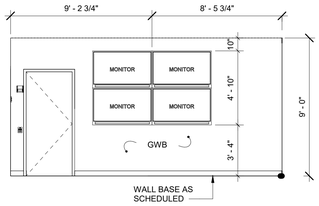
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

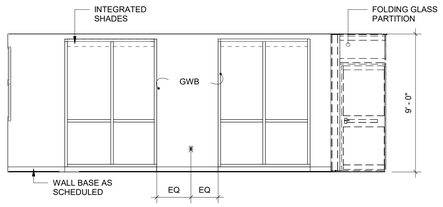
NO.	DATE	PURPOSE

A8.01

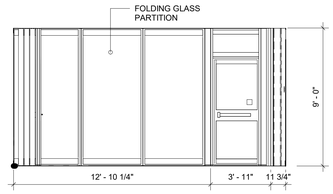
2/15/2023 4:08:17 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



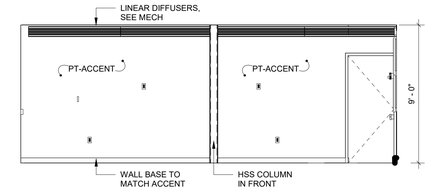
4 COMMUNITY ROOM NORTH
1/4" = 1'-0"



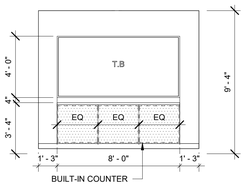
3 COMMUNITY ROOM EAST
1/4" = 1'-0"



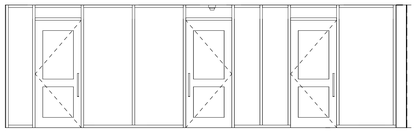
02 COMMUNITY ROOM SOUTH
1/4" = 1'-0"



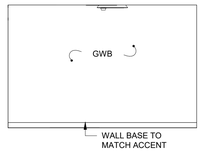
1 COMMUNITY ROOM WEST
1/4" = 1'-0"



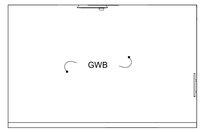
10 VESTIBULE WEST - SOUTH
1/4" = 1'-0"



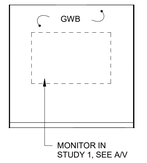
09 MEETING ROOMS
1/4" = 1'-0"



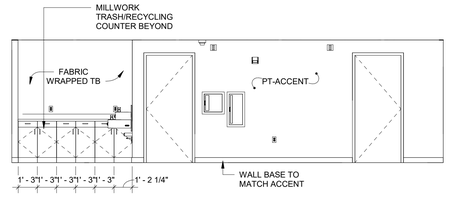
08 TYP. STUDY WEST
1/4" = 1'-0"



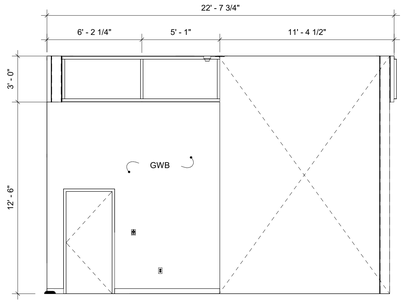
07 TYP. STUDY EAST
1/4" = 1'-0"



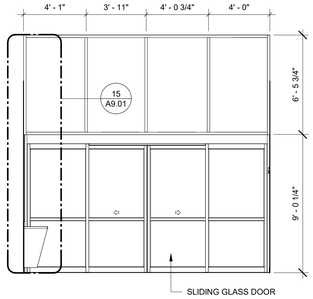
06 TYP. STUDY NORTH
1/4" = 1'-0"



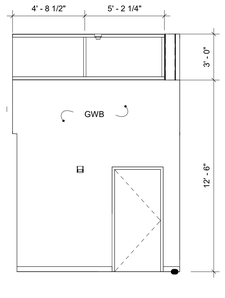
05 CORRIDOR SOUTH
1/4" = 1'-0"



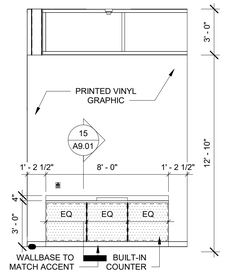
17 INTERIOR ELIDEVATION - CAFE - SOUTH
1/4" = 1'-0"



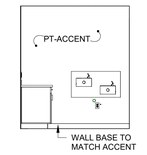
16 VESTIBULE EAST - WEST
1/4" = 1'-0"



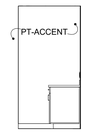
15 VESTIBULE EAST - NORTH
1/4" = 1'-0"



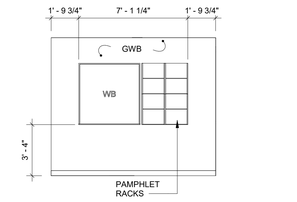
14 VESTIBULE EAST - SOUTH
1/4" = 1'-0"



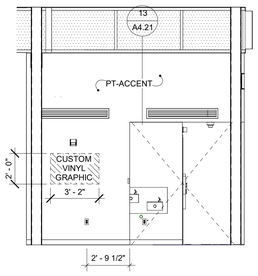
13 CORRIDOR EAST
1/4" = 1'-0"



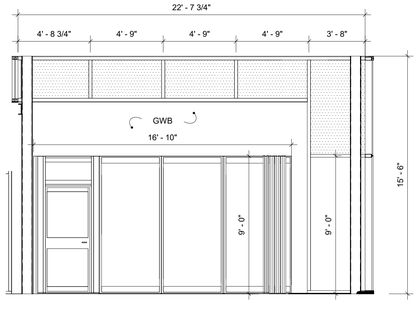
12 CORRIDOR WEST
1/4" = 1'-0"



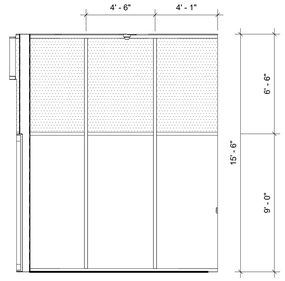
11 VESTIBULE WEST - NORTH
1/4" = 1'-0"



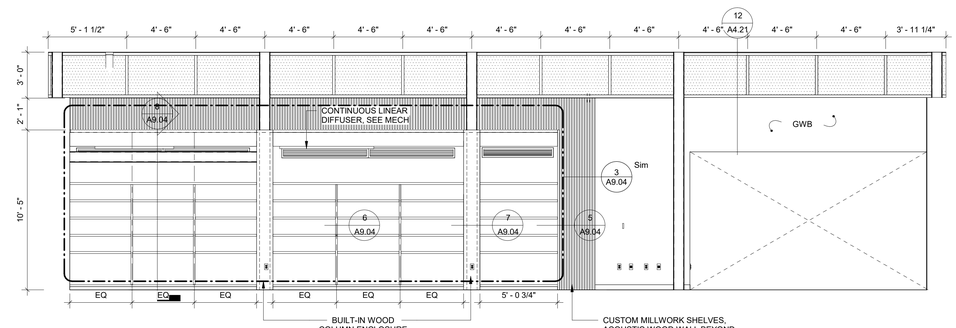
21 INTERIOR ELEVATION - CAFE - WEST
1/4" = 1'-0"



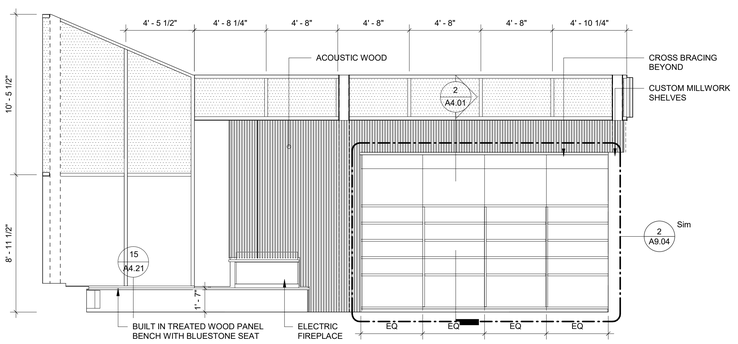
20 INTERIOR ELEVATION - CAFE - NORTH
1/4" = 1'-0"



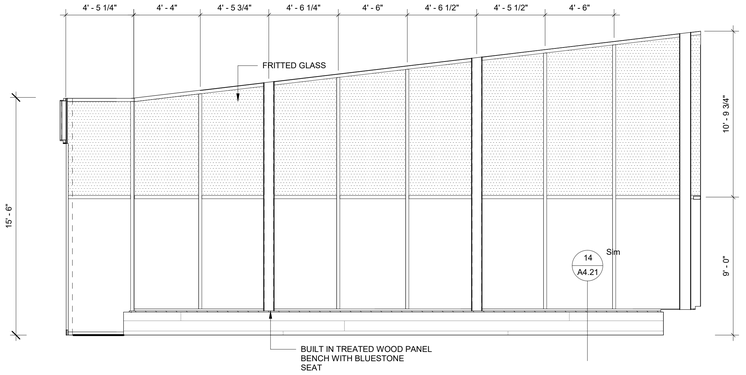
19 INTERIOR ELEVATION - CAFE - EAST
1/4" = 1'-0"



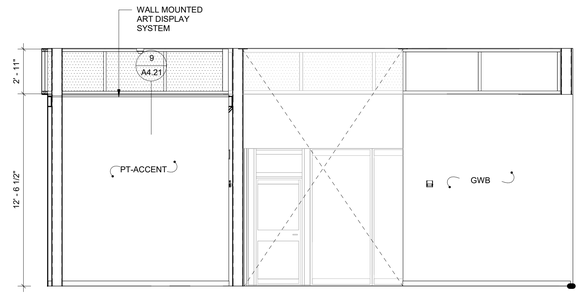
18 ADULTS - WEST
1/4" = 1'-0"



24 ADULTS - SOUTH
1/4" = 1'-0"



23 ADULTS - EAST
1/4" = 1'-0"



22 ADULTS - NORTH
1/4" = 1'-0"

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BLOOMFIELD. CT 06002

PROJECT

CD SET

DRAWING TITLE

INTERIOR ELEVATIONS
ADULTS, COMMUNITY, CAFE

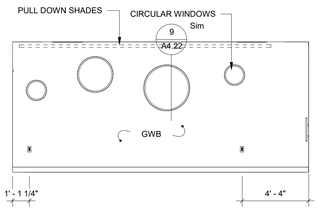
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

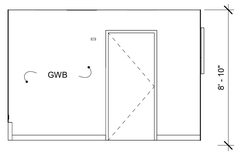
NO.	DATE	PURPOSE

A8.02

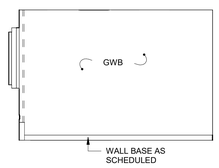
2/15/2023 4:08:22 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



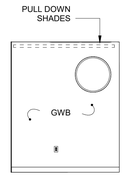
6 OFFICE 1 EAST
1/4" = 1'-0"



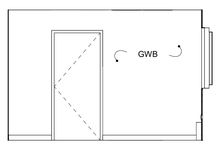
5 OFFICE 1 NORTH
1/4" = 1'-0"



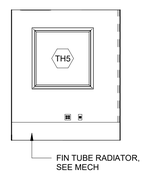
4 OFFICE 2 NORTH
1/4" = 1'-0"



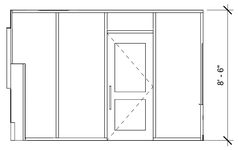
3 OFFICE 2 EAST
1/4" = 1'-0"



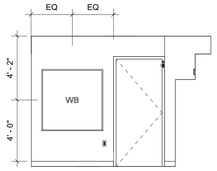
2 OFFICE 2 SOUTH
1/4" = 1'-0"



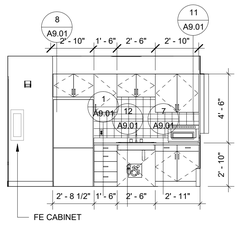
1 OFFICE 2 WEST
1/4" = 1'-0"



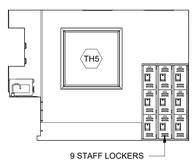
12 STAFF LOUNGE NORTH
1/4" = 1'-0"



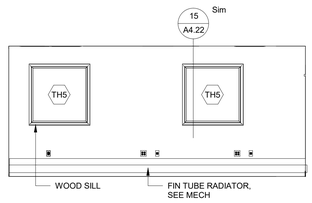
11 STAFF LOUNGE EAST
1/4" = 1'-0"



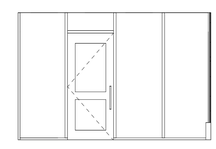
10 STAFF LOUNGE SOUTH
1/4" = 1'-0"



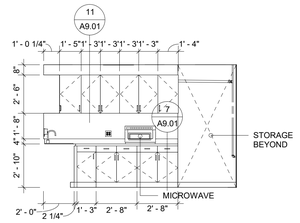
9 STAFF LOUNGE WEST
1/4" = 1'-0"



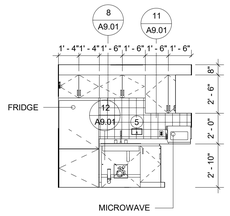
8 OFFICE 1 WEST
1/4" = 1'-0"



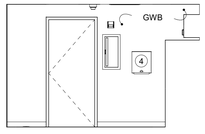
7 OFFICE 1 SOUTH
1/4" = 1'-0"



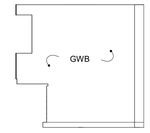
16 KITCH/STOR WEST
1/4" = 1'-0"



15 KITCH/STOR SOUTH
1/4" = 1'-0"



14 KITCH/STOR EAST
1/4" = 1'-0"



13 KITCH/STOR NORTH
1/4" = 1'-0"

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PROJECT

CD SET

DRAWING TITLE

INTERIOR ELEVATIONS STAFF SPACE

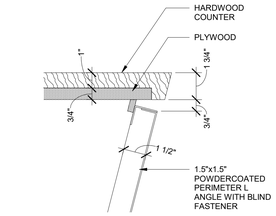
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

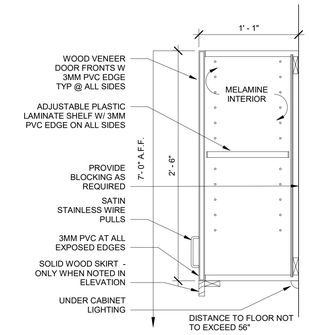
NO.	DATE	PURPOSE

A8.03

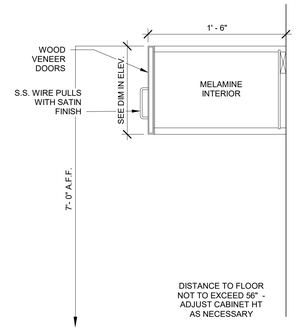
2/15/2023 4:08:25 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



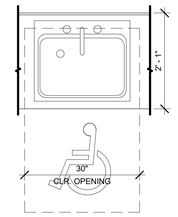
14 VESTIBULE CASEWORK DETAIL
3" = 1'-0"



11 CW - OVERHEAD CAB. SECT. (TYP)
1 1/2" = 1'-0"

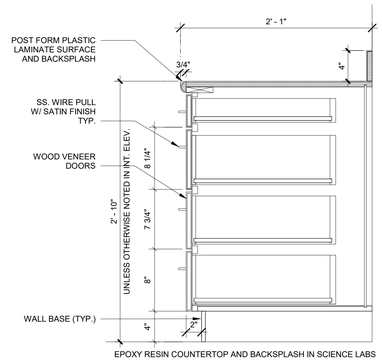


8 OVERHEAD CAB SECT
1 1/2" = 1'-0"

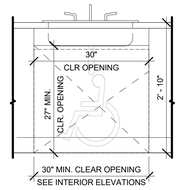


4 TYP. ADA SINK PLAN
3/4" = 1'-0"

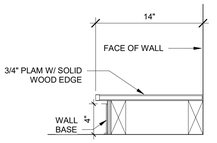
NOTE: CONTRACTOR TO ABIDE BY AWI STANDARDS FOR CUSTOM GRADE CABINETS. ECONOMY GRADE SHALL NOT BE ACCEPTED



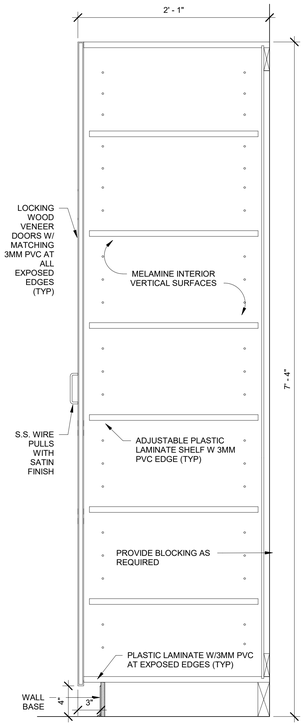
1 CW-BASE CAB. 4 DRAWER
1 1/2" = 1'-0"



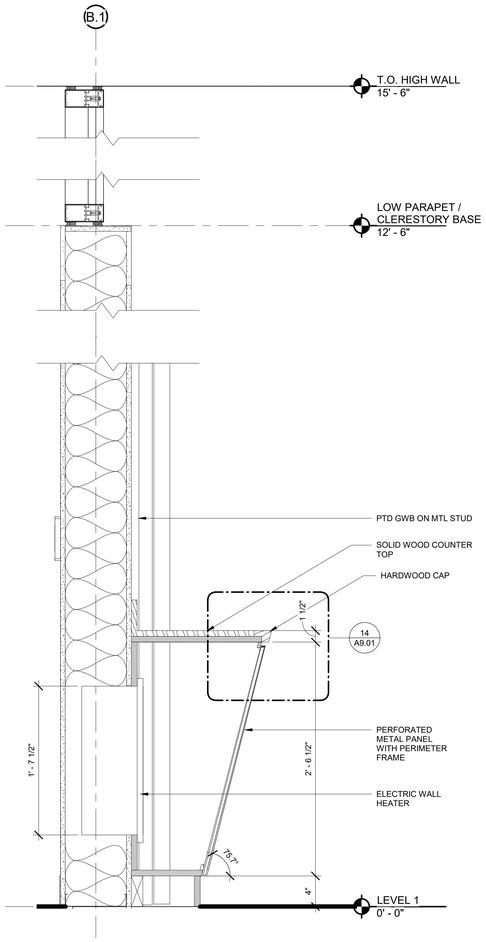
5 TYP. ADA SINK ELEVATION
3/4" = 1'-0"



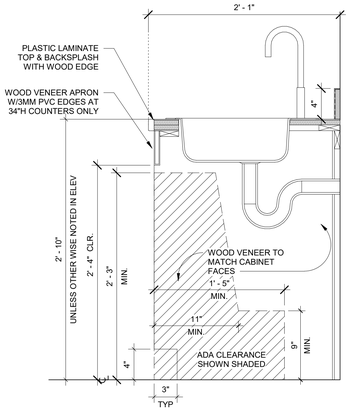
6 CW - LOW SHELF PLATFORM
1 1/2" = 1'-0"



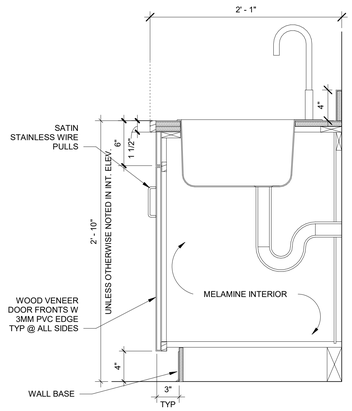
2 CW - TALL STORAGE CABINET (TYP)
1 1/2" = 1'-0"



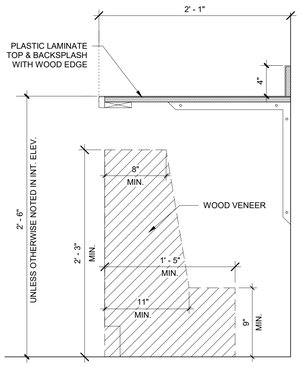
15 VESTIBULE COUNTER
1 1/2" = 1'-0"



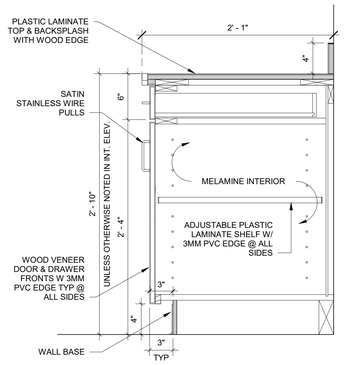
12 CW - ADA SINK SECTION (TYP)
1 1/2" = 1'-0"



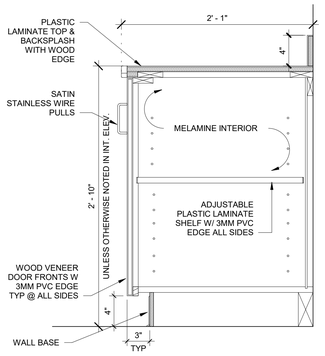
9 CW - BASE CABINET SINK SECTION (TYP)
1 1/2" = 1'-0"



13 CW - COUNTER SECTION TYP.
1 1/2" = 1'-0"



10 CW - BASE CAB. DOOR & DRAWER (TYP)
1 1/2" = 1'-0"



7 CW - BASE CABINET (TYP)
1 1/2" = 1'-0"

DRAWINGS INCOMPLETE, SHEET TO BE REISSUED AT LATER DATE

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146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY
1015 BLUE HILLS AVE.
BLOOMFIELD. CT 06002

PROJECT
CD SET

DRAWING TITLE
TPYICAL MILLWORK DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

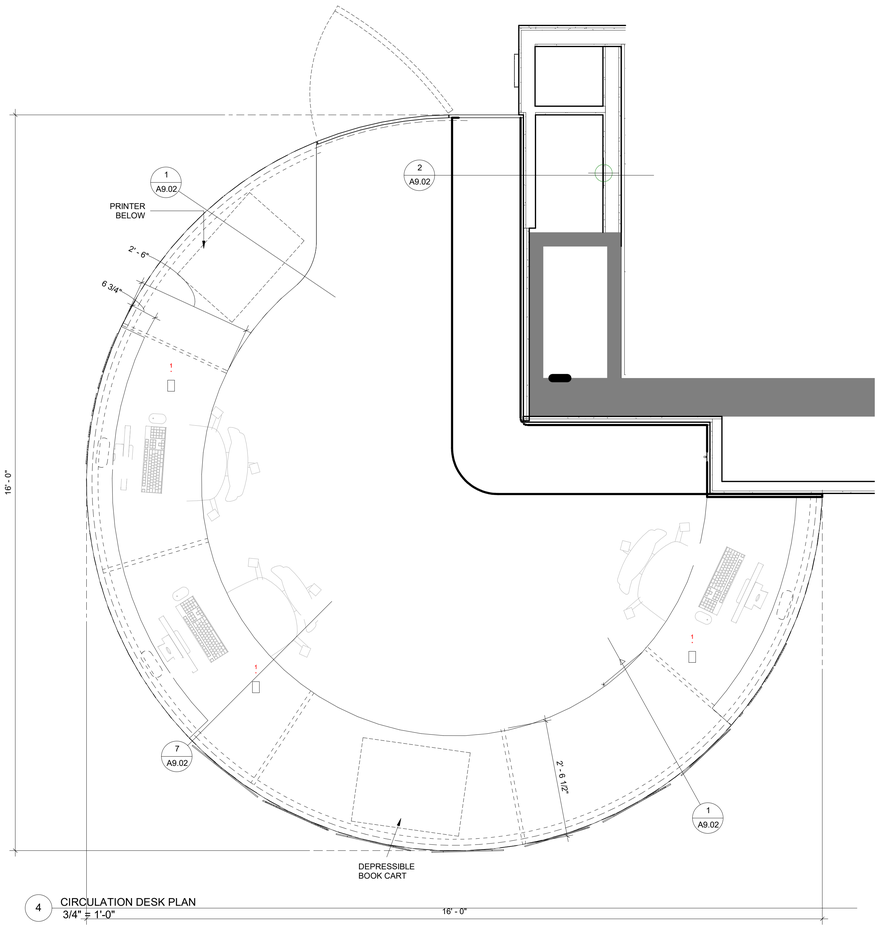
ISSUE DATES

NO.	DATE	PURPOSE

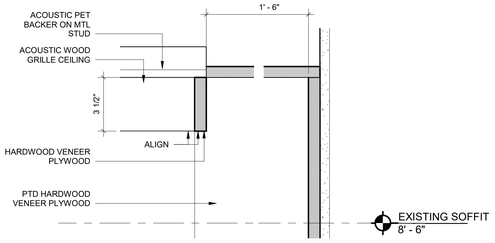
A9.01

2/15/2023 4:08:26 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt

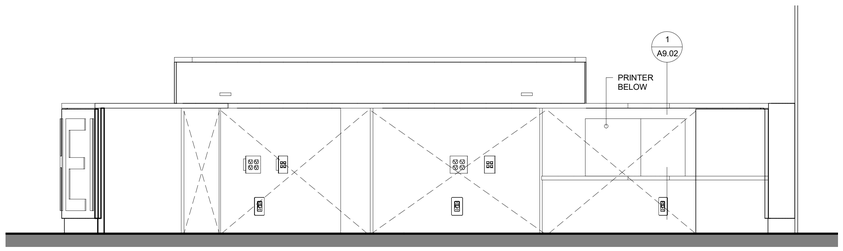
NOTE: CONTRACTOR TO ABIDE BY AWI STANDARDS FOR CUSTOM GRADE CABINETS. ECONOMY GRADE SHALL NOT BE ACCEPTED



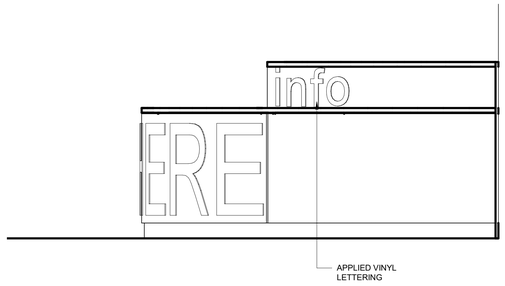
4 CIRCULATION DESK PLAN
3/4" = 1'-0"



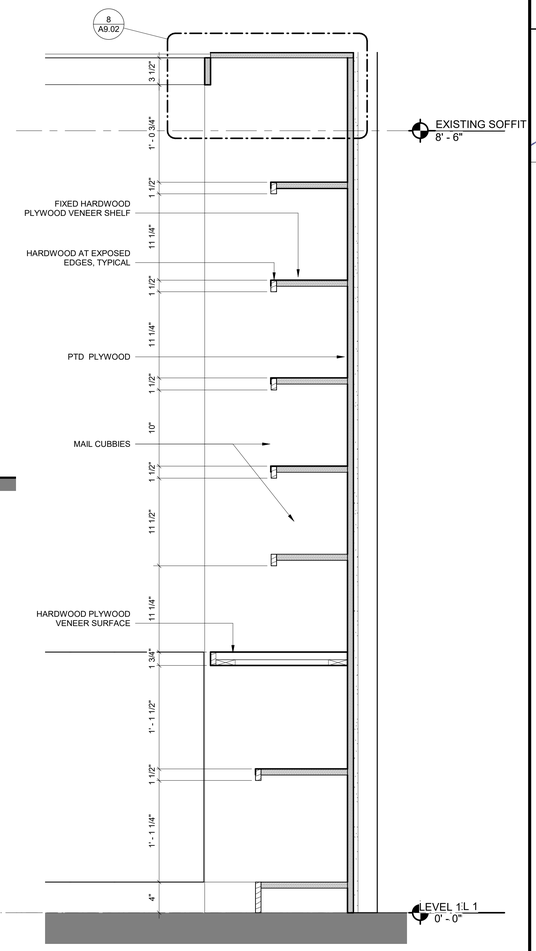
8 SECTION DETAIL @ CIRCULATION SHELVING MILLWORK EDGE
3" = 1'-0"



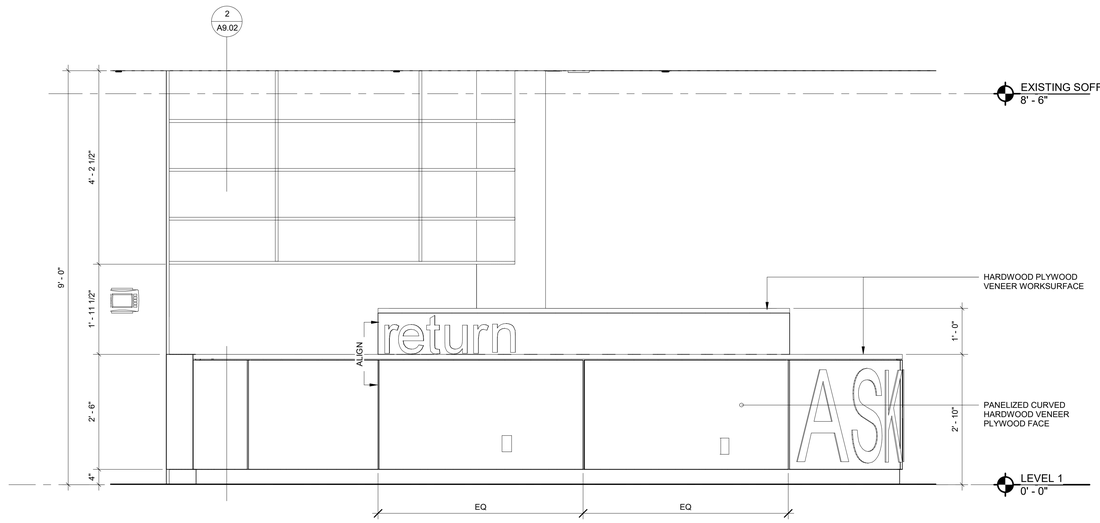
6 CIRCULATION DESK ELEVATION 3
3/4" = 1'-0"



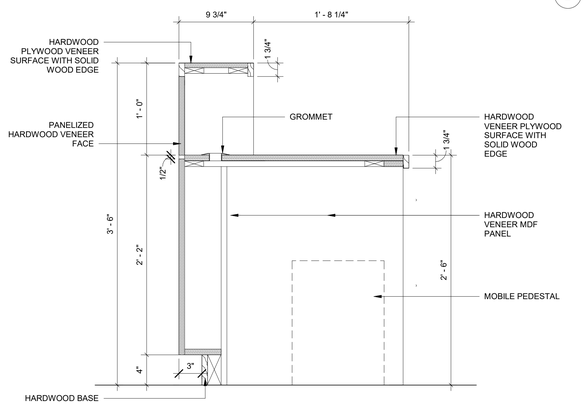
3 CIRCULATION DESK ELEVATION 2
3/4" = 1'-0"



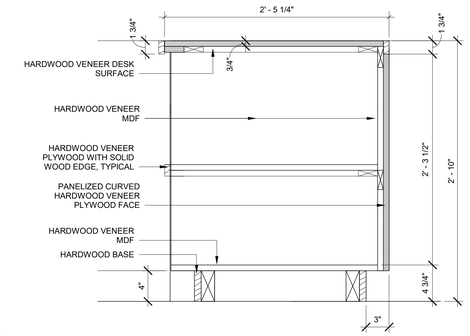
2 MILLWORK SECTION @ CIRCUALATION DESK
1 1/2" = 1'-0"



5 CIRCULATION DESK ELEVATION
3/4" = 1'-0"



7 CW - SECTION AT RECEPTION DESK
1 1/2" = 1'-0"



1 CW - TYP DESK SECTION @ OPEN SHELVES
1 1/2" = 1'-0"

DRAWINGS INCOMPLETE, SHEET TO BE REISSUED AT LATER DATE

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PROJECT

CD SET

DRAWING TITLE

MILWORK DETAILS - CIRCULATION

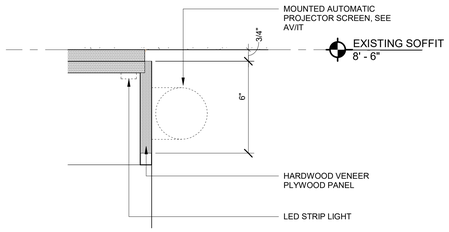
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

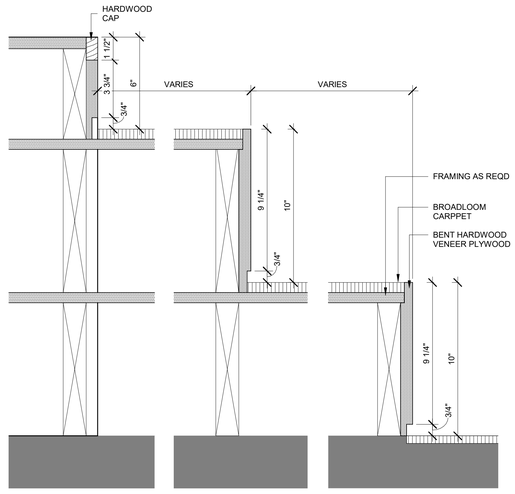
ISSUE DATES

NO.	DATE	PURPOSE

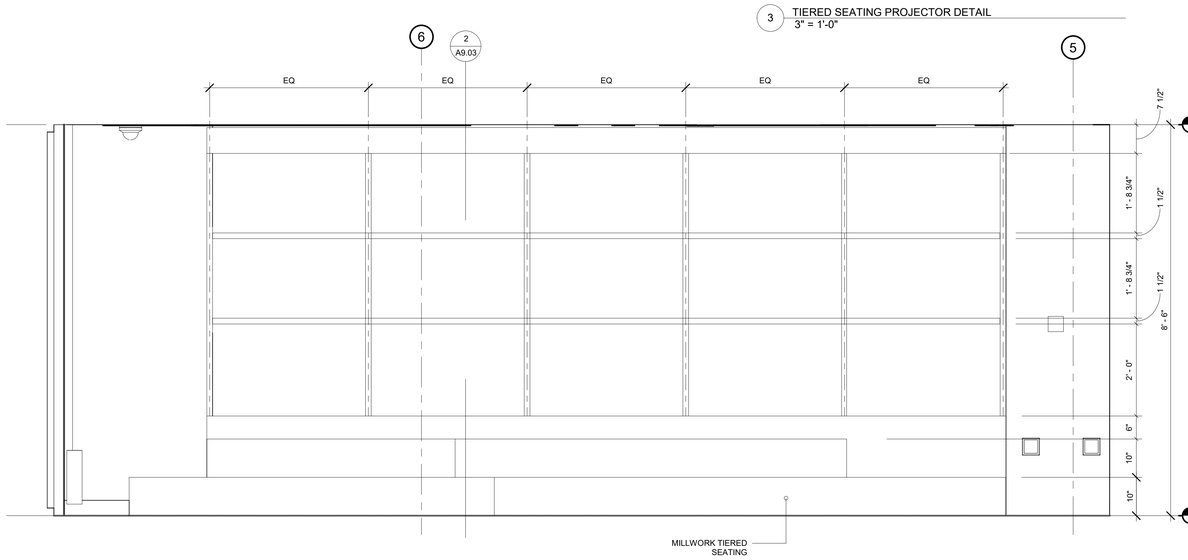
A9.02

2/15/2023 4:08:28 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BM360-2021.rvt



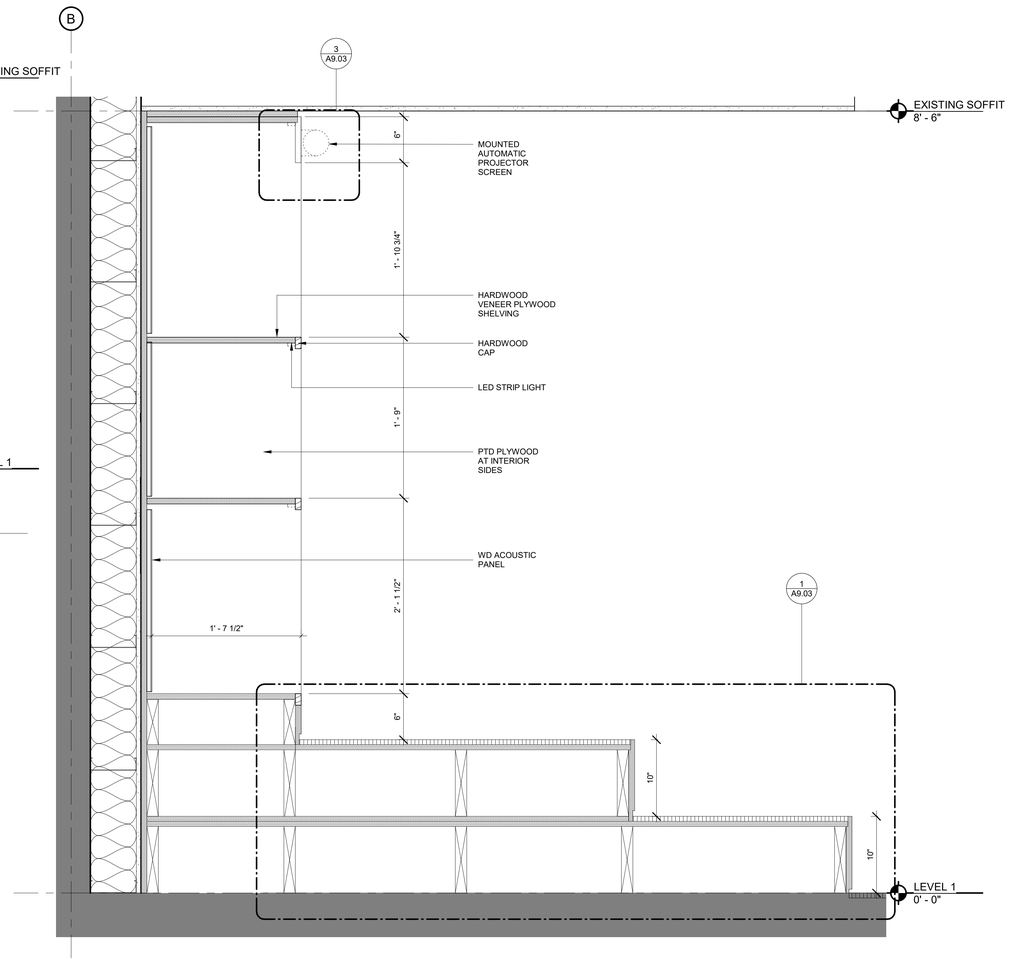


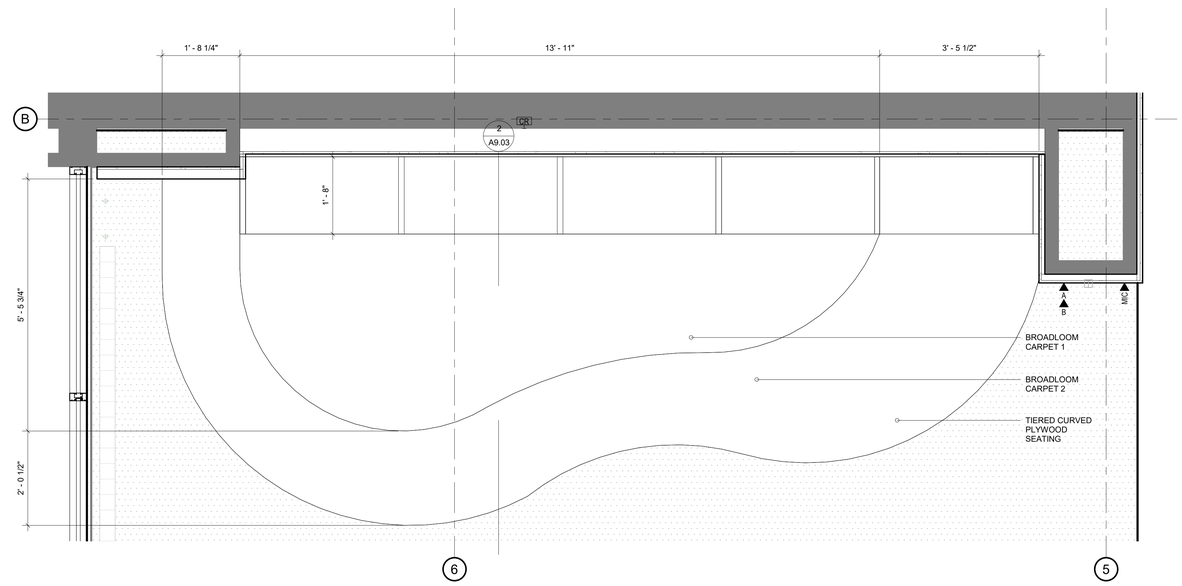
3 TIERED SEATING PROJECTOR DETAIL
3" = 1'-0"



4 TIERED SEATING ELEVATION
3/4" = 1'-0"

1 TIERED SEATING DETAIL
3" = 1'-0"





5 TIERED SEATING CALLOUT
3/4" = 1'-0"

2 SECTION @ TIERED SEATING
1 1/2" = 1'-0"

DRAWINGS INCOMPLETE, SHEET TO BE REISSUED AT LATER DATE

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1015 BLUE HILLS AVE.
BLOOMFIELD. CT 06002

PROJECT

CD SET

DRAWING TITLE

MILLWORK DETAILS - TIERED SEATING

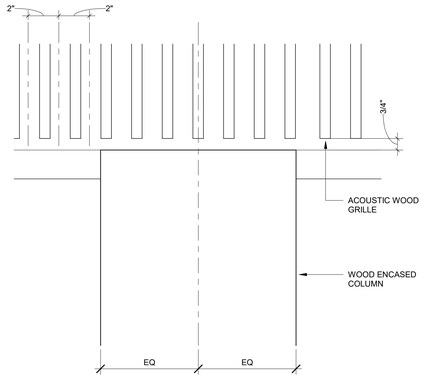
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

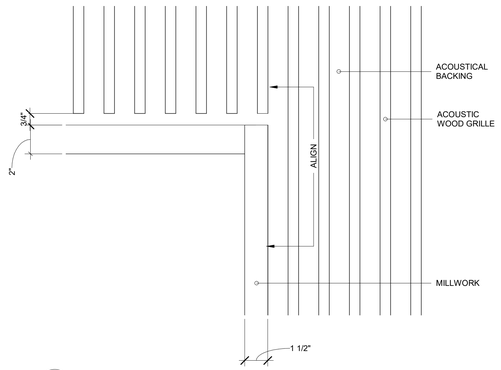
NO.	DATE	PURPOSE

A9.03

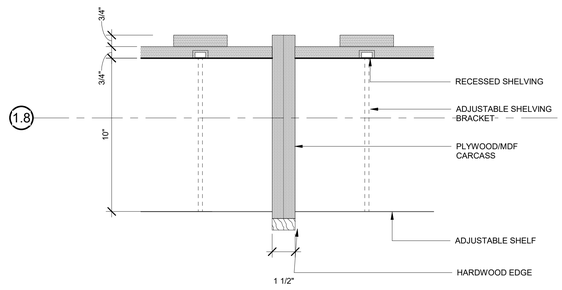
2/15/2023 4:08:29 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



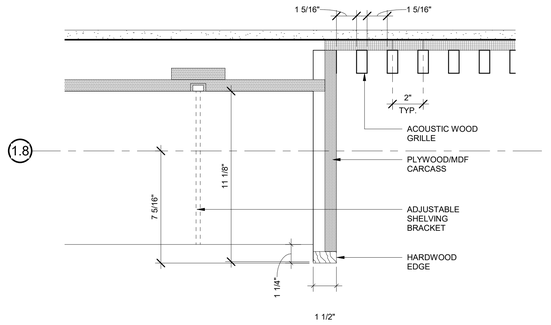
1 ELEVATION DETAIL @ ADULT MILLWORK COLUMN
3" = 1'-0"



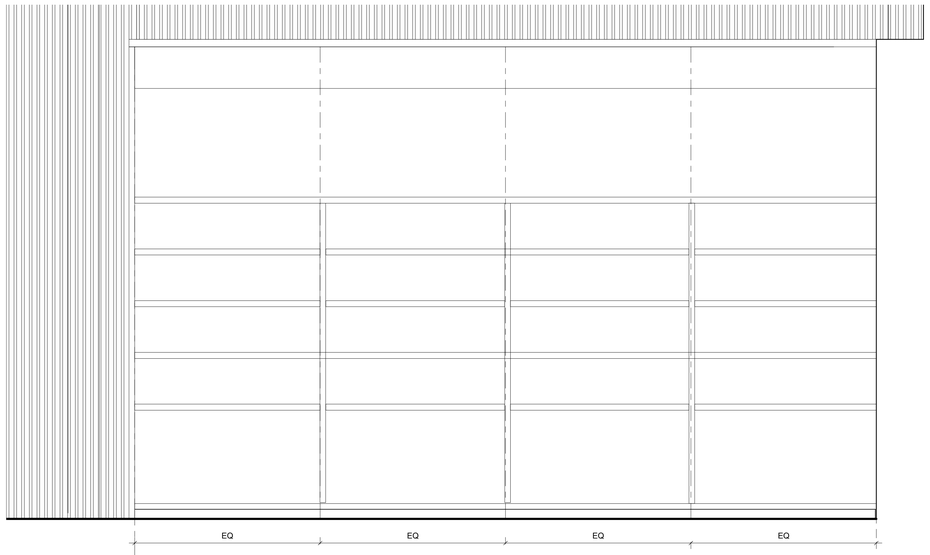
4 ELEVATION DETAIL @ ADULT MILLWORK CORNER
3" = 1'-0"



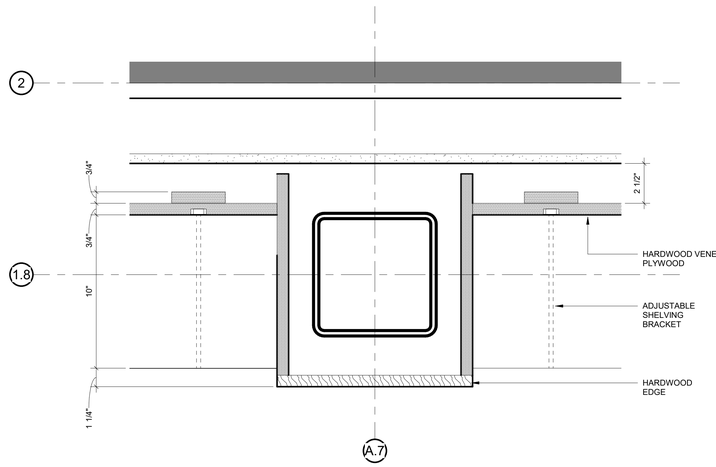
6 PLAN DETAIL @ ADULT ROOM MILLWORK
3" = 1'-0"



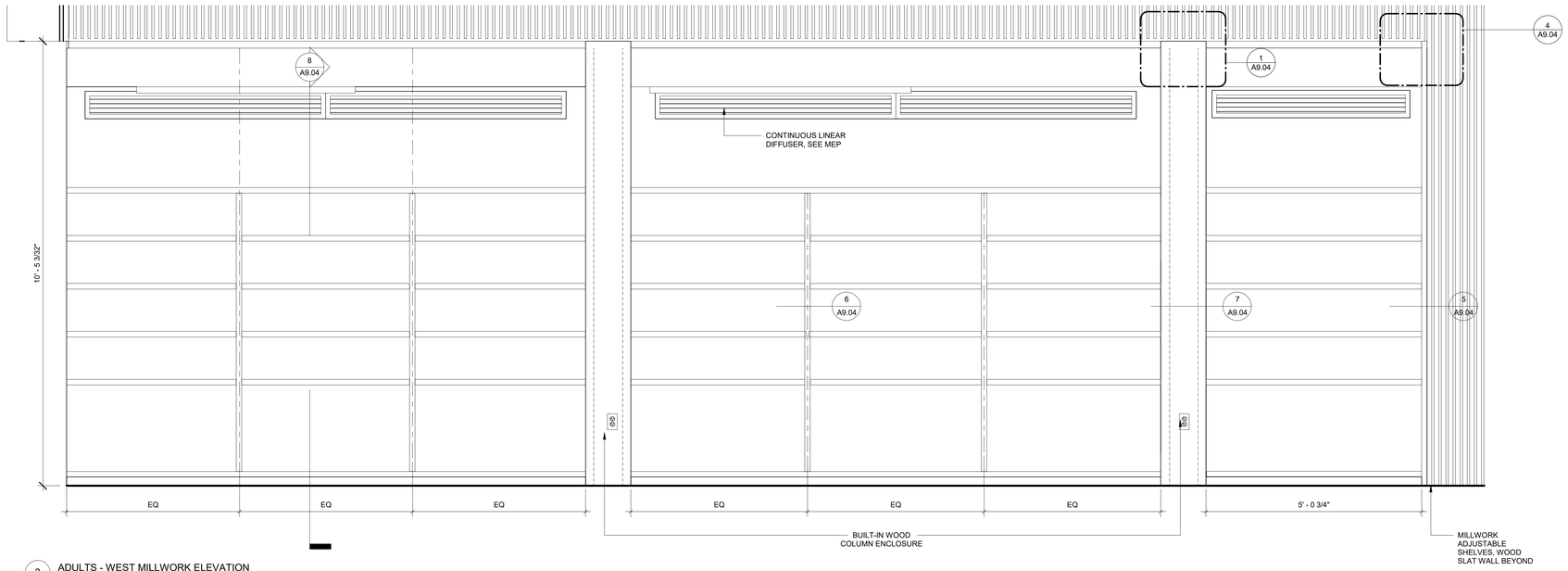
5 PLAN DETAIL @ ADULT ROOM MILLWORK EDGE
3" = 1'-0"



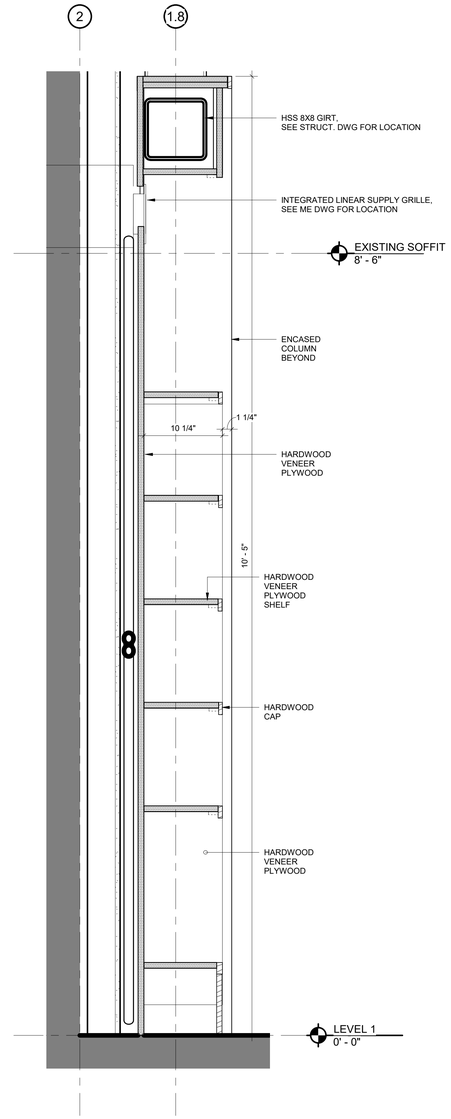
2 ADULTS - SOUTH MILLWORK ELEVATION
3/4" = 1'-0"



7 PLAN DETAIL @ ADULT ROOM MILLWORK COLUMN
3" = 1'-0"



3 ADULTS - WEST MILLWORK ELEVATION
3/4" = 1'-0"



8 SECTION DETAIL @ ADULT CASEWORK
1 1/2" = 1'-0"

DRAWINGS INCOMPLETE, SHEET TO BE REISSUED AT LATER DATE

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McMAHON WINTONBURY LIBRARY
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
CD SET

DRAWING TITLE
MILLWORK- ADULT ROOM

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A9.04

2/15/2023 4:08:31 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt

DOOR AND FRAME SCHEDULE

NUMBER	DETAIL DRAWING SHEET #	DOOR SIZE		DOOR TYPE / MATERIAL		FRAME TYPE / MATERIAL					FIRE RATING (MINUTES)	HARDWARE - SEE SPECIFICATIONSWT FIRECODE				DISABLED						HARDWARE SET NUMBER	SECURITY DEVICE	REMARKS
		WIDTH	HEIGHT	MATERIAL	TYPE	MATERIAL	TYPE	HEAD DETAIL	JAMB DETAIL	SADDLE DETAIL		PANIC RELEASE LATCH	POSITIVE LATCHING	AUTOMATIC CLOSER	E.M. HOLD OPEN	LEVER U-HANDLE	ACCESSIBLE THRESHOLD	PUSH/PULL	INTER. SYMBOL OF ACCESSIBILITY	SIGNAGE REQUIRED	TEXT			
104		3' - 0"	6' - 9 1/2"	HM	D1	HM	F1	H1	J1	T4	-	•	•			•	•			•	EXIT			
105		3' - 0"	7' - 0"	WOOD	D3	HM	F1	H1	J1	T5	-		•			•				•	KITCHENETTE / STORAGE			VISION GLASS
106		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T6	-		•			•				•	IT / AV			
108		3' - 0"	7' - 0"	ALUM	D4	ALUM	ST9			T7	-		•	•		•				•	STUDY ROOM			
109		3' - 0"	7' - 0"	ALUM	D4	ALUM	ST9			T7	-		•							•	STUDY ROOM			
110		3' - 0"	7' - 0"	ALUM	D4	ALUM	ST9			T7	-		•	•		•				•	STUDY ROOM			
111		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T5	-		•	•		•	•		•	•	WC			13, 15
112		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T5	-		•	•		•	•		•	•	WC			13, 15
114A		3' - 0"	7' - 10"	ALUM	D5	ALUM	ST10			T7	-		•	•		•				•	TEENS			19
114B		3' - 0"	7' - 10"	ALUM	D5	ALUM	ST10			T7	-		•			•				•	TEENS			
115		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T3	-		•	•		•				•	CUSTODIAL / MECHANICAL			
116		3' - 0"	7' - 0"	WOOD	D2	HM	F1	H1	J1	T7	-		•			•				•	STAFF LOUNGE	CR		VISION GLASS
117		3' - 0"	7' - 0"	ALUM	D4	ALUM	ST11			T7	-		•			•				•	OFFICE			
118		3' - 0"	7' - 0"	WOOD	D2	HM	F1	H1	J1	T7	-		•			•				•	OFFICE			
120		3' - 0"	7' - 10"	ALUM	D5	ALUM	ST8			T4	-		•	•		•	•		•	•	GARDEN EXIT	A, CR	CR both sides, 5	
121		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T3	-		•	•		•				•	ELECTRICAL			
123		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T5	-		•	•		•	•		•	•	LACTATION		13, 15	
124		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T5	-		•	•		•	•		•	•	STAFF WC		13, 15	
125		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T5	-		•	•		•	•		•	•	FAMILY WC		13, 15	
126		3' - 0"	7' - 0"	WOOD	D1	HM	F1	H1	J1	T3	-		•	•		•				•	STORAGE			
V101A		16' - 7 1/2"	8' - 11 3/4"	ALUM	SD	ALUM	SD	S2	S1	S3							•		•				CR	
V101B		15' - 11 1/2"	8' - 11 3/4"	ALUM	SD	ALUM	SD	S2	S1	S3														
V101C		3' - 0"	6' - 8"	WOOD	D4	HM	F1	H1	J1	T2	-	•	•	•		•	•		•					
V102A		17' - 7 1/2"	8' - 11 3/4"	ALUM	SD	ALUM	SD	S2	S1	S3							•		•				CR	
V102B		16' - 6 1/2"	8' - 11 3/4"	ALUM	SD	ALUM	SD	S2	S1	S3							•		•				CR	

REMARKS:

1 - COUNTER MOUNTED COILING SECURITY GRILLE
2 - OVERHEAD COILING DOOR
3 - ACOUSTIC GASKETING REQUIRED
4 - DOOR OPERATOR
5 - CONTACTS
6 - SOUND SEAL
7 - VERIFY WINDOW SCHEDULE FOR GLAZING TYPE
8 - DOOR SIZE AND FRAME DETAILS ARE TO BE V.I.F
9 - KNURLED HANDLE
10 - NO LOCKING HARDWARE
11 - EXIT ONLY
12 - 1" DOOR UNDERCUT
13- PRIVACY/ OCCUPANCY LOCK
14- CUSTOM VINYL GRAPHIC - TO BE SELECTED BY OWNER
15- SIGNAGE INDICATING "ALL-GENDER RESTROOM"
16- SIGNAGE INDICATING " CARBON MONOXIDE DETECTOR LOCATED INSIDE MECHANICAL ROOM"
17- SIGNAGE INDICATING "SHIPPING AND RECEIVING - USE INTERCOM FOR SERVICE"
18- SIGNAGE INDICATING " VISITOR CHECK IN AT MAIN ENTRY"
19- SIGNAGE INDICATING "MAXIMUM OCCUPANCY NOT TO EXCEED ___" (SEE INDIVIDUAL ROOM CODE OCCUPANCY FOR APPROPRIATE NUMBERS)
20- SIGNAGE INDICATING HAZARD/ SAFETY SIGNAGE (OSHA)

CR - CARD READER
A- AUDIBLE ALARM

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BLOOMFIELD. CT 06002

PROJECT

CD SET

DRAWING TITLE

DOOR SCHEDULE

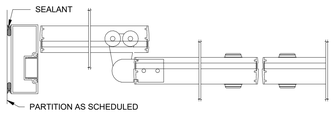
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

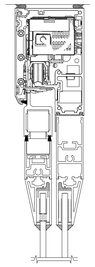
NO.	DATE	PURPOSE

A11.01

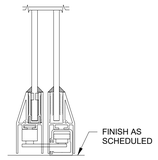
2/15/2023 3:37:20 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt



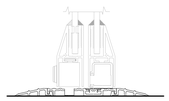
SD1 **ALUMINUM SLIDING DOOR JAMB**



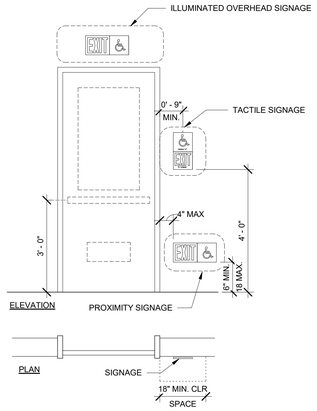
SD2 **ALUMINUM SLIDING DOOR HEADER**



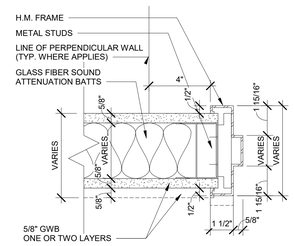
SD3 **ALUMINUM SLIDING DOOR SILL**



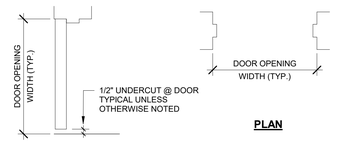
SD3B **ALUMINUM SLIDING DOOR SILL W/ THRESHOLD**

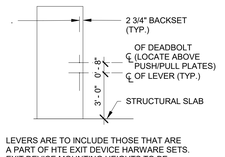


3 TYPICAL SIGNAL CONFIGURATION
1/2" = 1'-0"

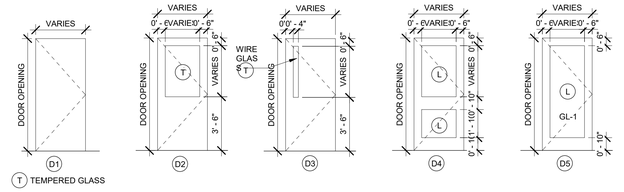


J1 H1 **NOTE: SEE PARTITION TYPES**



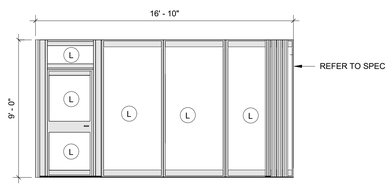


1 TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"

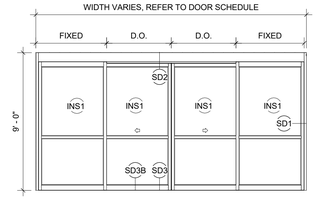


18 DOOR TYPES
1/4" = 1'-0"

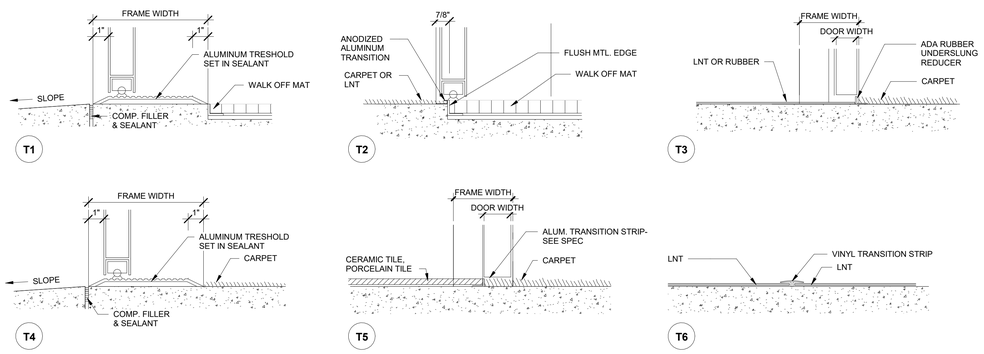
17 DOOR FRAME TYPES
1/4" = 1'-0"



19 FOLDABLE GLASS PARTITION
1/4" = 1'-0"



20 SLIDING DOOR AT VESTIBULES
1/4" = 1'-0"



THRESHOLD TYPES

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DRAWING TITLE

DOOR FRAME TYPES AND DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A11.02

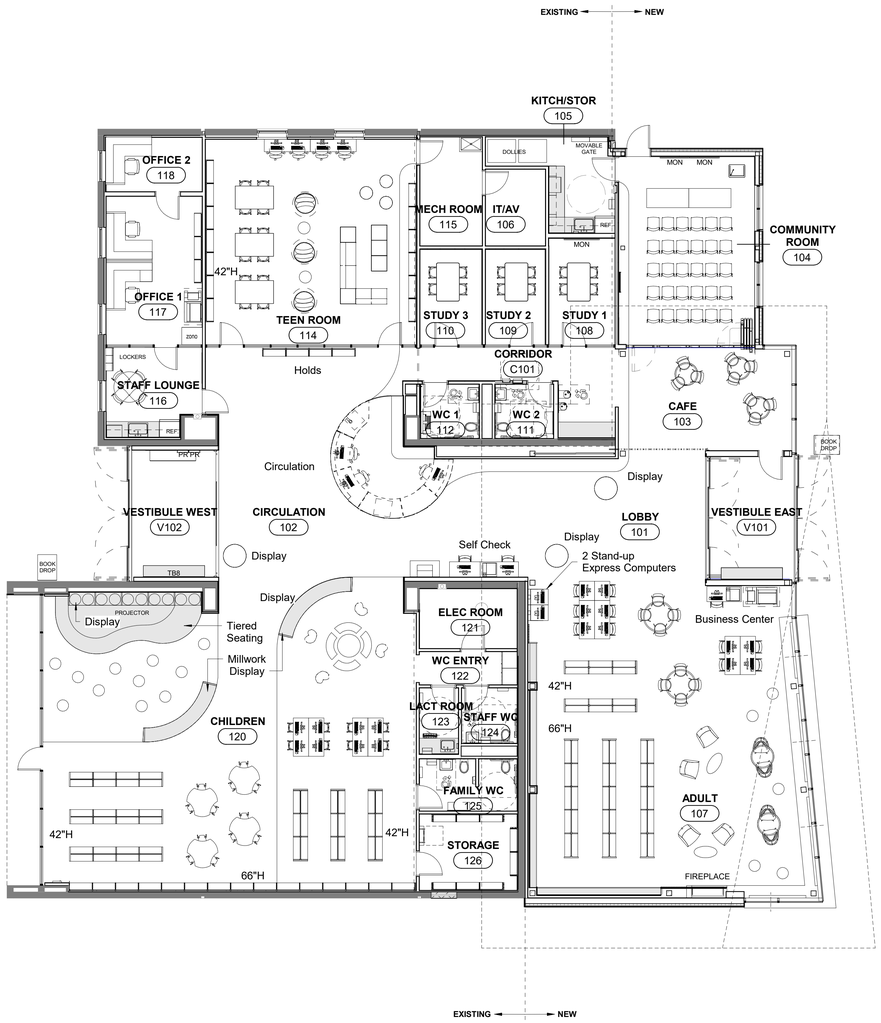
2/15/2023 3:38:20 PM BIM 360://Bloomfield Library - McMahon Building/221010 - McMahon Library-Arch-BIM360-2021.rvt

