BLOOMFIELD PUBLIC LIBRARY

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

OCTOBER 7, 2022
DESIGN DEVELOPMENT

ARCHITECT

TSKP STUDIO

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

CIVIL ENGINEER

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410

STRUCTURAL

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

MEP

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

DRAWING LIST

SITE

	PROPERTY AND TOPOGRAPHIC SURVEY
C1.0	UTILITY DEMOLITION PLAN
C2.0	SITE PLAN - UTILITIES
C3.0	SEDIMENT AND EROSION CONTROL PLAN
C3.1	SEDIMENT AND EROSION CONTROL DETAILS AND SPECIFICATIONS
C3.2	SITE DETAILS
C3.3	SITE DETAILS

LANDSCAPE

L-100	SITE ILLUSTRATIVE PLAN
L-111	SITE PREPARATION PLAN
L-121	SITE MATERIALS / LAYOUT PLAN
L-131	SITE GRADING PLAN
L-141	SITE PLANTING PLAN
L-501	SITE DETAILS
L-502	SITE DETAILS
L-503	SITE DETAILS
L-504	CONNDOT DETAILS
L-505	CONNDOT DETAILS
L-506	CONNDOT DETAILS

GENERAL

A0.00	COVER
A0.01	GENERAL INFORMATION
A0.02	CODE PLAN
A0.03	WALL TYPES

DEMO

2	SAMPLING LOCATION PLAN McMAHON WINTONBURY LIBRARY HAZARDOUS MATERIALS SURVEY
D1.01	FIRST FLOOR PLAN AND REFLECTED CEILING PLAN - DEMO

ARCHITECTURAL

A1.01	FLOOR AND ROOF PLAN
A2.01	FIRST FLOOR REFLECTED CEILING PLAN
A2.31	CEILING DETAILS
A3.01	EXTERIOR ELEVATIONS
A3.11	BUILDING SECTIONS
A3.12	BUILDING SECTIONS
A4.01	WALL SECTION -1
A4.02	WALL SECTION -2
A4.21	SECTION AND PLAN DETAILS
A7.01	TOILET PLANS AND ELEVATIONS
A8.01	INTERIOR ELEVATIONS CORRIDOR TEENS AND CHILDRENS
A8.02	INTERIOR ELEVATIONS ADULTS, COMMUNITY, CAFE
A8.03	INTERIOR ELEVATIONS STAFF SPACE
A9.01	TPYICAL MILLWORK DETAILS
A9.02	MILWORK DETAILS
A10.00	FIRST FLOOR FINISH PLAN AND SCHEDULE
A11.01	DOOR SCHEDULE

STRUCTURAL

S-101	FOUNDATION PLAN
S-102	LOW ROOF FRAMING PLAN
S-103	ROOF FRAMING PLAN
S-200	COLUMN SCHEDULE AND DETAILS
S-201	BUILDING ELEVATIONS EXTERIOR
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S-600	TYPICAL DETAILS
S-601	TYPICAL DETAILS
S-602	TYPICAL DETAILS
S-700	GENERAL NOTES

MECHANICAL

M0.01	MECHANICAL GENERAL INFORMATION
MD1.01	FIRST FLOOR MECHANICAL DEMOLITION PLAN
MD1.02	ROOF MECHANICAL DEMOLITION PLAN
MP1.01	FIRST FLOOR MECHANICAL PIPE PLAN
M1.01	FIRST FLOOR MECHANICAL DUCT PLAN
M1.02	MECHANICAL ROOF PLAN
M2.00	MECHANICAL PART PLAN & ONE LINE PIPING DIAGRAM
M3.00	MECHANICAL DETAILS
M4.00	MECHANICAL DETAILS

ELECTRICAL

E0.01	ELECTRICAL GENERAL INFORMATION
ED1.01	LIGHTING PLAN DEMOLITION
ED2.01	POWER PLAN DEMOLITION
ES1.01	SITE ELECTRICAL PLAN
E1.01	LIGHTING PLAN
E2.01	POWER PLAN
E2.02	ROOF PLAN
E3.01	ELECTRICAL SCHEDULES
E3.02	PANEL SCHEDULES
E4.01	ELECTRICAL DETAILS
E4.02	ELECTRICAL DETAILS

PLUMBING

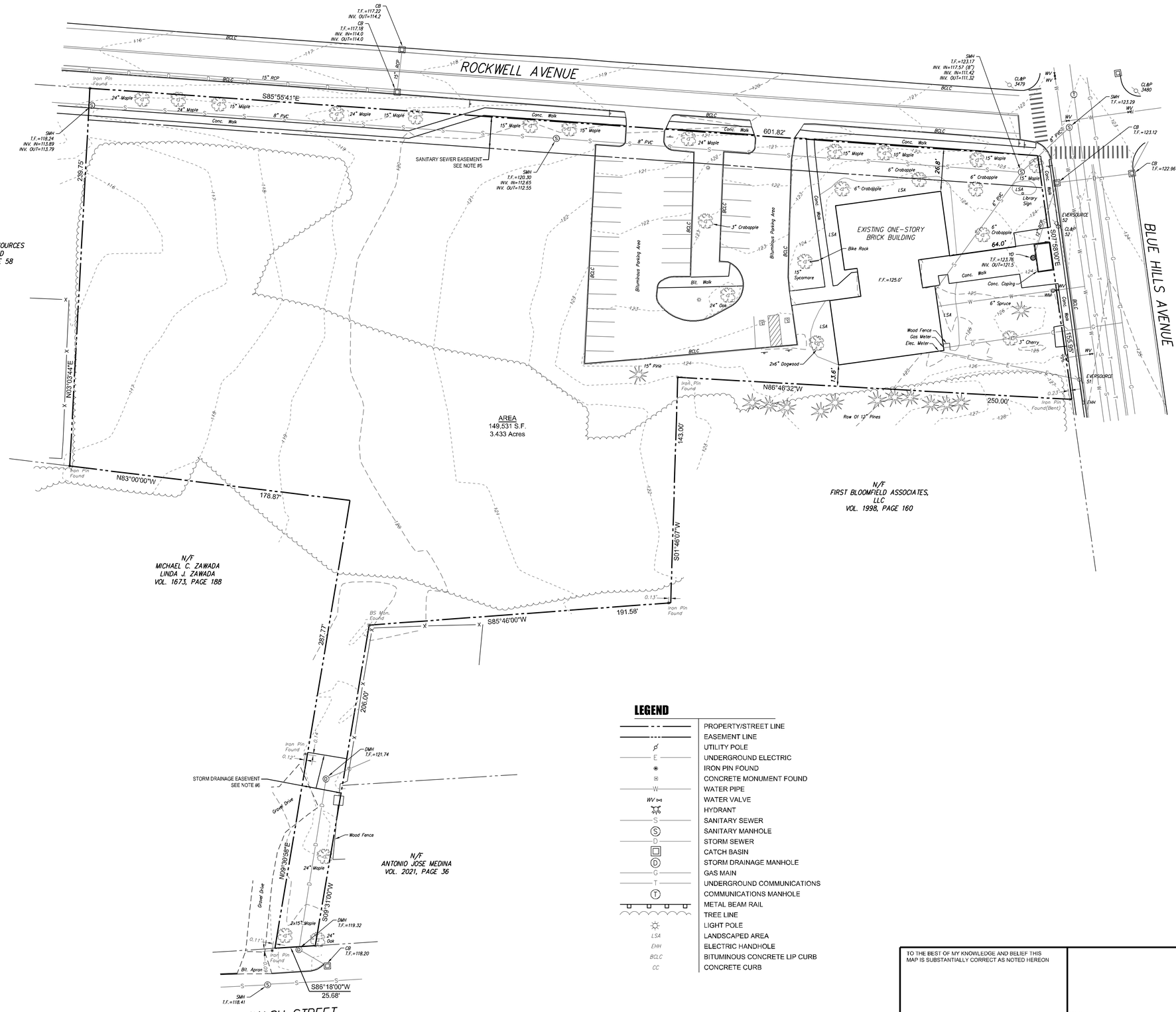
P0.01	PLUMBING GENERAL INFORMATION
PD1.01	FIRST FLOOR PLUMBING DEMOLITION PLAN
PD1.02	ROOF PLUMBING DEMOLITION PLAN
P1.01	FIRST FLOOR DRAINAGE PLAN
P1.02	PLUMBING ROOF PLAN
P2.01	FIRST FLOOR PLUMBING SUPPLY PLAN
P3.01	PLUMBING DETAILS
P3.02	PLUMBING DETAILS
P4.01	PLUMBING SCHEDULES

LOCATION PLAN

APPROVALS

PUBLIC WORKS DATE

AGENCY DATE



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

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'.

PROPERTY AND TOPOGRAPHIC SURVEY

LAND NOW OR FORMERLY OF

TOWN OF BLOOMFIELD

VOLUME 25, PAGE 455

#1015 BLUE HILLS AVENUE

BLOOMFIELD, CONNECTICUT

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:

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

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 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) UNLESS OTHERWISE INDICATED.
9. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF FARMINGTON 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 UTILITIES.

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 SUCH THAT NONE OF THE ABOVE ENTER WATERS OR WETLANDS.
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	
HYD	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	

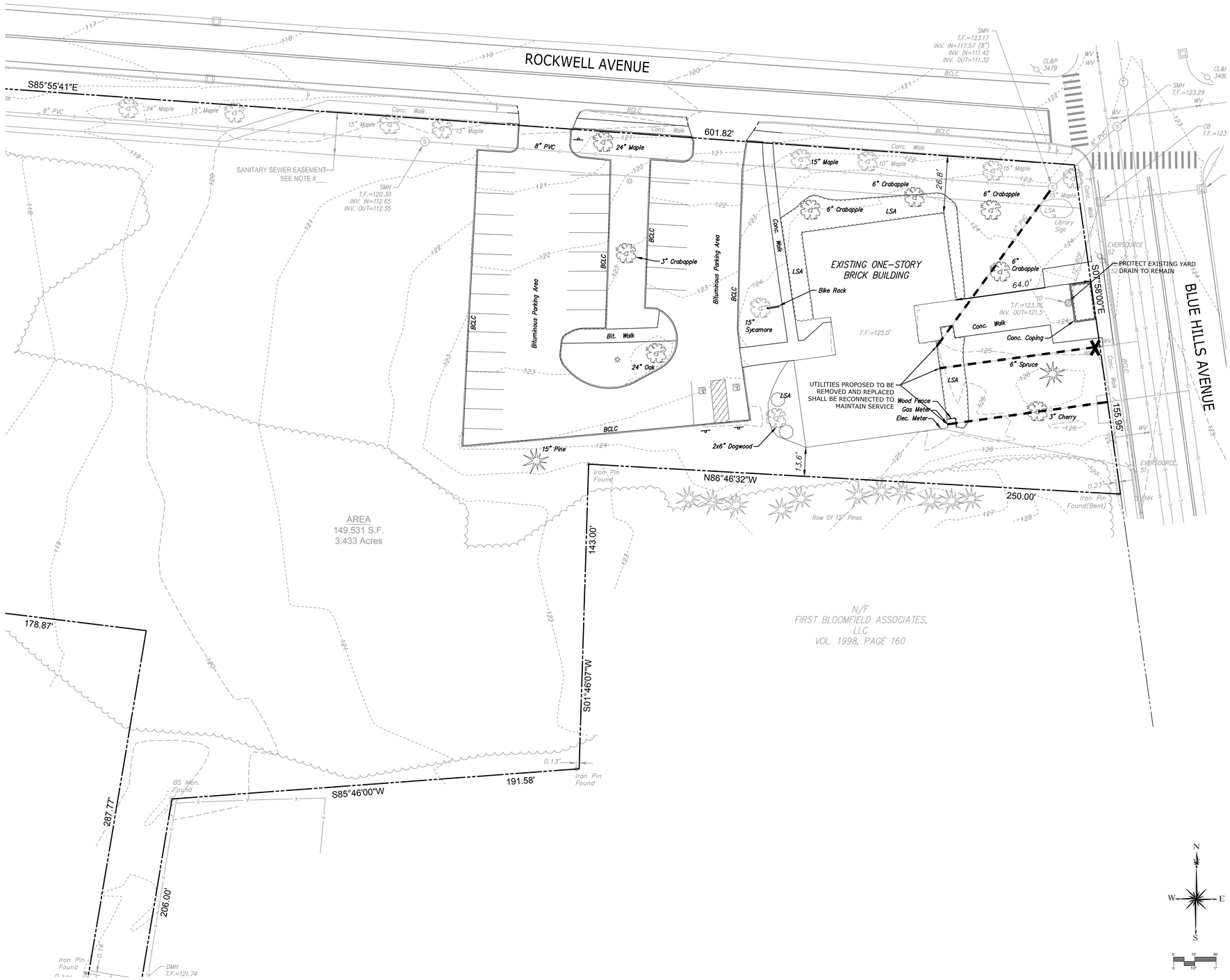
REMOVALS LEGEND

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 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 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.



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

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
UTILITY DEMOLITION PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C1.0

PLOTTED: 10/6/2022 1:57:39 PM BY: RYE
FILE: N:\220103\CAD\PLOT STYLES\ SLR_CONSTRUCTION.CTB

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

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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BLOOMFIELD, CT 06002

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SITE PLAN - UTILITIES

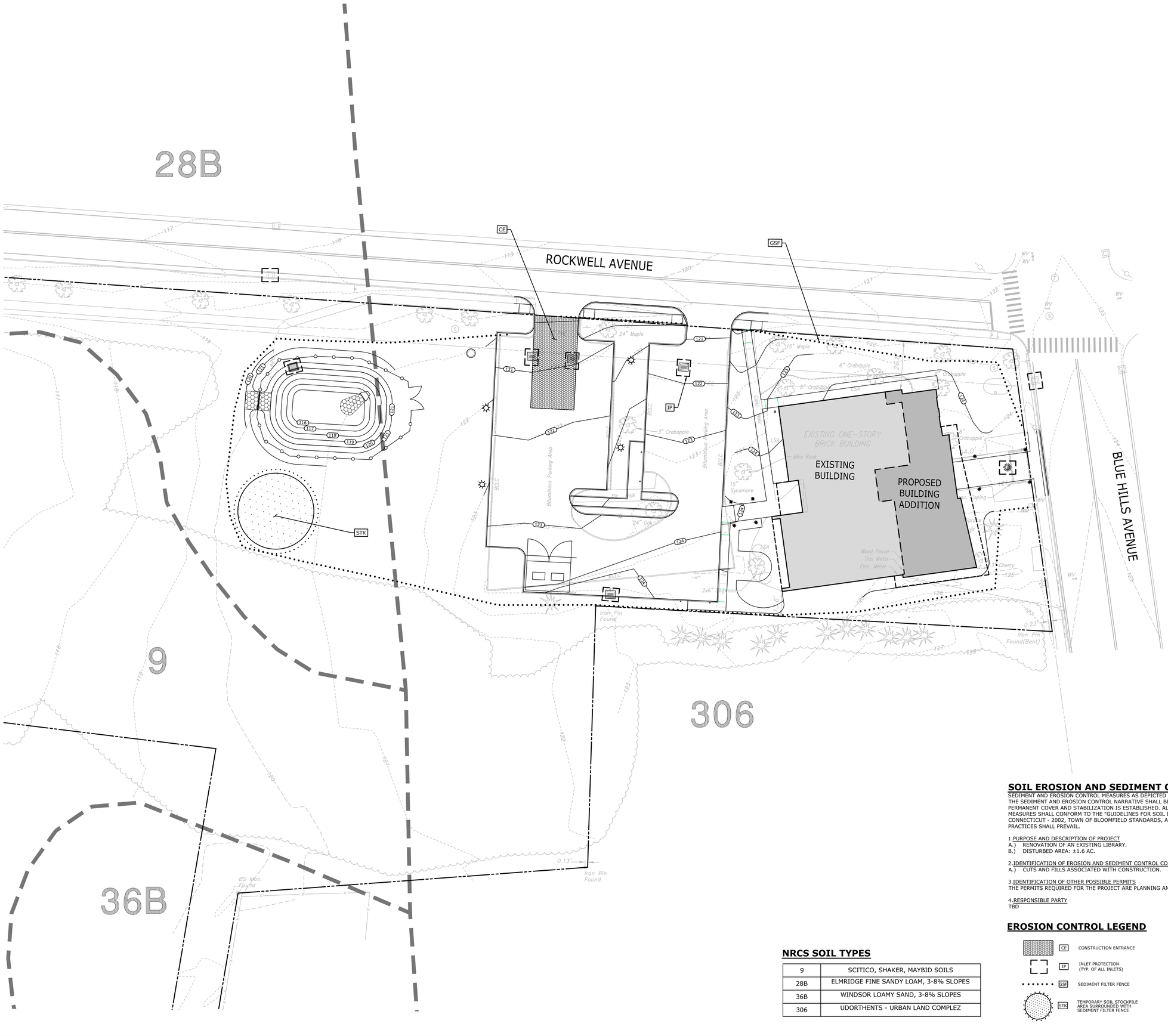
STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C2.0

Plotted: 10/6/2022 10:50:00 AM By: RYE
Filename: C:\USERS\RYE\DESKTOP\WORK_LOCAL\220103_MWLA_CENTRAL_SHEETS_RYE.DWG



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: ±1.6 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
TBD

EROSION CONTROL LEGEND

- CE — CONSTRUCTION ENTRANCE
- 1P — INLET PROTECTION (TYP. OF ALL INLETS)
- GSF — SEDIMENT FILTER FENCE
- STK — TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE

N W E S

0' 10' 20'
0 10' 1"

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C3.0

Plotted: 10/06/2022 11:20:00 AM By: Ryan Eaton
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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:

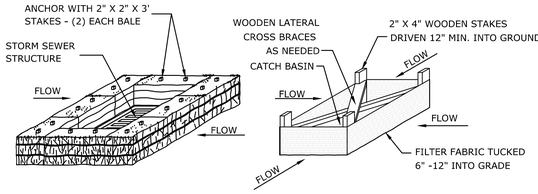
1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

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.

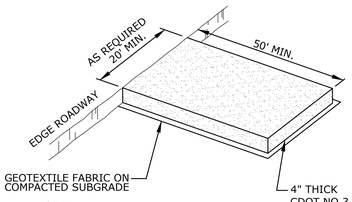


HAY BALE INSTALLATION AT CATCH BASIN

SEDIMENT FILER FENCE INSTALLATION AT CATCH BASIN

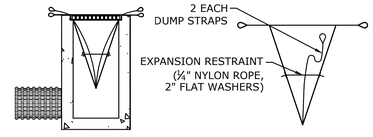
CATCH BASIN IN A DEPTHRESSION

INLET PROTECTION
NOT TO SCALE

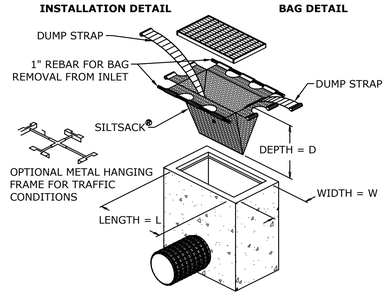


NOTE:
1. CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD

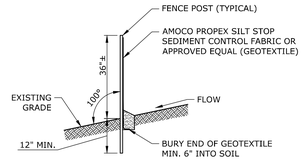
CONSTRUCTION ENTRANCE PAD
NOT TO SCALE



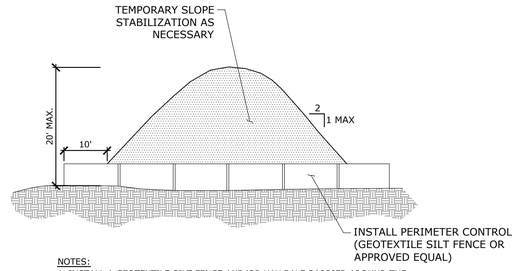
INSTALLATION DETAIL **BAG DETAIL**



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) (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.

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STATE PROJ NO.	
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SCALE	AS NOTED
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C3.1

PLOTTED: 6 DEC 2022 7:56:19a By: Ryan Eve
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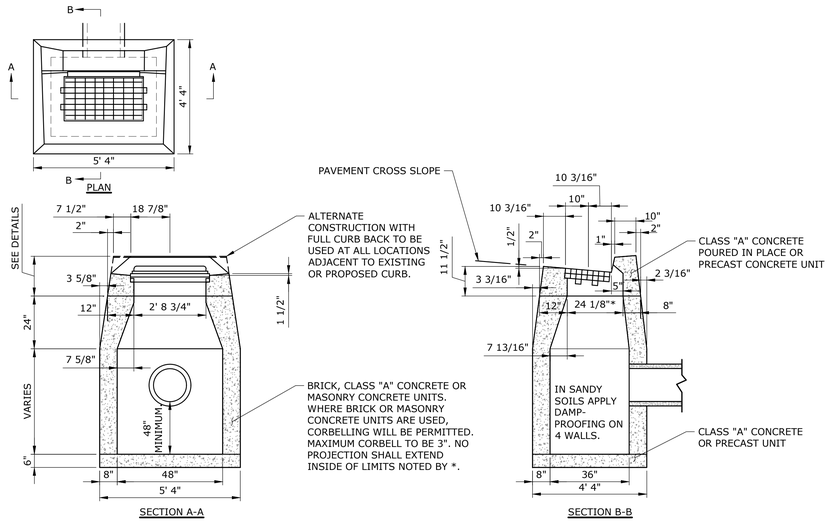
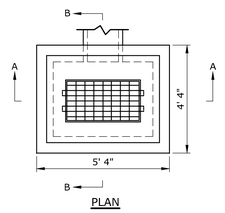


NOTES:

1. WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT, THE 1/2" SLOPE ON THE TOP SURFACE SHALL BE CHANGED TO MATCH ADJOINING PAVEMENT.
2. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.

TYPE "C" CATCH BASIN

NOT TO SCALE

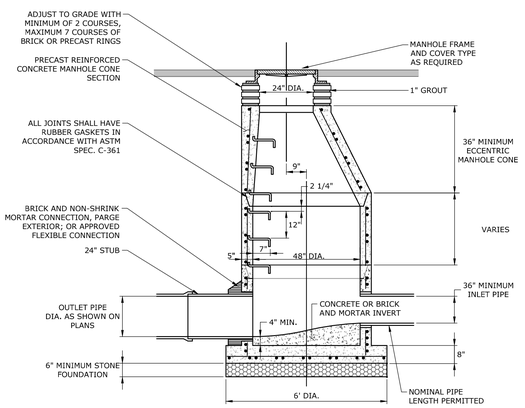


NOTES:

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.

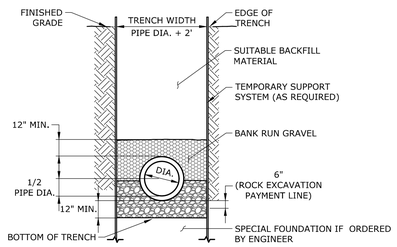
TYPE "C-L" CATCH BASIN

NOT TO SCALE



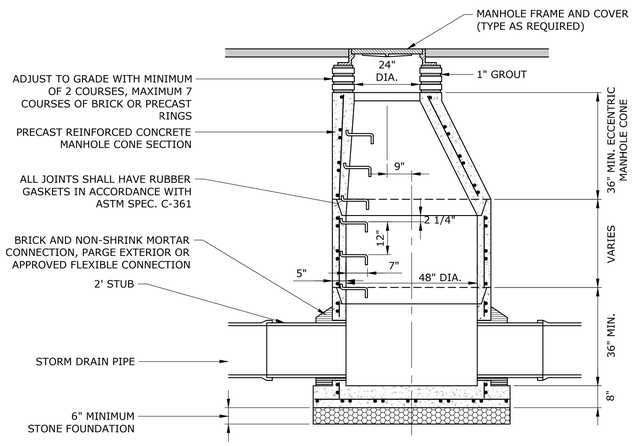
PRECAST CONCRETE SANITARY MANHOLE

NOT TO SCALE



SANITARY SEWER TRENCH

NOT TO SCALE

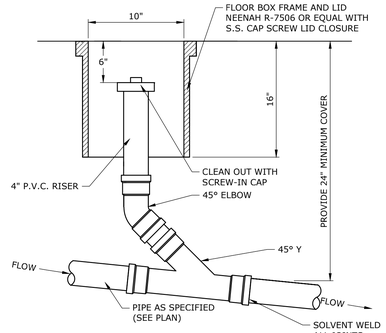


NOTES:

1. 5' OR 6' DIAMETER PRECAST BASES MAY BE REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' OR 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE BY 1" FOR EACH 1'-0" OF INSIDE DIAMETER.

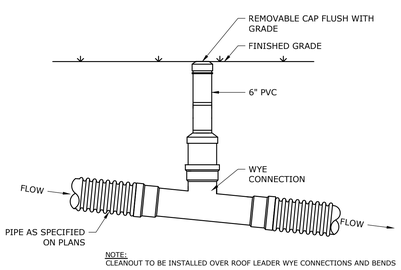
PRECAST CONCRETE STORM DRAINAGE MANHOLE

NOT TO SCALE



ROOF LEADER CLEAN OUT FOR PAVED SURFACES

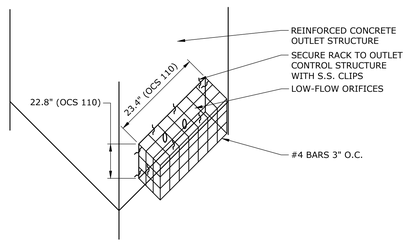
NOT TO SCALE



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

ROOF LEADER CLEAN OUT FOR UNPAVED SURFACES

NOT TO SCALE



OUTLET STRUCTURE TRASH GRATE

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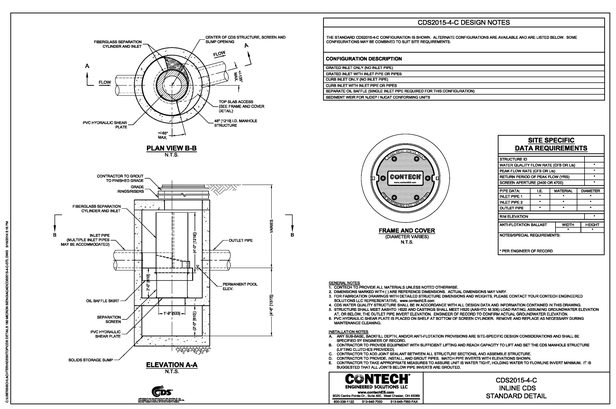
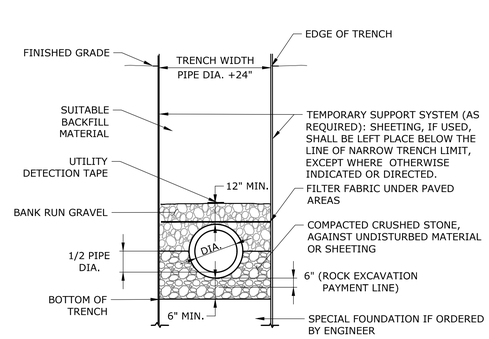


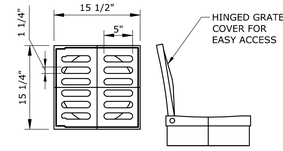
CONTECH CDS 2015-4-C

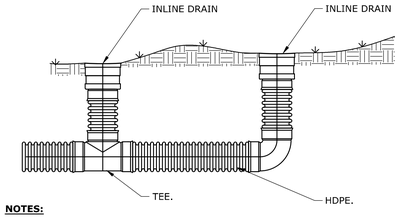
NOT TO SCALE



TYPICAL TRENCH SECTION STORM DRAIN AND CULVERTS

NOT TO SCALE



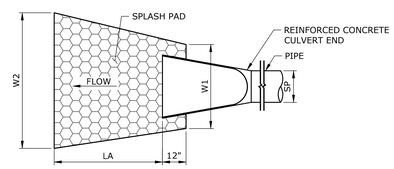


NOTES:

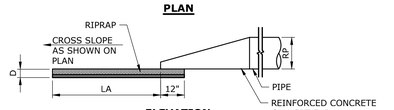
1. ALL AREA DRAIN GRATES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS.
   1.1. 15" CAST IRON GRATE DRAIN AREA = 92.5SQ. INCH GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING .
   1.2. MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B.
   1.3. CASTINGS ARE FURNISHED WITH A BLACK PAINT.
   1.4. INLINE DRAIN TO BE NYLOPLAST INC OR APPROVED EQUAL.

AREA DRAIN AND GRATE

NOT TO SCALE



PLAN



ELEVATION

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

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

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

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	AS NOTED
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C3.2

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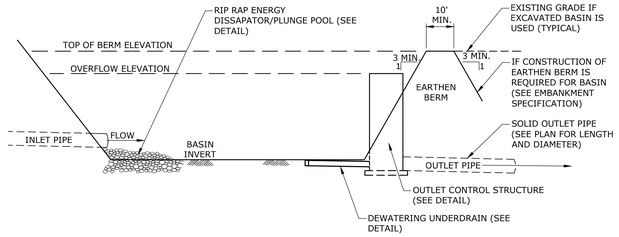


NOTES:

1. WHERE LEDGE IS ENCOUNTERED, OVER EXCAVATE BY 2 FEET AND REPLACE WITH 18" OF SOIL AND 6" OF TOPSOIL. TOPSOIL IN THE BOTTOM OF ALL BASINS IS TO BE 6" DEEP AND 6% MINIMUM ORGANIC CONTENT.

TYPICAL DETENTION BASIN

NOT TO SCALE

FORMATION OF EMBANKMENTS FOR STORMWATER BASINS

1. MATERIALS

ALL FILL MATERIALS SHALL BE OBTAINED FROM REQUIRED EXCAVATIONS OR DESIGNATED BORROW AREAS. FILL MATERIAL SHALL CONTAIN NO FROZEN MATERIAL, SOD, BRUSH, ROOTS, OR OTHER ORGANIC MATERIAL. EARTH EMBANKMENTS SHALL CONTAIN NO STONES OR ROCK PARTICLES OVER THREE INCHES IN DIAMETER.

THE MATERIAL USED IN THE CENTER PORTION OF THE EMBANKMENT SHALL BE THE MOST IMPERVIOUS MATERIAL OBTAINED FROM THE BORROW AREAS IF REQUIRED. THE MORE PERVIOUS MATERIALS SHALL BE USED IN THE OUTER PORTION OF THE EMBANKMENT AS SHOWN ON THE PLANS.

A. IMPERVIOUS FILL MATERIALS

IMPERVIOUS FILL SHALL BE A GLACIAL TILL, AND TO BE PROVIDED FROM AN OFFSITE SOURCE IN THE QUANTITIES REQUIRED FOR COMPLETION. FILL TO BE APPROVED BY THE ENGINEER. GLACIAL TILL SHALL CONSIST OF HARD AND DURABLE PARTICLES OR FRAGMENTS AND SHALL BE FREE FROM ORGANIC MATTER AND OTHER OBJECTIONABLE MATERIALS. GLACIAL TILL SHALL GENERALLY CONFORM TO THE FOLLOWING GRADATION LIMITS:

U.S. STANDARD SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
3 INCH	100
NO. 4	60-95
NO. 10	50-95
NO. 40	30-75
NO. 100	20-65
NO. 200	10-40

2. EMBANKMENT FOUNDATION PREPARATION

AREAS WHERE EMBANKMENTS ARE TO BE FORMED SHALL BE CLEARED AND GRUBBED OF ALL TOPSOIL AND OTHER ORGANIC MATERIALS TO A DEPTH OF AT LEAST 24 INCHES. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, FOUNDATION AREAS SHALL BE SCARIFIED TO A DEPTH OF THREE INCHES PRIOR TO PLACEMENT OF FILL MATERIAL.

3. PLACEMENT

NO FILL SHALL BE PLACED UNTIL THE FOUNDATION PREPARATION AND EXCAVATIONS IN THE FOUNDATION HAVE BEEN COMPLETED. NO FILL SHALL BE PLACED ON A FROZEN SURFACE NOR SHALL FROZEN MATERIAL BE INCORPORATED.

A. EMBANKMENT

MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS. THE THICKNESS OF LAYERS SHALL BE SIX INCHES. DURING CONSTRUCTION, THE SURFACE OF THE FILL SHALL HAVE A CROWN OR CROSS-SLOPE OF NOT LESS THAN TWO PERCENT. EACH LAYER OR LIFT SHALL EXTEND OVER THE ENTIRE AREA OF THE FILL.

THE FILL SHALL BE FREE FROM LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFERING SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. THE MORE PERVIOUS MATERIAL SHALL BE PLACED IN THE OUTSIDE PORTION OF THE EMBANKMENT OR AS INDICATED ON THE DRAWINGS. THE FINISHED FILL SHALL BE SHAPED AND GRADED TO THE LINES AND GRADE SHOWN ON THE DRAWINGS.

B. BACKFILL AT THE PIPE OUTLET

BACKFILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED THREE INCHES IN THICKNESS AND SHALL BE BROUGHT UP UNIFORMLY AROUND THE OUTLET PIPE AND FLARED END SECTION

4. MOISTURE CONTROL

THE MOISTURE CONTENT OF MATERIALS IN THE EMBANKMENT SHALL BE CONTROLLED TO MEET THE REQUIREMENTS OF SECTION 5, "COMPACTION OF EMBANKMENT," WHEN NECESSARY, MOISTURE SHALL BE ADDED BY USE OF APPROVED SPRINKLING EQUIPMENT. WATER SHALL BE ADDED UNIFORMLY AND EACH LAYER SHALL BE THOROUGHLY DISKED OR HARROWED TO PROVIDE ROPER MIXING. ANY LAYER FOUND TOO WET FOR PROPER COMPACTION SHALL BE ALLOWED TO DRY BEFORE ROLLING. PLACING OR ROLLING OF MATERIAL ON EARTH FILLS WILL NOT BE PERMITTED DURING OR IMMEDIATELY AFTER RAINFALLS WHICH INCREASE THE MOISTURE CONTENT BEYOND THE LIMIT OF SATISFACTORY COMPACTION. THE EARTH FILL SHALL BE BROUGHT UP UNIFORMLY AND ITS TOP SHALL BE KEPT GRADED AND SLOPED SO THAT A MINIMUM OF RAINWATER WILL BE RETAINED THEREON. COMPACTED EARTH FILL DAMAGED BY WASHING SHALL BE ACCEPTABLY REPLACED BY THE CONTRACTOR.

5. COMPACTION

A. EMBANKMENT

EMBANKMENT MATERIAL SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY AT NEAR OPTIMUM MOISTURE CONTENT AND BY THE COMPACTION EQUIPMENT SPECIFIED HEREIN. THE COMPACTION EQUIPMENT SHALL TRAVERSE THE ENTIRE SURFACE OF EACH LAYER OF FILL MATERIAL.

APPROVED TAMPING ROLLERS SHALL BE USED FOR COMPACTING ALL PARTS OF THE EMBANKMENTS WHICH THEY CAN EFFECTIVELY REACH. THE CONTRACTOR SHALL DEMONSTRATE THE EFFECTIVENESS OF THE ROLLER BY ACTUAL SOIL COMPACTION RESULTS OF THE SOIL TO BE USED IN THE EMBANKMENT WITH LABORATORY WORK PERFORMED BY AN APPROVED SOIL TESTING LABORATORY.

B. BACKFILL AT OUTLET CONDUIT

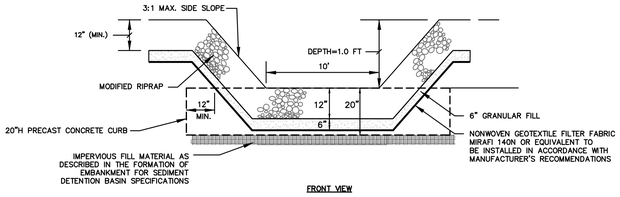
BACKFILL SHALL BE COMPACTED BY HAND TAMPING WITH MECHANICAL TAMPERS. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN TWO FEET OF ANY STRUCTURE. EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE OUTLET CONDUITS UNTIL THERE IS 24 INCHES OF FILL OVER THE PIPE CONDUITS.

6. FINISHING EMBANKMENTS

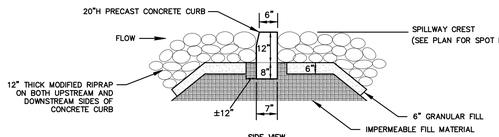
THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE ELEVATIONS, LINES, GRADES AND CROSS-SECTIONS AS SHOWN ON THE DRAWINGS. THE EMBANKMENTS SHALL BE MAINTAINED IN A MANNER SATISFACTORY TO THE ENGINEER AND SURFACES SHALL BE COMPACT AND ACCURATELY GRADED BEFORE TOPSOIL IS PLACED ON THEM. THE CONTRACTOR SHALL CHECK THE EMBANKMENT SLOPES WITH STRING LINES TO INSURE THAT THEY CONFORM TO THE SLOPES GIVEN ON THE PLANS AND ARE UNIFORM FOR THE ENTIRE LENGTH OF THE SLOPE.

7. CONTROL OF WATER

THE PROJECT SITE IS SUBJECT TO HIGH WATER TABLE. THE CONTRACTOR SHALL USE TEMPORARY PIPES OR PUMPS TO ASSURE PLACEMENT OF SELECT FILL IN DRY CONDITIONS.



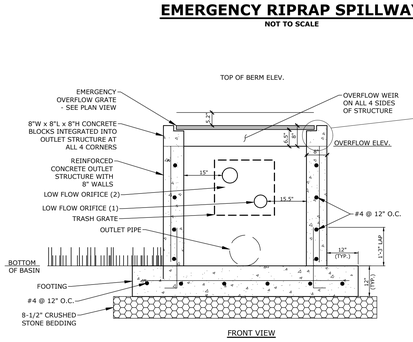
FRONT VIEW



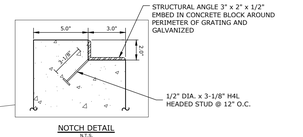
SIDE VIEW

EMERGENCY RIPRAP SPILLWAY

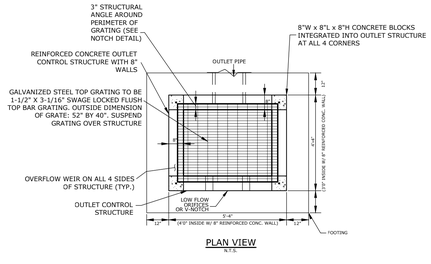
NOT TO SCALE



FRONT VIEW



NOTCH DETAIL
N.T.S.

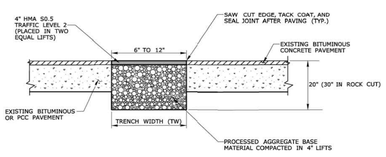


PLAN VIEW
N.T.S.

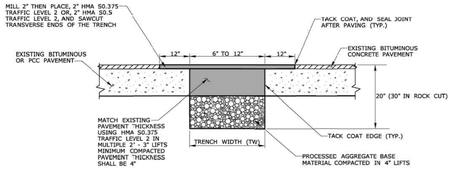
	DET 210
TOP OF BERM ELEVATION	121.0
OVERFLOW ELEVATION	119.9
100-YEAR WATER SURFACE ELEV.	119.9
LOW FLOW ORIFICE DIAMETER (1)	5.0"
LOW FLOW ORIFICE INVERT (1)	117.9
LOW FLOW ORIFICE DIAMETER (2)	6.0"
LOW FLOW ORIFICE INVERT (2)	118.7
OUTLET PIPE DIAMETER	12"
OUTLET PIPE INVERT	116.0
BASIN BOTTOM ELEVATION	116.0

DETENTION BASIN OUTLET CONTROL STRUCTURE

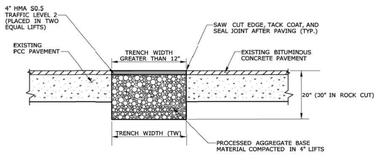
SCALE: 1"=2'



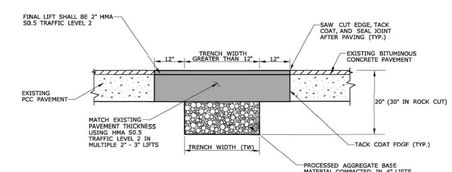
TEMPORARY PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")



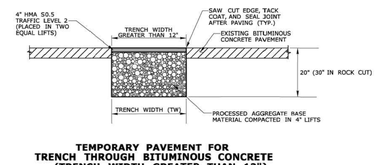
PERMANENT PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")



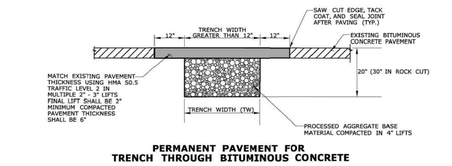
TEMPORARY PAVEMENT FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH GREATER THAN 12")



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:

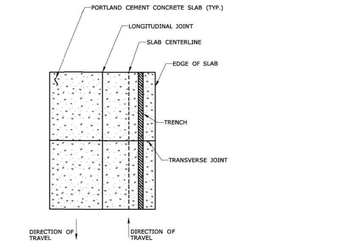
a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

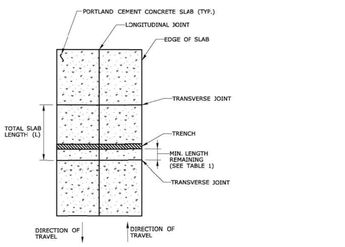
TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

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"



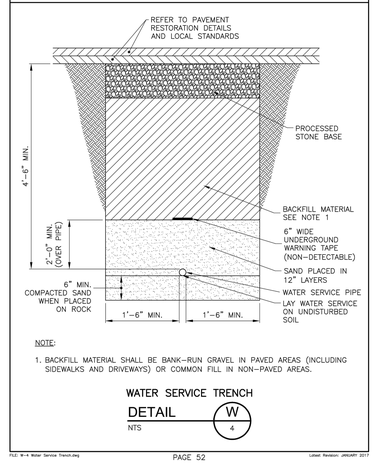
LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 1)



TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 2)

THE METROPOLITAN DISTRICT
WATER STANDARD DETAILS

MDC



NOTE:

1. BACKFILL MATERIAL SHALL BE BANK-RUN GRAVEL IN PAVED AREAS (INCLUDING SIDEWALKS AND DRIVEWAYS) OR COMMON FILL IN NON-PAVED AREAS.

WATER SERVICE TRENCH DETAIL W 4
NTS

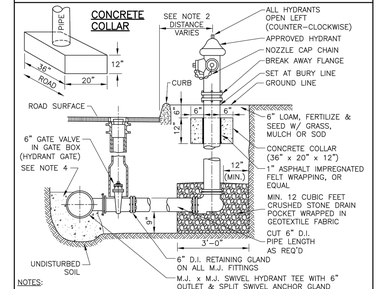
FILE: W-4 Water Service Trench.dwg

PAGE 52

Latest Revision: JANUARY 2017

THE METROPOLITAN DISTRICT
WATER STANDARD DETAILS

MDC



NOTES:

1. INSTALL 6" WIDE UNDERGROUND WARNING TAPE (NON-DETECTABLE) 2'-FT ABOVE LENGTH OF HYDRANT BRANCH.
2. DISTANCE SHALL BE 3'± IN BLOOMFIELD, FARMINGTON AND GLASTONBURY AND 2'± IN OTHER MEMBER TOWNS.
3. OFFSET HYDRANT LATERAL TO INSTALL AT SAME DEPTH OF COVER AS THE DISTRIBUTING MAIN. FURNISH AND INSTALL EXTENSIONS WHEN REQUIRED FOR GREATER DEPTHS. EXTENSIONS SHOULD ONLY BE USED IF AN OFFSET IF NOT POSSIBLE.
4. POURED CONCRETE THRUST BLOCK TO BE INSTALLED AFTER TAP IS MADE. PROTECT NUTS AND BOLTS FROM CONCRETE WITH 6 MIL POLY COVER OR EQUAL.

