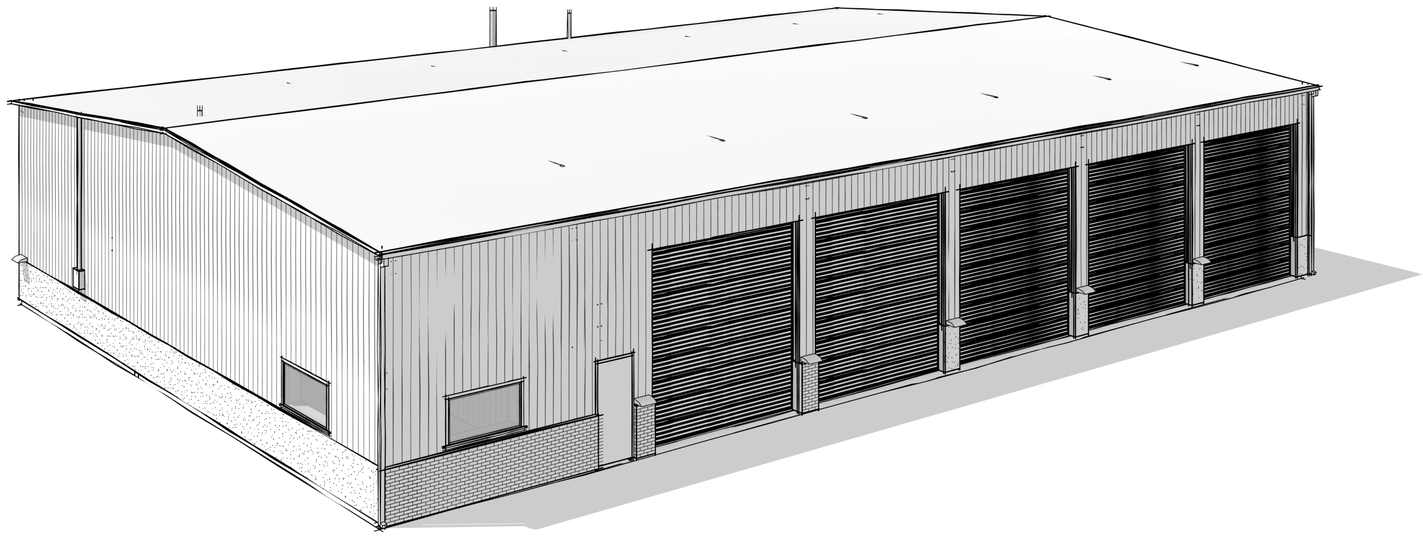
NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535



DRAWING LIST

GENERAL
- G1.10 CODE ANALYSIS

STRUCTURAL
- S0.01 ABBREVIATIONS AND GENERAL NOTES
- S1.00 FOUNDATION PLAN & SECTIONS
- S2.00 MEZZANINE FRAMING PLAN & SECTIONS
- S3.00 ROOF FRAMING PLAN & SECTIONS

ARCHITECTURAL
- A0.10 GENERAL INFORMATION
- A0.20 PARTITION TYPES
- A0.21 PARTITION DETAILS
- A1.10 DEMOLITION FLOOR PLANS
- A2.10 CONSTRUCTION PLANS
- A2.30 ROOF PLAN & DETAILS
- A3.10 REFLECTED CEILING PLAN FIRST FLOOR
- A4.10 EXTERIOR ELEVATIONS
- A7.10 PLAN AND SECTIONAL DETAILS
- A8.10 ENLARGED PLAN AND INTERIOR ELEVATIONS
- A9.10 DOOR SCHEDULES, ELEVATIONS AND DETAILS
- A10.10 EQUIPMENT PLAN AND SCHEDULE

INTERIORS
- I0.10 MATERIALS LIST, FINISH DETAILS & FINISH PLANS

PLUMBING
- P0.00 PLUMBING ABBREVIATIONS, NOTES AND SYMBOLS
- PD1.10 PLUMBING DEMOLITION FLOOR PLAN
- P2.10 PLUMBING FLOOR PLAN
- P5.00 PLUMBING DETAILS
- P6.00 PLUMBING SCHEDULES AND DIAGRAMS

MECHANICAL
- MD1.10 MECHANICAL DUCTWORK DEMOLITION FLOOR PLAN
- MPD1.10 MECHANICAL PIPING DEMOLITION FLOOR PLAN
- M2.10 MECHANICAL DUCTWORK FLOOR PLAN
- MP2.10 MECHANICAL PIPING FLOOR PLAN

ELECTRICAL
- E0.00 ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS
- ED1.10 ELECTRICAL DEMOLITION FLOOR PLAN
- E2.10 ELECTRICAL FLOOR PLAN

Tecton ARCHITECTS

TECTON ARCHITECTS
34 SEQUASSEN STREET, SUITE 200
HARTFORD, CT 06106

JSE
Johnson Structural Engineering, Inc.

JOHNSON STRUCTURAL ENGINEERING, INC.
101 HUNTOON MEMORIAL HIGHWAY
ROCHDALE, MA 01542

CES

CONSULTING ENGINEERING SERVICES
811 MIDDLE STREET
MIDDLETOWN, CT 06457

FUSS & O'NEILL, INC.
108 MYRTLE STREET, SUITE 502
QUINCY, MA 02171

Tecton ARCHITECTS

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title
COVER SHEET

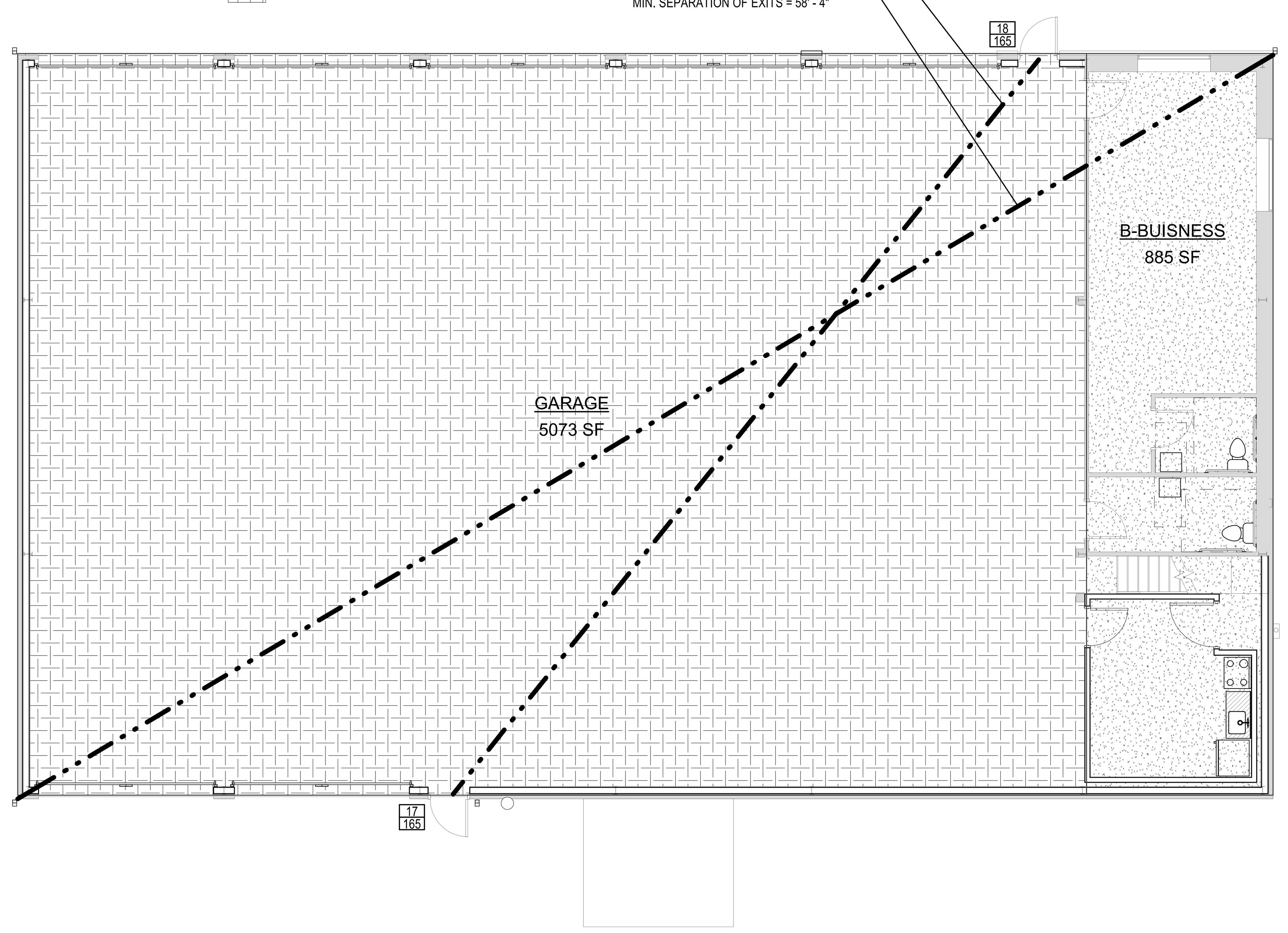
Drawing Number
G0.00

FUNCTION OF SPACE

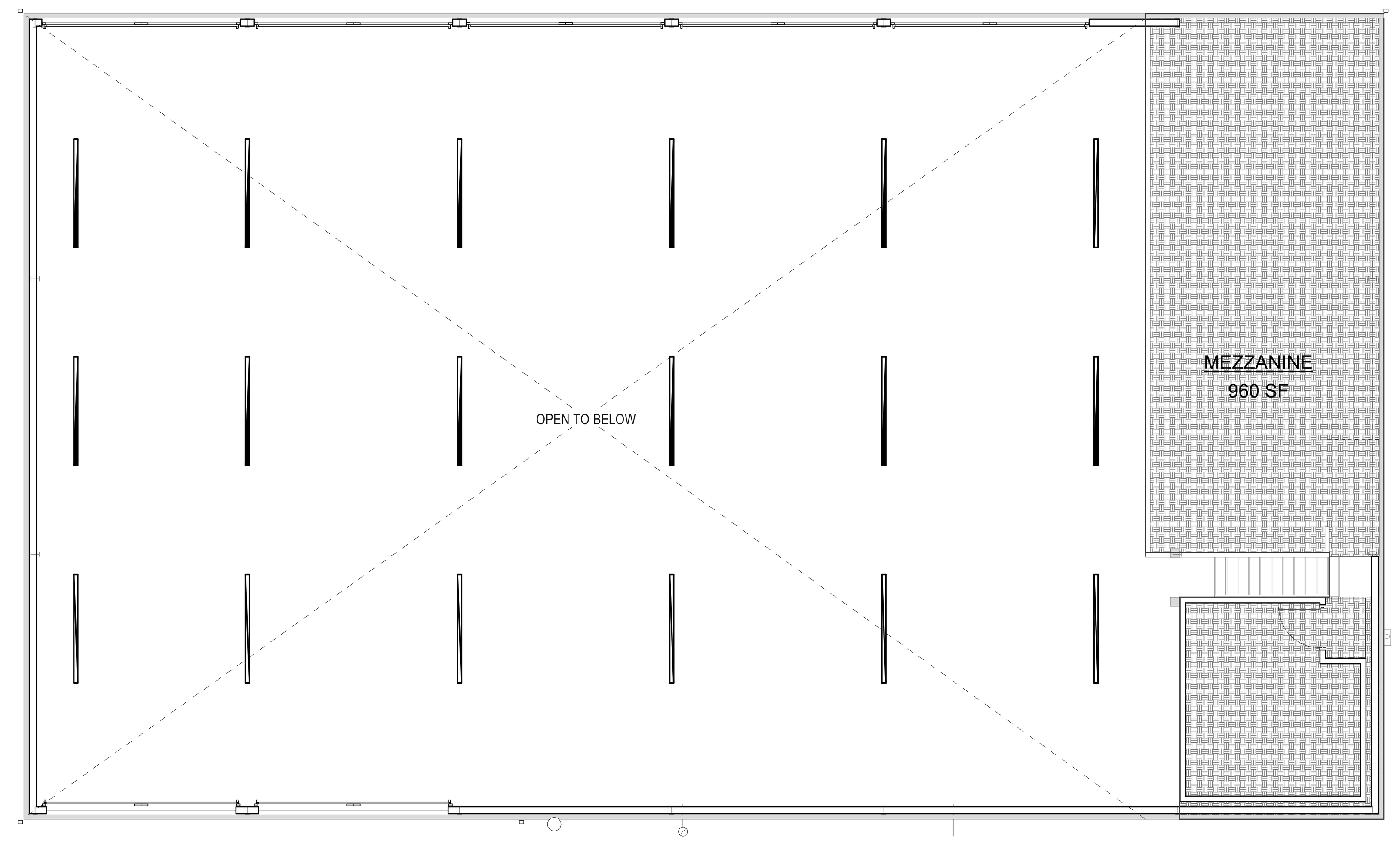
▨ ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM

▨ BUSINESS AREAS

▨ PARKING GARAGES



F12 EGRESS PLAN - FIRST FLOOR
1/8" = 1'-0"

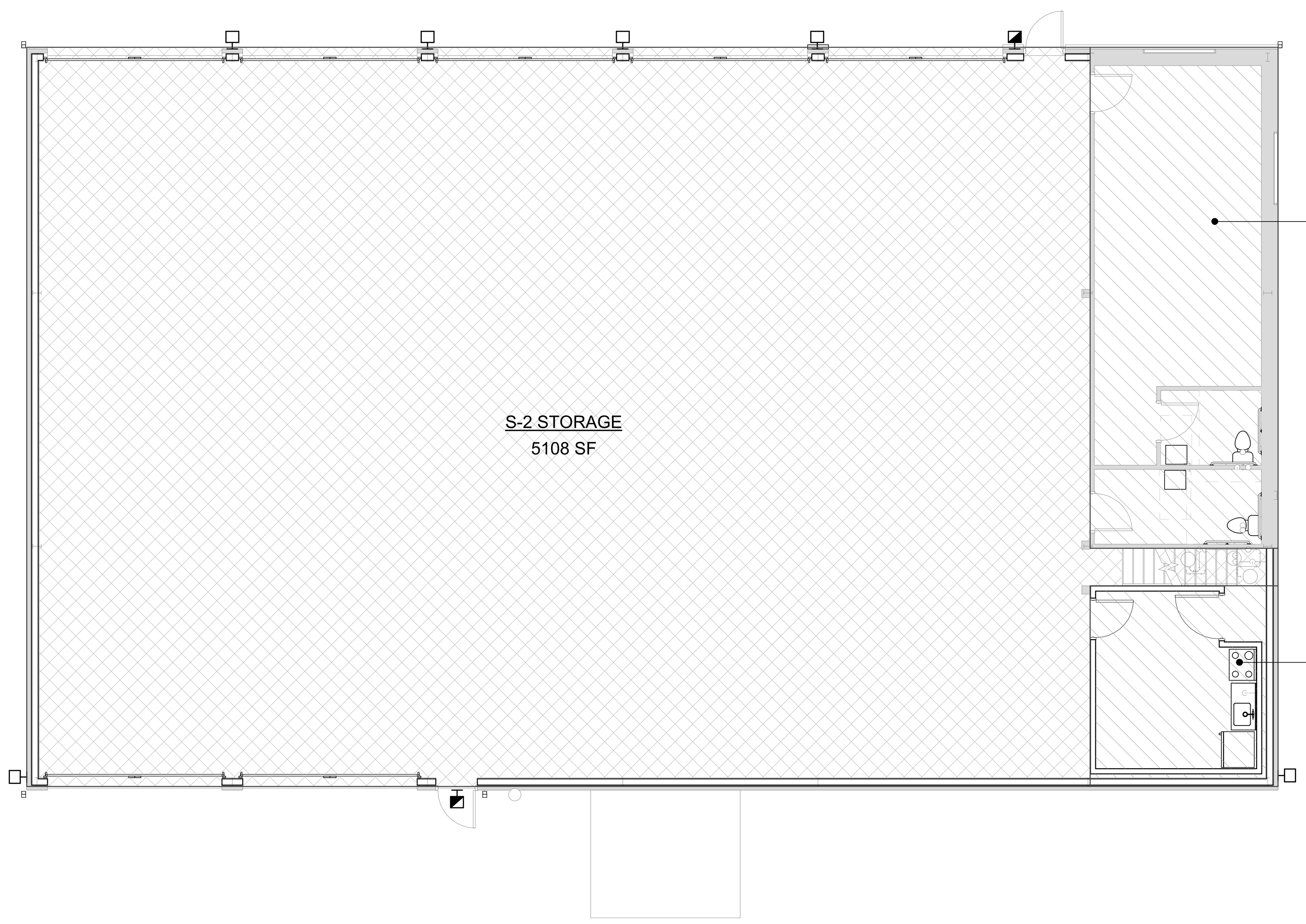


F7 EGRESS PLAN - MEZZANINE
1/8" = 1'-0"

Building Area Legend

▨ B

▨ S-2



K12 USE GROUP PLAN
1/8" = 1'-0"

CODE / EGRESS LEGEND

BUILDING FIRE SEPARATIONS

- SMOKE RATED ASSEMBLY
- ONE HOUR RATED ASSEMBLY
- TWO HOUR RATED ASSEMBLY
- THREE HOUR RATED ASSEMBLY
- FOUR HOUR RATED ASSEMBLY

ROOM OCCUPANCY LOAD

ROOM NAME
NUM
150 SF / 100 = 15P
ACTUAL = #P*

- ROOM SQUARE FOOTAGE
- OCCUPANCY LOAD
- FLOOR AREA IN SQ.FT. / OCCUPANT
- *INCREASED OCCUPANCY PER IBC 1004.2

EXIT CAPACITY

DOORS ### / ### — ACTUAL EGRESS LOAD / ALLOWABLE EGRESS LOAD — STAIRS ### / ###

COMMON PATH OF TRAVEL (?' MAX)

MAXIMUM TRAVEL DISTANCE TO FURTHEST EXIT (?' MAX - NON-SPRINKLED OR SPRINKLED)

INITIAL CODE ANALYSIS

Current scope indicates a Level 2 Alteration

Triggered by:
- Modifications to layout of office space
- Interior addition of Break Room and additional Mezzanine space

Level 2 Alteration Ramifications
- Potential accessibility upgrades
- *705.1 General. A facility that is altered shall comply with the applicable provisions in Sections 705.1.1 through 705.1.14, and Chapter 11 of the International Building Code unless it is technically infeasible. Where compliance with this section is technically infeasible, the alteration shall provide access to the maximum extent that is technically feasible.*

Structural Analysis
- The proposed work is classified as Level 2 Alterations.
- The existing roof structure and wall girts will need to be analyzed to verify their adequacy to support the proposed spray-foam insulation. The structure will need to be reinforced accordingly if the results of the analysis indicate that the existing roof structure and/or wall girts are not adequate to support the weight of the insulation.
- A placard must be installed at the existing mezzanine level indicating a 50psf maximum live load capacity. Alternatively, the existing mezzanine structure will need to be reinforced to comply with the 125psf IBC design live load for light storage.
- The proposed breakroom and storage mezzanine will be designed for a 125psf live load and kept structurally separated from the existing building.
- The roof structure for the lean-to structure above the proposed fueling station will require a full depth foundation and will be kept structurally separated from the existing building.