FINISH SCHEDULE LEGEND

ACT - ACOUSTIC TILE	CT - CERAMIC TILE	RB - RUBBER
AC GYP - ACOUSTIC GYPSUM	EXTG - EXISTING	LNT - LINOLEUM TILE
AWP - ACOUSTICAL WALL PANELS	GL - GLASS	WD - WOOD
CPT - CARPET TILE	GYP - GYPSUM WALL BOARD	WOM - WALK OFF MAT
	PT - PORCELAIN TILE	
	P - PAINTED	

ROOM FINISH SCHEDULE

RM. NO	ROOM NAME	FLOOR	BASE				NORTH		EAST		SOUTH		WEST		CEILING			REMARKS
			NORTH	EAST	SOUTH	WEST	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	ACT TYPE	HGT	
101	LOBBY	CPT-1, CPT-2	RB				GYP	P	GL						AC GYP		14' 6"	
102	CIRCULATION	CPT-1, CPT-2	RB		RB	RB	GYP	P			GYP	P	GYP	P	WD		9' 0"	FIXTURE K ABOVE DESK TO BE FIELD PTD TO MATCH ACCENT
103	CAFE	CPT-1			RB		GL		GL		GYP	P	GYP	P	AC GYP		14' 6"	
104	COMMUNITY ROOM	CPT-1	RB	RB		RB	GYP	P	GYP	P	GYP	P	GYP	P	WD		9' 0"	
105	KITCH/STOR	CT	RB	RB	RB	RB	GYP	P	GYP	P	CT		GYP	P	ACT-2	2X2	8' 0"	
106	IT/AV	LNT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P	ACT	2X2	8' 0"	
107	ADULT	CPT-1	RB	RB	RB	RB			GL		WD		WD		AC GYP			WEST AND SOUTH ACOUSTIC WOOD WALL ON GYP
108	STUDY 1	CPT-1	RB	RB		RB	GYP	P	GYP	P	GL	P	GYP	P	ACT	2X2	8' 0"	
109	STUDY 2	CPT-1	RB	RB		RB	GYP	P	GYP	P	GL	P	GYP	P	ACT	2X2	8' 0"	
110	STUDY 3	CPT-1	RB	RB		RB	GYP	P	GYP	P	GL	P	GYP	P	ACT	2X2	8' 0"	
111	WC 2	PT	CT	CT	CT	CT	GYP	P	GYP	P	GYP	P	CT		ACT-2	2X2	8' 0"	
112	WC 1	PT	CT	CT	CT	CT	GYP	P	CT		GYP	P	GYP	P	ACT-2	2X2	8' 0"	
114	TEEN ROOM	CPT-1, CPT-3	RB	RB	RB	RB	AWP	P	GYP	P	GYP	P	GYP	P	ACT	2X2	14' 6"	
115	MECH ROOM	LNT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P	ACT	2X2		
116	STAFF LOUNGE	CT		CT	CT	CT	GL		GL		CT		GYP	P	ACT-2	2X2	8' 6"	
117	OFFICE 1	CPT-1	RB	RB	RB	RB	GYP	P	GYP	P					ACT	2X2	8' 6"	
118	OFFICE 2	CPT-1	RB	RB	RB	RB			GYP	P					ACT	2X2	8' 6"	
120	CHILDREN	CPT-1, CPT-3	RB	RB	RB	RB			GYP	P	AWP	P			ACT	2X2	14' 6", 8' 6"	ACT AT HIGH CEILING, GYP WITH RECESSED ROUND ACP AT LOW CEILING
121	ELEC ROOM	LNT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
122	WC ENTRY	CPT-3	RB	RB	RB	RB									ACT-2		8' 0"	
123	LACT ROOM	PT	CT	CT	CT	CT	GYP	P	GYP	P	CT		GYP	P	ACT-2	2X2	8' 0"	
124	STAFF WC	PT	CT	CT	CT	CT	GYP	P	GYP	P	CT		GYP	P	ACT-2	2X2	8' 0"	
125	FAMILY WC	PT	CT	CT	CT	CT	CT		GYP	P	GYP	P	GYP		ACT-2	2X2	8' 0"	
126	STORAGE	LNT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P	ACT	2X2	8' 0"	
C101	CORRIDOR	CPT-2			RB		GL				GYP	P			GYP		8' 0"	
V101	VESTIBULE EAST	WOM	RB	RB	RB	RB	GYP	P	GL		GYP	P	GL		GYP		9' 0"	
V102	VESTIBULE WEST	WOM	RB		RB		GYP	P			GWB	P			AC GYP		15' 6"	



1 FIRST FLOOR FUNITURE PLAN
1/8" = 1'-0"

2 LEVEL 1 PATTERN PLAN
1/8" = 1'-0"

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DRAWING TITLE

FIRST FLOOR FURNITURE AND FINISH PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

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F1.01

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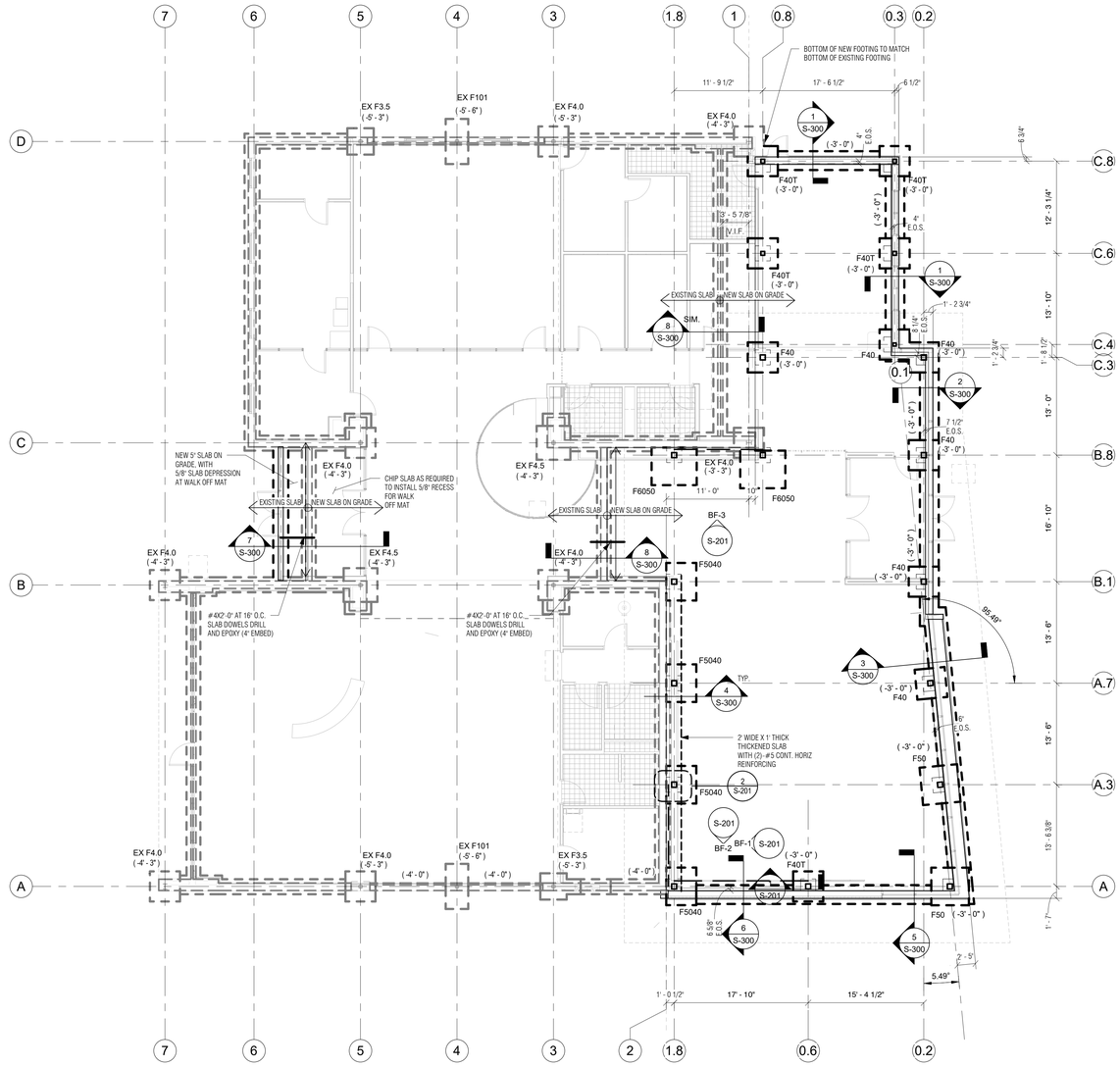

1 FOUNDATION AND FIRST FLOOR PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. TOP OF CONCRETE SLAB ELEVATION= REFER TO PLAN
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS.
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S-700 , AND "TYPICAL SLAB ON GRADE DETAILS" ON SHEET S-600
4. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM MAIN LEVEL ELEVATION (0'-0").
5. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS.
6. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S-600 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS.
7. "C.J." INDICATES FOUNDATION WALL CONTROL JOINT. REFER TO TYPICAL DETAIL ON DRAWING S-600
8. R INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.

FOOTING SCHEDULE 2.0 TONS/SF

Mark	Footing Size			Reinf Each Way		Remarks
	Length	Width	Thickness	No.	Size	
F40	4' - 0"	4' - 0"	1' - 3"	7	#4	
F40T	4' - 0"	4' - 0"	1' - 3"	7	#4	REINF. TOP AND BOTTOM
F50	5' - 0"	5' - 0"	1' - 3"	6	#5	
F5040	5' - 0"	4' - 0"				REINF. TOP AND BOTTOM, REFER TO SECTION
F6050	6' - 0"	5' - 0"				REINF. TOP AND BOTTOM, REFER TO SECTION

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KEY PLAN

DRAWING TITLE

FOUNDATION PLAN

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S-101

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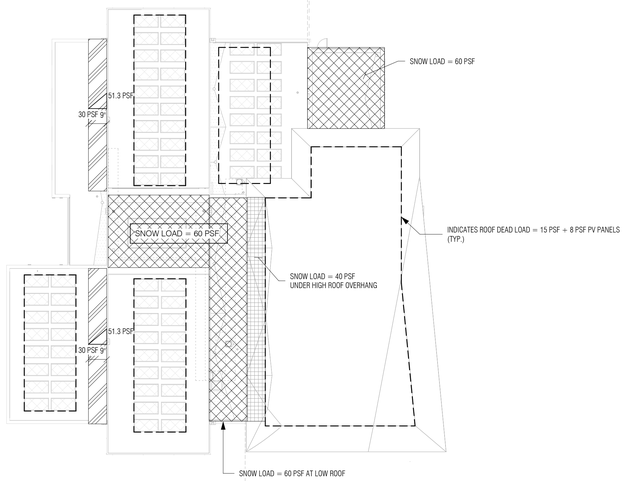


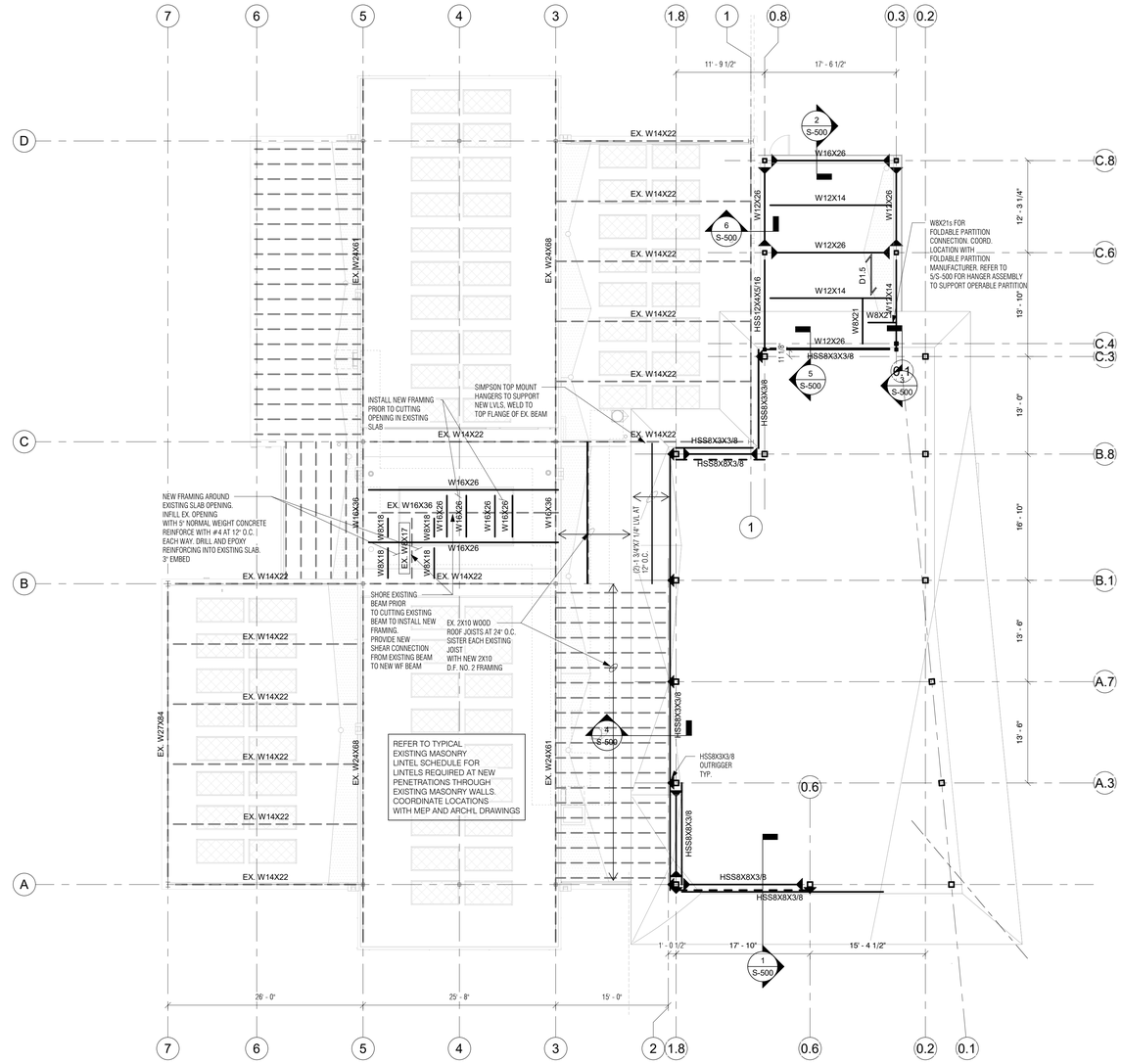
2 ROOF LOADING PLAN

1/16" = 1'-0"

ROOF LOADING PLAN NOTES:

ROOF LOADING SHALL BE DEAD LOAD = 15 PSF AND SNOW LOAD = 30 PSF UNLESS NOTED OTHERWISE ON PLAN.

REFER TO PLAN FOR SNOW DRIFTS LOCATIONS AND WIDTHS.



1 LOW ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF CONSTRUCTION NOTES:

1. D1.5 TYPICAL ROOF CONSTRUCTION: 1 1/2 "X20GA. GALVANIZED TYPE "B" METAL ROOF DECK, REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING FRAMING SIZES, SPACING AND LOCATIONS PRIOR TO SUBMITTING SHOP DRAWINGS
3. " INDICATES MOMENT CONNECTION, REFER TO TYPICAL DETAILS ON DRAWING S-601
4. ALL BEAM FRAMING SHALL HAVE EQUAL SPACING BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.
5. REFER TO DRAWING S-601 FOR ALL ROOF FRAMES AT OPENINGS. COORDINATE ALL OPENING LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ALL OPENING, DRAINS AND EQUIPMENT. PROVIDE FRAMES PER TYPICAL DETAILS

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

LOW ROOF FRAMING PLAN

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S-102

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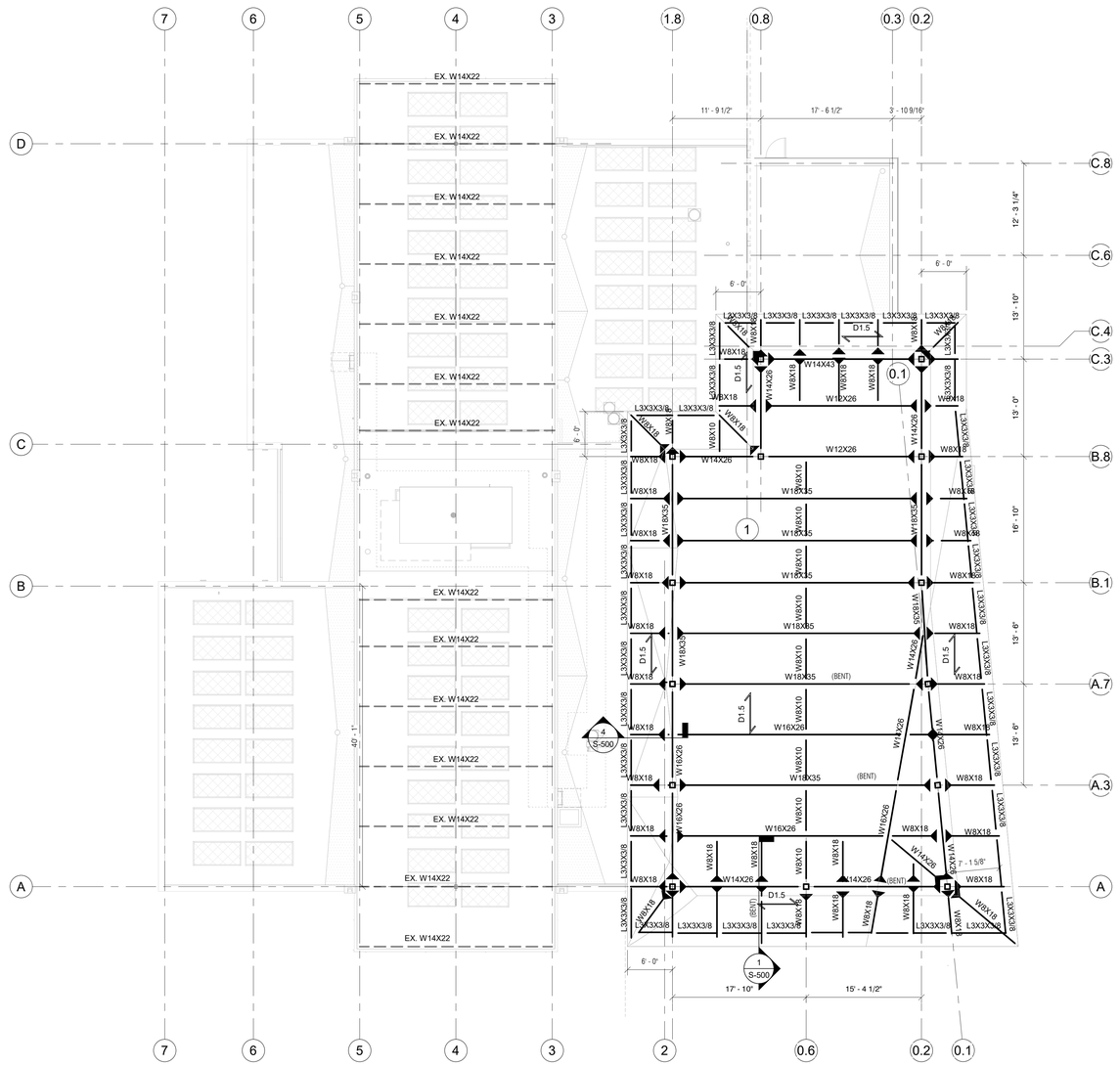

1 ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF CONSTRUCTION NOTES:

1. D1.5 — TYPICAL ROOF CONSTRUCTION: 1 1/2 "X20GA. GALVANIZED TYPE 'B' METAL ROOF DECK, REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING FRAMING SIZES, SPACING AND LOCATIONS PRIOR TO SUBMITTING SHOP DRAWINGS
3. INDICATES MOMENT CONNECTION. REFER TO TYPICAL DETAILS ON DRAWING S-601
4. ALL BEAM FRAMING SHALL HAVE EQUAL SPACING BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.
5. REFER TO DRAWING S-601 FOR ALL ROOF FRAMES AT OPENINGS. COORDINATE ALL OPENING LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ALL OPENING, DRAINS AND EQUIPMENT. PROVIDE FRAMES PER TYPICAL DETAILS

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

ROOF FRAMING PLAN

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S-103

2/15/2023 9:36:59 AM BIM 360://Bloomfield Library - McMahon Building/21-241B Wintonbury Library Site STRUCT.rvt

COLUMN SCHEDULE

Roof																			Roof
17' - 6"	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS5X5X5/16	HSS6X6X5/8	HSS6X6X5/8	HSS6X6X5/8	HSS6X6X5/8	17' - 6"
Level 1																			Level 1
0"																			0"
Column Locations	**A-1.8**	**A.3-0.1**	**A.3-1.8**	**A.7-0.1**	**A.7-1.8**	**B.1-0.2**	**B.1-1.8**	**B.8-0.2**	**B.8-0.8**	**B.8-1.8**	**C.3-0.2**	**C.3-0.8**	**C.4-0.3**	**C.6-0.3**	**C.6-0.8**	**C.8-0.3**	**C.8-0.8**		

COLUMN SCHEDULE NOTES:

1. LINE AT BOTTOM OF COLUMN INDICATES BOTTOM OF STEEL BASE PLATE. ADD 2" FOR GROUT AND LEVELING NUTS FOR TOP OF CONCRETE ELEVATION SEE COLUMN PIER SCHEDULE.
   IF NO PIER DETAIL IS GIVEN. COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM.
2. APPROXIMATE TOP OF COLUMN ELEVATION. FOR ACTUAL ELEVATION SEE PLANS AND SECTIONS.
3. PROVIDE 1/4" CAP PLATE AT ALL HSS COLUMNS & 3/4" CAP PLATE AT ALL WIDE FLANGE COLUMNS UNLESS OTHERWISE NOTED.

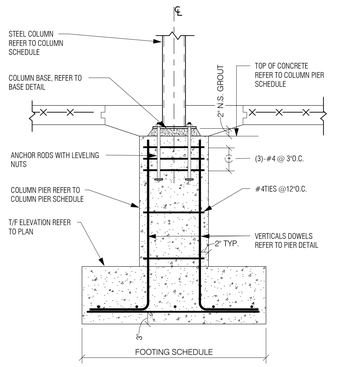
COLUMN PIER SCHEDULE

GRID	T/CONC	BASE PLATE	PIER
A-0.1	-1' - 0"	BP-1	P1
A-0.6	-1' - 0"	BP-1	P1
A-1.8	-1' - 0"	BP-1	P1
A.3-0.1	-1' - 0"	BP-1	P1
A.3-1.8	-1' - 0"	BP-1	P1
A.7-0.1	-1' - 0"	BP-1	P1
A.7-1.8	-1' - 0"	BP-1	P1
B.1-0.2	-1' - 0"	BP-1	P1
B.1-1.8	-1' - 0"	BP-1	P1
B.8-0.2	-1' - 0"	BP-1	P1
B.8-0.8	-1' - 0"	BP-1	P1
B.8-1.8	-1' - 0"	BP-1	P1
C.3-0.2	-1' - 0"	BP-1	P1
C.3-0.8	-1' - 0"	BP-1	P1
C.4-0.3	-1' - 0"	BP-1	P1
C.6-0.3	-1' - 0"	BP-1	P1
C.6-0.8	-1' - 0"	BP-1	P1
C.8-0.3	-1' - 0"	BP-1	P1
C.8-0.8	-1' - 0"	BP-1	P1

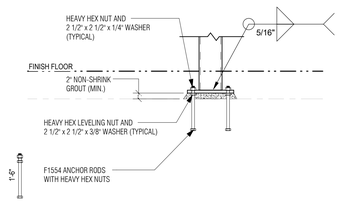
NOTE:
1. IF NO PIER DETAIL DESIGNATION IS GIVEN. COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM.
2. REFER TO DRAWING S200 FOR BASE PLATE DETAILS
3. TOP OF CONCRETE IS GIVEN FROM MAIN LEVEL FINISHED FLOOR ELEVATION (0'-0")

RECOMMENDED SIZES FOR ANCHOR ROD HOLES IN BASE PLATES

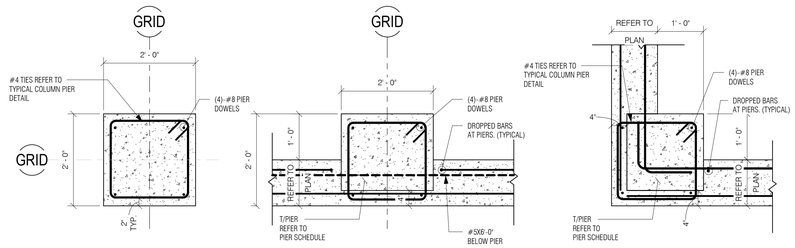
Anchor Rod Diameter, in.	Hole Diameter, in.	Min. Washer Dimension, in.	Min. Washer Thickness, in.
3/4"	1 5/16"	2"	1/4"
7/8"	1 9/16"	2 1/2"	5/16"
1"	1 13/16"	3"	3/8"
1 1/4"	2 1/16"	3"	1/2"
1 1/2"	2 5/16"	3 1/2"	1/2"



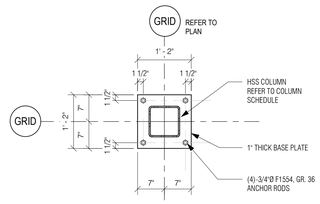
1 TYPICAL COLUMN PIER DETAIL
3/4" = 1'-0"



3 TYPICAL COLUMN BASE PLATE DETAIL
3/4" = 1'-0"



P1 PIER DETAIL
3/4" = 1'-0"



BASE PLATE BP-1

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KEY PLAN

DRAWING TITLE

COLUMN SCHEDULE AND DETAILS

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
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ISSUE DATES

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S-200

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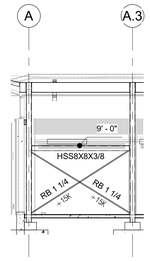
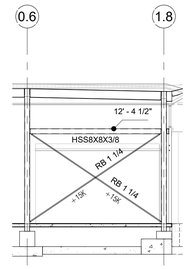
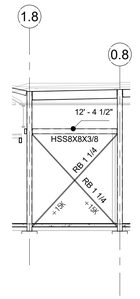


BF-1 BRACE FRAME ELEVATION
1/8" = 1'-0"



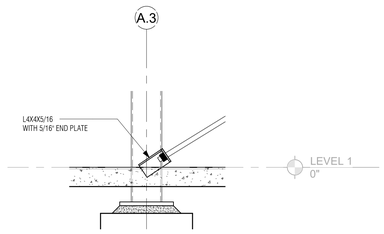
BF-2 BRACE FRAME ELEVATION
1/8" = 1'-0"



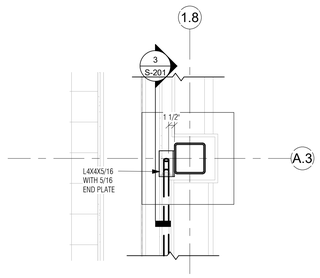
BF-3 BRACE FRAME ELEVATION
1/8" = 1'-0"

BRACE FRAME NOTES:

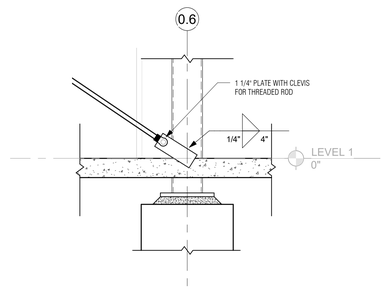
1. DO NOT SCALE FRAME ELEVATIONS OR DETAILS. COORDINATE WITH PLANS.
2. DO NOT INCREASE ALLOWABLE STRESSES FOR CONNECTION DESIGN.
3. MEMBER LOADS NOTED. (i.e. 6.7K). (K=Kips). ARE REVERSIBLE MEMBER AXIAL LOADS TO BE USED TO DESIGN CONNECTIONS AT BOTH ENDS OF EACH MEMBER. APPLY FULL LOAD AT EACH END, AND COMBINE WITH GRAVITY LOADS AS APPLICABLE.
4. BOLTED CONNECTIONS ON BRACING FRAMES SHALL USE STANDARD HOLES AND SLIP-CRITICAL BOLTS.
5. SEISMIC BRACING CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENCED IN THE STATE OF CONNECTICUT.



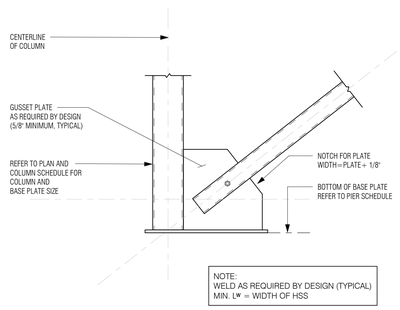
3 OFFSET BRACE CONNECTION SECTION AT BF-1
3/4" = 1'-0"



2 OFFSET BRACE CONNECTION PLAN DETAIL AT BF-1
3/4" = 1'-0"

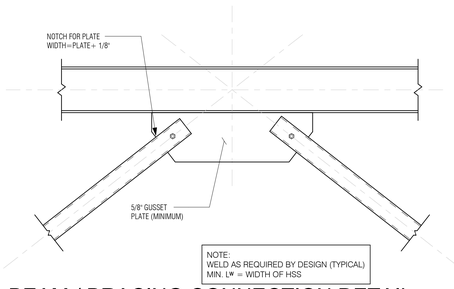


1 OFFSET BRACE CONNECTION SECTION AT BF-2
3/4" = 1'-0"



BEAM / COLUMN / BRACE BASE CONNECTION DETAIL

5 BEAM / COLUMN / BRACE BASE CONNECTION DETAIL
3/4" = 1'-0"



4 BEAM / BRACING CONNECTION DETAIL
3/4" = 1'-0"

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203-481-8600 mha-eng.com

STATE OF CONNECTION — DANIEL J. SHEA — 30,033405 — LICENSED PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITION & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
CD SET

KEY PLAN

DRAWING TITLE
BRACE FRAME ELEVATIONS AND DETAILS

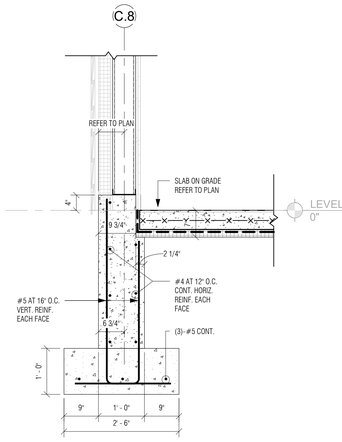
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

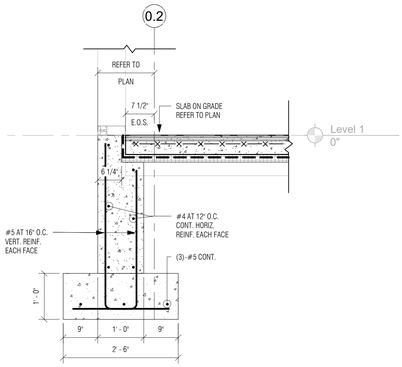
NO.	DATE	PURPOSE

S-201

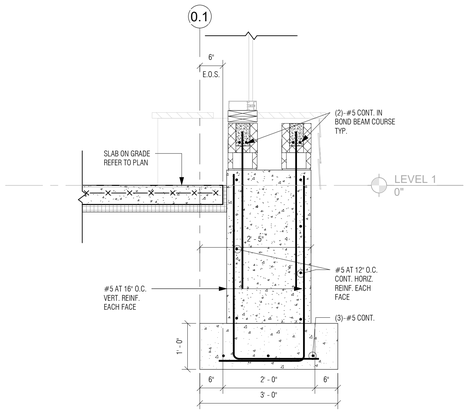
2/15/2023 9:37:07 AM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



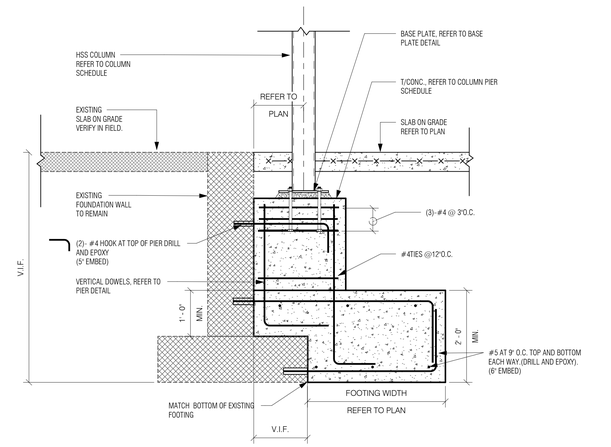
1 SECTION
3/4" = 1'-0"



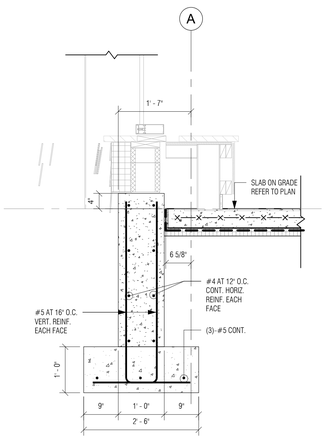
2 SECTION
3/4" = 1'-0"



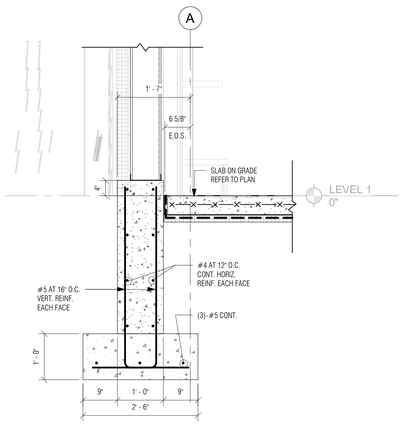
3 SECTION
3/4" = 1'-0"



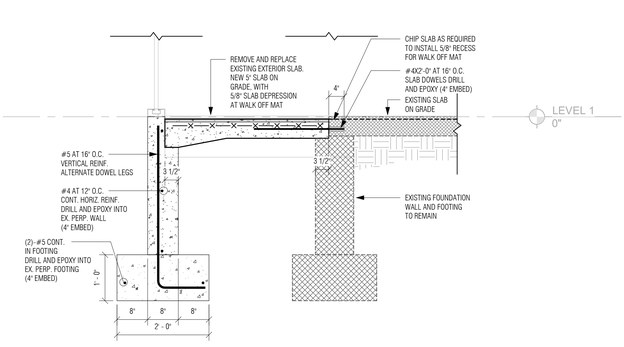
4 TYPICAL FOOTING AT EXISTING
3/4" = 1'-0"



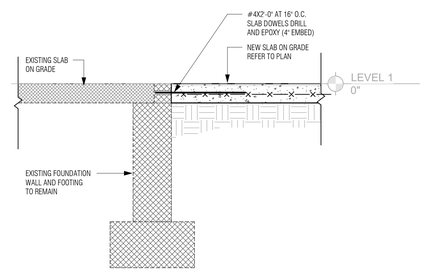
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"

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Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-8600 mha-eng.com

STATE OF CONNECTION
PAUL J. SHEA
No. 23358
LICENSED
PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITION & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
CD SET

KEY PLAN

DRAWING TITLE
FOUNDATION SECTIONS

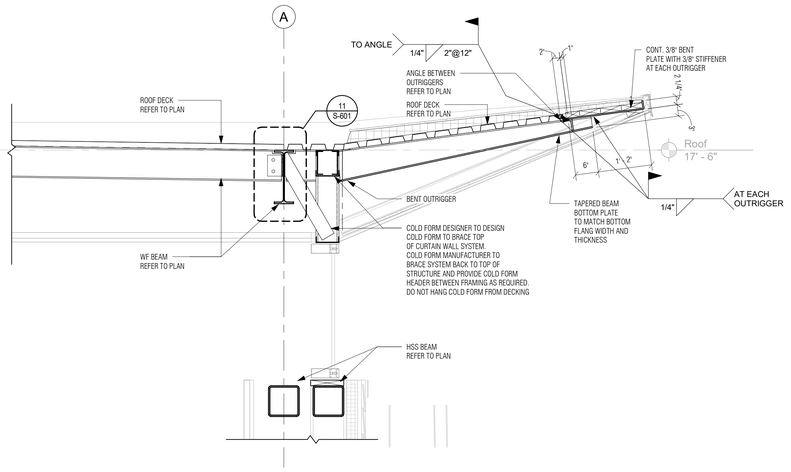
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

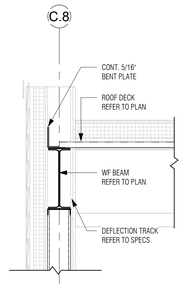
NO.	DATE	PURPOSE

S-300

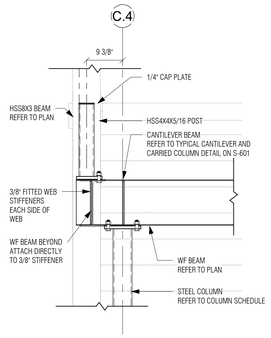
2/15/2023 9:37:08 AM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



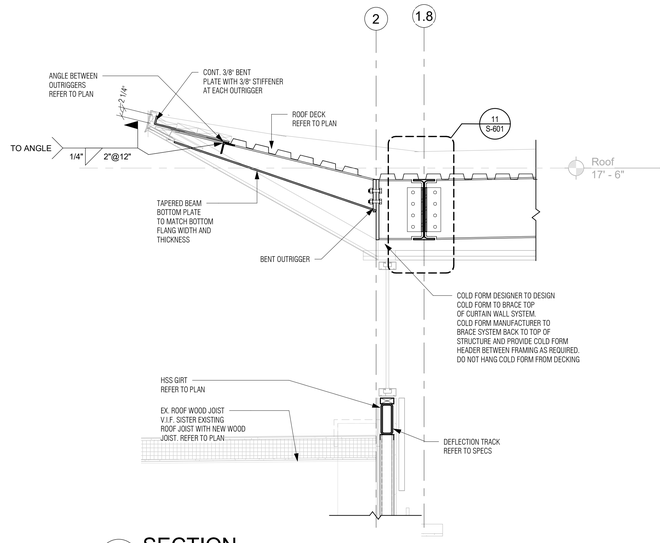
1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"

5 SECTION
3/4" = 1'-0"

6 Section 56
3/4" = 1'-0"

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Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-8600 mha-eng.com

STATE OF CONNECTION
JOHN J. SHEA
No. 20035
LICENSED
PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITION & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

ROOF SECTIONS

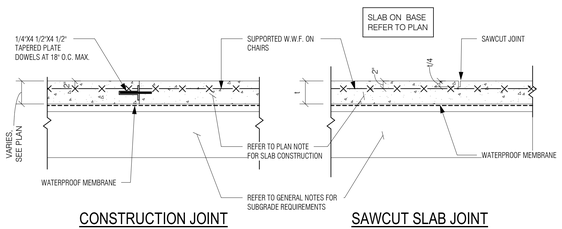
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

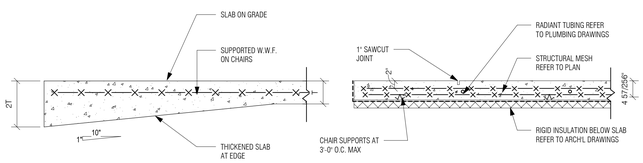
S-500

2/15/2023 9:37:11 AM BIM 360://Bloomfield Library - McMahon Building/21-241B Wintonbury Library Site STRUCT.rvt



CONSTRUCTION JOINT

SAWCUT SLAB JOINT

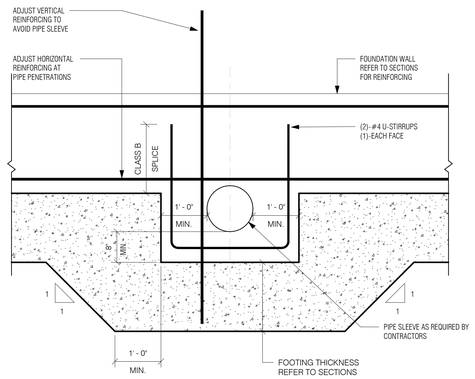


TYPICAL THICKENED EDGE

TYPICAL SLAB AT RADIANT HEAT

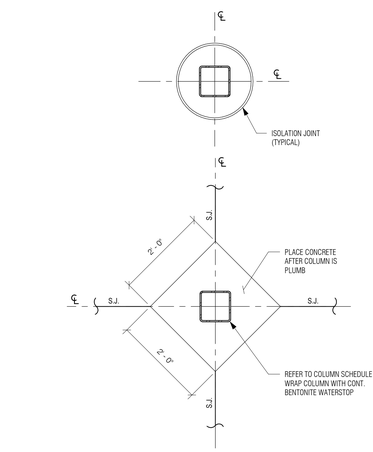
NOTE:
CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE PROPOSED LOCATION OF CONTROL AND CONSTRUCTION JOINTS PRIOR TO PLACING CONCRETE FOR SLAB.
REFER TO GENERAL NOTES FOR SUBGRADE PREPERATION. REMOVE ALL FILL MATERIALS BELOW SLAB ON GRADE

1 TYPICAL SLAB ON GRADE DETAIL -RADIANT
3/4" = 1'-0"

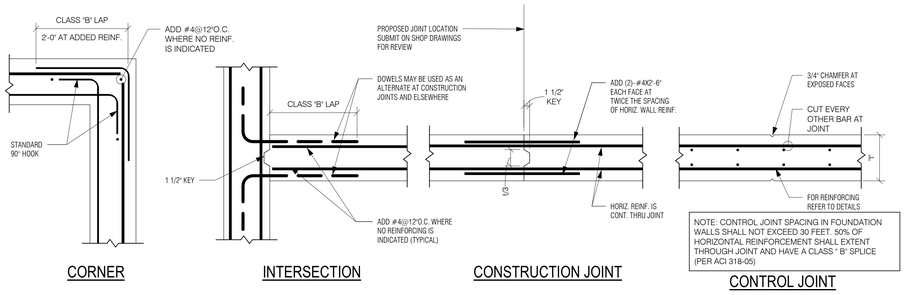


NOTE: DO NOT PLACE PENETRATIONS THROUGH COLUMNS PIERS OR FOOTINGS.
REFER TO PLAN FOR LOCATIONS AND COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS.

TYPICAL DETAIL OF PIPE PENETRATIONS THRU FOUNDATION WALLS
2 3/4" = 1'-0"



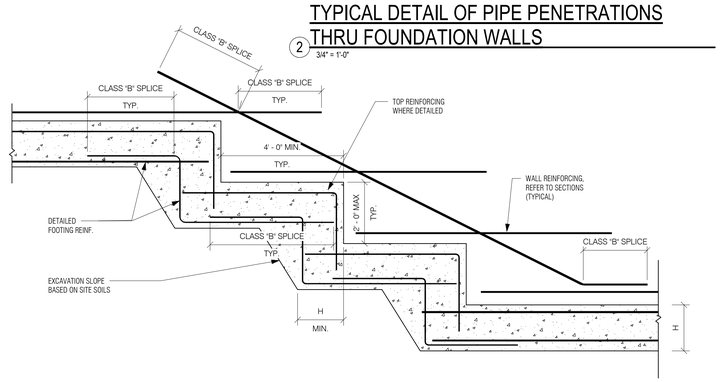
TYPICAL SLAB CONSTRUCTION JOINTS AT COLUMNS
3 3/4" = 1'-0"



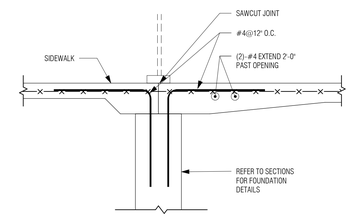
CORNER | INTERSECTION | CONSTRUCTION JOINT | CONTROL JOINT

NOTED "CJ" ON PLAN

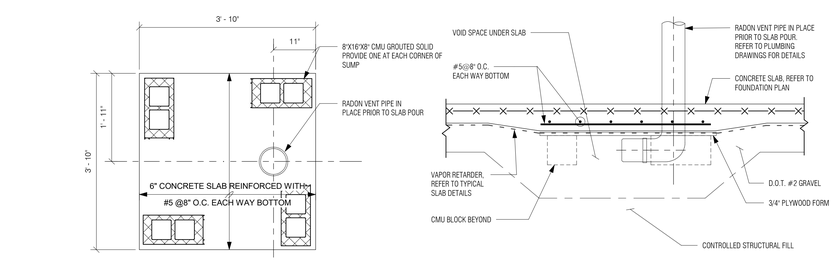
4 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"



5 TYPICAL STEPPED FOOTING DETAIL
1/2" = 1'-0"

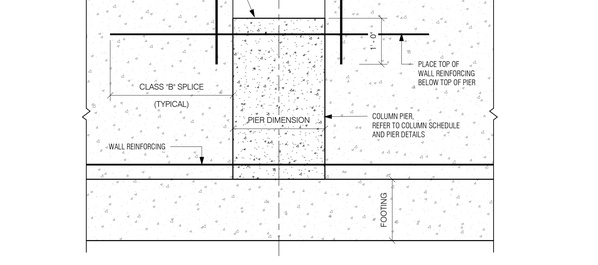


6 TYPICAL FOUNDATION AT DOORS
3/4" = 1'-0"



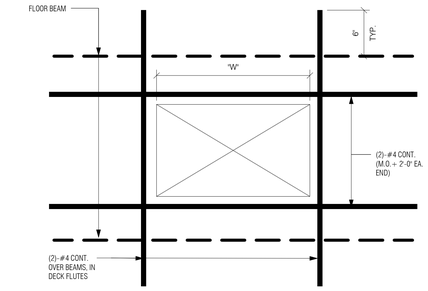
RADON SUMP LOCATIONS NOTED ON FOUNDATION PLAN WITH SYMBOL SHOWN AT LEFT.

7 TYPICAL SLAB ON GRADE RADON SUMP DETAIL
3/4" = 1'-0"



NOTE: REFER TO SECTIONS FOR REINFORCING.

8 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"

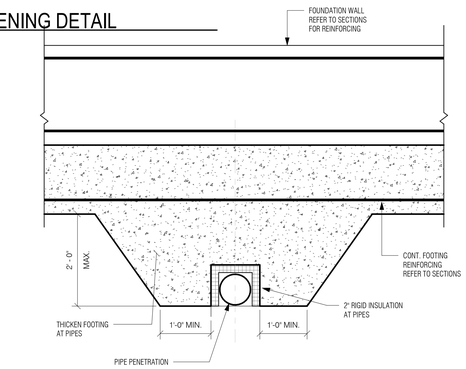


NOTES:
1. FOR OPENINGS WITH "W" GREATER THAN 4'-0" SUBMIT LOCATION FOR REVIEW.
2. FOR STEEL FRAME, REFER TO TYPICAL FLOOR OPENING DETAIL.
3. COORDINATE QUANTITY AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

9 TYPICAL SLAB OPENING DETAIL
1 1/2" = 1'-0"

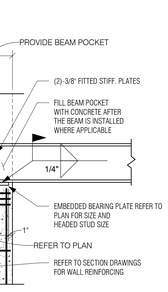
LAP SCHEDULE

SIZE	4500 PSI	
	TOP	OTHERS
#3	24"	19"
#4	32"	25"
#5	40"	31"
#6	48"	37"
#7	70"	54"
#8	80"	62"
#9	91"	70"

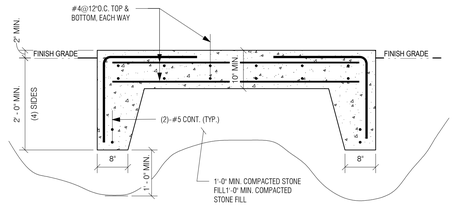


NOTE:
DO NOT LOCATE PENETRATIONS THROUGH COLUMN FOOTINGS.
COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS, FOR LOCATIONS AND ELEVATIONS

TYPICAL DETAIL OF PIPE PENETRATIONS BELOW WALL FOOTING
3/4" = 1'-0"

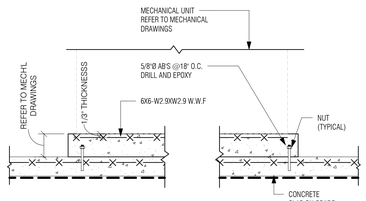


10 TYPICAL BEAM BEARING PLATE DETAIL
3/4" = 1'-0"



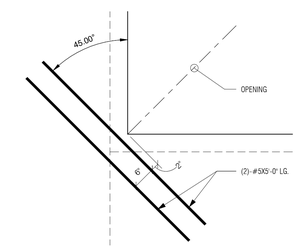
1. COORDINATE WITH MECHANICAL DRAWING FOR QUANTITY, SIZE AND LOCATION. 2. PROVIDE PADS AT GENERATORS, REFRIDGERATOR AND FREEZER UNITS. COORDINATE WITH ELECTRICAL & KITCHEN DRAWINGS FOR SIZE AND LOCATION.

11 TYPICAL CONCRETE EQUIPMENT PAD ON GRADE
3/4" = 1'-0"



1. COORDINATE WITH MECHANICAL DRAWING FOR QUANTITY, SIZE AND LOCATION

TYPICAL NEW CONCRETE PAD ON CONCRETE SLAB ON GRADE
3/4" = 1'-0"



13 TYPICAL AT REENTRANT SLAB CORNERS
3/4" = 1'-0"

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STATE OF CONNECTION — JOHN J. SHORE — No. 25356 — LICENSED PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITION & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
CD SET

KEY PLAN

DRAWING TITLE
TYPICAL DETAILS

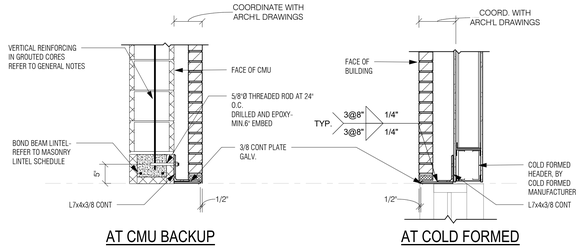
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

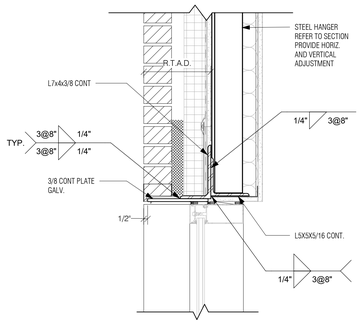
NO.	DATE	PURPOSE

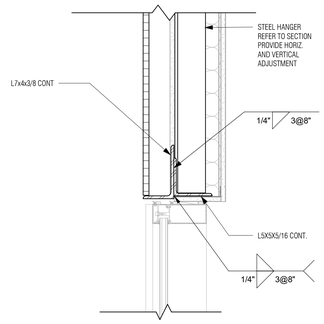
S-600

2/15/2023 9:37:12 AM BIM 360://Bloomfield Library - McMahon Building/21-24/B Wintonbury Library Site STRUCT.rvt

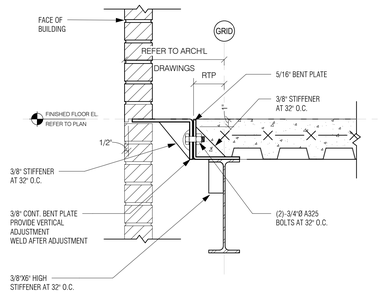


1 TYPICAL EXTERIOR LOOSE LINTEL.
3/4" = 1'-0"

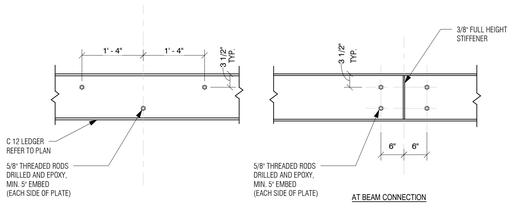




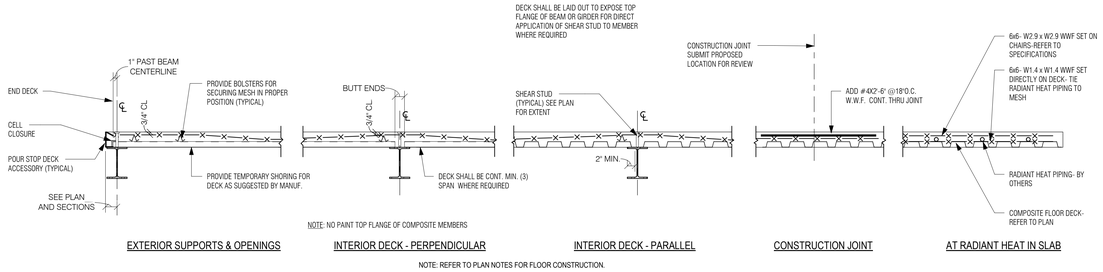
2 TYPICAL HUNG ANGLE DETAIL.
1 1/2" = 1'-0"



3 TYPICAL RELIEVING ANGLE.
1 1/2" = 1'-0"

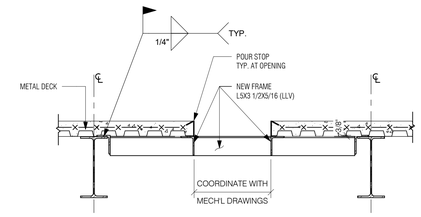


4 TYPICAL LEDGER BOLTING DETAIL
3/4" = 1'-0"



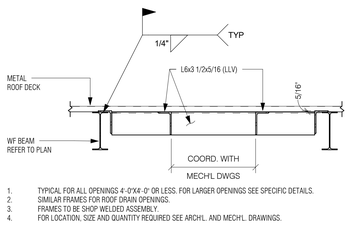
NOTE: REFER TO PLAN NOTES FOR FLOOR CONSTRUCTION.

5 TYPICAL SUPPORTED SLAB DETAILS
3/4" = 1'-0"



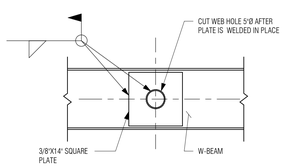
1. TYPICAL FOR ALL OPENINGS.
2. FRAMES TO BE SHOP WELDED ASSEMBLY.
3. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCH'L. AND MECH'L. DRAWINGS.

6 TYPICAL FLOOR OPENING DETAIL
3/4" = 1'-0"

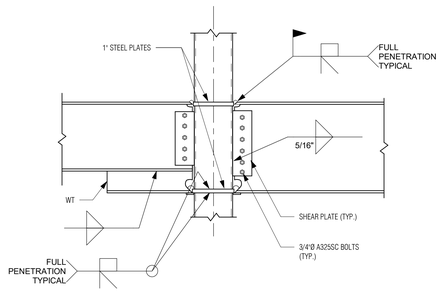


1. TYPICAL FOR ALL OPENINGS 4'-0"X4'-0" OR LESS. FOR LARGER OPENINGS SEE SPECIFIC DETAILS.
2. SIMILAR FRAMES FOR ROOF DRAIN OPENINGS.
3. FRAMES TO BE SHOP WELDED ASSEMBLY.
4. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCH'L. AND MECH'L. DRAWINGS.

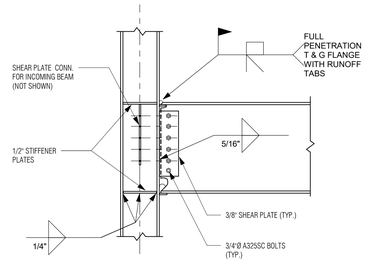
7 TYPICAL ROOF FRAME OPENING DETAIL (W BEAM)
3/4" = 1'-0"



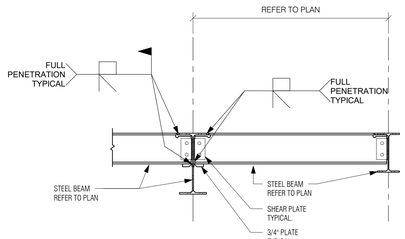
8 PIPE PENETRATION DETAIL
3/4" = 1'-0"



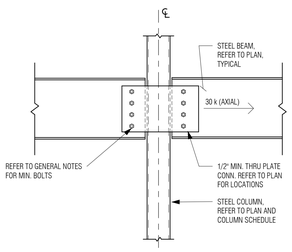
9 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"



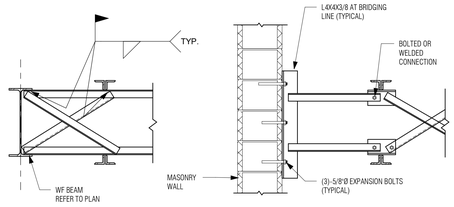
10 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"



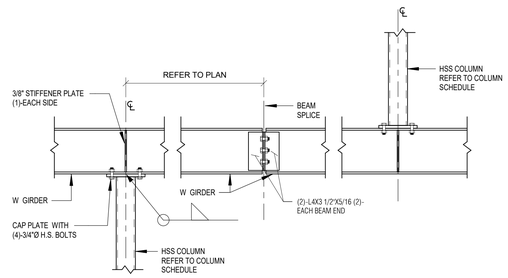
11 TYPICAL WF OUTRIGGER DETAIL
3/4" = 1'-0"



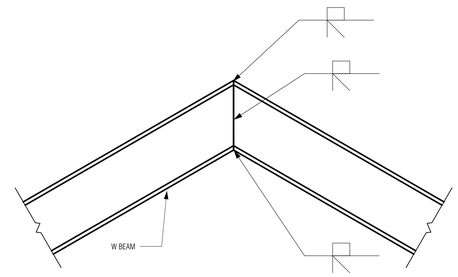
TYPICAL THRU PLATE CONNECTION DETAIL
3/4" = 1'-0"



13 TYPICAL BRIDGING DETAIL
3/4" = 1'-0"



14 TYPICAL CANTILEVER AND CARRIED COLUMN DETAIL
3/4" = 1'-0"



NOTE: APPLIES TO BEAMS INDICATED AS "BENT" ON PLAN

15 TYPICAL BENT BEAM DETAIL
3/4" = 1'-0"

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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
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Michael Horton Associates Inc.
Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-8600 mha-eng.com

STATE OF CONNECTION — PAUL J. SHEA — No. 25346 — LICENSED PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY
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1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
CD SET

KEY PLAN

DRAWING TITLE
TYPICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S-601

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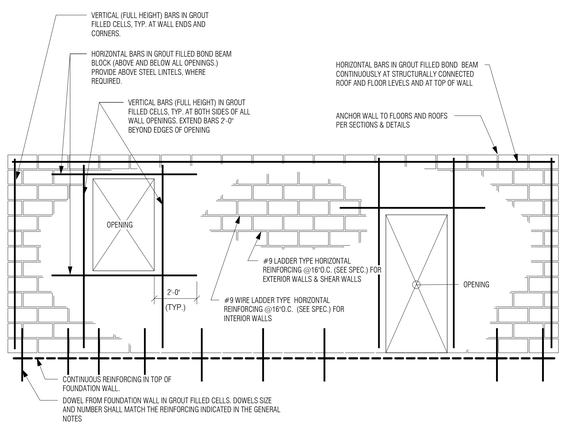
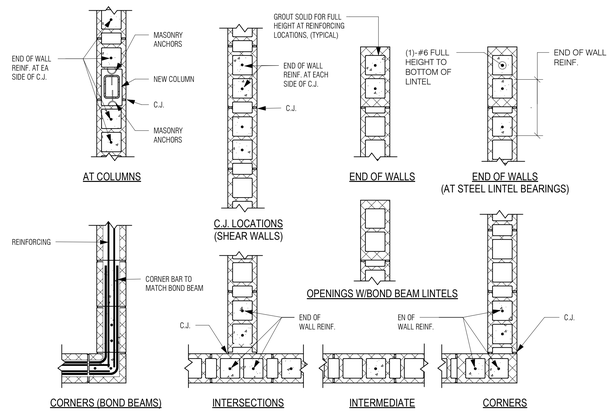


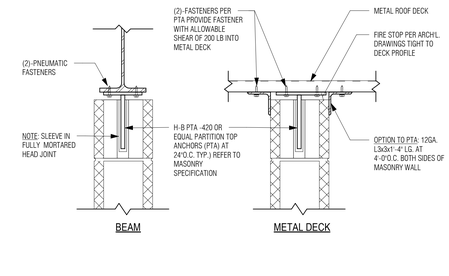
NOTE: REFER TO CONCRETE MASONRY GENERAL NOTES ON DRAWING FOR WALL REINFORCING REQUIREMENTS.

1 TYPICAL CMU WALL REINFORCEMENT DETAIL
3/4" = 1'-0"



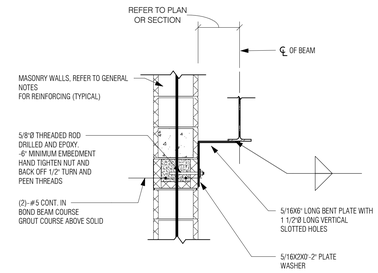
NOTES:
1. REINFORCING DETAILS APPLY TO ALL CMU WALLS. FOR ACTUAL REINFORCING REQUIREMENTS, REFER TO GENERAL NOTES ON DRAWINGS
2. PROVIDE DOWELS FROM CONCRETE FOUNDATIONS TO CMU WALL ABOVE. SIZE AND NUMBER TO MATCH WALL REINFORCING.

2 TYPICAL CMU REINFORCING PLAN DETAILS
3/4" = 1'-0"

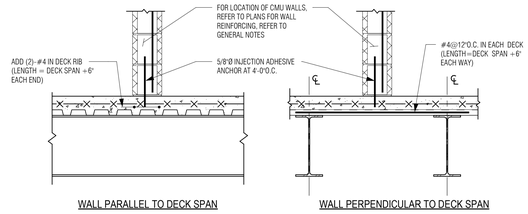


NOTE: APPLIES TO INTERIOR WALLS ONLY.