STANDARD FIRE HYDRANT ASSEMBLY DETAIL W 22
NTS

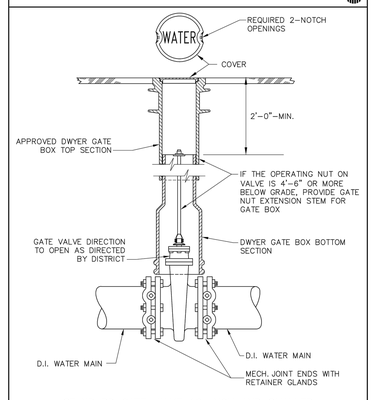
File: W-22 Standard Fire Hydrant Assembly.dwg

PAGE 70

Latest Revision: JANUARY 2017

THE METROPOLITAN DISTRICT
WATER STANDARD DETAILS

MDC



STANDARD GATE VALVE 12-INCH AND SMALLER DETAIL W 12
NTS

File: W-12 Standard Gate Valve 12-Inch and Smaller.dwg

PAGE 60

Latest Revision: JANUARY 2017

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

PROJECT NUMBER: ####
PROJECT DESCRIPTION: ####
TOWN(S): ####
DRAWING TITLE: PAVEMENT REPAIR
DRAWING NO.: ####
SHEET NO.:

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

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1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	AS NOTED
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C3.3

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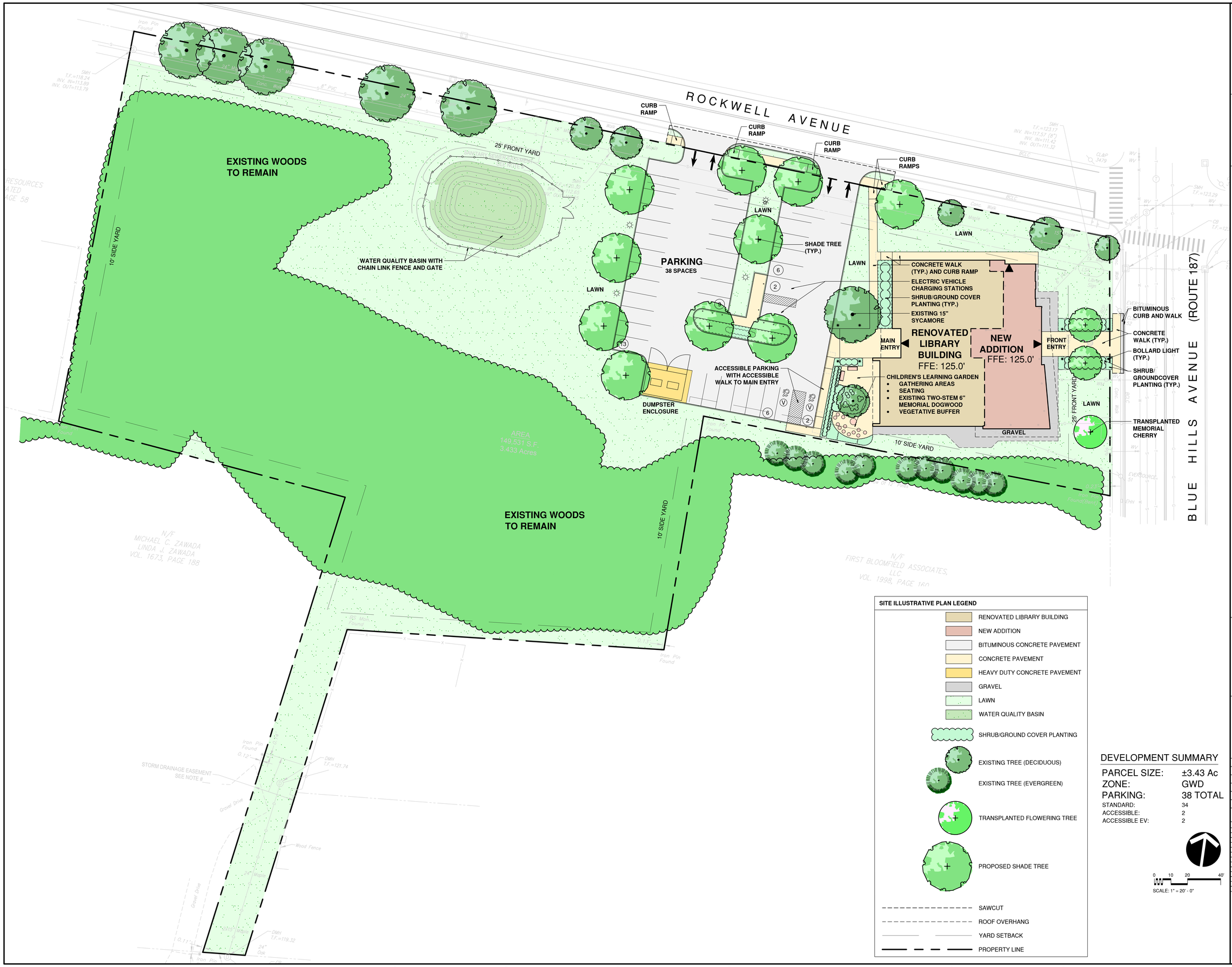

SITE ILLUSTRATIVE PLAN LEGEND

- RENOVATED LIBRARY BUILDING
- NEW ADDITION
- BITUMINOUS CONCRETE PAVEMENT
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- GRAVEL
- LAWN
- WATER QUALITY BASIN
- SHRUB/GROUND COVER PLANTING
- EXISTING TREE (DECIDUOUS)
- EXISTING TREE (EVERGREEN)
- TRANSPLANTED FLOWERING TREE
- PROPOSED SHADE TREE
- SAWCUT
- ROOF OVERHANG
- YARD SETBACK
- PROPERTY LINE

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
DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SITE ILLUSTRATIVE PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-100

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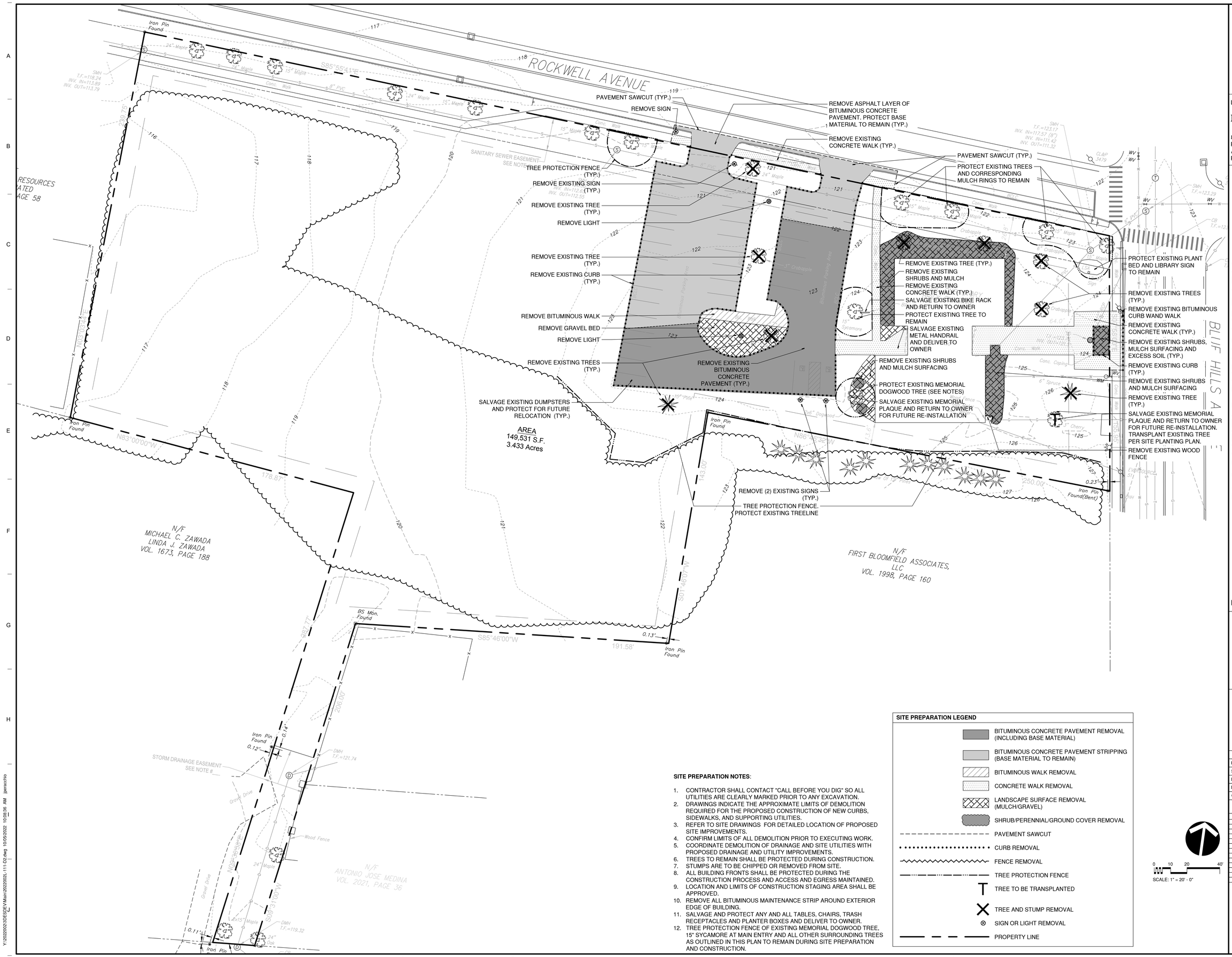

SITE PREPARATION NOTES:

1. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" SO ALL UTILITIES ARE CLEARLY MARKED PRIOR TO ANY EXCAVATION.
2. DRAWINGS INDICATE THE APPROXIMATE LIMITS OF DEMOLITION REQUIRED FOR THE PROPOSED CONSTRUCTION OF NEW CURBS, SIDEWALKS, AND SUPPORTING UTILITIES.
3. REFER TO SITE DRAWINGS FOR DETAILED LOCATION OF PROPOSED SITE IMPROVEMENTS.
4. CONFIRM LIMITS OF ALL DEMOLITION PRIOR TO EXECUTING WORK.
5. COORDINATE DEMOLITION OF DRAINAGE AND SITE UTILITIES WITH PROPOSED DRAINAGE AND UTILITY IMPROVEMENTS.
6. TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.
7. STUMPS ARE TO BE CHIPPED OR REMOVED FROM SITE.
8. ALL BUILDING FRONTS SHALL BE PROTECTED DURING THE CONSTRUCTION PROCESS AND ACCESS AND EGRESS MAINTAINED.
9. LOCATION AND LIMITS OF CONSTRUCTION STAGING AREA SHALL BE APPROVED.
10. REMOVE ALL BITUMINOUS MAINTENANCE STRIP AROUND EXTERIOR EDGE OF BUILDING.
11. SALVAGE AND PROTECT ANY AND ALL TABLES, CHAIRS, TRASH RECEPTACLES AND PLANTER BOXES AND DELIVER TO OWNER.
12. TREE PROTECTION FENCE OF EXISTING MEMORIAL DOGWOOD TREE, 15" SYCAMORE AT MAIN ENTRY AND ALL OTHER SURROUNDING TREES AS OUTLINED IN THIS PLAN TO REMAIN DURING SITE PREPARATION AND CONSTRUCTION.

SITE PREPARATION LEGEND

- BITUMINOUS CONCRETE PAVEMENT REMOVAL (INCLUDING BASE MATERIAL)
- BITUMINOUS CONCRETE PAVEMENT STRIPPING (BASE MATERIAL TO REMAIN)
- BITUMINOUS WALK REMOVAL
- CONCRETE WALK REMOVAL
- LANDSCAPE SURFACE REMOVAL (MULCH/GRAVEL)
- SHRUB/PERENNIAL/GROUND COVER REMOVAL
- PAVEMENT SAWCUT
- CURB REMOVAL
- FENCE REMOVAL
- TREE PROTECTION FENCE
- T TREE TO BE TRANSPLANTED
- TREE AND STUMP REMOVAL
- SIGN OR LIGHT REMOVAL
- PROPERTY LINE

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

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE PREPARATION PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-111

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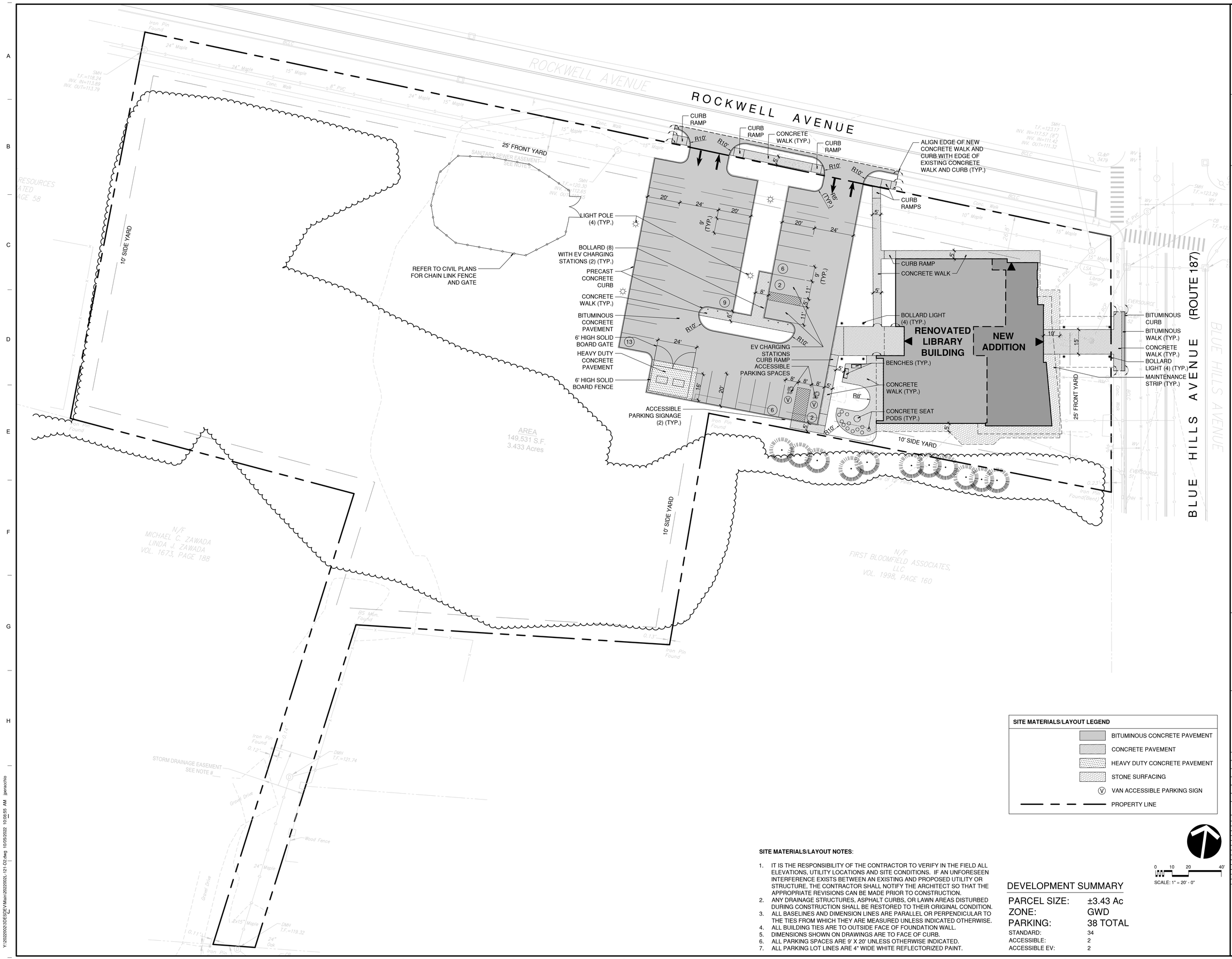

SITE MATERIALS/LAYOUT LEGEND

- BITUMINOUS CONCRETE PAVEMENT
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STONE SURFACING
- (V) VAN ACCESSIBLE PARKING SIGN
- PROPERTY LINE

SITE MATERIALS/LAYOUT NOTES:

1. 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.
2. ANY DRAINAGE STRUCTURES, ASPHALT CURBS, OR LAWN AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
3. ALL BASELINES AND DIMENSION LINES ARE PARALLEL OR PERPENDICULAR TO THE TIES FROM WHICH THEY ARE MEASURED UNLESS INDICATED OTHERWISE.
4. ALL BUILDING TIES ARE TO OUTSIDE FACE OF FOUNDATION WALL.
5. DIMENSIONS SHOWN ON DRAWINGS ARE TO FACE OF CURB.
6. ALL PARKING SPACES ARE 9' X 20' UNLESS OTHERWISE INDICATED.
7. ALL PARKING LOT LINES ARE 4" WIDE WHITE REFLECTORIZED PAINT.

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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BLOOMFIELD, CT 06002

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE MATERIALS / LAYOUT PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-121

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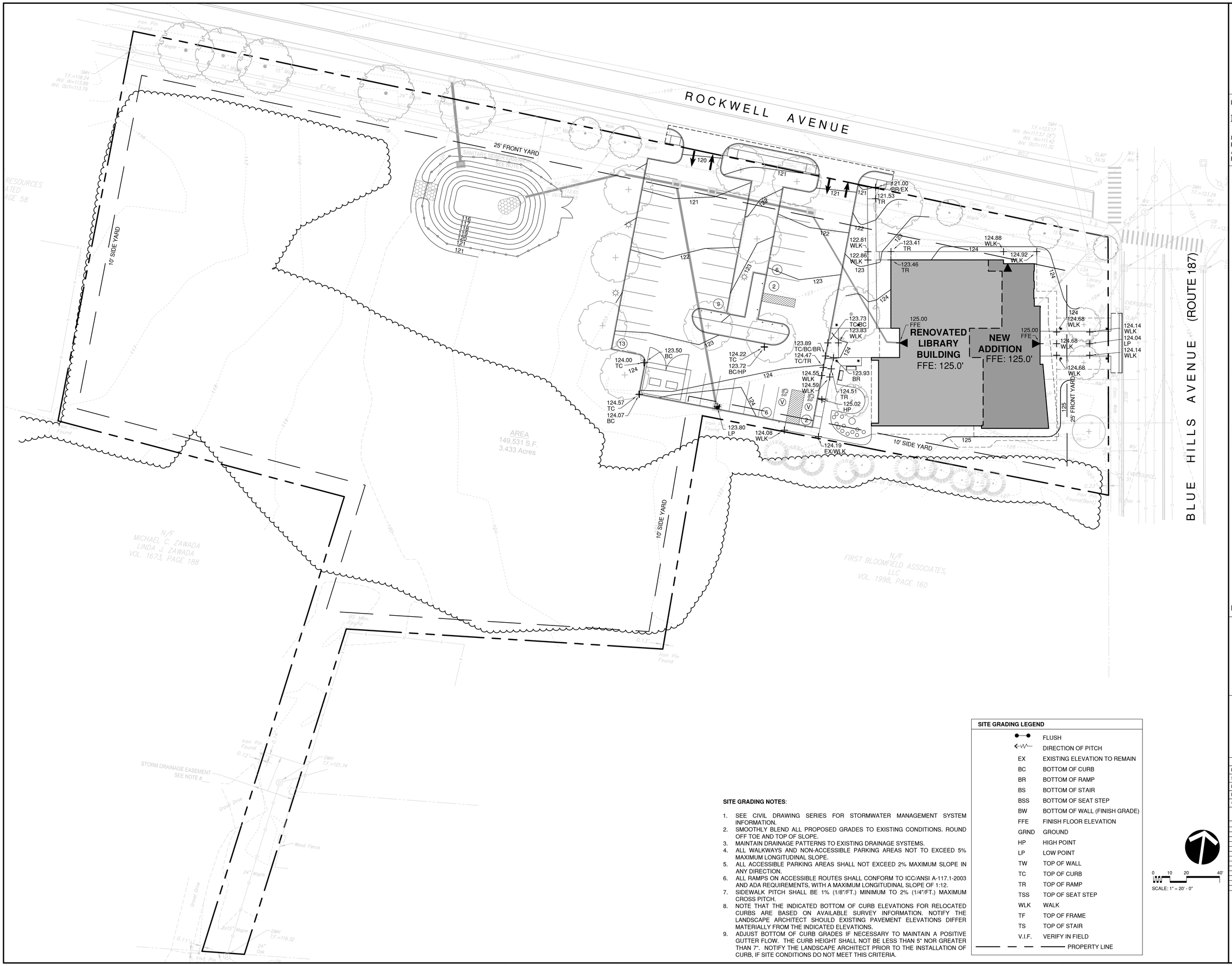

SITE GRADING NOTES:

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-117.1-2003 AND ADA REQUIREMENTS, WITH A MAXIMUM LONGITUDINAL SLOPE OF 1:12.
7. SIDEWALK PITCH SHALL BE 1% (1/8"/FT.) MINIMUM TO 2% (1/4"/FT.) MAXIMUM CROSS PITCH.
8. NOTE THAT THE INDICATED BOTTOM OF CURB ELEVATIONS FOR RELOCATED CURBS ARE BASED ON AVAILABLE SURVEY INFORMATION. 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
BS	BOTTOM OF STAIR
BSS	BOTTOM OF SEAT STEP
BW	BOTTOM OF WALL (FINISH GRADE)
FFE	FINISH FLOOR ELEVATION
GRND	GROUND
HP	HIGH POINT
LP	LOW POINT
TW	TOP OF WALL
TC	TOP OF CURB
TR	TOP OF RAMP
TSS	TOP OF SEAT STEP
WLK	WALK
TF	TOP OF FRAME
TS	TOP OF STAIR
V.I.F.	VERIFY IN FIELD
— — —	PROPERTY LINE

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

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE GRADING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-131

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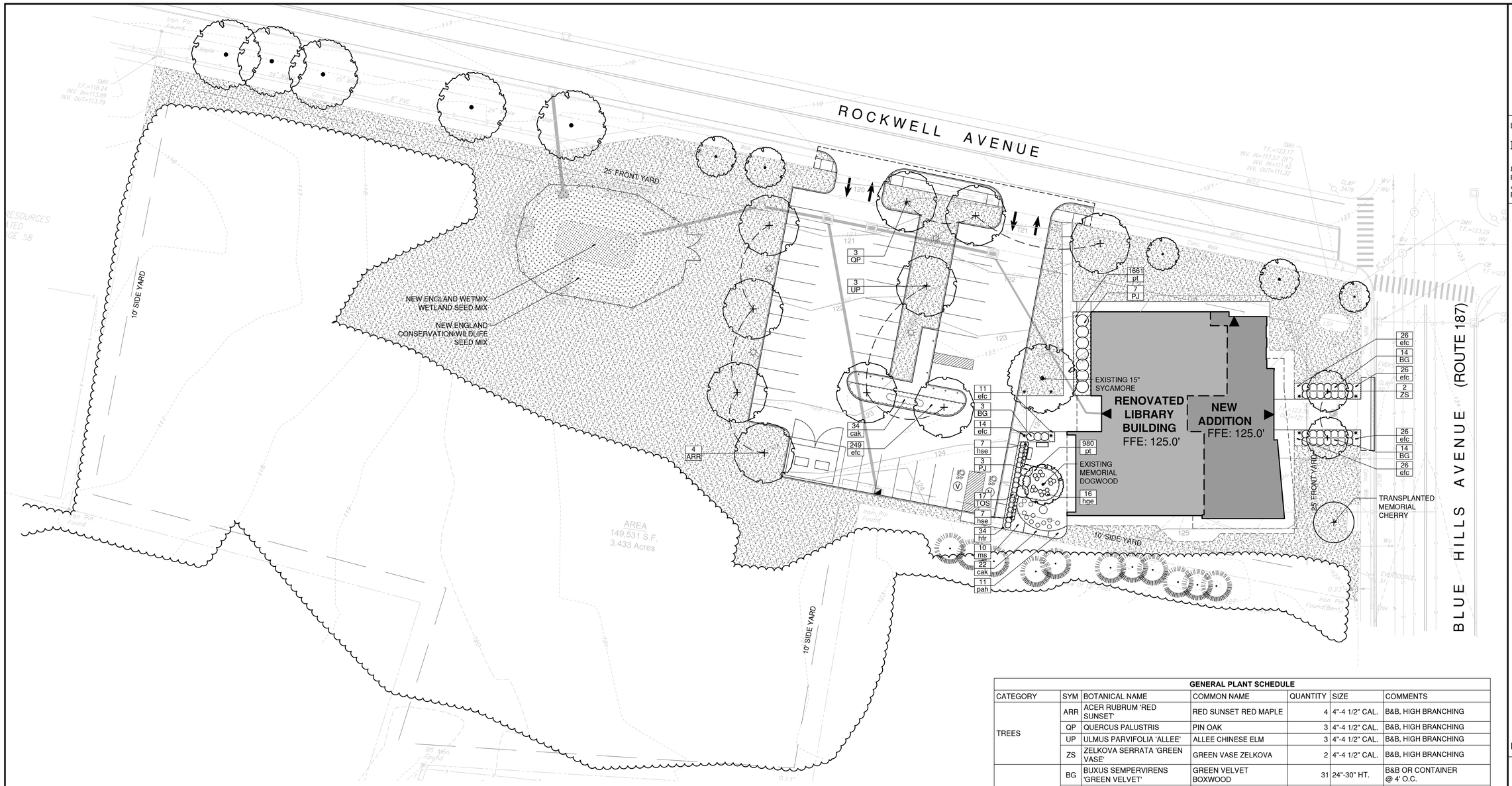

SITE PLANTING LEGEND

- EXISTING SHADE TREE
- SHADE TREE
- TRANSPLANTED TREE
- SHRUB MASSING/ PERENNIALS/ GROUNDCOVER
- LAWN SEED
- NEW ENGLAND WETLAND WETMIX SEED MIX
- NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX
- PROPERTY LINE

NEW ENGLAND WETMIX (WETLAND SEED MIX)	
BOTANICAL NAME	COMMON NAME
ASCLEPIAS INCARNATA	SWAMP MILKWEED
ASTER LATERIFLORUS (SYMPHYOTRICHUM LATERIFLORUM)	STARVED/CALICO ASTER
BIDENS FRONDOSA	BEGGAR TICKS
CAREX CRINITA	FRINGED SEDGE
CAREX LUPULINA	HOP SEDGE
CAREX LURIDA	LURID SEDGE
CAREX SCOPARIA	BLUNT BROOM SEDGE
CAREX VULPINOIDEA	FOX SEDGE
EUPATORIUM MACULATUM (EUTROCHIUM MACULATUM)	SPOTTED JOE PYE WEED
GLYCERIA GRANDIS	AMERICAN MANNAGRASS
IRIS VERSICOLOR	BLUE FLAG
JUNCUS EFFUSUS	SOFT RUSH
MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER
POA PALUSTRIS	FOWL BLUEGRASS
SCIRPUS ATROVIRENS	GREEN BULRUSH
VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED

NEW ENGLAND CONVERSATION/WILDLIFE MIX	
BOTANICAL NAME	COMMON NAME
ANDROPOGON GERERDII	BIG BLUESTEM
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED
ASTER PILOSUS (SYMPHYOTRICHUM PILOSUM)	HEATH (OR HAIRY) ASTER
BIDENS FRONDOSA	BEGGAR TICK
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA
DESMODIUM CANADENSE	SHOWY TICK TREFOIL
ELYMUS VIRGINICUS	VIRGINIA WILD RYE
EUPATORIUM PURPUREUM (EUTROCHIUM MACULATUM)	PURPLE JOE PYE WEED
FESTUCA RUBRA	RED FESCUE
PANICUM VIRGATUM	SWITCH GRASS
RUDBECKIA HIRTA	BLACK EYED SUSAN
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SOLIDAGO JUNCEA	EARLY GOLDENROD
SORGHASTRUM NUTANS	INDIAN GRASS

GENERAL 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
	QP	QUERCUS PALUSTRIS	PIN OAK	3	4"-4 1/2" CAL.	B&B, HIGH BRANCHING
	UP	ULMUS PARVIFOLIA 'ALLEE'	ALLEE CHINESE ELM	3	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	BG	BUXUS SEMPERVIRENS 'GREEN VELVET'	GREEN VELVET BOXWOOD	31	24"-30" HT.	B&B OR CONTAINER @ 4' O.C.
	cak	CALAMAGROSTIS 'KARL FOERSTER'	KARL FOERSTER REED GRASS	56	#1 CONT.	CONTAINER @ 18" O.C.
	efc	EUONYMUS FORTUNEI 'COLORATUS'	WINTERCREEPER	378	#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	14	#1 CONT.	CONTAINER @ 24" O.C.
	hge	HOSTA SIEBOLDIANA 'GREAT EXPECTATIONS'	GREAT EXPECTATIONS HOSTA	16	#1 CONT.	CONTAINER @ 24" O.C.
	ms	MISCANTHUS SINENSIS 'MORNING LIGHT'	CHINESE SILVER GRASS	10	#1 CONT.	CONTAINER @ 30" O.C.
	pah	PENNISETUM ALOPECUROIDES 'HAMLIN'	DWARF FOUNTAIN GRASS	11	#1 CONT.	CONTAINER @ 24" O.C.
	PJ	PIERIS JAPONICA 'MT. FIRE'	MT. FIRE PIERIS	10	30"-36" HT.	CONTAINER
	pt	PACHYSANDRA TERMINALIS	JAPANESE SPURGE	2641	2 YR. ROOTED CUTTING	CUTTINGS @ 6" O.C.
	TOS	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITEA	17	8'-9' HT.	CONTAINER

SITE PLANTING NOTES:

1. SEE DRAWING L-141 FOR PLANT SCHEDULE AND DRAWING L-503 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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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SITE PLANTING PLAN

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-141

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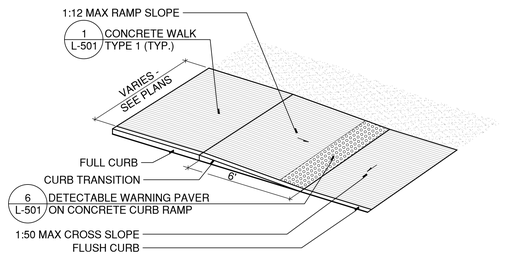

13 FULL WIDTH CURB RAMP

SCALE: 1"=1'

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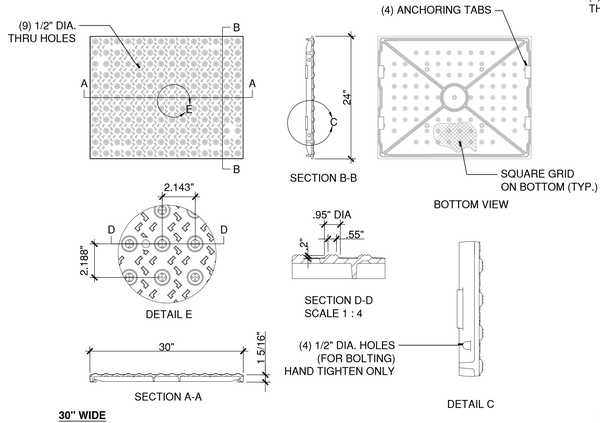
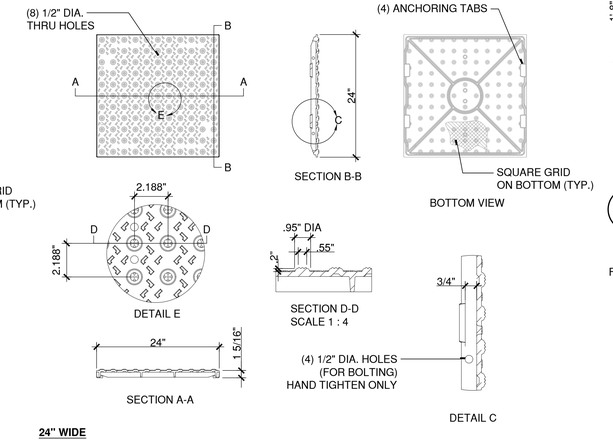


30" WIDE



24" WIDE

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

9 DETECTABLE WARNING PAVER

SCALE: N.T.S.

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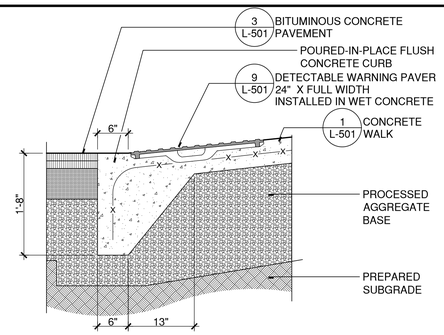

6 DETECTABLE WARNING PAVER AT CONCRETE CURB RAMP

SCALE: 1"=1'

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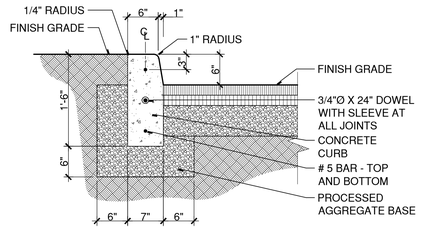

5 PRECAST CONCRETE CURB

SCALE: 1"=1'

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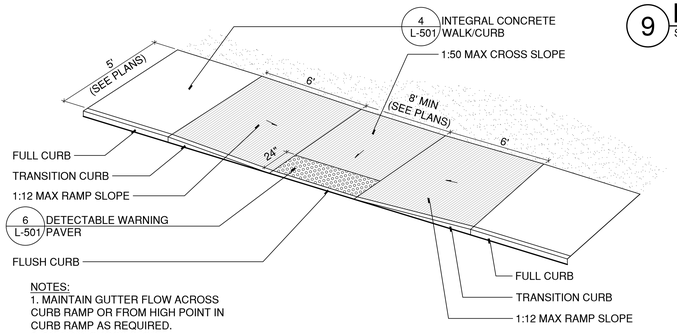

NOTES:
1. MAINTAIN GUTTER FLOW ACROSS CURB RAMP OR FROM HIGH POINT IN CURB RAMP AS REQUIRED.
2. 2% MAX. CROSS SLOPE
3. 5% MAX. COUNTER SLOPE

12 RAMPED SIDEWALK CURB RAMP

SCALE: N.T.S.

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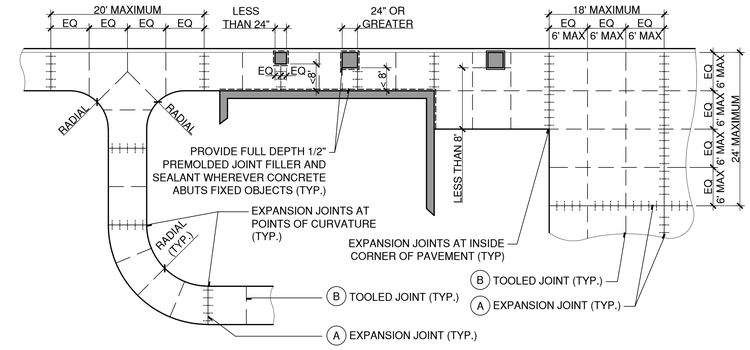

8 TYPICAL JOINT PLACEMENT IN CONCRETE

SCALE: 1/8"=1'

Y:\2022003\4CONDOC\DETAILS\321313-C.DWG

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.

11 ACCESSIBLE PARKING SIGNAGE

SCALE: N.T.S.

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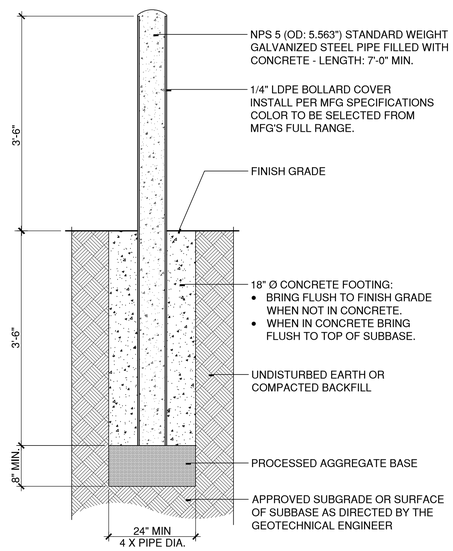

10 STEEL PIPE BOLLARD

SCALE: 1"=1'

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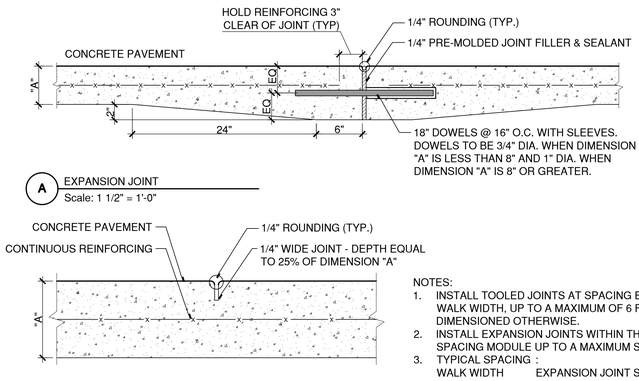

NOTES:
1. INSTALL TOOLED JOINTS AT SPACING EQUAL TO THE WALK WIDTH, UP TO A MAXIMUM OF 6 FEET, UNLESS DIMENSIONED OTHERWISE.
2. INSTALL EXPANSION JOINTS WITHIN THE TOOLED JOINT SPACING MODULE UP TO A MAXIMUM SPACING OF 20 FEET.
3. TYPICAL SPACING :

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 8 L-501

7 CONCRETE JOINT DETAILS

SCALE: 1"=1'

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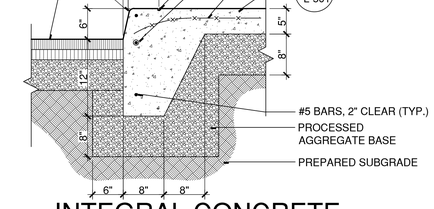

4 INTEGRAL CONCRETE WALK / CURB

SCALE: 1"=1'

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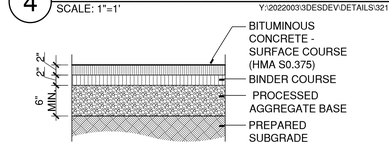

3 BITUMINOUS CONCRETE PAVEMENT

SCALE: 1"=1'

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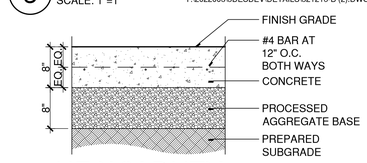

2 HEAVY DUTY CONCRETE PAVEMENT

SCALE: 1"=1'

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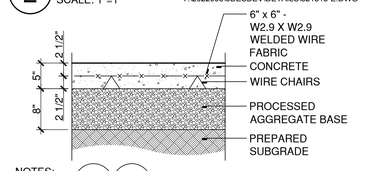

NOTES:
1. SEE 7 L-501 8 L-501 FOR JOINT DETAILS AND LOCATIONS.

1 CONCRETE WALK

SCALE: 1"=1'

Y:\2022003\3DESDEV\DETAILS\321313-A.DWG

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-501

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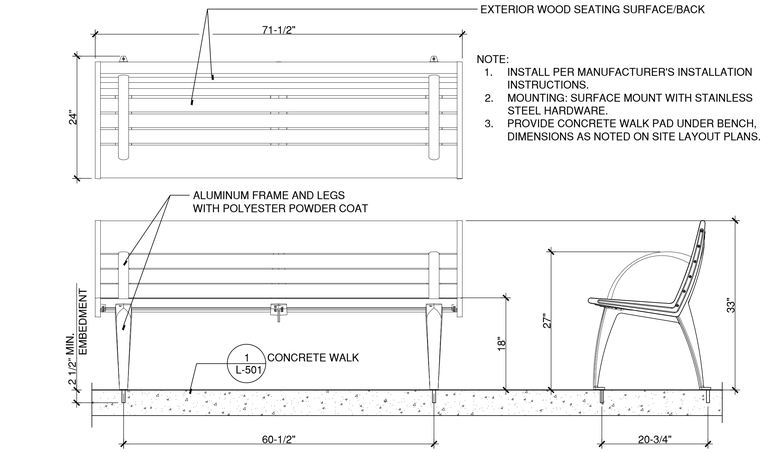
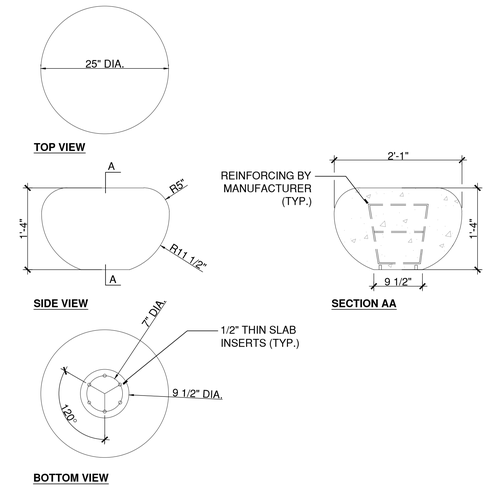


NOTE:
1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. MOUNTING: SURFACE MOUNT WITH STAINLESS STEEL HARDWARE.
3. PROVIDE CONCRETE WALK PAD UNDER BENCH, DIMENSIONS AS NOTED ON SITE LAYOUT PLANS.

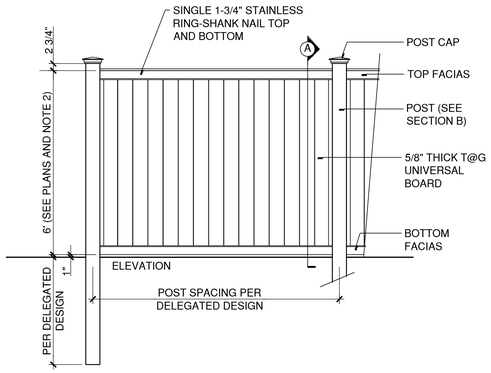
5 BENCH
SCALE: 1"=1'

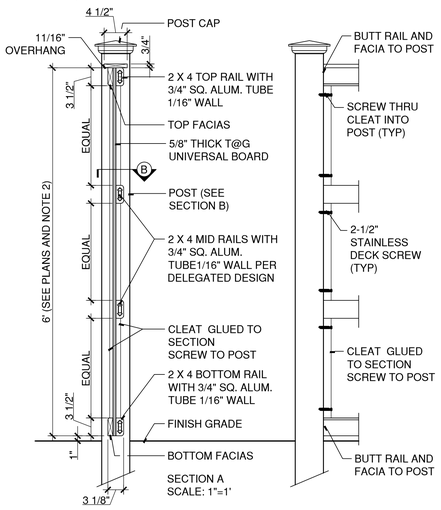
BENCH.DWG

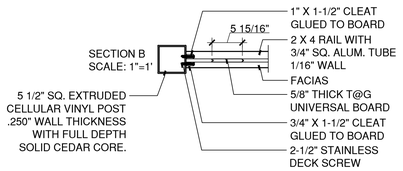


4 PRECAST CONCRETE SEAT POD
SCALE: 1"=1'

SEAT POD.DWG



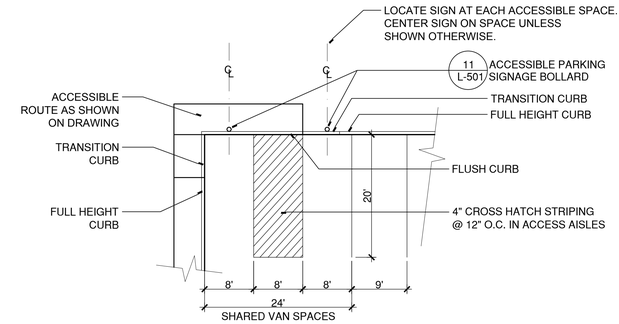




NOTES:
1. REFER TO SPECIFICATIONS FOR SOLID CELLULAR PVC FENCE AND GATE MATERIAL, FINISH AND COLOR REQUIREMENTS.
   1.1. ALL FASTENERS TO BE STAINLESS STEEL OR COMPOSITE TYPE.
   1.2. PICKETS/BOARDS - SMOOTH FINISH, SQUARE EDGE MATERIAL.
   1.3. FACIAS - SMOOTH FINISH, SQUARE EDGE MATERIAL.
   1.4. SECTION CAP - SMOOTH FINISH MOLDED TO THE DIMENSIONS SHOWN.
   1.5. RAILS - SMOOTH FINISH, MOLDED TO THE DIMENSIONS SHOWN.
   1.6. POSTS - SMOOTH FINISH.
   1.7. COLOR - CUSTOM COLOR TO BE SELECTED BY ARCHITECT FROM COATING MANUFACTURER'S FULL RANGE OF COLORS TO MATCH ARCHITECT'S SAMPLE PANEL.
2. FINAL HEIGHT OF DUMPSTER ENCLOSURE SHALL BE COORDINATED WITH THE HEIGHT OF OWNER PROVIDED COMPACTOR AND DUMPSTER TO PROVIDE FULL SCREENING.

2 SOLID BOARD FENCE
SCALE: N.T.S.

Y:\2022003\3DESDEV\DETAILS\AZEK FENCE.DWG



NOTES:
1. PITCH PAVEMENT NO MORE THAN A 2% SLOPE IN ANY DIRECTION.
2. COLOR OF STRIPING SHALL BE WHITE.

3 ACCESSIBLE PARKING SPACES
SCALE: 1"=10'

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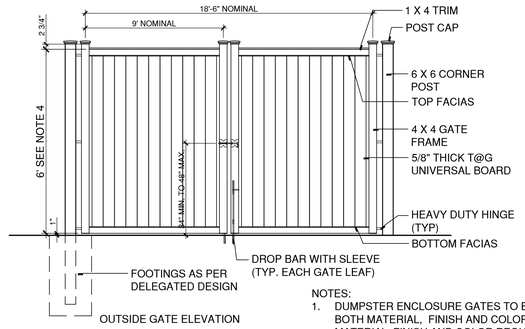

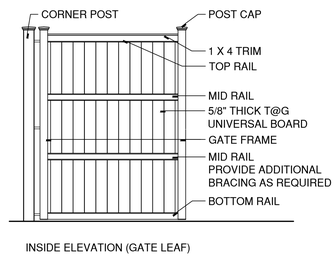

NOTES:
1. DUMPSTER ENCLOSURE GATES TO BE INTERNALLY-REINFORCED SOLID CELLULAR PVC LUMBER TO MATCH ADJACENT SOLID BOARD FENCE IN BOTH MATERIAL, FINISH AND COLOR. REFER TO DETAIL 2/L5.02 FOR FENCE DESIGN AND MATERIALS. REFER TO SPECIFICATIONS FOR MATERIAL, FINISH AND COLOR REQUIREMENTS.
2. GATE TO BE DELEGATED DESIGN. SUBMIT SHOP DRAWINGS FOR APPROVAL.
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.

1 ENCLOSURE GATE
SCALE: N.T.S.

Y:\2022003\3DESDEV\DETAILS\DUMPSTER ENCLOSURE.DWG

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

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-502

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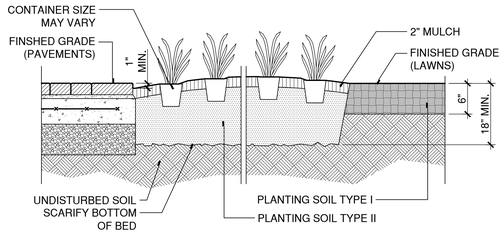
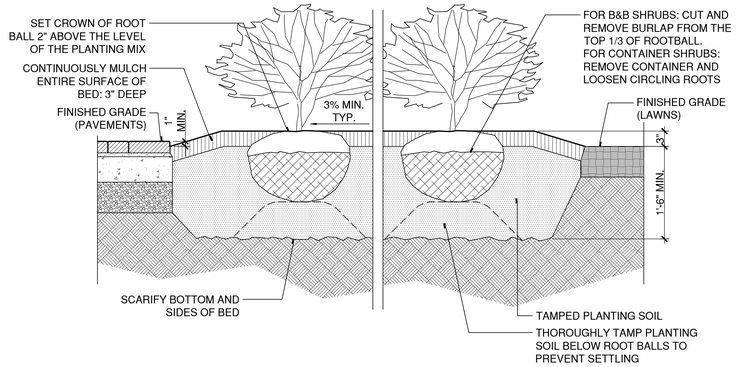
NOTES:
1. SET CROWN OF ROOT BALL LEVEL WITH FINISH GRADE.
2. MAINTAIN MINIMUM OF 4" PLANTING SOIL BELOW EACH INDIVIDUAL PLANT.
3. MULCH ENTIRE AREA OF GROUNDCOVER, PERENNIALS OR ANNUALS.
4. MULCH CAREFULLY AROUND EACH PLANT. DO NOT COVER CROWNS OF PLANTS WITH MULCH.



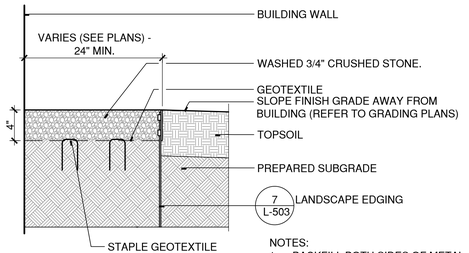
3 GROUNDCOVERS / PERENNIALS CONTINUOUS PLANTING BED

SCALE: 1"=1' Y:\2022003\3DESDEV\DETAILS\329300-C.DWG



2 CONTINUOUS PLANTING BED FOR SHRUBS

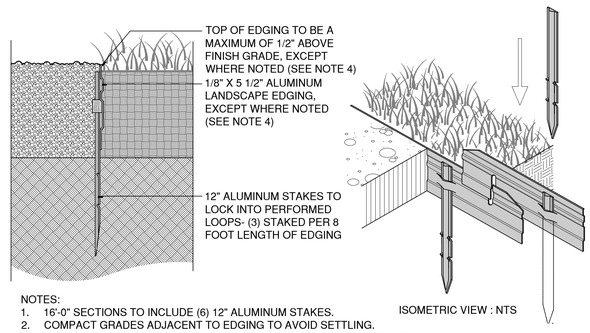
SCALE: 1"=1' Y:\2022003\3DESDEV\DETAILS\329300-B.DWG



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

8 MAINTENANCE STRIP

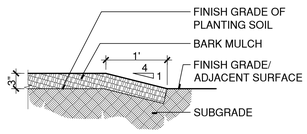
SCALE: N.T.S. Y:\2022003\3DESDEV\DETAILS\321500-C.DWG



NOTES:
1. 16'-0" SECTIONS TO INCLUDE (6) 12" ALUMINUM STAKES.
2. COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING.
3. CORNERS - CUT BASE OF MATERIAL TO FORM A CONTINUOUS CORNER.