OCCUPANT LOAD CALCULATIONS per IBC TABLE 1004.1.2

Name	USE GROUP	FUNCTION OF SPACE	AREA	OCCUPANCY LOAD FACTOR	TOTAL OCCUPANTS
B-BUISNESS	S-2	BUSINESS AREAS	885 SF	100	9
GARAGE	S-2	PARKING GARAGES	5073 SF	200	26
MEZZANINE	S-2	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	960 SF	300	4
S-2: 3			6918 SF		39
GRAND TOTAL			6918 SF		39

BUILDING CODES - MASSACHUSETTS

ALL CONSTRUCTION SHALL CONFORM WITH THE FOLLOWING CODES:

CODE TYPE	CODE MODEL
BUILDING / DWELLING CODE	IBC 2015 ; MASS STATE BUILDING CODE, 9TH EDITION, 780 CMR
	2015 INTERNATIONAL EXISTING BUILDING CODE
STRUCTURAL CODE	IBC 2015 ; MASS STATE BUILDING CODE, 9TH EDITION, 780 CMR
PLUMBING CODE	MASS STATE PLUMBING CODE, 248 CMR
MECHANICAL CODE	IMC 2015 ; 780 CMR ; 248 CMR
ELECTRICAL CODE	MASS STATE ELECTRICAL CODE
FIRE / LIFE SAFETY CODE	IFC 2015 ; MASS FIRE PREVENTION REGULATIONS, 527 CMR
ACCESSIBILITY CODE	ARCHITECTURAL ACCESS REGULATIONS, 521 CMR
ENERGY CODE	IECC 2015 ; ASHRAE 90.1, 780 CMR
ELEVATOR CODE	524 CMR ; 780 CMR ; 521 CMR
GAS CODE	N/A
BOILER CODE	N/A
PUBLIC HEALTH CODE	N/A

LAST UPDATE: 09/06/2020

Tecton ARCHITECTS

Client/ Contractor

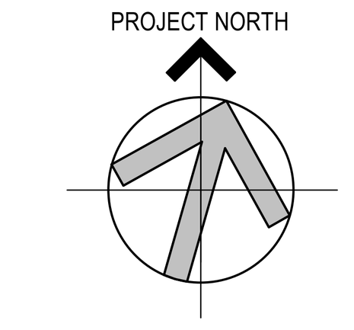
TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535



Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title
CODE ANALYSIS

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

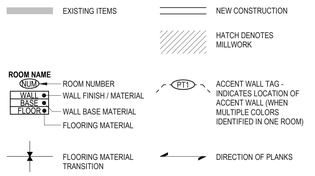
Drawing Number
G1.10

C:\Users\JohnV\Documents\NBR02AR.01_New DPW_R22-Arch_johnvitti.rvt
3/4/2024 10:09:02 AM

GENERAL NOTES - FINISHES

1. FOR ROOMS WITH MULTIPLE WALL FINISHES CALLED OUT REFER TO INTERIOR ELEVATIONS. FOR ROOMS WITH MULTIPLE FLOORING FINISHES CALLED OUT REFER TO FINISH DETAIL PLANS.
2. FOR INTERIOR PAINT FINISHES:
   - ALL INTERIOR WALLS TO BE EGGSHELL FINISH, UNLESS EPOXY FINISH IS NOTED.
   - ALL DOOR AND WINDOW FRAMES TO BE SEMI-GLOSS FINISH.
   - ALL GYPSUM BOARD CEILINGS TO BE PAINTED TO BE FLAT FINISH.
   - ALL PAINTED METAL TO BE SEMI-GLOSS FINISH, UNLESS EPOXY FINISH IS NOTED.
3. ALL EXPOSED COLUMNS THAT ARE NOT INCORPORATED IN A WALL ARE TO BE PAINTED PT-1, UNLESS OTHERWISE NOTED. EXPOSED STRUCTURE THAT IS INCORPORATED IN A WALL IS TO BE PAINTED TO MATCH ADJACENT WALL.
4. FLOOR FINISHES TO EXTEND UNDER CASEWORK AND SPECIALTY/FIREMATIC EQUIPMENT.
5. INSTALL SCHEDULED FLOOR FINISH UP AND ONTO ALL RAISED SLAB LOCATIONS.

FINISHES LEGEND



MATERIALS LIST

RESILIENT FLOORING

VCT-1	ITEM:	VINYL COMPOSITION TILE
	MFR:	TARKETT
	COLLECTION:	VCT II
	COLOR:	TBD
	SIZE:	12"X12"
	THICKNESS:	.125"
	INSTALL:	MONOLITHIC

CONCRETE SEALER

CS-1	ITEM:	SEALED CONCRETE
	MFR:	SHERWIN WILLIAMS
	PRODUCT:	RESUFLOR AQUA 3477 EPOXY WATER EMULSION PRIMER/ SEALER, CLEAR
	LOCATION	AS NOTED

FLOOR TILE

FT-1	ITEM:	PORCELAIN FLOOR TILE
	MFR:	DALTILE
	COLLECTION:	TBD
	COLOR:	TBD
	FINISH:	TBD
	SIZE:	TBD
	THICKNESS:	TBD
	INSTALL:	TBD
	GROUT MFR:	TBD
	GROUT COLOR:	TBD
	GROUT JOINT:	PER MFR RECOMMENDATIONS

STAIR TREADS & RISERS

STR-1	ITEM:	VISUALLY IMPAIRED RUBBER TREAD RISER RAISED ROUNDS
	MFR:	TBD
	PRODUCT:	XX ROUND WITH VISUALLY IMPAIRED STRIPS
	COLOR:	TBD
	NOTE:	WHERE CALLED OUT ON FLOOR AND LANDING, INSTALLER TO USE COORDINATING TILE WITH RAISED ROUNDS

WALL BASE

VB-1	ITEM:	VINYL WALL BASE
	MFR:	JOHSONITE
	SIZE	4" H X 120' COIL
	COLOR:	TBD
	PROFILE:	TBD
	LOCATION	TBD
TB-1	ITEM:	PORCELAIN TILE BASE
	MFR:	DALTILE
	SIZE	TBD
	COLOR:	TBD
	PROFILE:	TBD
	LOCATION	TBD

TILE ACCESSORIES

TA-1	ITEM:	SCHLUTER COVE BASE
	MFR:	SCHLUTER
	SERIES:	TBD
	PRODUCT:	TBD
	COLOR:	TBD
TA-2	ITEM:	SCHLUTER TOP CAP
	MFR:	SCHLUTER
	SERIES:	TBD
	PRODUCT:	TBD
	COLOR:	TBD

WALL TILE

WT-1	ITEM:	PORCELAIN WALL TILE
	MFR:	DALTILE
	COLLECTION:	COLOR WHEEL CLASSIC
	COLOR:	TBD
	COLOR NO:	TBD
	SIZE	6X6
	FINISH::	TBD
	THICKNESS:	TBD
	GROUT MFR:	LATICRETE
	GROUT COLOR:	TBD
	GROUT JOINT:	TBD
	INSTALL:	TBD

PAINT

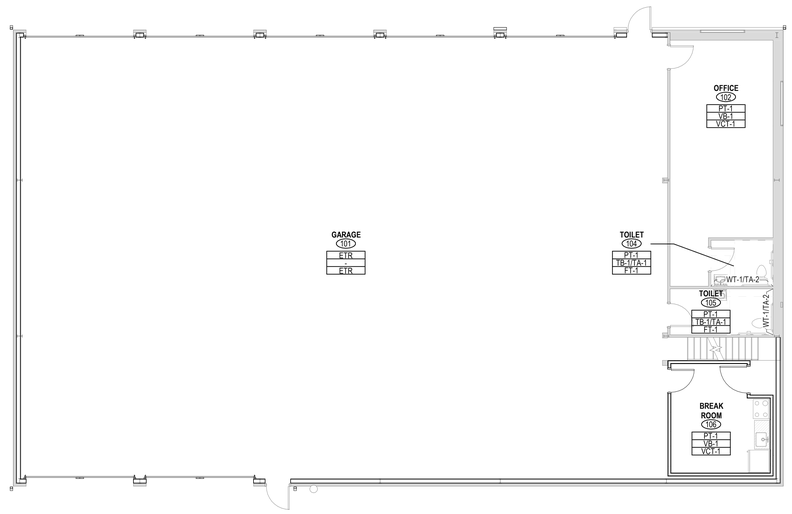
PT-1	MFR:	SHERWIN WILLIAMS
	FINISH:	REFER TO SPECS; VARIES BASED ON SUBSTRATE/APPLICATION
	COLOR:	TBD
	LOCATION:	GENERAL WALL & GYPSUM BOARD CEILINGS, U.O.N. ON RCP
PT-2	MFR:	SHERWIN WILLIAMS
	FINISH:	REFER TO SPECS; VARIES BASED ON SUBSTRATE/APPLICATION
	COLOR:	TBD
	LOCATION:	WALL PAINT DOOR & WINDOW/FRAMES, U.O.N.

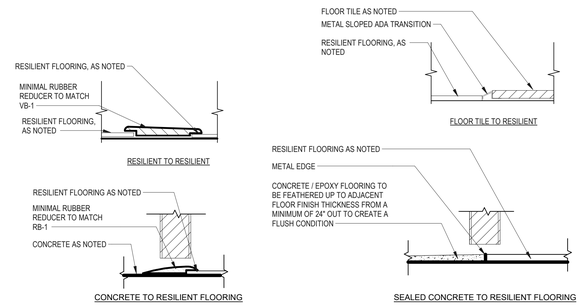
COUNTERTOPS

SS-1	ITEM:	SOLID SURFACE COUNTERTOPS
	APPLICATION:	COUNTERTOPS AS NOTED
	MFR:	WILSONART
	COLOR NAME:	TBD
	LOCATION:	REFER TO ELEVATIONS

ACOUSTICAL PANEL CEILINGS

APC-1	MFR:	ARMSTRONG CEILING
	PRODUCT:	OPTIMA
	EDGE DETAIL:	15/16" SQUARE TEGULAR
	TILE COLOR:	WHITE
	SIZE:	24"X24"
	PRODUCT:	3250
	NRC VALUE:	0.95
	GRID:	15/16" PRELUDE
	GRID COLOR:	WHITE
	LOCATION:	REFER TO RCP
APC-2	MFR:	ARMSTRONG CEILING
	PRODUCT:	OPTIMA HEALTH ZONE
	EDGE DETAIL:	15/16" SQUARE TEGULAR
	TILE COLOR:	WHITE
	SIZE:	24"X24"
	PRODUCT:	3316
	NRC VALUE:	0.95
	GRID:	15/16" PRELUDE
	GRID COLOR:	WHITE
	LOCATION:	TOILET/SHOWER ROOMS AND KITCHENS AS NOTED ON THE RCP





K10 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

K4 FLOORING TRANSITION DETAILS
6" = 1'-0"

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

MATERIALS LIST, FINISH DETAILS & FINISH PLANS

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

I0.10

C:\Users\JohnV\Documents\NBR02AR.01_New DPW_R22-Arch_johnvitti.rvt

3/4/2024 10:09:02 AM

STRUCTURAL ABBREVIATIONS & SYMBOLS

ADD'L	ADDITIONAL
ARCH.	ARCHITECT(URAL)
BLDG.	BUILDING
B.O.F.	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
BOT.	BOTTOM
BP-#	BASE PLATE REFERENCE
CJ	CONTROL JOINT
C.L.	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
COORD.	COORDINATE
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
E.W.	EACH WAY
FIN.	FINISH(ED)
FL.	FLOOR
F.R.P.	FIBERGLASS REINFORCED PLASTIC
F.R.T.	FIRE RETARDANT TREATED
FTG.	FOOTING
GA. (ga.)	GAUGE
GALV.	GALVANIZED (HOT-DIPPED GALVANIZED)
G.C.	GENERAL CONTRACTOR
GEOTECH	GEOTECHNICAL
GYP.	GYPSUM
HORIZ.	HORIZONTAL
INFO.	INFORMATION
K	KIP
LB.	POUND
LGMF	LIGHT-GAUGE METAL FRAMING
MAX.	MAXIMUM
MECH.	MECHANICAL
MISC.	MISCELLANEOUS
MIN.	MINIMUM
MFR.	MANUFACTURER
O.C. (o.c.)	ON CENTER
P#	PIER REFERENCE
PEMB	PRE-ENGINEERED METAL BUILDING
PLF (plf)	POUNDS PER LINEAR FOOT
PSF (psf)	POUNDS PER SQUARE FOOT
PSI (psi)	POUNDS PER SQUARE INCH
P.T.	PRESSURE-TREATED
REINF.	REINFORCED
REQ'D	REQUIRED
SCH.	SCHEDULE
SIM.	SIMILAR
SP.	SPACING
T&B	TOP AND BOTTOM
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.SHELF	TOP OF SHELF
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
W.W.F.	WELDED WIRE FABRIC
@	AT
°	DEGREE
Ø	DIAMETER

GENERAL NOTES

A - CODES:

1. 780 CMR (MASSACHUSETTS STATE BUILDING CODE, 9th. EDITION)
2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
3. AMERICAN CONCRETE INSTITUTE (ACI)
4. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
5. STEEL JOIST INSTITUTE (SJI)

B - DESIGN LOADS:

1. SNOW LOAD:
   - GROUND SNOW LOAD — XX psf
   - EXPOSURE FACTOR — XX
   - THERMAL FACTOR — XX
   - RISK CATEGORY — XX
   - DESIGN SNOW LOAD — XX psf
   - DRIFTING — AS PER 780 CMR 1610
2. SOLAR (ROOF) — 5 psf
3. FLOOR LIVE LOADS:
   - OFFICE (50+20 PARTITIONS) — 70 psf
   - 1st FL. CORRIDORS, STAIRS — 100 psf
   - UPPER FL. CORRIDORS — 80 psf
   - LIGHT STORAGE — 125 psf
   - CONCRETE SLAB ON GRADE — 100 psf
4. WIND LOAD:
   - BASIC WIND SPEED (ULTIMATE) — XX mph
   - EXPOSURE CATEGORY — XX
   - RISK CATEGORY — XX
   - NET UPLIFT WIND PRESSURE ON ROOF — -XX psf @ SALIENT CORNERS & -XX psf ELSEWHERE
5. SEISMIC LOADS:
   - R — XX (STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE)
   - Sds — XX
   - Sd1 — XX
   - T — XX
   - RISK CATEGORY — XX
   - SITE CLASSIFICATION — XX
   - SEISMIC DESIGN CATEGORY — XX
   - EQUIVALENT LATERAL FORCE METHOD

C - STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL TO COMPLY WITH ASTM REQUIREMENTS AS FOLLOWS:
   - W-SHAPES — A992 — fy = 50 ksi
   - HSS TUBES — A500 — fy = 46 ksi
   - STEEL PIPE — fy = 35 ksi
   - ALL OTHERS — A36 — fy = 36 ksi
2. BOLTED CONNECTIONS TO BE MADE WITH SLIP CRITICAL CONNECTION AS PER ASTM-325.
3. MINIMUM THICKNESS OF CONNECTING ANGLES TO BE 3/8".
4. LEVELING PLATES TO BE 1/4" THICK, SAME SIZE AS BASE PLATE.
5. STIFFENER PLATES TO BE 3/8" THICK (MIN.) EACH SIDE OF BEAM WEB.
6. STEEL JOIST SEATS SHALL BE 2 1/2" DEEP FOR K AND KCS SERIES JOISTS. JOIST SEATS SHALL BE 5" DEEP FOR LONGSPAN JOISTS.
7. BRIDGING FOR STANDARD "X" BRIDGING TO BE IN ACCORDANCE WITH SJI.
8. JOISTS STRADDLING COLUMNS SHALL BE BOLTED.
9. FURNISH AND INSTALL STEEL ANGLES TO SUPPORT DECK, WHERE DECK CHANGES DIRECTION.
10. PROVIDE AND INSTALL L4"x4"x5/16" AND WELD TO COLUMN TO SUPPORT LINTELS.
11. STEEL BEAMS ENCASED IN CONCRETE SHALL NOT BE PAINTED.
12. EXTEND BOTTOM CHORD OF ALL JOISTS ABOVE CEILINGS.
13. ALL EXPOSED WELDING SHALL BE GROUND SMOOTH.
14. ALL MISALIGNED BOLT HOLES IN STRUCTURAL STEEL SHALL BE PLUG WELDED SOLID AND REDRILLED FOR SPECIFIED BOLTS.
15. G.C. SHALL VERIFY IN WRITING THAT ALL BOLTED CONNECTIONS ARE COMPLETED AS SPECIFIED, AS PER CURRENT AISC STANDARDS AND HAVE BEEN TORQUE-TESTED ACCORDING TO AISC SPECIFICATIONS BEFORE LOADS ARE APPLIED.
16. ALL UNUSED BOLT HOLES SHALL BE PLUG WELDED SOLID AND GROUND SMOOTH.
17. ALL WELDING (IN SHOP & FIELD) SHALL COMPLY WITH LATEST AWS STANDARDS AND SHALL BE COMPLETED BY AN AWS-CERTIFIED WELDER.
18. ALL COLUMNS TO HAVE MASONRY TIES: ASTM 82 (STEEL WIRE 3/16"Ø MINIMUM STANDARD MILL) BEFORE SHOP COAT PAINT IS APPLIED.
19. ALL POINT LOADS APPLIED TO JOISTS (HUNG LOADS FROM MECHANICAL DUCTWORK, PIPING, ELECTRICAL CONDUITS, ETC.), TO HANG FROM TOP CHORD PANEL POINTS ONLY. UNDER NO CONDITIONS SHALL LOADS BE HUNG FROM BOTTOM CHORDS OF JOISTS.
20. ANCHOR BOLTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
    - INTERIOR STEEL COLUMNS
      - ASTM F1554 (UNLESS OTHERWISE NOTED ON BASE PLATE DETAILS)
      - MIN. Ø = 3/4" (SEE BASE PLATE DETAILS)
      - LENGTH = 12" + 3" HOOK
    - EXTERIOR STEEL COLUMNS
      - ASTM F1554 (UNLESS OTHERWISE NOTED ON BASE PLATE DETAILS)
      - MIN Ø = 3/4" (SEE BASE PLATE DETAILS)
      - LENGTH = 18" + 3" HOOK
21. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT OF TNEMEC 99G METAL PRIMER OR EQUAL. COLOR TO BE GREY.
22. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED. PAINT ALL FIELD DRILLED HOLES AND FIELD WELDS WITH COLD GALVANIZING PAINT.
23. ALL WELDS ON ARCHITECTURAL EXPOSED STEEL SHALL BE GROUND SMOOTH TO THE ARCHITECT'S SATISFACTION.
24. THE SURFACE ON ALL ARCHITECTURAL EXPOSED STEEL SHALL BE FREE OF ALL BLEMISHES, ROUGHNESS, ETC. TO THE ARCHITECT'S SATISFACTION
25. STRUCTURAL CONNECTIONS SHOWN ON THESE DRAWINGS ARE GENERALLY SCHEMATIC. ALL STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS RETAINED BY THE FABRICATOR. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", 14TH ED. DESIGN FOR ALL CONNECTIONS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION.
26. ALL SHEAR CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AT EACH LOCATION WHERE THEY ARE REQUIRED, INDICATED OR OTHERWISE, IN THE CONTRACT DRAWINGS. THE CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISC MANUAL TO DEVELOP END REACTIONS BASED ON MAXIMUM TOTAL UNIFORM LOAD TABLES (MANUAL OF STEEL CONSTRUCTION, PG. 3-35 THRU PG. 3-97). COMPOSITE BEAMS SHALL HAVE END REACTIONS MAGNIFIED BY A FACTOR OF 1.5. WHERE REACTIONS ARE SPECIFICALLY IDENTIFIED ON THESE DRAWINGS, THEY SHALL BE USED FOR CONNECTION DESIGN INSTEAD OF THE TABLES AND NO OTHER INCREASE FOR COMPOSITE BEAMS IS REQUIRED.
27. ALL CONNECTIONS WITHIN THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL BE DESIGNED BY THE FABRICATOR AT EACH LOCATION INDICATED ON THE CONTRACT DRAWINGS. THE CONNECTIONS ARE NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R<3).
    - A. THE AXIAL CONNECTION AT THE ENDS OF TENSION AND COMPRESSION MEMBERS SHALL BE DESIGNED TO DEVELOP THE FULL AXIAL LOAD INDICATED ON THE DRAWINGS THUS (P=xxK) OR FOR THE ALLOWABLE TENSILE CAPACITY OF THE CONNECTED MEMBER (0.9 x Fy x Ag), WHICHEVER IS LARGER.
    - B. THE MOMENT CONNECTION AT THE ENDS OF MOMENT FRAME BEAMS SHALL BE DESIGNED TO DEVELOP THE FULL MOMENT INDICATED ON THE DRAWINGS THUS (M=xxFT-K) OR FOR THE ALLOWABLE MOMENT CAPACITY OF THE MEMBER (0.9 x Fy x Z).