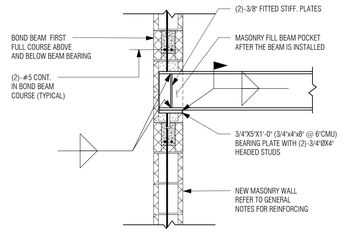
3 TYPICAL TOP OF WALL MASONRY ANCHORAGE TO STEEL
1 1/2" = 1'-0"



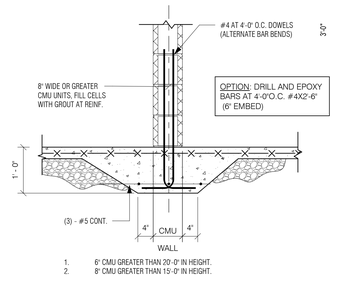
4 TYPICAL BEAM TO MASONRY CONNECTION
3/4" = 1'-0"



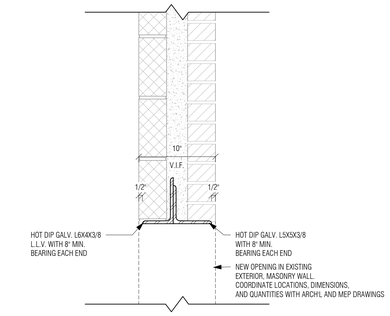
5 TYP. DETAIL OF CMU PARTITION ON SUPPORTED SLAB
3/4" = 1'-0"



6 TYPICAL BEAM BEARING PLATE AT NEW CMU
3/4" = 1'-0"



7 TYPICAL THICKENED SLAB DETAIL
3/4" = 1'-0"



8 NEW MASONRY LINTEL IN EXISTING EXTERIOR WALL
1 1/2" = 1'-0"

EXISTING MASONRY LINTEL SCHEDULE

MARK	CMU	OPENING WIDTH	LINTEL
	EXISTING EXTERIOR WALL	UP TO 7'-0"	REFER TO DETAIL 8/S-602
	EXISTING INTERIOR 12" BLOCK	UP TO 9'-6"	(3)-L7X4X3/8 L.L.V. (MIN. 8" BEARING)
	EXISTING INTERIOR 8" BLOCK	UP TO 9'-6"	(2)-L7X4X3/8 L.L.V. (MIN. 8" BEARING)
	EXISTING INTERIOR 4" MASONRY	UP TO 6'-0"	L5X3 1/2X5/16 (4" MIN. BEARING)
	EXISTING INTERIOR 4" MASONRY	6'-0" TO 10'-0"	L7X4X3/8 (4" MIN. BEARING)

NOTE:
1. PROVIDE LINTELS WHERE NEEDED. NOT SHOWN ON THE DRAWINGS
2. ALL EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED
3. COORDINATE ALL OPENINGS WITH ARCHT & MECH DRAWINGS.
4. GROUT CORES SOLID BELOW LINTEL BEARING FULL HEIGHT TO UNDERSIDE OF LINTEL.

MASONRY LINTEL SCHEDULE

MARK	CMU	OPENING WIDTH	LINTEL
	10" & 12" BLOCK	6'-1" TO 12'-0"	(2)-#6 CONT. TOP AND BOTTOM
	10" & 12" BLOCK	UP TO 6'-0"	(2)-#5 CONT.
	8" BLOCK	UP TO 5'-0"	(2)-#5 CONT.
	8" BLOCK	5'-1" TO 10'-0"	(2)-#6 CONT. TOP AND BOTTOM
	6" BLOCK	UP TO 6'-0"	(1)-#5 CONT.
	INTERIOR 4" MASONRY	UP TO 6'-0"	L5X3 1/2X5/16 (4" MIN. BEARING)
	INTERIOR 4" MASONRY	6'-0" TO 10'-0"	L7X4X3/8 (4" MIN. BEARING)

NOTE:
1. PROVIDE LINTELS WHERE NEEDED. NOT SHOWN ON THE DRAWINGS
2. ALL EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED
3. COORDINATE ALL OPENINGS WITH ARCHT & MECH DRAWINGS.
4. GROUT ALL JAMBS SOLID PER TYPICAL CMU WALL REINF. DETAILS.

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146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
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Michael Horton Associates Inc.
Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-8600 mha-eng.com

STATE OF CONNECTION — JOHN J. SHIELDS — 30456 — LICENSED PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITION & RENOVATIONS
1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
CD SET

KEY PLAN

DRAWING TITLE
TYPICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S-602

GENERAL NOTES

GENERAL

GOVERNING CODE: 2022 CONNECTICUT STATE BUILDING CODE, (2021 INTERNATIONAL BUILDING CODE).

DESIGN LOADS: TOWN OF BLOOMFIELD

CONSTRUCTION LIVE LOADS: 20 PSF
PRE-COMPOSITE LOAD FOR CONCRETE PLACEMENT BY HOSE AND FINISHING. CONTRACTOR IS RESPONSIBLE FOR ANY SHORING REQUIRED OF THE DECK FOR HEAVIER LOADS DURING CONCRETE PLACEMENT.

MINIMUM LIVE LOADS: LIBRARY STACKS 125 PSF

ROOF LOAD:

ROOF SNOW LOAD CRITERIA:
Pg = 30 PSF
Ce = 1.0
Is = 1.0
Ct= 1.0
Pf = 21.0 PSF

WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2021 IBC).

MINIMUM ROOF LIVE LOAD = 30 PSF

ROOF DEAD LOAD = 20 PSF

WIND LOAD CRITERIA: SECTION 1609 (2021 IBC)
ULTIMATE WIND SPEED V_{ult} = 120 MPH
NOMINAL DESIGN WIND V_{ASD} = 93 MPH
RISK CATEGORY II, Iw = 1.0
EXPOSURE CLASSIFICATION "B".

MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 16 PSF

WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-16.

COMPONENT AND CLADDING DESIGN WIND PRESSURES:

ROOF ZONE 1: POSITIVE: 16.00 PSF
NEGATIVE: -36.76 PSF

ROOF ZONE 2: POSITIVE: 16.00 PSF
NEGATIVE: -48.42 PSF

ROOF ZONE 3: POSITIVE: 16.00 PSF
NEGATIVE: -66.04 PSF

WALL ZONE 4: POSITIVE: 23.05 PSF
NEGATIVE: -25.01 PSF

WALL ZONE 5: POSITIVE: 23.05 PSF
NEGATIVE: -30.88 PSF

ROOF OVERHANG ZONE 2: -44.95 PSF
ROOF OVERHANG ZONE 3: -62.48 PSF

DESIGN WIND PRESSURE IS COMPUTED BASED ON ULTIMATE WIND SPEED USING 10 SQUARE FOOT OF AREA.

SEISMIC LOAD CRITERIA: AS PER SECTION 1613 (2021 IBC) WITH:
RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR, Ie = 1.0
Ss = 0.182g, S1 = 0.055g
SOIL SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.293G, Sd1 = 0.136g
SEISMIC DESIGN CATEGORY, B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
SEISMIC RESPONSE COEFFICIENT, Cs = 0.054
DESIGN BASE SHEAR, V = Cs x W
RESPONSE MODIFICATION FACTOR, R = 3
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

ASSUMED BEARING PRESSURE ON UNDISTURBED SOIL: 4000 PSF

1. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

2. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

3. THE STRUCTURE UTILIZES SHEAR WALLS TO PROVIDE LATERAL STABILITY. THEREFORE, TEMPORARY BRACING, GUYS, ETC. MUST BE MAINTAINED UNTIL ALL MASONRY SHEAR WALLS HAVE BEEN ERECTED AND ATTACHED TO STEEL FRAMING.

4. LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.

5. MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.

6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

7. SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

9. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.

10. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID FOR REFERENCE TO ALL NOTES ON ARCHITECTURAL DRAWINGS REFERRING TO ASEE STRUCTURAL DRAWINGS(@). IF THE SIZE OF ELEMENTS AND DETAILING OF MEMBERS IS NOT INDICATED, THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST THE MISSING INFORMATION IN PREPARATION OF THEIR BID. THESE REFERENCED ITEMS SHALL BE PART OF THE BASE BID.

11. IN CASES OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SUBMITTED SHOP DRAWINGS, THE CONTRACT DOCUMENTS SHALL GOVERN INSTALLATION OF MATERIALS.

CONRTACTOR'S DELEGATED DESIGN

1. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT TO PERFORM THE DESIGN OF THE FOLLOWING:

A. STRUCTURAL STEEL CONNECTIONS, INCLUDING BRACING AND MOMENT FRAMES
B. COLD-FORMED METAL EXTERIOR WALL FRAMING
C. GLU-LAMINATED WOOD CONNECTIONS
D. STAIR STRINGER, RAILING AND LANDING DESIGN
E. MECHANICAL EQUIPMENT CURB ATTACHMENT TO STEEL FRAMING.

ALL CALCULATIONS SHALL BE SIGNED AND SEALED BY THE ENGINEER AND SUBMITTED FOR REVIEW.

FOUNDATIONS

1. BACKFILLING SHALL BE ACCOMPLISHED TO EQUAL HEIGHTS ON BOTH SIDES OF FOUNDATION WALLS TO PREVENT MOVEMENTS DUE TO UNBALANCED EARTH PRESSURE. WHERE EARTH IS ON ONE SIDE ONLY, BACKFILLING AND COMPACTION SHALL NOT START UNTIL FLOOR SLAB OR ADEQUATE BRACING IS PROVIDED FOR WALL SUPPORT (EXCEPT AT RETAINING WALLS).

2. ALL FOOTINGS ARE TO REST ON UNDISTURBED NATURAL SOIL, AS DEFINED IN THE SPECIFICATIONS, OR CONTROLLED COMPACTED FILL, REGARDLESS OF ELEVATIONS SHOWN ON DRAWINGS. FOOTING BOTTOM ELEVATIONS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, NOR LESS THAN 3'-6" BELOW FINISH GRADES.

3. IF FILL MATERIALS ARE ENCOUNTERED AT FOOTING BEARING ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF FOOTING ELEVATION AS REQUIRED.

4. ALL CONTROLLED COMPACTED BACKFILL UNDER FOOTINGS AND WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

5. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF FINISH GRADES AND BOTTOM OF EXTERIOR FOOTING ELEVATIONS TO MAINTAIN THE 3'-6" FROST PROTECTION.

6. ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.

7. FOOTING BOTTOMS SHALL STEP AT THE RATE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0".

8. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF THE FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS.

9. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUBSURFACE PIPING OR CONDUIT, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW INVERT ELEVATION OF PIPING OR CONDUITS.

10. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.

11. USE LEAN CONCRETE (f'c=1500) OR CONTROLLED COMPACTED FILL FOR OVER-EXCAVATION OF FOOTINGS.

12. PLACEMENT OF ALL COMPACTED FILL MATERIALS MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY (SEE SPECIFICATIONS). CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBGRADE HAS BEEN CHECKED IN PLACE AND APPROVED BY TESTING LABORATORY.

13. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING FOUNDATIONS, SLABS ON GRADE, OR FOR BACKFILLING OF FOUNDATION WALLS, OR WITHIN 2 FEET OF PAVEMENT GRADES UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.

14. CONTROL JOINT SPACING EXPOSED FOUNDATION RETAINING WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS "B" SPLICE (PER ACI 318). CONTROL JOINTS ARE NOT REQUIRED AT FROST WALLS UNLESS NOTED ON PLAN.

15. WHERE REQUIRED, CONSTRUCTION JOINTS SHALL BE KEYED AND OCCUR AT CONTROL JOINT INTERVALS. PROVIDE BENTONITE WATERSTOP FULL HEIGHT IN ALL WALL CONSTRUCTION JOINTS WHERE THERE IS A DIFFENCE IN GRADE.

16. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BRICK OR CONCRETE MASONRY BLOCK SHELF ELEVATIONS IN THE FOUNDATION WALLS.

17. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SOIL BORINGS, SOILS REPORT AND RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER, WELTI GEOTECHNICAL, DATED MARCH 2, 2022. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW THE MATERIAL PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SOIL CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

18. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SITE GRADING PLAN PREPARED BY ----------, DATED ----------. IT IS THE CONTRACTOR=S RESPONSIBILITY TO REVIEW THE DRAWING PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SITE CONDITIONS AND THE REQUIREMENTS OF THE SITE ENGINEER.

19. FOUNDATION DESIGN SITE PREPARATION: THE FOUNDATION DESIGN AS INDICATED ON THE STRUCTURAL DRAWINGS HAS BEEN BASED ON THE FOLLOWING SITE PREPARATION. THE SITE HAS BEEN PREPARED BY THE EXCAVATION AND REMOVAL FROM THE SITE OF ALL EXISTING FILL AND CONTAMINATED SOILS. THE FOUNDATION DESIGN IS BASED ON THE CONTROLLED BACKFILLING OF THE SITE EXCAVATION WITH CONTROLLED FILL COMPACTED TO AT LEAST 95% OF THE MODIFIED OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

20. PROVIDE CONTINUOUS BENTONITE WATERSTOPS BETWEEN THE TOP OF FOOTING AND BOTTOM OF ALL WALLS WHERE THE SLAB ON GRADE IS BELOW THE FINISH GRADE. PLACE THE WATERSTOP WITH A MINIMUM OF 2" CLEAR FROM THE FACE OF WALL, OR PER THE MANUFACTURER=S WRITTEN INSTALLATION INSTRUCTIONS. ATTACH WATERSTOP TO THE CONCRETE PER THE MANUFACTURER=S WRITTEN INSTALLATION INSTRUCTIONS.

SLAB ON GRADE

1. ALL SLABS ON GRADE SHALL BEAR ON A 15 MIL, CLASS A, VAPOR RETARDER OVER A MINIMUM OF 6 INCHES OF 3/4" COMPACTED PROCESSED AGGREGATE FILL, OVER A MINIMUM OF 6 INCHES OF COMPACTED CONTROLLED/STRUCTURAL FILL.

ALL JOINTS OF THE VAPOR RETARDER SHALL BE SEALED WITH TAPE. TURN THE VAPOR BARRIER UP AT ALL TERMINATIONS AGAINST FOUNDATION WALLS AND SEAL JOINT BY CONTINUOUSLY TAPING.

2. IF FILL MATERIALS ARE ENCOUNTERED SLAB SUBGRADE ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF THE SLAB SUBGRADE AS REQUIRED. ALL CONTROLLED COMPACTED BACKFILL UNDER SLABS WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

3. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING SLABS ON GRADE UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.

4. CONTROL JOINTS ARE TO BE CREATED IN SLABS ON GRADE. JOINTS SHALL BE SAW CUT 1/8" WIDE AND TO A DEPTH EQUAL TO 1/4 OF THE SLAB THICKNESS. LOCATE JOINTS A MAXIMUM OF 12'-0" ON CENTER IN EACH DIRECTION, IN ADDITION TO THOSE LOCATIONS INDICATED ON PLAN.

5. CONSTRUCTION JOINTS AS REQUIRED SHALL BE KEYED AND DOWELED AND LOCATED AT INTERVALS OF A MAXIMUM OF 75 FEET ON CENTER.

6. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DEPRESSED AREAS IN CONCRETE SLABS AND FOR CONCRETE PADS. MAINTAIN FULL SLAB THICKNESS IN DEPRESSED AREAS, UNLESS OTHERWISE SHOWN.

7. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY WALLS FOR WHICH NO FOOTING IS SHOWN. SEE DETAILS FOR SLAB REINFORCING REQUIREMENTS AT ALL WALL LOCATIONS.

8. CONTRACTOR SHALL CONSOLIDATE ALL SLAB CONCRETE USING VIBRATIONAL METHODS IN CONFORMANCE WITH ACI 309, AGUIDE FOR CONSOLIDATION OF CONCRETE.

9. ALL CONDUIT AND PIPING ARE TO BE PLACED BELOW THE SLAB VAPOR BARRIER. ANY STUB-UPS SHOULD BE TAPED WITH APPROVED TAPE.

CONCRETE

MATERIALS:

CONCRETE SHALL MEET THE REQUIREMENTS OF THE EXPOSURE CATEGORY LISTED BELOW PER ACI 318 CHAPTER 19, AND SHALL HAVE THE MAXIMUM WATER TO CEMENT RATIO, TARGET AIR CONTENT AND DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

LOCATION	EXPOSURE CATEGORY	STRENGTH (PSI)	MAXIMUM WATER TO CEMENT RATIO	TARGET AIR CONTENT
FOUNDATIONS	F2	4500	0.45	6%
SLABS ON GRADE	F0	3500	N/A	N/A

* INCLUDES ANY EXTERIOR CONCRETE PADS, SLABS, ETC. NOTED ON THE STRUCTURAL DRAWINGS. REFER TO SITE CONCRETE SPECIFICATIONS FOR ALL OTHER EXTERIOR CONCRETE REQUIREMENTS.

1. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW ACI 318-14.

2. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ACI GUIDELINES FOR HOT AND COLD WEATHER CONCRETE AND SHALL SUBMIT PROCEDURES FOR RECORD PRIOR TO COMMENCING WORK.

3. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

4. NO TACK WELDING OF REINFORCING WILL BE PERMITTED.

5. UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-14.

6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

7. WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.

8. WELDED WIRE FABRIC SIDE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION.

9. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.

10. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING FORMWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF BOTTOM OF EXTERIOR FOOTING ELEVATIONS WITH THE FINISH GRADES AND MAINTAINING THE 3'-6" FROST PROTECTION. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS. PIPING OR CONDUITS SHALL NOT PASS THROUGH COLUMNS OR PIERS.

11. CONTRACTOR SHALL ANTICIPATE DEFLECTION OF STEEL MEMBERS AT SUPPORTED ELEVATED SLABS OF 1 INCH MAXIMUM, AND PROVIDE ADDITIONAL CONCRETE AS REQUIRED.

12. ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS AB(@ SPLICES IN ACCORDANCE WITH ACI 318.

13. AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.

14. PROVIDE DRILLED AND EPOXIED DOWELS OF SAME SIZE TO MATCH NEW REINFORCING WHERE NEW CONSTRUCTION ABUTS EXISTING CONCRETE CONSTRUCTION. LENGTH SHALL BE THE REQUIRED EMBEDMENT DEPTH PER THE ANCHOR BOLT/EPOXY MANUFACTURER PLUS A CLASS B LAP SPLICE FOR THE SIZE OF BAR.

15. PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.

16. ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE.

17. CONCRETE PIERS: PLACE CONCRETE PIERS AND WALLS TOGETHER. SET PIER REINFORCING AND SET WALL REINFORCING THROUGH PIER VERTICAL BARS. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTING AT ALL PIERS. SIZE AND QUANTITY OF DOWELS TO MATCH VERTICAL PIER REINFORCING, PROVIDE CLASS "B" SPLICE.

18. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE, SITE UTILITY AND EQUIPMENT DRAWINGS FOR CONCRETE PADS, SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN CONCRETE ELEMENTS.

19. THE CONTRACTOR SHALL FURNISH, LOCATE AND INSTALL ALL ACCESSORIES FOR PROPER ANCHORAGE OF WOOD AND METAL FRAMING, WOOD BLOCKING, BRICK WORK AND MASONRY UNITS. HE SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, LOCATING AND ENSURING PROPER QUANTITY OF ALL FASTENING DEVICES.

20. ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH (SEE SPECIFICATIONS).

21. ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES.

22. PROVIDE CONTINUOUS VERTICAL DOVETAIL SLOTS AT 16 INCH CENTERS HORIZONTALLY FOR ALL CONCRETE WALLS ABUTTING A MASONRY WALL OR MASONRY VENEER, UNLESS OTHERWISE NOTED.

23. PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS:

FOOTINGS (AGAINST EARTH)		3"
BEAMS (LONGITUDINAL REINFORCING)		2"
COLUMNS AND PIERS (VERTICAL REINFORCING)	2"	
WALLS, EXTERIOR FACE (#5 AND SMALLER)		1 1/2"
WALLS, EXTERIOR FACE (#6 AND LARGER)	2"	
SLABS (INTERIOR)		3/4"
SLABS (EXTERIOR)		1 1/2"
SLABS ON GRADE (W.W.F.)		1/3 X THK. FROM TOP SURFACE

24. PROVIDE 2-#4 BARS IN TOP OF ALL CONCRETE BEAMS WITH STIRRUPS THAT DO NOT HAVE ANY OTHER TOP STEEL SPECIFIED.

25. NO SLEEVES, HOLES OR INSERTS SHALL BE PLACED IN SLABS WITHIN 2'-0" OF THE EDGE OF COLUMNS, OR ANYWHERE IN BEAMS, COLUMNS OR JOISTS WITHOUT APPROVAL OF THE ARCHITECT.

26. PROVIDE LENGTH OF BEARING ON MASONRY WALLS AS FOLLOWS, UNLESS NOTED OTHERWISE:

REINFORCED CONCRETE BEAMS: 8 INCHES
SOLID CONCRETE SLABS: 4 INCHES

27. CONCRETE COLUMNS SHALL BE PLACED AT LEAST TWO HOURS IN ADVANCE OF BEAMS, JOISTS AND SLABS.

28. JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. THERE SHALL BE NO HORIZONTAL JOINTS IN BEAMS OR SUSPENDED SLABS.

29. PROVIDE THE FOLLOWING AT OPENINGS IN ALL CONCRETE WALLS AND FRAMED SLABS, UNLESS OTHERWISE INDICATED:

1-#5 AT EACH FACE ON EACH SIDE OF OPENING, EXTENDING 2'-0" BEYOND OPENING.

1-#5 X 4'-0" LONG AT EACH FACE DIAGONALLY AT EACH CORNER.

30. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE THE SEQUENCE IN WHICH LAYERS OF CROSSING REINFORCING SHOULD BE PLACED, IN ORDER TO PRODUCE THE CORRECT OUTERMOST LAYER AS INDICATED ON THE DRAWINGS.

31. SHOP DRAWINGS SHALL INDICATE LOCATIONS OF ALL WALL CONTROL AND CONSTRUCTION JOINTS.

32. ALL REINFORCING, THREADED RODS OR BOLTS INDICATED TO BE DRILLED AND EPOXIED SHALL UTILIZE HILTI HIT-HY200 ADHESIVE OR APPROVED EQUAL.

STRUCTURAL STEEL

MATERIALS:

STRUCTURAL STEEL	ASTM A 36
ALL W SHAPES	ASTM A 992, GR.50
STRUCTURAL STEEL TUBING	ASTM A500, GRADE C
STRUCTURAL STEEL PIPE	ASTM A53, GRADE B
BOLTS	ASTM A325
ANCHOR BOLTS	ASTM F1554, GRADE 36
WELDING ELECTRODE	ASTM E 70
WELDABLE REBAR	ASTM A706, GRADE 60

1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION, AISC 360-10. ALL REACTIONS SHOWN ON PLAN HAVE BEEN DEVELOPED USING ALLOWABLE STRESS DESIGN.

2. WELDING SHALL CONFORM TO THE CODE FOR "ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.

3. ALL LOOSE BEAM LINTELS SHALL HAVE 8" MINIMUM BEARING. SEE ARCHITECTURAL JAMB DETAILS FOR LENGTHS.

4. FOR MISCELLANEOUS STEEL NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS.

5. PROVIDE LEVELING NUTS FOR ALL COLUMN BASE PLATES WITH FOUR (4) ANCHOR BOLTS AND PROVIDE 1 1/2" MINIMUM, 5000 PSI NON-SHRINK GROUT. PROVIDE TACK WELDED NUT AT THE BOTTOM OF THE ANCHOR BOLT EMBEDDED IN CONCRETE.

6. CONNECTIONS:

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH AISC 360-10. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF SIMPLE CONNECTIONS UNLESS OTHERWISE DETAILED.

CONNECTIONS SHALL BE DESIGNED TO ACCOMMODATE THE REACTIONS SHOWN ON THE CONTRACT DOCUMENTS. IF NO REACTIONS ARE GIVEN THEN PROVIDE CONNECTION FOR ONE HALF THE ALLOWABLE UNIFORM LOAD BEAM TABLES, PER THE AISC MANUAL, FOR THE SPAN INDICATED ON THE DRAWINGS. MINIMUM CONNECTION DESIGN LOAD IS 6 KIPS.

MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 5/16". MINIMUM SHEAR PLATE IS 3/8".

IN ADDITION TO PROVIDING ADEQUATE BOLTS TO ACCOMMODATE REACTIONS, THE FOLLOWING MINIMUM NUMBER OF BOLT ROWS SHALL BE USED:

MEMBER DEPTH	MINIMUM BOLT ROWS
10" or Less	2
12" to 14"	3
16" to 18"	4
21" to 24"	5
27" to 30"	6
Over 30"	7

CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER ASTM A325 BOLTS (SNUG TIGHT OR SLIP CRITICAL) OR WELDS, UNLESS NOTED OTHERWISE. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES USING CLASS A FAYING SURFACE.

USE LARGER OF 1/4" FILLET WELDS OR MINIMUM SIZE PER AISC REQUIREMENTS WHERE NO WELD SIZE IS SHOWN ON DRAWINGS.

WELDS IN EXCESS OF 24" IN LENGTH SHALL BE 3" STITCH WELDS AT 8" ON CENTERS, UNLESS SPECIFICALLY SHOWN ON DRAWINGS TO BE CONTINUOUS.

MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP FULL MOMENT CAPACITY OF THE ELEMENTS CONNECTED, UNLESS SPECIFIC MOMENT IS INDICATED ON THE DRAWINGS.

7. NO WELDING OR FINAL BOLTING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE THAT WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

8. SEQUENCE OF PLACING WELDS SHALL BE SUCH AS TO AVOID DISTORTION OF MEMBERS.

9. SUBSTITUTION OF STRUCTURAL STEEL MEMBERS IS PERMITTED TO FACILITATE DELIVERY AT NO ADDITIONAL COST TO THE OWNER. SUBSTITUTED MEMBERS MUST BE OF THE SAME NOMINAL DEPTH AS THE MEMBER ORIGINALLY INDICATED AND HAVE A WEIGHT GREATER THAN THAT INDICATED. BEAM FLANGES MUST NOT INFRINGE ON ADJACENT ARCHITECTURAL ELEMENTS.

10. ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE THE FOLLOWING MASONRY ANCHORAGE:

16 GAGE GALVANIZED CHANNEL SLOTS (DUR-O-WAL, INC. D/A 901) WELDED TO COLUMNS AND BEAMS WITH 1/4" GALVANIZED STRAP ANCHORS (DUR-O-WAL, INC. D/A 914) SPACED 1'-4" O.C. AT COLUMNS AND 1'-4" AT BEAMS (UNLESS OTHERWISE NOTED). INSTALL PER MANUFACTURER'S SPECIFICATIONS.

12. PROVIDE DEFORMED BAR ANCHORS ON THE TOP OF ALL BEAMS SUPPORTING CONCRETE MASONRY UNIT WALLS OR MULTI-WYTHE BRICK WALLS. THE ANCHORS SHALL BE WELDED AT 24" ON CENTER AND SHALL BE THE SAME SIZE AS THE WALL REINFORCING. DEFORMED BAR ANCHORS SHALL BE PLACED BY A TIMED STUD WELDING MACHINE.

13. STEEL MEMBERS SHOWN CONNECTED TO MASONRY WITH EXPANSION ANCHORS SHALL HAVE 3/4" DIAMETER EXPANSION ANCHORS AT 2'-8" ON CENTERS IN VERTICALLY SLOTTED HOLES, UNLESS OTHERWISE INDICATED.

14. BEAMS BEARING ON MASONRY SHALL HAVE ANGLE WALL ANCHORS WELDED TO THE BEAM, AS DETAILED IN THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION.

15. PROVIDE 8" X 8" X 5/8" BEARING PLATES FOR ALL WALL BEARING BEAMS UNLESS NOTED OTHERWISE. ALL PLATES SHALL HAVE A MINIMUM OF (2)-3/4" DIAMETER X 5" LONG WELDED STUDS ON THE BOTTOM TO SET IN CONCRETE OR MASONRY WALLS.

16. SHOP APPLIED PRIMER SHALL BE APPLIED TO ALL STRUCTURAL STEEL TO, UNLESS OTHER PROTECTIVE COATING IS INDICATED ON THE ARCHITECTURAL DRAWINGS.

21. ALL STEEL MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH PRESSURE TREATED LUMBER OR WOOD PRODUCTS IN THE COMPLETED CONSTRUCTION SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

22. PROVIDE BITUMASTIC PROTECTION COATING FOR ALL STRUCTURAL STEEL BELOW GRADE.

24. PROVIDE 1/4" CLOSURE PLATES WITH FULL SEAL WELDS FOR ALL TUBE OR PIPE HOLLOW STEEL SECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

25. PROVIDE AN ELEVATOR HOIST BEAM AT EACH ELEVATOR. THE BEAM SHALL BE A W8X21 MINIMUM. COORDINATE WITH THE ARCHITECTURAL DRAWINGS. THE BEARING PLATE ON MASONRY WALLS SHALL BE A PLATE 3/4"X8"X12"-MINIMUM WITH (2)-3/4" DIAMETER ANCHOR BOLTS SET INTO GROUTED MASONRY.

26. CONTRACTOR IS RESP

ABBREVIATIONS

AC	AIR COMPRESSOR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AMB	AMBIENT
APROX	APPROXIMATE
AS	AIR SEPERATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACK DRAFT DAMPER
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BMS	BULIDING MANAGEMENT SYSTEM
BTUH	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CDR	CONDENSER WATER RETURN
CDS	CONDENSER WATER SUPPLY
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMPS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
COND	CONDENSER
CONV	CONVECTOR
CP	CONDENSATE PUMP
CPU	CENTRAL PROCESSING UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CV	COEFFICIENT, VALVE FLOW
CV	CONSTANT VOLUME
D	DEPTH
DB	DRY BULB TEMPERATURE
dB	DECIBEL
DEG or °	DEGREE
DIA or Ø	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD RADIATION
EDR	EQUIVALENT DIRECT RADIATION
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FD/SB	FIRE DAMPER WITH INTEGRAL SECURITY BARS
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FSD	FIRE/SMOKE DAMPER
FT	FOOT OR FEET
G	GAS
GA	GAUGE
GAL	GALLONS
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HEIGHT
H/C	HEATING/COOLING
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HT	HEAT
HTHW	HIGH TEMPERATURE HOT WATER

ABBREVIATIONS

HTHWR	HIGH TEMPERATURE HOT WATER RETURN
HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY
HTR	HEATER
HUM	HUMIDIFIER
HV	HEATING/VENTILATION UNIT
HW	HOT WATER
HWR	HOT WATER RETURN
HWRP	HOT WATER RETURN PUMP
HWRR	HOT WATER REVERSE RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	FREQUENCY (CYC, PER SEC.)
ID	INSIDE DIAMETER
IN	INCHES
IN WG	INCHES OF WATER, GAUGE (PRESS.)
IW	INDIRECT WASTE
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
N2	NITROGREN
N2O	NITROUS OXIDE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
PCD	PUMPED CONDENSATE DRAIN (COOLING)
PCR	PUMPED CONDENSATE RETURN (STEAM)
PD	PRESSURE DROP
PH or Ø	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RG	REFRIGERANT GAS
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RM	ROOM
RPD	REDUCED PRESSURE DEVICE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S&R	SUPPLY AND RETURN
SA	SUPPLY AIR
SCP	STEAM CONDENSATE PUMP
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
T'STAT	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTAGE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W	WIDTH
WB	WET BULB TEMPERATURE
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

HVAC SYMBOLS

	RECTANGULAR, FLAT OVAL OR ROUND AIR DUCT
	AIR DUCT WITH ACOUSTICAL LINING
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	TURNING VANES
AD / AD	ACCESS DOOR
	FLEXIBLE DUCT CONNECTION
	CEILING SUPPLY DIFFUSERS
	CEILING RETURN / EXHAUST GRILLE
	HARD DUCTED DIFFUSER OR GRILLE WITH FULL SIZE BOTTOM TAKE-OFF
	DIRECTION OF SUPPLY OR OUTDOOR AIRFLOW
	DIRECTION OF RETURN OR EXHAUST AIRFLOW
	DOOR UNDERCUT
BDD	BACK DRAFT DAMPER
VD	VOLUME DAMPER
FD	FIRE DAMPER
FD/SB	FIRE DAMPER WITH INTEGRAL SECURITY BARS
FS	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER SYSTEM AND ASSOCIATED DEVICES PER SPECIFICATIONS AND MEP DETAILS
M	MOTORIZED DAMPER
H	HUMIDIFIER TUBE/PANEL
XXX	SUPPLY PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX)
XXX	RETURN PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX)
DS	DUCT SMOKE DETECTOR WITH REMOTE INDICATING LIGHT AND TEST SWITCH
SP	DUCT STATIC PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
AFS	AIR FLOW STATION
SA	DUCT SOUND ATTENUATOR
T	ROOM THERMOSTAT
T	ROOM TEMPERATURE SENSOR
CO	CARBON MONOXIDE SENSOR
C	CARBON DIOXIDE SENSOR
H	HUMIDISTAT
	FINNED TUBE RADIATION
FM	FLOW METER
RC	VRF REMOTE CONTROL

FITTINGS AND VALVES

	BACKFLOW PREVENTOR
	STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN
	PIPE ELBOW UP OR PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	TAKEOFF FROM BOTTOM OF MAIN PIPE
	TAKEOFF FROM TOP OF MAIN PIPE
	IN-LINE EXPANSION COMPENSATOR
	PIPE ANCHOR
	COMPANION FLANGE
	PIPE CAP OR CAPPED END OF PIPE
	UNION
	PIPE GUIDES
	PUMP
	DIRECTION OF FLUID FLOW
	VALVE ON RISER
	VALVE ON DROP
	AIR VENT
	FLOW SENSOR
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALL VALVE
	CALIBRATED BALANCING VALVE
	SHUT-OFF VALVE (SEE SPECIFICATIONS FOR APPLICATION TYPE)
	BUTTERFLY VALVE
	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	PRESSURE REDUCING VALVE
	TRIPLE DUTY VALVE
	OS&Y VALVE
	DRAIN VALVE WITH HOSE END, CAP & CHAIN OR WALL HYDRANT / HOSE BIBB
M	MOTORIZED BUTTERFLY VALVE
	PRESSURE RELIEF SAFETY VALVE
A	AQUASTAT
T	TEMPERATURE SENSOR WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
T	TEMPERATURE GAUGE WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
	THERMOMETER WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
P	PRESSURE GAUGE
P	PRESSURE SENSOR WITH SYPHON (STEAM)
FLEX	FLEXIBLE CONNECTOR

DUCT SIZING	
20x12	RECTANGULAR DUCT
20/12	FLAT OVAL DUCT
20"ø	ROUND DUCT

HVAC GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED HVAC SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL PIPING AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. INSTALL SMOKE DETECTORS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND GREATER.
11. PROVIDE SMOKE DAMPERS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 15,000 CFM AND GREATER.
12. PROVIDE SMOKE DAMPERS AND SMOKE DETECTORS AT DUCT PENETRATIONS OF SMOKE-BRRIERS, AND AT ELEVATOR SHAFT VENTS PER CODE REQUIREMENTS.
13. PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS OF FIRE-RATED CONSTRUCTION, INCLUDING WALLS, SHAFTS AND FLOOR PENETRATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
14. PROVIDE AN AUTOMATIC TEMPERATURE CONTROL SYSTEM COMPLETE IN ALL REGARDS. ALL ZONES, VAV'S AND SYSTEM SHALL BE THERMOSTATICALLY CONTROLLED. REVIEW THE PLANS AND SPECIFICATIONS OF ALL MEP TRADES FOR A COMPLETE SCOPE OF THE WORK.
15. PIPING SHALL BE SUPPORTED FROM STRUCTURE ABOVE. TO MAXIMIZE HEAD ROOM, INSTALL PIPING TIGHT TO BOTTOM OF BEAMS WHEN RUNNING PERPENDICULAR TO BEAM; INSTALL PIPING TIGHT TO FLOOR SLAB WHEN RUNNING PARALLEL TO BEAM; PROVIDE ALL NECESSARY FITTINGS AND TRANSITIONS.
16. PROVIDE THROTTLING VALVES AND SHUT-OFF VALVES AS INDICATED IN SPECIFICATIONS IN ADDITION TO THOSE INDICATED ON THE DOCUMENTS.
17. INSTALL ALL EQUIPMENT VALVES AS REQUIRED BY MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS AND AS DETAILED.
18. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS.
19. PROVIDE PRESSURE RELIEF DOORS FOR AIR SYSTEMS, PER THE SPECIFICATIONS.
20. PROVIDE MOTORIZED DAMPERS AT ALL PERMANENT OPENINGS (EXHAUST, SUPPLY, RELIEF, O.A. INTAKES, MAKE-UP AIR, SMOKE VENTS, ETC.) EXCEPT DRYER, KITCHEN, AND FUME EXHAUST AND PROVIDE A MEANS TO CONTROL THE DAMPER OPERATION.
21. ALL SUPPLY RECTANGULAR 90° ELBOWS SHALL HAVE TURNING VANES.
22. PROVIDE DUCT TAKE-OFF TYPES AND VOLUME DAMPERS PER THE SPECIFICATIONS AND DUCT TAKE-OFF DETAILS ON DRAWINGS. TAKE-OFFS SHOWN ON FLOOR PLANS DO NOT REPRESENT THE SPECIFIC TYPE OF TAKE-OFF REQUIRED; CONSULT THE DETAILS AND SPECIFICATIONS.
23. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, EXHAUST, AND RETURN BRANCH DUCTS.
24. COORDINATE AND VERIFY LOCATIONS OF ALL ITEMS REQUIRING ACCESS WITH ARCHITECT IN FIELD., INCLUDING VALVES, VOLUME DAMPERS, FIRE DAMPERS, ETC.
25. ALL EQUIPMENT LOCATED ON THE ROOF THAT REQUIRES SERVICING SHALL BE LOCATED A MINIMUM 10'-0" FROM EDGE OF THE ROOF.
26. ALL EXPOSED DUCTWORK SHALL BE FLAT, OVAL, OR ROUND. COORDINATE WITH ARCHITECT'S CEILING PLANS AND IDENTIFY ON DUCTWORK SHOP DRAWINGS.
27. ALL DUCTWORK AND PIPING CROSSING SEISMIC JOINTS SHALL ACCOMMODATE DIFFERENTIAL MOTION. REFER TO DETAILS AND SPECIFICATIONS FOR MORE INFORMATION. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS.
28. ALL THERMOSTATS LOCATED ON OUTSIDE WALL SHALL HAVE INSULATED PAD BEHIND.
29. ALL MOTORIZED DAMPERS SHALL BE WIRED BY ATC CONTRACTOR, COORDINATE VOLTAGE REQUIREMENTS WITH EQUIPMENT.
30. ALL TOILETS & BATHROOMS SHALL HAVE 3/4" UNDERCUT DOORS.
31. ALL LOUVERS ARE SELECTED AND SCHEDULED BY ARCHITECT. LOUVER TAGS ARE SHOWN FOR COORDINATION ONLY.
32. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.
33. PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH THE CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT OF THE FINDINGS.

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SUITE 202
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PROJECT
CD SET

KEY PLAN

DRAWING TITLE
MECHANICAL GENERAL INFORMATION

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As Indicated
DATE	02/06/2023
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M0.01

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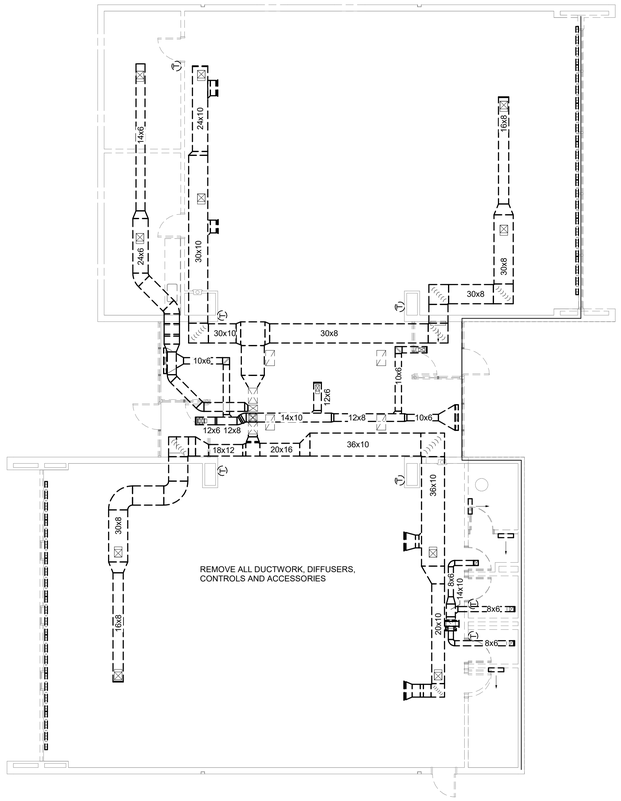

1 FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

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PROJECT

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KEY PLAN

DRAWING TITLE

FIRST FLOOR MECHANICAL DEMOLITION PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

MD1.01

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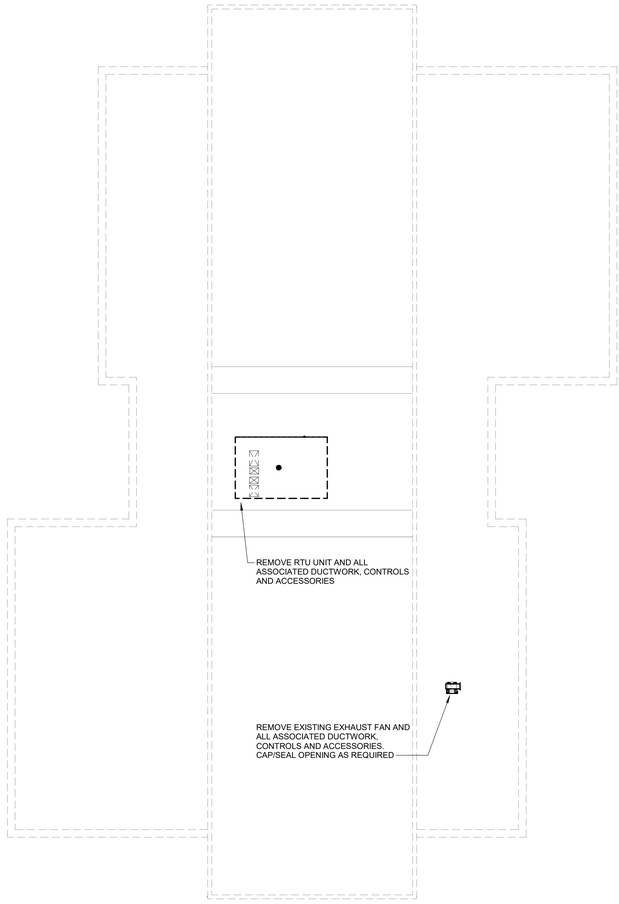

1 ROOF MECHANICAL DEMOLITION PLAN
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KEY PLAN

DRAWING TITLE

ROOF MECHANICAL DEMOLITION PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
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ISSUE DATES

NO.	DATE	PURPOSE

MD1.02

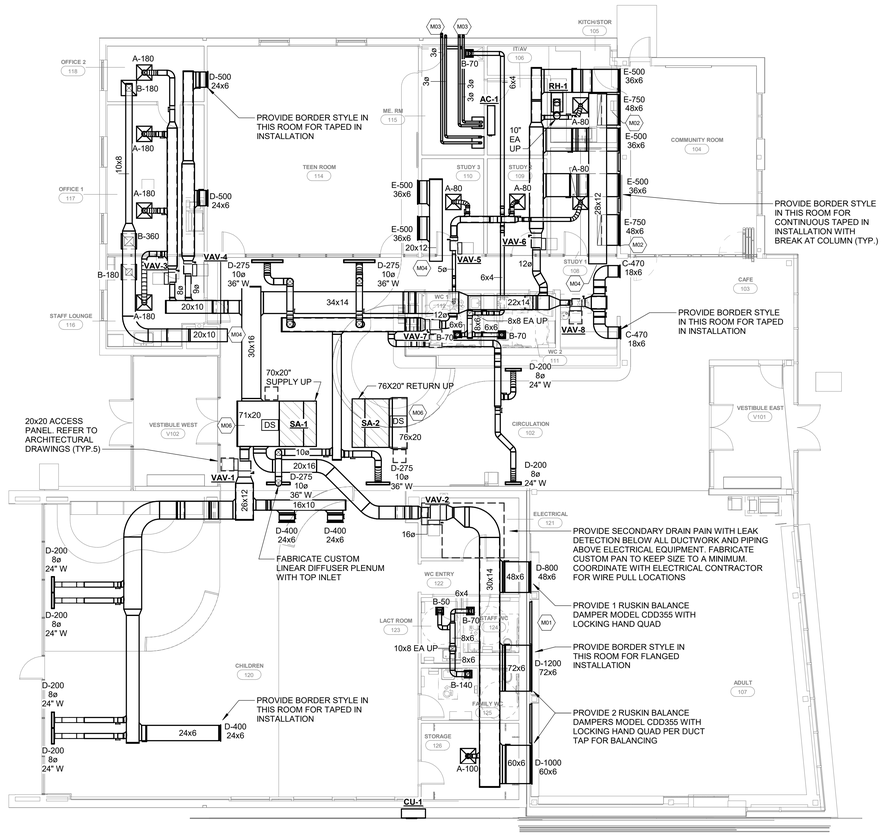
2/10/2023 3:07:35 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt

MECHANICAL KEYNOTES

M01	PROVIDE INACTIVE SECTION OF LINEAR GRILLE AS REQUIRED TO MAINTAIN CONTINUOUS LINEAR APPEARANCE
M02	REINFORCE DUCTWORK AS REQUIRED BY SMACNA STANDARDS
M03	ELBOW INTAKE DOWN AND 45 EXHAUST UP IN ACCORDANCE WITH MANUFACTURERS INSTALLATION REQUIREMENTS
M04	OPENED ENDED TRANSFER DUCT WITH WIRE MESH SCREEN
M06	46X20" SUPPLY AND 56X20" RETURN DUCTWORK SHALL BE 2" LINED, 14GA. DUCT WITH #2 LOADED VINYL LAGGING ON OUTSIDE TO ROOF OPENING, KINETICS KNM-B OR EQUIVALENT

MECHANICAL DUCTWORK GENERAL NOTES:

1. THE FIRST 20' OF DUCTWORK OFF OF VAV BOXES SHALL BE INTERNALLY LINED WITH 1" DUCT LINER.
2. PAINT ALL DUCTWORK AND ACCESSORIES THAT ARE VISABLE ABOVE WOOD SLAT CEILING BLACK.



1 FIRST FLOOR MECHANICAL DUCT PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE

FIRST FLOOR
MECHANICAL DUCT PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
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ISSUE DATES

NO.	DATE	PURPOSE

M1.01

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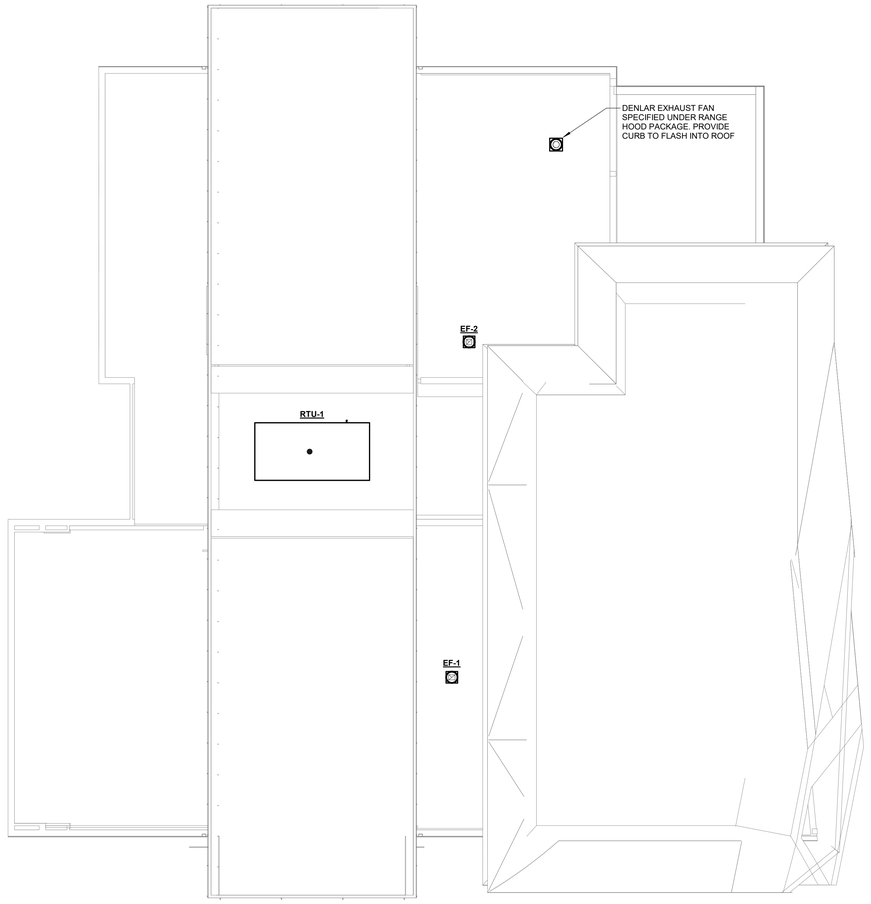

1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE

MECHANICAL ROOF PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	MJE
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ISSUE DATES

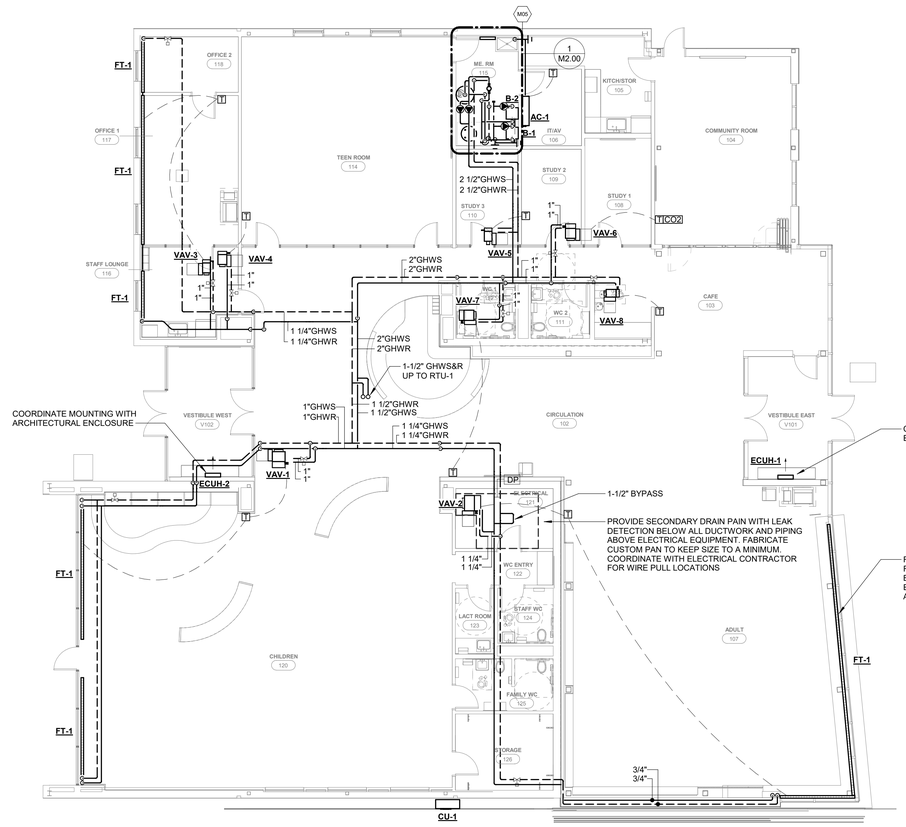
NO.	DATE	PURPOSE

M1.02

2/10/2023 3:07:26 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt

MECHANICAL GENERAL NOTES:

1. ALL HYDRONIC SUPPLY AND RETURN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PAINT ALL PIPING AND ACCESSORIES THAT ARE VISABLE ABOVE WOOD SLAT CEILING BLACK.



1 FIRST FLOOR MECHANICAL PIPE PLAN
1/8" = 1'-0"

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PROJECT

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KEY PLAN

DRAWING TITLE

FIRST FLOOR
MECHANICAL PIPE PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
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ISSUE DATES

NO.	DATE	PURPOSE

MP1.01

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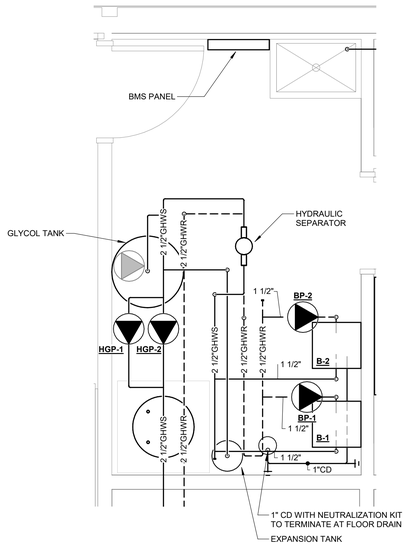
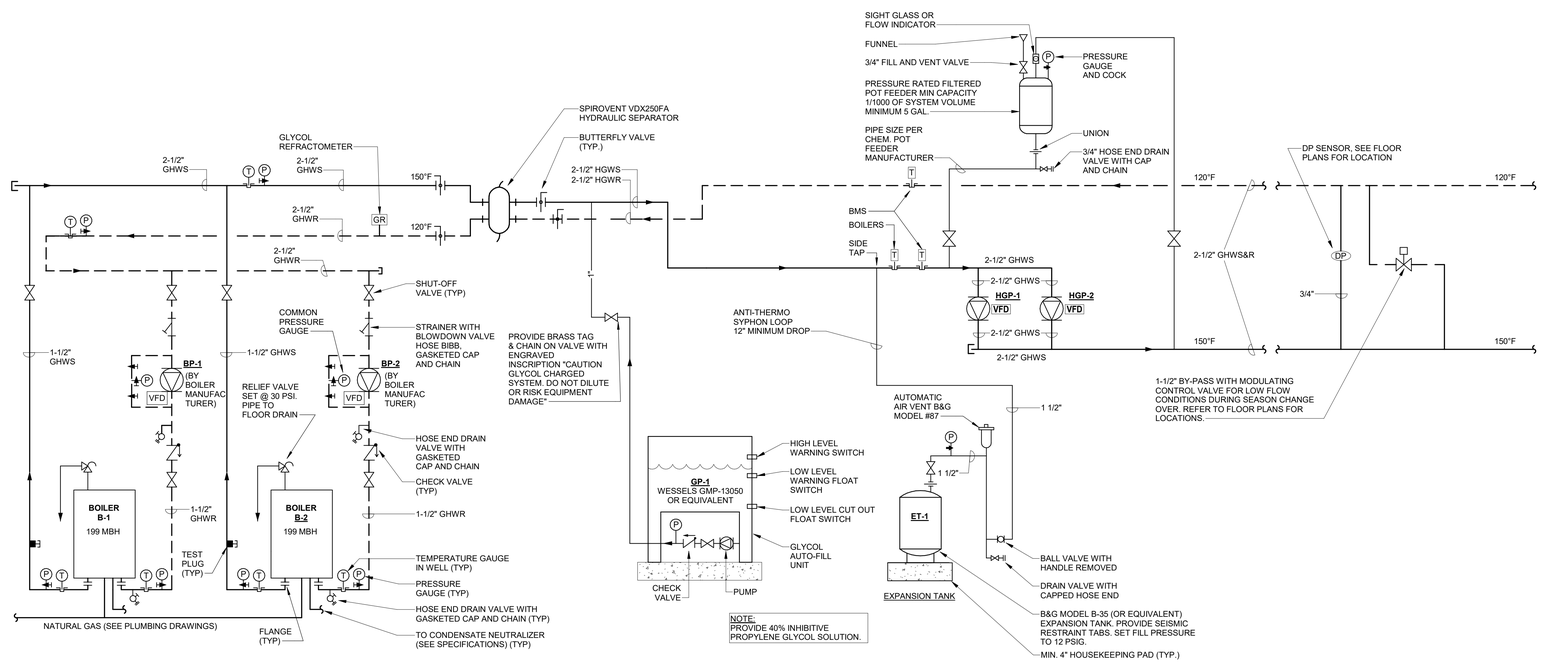


1 FIRST FLOOR MECHANICAL PIPE PLAN - PART PLAN
1/2" = 1'-0"



2 HOT WATER SYSTEM PIPING DIAGRAM
NTS

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SUITE 202
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P: (860) 436-4336
F: (860) 436-4450
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PROJECT
CD SET

KEY PLAN

DRAWING TITLE
MECHANICAL PART PLAN AND ONE LINE PIPING DIAGRAM

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	MJE
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ISSUE DATES

NO.	DATE	PURPOSE

M2.00

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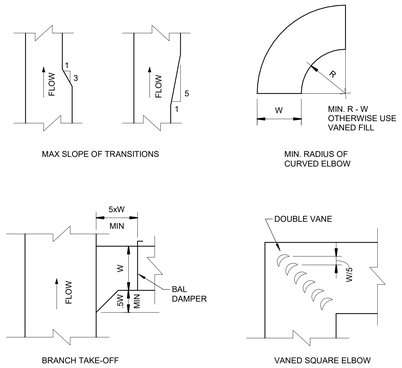
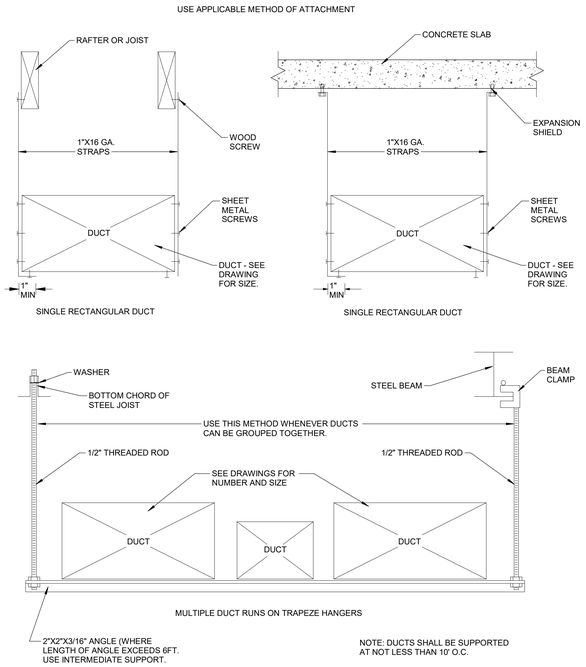
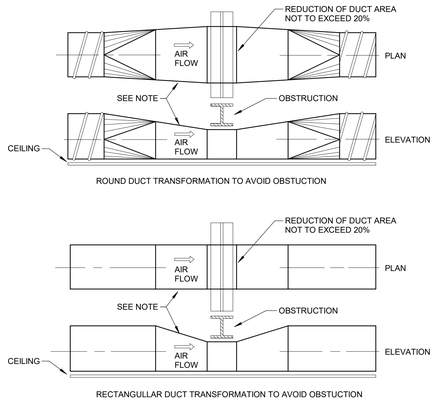


1 DUCT CONSTRUCTION DETAIL
NTS

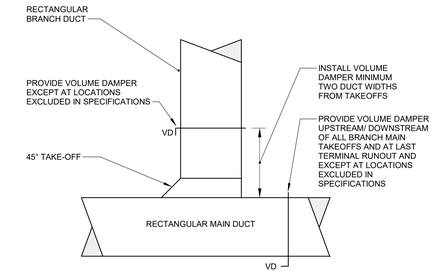


2 DUCT INSTALLATION DETAIL
NTS

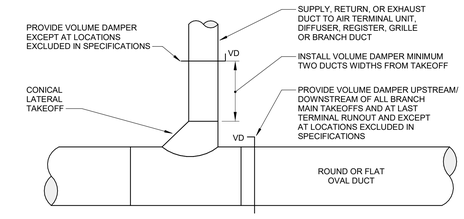


NOTES:
- 1:7 SLOPE FOR HIGH VELOCITY
- 1:4 SLOPE FOR LOW VELOCITY

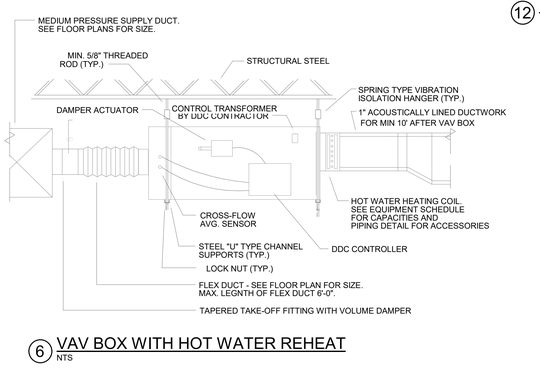
3 DUCT OBSTRUCTION TRANSFORMATION DETAILS
NTS



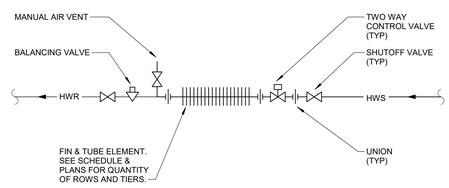
4 RECTANGULAR BRANCH TAKEOFF DETAIL
NTS



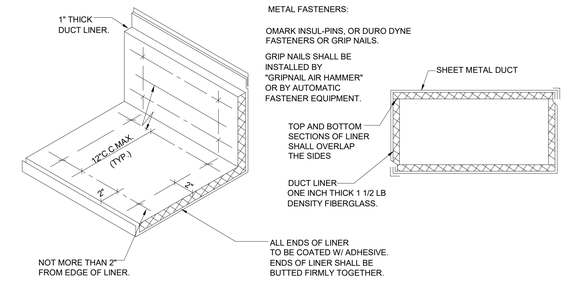
5 ROUND FLAT OVAL DUCT TAKEOFF DETAIL
NTS



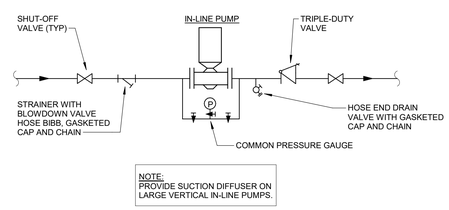
6 VAV BOX WITH HOT WATER REHEAT
NTS



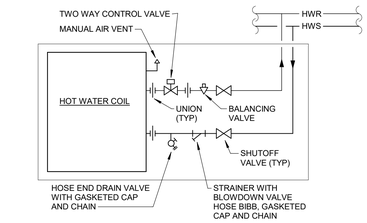
9 HOT WATER RADIATION PIPING DETAIL
NTS



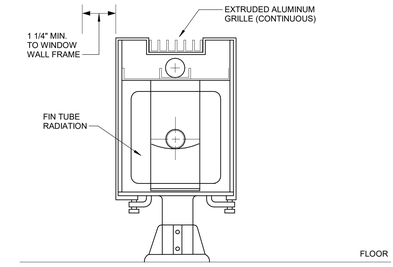
12 DUCT LINER DETAIL
12" = 1'-0"



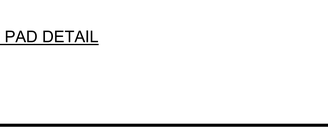
10 IN-LINE PUMP DETAIL
NTS



8 CABINET UNIT HEATER PIPING DETAIL
NTS

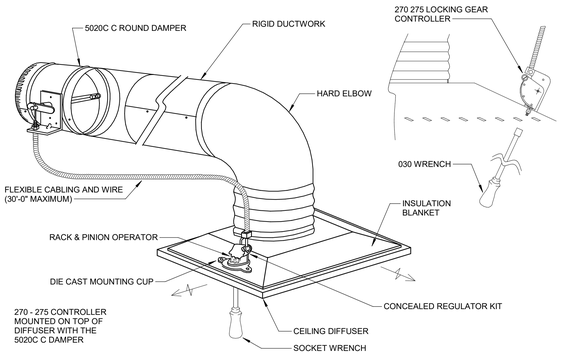


11 PEDSTAL RADIATION DETAIL
NTS



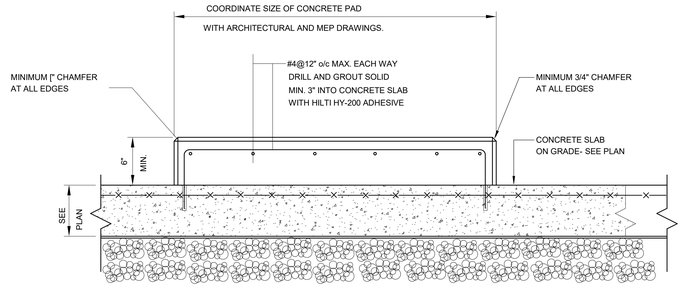
NOTE:
TRANSFER AIR DUCT OPENING SHALL BE EQUAL TO 1 SQ. FT. PER 500 CFM OF SYSTEM AIR. DUCT TO BE A MINIMUM OF 4'-0" LONG, WITH 1" OF ACOUSTICAL LINING. MINIMUM OPENING 1 SQ. FT.