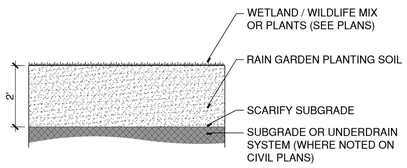
7 LANDSCAPE EDGING

SCALE: 3"=1' Y:\2022003\3DESDEV\DETAILS\055000-A.DWG



6 BARK MULCH SURFACING

SCALE: 1"=1' Y:\2022003\3DESDEV\DETAILS\329400-A.DWG



5 WATER QUALITY BASIN

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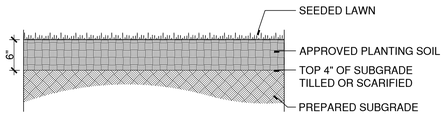
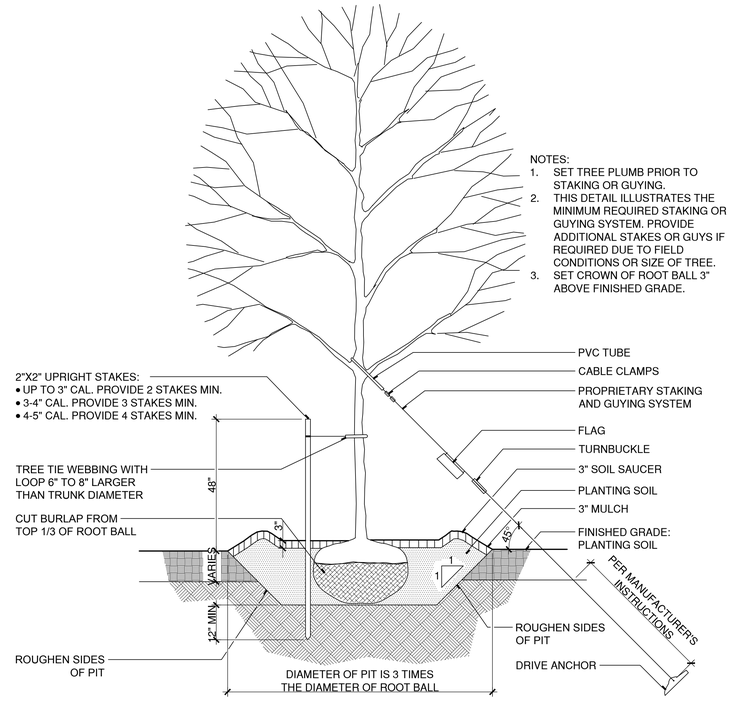


4 SEEDED LAWN

SCALE: 1"=1' Y:\2022003\3DESDEV\DETAILS\329200-C.DWG



1 TREE PLANTING WITH TRUNK STABILIZATION

SCALE: 1/2"=1' Y:\2022003\3DESDEV\DETAILS\329300-A.DWG

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
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ISSUE DATES

NO.	DATE	PURPOSE

L-503

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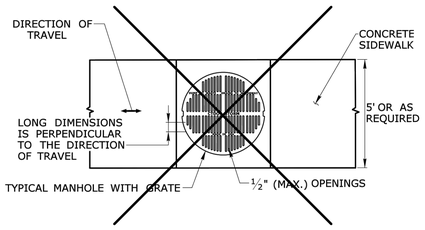
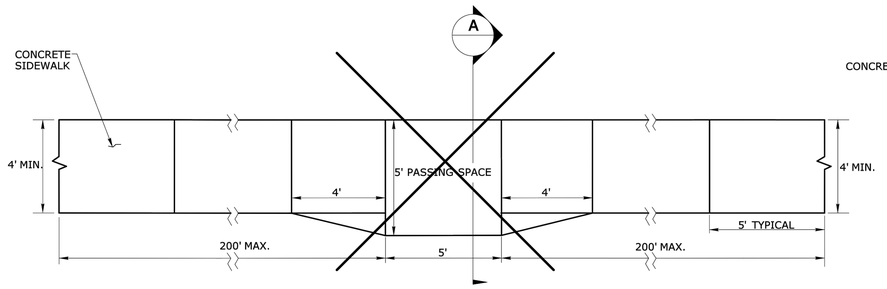


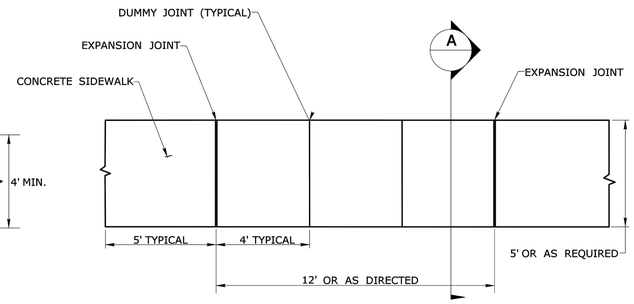
PEDESTRIAN ACCESS ROUTE OVER A MANHOLE WITH GRATE

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

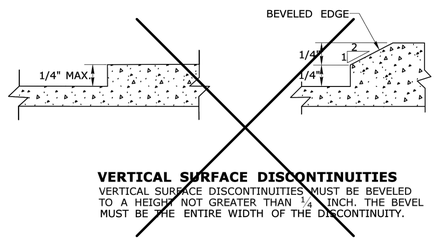
PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200' MAXIMUM FOR SIDEWALKS LESS THAN 5' IN WIDTH



5' WIDE SIDEWALK PLAN

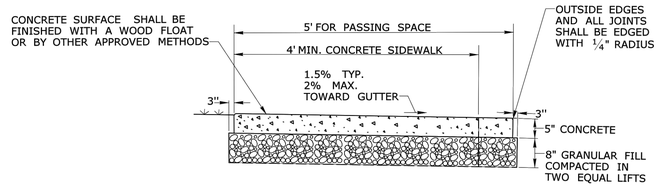
GENERAL NOTES:

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 ½ INCH. THE BEVEL MUST BE THE ENTIRE WIDTH OF THE DISCONTINUITY.



5' PASSING SPACE FOR 4' WIDE SIDEWALK

SECTION A

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.

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: 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

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

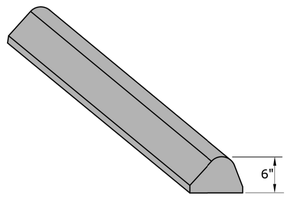
CONNDOT DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

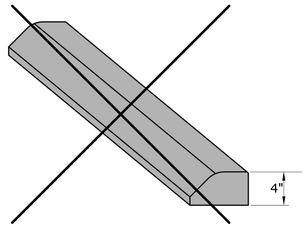
ISSUE DATES

NO.	DATE	PURPOSE

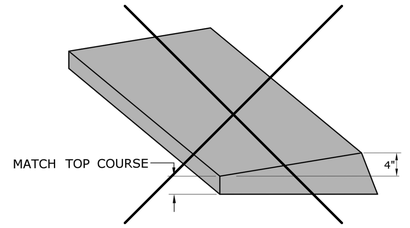
L-504



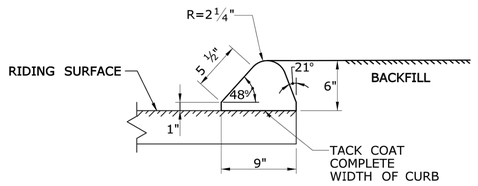
BITUMINOUS CONCRETE LIP CURBING (6" HIGH)



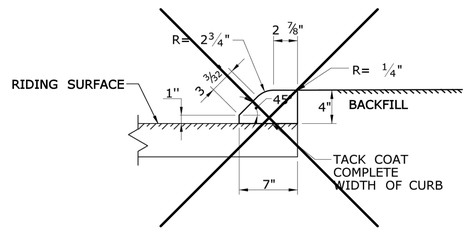
BITUMINOUS CONCRETE PARK CURBING (4" HIGH)



BITUMINOUS CONCRETE BERM CURBING (4" HIGH)



SECTION



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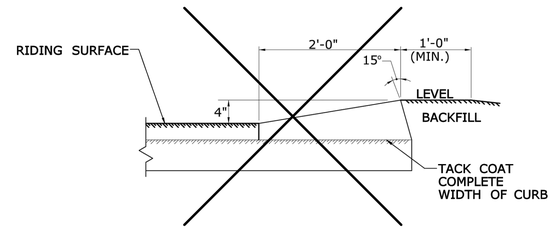

SECTION

	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

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
CONNDOT DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-505

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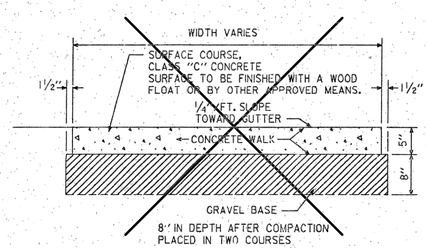
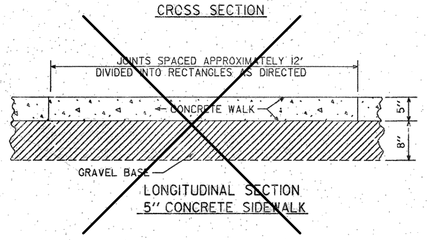
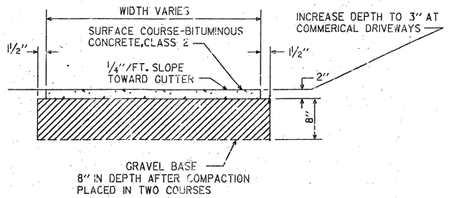
I	CONN.						



CROSS SECTION



LONGITUDINAL SECTION
5" CONCRETE SIDEWALK



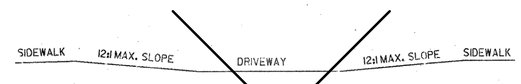
CROSS SECTION
BITUMINOUS CONCRETE
SIDEWALK AND DRIVEWAYS

NOTES:

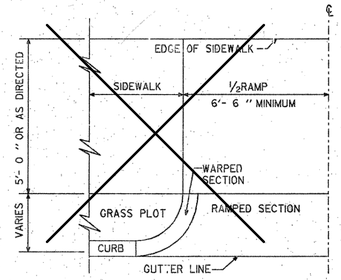
DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' WIDE,EXCLUDING CURBING.

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" THERE SHALL BE NO LIP AT THE GUTTER LINE.

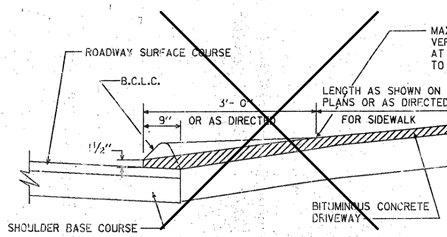


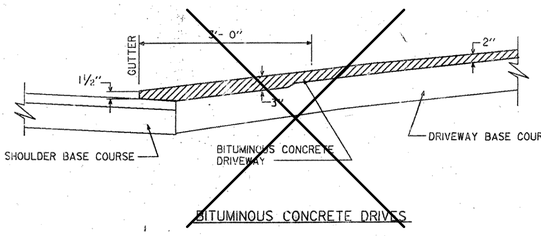
LONGITUDINAL SECTION
OF
SIDEWALKS AT DRIVEWAYS



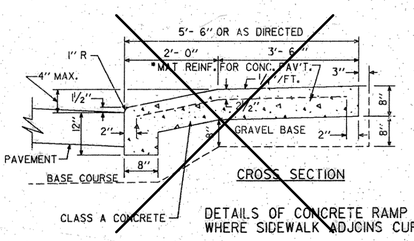
SYMETHICAL

HALF PLAN





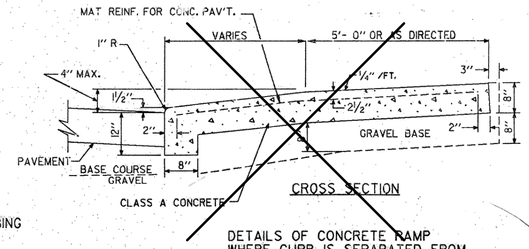
BITUMINOUS CONCRETE DRIVES



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\92A-506.

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:
Fdhr A. Approval: Date: 9-18-91

SCALE: NOT TO SCALE

STANDARD NUMBER
92I-A

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.

tskp.com

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

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

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

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
CONNDOT DETAILS

STATE PROJ NO.	
PROJECT NO.	220103
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-506

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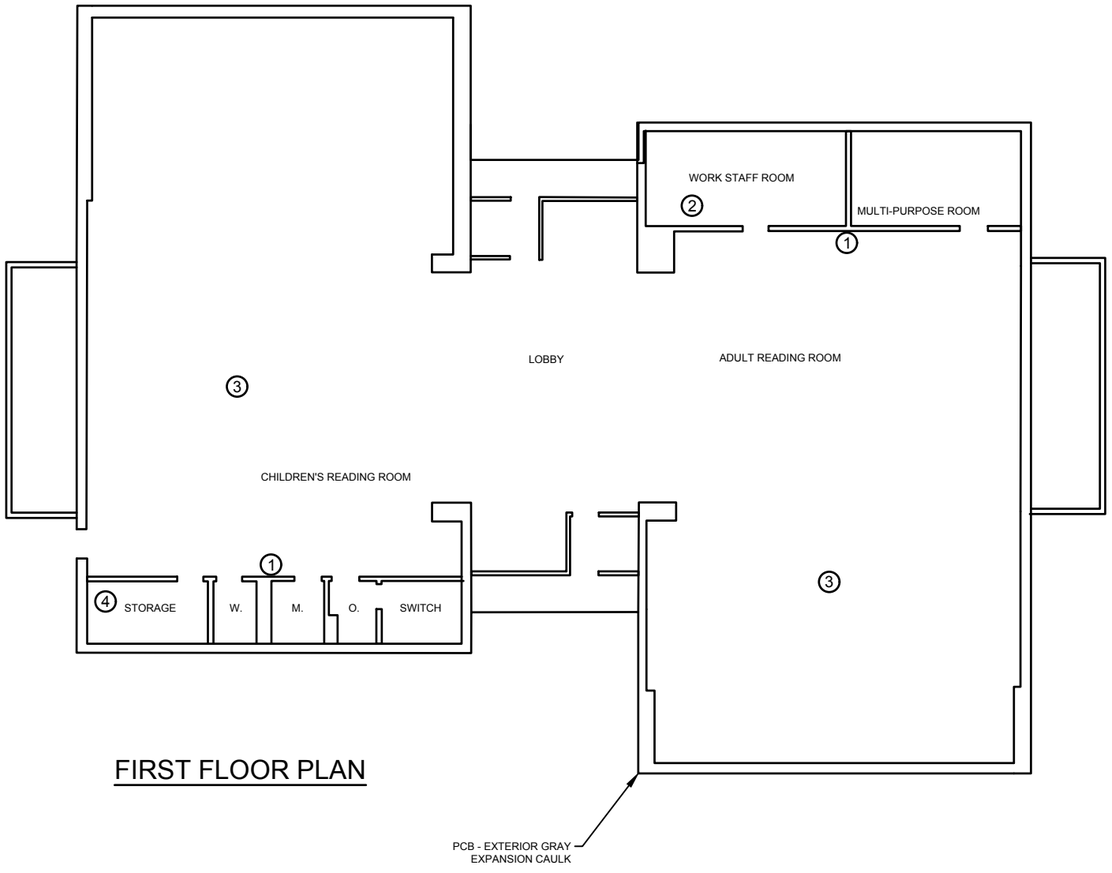
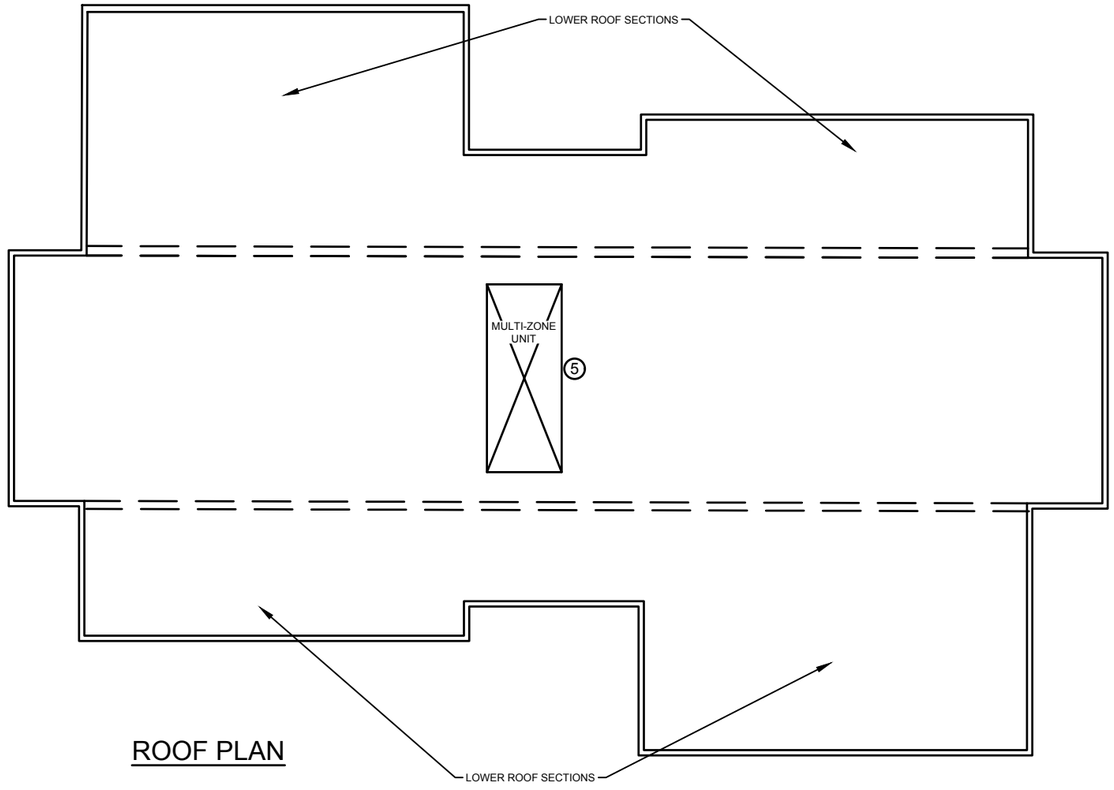


FIRST FLOOR PLAN



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'
0 1/2" 1"

SLR
2 COMMERCE DRIVE, SUITE 110
BEDFORD, NH 03110
603.488.1554
SLRCONSULTING.COM

REVISIONS

SAMPLING LOCATION PLAN

McMAHON WINTONBURY LIBRARY
HAZARDOUS MATERIALS SURVEY

1015 BLUE HILLS AVENUE
BLOOMFIELD, CONNECTICUT

--	JRC	RR
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'±

DATE: APRIL 15, 2022

PROJECT NO.: 144.12571.00015

SHEET NO.: 2

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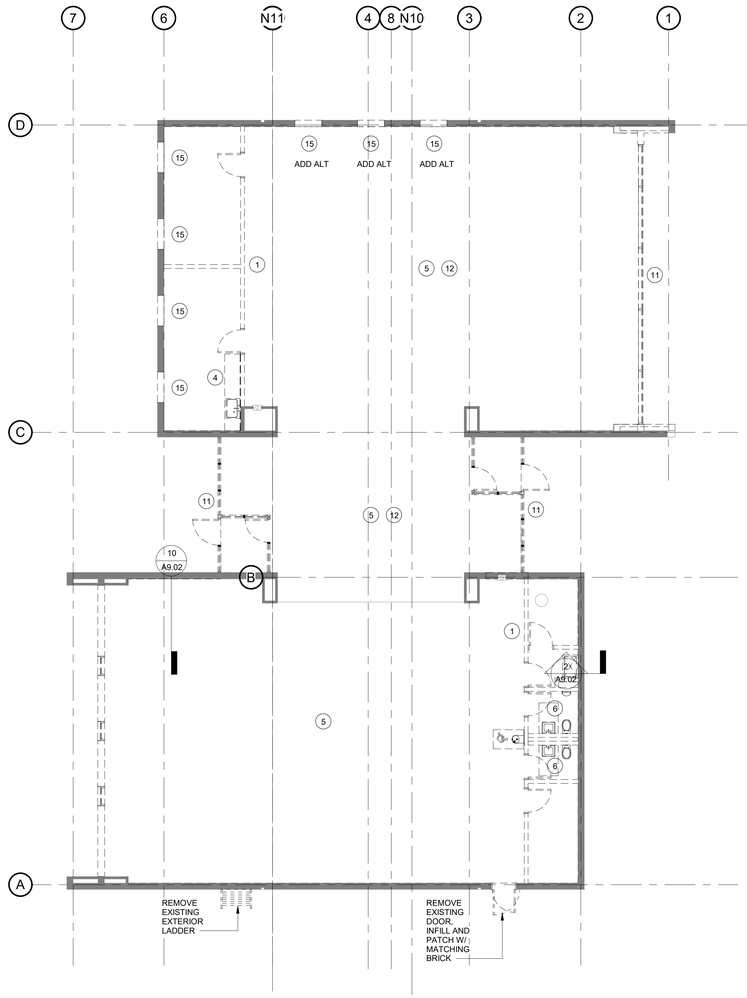
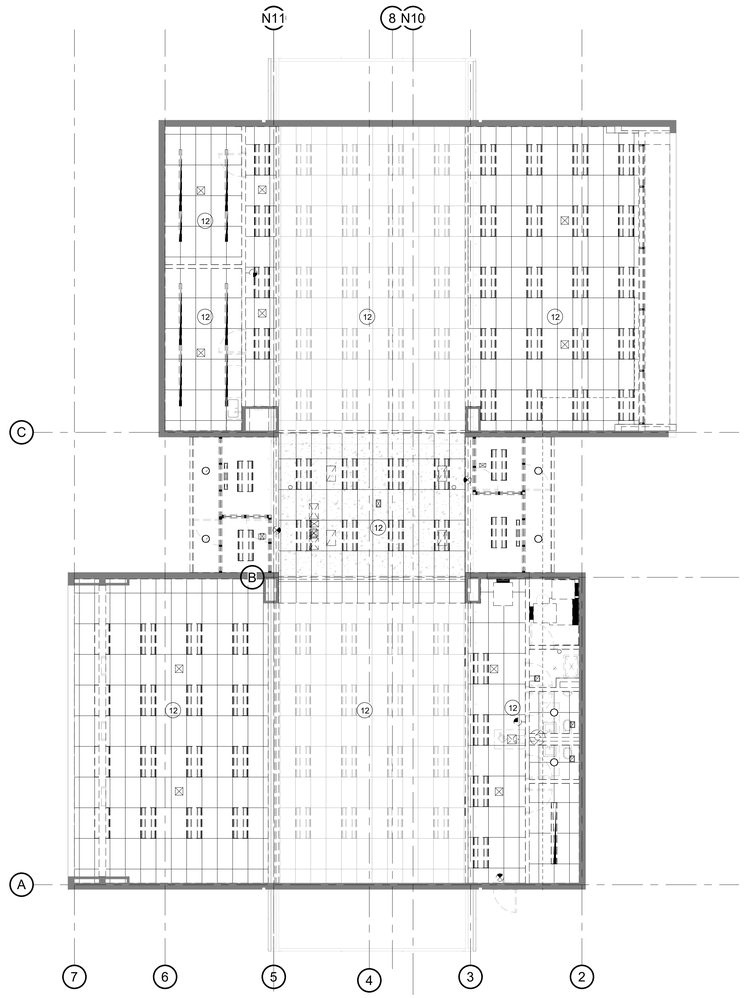
Drawing: C:\USERS\JCARRIER\APPDATA\LOCAL\TEMP\AXPUBLISH_20336\PROSSER LIBRARY.DWG Layout: Tab2
Plotted by: JCARRIER On this date: Mon, 2022 April 18 - 3:08pm



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 APPEARANCE 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. ADD ALT: CREATE OPENINGS WITHIN EXISTING MASONRY WALLS FOR WINDOWS

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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One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970

ARCHITECTURE | PLANNING | INTERIORS

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McMAHON WINTONBURY LIBRARY

1015 BLUE HILLS AVE.
BLOOMFIELD. CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

FIRST FLOOR PLAN AND REFLECTED CEILING PLAN - DEMO

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

D1.01

10/7/2022 6:45:25 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt

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

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

A
A601
INDIVIDUAL ELEVATION NUMBER
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

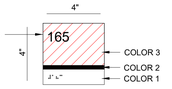
Name
Elevation
ELEVATION

0
0
COLUMN GRID CENTERLINE

1ti
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.

INTERNATIONAL SYMBOL

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

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.

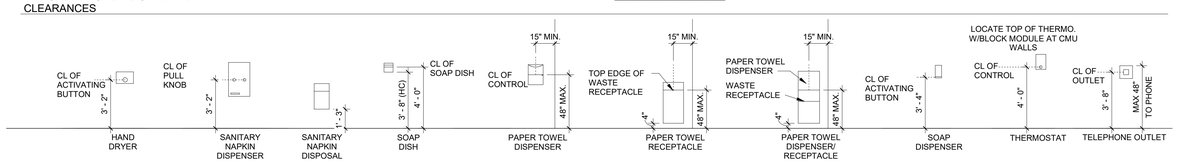
8. COORDINATE ROOM NUMBER WITH OWNER AS PART OF SIGNAGE SUBMITTAL PROCESS.

MATERIAL LEGEND

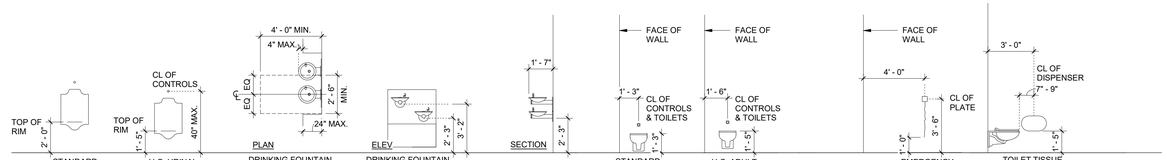
UNDISTURBED SOIL
COMPACTED GRAVEL
CONCRETE
CRUSHED STONE
BRICK
STONE
CONCRETE MASONRY UNIT
THIN SET TILE
FINISH WOOD
ROUGH WOOD CONTINUOUS
ROUGH WOOD NON-CONTINUOUS
NEW BRICK ELEVATION
NEW BRICK ELEVATION
RIGID INSULATION
GLASS FIBER INSULATON
GLASS - PLAN
METAL FERROUS
METAL NONFERROUS
GROUT / MORTAR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

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

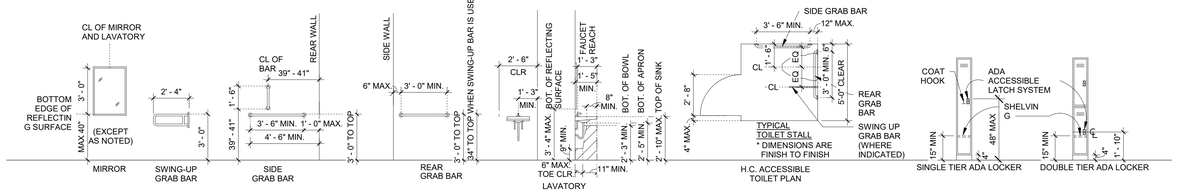
TYPICAL FIXTURE HEIGHTS AND CLEARANCES

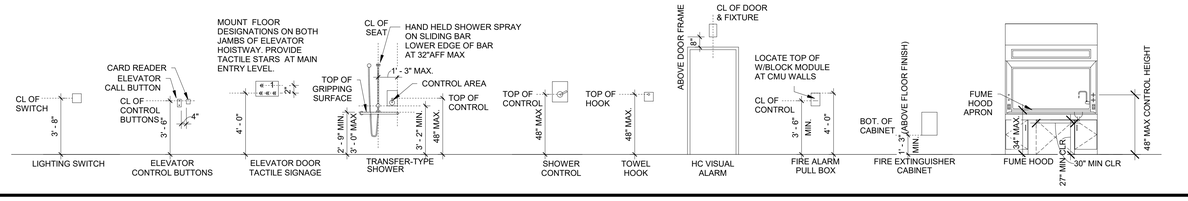


NOTE:ALL MOUNTING HEIGHTS SHOWN ON INTERIOR ELEVATIONS SHOULD SUPERSEDE HEIGHTS SHOWN ON THESE DRAWINGS AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.



○ COORDINATE HEIGHT OF FLUSH VALVE WITH GRAB BARS

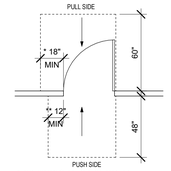




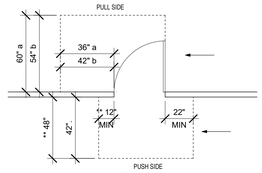
ABBREVIATIONS

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

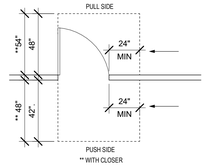
MANEUVERING CLEARANCES FOR ALL ACCESSIBLE DOORS



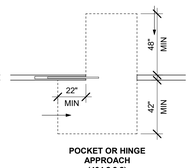
FRONT APPROACH (404.2.3.1)



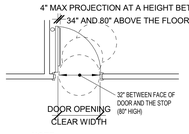
HINGE SIDE APPROACH (404.2.3.1)



LATCH SIDE APPROACH (404.2.3.1)

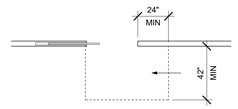


POCKET OR HINGE APPROACH (404.2.3.2)



NOTE :
ALL ACCESSIBLE DOOR OPENINGS TO BE ABLE TO PASS A 32"Ø x80"H CYLINDER.

DOOR OPENING CLEARANCE CT (1008.1.1)



LATCH APPROACH (404.2.3.2)

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.

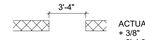
3. DO NOT SCALE DRAWINGS, USE WRITTEN DIMENSIONS ONLY.

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.

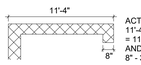
A. ALL MASONRY DIMENSIONS ARE SHOWN AS MODULAR DIMENSIONS UNLESS OTHERWISE NOTED.
B. MASONRY DIMENSIONS:
UNLESS OTHERWISE INDICATED ALL MASONRY PLAN DIMENSIONS ARE NOMINAL, WITH 'NOMINAL' DEFINED TO MEAN ACTUAL DIMENSION SHOWN OR DIMENSION SHOWN +- 3/8".

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



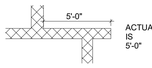
ACTUAL DIMENSION IS 3'-4" + 3/8" = 3'-4 3/8"

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



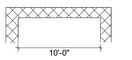
ACTUAL DIMENSIONS ARE
11'-4" - 3/8"
= 11'-3 5/8"
AND
8" - 3/8" = 7 5/8"

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;

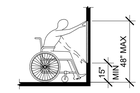
A. ALL RATED DOORS SHALL HAVE CLOSERS AND POSITIVE LATCHING LOCKSETS OR LATCHSETS.
B. ALL DOORS EXITING 100 OR MORE PEOPLE SHALL HAVE PANIC EXIT DEVICES.
C. ALL DOORS LEADING TO HAZARDOUS SPACES SHALL HAVE TACTILE WARNING. HAZARDOUS AREAS INCLUDE: CUSTODIAL SPACES, BOILER ROOM, MECHANICAL ROOMS AND ELECTRICAL CLOSETS.
D. ACCESSIBLE DOOR HARDWARE FOR PEOPLE WITH DISABILITIES SHALL BE PROVIDED TO COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS.

16. ACCESSIBILITY NOTES:

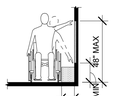
A. ALL PROGRAMS ARE ACCESSIBLE TO PERSONS WITH DISABILITIES.
B. ALL ROOMS USED BY PERSONS WITH DISABILITIES HAVE ACCESSIBLE WORK STATIONS.
C. ALL ACCESSIBLE ELEMENTS ARE MARKED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND THE ACCESSIBLE ROUTE HAS 36 INCH MINIMUM CLEARANCE THROUGHOUT (32 INCH CLEARANCE FOR DOORWAYS).
D. ALL ITEMS SHALL COMPLY WITH SECTION 604, REHABILITATION ACT 1973.
E. ALL LABS & SHOPS USED BY PERSON W/ DISABILITIES HAVE ACCESSIBLE EMERGENCY EYEWASH & BODY WASH STATION

REACH RANGES AND CLEAR FLOOR SPACE

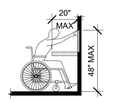
ALL REQUIREMENTS ARE BASED ON ICC/ANSI A117.1 /2009 W/CT STATE AMENDMENTS



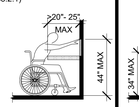
UNOBSTRUCTED FORWARD REACH (308.2.1)

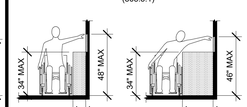


UNOBSTRUCTED SIDE REACH (308.3.1)



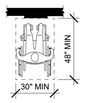
OBSTRUCTED HIGH FORWARD REACH (308.2.2)



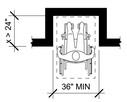


OBSTRUCTED HIGH SIDE REACH (308.3.2)

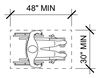
REACH RANGES



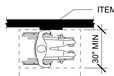
(a) FORWARD



(a) FORWARD APPROACH

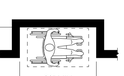


SIZE OF CLEAR FLOOR SPACE (305.3)



(b) PARALLEL

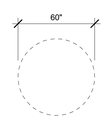
POSITION OF CLEAR FLOOR SPACE (305.5)



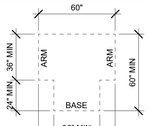
(b) PARALLEL APPROACH

MANEUVERING CLEARANCE IN ALCOVE (305.7)

CLEAR FLOOR SPACE



(a) Circular



(b) T-Shaped

SIZE OF WHEELCHAIR TURNING SPACE (304.3)

WHEELCHAIR TURNING SPACE

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

GENERAL INFORMATION

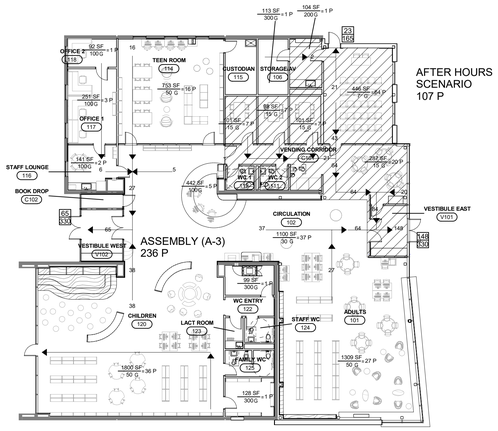
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A0.01

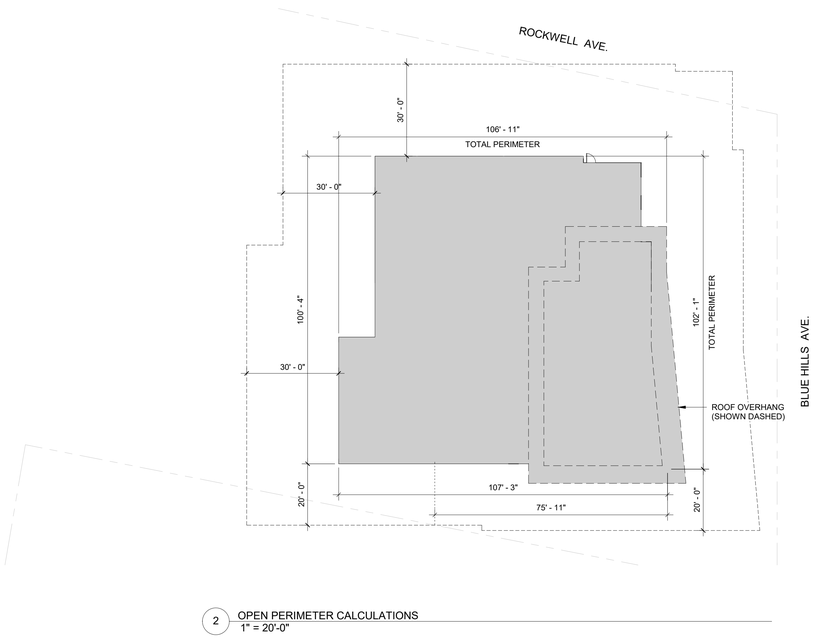
10/7/2022 6:44:28 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library/Arch-BM360-2021.rvt



AFTER HOURS
SCENARIO
107 P

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: 8,929 SF
   RENOVATION: 5,636 SF
   ADDITION: 3,293 SF
   TOTAL: 9,949 SF (8,929 SF + 1,020 ROOF OVERHANGS)

5. **AREA MODIFICATIONS TO TABLE 503**

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

   TOTAL PERIMETER (P) = 416 LF
   TOTAL OPEN PERIMETER (F) = 385 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*[(385/416) - 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 222
   TOTAL EXIT CAPACITY FOR EACH FLOOR:
   FIRST FLOOR 825
   DESIGN TOTAL FOR BUILDING: 222
   TOTAL EXIT CAPACITY FOR BUILDING: 825

10. **MODIFICATIONS**
    NO

11. **ACCESSIBLE BUILDING**
    DESIGNATED

12. **MINIMUM PLUMBING FIXTURE COUNT**

	ASSEMBLY(A3)	TOTAL REQUIRED	TOTAL PROVIDED
WC FEMALE :	118/65 = 2	= 2	= 3
WC MALE :	118/125 = 1	= 1	= 2
LAVS :	236/200 = 2	= 2	= 4
DRINKING F. :	236/500 = 1	= 1	= 2
SERVICE SINK :	1	= 1	= 1

    DESIGN TOTAL:
    A3 : TOTAL OCCUPANCY = 236

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 :	107/200 = 1	= 1	= 2
DRINKING F. :	107/500 = 1	= 1	= 2
SERVICE SINK :	1	= 1	= 0

    DESIGN TOTAL:
    A3 : TOTAL OCCUPANCY = 107

13. **SPRINKLER PROTECTION**
    NON SPRINKLERED

DRAWING LEGEND

- XXX — ROOM NUMBER
- 875 / 20 =43P — ROOM OCCUPANCY LOAD: AREA IN SQUARE FEET / OCCUPANCY LOAD FACTOR = ROOM OCCUPANCY LOAD
- 191 — MAX.. ALLOWABLE EGRESS OCCUPANCY OF STAIR
- 440 — MAX.. ALLOWABLE OCCUPANCY OF CORRIDOR
- X / 165 — EXIT CAPACITY: ACTUAL EGRESS OCCUPANCY OF DOOR OR STAIR / 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 1004.1.2
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

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
CODE PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

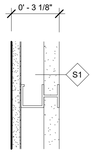
A0.02

10/7/2022 6:44:34 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BM360-2021.rvt

2 HOUR RATING SHAFT WALL

STC NA

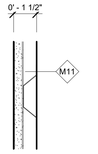
2 LAYER 5/8" GYP BD
2 1/2" CH STUDS @ 24" OC
1" GYPSIUM LINER PANEL



1 HOUR RATING SHAFT WALL

STC NA

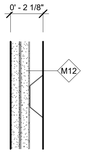
1 LAYER 5/8" GYP BD
2 1/2" CH STUDS @ 24" OC
1" GYPSIUM LINER PANEL



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

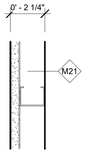
1 LAYER 5/8" GYP BD
7/8" MET FURRING
@ 16" OC



1 HOUR FINISH RATING
UL DES U301

STC NA

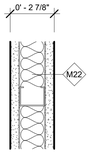
2 LAYERS 5/8" GYP BD
7/8" MET FURRING
@ 16" OC



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

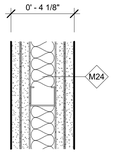
1 LAYER 5/8" GYP BD
1-5/8" MET STUD
@ 16" OC



1 HOUR RATING
OSU T-3296

STC 39

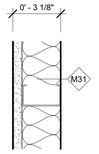
2 LAYER 5/8" GYP BD
1-5/8" MET STUD
@ 16" OC
1-1/2" MINERAL FIBER
INSULATION



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

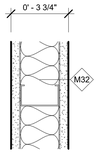
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 1-5/8"
MET STUD @ 16" OC
1-1/2" MINERAL FIBER
INSULATION



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

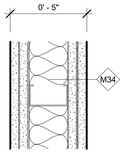
1 LAYER 5/8" GYP BD
2-1/2" MET STUD
@ 16" OC



1 HOUR RATING
UL DES U419

STC 45

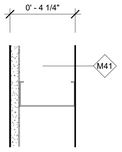
2 LAYERS 5/8" GYP BD
2-1/2" MET STUD
@ 16" OC
2-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
UL DES U419

STC 50

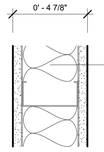
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 2-1/2"
MET STUD @ 16" OC
2-1/2" SOUND
ATTENUATION BATTS



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

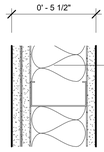
1 LAYER 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC



1 HOUR RATING
UL DES U419

STC 45

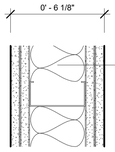
2 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 50

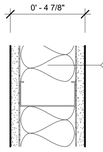
3 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
UL DES U419

STC 55

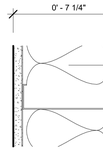
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 3-5/8"
MET STUD @ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 45

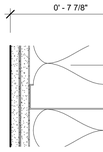
2 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 49 (EST)

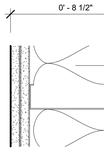
2 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 54 (EST)

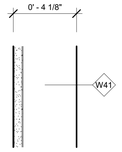
3 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 54 (EST)

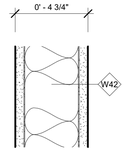
4 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

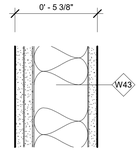
1 LAYER 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC



1 HOUR RATING
UL DES U305

STC 37 (EST)

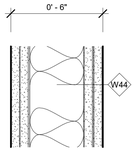
2 LAYERS 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U305

STC 42 (EST)

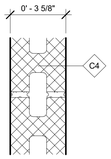
3 LAYERS 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
SWRI 01-5920-614

STC 44

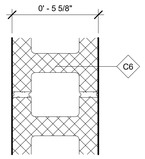
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 2 x 4
WD STUD @ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 TO 2 HR RATING
IBC TABLE 721.3.2

STC 44

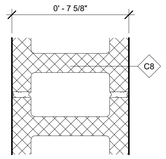
4" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 46

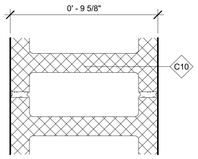
6" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 48

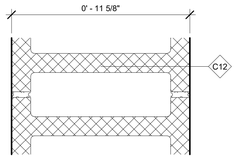
8" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 50

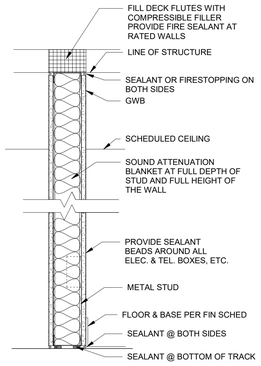
10" CONC MASONRY



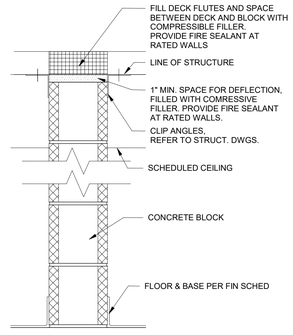
1 TO 4 HR RATING
IBC TABLE 721.3.2

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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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

WALL TYPES

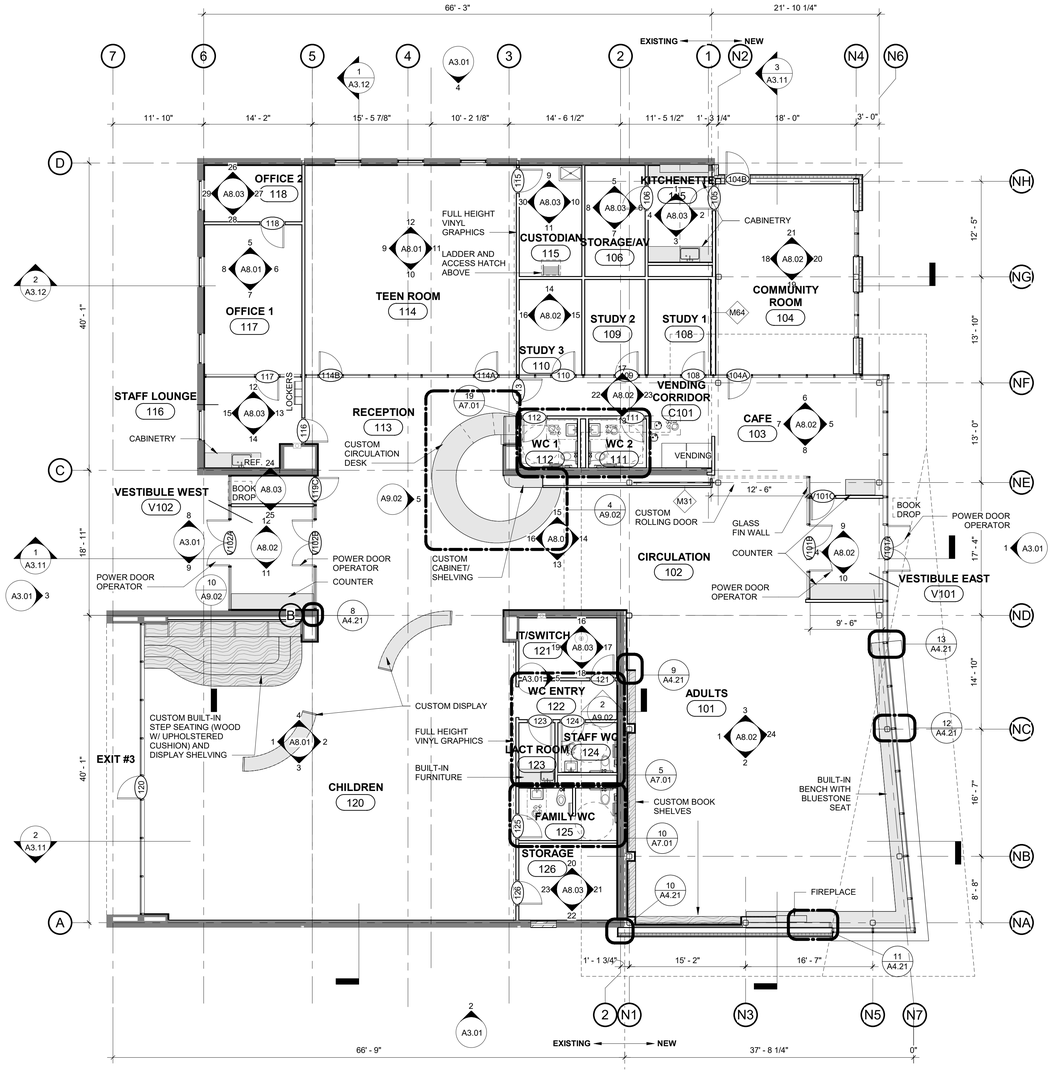
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

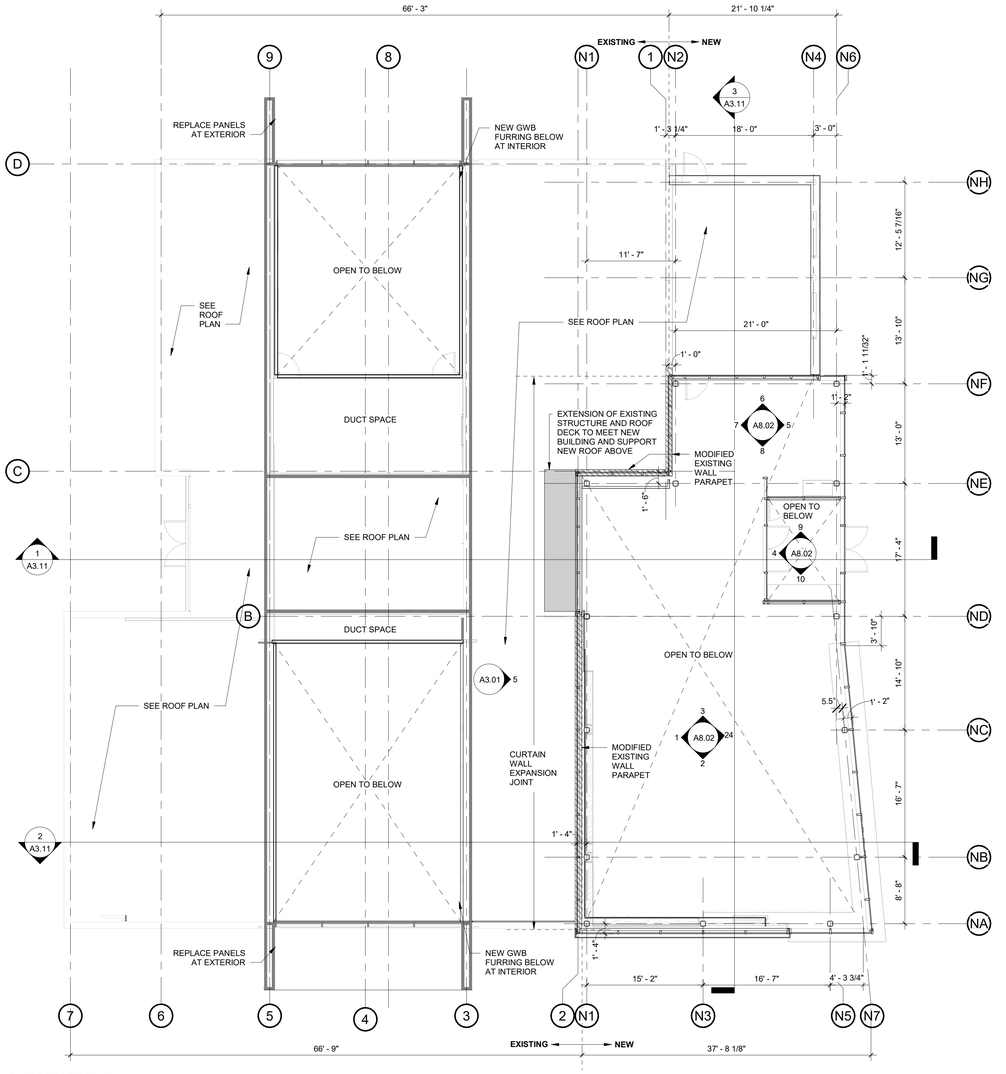
NO.	DATE	PURPOSE

A0.03

10/7/2022 6:44:36 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



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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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