D - METAL ROOF AND FLOOR DECK:

1. METAL ROOF DECK TO BE TYPE "B", 20 GA, 1 1/2" HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
2. METAL FLOOR DECK TO BE B-LOK COMPOSITE, 20 GA, 1-1/2" HOT-DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
3. CLOSURE PLATES TO BE 20 GAUGE GALVANIZED, UNLESS OTHERWISE SHOWN ON PLANS OR SPECIFIED.

E - STEEL LINTELS:

1. STEEL LINTELS AT ALL MASONRY OPENINGS, DOORS, WINDOWS, RECESSES, DUCTS, VENTS, ETC. (FURNISHED UNDER MISCELLANEOUS METALS) SHALL BE AS FOLLOWS:

OPENING WIDTH	LINTEL / 4" WIDTH OF MASONRY
0'-0" -- 4'-0"	L4 x 3-1/2 x 5/16
4'-1" -- 6'-0"	L5 x 3-1/2 x 5/16
6'-1" -- 8'-0"	L6 x 3-1/2 x 5/16

2. BEARING OF LINTELS ON WALL TO BE 8" MINIMUM. GROUT 3 CELLS (MIN.) SOLID BELOW FOR BEARING.
3. FOR 6" MASONRY SIZE WT4X9 FOR 3'-6" MAXIMUM OPENING.
4. ALL EXTERIOR ANGLE LINTELS AND ALL BEAMS WITH P LINTELS TO BE HOT DIPPED GALVANIZED.

F - CONCRETE & MASONRY:

1. CONCRETE FOR SLABS-ON-GRADE AND SLABS ON METAL DECK TO BE 4,000 PSI AT 28 DAYS. CONCRETE FOR FOUNDATION WALLS AND FOOTINGS TO BE 4,000 PSI AT 28 DAYS. CONCRETE FOR EXTERIOR APRONS TO BE 5,000 psi AT 28 DAYS.
2. CONCRETE WORK TO CONFORM TO ACI-318 CODE, LATEST EDITION.
3. VAPOR BARRIER IS REQUIRED UNDER ALL SLABS ON GRADE (SEE SPECIFICATIONS).
4. COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS OTHERWISE NOTED OR DRAWN.
5. STEEL COLUMN POCKETS TO BE FILLED WITH CONCRETE AFTER COLUMNS ARE IN PLACE.
6. LIGHTWEIGHT CONCRETE TO BE 115 PCF MAXIMUM.
7. DEPRESS TOP OF FOUNDATION WALLS AT DOORS (COORDINATE WITH ARCHITECT).
8. ALL CONCRETE EXCEPT LIGHTWEIGHT TO BE STONE CONCRETE.
9. EXTERIOR FOUNDATION WALL FOOTINGS TO BE CARRIED 4'-0" MINIMUM BELOW FINISHED GRADE.
10. TOP OF WALLS SUPPORTING SLABS AND FOOTINGS SUPPORTING WALLS TO BE KEYED.
11. ISOLATION JOINTS ARE REQUIRED AT EVERY INTERIOR COLUMN (TYPICAL).
12. CONTROL JOINTS SAWED OR PREMOLDED (SEE PLANS FOR LOCATIONS).
13. CMU SHALL HAVE MINIMUM ALLOWABLE STRESS OF F'm = 1,900 PSI.
14. CMU SUPPLIER SHALL SUBMIT ALL PERTINENT CMU PRODUCT AND DESIGN DATA AND SHALL CERTIFY CMU COMPLIANCE WITH ASTM C 90.
15. MASONRY CONTRACTOR SHALL PROVIDE WELDER TO FIELD WELD ALL REBAR TO THE STRUCTURAL STEEL FRAMING AS INDICATED ON THE FRAMING SECTIONS.
16. MASONRY CONTRACTOR TO SUPPLY DUR-O-WALL CLIPS AND LAYOUT TO THE STRUCTURAL STEEL FABRICATOR AND/OR MISCELLANEOUS STEEL FABRICATOR WHERE DUR-O-WALL CLIPS ARE INDICATED TO BE SHOP WELDED TO THE STEEL FRAMING MEMBERS.
17. GROUT SHALL BE FIVE STAR EPOXY GROUT BY US GROUT CORP., OR EQUAL.
18. SLUMP NOT TO EXCEED 5" FOR FOOTINGS.
19. SLUMP NOT TO EXCEED 5" FOR ALL OTHER POURS.
20. WATER-CEMENTITOUS MATERIALS RATIO NOT TO EXCEED 0.45 FOR CONCRETE EXPOSED TO DEICERS OR SUBJECT TO FREEZING AND THAWING WHILE MOIST.
21. AIR CONTENT NOT TO EXCEED 3-PERCENT FOR SLABS.
22. AIR CONTENT TO BE 6-PERCENT (+1/-1.5) FOR ALL OTHER POURS.

G - CONCRETE REINFORCING:

1. ALL CONCRETE REINFORCING TO COMPLY WITH LATEST EDITION OF CRSI.
2. CONCRETE REINFORCING TO BE NEW BILLET STEEL, GRADE 60.
3. WELDED WIRE FABRIC TO BE AS PER ASTM-A185.
4. REINFORCING STEEL CLEAR COVER TO BE AS FOLLOWS:
   - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH — 3"
   - FORMED CONCRETE SURFACES IN CONTACT WITH SOIL, WATER — 2"
   - SLAB ON GRADE - TOP — 3/4"
   - TIES IN CONCRETE PIERS — 1-1/2"
5. CONCRETE PIER VERTICAL BARS TO BE 1" BELOW TOP OF PIER.
6. CONDUITS RUN IN FLOOR SLAB-ON-GRADE TO BE CENTERED IN SLAB AND COVERED WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC.
7. 4" OR 6" THICK CONCRETE WALKS AND SLABS-ON-GRADE TO BE REINFORCED WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC.
8. FURNISH AND INSTALL 2 - #5x4'-0" AT ALL CORNERS AND WALL JUNCTIONS AT SAME SPACING AS WALL REINFORCING. WALLS NOT DETAILED SHALL HAVE 2 - #5's TOP AND BOTTOM.

H - WOOD:

1. ALL WOOD NAILERS TO BE PRESSURE TREATED UNLESS OTHERWISE NOTED.
2. ALL WOOD MEMBERS TO HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES:

DIMENSION LUMBER (SPRUCE PINE FIR)	LVL MEMBERS	PSL COLUMNS
Fb = 875 psi	Fb = 2,800 psi	
Fv = 135 psi	Fv = 285 psi	Fc = 2,500 psi
E = 1,400,000 psi	E = 1,900,000 psi	E = 1,800,000 psi

3. FLOOR JOISTS AND ROOF RAFTERS TO ALIGN WITH BEARING WALL STUDS BELOW.
4. STUDS IN BEARING WALLS TO ALIGN FLOOR TO FLOOR.
5. INFILL TJI / BCI JOIST WEBS PER THE MANUFACTURER REQUIREMENTS.
6. WALL SHEATHING TO BE 1/2" APA STRUCTURAL 1 RATED PLYWOOD SHEATHING EXP. 1 OR EXT.
7. ROOF SHEATHING TO BE 5/8" APA STRUCTURAL 1 RATED PLYWOOD SHEATHING EXP. 1 WITH CLIPS AT ALL JOINTS.
8. GABLE TRUSSES TO INCLUDE VERTICAL 2x MEMBERS AT 16" o.c. FOR EXTERIOR WALL SHEATHING ATTACHMENT.

I - LIGHT-GAUGE:

1. ALL LIGHT-GAUGE MEMBERS TO COMPLY WITH LATEST EDITION OF AISI.
2. LIGHT-GAUGE METAL FRAMING SYSTEM TO BE COMPLETELY DESIGNED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR LIGHT-GAUGE MEMBER SIZES, SPACING, CONNECTIONS, TEMPORARY BRACING, ETC.
3. NO GAPS ARE PERMITTED BETWEEN ANY FLOOR JOISTS AND RIM TRACKS.
4. NO GAPS ARE PERMITTED BETWEEN ANY WALL STUDS AND TOP AND BOTTOM TRACKS.
5. LIGHT-GAUGE MEMBERS SHALL MEET THE FOLLOWING MINIMUM CRITERIA:
   - a.) METAL STUDS AND JOISTS - Fy = 33 ksi
   - b.) MEMBERS WHERE NOTED - Fy = 50 ksi
6. LIGHT-GAUGE METAL JOISTS SHALL HAVE 2" MINIMUM FLANGES.
7. LIGHT-GAUGE METAL STUDS SHALL HAVE 1-5/8" MINIMUM FLANGES.

J - SOILS AND STRUCTURAL FILL:

1. SOIL BEARING DESIGN VALUE = 3,000 psf (AS PER GEOTECHNICAL REPORT).
2. UNSUITABLE SOILS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL COMPACTED TO 95% COMPACTION IN 8" LAYERS.
3. PLACE 12" COMPACTED GRAVEL UNDER ALL SLABS ON GRADE.

K - MISCELLANEOUS:

1. FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
2. G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
3. VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS.
4. SEE HVAC, PLUMBING AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF CONCRETE PADS, BASES, AND SLEEVES REQUIRED THROUGH FOUNDATION WALLS.
5. SEE HVAC DRAWINGS FOR LOCATION AND SIZE OF ALL FLOOR AND ROOF OPENINGS INCLUDING ROOF FANS. PROVIDE AND INSTALL FRAMING AS SHOWN ON STRUCTURAL DRAWINGS.
6. NO MATERIAL SHALL BE FABRICATED UNTIL SHOP DRAWINGS ARE APPROVED. SHOP DRAWINGS SHALL BE SAME SIZE AND CLARITY AS CONTRACT DRAWINGS, AND SHALL BE COORDINATED WITH OTHER RELATED SHOP DRAWINGS.
7. NO PERMISSION WILL BE GRANTED FOR ANY STRUCTURAL DRAWINGS TO BE REPRODUCED FOR USE AS SHOP DRAWINGS.
8. A MINIMUM OF FOUR HARD COPIES ARE REQUIRED FOR EACH SHOP DRAWING SUBMITTAL (ALL MATERIALS).
9. G.C. SHALL COORDINATE THE WORK OF ALL TRADES TO PROVIDE FUNCTIONAL AND DIMENSIONAL COMPATIBILITY BETWEEN ALL COMPONENTS.
10. G.C. SHALL SUBMIT LIGHT-GAUGE METAL STUD FRAMING SUBMITTAL TO THE STRUCTURAL ENGINEER-OF-RECORD FOR REVIEW. SUBMITTAL SHALL INCLUDE DESIGN CALCULATIONS AND SHOP DRAWINGS, AND MUST BE STAMPED AND SIGNED BY A MASSACHUSETTS LICENSED STRUCTURAL ENGINEER PRIOR TO SUBMISSION.
11. G.C. SHALL SUBMIT WOOD TRUSS SUBMITTAL TO THE STRUCTURAL ENGINEER-OF-RECORD FOR REVIEW. SUBMITTAL SHALL INCLUDE DESIGN CALCULATIONS AND SHOP DRAWINGS, AND MUST BE STAMPED AND SIGNED BY A MASSACHUSETTS LICENSED STRUCTURAL ENGINEER PRIOR TO SUBMISSION.
12. G.C. SHALL SUBMIT TEMPORARY SHORING SUBMITTAL TO THE STRUCTURAL ENGINEER-OF-RECORD FOR REVIEW. SUBMITTAL SHALL INCLUDE DESIGN CALCULATIONS AND SHOP DRAWINGS, AND MUST BE STAMPED AND SIGNED BY A MASSACHUSETTS LICENSED STRUCTURAL ENGINEER PRIOR TO SUBMISSION.
13. G.C. TO RELOCATE ALL EXISTING CONDUITS, DUCTS, PIPES, ETC. AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY).
14. G.C. TO REMOVE & REPLACE ALL INTERIOR FINISHES AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY) - MATCH ORIGINAL CONDITIONS.

Tecton ARCHITECTS

JSE
Johnson Structural Engineering, Inc.
101 Huntoon Memorial Highway (Rt. 56)
Rochdale, Massachusetts 01542
phone: (508) 892-4884 fax: (508) 892-0477

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description

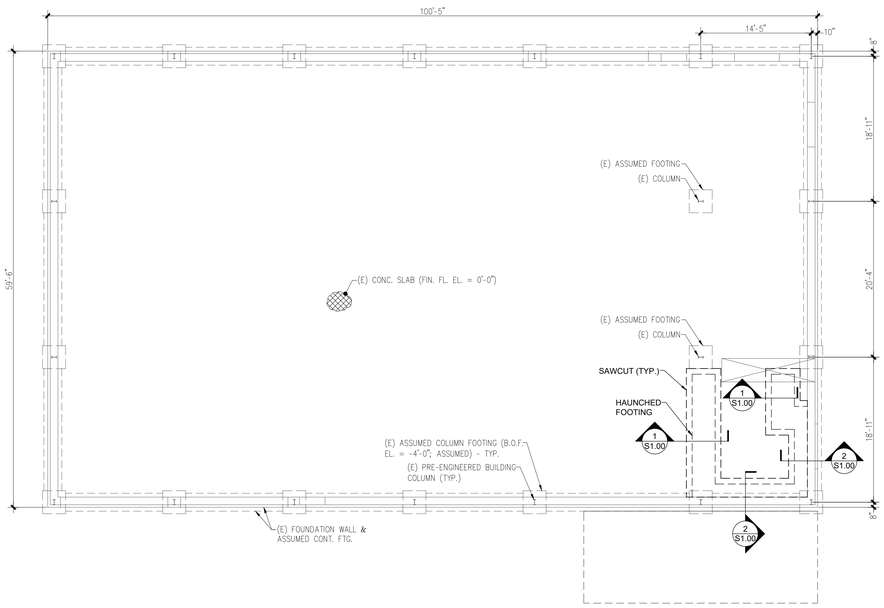
Drawing Title

ABBREVIATIONS AND GENERAL NOTES

Project Manager:	RAJ	Project No:	NBR02AR.01
Project Architect:	-	Production Leader:	MLB
Project Designer:	TPA	Peer Reviewer:	-

Drawing Number

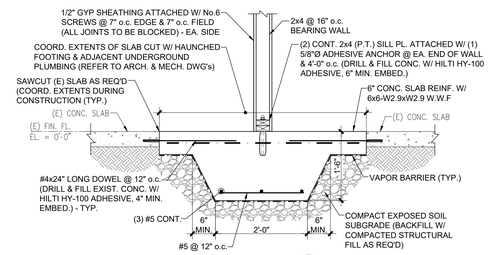
S0.01



DENOTES :
1.) (E) INDICATES EXISTING, OTHERWISE NEW.
2.) G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
3.) FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
4.) VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND OWNER.
5.) G.C. TO RELOCATE ALL EXISTING CONDUITS, DUCTS, PIPES, OUTLETS, SWITCHES, ETC. AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY).

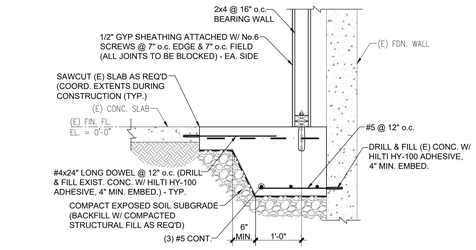
FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



SECTION 1 / S1.00

SCALE: 3/4" = 1'-0"



SECTION 2 / S1.00

SCALE: 3/4" = 1'-0"

Tecton ARCHITECTS

JSE
Johnson Structural Engineering, Inc.
101 Huntoon Memorial Highway (Rt. 56)
Rochdale, Massachusetts 01542
phone: (508) 892-4884 fax: (508) 892-0477

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description

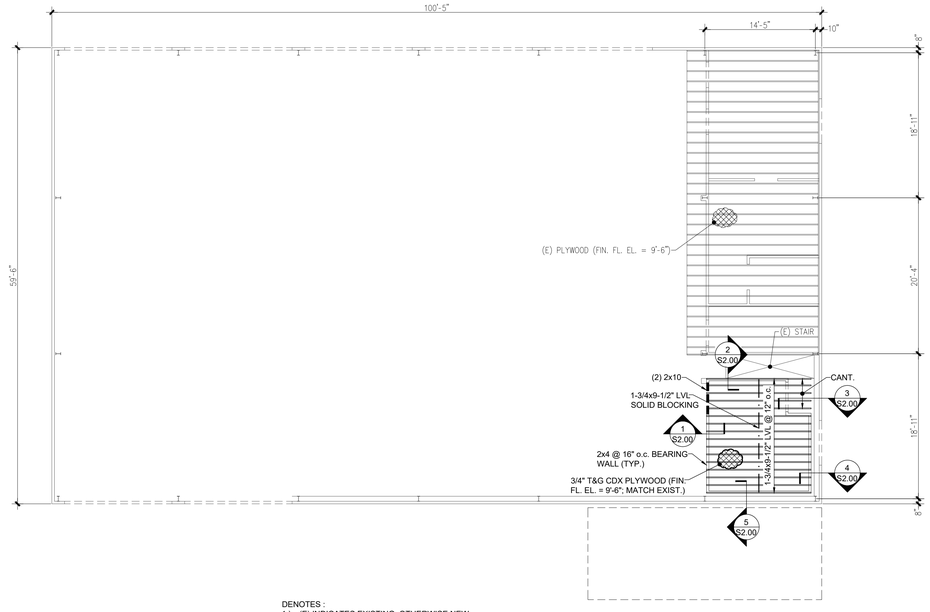
Drawing Title

FOUNDATION PLAN & SECTIONS

Project Manager:	RAJ	Project No:	NBR02AR.01
Project Architect:	-	Production Leader:	MLB
Project Designer:	TPA	Peer Reviewer:	-

Drawing Number

S1.00

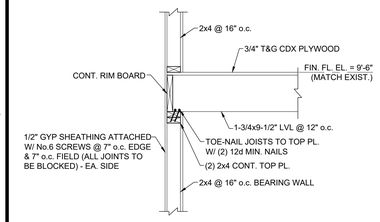


DENOTES :

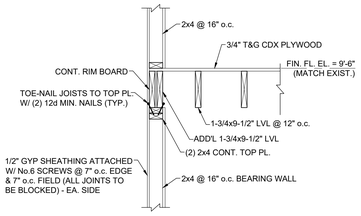
1.) (E) INDICATES EXISTING, OTHERWISE NEW.
2.) G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
3.) FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
4.) VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND OWNER.
5.) ALL (2) 2x HEADERS IN 2x4 WOOD STUD WALLS SHALL INCLUDE (1 LAYER) 1/2" PLYWOOD.
6.) ALL HEADERS SHALL BE SUPPORTED BY (3) 2x POSTS AT EACH END UNLESS OTHERWISE NOTED (MATCH WALL STUD DEPTH). POSTS MUST BE CONTINUOUS DOWN TO THE FOUNDATION. INSTALL WOOD BLOCKING BETWEEN THE FLOOR JOISTS BELOW THE POST LOCATIONS.
7.) G.C. TO RELOCATE ALL EXISTING CONDUITS, DUCTS, PIPES, OUTLETS, SWITCHES, ETC. AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY).