7 TRANSFER AIR DUCT
NTS



NOTE:
1. COORDINATE EXACT LOCATION OF CEILING MOUNTED CONCEALED REGULATOR WITH ARCHITECT PRIOR YO INSTALLATION.
2. YOUNG REGULATOR SHOULD ONLY BE USED WHERE ACCESS FOR VOLUME IS LIMITED AND CAN NOT BE DONE VIA DIFFUSER.

14 YOUNG REGULATOR WITH REMOTE CABLE
NTS



NOTES:
PAD TO BE 6" LARGER THAN EQUIPMENT IN ALL DIRECTIONS
3000 PORTLAND PSI CEMENT
GROOVE PAD FOR GROUT IF NEEDED FOR PUMP

13 TYPICAL HOUSEKEEPING PAD DETAIL
1" = 1'-0"

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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
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PROJECT
CD SET

KEY PLAN

DRAWING TITLE
MECHANICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M3.00

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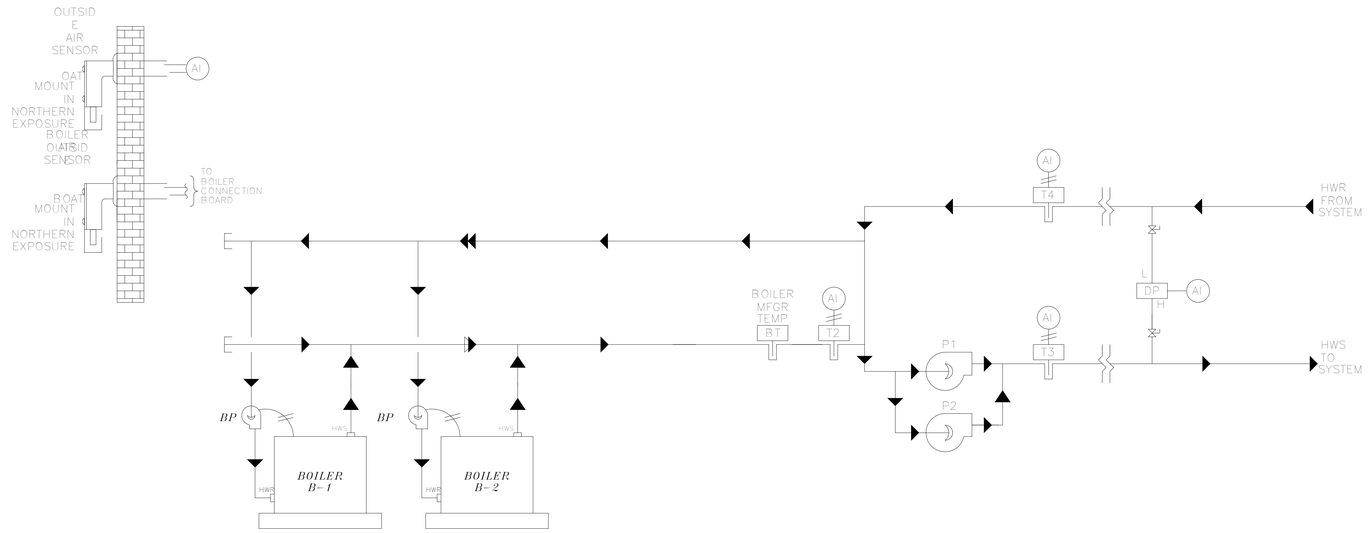
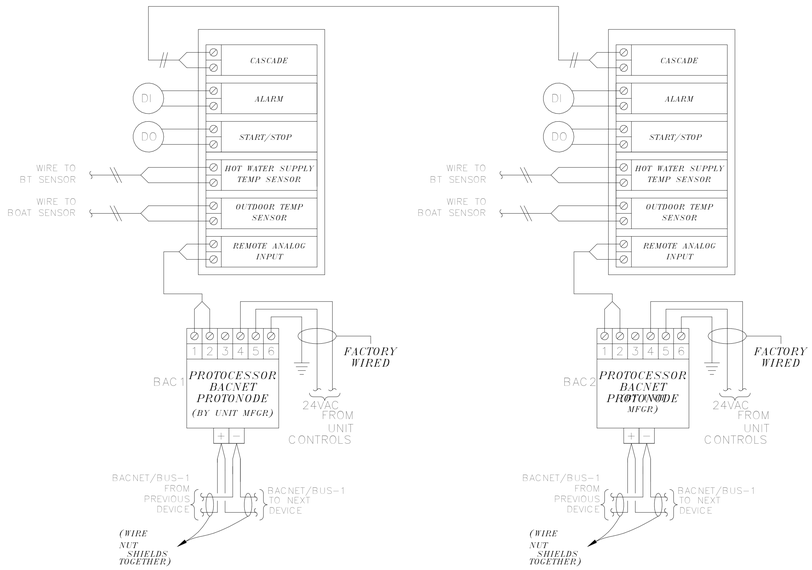
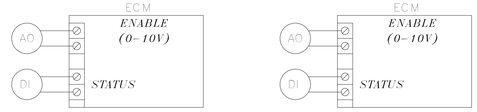


HOT WATER SYSTEM

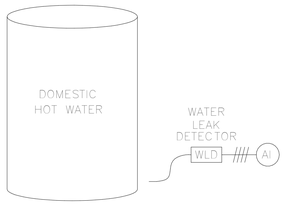


BOILER B-1 CONTROL

BOILER B-2 CONTROL



HOT WATER PUMPS CONTROL



DOMESTIC WATER HEATER

HEATING HOT WATER SYSTEM

THE HOT WATER SYSTEM WILL BE ENABLED AUTOMATICALLY THROUGH THE BUILDING AUTOMATION SYSTEM (BAS) BASED ON A CALENDAR SCHEDULE SET BY USER AND AN OUTSIDE AIR TEMPERATURE BELOW 65 DEG F. THE ATC WILL MOUNT AND WIRE THE BOILER PLANT CONTROLLER AND ASSOCIATED DEVICES PROVIDED BY THE BOILER MANUFACTURER.

THE BAS WILL INTEGRATE THROUGH BACNET TO THE BOILER PLANT CONTROL DEVICES TO PROVIDE ALL INFORMATION AVAILABLE FROM THE PLANT CONTROLLER TO THE BAS OPERATOR WORKSTATION.

THE CONDENSING WATER BOILERS WILL BE SUPPLIED. THE BOILERS WILL BE SEQUENCED AT LOW FIRE BASED ON THE BOILER PLANT CONTROLLER AS SUPPLIED BY THE BOILER MANUFACTURER. EACH BOILER WILL REMAIN AT LOW FIRE UNTIL ALL BOILERS HAVE BEEN ENABLED.

AS EACH BOILER IS ENERGIZED, IT ' S PRIMARY PUMP WILL START. STATUS OF PUMPS WILL BE MONITORED VIA END SWITCHES.

THE SECONDARY HOT WATER DISTRIBUTION PUMP WILL START.

IF ALL OF THE HYDRONIC BOILERS ARE ENABLED AND ADDITIONAL HEAT IS REQUIRED, THE BOILER SEQUENCING SYSTEM WILL RELEASE THE BOILERS TO MODULATE. OPERATING HYDRONIC BOILERS AT LOWER FIRING RATE LEVELS PROVIDES SIGNIFICANT EFFICIENCY GAINS, THEREFORE, HYDRONIC BOILERS WILL MODULATE TOGETHER AS A SINGLE UNIT TO KEEP THE HYDRONIC BOILER SYSTEM AT THE LOWEST POSSIBLE FIRING RATE, WHILE SATISFYING THE BUILDING LOAD DEMANDS.

AS THE HYDRONIC LOOP TEMPERATURE INCREASES, THE BOILER SEQUENCING SYSTEM WILL DECREASE THE FIRING RATE OF THE HYDRONIC BOILERS TO MAINTAIN THE HYDRONIC LOOP TEMPERATURE IF ALL OF THE HYDRONIC BOILERS ARE AT LOW FIRE AND THE HYDRONIC LOOP TEMPERATURE CONTINUES TO RISE, THE BOILER SEQUENCING SYSTEM WILL BEGIN TO STAGE THE BOILERS OFF. THE FIRST LAG BOILER STAGE ENERGIZED WILL BE THE LAST STAGE TO BE DISABLED. THE HYDRONIC BOILERS WILL CONTINUE TO BE DISABLED BY THE BOILER SEQUENCING SYSTEM BASED ON THE TEMPERATURE RISE OF THE HYDRONIC LOOP.

THE LEAD BOILER IS DISABLED WHEN THE HYDRONIC LOOP TEMPERATURE REACHES A SELECTABLE VALUE REFERENCED AROUND THE HYDRONIC LOOP SETPOINT. ALL PUMPS WILL BE PROVIDED WITH HAND-OFF-AUTO SWITCHES AT THE STARTER OR VARIABLE FREQUENCY DRIVES. THE BAS WILL CONTROL THE SYSTEM IN THE " AUTO " MODE.

THE HEATING WATER SUPPLY SET POINT IS RESET BASED ON OUTDOOR AIR TEMPERATURE.

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 10 DEGREES F (ADJ.) THE SET POINT IS 150 DEGREES F (ADJ.). WHEN THE OUTDOOR AIR TEMPERATURE IS BETWEEN 10 AND 50 DEGREES F (ADJ.), THE SET POINT IS 130 DEGREES F (ADJ.). WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 50 DEGREES F (ADJ.), THE SETPOINT IS 110 DEGREES F (ADJ.).

TWO EQUAL SIZED PUMPS RUNNING IN PARALLEL:

THE LEAD PUMP WILL RUN FIRST. IF LEAD PUMP FAILS, THE NEXT AVAILABLE PUMP WILL STAGE ON AND THE FAILED PUMP WILL BE REMOVED FROM OPERATION. PROVIDE ALARM FOR PUMP FAILURE. THE CONTROLLER WILL MEASURE THE HOT WATER DIFFERENTIAL PRESSURE AND MODULATE THE BYPASS VALVE IN SEQUENCE TO MAINTAIN ITS HOT WATER DIFFERENTIAL PRESSURE SETPOINT.

THE HOT WATER DIFFERENTIAL PRESSURE SENSORS WILL BE LOCATED 2/3 LENGTH DOWN THE LONGEST MAIN DISTRIBUTION LINE. LOCATION(S) WILL BE COORDINATED IN FIELD.

THE FOLLOWING SETPOINTS ARE RECOMMENDED VALUES. ALL SETPOINTS WILL BE FIELD ADJUSTED DURING THE COMMISSIONING PERIOD TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS.

THE CONTROLLER WILL MODULATE THE LEAD PUMP(S) TO MAINTAIN SETPOINT. IF THE LEAD PUMP(S) CANNOT MAINTAIN SETPOINT, THE LAG PUMP WILL STAGE ON IN UNISON WITH THE LEAD PUMP(S).

ON RISING HOT WATER DIFFERENTIAL PRESSURE, THE PUMPS WILL STAGE OFF AS FOLLOWS: IF THE SETPOINT IS MAINTAINED, THE LAG PUMP WILL STAGE OFF.

TO PREVENT SHORT CYCLING, THERE WILL BE A 15 MINUTE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE WILL HAVE A 30 MINUTE (ADJ.) MINIMUM RUNTIME.

THE DESIGNATED STAGING ORDER OF THE PUMPS WILL ROTATE ON ONE OF THE FOLLOWING CONDITIONS (USER SELECTABLE): MANUALLY THROUGH A SOFTWARE SWITCH
WEEKLY BASED WITH LEAD PUMP(S) BASED ON RUNTIME.
IF FOR ANY REASON ITS STATUS DOES NOT MATCH ITS COMMANDED VALUE AN ALARM WILL BE GENERATED. THE LAG PUMP WILL START IF THE LEAD PUMP IS IN ALARM.

AN EMERGENCY SHUT OFF SWITCH WILL BE PROVIDED AT EACH EGRESS. IF THE SWITCH IS ACTIVATED, ALL COMBUSTION EQUIPMENT WILL BE DISABLED. THESE SWITCHES WILL BE HARD WIRED TO ALL COMBUSTION EQUIPMENT.

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Hartford, CT 06106
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MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

MECHANICAL CONTROLS DIAGRAMS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	NTS
DATE	02/06/2023
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M4.00

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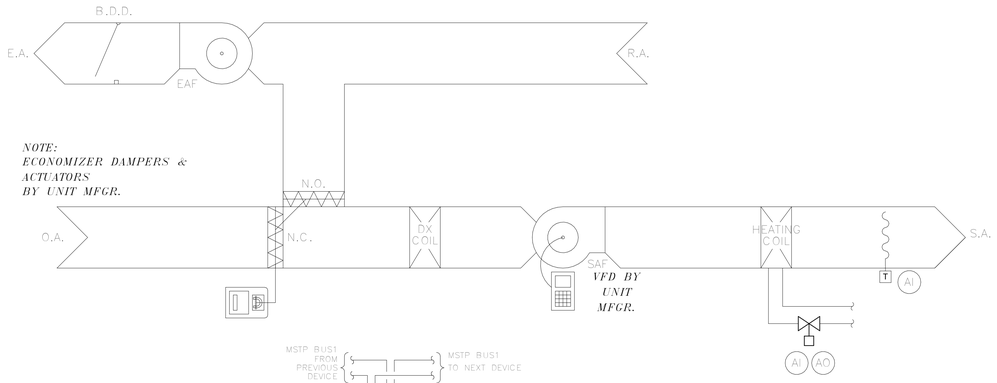
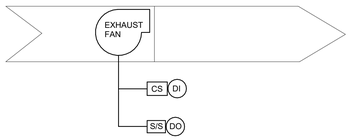


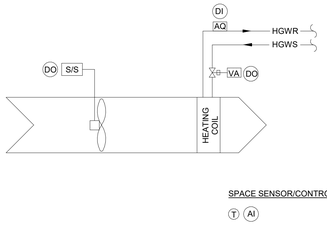
ROOFTOP UNIT RTU−1 CONTROL



TOILET EXHAUST FANS

1. SEQUENCE OF OPERATION
   - A. OCCUPIED/UNOCCUPIED MODE CONTROL SHALL BE AS SCHEDULES THROUGH THE HEAD END FOR THE ASSOCIATED AIR SYSTEM
   - B. DURING UNOCCUPIED TIMES THE FAN SHALL REMAIN OFF.
   - C. DURING OCCUPIED TIMESTHE FAN SHALL START AND RUN CONTINUOUSLY.
2. ALARMS
   - A. FAN FAILURE
3. GRAPHICS
   - A. ALARM CONDITION
   - B. OCCUPIED/UNOCCUPIED MODE
   - C. FAN STATUS

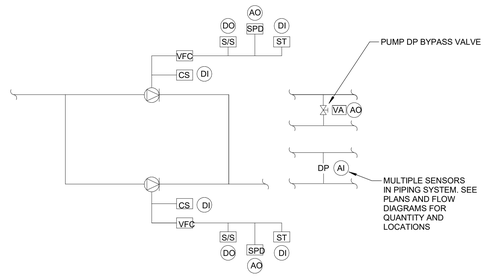
2 EXHAUST FAN CONTROL #1, #2 (TOILET)
NTS



HEATING ONLY HOT WATER UNIT HEATERS

1. SEQUENCE OF OPERATION
   - A. ON A CALL FOR HEAT FROM SPACE SENSOR, A TWO POSITION, NORMALLY OPEN HEATING VALVE SHALL OPEN
   - B. SUBJECT TO A STRAP ON AQUASTAT, THE FAN SHALL START
   - C. WHERE A WALL MOUNTED SENSOR IS INDICATED PROVIDE WITH "FAN: ON-AUTO" SWITCH
2. ALARMS
   - A. LOW SPACE TEMPERATURES
3. GRAPHICS
   - A. ALARM CONDITION
   - B. SPACE TEMPERATURE
   - C. VALVE COMMAND STATUS

3 TYPICAL HEATING ONLY GLYCOL HOT WATER UNIT/CABINET UNIT HEATERS
NTS



VARIABLE SPEED LEAD/LAD PUMP CONTROL

1. SEQUENCE OF OPERATION
   - A. HEATING PUMPS SHALL BE ENABLED YEAR ROUND. WHENEVER AT LEAST ONE HEATING VALVE IS COMMANDED TO ANY OPEN PERCENTAGE. WHEN ALL BUILDING HEATING VALVES ARE COMMANDED CLOSED THE SYSTEM SHALL BE DISABLED.
   - B. THE LEAD PUMP SHALL BE SELECTED SWITCHING QUARTERLY
   - C. UPON FAILURE OF THE LEAD PUMP AS SENSED BY THE CURRENT TRANSFORMERS OR FAILURE OF THE DRIVE IT SHALL SHUT DOWN AND THE LAG PUMP SHALL START AUTOMATICALLY.
   - D. PUMP SPEED SHALL BE VARIED AS REQUIRED TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE. IF MULTIPLE DIFFERENTIAL PRESSURE TRANSMITTERS ARE USED IN THE SYSTEM THE LOWEST CONSTANTLY POLLED PRESSURE SHALL BE USED.
   - E. WHENEVER THE VFC IS AT MINIMUM SPEED AND ALL DIFFERENTIAL PRESSURE SENSORS ARE ABOVE SET POINT THE BY-PASS VALVE SHALL MODULATE OPEN TO MAINTAIN SET POINT AT THE LOWEST SENSOR.
2. ALARMS
   - A. PUMP FAILURE
   - B. DRIVE FAILURE
   - C. SYSTEM FAILURE (BOTH PUMPS NOT RUNNING)
3. GRAPHICS
   - A. ALARM CONDITIONS
   - B. SPEED COMMAND PERCENTAGE
   - C. PUMP STATUSES
   - D. SYSTEM DIFFERENTIAL PRESSURE(S)
   - E. MANUAL LEAD/LAG SELECTION
   - F. MANUAL SYSTEM ENABLE / DISABLE
   - G. BYPASS VALVE COMMAND PERCENTAGE

4 VARIABLE SPEED LEAD - LAG PUMP CONTROL
NTS

RTU-1 Sequence of Operations

Building Automation System: The Building Automation System (BAS) will send the controller Occupied / Unoccupied, Cooling, Pre-Cool, and Occupied Bypass modes. If a BAS is not present, or communication is lost with the BAS, the controller will operate using default modes and setpoints.

Occupied Mode: During occupied periods, the supply fan will run continuously and the outside air damper will open to current airflow setpoint. The DX cooling will stage as necessary to maintain the active discharge air temperature setpoint. The unit controller will control the supply fan speed to maintain the current duct static pressure setpoint (adj.). When economizer is enabled, free cooling will be first stage of cooling and compressors will be staged as necessary. If the discharge air temperature sensor fails, the DX cooling shall control to maintain the active space temperature setpoint and an alarm shall annunciate at the BAS. If the discharge air temperature sensor and the space temperature sensor fail, the DX cooling shall be disabled and an alarm shall annunciate at the BAS.

Unoccupied Mode: When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall be commanded on and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F minus the unoccupied differential 4.0 deg. F (adj.) the supply fan shall stop and the DX cooling shall be disabled.

Cooling Mode: When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan will start, the outside air damper will open if economizing is enabled and remain closed if economizing is disabled and the DX cooling will be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the DX cooling will be disabled, the outside air damper will remain closed, and supply fan will stop. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan will stop, the DX cooling will be disabled and the outside air damper will close.

Optimal Start: The BAS will monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Pre-Cool Mode: During optimal start, if the space temperature is above the occupied cooling setpoint, pre -cool mode will be activated. When pre -cool is initiated, the unit will enable the fan and cooling or economizer. When the space temperature reaches occupied cooling setpoint (adj.), the unit will transition to the occupied mode.

Optimal Stop: The BAS will monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller will maintain the space temperature to the space temperature offset setpoint.

Occupied Bypass Mode: The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode: The unit controller will use the discharge air temperature sensor and the discharge air cooling setpoint to calculate the discharge air temperature setpoint and determine when to initiate requests for cooling. When the discharge air temperature rises above the setpoint, the unit controller will modulate the economizer as required to maintain the discharge air temperature setpoint.
When the space temperature rises above the setpoint, the unit controller will modulate the economizer or stage the DX cooling as required to maintain the space temperature setpoint. Once all economizing requirements have been met, compressor operation will be enabled if the economizer alone cannot meet the demand. The first compressor will energize after its minimum 3 -minute off time has expired. If additional cooling capacity is required the second stage of cooling will be enabled. When the discharge air temperature rises above the setpoint, the unit controller will stage the DX cooling as required to maintain the discharge air temperature setpoint. Once the discharge air temperature falls below the discharge air temperature setpoint the compressor(s) will be deactivated. Once the active cooling demand has been satisfied, compressors will begin staging down in reverse order from the stage up sequence. The economizer will continue modulating or return to minimum position as determined by cooling and minimum airflow requirements.

Heating Mode: When in heating mode and discharge air temperature is below the setpoint of 55.0 deg. F (adj.), the heating coil valve shall modulate as required to maintain discharge air setpoint of 55.0 deg. F (adj.).

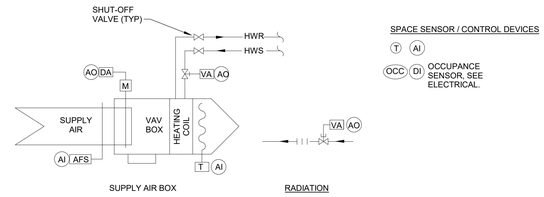
Outdoor Air Temperature Reset: The discharge air temperature setpoint will be adjusted based on the outside air temperature and the cooling and heating load of the building.

Comparative Enthalpy Economizer: The unit will measure the both outdoor air and return air temperature and humidity used to calculate enthalpy. The economizer will disable when outdoor enthalpy is 0.5 BTU/LB greater than return enthalpy or the outdoor air temperature above 75.0 deg. F, the humidity sensor maximum operating limit.

Supply Fan: During a request for operation, the supply fan will run continuously in the occupied mode and cycled on during the unoccupied mode. The unit controller will vary the supply fan speed to meet current cooling and heating loads. Once enabled, the supply fan(s) will ramp up to minimum speed and hold minimum speed until the unit determines a request for increased cooling exists. If the supply fan fails, the fan will be commanded off and an alarm will be annunciated at the BAS.

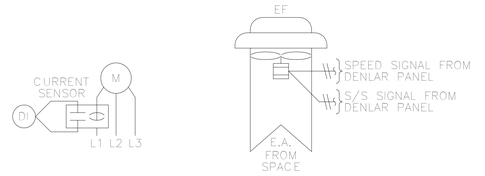
Supply Duct Static Pressure Control: During the occupied mode the unit controller shall modulate the output to the variable speed drive as required to maintain the supply duct static pressure setpoint of 1.5 inches of water column (W.C.) (adj.). If the supply duct static pressure falls below 1.3 inches of W.C. (adj.) the unit controller shall increase the output to the variable speed drive to maintain setpoint. If the supply duct static pressure rises above 1.7 inches of W.C. (adj.) the unit controller shall decrease the output to the variable speed drive to maintain setpoint. Upon a call for heating or cooling in the unoccupied mode the unit controller shall modulate the speed of the variable speed drive to 100%.

Building Pressure Control: The barometric (gravity operated) relief dampers will open with increased building pressure.



1. SEQUENCE OF OPERATION
   - A. OCCUPIED/UNOCCUPIED MODE CONTROL SHALL BE AS SCHEDULED THROUGH THE HEAD END FOR THE ASSOCIATED AIR SYSTEM. THE SPACE SHALL GO TO UNOCCUPIED MODE AUTOMATICALLY IF THE OCCUPANCY SENSOR INDICATES AN UNOCCUPIED CONDITION FOR MORE THAN 30 MINUTES (ADJ). SPACE SENSOR SHALL HAVE AN OVERRIDE SWITCH THAT WILL PUT THE ZONE INTO OCCUPIED MODE FOR A PERIOD OF 2 HOURS (ADJ.)
   - B. THE DAMPER SHALL MODULATE BETWEEN MAX AND MIN AIRFLOW SET POINTS TO SATISFY SPACE OCC/UNOC TEMPERATURE SET POINT.
   - C. MIN AIRFLOW SET POINT SHALL BE RESET UP FROM DESIGN MINIMUM BASED ON THE HIGHER REQUIREMENT OF EITHER HEATING NEED OR CARBON DIOXIDE LEVEL ON ROOMS WITH CO2 SENSOR.
   - D. WHEN THE DAMPER IS AT ITS MINIMUM POSITION ON A FURTHER DROP IN TEMPERATURE THE NORMALLY OPEN REHEAT VALVE SHALL MODULATE TO MAINTAIN OCC/UNOC SET POINT, SUBJECT TO A MAXIMUM DISCHARGE AIR TEMPERATURE OF 90° F (ADJ.)
   - E. WHEN THE DISCHARGE AIR TEMPERATURE HAS REACHED 90° F (ADJ.), ON A FURTHER DROP IN TEMPERATURE THE NORMALLY OPEN RADIATION VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE
   - F. WHEN THE RADIATION VALVE IS FULLY OPEN ON A FURTHER DECREASE IN TEMPERATURE THE REHEAT VALVE SHALL MAINTAIN DISCHARGE AIR TEMPERATURE AND THE MINIMUM BOX AIRFLOW SET POINT SHALL BE RESET HIGHER TO MAINTAIN SPACE TEMPERATURE
2. ALARMS
   - A. HIGH SPACE TEMPERATURE (10 MINUTE DELAY)
   - B. LOW SPACE TEMPERATURE (10 MINUTE DELAY)
   - C. HIGH SPACE CARBON DIOXIDE LEVEL (10 MINUTE DELAY)
   - D. LOW AIR FLOW
3. GRAPHICS
   - A. ALARM CONDITION
   - B. OCCUPIED/UNOCCUPIED MODE
   - C. SPACE TEMPERATURE
   - D. REHEAT VALVE COMMAND PERCENTAGE
   - E. RADIATION HEATING VALVE COMMAND PERCENTAGE
   - F. DAMPER COMMAND PERCENTAGE
   - G. DISCHARGE AIR TEMPERATURE
   - H. SPACE CARBON DIOXIDE LEVEL
   - I. ROOM OCCUPANCY SENSOR
   - J. SUPPLY AIR FLOW

5 VAV BOX WITH REHEAT COIL & BASEBOARD RADITION
NTS



Exhaust Fan Control:

Exhaust fan will be controlled by the Denlar system. Fan status will be provided by the BMS.

6 HOOD EXHAUST FAN CONTROL
NTS

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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
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RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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KEY PLAN

DRAWING TITLE
MECHANICAL CONTROLS DIAGRAM

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	NTS
DATE	02/06/2023
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

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ROOFTOP UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	OUTSIDE AIRFLOW		FANS							SOUND POWER LEVEL (db) DISCHARGE/INLET/RADIATED								EFFICIENCY		ELECTRICAL DATA				REMARKS
						SUPPLY						SECONDARY															
				MAX (CFM)	MIN (CFM)	FLOW (CFM)	ESP (in-wg)	TSP (in-wg)	QTY	POWER (hp)	RPM	TYPE	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	EER	IEER	MCA	MOCP	VOLT	PH	
RTU-1	TRANE	TCD360CE0	VERTICAL	10500	1800	10500	1.8	2.5	1	10	724	FC	100	96	97	96	93	89	90	83	11.4	15.5	192 A	225 A	208 V	3	

TAG	D/X COOLING COIL									HEATING GLYCOL COIL								
	CAPACITY (Btu/h)		AIRSIDE								AIRSIDE				WATERSIDE			
	TOTAL	SENSIBLE	FLOW (CFM)	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)	FV (FPM)	ROWS	CAPACITY (Btu/h)	FLOW (CFM)	EAT(db) (°F)	LAT(db) (°F)	PD (in-wg)	FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)
RTU-1	329,940	254,570	10,500	78	64	55	53	350	5	228,900	10,500	45	65	0.29	16.4	150	120	5.19

NOTES:
PROVIDE THE FOLLOWING FACTORY INSTALLED OPTIONS
1. BACNET INTERFACE CARD TO CONNECT TO BUILDING BMS SYSTEM.
2. NON FUSED DISCONNECT FOR SINGLE POINT POWER CONNECTION.
3. MERV 13 FILTRATION.
4. PROVIDE VIBRATION ISOLATION CURB
5. PREMIUM EFFICIENCY FAN MOTORS WITH VFD.
6. CABINET SHALL BE DOUBLE WALL.
7. STAINLESS STEEL DRAIN PAN.
8. 0-100% ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL.
9. HINGED ACCESS PANELS AND CONVENIENCE OUTLET.
10. BYPASS CONTROL IN EVENT OF DRIVE FAILURE.
11. FIVE STAGES OF COOLING WITH ABILITY TO BE AT OR BELOW 25% COMPRESSOR DISPLACEMENT AT STAGE ONE.
12. MODULATING 100% EXHAUST FAN WITH DIFFERENTIAL PRESSURE CONTROL SYSTEM.
13. 500 AMP STANDARD SHORT CIRCUIT CURRENT RATING.

GAS-FIRED BOILER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	GAS BURNER			FUEL			WATERSIDE					AFUE (%)	INLET DIAMETER	FLUE DIAMETER	ELECTRICAL DATA			REMARKS
				INPUT (BTUH)	OUTPUT (BTUH)	TURN DOWN RATIO	TYPE	PIPE PRESSURE (in-wg) MIN	PIPE PRESSURE (in-wg) MAX	FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)	VOL (gal)				FLA	VOLT	PH	
B-1	LOCHINVAR	WHB199N	WALL	199,999	185,000	10:1	NATURAL GAS	4	14	11	120	150	0.38	5	95	3"	3"	4.2 A	120 V	1	
B-2	LOCHINVAR	WHB199N	WALL	199,999	185,000	10:1	NATURAL GAS	4	14	11	120	150	0.38	5	95	3"	3"	4.2 A	120 V	1	

NOTES:
PROVIDE THE FOLLOWING FACTORY INSTALLED OPTIONS:
1. BACNET INTERFACE CARD TO CONNECT TO BUILDING BMS SYSTEM.
2. CASCADING SEQUNCER WITH BUILT IN REDUNDENCY.
3. CONDENSATE NEUTRALIZATION KIT.
4. CONSTANT SPEED BOILER CIRCULATOR.

ELBOW SOUND ATTENUATOR SCHEDULE

TAG	MFR	MODEL	DUCT WIDTH (IN.)	DUCT HEIGHT (IN.)	LENGTH (IN.)	AIRFLOW	VELOCITY (FPM)	MAX DP (IN. WG)	MINIMUM DYNAMIC INSERTION LOSS, DB								NOTES
									OCTAVE BAND CENTER FREQUENCY, HZ								
									63	125	250	500	1000	2000	4000	8000	
SA-1	IAC-ACOUSTICS	7ELBM-LFM	20	71	84	10,500	1643	.22	15	16	32	47	43	27	21	19	1,2,3,4,5
SA-2	IAC-ACOUSTICS	7ELBM-LFM	20	76	84	10,500	1350	.17	15	16	32	47	43	27	21	19	1,2,3,4,5

NOTES:
1. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVELS, INCLUDING AIRBORNE AND BREAKOUT NOISE, MEET THE REQUIRED CRITERIA.
2. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED PRESSURE DROP CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT INSTALLED PRESSURE DROP WITH SYSTEM EFFECTS DOES NOT EXCEED SCHEDULED VALUES.
3. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES.
4. SILENCER SHALL HAVE 14 GA. HIGH TRANSMISSION LOSS (HTL) CASING

GRILLES, DIFFUSERS AND REGISTERS SCHEDULE

(BASED ON TITUS)

SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION. SIZE AND CFM INDICATED ON MECHANICAL DRAWINGS

A - MODEL TDC DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH. PROVIDE MODEL SR ADAPTER.

A1 - MODEL TDC DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), SURFACE MOUNT FRAME, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

B - MODEL 350RL RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH.

B1 - MODEL 350RL RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT BORDER, STEEL CONSTRUCTION, WHITE FINISH.

C - MODEL 300 RL LOUVERED SUPPLY REGISTER, DOUBLE DEFLECTION CORE, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT FRAME, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

D - TITUS LINEAR JET SLOT DIFFUSER, 3" SLOT WIDTH, 2 SLOT, SURFACE MOUNT FRAME, ALUMINUM CONSTRUCTION, BLACK PATTERN CONTROLLERS. PROVIDE INSULATED PLENUM FOR CEILING MOUNTED DIFFUSERS.

E - TITUS MODEL CT-580 LINEAR BAR GRILLE WITH 1/8" BARS, 1/2" SPACING AND 15 DEGREE DEFLECTION. 6" WIDTH, ALUMINUM FINISH

CEILING SUPPLY DIFFUSER TYPE A & A1		CEILING RETURN/EXHAUST DIFFUSER TYPE B & B1		FLEXIBLE DUCT SIZE	
CFM	NECK SIZE	CFM	NECK SIZE	CFM	NECK SIZE
0 - 100	6 X 6	0 - 100	6 X 6	0 - 35	4"Ø
101 - 225	9 X 9	101 - 150	8 X 8	36 - 70	5"Ø
226 - 400	12 X 12	151 - 250	10 X 10	71 - 95	6"Ø
401 - 625	15 X 15	251 - 350	12 X 12	96 - 150	8"Ø
626 - 900	18 X 18	351 - 500	14 X 14	151 - 225	9"Ø
		501 - 650	16 X 16	226 - 275	10"Ø
		651 - 800	18 X 18	276 - 400	12"Ø
		801 - 1200	22 X 22	401 - 500	14Ø
				501 - 700	16"Ø
				701 - 900	18"Ø
				901 - 1100	20"Ø
				1101 - 1300	22"Ø

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	PRIMARY AIRFLOW		HEATING COIL								REMARKS
			MAX (CFM)	MIN (CFM)	CAPACITY (Btu/h)	AIRSIDE					WATERSIDE		
						FLOW (CFM)	EAT(db) (°F)	LAT(db) (°F)	PD (in-wg)	ROWS	FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)	
VAV-1	TITUS	DESV-14	2000	600	52840.3	1400	55.0	90.0	0.45	3	4.50	150.0	123.0	0.99	
VAV-2	TITUS	DESV-16	3100	930	83034.7	2200	55.0	90.0	0.66	3	8.50	150.0	129.0	1.27	
VAV-3	TITUS	DESV-8	720	220	18871.5	500	55.0	90.0	0.32	2	5.20	150.0	142.0	3.50	
VAV-4	TITUS	DESV-9	1000	300	26420.1	700	55.0	90.0	0.29	2	6.40	150.0	141.0	2.80	
VAV-5	TITUS	DESV-5	240	75	6038.9	160	55.0	90.0	0.09	2	1.50	150.0	139.0	0.48	
VAV-6	TITUS	DESV-12	1580	475	43781.9	1160	55.0	90.0	0.63	3	4.20	150.0	127.0	1.46	
VAV-7	TITUS	DESV-12	1175	355	39630.2	1050	55.0	90.0	0.53	3	3.60	150.0	126.0	1.16	
VAV-8	TITUS	DESV-9	940	285	24910.4	660	55.0	90.0	0.23	2	1.97	150.0	139.0	1.97	

NOTES:
1. PROVIDE BACNET INTERFACE CARD TO INTEGRATE WITH BUILDING BMS SYSTEM.

FAN SCHEDULE

TAG	MANUFACTURER	MODEL	SERVES	TYPE	FAN					SONES	ELECTRICAL DATA		REMARKS
					FLOW (CFM)	ESP (in-wg)	RPM	DRIVE TYPE	MOTOR POWER HP		VOLT	PH	
EF-1	COOK	ACED-EC	TOILET ROOMS	DOWNBLAST	260	0.5	1454	DIRECT	0.2	5.4	120 V	1	
EF-2	COOK	ACED-EC	TOILET ROOMS	DOWNBLAST	210	0.5	1454	DIRECT	0.2	5.4	120 V	1	

NOTES:
1. PROVIDE BACNET INTERFACE CARD TO CONNECT TO BUILDING BMS SYSTEM.
2. PROVIDE GRAVITY BACKDRAFT DAMPER

FIN TUBE RADIATION SCHEDULE

TAG	MANUFACTURER	ENCLOSURE MODEL	ELEMENT	ROWS OF ELEMENT	ENCLOSURE HEIGHT (IN.)	MOUNTING HEIGHT (IN.)	EWT (°F)	LWT (°F)	BTUH/LF	REMARKS
FT-1	RITTLING	SBG5	COPPER	1	14"	18"	150	130	500	

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	PUMP				MOTOR			ELECTRICAL DATA		REMARKS
				TYPE	FLOW (GPM) DESIGN	FLOW (GPM) MIN	HEAD (FT)	DRIVE TYPE	QTY	POWER HP	POWER RPM	VOLT	PH	
BP-1	B&G	XL 20-35	INLINE	ECM	15	0	1.0	DIRECT	1	0	0	120 V	1	1,2
BP-2	B&G	XL 20-35	INLINE	ECM	15	0	1.0	DIRECT	1	0	0	120 V	1	1,2
HGP-1	B&G	XL 65-130	INLINE	ECM	51	0	40.0	DIRECT	1	1	2886	208 V	1	1
HGP-2	B&G	XL 65-130	INLINE	ECM	51	0	40.0	DIRECT	1	1	2886	208 V	1	1

NOTES:
1. PROVIDE BACNET INTERFACE CARD TO INTEGRATE WITH BUILDING BMS SYSTEM.
2. PROVIDE FACTORY SUPPLIED BOILER CIRCULATOR PUMP.

ELECTRIC CABINET UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING ELEMENTS			EQUIPMENT TYPE	ELECTRICAL DATA			REMARKS
			QTY	POWER Btu/h	POWER kW		FLA	VOLT	PH	
ECUH-1	QMARK	CWH3150F	1	5,115	1.5	WALL MOUNT	12.5 A	120 V	1	
ECUH-2	QMARK	CWH3150F	1	5,115	1.5	WALL MOUNT	12.5 A	120 V	1	

NOTES:
1. PROVIDE INTEGRAL THERMOSTAT

SPLIT SYSTEM FAN COIL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	AIRFLOW		COIL CAPACITY		SOUND PRESS LEVEL			ELECTRICAL DATA				REMARKS
				SUPPLY (CFM)	OUTSIDE (CFM)	COOLING (Btu/h)	HEATING (Btu/h)	LOW (dBA)	MID (dBA)	HIGH (dBA)	MCA	MOCP	VOLT	PH	
AC-1	MITSUBISHI	TPKA0A0241KA70A	WALL MOUNT	775	0	24,000	28,000	39	42	45	0 A	0 A	208 V	1	1,2,3,4

NOTES:
1. PROVIDE CONDENSATE OVERFLOW SWITCH FOR LEAK DETECTION.
2. INDOOR UNIT WIRED FROM OUTDOOR UNIT.
3. PROVIDE LOW AMBIENT HEATING KIT.
4. PROVIDE PROCON MELCOBEMS MINI CONTROLLER FOR BMS CONTROL AND INTEGRATION.

SPLIT SYSTEM CONDENSING UNIT/HEAT PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	CAPACITY (Btu/h)	COMPRESSOR			SEER	EER	MCA	MOCP	VOLT	PH	REMARKS
				QTY	# OF CIRCUITS	# OF STAGES							
CU-1	MITSUBISHI	TRUZH0241HA10NA	24,000	1	1	1	19.5	12.6	18 A	20 A	208 V	1	1

NOTES:
1. PROVIDE LEVELING PAD AND QUICK SLING MOUNT

RANGE HOOD SCHEDULE

TAG	MFR	MODEL	CFM	DUCT LENGTH MAXIMUM	AMPS	VOLTS/PH
RH-1	DENLAR	D1030-D-RF-NFPA	326-548	50	5.6	120/1

NOTES:
1. PROVIDE CLOCK BOX FOR LOCKOUT CAPABILITY.
2. PROVIDE ADA COMPLIANT REMOTE SWITCHES.
3. PROVIDE ALARM AND STROBE LIGHT.
4. PROVIDE ROOF FAN BY DENLAR

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ELECTRICAL SYMBOL LIST

NOTE: ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.

SYMBOL	DESCRIPTION
	PENDANT MOUNTED LIGHT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE
	CEILING MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	RECESSED DOWN LIGHT FIXTURE
	RECESSED 2'X4' LIGHT FIXTURE
	RECESSED 2'X2' LIGHT FIXTURE
	WALL MOUNTED FIXTURE
	LINEAR FIXTURE
	SINGLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT
	DOUBLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT
	EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS
	EMERGENCY REMOTE, WEATHERPROOF, WITH DOUBLE DIRECTIONAL HEADS
$	SINGLE POLE TOGGLE SWITCH
$3	THREE WAY TOGGLE SWITCH
$4	FOUR WAY TOGGLE SWITCH
$K	SINGLE POLE KEYED TOGGLE SWITCH
$3K	THREE WAY KEYED TOGGLE SWITCH MOUNT
$T	THERMAL OVERLOAD SWITCH - MOUNT AT FRACTIONAL HP MOTORS
$D	DIMMER SWITCH
$PR	PROJECTION SCREEN SWITCH
$OC	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
$ADA	DOOR OPENER PUSH BUTTON SWITCH FOR ADA ACCESS.
B	DOORBELL BUZZER/CHIME - MOUNT 7'-0" A.F.F.
OS OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
PC	PHOTOCELL
E/G	EMERGENCY ELECTRIC/GAS SHUTOFF PUSHBUTTON OPERATOR
	GROUNDED DUPLEX RECEPTACLE
A	GROUNDED DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER OR BACKSPLASH 42" A.F.F.
C	GROUNDED DUPLEX RECEPTACLE - MOUNT AT CEILING
GFI	GROUNDED DUPLEX GFI RECEPTACLE
WP	GROUNDED DUPLEX GFI RECEPTACLE "WEATHERPROOF WHILE IN-USE" COVER
S	GROUNDED DUPLEX RECEPTACLE - STUB UP TO 24" A.F.F. ON 1" (MIN) RGS CONDUIT
PM	VERTICAL PLUGMOLD WITH OUTLETS AT 12" O.C. - 5' LONG
MW	GROUNDED GFI DUPLEX RECEPTACLE DEDICATED FOR MICROWAVE OVEN - VERIFY EXACT MOUNTING LOCATION
	GROUNDED DOUBLE DUPLEX RECEPTACLE
	GROUNDED 240V RECEPTACLE
USB	GROUNDED GFI DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORT
	GROUNDED SIMPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE - MATCH NEMA CONFIGURATION OF EQUIPMENT SERVED
	FLOOR MOUNTED DEVICES AS LISTED ABOVE
	RECESSED MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
PP	COMBINATION POWER/TEL/DATA POLE
	TELEPHONE/DATA OUTLETS
WAP	WIRELESS ACCESS POINT (WAP - WIRELESS ACCESS POINT) INCLUDE CAT 5e CABLE
F	MANUAL FIRE ALARM PULL STATION - MOUNT AT 48" A.F.F.
H	HEAT DETECTOR
H 200°	HEAT DETECTOR 200°
S	AREA SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
S CO	AREA COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR
S E	ELEVATOR RETURN SMOKE DETECTOR
CO	FIRE ALARM CARBON MONOXIDE DETECTOR
RTS	FIRE ALARM REMOTE TEST SWITCH
M	MAGNETIC DOOR HOLDER
	FIRE ALARM VISUAL ONLY INDICATING UNIT - MOUNT AT 6'-6" A.F.F.
	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - MOUNT AT 6'-6" A.F.F.
R	LIGHTING CONTROL RELAY
AOM	FIRE ALARM ADDRESSABLE OUTPUT MODULE
AIM	FIRE ALARM ADDRESSABLE INPUT MODULE
$VC	SPEAKER VOLUME CONTROL
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
HGMP	HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26
	EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F.
$A	EMERGENCY "CALL-FOR-AID" SWITCH - MOUNT 48" A.F.F. WITH PULL CORD TO 6" A.F.F.

SYMBOL	DESCRIPTION
M/S	EMERGENCY SWITCH - MOUNT AT 48" A.F.F. - M=MASTER - S=SLAVE
J	JUNCTION BOX
J TC	JUNCTION BOX WITH 120V POWER FOR TEMPERATURE CONTROLS
	JUNCTION BOX FOR CATV OUTLET WITH 1 1/4" CONDUIT TO CEILING
	MOTOR
MD	MOTORIZED DOOR
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION DISCONNECT SWITCH/MAGNETIC MOTOR STARTER
	BRANCH CIRCUIT WIRING
	BRANCH CIRCUIT FEEDER
	ELECTRICAL GROUND
	FLEXIBLE EQUIPMENT CONNECTION
	FIXED/HARD - WIRED EQUIPMENT CONNECTION
TC	TIMECLOCK
C	CONTACTOR
	SECURITY SYSTEM CAMERA
DL	SECURITY SYSTEM DOOR LOCK
	SECURITY SYSTEM MOTION SENSOR
CR	SECURITY SYSTEM CARD READER
DC	SECURITY SYSTEM DOOR CONTACT
KP	SECURITY SYSTEM KEY PAD
FS	FLOW SWITCH
TS	TAMPER SWITCH
PS	PRESSURE SWITCH
	WALL MOUNTED SPEAKER
S	CEILING MOUNTED SPEAKER
IC	INTERCOM STATION
	COMBINATION SPEAKER/CLOCK
	CLOCK

ELECTRICAL LEGEND NOTES:
1. ALL SYMBOLS MAY NOT BE USED.

ABBREVIATIONS

A	AMPERE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	MAU	MAKE-UP AIR UNIT
AFG	ABOVE FINISHED GRADE	NL	NIGHT LIGHT
AFI	ARC FAULT CIRCUIT INTERRUPTER	NLE	NEW LOCATION OF EXISTING
AHU	AIR HANDLING UNIT	OHD	OVERHEAD DOOR ELECTRIC OPERATOR
C	CONDUIT	P	POLE
CB	CIRCUIT BREAKER	PE	PRIMARY ELECTRIC SERVICE
CKT	CIRCUIT	PH or Ø	PHASE
CUH	CABINET UNIT HEATER	PNL	PANEL
DAC	DOOR ACCESS CONTROLLER	PVC	POLYVINYL CHLORIDE CONDUIT
EBB	ELECTRIC BASEBOARD	RAP	REMOTE ANNUNCIATOR PANEL
EBU	EMERGENCY BATTERY UNIT	RGS	RIGID GALVANIZED STEEL CONDUIT
EF	EXHAUST FAN	RLE	RELOCATE EXISTING
EM	EMERGENCY POWERED	RTU	ROOFTOP UNIT
EMT	ELECTRICAL METALLIC TUBING	SE	SECONDARY ELECTRIC SERVICE
ETR	EXISTING TO REMAIN	T	TELEPHONE SERVICE
EWC	ELECTRIC WATER COOLER	TV	TELEVISION
EWH	ELECTRIC WATER HEATER	TX	TRANSFORMER
FA	FIRE ALARM	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	W	WIRE
FMC	FLEXIBLE METALLIC TUBING	WAP	WIRELESS ACCESS POINT
GFI	GROUND FAULT INTERRUPTER	WP	WEATHER PROOF
IG	ISOLATED GROUND		
JB	JUNCTION BOX		
KVA	KILOVOLT-AMP		

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED ELECTRICAL SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND CONDUITS INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY CONDUITS, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL CONDUITS AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, BELOW PIPING OR THROUGH MECHANICAL ROOMS, THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF MECHANICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. ALL HOMERUNS SHALL BE 2#12, 1#12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN PANEL DESIGNATED UNLESS OTHERWISE NOTED.
11. ALL 120 VAC (277 VAC) CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE INCREASED TO 2#10, 1#10G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.
12. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. USE OF COMMON NEUTRALS WILL NOT BE ALLOWED.
13. FIELD VERIFY WITH MANUFACTURER'S PROVIDED EXACT ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS OF ALL OPERATIONAL EQUIPMENT PRIOR TO MAKING ELECTRICAL POWER CONNECTION. FURNISH AND INSTALL SAFETY DISCONNECT AS REQUIRED BY NEC.
14. RECEPTACLES LOCATED WITHIN 6' OF A WATER SOURCE, OR OUTSIDE, AND WHERE REQUIRED BY CODE SHALL BE PROVIDED WITH GFCI PROTECTION, WHETHER INDICATED OR NOT.
15. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH "CAST ALUMINUM" LOCKABLE COVERS RATED "WEATHER-PROOF WHILE IN USE". LOCKS SHALL BE KEYED ALIKE.
16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SLEEVES AND FIRE STOP FOR CONDUITS AND CABLES PENETRATING FIRE RATED WALLS AND FLOORS.
17. ELECTRICAL CONTRACTOR SHALL SEAL ALL CONDUITS PENETRATING EXTERIOR WALLS.
18. ALL WIRING SHALL BE IN CONDUIT, UNLESS OTHERWISE INDICATED. CONDUITS SHALL BE RUN CONCEALED IN NEW AND ABOVE CEILINGS.
19. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF EQUIPMENT WITH DIV. 21, 22 AND 23 PRIOR TO ROUGHING OR INSTALLING OUTLETS.
20. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, ALL LOCATIONS OF EQUIPMENT BEING FURNISHED BY THE OWNER PRIOR TO ROUGHING OR INSTALLING OUTLETS.
21. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF DEVICES PRIOR TO ROUGHING OR INSTALLATION OF OUTLETS.
22. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF DUCT SMOKE DETECTORS WITH DIV. 23. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY DIV. 23.
23. ALL FIRE ALARM DEVICES LOCATED ON BUILDING EXTERIOR SHALL BE WEATHERPROOF RATED.
24. CONDUITS AND/OR WIRING SHALL NOT PENETRATE STAIR ENCLOSURES UNLESS SPECIFICALLY SERVING EQUIPMENT OR DEVICES LOCATED WITHIN STAIR ENCLOSURE.
25. WHERE INDICATED, PROVIDE FIXTURES WITH EMERGENCY BATTERY TO OPERATE LAMPS FOR 1 1/2 HOURS UPON LOSS OF NORMAL POWER. WIRE EMERGENCY BATTERY AND EXIT LIGHTS TO LINE SIDE OF AREA LIGHTING CIRCUIT.
26. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. PROVIDE DIRECTIONAL CHEVRONS AS INDICATED ON PLAN.
27. BRANCH CIRCUIT WIRING IS SHOWN ON THE FLOOR PLANS. NUMERALS ADJACENT TO THE HOMERUN SYMBOLS FOR LIGHTING, RECEPTACLES, MOTORS, APPLIANCES, ETC. INDICATE THE CIRCUIT NUMBER TO WHICH THE ITEMS ARE TO BE CONNECTED. PROVIDE BRANCH CIRCUIT WIRING FOR ALL ITEMS SHOWN IN ACCORDANCE WITH THESE GENERAL NOTES AND THE ELECTRICAL SPECIFICATIONS.
28. ALL 1 POLE, 15 AND 20 AMPERE BRANCH CIRCUITS SERVING RECEPTACLE OR LIGHTING SHALL BE 2 WIRE CIRCUITS PROVIDING AN INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH UNGROUNDED (HOT) CIRCUIT CONDUCTOR. DO NOT SHARE NEUTRAL CONDUCTORS.
29. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES.
30. ALL EXPOSED CABLES OF ANY TYPE IN PLENUM CEILING SPACE SHALL BE PLENUM RATED.
31. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK. SUSPENDED FROM SLAB, STEEL, WALL OR TRUSSWORK.
32. ALL PENETRATIONS OF FLOORS AND WALLS (WHETHER OR NOT FIRE RESISTANCE RATED) SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH - PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM.
33. IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.
34. SEE SPECIFICATION SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXES, ETC.
35. CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES.
36. PROVIDE ALL BONDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
37. ALL REQUIRED BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESSARY FITTINGS, JUNCTION BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION.
38. ALL BONDING/GROUNDING CONNECTIONS SHALL BE MADE BY LISTED CLAMP OR CONNECTORS AS REQUIRED BY ARTICLE 250 OF NFPA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION).
39. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.

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TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
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RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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PROJECT
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KEY PLAN

DRAWING TITLE
ELECTRICAL GENERAL INFORMATION

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
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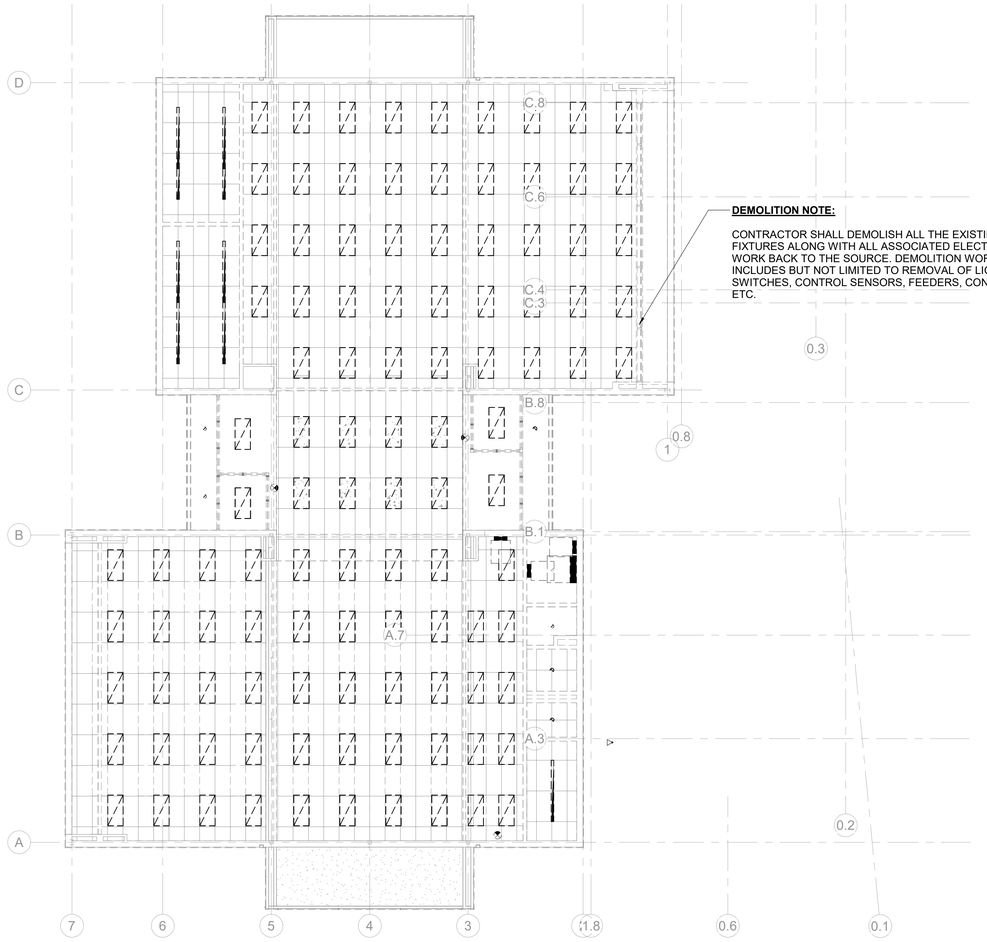
ELECTRICAL DEMOLITION NOTES

1. BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS AND CONNECTIONS, MECHANICAL AND ELECTRICAL DISRUPTIONS EFFECTING OTHER TRADES. INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY.
3. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
4. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
5. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE SYSTEM.
6. THE LOCATION OF EXISTING ELECTRICAL SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PANELS, CONDUITS, LIGHTING, ETC. TO BE REMOVED AND ADJUST AS NECESSARY.
7. ALL EQUIPMENT, AND ASSOCIATED WIRING, CONDUITS INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS. NO EQUIPMENT, WIRING OR CONDUITS SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
8. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY WIRING OR CONDUIT WHICH MUST REMAIN ACTIVE, IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
9. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE PERMITTED.
10. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
11. THE CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK.



1 LIGHTING PLAN-DEMOLITION
1/8" = 1'-0"

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F: (860) 436-4450
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PROJECT

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KEY PLAN

DRAWING TITLE
LIGHTING PLAN - DEMOLITION

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
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ELECTRICAL DEMOLITION NOTES

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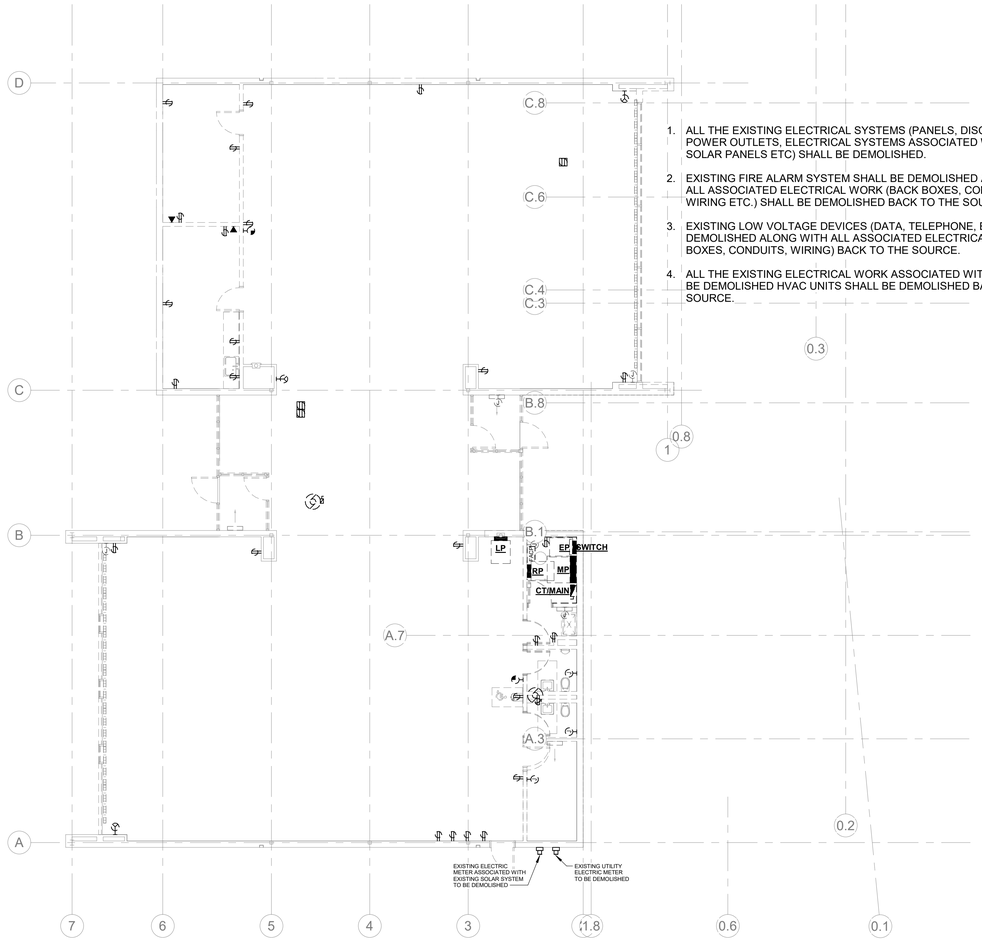
2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS AND CONNECTIONS, MECHANICAL AND ELECTRICAL DISRUPTIONS EFFECTING OTHER TRADES. INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY.
3. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
4. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
5. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE SYSTEM.
6. THE LOCATION OF EXISTING ELECTRICAL SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PANELS, CONDUITS, LIGHTING, ETC. TO BE REMOVED AND ADJUST AS NECESSARY.
7. ALL EQUIPMENT, AND ASSOCIATED WIRING, CONDUITS INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS. NO EQUIPMENT, WIRING OR CONDUITS SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
8. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY WIRING OR CONDUIT WHICH MUST REMAIN ACTIVE, IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
9. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE PERMITTED.
10. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
11. THE CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK.



1. ALL THE EXISTING ELECTRICAL SYSTEMS (PANELS, DISCONNECTS, POWER OUTLETS, ELECTRICAL SYSTEMS ASSOCIATED WITH ROOF SOLAR PANELS ETC) SHALL BE DEMOLISHED.
2. EXISTING FIRE ALARM SYSTEM SHALL BE DEMOLISHED ALONG WITH ALL ASSOCIATED ELECTRICAL WORK (BACK BOXES, CONDUITS, WIRING ETC.) SHALL BE DEMOLISHED BACK TO THE SOURCE.
3. EXISTING LOW VOLTAGE DEVICES (DATA, TELEPHONE, ETC) SHALL BE DEMOLISHED ALONG WITH ALL ASSOCIATED ELECTRICAL WORK (BACK BOXES, CONDUITS, WIRING) BACK TO THE SOURCE.
4. ALL THE EXISTING ELECTRICAL WORK ASSOCIATED WITH EXISTING TO BE DEMOLISHED HVAC UNITS SHALL BE DEMOLISHED BACK TO THE SOURCE.

1 POWER PLAN-DEMOLITION
1/8" = 1'-0"

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PROJECT
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KEY PLAN

DRAWING TITLE
POWER PLAN - DEMOLITION

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
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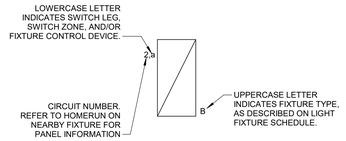
LIGHTING FIXTURE NOTES

1. TYPE 'EM' EMERGENCY FIXTURES AND TYPE 'X' EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF AREA LIGHTING CIRCUIT TO SENSE LOSS OF NORMAL POWER AND PROVIDE CONTINUOUS TRICKLE CHARGE, AND SHALL OPERATE AT A MINIMUM OF 1 1/2 HOURS UPON LOSS OF NORMAL POWER. SEE SCHEDULE.
2. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. SEE DETAIL BELOW.