FLOOR AND ROOF PLAN

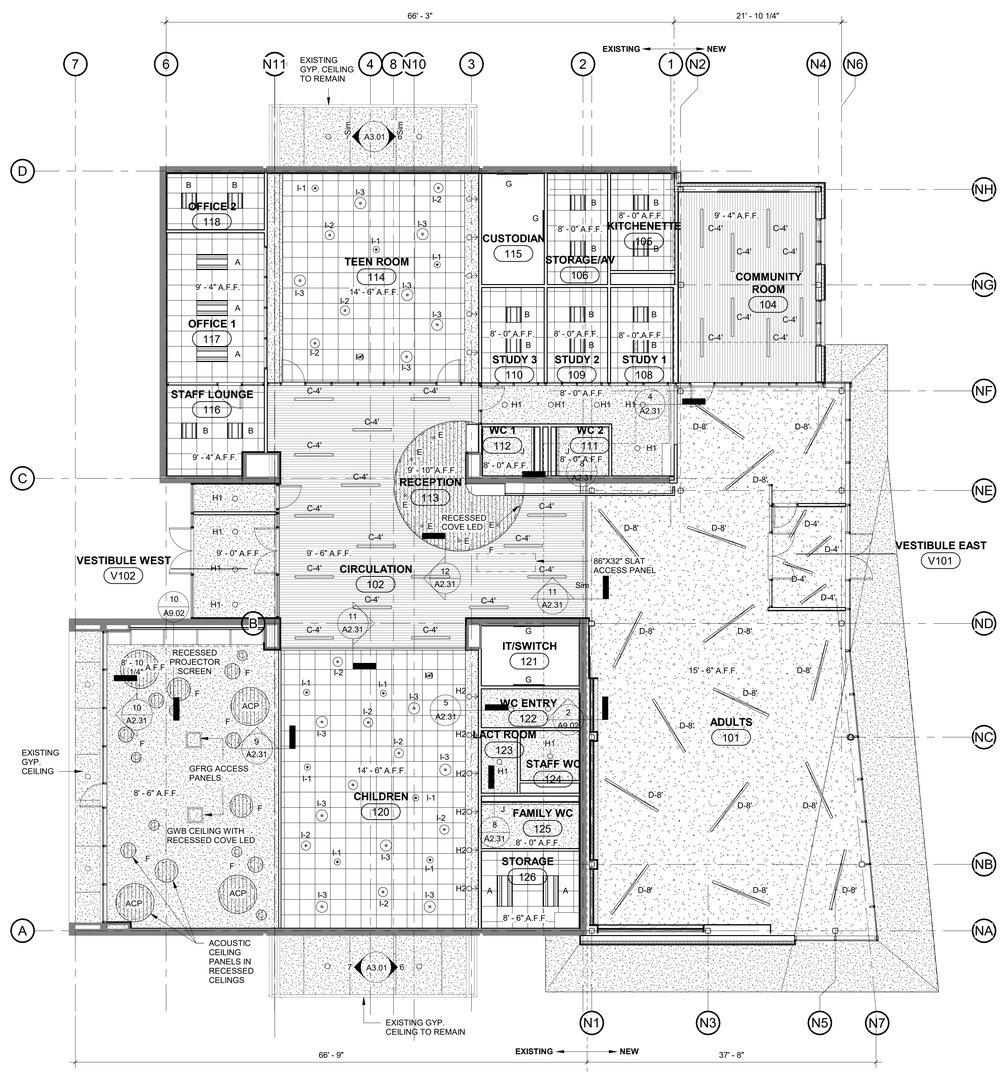
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

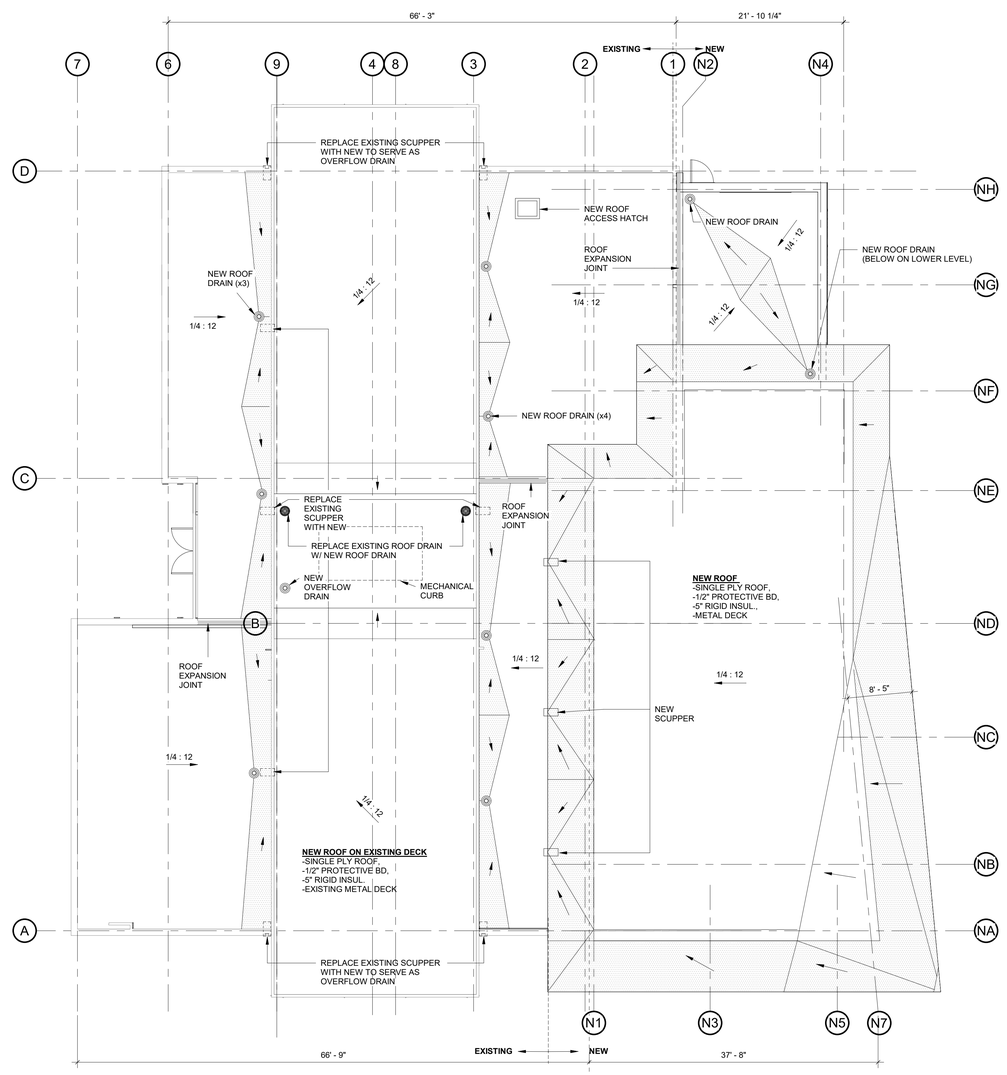
NO.	DATE	PURPOSE

A1.01

10/8/2022 10:59:48 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



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



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

CEILING LEGEND

- 2X2 ACT
- GWB
- ACOUSTIC GWB
- ACP ON GWB CEILING
- METAL PANEL
- WOOD PANEL
- WOOD SLATS
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- SPRINKLER
- CEILING MOUNTED CAMERA
- CIRCLE CEILING MOUNTED SPEAKER
- SQUARE CEILING MOUNTED SPEAKER

ROOF LEGEND

- EPDM ROOFING ON RIGID INSULATION
- EPDM ROOFING ON TAPERED INSULATION (5" MIN.)
- EPDM ROOFING ON ROOF CRICKET OR SADDLE
- NEW ROOF DRAIN IN EXISTING DRAIN LOCATION
- NEW ROOF DRAIN
- LINE OF WALKWAY PAD

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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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
FIRST FLOOR REFLECTED CEILING PLAN

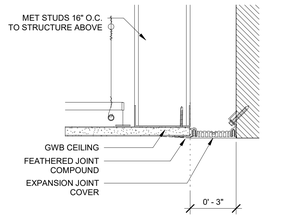
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

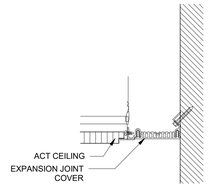
NO.	DATE	PURPOSE

A2.01

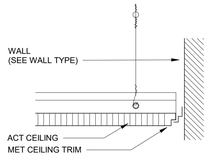
10/8/2022 11:10:07 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



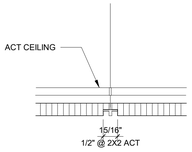
4 EXPANSION JOINT - GYP TO WALL
3" = 1'-0"



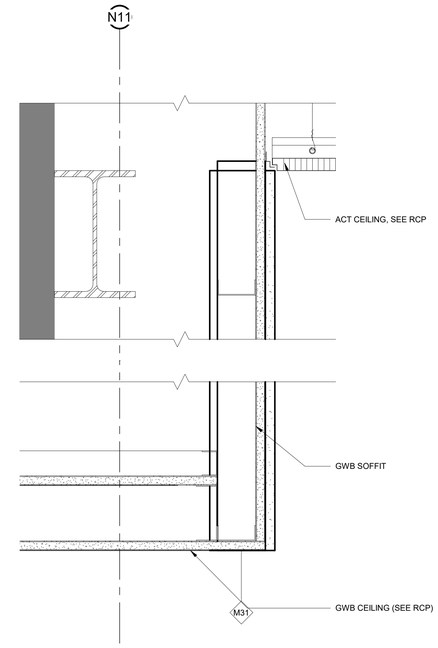
3 EXPANSION JOINT - ACT TO WALL
3" = 1'-0"



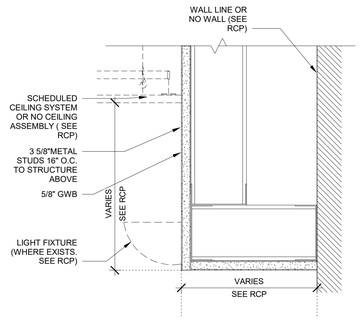
2 ACT CEILING AT WALL (TYP.)
3" = 1'-0"



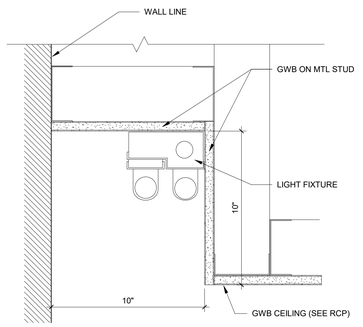
1 ACT CEILING (TYP.)
3" = 1'-0"



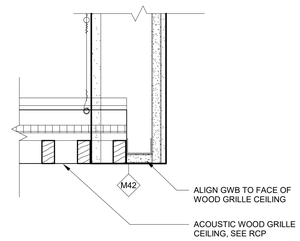
9 CEILING DETAIL @ CHILDREN'S ROOM
3" = 1'-0"



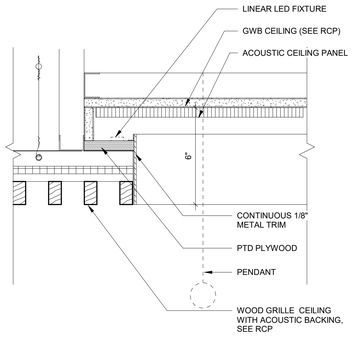
5 GWB SOFFIT - GWB / WALL
3" = 1'-0"



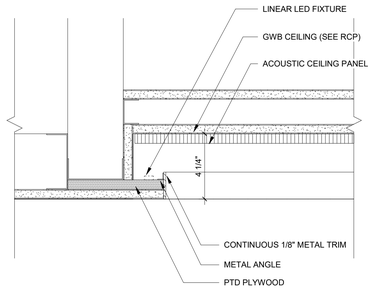
8 LIGHT POCKET AT TOITLET
3" = 1'-0"



11 WOOD CEILING TO GWB TYP.
3" = 1'-0"



12 CIRCULAR COVE LIGHT DETAIL @ RECEPTION
3" = 1'-0"



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

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DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

CEILING DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	3" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

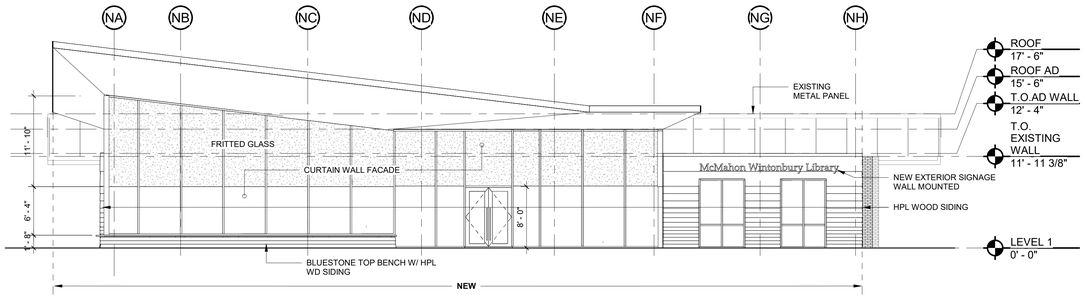
NO.	DATE	PURPOSE

A2.31

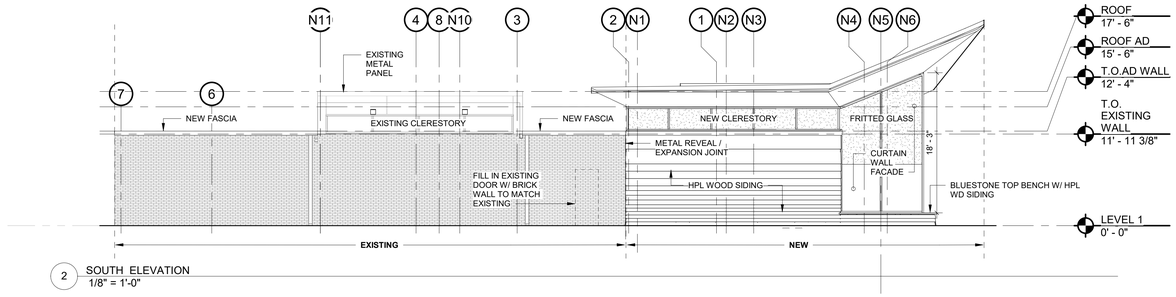
10/7/2022 8:44:43 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon LibraryArch-BIM360-2021.rvt

EXTERIOR ELEVATION NOTES:

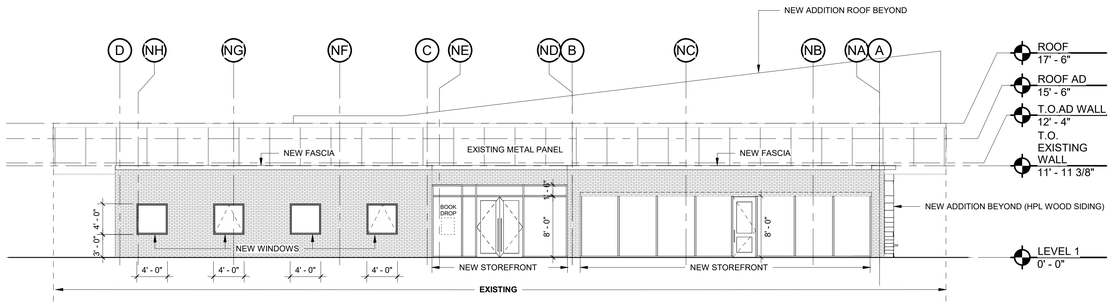
1. ALL EXTERIOR WINDOWS ARE STOREFRONT (ST) UNLESS OTHERWISE NOTED. REFER TO A0.01 FOR MORE INFORMATION.



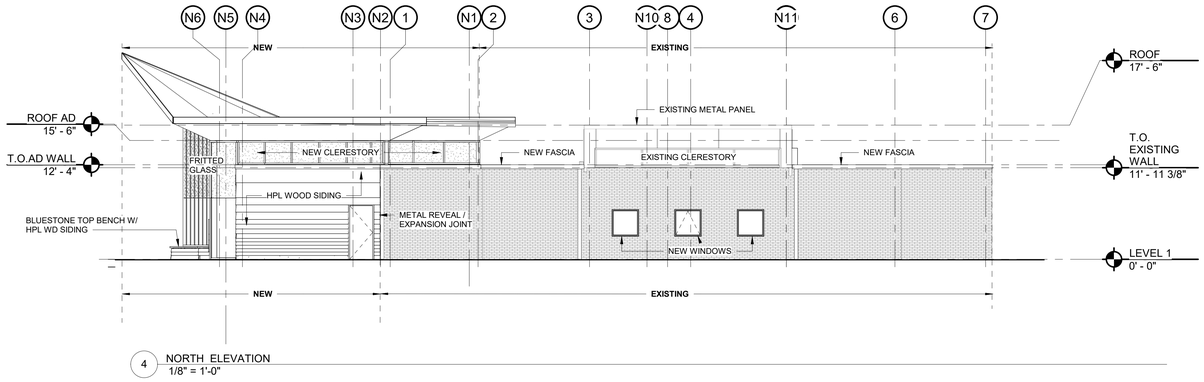
1 EAST ELEVATION
1/8" = 1'-0"



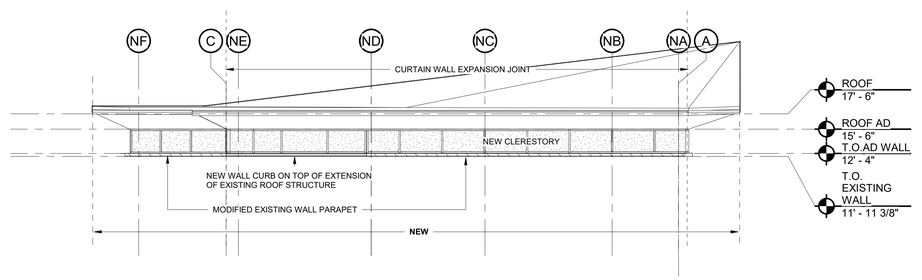
2 SOUTH ELEVATION
1/8" = 1'-0"



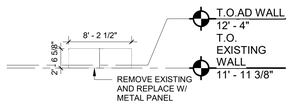
3 WEST ELEVATION
1/8" = 1'-0"



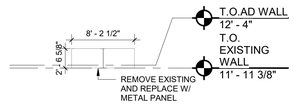
4 NORTH ELEVATION
1/8" = 1'-0"



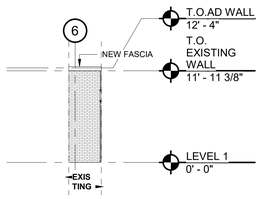
5 CLERESTORY WEST ELEVATION
1/8" = 1'-0"



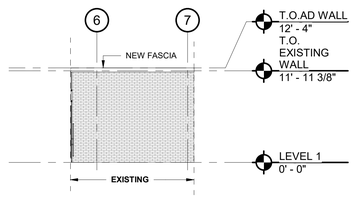
6 EXISTING OVERHANG STRUCTURE
EAST SIDE ELEV. TYP.
1/8" = 1'-0"



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



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



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

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

EXTERIOR ELEVATIONS

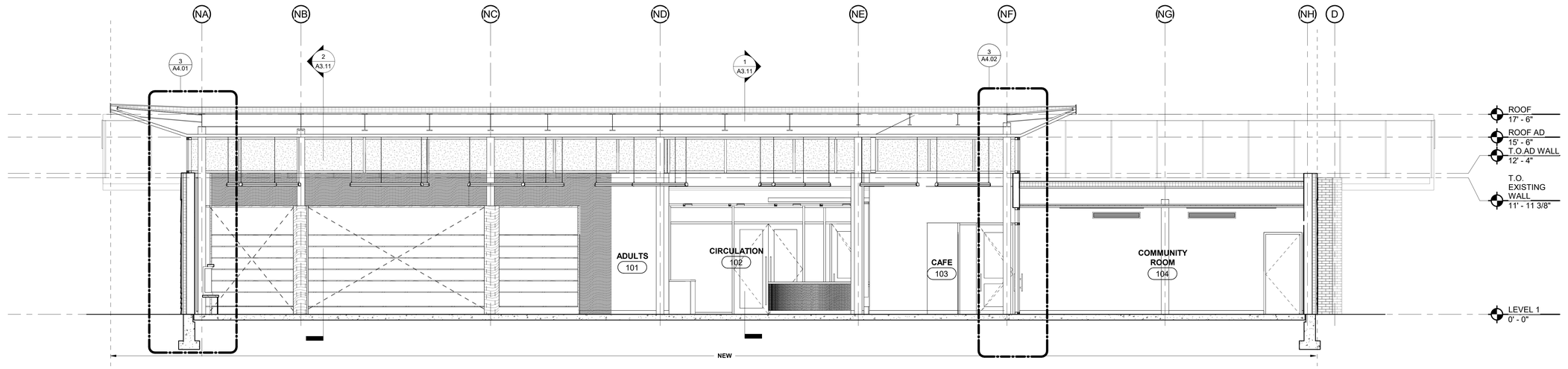
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

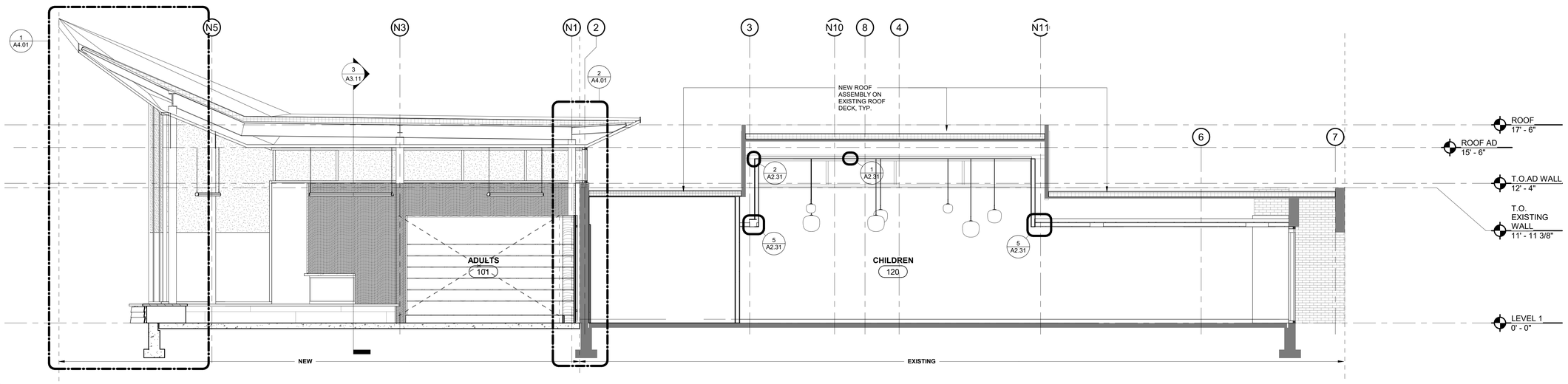
NO.	DATE	PURPOSE

A3.01

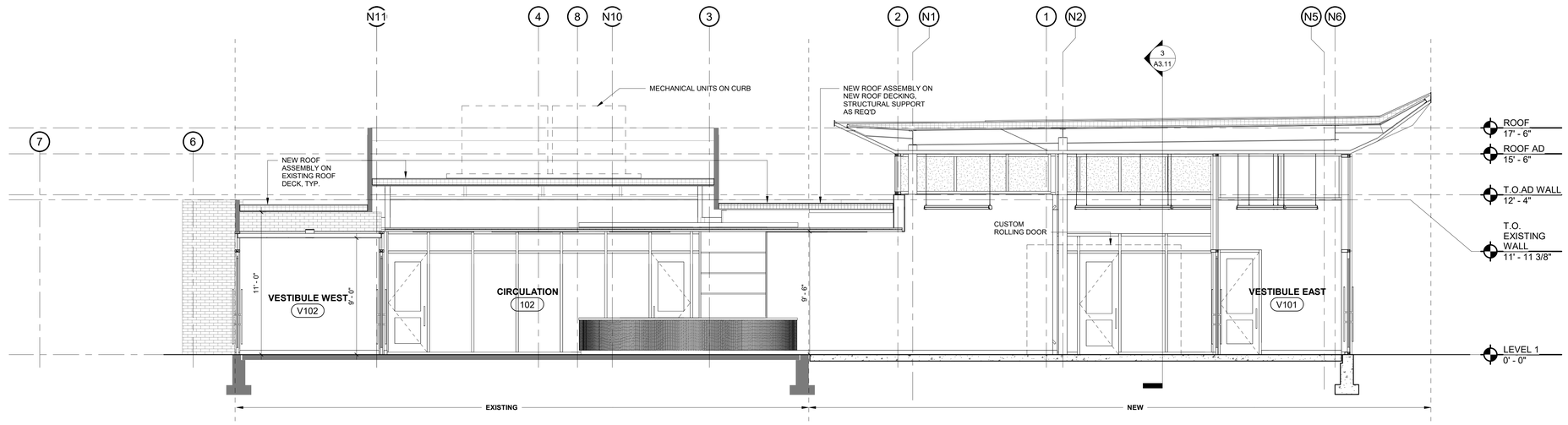
10/8/2022 11:09:08 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



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
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
BUILDING SECTIONS

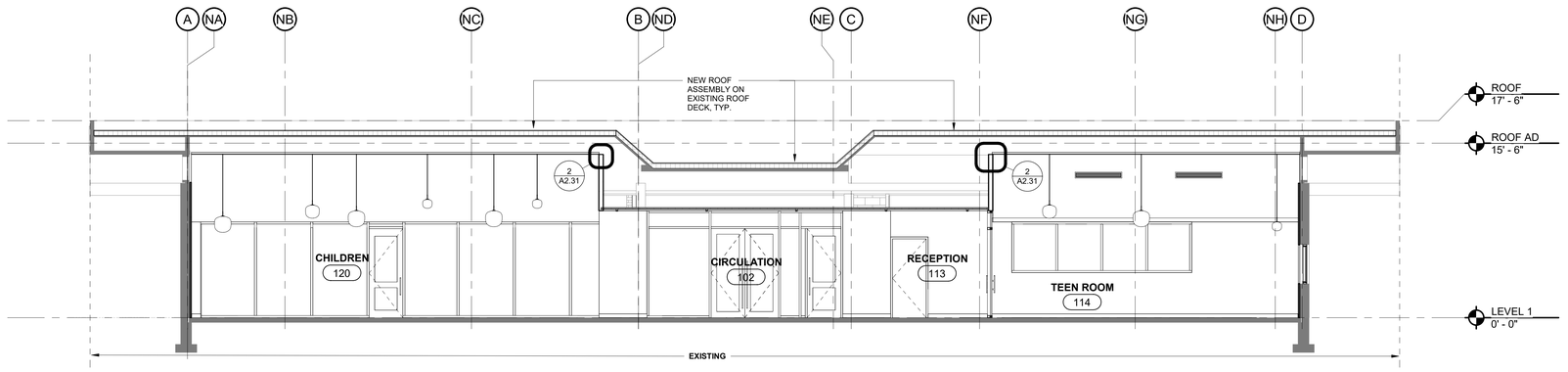
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

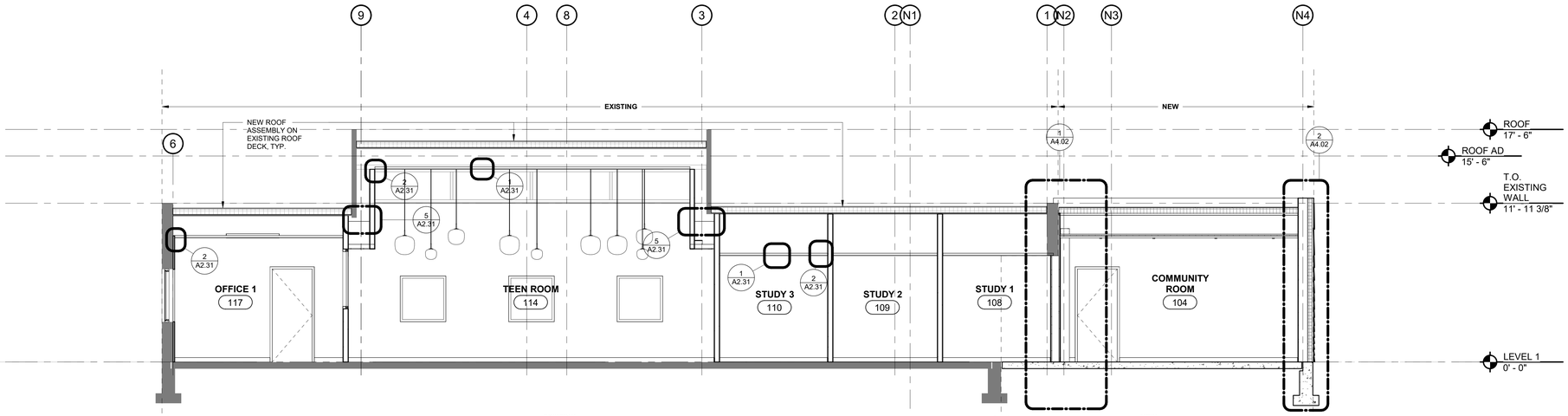
NO.	DATE	PURPOSE

A3.11

10/8/2022 11:10:46 PM BIM 360://Bloomfield Library - McMahon Building/221003 - 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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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

BUILDING SECTIONS

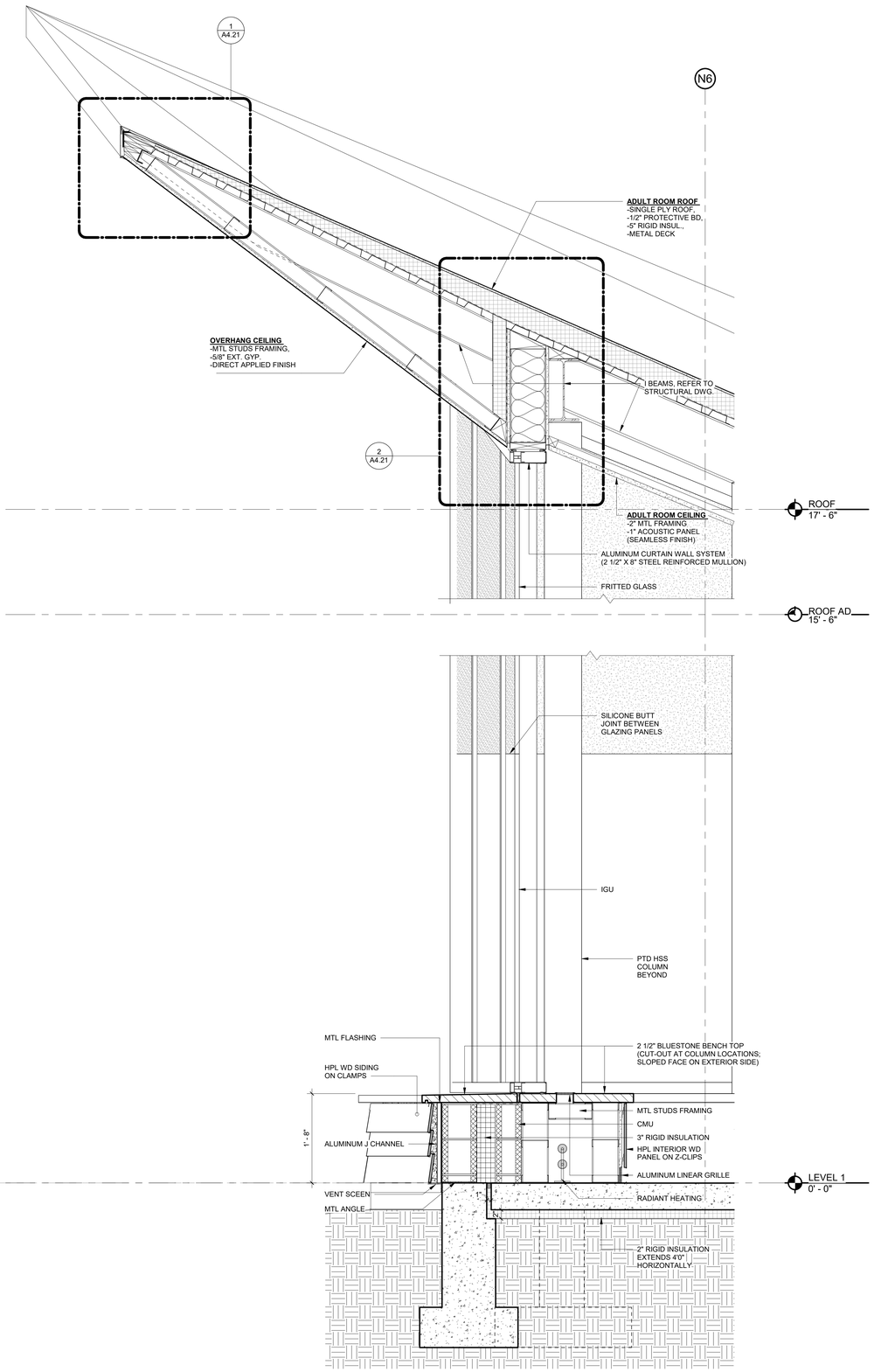
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

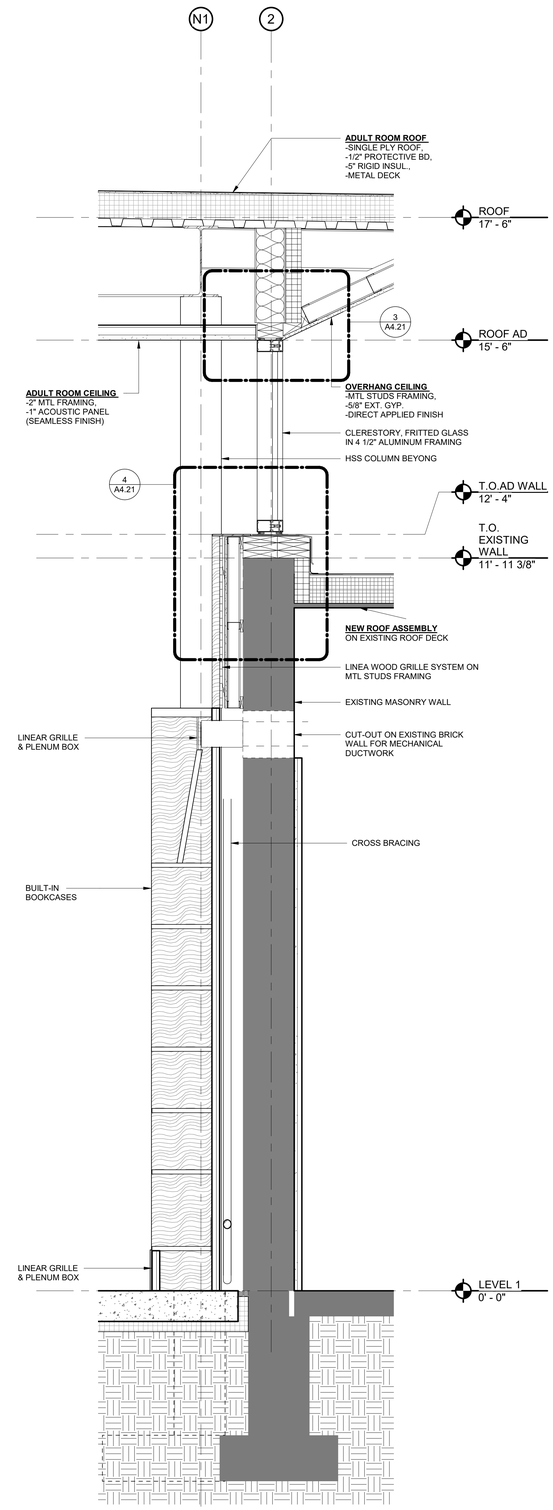
NO.	DATE	PURPOSE

A3.12

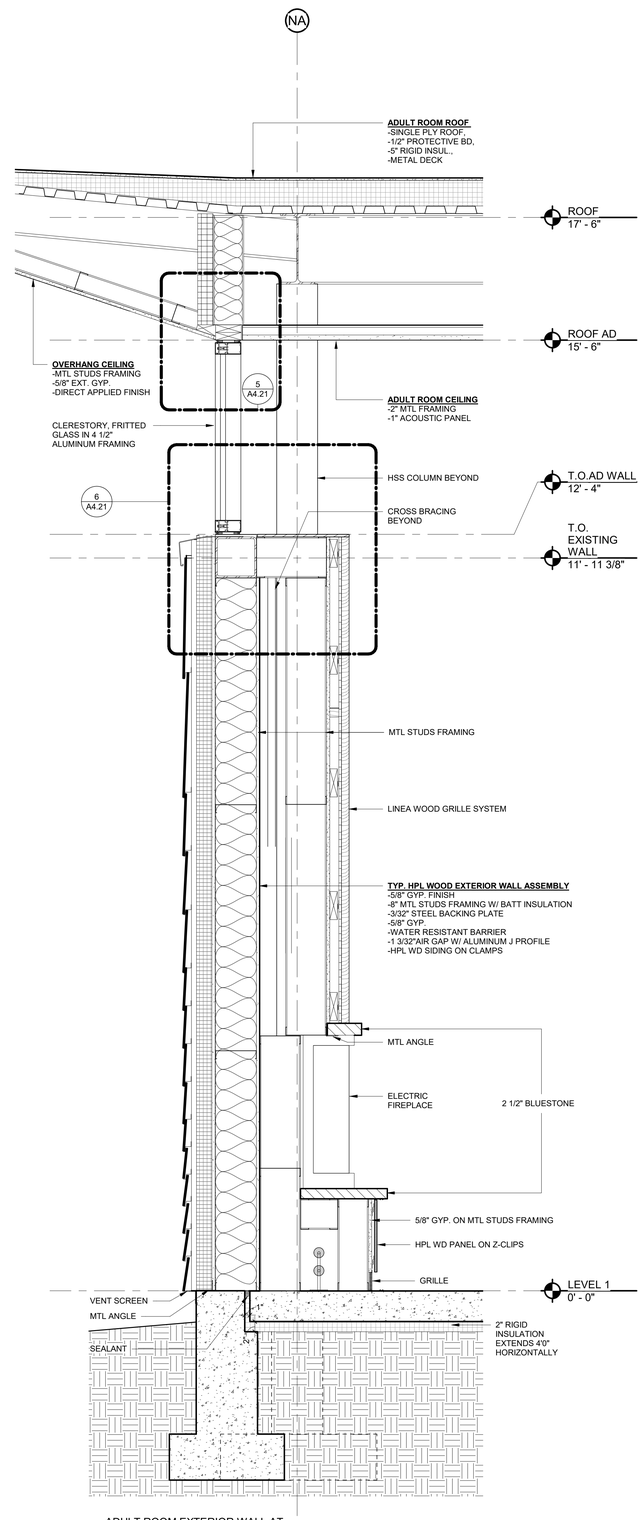
10/8/2022 11:11:16 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



1 ADULT ROOM CURTAIN WALL AND BENCH
1" = 1'-0"



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



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

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
WALL SECTION -1

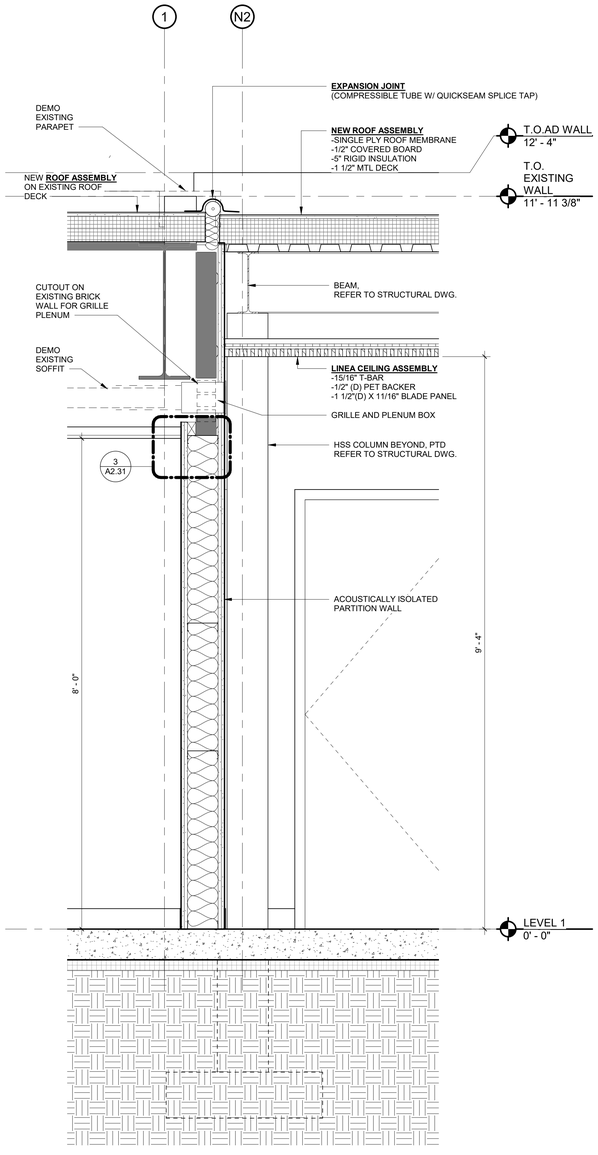
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

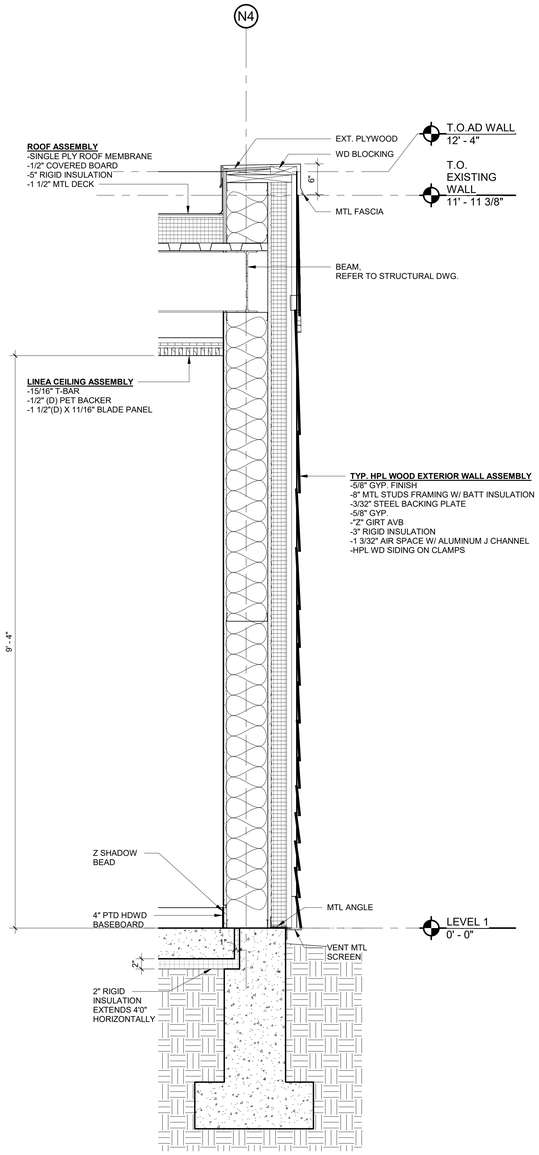
NO.	DATE	PURPOSE

A4.01

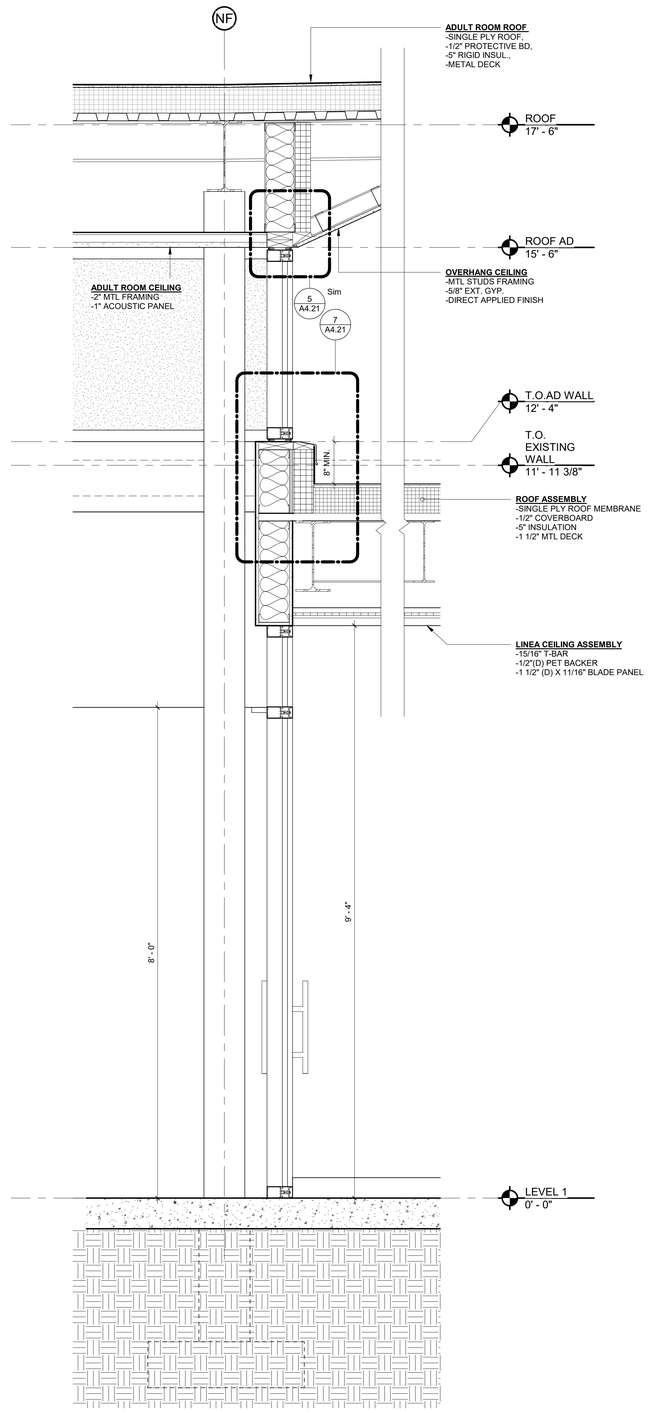
10/8/2022 11:11:50 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



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



2 COMMUNITY ROOM EXTERIOR WALL - HPL WOOD OPTION
1" = 1'-0"



3 COMMUNITY ROOM / CAFE
1" = 1'-0"

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

WALL SECTION -2

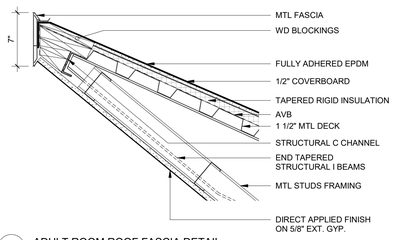
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

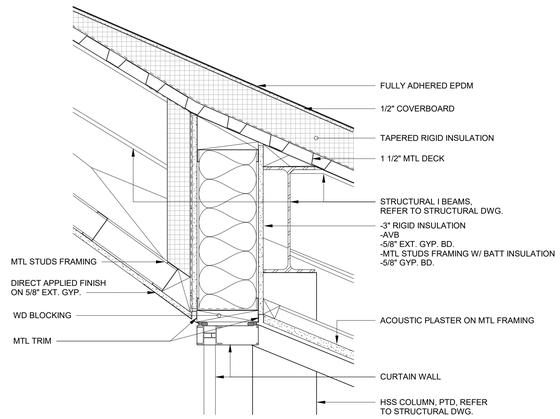
NO.	DATE	PURPOSE

A4.02

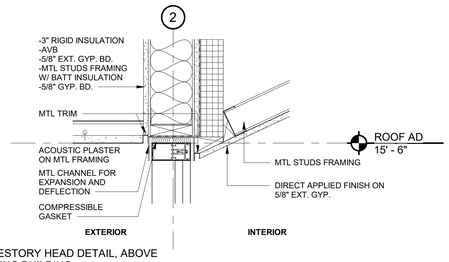
10/6/2022 11:12:24 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