MEZZANINE FRAMING PLAN

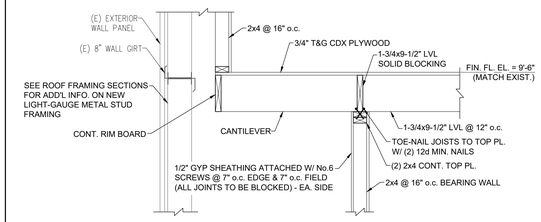
SCALE: 1/8" = 1'-0"



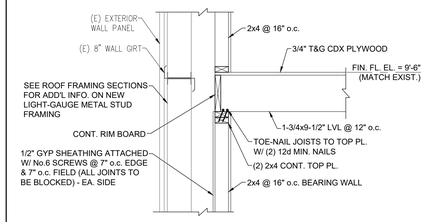
SECTION 1 — SCALE: 3/4" = 1'-0" — S2.00



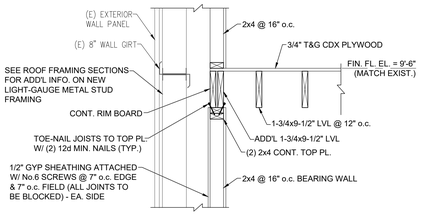
SECTION 2 — SCALE: 3/4" = 1'-0" — S2.00



SECTION 3 — SCALE: 3/4" = 1'-0" — S2.00



SECTION 4 — SCALE: 3/4" = 1'-0" — S2.00



SECTION 5 — SCALE: 3/4" = 1'-0" — S2.00

Tecton ARCHITECTS

JSE
Johnson Structural Engineering, Inc.
101 Huntoon Memorial Highway (Rt. 56)
Rochdale, Massachusetts 01542
phone: (508) 892-4884 fax: (508) 892-0477

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description

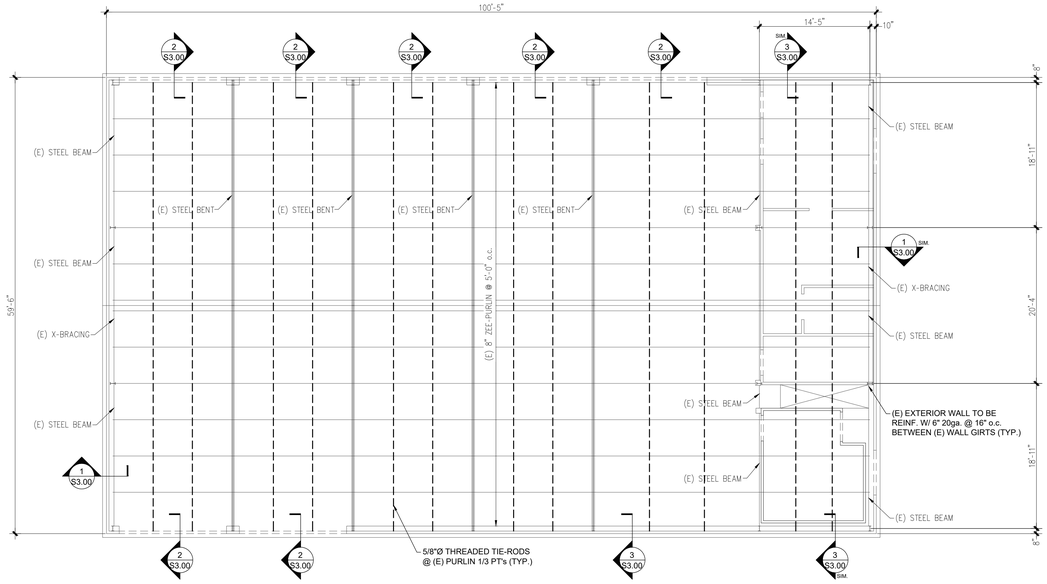
Drawing Title

MEZZANINE FRAMING PLAN & SECTIONS

Project Manager:	RAJ	Project No:	NBR02AR.01
Project Architect:	-	Production Leader:	MLB
Project Designer:	TPA	Peer Reviewer:	-

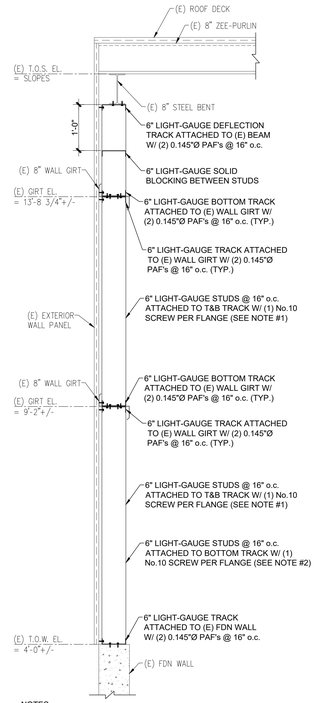
Drawing Number

S2.00



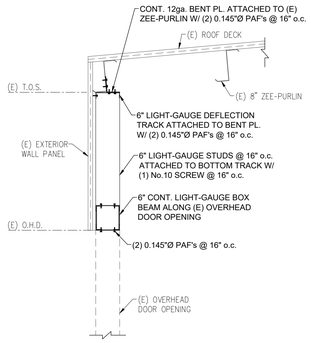
DENOTES :
1.) (E) INDICATES EXISTING, OTHERWISE NEW.
2.) G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
3.) FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
4.) VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND OWNER.
5.) G.C. TO RELOCATE ALL EXISTING CONDUITS, DUCTS, PIPES, OUTLETS, SWITCHES, ETC. AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY).

ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



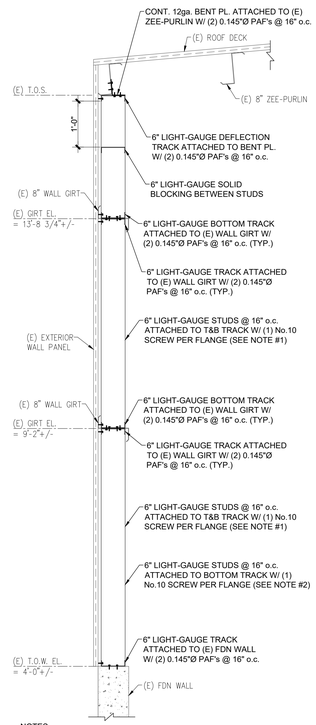
NOTES:
1.) NO GAPS ARE PERMITTED BETWEEN THE WALL STUDS AND THE TOP AND BOTTOM TRACK.
2.) NO GAPS PERMITTED BETWEEN THE WALL STUDS AND THE BOTTOM TRACK

SECTION 1 S3.00
SCALE: 3/4" = 1'-0"



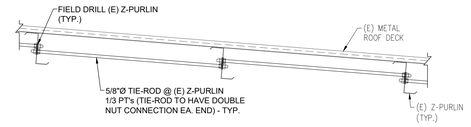
NOTES:
1.) NO GAPS ARE PERMITTED BETWEEN THE WALL STUDS AND THE TOP AND BOTTOM TRACK.
2.) NO GAPS PERMITTED BETWEEN THE WALL STUDS AND THE BOTTOM TRACK

SECTION 2 S3.00
SCALE: 3/4" = 1'-0"



NOTES:
1.) NO GAPS ARE PERMITTED BETWEEN THE WALL STUDS AND THE TOP AND BOTTOM TRACK.
2.) NO GAPS PERMITTED BETWEEN THE WALL STUDS AND THE BOTTOM TRACK

SECTION 3 S3.00
SCALE: 3/4" = 1'-0"



TYPICAL TIE-ROD CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

Tecton ARCHITECTS

JSE
Johnson Structural Engineering, Inc.
101 Huntoon Memorial Highway (Rt. 56)
Rochdale, Massachusetts 01542
phone: (508) 892-4884 fax: (508) 892-0477

Client/ Contractor
TOWN OF NORTH BROOKFIELD
215 NORTH MAIN STREET
NORTH BROOKFIELD, MA

Project
NORTH BROOKFIELD DPW
65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals
PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description

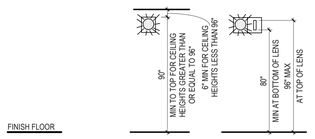
Drawing Title
ROOF FRAMING PLAN & SECTIONS

Project Manager:	RAJ	Project No:	NBR02AR.01
Project Architect:	-	Production Leader:	MLB
Project Designer:	TPA	Peer Reviewer:	-

Drawing Number
S3.00

FIXTURE HEIGHTS

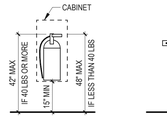
ALL REQUIREMENTS ARE BASED ON 521 CMR COMMONWEALTH OF MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND ADAAG.



INDIVIDUAL HORN DEVICE (NFPA 72)

COMBINATION HORN AND STROBE (NFPA 72)

AUDIBLE / VISUAL NOTIFICATION APPLIANCES

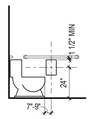


FIRE EXTINGUISHER AND CABINET (NFPA10 6.1.3)

COAT/ROBE HOOK FORWARD & PARALLEL (521 CMR 30.6.2 c)

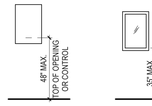
SURFACE MOUNTED PAPER TOWEL DISPENSER / HAND DRYER (521 CMR 30.12)

SOAP DISPENSER HAND SANITIZER DISPENSER (521 CMR 30.12)

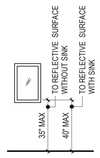


PROTRUDING DISPENSER BELOW GRAB BAR (521 CMR 30.7.6)

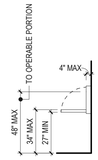
TOILET PAPER DISPENSER OUTLET LOCATION



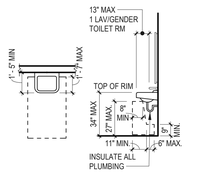
ACCESSIBLE CONTROLS OR SLOT (I.E. LIGHT, FIRE ALARM, PULL BOX, ETC.) (ADAAG 308) (521 CMR 6.00)



MIRROR (ADAAG 603.3) (521 CMR 30.11)



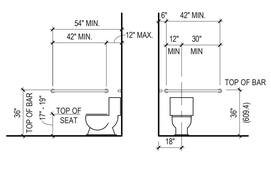
BABY CHANGING STATION (ADAAG 308) (521 CMR 6.00)



FRONT APPROACH PLAN (ADAAG 606) (521 CMR 30.9)

ELEVATION (ADAAG 306, 606) (521 CMR 30.9)

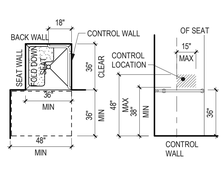
LAVATORY



SIDE GRAB BAR ELEVATION (ADAAG 604.5) (521 CMR 30.8)

HANDICAP TOILET REAR GRAB BAR ELEVATION (ADAAG 604.5) (521 CMR 30.8)

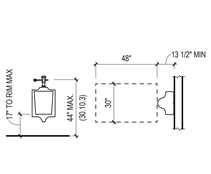
HANDICAP TOILET



PLAN (ADAAG 608) (521 CMR 31.7)

ELEVATION (ADAAG 608) (521 CMR 31.7)

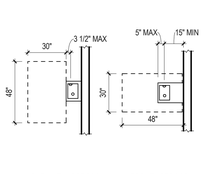
TRANSFER - TYPE SHOWER COMPARTMENT



ELEVATION (ADAAG 605.2) (521 CMR 30.10)

FRONT APPROACH PLAN (ADAAG 605) (521 CMR 30.10)

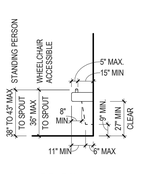
URINAL



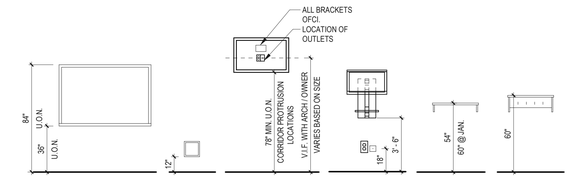
PARALLEL APPROACH (ADAAG 602.2) (521 CMR 36.2.2)

FRONT APPROACH (ADAAG 602.2) (521 CMR 36.2.1)

DRINKING FOUNTAIN



ELEVATION (ADAAG 602) (521 CMR 36.0)



TACKBOARD, MARKERBOARD OR CHALKBOARD

ACCESS DOOR

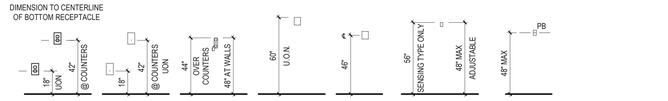
TV MONITOR

WALL MOUNTED COMPUTER

S.S. SHELF

S.S. UTILITY SHELF WITH MOP/BROWN HOLDERS

GENERAL



RECEPTACLE

DATA OUTLETS

PHONE

TV JACK, CABLE OUTLET, MONITOR OUTLET

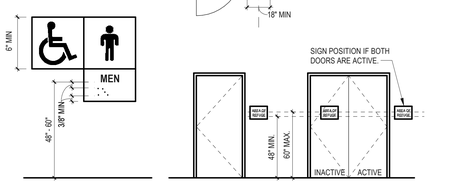
ELECTRICAL SWITCH, FIRE ALARM CONTROL PUSH PLATE

THERMOSTAT, HUMIDISTAT

PANIC BUTTON

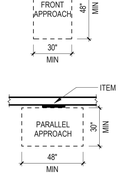
ELECTRICAL

EXTERIOR ELECTRICAL FIXTURE HEIGHTS TO BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH IN, UNLESS NOTED OTHERWISE.

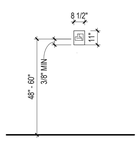


ALL GRAPHICS AND BRAILLE SHALL CONFORM TO ADAAG STANDARDS (ADAAG 703)

CLEAR SPACE AT DOOR SIGNAGE (ADAAG 703.4)



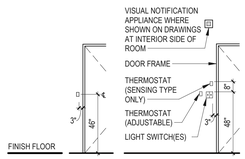
POSITION OF CLEAR FLOOR OR GROUND SPACE (ADAAG 305.5)



TYP. AREA MAPS AND EVACUATION ROUTE

SIGNAGE

ROOM SIGNS ARE REQUIRED AT EACH DOOR.

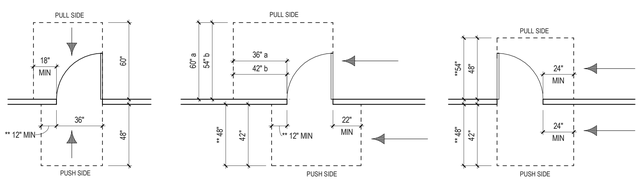


CARD READER AT DOOR, LATCH SIDE

TYPICAL ROOM DOOR

ELECTRICAL

MANEUVERING CLEARANCES FOR ALL ACCESSIBLE DOORS



FRONT APPROACH (ADAAG 404.2.4) (521 CMR 26.6)

HINGE SIDE APPROACH (ADAAG 404.2.4) (521 CMR 26.6)

LATCH SIDE APPROACH (ADAAG 404.2.4) (521 CMR 26.6)

GRAPHIC SYMBOLS

- BUILDING SECTION CALLOUT / SHEET WHERE SECTION IS SHOWN
- WALL SECTION CALLOUT / SHEET WHERE SECTION IS SHOWN
- DETAIL CALLOUT / SHEET WHERE DETAIL IS SHOWN
- CALLOUT NUMBER / SHEET WHERE CALLOUT IS SHOWN
- EXTERIOR ELEVATION / SHEET WHERE ELEVATION IS SHOWN
- INTERIOR ELEVATION / SHEET WHERE ELEVATION IS SHOWN
- NEW COLUMN GRIDS
- EXISTING COLUMN GRIDS
- ROOM TAG SYMBOL
- LEVEL LINE SYMBOL
- SPOT ELEVATION SYMBOL
- ACCESSIBILITY CLEARANCES: TURNING RADIUS
- ACCESSIBILITY CLEARANCES: CLEAR FLOOR SPACE
- REVISION SYMBOL

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

GENERAL INFORMATION

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

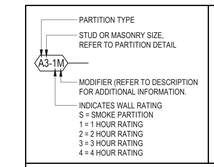
Drawing Number

A0.10

C:\Users\JohnV\Documents\NBR002AR.01_New DPW_R22-Arch_johnvitti.rvt
3/4/2024 10:07:28 AM

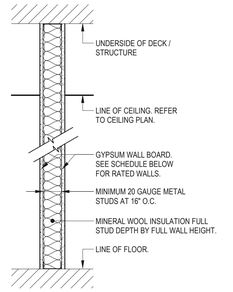
GENERAL NOTES - PARTITIONS

1. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS, OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. RATINGS SHALL BE IDENTIFIED IN ACCESSIBLE CONCEALED FLOORS, ABOVE ALL FLOOR-CEILINGS, AND IN ATTIC SPACES. ON EXPOSED FINISHED WALLS IN AREAS WITHOUT CEILINGS PLAQUE SIGNAGE SHALL BE USED. THE STENCIL AND/OR PLAQUE SHALL BE AFFIXED EVERY 30' HORIZONTAL AND WITHIN 15' OF THE END OF EACH WALL. LETTERING SHALL BE NOT LESS THAN 3" IN HEIGHT WITH A MINIMUM OF 3/8" STROKE IN A CONTRASTING COLOR. SIGN WORDING DESIGNATING THE REQUIRED RATINGS, AND SIGN COLOR, SHALL BE REVIEWED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION; (INSERT THE APPROPRIATE RESISTIVE RATING NUMERAL INTO THE FOLLOWING): "# HOUR FIRE BARRIER - PROTECT ALL OPENINGS" OR, "# MINUTE SMOKE BARRIER - PROTECT ALL OPENINGS" OR, "# HOUR FIRE/SMOKE BARRIER - PROTECT ALL OPENINGS".



MODIFIERS:
M = MOISTURE RESISTANT GYPSUM BOARD

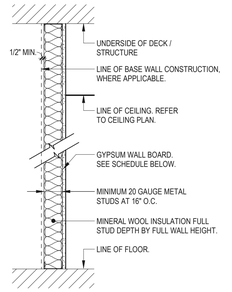
PARTITION TYPE KEY



TYPE A

FULL HEIGHT GYPSUM BOARD PARTITION

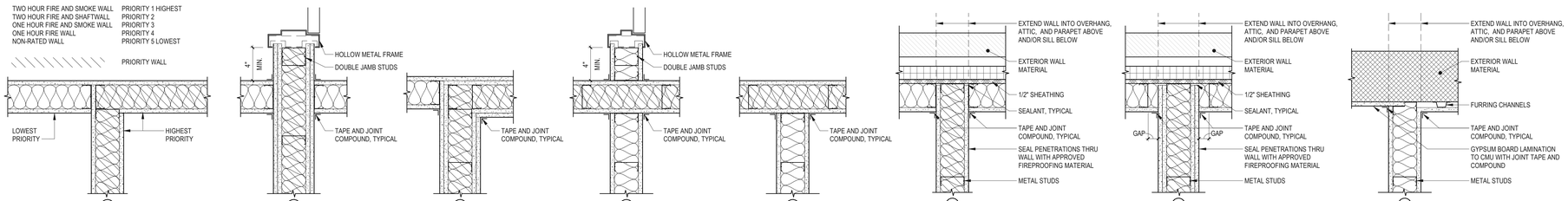
PARTITION TYPE	WALL THICKNESS	STUD SIZE	STC RATING	UL DESIGN #	DESCRIPTION
A3-D	4 7/8"	3 5/8"			



TYPE C

FULL HEIGHT SINGLE SIDED GYPSUM BOARD PARTITION

PARTITION TYPE	WALL THICKNESS	STUD SIZE	STC RATING	UL DESIGN #	DESCRIPTION



PRIORITY RATING LEGEND | FIRE WALL PLAN DETAIL | CORNER PLAN DETAIL | CORRIDOR PLAN DETAIL | CORRIDOR PLAN DETAIL | ONE HOUR EXTERIOR WALL | FIRE SMOKE EXTERIOR WALL | ONE HOUR EXTERIOR WALL

WALL INTERSECTION PRIORITY LEGEND

1 1/2" = 1'-0"

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

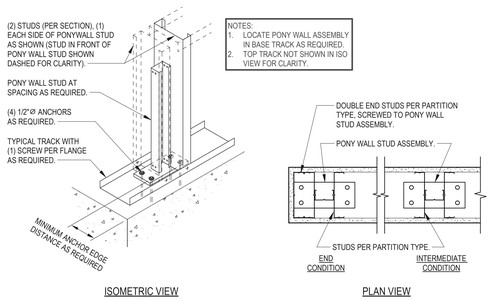
Drawing Title

PARTITION TYPES

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

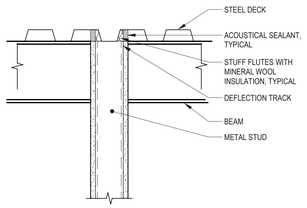
A0.20



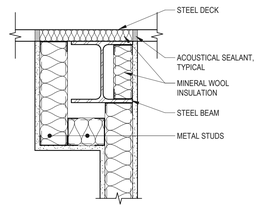
ISOMETRIC VIEW

PLAN VIEW

B12 LOW WALL BRACING DETAIL
NOT TO SCALE



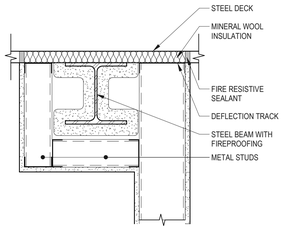
B6 HEAD DETAIL
NOT TO SCALE



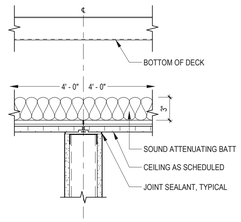
B4 HEAD DETAIL
NOT TO SCALE

PARTITION DETAIL NOTES

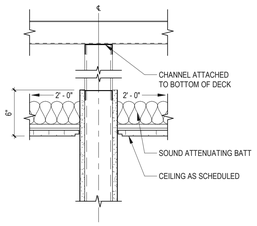
1. HEAD AND BASE DETAILS SHOWN WITHOUT INSULATION FOR CLARITY.
2. DETAILS REPRESENT 20 MINUTE TO 1 HOUR SMOKE/FIRE PROTECTION. ADDITIONAL LAYERS OF RATED GYPSUM BOARD SHALL BE APPLIED TO ACHIEVE HIGHER RATINGS PER UL DESIGN.
3. NOT ALL CONNECTIONS ARE SHOWN. CONTRACTORS SHALL PROVIDE DETAILS FOR ALL APPLICATIONS.
4. ADAPT HEAD DETAIL PER SELECTED MANUFACTURERS REQUIREMENTS
5. NON-RATED WALL SHALL USE ACOUSTICAL SEALANT IN LIEU OF FIRE RATED SEALANTS.
6. PROVIDE MINIMUM 20 GAUGE Z-CLIPS 2'-0" O.C. AT TOP OF RUNNER AT INTERFACE LOCATIONS WHERE FIRE PROOFING OCCURS.
7. WALL STUDS SHALL NOT BE FASTENED TO DEFLECTION TRACK. PROVIDE, AS REQUIRED, A ROW OF LATERAL BRACING WITHIN 12" OF THE TRACK TO PREVENT ROTATION AND LATERAL MOVEMENT OF STUDS, AS ENGINEERED BY MANUFACTURER / SUPPLIER AND UL DESIGN REQUIREMENTS.