EXIT SIGN DIRECTIONAL INDICATOR

3. ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 4000°K..
4. PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. No. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.
5. IN ADDITION TO THE REQUIREMENTS OF THE IBC AND THE NEC, ALL RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH SUPPORT WIRES AT A MINIMUM OF FOUR (4) PER FIXTURE AND LOCATED NOT MORE THAN SIX (6") INCHES FROM EACH CORNER, EXTENDED AND ATTACHED TO THE BUILDING STRUCTURE. HANGER WIRES SHALL BE GALVANIZED CARBON STEEL, ASTM A641, SOFT TEMPER, PRE-STRETCHED WITH A YIELD STRESS LOAD OF AT LEAST THREE (3) TIMES DESIGN LOAD BUT NOT LESS THAN 12 GAUGE (0.106"). FOR ROUND FIXTURES OR FIXTURES SMALLER THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR (4) WIRES PER FIXTURE AND LOCATE AT EACH CORNER OF THE CEILING GRID IN WHICH THE FIXTURE IS TO BE LOCATED. ADDITIONALLY, WHERE FIXTURES OF SIZES LESS THAN THE CEILING GRID ARE INDICATED TO BE CENTERED IN THE ACOUSTICAL PANEL, SUCH FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF TWO (2) 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TEES.
6. VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
7. VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
8. REFER TO DETAILS FOR LIGHT FIXTURE CONTROLS, AND SEQUENCE OF OPERATION.
9. ALL LIGHT FIXTURES SHALL BE AS SPECIFIED. ANY ALTERNATES OR SUBSTITUTIONS REQUIRE PRIOR WRITTEN APPROVAL FROM ARCHITECT PRIOR TO ISSUING SUBMITTALS. SUBMITTALS FOR ALTERNATES OR SUBSTITUTIONS SHALL BE REJECTED WITHOUT REVIEW IF SUBMITTED WITHOUT APPROVAL FROM ARCHITECT.
10. CONTRACTOR SHALL PROVIDE APPROPRIATE DIMMING DRIVERS TO ALL DECORATIVE LIGHT FIXTURES TO MAKE THEM WORK AS INTENDED.
11. CONTRACTOR TO COORDINATE WITH OWNER & SHALL PROVIDE EXTERIOR LIGHTS & SIGNAGE CONTROL (PHOTOCELL/TIMECLOCK) AS REQUIRED

LIGHT FIXTURE LABELLING DETAIL



NOTES:

1. UNSWITCHED LIGHTING BRANCH CIRCUIT WIRING WILL ONLY BE SHOWN TO A SINGLE FIXTURE FOR EACH CIRCUIT. PROVIDE REQUIRED CONDUCTORS IN 3/4" CONDUIT FOR SWITCHED WIRING TO ALL COMMON CONTROL FIXTURES.
2. PROVIDE ALL LOW VOLTAGE CONTROL WIRING AS REQUIRED FOR PROPER OPERATION OF ALL FIXTURES FROM ASSOCIATED CONTROLS (INCLUDES DIMMERS, OCCUPANCY SENSORS, SCENE CONTROL SWITCHES, ETC.).
3. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES, WHERE APPLICABLE, FOR ADDITIONAL CONTROL INFORMATION.
4. FIXTURES WITHOUT SWITCH LEG OR OTHER CONTROL SCHEME DESIGNATION SHALL BE CONTROLLED BY THE CONTROL DEVICES WITHIN THE SAME ROOM OR AREA. (THIS INCLUDES ANY COMBINATION OF 3-WAY AND 4-WAY SWITCHES, SENSORS, SCENE CONTROLLERS, OR OTHER CONTROL DEVICES.)
5. REFER TO LIGHTING DETAILS FOR ADDITIONAL CONTROL REQUIREMENTS.

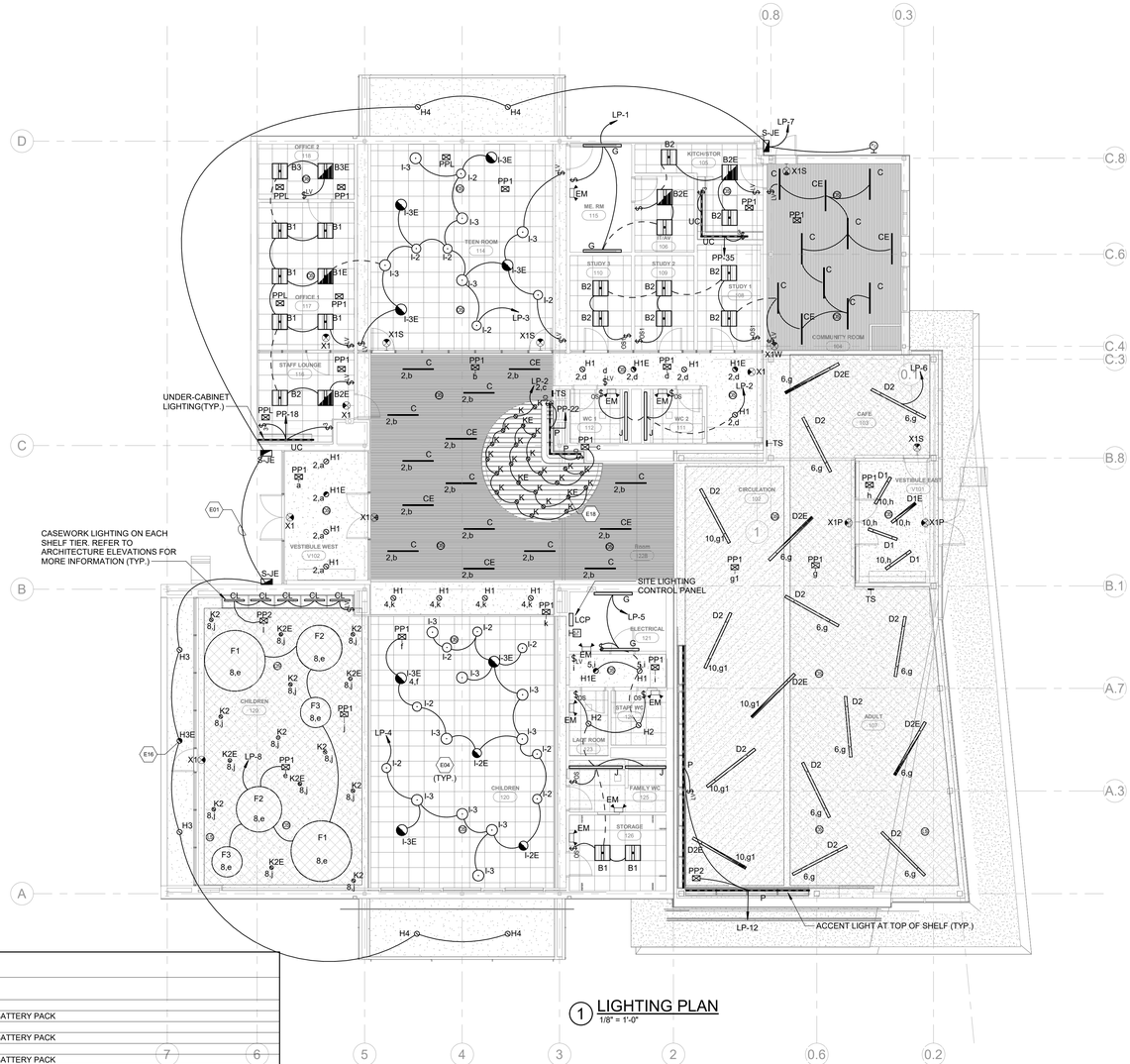
ELECTRICAL KEYNOTES

E01 REFER TO EXTERIOR LIGHTING CONTROL DETAIL ON SHEET #E4.01 FOR SITE & BUILDING MOUNTED EXTERIOR LIGHTS.

E04 LIGHTING CONTROLS BASIS OF DESIGN: CRESTRON ZUMLINK NETWORKED LIGHTING CONTROLS. REFER TO LIGHTING CONTROL RISERS ON SHEETS #XX FOR MORE INFORMATION. NOT ALL DEVICES WERE SHOWN ON THE LIGHTING PLANS. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED FROM SYSTEM PROVIDER FOR CONTROLS TO WORK AS INTENDED.

E16 CONTRACTOR SHALL WIRE THE FOLLOWING LIGHT FIXTURE TYPE #H3E-OUTDOOR DOWNLIGHT VIA 25VA MINI-INVERTERS LOCATED IN ELECTRICAL ROOM.

E18 CONTRACTOR SHALL WIRE THE FOLLOWING LIGHT FIXTURE TYPES #KE-SPOT LIGHT @ SERVICE DESK VIA 25VA MINI-INVERTERS LOCATED IN ELECTRICAL ROOM.



1 LIGHTING PLAN
1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE

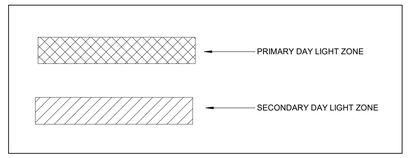
TYPE	MANUFACTURER	MODEL	LAMPS			VOLTAGE	DIMMING TYPE	CCT	CRI	REMARKS
			LUMENS	WATTAGE	LUMENS/WATT					
B1	DAYBRITE	2FGXG30L835-2-RS-UNV-DIM-XX	3000 lm	22 W	136 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER.
B1E	DAYBRITE	2FGXG30L835-2-RS-UNV-DIM-BSL10LST-XX	3000 lm	22 W	136 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER WITH INTEGRAL SELF TESTING EMERGENCY BATTERY PACK
B2	DAYBRITE	2FGXG38L835-2-RS-UNV-DIM-XX	3800 lm	32 W	120 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER
B2E	DAYBRITE	2FGXG38L835-2-RS-UNV-DIM-BSL10LST-XX	3800 lm	32 W	120 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER WITH INTEGRAL SELF TESTING EMERGENCY BATTERY PACK
B3	DAYBRITE	2FGXG45L835-2-RS-UNV-DIM	4500 lm	34 W	132 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER
B3E	DAYBRITE	2FGXG45L835-2-RS-UNV-DIM-BSL10LST-XX	4500 lm	34 W	132 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER WITH INTEGRAL SELF TESTING EMERGENCY BATTERY PACK
C	SELUX	L36-1C35-935-LW-C-04-XX-DIM-XX	3300 lm	35 W	94 lm/W	120 V	0-10V	3500K	80	RECESSED LINEAR SLOT. 3300LM/FT; 8.7WATTS/FT.
CE	SELUX	L36-1C35-935-LW-C-04-XX-DIM-EM-XX	3300 lm	35 W	94 lm/W	120 V	0-10V	3500K	80	RECESSED LINEAR SLOT. 3300LM/FT; 8.7WATTS/FT.WITH INTEGRAL EMERGENCY BATTERY PACKS
CL	Q-TRAN	ARKA--XX-SST-DF-XX/SW24/5.0-DRY-35-XX/QZ-XX-UNV-24V-PH/010-XX	468 lm	5 W	94 lm/W	120 V	ELV	3500K	80	SHELF LIGHTING. 468 LUMENS/FT & 5WATTS/FT. COORDINATE WITH ARCHITECT FOR MORE INFORMATION. REFER TO PLANS FOR LENGTHS & COORDINATE WITH ARCHITECT FOR MORE INFORMATION. INCLUDE EXTRUSIONS, POWER SUPPLIES AND OTHER ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
D1	DAYOLITE	ADL-R04-DI-WRA-35-SO-4-PD-XX-DIM10-XX	6720 lm	56 W	120 lm/W	120 V	0-10V	3500K	80	4 FEET 4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES.1000LUMENS/FT-INDIRECT LIGHTING. 950LUMENS/FT DIRECT LIGHTING. 18WATTS/FT.
D1E	DAYOLITE	ADL-R04-DI-WRA-35-SO-4-PD-XX-DIM10-EPC 10-XX	6720 lm	56 W	120 lm/W	120 V	0-10V	3500K	80	4 FEET 4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES.WITH INTEGRAL EMERGENCY BATTERY PACK.1000LUMENS/FT-INDIRECT LIGHTING. 950LUMENS/FT DIRECT LIGHTING. 18WATTS/FT.
D2	DAYOLITE	ADL-R04-DI-WRA-35-SO-8-PD-XX-DIM10-XX	13440 lm	112 W	120 lm/W	120 V	0-10V	3500K	80	8 FEET 4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES.1000LUMENS/FT-INDIRECT LIGHTING. 950LUMENS/FT DIRECT LIGHTING. 18WATTS/FT.
D2E	DAYOLITE	ADL-R04-DI-WRA-35-SO-8-PD-XX-DIM10-EPC 10-XX	13440 lm	112 W	120 lm/W	120 V	0-10V	3500K	80	8 FEET 4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES.WITH INTEGRAL EMERGENCY BATTERY PACK,1000LUMENS/FT-INDIRECT LIGHTING. 950LUMENS/FT DIRECT LIGHTING. 18WATTS/FT.
EM	EXITRONIX	NFTHO-W-G2	1100 lm	11 W	100 lm/W	120 V	-	-	-	HIGH PERFORMANCE DUAL HEAD LED EMERGENCY LIGHT FIXTURE WITH INTEGRAL MOUNT BATTERY FOR 90 MINUTE EMERGENCY OPERATION ALONG WITH SELF DIAGNOSTICS OPTION.
F1	PRECISED LED	COBE-24FT-24V-95-35K-XX	19152 lm	150 W	128 lm/W	120 V	0-10V	3500K	95	24 FT COOL BEAM LED TAPE LIGHT MOUNTED IN COVE. 798LM/FT LUMEN OUTPUT & 6.24W/FT POWER OUTPUT. 0-10V DIMMING DRIVER. PROVIDE ALL NECESSARY ACCESSORIES(POWER SUPPLIES, MOUNTING CHANNELS ETC.) FOR COMPLETE INSTALLATION.
F2	PRECISED LED	COBE-17FT-24V-95-35K-XX	13566 lm	106 W	128 lm/W	120 V	0-10V	3500K	95	17 FT COOL BEAM LED TAPE LIGHT MOUNTED IN COVE. 798LM/FT LUMEN OUTPUT & 6.24W/FT POWER OUTPUT. 0-10V DIMMING DRIVER. PROVIDE ALL NECESSARY ACCESSORIES(POWER SUPPLIES, MOUNTING CHANNELS ETC.) FOR COMPLETE INSTALLATION.
F3	PRECISED LED	COBE-11FT-24V-95-35K-XX	8778 lm	69 W	128 lm/W	120 V	0-10V	3500K	95	11 FT COOL BEAM LED TAPE LIGHT MOUNTED IN COVE. 798LM/FT LUMEN OUTPUT & 6.24W/FT POWER OUTPUT. 0-10V DIMMING DRIVER. PROVIDE ALL NECESSARY ACCESSORIES(POWER SUPPLIES, MOUNTING CHANNELS ETC.) FOR COMPLETE INSTALLATION.
G	DAYBRITE	FSS440L835-UNV-DIM-XX	4000 lm	31 W	129 lm/W	120 V	0-10V	3500K	80	4' UTILITY STRIP LIGHT
H1	LIGHTOLIER	4RNI/P4R-DL-15-835-CC-XX-Z10-U-XX	1500 lm	15 W	100 lm/W	120 V	0-10V	3500K	80	4" RECESSED DOWNLIGHT
H1E	LIGHTOLIER	4RN-EM6/P4R-DL-15-835-CC-XX-Z10-U-XX	1500 lm	15 W	100 lm/W	120 V	0-10V	3500K	80	4" RECESSED DOWNLIGHT WITH INTEGRAL EMERGENCY BATTERY PACK
H2	LIGHTOLIER	4RN/P4R-DL-20-835-CC-XX-Z10-U-XX	2000 lm	21 W	95 lm/W	120 V	0-10V	3500K	80	4" RECESSED DOWNLIGHT RATED FOR WET LOCATION USE.
H3	SPECTRUM	SGRTE10FX-20L-30K-DX-XX/AR1023FX-SG-WF-SO-W	1574 lm	14 W	109 lm/W	120 V	0-10V	3000K	80	10" RECESSED DOWNLIGHT RETROFIT KIT RATED FOR OUTDOOR USE. COORDINATE EXACT SIZE OF EXISTING FIXTURES ON SITE AND ORDER RETROFIT KITS AS NEEDED.
H3E	SPECTRUM	SGRTE10FX-20L-30K-DX-EMRM-XX/AR1023FX-SG-WF-SO-W	1574 lm	14 W	109 lm/W	120 V	0-10V	3000K	80	10" RECESSED DOWNLIGHT RETROFIT KIT RATED FOR OUTDOOR USE. WITH REMOTE EMERGENCY BATTERY PACK. COORDINATE EXACT SIZE OF EXISTING FIXTURES ON SITE AND ORDER RETROFIT KITS AS NEEDED.
H4	SPECTRUM	SGRTE10FX-30L-30K-DX-XX/AR1023FX-SG-WF-SO-W	2361 lm	22 W	108 lm/W	120 V	0-10V	3000K	80	10" RECESSED DOWNLIGHT RETROFIT KIT RATED FOR OUTDOOR USE.COORDINATE EXACT SIZE OF EXISTING FIXTURES ON SITE AND ORDER RETROFIT KITS AS NEEDED.
I-2	SPECTRUM	GPRF1600GV-37L-35K-DS10X-RDC5-AT-FINISH	3150 lm	26 W	121 lm/W	120 V	0-10V	3500K	80	16" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED
I-2E	SPECTRUM	GPRF1600GV-37L-35K-DS10X-RDC5-AT-EMEN-FINISH	3150 lm	26 W	121 lm/W	120 V	0-10V	3500K	80	16" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED. WITH REMOTE MOUNTED EMERGENCY BATTERY PACK OPTION
I-3	SPECTRUM	GPRF2000GV-55L-35K-DS10X-RDC5-AT-FINISH	4963 lm	39 W	127 lm/W	120 V	0-10V	3500K	80	20" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED
I-3E	SPECTRUM	GPRF2000GV-55L-CLU-35K-DS10X-RDC5-AT-EMEN-FINISH	4963 lm	39 W	127 lm/W	120 V	0-10V	3500K	80	20" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED. WITH REMOTE MOUNTED EMERGENCY BATTERY PACK OPTION
J	HE WILLIAMS	PX-X-4-2-XX-L7-835-W-LWALL-RWALL-DIM-UNV-XX	5045 lm	51 W	98 lm/W	120 V	0-10V	3500K	80	4" APERTURE RECESSED PERIMETER SLOT WITH 2" REGRESSED LENS. 700 LUMENS/FT LUMEN OUTPUT, 7W/FT POWER OUTPUT, WET LOCATION RATED 0-10V DIMMING DRIVER. PROVIDE ALL NECESSARY ACCESSORIES(POWER SUPPLIES, MOUNTING CHANNELS ETC.) FOR COMPLETE INSTALLATION.
K	SPECTRUM	AS01RDF-NC-IC-935-004-D4-1-B1/DL-SP-MB-MF	328 lm	6 W	52 lm/W	120 V	0-10V	3500K	80	1" ROUND RECESSED DOWNLIGHT UNIVERSAL HOUSING WITH INTERCHANGEABLE WHITE TRIMS.
K2	SPECTRUM	SR3MO-XT13L-DS10x-BH27-RD3F-35K-WD-xx-SO-WF	1300 lm	15 W	87 lm/W	120 V	0-10V	3500K	80	3" ROUND RECESSED DOWNLIGHT UNIVERSAL HOUSING WITH INTERCHANGEABLE TRIMS.
K2E	SPECTRUM	SR3MO-XT13L-DS10x-BH27-EM-RD3F-35K-WD-xx-SO-WF	1300 lm	15 W	87 lm/W	120 V	0-10V	3500K	80	3" ROUND RECESSED DOWNLIGHT UNIVERSAL HOUSING WITH INTERCHANGEABLE TRIMS & WITH INTEGRAL MOUNT BATTERY PACK OPTION
KE	SPECTRUM	AS01RDF-NC-IC-935-004-D4-1-B1/DL-SP-MB-MF	328 lm	6 W	52 lm/W	120 V	0-10V	3500K	80	1" ROUND RECESSED DOWNLIGHT UNIVERSAL HOUSING WITH INTERCHANGEABLE WHITE TRIMS.TIED TO MINI-INVERTER CIRCUIT
P	Q-TRAN	W/DE-XX-SST-DF-XX-XX/SW24/5.0-DRY-35-XX/QZ-XX-UNV-24-PH/010-XX	468 lm	5 W	94 lm/W	120 V	ELV	3500K	80	UNDER SHELF LIGHTING. 468 LUMENS/FT & 5WATTS/FT. COORDINATE WITH ARCHITECT FOR MORE INFORMATION. REFER TO PLANS FOR LENGTHS & COORDINATE WITH ARCHITECT FOR MORE INFORMATION. INCLUDE EXTRUSIONS, POWER SUPPLIES AND OTHER ACCESSORIES REQURIED FOR COMPLETE INSTALLATION.
S-B	GARDCO	PBL-42-14L-200-WW-G2-3-UNV-FINISH	965 lm	11 W	88 lm/W	120 V	0-10V	3000K	70	42" HIGH FULL CUTOFF BOLLARD
S-BE	GARDCO	PBL-42-14L-200-WW-G2-3-UNV-FINISH	965 lm	11 W	88 lm/W	120 V	0-10V	3000K	70	42" HIGH FULL CUTOFF BOLLARD TIE TO INVERTER CIRCUIT.
S-E	SELUX	ACL-R3-S1-5G1800-30-XX-UNV-DM-HS/A-A40-250-14-FINISH-HC1-BC	5346 lm	54 W	99 lm/W	120 V	0-10V	3000K	80	RECTALINEAR POLE MOUNTED FIXTURE MADE OF ALUMINUM, MOUNTED TO 14FT 4" SQUARE ALUMINUM POLE, TYPE 3 OPTIC
S-F	SELUX	ACL-R5S-S1-5G1800-30-XX-UNV-DM/A-A40-250-14-FINISH-HC2-BC	10692 lm	108 W	99 lm/W	120 V	0-10V	3000K	80	TWIN MOUNT RECTILINEAR POLE MOUNTED FIXTURES MADE OF ALUMINUM, MOUNTED TO 14FT 4" SQUARE ALUMINUM POLE, 180 DEGREE, TYPE 5 OPTIC
S-JE	GARDCO	101L-16L-530-BW-G2-3-EBPC-UNV-DO-FINISH	3138 lm	28 W	112 lm/W	120 V	0-10V	3000K	80	EXTERIOR WALL PACK WITH OUTDOOR WEATHER RATED INTEGRAL BATTERY PACK.
UC	HE WILLIAMS	1SF-XX-XX-835-DMA-DIM-UNV	600 lm	6 W	100 lm/W	120 V				UNDER CABINET LIGHTING, 600LUMENS/FT & 6WATTS/FT. REFER TO PLANS FOR EXACT LENGTHS.
X1	EXITRONIX	S902-WB-SR-GM-XX-G2	0 lm	5 W	0 lm/W	120 V	-	-		CEILING MOUNTED EDGE LIT LED EXIT SIGN WITH SINGLE FACE, GREEN LETTERING, NI-CAD BATTERY, SELF DIAGNOSTICS . INSTALL QUANTITY OF FACES AND CHEVRONS AS INDICATED ON PLANS. PROVIDE MOUNTING HARDWARE AS REQUIRED FOR EACH LOCATION
X1P	EXITRONIX	S902-WB-SR-GM-XX-G2-PENDANT KIT ERX-KIT	0 lm	5 W	0 lm/W	120 V	-	-	-	PENDANT MOUNT EDGE LIT LED EXIT SIGN WITH SINGLE FACE, GREEN LETTERING, NI-CAD BATTERY, SELF DIAGNOSTICS . INSTALL QUANTITY OF FACES AND CHEVRONS AS INDICATED ON PLANS. PROVIDE MOUNTING HARDWARE AS REQUIRED FOR EACH LOCATION
X1S	EXITRONIX	S902-WB-SR-GM-XX-G2		5 W		277 V	-	-	-	WALL SURFACE MOUNTED EDGE LIT LED EXIT SIGN WITH SINGLE FACE, GREEN LETTERING, NI-CAD BATTERY, SELF DIAGNOSTICS . INSTALL QUANTITY OF FACES AND CHEVRONS AS INDICATED ON PLANS. PROVIDE MOUNTING HARDWARE AS REQUIRED FOR EACH LOCATION
X1W	EXITRONIX	S902-WB-SR-GM-XX-G2		5 W		277 V	-	-	-	WALL SIDE/END MOUNTED EDGE LIT LED EXIT SIGN WITH SINGLE FACE, GREEN LETTERING, NI-CAD BATTERY, SELF DIAGNOSTICS . INSTALL QUANTITY OF FACES AND CHEVRONS AS INDICATED ON PLANS. PROVIDE MOUNTING HARDWARE AS REQUIRED FOR EACH LOCATION

LIGHTING CONTROL DEVICES GENERAL NOTES

a. PROVIDE CONTROL CABLES (CATSe) AS PER MANUFACTURER'S RECOMMENDATION FOR ALL LIGHTING CONTROL DEVICES (POWER PACK, TOUCH SCREEN,...ETC).
b. PROVIDE POWER PACK AS REQUIRED FOR EACH LIGHTING ZONE
c. PROVIDE ALL LOW VOLTAGE CONTROL WIRING AS REQUIRED FOR PROPER OPERATION OF ALL LIGHTING CONTROL DEVICES, SENSORS...ETC.
d. PROVIDE FACTORY ENGRAVING ON ALL WALL CONTROL CONTROL DEVICES AND BUTTONS.
e. FACTORY COMMISSIONING AND STARTUP SHALL BE PROVIDED FOR ALL SYSTEM COMPONENTS (SENSOR, CONTROLS, TOUCH SCREEN,...ETC) BY MANUFACTURER.
f. TRAINING TO OWNER'S STUFF SHALL BE PROVIDED FOR ALL SYSTEM COMPONENTS (SENSOR, CONTROLS, TOUCH SCREEN,...ETC) BY MANUFACTURER.
g. ACTUAL QUANTITY OF POWER PACKS FOR LIGHTING SWITCHES/SENSORS ARE NOT SHOWN ON PLANS. PROVIDE QUANTITY AND TYPE OF POWER PACKS AS REQUIRED FOR PROPER OPERATION
h. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 30 MINUTES.
i. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 30 MINUTES.
j. REFER TO LIGHTING CONTROL RISER DIAGARM SHEETS FOR MORE INFORMATION.

LIGHTING CONTROL DEVICES LIST

$LV	ROCKER ON/OFF, DIM, ZUMLINK (CRESTRON #ZUMLINK-KP-R)
$OS	LINE VOLTAGE OCCUPANCY DETECTION SWITCH (CRESTRON #GLA-DT-WLS-1)
$OS1	LINE VOLTAGE OCCUPANCY DETECTION SWITCH WITH DIMMING (CRESTRON #GLA-DT-WLS-DM)
OS	DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR, (CRESTRON #ZUMLINK-DT-QUATTRO-DLS-RLY)
LS	DUAL LOOP DAYLIGHT SENSOR (CRESTRON #GLA-LDL-PC-0-10)
PC	EXTERIOR PHOTOCELL (CRESTRON #GLS-LCCT)
PP1	0-10V CONTROLLER, 120/277V, ZUMLINK (CRESTRON #ZUMLINK-JBOX-16A-LV)
PP2	UNIV. PHASE DIMMER & ZUMLINK-CRESNET CONVERTER (CRESTRON #GL-EXP-DIMU-CN & #ZUMLINK-CONV-CN)
PPE	UL924 BYPASS, DIMMING (CRESTRON #GLA-EPC-FLV)
PPL	PLUG LOAD CONTROLLER (CRESTRON #ZUMLINK-JBOX-20A-PLUG)
TS	TOUCH SCREEN FOR LIGHTING CONTROL (CRESTRON #TSW-770)



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TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
LIGHTING PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E1.01

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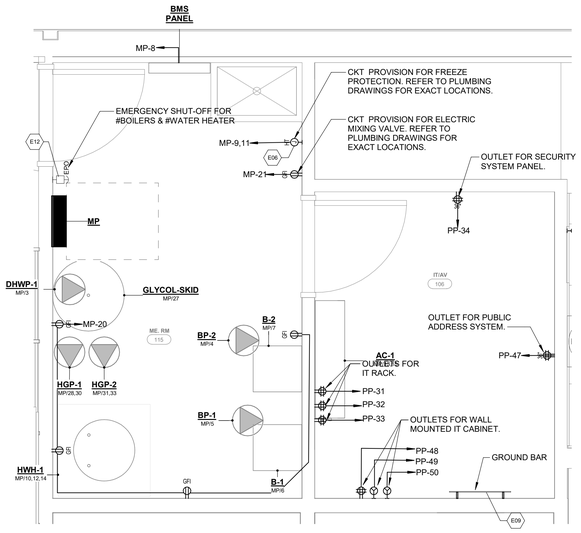
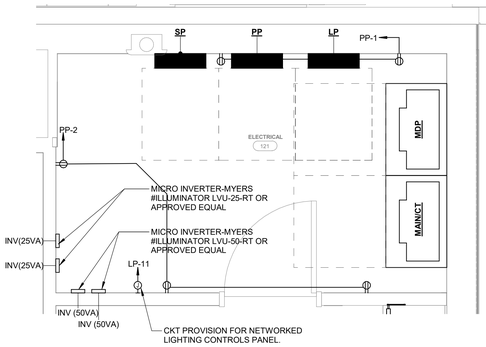


2 ENLARGED MECHANICAL & IT ROOM PLAN
1/2" = 1'-0"



3 ENLARGED ELECTRICAL ROOM PLAN
1/2" = 1'-0"

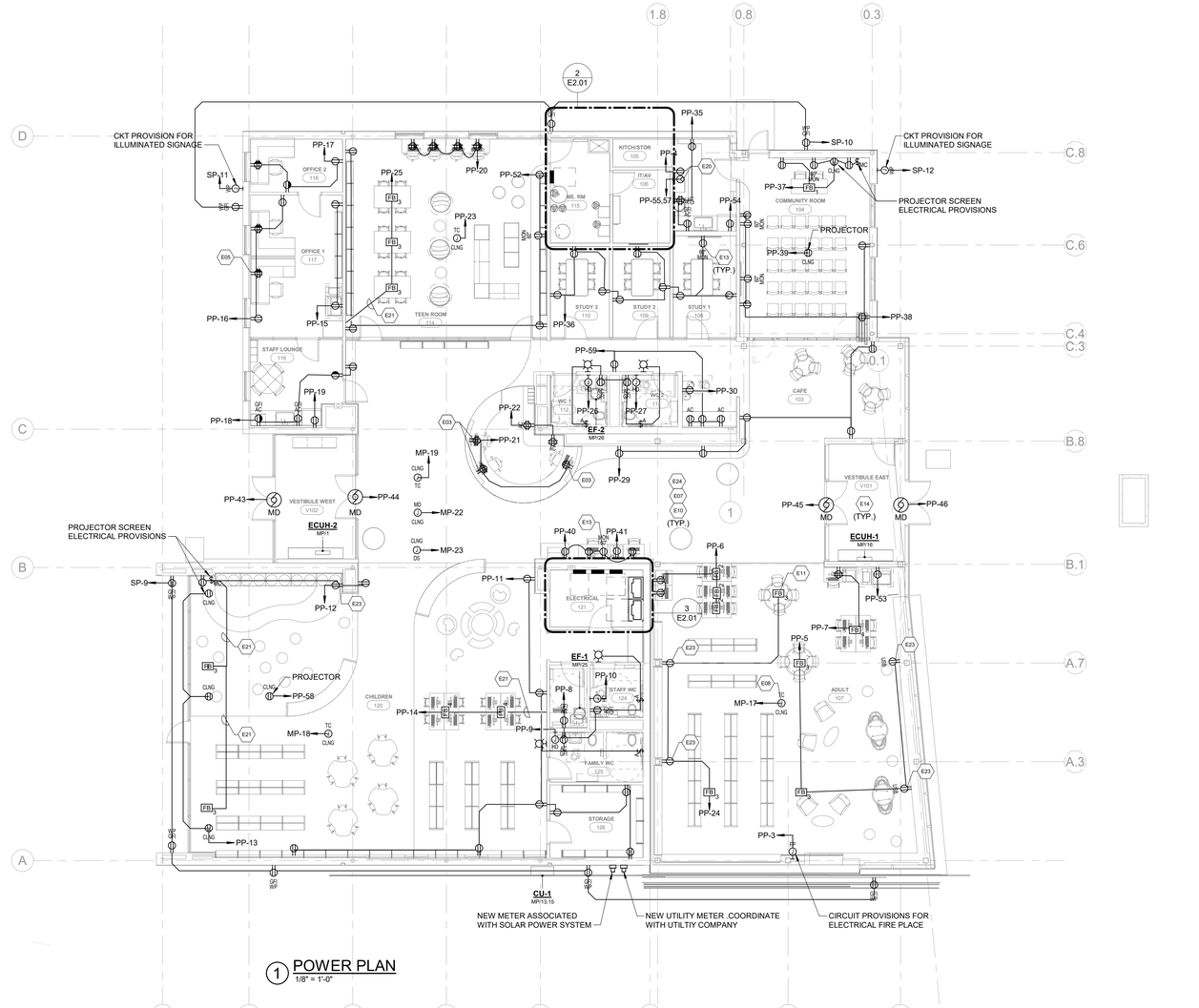
IT/SECURITY NOTES

1. INDICATION HERE OF TEL/COM, SECURITY AND ACCESS CONTROL EQUIPMENT IS FOR COORDINATION PURPOSES ONLY. COORDINATE ACTUAL LOCATIONS, QUANTITIES AND ADDITIONAL REQUIREMENTS WITH RESPECTIVE VENDOR.
2. SECURITY CAMERAS AND WIRING PROVIDED BY OTHERS. PROVIDE BACKBOX WITH 1" CONDUIT TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND WIRING REQUIREMENTS WITH SECURITY VENDOR.
3. ACCESS CONTROL DEVICES AND WIRING PROVIDED BY OTHERS. PROVIDE BACKBOX WITH 1" CONDUIT TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND WIRING REQUIREMENTS WITH SECURITY VENDOR.
4. TELECOMMUNICATIONS DEVICES AND WIRING BY OTHERS. PROVIDE BACKBOX WITH 1"C TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH IT VENDOR.
5. SECURITY AND ACCESS CONTROL PANELS AND ASSOCIATED WIRING BY OTHERS. PROVIDE DUPLEX RECEPTACLE AT SECURITY PANEL LOCATION AS SHOWN FOR USE BY SECURITY VENDOR. PROVIDE QUADRUPLEX RECEPTACLE AT ACCESS CONTROL PANEL LOCATION AS SHOWN FOR USE BY SECURITY VENDOR.
6. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH DOOR HARDWARE TO ENSURE PROPER OPERATION. PROVIDE 120V TO ALL POWER SUPPLIES AS NEEDED TO POWER ELECTRIFIED HARDWARE (ELECTRIC STRIKES, POWER ASSIST, PUSHBUTTON OPENERS, ETC).
7. PROVIDE ANY PATHWAY REQUIRED BETWEEN SECURITY/ACCESS CONTROL PANELS, IT RACK, AND ADMINISTRATIVE OFFICES. COORDINATE WITH OWNER FOR LOCATIONS.
8. PROVIDE 30A TWIST LOCK RECEPTACLE AT IT RACK FOR OWNERS USE IN POWERING OWNER SUPPLIED IT EQUIPMENT (PDU, UPS, ETC).

EQUIPMENT COORDINATION NOTES

1. UNLESS OTHERWISE NOTED, REFER TO WIRE SCHEDULE FOR EQUIPMENT CONDUCTOR SIZING.
2. REFER TO EQUIPMENT COORDINATION SCHEDULE FOR ALL ADDITIONAL INFORMATION.
3. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE PROPOSED DISCONNECT SWITCH LOCATION FOR ENGINEER REVIEW PRIOR TO ROUGH-IN. IN ALL CASES, DISCONNECT SWITCH SHALL BE LOCATED WITHIN SIGHT OF EQUIPMENT SERVED.
4. DISCONNECT SWITCHES LOCATED OUTSIDE SHALL BE PROVIDED WITH NEMA 3R ENCLOSURE UNLESS OTHERWISE NOTED.

RTU-01 (EP1-1,5,7) — EQUIPMENT TAG; PANEL & CIRCUIT



1 POWER PLAN
1/8" = 1'-0"

ELECTRICAL KEYNOTES

E03 CONTRACTOR SHALL INSTALL THE RECEPTACLES SURFACE MOUNTED ON THE MILLWORK. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS ON SITE.

E05 HALF SHADED RECEPTACLES SHOWN ON THE PLANS SHALL BE WIRED VIA PLUG LOAD CONTROLLERS PER ENERGY CODE REQUIREMENTS. REFER TO LIGHTING CONTROL RISERS FOR MORE INFORMATION ON PLUG LOAD CONTROLLERS.

E06 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL WORK ASSOCIATED WITH HEAT TRACE INSTALLATION. REFER TO HEAT TRACE WIRING DETAIL ON SHEET E4.03 FOR MORE INFORMATION. CIRCUIT PROVISIONS WERE SHOWN ON THE ELECTRICAL DRAWINGS. REFER TO PLUMBING DRAWINGS FOR EXACT LENGTHS & LOCATIONS.

E07 CONTRACTOR SHALL PROVIDE TAMPER RESISTANT TYPE RECEPTACLES THROUGH OUT THE BUILDING.

E08 ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT PROVISIONS FOR HVAC CONTROLS (VAV BOXES) AS SHOWN ON THE PLANS. REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF VAV BOXES.MULTIPLE CIRCUITS WERE PROVIDED FOR FACILITY MAINTENANCE PURPOSE. CONTROLS CONTRACTOR SHALL UTILIZE THE LINE VOLTAGE CIRCUIT PROVISIONS PROVIDED BY THE ELECTRICAL CONTRACTOR AND SHALL INCLUDE SCOPE OF THE FINAL CONNECTIONS TO THE VAV BOXES IN THE BID PACKAGE. LOW VOLTAGE TRANSFORMERS, DISCONNECT SWITCH FOR THE VAV BOXES SHALL BE PROVIDED WITH THE UNIT.

E09 PROVIDE A 1/4 BY 4 BY 24-INCH GROUNDING BUS IN COMMUNICATION/IT ROOMS. GROUND BUS SHALL BE INSTALLED HORIZONTALLY, ON INSULATED SPACERS 2 INCHES MINIMUM FROM WALL, 18 INCHES ABOVE FINISHED FLOOR. PROVIDE NO. 3/0 AWG MINIMUM INSULATED GROUNDING CONDUCTOR IN RACEWAY FROM MAIN GROUNDING ELECTRODE SYSTEM TO GROUND BUS. PROVIDE GROUNDING AND BONDING AS REQUIRED BY NFPA 70. COORDINATE EXACT LOCATION WITH ARCHITECT/ LOW VOLTAGE CONTRACTOR BEFORE ROUGH INSTALLATION IN FIELD."

E10 CONTRACTOR SHALL REFER TO LOW VOLTAGE DRAWINGS(IT/COMMUNICATIONS, AV & SECURITY BY OTHERS) AND SHALL INCLUDE ALL THE ELECTRICAL WORK ASSOCIATED WITH LOW VOLTAGE SYSTEMS IN THE SCOPE OF WORK.

E11 REFER TO FLOOR BOX SCHEDULE FOR CONFIGURATIONS AND PART NUMBERS.

E12 CONTRACTOR SHALL PROVIDE EMERGENCY SHUT-OFF SWITCH FOR ALL GAS FIRED APPLIANCES & EQUIPMENT IN THE BUILDING. REFER TO BOILER ROOM EPO DETAIL ON SHEET #E4.01 FOR MORE INFORMATION.

E13 PROVIDE LEGRAND WIREMOLD EVOLUTION #EFSB4 SERIES 4-GANG RECESSED WALL MOUNTEDWALL BOX FOR GO BOARD AND TV DISPLAY MONITOR. PROVIDE (1) DUPLEX POWER OUTLET IN (1) GANG COMPARTMENT AND, (1) DATA OUTLET AND (1) TV OUTLET IN (2) GANG COMPARTMENTS & (1) GANG COMPARTMENT FOR AV DEVICES AT EACH LOCATION. COORDINATE EXACT NEMA CONFIGURATION AND QUANTITIES OF EACH LOW VOLTAGE COMMUNICATION SYSTEM DEVICE AND AV DEVICES. CONDUITS SIZE AND PATHWAY FOR LOW VOLTAGE COMMUNICATION SYSTEM WIRING AND AV WIRING WITH OWNER'S LOW VOLTAGE COMMUNICATION CONTRACTOR OR VENDOR. PROVIDE (1) ¾"C. FOR POWER WIRING. AND (2) 1 1/4" C. FOR LOW VOLTAGE TELECOMMUNICATION WIRING AND AV WIRING. PROVIDED DIVIDER BETWEEN POWER AND LOW VOLTAGE DEVICES. PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES TO COMPLETE OPERABLE SYSTEM. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.

E14 REFER TO LOW VOLTAGE PLANS FOR LOCATIONS OF ALL CARD READERS. PROVIDE BACK BOX AND 1" EMPTY CONDUIT WITH PULL STRING ABOVE ACCESSIBLE CEILING. LOW VOLTAGE WIRING SHALL BE PROVIDED BY OTHERS. COORDINATE EXACT LOCATION IN FIELD. PROVIDE 120V POWER WIRING FROM THE NEAREST POWER OUTLET CIRCUIT AS REQUIRED.

E20 CONTRACTOR SHALL PROVIDE ELECTRICAL PROVISIONS FOR ELECTRIC RANGE & HOOD IN THE KICTHEN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER BEFORE ROUGH INSTALLATION.

E21 CONTRACTOR SHALL PROVIDE FLOOR TRENCHES IN EXISTING SLAB & SHALL ROUTE THE CONDUITS TO NEW FLOOR BOXES IN THEM. REFER TO LOW VOLTAGE PLANS AND SHALL PROVIDE SEPARATE CONDUIT FOR LOW VOLTAGE SYSTEMS WHERE REQUIRED. COORDINATE TRENCHING REQUIREMENTS WITH STRUCTURAL ENGINEER.

E23 CONTRACTOR SHALL PROVIDE STAINLESS STEEL COVER PLATE WITH GREY COLOR OUTLET.

E24 CONTRACTOR SHALL PROVIDE SHALLOW ELECTRICAL BOXES WITH DEPTH NOT EXCEEDING 1-1/2" THROUGH OUT THE BUILDING.

FLOOR BOX SCHEDULE

DESIGNATION		FLOOR BOX	FLOOR BOX DESCRIPTON	COVER	COVER DESCRIPTION	DEVICE PLATES	
FB1	COMMUNITY ROOM 104	EFB8S-OG	8-GANG RECESSED METALLIC FLOOR BOX, 8 INDIVIDUAL COMPARTMENTS.	EFB6810CTC	CARPET INSERT COVER WITH SLIDE EGRESS DOORS	STANDARD SIZE WALL PLATES 2 3/4" X 4 1/2"	PROVIDE 4 DUPLEX RECEPTACLES & ASSIGN 4 COMPARTMENTS FOR LOW VOLTAGE
FB2	ADULTS 107	RPNFB	ROUND NONMETALLIC DUAL SERVICE FLOOR BOX	RP4CTC	QUAD POWER WITH QUAD DATA SURFACE STYLE COVER	NONE	(2) PREWIRED DUPLEX RECEPTACLES + 4 DATA INSERTS PROVIDED AS A PART OF COVER KIT.
FB3	TEENS ROOM 114, ADULT 107	881	ROUND NONMETALLIC SINGLE SERVICE FLOOR BOX	895	895 STYLE DUPLEX COVER (OFFERED IN MANY COLORS AND MATERIALS)	NONE	PROVIDE 1 DUPLEX RECEPTACLE IN THE FLOOR BOX
FB4	CHILDREN 120 & ADULT 107	RFB6	6 GANG RECESSED METALLIC FLOOR BOX	FPCTC	CARPET INSERT COVER WITH ROTATING UP EGRESS DOORS	RFB6DP (DUPLEX PLATE), RFB6DEC (DECORA STYLE PLATE FOR DATA)	PROVIDE 4 DUPLEX RECEPTACLES & ASSIGN 2 COMPARTMENTS FOR LOW VOLTAGE

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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
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MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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BLOOMFIELD, CT 06002

PROJECT NORTH

CD SET

KEY PLAN

DRAWING TITLE
POWER PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	SM
APPROVED BY	BJZ

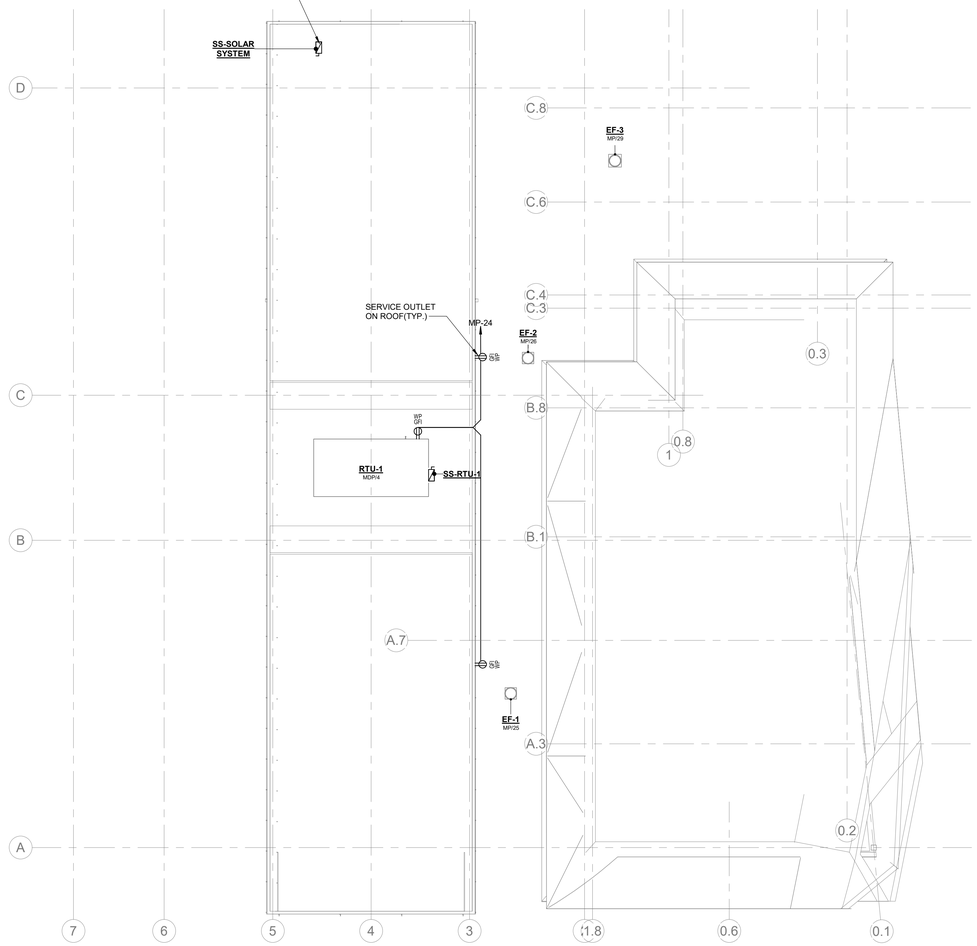
ISSUE DATES

NO.	DATE	PURPOSE

E2.01

2/15/2023 11:53:04 AM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt

SOLAR SYSTEM NOTE:
THE SOLAR PANEL LAYOUT SHOWN ON ROOF IS FOR REFERENCE ONLY. SOLAR SYSTEM DESIGNER/CONSULTANT IS RESPONSIBLE TO LAYOUT THE PANELS TO MAXIMIZE THE POWER OUTPUT FROM SOLAR PANELS. REFER TO SPEC SECTION 263100 FOR SYSTEM PERFORMANCE.



1 ROOF POWER PLAN
1/8" = 1'-0"

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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
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SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

STATE OF CONNECTICUT
BRIAN J. ZAMBOLIN
No. 17228
REGISTERED PROFESSIONAL ENGINEER

BLOOMFIELD PUBLIC LIBRARY
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1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE
ROOF POWER PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E2.02

2/15/2023 11:53:06 AM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt

SINGLE PHASE WIRE SCHEDULE

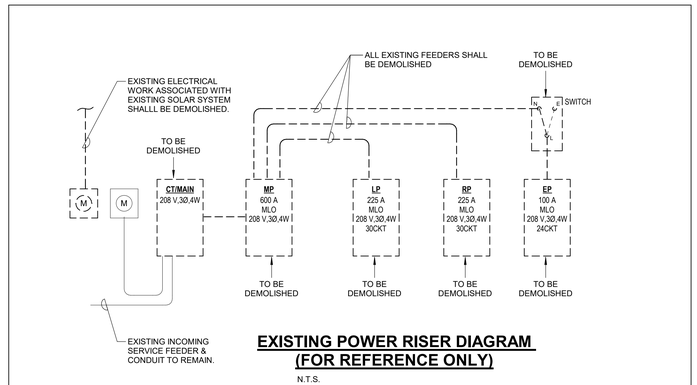
MOCP (1-POLE OR 2-POLE)	CONDUCTORS (1 PH, 2W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (1 PH, 3W) WITH GROUND	CONDUIT SIZE
15A	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"
20A	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"
25A	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"
30A	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"
35A	2#8 & 1#10G	3/4"	3#8 & 1#10G	3/4"
40A	2#8 & 1#10G	3/4"	3#8 & 1#10G	3/4"
45A	2#6 & 1#10G	1"	3#6 & 1#10G	1"
50A	2#6 & 1#10G	1"	3#6 & 1#10G	1"
60A	2#4 & 1#10G	1"	3#4 & 1#10G	1-1/4"
70A	2#4 & 1#8G	1"	3#4 & 1#8G	1-1/4"
80A	2#3 & 1#8G	1-1/4"	3#3 & 1#8G	1-1/2"
90A	2#2 & 1#8G	1-1/4"	3#2 & 1#8G	1-1/2"
100A	2#1 & 1#8G	1-1/2"	3#1 & 1#8G	2"

THREE PHASE WIRE SCHEDULE

MOCP (3 POLE)	CONDUCTORS (3 PH, 3W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (3 PH, 4W) WITH GROUND	CONDUIT SIZE
15A	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"
20A	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"
25A	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"
30A	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"
35A	3#8 & 1#10G	3/4"	4#8 & 1#10G	3/4"
40A	3#8 & 1#10G	3/4"	4#8 & 1#10G	3/4"
45A	3#6 & 1#10G	1"	4#6 & 1#10G	1"
50A	3#6 & 1#10G	1"	4#6 & 1#10G	1"
60A	3#4 & 1#10G	1-1/4"	4#4 & 1#10G	1-1/4"
70A	3#4 & 1#8G	1-1/4"	4#4 & 1#8G	1-1/4"
80A	3#3 & 1#8G	1-1/4"	4#3 & 1#8	1-1/4"
90A	3#2 & 1#8G	1-1/4"	4#2 & 1#8G	1-1/2"
100A	3#1 & 1#8G	1-1/2"	4#1 & 1#8G	2"
110A	3#1 & 1#6G	1-1/2"	4#1 & 1#6G	2"
125A	3#1/0 & 1#6G	1-1/2"	4#1/0 & 1#6G	2"
150A	3#1/0 & 1#6G	2"	4#1/0 & 1#6G	2"
175A	3#2/0 & 1#6G	2"	4#2/0 & 1#6G	2"
200A	3#3/0 & 1#6G	2"	4#3/0 & 1#6G	2-1/2"
225A	3#4/0 & 1#4G	2-1/2"	4#4/0 & 1#4G	2-1/2"
250A	3#250KCMIL & 1#4G	2-1/2"	4#250KCMIL & 1#4G	3"
300A	3#350KCMIL & 1#4G	3"	4#350KCMIL & 1#4G	3"
350A	3#500KCMIL & 1#3G	3"	4#500KCMIL & 1#3G	4"
400A	3#500KCMIL & 1#3G	3-1/2"	4#500KCMIL & 1#3G	4"
450A	(2)3#4/0 & 1#2G	(2) 3"	(2)4#4/0 & 1#2G	(2) 3"
500A	(2)3#250KCMIL & 1#2G	(2) 3"	(2)4#250KCMIL & 1#2G	(2) 3"
600A	(2)3#350KCMIL & 1#1G	(2) 3"	(2)4#350KCMIL & 1#1G	(2) 3"
700A	(2)3#500KCMIL & 1#1/0G	(2) 3-1/2"	(2)4#500KCMIL & 1#1/0G	(2) 4"
800A	(2)3#500KCMIL & 1#1/0G	(2) 3-1/2"	(2)4#500KCMIL & 1#1/0G	(2) 4"
900A	(3)3#350KCMIL & 1#2/0G	(3) 3"	(3)4#350KCMIL & 1#2/0G	(3) 3"
1000A	(3)3#500KCMIL & 1#2/0G	(3) 3-1/2"	(3)4#500KCMIL & 1#2/0G	(3) 3-1/2"
1200A	(4)3#350KCMIL & 1#3/0G	(4) 4"	(4)4#350KCMIL & 1#3/0G	(4) 4"
1600A	(4)3#600KCMIL & 1#4/0G	(4) 4"	(4)4#600KCMIL & 1#4/0G	(4) 4"
2000A	(6)3#400KCMIL & 1#250KCMIL G	(6) 3"	(6)4#400KCMIL & 1#250KCMIL G	(6) 3"
2500A	(8)3#400KCMIL & 1#250KCMIL G	(8) 3"	(8)4#400KCMIL & 1#250KCMIL G	(8) 3"

NOTES:

1. CONDUCTOR SIZES BASED UPON 75°C INSULATION.
2. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED.
3. MINIMUM SIZE CONDUIT IS 3/4" UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
4. PROVIDE A 3-PHASE 4-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL.
5. PROVIDE A 1-PHASE 3-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL.
6. MINIMUM SIZE CONDUIT UNDERGROUND IS 4 INCH EXCEPT FOR SITE BRANCH CIRCUITS SUCH AS LIGHTING AND MISCELLANEOUS POWER AND SYSTEMS WHICH SHALL BE A MINIMUM OF 1 INCH.
7. PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
8. CONDUIT AND WIRE SIZES SHOWN IN SCHEDULE ABOVE ARE BASED ON MAXIMUM CIRCUIT LENGTH OF 100'.
9. CONDUIT AND WIRE SIZES FOR CIRCUITS OVER 100' SHALL BE CALCULATED TO ACCOUNT FOR VOLTAGE DROP.



EXISTING POWER RISER DIAGRAM (FOR REFERENCE ONLY)

N.T.S.

PHASE-1:

USE EXISTING UTILITY SERVICE & EXISTING MDP TO SUPPORT THE BUILDING UPGRADES

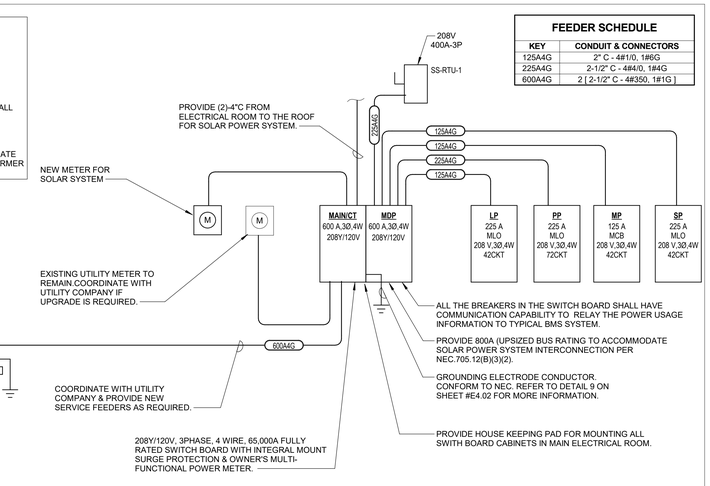
PHASE-2:

COORDINATE WITH UTILITY COMPANY FOR PAD MOUNT TRANSFORMER INSTALLATION & STRATEGICALLY PROVIDE NEW CONDUITS FROM NEW PAD MOUNT TRANSFOREMER LOCATION TO NEW SWITCH BOARD LOCATION & SHALL CAP THEM.

PHASE-3:

AFTER THE NEW DISTRIBUTION EQUIPMENT IS DELIVERED ON SITE, COORDINATE THE SHUT-OFF TIME WITH UTILITY COMPANY FOR ENERGIZING THE TRANSFORMER & SWAP THE EXISTING MDP WITH NEW EQUIPMENT.

FEEDER SCHEDULE	
KEY	CONDUIT & CONNECTORS
125A4G	2" C - 4#1/0, 1#6G
225A4G	2-1/2" C - 4#4/0, 1#4G
600A4G	2 [2-1/2" C - 4#350, 1#1G]



NEW POWER RISER DIAGRAM

N.T.S.

CONTROL TYPES	
TYPE	DESCRIPTION
-	NONE
ECM	DIV. 23 - ELECTRICALLY COMMUTATED MOTOR
SPP	MANUF. - SINGLE POINT POWER

STARTER TYPES	
TYPE	DESCRIPTION
-	NONE
ECM	DIV. 23 - ELECTRICALLY COMMUTATED MOTOR
SPP	MANUF. - SINGLE POINT POWER

DISCONNECT TYPES	
TYPE	DESCRIPTION
NFS	DIV. 26 - NON-FUSED SWITCH
NFS-M	MANUF. - NON-FUSED SWITCH

EQUIPMENT COORDINATION SCHEDULE

NOTE: REFER TO WIRE SCHEDULE FOR CONDUCTOR SIZING FOR EACH PIECE OF EQUIPMENT.

	EQUIPMENT INFORMATION				CIRCUIT INFORMATION				CONTROL			STARTER			DISCONNECT			
TAG	FLA	MCA	VOLT	PH	PANEL	NO.	APPARENT LOAD	LOAD CLASSIFICATION	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	COMMENTS
AC-1	0 A	0 A	208 V	1	MP	13,15	0 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	POWERED FROM OUTDOOR UNIT
B-1	4.2 A	5.2 A	120 V	1	MP	6	500 VA	MTR	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
B-2	4.2 A	5.2 A	120 V	1	MP	7	500 VA	MTR	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
BMS PANEL	4.2 A	5.2 A	120 V	1	MP	8	500 VA	SPEC	BMS	DIV. 23	DIV. 23	-	-	-	NFS-M	MANUF.	MANUF.	
BP-1	10 A	12.5 A	120 V	1	MP	5	1,200 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
BP-2	10 A	12.5 A	120 V	1	MP	4	1,200 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
CU-1	14.4 A	18 A	208 V	1	MP	13,15	3,000 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
DHWP-1	2.2 A	2.7 A	120 V	1	MP	3	500 VA	MTR							NFS	DIV. 26	DIV. 26	
ECUH-1	12.5 A	15.6 A	120 V	1	MP	16	1,500 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS-M	MANUF.	MANUF.	
ECUH-2	12.5 A	15.6 A	120 V	1	MP	1	1,500 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS-M	MANUF.	MANUF.	
EF-1	4.4 A	5.5 A	120 V	1	MP	25	528 VA	MTR	BMS	DIV. 23	DIV. 23	ECM	DIV. 23	DIV. 23	NFS	DIV. 26	DIV. 26	
EF-2	4.4 A	5.5 A	120 V	1	MP	26	528 VA	MTR	BMS	DIV. 23	DIV. 23	ECM	DIV. 23	DIV. 23	NFS	DIV. 26	DIV. 26	
EF-3	9.8 A	12.3 A	115 V	1	MP	29	1,127 VA	MTR	AC	MANUF.	DIV. 23	ECM	DIV. 23	DIV. 23	NFS	DIV. 26	DIV. 26	
HGP-1	8.8 A	11 A	208 V	1	MP	28,30	1,830 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HGP-2	8.8 A	11 A	208 V	1	MP	31,33	1,830 VA	MTR	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HWH-1	16.7 A	20.9 A	208 V	3	MP	10,12,14	6,000 VA	SPEC							NFS	DIV. 26	DIV. 26	
RTU-1	191.9 A	192 A	208 V	3	MDP	4	69,120 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS-M	MANUF.	MANUF.	