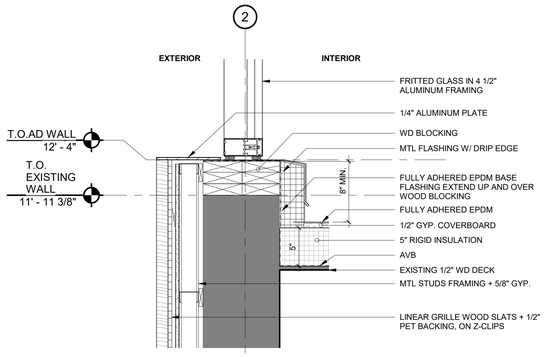
1 ADULT ROOM ROOF FASCIA DETAIL
1 1/2" = 1'-0"



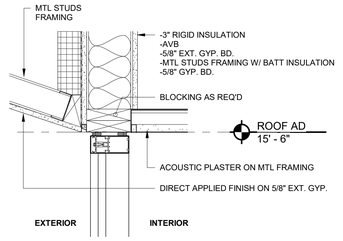
2 ADULT ROOM CURTAIN WALL HEAD DETAIL
1 1/2" = 1'-0"



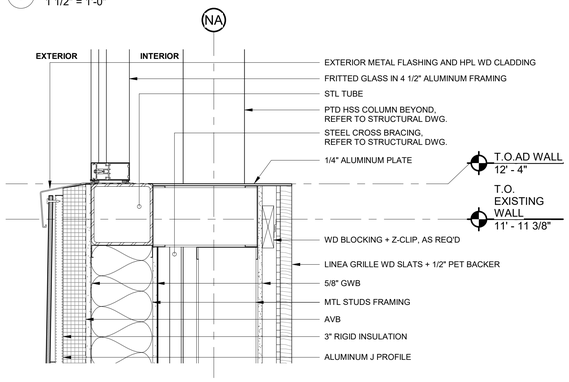
3 CLERESTORY HEAD DETAIL, ABOVE EXISTING BUILDING
1 1/2" = 1'-0"



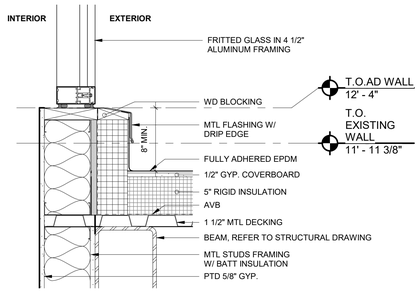
4 CLERESTORY SILL DETAIL, ABOVE EXISTING BUILDING PARAPET
1 1/2" = 1'-0"



5 CLERESTORY HEAD DETAIL, TYP.
1 1/2" = 1'-0"

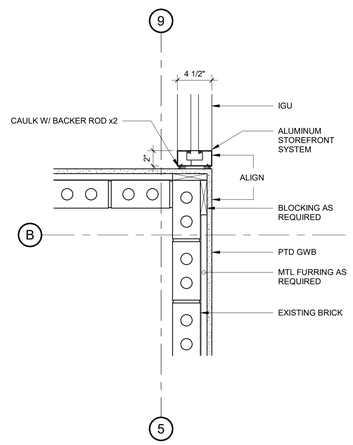


6 CLERESTORY SILL DETAIL TYP.
1 1/2" = 1'-0"

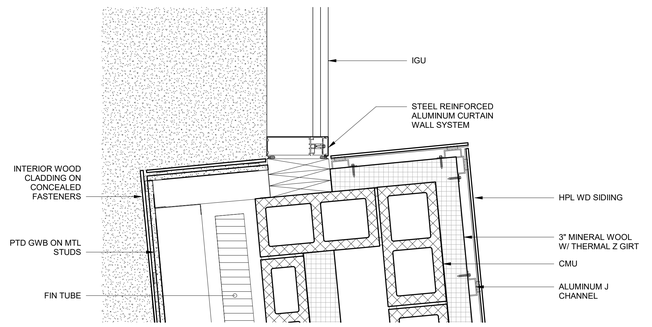


7 CLERESTORY SILL DETAIL @ CAFE
1 1/2" = 1'-0"

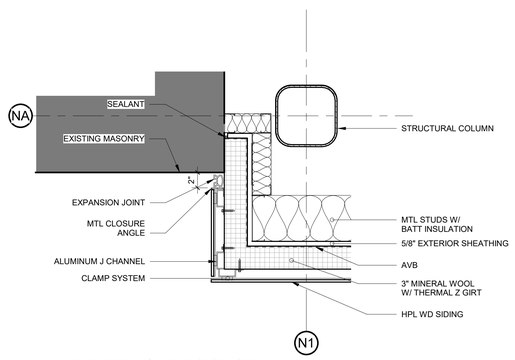
9 PLAN DETAIL @ ADULT CASEWORK
1 1/2" = 1'-0"



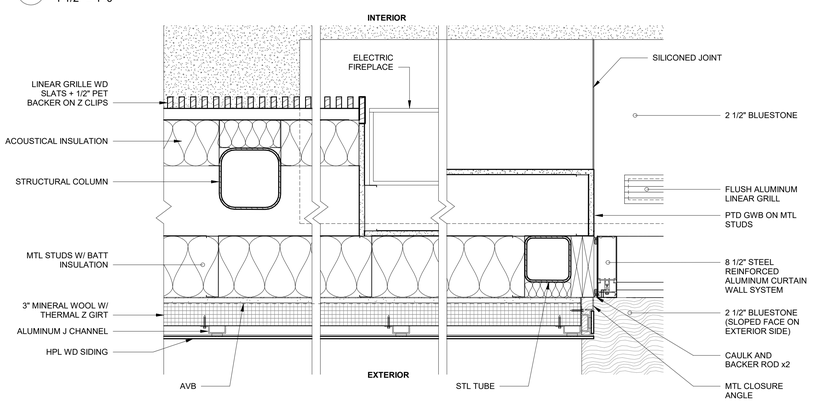
8 PLAN DETAIL @ CHILDREN'S AREA
1 1/2" = 1'-0"



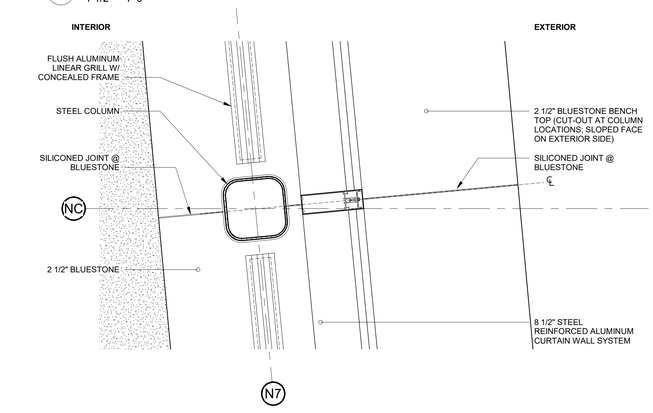
13 PLAN DETAIL @ END OF BENCH
1 1/2" = 1'-0"



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



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



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

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BLOOMFIELD, CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SECTION AND PLAN DETAILS

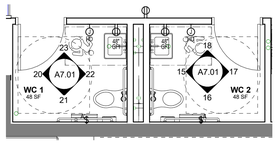
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1 1/2" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

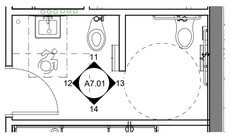
NO.	DATE	PURPOSE

A4.21

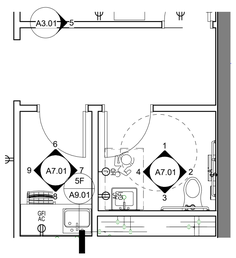
10/8/2022 11:14:49 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



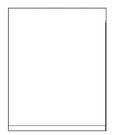
19 GENERAL WC ENLARGED PLAN
1/4" = 1'-0"



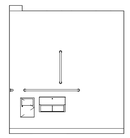
10 FAMILY WC ENLARGED PLAN
1/4" = 1'-0"



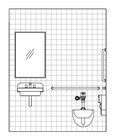
5 STAFF TOILET ENLARGED PLAN
1/4" = 1'-0"



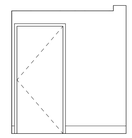
20 WC1 WEST
1/4" = 1'-0"



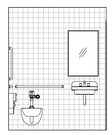
21 WC 1 SOUTH
1/4" = 1'-0"



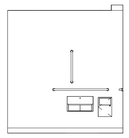
22 WC 1 EAST
1/4" = 1'-0"



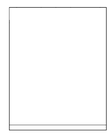
23 WC 1 NORTH
1/4" = 1'-0"



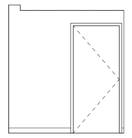
15 WC2 WEST
1/4" = 1'-0"



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



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



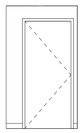
18 WC2 NORTH
1/4" = 1'-0"

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

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

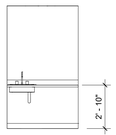
13 FAMILY WC EAST
1/4" = 1'-0"

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



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

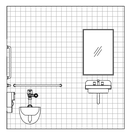
7 LACTATION ROOM EAST
1/4" = 1'-0"



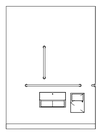
8 LACTATION ROOM SOUTH
1/4" = 1'-0"

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

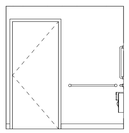
4 STAFF WC WEST
1/4" = 1'-0"



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



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



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

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	NOT USED
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

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

TOILET PLANS AND ELEVATIONS

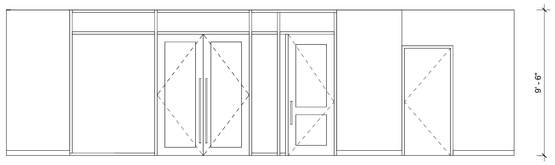
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

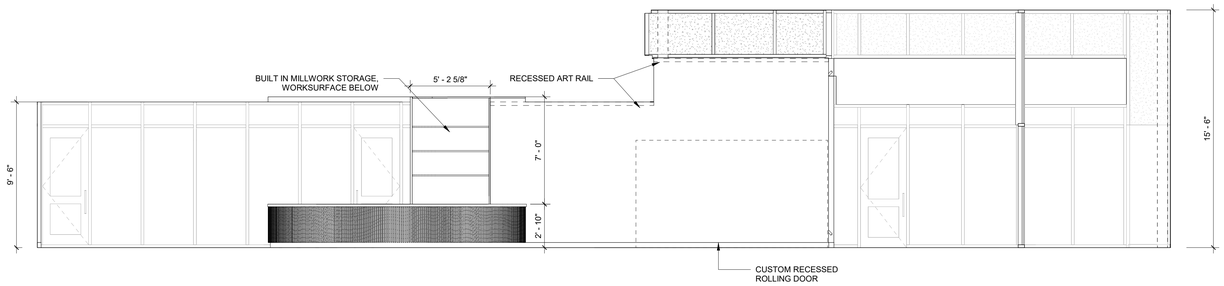
NO.	DATE	PURPOSE

A7.01

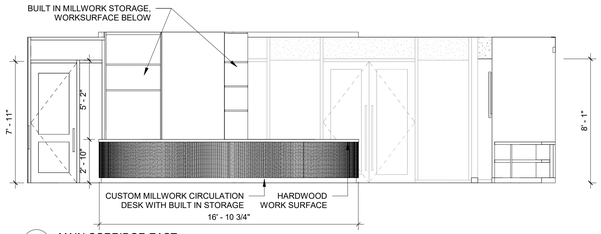
10/7/2022 6:45:03 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



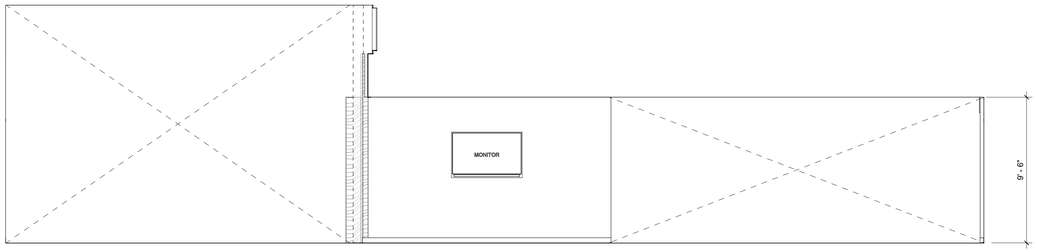
16 MAIN CORRIDOR WEST
1/4" = 1'-0"



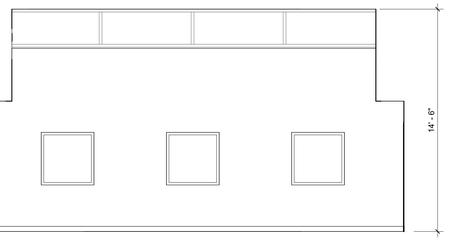
15 MAIN CORRIDOR NORTH
1/4" = 1'-0"



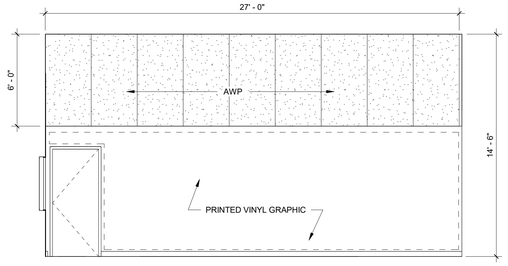
14 MAIN CORRIDOR EAST
1/4" = 1'-0"



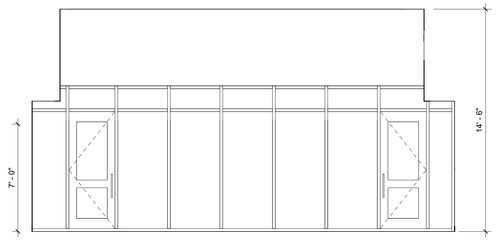
13 MAIN CORRIDOR SOUTH
1/4" = 1'-0"



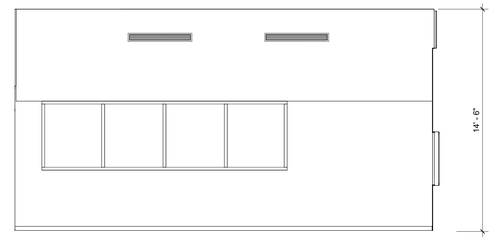
12 INTERIOR ELEVATION TEENS - SOUTH
1/4" = 1'-0"



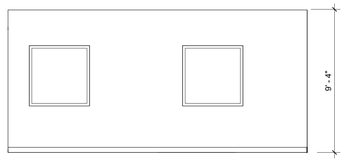
11 INTERIOR ELEVATION TEENS - EAST
1/4" = 1'-0"



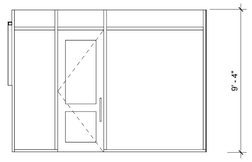
10 INTERIOR ELEVATION TEENS- SOUTH
1/4" = 1'-0"



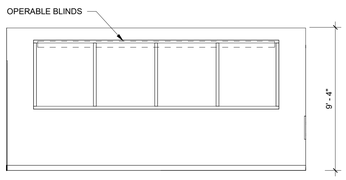
9 INTERIOR ELEVATION TEENS - WEST
1/4" = 1'-0"



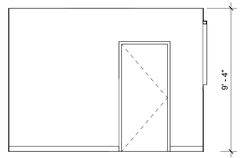
8 OFFICE WEST
1/4" = 1'-0"



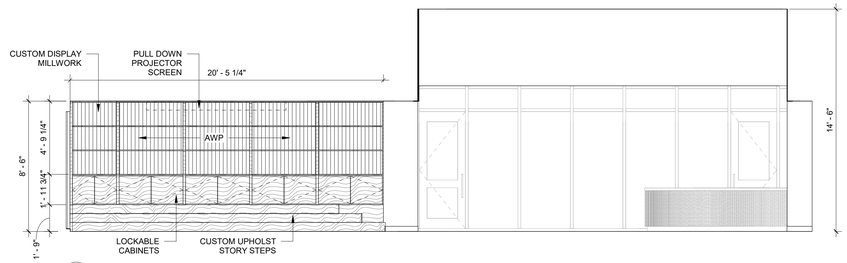
7 OFFICE SOUTH
1/4" = 1'-0"



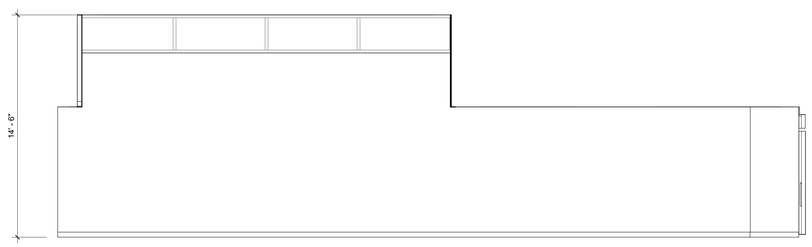
6 OFFICE EAST
1/4" = 1'-0"



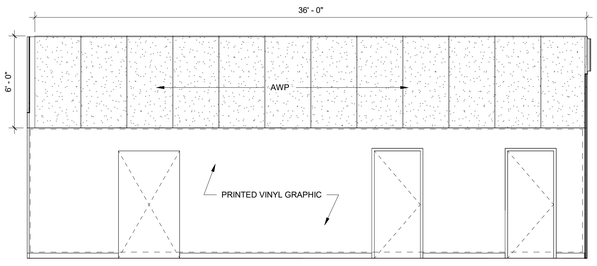
5 OFFICE NORTH
1/4" = 1'-0"



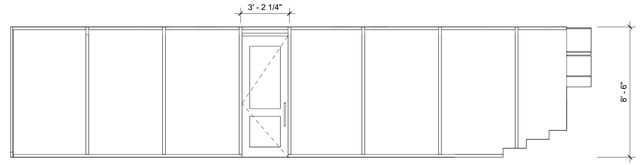
4 CHILDREN'S ROOM NORTH
1/4" = 1'-0"



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



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



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

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

INTERIOR ELEVATIONS CORRIDOR TEENS AND CHILDRENS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

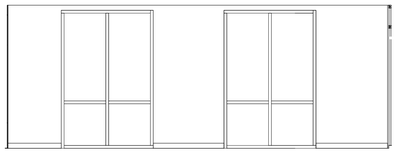
ISSUE DATES

NO.	DATE	PURPOSE

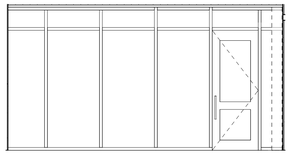
A8.01

10/7/2022 6:45:07 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt

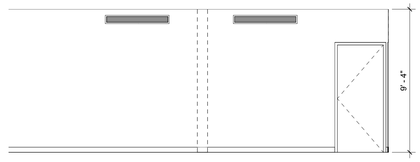
21 COMMUNITY ROOM NORTH
1/4" = 1'-0"



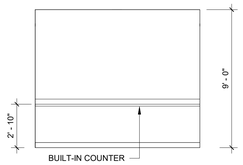
20 COMMUNITY ROOM EAST
1/4" = 1'-0"



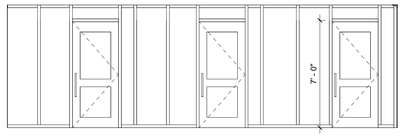
19 COMMUNITY ROOM SOUTH
1/4" = 1'-0"



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



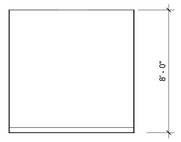
11 VESTIBULE WEST - SOUTH
1/4" = 1'-0"



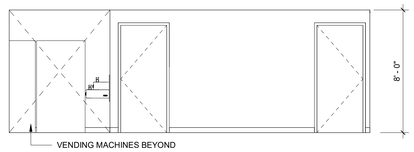
17 MEETING ROOMS AND TEENS
1/4" = 1'-0"

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

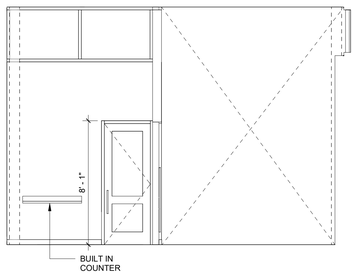
15 TYP. STUDY EAST
1/4" = 1'-0"



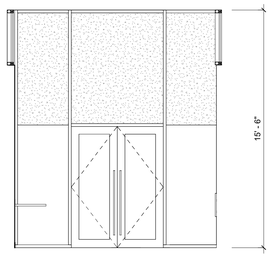
14 TYP. STUDY NORTH
1/4" = 1'-0"



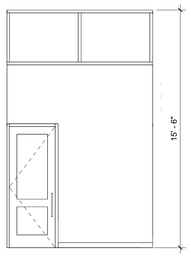
13 VENDING CORRIDOR SOUTH
1/4" = 1'-0"



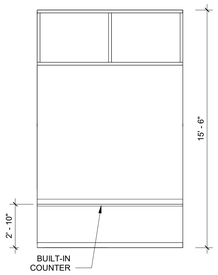
8 INTERIOR ELEVATION - CAFE - SOUTH
1/4" = 1'-0"



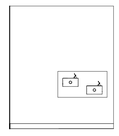
4 VESTIBULE EAST - WEST
1/4" = 1'-0"



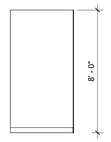
9 VESTIBULE EAST - NORTH
1/4" = 1'-0"



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

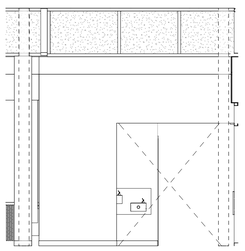


22 VENDING CORRIDOR EAST
1/4" = 1'-0"

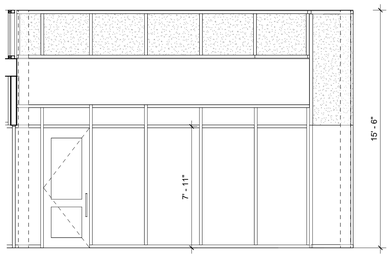


23 VENDING CORRIDOR WEST
1/4" = 1'-0"

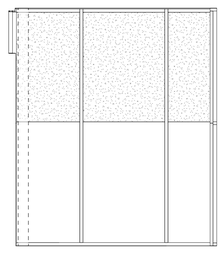
12 VESTIBULE WEST - NORTH
1/4" = 1'-0"



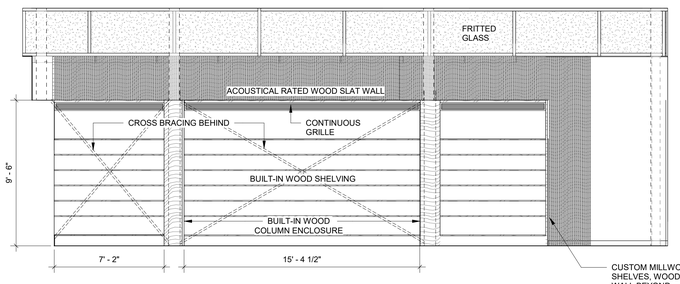
7 INTERIOR ELEVATION - CAFE - WEST
1/4" = 1'-0"



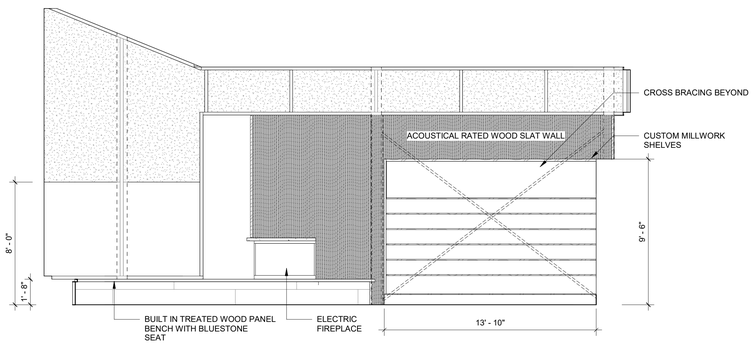
6 INTERIOR ELEVATION - CAFE - NORTH
1/4" = 1'-0"



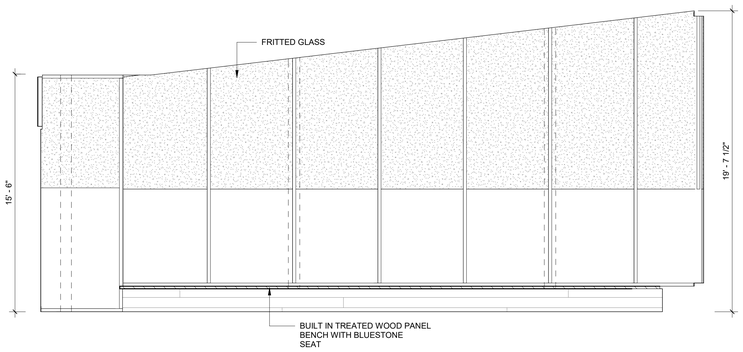
5 INTERIOR ELEVATION - CAFE - EAST
1/4" = 1'-0"



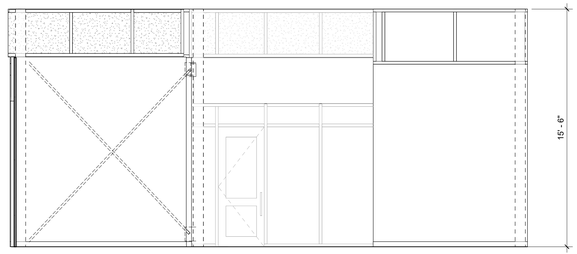
1 ADULTS - WEST
1/4" = 1'-0"



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



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



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

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BLOOMFIELD, CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

INTERIOR ELEVATIONS
ADULTS, COMMUNITY, CAFE

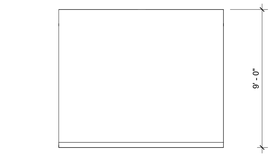
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

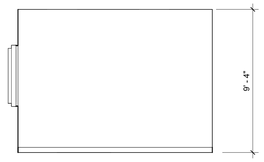
A8.02

10/7/2022 6:45:10 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt

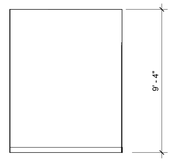


24 BOOK DROP NORTH
1/4" = 1'-0"

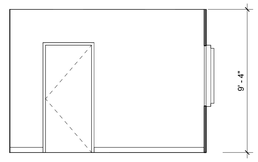
25 BOOK DROP SOUTH
1/4" = 1'-0"



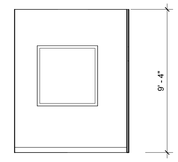
26 OFFICE 2 NORTH
1/4" = 1'-0"



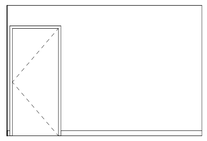
27 OFFICE 2 EAST
1/4" = 1'-0"



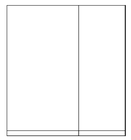
28 OFFICE 2 SOUTH
1/4" = 1'-0"



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



18 IT SOUTH
1/4" = 1'-0"

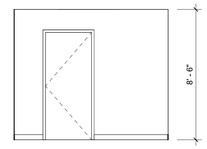


19 IT WEST
1/4" = 1'-0"

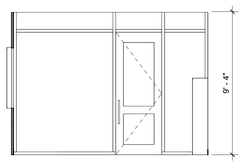
20 STORAGE NORTH
1/4" = 1'-0"

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

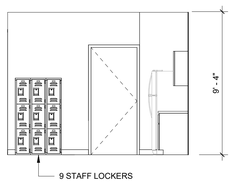
22 STORAGE SOUTH
1/4" = 1'-0"



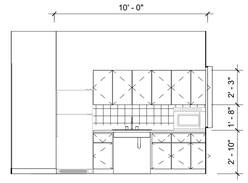
23 STORAGE WEST
1/4" = 1'-0"



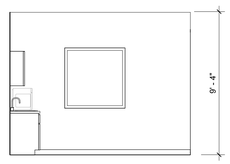
12 STAFF LOUNGE NORTH
1/4" = 1'-0"



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

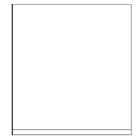


14 STAFF LOUNGE SOUTH
1/4" = 1'-0"

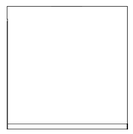


15 STAFF LOUNGE WEST
1/4" = 1'-0"

16 IT NORTH
1/4" = 1'-0"

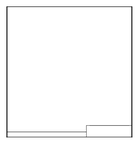


17 IT EAST
1/4" = 1'-0"



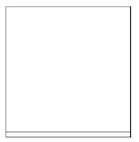
7 AV SOUTH
1/4" = 1'-0"

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

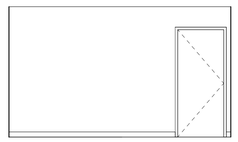


9 CUSTODIAN NORTH
1/4" = 1'-0"

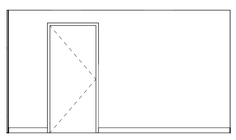
10 CUSTODIAN EAST
1/4" = 1'-0"



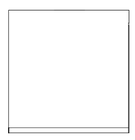
11 CUSTODIAN SOUTH
1/4" = 1'-0"



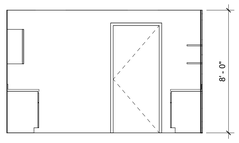
30 CUSTODIAN WEST
1/4" = 1'-0"



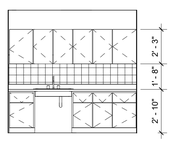
6 AV EAST
1/4" = 1'-0"



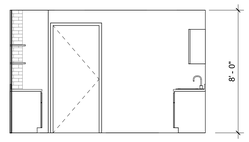
5 AV NORTH
1/4" = 1'-0"



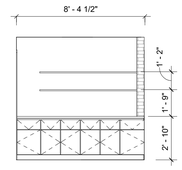
4 KITCHENETTE WEST
1/4" = 1'-0"



3 KITCHENTTE SOUTH
1/4" = 1'-0"



2 KITCHENETTE EAST
1/4" = 1'-0"



1 KITCHENETTE NORTH
1/4" = 1'-0"

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BLOOMFIELD. CT 06002

PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
INTERIOR ELEVATIONS
STAFF SPACE

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

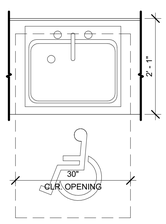
NO.	DATE	PURPOSE

A8.03

10/7/2022 8:45:14 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon LibraryArch-BIM360-2021.rvt

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

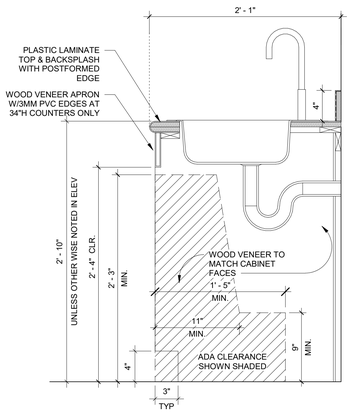
11B TYP. ADA SINK ELEVATION
3/4" = 1'-0"



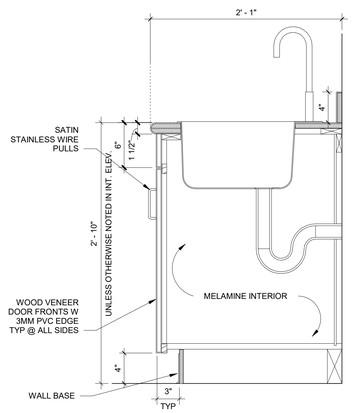
11C TYP. ADA SINK PLAN
3/4" = 1'-0"

10F CW - OVERHEAD CAB. SECT. (TYP)
1 1/2" = 1'-0"

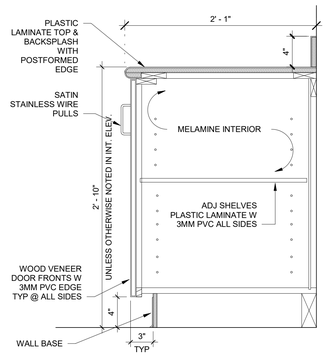
3C CW - BASE CAB. DOOR & DRAWER (TYP)
1 1/2" = 1'-0"



5F CW - ADA SINK SECTION (TYP)
1 1/2" = 1'-0"



3F CW - BASE CABINET SINK SECTION (TYP)
1 1/2" = 1'-0"



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

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Hartford, CT 06106
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BLOOMFIELD. CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

TPYICAL MILLWORK DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

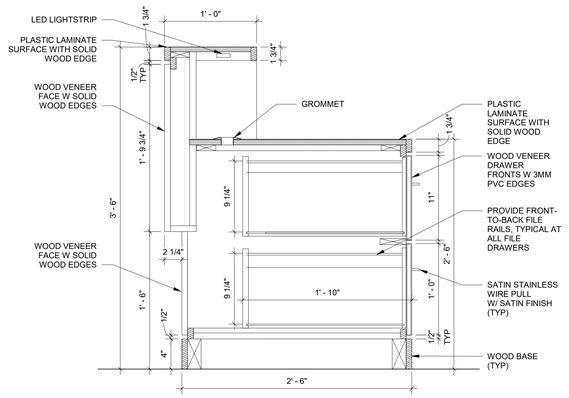
ISSUE DATES

NO.	DATE	PURPOSE

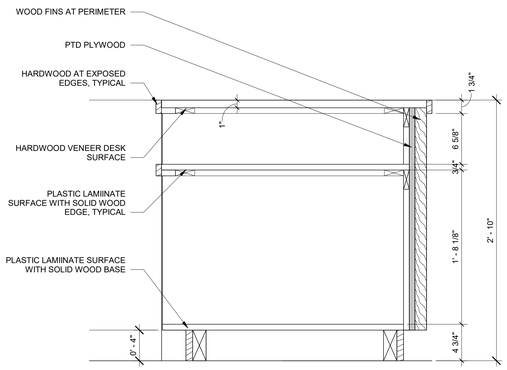
A9.01

10/7/2022 6:45:15 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt

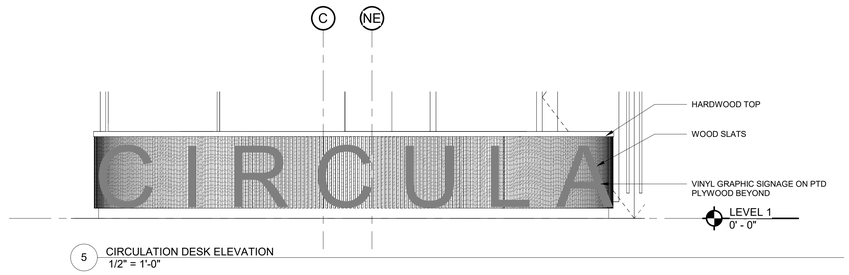
NOTE: CONTRACTOR TO ABIDE BY AWI STANDARDS FOR CUSTOM GRADE CABINETS. ECONOMY GRADE SHALL NOT BE ACCEPTED



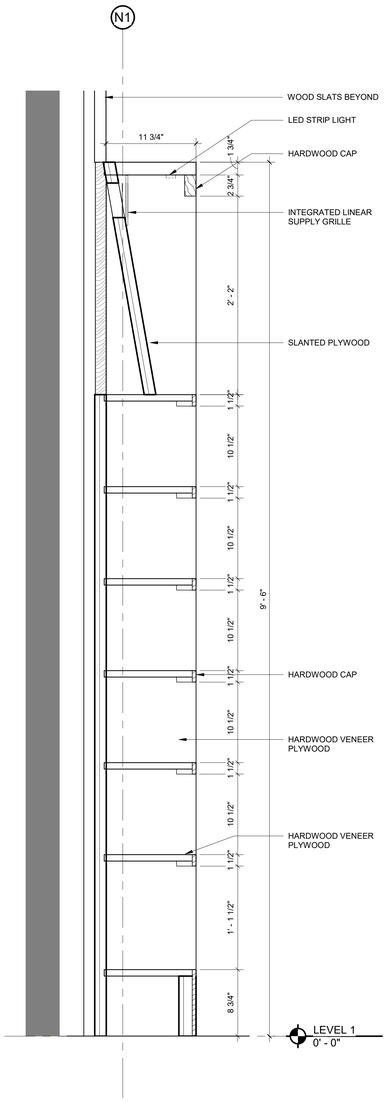
7 CW - SECTION AT RECEPTION DESK
1 1/2" = 1'-0"



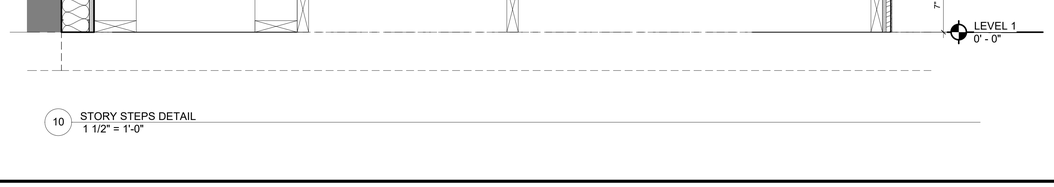
1 CW - TYP DESK SECTION @ OPEN SHELVES
1 1/2" = 1'-0"



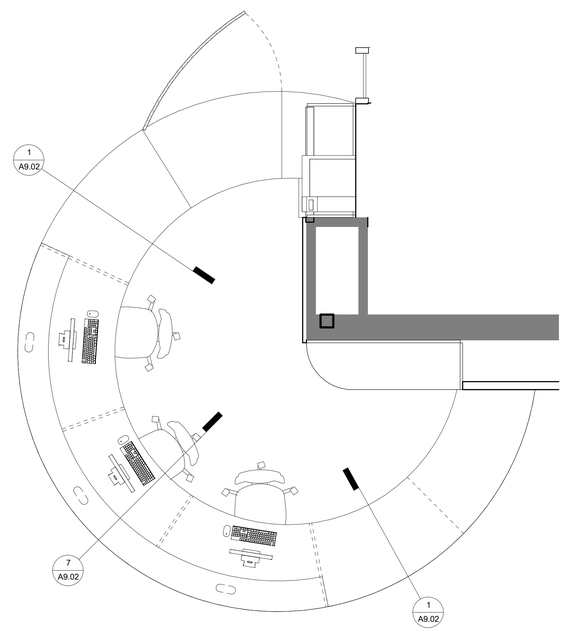
5 CIRCULATION DESK ELEVATION
1/2" = 1'-0"



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



10 STORY STEPS DETAIL
1 1/2" = 1'-0"



4 CIRCULATION DESK PLAN
1/2" = 1'-0"

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

MILWORK DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
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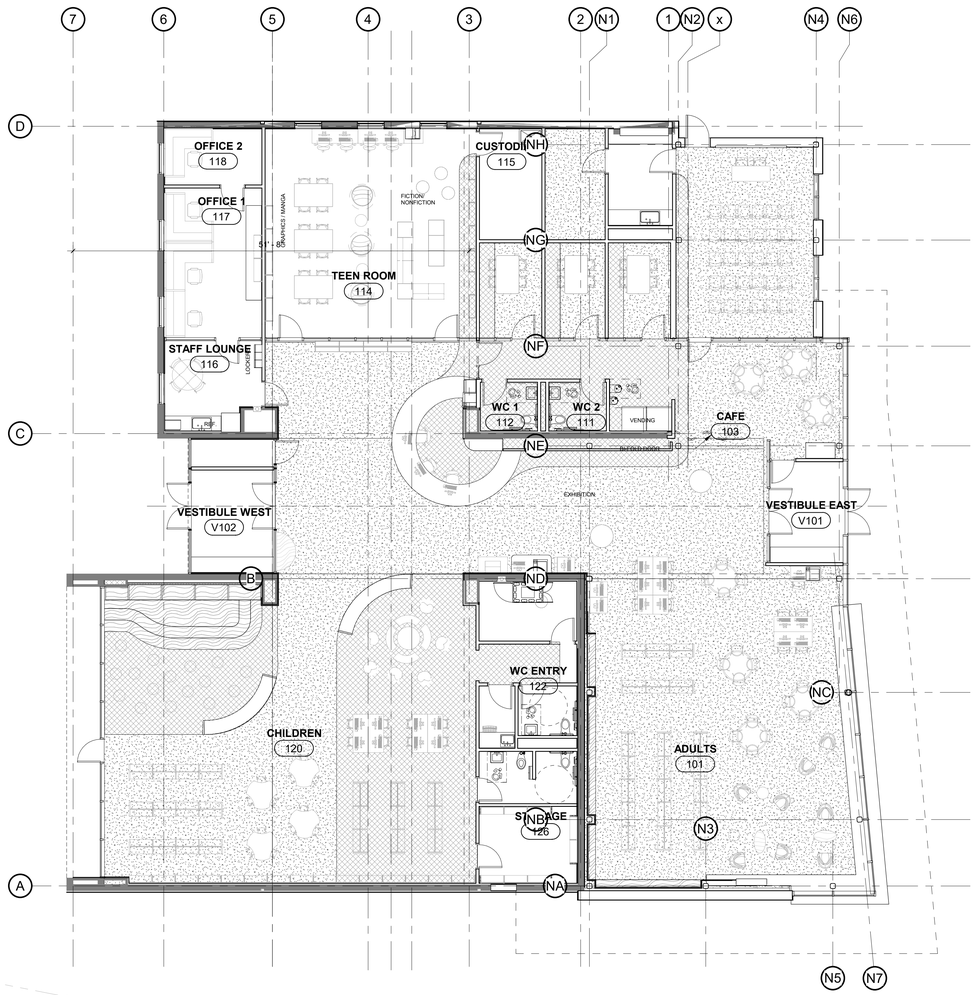
ISSUE DATES

NO.	DATE	PURPOSE

A9.02

10/7/2022 6:45:16 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



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

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	ADULTS	CPT	WD	WD	WD	WD	GWB	P			WD		WD		GWB	ACOUSTIC	VARIES	
102	CIRCULATION	CPT	WD	WD	WD	WD	GWB	P			GWB	P					VARIES	
103	CAFE	CPT	WD	WD		WD	GWB	P			GWB	P	GWB	P	GWB	ACOUSTIC	15' 6"	
104	COMMUNITY ROOM	CPT	RB	RB		RB	GWB	P	GWB	P	GWB	P	GWB	P	WD		9' 4"	
105	KITCHENETTE	LNT	RB	RB	RB	RB	GWB	P	GWB	P	CT		GWB	P	ACT	2X2	8' 0"	
106	STORAGE/AV	LNT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P	ACT	2X2	8' 0"	
108	STUDY 1	CPT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P	ACT	2X2	8' 0"	
109	STUDY 2	CPT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P	ACT	2X2	8' 0"	
110	STUDY 3	CPT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P	ACT	2X2	8' 0"	
111	WC 2	CT	CT	CT	CT	CT	GWB	P	GWB	P	GWB	P	CT		GWB		8' 0"	
112	WC 1	CT	CT	CT	CT	CT	GWB	P	CT		GWB	P	GWB	P	GWB		8' 0"	
113	RECEPTION	CPT	RB						GWB	P			GWB	P	WD		9' 8"	
114	TEEN ROOM	CPT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P	ACT	2X2	14' 6"	
115	CUSTODIAN	CT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P	ACT	2X2		
116	STAFF LOUNGE	CPT	RB	RB	RB	RB									ACT	2X2	9' 4"	
117	OFFICE 1	CPT	RB	RB	RB	RB	GWB	P	GWB	P					ACT	2X2	9' 4"	
118	OFFICE 2	CPT	RB	RB	RB	RB			GWB	P					ACT	2X2	9' 4"	
120	CHILDREN	CPT	RB	RB	RB	RB			GWB	P	GWB	P			ACT	2X2	14' 6"	
121	IT/SWITCH	CPT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P				
122	WC ENTRY	CPT	RB	RB	RB	RB									ACT	2X2	8' 0"	
123	LACT ROOM	CT	CT	CT	CT	CT	GWB	P	GWB	P	CT		GWB	P	ACT	2X2	8' 0"	
124	STAFF WC	CT	CT	CT	CT	CT	GWB	P	GWB	P	CT		GWB	P	GWB		8' 0"	
125	FAMILY WC	CT	CT	CT	CT	CT	GWB	P	GWB	P	CT		CT		GWB		8' 0"	
126	STORAGE	CT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P	GWB		8' 0"	
C101	VENDING CORRIDOR	CPT	RB	RB	RB	RB	GWB	P	GWB	P	GWB	P	GWB	P			8' 0"	
C102	BOOK DROP		WD		RB		GWB	P			GWB	P			GWB		9' 0"	
V101	VESTIBULE EAST	WOM	WD		WD		GWB	P			GWB	P			GWB	ACOUSTIC	15' 6"	
V102	VESTIBULE WEST	WOM	WD		WD		GWB	P			GWB	P			GWB	ACOUSTIC	15' 6"	

FINISH SCHEDULE LEGEND

ACT - ACOUSTIC TILE
AWP - ACOUSTICAL WALL PANELS
CONC - CONCRETE
CMU - CONCRETE MASONRY UNIT
CPT - CARPET TILE
CT - CERAMIC TILE
EPOXY
EXTG - EXISTING
GFC - GROUND FACE CONCRETE
GL - GLASS
GWB - GYPSUM WALL BOARD
PT - PORCELAIN TILE
P - PAINTED
RB - RUBBER
SV - SOLID VINYL
WD - WOOD
WOM - WALK OFF MAT

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
FIRST FLOOR FINISH PLAN AND SCHEDULE

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A10.00

10/7/2022 8:45:23 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon LibraryArch-BIM360-2021.rvt

DOOR AND FRAME SCHEDULE

NUMBER	DETAIL DRAWING SHEET #	DOOR: SIZE: WIDTH	DOOR: SIZE: HEIGHT	SPECIAL - SEE REMARKS	DOOR: TYPE / MATERIAL: MATERIAL	DOOR: TYPE / MATERIAL: TYPE	FRAME: TYPE / MATERIAL: MATERIAL	FRAME: TYPE / MATERIAL: TYPE	FRAME: HEAD DETAIL	FRAME: JAMB DETAIL	FRAME: SADDLE DETAIL	FIRE RATING (MINUTES)	HARDWARE - SEE SPECIFICATIONSWT: FIRECODE: PANIC RELEASE LATCH	FIRECODE: POSITIVE LATCHING	FIRECODE: AUTOMATIC CLOSER	FIRECODE: E-M. HOLD OPEN	HARDWARE - SEE SPECIFICATIONSWT: DISABLED: LEVER U-HANDLE	DISABLED: ACCESSIBLE THRESHOLD	PUSH/PULL	HARDWARE - SEE SPECIFICATIONSWT: SIGNAGE: INTER. SYMBOL OF ACCESSIBILITY	SIGNAGE: SIGNAGE REQUIRED	SIGNAGE: TEXT	HARDWARE SET NUMBER	SECURITY DEVICE	REMARKS
104A		3' - 0"	7' - 9 7/8"		GLASS		ALUM					-													
104B		3' - 0"	7' - 0"		WOOD		WOOD					-													
105		3' - 0"	7' - 0"		WOOD		WOOD					-													
106		3' - 0"	7' - 0"		WOOD		WOOD					-													
108		3' - 0"	6' - 10 7/8"		GLASS		ALUM					-													
109		3' - 0"	6' - 10 7/8"		GLASS		ALUM					-													
110		3' - 0"	6' - 10 7/8"		GLASS		ALUM					-													
111		3' - 0"	7' - 0"		WOOD		WOOD					-													
112		3' - 0"	7' - 0"		WOOD		WOOD					-													
113		3' - 0"	7' - 9 7/8"		GLASS		ALUM					-													
114A		3' - 0"	7' - 7 5/8"		GLASS		ALUM					-													
114B		3' - 0"	7' - 7 5/8"		GLASS		ALUM					-													
115		3' - 0"	7' - 0"		WOOD		WOOD					-													
116		3' - 0"	7' - 0"		WOOD		WOOD					-													
117		3' - 0"	7' - 11 7/8"		GLASS		ALUM					-													
118		3' - 0"	7' - 0"		WOOD		WOOD					-													
119C		3' - 0"	7' - 11"		GLASS		ALUM					-													
120		3' - 0"	7' - 10 7/8"		GLASS		ALUM					-													
121		3' - 0"	7' - 0"		WOOD		WOOD					-													
123		3' - 0"	7' - 0"		WOOD		WOOD					-													
124		3' - 0"	7' - 0"		WOOD		WOOD					-													
125		3' - 0"	7' - 0"		WOOD		WOOD					-													
126		3' - 0"	7' - 0"		WOOD		WOOD					-													
V101A		6' - 0"	7' - 8 1/2"		GLASS		ALUMINUM					-													
V101B		6' - 0"	7' - 10 7/8"		GLASS		ALUM					-													
V101C		3' - 0"	7' - 10 3/4"		GLASS		ALUMINUM					-													
V102A		6' - 0"	7' - 11"		GLASS		ALUM					-													
V102B		6' - 0"	7' - 11"		GLASS		ALUM					-													