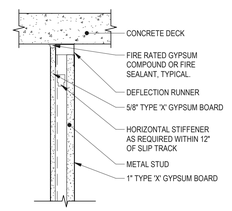
D10 HEAD DETAIL
NOT TO SCALE



D8 HEAD DETAIL
NOT TO SCALE

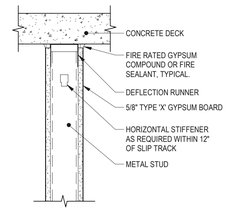


D6 HEAD DETAIL
NOT TO SCALE



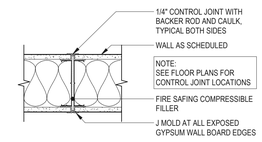
UL# HW-D-0119
SHAFT WALL - AGAINST CONCRETE DECK
1 HR RATING - 1" DEFLECTION

D4 HEAD DETAIL
NOT TO SCALE

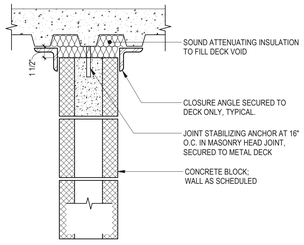


UL# HW-D-0060
AGAINST CONCRETE DECK
1 HR RATING - 1" DEFLECTION

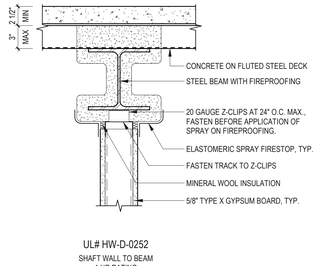
D2 HEAD DETAIL
NOT TO SCALE



F12 GYP BOARD CONTROL JOINT
NOT TO SCALE

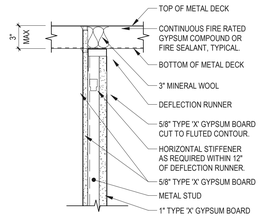


F8 HEAD DETAIL
NOT TO SCALE



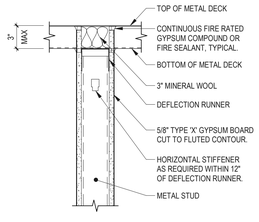
UL# HW-D-0252
SHAFT WALL TO BEAM
1 HR RATING

F6 HEAD DETAIL
NOT TO SCALE



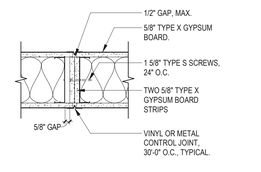
UL# HW-D-0119
SHAFT WALL - PERPENDICULAR TO METAL DECK
1 HR RATING - 1" DEFLECTION

F4 HEAD DETAIL
NOT TO SCALE

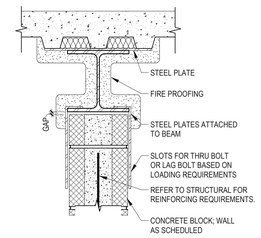


UL# HW-D-0060
PERPENDICULAR TO METAL DECK
1 HR RATING - 1" DEFLECTION

F2 HEAD DETAIL
NOT TO SCALE

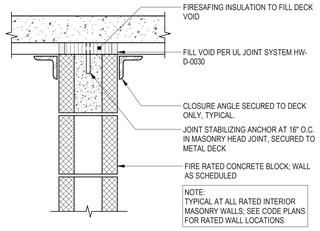


H12 Control Joint - 1 Hour
NOT TO SCALE

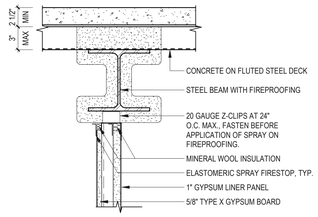


RATED WALL

H10 HEAD DETAIL
NOT TO SCALE

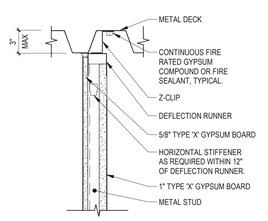


H8 HEAD DETAIL
NOT TO SCALE



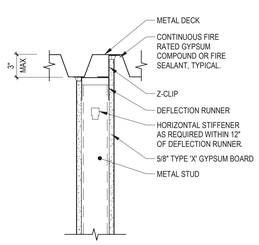
UL# HW-D-0642
SHAFT WALL TO BEAM
1 HR RATING

H6 HEAD DETAIL
NOT TO SCALE



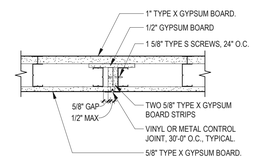
UL# HW-D-0119
SHAFT WALL - PARALLEL TO METAL DECK
1 HR RATING - 1" DEFLECTION

H4 HEAD DETAIL
NOT TO SCALE

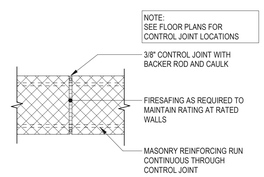


UL# HW-D-0060
PARALLEL TO METAL DECK
1 HR RATING - 1" DEFLECTION

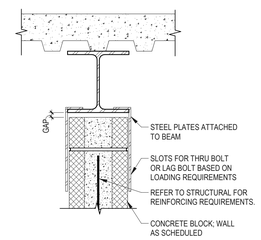
H2 HEAD DETAIL
NOT TO SCALE



J12 Control Joint Shaft Wall- 1 Hour
NOT TO SCALE

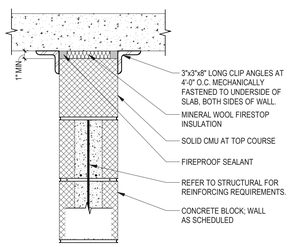


K12 TYP MASONRY CONTROL JOINT
NOT TO SCALE

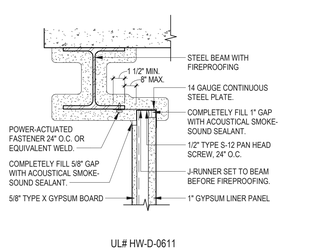


NON-RATED / NON SOUND WALL

K10 HEAD DETAIL
NOT TO SCALE

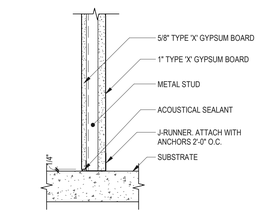


K8 HEAD DETAIL
NOT TO SCALE



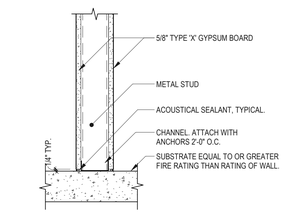
UL# HW-D-0611
SHAFT WALL - OFFSET FROM BEAM
1 HR RATING

K6 HEAD DETAIL
NOT TO SCALE



UL # U469
SHAFT WALL

K4 BASE DETAIL
NOT TO SCALE



UL # U465
SMOKE AND 1 HR PARTITION

K2 BASE DETAIL
NOT TO SCALE

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

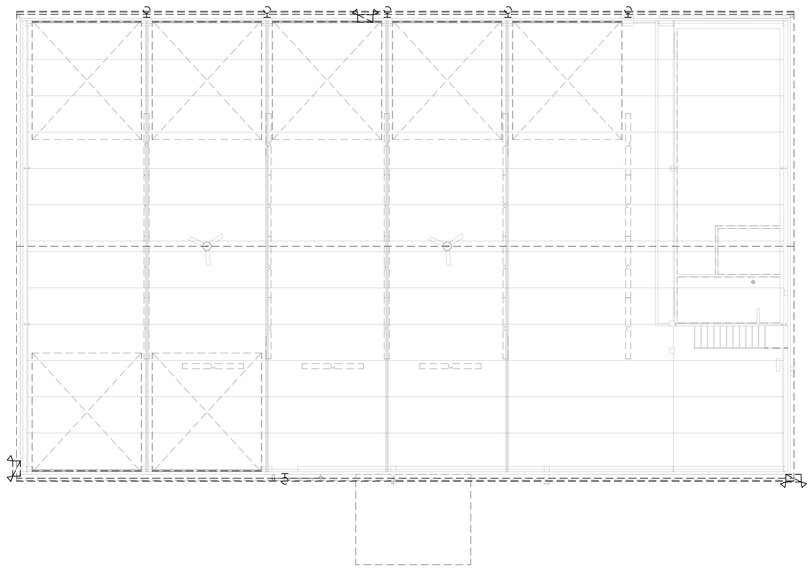
Drawing Title

PARTITION DETAILS

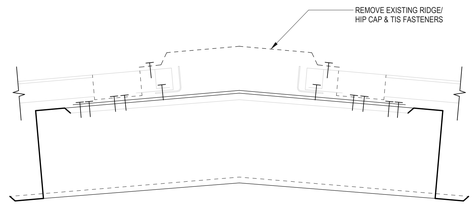
Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

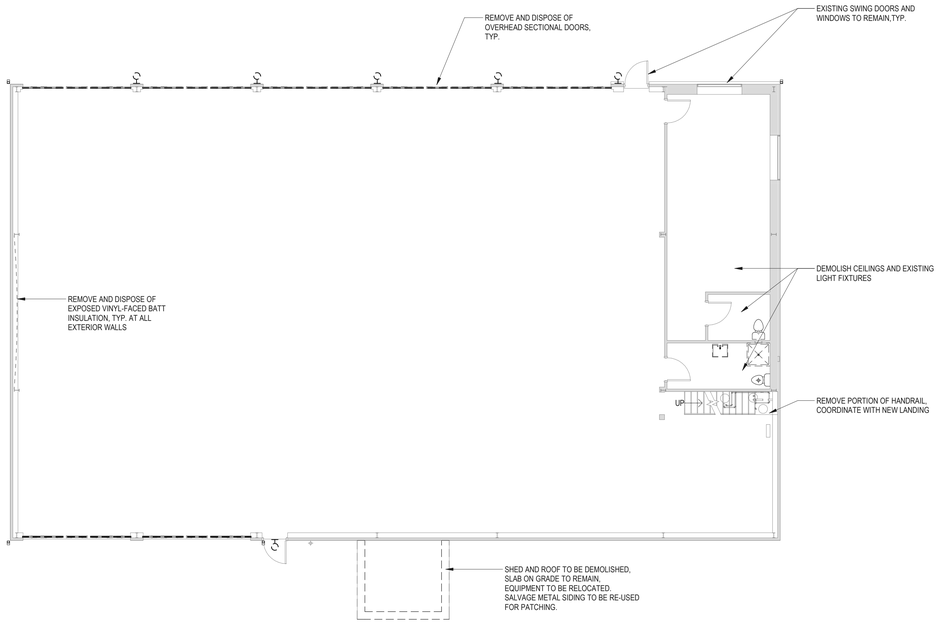
A0.21



E12 ROOF DEMOLITION PLAN
1/8" = 1'-0"



C6 ROOF RIDGE DETAIL DEMO
3" = 1'-0"



K12 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES - DEMOLITION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL, INCLUDING ALL COSTS FOR CARRYING AND DUMPING, OF ALL MATERIAL DEMOLISHED FROM THE PROJECT. THE CONTRACTOR SHALL PROVIDE OWNER WITH FIRST RIGHTS TO ALL MATERIALS, INCLUDING DOORS, HARDWARE, WINDOWS, PLUMBING FIXTURES, ETC., BEFORE REMOVING FROM SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR ALL EXISTING, TO REMAIN AREAS AND SURFACES AS NOTED AND/OR SHOWN. THIS INCLUDES ALL WORK NECESSARY TO READY SURFACES FOR NEW FINISH (N.I.C.) TO FOLLOW IN CONSTRUCTION PHASE. MATCH ALL ADJACENT MATERIALS WHERE PATCHING OCCURS.
3. ANY AND ALL PLUMBING FIXTURES/ACCESSORIES SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY RELATED PIPING WHICH IS BEING ABANDONED SHALL BE REMOVED AND CAPPED TO NEAREST TERMINATION POINT. ALL RELATED WORK REQUIRED IN ADJACENT WALLS, FLOORS BELOW, FLOORS ABOVE OR ON THE EFFECTED FLOOR ITSELF SHALL BE PATCHED AND PREPPED FOR NEW FINISH.
4. ALL WALLS SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY WALL OR SURFACE BEING WORKED ON SHALL BE PATCHED AND REPAIRED WITH A COMPLETE FINISH TO THE NEAREST CORNER, CHANGE OF PLANE OR OTHER JUNCTURE WHICH ALLOWS FOR A SMOOTH AND CLEAN TRANSITION FROM THE NEWLY FINISHED SURFACE TO THE SURROUNDING EXISTING SURFACES (THE INTENT IS TO AVOID THE APPEARANCE OF A PATCHED CONDITION).
5. UNLESS NOTED OTHERWISE, ALL FLOOR SURFACES/ FINISHES AND FLOORING BASE TRIM ARE TO BE REMOVED TO FLOOR SLAB AND DISCARDED. CLEAN AND PREPARE CONCRETE AS NECESSARY FOR REFINISHING. THIS DEMO AND PREP PERTAINS TO ELEVATOR LOBBY SPACES AS WELL.
6. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLITION WORK. MECHANICAL, ELECTRICAL AND OR OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PERFORMED WHETHER SO NOTED OR NOT. PROTECT ALL ITEMS INTENDED FOR SALVAGE AND REUSE OR SCHEDULED TO REMAIN.
7. WHEN WALLS, COLUMNS, ROOF CONSTRUCTION, OR OTHER SUPPORTING AND / OR BRACING ELEMENTS ARE SCHEDULED FOR DEMOLITION, TEMPORARY STRUCTURAL SUPPORTS AND BRACING FOR THE ADJACENT CONSTRUCTION SHALL BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT STRUCTURES ARE IN PLACE AND ABLE TO SUPPORT THE IMPOSED LOADS.
8. PRESERVE AND PROTECT ALL FLOOR, WALL, AND CEILING FINISHES TO REMAIN WHERE POSSIBLE IN AREAS OF DEMOLITION. PATCH TO MATCH AS REQUIRED.
9. REPAIR ALL REMAINING WALLS, CEILINGS AND FLOOR SURFACES WHERE DEMOLITION OCCURS. THIS INCLUDES MEP AND OTHER NECESSARY WORK IN CEILINGS AND WALLS AT FLOOR BELOW. SEE MEP DRAWINGS FOR PROBABLE EXTENT.
10. ALL EQUIPMENT OR FURNITURE SHOWN DASHED IS TO BE REMOVED AND STOCKPILED FOR OWNER REUSE OR STORAGE. SEE PROPOSED PLANS AND VERIFY WITH OWNER FOR ANY LAST MINUTE CHANGES.
11. REFER TO MEP PLANS AND OR SPECS FOR SCOPE OF ALL MEP DEMOLITION.
12. ALL DOORS AND WINDOWS SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, INCLUDING FRAMES AND HARDWARE EXCEPT WHERE NOTED OTHERWISE.

DEMOLITION LEGEND

EXISTING ITEMS — ITEMS TO BE REMOVED

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

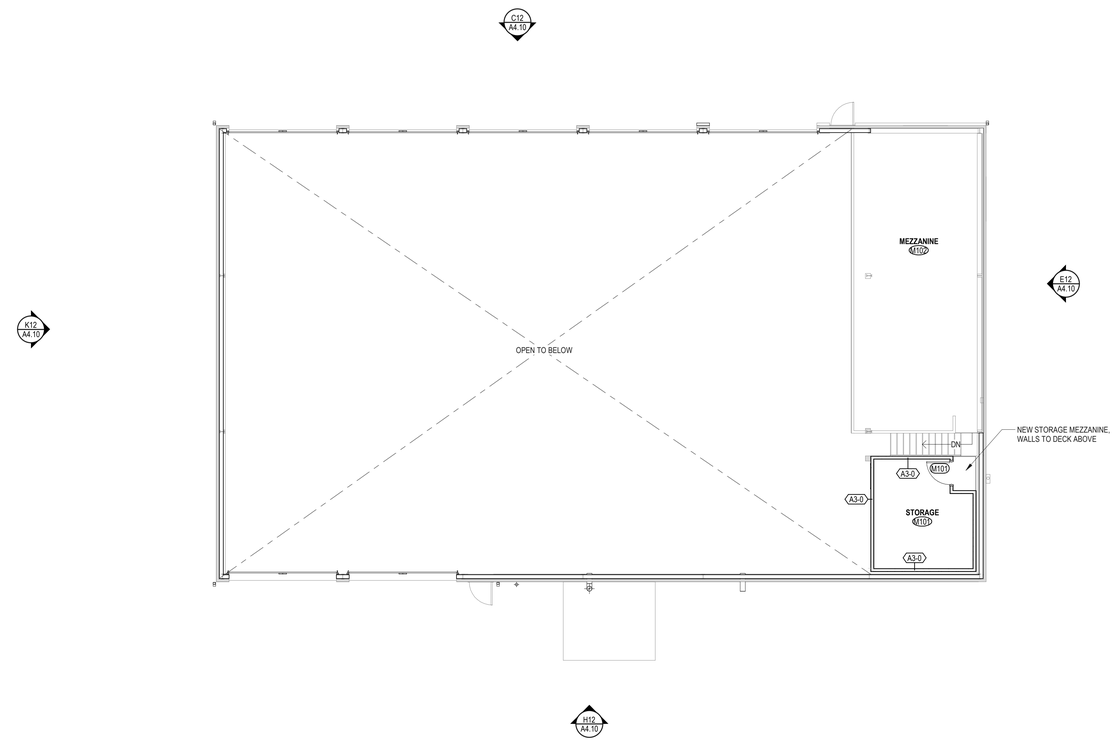
DEMOLITION FLOOR PLANS

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

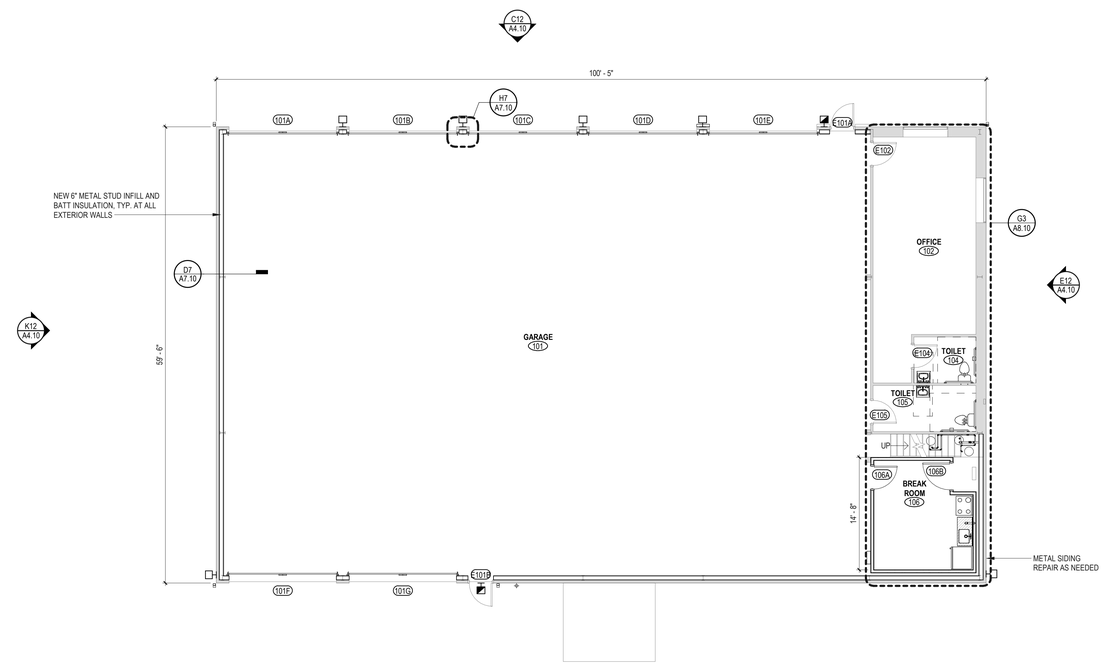
A1.10

3/4/2024 10:07:31 AM C:\Users\JohnV\Documents\NBR02AR.01_New DPW_R22-Arch_JohnVatti.rvt