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PROJECT
CD SET

KEY PLAN

DRAWING TITLE

POWER RISER DIAGARAMS & ELECTRICAL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E3.01

2/15/2023 11:53:11 AM BIM 360://Bloomfield Library - McMahon Building/MEP_21-3908 Bloomfield Libraries-McMahon Wintonbury.rvt

SWITCHBOARD: MAIN/CT

LOCATION:
MAIN DEVICE: 600 A
BUS AMPS: 800A
VOLTAGE: 120/208 Wye
AIC RATING: 65,000
SPECIAL:

MAIN SECTION

C.T. COMPARTMENT: CURRENT TRANSFORMER, POTENTIAL TRANSFORMER
CUSTOMER POWER QUALITY METER

MAIN DEVICE

	FRAME	POLES	BREAKER	SPECIAL	DESCRIPTION/NAMEPLATE
	800A	3	600		

DISTRIBUTION SECTION No. 1

CKT	Rating	POLES	LOAD	DESCRIPTION/NAMEPLATE	NOTES
1	125 A	3	7,401 VA	LP	
2	225 A	3	52,914 VA	PP	
3	125 A	3	29,684 VA	MP	
4	225 A	3	69,120 VA	RTU-1	
5	125 A	3	24,828 VA	SP	
6					
7					
8	125 A	3	0 VA	SS-SOLAR SYSTEM INTERCONNETCION	AT THE FARTHEST END FROM MAIN BREAKER ON BUS

LOAD SUMMARY

SWBD LOAD	CONN. LOAD
MDP	183,947 VA

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
FIRE ALARM	1,500 VA	100.00%	1,500 VA		
HVAC	69,120 VA	100.00%	69,120 VA		
LITES	10,991 VA	125.00%	13,739 VA		
MTR	19,028 VA	103.94%	19,778 VA		
RCPT	35,040 VA	64.27%	22,520 VA		
SPEC	48,268 VA	100.00%	48,268 VA		
				CONN. LOAD:	183,947 VA
				EST. DEMAND LOAD:	174,924 VA
				CONN. CURRENT:	510.6 A
				EST. DEMAND CURRENT:	485.5 A

NOTES:

Branch Panel: LP

Location:
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	LITES#RM.KITCH, STUDY &...		20 A	1	0.8 0.9			1	20 A		LITES #VESTIBULE, ENTRY, WC1 &...	2
3	LITES #TEEN, OFFICE & STAFF...		20 A	1		0.7 0.8		1	20 A		LITES#CHILDREN RM	4
5	LITES#ELE, RESTROOMS & STORAGE		20 A	1			0.3 1.2	1	20 A		LITES#ADULT & CAFE	6
7	LITES #EXTERIOR		20 A	1	0.2 0.9			1	20 A		LITES#CHILDREN RM	8
9	INVERTER #INV(750VA)		20 A	1		0.1 0.8		1	20 A		LITES#ADULT & EAST VESTIBULE	10
11	DIGITAL LIGHTING CONTROL PANEL		20 A	1			0.5 0.2	1	20 A		UPLIGHTS #ABOVE SHELFS ADULT...	12
13	Spare	--	20 A	1	0.0 0.0			1	20 A	--	Spare	14
15	Spare	--	20 A	1		0.0 0.0		1	20 A	--	Spare	16
17	Space	--	--	1			-- --	1	--	--	Space	18
19	Space	--	--	1	-- --			1	--	--	Space	20
21	Space	--	--	1		-- --		1	--	--	Space	22
23	Space	--	--	1			-- --	1	--	--	Space	24
25	Space	--	--	1	-- --			1	--	--	Space	26
27	Space	--	--	1		-- --		1	--	--	Space	28
29	Space	--	--	1			-- --	1	--	--	Space	30
31	Space	--	--	1	-- --			1	--	--	Space	32
33	Space	--	--	1		-- --		1	--	--	Space	34
35	Space	--	--	1			-- --	1	--	--	Space	36
37	Space	--	--	1	-- --			1	--	--	Space	38
39	Space	--	--	1		-- --		1	--	--	Space	40
41	Space	--	--	1			-- --	1	--	--	Space	42
				Total Load:	2.8 kVA	2.3 kVA	2.3 kVA					
				Total Amps:	23.5 A	19.6 A	18.8 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker,HA = Handle Padlock Attachment, HO = Handle Lock-on Device, GFPE = GFPE Circuit Breaker (30mA

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LITES	7,401 VA	125.00%	9,251 VA		
				Total Conn. Load:	7,401 VA
				Total Est. Demand:	9,251 VA
				Total Conn.:	20.5 A
				Total Est. Demand:	25.7 A

Notes:

Branch Panel: PP

Location:
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	RCPT		20 A	1	0.4 0.5			1	20 A		RCPT	2
3	ELECTRIC FIRE PLACE		20 A	1		1.8 0.6		1	20 A		RCPT #DENLAR HOOD	4
5	RCPT#ADULTS		20 A	1			1.1 1.4	1	20 A		RCPT & FLOOR BOXES# ADULTS	6
7	RCPT & FLOOR BOXES# ADULTS		20 A	1	0.5 0.5			1	20 A		RCPT #BATHROOM	8
9	HAND DRYER #FAMILY WC	HA	20 A	1		1.5 1.5		1	20 A	HA	HAND DRYER #STAFF WC	10
11	RCPT#CHILDREN		20 A	1			1.4 1.3	1	20 A		RCPT & FLOOR BOXES# CHILDREN	12
13	RCPT		20 A	1	0.5 1.4			1	20 A		RCPT	14
15	RCPT# PRINTER		20 A	1		0.4 0.7		1	20 A		RCPT# OFFICE 1	16
17	RCPT#OFFICE 2		20 A	1			0.5 0.6	1	20 A		RCPT#STAFF LOUNGE	18
19	RCPT#REFRIGERATOR STAFF...	GFI	20 A	1	1.2 0.7			1	20 A		RCPT#WORK STATIONS-TEEN ROOM	20
21	RCPT #RECEPTION		20 A	1		0.5 0.4		1	20 A		RCPT #COUNTERTOP RECEPTION	22
23	TEMP CONTROLS		20 A	1			0.5 1.1	1	20 A		RCPT #ADULT	24
25	FLOOR BOXES #TEEN ROOM		20 A	1	0.5 1.5			1	20 A	HA	HAND DRYER #WC 1	26
27	HAND DRYER #WC 2	HA	20 A	1		1.5 0.4		1	20 A		RCPT#BATHROOMS WC-1&WC2	28
29	RCPT #CORRIDOR & CAFE		20 A	1			0.9 0.2	1	20 A	GFI	RCPT#DRINKING WATER FOUNTAIN	30
31	IT RCPT		20 A	1	0.4 0.4			1	20 A		IT RCPT	32
33	IT RCPT		20 A	1		0.4 0.4		1	20 A		SECURITY RCPT	34
35	RCPT#KITCHENETTE		20 A	1			0.8 1.6	1	20 A		RCPT#STUDY ROOMS	36
37	RCPT #COMMUNITY RM		20 A	1	1.1 1.1			1	20 A		RCPT #COMMUNITY RM	38
39	RCPT #PROJECTOR		20 A	1		0.2 0.7		1	20 A		RCPT#CIRCULATION	40
41	RCPT #PRINTER CIRCULATION		20 A	1			0.2 1.0	1	20 A	HO	FIRE ALARM	42
43	MOTORISED DOOR #WEST VESTIBULE		20 A	1	0.7 0.7			1	20 A		MOTORISED DOOR #WEST VESTIBULE	44
45	MOTORISED DOOR #EAST VESTIBULE		20 A	1		0.7 0.7		1	20 A		MOTORISED DOOR #EAST VESTIBULE	46
47	RCPT #PUBLIC ADDRESS SYSTEM		20 A	1			0.4 0.4	1	20 A		RCPT #IT CABINET	48
49	RCPT #L5-20R		20 A	1	1.2 1.2			1	20 A		RCPT #L5-20R	50
51	FIRE ALARM	HO	20 A	1		0.5 0.9		1	20 A		RCPT #TEEN RM	52
53	RCPT #PRINTER		20 A	1			1.2 1.2	1	20 A	GFI	RCPT#REFRIGERATOR KITCHEN	54
55	ELECTRICAL RANGE #FUTURE		50 A	2	4.0							56
57						4.0 0.2		1	20 A		RCPT#PROJECTOR	58
59	RCPT#BOH		20 A	1			0.7 0.0	1	20 A	--	Spare	60
61	Spare	--	20 A	1	0.0 0.0			1	20 A	--	Spare	62
63	Spare	--	20 A	1		0.0 --		1	--	--	Space	64
65	Space	--	--	1			-- --	1	--	--	Space	66
67	Space	--	--	1	-- --			1	--	--	Space	68
69	Space	--	--	1		-- --		1	--	--	Space	70
71	Space	--	--	1			-- --	1	--	--	Space	72
				Total Load:	18.6 kVA	17.9 kVA	16.4 kVA					
				Total Amps:	156.8 A	150.9 A	137 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, HA = Handle Padlock Attachment, HO = Handle Lock-on Device, GFPE = GFPE Circuit Breaker (30mA

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MTR	2,784 VA	106.25%	2,958 VA		
RCPT	32,160 VA	65.55%	21,080 VA	**Total Conn. Load:**	52,914 VA
FIRE ALARM	1,500 VA	100.00%	1,500 VA	**Total Est. Demand:**	42,051 VA
LITES	170 VA	125.00%	213 VA	**Total Conn.:**	146.9 A
SPEC	16,300 VA	100.00%	16,300 VA	**Total Est. Demand:**	116.7 A

Notes:

Branch Panel: MP

Location:
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 125 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	UNIT HEATER#ECUH-2		20 A	1	1.5							2
3	PUMP #DHWP-1		20 A	1		0.5 1.2		1	20 A		PUMP #BP-1	4
5	PUMP #BP-2		20 A	1			1.2 0.5	1	20 A		BOILER #B-2	6
7	BOILER #B-2		20 A	1	0.5 0.5			1	20 A		BMS PANEL	8
9						1.5 2.0						10
11	HEAT TRACE	GFI	30 A	2			1.5 2.0	3	30 A		WATER HEATER #HWH-1	12
13												14
15	CU-1		30 A	2	1.5 2.0							16
17	TEMP CONTROLS		20 A	1		1.5 1.5		1	20 A		UNIT HEATER#ECUH-1	18
19	TEMP CONTROLS		20 A	1	0.5 0.7		0.5 0.5	1	20 A		TEMP CONTROLS	20
21	RCPT#MIXING VALVE		20 A	1		0.2 0.5		1	20 A		RCPT #CUSTODIAN	22
23	DUCT SMOKES		20 A	1			0.5 0.5	1	20 A		MOTORIZED DAMPERS	24
25	EXHAUST FAN #EF-1		20 A	1	0.5 0.5			1	20 A		RCPT	26
27	GLYCOL SKID		20 A	1		0.5 0.9						28
29	HOOD EXHAUST FAN #FUTURE		20 A	1			1.1 0.9	2	20 A		GLYCOL PUMP #HGP-1	30
31					0.9 0.0							32
33	GLYCOL PUMP #HGP-2		20 A	2		0.9 0.0		1	20 A	--	Spare	34
35	Spare	--	20 A	1			0.0 --	1	--	--	Space	36
37	Spare	--	20 A	1	0.0 --			1	--	--	Space	38
39	Space	--	--	1		-- --		1	--	--	Space	40
41	Space	--	--	1			-- --	1	--	--	Space	42
				Total Load:	9.2 kVA	11.2 kVA	9.3 kVA					
				Total Amps:	76.6 A	93.5 A	77.5 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, HA = Handle Padlock Attachment, HO = Handle Lock-on Device, GFPE = GFPE Circuit Breaker (30mA

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MTR	16,244 VA	104.62%	16,994 VA		
RCPT	1,440 VA	100.00%	1,440 VA	**Total Conn. Load:**	29,684 VA
SPEC	12,000 VA	100.00%	12,000 VA	**Total Est. Demand:**	30,434 VA
				Total Conn.:	82.4 A
				Total Est. Demand:	84.5 A

Notes:

Branch Panel: SP

Location:
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1					5.0 5.0							2
3	EV CHARGING STATION-2		60 A	2		5.0 5.0		2	60 A		EV CHARGING STATION-1	4
5	SITE POLE LITES #WEST SIDE		20 A	1			0.4 0.0	1	20 A		BOLLARD LITES #WEST SIDE	6
7	BOLLARD LITES #EAST SIDE		20 A	1	0.0 0.5			1	20 A		BUILDING MOUNT EXTERIOR LIGHTS	8
9	EXTERIOR RCPTS #SOUTH		20 A	1		0.9 0.5		1	20 A		EXTERIOR RCPTS #NORTH	10
11	ILLUMINATED SIGNAGE #WEST		20 A	1			1.2 1.2	1	20 A		ILLUMINATED SIGNAGE #EAST	12
13	Spare	--	20 A	1	0.0 0.0			1	20 A	--	Spare	14
15	Spare	--	20 A	1		0.0 0.0		1	20 A	--	Spare	16
17	Space	--	--	1			-- --	1	--	--	Space	18
19	Space	--	--	1	-- --			1	--	--	Space	20
21	Space	--	--	1		-- --		1	--	--	Space	22
23	Space	--	--	1			-- --	1	--	--	Space	24
25	Space	--	--	1	-- --			1	--	--	Space	26
27	Space	--	--	1		-- --		1	--	--	Space	28
29	Space	--	--	1			-- --	1	--	--	Space	30
31	Space	--	--	1	-- --			1	--	--	Space	32
33	Space	--	--	1		-- --		1	--	--	Space	34
35	Space	--	--	1			-- --	1	--	--	Space	36
37	Space	--	--	1	-- --			1	--	--	Space	38
39	Space	--	--	1		-- --		1	--	--	Space	40
41	Space	--	--	1			-- --	1	--	--	Space	42
				Total Load:	10.5 kVA	11.4 kVA	2.9 kVA					
				Total Amps:	97.5 A	105 A	24 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RCPT	1,440 VA	100.00%	1,440 VA		
LITES	3,420 VA	125.00%	4,275 VA	**Total Conn. Load:**	24,828 VA
SPEC	19,968 VA	100.00%	19,968 VA	**Total Est. Demand:**	25,683 VA
				Total Conn.:	68.9 A
				Total Est. Demand:	71.3 A

Notes:

CONSTRUCTION NOTE:

CONTRACTOR SHALL PROVIDE GFCI PROTECTION FOR CIRCUITS AS MARKED ABOVE IN THE PANEL SCHEDULES.
IN CASE IF PANEL MANUFACTURERS CANNOT PROVIDE GFCI TYPE BREAKERS AS MARKED ABOVE, PROVIDE NORTH SHORE SAFETY -EQUIPMENT LEAKAGE CIRCUIT INTERRUPTERS FOR EQUIPMENT PROTECTION OR ACCEPTABLE EQUALS. BELOW ARE FEW CATALOG NUMBERS FOR REFERENCE:
1. FOR 208V-1PH, 60A/2P GFCI PROTECTION DEVICE #PGFI-9645N
2. FOR 208V-3PH, 60A/3P GFCI PROTECTION DEVICE #PGFI-8645N
2. FOR 208V-1PH, 30A/2P GFCI PROTECTION DEVICE #PGFI-9311-XX
4. FOR 208V-3PH, 30A/3P GFCI PROTECTION DEVICE #PGFI-8311-XX

NOTE:
1.ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE SHORT CIRCUIT ANALYSIS, COORDINATION STUDY AND ARC FLASH STUDIES ALONG WITH SUBMITTAL.

2.ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR. ANY CHANGE IN SHORT CIRCUIT RATING OF ELECTRICAL EQUIPMENT BASED ON THE STUDIES.

tskpstudio.com
TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
CD SET

KEY PLAN

DRAWING TITLE
PANEL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	
DATE	02/06/2023
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E3.02

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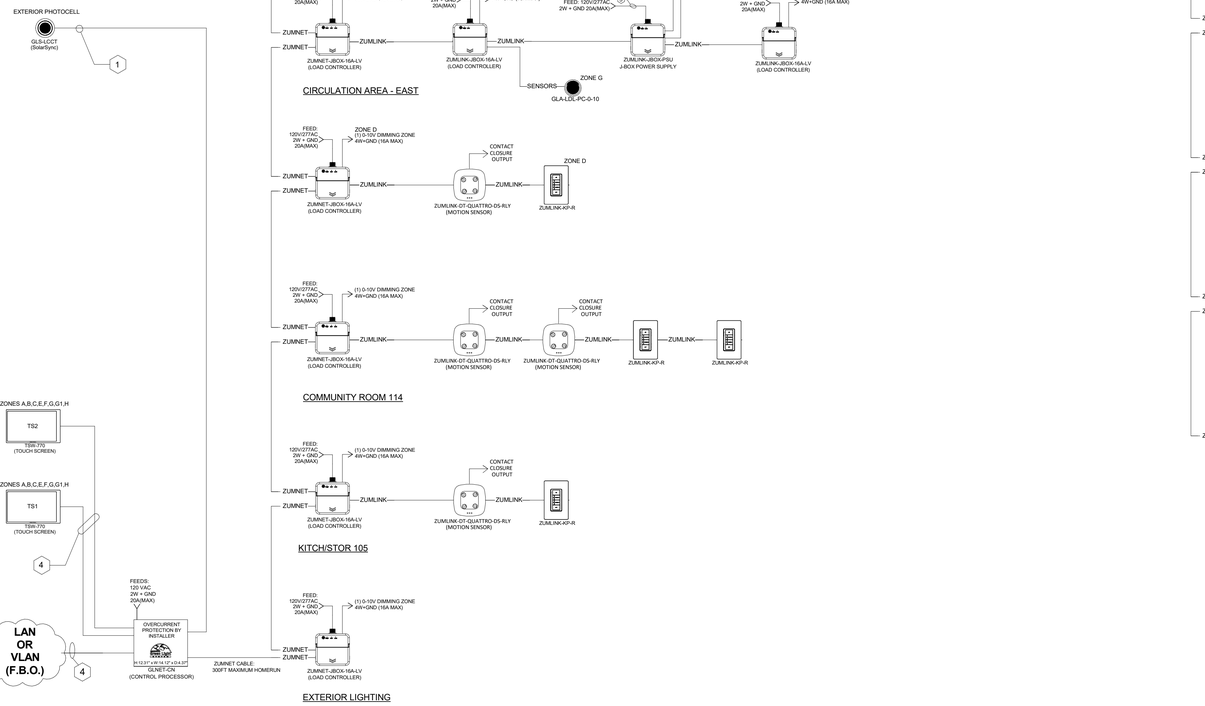
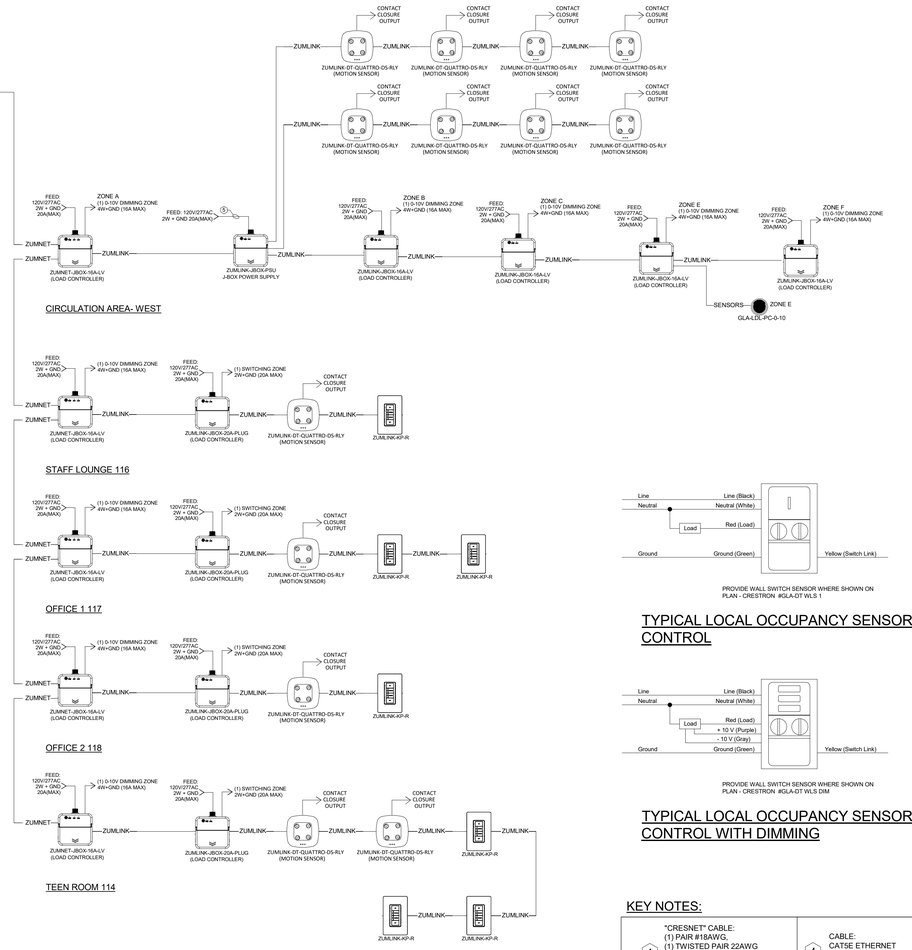


FIRST FLOOR

FIRST FLOOR

NETWORK LIGHTING CONTROL RISER
SITE, CORRIDOR, GENERAL CIRCULATION



PROVIDE WALL SWITCH SENSOR WHERE SHOWN ON PLAN - CRESTRON #GLA-OT WLS 1

TYPICAL LOCAL OCCUPANCY SENSOR CONTROL

PROVIDE WALL SWITCH SENSOR WHERE SHOWN ON PLAN - CRESTRON #GLA-OT WLS DIM

TYPICAL LOCAL OCCUPANCY SENSOR CONTROL WITH DIMMING

KEY NOTES:

1. "CRESNET" CABLE:
(1) PAIR #18AWG,
(1) TWISTED PAIR 22AWG
W/SHIELD
NON-PLENUM PN: CRESNET-NP-TL
PLENUM PN: CRESNET-P-TL
CRESNET DEVICES ARE LIMITED TO (20) PER CRESNET RUN
2. DMX CABLE:
BELDEN STANDARD 9729
OR EQUAL
3. CABLE:
(1) TWISTED PAIR 18AWG
(1) SHIELD
4. CABLE:
CAT5E ETHERNET
ETHERNET DEVICES MUST BE HOME RUN
5. SUITABLE GAUGE WIRE TO MEET LOAD REQUIREMENTS
6. DALI CABLE:
(1) PAIR 16-22 AWG
SHIELDED RECOMMENDED

—ZUMLINK— CABLE:
CBL-CAT5E-ZUMLINK-P
(CAT5E EQUIVALENT)

— ZUMNET— CABLE:
CBL-CAT5E-ZUMNET-P
(CAT5E EQUIVALENT)

—SENSORS— CABLE:
CRESNET OR EQUIVALENT
(1) PAIR #18AWG,
(1) TWISTED PAIR 22AWG

ZUM WIRED DEVICE NOTES:

- ZUMNET JBOXES ARE REQUIRED PER SPACE IF THE SYSTEM IS TO BE NETWORKED
- UP TO 20 ZUMNET JBOXES CAN BE DAISY CHAINED TOGETHER
- DISTANCE BETWEEN EACH ZUMNET JBOX IS LIMITED TO 328FT (100M)
- EACH SPACE (ZUMNET JBOX) CAN SUPPORT UP TO 32 ZUMLINK DEVICES AND DIGITAL DEVICES
- ZUMLINK DEVICES CONSIST OF ANY DEVICE CONNECTED WITHIN THE SPACE. THIS INCLUDES DIGITAL DEVICES AS WELL
- ZUMLINK DEVICE WIRE DISTANCE LIMITATION IS 500FT TO NEXT AC POWERED ZUMLINK DEVICE

NOTE:

LIGHTING CONTROL RISERS WERE PROVIDED BY CRESTRON. SHOWN ON SHEETS FOR REFERENCE ONLY. FOR ANY QUERIES, CONTACT ROBERT J. TIERNEY (860.632.8766 x107) FROM APEX LIGHTING SOLUTIONS .

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TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
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860.547.1970
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BLOOMFIELD, CT 06002

PROJECT

CD SET

KEY PLAN

DRAWING TITLE

LIGHTING CONTROL RISER

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	6" = 1'-0"
DATE	02/06/2023
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

E3.03

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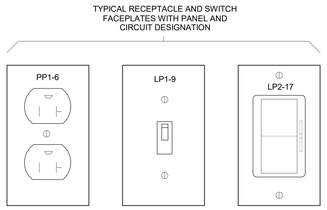
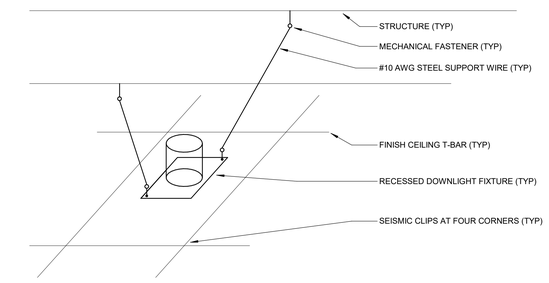


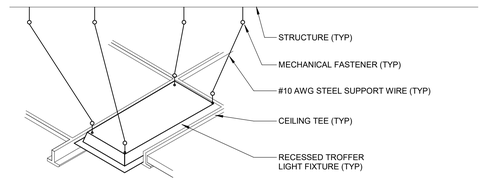
NOTES:

1. ALL COVER PLATES SHALL BE HIGH IMPACT MOLDED THERMOPLASTIC (NYLON).
2. ALL LABELING SHALL UTILIZE ABRASION RESISTANT LAMINATED ADHESIVE LABELS WITH 1/4" TALL BLACK TEXT, IN ARIAL FONT, ON CLEAR BACKGROUND. DESIGN BASED ON BROTHER P-TOUCH LABELS.
3. APPLIES TO ALL DEVICES IN ALL AREAS.
4. PANEL & CIRCUIT DESIGNATION LABEL SHALL BE PLACED BOTH ON FACEPLATE & ALSO INSIDE THE FIXTURE BACK BOX.

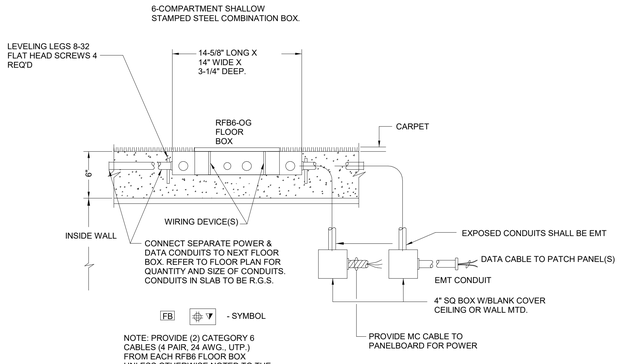
1 TYPICAL DEVICE FACEPLATE/BACK BOX LABELING DETAIL
NTS



2 TYPICAL RECESSED DOWNLIGHT SUPPORT DETAIL
NTS

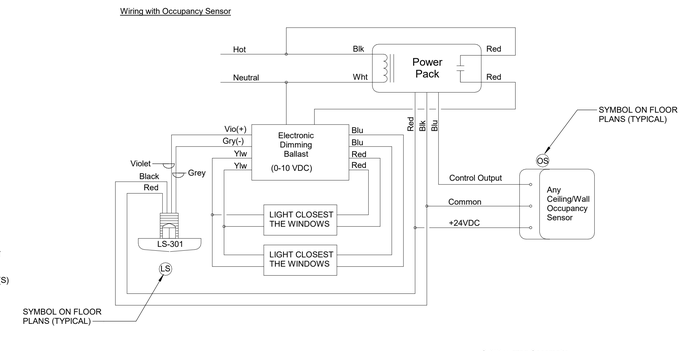


3 TYPICAL RECESSED TROFFER LIGHT SUPPORT DETAIL
NTS



NOTE: PROVIDE (2) CATEGORY 6 CABLES (4 PAIR, 24 AWG., UTP.) FROM EACH RFB6 FLOOR BOX UNLESS OTHERWISE NOTED TO THE PLYWOOD BACKBOARD LOCATED IN THE DATA ROOM

4 IN-SLAB FLOOR BOX DETAIL
NTS



LS-301 Wiring Schematic

Operation:
Occupancy Sensor switches
Lights ON/Off. When occupied, the LS-301 dims the lights as daylight increases.

NOTE:

1. NO MORE THAN THREE SENSORS TO ONE POWER PACK
2. DASHED LINES INDICATE OPTIONAL POSSIBILITIES

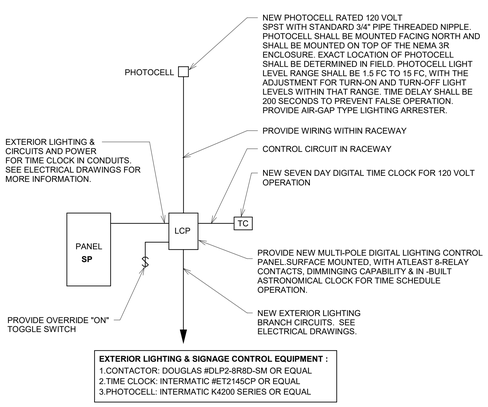
TYPICAL SPECIFICATIONS:

1. CEILING MOUNTED DAYLIGHTING SENSOR WITHIN 12' OF THE WINDOWS SHALL BE -WATTSTOPPER LS-301 LOW VOLTAGE SENSOR OR APPROVED EQUAL. PROVIDE (6) SENSORS FOR ATTIC STOCK.
2. PROVIDE LSR-301-S SETUP REMOTE CONTROL. PROVIDE (6) REMOTE CONTROLLER FOR ATTIC STOCK.
3. POWER PACK - WATTSTOPPER BX50RC UNIVERSAL VOLTAGE POWERPACK, OR APPROVED EQUAL. PROVIDE (6) POWER PACKS FOR ATTIC STOCK.
4. SLAVE RELAY PACK - WATTSTOPPER S120/277/347E-P, OR EQUAL.

DAYLIGHTING SEQUENCE OF OPERATION:

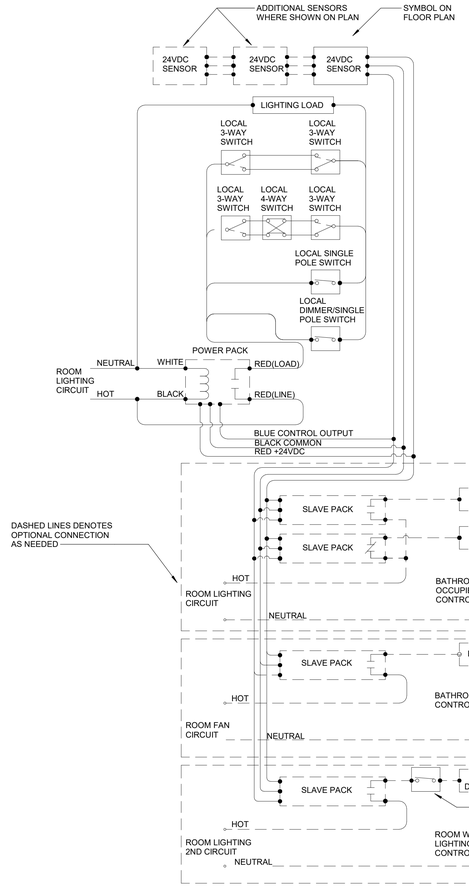
1. THE DAYLIGHTING SENSORS SHALL MEASURE THE TOTAL LIGHT LEVEL. FROM DAYLIGHT AND ELECTRIC LIGHT IN THE CONTROLLED. AS THE DAYLIGHT CONTRIBUTION INCREASES THE LIGHTS SHALL DIM DOWN. THE SENSORS SHALL CALCULATE THE REQUIRED LIGHT LEVEL FOR CURRENT DAYLIGHT CONTRIBUTION BASED ON TWO SETPOINTS. ONE SETPOINT SHALL BE THE TARGET LEVEL WHEN NO DAYLIGHT IS PRESENT (NIGHT SETPOINT) AND THE SECOND SETPOINT SHALL BE THE TARGET LEVEL WHEN SIGNIFICANT DAYLIGHT IS PRESENT (DAY SETPOINT).
2. THE DAYLIGHTING SYSTEM SHALL BE COMMISSIONED BY A FACTORY AUTHORIZED TECHNICIAN.
3. CONSULT FACTORY FOR OPTIMAL MOUNTING LOCATION OF DAYLIGHTING SENSOR.

5 TYPICAL DAYLIGHT WITH OCCUPANCY SENSOR WIRING DETAIL
NTS



EXTERIOR LIGHTING & SIGNAGE CONTROL EQUIPMENT :
1.CONTACTOR: DOUGLAS #DLP2-6R8D-SM OR EQUAL
2.TIME CLOCK: INTERMATIC #ET2145CP OR EQUAL
3.PHOTOCELL: INTERMATIC K4200 SERIES OR EQUAL

6 EXTERIOR LIGHTING CONTROL DETAIL
NTS



NOTE:

1. NO MORE THAN THREE SENSORS TO ONE POWER PACK
2. DASHED LINES INDICATE OPTIONAL POSSIBILITIES

TYPICAL SPECIFICATIONS:

1. CEILING MOUNTED OCCUPANCY SENSORS - WATTSTOPPER DT-355 SERIES LOW VOLTAGE, DUAL TECHNOLOGY CEILING SENSOR, OR APPROVED EQUAL
2. POWER PACK - WATTSTOPPER BZ50RC UNIVERSAL VOLTAGE POWER PACK,OR APPROVED EQUAL.
3. SLAVE RELAY PACK - WATTSTOPPER S120/277/347E-P, OR EQUAL.

RESTROOM OCCUPANCY SENSOR SEQUENCE OF OPERATION:

1. WHEN THE CEILING MOUNTED OCCUPANCY SENSOR DETECTS ROOM ENTRY THE LIGHTS AND EXHAUST FAN SHALL TURN ON.
2. THE SENSOR SHALL BE SET FOR 10 MINUTE OFF DELAY, SO FAN AND LIGHTS WILL STAY ON FOR 10 MINUTES WHEN THE SENSOR STOPS DETECTING OCCUPANCY.
3. THE LOCAL SWITCH AT THE DOOR SHALL MANUALLY TURN OFF THE LIGHTS ONLY, THE FAN SHALL RUN FOR THE PRESET 10 MINUTES

7 TYPICAL ROOM OCCUPANCY SENSOR WIRING SCHEMATIC
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PROJECT
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KEY PLAN

DRAWING TITLE
ELECTRICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E4.01

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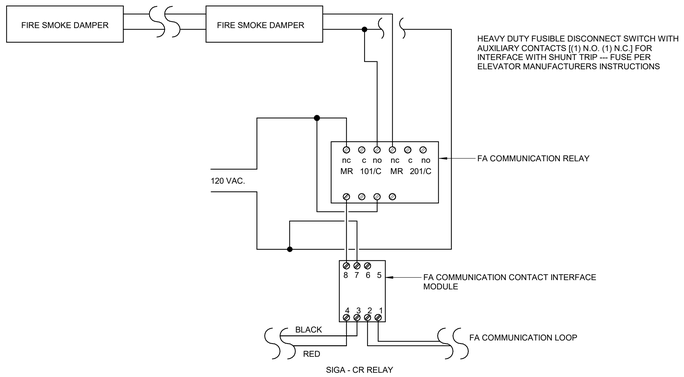
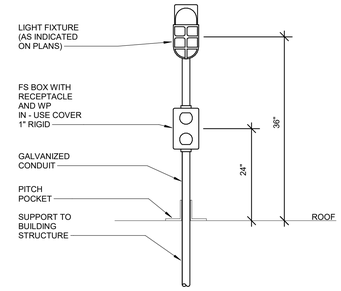
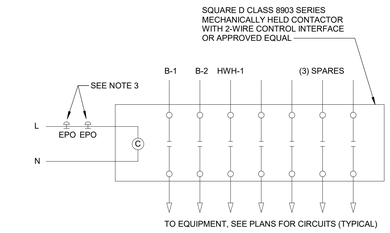


1 TYPICAL 120V FIRE/SMOKE DAMPER WIRING
NTS



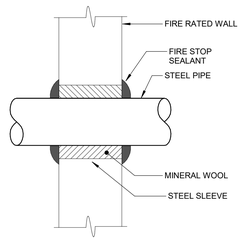
2 ROOF LIGHT FIXTURE AND RECEPTACLE - MOUNTING DETAIL
NTS

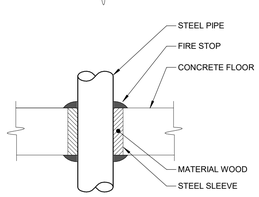


NOTES

1. PROVIDE CONTACTOR WITH QUANTITY OF POLES REQUIRED TO SHUT POWER DOWN TO EQUIPMENT LISTED PLUS (3) SPARE POLES. COORDINATE LOCATION IN MECHANICAL ROOM IN FIELD.
2. COORDINATE CONNECTIONS TO EQUIPMENT/CONTROL PANELS IN FIELD.
3. EPO TOGGLE SWITCHES AS SHOWN ON THE DRAWINGS.

3 BOILER ROOM EPO DETAIL
NTS

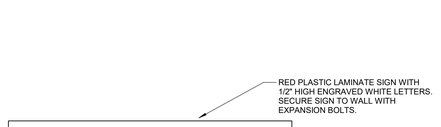


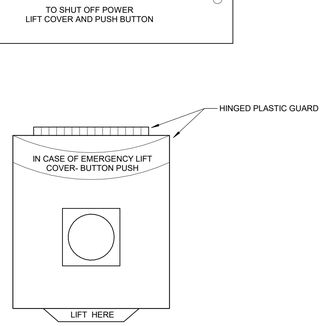


NOTES:

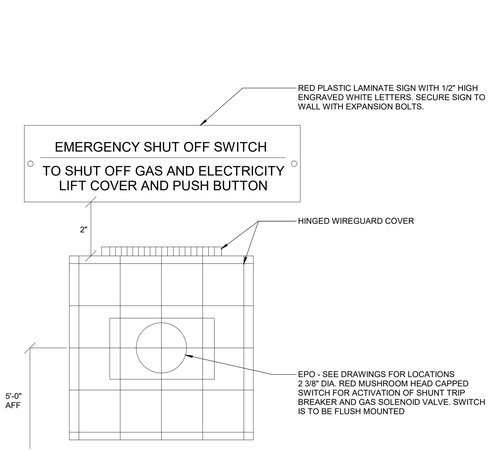
1. 4" STEEL PIPE MAXIMUM (REFER TO FLOOR PLANS FOR SIZE REQUIREMENTS).
2. 6" DIA. OPENING (MAX) WITH STEEL SLEEVE.
3. SLEEVE: 4" OF 4PCF MINERAL WOOL IN OPENING.
4. APPLY FIRE STOP SEALANT THICKNESS MANUFACTURE'S INSTALLATION INSTRUCTIONS. APPLY SEALANT OVER MINERAL WOOL ON EACH SIDE OF PENETRATION.

4 CONDUIT/SLEEVE WALL & FLOOR PENETRATION DETAILS
NTS

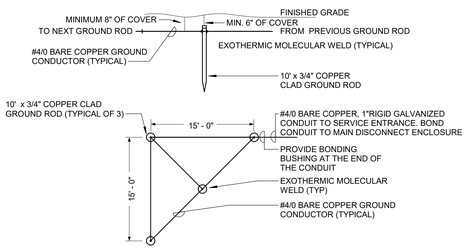




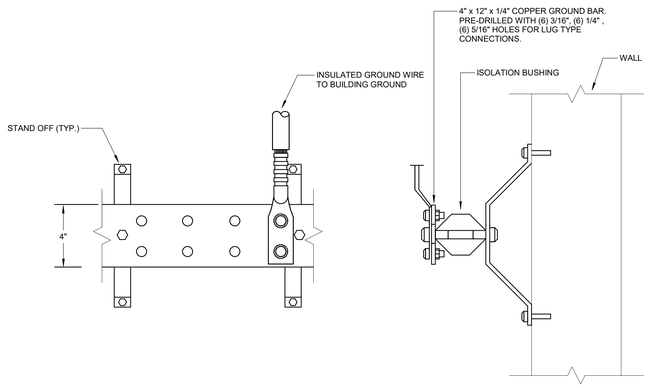
5 EMERGENCEY SHUT-OFF SWITCH WITH PLASTIC GUARD DETAIL
NTS



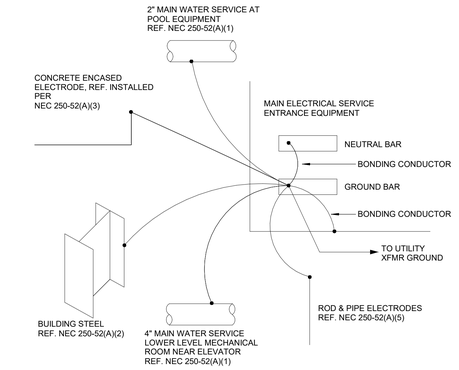
6 EMERGENCY SHUT-OFF SWITCH WITH WIRE GUARD DETAIL
12" = 1'-0"



7 GROUND ROD POISE DETAIL
NTS



8 GROUNDING BUS BAR DETAIL
NTS



NOTES:

A. REFER TO GROUNDING ELECTRODE TABLE FOR CONNECTIONS REQUIRED AS RELATED TO THIS PROJECT.

B. ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.

GROUNDING ELECTRODE CONNECTIONS AVAILABILITY AND REQUIREMENTS FOR THIS PROJECT

NEC REFERENCE	AVAIL. YES	REQ'D YES	NOTES
250-52(A)(1)	X	X	1
250-52(A)(2)	X	X	1
250-52(A)(3)	X	X	1,4
250-52(A)(4)	X	X	2
250-52(A)(5)	X	X	2
250-52(A)(6)	X	X	2
250-52(A)(7)	X		2

GROUNDING ELECTRODE CONDUCTOR SIZE:3/0 AWG COPPER

NOTES:

1. NEC ARTICLE 250-52 INDICATES A PRIORITY LIST OF GROUNDING ELECTRODE CONNECTIONS WITH (1) BEING THE HIGHEST PRIORITY AND (7) BEING THE LOWEST.
2. CONNECTION TO ITEMS MADE UNDER ARTICLE 250-52(A)(4),(5),(6) & (7) SHALL NOT SUBSTITUTE CONNECTIONS TO 250-52 (1), (2), OR (3), UNLESS NONE OF THESE SYSTEMS ARE AVAILABLE.
3. GROUNDING ELECTRODE SYSTEM INSTALLATION SHALL COMPLY WITH NEC ARTICLE 250.53.
4. REFER TO NEC ARTICLE 250.50, EXCEPTION.

9 GROUNDING ELECTRODE SYSTEM DETAIL
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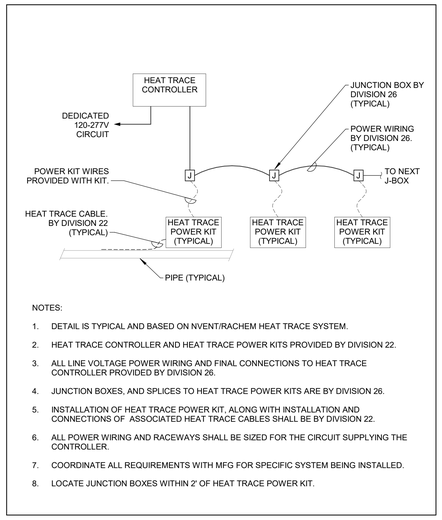
E4.02



NOTES:

1. DETAIL IS TYPICAL AND BASED ON NVENT/RACHEM HEAT TRACE SYSTEM.
2. HEAT TRACE CONTROLLER AND HEAT TRACE POWER KITS PROVIDED BY DIVISION 22.
3. ALL LINE VOLTAGE POWER WIRING AND FINAL CONNECTIONS TO HEAT TRACE CONTROLLER PROVIDED BY DIVISION 26.
4. JUNCTION BOXES, AND SPLICES TO HEAT TRACE POWER KITS ARE BY DIVISION 26.
5. INSTALLATION OF HEAT TRACE POWER KIT, ALONG WITH INSTALLATION AND CONNECTIONS OF ASSOCIATED HEAT TRACE CABLES SHALL BE BY DIVISION 22.
6. ALL POWER WIRING AND RACEWAYS SHALL BE SIZED FOR THE CIRCUIT SUPPLYING THE CONTROLLER.
7. COORDINATE ALL REQUIREMENTS WITH MFG FOR SPECIFIC SYSTEM BEING INSTALLED.
8. LOCATE JUNCTION BOXES WITHIN 2' OF HEAT TRACE POWER KIT.

1 TYPICAL HEAT TRACE WIRING DETAIL
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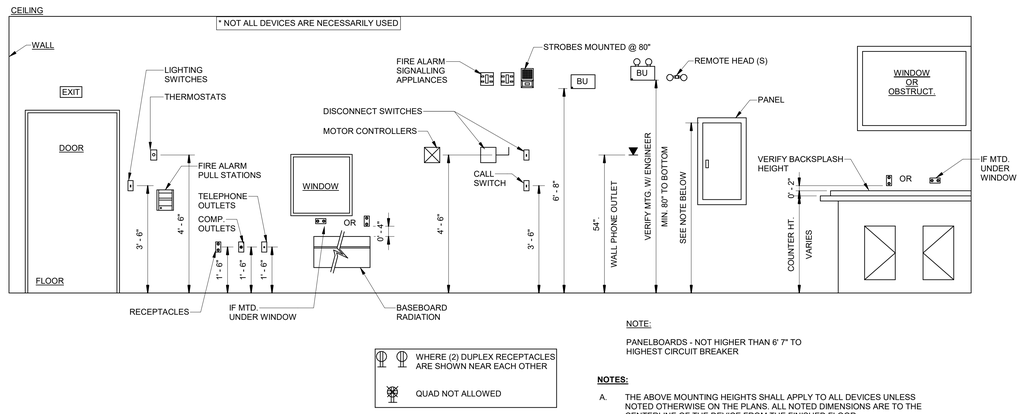


WHERE (2) DUPLEX RECEPTACLES ARE SHOWN NEAR EACH OTHER

QUAD NOT ALLOWED

NOTE:

PANELBOARDS - NOT HIGHER THAN 6' 7" TO HIGHEST CIRCUIT BREAKER

NOTES:

A. THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR.

B WHERE EXISTING OR SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE E.C. SHALL VERIFY HEIGHTS ON SITE WITH ARCHITECT.

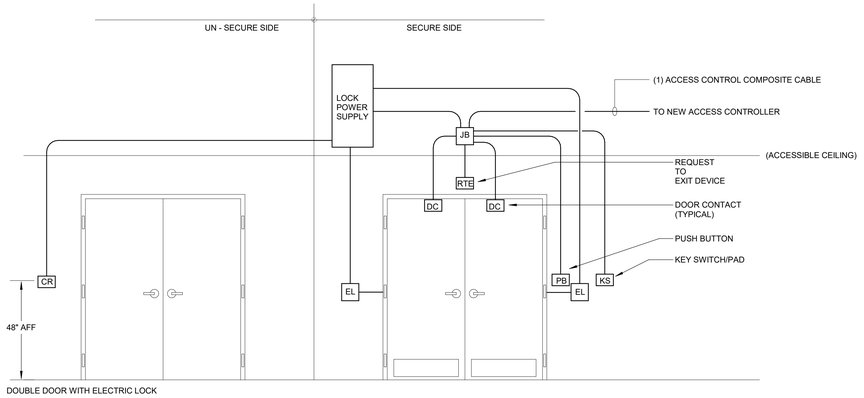
C ALL DEVICES IN FINISHED AREAS SHALL BE INSTALLED IN FLUSH DEVICE BOXES NO SURFACE BOXES SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

D E.C. SHALL VERIFY FINAL WORKBENCH, COUNTER, CABINET OR VENITY HEIGHTS INCLUDING BACKSPLASH, ON SITE WITH G.C. PRIOR TO INSTALLATION OF BOXES, ABOVE COUNTER DEVICES NOTED BY (*)

E INSTALL RECEPTACLES HORIZONTALLY, 4" ABOVE BASEBOARD RADIATION. REFER TO M- SERIES (DIV. 15) SHEETS FOR RADIATION LAYOUT

F WHERE SHOWN BACK TO BACK, OFFSET BOXES IN STUDBAYS.

2 TYPICAL DEVICE MOUNTING HEIGHTS ELEVATION
NTS



3 TYPICAL SECURITY DOUBLE DOOR ACCESS CONTROL ELECTRIC LOCK MOUNTING DETAILS
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ELECTRICAL DETAILS

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PROJ. NO.	220103
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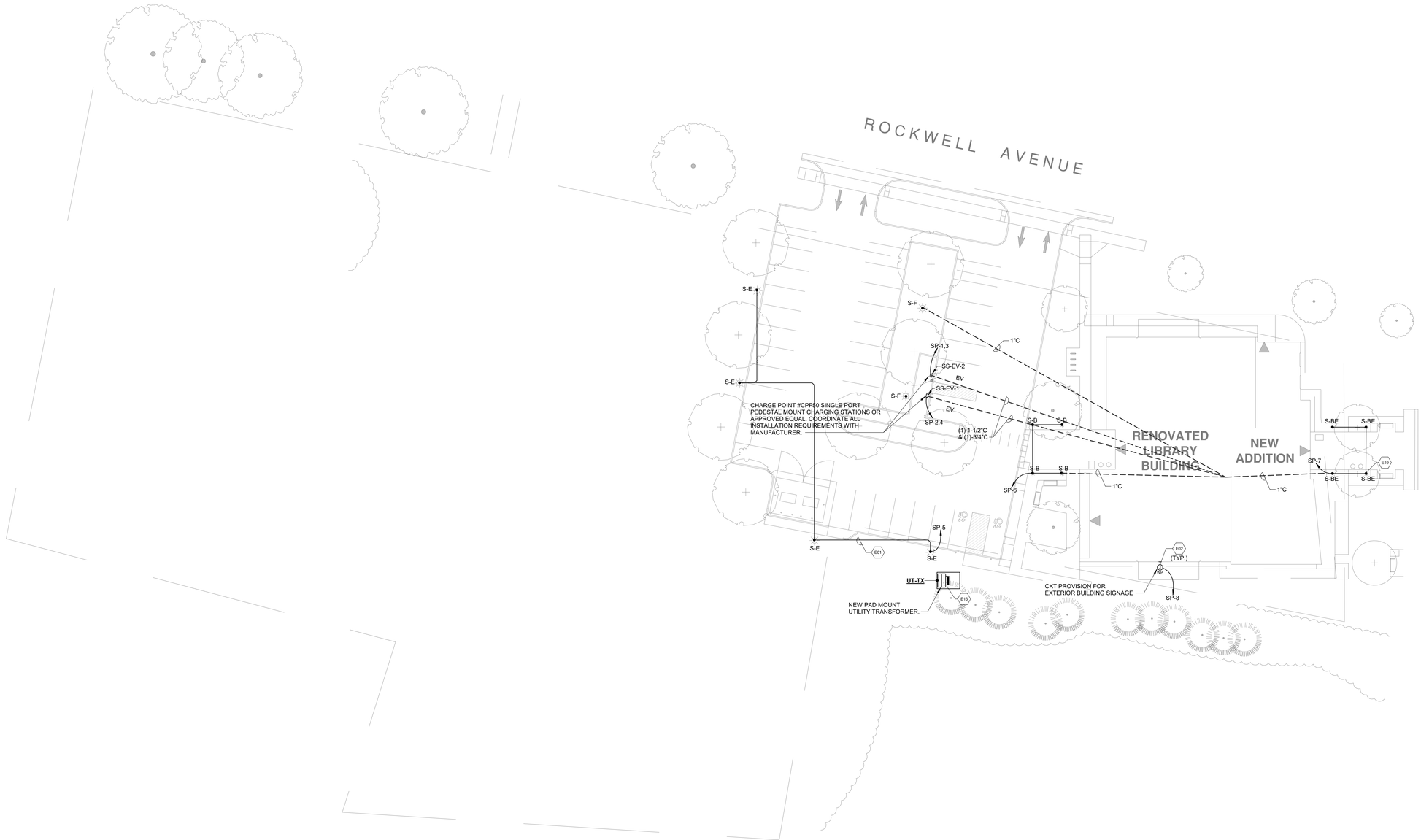

1 SITE ELECTRICAL PLAN
1" = 20'-0"

ELECTRICAL KEYNOTES

E01 REFER TO EXTERIOR LIGHTING CONTROL DETAIL ON SHEET #E4.01 FOR SITE & BUILDING MOUNTED EXTERIOR LIGHTS.

E02 CONTRACTOR TO COORDINATE THE EXTERIOR SIGNAGE ELECTRICAL REQUIREMENTS WITH SIGNAGE VENDOR AND SHALL INCLUDE ASSOCIATED ELECTRICAL WORK IN THE BID PACKAGE.

E16 CONTRACTOR SHALL WIRE THE FOLLOWING LIGHT FIXTURE TYPE #H3E-OUTDOOR DOWNLIGHT VIA 25VA MINI-INVERTERS LOCATED IN ELECTRICAL ROOM.

E19 CONTRACTOR SHALL WIRE THE FOLLOWING LIGHT FIXTURE TYPES #S-B- OUTDOOR BOLLARD LIGHT @ EAST VESTIBULE VIA 50VA MINI-INVERTERS LOCATED IN ELECTRICAL ROOM.

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SITE ELECTRICAL PLAN

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SCALE	1" = 20'-0"
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ES1.01

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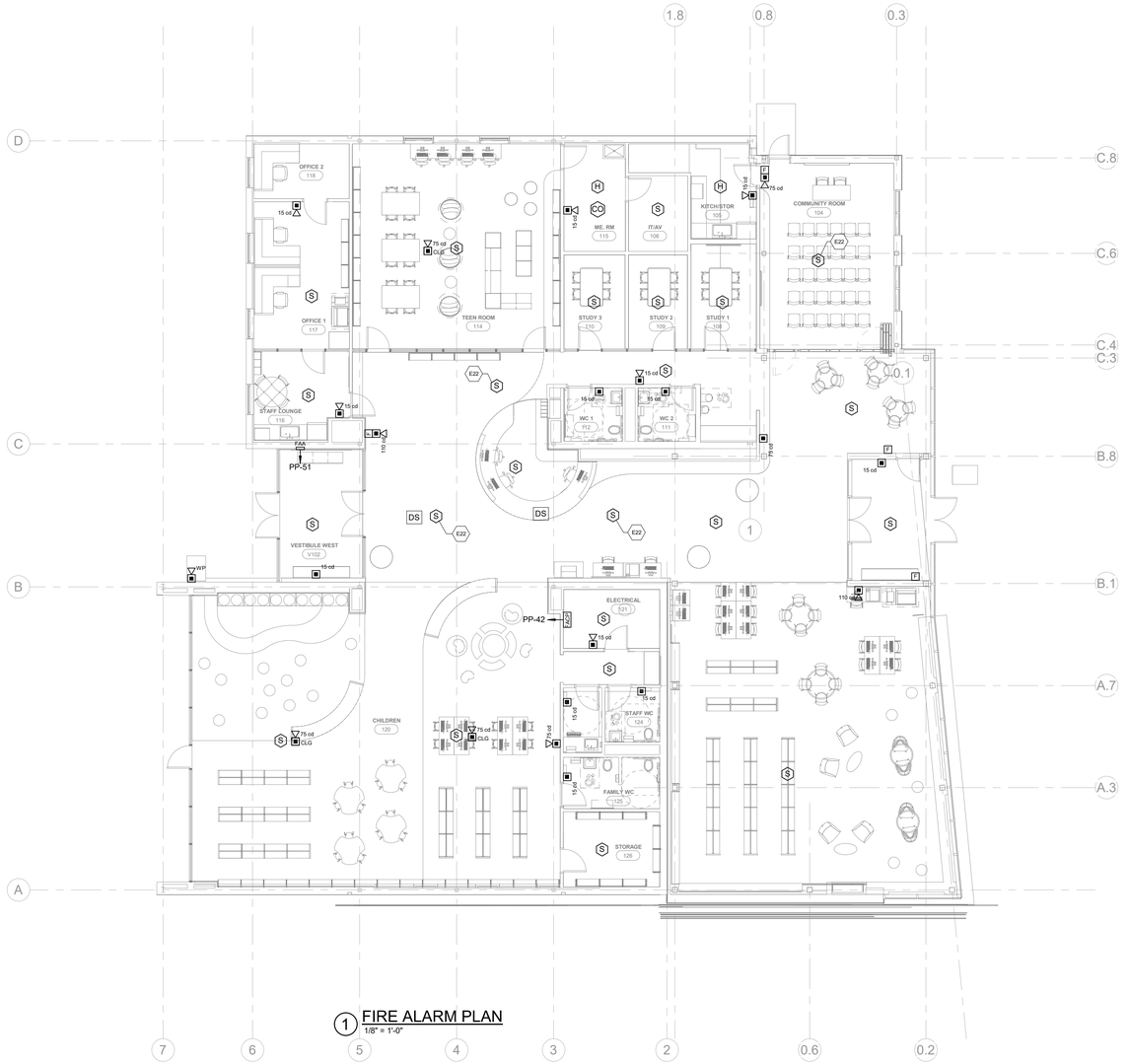
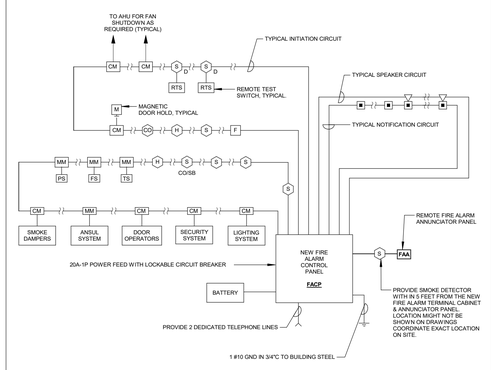
ELECTRICAL KEYNOTES

E22 CONTRACTOR SHALL INSTALL THE SMOKE DETECTORS ABOVE THE OPEN WOODEN SLAT CEILINGS. ARCHITECT TO PROVIDE ACCESS PANELS AS REQUIRED IN THESE AREAS.



1 FIRE ALARM PLAN
1/8" = 1'-0"



GENERAL FIRE ALARM SYSTEM NOTES:

1. FOR ADDITIONAL INFORMATION REFER TO SYMBOL LEGEND, ABBREVIATIONS LIST, AND ALL NOTES AND SPECIFICATIONS.
2. COORDINATE ALL REQUIREMENTS WITH LOCAL FIRE DEPARTMENT
3. PROVIDE ALL FIRE ALARM DEVICE WIRING PER MANUFACTURER'S SPECIFICATIONS.
4. ALL WIRING SHALL BE TYPE CLASS A.
5. PROVIDE EXTRA POWER SUPPLIES AND TRANSPONDERS (WIRED TO NEW DEDICATED 120V CIRCUITS) WHERE REQUIRED BY MANUFACTURER.
6. TYPICAL DEVICES SHOWN IN RISER. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
7. COORDINATE INTERCONNECTION WITH EXISTING BUILDING FIRE ALARM SYSTEM, ALL FIRE ALARM WORK, WITH BUILDING OWNER'S FIRE ALARM VENDOR.
8. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS AND QUANTITIES OF FLOW AND TAMPER SWITCHES.
9. CARBON MONOXIDE DETECTORS SHALL EMIT A SUPERVISORY SIGNAL TO THE FACP WHEN ACTIVATED.
10. CONTRACTOR IS RESPONSIBLE FOR SIZING BATTERY CABINET CAPABLE OF SUPPORTING THE ENTIRE PROJECT FIRE ALARM SYSTEM IN THE EVENT OF A POWER FAILURE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS AND SMOKE DAMPERS. REMOTE TEST SWITCHES SHALL BE FLUSHED IN CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR (OR IN CLOSEST DROPPED CEILING TO DETECTOR), UNLESS OTHERWISE NOTED.
12. UNLESS OTHERWISE NOTED IN SPECIFICATIONS, ALL WIRING SHALL BE IN CONDUIT, OR MC CABLE WHERE PERMITTED.
13. LOCATE ONE SMOKE DETECTOR ON CEILING ABOVE EACH FIRE ALARM REMOTE PANEL CABINET.
14. LOCATE BATTERY CABINET IN SAME ROOM AS THE PANEL IT IS CONNECTED TO.
15. PROVIDE ISOLATION MODULES AFTER EVERY 50TH DEVICE, AND TO ISOLATE PROJECT DEVICES FROM EXISTING BUILDING DEVICES.
16. ALL COMPONENTS SHALL BE FULLY COMPATIBLE WITH EXISTING BUILDING FIRE ALARM SYSTEM. PROVIDE ALL UPGRADES AND PROGRAMMING REQUIRED FOR COMPLETE COMPATIBILITY AND PROPER OPERATION.
17. THIS DIAGRAM IS INTENDED TO SHOW THE GENERAL RELATIONSHIP OF DEVICES AND CONTROL PANEL IS NOT INTENDED TO SHOW ALL DEVICES. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATION OF ALL DEVICES.
18. DIVISION 26 CONTRACTOR TO PROVIDE AND SUPPLY ALL DUCT MOUNTED SMOKE DETECTORS TO THE DIVISION 23 CONTRACTOR FOR INSTALLATION IN THE DUCT. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING OF DUCT DETECTORS.

2 FIRE ALARM RISER DIAGRAM (TYPICAL)
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FIRE ALARM PLAN

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ABBREVIATIONS

A	GENERAL SERVICE COMPRESSED AIR
A/AMP	AMPERE
AC	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT(S)
AD	ACCESS DOORS
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AMB	AMBIENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
AS	AIR SEPARATOR
AV	ACID VENT (CHEMICAL)
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS/HOUR
C	CONNDESATE
C/B	CIRCUIT BREAKER
CER/CEG	CEILING EXHAUST REG./GRILLE
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMPS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	CEILING
CLPS	CLEAN LOW PRESSURE STEAM
CMPS	CLEAN MEDIUM PRESSURE STEAM
CMV	CEILING MOUNTED VENTILATOR
CO	CLEANOUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CV	COEFFICIENT, VALVE FLOW
CW	COLD WATER
D	DEPTH
dB	DECIBEL
DC	DIRECT CURRENT
DCV	DOUBLE CHECK VALVE
DE	DEIONIZED PROCESS WATER
DEG or °	DEGREE
DI	DISTILLED WATER
DIA	DIAMETER
DN	DOWN
DWBP	DOMESTIC WATER BOOSTER PUMP
DWG	DRAWING
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRICAL HEATING CABLES
ELEC	ELECTRICAL
ELEV	ELEVATOR
ETP	ELECTRIC TRAP PRIMER
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXP	EXPANSION
F	FAHRENHEIT
FA	FIRE ALARM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FM	FLOW METER
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT	FOOR OR FEET
FVC	FIRE VALVE CABINET
G	GAS
GA	GAUGE
GAL	GALLONS
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRU	GREASE RECOVERY UNIT
GW	GREASE WASTE
H	HEIGHT
HD	HEAD
HP	HORSEPOWER
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HT	HEAT
HTR	HEATER
HUM	HUMIDIFIER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN

ABBREVIATIONS

HWRP	HOT WATER RETURN PUMP
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGE
ID	INSIDE DIAMETER
IEF	IN-LINE EXHAUST FAN
IN	INCHES
IN WG	INCHES OF WATER, GAUGE (PRESSURE)
IW	INDIRECT WASTE
JP	JOCKEY PUMP
KEF	KITCHEN EXHAUST FAN
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KITCHEN WATER HEATER
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LG	LABORATORY GAS
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
MA	MEDICAL COMPRESSED AIR
MAGP	MASTER ALARM GAS PANEL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
MUAU	MAKE UP AIR UNIT
MV	MEDICAL VACUUM
N2	NITROGEN
N2O	NITROUS OXIDE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAIN LEADER
P	POLE
PH / Ø	PHASE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RD	ROOF DRAIN
REF	ROOF EXHAUST FAN
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPD/RPZ	REDUCED PRESSURE DEVICE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
RV	RADON VENT
RL	RAIN LEADER
S	SOIL
SAC	SHOP AIR COMPRESSOR
SCP	STEAM CONDENSATE PUMP
SEP	SEWAGE EJECTOR PUMP
SP	STATIC PRESSURE
SP	SUMP PUMP
SPEC	SPECIFICATION
SQ	SQUARE
SS	SOIL/STACK
ST	STORM
STD	STANDARD
SWH	STEAM WATER HEATER
TAG	IDENTIFICATION OF EQUIPMENT
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
TYP	TYPICAL
UH	UNIT HEATER
UR	URINAL
V	VENT
VAC	VACUUM
VEL	VELOCITY
VFC	VARIABLE FREQUENCY CONTROLLER
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WG	WIREGUARD
WH	WALL HYDRANT (HOSE BIBB)
WHA	WATER HAMMER ARRESTER
WI	WIDTH
WP	WEATHERPROOF
WTG	WALL TRANSFER GRILLE
WV	WASTE AND VENT COMBINATION

PLUMBING SYMBOLS

- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATING
- VENT
- ORL — OVERFLOW RAIN LEADER
- ST — STORM DRAIN
- G — GAS PIPE
- Ⓜ — WATER METER ASSEMBLY
- G — GAS METER ASSEMBLY

MAXIMUM HOT WATER ROUGH IN LENGTH

NOMINAL PIPE SIZE	MAXIMUM PIPE LENGTH FROM END OF HEAT TRACE OR RECIRCULATED MAIN TO FIXTURE STOP (FEET)
PUBLIC LAVATORIES	
1/2"	2
3/4" AND LARGER	0.5
OTHER FIXTURES AND APPLIANCES	
1/2"	43
3/4"	21
1"	16
1-1/4"	8
1-1/2"	6
2" AND LARGER	4
IECC TABLE C404.5.1	

FITTINGS AND VALVES

- BALL VALVE
- DIRECTION OF FLUID FLOW
- GATE VALVE
- BUTTERFLY VALVE
- CALIBRATED BALANCING VALVE
- GAS COCK
- CHECK VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- SOLENOID VALVE
- DRAIN VALVE WITH HOSE END, CAP & CHAIN OR HOSE BIBB
- WALL HYDRANT
- TAKEOFF FROM TOP OF MAIN PIPE
- TAKEOFF FROM BOTTOM OF MAIN PIPE
- UNION
- PIPE ELBOW UP OR PIPE TEE UP
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- WALL CLEANOUT OR BLIND FLANGE
- FLOOR CLEANOUT
- "P" TRAP
- STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN
- BACKFLOW PREVENTER (2 1/2" AND LARGER)
- PUMP
- WATER HAMMER ARRESTOR
- PIPE CAP OR CAPPED END OF PIPE
- AIR VENT
- PRESSURE RELIEF SAFETY VALVE
- AQUASTAT
- TEMPERATURE SENSOR WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
- THERMOMETER WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
- PRESSURE GAUGE

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED PLUMBING SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS, OFFSETS, ETC. AS REQUIRED TO INSTALL PIPING, EQUIPMENT, MAINTAINING PROPER CLEARANCES AND TO AVOID ANY CONFLICTS WITH OTHER TRADES, AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE, AND VENT PIPING SYSTEMS. REFER TO THE PLUMBING SCHEDULES FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE.
11. PROVIDE PROPER PIPING SYSTEM IDENTIFICATION LABELS, SLOPES FOR DRAIN PIPING, CLEANOUTS, HANGERS, ETC. IN ACCORDANCE WITH THE PLUMBING CODE.
12. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES OR EQUIPMENT. ALL SUCH EQUIPMENT AND EQUIPMENT COLORS AND FINISHES SHALL BE COORDINATED WITH THE ARCHITECT. MOUNTING HEIGHTS SHALL BE APPROVED BY THE ARCHITECT.
13. INSTALL WATER HAMMER ARRESTORS (WHA) AT ALL QUICK CLOSING VALVES (FLUSH VALVES, SOLENOID VALVES, ETC.); SIZE SHALL BE BASED ON FIXTURE UNITS PER PDI STANDARDS AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.
14. ALL PIPING, DRAINS, STRAINERS, FAUCETS, FAUCET AERATORS, FILTERS, ETC. SHALL BE THOROUGHLY CLEANED AND FLUSHED IMMEDIATELY BEFORE PROJECT COMPLETION. PROVIDE CERTIFICATION ON CONTRACTOR'S LETTER HEAD THAT THIS WORK HAS BEEN COMPLETED.
15. DOMESTIC WATER DROPS AND RISERS INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF INSULATION AND THE LOCATION SHALL BE MADE INFILTRATION FREE.
16. BEFORE INSTALLATION, COORDINATE THE WORK WITH OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, FACTORY START UPS AND INSTALLATION OF FIELD DEVICES.
17. PIPE ALL CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT COOLING COILS, BY GRAVITY (INTERIOR AIR HANDLING UNITS, FAN COIL UNITS, AC UNITS, ETC.) TO FLOOR DRAINS, JANITOR'S SINKS OR OTHER APPROVED LOCATION THROUGH AN AIR GAP. EACH CONDENSATE DRAIN SHALL BE TRAPPED AT THE EQUIPMENT DRAIN OUTLET, REFER TO TRAP DETAILS ON DRAWINGS. COORDINATE EXACT LOCATION OF EQUIPMENT WITH THE HVAC CONTRACTOR AND ADJUST AS NECESSARY.
18. INSULATE ALL WASTE ABOVE SLAB RECEIVING CONDENSATE FROM EQUIPMENT INCLUDING "P" TRAPS AND BRANCH WASTE PIPING
19. ALL INDIRECT WASTE DRAINS SHALL BE PIPED TO FLOOR DRAINS, FUNNELS OR FIXED AIR GAP FITTINGS, THROUGH AIR GAP OR TO A SINK DRAIN TAILPIECE.
20. INSTALL TRAP PRIMERS OR TRAP GUARD SEALER FOR FLOOR DRAINS, HUB DRAINS AND FIXED AIR GAP FITTINGS, WHERE TRAP IS SUBJECT TO LOSS OF SEAL BY EVAPORATION, CONNECT TRAP PRIMER TO COLD WATER LINE. PROVIDE ISOLATION VALVES AND EXTEND SLOPED PRIMING LINE TO DRAIN TRAPS.
21. COORDINATE ALL PLUMBING EQUIPMENT REQUIRING POWER, FOR EXACT LOCATION AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
22. ALL EXTERIOR EXPOSED GAS PIPING SHALL BE PRIMED AND PAINTED.
23. FLOOR MOUNTED PLUMBING EQUIPMENT SHALL BE INSTALLED ON A 6" CONCRETE HOUSE-KEEPING PAD. COORDINATE SIZE AND FINAL LOCATION OF ALL CONCRETE PADS WITH THE STRUCTURAL ENGINEER. PADS SHALL BE MINIMUM 6" LARGER THAN THE EQUIPMENT IN BOTH HORIZONTAL DIRECTIONS.
24. COORDINATE EXACT LOCATION OF PLUMBING SERVICES ENTERING THE BUILDING WITH THE SITE CONTRACTOR AND UTILITY DRAWINGS PRIOR TO INSTALLATION. COORDINATE ALL FOUNDATION WALL PENETRATIONS AND INVERT ELEVATIONS WITH THE GENERAL CONTRACTOR AND/OR CONSTRUCTION MANAGER BEFORE COMMENCING WORK.
25. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.
26. PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH THE CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT OF THE FINDINGS.