REMARKS:

1 - COILING SECURITY GRILLE
2 - THIS DOOR IS AN ALTERNATE. SEE PLAN FOR ALTERNATE NUMBER.
3 - EXISTING FLOORING MATERIAL TO BE PATCHED, VERIFY IN FIELD FOR THE TRESHOLD CONDITION
4 - DOOR HAS A CARD READER
5 - CONTACTS
6 - SOUND SEAL
7 - VERIFY EXISTING MASONRY OPENING DIMENSIONS
8 - DOOR SIZE AND FRAME DETAILS ARE TO BE V.I.F
9 - FOLDING PARTITION POCKET DOOR , SEE 7//A4.34 FOR DETAILS.
10 - KNURLED HANDLE
11 - NO LOCKING HARDWARE
12 - EXIT ONLY
13- 1" DOOR UNDERCUT

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

DOOR SCHEDULE

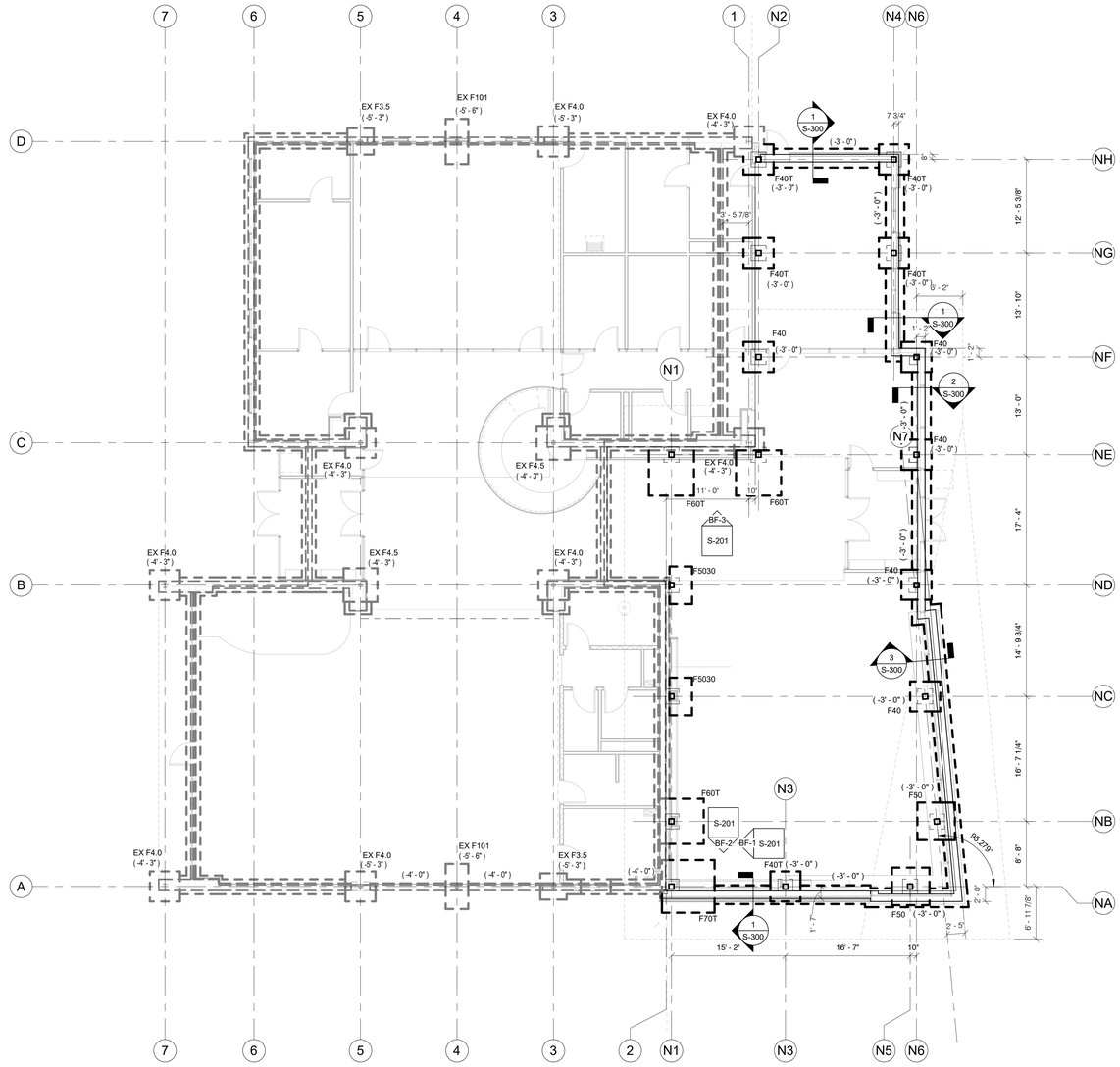
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A11.01

10/7/2022 6:45:24 PM BIM 360://Bloomfield Library - McMahon Building/221003 - McMahon Library-Arch-BIM360-2021.rvt



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	
F60T	6' - 0"	6' - 0"	1' - 6"	8	#5	
F70T	7' - 0"	7' - 0"	1' - 9"			REINF. TOP AND BOTTOM
F5030	5' - 0"	3' - 0"				REINF. TOP AND BOTTOM, REFER TO SECTION

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

FOUNDATION PLAN

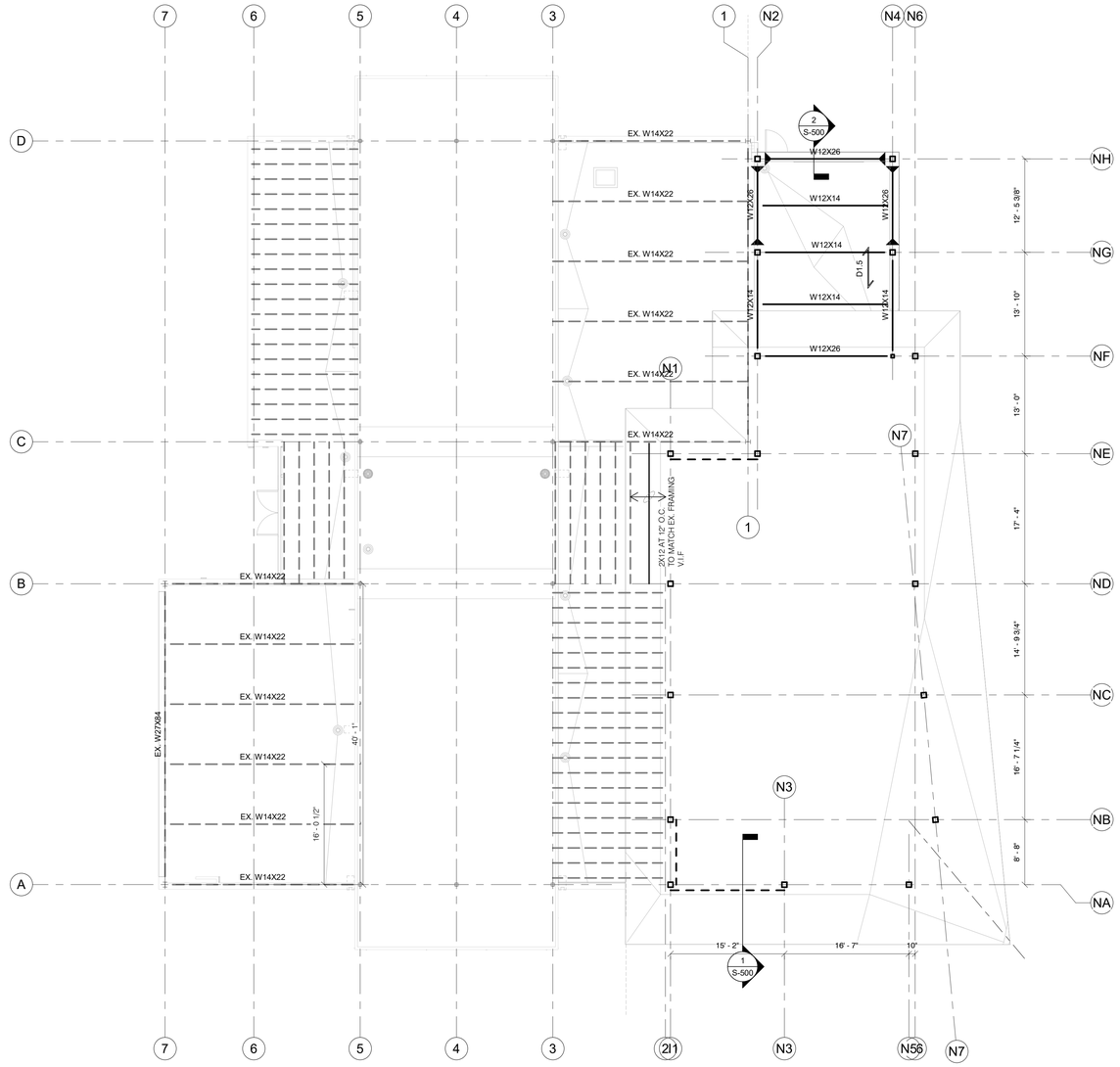
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S-101

10/7/2022 3:34:05 PM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



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

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

LOW ROOF FRAMING PLAN

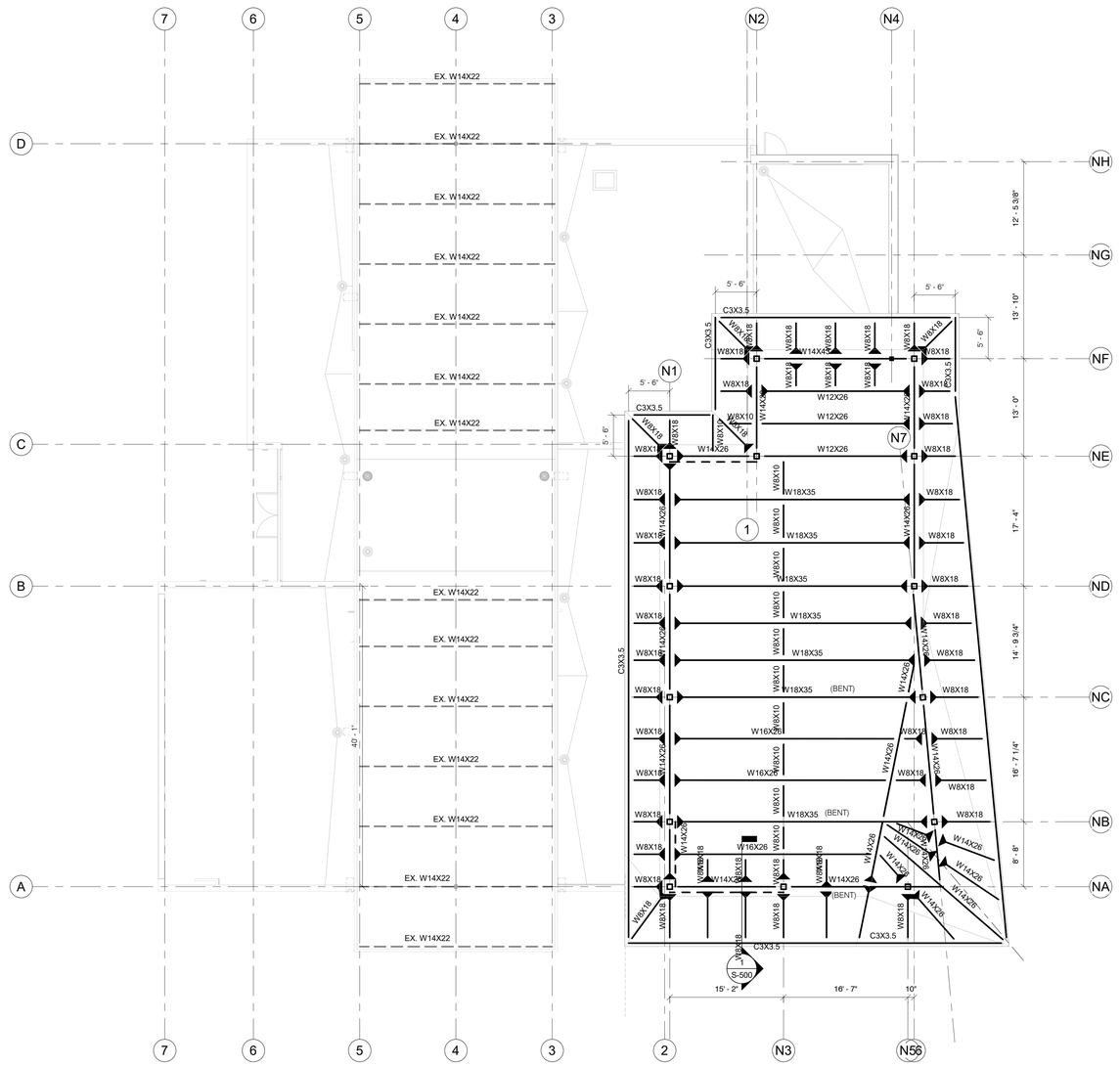
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S-102

10/7/2022 3:34:07 PM BIM 360://Bloomfield Library - McMahon Building/21-241B Wintonbury Library Site STRUCT.rvt



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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BLOOMFIELD, CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

ROOF FRAMING PLAN

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/2022
DRAWN BY	Author
APPROVED BY	Approver

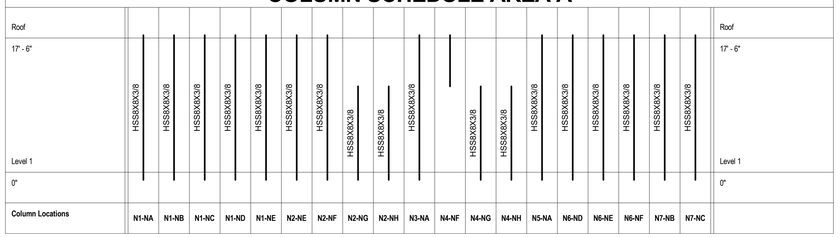
ISSUE DATES

NO.	DATE	PURPOSE

S-103

10/7/2022 3:34:10 PM BIM 360://Bloomfield Library - McMahon Building/21-241B Wintonbury Library Site STRUCT.rvt

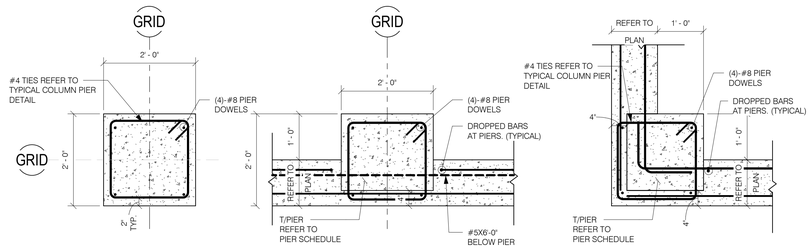
COLUMN SCHEDULE AREA A



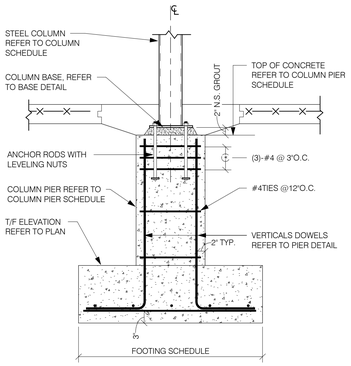
COLUMN PIER SCHEDULE AREA A

GRID	T/CONC	BASE PLATE	PIER
N1-NA	-1' - 0"	BP-1	P1
N1-NB	-1' - 0"	BP-1	P1
N1-NC	-1' - 0"	BP-1	P1
N1-ND	-1' - 0"	BP-1	P1
N1-NE	-1' - 0"	BP-1	P1
N2-NE	-1' - 0"	BP-1	P1
N2-NF	-1' - 0"	BP-1	P1
N2-NG	-1' - 0"	BP-1	P1
N2-NH	-1' - 0"	BP-1	P1
N3-NA	-1' - 0"	BP-1	P1
N4-NG	-1' - 0"	BP-1	P1
N4-NH	-1' - 0"	BP-1	P1
N5-NA	-1' - 0"	BP-1	P1
N6-ND	-1' - 0"	BP-1	P1
N6-NE	-1' - 0"	BP-1	P1
N6-NF	-1' - 0"	BP-1	P1
N7-NB	-1' - 0"	BP-1	P1
N7-NC	-1' - 0"	BP-1	P1

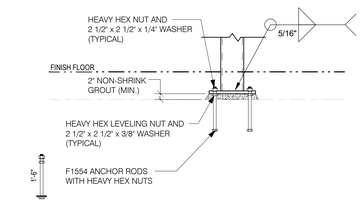
NOTE:
1. IF NO PIER DETAIL DESIGNATION IS GIVEN. COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM.
2. REFER TO DRAWING S200 FOR BASE PLATE DETAILS
3. TOP OF CONCRETE IS GIVEN FROM MAIN LEVEL FINISHED FLOOR ELEVATION (0'-0")



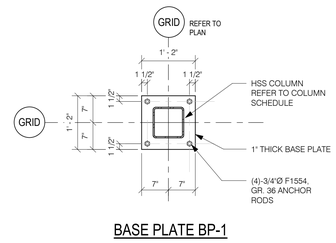
P1 PIER DETAIL
3/4" = 1'-0"



1 TYPICAL COLUMN PIER DETAIL
3/4" = 1'-0"



3 TYPICAL COLUMN BASE PLATE DETAIL
3/4" = 1'-0"



BASE PLATE BP-1

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

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

COLUMN SCHEDULE AND DETAILS

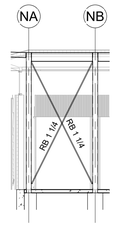
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

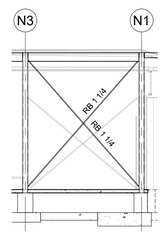
NO.	DATE	PURPOSE

S-200

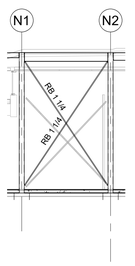
10/7/2022 3:34:13 PM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



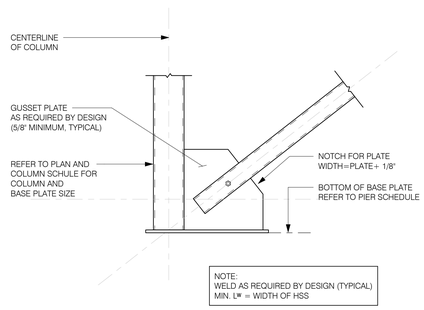
BF-1 BRACE FRAME ELEVATION
1/8" = 1'-0"



BF-2 BRACE FRAME ELEVATION
1/8" = 1'-0"

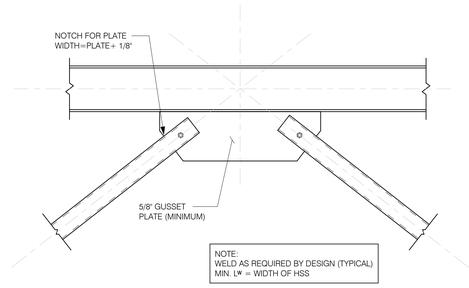


BF-3 BRACE FRAME ELEVATION
1/8" = 1'-0"



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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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

BUILDING ELEVATIONS EXTERIOR

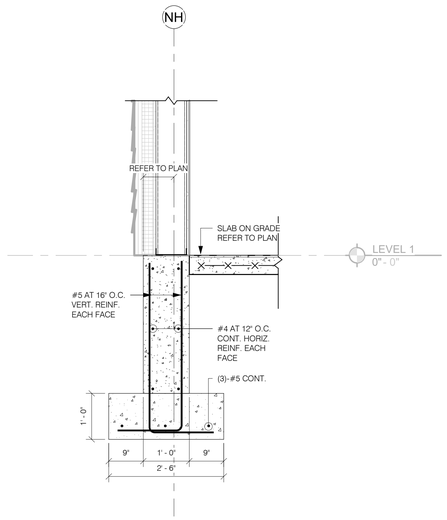
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

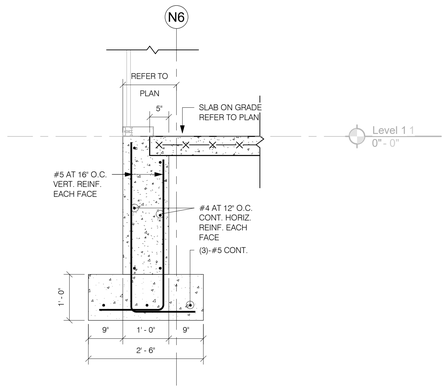
NO.	DATE	PURPOSE

S-201

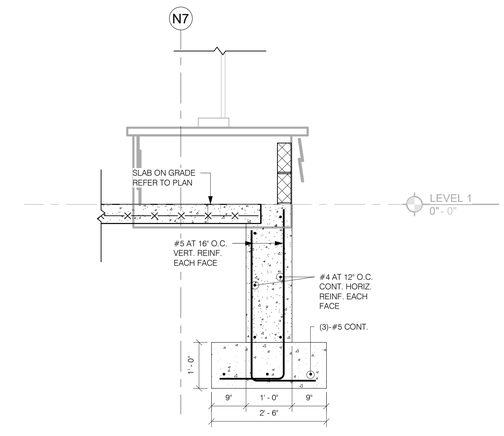
10/7/2022 3:34:14 PM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

FOUNDATION SECTIONS

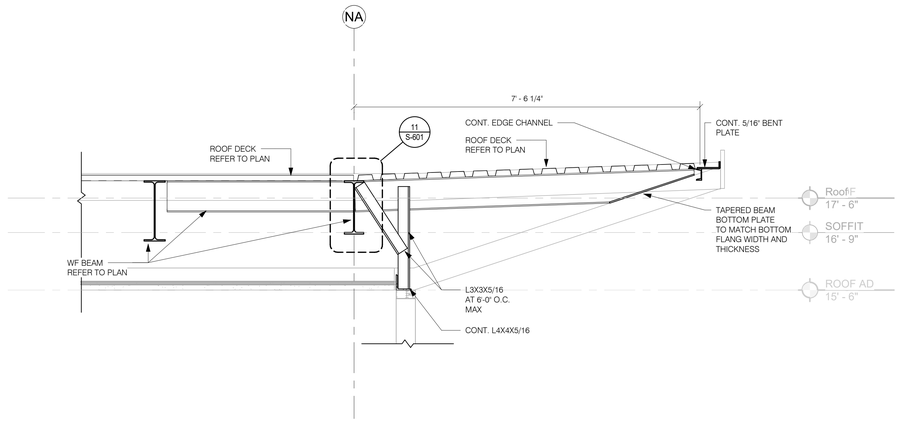
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

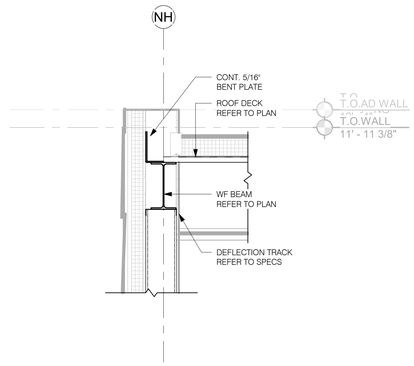
NO.	DATE	PURPOSE

S-300

10/7/2022 3:34:15 PM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



1 SECTION
3/4" = 1'-0"



2 Section 31
3/4" = 1'-0"

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
ROOF SECTIONS

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	AC
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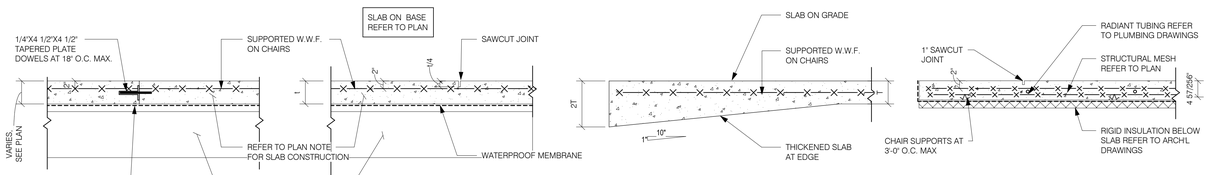
ISSUE DATES

NO.	DATE	PURPOSE

S-500

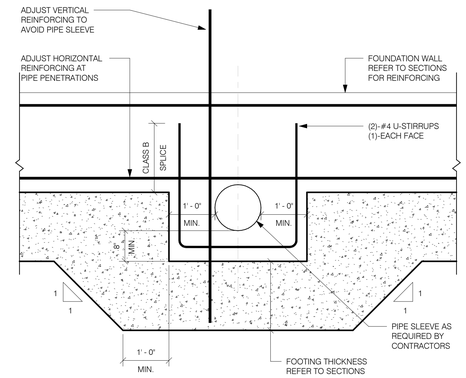
10/7/2022 3:34:17 PM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



CONSTRUCTION JOINT | SAWCUT SLAB JOINT | TYPICAL THICKENED EDGE | TYPICAL SLAB AT RADIANT HEAT

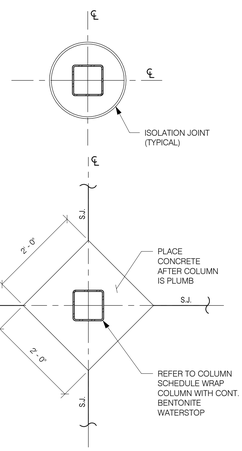
NOTE:
CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE PROPOSED LOCATION OF CONTROL AND CONSTRUCTION JOINTS PRIOR TO PLACING CONCRETE FOR SLAB.
REFER TO GENERAL NOTES FOR SUBGRADE PREPERATION. REMOVE ALL FILL MATERIALS BELOW SLAB ON GRADE

1 TYPICAL SLAB ON GRADE DETAIL -RADIANT
3/4" = 1'-0"

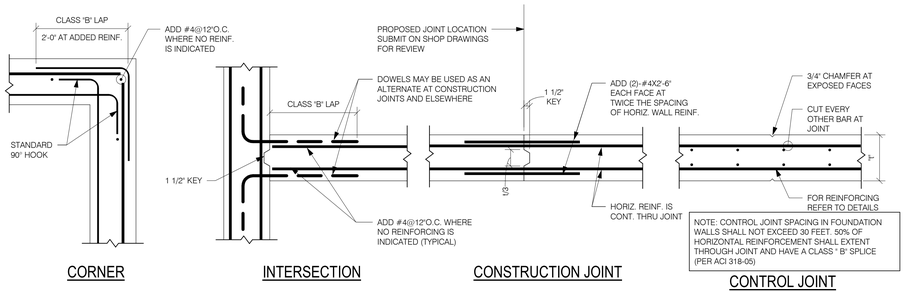


NOTE: DO NOT PLACE PENETRATIONS THROUGH COLUMNS PIERS OR FOOTINGS.
REFER TO PLAN FOR LOCATIONS AND COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS.

2 TYPICAL DETAIL OF PIPE PENETRATIONS THRU FOUNDATION WALLS
3/4" = 1'-0"

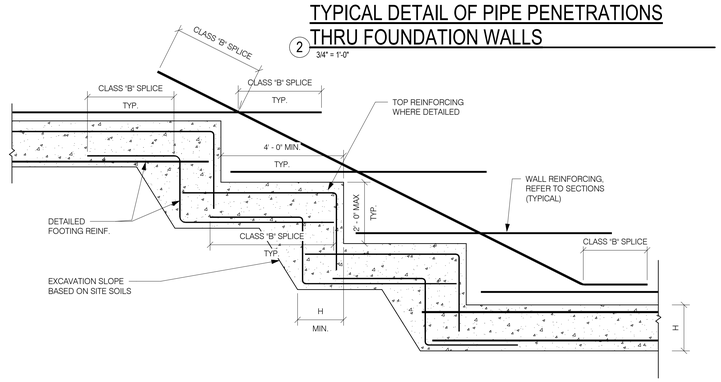


3 TYPICAL SLAB CONSTRUCTION JOINTS AT COLUMNS
3/4" = 1'-0"

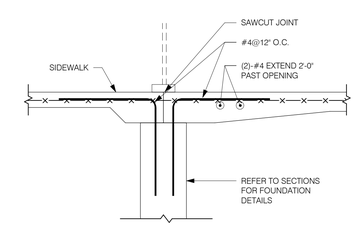


CORNER | INTERSECTION | CONSTRUCTION JOINT | CONTROL JOINT
NOTED 'CJ' ON PLAN

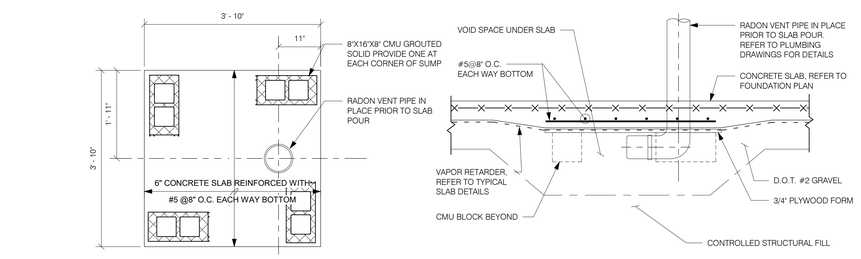
4 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"



5 TYPICAL STEPPED FOOTING DETAIL
1/2" = 1'-0"

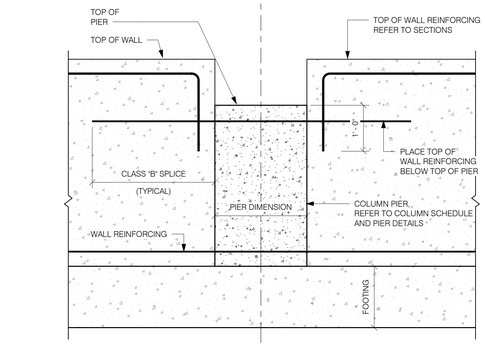


6 TYPICAL FOUNDATION AT DOORS
3/4" = 1'-0"



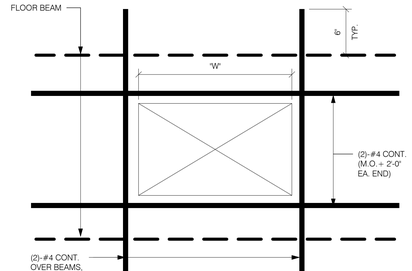
RADON SUMP LOCATIONS NOTED ON FOUNDATION PLAN WITH SYMBOL SHOWN AT LEFT.

7 TYPICAL SLAB ON GRADE RADON SUMP DETAIL
3/4" = 1'-0"



NOTE: REFER TO SECTIONS FOR REINFORCING.

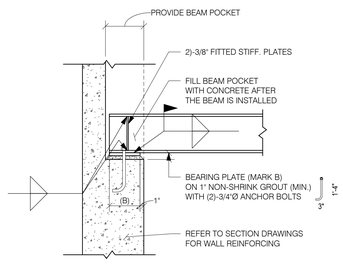
8 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"



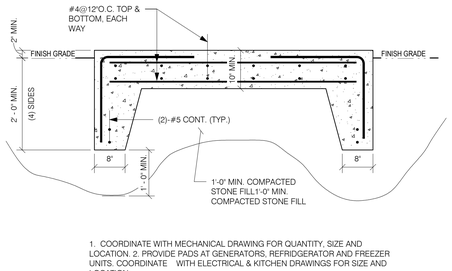
NOTES:
1. FOR OPENINGS WITH 'W' GREATER THAN 4'-0" SUBMIT LOCATION FOR REVIEW.
2. FOR STEEL FRAME, REFER TO TYPICAL FLOOR OPENING DETAIL
3. COORDINATE QUANTITY AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

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"

9 TYPICAL SLAB OPENING DETAIL
1 1/2" = 1'-0"

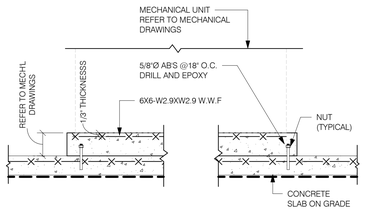


10 TYPICAL BEAM BEARING PLATE DETAIL
3/4" = 1'-0"



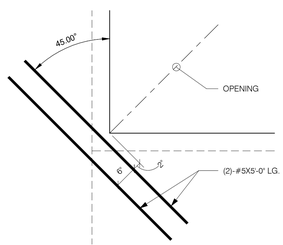
1. COORDINATE WITH MECHANICAL DRAWING FOR QUANTITY, SIZE AND LOCATION. 2. PROVIDE PADS AT GENERATORS, REFRIDGERATOR AND FREEZER UNITS. COORDINATE WITH ELECTRICAL & KITCHEN DRAWINGS FOR SIZE AND LOCATION.

11 TYPICAL CONCRETE EQUIPMENT PAD ON GRADE
3/4" = 1'-0"

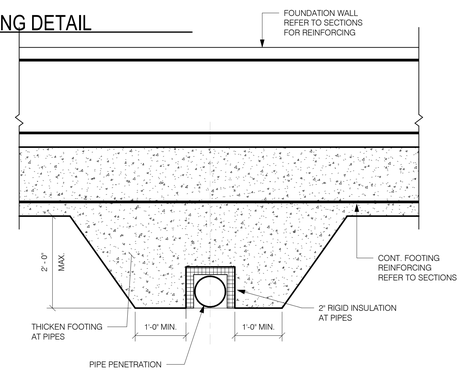


1. COORDINATE WITH MECHANICAL DRAWING FOR QUANTITY, SIZE AND LOCATION

12 TYPICAL NEW CONCRETE PAD ON CONCRETE SLAB ON GRADE
3/4" = 1'-0"



13 TYPICAL AT REENTRANT SLAB CORNERS
3/4" = 1'-0"



NOTE:
DO NOT LOCATE PENETRATIONS THROUGH COLUMN FOOTINGS.
COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS, FOR LOCATIONS AND ELEVATIONS

14 TYPICAL DETAIL OF PIPE PENETRATIONS BELOW WALL FOOTING
3/4" = 1'-0"

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

PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
TYPICAL DETAILS

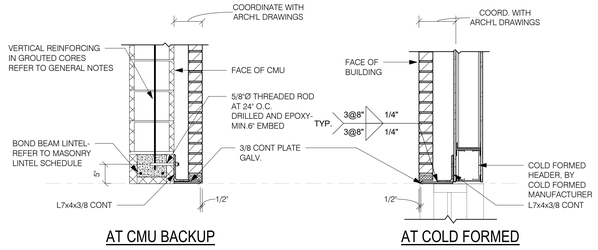
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

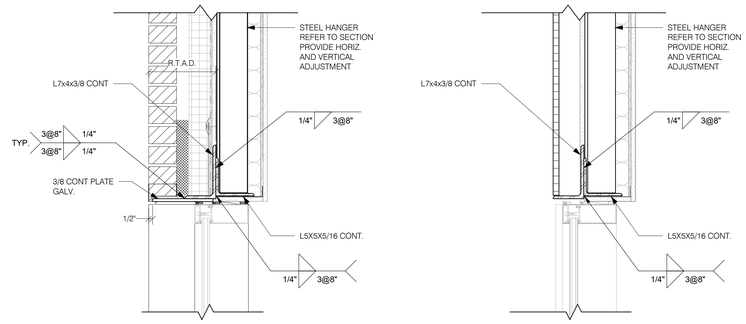
NO.	DATE	PURPOSE

S-600

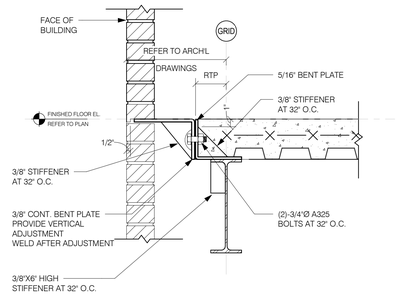
10/7/2022 3:34:18 PM BIM 360://Bloomfield Library - McMahon Building/21-24/IB Wintonbury Library Site STRUCT.rvt



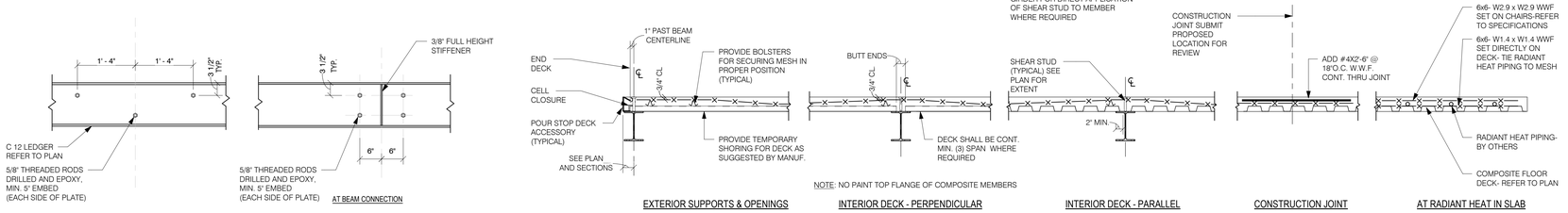
1 TYPICAL EXTERIOR LOOSE LINTEL.
3/4" = 1'-0"



2 TYPICAL HUNG ANGLE DETAIL.
1 1/2" = 1'-0"



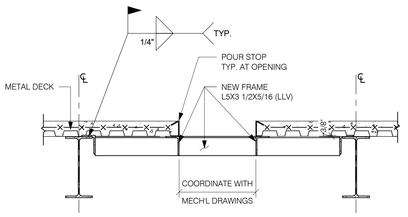
3 TYPICAL RELIEVING ANGLE.
1 1/2" = 1'-0"



NOTE: REFER TO PLAN NOTES FOR FLOOR CONSTRUCTION.

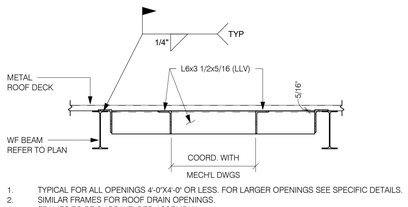
4 TYPICAL LEDGER BOLTING DETAIL
3/4" = 1'-0"

5 TYPICAL SUPPORTED SLAB DETAILS
3/4" = 1'-0"



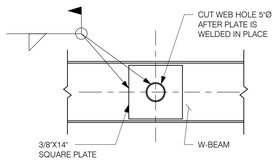
1. TYPICAL FOR ALL OPENINGS.
2. FRAMES TO BE SHOP WELDED ASSEMBLY.
3. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCH'L AND MECH'L. DRAWINGS.

6 TYPICAL FLOOR OPENING DETAIL
3/4" = 1'-0"

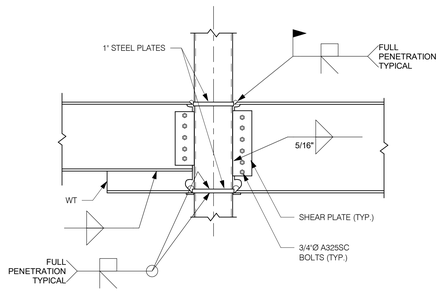


1. TYPICAL FOR ALL OPENINGS 4'-0"X4'-0" OR LESS. FOR LARGER OPENINGS SEE SPECIFIC DETAILS.
2. SIMILAR FRAMES FOR ROOF DRAIN OPENINGS.
3. FRAMES TO BE SHOP WELDED ASSEMBLY.
4. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCH'L. AND MECH'L. DRAWINGS.

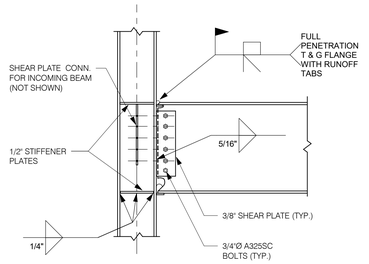
7 TYPICAL ROOF FRAME OPENING DETAIL (W BEAM)
3/4" = 1'-0"



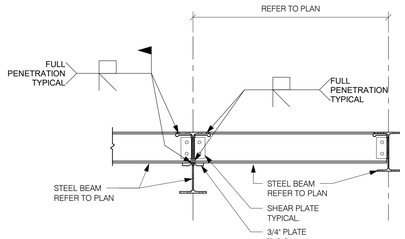
8 PIPE PENETRATION DETAIL
3/4" = 1'-0"



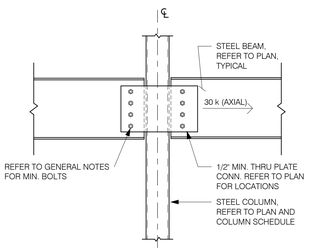
9 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"



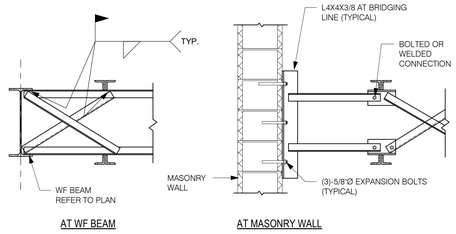
10 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"



11 TYPICAL WF OUTRIGGER DETAIL
3/4" = 1'-0"



12 TYPICAL THRU PLATE CONNECTION DETAIL
3/4" = 1'-0"



13 TYPICAL BRIDGING DETAIL
3/4" = 1'-0"

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BLOOMFIELD, CT 06002

PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
TYPICAL DETAILS

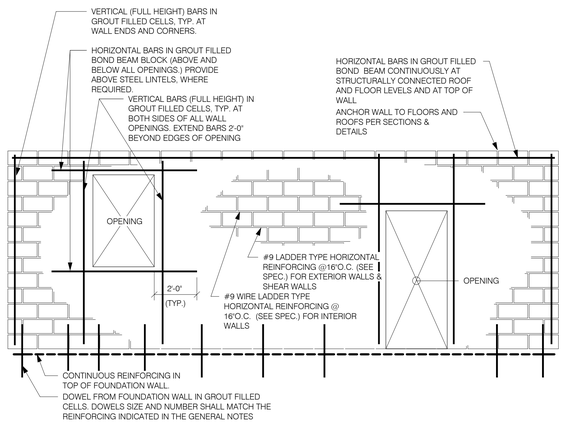
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

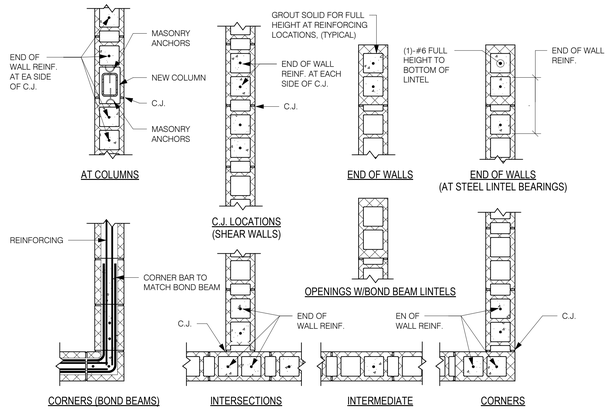
S-601

10/7/2022 3:34:21 PM BIM 360://Bloomfield Library - McMahon Building/21-2418 Wintonbury Library Site STRUCT.rvt



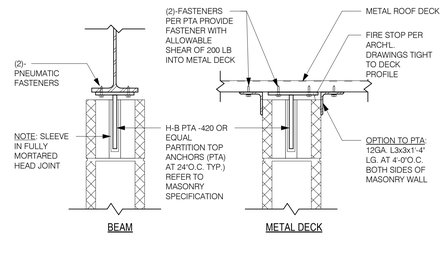
NOTE: REFER TO CONCRETE MASONRY GENERAL NOTES ON DRAWING FOR WALL REINFORCING REQUIREMENTS.

1 TYPICAL CMU WALL REINFORCEMENT DETAIL
3/4" = 1'-0"



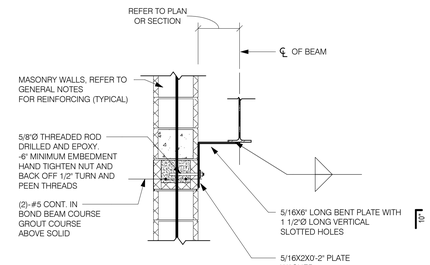
NOTES:
1. REINFORCING DETAILS APPLY TO ALL CMU WALLS. FOR ACTUAL REINFORCING REQUIREMENTS, REFER TO GENERAL NOTES ON DRAWINGS
2. PROVIDE DOWELS FROM CONCRETE FOUNDATIONS TO CMU WALL ABOVE. SIZE AND NUMBER TO MATCH WALL REINFORCING.

2 TYPICAL CMU REINFORCING PLAN DETAILS
3/4" = 1'-0"

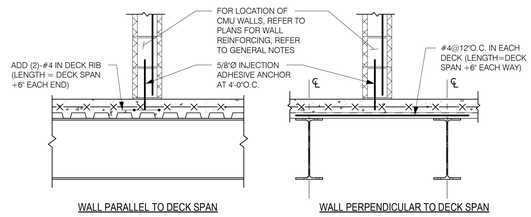


NOTE: APPLIES TO INTERIOR WALLS ONLY.

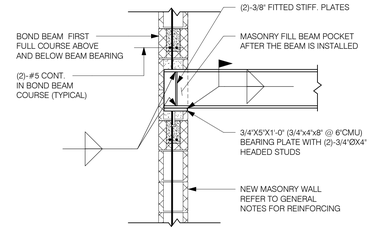
3 TYPICAL TOP OF WALL MASONRY ANCHORAGE TO STEEL
1 1/2" = 1'-0"



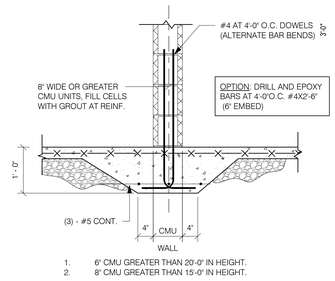
4 TYPICAL BEAM TO MASONRY CONNECTION
3/4" = 1'-0"



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"



1. 6" CMU GREATER THAN 20'-0" IN HEIGHT.
2. 8" CMU GREATER THAN 15'-0" IN HEIGHT.