E12 MEZZANINE CONSTRUCTION PLAN

1/8" = 1'-0"



K12 FIRST FLOOR CONSTRUCTION PLAN

1/8" = 1'-0"

GENERAL NOTES - CONSTRUCTION

1. ALL WALLS ARE TYPE A3-0 UNLESS OTHERWISE NOTED. PARTITION TYPES CONTINUE AROUND CORNERS UNLESS INDICATED OTHERWISE.
2. WHERE TWO DENOTED WALL TYPES COINCIDE, THE MOST STRINGENT OF BOTH WALL CONSTRUCTION DEFINITIONS APPLIES TO THAT WALL (ie. FIRE CODE GYPSUM, BATT INSULATION). WHERE A RATED CONSTRUCTION BEGINS/ TERMINATES AT AN EXISTING COLUMN ENCLOSURE OR NEW FURRED, NON-RATED ENCLOSURE, THE HIGHER RATING MUST BE PROVIDED. THE INTENT IS TO PROVIDE A COMPLETE ENVELOPE OF INTENDED DESIGN RATINGS.
3. PROVIDE SOLID WOOD BLOCKING FOR ALL INDICATED WALL HUNG EQUIPMENT.
4. FIRE SAFE ALL PENETRATIONS IN RATED WALL ASSEMBLIES. SEE TYPICAL RATED WALL PENETRATION DETAIL.
5. ALIGN FACE OF NEW FINISH WITH FACE OF EXISTING FINISH AT ALL GYPSUM BOARD INFILL CONSTRUCTION UNLESS OTHER WISE NOTED.
6. VERIFY LOCATION OF ALL ACCESS PANELS WITH MEP EQUIPMENT.
7. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ARCHITECT.
8. WHERE THE DRAWINGS AND SPECIFICATIONS CONFLICT THE MOST STRINGENT, GREATEST QUANTITY AND OR BEST QUALITY SHALL BE USED.
9. FIRE RATED PARTITIONS INDICATED ON THE FLOOR PLANS ARE COMPONENTS OF CONTINUOUS RATED ASSEMBLIES CONSISTING OF WALLS, FLOOR, DOORS, INTERIOR BORROWED LIGHTS, MECHANICAL PENETRATIONS AND CEILINGS. REFER TO PLANS AND SPECIFICATIONS FOR METHODS OR ACHIEVING THE NECESSARY RATINGS. WHERE THE SPECIFIC METHOD OF ACHIEVING THE RATING IS NOT INDICATED, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO BIDDING.
10. PATCH, REPAIR, AND REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK OR CUTTING TO ALIGN WITH EXISTING SURFACES SCHEDULED TO REMAIN OR NEW FINISHES SPECIFIED.
11. ALL EXISTING FINISHED REMAINING IN PLACE (I.E. CARPET, VCT, CEILINGS, ETC.) SHALL BE CLEANED UTILIZING EFFECTIVE CLEANING METHODS WHICH WILL PRODUCE THE MOST DESIRABLE RESULTS POSSIBLE.
12. WHERE DOORS IN METAL STUD PARTITIONS ARE NOT SPECIFICALLY LOCATED ON THE PLANS WITH DIMENSION STRINGS, PROVIDE A MINIMUM HINGE SIDE JAMB DIMENSION OF 6". WHERE DOORS APPEAR TO BE CENTERED WITHIN PARTITIONS, LOCATE THE DOOR IN THE CENTER OF THE PARTITION.
13. CAULK ALL JOINT OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND THE INTERSECTION IS EXPOSED TO VIEW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
14. ALL SITE ELEMENTS (e.g. FLAT WORK, LANDSCAPING, CONCRETE STAIRS, ETC.) ARE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR DESIGN AND CONSTRUCTION METHODS

CONSTRUCTION LEGEND

EXISTING ITEMS	NEW CONSTRUCTION
A3-0 PARTITION TAG	HATCH DENOTES MILLWORK
101 DOOR TAG	

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

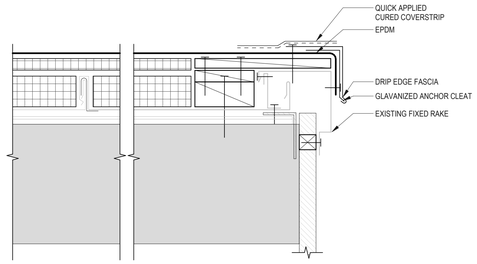
Drawing Title

CONSTRUCTION PLANS

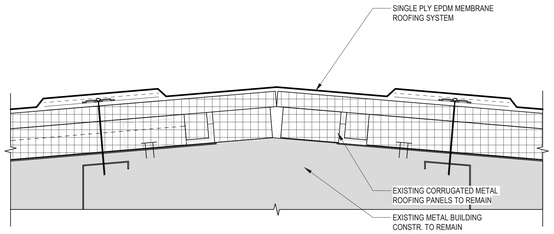
Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

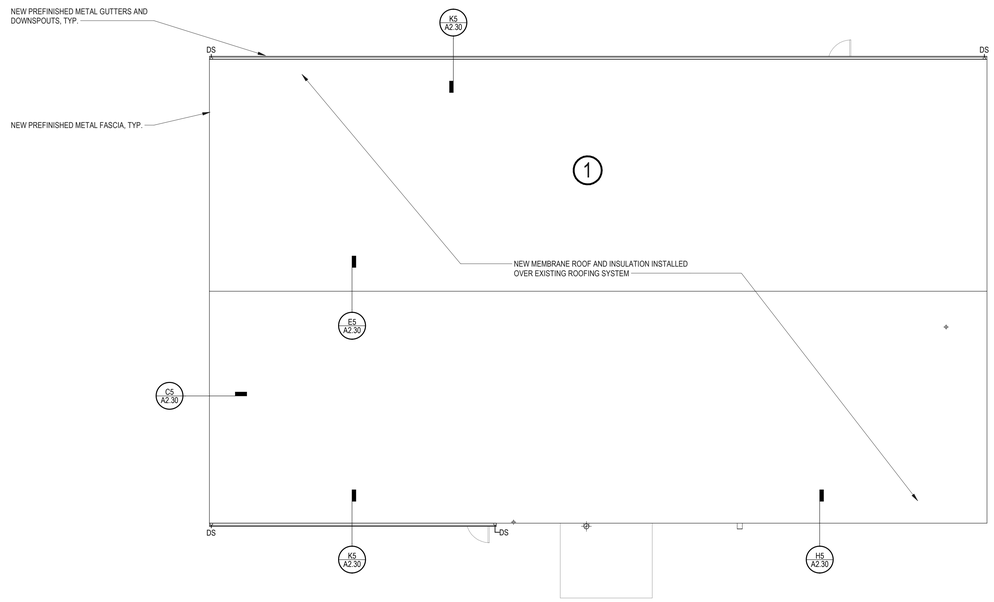
A2.10



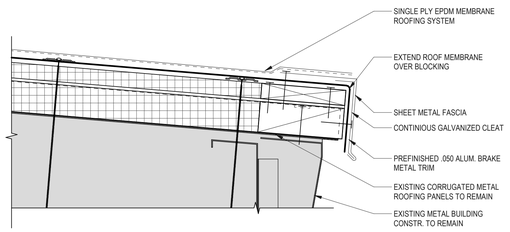
C5 ROOF RAKE DETAIL
3" = 1'-0"



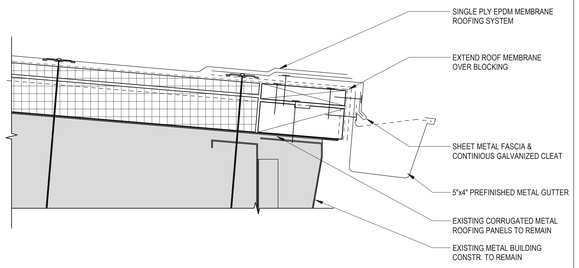
E5 ROOF RIDGE DETAIL
3" = 1'-0"



K12 ROOF PLAN
1/8" = 1'-0"



H5 ROOF EDGE DETAIL
3" = 1'-0"



K5 ROOF GUTTER DETAIL
3" = 1'-0"

GENERAL NOTES - CONSTRUCTION

1. ALL WALLS ARE TYPE A3-0 UNLESS OTHERWISE NOTED. PARTITION TYPES CONTINUE AROUND CORNERS UNLESS INDICATED OTHERWISE.
2. WHERE TWO DENOTED WALL TYPES COINCIDE, THE MOST STRINGENT OF BOTH WALL CONSTRUCTION DEFINITIONS APPLIES TO THAT WALL (ie. FIRE CODE GYPSUM, BATT INSULATION). WHERE A RATED CONSTRUCTION BEGINS/ TERMINATES AT AN EXISTING COLUMN ENCLOSURE OR NEW FURRED, NON-RATED ENCLOSURE, THE HIGHER RATING MUST BE PROVIDED. THE INTENT IS TO PROVIDE A COMPLETE ENVELOPE OF INTENDED DESIGN RATINGS.
3. PROVIDE SOLID WOOD BLOCKING FOR ALL INDICATED WALL HUNG EQUIPMENT.
4. FIRE SAFE ALL PENETRATIONS IN RATED WALL ASSEMBLIES. SEE TYPICAL RATED WALL PENETRATION DETAIL.
5. ALIGN FACE OF NEW FINISH WITH FACE OF EXISTING FINISH AT ALL GYPSUM BOARD INFILL CONSTRUCTION UNLESS OTHER WISE NOTED.
6. VERIFY LOCATION OF ALL ACCESS PANELS WITH MEP EQUIPMENT.
7. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ARCHITECT.
8. WHERE THE DRAWINGS AND SPECIFICATIONS CONFLICT THE MOST STRINGENT, GREATEST QUANTITY AND OR BEST QUALITY SHALL BE USED.
9. FIRE RATED PARTITIONS INDICATED ON THE FLOOR PLANS ARE COMPONENTS OF CONTINUOUS RATED ASSEMBLIES CONSISTING OF WALLS, FLOOR, DOORS, INTERIOR BORROWED LIGHTS, MECHANICAL PENETRATIONS AND CEILINGS. REFER TO PLANS AND SPECIFICATIONS FOR METHODS OR ACHIEVING THE NECESSARY RATINGS. WHERE THE SPECIFIC METHOD OF ACHIEVING THE RATING IS NOT INDICATED, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO BIDDING.
10. PATCH, REPAIR, AND REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK OR CUTTING TO ALIGN WITH EXISTING SURFACES SCHEDULED TO REMAIN OR NEW FINISHES SPECIFIED.
11. ALL EXISTING FINISHED REMAINING IN PLACE (I.E. CARPET, VCT, CEILINGS, ETC.) SHALL BE CLEANED UTILIZING EFFECTIVE CLEANING METHODS WHICH WILL PRODUCE THE MOST DESIRABLE RESULTS POSSIBLE.
12. WHERE DOORS IN METAL STUD PARTITIONS ARE NOT SPECIFICALLY LOCATED ON THE PLANS WITH DIMENSION STRINGS, PROVIDE A MINIMUM HINGE SIDE JAMB DIMENSION OF 6". WHERE DOORS APPEAR TO BE CENTERED WITHIN PARTITIONS, LOCATE THE DOOR IN THE CENTER OF THE PARTITION.
13. CAULK ALL JOINT OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND THE INTERSECTION IS EXPOSED TO VIEW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
14. ALL SITE ELEMENTS (e.g. FLAT WORK, LANDSCAPING, CONCRETE STAIRS, ETC.) ARE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR DESIGN AND CONSTRUCTION METHODS

CONSTRUCTION LEGEND

EXISTING ITEMS	NEW CONSTRUCTION
A3-0 PARTITION TAG	HATCH DENOTES MILLWORK
101 DOOR TAG	

ROOF CONSTRUCTION TYPES

NOTE: COMPONENTS ARE LISTED FROM EXTERIOR TO INTERIOR

ROOF CONSTRUCTION TYPE 1:

ASSEMBLY U-FACTOR: .052 (R-19 MIN.)

- MECHANICALLY-FASTENED MEMBRANE ROOFING SYSTEM ON
- 1.5" RIGID INSULATION BOARD ON
- 1.5" RIGID FLUTE-FILLER INSULATION ON
- EXISTING ROOF CONSTRUCTION

Tecton
ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

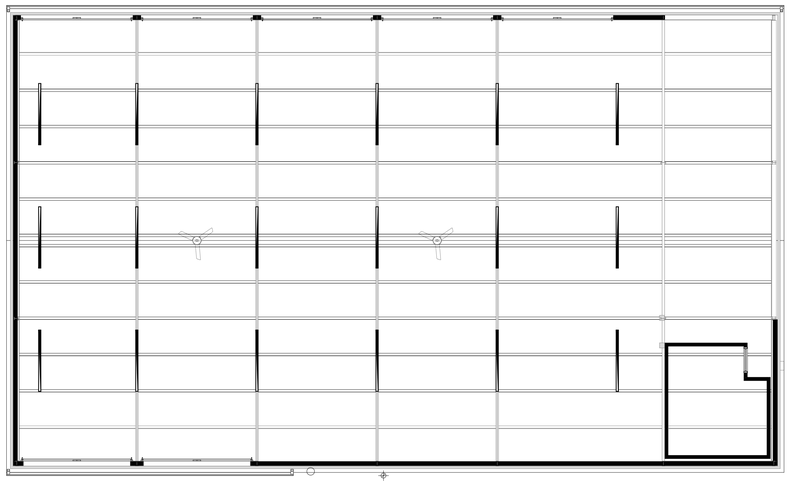
Drawing Title

ROOF PLAN & DETAILS

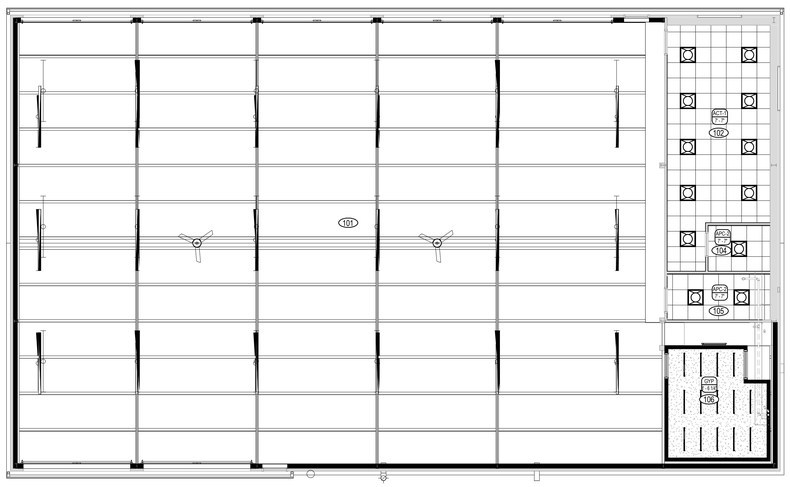
Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

A2.30



1 FP-02_RCP
1/8" = 1'-0"



K12 FP-01_RCP
1/8" = 1'-0"

GENERAL NOTES - CEILING

1. SEE WALL TYPES FOR INDICATION WHERE WALLS PENETRATE CEILING GRIDS.
2. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL CEILING GRIDS AND LIGHTING SHALL BE CENTERED, WITH BALANCED CUTS.
3. ALL CEILING ITEMS ARE TO BE CENTERED IN 2x4, 2x2 OR IMPLIED 2x2 CEILING TILE, WHICHEVER APPLIES. THIS PLAN IS INTENDED FOR COORDINATION AND LOCATION PURPOSES ONLY. SEE MEP FOR SPECIFIC CEILING MOUNTED ITEMS.
4. REFER TO DETAILS FOR CEILING SEISMIC RESTRAINT DETAIL.
5. REFER TO DETAILS FOR THE TYPICAL GYPSUM BOARD SOFFIT DETAIL
6. AT AREAS OF NEW CONSTRUCTION WHERE THE EXISTING CEILING IS TO REMAIN, THE CONTRACTOR WILL BE RESPONSIBLE FOR PATCHING AND REPAIRING THE EXISTING CEILING AS NECESSARY.