PLUMBING DEMOLITION GENERAL NOTES

1. BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS, CONNECTIONS AND DISRUPTIONS EFFECTING OTHER TRADES (MECHANICAL AND ELECTRICAL). INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY.
3. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
4. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
5. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE SYSTEM.
6. THE LOCATION OF EXISTING PLUMBING SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PIPING, PLUMBING FIXTURES, ETC. TO BE REMOVED AND ADJUST AS NECESSARY.
7. ALL EQUIPMENT, PLUMBING FIXTURES AND ASSOCIATED PIPING INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS, UP TO NEAREST EXISTING ACTIVE MAIN OR BRANCH LINE AND CAPPED AS CLOSE TO THE ACTIVE LINE AS POSSIBLE. NO EQUIPMENT, PIPING, OR CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
8. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY PIPING OR CONDUIT WHICH MUST REMAIN ACTIVE, HE SHALL IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
9. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE PERMITTED.
10. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
11. ANY UNDERGROUND PIPING CALLED FOR TO BE ABANDONED IN PLACE SHALL BE DISCONNECTED FROM ACTIVE MAINS, DRAINED AND CAPPED AT BOTH ENDS.
12. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND INVERT ELEVATION OF EXISTING BURIED SANITARY, WASTE OR STORM PIPING PRIOR TO ANY EXCAVATION FOR NEW PIPING CONNECTION AND SHALL NOTIFY ENGINEER OF ANY PROBLEMS.
13. EXISTING PIPING SERVING PLUMBING FIXTURES OR OTHER EQUIPMENT INDICATED TO REMAIN, BUT ARE IN CONFLICT WITH NEW EQUIPMENT INSTALLATION, SHALL BE REMOVED AND REROUTED AS NECESSARY TO ACCOMMODATE THE NEW SYSTEM INSTALLATION
14. THE CONTRACTOR SHALL OBTAIN EXISTING PLUMBING DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK.

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TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

PLUMBING GENERAL INFORMATION

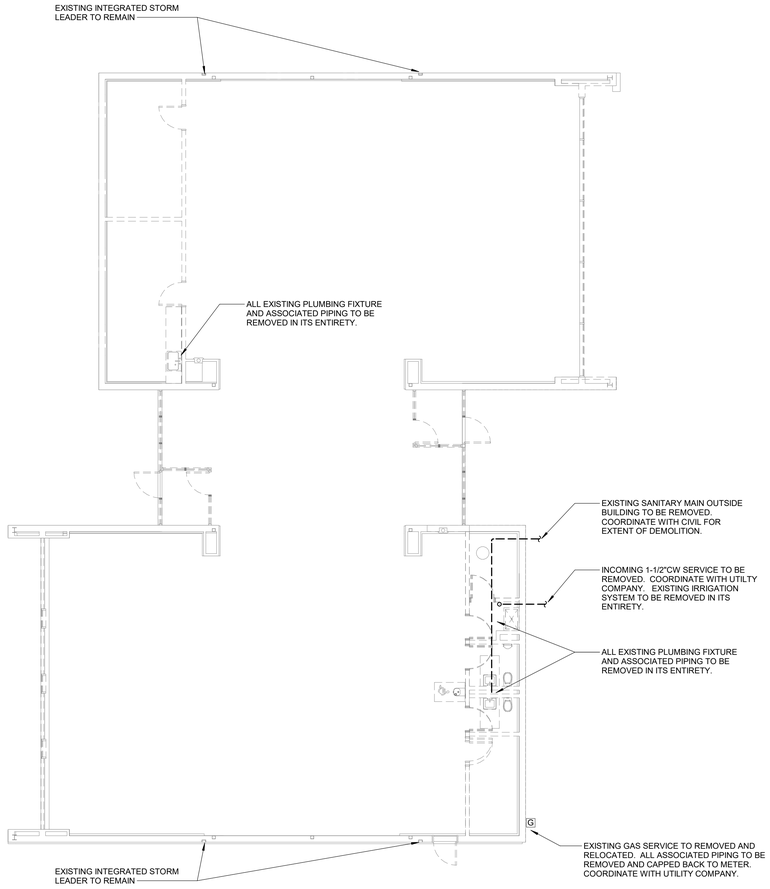
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/06/2023
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

P0.01

2/9/2023 12:52:06 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt



1 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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DRAWING TITLE

FIRST FLOOR PLUMBING DEMOLITION PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

PD1.01

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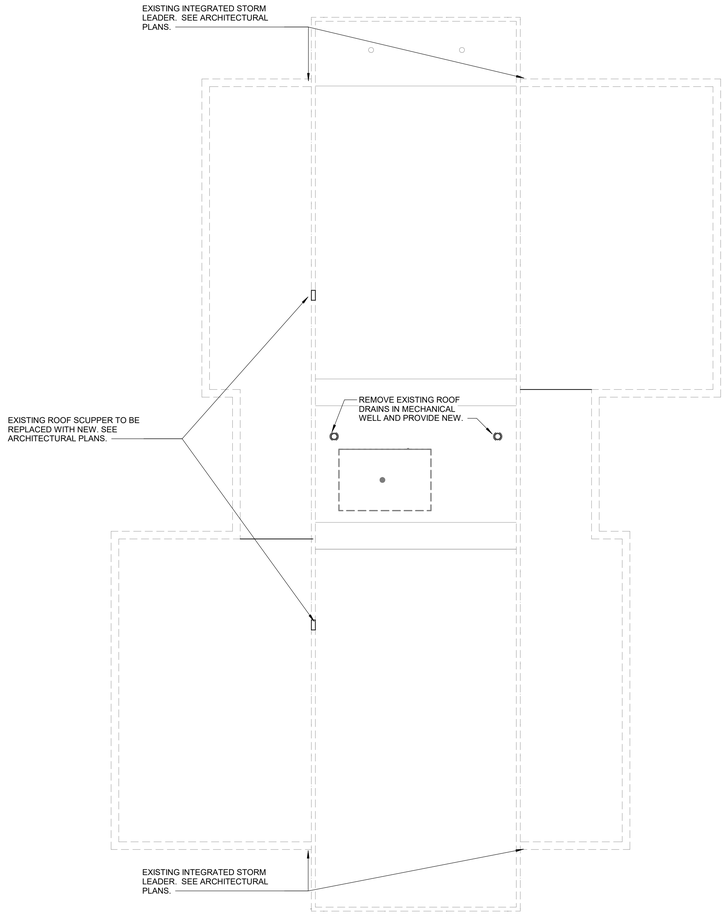

1 ROOF PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

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TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

RZ Design Associates, Inc.
MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING
750 OLD MAIN STREET
SUITE 202
ROCKY HILL, CT 06067
P: (860) 436-4336
F: (860) 436-4450
www.rzdesignassociates.com

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

ROOF PLUMBING DEMOLITION PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

PD1.02

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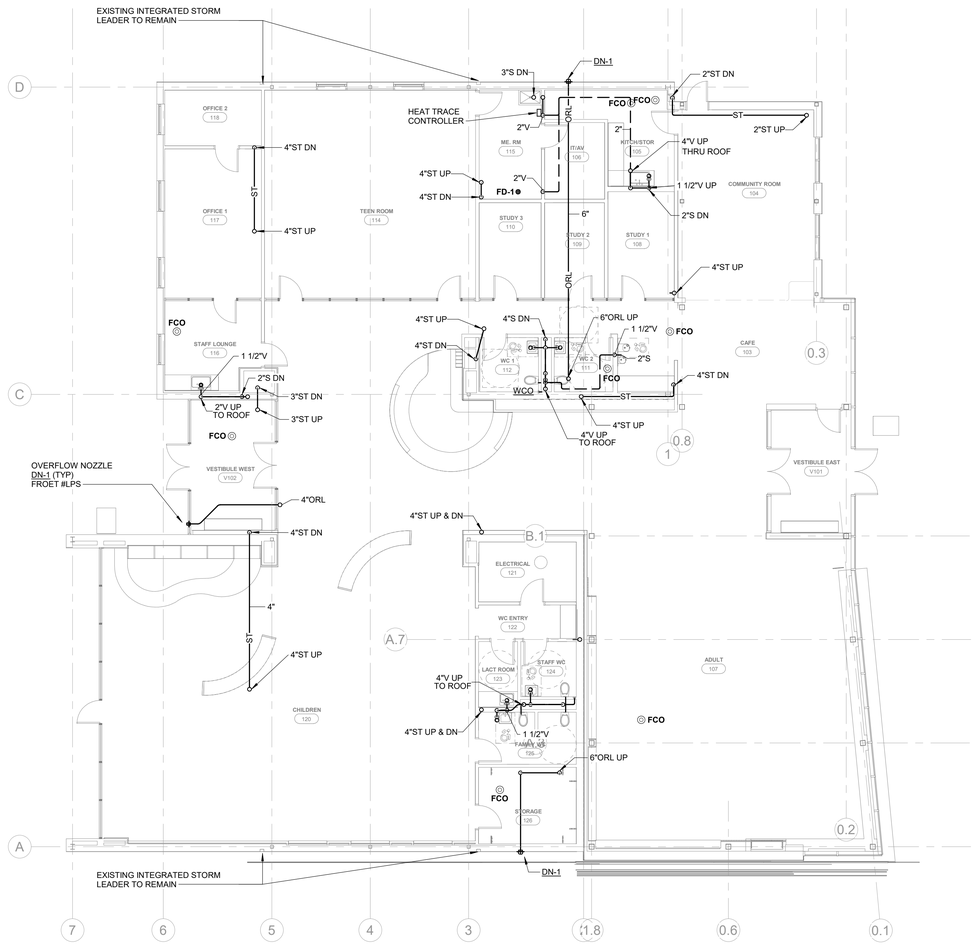
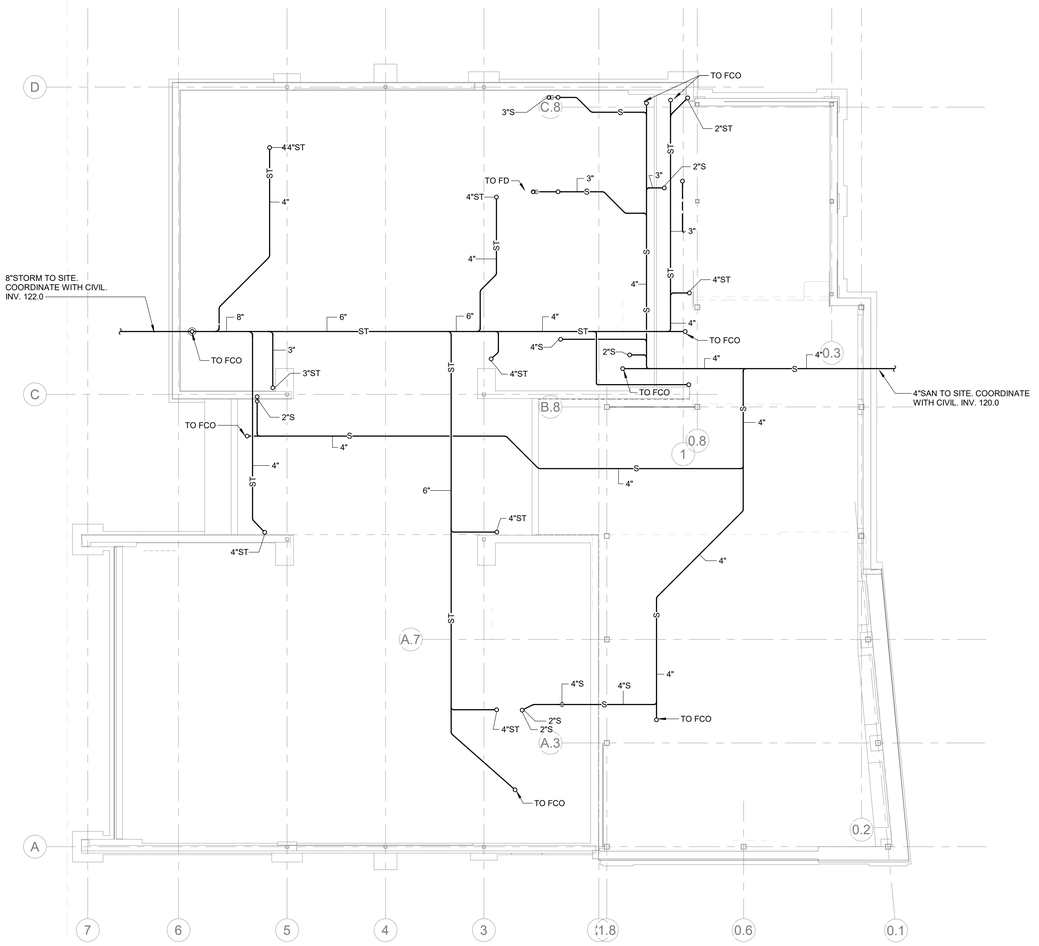


1 FIRST FLOOR DRAINAGE PLAN
1/8" = 1'-0"



2 PLUMBING UNDERSLAB PLAN
1/8" = 1'-0"

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BLOOMFIELD PUBLIC LIBRARY
McMAHON WINTONBURY LIBRARY ADDITION & RENOVATIONS

1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
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KEY PLAN

DRAWING TITLE
FIRST FLOOR DRAINAGE PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/06/2023
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

P1.01

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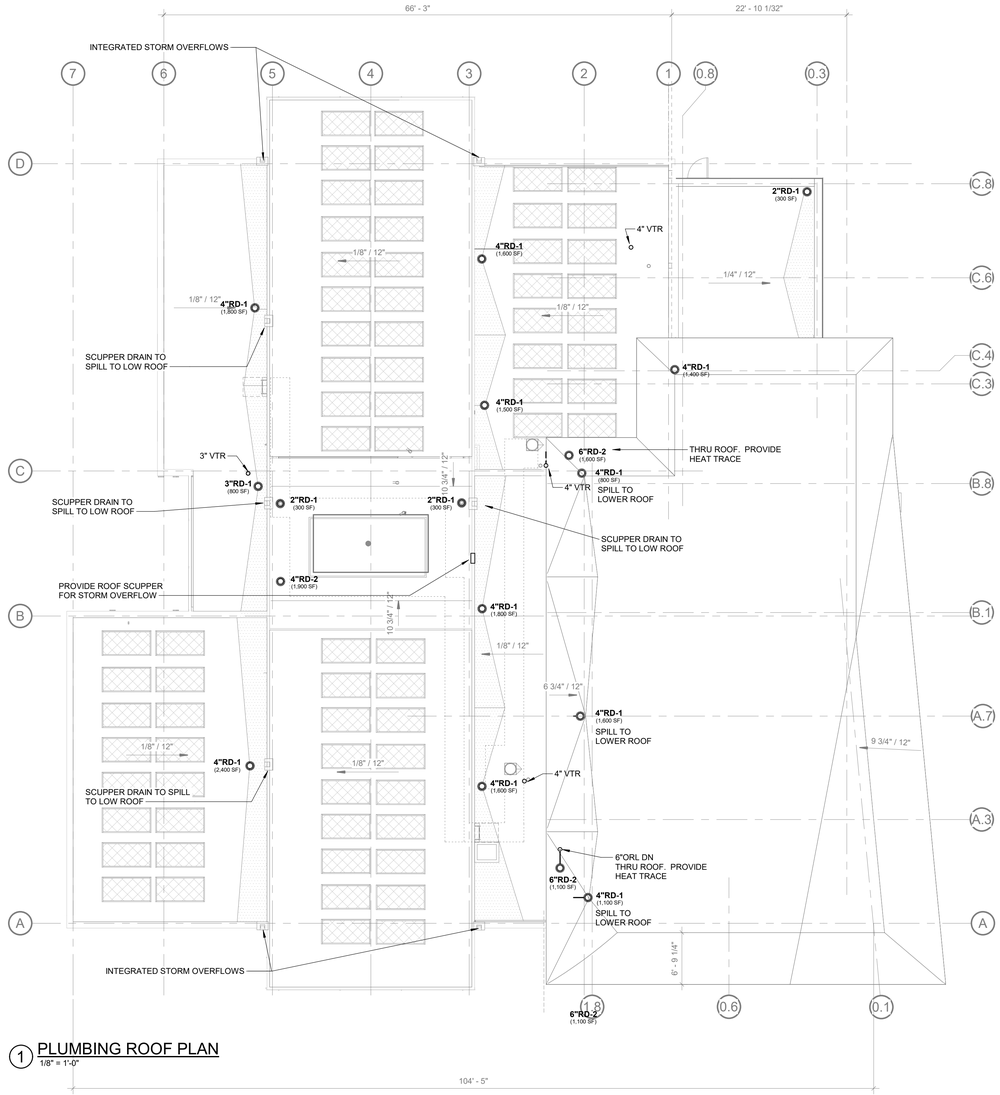

1 PLUMBING ROOF PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE

PLUMBING ROOF PLAN

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SCALE	1/8" = 1'-0"
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ISSUE DATES

NO.	DATE	PURPOSE

P1.02

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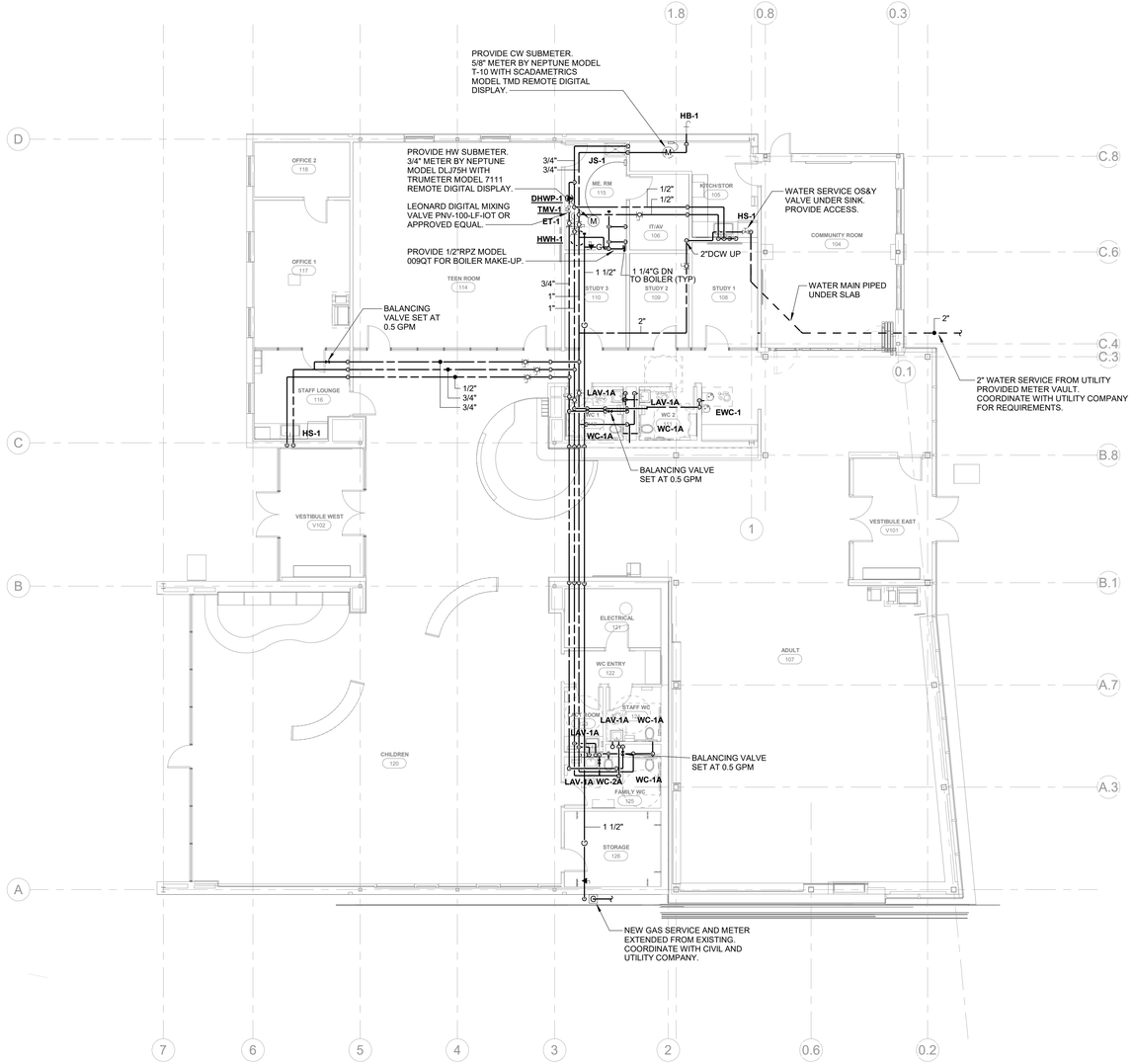

1 FIRST FLOOR PLUMBING SUPPLY PLAN
1/8" = 1'-0"

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PROJECT

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KEY PLAN

DRAWING TITLE

FIRST FLOOR PLUMBING SUPPLY PLAN

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SCALE	1/8" = 1'-0"
DATE	02/06/2023
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P2.01

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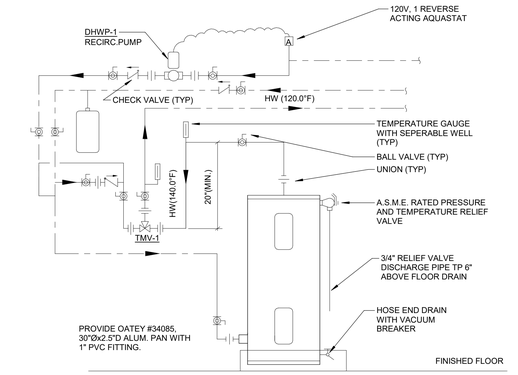
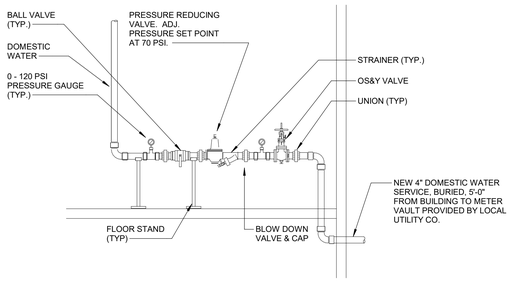
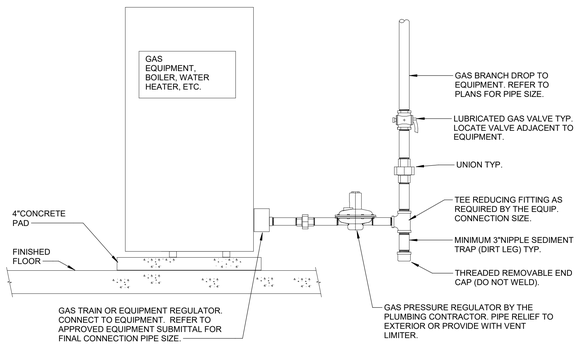


1 ELECTRIC WATER HEATER PIPING DIAGRAM - HWH-1
12" = 1'-0"

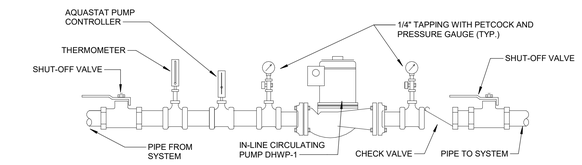


5 DOMESTIC WATER SERVICE PIPING DIAGRAM
12" = 1'-0"

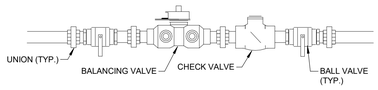
NOTES:
1. ALL NEW GAS PIPING SHALL BE PAINTED WITH PRIMER AND (2) COATS OF YELLOW RUST INHIBITIVE PAINT.
2. COORDINATE LOCATION OF GAS CONNECTION WITH EQUIPMENT LOCATION AND MECHANICAL CONTRACTOR.
3. GAS PRESSURE REGULATORS TO BE AS MANUFACTURED BY MAXITROL, FISHER OR SENSUS. CONTRACTOR TO SURVEY GAS UTILIZATION EQUIPMENT FOR SELECTION AND SIZING OF PROPER GAS REGULATORS.



6 EQUIPMENT GAS CONNECTION DETAIL
12" = 1'-0"



2 DOMESTIC HOT WATER RECIRC PUMP (DHWP-1) DETAIL
NTS

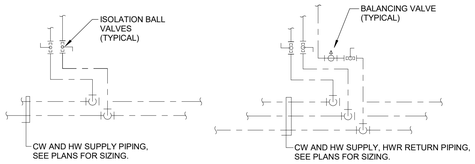


BALANCING VALVE:
WATTS, SERIES CSM-61, LINE SIZE, SOLDER END CONNECTIONS, BRONZE BODY, 1/4" BRASS PRESSURE TAPS

CHECK VALVE:
WATTS, SERIES CVS, LINE SIZE, SOLDER END CONNECTIONS, BRONZE BODY

NOTE:
PRODUCTS INDICATED ARE BASIS OF DESIGN, EQUAL PRODUCTS WILL BE CONSIDERED.

3 HWR BALANCING VALVE DETAIL
NTS



4 TYPICAL BRANCH PIPING DETAIL
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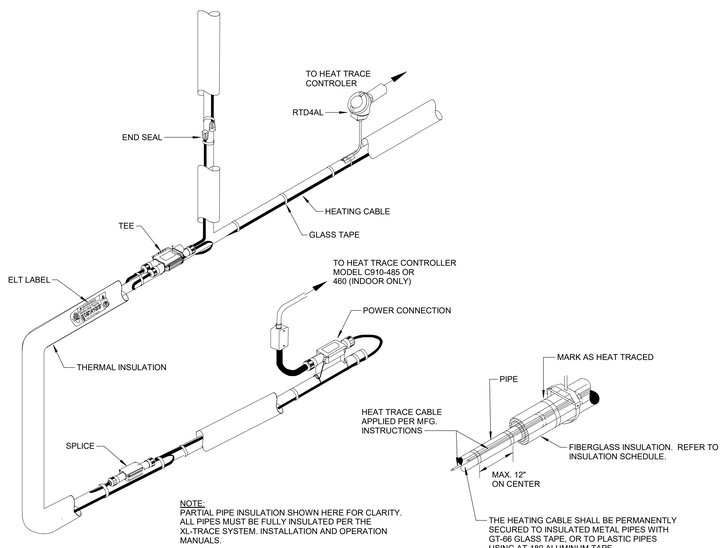
FREEZE PROTECTION HEAT TRACE SCHEDULE

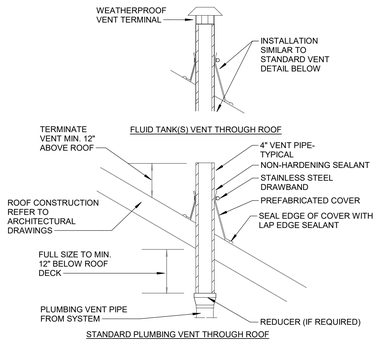
MANUFACTURER	MODEL #	LOCATION	WATTS PER FOOT	OPERATION TEMP.	CIRCUIT BREAKER (A)	MAX. CT. LENGTH	NOTES
RAYCHEM XL-TRACE	8XL2-CR 208-277V	ROOF STORM	8	40 F	20	309	CONTROLLER LOCATED IN STORAGE ROOM 126



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. HEATING CABLE PLUMBING - MAINTAIN 40F USING RAYCHEM XL-TRACE SELF-REGULATING HEATING CABLE MANUFACTURED BY NVENT THERMAL MANAGEMENT. PROVIDE BOTH LINE AND AMBIENT SENSORS. THE HEATING CABLE SHALL OPERATE ON LINE VOLTAGES OF 208-277 VOLTS WITHOUT THE USE OF TRANSFORMERS. FOR ABOVE GROUND PIPING HEATING CABLE SHALL HAVE POLYOLEFIN (-CR) OUTER JACKET. FOR ALL BELOW GROUND PIPING, GREASE WASTE AND FUEL LINES HEATING CABLE SHALL HAVE A FLOUROPOLYMER (-CT) OUTER JACKET.
2. CABLE SHALL BE INSTALLED BY A LICENSED PLUMBING CONTRACTOR WITH FINAL ELECTRICAL CONNECTIONS PERFORMED BY THE ELECTRICAL SUBCONTRACTOR. SYSTEM MUST INCLUDE PIPE INSULATION INSTALLATION THAT FOLLOWS MANUFACTURER'S INSTRUCTIONS FOR CORRECT PERFORMANCE.
3. SYSTEM CONNECTION KITS: NVENT RAYCHEM RAYCLIC CONNECTION KITS FOR POWER CONNECTIONS, TEES/SPLICES AND END SEALS.
4. ACCESSORIES: HIGH TEMPERATURE, GLASS FILAMENT TAPE FOR ATTACHMENT OF HEATING CABLE TO METAL PIPE (GT-66). HIGH TEMPERATURE ALUMINUM TAPE FOR ATTACHENT OF HEATING CABLE TO PLASTIC PIPE (AT-180). PROVIDE WARNING LABELS EVERY 10 FT ON EXTERIOR OF INSULATION, OPOSITE SIDES OF PIPE (ETL).
5. CONTROLLER: SINGLE CIRCUIT CONTROL NVENT RAYCHEM C910-485 OR 460 CONTROLLER (INDOORS ONLY) DIGITAL CONTROLLER. DIGITAL CONTROLLER SHALL HAVE AN INTEGRATED GFPD (30MA). CONTROLLER SHALL BE CONFIGURED FOR AMBIENT CONTROL AND LINE-TEMPERATURE MONITORING. AUTOMATIC SELF-TEST FEATURE TO VERIFY PROPER FUNCTIONALITY OF HEATING CABLE SYSTEM, ISOLATED TRIAC ALARM RELAY AND A DRY CONTACT RELAT FOR ALARM ANNUNCIATION BACK TO BMS. ONE HEAT TRACE CONTROLLER SHALL BE USED FOR EACH HEAT TRACING CIRCUIT.
6. INSTALL AND SECURE THE HEATING CABLE IN ACCORDANCE WITH THE MANUFACTURER'S SYSTEM INSTALLATION AND OPERATIONS MANUAL. THE HEATING CABLE CIRCUIT INTEGRITY SHALL BE TESTED USING A 2500 VDC MEGOHMMETER. MINIMUM ACCEPTABLE INSULATION RESISTANCE SHALL BE 1000 MEGOHMS. CONTRACTOR SHALL SUBMIT TO OWNER RESULTS OF INSTALLTION TESTS REQUIRED BY THE MANUFACTURER. CONTRACTOR TO PROVIDE A FACTORY TRAINED REPRESENTATIVE TO INSPECT FINAL INSTALLATION, START-UP AND ADJUST TO OWNER REQUIREMENTS. SUBMIT FINAL WRITTEN REPORTS OF INSPECTION AND START-UP.
7. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION. DO NOT SCALE THE DRAWING
8. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE NOTE: PARTIAL PIPE INSULATION SHOWN HERE FOR CLARITY. ALL PIPES MUST BE FULLY INSULATED PER THE XL-TRACE SYSTEM. INSTALLATION AND OPERATION MANUALS.

7 FREEZE PROTECTION HEATING CABLE SYSTEM DETAIL
1/8" = 1'-0"



5 PLUMBING ROOF VENT DETAIL
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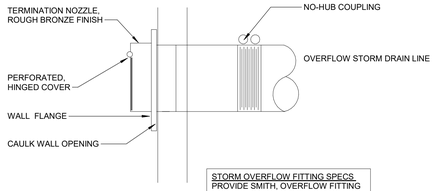
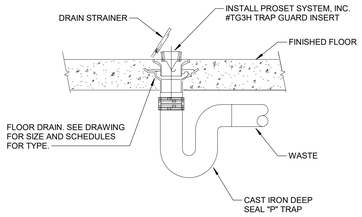
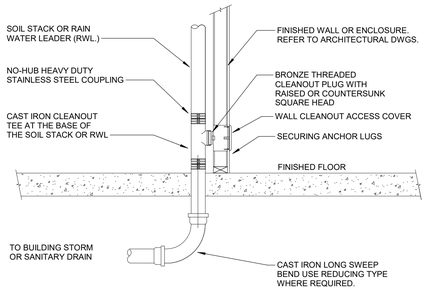


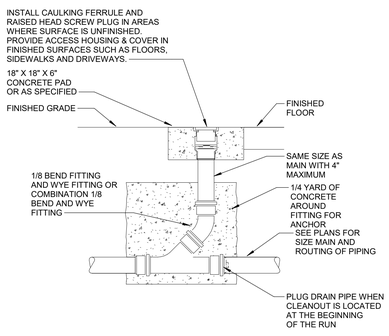
6 OVERFLOW ROOF DRAIN TERMINATION DETAIL
NTS



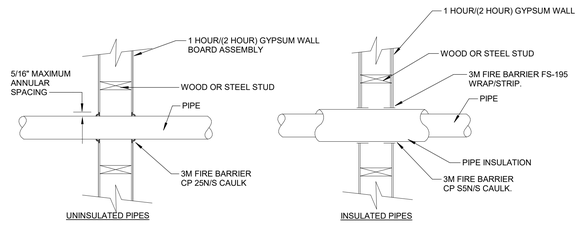
1 TYPICAL FLOOR DRAIN WITH TRAP GUARD INSERT DETAIL
NTS



2 TYPICAL CLEAN OUT DETAIL AT BASE OF SOIL OR STORM STACK
NTS



3 TYPICAL FLOOR CLEANOUT DETAIL
NTS



NOTES:
1. FIRE STOPPING TO CONFORM TO UL SYSTEM #147 ASSEMBLY
2. THE SPACE BETWEEN THE PENETRATING ITEM AND WALL BOARD MUST ACCOMMODATE AT LEAST ONE WRAP OF 3M BARRIER FS-195 WRAP/STRIP.
3. FILL ANNULAR SPACE WITH FS-195 WRAP/STRIP UNTIL THE SPACE IS LESS THAN 1/4".
4. THE WALL PENETRATION FIRESTOPS MUST BE INSTALLED ON BOTH SIDES OF THE WALL.

4 GYPSUM WALL PENETRATION FIRESTOP DETAIL
12" = 1'-0"

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PLUMBING FIXTURE SCHEDULE

GENERAL NOTES:

PIPE SIZES SHOWN ARE FOR SUPPLY AND DRAINAGE ONLY. PROVIDE SUPPLIES WITH SCREWDRIVER STOPS, WALL ESCUTCHEON. 17-GAUAGE SEMICAST "P" TRAPS WITH CLEANOUT PLUGS, PLUMBING FIXTURE SUPPORTS AND NECESSARY FITTINGS TO MAKE FINAL CONNECTION. REFER TO SPECIFICATIONS FOR EQUIVALENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF PLUMBING FIXTURES; CLEARANCE BELOW SINKS AND LAVATORIES AND OFFSET DRAIN LOCATIONS. OFFSET DRAINS SHALL BE OFFSET LEFT REAR OR OFFSET RIGHT REAR. COORDINATE MOUNTING HEIGHTS FOR CHILDREN AND ADULT FIXTURES WITH ARCHITECTURAL DRAWINGS.

TAG	TYPE	ADA	COLD	HOT	SAN	VENT	DESCRIPTION	REMARKS
EWC-1	ELECTRIC WATER COOLER	Yes	1/2"		2"	1 1/2"	HALSEY TAYLER #HTHB-HACG8BLSS-WF ELECTRIC WATER COOLER. SURFACE MOUNTED, DOUBLE BOWL, BOTTLE FILLING STATION, BI-LEVEL, SST, FRONT PUSH BARS, 8.0 GPH, 5 LB FORCE, BUBBLER GUARD. PROVIDE CANE APRON #98324C	
HS-1	HAND SINK	Yes	1/2"	1/2"	2"	1 1/2"	ELKAY LRAD252155, 25"X21-1/4"X5-1/2" 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE BOWL DROP-IN, ADA SINK, REAR CENTER DRAIN, 3 FAUCET HOLES ON 4" CENTERS. KOHLER K-596 "SIMPLICE", DECK MOUNTED FAUCET WITH GOOSENECK SPOUT AND PULL-DOWN SPRAYER, COMPRESSION CARTRIDGES WITH SPRING CHECKS, 1.5 GPM AERATOR. ACORN #ST70-38 ASEE 1070 THEROMSTATIC MIXING VALVE.	
JS-1	JANITOR SINK	No	3/4"	3/4"	3"	2"	FIAT #MSB-2424. MOLDED STONE BASIN, 24"X24"X10", SST INTEGRAL DRAIN BODY. SPEAKMAN SEF-9000-TW, EYESAVER COMBINATION SERVICE SINK FAUCET AND EMERGENCY EYEWASH UNIT WITH DRENCH HOSE. WALL MOUNTED FAUCET, 8" BODY FAUCET, 3/4" THREADED MALE HOSE OUTLET, PAIL HOOK, WALL BRACE AND VACUUM BREAKER SPOUT. PROVIDE DRENCH HOSE ADJACENT TO SINK.	
LAV-1A	LAVATORY	Yes	1/2"	1/2"	1 1/2"	1 1/2"	AMERICAN STANDARD #0356.421. WALL MOUNTED, SINGLE HOLE FAUCET, VITREOUS CHINA, FRONT OVERFLOW, SELF RIMMING. SLOAN #EBF-615-4-BAT-BDT-CP-0.35GPM-MLM-IR-FCT, SENSOR OPERATED FAUCET, 0.35 GPM WITH BELOW DECK THERMOSTAIC MIXING VALVE AND HARD WIRED EL-154 24V TRANSFORMER.	PROVIDE CONCEALED ARM CARRIER
WC-1A	WATER CLOSET	Yes	1"		4"	2"	KOHLER KINGSTON #K-4323. ELONGATED, WALL MOUNTED VITREOUS CHINA WATER CLOSET. SLOAN #G2 8111 BT, BATTERY OPERATED FLUSH VALVE, 1.28 GPF. CHURCH 285CT OPEN FRONT SEAT.	
WC-2A	WATER CLOSET	No	1/2"		4"	2"	AMERICAN STANDARD #2282.001. CHILD HEIGHT 10-1/4" RIM, ELONGATED, FLOOR MOUNTED VITREOUS CHINA WATER CLOSET. SLOAN #G2 8111 BT, BATTERY OPERATED FLUSH VALVE, 1.28 GPF. CHURCH 1580C OPEN FRONT SEAT.	

PLUMBING FIXTURE SCHEDULE

TYPE	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
FCO	FLOOR CLEANOUT	J.R. SMITH		CAST IRON CLEANOUT WITH ROUND ADJUSTABLE NICKEL-BRONZE SQUARE TOP WITH BRONZE PLUG AND VANDAL PROOF SCREWS.	
FD-1	FLOOR DRAIN		2131Y	CAST IRON DEEP BODY WITH FLASHING COLLAR, 12" DIA CAST IRON BAR GRATE. 3" PIPE SIZE UNLESS OTHERWISE INDICATED ON FLOOR PLANS.	
RD-1	ROOF DRAIN	WATTS	RD-100	LARGE AREA PRIMARY ROOF DRAIN	
RD-2	ROOF DRAIN	WATTS	RD-100-R	OVERFLOW ROOF DRAIN WITH 2" EXTERNAL WATER DAM	
WCO	WALL CLEANOUT	ZURN	#Z1411	DUCO CAST IRON CAULK FERRULE WITH CAST BRONZE TAPER. THREADED PLUG, CHROMEPLATED FINISH COVER, AND COUNTERSUNK PLUG. ,	

ELECTRIC WATER HEATER SCHEDULE

			HEATING ELEMENTS		WATER SIDE					ELECTRICAL DATA			
				POWER	STORAGE		PIPE DIAMETER						
ID	MANUFACTURER	MODEL NO.	QTY	kW	RECOVERY @ 100°F (GPH)	VOL (gal)	INLET	OUTLET	THERMAL EFFICIENCY	VOLT	FLA	PH	REMARKS
HWH-1	A.O. SMITH	DSE-10-6			25	10	1"	1"	0	208 V	16.7 A	3	

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE

			PUMP		MOTOR				ELECTRICAL DATA		
					POWER						
TAG	MANUFACTURER	MODEL NO.	FLOW (GPM)	HEAD (FT)	WATTS	HP	RPM	ECM	VOLT	PH	REMARKS
DHWP-1	GRUNDFOS	UPS 15-35 SFC	1.5	5	500		0		120 V	1	

PLUMBING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
ET-1	AMTROL	ST-5C-DD	VERTICAL TANK	
HB-1	J.R. SMITH	5518	RECESSED MOUNTED, NARROW WALL INTERIOR HOSE BIBB. INTEGRAL VACUUM BREAKER, LOCKING COVER WITH LOOSE KEY, CHROME FINISH, 3/4" THREADED HOSE CONNECTION	

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2/9/2023 12:52:22 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt

SECURITY

SYMBOL	DESCRIPTION	MANUFACTURER PART NUMBER	OUTLET BOXES, CONDUIT AND PATHWAYS PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR: 1 G - 2-1/2" DP	4 x 4" x 2-1/8" DP	1G DEVICE RING	2G DEVICE RING	3/4" C	1" C	1/2" FLEX	1-1/2" C	CABLE & TERMINATIONS PROVIDED & INSTALLED BY SECURITY CONTRACTOR: CAT 6A, 24 AWG, 5' PATCH CABLE	CAT 6A, 24 AWG, PATCH CABLE	BELDEN #6584FJ COMPOSIT CABLE PLENUM or Equiv., 18/4C SHLD, 22/2C, 22-4C, 18-4C	#22 - 2C PLENUM	#18 - 6C SHLD PLENUM	#18 - 4C PLENUM	#22 - 4C PLENUM	PLENUM CABLE A/R	#18 - 6C PLENUM	COMMENTS
CXX	FIXED DOME CAMERA - WALL MTG	REFER TO SPECIFICATION 282300 & CAMERA SCHEDULE									1									CONTRACTOR SHALL CONFIRM THAT THERE ARE NOT ANY DEVICES BLOCKING THE CAMERA FIELD OF VIEW PRIOR TO INSTALLATION. THESE DEVICES MAY INCLUDE SIGNAGE, EXIT SIGNS, PENDANT HANGING LIGHTS, SPEAKERS, OR ANY OTHER ARCHITECTURAL ASSEMBLY IN THE IMMEDIATE FIELD OF VIEW. BRING ALL FIELD OF VIEW ISSUES TO THE ATTENTION OF THE SECURITY CONSULTANT.
CXX	FIXED DOME CAMERA - CEILING MTG - INTERIOR	REFER TO SPECIFICATION 282300 & CAMERA SCHEDULE									1									
270° 360° C-XXX	MULTI-SENSOR CAMERA REFER TO CAMERA SCHEDULE FOR MOUNTING REQUIREMENTS	REFER TO SPECIFICATION 282300 & CAMERA SCHEDULE									1									
CR	MOUNT AT 42" AFF ACCESS CONTROL CARD READER	HID MULTICLASS SE #RP40 HID MULTICLASS SE #RP10		1									1							
DC	DOOR POSITION SWITCH	SPECIFIED IN DIV 08 06 71 DPS SHALL BE DPDT							1					2						DOOR POSITION SWITCH SHALL COMMUNICATE WITH ACCESS CONTROL AND INTRUSION DETECTION PANEL.
JB	JUNCTION BOX	4" x 4" JUNCTION BOX		1				1	A/R											REQUIRED AT EACH DOOR WITH A "CR", DPS, or "ICD". REFER TO DRAWING Y200 FOR OUTLET AND CONDUIT INSTALL.
STK	ELECTRIC DOOR HARDWARE	SPECIFIED IN DIV 08 06 71														1				
PS	POWER SUPPLY FOR DOOR HARDWARE	SPECIFIED IN DIV 08 06 71														1				SPECIFIED WITHIN DIV. 08 - DOOR HARDWARE & SHALL BE FIELD LOCATED. CONTROL CABLING FROM ACCESS CONTROL PANELS TO THESE P.S. IS REQUIRED BY SECURITY CONTRACTOR
ICD	VIDEO INTERCOM DOOR STATION AND CARD READER	REFER TO SPECIFICATION 281300						1					1						1	INTERCOM DOOR RELEASE SHALL RELEASE LOCKED DOOR FROM THE ACCESS CONTROL PANEL. USE MULLION MOUNT ON EXTERIOR INTERCOM.
ICM	VIDEO MASTER STATION INTERCOM / DOOR RELEASE	AIPHONE #IX-MV7-HB		1	1						1								1	INTERCOM DOOR RELEASE SHALL RELEASE LOCKED DOOR FROM THE ACCESS CONTROL PANEL. CONTRACTOR TO CONFIRM ROUTING OF ICD TO ICM'S, AND ROLLOVER, PRIOR TO CONFIGURATION.
KPD	KEYPAD MOUNTED AT 48" AFF INCLUDE CLEAR PLEXIGLASS VANDAL PROOF HOUSING	SONITROL #SONIP ICLASS KP STI #77110		1			1								1					
M	MOTION SENSOR - CEILING MOUNTED 360 DEGREE DETECTOR	REFER TO SPECIFICATION 281600		1			1												1	
M	MOTION SENSOR - CORNER WALL MOUNT	REFER TO SPECIFICATION 281600		1			1												1	
	DURESS BUTTON	SENTROL UL RATED #3050																	2	PANIC BUTTON DETAIL - SHALL BE MOUNTED UNDER DESK.
DR	DOOR RELEASE BUTTON	DORTRONICS #5276-HD29 1 GANG FSR #DSKB_385 TABLE BOX															1			MOUNT SWITCH TO TABLE BOX. LABEL SWITCH "DOOR # PUSH TO RELEASE". LABEL SHALL BE ENGRAVED.CONFIRM LOCATION ON DESK WITH OWNER AND FURNITURE CONTRACTOR.
LD	LOCK DOWN BUTTON	REFER TO SPECIFICATION 281300	1				1												2	MOUNT 48" AFF. STI BOX SHALL BE GREEN. CUSTOM LABEL "LOCKDOWN". CONFIRM LOCATION WITH OWNER AND CONSULTANT PRIOR TO INSTALLATION.
SB	BLUE SECURITY STROBE	REFER TO SPECIFICATION 281300	1				1											1		MOUNTING HEIGHT NOTATED ON PLANS. REFER TO WIRING DIAGRAMS. REFER TO WRITTEN SPECIFICATIONS. COORDINATE 120V POWER WITH ELECTRICIAN
SM	SPOT MONITOR & MICRO PC	REFER TO SPECIFICATION 282300	1				1				1							1		MOUNT DISPLAY 66" AFF TO CENTER. WORKSTATION BY OWNER. ALL CONNECTIONS BY CONTRACTOR AWARDED THIS PROJECT.
R	INTERNAL REQUEST TO EXIT SWITCH	SPECIFIED IN DIVISION 08 00 00							1								1			

RESPONSIBILITY MATRIX

	DISCIPLINE	SUPPLIED BY: ELECTRICIAN	LOW VOLTAGE CONTRACTOR	AUDIO VISUAL CONTRACTOR	SECURITY CONTRACTOR	SERVICE PROVIDER	OWNER	CARPENTER	INSTALLED BY: ELECTRICIAN	LOW VOLTAGE CONTRACTOR	SECURITY CONTRACTOR	AUDIO VISUAL CONTRACTOR	SERVICE PROVIDER	OWNER	CARPENTER	COMMENTS
1	SERVICE INTO BUILDING															
	PHONE, CABLE, OTHER SERVICE FROM STREET					X										Owner to Order & Coordinate Services with Service Provider
	LIGHTNING PROTECTION FOR COPPER INTO BUILDING				X									X		
2	HORIZONTAL CABLING															
	CATEGORY RATED ETHERNET CABLE		X							X						
	TERMINATION EQUIPMENT AND TERMINATIONS		X							X						
	TESTING OF ETHERNET CABLE		X													
	EXTENDED MANUFACTURER'S WARRANTY		X													
	CABLE TRAY & J-HOOKS		X							X						
	FLOOR BOXES	X							X							
	PATHWAYS, CONDUIT, OUTLET BOXES, AND PENETRATIONS	X							X							
	FIRESTOPPING		X							X						
3	BACKBONE CABLING (FIBER, COPPER, & GROUNDING)															
	CATEGORY RATED ETHERNET CABLE		X							X						
	TERMINATION EQUIPMENT AND TERMINATIONS		X							X						
	TESTING OF FIBER & COPPER CABLE		X													
	EXTENDED MANUFACTURER'S WARRANTY		X							X						
	CABLE TRAY & J-HOOKS		X							X						
	PATHWAYS, CONDUIT, OUTLET BOXES, AND PENETRATIONS	X							X							
	GROUNDING CABLE BETWEEN DATA ROOMS		X							X						
	GROUNDING TERMINATIONS BETWEEN GROUNDING BUSSBARS		X							X						
	GROUNDING OF BUSSBARS TO ELECTRICAL PANELS OR OTHER MEANS	X							X							
	FIRESTOPPING		X							X						
4	DATA ROOM BUILDOUT															
	EQUIPMENT RACKS & CABINETS		X							X						
	PATCH PANELS FOR ETHERNET CABLING		X							X						
	WIRE MANAGERS - VERTICAL & HORIZONTAL		X							X						
	CABLE TRAY & J-HOOKS		X							X						
	FIRE RATED BACKER BOARD							X							X	
	GROUNDING OF DATA EQUIPMENT TO BUSSBARS		X							X						
	GROUNDING OF BUSSBARS TO ELECTRICAL PANELS OR OTHER MEANS	X							X							
	FIRESTOPPING		X							X						
	SECURITY SYSTEM SERVERS				X						X					
	POWER	X							X							
	UPS's & PDU's					X								X		
	NETWORK SWITCHES					X								X		
	PATCH CORDS (FIBER & COPPER)					X								X		
	WIRELESS ACCESS POINTS					X								X		
	PHONE SYSTEM					X								X		
	SERVERS (OTHER THAN SECURITY SERVERS)					X								X		
5	PHYSICAL SECURITY SYSTEMS															
	SECURITY CAMERAS				X						X					
	SECURITY CABLING FOR INTRUSION DETECTION & ACCESS CONTROL				X						X					
	INTRUSION DETECTION DEVICES AND PANELS				X						X					
	ACCESS CONTROL DEVICES AND PANELS				X						X					
	CONFIGURATION OF PHYSICAL SECURITY SYSTEMS				X						X					
	FINAL TERMINATION BETWEEN SECURITY CABLING AND DOOR DEVICES				X						X					

COMMUNICATION CABLING INFRASTRUCTURE

SYMBOL	DESCRIPTION	OUTLET BOX & CONDUIT SIZES PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR: 1 G - 2-1/2" DP	4 x 4" x 2-1/8" DP	1G DEVICE RING	LEGRAND #TV3LVKITWCC2	4G DEVICE RING	1" C	1-1/4" C	1-1/2" C	CABLE / TERMINATION PROVIDED & INSTALLED BY LOW VOLTAGE CONTRACTOR: CAT6A PLENUM CABLE	RJ45 (8P8C) JACK - CAT6A	FACEPLATE - DATA	WALL PHONE MTG PLATE	HUBBELL #HSB2WP			COMMMENTS
W	Wall Phone Outlet	1		1			1			1	1		1				Mounting Height 48" AFF
1D	1 Data Outlet		1	1			1			1	1	1					Mounting Height 18" AFF unless otherwise noted.
2D	2 Data Outlet		1	1			1			2	2	1					Mounting Height 18" AFF unless otherwise noted.
3D	3 Data Outlet		1	1			1			3	3	1					Mounting Height 18" AFF unless otherwise noted.
4D	4 Data Outlet		1	1			1			4	4	1					Mounting Height 18" AFF unless otherwise noted.
1V1D	1 Voice - 1 Data Outlet		1	1			1			2	2	1					Mounting Height 18" AFF unless otherwise noted.
1V2D	1 Voice - 2 Data Outlet		1	1			1			3	3	1					Mounting Height 18" AFF unless otherwise noted.
2V2D	2 Voice - 2 Data Outlet		1	1			1			4	4	1					Mounting Height 18" AFF unless otherwise noted.
1V	1 Voice Outlet		1	1			1			1	1	1					Mounting Height 18" AFF unless otherwise noted.
2V	2 Voice Outlet		1	1			1			2	2	1					Mounting Height 18" AFF unless otherwise noted.
3V	3 Voice Outlet		1	1			1			3	3	1					Mounting Height 18" AFF unless otherwise noted.
#V #D	Floor Box						A/R			A/R	A/R	1					Floor Box to be sized to accommodate cable & power # - Denotes Qty of Cables Refer to electrical drawings for floor box conduit requirements.
AP	Wireless Access Point Ceiling Mounted									2	2			1			Ceiling mounted AP shall have a 15ft service loop and located at approximate locations shown on plans - Refer to T-300/6 & 12 T-304/02, 03, 04, 05 & 06 AP = MOUNTED IN DROP CEILING AP (H) = HARD CEILING MOUNTED AP (OC) = OPEN CEILING MOUNTED AP (E) = EXTERIOR MOUNT
AP	Wireless Access Point Wall Mounted	1		1			1			2	2			1			
MON	1 Data Outlet For Monitor				1		1			1	1						Mounting Height 60" AFF unless otherwise noted.
	1 Data For Camera		1	1						1	1			1			Mounting Height per drawings & camera schedule.
	1 Data For Camera		1	1						1	1			1			Mounting Height per drawings & camera schedule.
270° 360°	1 Data For Camera		1	1						1	1			1			Mounting Height per drawings & camera schedule.

AUDIO VISUAL

SYMBOL	DESCRIPTION	DEVICE	OUTLET BOX & CONDUIT TO ACCESSIBLE CEILINGS & PULL CORDS PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR: LEGRAND #EFSB4 - 4 GANG WALL BOX	4G- 2-1/2"DP	4" x 4" x 4" DP	1G DEVICE RING	2G DEVICE RING	4G DEVICE RING	3/4" C	1" C	1-1/4" C	BLANK COVER PLATE	COMMENTS
A	AV Interface Connection Location	Mounting box and Conduit only AV Devices and Cabling NIC			1	1				2	1	Mount 18" AFF unless otherwise noted.
S	Public Address Speaker Location	Mounting box and Conduit only AV Devices and Cabling NIC			1			1		1		Ceiling mounted. Refer to wiring diagram and written specification for all requirements and associated devices. Secure to grid per manufacturer recommendations
B	AV Control Outlet Box	Mounting box and Conduit only AV Devices and Cabling NIC			1	1			1		1	Mounting Height 46" AFF unless otherwise noted.
E	Floorbox AV Transmitter & Receiver	Mounting box and Conduit only AV Devices and Cabling NIC		1				1		2	1	Coordinate location in floor box prior to rough-in of floor box.
MON	Monitor Location	Mounting box and Conduit only AV Devices and Cabling NIC	1						1			Mounting Height 60" A.F.F. or as Otherwise Noted.
P	Projector & Pass-Thru Plate	Mounting box and Conduit only AV Devices and Cabling NIC			1				1	1	1	Confirm color with Architect. Refer to specifications and details for projector information. Conduit shall terminate at cafeteria local sound system. Refer to wiring diagram for receiver.
SC	Screen Pass-Thru Plate	Mounting box and Conduit only AV Devices and Cabling NIC			1				1	1	1	Confirm color with Architect. Refer to specifications and details for projector information. Conduit shall terminate at cafeteria local sound system.
MIC	Microphone Input Plate	Mounting box and Conduit only AV Devices and Cabling NIC		1				1	1		1	Mounting Height 18" A.F.F. Refer to specification for configuration description. Conduit shall terminate at nearest local sound system.

GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
3. REQUIRED CABLE COLORS: SUBMIT ALL CABLE AND JACK COLOR WITH PRODUCT SUBMITTALS PRIOR TO PROCUREMENT
4. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
5. CONTRACTOR SHALL MAINTAIN THE TWIST OF THE INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL CATEGORY 3 OR HIGHER CABLE.
6. USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES RATED CATEGORY 3 OR HIGHER.
7. ALL CABLES RUN IN CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CONDUIT OR J-HOOKS MOUNTED TO SLAT AT MINIMUM OF 5' INTERVALS. NO CABLE SHALL REST OR TOUCH CEILING ASSEMBLIES. CABLES SHALL NOT BE INSTALLED EXPOSED IN OPEN CEILING AREAS.
8. ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED CABLES SHALL BE USED.
9. USE ONLY PLENUM RATED CABLES.
10. DO NOT RUN ETHERNET CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
11. MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
12. COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH AND CONFIRMED BY THE ARCHITECT.
13. OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTEES. THE LOW VOLTAGE INSTALLATION CONTRACTOR SHALL SUBMIT ALL TEST RESULTS OF THE CABLE MANUFACTURER TO CERTIFY THE CABLING INSTALLATION AND ATTAIN AND DELIVER TO THE OWNER THE EXTENDED MANUFACTURER'S WARRANTY FOR MATERIAL AND WORKMANSHIP.
14. SPLICING CABLES IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED.
15. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, 24 PORT, CATEGORY 6A RATED PATCH PANEL.
16. THE FOLLOWING CABLING SHALL BE TERMINATED ONTO IT'S OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
    - 16.1. ALL WIRELESS APS
    - 16.2. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT)
17. LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
18. CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION.
19. CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
20. ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE THE PROJECT ARCHITECT, CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
21. ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
22. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
23. SECURE ATTACHMENT OF TECHNOLOGY AND SECURITY DEVICES:
24. TO ENSURE PROPER ATTACHMENT OF FIXTURES, FURNISHINGS & EQUIPMENT ITEMS, INCLUDING AND TECHNOLOGY ITEMS, WHERE
    - 24.1. "ITEMS" ARE ATTACHED TO WALL, CEILING, OVERHEAD STRUCTURE, AND/OR FLOOR, CONTRACTOR SHALL PROVIDE INFORMATION ADEQUATE FOR ARCHITECT TO VERIFY ITEMS, ATTACHED TO WALL, CEILING, AND/OR FLOOR ARE ATTACHED SECURELY AND PER MANUFACTURER'S RECOMMENDATIONS. ARCHITECT'S REVIEW MAY BE IMPLEMENTED DURING SUBMITTAL PROCESS.
    - 24.2. CONTRACTOR SHALL PROVIDE STRUTS, HANGERS, FASTENERS, SAFETY HARNESSES, CHANNELS, BOLTS, SCREWS, RODS, ETC. TO SECURELY ATTACH ITEMS TO EXISTING STRUCTURE AS REQUIRED TO MEET FIELD CONDITIONS AND MEET APPLICABLE CODES.
25. ALL CONDUIT IS TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
26. PLACEMENT OF ALL SECURITY VIDEO SURVEILLANCE CAMERAS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.