7 TYPICAL THICKENED SLAB DETAIL
3/4" = 1'-0"

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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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 = 0.9
Is = 1.0
Ct= 1.0
Pf = 23.1 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 = 15 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:	-37.00 PSF
ROOF ZONE 2:	POSITIVE:	16.00 PSF
	NEGATIVE:	-37.00 PSF
ROOF ZONE 3:	POSITIVE:	16.00 PSF
	NEGATIVE:	-37.00 PSF
WALL ZONE 4:	POSITIVE:	16.00 PSF
	NEGATIVE:	-37.00 PSF
WALL ZONE 5:	POSITIVE:	16.00 PSF
	NEGATIVE:	-37.00 PSF
ROOF OVERHANG ZONE 2:		-56.00 PSF
ROOF OVERHANG ZONE 3:		-56.00 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 CONTRACTORS 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 CONTRACTORS 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 CHECKERS 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 (fc=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 PROVIDIED 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"X6"X12" MINIMUM W

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	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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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

MECHANICAL GENERAL INFORMATION

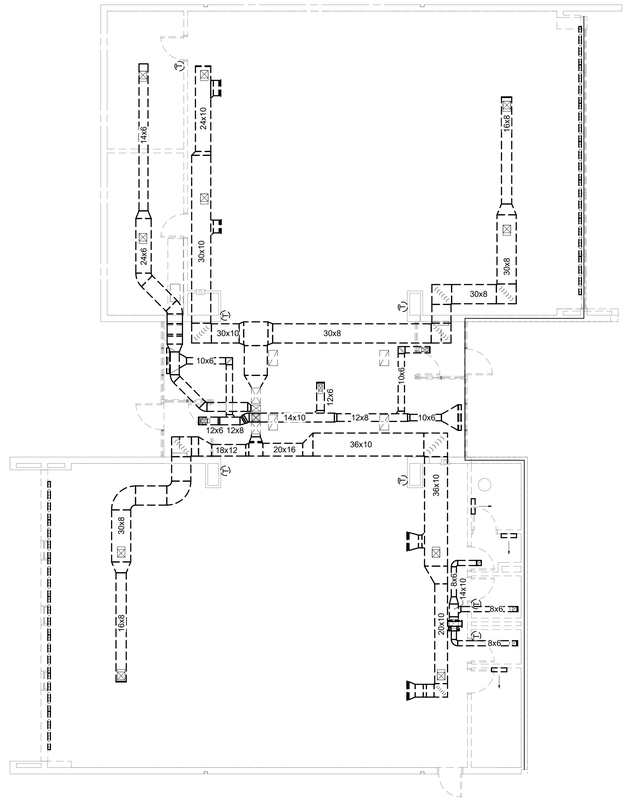
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As Indicated
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M0.01

10/7/2022 4:06:54 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt



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

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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	10/07/22
DRAWN BY	MJE
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ISSUE DATES

NO.	DATE	PURPOSE

MD1.01

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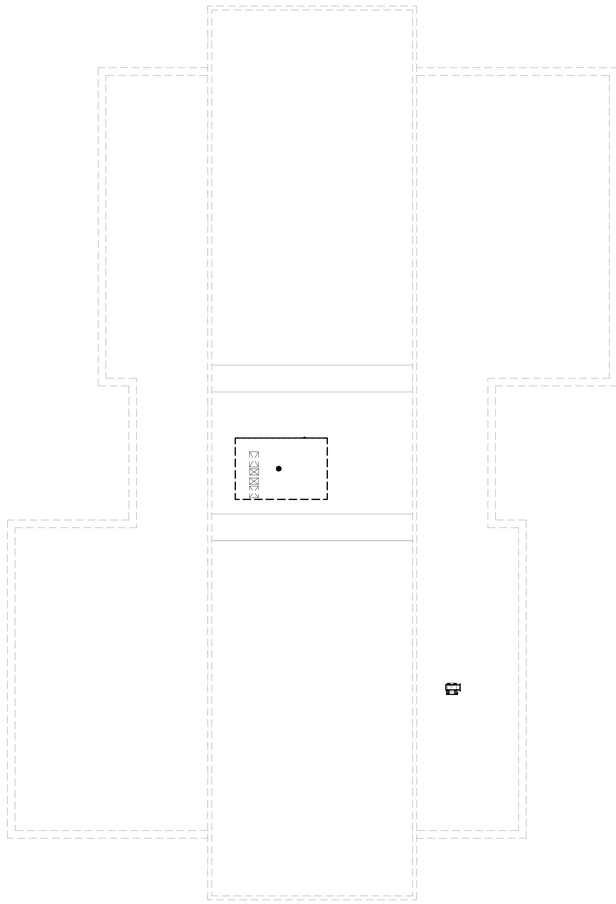

1 ROOF MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

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PROJECT

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KEY PLAN

DRAWING TITLE

ROOF MECHANICAL DEMOLITION PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MJE
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ISSUE DATES

NO.	DATE	PURPOSE

MD1.02

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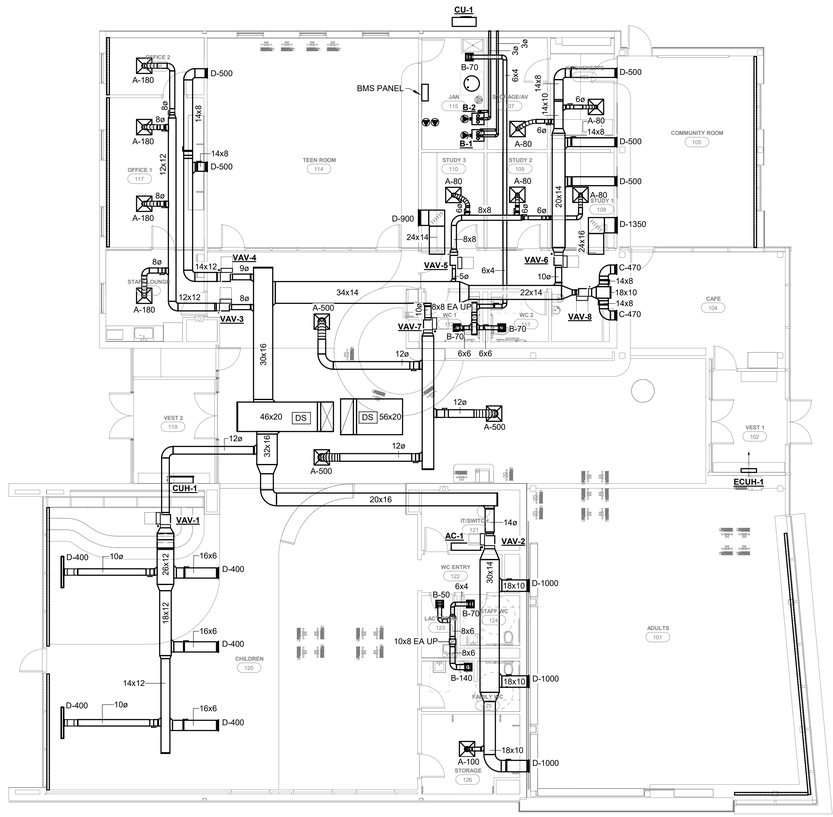

1 FIRST FLOOR MECHANICAL DUCT PLAN
1/8" = 1'-0"

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PROJECT

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KEY PLAN

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FIRST FLOOR
MECHANICAL DUCT PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M1.01

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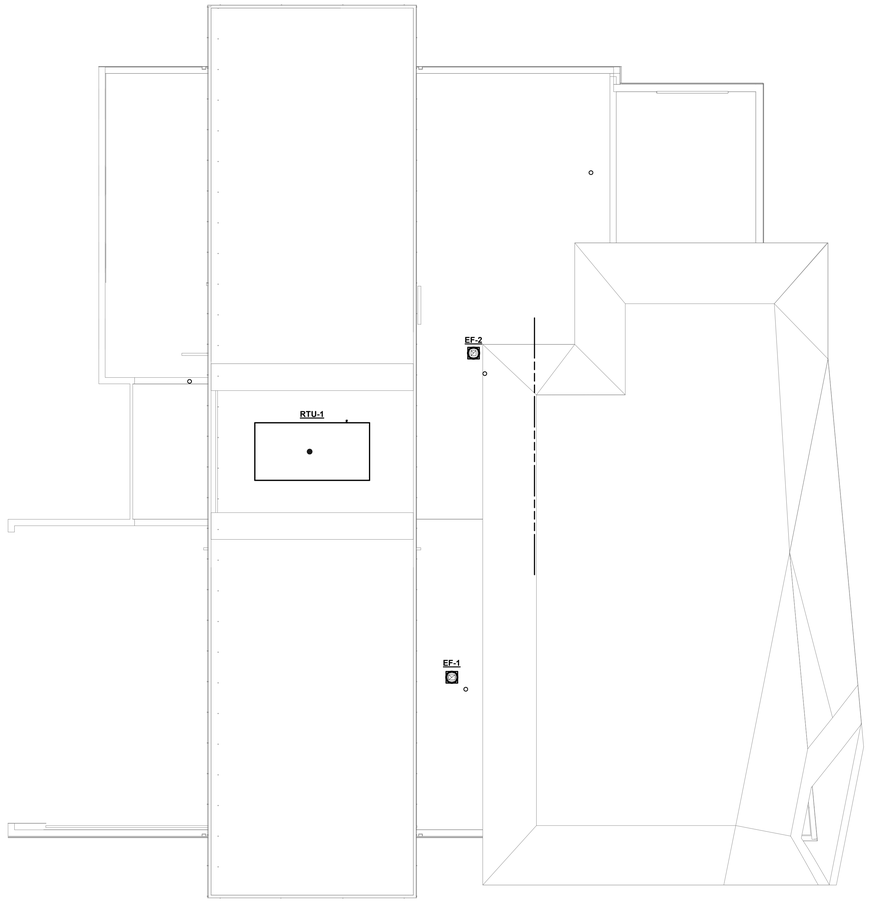

1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

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MECHANICAL ROOF PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
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ISSUE DATES

NO.	DATE	PURPOSE

M1.02

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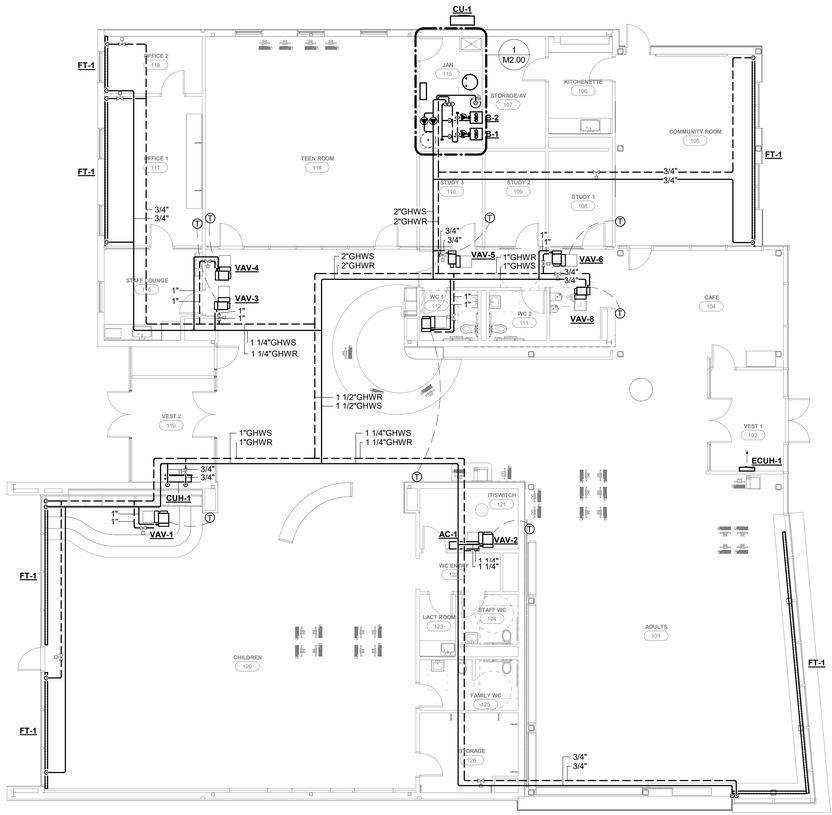

1 FIRST FLOOR MECHANICAL PIPE PLAN
1/8" = 1'-0"

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KEY PLAN

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FIRST FLOOR
MECHANICAL PIPE PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

MP1.01

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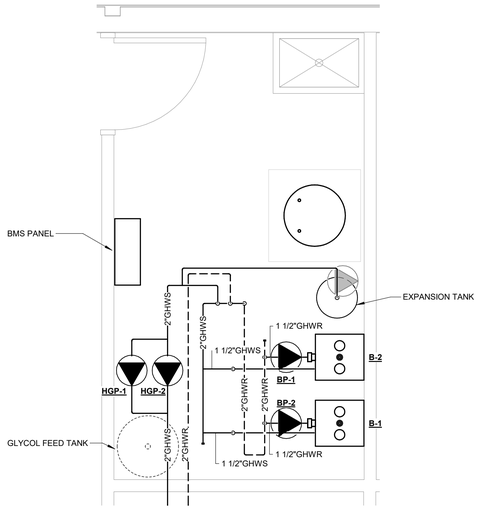
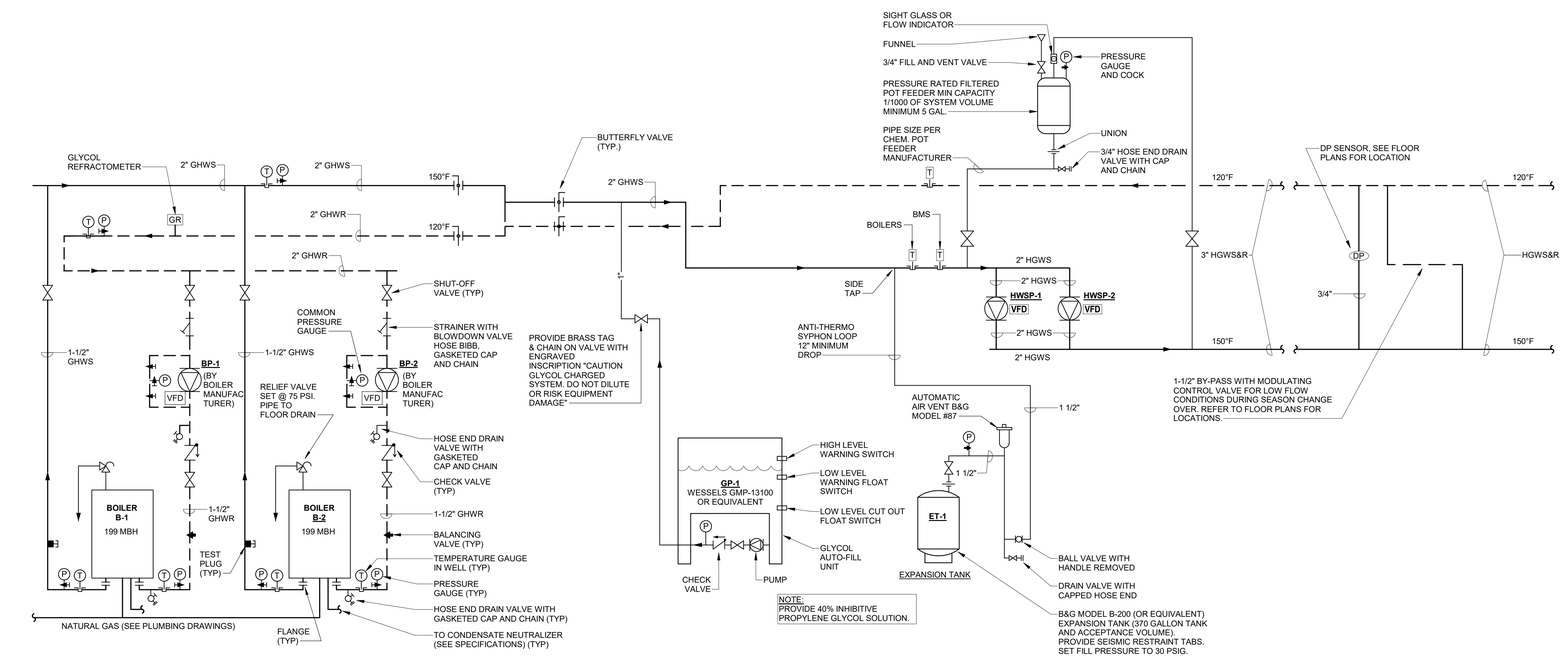


1 FIRST FLOOR MECHANICAL PIPE PLAN - PART PLAN
1/2" = 1'-0"



2 HOT WATER SYSTEM PIPING DIAGRAM
NTS

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KEY PLAN

DRAWING TITLE

MECHANICAL PART PLAN AND ONE LINE PIPING DIAGRAM

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	MJE
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ISSUE DATES

NO.	DATE	PURPOSE

M2.00

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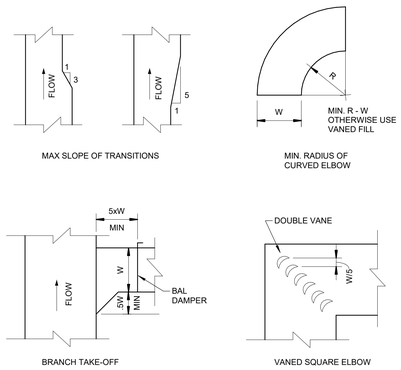
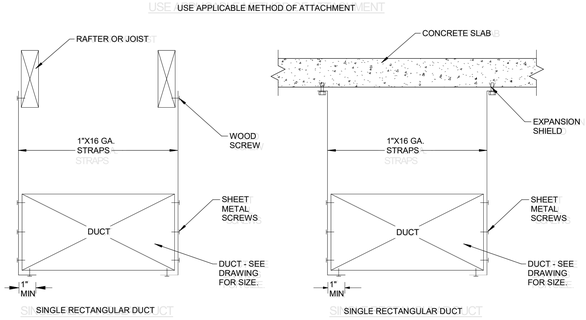
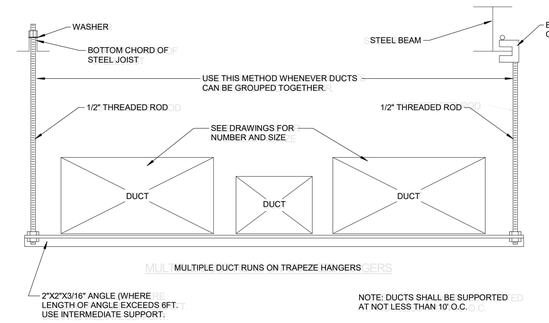


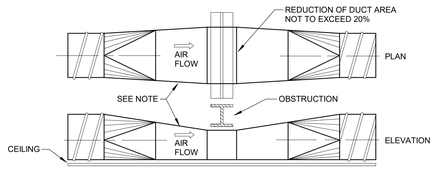
1 DUCT CONSTRUCTION DETAIL
NTS





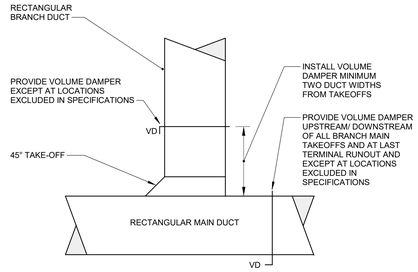
DUCT INSTALLATION DETAIL
N.T.S.

2 DUCT INSTALLATION DETAIL
NTS

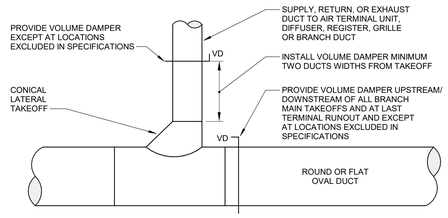


NOTES:
- 1:7 SLOPE FOR HIGH VELOCITY
- 1:4 SLOPE FOR LOW VELOCITY

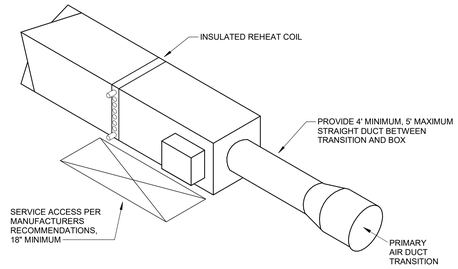
3 DUCT OBSTRUCTION TRANSFORMATION DETAILS
NTS



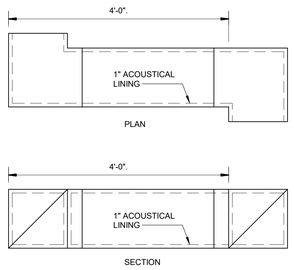
4 RECTANGULAR BRANCH TAKEOFF DETAIL
NTS



5 ROUND FLAT OVAL DUCT TAKEOFF DETAIL
NTS

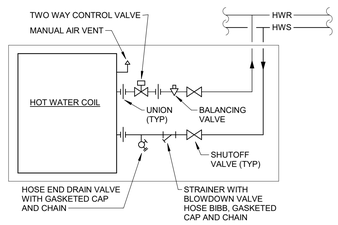


6 SHUTOFF VAV BOX
NTS

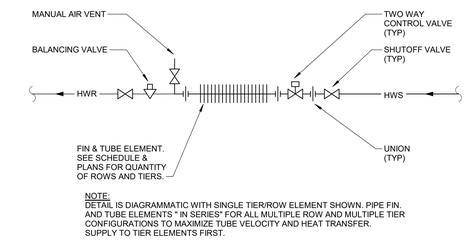


NOTE:
TRANSFER AIR DUCT OPENING SHALL BE EQUAL TO 1 SQ. FT. PER 500 CFM OF SYSTEM AIR. DUCT TO BE A MINIMUM OF 4'-0" LONG, WITH 1" OF ACOUSTICAL LINING. MINIMUM OPENING 1 SQ. FT.

7 TRANSFER AIR DUCT
NTS

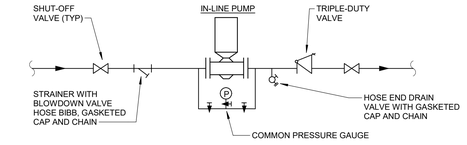


8 CABINET UNIT HEATER PIPING DETAIL
NTS



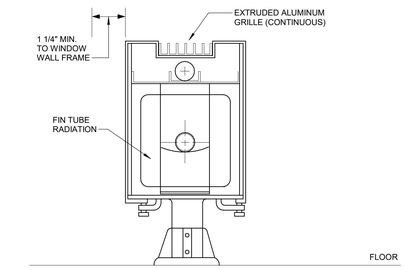
NOTE:
DETAIL IS DIAGRAMMATIC WITH SINGLE TIER/ROW ELEMENT SHOWN. PIPE FIN. AND TUBE ELEMENTS " IN SERIES" FOR ALL MULTIPLE ROW AND MULTIPLE TIER CONFIGURATIONS TO MAXIMIZE TUBE VELOCITY AND HEAT TRANSFER. SUPPLY TO TIER ELEMENTS FIRST.

9 HOT WATER RADIATION PIPING DETAIL
NTS



NOTE:
PROVIDE SUCTION DIFFUSER ON LARGE VERTICAL IN-LINE PUMPS.

10 IN-LINE PUMP DETAIL
NTS



11 PEDSTAL RADIATION DETAIL
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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
MECHANICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	NTS
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M3.00

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VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	PRIMARY AIRFLOW		HEATING COIL										REMARKS
						AIRSIDE					WATERSIDE				
			MAX (CFM)	MIN (CFM)	CAPACITY (Btu/h)	FLOW (CFM)	EAT(db) (°F)	LAT(db) (°F)	PD (in-wg)	ROWS	FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)	
VAV-1	TITUS	DESV-12	2000	600	86269.8	2000	55.0	95.0	0.00	1	5.80	150.0	120.0	0.00	
VAV-2	TITUS	DESV-14	3100	930	133718.2	3100	55.0	95.0	0.00	1	9.00	150.0	120.0	0.00	
VAV-3	TITUS	DESV-8	720	220	31057.1	720	55.0	95.0	0.00	1	2.10	150.0	120.0	0.00	
VAV-4	TITUS	DESV-9	1000	300	43134.9	1000	55.0	95.0	0.00	1	2.90	150.0	120.0	0.00	
VAV-5	TITUS	DESV-5	240	75	10352.4	240	55.0	95.0	0.00	1	0.70	150.0	120.0	0.00	
VAV-6	TITUS	DESV-10	1660	500	71604.0	1660	55.0	95.0	0.00	1	4.80	150.0	120.0	0.00	
VAV-7	TITUS	DESV-10	1500	450	64702.4	1500	55.0	95.0	0.00	1	4.40	150.0	120.0	0.00	
VAV-8	TITUS	DESV-8	1000	300	43134.9	1000	55.0	95.0	0.00	1	2.90	150.0	120.0	0.00	

GAS-FIRED BOILER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	GAS BURNER						WATERSIDE						ELECTRICAL DATA				REMARKS
							FUEL													
				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)	AFUE (%)	THERMAL EFF (%)	INLET DIAMETER	FLUE DIAMETER	FLA	VOLT	PH	
B-1	LOCHINVAR	WHB199N	WALL	199,999	185,000		NATURAL GAS	4	14	11	120	150	0	0	0	0	0"	3"	0 A	120 V	1	1
B-2	LOCHINVAR	WHB199N	WALL	199,999	185,000		NATURAL GAS	4	14	11	120	150	0	0	0	0	0"	3"	0 A	120 V	1	1

NOTES:
1. PROVIDE FACTORY SUPPLIED BOILER CIRCULATION PUMP

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	SEER	EER	IEER	COP	MCA	MOCP	VOLT	PH	
RTU-1	TRANE	TCD360CE0	VERTICAL	1800	0	10500	1.8	2.5	1	10	724	FC									0	0	0	0	0 A	0 A	208 V	3	

D/X COOLING COIL

TAG	COOLING COIL										HEATING				REFRIGERANT CONNECTION LINE SIZE	
	CAPACITY (Btu/h)		AIRSIDE													
	TOTAL	SENSIBLE	FLOW (CFM)	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)	FV (FPM)	PD (in-wg)	ROWS	CAPACITY (Btu/h)	FLOW (CFM)	EAT(db) (°F)	LAT(db) (°F)	LIQUID	VAPOR
RTU-1	0	0	10,500	0	0	0	0	0	0	0	0	10,500	0	0	0"	0"

FAN SCHEDULE

TAG	MANUFACTURER	MODEL	SERVES	TYPE	FAN						ELECTRICAL DATA			REMARKS
					FLOW (CFM)	ESP (in-wg)	RPM	DRIVE TYPE	MOTOR POWER HP	SONES	VOLT	PH		
EF-1	COOK	ACED-EC	TOILET ROOMS	DOWNBLAST	260	0.5	1454	DIRECT	0.2	5.4	115 V	1		
EF-2	COOK	ACED-EC	TOILET ROOMS	DOWNBLAST	210	0.5	1454	DIRECT	0.2	5.4	115 V	1		

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	PGB	COPPER	0	6"	0"	150	130	500	
FT-1	RITTLING	PGB	COPPER	0	6"	0"	150	130	500	
FT-1	RITTLING	PGB	COPPER	0	6"	0"	150	130	500	
FT-1	RITTLING	PGB	COPPER	0	6"	0"	150	130	500	
FT-1	RITTLING	PGB	COPPER	0	6"	0"	150	130	500	
FT-1	RITTLING	PGB	COPPER	0	6"	0"	150	130	500	
FT-1	RITTLING	PGB	COPPER	0	6"	0"	150	130	500	

GRILLES, DIFFUSERS AND REGISTERS SCHEDULE

(BASED ON PRICE)

SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION. SIZE AND CFM INDICATED ON MECHANICAL DRAWINGS

A - MODEL SMD 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 SMD DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), SURFACE MOUNT FRAME, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

B - MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH.

B1 - MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT BORDER, STEEL CONSTRUCTION, WHITE FINISH.

C - MODEL 520D 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.

E - MODEL LFG FLOOR GRILLE, 15° DEFLECTION , PENCIL AND HEEL PROOF BAR SPACING, EXTRUDED ALUMINUM CONSTRUCTION, CLEAR ANODIZED 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

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 WATTS	RPM	VOLT	PH		
BP-1	B&G	XL 20-35	INLINE	ECM	15	0	0.0		0	0	0	0	120 V	1		1
BP-2	B&G	XL 20-35	INLINE	ECM	15	0	0.0		0	0	0	0	120 V	1		1
HGP-1	B&G	XL 36-45	INLINE	ECM	35	0	0.0		0	0	0	0	120 V	1		
HGP-2	B&G	XL 36-45	INLINE	ECM	35	0	0.0		0	0	0	0	120 V	1		

NOTES:
1. PROVIDE FACTORY SUPPLIED BOILER CIRCULATOR PUMP

ELECTRIC CABINET UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING ELEMENTS			EQUIPMENT TYPE	FAN				SOUND PRESS LEVEL (dBA)	ELECTRICAL DATA			REMARKS
			QTY	POWER Btu/h	POWER kW		FLOW (CFM)	MOTOR QTY	MOTOR POWER (hp)	MOTOR RPM		FLA	VOLT	PH	
ECUH-1	QMARK	CWH3150F	1	5,115	1.5	WALL MOUNT	0	0	0	0	0	12.5 A	120 V	1	

CABINET UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	FAN				HEATING COIL						SOUND PRESS LEVEL (dBA)	ELECTRICAL DATA		REMARKS
				FLOW (CFM)	MOTOR QTY	MOTOR POWER (hp)	MOTOR RPM	CAPACITY (BTUH)	AIRSIDE EAT(db) (°F)	AIRSIDE LAT(db) (°F)	WATERSIDE FLOW (GPM)	WATERSIDE EWT (°F)	WATERSIDE LWT (°F)	PD (PSI)	VOLT	PH	
CUH-1	MODINE	CW00206	FLOOR MOUNT	150	1	0	0	48228	0.0	0.0	0.00	0.0	0.0	0	0	115 V	1	

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	

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	0	0	0 A	15 A	208 V	1	

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
MECHANICAL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	12" = 1'-0"
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M4.00

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ELECTRICAL SYMBOL LIST

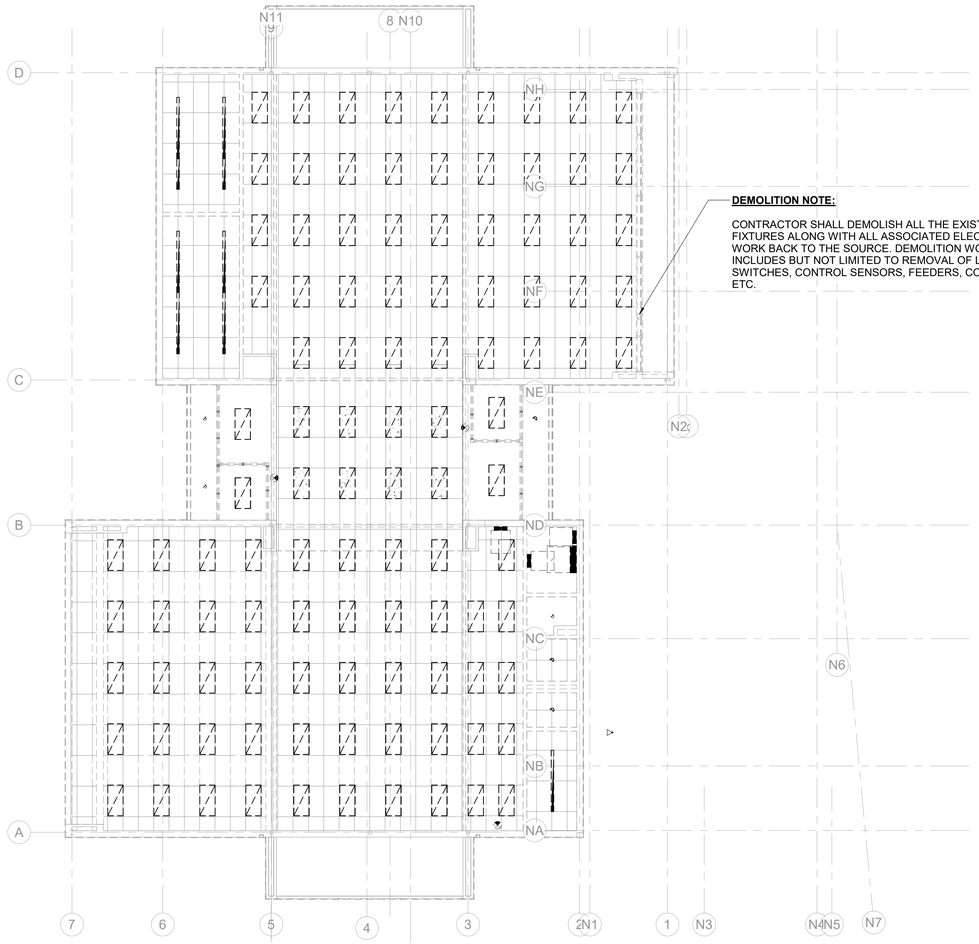
NOTE: ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.

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
S	SINGLE POLE TOGGLE SWITCH
S_3	THREE WAY TOGGLE SWITCH
S_4	FOUR WAY TOGGLE SWITCH
S_K	SINGLE POLE KEYED TOGGLE SWITCH
S_{3K}	THREE WAY KEYED TOGGLE SWITCH MOUNT
S_{4K}	FOUR WAY KEYED TOGGLE SWITCH MOUNT
S_T	THERMAL OVERLOAD SWITCH - MOUNT AT FRACTIONAL HP MOTORS
S_D	DIMMER SWITCH
S_{PS}	PROJECTION SCREEN SWITCH
S_{OC}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
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
S_D	DUCT SMOKE DETECTOR
S_{CO}	AREA COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR
S_E	ELEVATOR RETURN SMOKE DETECTOR
CO	FIRE ALARM CARBON MONOXIDE DETECTOR
M_{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
S_{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.
S_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
	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
	CEILING MOUNTED SPEAKER
IC	INTERCOM STATION
	COMBINATION SPEAKER/CLOCK
	CLOCK

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.



DEMOLITION NOTE:

CONTRACTOR SHALL DEMOLISH ALL THE EXISTING LIGHT FIXTURES ALONG WITH ALL ASSOCIATED ELECTRICAL WORK BACK TO THE SOURCE. DEMOLITION WORK INCLUDES BUT NOT LIMITED TO REMOVAL OF LIGHTS, SWITCHES, CONTROL SENSORS, FEEDERS, CONDUITS ETC.

1 LIGHTING PLAN-DEMOLITION
1/8" = 1'-0"

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

LIGHTING PLAN - DEMOLITION

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

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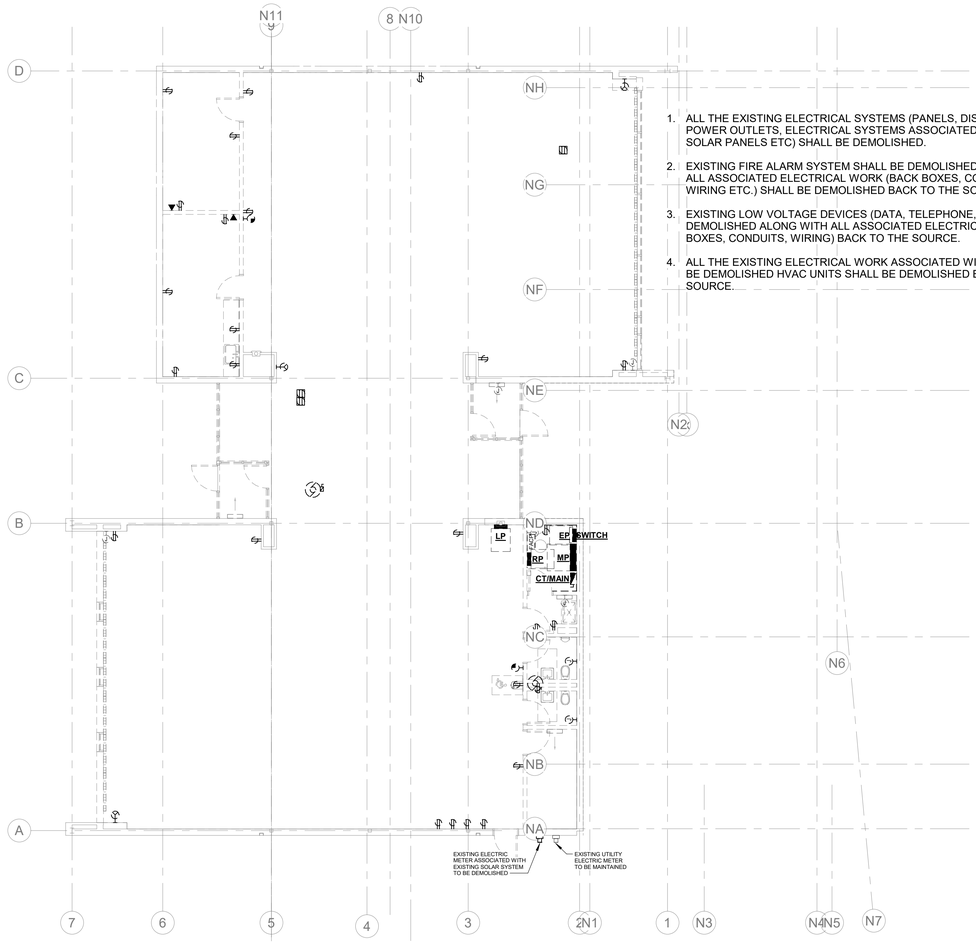
11. THE CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK.



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

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

POWER PLAN - DEMOLITION

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

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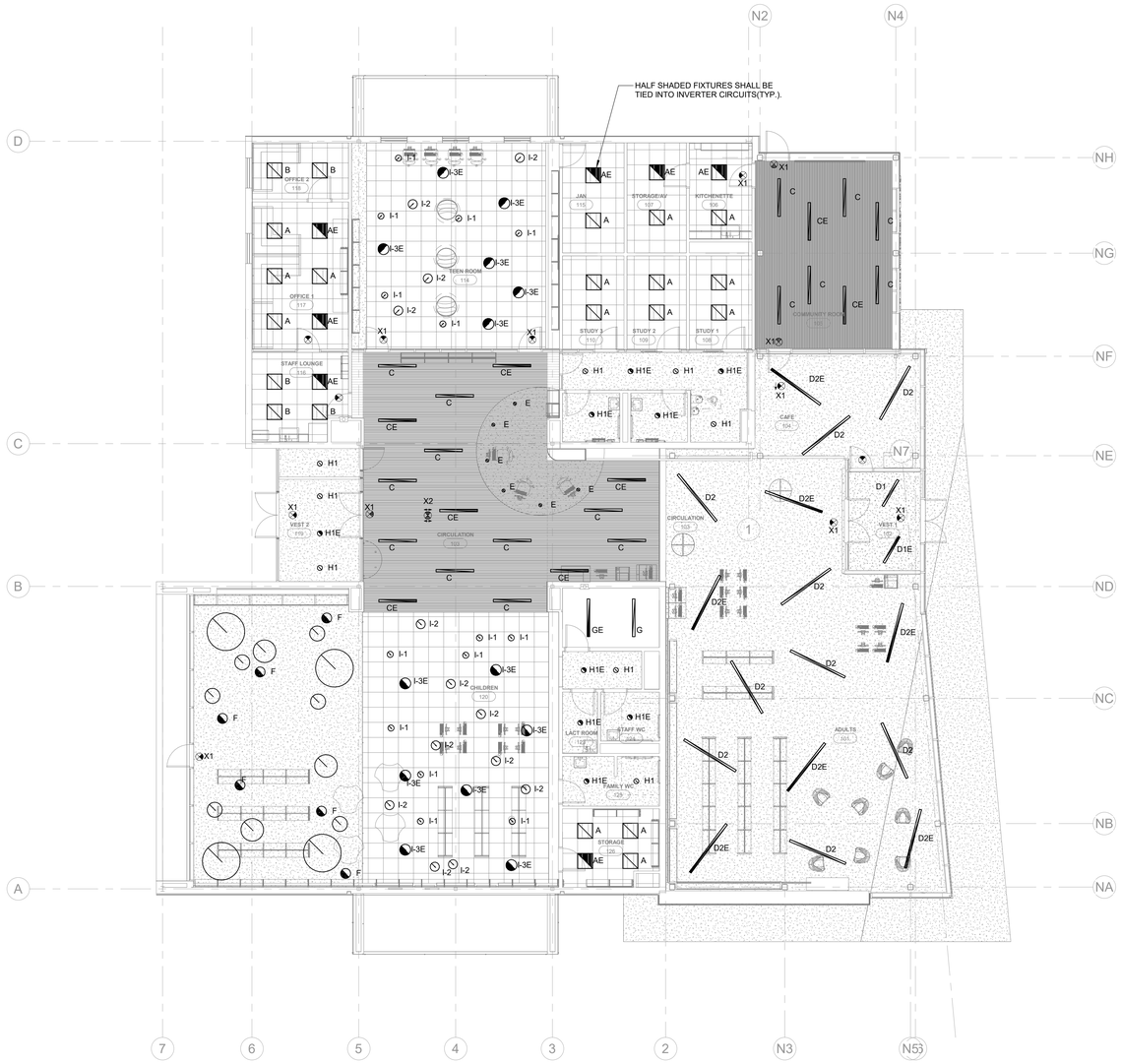

1 LIGHTING PLAN
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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
LIGHTING PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	SM
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ISSUE DATES

NO.	DATE	PURPOSE

E1.01

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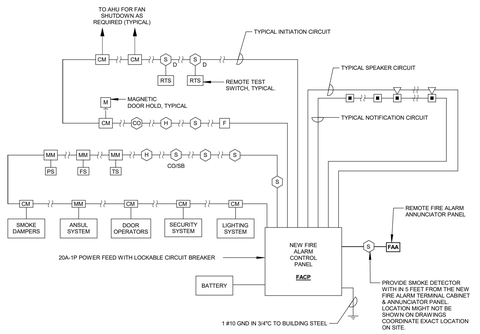

GENERAL FIRE ALARM SYSTEM NOTES:

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)
As indicated

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

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

POWER PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

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NO.	DATE	PURPOSE

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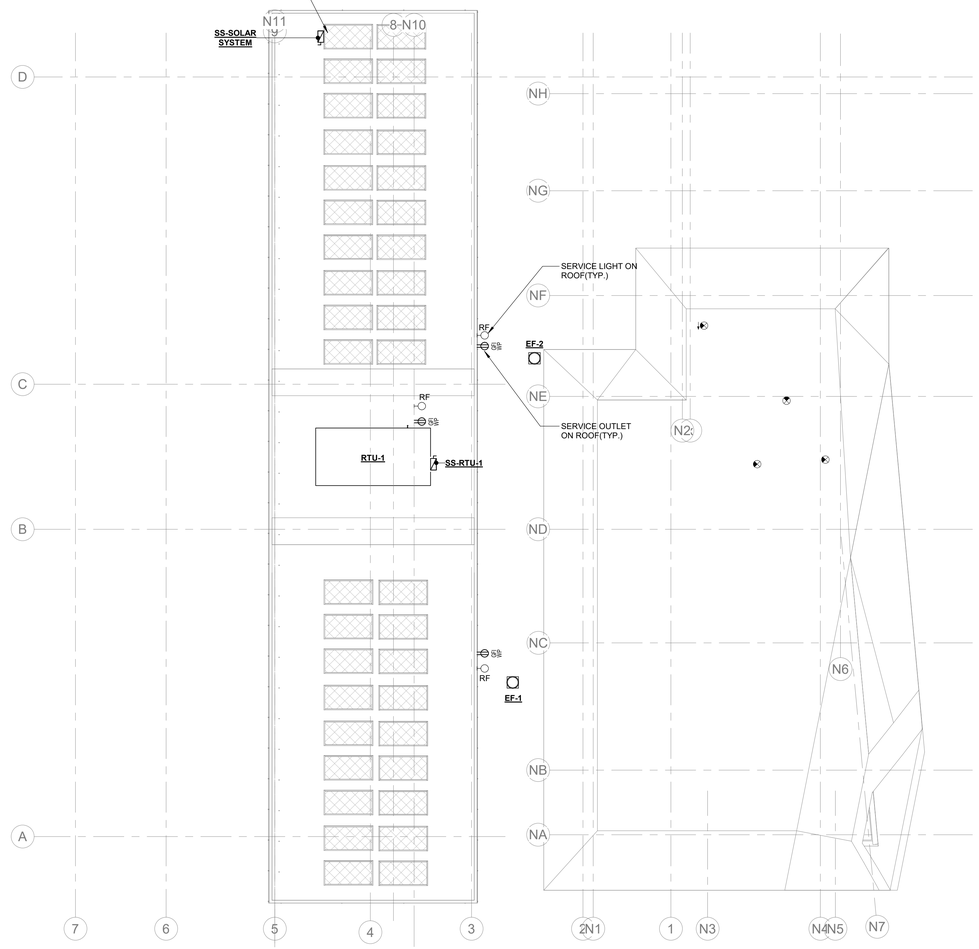
SOLAR SYSTEM NOTE:
THE SOLAR PANEL LAYOUT SHOWN ON ROOF IS FOR REFERENCE ONLY. SOLAR SYSTEM DESIGNER/CONSULTANT IS RESPONSIBLE TO LAYOUT THE PANELS TO MAXIMIZE THE POWER OUTPUT FROM SOLAR PANELS. REFER TO SPEC SECTION 263100 FOR SYSTEM PERFORMANCE.



1 ELECTRICAL ROOF PLAN
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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

ROOF POWER PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
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APPROVED BY	BJZ

ISSUE DATES

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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.

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

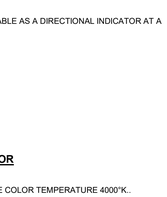
3. ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 4000°K..
4. PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. No. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.
5. IN ADDITION TO THE REQUIREMENTS OF 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

IT/SECURITY NOTES

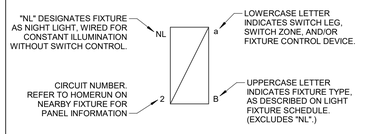
1. INDICATION HERE OF TEL/COM, SECURITY AND ACCESS CONTROL EQUIPMENT IS FOR COORDINATION PURPOSES ONLY. COORDINATE ACTUAL LOCATIONS, QUANTITIES AND ADDITIONAL REQUIREMENTS WITH RESPECTIVE VENDOR.
2. SECURITY CAMERAS AND WIRING PROVIDED BY OTHERS. PROVIDE BACKBOX WITH 1" CONDUIT TO ABOVE CEILING SPACE. 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.

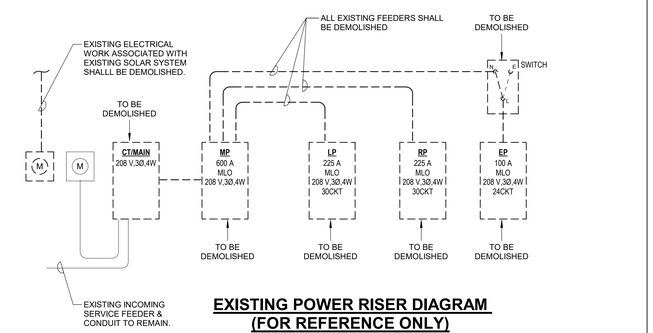


LIGHT FIXTURE LABELLING DETAIL



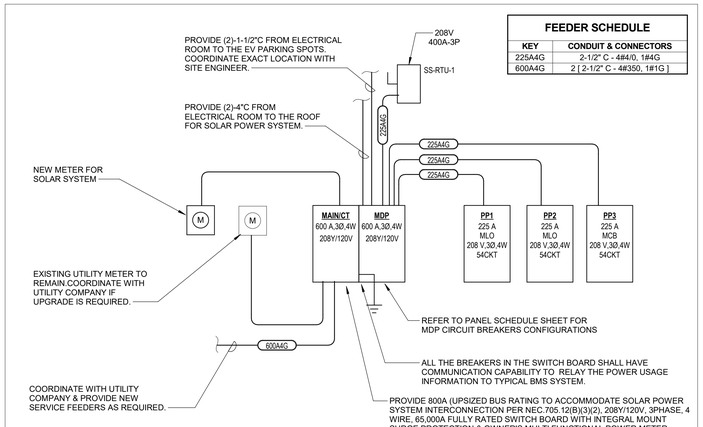
NOTES:

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.



EXISTING POWER RISER DIAGRAM (FOR REFERENCE ONLY)

N.T.S.



FEEDER SCHEDULE	
KEY	CONDUIT & CONNECTORS
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.