REFLECTED CEILING PLAN LEGEND

- EXISTING ITEMS
- NEW CONSTRUCTION
- ROOM NUMBER (NUM)
- CEILING TAG (CEILING TYPE / CEILING HEIGHT)
- ACOUSTICAL CEILING
- GYPSUM BOARD CEILING
- RECESSED 2x2 LIGHT FIXTURE
- SUSPENDED LIGHT
- DOWNLIGHT STRIP LIGHT

KEYNOTES - RCP FIXTURE HEIGHTS

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

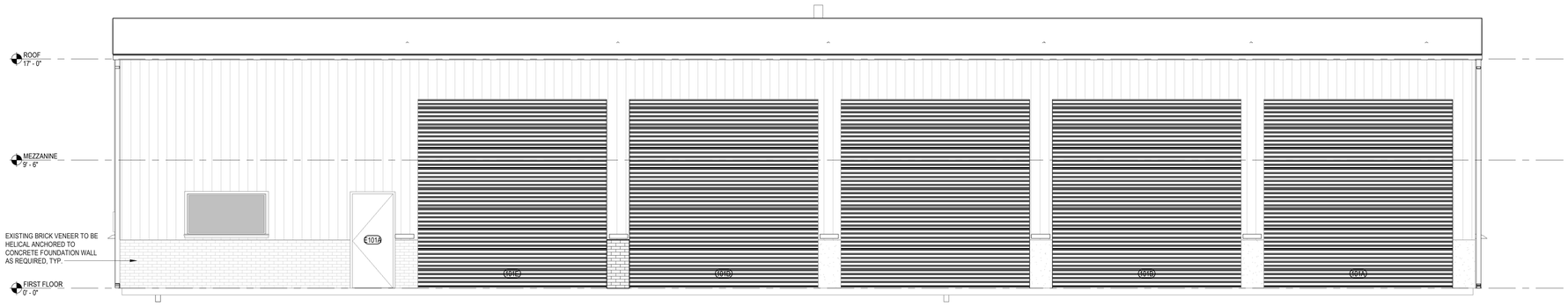
REFLECTED CEILING PLAN FIRST FLOOR

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

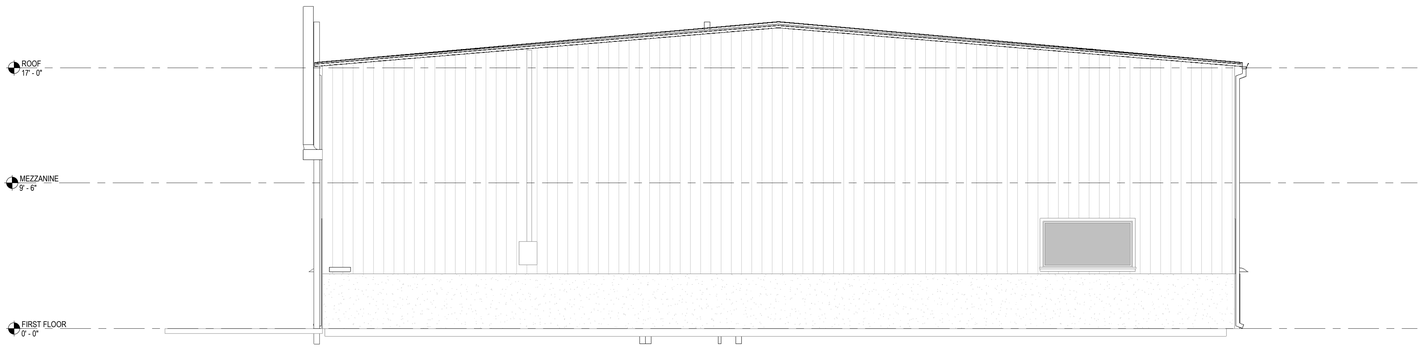
A3.10

3/4/2024 10:07:32 AM C:\Users\JohnV\Documents\NBR02AR.01_New DPW_R22-Arch_JohnVitti.rvt



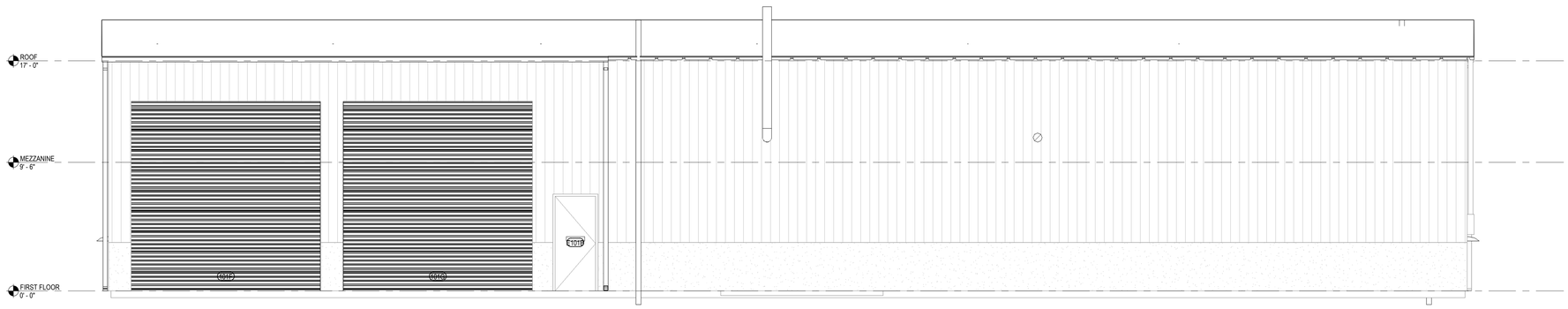
C12 NORTH ELEVATION

1/4" = 1'-0"



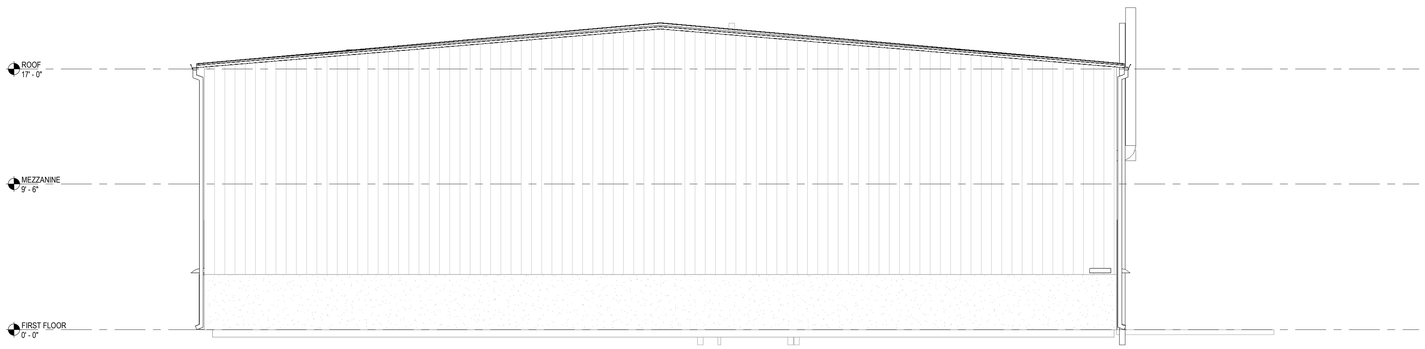
E12 EAST ELEVATION

1/4" = 1'-0"



H12 SOUTH ELEVATION

1/4" = 1'-0"



K12 WEST ELEVATION

1/4" = 1'-0"

EXTERIOR ELEVATION LEGEND

A3-0 PARTITION TAG	11 WINDOW TAG
101 DOOR TAG	GLAZING TAG
CJ CONTROL JOINT	

MATERIALS

BRICK	GLASS
{PLACEHOLDER}	{PLACEHOLDER}

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

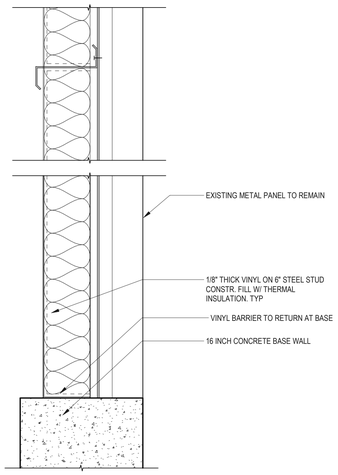
EXTERIOR ELEVATIONS

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

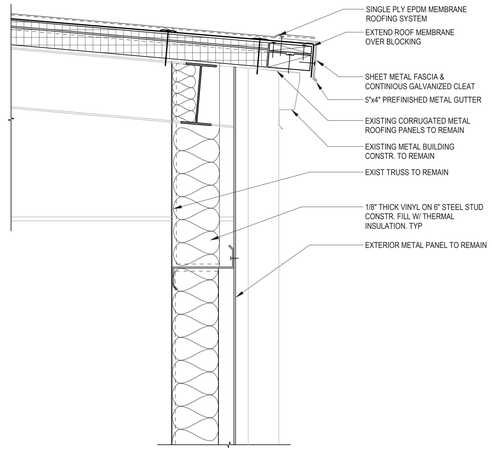
Drawing Number

A4.10

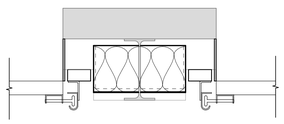
C:\Users\JohnV\Documents\NBR02AR.01_New DPW_R22-Arch_JohnVitti.rvt
3/4/2024 10:08:22 AM



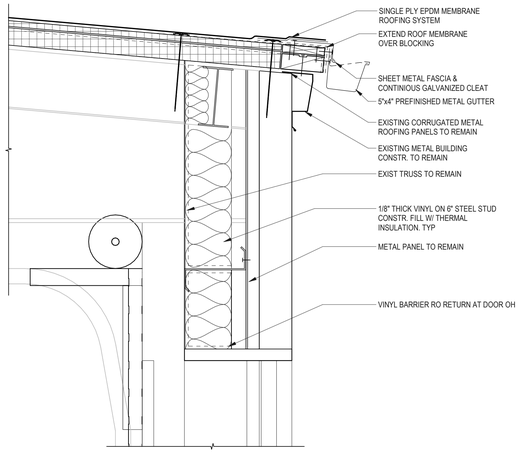
D7 BASE WALL DETAIL
1 1/2" = 1'-0"



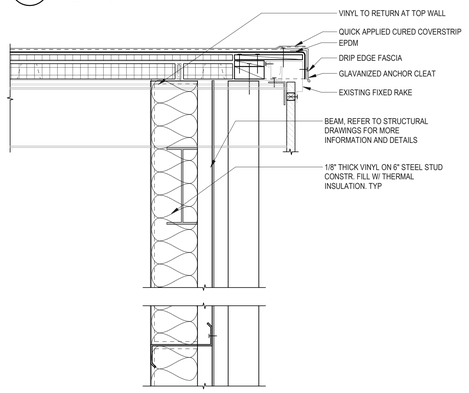
D4 WALL & ROOF DETAIL
1 1/2" = 1'-0"



H7 WALL & DOOR DETAIL
1 1/2" = 1'-0"



G4 WALL & ROOF GUTTER DETAIL
1 1/2" = 1'-0"



K4 WALL DETAIL / ROOF
1 1/2" = 1'-0"

C:\Users\JohnV\Documents\NBR02AR.01_New DPW_R22-Arch_johnvitti.rvt
3/4/2024 10:08:23 AM

Tecton
ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

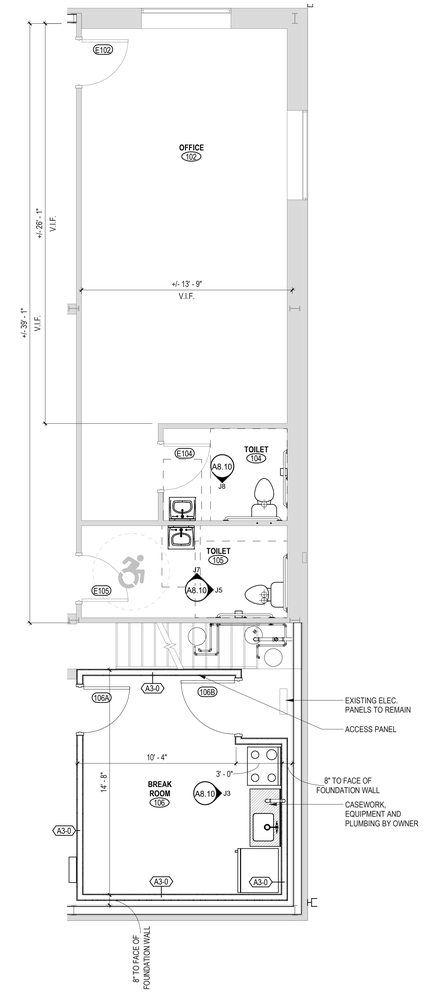
Drawing Title

PLAN AND SECTIONAL DETAILS

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

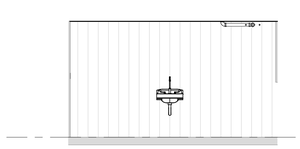
Drawing Number

A7.10

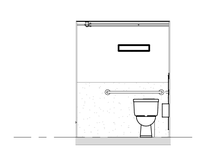


G3 OFFICE/BREAK ROOM ENLARGED PLAN
1/4" = 1'-0"

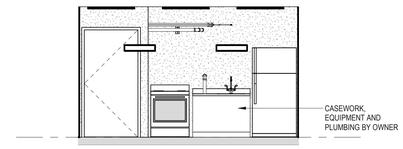
J8 TOILET 104 - S
1/4" = 1'-0"



J7 TOILET 105 - N
1/4" = 1'-0"



J5 TOILET 105 - E
1/4" = 1'-0"



J3 BREAK ROOM - E
1/4" = 1'-0"

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

ENLARGED PLAN AND INTERIOR ELEVATIONS

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

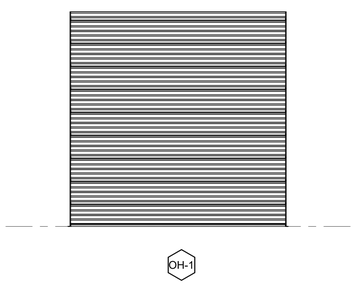
A8.10

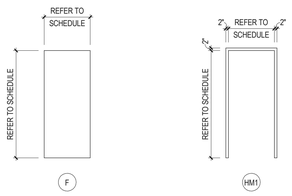
DOOR AND FRAME SCHEDULE

ROOM NAME	DOOR NUMBER	RATINGS			DOOR										FRAME			HARDWARE				DOOR NUMBER	REMARKS
					SIZE					DESCRIPTION						DESCRIPTION							
		FIRE RATING	DOOR LABEL	STC RATING	LEAF QUANTITY	OPENING WIDTH	WIDTH - LEAF 1	WIDTH - LEAF 2	HEIGHT	TYPE - PANEL 1	TYPE - PANEL 2	MATERIAL	FINISH	UNDERCUT	INSULATED	TYPE	MATERIAL	FINISH	LOCKSET / LATCHSET	CLOSER	MISC.	THRESHOLD		
FIRST FLOOR																							
GARAGE	101A					14' - 0"			14' - 0"						X								101A	
GARAGE	101B					14' - 0"			14' - 0"						X								101B	
GARAGE	101C					14' - 0"			14' - 0"						X								101C	
GARAGE	101D					14' - 0"			14' - 0"						X								101D	
GARAGE	101E					14' - 0"			14' - 0"						X								101E	
GARAGE	101F					14' - 0"			14' - 0"						X								101F	
GARAGE	101G					14' - 0"			14' - 0"						X								101G	
BREAK ROOM	106A				1	3' - 0"	3' - 0"		7' - 0"	F		HM	PT	1/4"		HM1	HM	PT						106A	
BREAK ROOM	106B				1	3' - 6"	3' - 6"		7' - 0"	F		HM	PT	1/4"		HM1	HM	PT						106B	
MEZZANINE																								
STORAGE	M101				1	3' - 0"	3' - 0"		7' - 0"	F				1/4"		HM1	HM	PT						M101	

EXISTING DOOR SCHEDULE

ROOM NAME	DOOR NUMBER	FIRE RATING	EXISTING DOOR SIZE	NEW PANEL TYPE	NEW PANEL MATERIAL	HW SET	AAOS Project HW Set	REMARKS
FIRST FLOOR								
GARAGE	E101A							EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN
GARAGE	E101B							EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN
GARAGE	E101D							
OFFICE	E102							EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN
TOILET	E104							EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN
TOILET	E105							HARDWARE TO BE REPLACED





DOOR TYPES

HOLLOW METAL FRAME TYPES

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

DOOR SCHEDULES, ELEVATIONS AND DETAILS

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

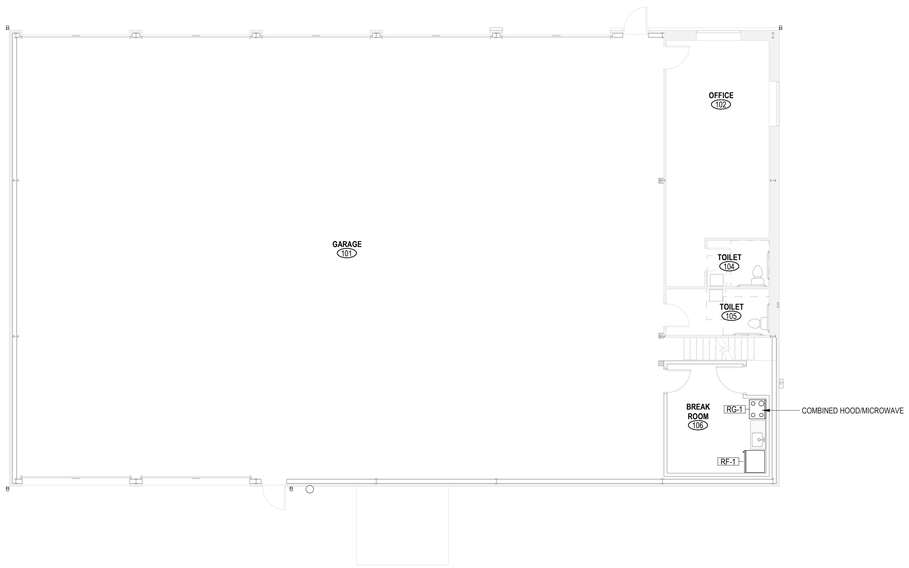
Drawing Number

A9.10

3/4/2024 10:08:24 AM C:\Users\JohnV\Documents\NBR02AR.01_New DPW_R22-Arch_JohnVatti.rvt

EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FURNISH / INSTALL: OWNER FURNISH	CONTRACTOR FURNISH	OWNER INSTALL	CONTRACTOR INSTALL	SPEC SECTION
RF-1	REFRIDGERATOR	•		•		
RG-1	RANGE	•		•		



K12 FIRST FLOOR EQUIPMENT PLAN
1/8" = 1'-0"

Tecton ARCHITECTS

Client/ Contractor

TOWN OF NORTH BROOKFIELD

215 NORTH MAIN STREET,
NORTH BROOKFIELD, MA

Project

NORTH BROOKFIELD DPW

65 DONOVAN ROAD
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

PROGRESS SET
NOT FOR CONSTRUCTION

Issues / Revisions

No.	Date	Description
	09/29/2023	SCHEMATIC DESIGN

Drawing Title

EQUIPMENT PLAN AND SCHEDULE

Project Manager:	JM	Project No:	NBR02AR.01
Project Architect:	JV	Production Leader:	SB
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

A10.10

GENERAL NOTES

GENERAL

1. GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO DRAWINGS WITHIN DIVISION 22.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR PLUMBING WORK.
4. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
5. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
6. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL TRADES INVOLVED.
7. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. SUBMIT ACCESS PANEL LOCATIONS FOR REVIEW.
8. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, CLEAN OUTS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
9. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
10. IN COMPLIANCE WITH THE FEDERAL SAFE DRINKING WATER ACT (SDWA), THE CONTRACTOR SHALL NOT PROVIDE ANY COMPONENTS IN THE DOMESTIC WATER SYSTEM THAT CONTAIN MORE THAN 0.25% LEAD ON ANY WETTED PARTS. THE CONTRACTOR SHALL PROVIDE THE LEAD FREE EQUIVALENT OF ANY EQUIPMENT SPECIFIED AND PROVIDE A LETTER CERTIFYING THAT ALL PLUMBING PRODUCTS PROVIDED MEET THIS REGULATION.
11. IN THE EVENT THAT THERE ARE DISCREPANCIES BETWEEN PIPE SIZES SHOWN ON THE PLANS, DETAILS AND DIAGRAMS, THE LARGER PIPE SIZE SHALL BE PROVIDED.

PIPING SYSTEM SPECIFIC NOTES:

1. PROVIDE ESCUTCHEONS AT EXPOSED PIPE PENETRATIONS OF CEILINGS AND WALLS
2. TOPS OF FLOOR DRAINS SHALL BE FLUSH WITH FINISHED FLOOR.
3. PROVIDE SHUT-OFF VALVES ON BRANCH PIPING AND ON SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT.
4. SUPPORT PIPING FROM STRUCTURE. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
5. PROVIDE DRAIN WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP AND CHAIN AT DOMESTIC WATER LOW POINTS AND PITCH PIPING TO DRAIN.
6. PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF STACKS.
7. PLUMBING PIPING AND DRAINS SHALL BE PROTECTED FROM DEBRIS AND KEPT CLEAR OF BLOCKAGE DURING CONSTRUCTION.
8. PROVIDE DIELECTRIC FITTINGS WHEN JOINING PIPES OF DISSIMILAR METALS.
9. PROVIDE OFFSETS IN PIPING AROUND OBSTRUCTIONS.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS INCLUDING BOTH EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUITS AND OTHER PENETRATING ITEMS. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLUMBING DEMOLITION GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN (UNLESS INDICATED TO REMAIN).
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
10. ALL SERVICE INTERUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER A MINIMUM OF 5 DAYS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
11. THE PLUMBING CONTRACTOR SHALL COORDINATE THEIR DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
12. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR RETURNED TO OWNER AT OWNERS REQUEST OR AS INDICATED ON DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.