TECHNOLOGY ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS APPLICABLE)

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
A/C	ABOVE COUNTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
A/R	AS REQUIRED
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BNC	BAYONET NEIL-CONCELMAN
C	CONDUIT(S)
DEMARC	DEMARCATION
DPDT	DOUBLE THROW DOUBLE PULL
EIA	ELECTRONICS INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
F	FACSIMILE (FAX)
LAN	LOCAL AREA NETWORK
MER	MAIN EQUIPMENT ROOM
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFE	OWNER FURNISHED EQUIPMENT
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PoE	POWER OVER ETHERNET
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
QYT	QUANTITY
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VGA	VIDEO GRAPHICS ARRAY
VoIP	VOICE OVER INTERNET PROTOCOL
W	WALL TELEPHONE (VOICE)
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS (DATA) ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF

GENERAL SYMBOLS

DETAIL NUMBER / DETAIL/PLAN IDENTIFIER / SHEET NUMBER

DETAIL NUMBER / SECTION IDENTIFIER / SHEET NUMBER

DETAIL NUMBER / ELEVATION IDENTIFIER / SHEET NUMBER

DRAWINGS KEYNOTE NOTE TAG

EQUIPMENT NOTE TAG

CONDUIT SLEEVE - THROUGH CEILING TO ABOVE FLOOR

CONDUIT SLEEVES - THROUGH FLOOR TO BELOW FLOOR

CONDUIT SLEEVES - HORIZONTAL

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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

TECHNOLOGY / AV / SECURITY PLANS GENERAL NOTES AND SYMBOL LEGENDS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	
DATE	02/10/23
DRAWN BY	MJD
APPROVED BY	Approver

ISSUE DATES

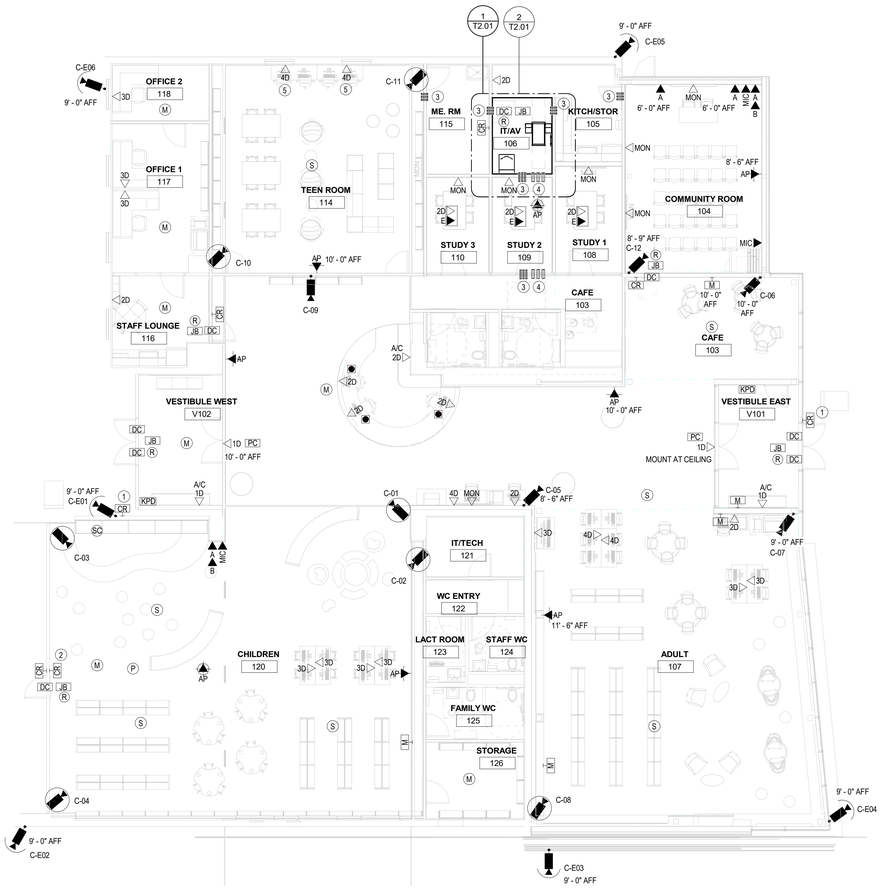
NO.	DATE	PURPOSE

T0.01

2/10/2023 10:52:04 AM BIM 360://Bloomfield Library - McMahon Building/221010 McMahon Library TECH BIM360-2021.rvt

DRAWING KEYNOTES

1. PROVIDE AND INSTALL AN ADDITIONAL 6C CABLE TO THIS "CR" TO INTERFACE WITH THE ADA DOOR OPPENER. COORDINATE CONNECTIVITY WITH ADA DOOR CONTRACTOR.
2. INTERIOR "CR" SHALL SHUNT THE LOCAL ALARM AS SPECIFIED WITHIN DIV. 08 AND SHALL NOT IMPEDE EGRESS UNDER ANY CONDITION.
3. PROVIDE QTY 3 - 2"C FOR FUTURE AV CABLING PATHWAYS. THESE CONDUIT SHALL NOT BE USED FOR ANY CABLING DEFINED IN THESE DRAWINGS. ALL PENETRATIONS REQUIRED FOR LOW VOLTAGE CABLING IN ALL ROOMS AND SPACES SHALL BE INSTALLED AS NECESSARY.
4. PROVIDE QTY 3 - 4"C FOR ETHERNET AND SPEAKER CABLING PATHWAYS. ALL PENETRATIONS, SLEEVES, AND FIRE STOPPING REQUIRED FOR LOW VOLTAGE CABLING IN ALL ROOMS AND SPACES SHALL BE INSTALLED AS NECESSARY.
5. INSTALL 1-1/2" BACK BOX AT THESE LOCATIONS WITH ANGLED FACEPLATE 8P8C (RJ45) JACKS TO MAINTAIN THE MIN BEND RADIUS OF THESE CABLES.



1 FIRST FLOOR PLAN
1/8" = 1'-0"

2 FIRST FLOOR RCP
1/8" = 1'-0"

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PROJECT

CD SET

KEY PLAN

DRAWING TITLE

TECHNOLOGY - AV - SECURITY PLAN & RCP FIRST FLOOR PLAN

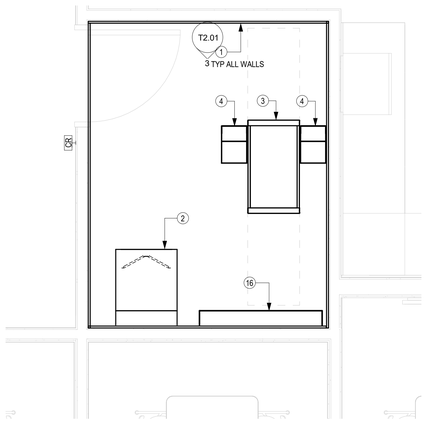
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	02/10/23
DRAWN BY	MJD
APPROVED BY	Approver

ISSUE DATES

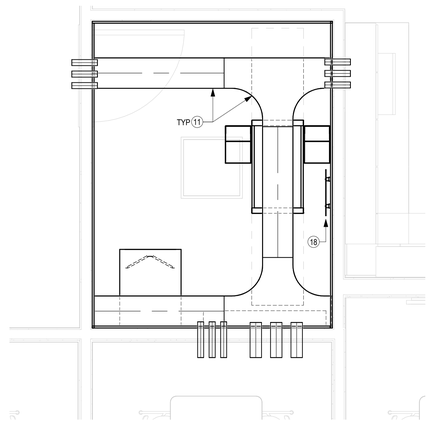
NO.	DATE	PURPOSE

T1.01

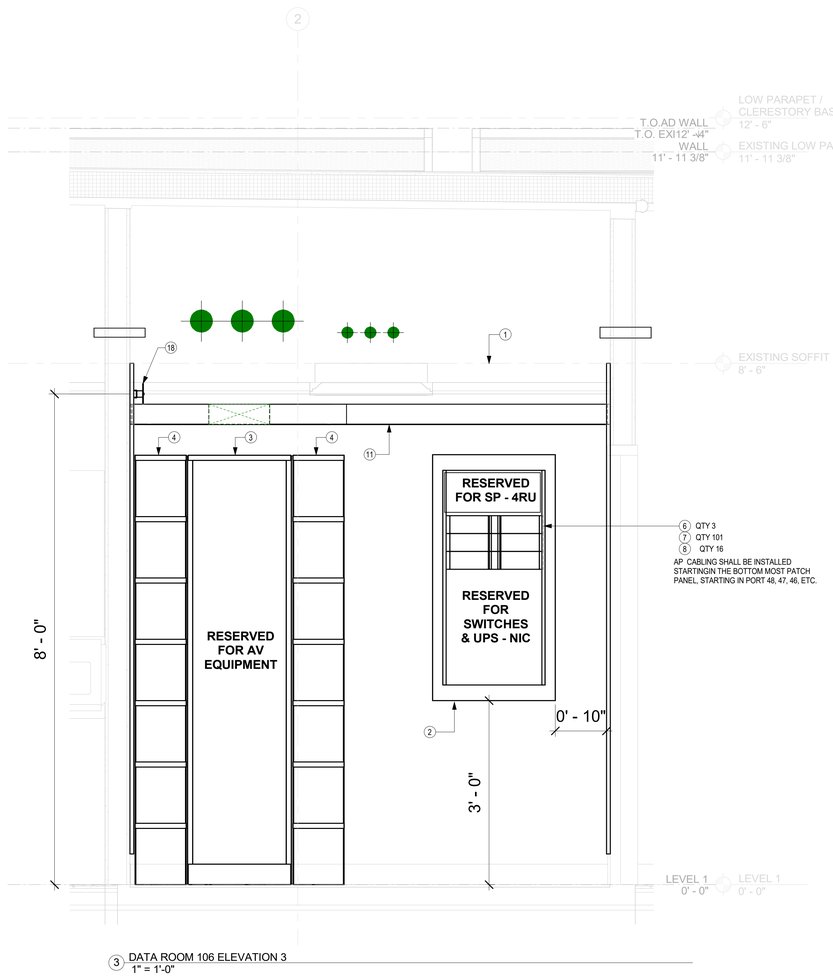
2/10/2023 10:52:14 AM BIM 360://Bloomfield Library - McMahon Building/221010 McMahon Library TECH BIM360-2021.rvt



1 DATA ROOM 106 PLAN VIEW
1/2" = 1'-0"



2 DATA ROOM 106 RCP VIEW
1/2" = 1'-0"



3 DATA ROOM 106 ELEVATION 3
1" = 1'-0"

PRODUCT DESCRIPTION

KEY	DESCRIPTION	MANUFACTURER #
1	3/4" FIRE RATED PLYWOOD PAINTED WITH 2 COATS OF FIRE RETARDANT PAINT AS SPECIFIED. MOUNT BOTTOM OF PLAYWOOD AT 6" AFF.	AS REQUIRED
2	WALL MOUNTED CABINET 24"W x 36"H x 30"D - W/FAN KIT	CABINET CPI #12419-X36 OR EQUIV FAN KIT CPI #40972-001 REPLACEMENT FAN KIT CPI #40973-001 VERT SECTIONS CPI #40970-707
3	ADJUSTABLE RAIL QUADRACK; 84", 45U H x 23.62" W x 35.43" D; 35.43 to 41.33" to 41.33" RAIL DEPTH; BLACK	CPI #15252-703 OR EQUIV
4	10" WIDE, DOUBLE SIDED VERTICAL WIRE MANAGER	CPI #13914-703 OR EQUIV
5	HORIZONTAL WIRE MANAGER - 1RU	CPI #30139-719 OR EQUIV
6	48 PORT MODULAR ANGLED PATCH PANELS, 2RU	Panduit - CPPLA48WBLY OR EQUIV
7	CATEGORY 6A JACK MODULE, BLUE	PANDUIT #CJ6X88TGBU OR EQUIV
8	CATEGORY 6A JACK MODULE, RED (WAP'S)	PANDUIT #CJ6X88TGRD OR EQUIV
9	FIBER OPTIC CABINET - 1RU	AS SPECIFIED
10	LC ADAPTER PLATES, 6 LC DUPLEX (12 FIBERS) SM, AQUA	AS SPECIFIED
11	12" WIDE CABLE TRAY MOUNTED TO CEILING DECK, INCLUDE THREADED RODS W/PROTECTIVE COVERS, TRAPEZE BRIDGE SUPPORT AND ALL REQUIRED MOUNTING ACCESSORIES	CPI OR EQUIV
12	18" WIDE CABLE TRAY MOUNTED TO CEILING DECK, INCLUDE THREADED RODS W/PROTECTIVE COVERS, TRAPEZE BRIDGE SUPPORT AND ALL REQUIRED MOUNTING ACCESSORIES	CPI OR EQUIV
13	12" WIDE RADIUS DROP	CPI OR EQUIV
14	18" WIDE RADIUS DROP	CPI OR EQUIV
15		
16	SECURITY PANEL LOCATION	AS SPECIFIED
17	4" CONDUITS SLEEVES	AS SPECIFIED
18	GROUNDING BUSBAR	FURNISHED BE DIV 26 0000

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PROJECT

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KEY PLAN

DRAWING TITLE

TECHNOLOGY PLANS
DATA ROOM 121 DETAILS

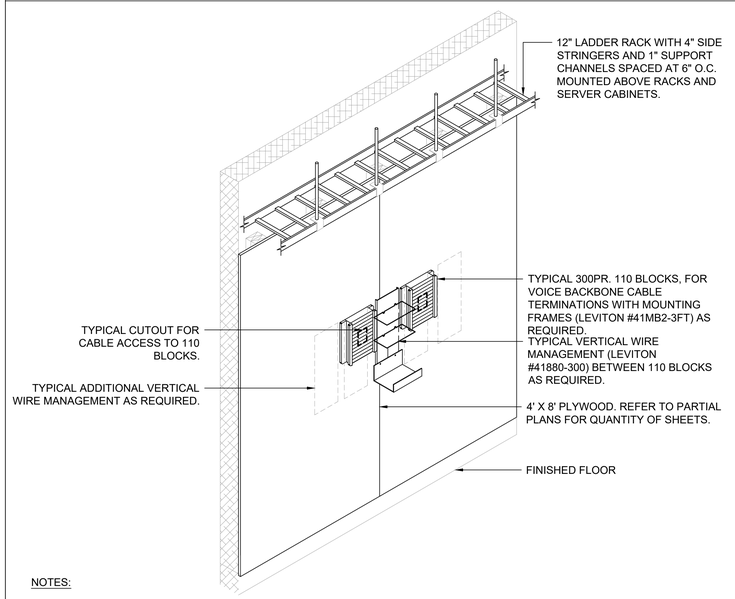
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	02/10/23
DRAWN BY	MJD
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

T2.01

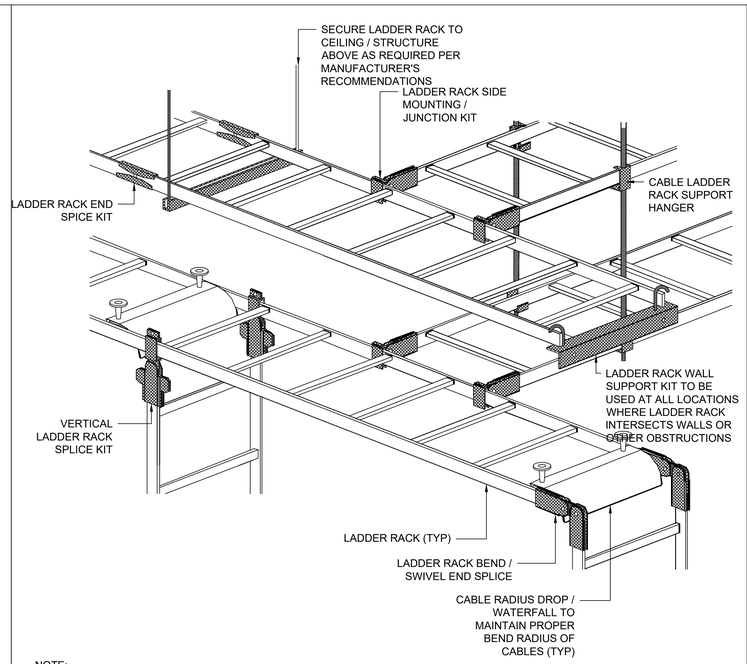
2/10/2023 11:35:31 AM BIM 360://Bloomfield Library - McMahon Building/221010 McMahon Library TECH BIM360-2021.rvt



NOTES:

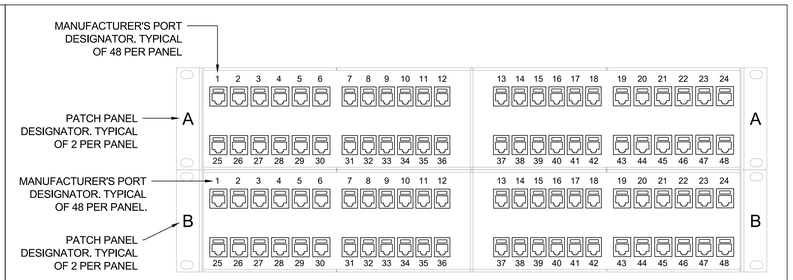
1. REFER TO TELECOMMUNICATIONS ROOM PARTIAL PLANS FOR VOICE WALL FIELD LOCATIONS AND MOUNTING SURFACES.
2. GENERAL CONTRACTOR TO PROVIDE CUTOUTS AND COORDINATE WITH CABLE CONTRACTOR ON LOCATIONS AND SIZES WITHIN THE PLYWOOD BACKBOARD FOR CABLE ACCESS TO VOICE TERMINATION FIELDS.
3. CABLE CONTRACTOR TO ROUTE ALL HORIZONTAL AND BACKBONE VOICE CABLING DOWN BACKSIDE OF PLYWOOD BACKBOARD, ROUTE THROUGH CUTOUT AND TERMINATE. MOUNT 300PR 110 BLOCKS OVER THE CUT.
4. THIS DETAIL IS FOR BASIC WALLFIELD CONFIGURATIONS ONLY, CABLE CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT TO ENSURE A NEAT AND WORKMANLIKE INSTALLATION OF ALL VOICE CABLING.

MER VOICE WALLFIELD ON PLYWOOD BACKBOARD | NTS | 01



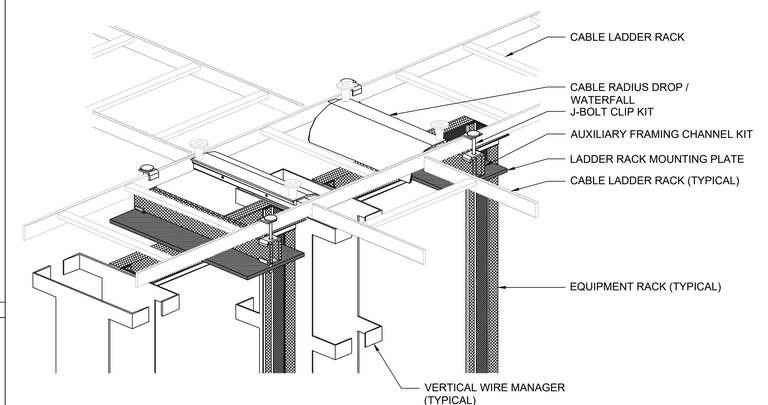
NOTE:
ALL CONNECTION HARDWARE, PARTS AND PIECES ARE TO BE OF THE SAME MANUFACTURER AS THE LADDER RACK AND APPROVED BY THE MANUFACTURER AS APPROPRIATE FOR THIS APPLICATION.

TYPICAL LADDER RACK CONNECTION DETAIL | NTS | 02



NOTES:
1. COMMUNICATION ROOMS - COMMUNICATION VOICE PUNCH BLOCKS OR DATA PATCH PANELS - COMMUNICATION TELEPHONE/DATA PORTS
2. LABEL PATCH PANELS FROM TOP TO BOTTOM AS: "A", "B", "C", "D" AS REQUIRED.

COMMUNICATION PANEL - DATA LABELING | NTS | 03



TYPICAL LADDER RACK INSTALLATION ABOVE EQUIPMENT RACK DETAIL | NTS | 04

GROUNDING & BONDING RISER/DETAIL NOTES

A. REFER TO GROUNDING AND BONDING DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B. REFER TO GROUNDING AND BONDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
C. PROVIDED 2"C SLEEVE PATHWAY AT EACH FLOOR AND WALL PENETRATIONS FOR THE TELECOMMUNICATION BONDING BACKBONE (TBB). COORDINATE PROPER METHODS FOR PENETRATIONS WITH FIRESTOPPING AS REQUIRED PER DIVISION 07 SPECIFICATIONS.
D. BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-A) IN PATHWAY.
E. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
F. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-A.
G. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-A) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
H. CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
   H.1 THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
   H.2 EACH TGB AND THE NEAREST GROUNDING ELECTRODE.
   H.3 EACH TGB AND PATHWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT.

DETAIL NOTES

1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING ROUNDING ELECTRODE. REFER TO RISER DIAGRAM.
2. BCT TO NEAREST BUILDING STEEL STRUCTURE, IF APPLICABLE. UTILIZE EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. BCT TO NEAREST BUILDING ELECTRICAL PANELBOARD GROUND BAR. UTILIZE LISTED CONNECTOR TO PANELBOARD GROUND BUS.
4. TELECOMMUNICATION BONDING BACKBONE (TBB) FOR GROUNDING EQUALIZER (GE), IF APPLICABLE. REFER TO RISER DIAGRAM.
5. TYPICAL TBB(S) THAT INTERCONNECTS ALL TGB(S) WITH THE TMGB. REFER TO RISER DIAGRAM.
6. BCT TO TELECOMMUNICATIONS CABLE RUNWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY IS NOT ACCEPTABLE.EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUG TAP TO THE DEDICATED HOMERUN BCT BACK TO THE TGB. SEE DETAILS.

GROUNDING WIRE AWG CHART

TIA 607-B & ISO/IEC 30129

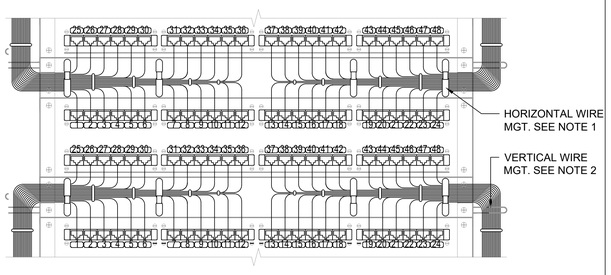
Maximum TMGBB (PBB) to TGBB (SBB) Length (L) meters (feet)	Conductor cross-sectional area (minimum)	
	Nominal Int'l Conductor (mm2)	Nominal AWG Conductor
L ≤ 4m (13ft)	16	6
4 < L ≤ 6m (14 –20ft)	25	4
6 < L ≤ 8m (21 –26ft)	35	3
8 < L ≤ 10m (27 –33ft)	35	2
10 < L ≤ 13m (34 –41ft)	50	1
13 < L ≤ 16m (42 –52ft)	60	1/0
16 < L ≤ 20m (53 –66ft)	70	2/0
20 < L ≤ 26m (67 –84ft)	95	3/0
26 < L ≤ 32m (85 –105ft)	120	4/0
32 < L ≤ 38m (106 –125ft)	150	250 kcmil
38 < L ≤ 46m (126 –150ft)	150	300 kcmil
46 < L ≤ 53m (151 –175ft)	185	350 kcmil
53 < L ≤ 76m (176 –250ft)	250	500 kcmil
76 < L ≤ 91m (251 –300ft)	300	600 kcmil
Greater than 91m (301ft)	400	750 kcmil

For lengths in excess of those shown above, the conductor cross-sectional area should be calculated as 3.3mm2/m or 2kcmil/ft.

WIRE AWG AS REQUIRED PER DISTANCES SPECIFIED IN GROUNDING CHART. GROUNDING BUSS WIRE TERMINATING ONTO GROUNDING BUSS BARS AT EACH END.

TELECOMMUNICATIONS PATHWAY GROUNDING AND BONDING DETAILS | NTS | 05

CABLE STRAIN RELIEF DETAIL | NTS | 06



NOTES:

1. PROVIDE HORIZONTAL WIRE MANAGEMENT (SIZED AS SHOWN ON RACK ELEVATION 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 ELEVATION DETAILS. SECURE CABLING 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.

EQUIPMENT RACK WIRING MANAGEMENT DETAIL | NTS | 07

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STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	
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ISSUE DATES

NO.	DATE	PURPOSE

T3.00

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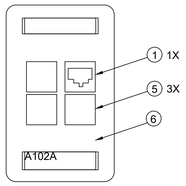
PRODUCT DESCRIPTION	
KEY	DESCRIPTION
1	CATEGORY 6A, 8P8C (RJ45) JACK - BLUE (DATA CABLING)
2	CATEGORY 6A, 8P8C (RJ45) JACK - WHITE (VOICE CABLING)
3	CATEGORY 6A, 8P8C (RJ45) JACK - GREEN (WIRELESS AP CABLING)
4	CATEGORY 6A, 8P8C (RJ45) JACK - YELLOW (SECURITY CABLING)
5	BLANK INSERT
6	SINGLE GANG FACEPLATE, FOUR-PORT OPENING
7	SINGLE GANG FACEPLATE, WALL MOUNTED PHONE
8	2-PORT SURFACE MOUNTED BOX
9	CATEGORY 6A, 8P8C (RJ45) PLUG - BLUE (DATA CABLING)
10	106 TYPE FRAME TO MOUNT DATA JACKS

NOTES:

1. ALL LABELING SHALL BE DESCRIBED PER THE OWNER PRIOR TO INSTALLATION.
2. COLOR OF ALL FACEPLATES AND TERMINATION CONNECTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.
3. REFER TO SPECIFICATION FOR APPROVED MANUFACTURERS.

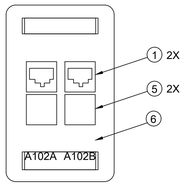
PRODUCT DESCRIPTION | NTS | 01



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: 1D ▷

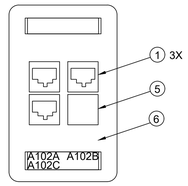
DATA OUTLET | NTS | 02



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: 2D ▷

DATA OUTLET | NTS | 03

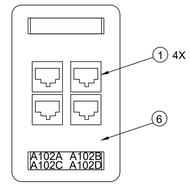


SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

COILED WITHIN OUTLET BOX - 6' SERVICE LOOP

SYMBOL: 3D ▷

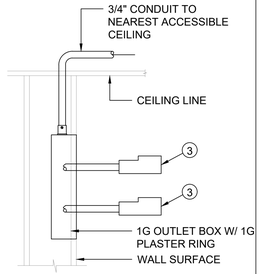
DATA OUTLET | NTS | 04



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: 4D ▷

DATA OUTLET | NTS | 05

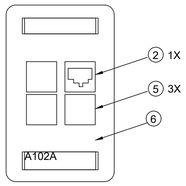


SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

COILED CABLE WITHIN OUTLET BOX WITH 6' SERVICE LOOP

SYMBOL: AP ⊢▶

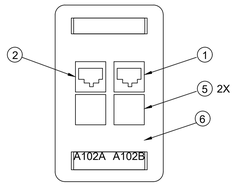
WAP - WALL MOUNTED | NTS | 06



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: 1V ▶

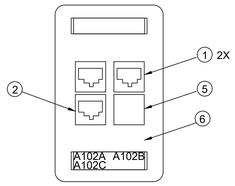
VOICE OUTLET | NTS | 07



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: 1V1D ▶▷

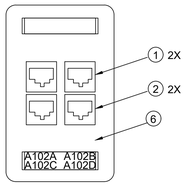
VOICE - DATA OUTLET | NTS | 08



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: 1V2D ▶▷

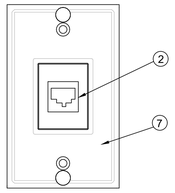
VOICE - DATA OUTLET | NTS | 09



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: 2V2D ▶▷

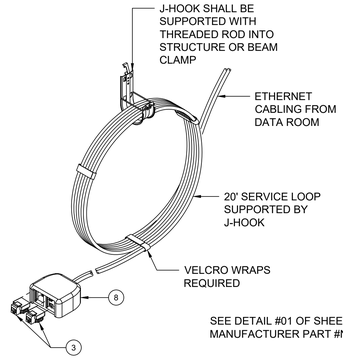
VOICE - DATA OUTLET | NTS | 10



SEE DETAIL #01 OF SHEET FOR PRODUCT DESCRIPTION

SYMBOL: W ▶

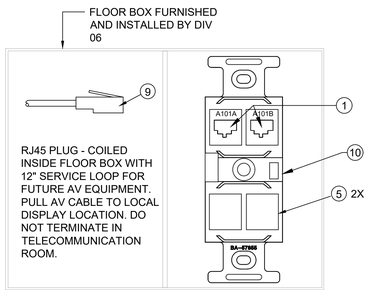
WALL - PHONE OUTLET | NTS | 11



SEE DETAIL #01 OF SHEET FOR MANUFACTURER PART #No's

SYMBOL: AP ⊢▶

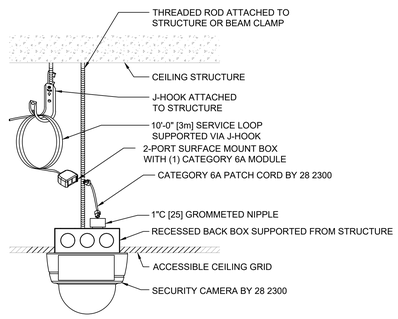
WAP - CEILING MOUNTED | NTS | 12



SEE DETAIL #01 OF SHEET FOR MANUFACTURER PART #No's

SYMBOL: E ▶ 2D ▶

VOICE - DATA OUTLET - FLOOR BOX | NTS | 13



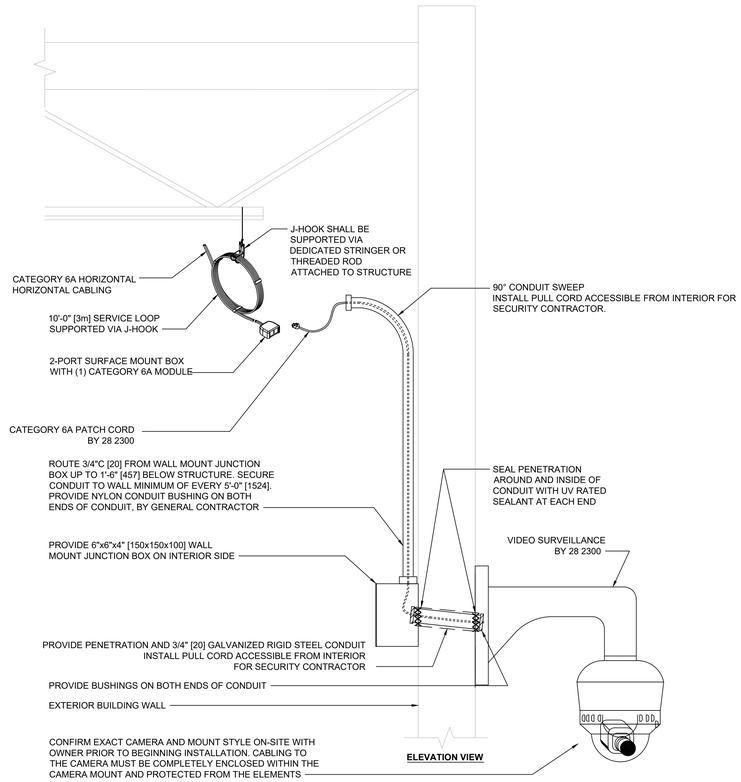
ELEVATION VIEW

NOTES:

1. PROVIDE BRACING AND/OR SUPPORT FOR CAMERA WHERE NECESSARY.
2. NOT ALL PARTS SHOWN. CONTRACTOR SHALL ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES.

SYMBOL:

INTERIOR CAMERA - CEILING MOUNTED | NTS | 14



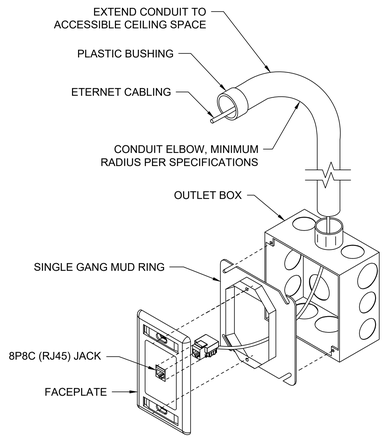
ELEVATION VIEW

NOTES:

1. LOCATION OF PENETRATION AND JUNCTION BOX SHALL BE COORDINATED BY THE TELECOMMUNICATIONS CONTRACTOR AND PROVIDED BY THE GENERAL CONTRACTOR. CONDUIT SHALL BE INSTALLED AT AN ANGLE, THE TOP OF THE CONDUIT (EXTERIOR) SHALL BE BELOW THE BOTTOM OF THE CONDUIT (INTERIOR) AS SHOWN ABOVE. PROVIDE A WATER TIGHT SEAL IN CONDUIT AFTER INSTALLATION.
2. NOT ALL PARTS SHOWN. CONTRACTOR SHALL ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES.

SYMBOL:

EXTERIOR CAMERA - WALL MOUNT | NTS | 15



NOTES:

1. CONDUIT SHALL BE CONTINUOUS FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE AS INDICATED ON PLANS.
2. PROVIDE 1" CONDUIT AND (1) PULL STRING FROM OUTLET BOX TO NEAREST CEILING SPACE.
3. NOT ALL PARTS SHOWN. CONTRACTOR SHALL ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES.

TELECOMMUNICATIONS DEVICE OUTLET ASSEMBLY | NTS | 16

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STATE PROJ. NO.	
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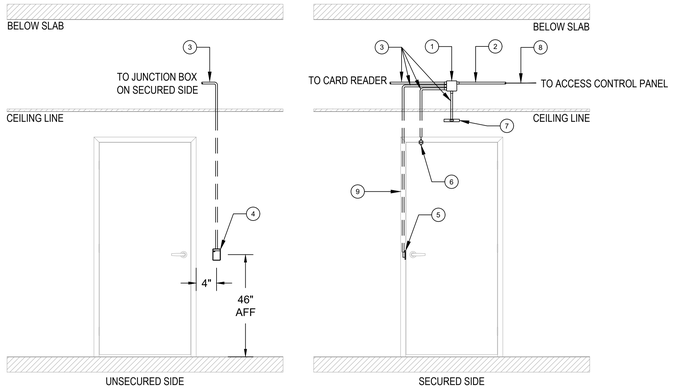
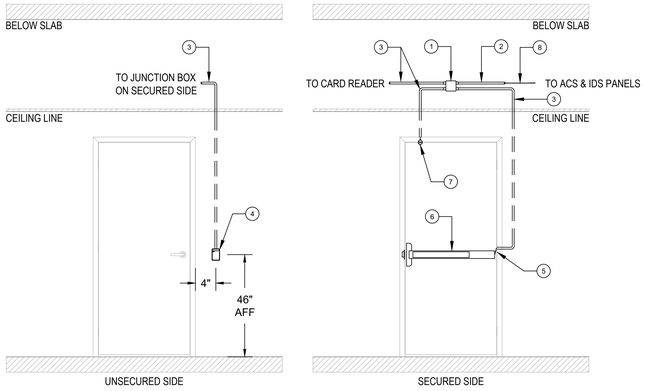


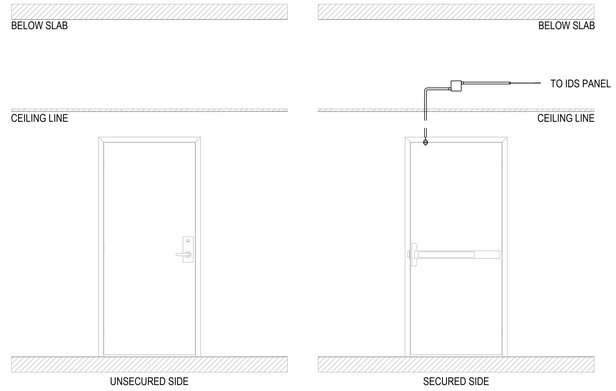
KEY NOTES
1. 4"X4"X2-1/8" DEEP JUNCTION BOX (JB) ON SECURE SIDE, ABOVE ACCESSIBLE CEILING - FURNISHED BY GENERAL CONTRACTOR.
2. 1" CONDUIT TO (JB) FOR SECURITY COMPOSITE CABLE - FURNISHED BY SECURITY CONTRACTOR.
3. 3/4" CONDUIT TO (JB) FOR SECURITY DEVICES - FURNISHED BY GENERAL CONTRACTOR. TYPICAL FOR ALL DEVICES.
4. READER - FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. SINGLE GANG ELECTRICAL BOX FLUSH MOUNTED 46" A.F.F. ON UNSECURED SIDE - FURNISHED BY GENERAL CONTRACTOR.
5. ELECTRIC STRIKE FURNISHED BY DIVISION 08. CABLE AND CONNECTION BY SECURITY CONTRACTOR.
6. DOOR POSITION SWITCH - FURNISHED BY DIVISION 08. CABLED BY SECURITY CONTRACTOR. DOOR AND FRAME PREP BY GENERAL CONTRACTOR.
7. REQUEST-TO-EXIT MOTION. LOCATED ON THE SECURED SIDE OF THE DOOR - FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. SINGLE GANG ELECTRICAL BOX FLUSH MOUNTED HORIZONTALLY 6"-8" ABOVE DOOR FRAME ON UNSECURED SIDE - FURNISHED BY GENERAL CONTRACTOR.
8. COMPOSITE ACCESS CONTROL CABLE - FURNISHED BY AND INSTALLED BY OWNER.
9. DOOR FRAME WITH WIRE CHASE/CONDUIT FOR SECURITY CABLING - FURNISHED BY GENERAL CONTRACTOR.

CARD ACCESS SINGLE DOOR WITH ELECTRIC STRIKE | NTS | 01



KEY NOTES
1. 4"X4"X2-1/8" DEEP JUNCTION BOX (JB) ON SECURE SIDE, ABOVE ACCESSIBLE CEILING - FURNISHED BY GENERAL CONTRACTOR.
2. 1" CONDUIT TO (JB) FOR SECURITY COMPOSITE CABLE- FURNISHED BY GENERAL CONTRACTOR.
3. 3/4" CONDUIT TO (JB) FOR SECURITY DEVICES - FURNISHED BY GENERAL CONTRACTOR. TYPICAL FOR ALL DEVICES.
4. READER - FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. SINGLE GANG ELECTRICAL BOX FLUSH MOUNTED 46" A.F.F. ON UNSECURED SIDE - FURNISHED BY GENERAL CONTRACTOR.
5. ELECTRIFIED TRANSFER HINGE (12 CONDUCTOR MINIMUM) AND WIREWAY TO CRASH BAR, FURNISHED BY DIVISION 08
6. CRASH BAR WITH ELECTRIFIED TRIM AND INTEGRATED REQUEST-TO-EXIT "REX" - CRASH BAR AND TRIM FURNISHED BY DIVISION 08. CONNECTION TO ELECTRIFIED TRANSFER HINGE FOR LOCK AND REX BY SECURITY CONTRACTOR. DOOR PREP BY GENERAL CONTRACTOR.
7. DOOR POSITION SWITCH - FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. DOOR AND FRAME PREP BY DIVISION 08.
8. COMPOSITE ACCESS CONTROL CABLE - FURNISHED BY AND INSTALLED BY SECURITY CONTRACTOR.

CARD ACCESS SINGLE DOOR WITH CARD READER & ELECTRIFIED TRANSFER HINGE | NTS | 02



KEY NOTES
1. 4"X4"X2-1/8" DEEP JUNCTION BOX (JB) ON SECURE SIDE, ABOVE ACCESSIBLE CEILING - FURNISHED BY GENERAL CONTRACTOR.
2. 1" CONDUIT TO (JB) FOR SECURITY COMPOSITE CABLE- FURNISHED BY SECURITY CONTRACTOR.
3. 3/4" CONDUIT TO (JB) FOR SECURITY DEVICES - FURNISHED BY GENERAL CONTRACTOR. TYPICAL FOR ALL DEVICES.
4. MANUAL CRASH BAR - FURNISHED BY DIVISION 08
5. DOOR POSITION SWITCH - FURNISHED BY DIVISION 08, CABLED BY SECURITY CONTRACTOR. DOOR AND FRAME PREP BY GENERAL CONTRACTOR.
6. 18AWG, 4C OR COMPOSITE ACCESS CONTROL CABLE - FURNISHED BY AND INSTALLED BY SECURITY CONTRACTOR.

SINGLE DOOR WITH DOOR POSITION SWITCH ONLY | NTS | 03

KEY NOTES
1. 4"X4"X2-1/8" DEEP JUNCTION BOX (JB) ON SECURE SIDE, ABOVE ACCESSIBLE CEILING - FURNISHED BY GENERAL CONTRACTOR.
2. 1" CONDUIT TO (JB) FOR SECURITY COMPOSITE CABLE- FURNISHED BY GENERAL CONTRACTOR.
3. 3/4" CONDUIT TO (JB) FOR SECURITY DEVICES - FURNISHED BY GENERAL CONTRACTOR. TYPICAL FOR ALL DEVICES.
4. READER - FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. SINGLE GANG ELECTRICAL BOX FLUSH MOUNTED 46" A.F.F. ON UNSECURED SIDE - FURNISHED BY GENERAL CONTRACTOR.
5. ELECTRIFIED TRANSFER HINGE (12 CONDUCTOR MINIMUM) AND WIREWAY TO CRASH BAR, FURNISHED BY DIVISION 08.
6. CRASH BAR WITH ELECTRIFIED TRIM AND INTEGRATED REQUEST-TO-EXIT "REX" - CRASH BAR AND TRIM FURNISHED BY DIVISION 08. CONNECTION TO ELECTRIFIED TRANSFER HINGE FOR LOCK AND REX BY SECURITY CONTRACTOR. DOOR PREP BY GENERAL CONTRACTOR.
7. NON-ELECTRIFIED CRASH BAR AND TRIM LOCK, FURNISHED BY DIVISION 08.
8. DOOR POSITION SWITCH - FURNISHED BY DIVISION 08. CABLED BY SECURITY CONTRACTOR. DOOR AND FRAME PREP BY GENERAL CONTRACTOR.
9. COMPOSITE ACCESS CONTROL CABLE - FURNISHED BY AND INSTALLED BY SECURITY CONTRACTOR.

CARD ACCESS DOUBLE DOOR WITH ELECTRIC TRANSFER HINGE | NTS | 04

KEY NOTES
1. 4"X4"X2-1/8" DEEP JUNCTION BOX (JB) ON SECURE SIDE, ABOVE ACCESSIBLE CEILING - FURNISHED BY GENERAL CONTRACTOR.
2. 1" CONDUIT TO (JB) FOR SECURITY COMPOSITE CABLE- FURNISHED BY GENERAL CONTRACTOR.
3. 3/4" CONDUIT TO (JB) FOR SECURITY DEVICES - FURNISHED BY GENERAL CONTRACTOR. TYPICAL FOR ALL DEVICES.
4. MANUAL CRASH BAR, CRASH BARS FURNISHED BY DIVISION 08.
5. DOOR POSITION SWITCH - FURNISHED BY DIVISION 08. CABLED BY SECURITY CONTRACTOR. DOOR AND FRAME PREP BY GENERAL CONTRACTOR.
6. COMPOSITE ACCESS CONTROL CABLE - FURNISHED BY AND INSTALLED BY SECURITY CONTRACTOR.

DOUBLE DOOR POSITION SWITCH | NTS | 05

NOTES:
1. REFER TO TELECOMMUNICATIONS ROOM PARTIAL PLANS FOR WALLFIELD LOCATIONS AND MOUNTING SURFACES.
2. THIS DETAIL IS FOR BASIC WALLFIELD CONFIGURATIONS ONLY, CABLE CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT TO ENSURE A NEAT AND WORKMANLIKE INSTALLATION OF ALL VIDEO SURVEILLANCE CAMERA CABLING.
3. COORDINATE POWER FOR SECURITY PANELS.

SECURITY PANEL DETAIL | NTS | 06

SYMBOL:

DURESS BUTTON | NTS | 07

SYMBOL: DR

DOOR RELEASE BUTTON | NTS | 08

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STATE PROJ. NO.	
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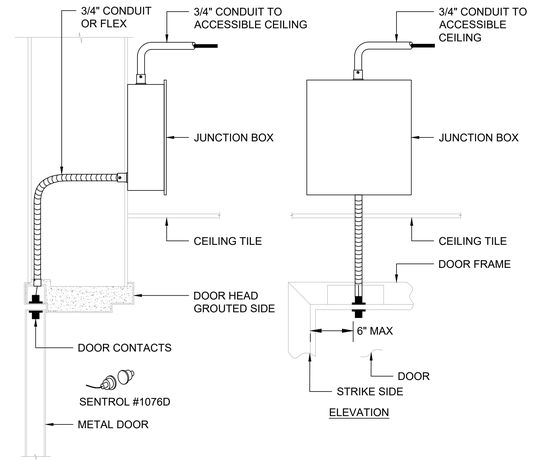
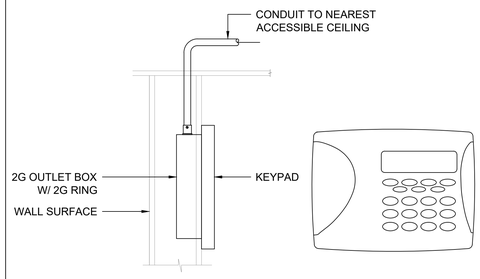


HEAD SECTION

NOTE:
1. SECURITY CONTRACTOR SHALL COORDINATE ALL DIMENSIONS FOR THE DOOR CONTACTS AND CONDUIT REQUIRED. SECURITY CONTRACTOR SHALL ENSURE THAT ALL CONTACTS ARE SECURELY FASTENED VIA THREAD & SCREWS WHILE USING FACTORY APPLIED MOUNTING TABS.

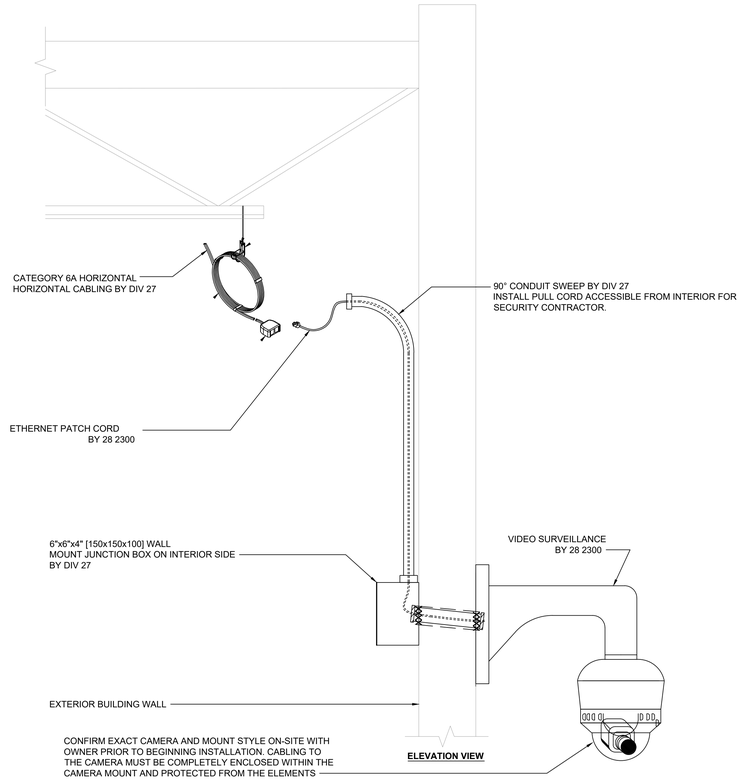
SYMBOL:	DC

JB - JUNCTION BOX & DOOR CONTACT DETAIL | NTS | 01



SYMBOL:	KPD

SECURITY KEYPAD DETAIL | NTS | 02



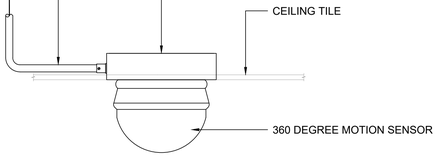
ELEVATION VIEW

NOTES:
1. LOCATION OF PENETRATION AND JUNCTION BOX SHALL BE COORDINATED BY THE TELECOMMUNICATIONS CONTRACTOR AND PROVIDED BY THE GENERAL CONTRACTOR. CONDUIT SHALL BE INSTALLED AT AN ANGLE, THE TOP OF THE CONDUIT (EXTERIOR) SHALL BE BELOW THE BOTTOM OF THE CONDUIT (INTERIOR) AS SHOWN ABOVE. PROVIDE A WATER TIGHT SEAL IN CONDUIT AFTER INSTALLATION.

2. NOT ALL PARTS SHOWN. CONTRACTOR SHALL ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES.

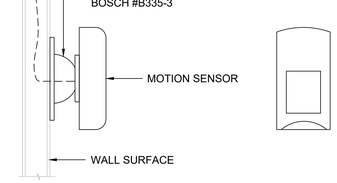
SYMBOL:	

EXTERIOR CAMERA - WALL MOUNT | NTS | 05



SYMBOL:	M

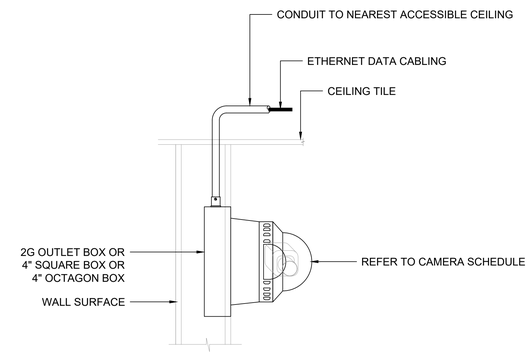
360 DEGREE MOTION SENSOR CEILING MOUNTED | NTS | 03



NOTES:
1. MOUNTING HEIGHT SHALL BE BETWEEN 7-1/2 & 9 FT AFF.

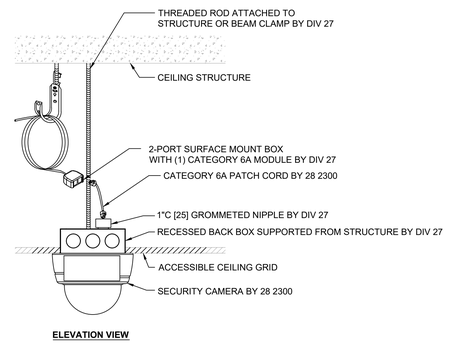
SYMBOL:	M

MOTION SENSOR WALL MOUNTED | NTS | 04



SYMBOL:	

INTERIOR CAMERA - WALL MOUNTED | NTS | 06



ELEVATION VIEW

NOTES:
1. PROVIDE BRACING AND/OR SUPPORT FOR CAMERA WHERE NECESSARY.

2. NOT ALL PARTS SHOWN. CONTRACTOR SHALL ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES.

SYMBOL:	

INTERIOR CAMERA - CEILING MOUNTED | NTS | 07

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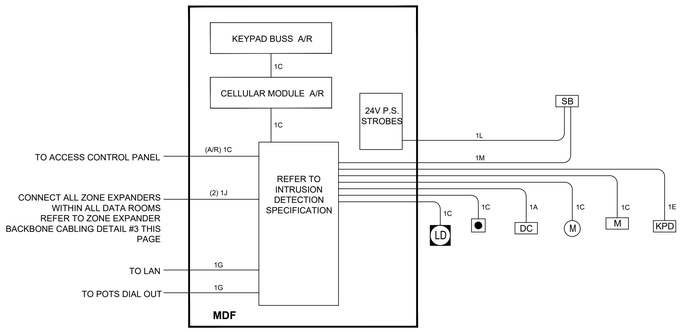
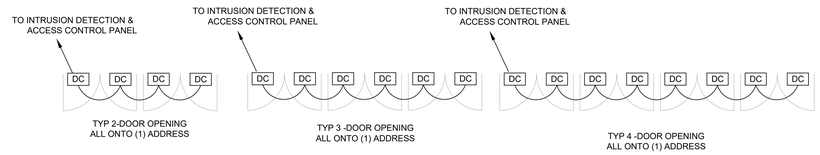




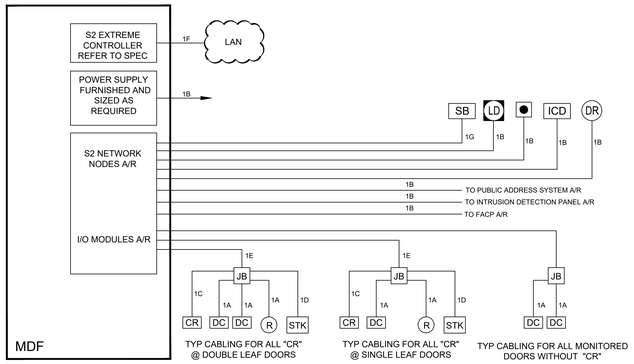
NOTES:
1. QUANTITY OF ZONE EXPANDERS AS REQUIRED IN EACH DATA ROOM.
2. ALL ZONE EXPANDERS SHALL BE LOCATED WITHIN THE DATA ROOMS.
3. ALL ZONE EXPANDERS MUST CONNECT VIA A #22-6C PLENUM RATED CABLE. THIS INCLUDES CONNECTIVITY OF ZONE EXPANDERS BETWEEN ALL DATA ROOMS AND THE SERVER ROOM.
4. ALL ENCLOSURES, CABLING, TERMINATIONS, CONFIGURATION AND FINAL TESTING IS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
5. ALL DEVICE CABLING MUST BE INSTALLED PER THE TECHNOLOGY "T" DRAWING DELINEATION SPECIFIED.
6. THIS SYSTEM SHALL BE AN ADDRESSABLE SYSTEM. EACH ENDPOINT, INCLUDING SENSORS, BUTTONS, AND DOOR CONTACTS, SHALL HAVE A UNIQUE IDENTIFIER ON THE SYSTEM AND SHALL TRANSMIT THAT UNIQUE IDENTIFIER TO THE CENTRAL MONITORING COMPANY.
7. THE INTRUSION DETECTION SYSTEM SHALL HAVE FULL INTEGRATION WITH THE ACCESS CONTROL SYSTEM, AT A MINIMUM:
   - 7.1. ALARMS FROM THE INTRUSION DETECTION SYSTEM SHALL TRANSMIT TO THE ACCESS CONTROL SYSTEM
   - 7.2. ALARMS FROM THE ACCESS CONTROL SYSTEM SHALL TRANSMIT TO THE INTRUSION DETECTION SYSTEM
   - 7.3. CREDENTIAL READERS ON THE ACCESS CONTROL SYSTEM SHALL BE CONFIGURED TO ARM OR DISARM THE INTRUSION DETECTION SYSTEM UPON PRESENTATION OF PREDETERMINED CREDENTIALS
   - 7.4. ALARMS FROM THE ACCESS CONTROL SYSTEM SHALL BE CONFIGURED TO TRIGGER AN ADDRESSABLE ALARM ON THE INTRUSION DETECTION SYSTEM AND SEND THIS NOTIFICATION TO CENTRAL MONITORING VIA IP, CELLULAR, AND POTS DIAL-OUT
   - 7.5. THE INTEGRATION PLATFORM FOR BOTH SYSTEM SHALL BE AN INTEGRATION THAT IS TESTED AND APPROVED FOR USE BY BOTH MANUFACTURERS
8. THE INTRUSION DETECTION SYSTEM SHALL BE CONFIGURED TO BE ARMED IN A "DAY-ALARM" WHICH WOULD NOTIFY THE ACCESS CONTROL SYSTEM GUI OF A PROPPED DOOR AND NOT DIAL-OUT TO CENTRAL MONITORING.
9. ALL ZONE EXPANDERS MUST CONNECT VIA A #22-6C PLENUM RATED CABLE. THIS INCLUDES CONNECTIVITY OF ZONE EXPANDERS BETWEEN ALL DATA ROOMS AND THE SERVER ROOM
10. (1) SPARE #22-6C PLENUM CABLE SHALL BE FURNISHED AND INSTALLED BETWEEN THE DATA ROOMS.
11. THE ROUTING SHOWN MAY BE ADJUSTED TO ALIGN WITH THE CONSTRUCTION PHASING.
12. THE SECURITY CABLES SHALL NOT SHARE ANY SLEEVE OR CONDUIT ASSIGNED TO THE TELA-DATA CABLING.
13. ALL CABLING SHALL BE LABELED AT BOTH ENDS.
14. EACH LOCKDOWN AND DURESS BUTTON SHALL BE CONNECTED, VIA SEPARATE CABLE TO THE INTRUSION DETECTION AND ACCESS CONTROL PANEL FOR REDUNDANCY. INCLUDE ALL RELAYS FOR A FULLY FUNCTIONAL SYSTEM AS REQUIRED.

EXPANSION MODULES CABLE DISTANCES BASED UPON CURRENT DRAW AND CABLE GAUGE (IF USING SHIELDED CABLE, DIVIDE THESE VALUES IN HALF)

TOTAL LOAD (MA @ 11.5 VDC)	22 AWG	20 AWG	18 AWG	16 AWG
1-8 MA	12,000 FEET	12,000 FEET	12,000 FEET	12,000 FEET
9-16 MA	7,270 FEET	11,710 FEET	12,000 FEET	12,000 FEET
17-24 MA	4,850 FEET	7,810 FEET	12,000 FEET	12,000 FEET
25-32 MA	3,640 FEET	5,850 FEET	9,260 FEET	12,000 FEET
33-40 MA	2,910 FEET	4,680 FEET	7,410 FEET	11,760 FEET
41-48 MA	2,420 FEET	3,900 FEET	6,170 FEET	9,800 FEET
49-56 MA	2,080 FEET	3,350 FEET	5,290 FEET	8,400 FEET
57-64 MA	1,820 FEET	2,930 FEET	4,630 FEET	7,350 FEET
65-72 MA	1,620 FEET	2,600 FEET	4,110 FEET	6,540 FEET
73-80 MA	1,450 FEET	2,340 FEET	3,700 FEET	5,880 FEET
81-88 MA	1,320 FEET	2,130 FEET	3,370 FEET	5,350 FEET
89-96 MA	1,210 FEET	1,950 FEET	3,090 FEET	4,900 FEET
97-104 MA	1,120 FEET	1,800 FEET	2,850 FEET	4,520 FEET
105-112 MA	1,040 FEET	1,670 FEET	2,650 FEET	4,200 FEET
113-120 MA	970 FEET	1,560 FEET	2,470 FEET	3,920 FEET
121-128 MA	910 FEET	1,460 FEET	2,310 FEET	3,680 FEET

DESIGNATION	WIRE TYPE
1A	#22 - 2C PLENUM
1B	#22 - 4C PLENUM
1C	#14 - 4C PLENUM
1D	#18 - 4C PLENUM
1E	#18 - 6C SHL'D PLENUM
1G	CAT 6 PLENUM CABLE
1H	CAT 6 PATCH CABLE
1J	#18-2C SOLID CONDUCTOR
1K	#22-6C PLENUM
1L	#18 - 2C INDOOR/OUTDOOR
1M	#14 - 2C INDOOR/OUTDOOR

TYPICAL INTRUSION DETECTION WIRING DIAGRAM | NTS | 01



TYP CABLING FOR ALL "CR" @ DOUBLE LEAF DOORS

TYP CABLING FOR ALL "CR" @ SINGLE LEAF DOORS

TYP CABLING FOR ALL MONITORED DOORS WITHOUT "CR"

ELECTRIC LOCKSETS, REQUEST TO EXIT DEVICES, AND DOOR POSITION SWITCHES REFER TO DIV 08 FOR DOOR HARDWARE

NOTES;
1. QTY OF S2 NETWORK NODES SHALL BE PER CARD READER QUANTITIES ON PLANS.
2. INCLUDE ALL REQUIRED ELEVATOR CONTROL LICENSES. COORDINATE ELEVATOR FUNCTIONALITY WITH OWNER AND ELEVATOR CONTRACTOR.
3. ALL REQUIRED CONTROL CABLING FROM THE DATA ROOMS TO EACH ACCESS CONTROL DEVICE IS REQUIRED AS PART OF HIS BID MANUAL.
4. ALL REQUIRED POWER CABLING TO EACH LOW VOLTAGE DEVICE AT EACH DOOR RECEIVING A CARD READER IS REQUIRED AS PART OF HIS BID MANUAL.
2. REFER TO DIVISION 08, DOOR HARDWARE SPECIFICATION TO ENSURE ALL REQUIRED POWER SUPPLIES AND SIZING OF SUCH SHALL ACCOMMODATE ALL CARD READERS, ELECTRONIC DOOR STRIKES / LOCKS AND REQUEST TO EXIT DEVICES WHICH ARE BUILT INTO THE DEVICES.
3. ALL FINAL TERMINATIONS, CONFIGURATION AND TESTING SHALL BE PERFORMED BY THE CONTRACTOR.
4. THE INTERCOM DOOR RELEASE AND DOOR RELEASE BUTTONS SHALL RELEASE THE DOORS FROM THE S2 PANEL.
5. CONTROL CABLING TO THE FIRE ALARM CONTROL PANEL SHALL BE CAPABLE OF RELEASING THE MAGNETIC HOLD OPEN DOORS AS NOTED ON THE DRAWINGS DURING A LOCKDOWN EVENT.
6. ACTIVATION OF THE LOCKDOWN OR DURESS BUTTONS SHALL REGISTER AS AN ADDRESSABLE ALARM ON THE INTRUSION DETECTION PANEL AND DIAL-OUT TO THE CENTRAL MONITORING COMPANY.

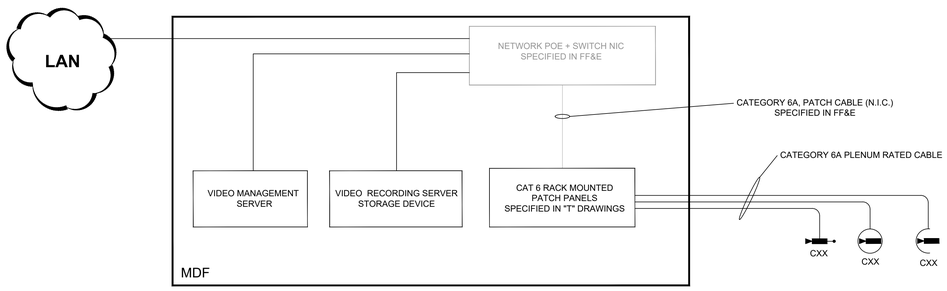
DESIGNATION	WIRE TYPE
1A	#22 - 2C, PLENUM
1B	CABLE A/R PER DEVICES & MANUFACTURER RECOMMENDATIONS
1C	#18-6C SH'D, PLENUM
1D	#18 - 2C SHL'D, PLENUM
1E	BELDEN #658AFJ COMPOSITE CABLE PLENUM or Equiv. #18-6C SHL'D, 22-2C, 22-4C, 18-4C
1G	#22-4C UNSHIELDED, SOLID, PLENUM

TYPICAL ACCESS CONTROL WIRING DIAGRAM | NTS | 01

MCMAHON CAMERA SCHEDULE

DEVICE #	MANUFACTURER	PART #	MOUNTING ASSEMBLY	MOUNTING HEIGHT	NOTES
C-E01	AXIS	P3267-LVE	WALL	9'-0" AFF	
C-E02	AXIS	P3719-PLE	WALL PENDANT	9'-0" AFF	
C-E03	AXIS	P3818-PVE	WALL	9'-0" AFF	INCLUDE SUN SHROUD
C-E04	AXIS	P3818-PVE	WALL	9'-0" AFF	INCLUDE SUN SHROUD
C-E05	AXIS	P3719-PLE	WALL PENDANT	9'-0" AFF	
C-E06	AXIS	P3818-PVE	WALL	9'-0" AFF	INCLUDE SUN SHROUD
C-01	AXIS	P3267-LV	CEILING	CEILING	
C-02	AXIS	P3267-LV	CEILING	CEILING	
C-03	AXIS	P3267-LV	CEILING	CEILING	
C-04	AXIS	P3267-LV	CEILING	CEILING	
C-05	AXIS	P3267-LV	WALL	8'-6" AFF	
C-06	AXIS	P3267-LV	WALL	10' AFF	
C-07	AXIS	P3267-LV	WALL	9'-0" AFF	
C-08	AXIS	P3267-LV	CEILING	CEILING	
C-09	AXIS	P3267-LV	WALL	8'-6" AFF	
C-10	AXIS	P3267-LV	CEILING	CEILING	
C-11	AXIS	P3267-LV	CEILING	CEILING	
C-12	AXIS	P3267-LV	WALL	8'-9" AFF	

VIDEO SURVEILLANCE CAMERA SCHEDULE | NTS | 04



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WIRING DIAGRAMS & VIDEO SURVEILLANCE CAMERA SCHEDULE

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