FLOOR BOX SCHEDULE

DESIGNATION	FLOOR BOX	FLOOR BOX DESCRIPTON	COVER	COVER DESCRIPTION	DEVICE PLATES
FB1	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"
FB2	RPNFB	ROUND NONMETALLIC DUAL SERVICE FLOOR BOX	RP4CTC	QUAD POWER WITH QUAD DATA SURFACE STYLE COVER	NONE
FB3	881	ROUND NONMETALLIC SINGLE SERVICE FLOOR BOX	895	895 STYLE DUPLEX COVER (OFFERED IN MANY COLORS AND MATERIALS)	NONE

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	MOCP	VOLT	PH	PANEL	NO.	APPARENT LOAD	LOAD CLASSIFICATION	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	REMARKS
AC-1	0 A	0 A	0 A	208 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
B-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
B-2	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
BMS PANEL	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS-M	MANUF.	MANUF.	
BP-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
BP-2	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
CU-1	0 A	0 A	15 A	208 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
CUH-1	0 A	0 A	0 A	115 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
DHWP-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
ECUH-1	12.5 A	15.6 A	0 A	120 V	1			1,500 VA	MTR							NFS	DIV. 26	DIV. 26	
EF-1	4.4 A	5.5 A	15 A	115 V	1			506 VA	MTR							NFS	DIV. 26	DIV. 26	
EF-2	4.4 A	5.5 A	15 A	115 V	1			506 VA	MTR							NFS	DIV. 26	DIV. 26	
HGP-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
HGP-2	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
HWH-1	16.7 A	20.9 A	0 A	208 V	3			6,000 VA	MTR							NFS	DIV. 26	DIV. 26	
RTU-1	0 A	0 A	0 A	208 V	3	MDP	4	0 VA	HVAC							FS	DIV. 26	DIV. 26	

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMPS			VOLTAGE	DIMMING TYPE	CCT	CRI	REMARKS
			LUMENS	WATTAGE	LUMENS/WATT					
			1380 lm	0 W		120 V	0-10V	3500K	80	
A	DAYBRITE	2FGXG380L835-2-RS-UNV-DIM	3800 lm	32 W	119 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER
AE	DAYBRITE	2FGXG380L835-2-RS-UNV-DIM	3800 lm	32 W	119 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER
B	DAYBRITE	2FGXG20L835-2-RS-UNV-DIM	2000 lm	15 W	133 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER
C	LEDALITE	3901L93522QSX-XX'-D-E-1-N-NN-W	2200 lm	22 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT. 2200LM/FT; 22WATTS/4FT.
CE	LEDALITE	3901L93522QSX-XX'-D-E-1-N-NN-W	2200 lm	22 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT. 2200LM/FT; 22WATTS/4FT.
D1	DAYOLITE	ADL-R04-DI-WRA-35-HO-8-PD-FINISH-DIM10	1950 lm	18 W	108 lm/W	120 V	0-10V	3500K	80	4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES.-4FT-1000LM/FTI INDIRECT, 950LM/FT-DIRECT;18WATTS/FT..
D1E	DAYOLITE	ADL-R04-DI-WRA-35-HO-8-PD-FINISH-DIM10	1950 lm	18 W	108 lm/W	120 V	0-10V	3500K	80	4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES.-4FT-1000LM/FTI INDIRECT, 950LM/FT-DIRECT;18WATTS/FT..
D2	DAYOLITE	ADL-R04-DI-WRA-35-HO-8-PD-FINISH-DIM10	1950 lm	18 W	108 lm/W	120 V	0-10V	3500K	80	4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES-8FT-1000LM/FTI INDIRECT, 950LM/FT-DIRECT; 18WATTS/FT..
D2E	DAYOLITE	ADL-R04-DI-WRA-35-HO-8-PD-FINISH-DIM10	1950 lm	18 W	108 lm/W	120 V	0-10V	3500K	80	4" ROUND LINEAR DIRECT/INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, WHITE RIBBED ACRYLIC LENSES-8FT-1000LM/FTI INDIRECT, 950LM/FT-DIRECT; 18WATTS/FT..
E			1000 lm	10 W	100 lm/W	120 V	0-10V	3500K	80	DECORATIVE PENDANT
F			2000 lm	20 W	100 lm/W	120 V	0-10V	3500K	80	DECORATIVE RECESSED LIGHT
G			4000 lm	20 W	200 lm/W	120 V	0-10V	3500K	80	UTILITY STRIP LIGHT
GE			4000 lm	20 W	200 lm/W	120 V	0-10V	3500K	80	UTILITY STRIP LIGHT
H1	LIGHTOLIER	4RN/P4RDL15835CCZ10 U	1500 lm	15 W	100 lm/W	120 V	0-10V	3500K	80	4" RECESSED DOWNLIGHT
H1E	LIGHTOLIER	4RN/P4RDL15835CCZ10 U	1500 lm	15 W	100 lm/W	120 V	0-10V	3500K	80	4" RECESSED DOWNLIGHT
I-1	SPECTRUM	GPRF1200GV-27L-35K-DS10X-RDC5-HM-AT-PM-FINISH	2333 lm	18 W	130 lm/W	120 V	0-10V	3500K	80	12" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED
I-2	SPECTRUM	GPRF1600GV-27L-35K-DS10X-RDC5-HM-AT-PM-FINISH	2333 lm	18 W	130 lm/W	120 V	0-10V	3500K	80	16" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED
I-3E	SPECTRUM	GPRF2000GV-27L-35K-DS10X-RDC5-HM-AT-PM-FINISH	2333 lm	18 W	130 lm/W	120 V	0-10V	3500K	80	20" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED
RF			1000 lm	10 W	100 lm/W	120 V	0-10V	3500K	80	UTILITY LIGHT ON ROOF
S-B	GARDCO	PBL-42-14L-200-WW-G2-3-UNV-FINISH	965 lm	11 W	88 lm/W	120 V	0-10V	3500K	70	42" HIGH FULL CUTOFF BOLLARD
S-E	SELUX	ACL-R3-S1-5G1800-30-XX-UNV/A-A40-250-14-FINISH-0B-BC	5346 lm	54 W	99 lm/W	120 V	0-10V	3500K	80	RECTALINEAR POLE MOUNTED FIXTURE MADE OF ALUMINUM, MOUNTED TO 14FT 4" SQUARE ALUMINUM POLE, TYPE 3 OPTIC
S-F	SELUX	ACL-R3-S1-5G1800-30-XX-UNV/A-A40-250-14-FINISH-0B-BC	10692 lm	108 W	99 lm/W	120 V	0-10V	3500K	80	TWIN MOUNT RECTALINEAR POLE MOUNTED FIXTURES MADE OF ALUMINUM, MOUNTED TO 14FT 4" SQUARE ALUMINUM POLE, 180 DEGREE, TYPE 4 OPTIC
X1			0 lm	5 W	0 lm/W	120 V	-	-	-	LED EXIT SIGN-SINGLE FACE
X2			0 lm	5 W	0 lm/W	120 V	-	-	-	LED EXIT SIGN-DOUBLE FACE.

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

ELECTRICAL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E3.01

SWITCHBOARD: MAIN/CT

LOCATION: | **VOLTAGE:** 120/208 Wye
MAIN DEVICE: 600 A | **AIC RATING:** 65,000
BUS AMPS: 800A | **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	225 A	3	0 VA	PP3	
2	225 A	3	0 VA	PP1	
3	225 A	3	0 VA	PP2	
4	225 A	3	0 VA	RTU-1	
5	60 A	2	0 VA	EV CHARGING STATION-1	
6	60 A	2	0 VA	EV CHARGING STATION-2	
7					
8	125 A	3	0 VA	SS-SOLAR SYSTEM INTERCONNETCION	AT THE FARTHEST END FROM MAIN BREAKER ON BUS

Branch Panel: PP1

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

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												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
				Total Load:	0.0 kVA	0.0 kVA	0.0 kVA					
				Total Amps:	0 A	0 A	0 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	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: PP2

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

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												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
				Total Load:	0.0 kVA	0.0 kVA	0.0 kVA					
				Total Amps:	0 A	0 A	0 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	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: PP3

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: MDP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB 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												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
				Total Load:	0.0 kVA	0.0 kVA	0.0 kVA					
				Total Amps:	0 A	0 A	0 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	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

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.

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
PANEL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E3.02

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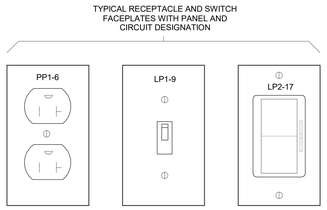
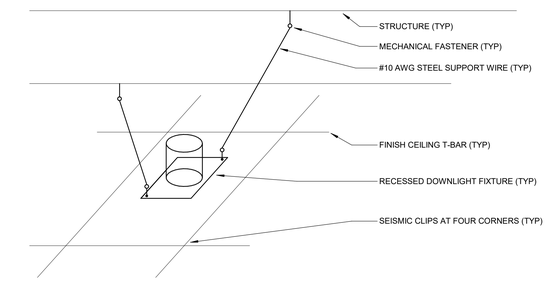


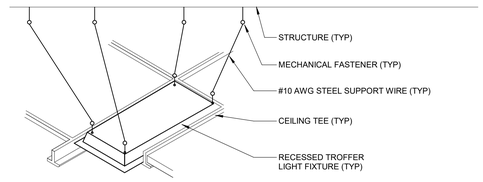
NOTES:

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.

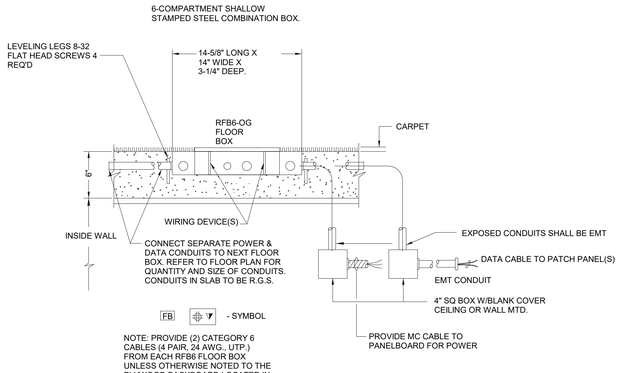
1 TYPICAL DEVICE FACEPLATE/BACK BOX LABELING DETAIL
NTS



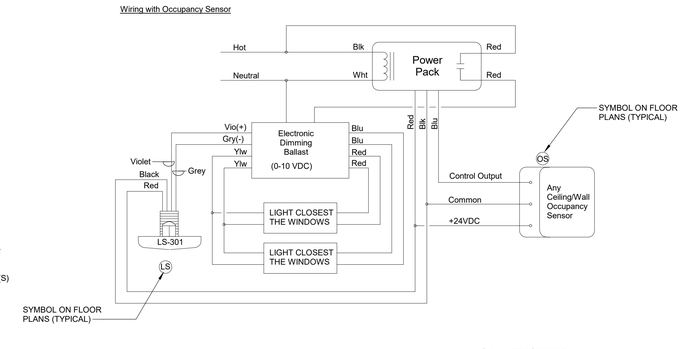
2 TYPICAL RECESSED DOWNLIGHT SUPPORT DETAIL
NTS



3 TYPICAL RECESSED TROFFER LIGHT SUPPORT DETAIL
NTS



4 IN-SLAB FLOOR BOX DETAIL
NTS



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

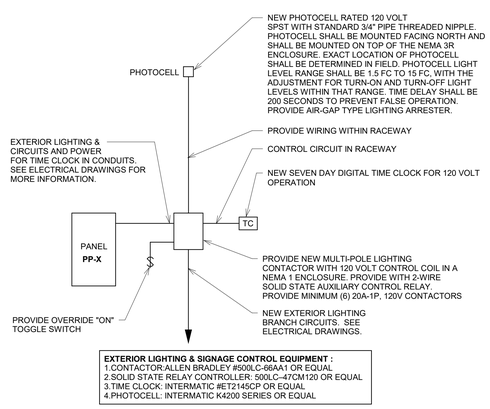
TYPICAL SPECIFICATIONS:

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:

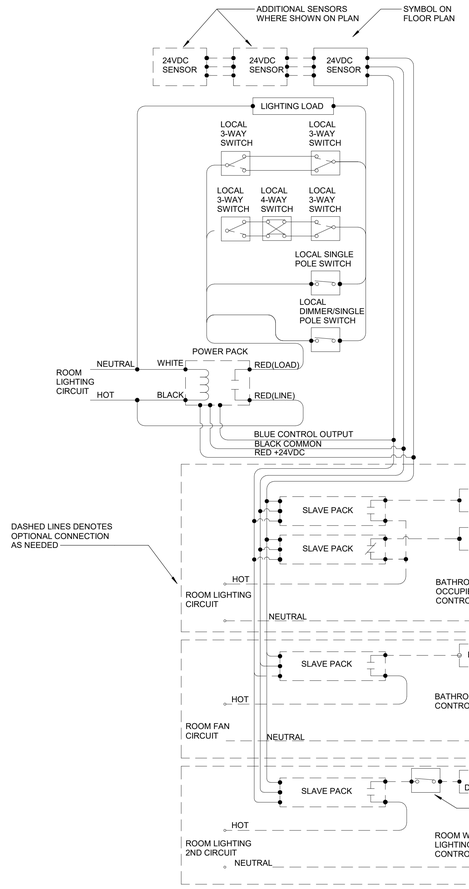
1. THE DAYLIGHTING SENSORS SHALL MEASURE THE TOTAL LIGHT LEVEL. FROM DAYLIGHT AND ELECTRIC LIGHT IN THE CONTROLLED. AS THE DAYLIGHT CONTRIBUTION INCREASES THE LIGHTS SHALL DIM DOWN. THE SENSORS SHALL CALCULATE THE REQUIRED LIGHT LEVEL FOR CURRENT DAYLIGHT CONTRIBUTION BASED ON TWO SETPOINTS. ONE SETPOINT 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:ALLEN BRADLEY #500L/C-66AA1 OR EQUAL
2.SOLID STATE RELAY CONTROLLER: 500LC–47CM120 OR EQUAL
3.TIME CLOCK: INTERMATIC #ET2145CP OR EQUAL
4.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
NTS

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

ELECTRICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E4.01

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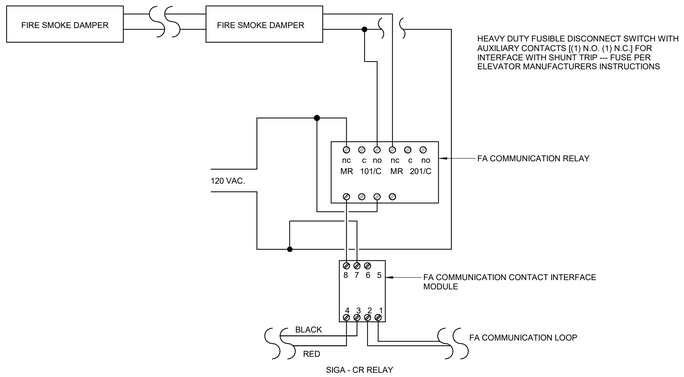
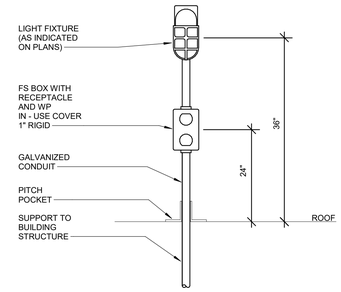
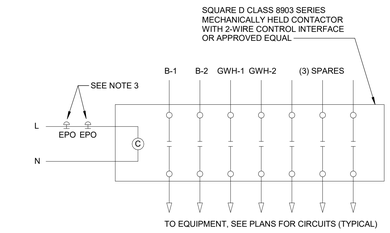


1 TYPICAL 120V FIRE/SMOKE DAMPER WIRING
NTS



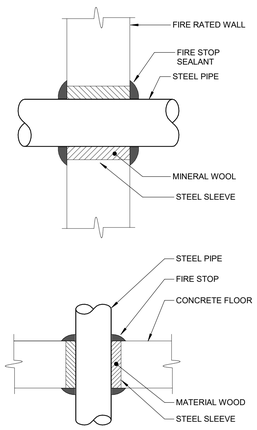
2 ROOF LIGHT FIXTURE AND RECEPTACLE - MOUNTING DETAIL
NTS



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.

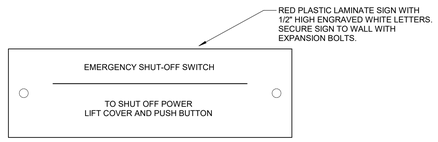
3 BOILER ROOM EPO DETAIL
NTS

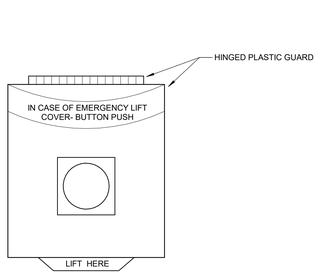


NOTES:

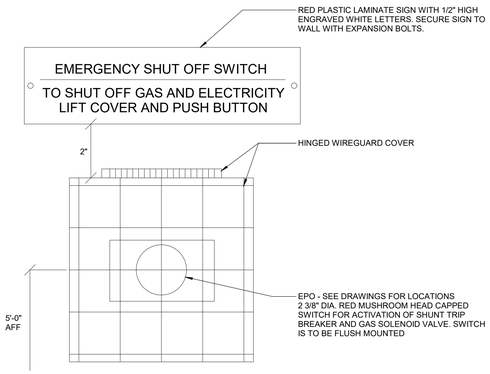
1. 4" STEEL PIPE MAXIMUM (REFER TO FLOOR PLANS FOR SIZE REQUIREMENTS).
2. 6" DIA. OPENING (MAX) WITH STEEL SLEEVE.
3. SLEEVE: 4" OF 4PCF MINERAL WOOL IN OPENING.
4. APPLY FIRE STOP SEALANT THICKNESS MANUFACTURE'S INSTALLATION INSTRUCTIONS. APPLY SEALANT OVER MINERAL WOOL ON EACH SIDE OF PENETRATION.

4 CONDUIT/SLEEVE WALL & FLOOR PENETRATION DETAILS
NTS

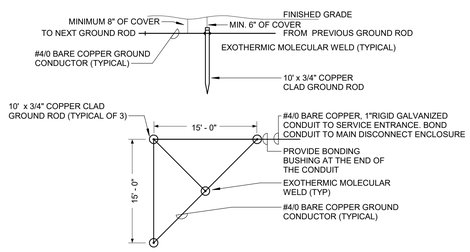




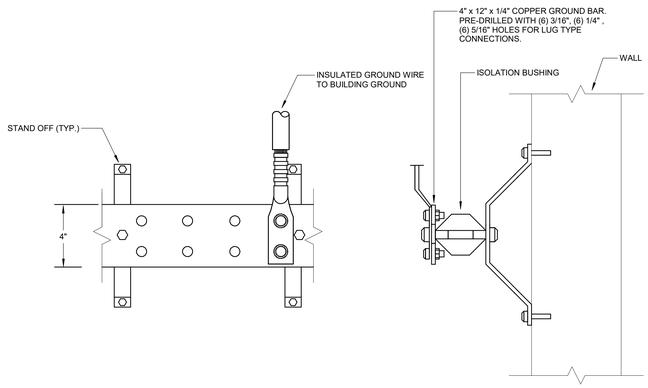
5 EMERGENCEY SHUT-OFF SWITCH WITH PLASTIC GUARD DETAIL
NTS



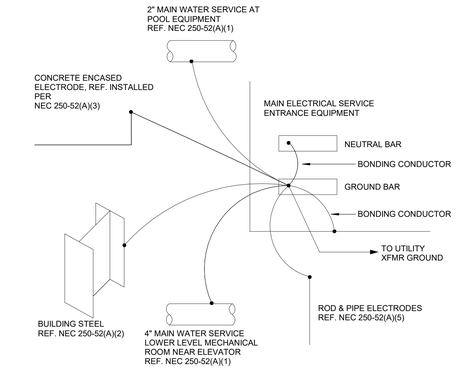
6 EMERGENCY SHUT-OFF SWITCH WITH WIRE GUARD DETAIL
12" = 1'-0"



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
NTS

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1015 BLUE HILLS AVE.
BLOOMFIELD, CT 06002

PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
ELECTRICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E4.02

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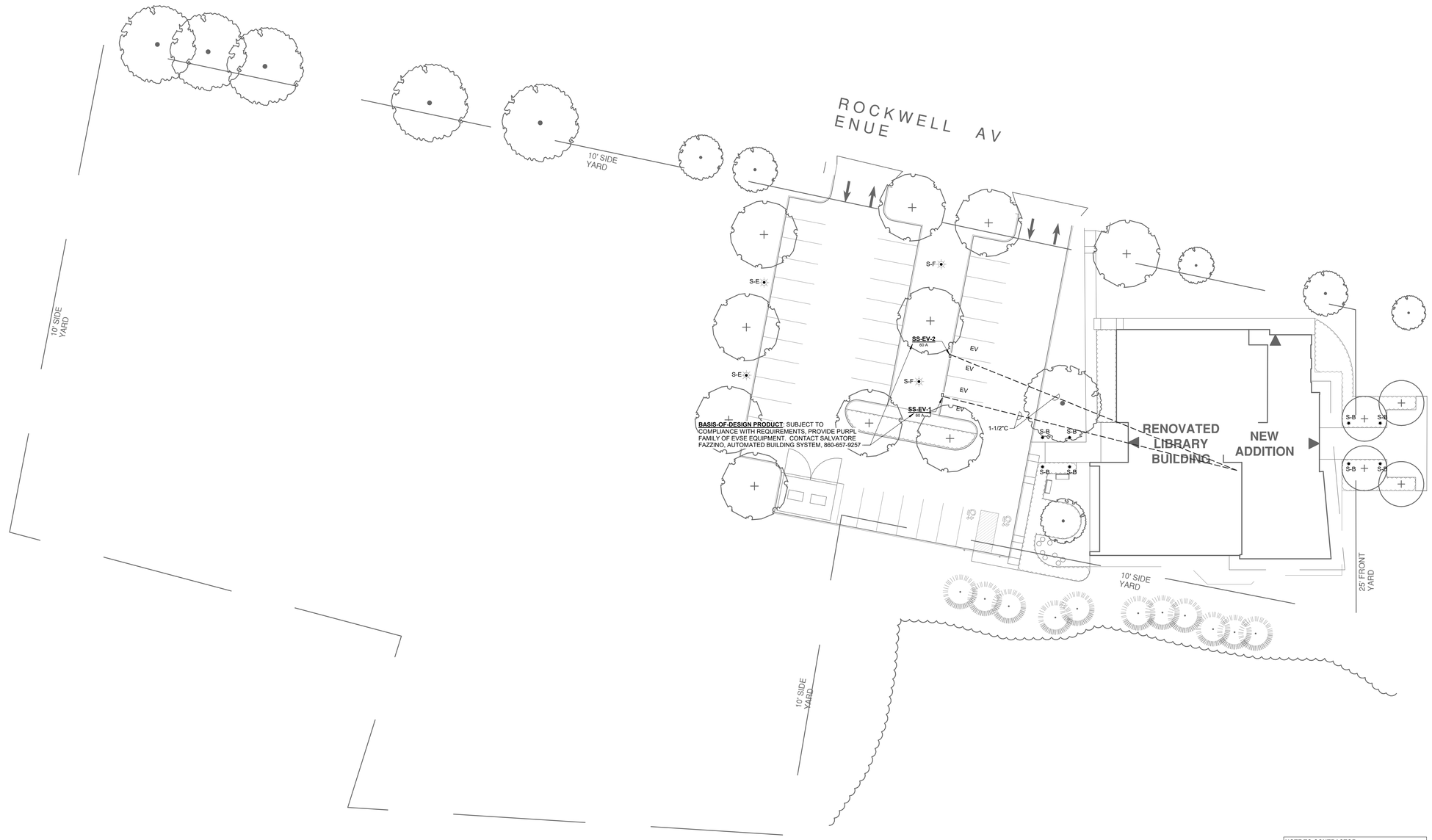

NOTE TO CONTRACTOR:

CARRY ALLOWANCE FOR DECORATIVE BUILDING EXTERIOR WALL PACKS.

1 SITE ELECTRICAL PLAN
1" = 20'-0"

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE ELECTRICAL PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1" = 20'-0"
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

ES1.01

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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
- RV — RADON VENT
- ORL — OVERFLOW RAIN LEADER
- ST — STORM DRAIN
- G — GAS PIPE
- M — 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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PROJECT

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KEY PLAN

DRAWING TITLE

PLUMBING GENERAL INFORMATION

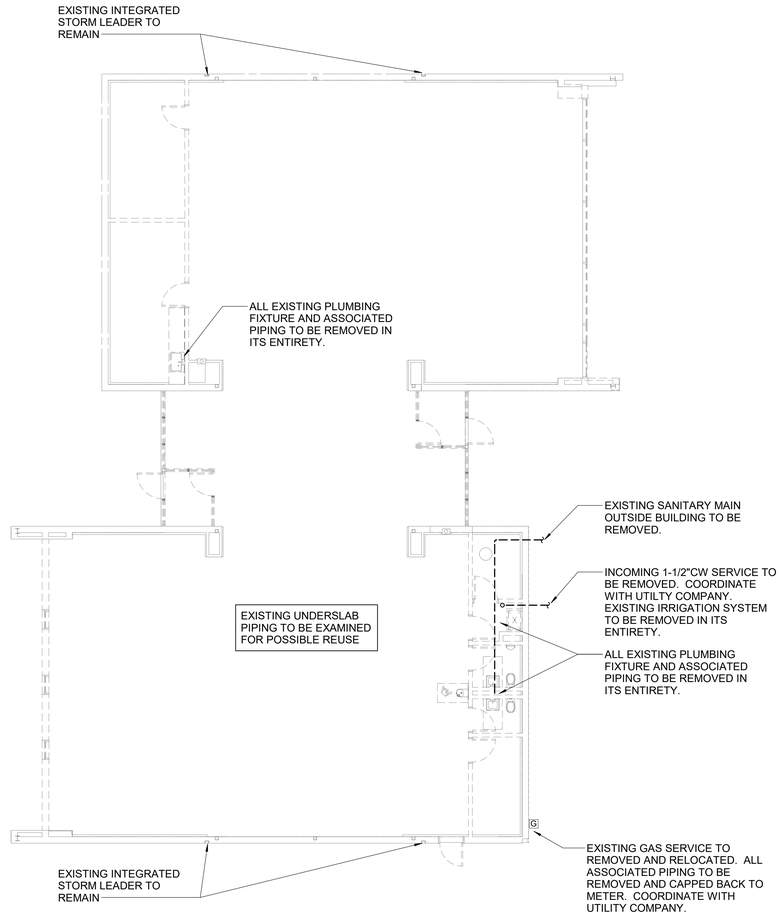
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	As indicated
DATE	10/07/22
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

P0.01

10/7/2022 3:16:26 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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PROJ. NO.	220103
SCALE	1/8" = 1'-0"
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DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

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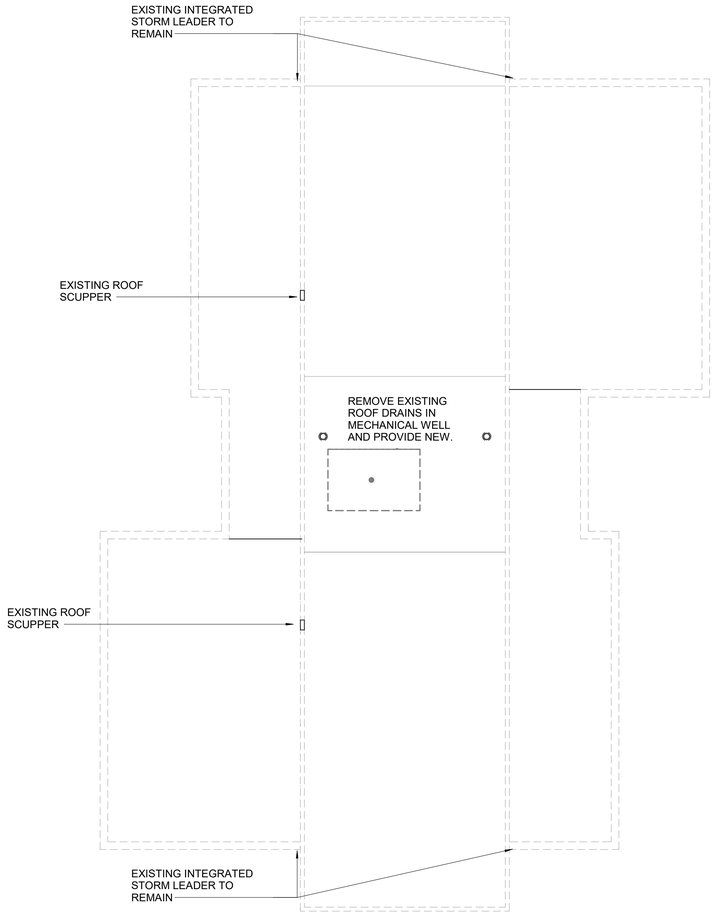
PD1.01

10/7/2022 3:16:46 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt



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

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ROOF PLUMBING DEMOLITION PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

PD1.02

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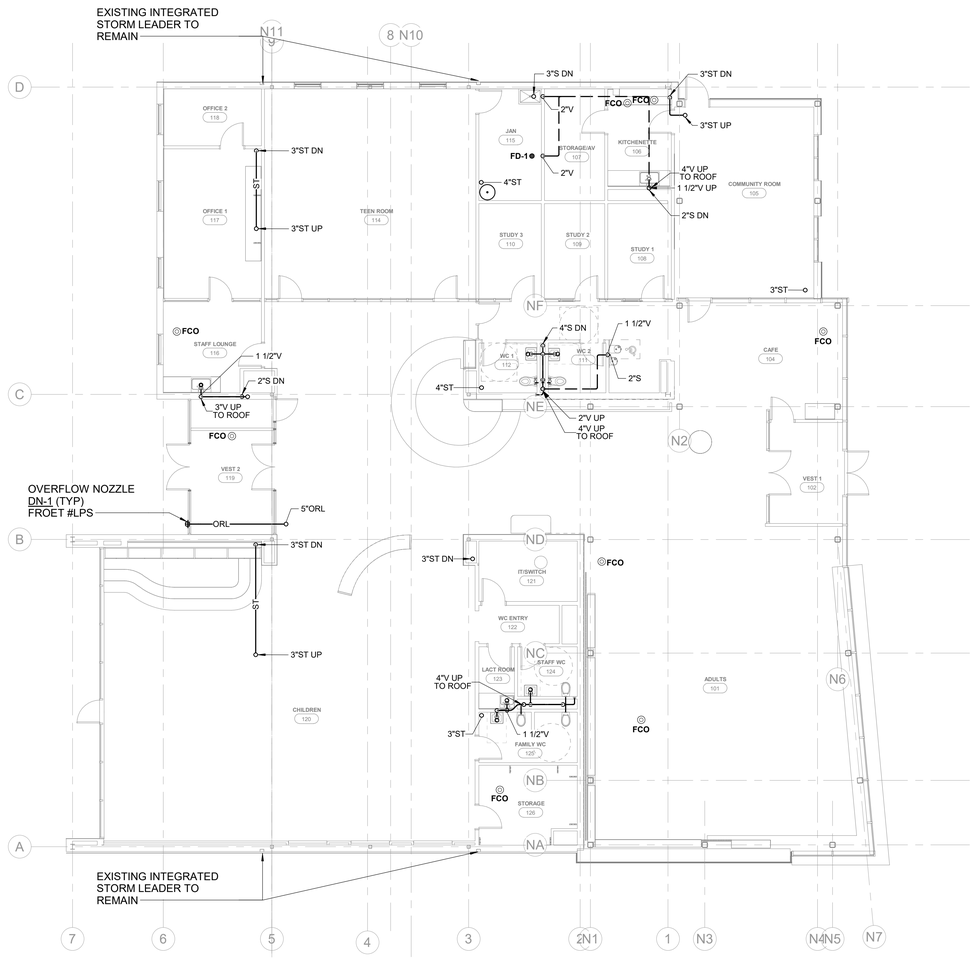
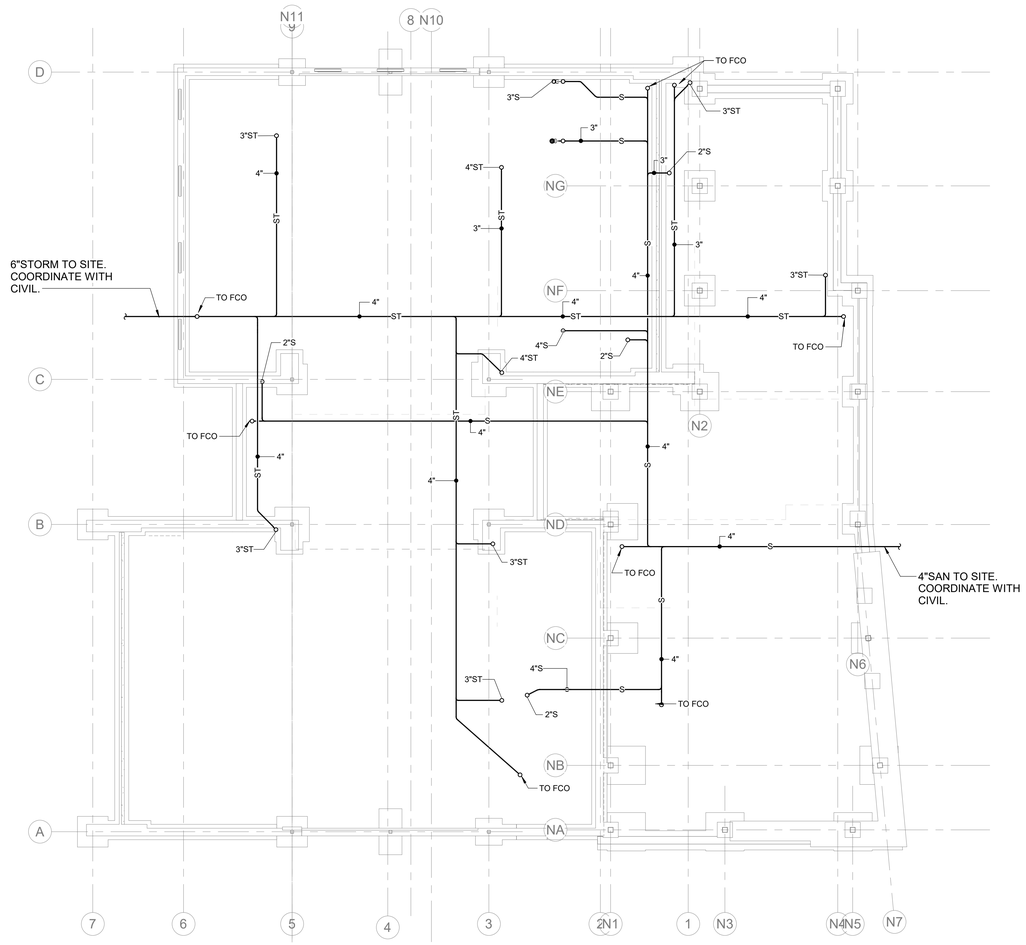


1 FIRST FLOOR DRAINAGE PLAN
1/8" = 1'-0"



2 PLUMBING UNDERSLAB PLAN
1/8" = 1'-0"

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
FIRST FLOOR DRAINAGE PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

P1.01

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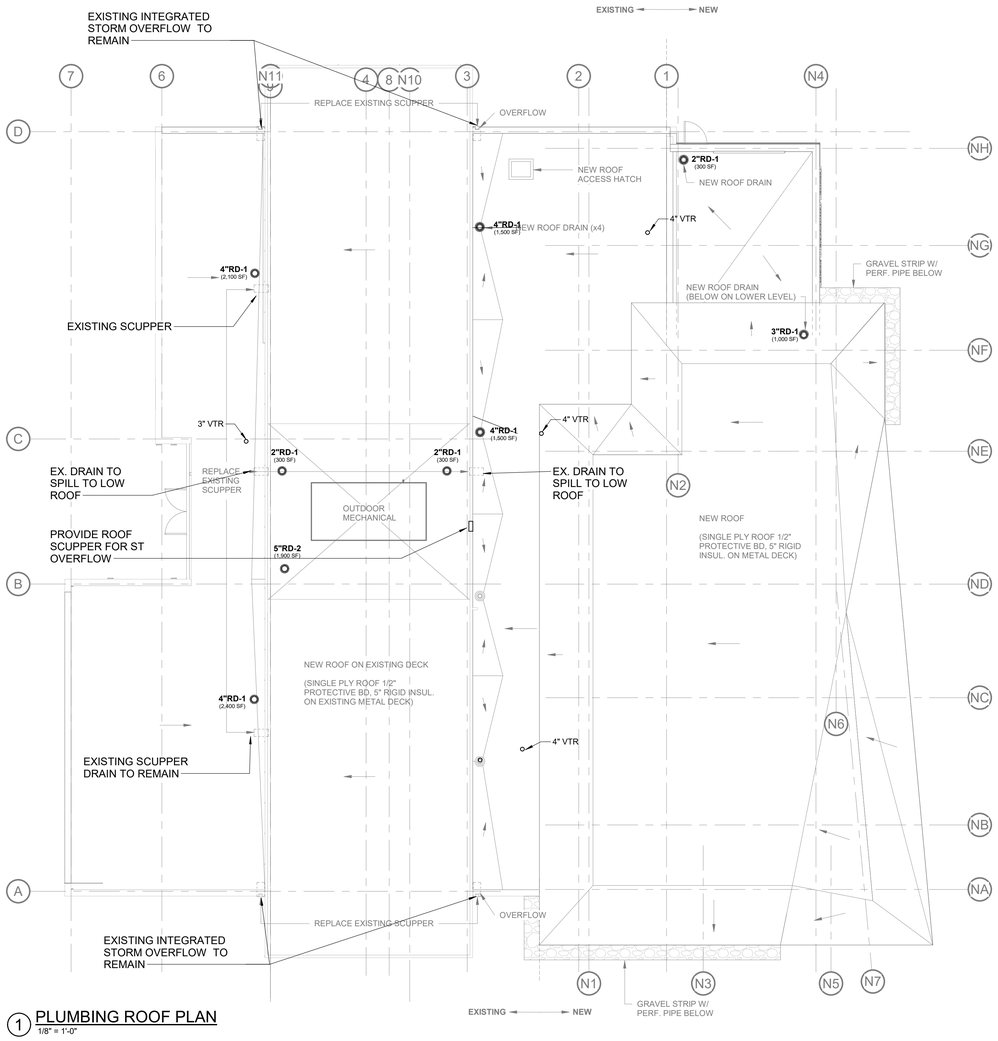

1 PLUMBING ROOF PLAN
1/8" = 1'-0"

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DRAWING TITLE

PLUMBING ROOF PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

P1.02

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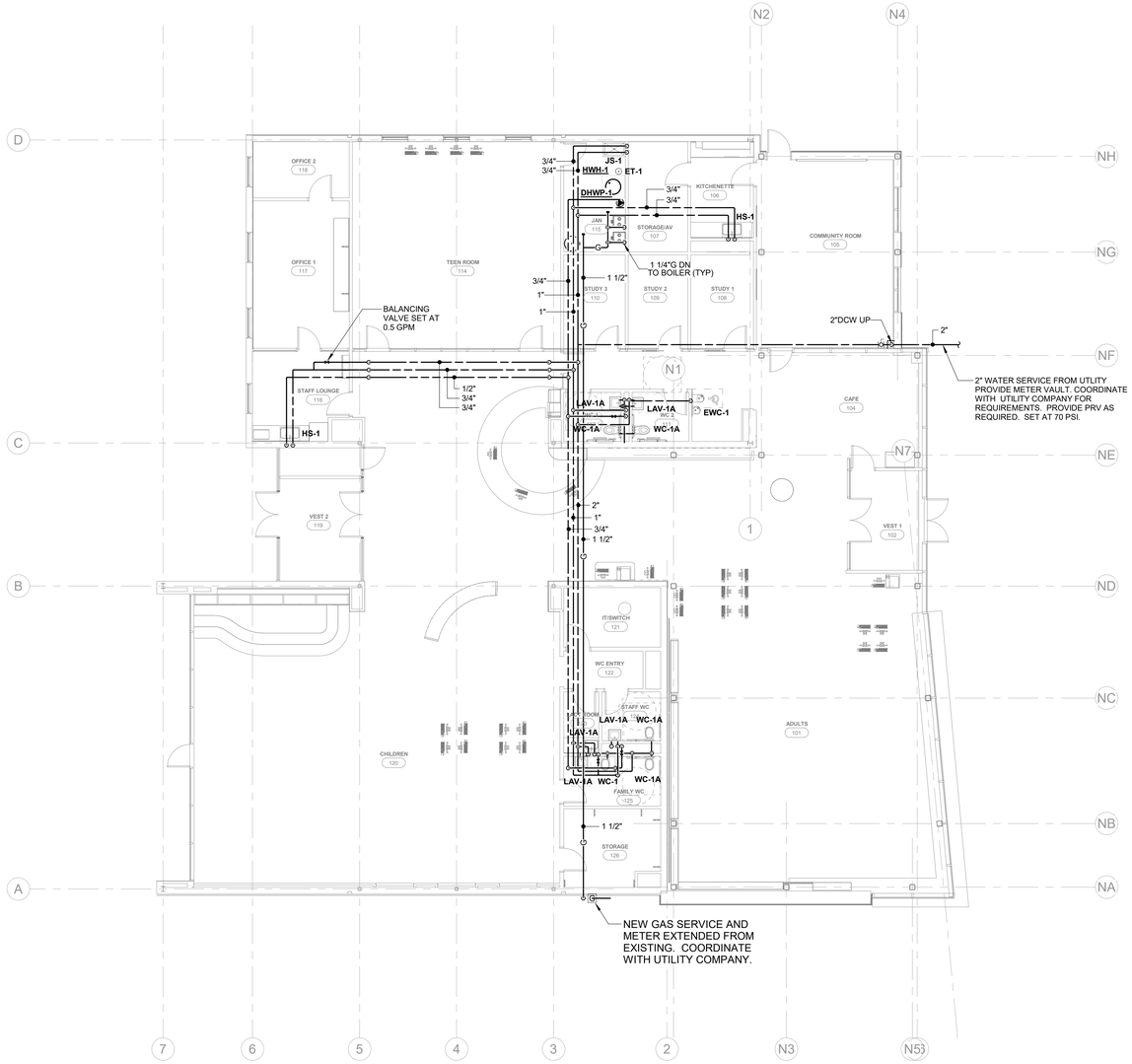

1 FIRST FLOOR PLUMBING SUPPLY PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE

FIRST FLOOR PLUMBING SUPPLY PLAN

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

P2.01

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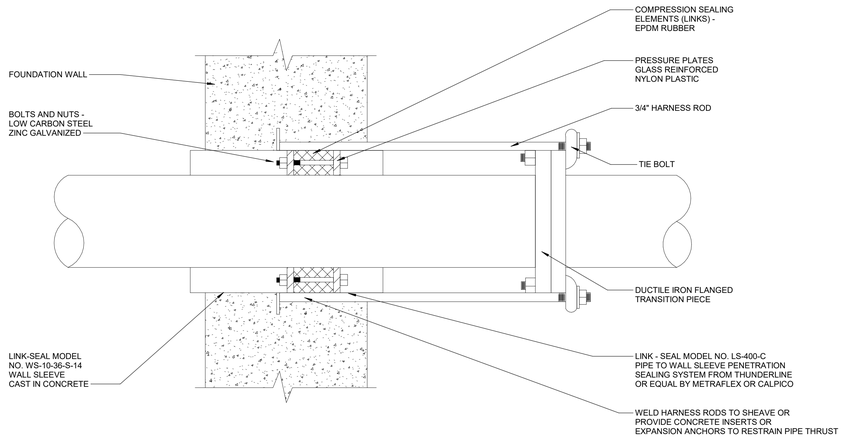
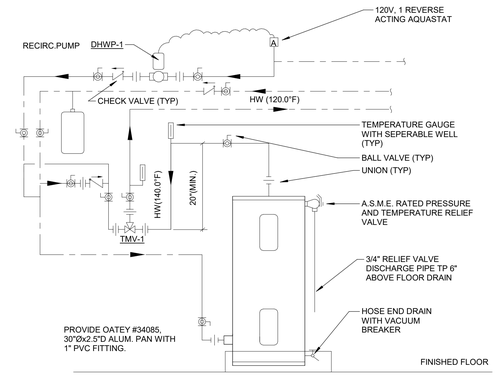
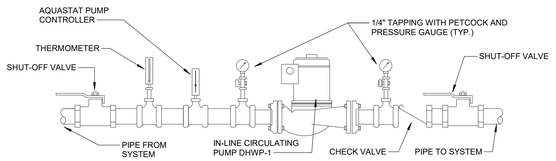


5 WATER SERVICE ENTRANCE DETAIL
12" = 1'-0"

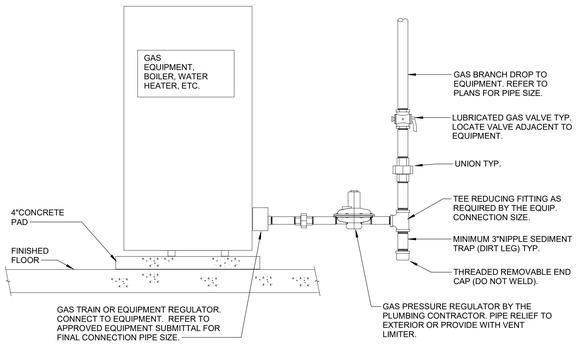


1 ELECTRIC WATER HEATER PIPING DIAGRAM - HWH-1
12" = 1'-0"

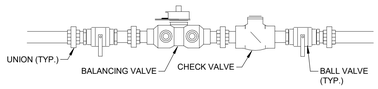


2 DOMESTIC HOT WATER RECIRC PUMP (DHWP-1) DETAIL
NTS

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"

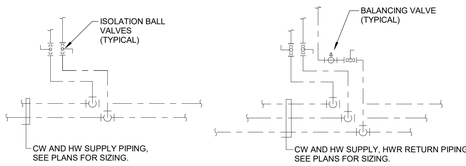


BALANCING VALVE:
WATTS, SERIES CSM-61, LINE SIZE, SOLDER END CONNECTIONS, BRONZE BODY, 1/4" BRASS PRESSURE TAPS

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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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
PLUMBING DETAILS

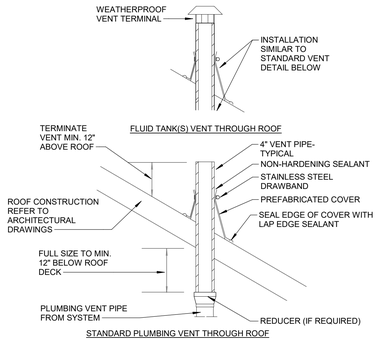
STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	12" = 1'-0"
DATE	10/07/22
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

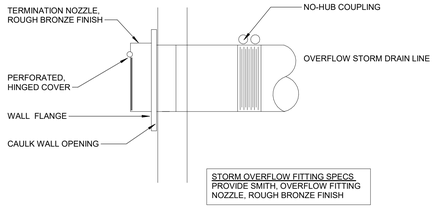
NO.	DATE	PURPOSE

P3.01

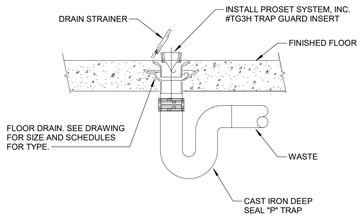
10/7/2022 3:16:40 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt



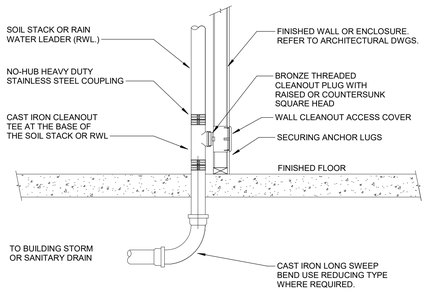
5 PLUMBING ROOF VENT DETAIL1
NTS



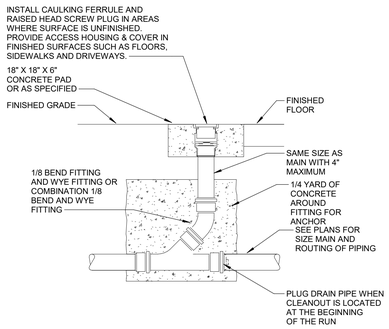
6 OVERFLOW ROOF DRAIN TERMINATION DETAIL
NTS



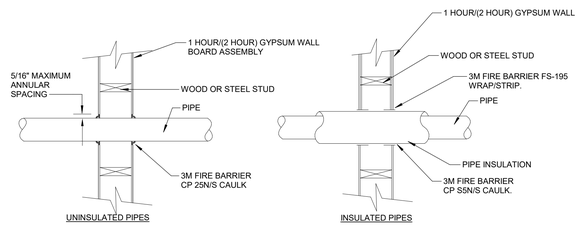
1 TYPICAL FLOOR DRAIN WITH TRAP GUARD INSERT DETAIL
NTS



2 TYPICAL CLEAN OUT DETAIL AT BASE OF SOIL STACK OR RWL
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 DETAILS

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SCALE	NTS
DATE	10/07/22
DRAWN BY	MAW
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ISSUE DATES

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P3.02

10/7/2022 3:16:42 PM BIM 360://Bloomfield Library - McMahon Building/MEP_21-360B Bloomfield Libraries-McMahon Wintonbury.rvt

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, 120V SENSOR OPERATED FAUCET, 0.35 GPM WITH BELOW DECK THERMOSTAIC MIXING VALVE AND HARD WIRED EL-154 24V TRANSFORMER.	
WC-1	WATER CLOSET	No	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-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 295CT 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			CAST IRON BODY WITH FLASHING COLLAR, 6" DIA ROUND NICKEL-BRONZE ADJUSTABLE STRAINER. VANDAL PROOF SCREWS. QUAD CLOSE TRAP SEAL. 2" PIPE SIZE UNLESS OTHERWISE INDICATED ON FLOOR PLANS.	
RD-1		WATTS	RD-100	LARGE AREA PRIMARY ROOF DRAIN	
RD-2		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	MAGNA3	0	0	0	0	0		120 V	1	

PLUMBING FIXTURE SCHEDULE

TYPE	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
ET-1		AMTROL	ST-5C-DD	VERTICAL TANK	

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

PLUMBING SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	220103
SCALE	
DATE	10/07/22
DRAWN BY	MAW
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

P4.01

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