MECHANICAL DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	DEMOLISH ALL FIXTURES AND PIPING WITHIN SCOPE
	EXISTING DUCTWORK AND/OR PIPING
	DEMOLISH EXISTING PIPING
RE	RELOCATE EXISTING
ETR	EXISTING TO REMAIN
	CONNECT TO EXISTING

PLUMBING PIPING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
SAN	SANITARY DRAIN/WASTE ABOVE FLOOR
SAN	SANITARY DRAIN/WASTE BELOW FLOOR
V	VENT
IW	INDIRECT WASTE
PST	STORM ABOVE FLOOR (PRIMARY)
PST	STORM BURIED (PRIMARY)
SST	STORM ABOVE FLOOR (SECONDARY)
G	NATURAL GAS
GW	GREASE WASTE
GW	GREASE WASTE BELOW FLOOR
TW	TEMPERED WATER (65°F)
	PIPE RISE
	PIPE DROP
	PIPE TEE TOWARDS (UP IN PLAN)
	PIPE TEE AWAY (DOWN IN PLAN)
	PIPE DROP AND RUN
	DIRECTION OF FLOW
	PIPE TRAP
	DIRT LEG
CO	CLEANOUT
	UNION OR FLANGE
	BLIND FLANGE
	END CAP
	REDUCER

GENERAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DSN	DOWN SPOUT NOZZLE
DW	DIRECT WASTE
ELEC	ELECTRICAL
ET	EXPANSION TANK
EWS	EMERGENCY EYEWASH/SHOWER
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FGCO	FINISHED GRADE CLEANOUT
FLA	FULL LOAD AMPS
FLD	FLOOR DRAIN
FS	FLOOR SINK
FT	FEET
FT WG	FEET HEAD
G	GAS
GALL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSV	GAS SOLENOID VALVE
GW	GREASE WASTE
GV	GAS VENT
HB	HOSE BIB
HW	HOT WATER
HD	HEAD
HP	HORSEPOWER
HZ	HERTZ
HWR	HOT WATER RECIRCULATION
INT	INTERCEPTOR
INV ELEV	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OW	OIL WASTE
PCD	PUMPED CONDENSATE DRAIN
PLBG	PLUMBING
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RTU	ROOFTOP UNIT
SAN	SANITARY
SQFT / SF	SQUARE FEET
SS	SOIL STACK
ST	STORM
SST	SECONDARY STORM
TEMP	TEMPERATURE
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WS	WASTE STACK
W&V	WASTE AND VENT

VALVE AND SYMBOL LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	BALL VALVE WITH HOSE BIBB, CAP & CHAIN (DRAIN VALVES)
	BUTTERFLY VALVE
	GLOBE VALVE
	GATE VALVE
	OS&Y VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	Y-PATTERN STRAINER
	SOLENOID VALVE
	AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	COMBINATION SHUT OFF/BALANCING VALVE (CIRCUIT SETTER)
	SAFETY RELIEF VALVE
	PRESSURE GAUGE
	THERMOMETER
	DOUBLE CHECK VALVE ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
	GATE VALVE IN ROAD CURB BOX
	BACKWATER VALVE
	PUMP
M	WATER METER
	FLOOR DRAIN / FLOOR SINK / AREA DRAIN WITH PIPE TRAP
	ROOF / OVERFLOW DRAIN
TP	TRAP PRIMER
GM	GAS METER
	WATER HAMMER ARRESTOR
	VENT THRU ROOF
	ADA ACCESSIBLE FIXTURE

Tecton ARCHITECTS

CES Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

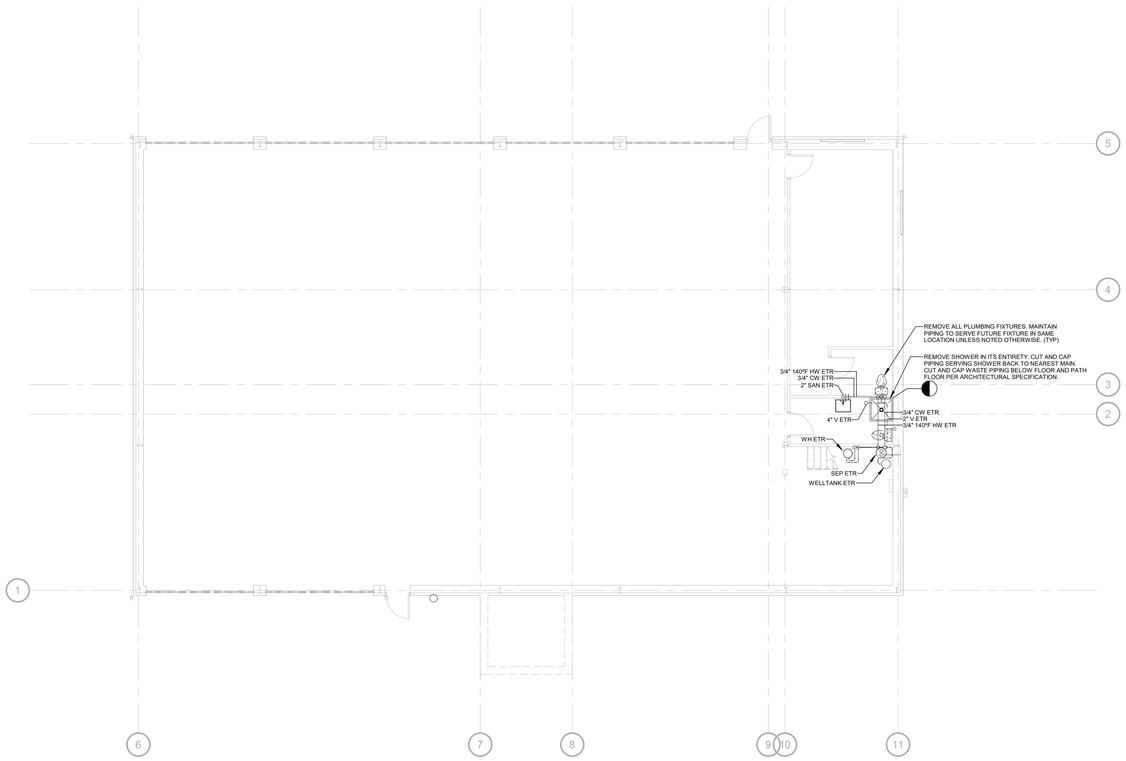
Drawing Title

PLUMBING ABBREVIATIONS, NOTES AND SYMBOLS

Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

P0.00



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

2/26/2024 2:59:27 PM C:\Users\rheinrich\Documents\R22.2023447-MEP Central - DWP - North Brookfield Fire Station_rheinrich.rvt

Tecton ARCHITECTS

Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

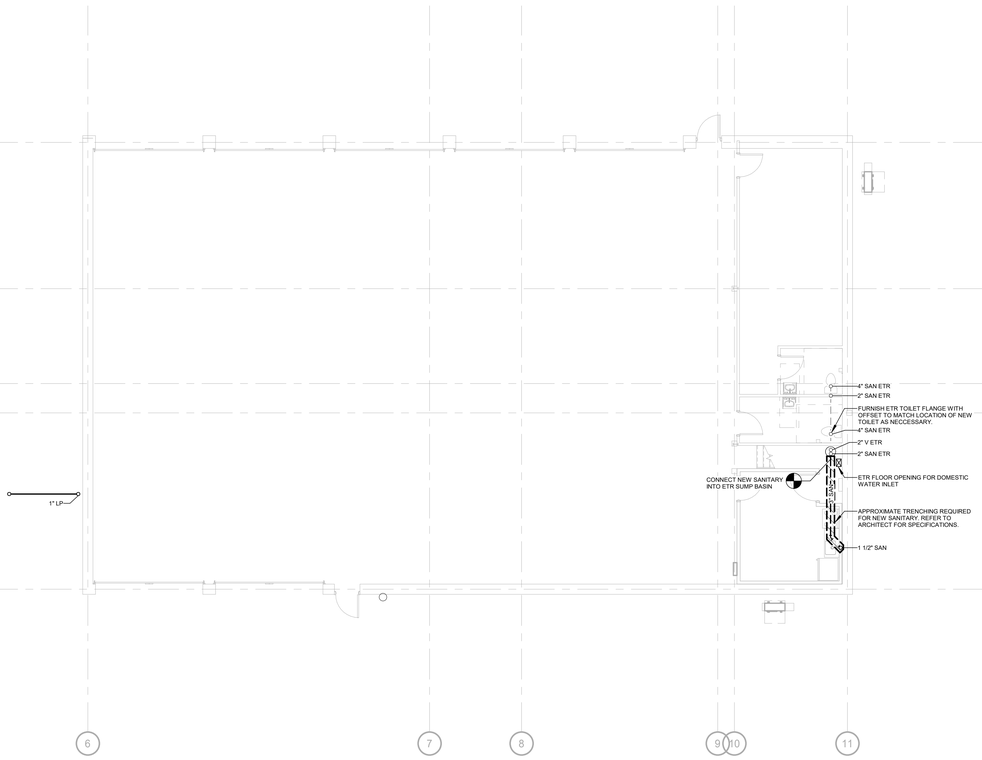
Drawing Title

PLUMBING DEMOLITION FLOOR PLAN

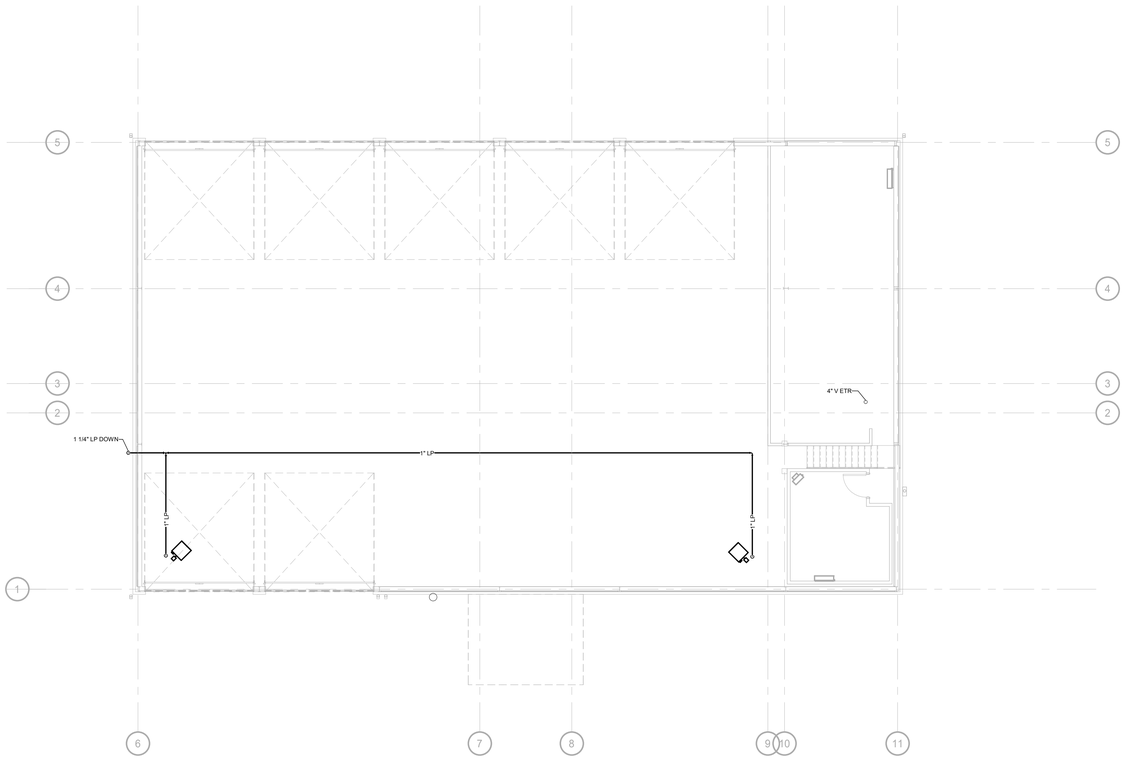
Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

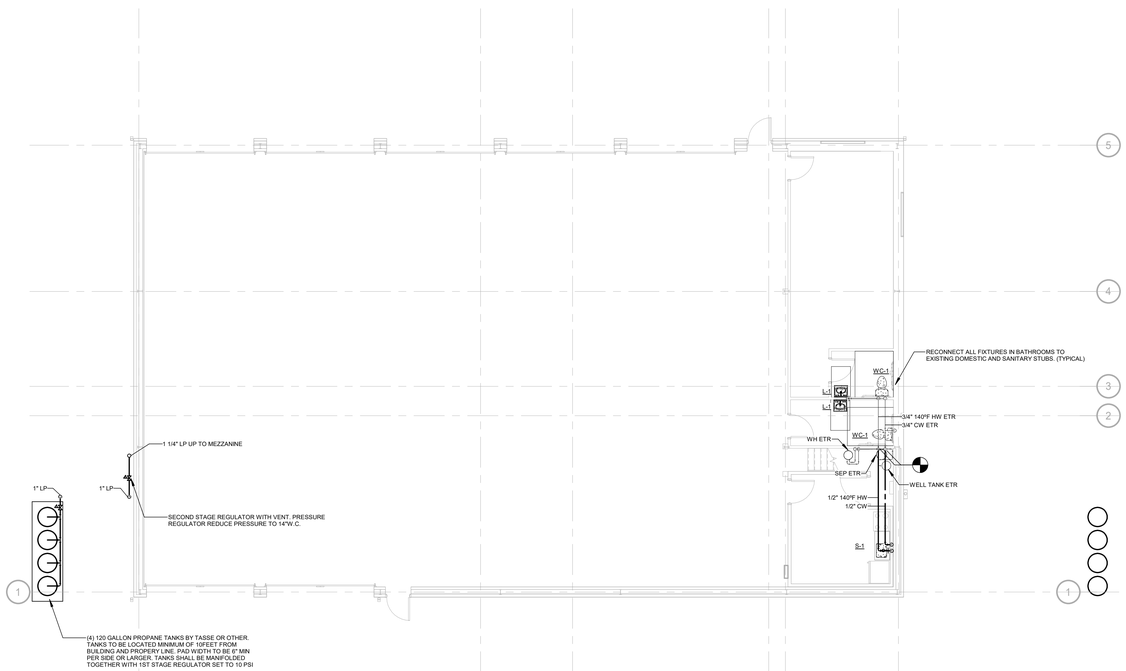
PD1.10



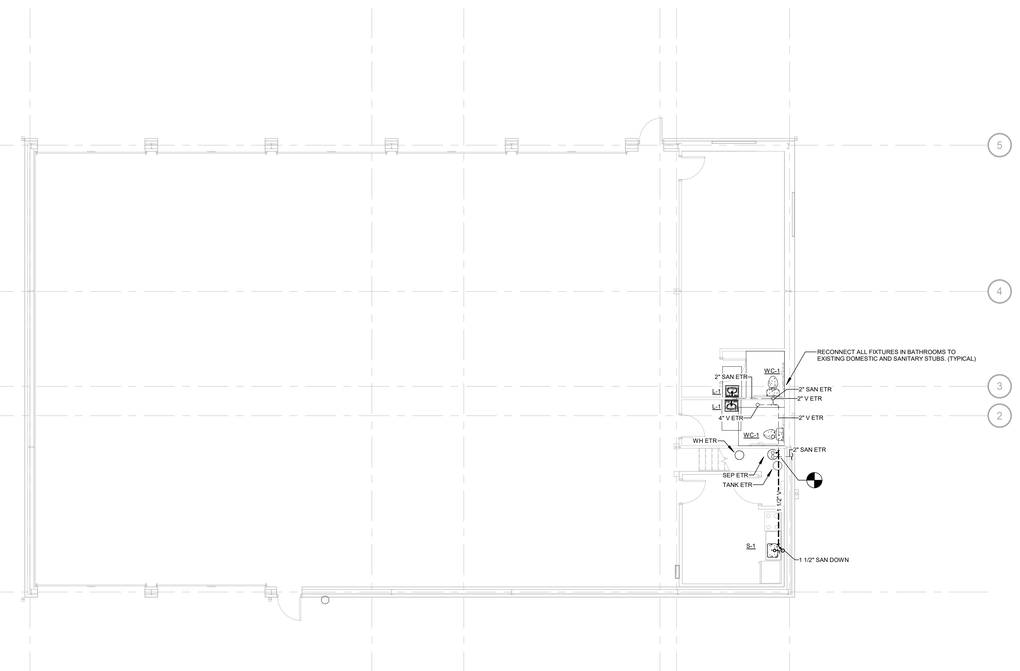
2 PLUMBING UNDERGROUND FLOOR PLAN
1/8" = 1'-0"



3 PLUMBING MEZZANINE FLOOR PLAN
1/8" = 1'-0"



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



PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

Drawing Title

PLUMBING
FLOOR PLAN

Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

P2.10

Tecton
ARCHITECTS

Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PLUMBING SPECIALTIES SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
CO-1	JR SMITH MODEL # 4420C	CLEANOUT: CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREAD PLUG	VANDAL PROOF	-	#3, 4	TV-1	LEONARD MODEL # 170D-LF-BRKT	POINT OF USE THERMOSTATIC MIXING VALVE: THERMOSTATIC MIXING VALVE, CONTROLLABLE DOWN TO 0.25 GPM, 0.75 GPM @ 5 PSI PRESSURE DROP, WITH COLD WATER BYPASS	BRONZE BODY, INLET CHECK STOPS, 110°F OUTLET TEMPERATURE	TIGHT TO BOTTOM OF FIXTURE SERVED	#2, 3
						WCO-1	JR SMITH MODEL # 4402C-U	WALL CLEANOUT: DUCO CAST IRON, SPIGOT FERRULE CAST BRONZE THREAD PLUG, CLEANOUT FINISH SHALL MATCH ARCHITECTURAL FINISHES	VANDAL PROOF. COORDINATE LOCATIONS WITH ARCHITECT.	-	#1, 5

REMARKS:
1. INSTALL SIZED PER LOAD (WSFU) RECOMMENDED BY PDI & MANUFACTURER.
2. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS.
3. UNLESS OTHERWISE INDICATED, SHALL BE FULL SIZE OF PIPE SERVED. REFER TO FLOOR PLANS FOR SIZES.
4. PROVIDE CLEANOUT AT ALL HORIZONTAL TURNS GREATER THAN 45 DEGREES FOR ALL STORM AND SANITARY PIPING.
5. PROVIDE WALL CLEANOUT AT BASE OF ALL SANITARY AND STORM STACKS. FURNISH WITH ACCESS DOOR OR COVER.

PLUMBING FIXTURE SCHEDULE

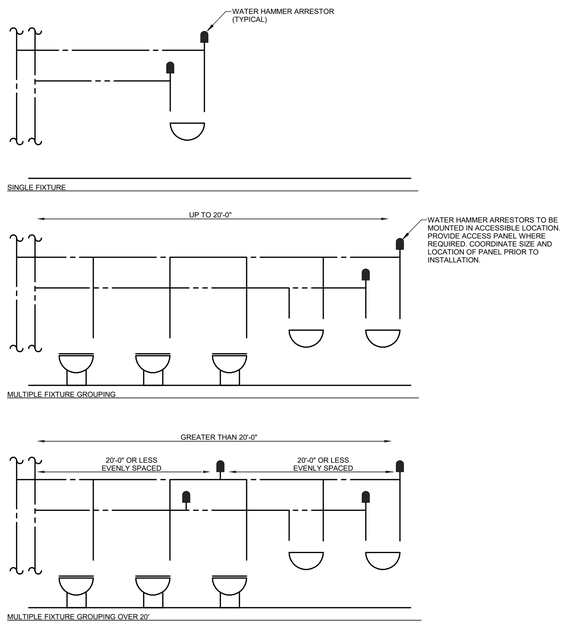
SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND	REMARKS
L-1	AMERICAN STANDARD "LUCERNE" MODEL 0355.012	LAVATORY: ACCESSIBLE, VITREOUS CHINA, ROUND, SINGLE BOWL, WALL HUNG SINK, FRONT OVERFLOW.	SYMMONS ORIGINS MODEL SLC-9610 MANUAL LAVATORY FAUCET WITH GRID DRAIN ASSEMBLY AND VANDAL PROOF 0.5 GPM FLOW RESTRICTOR, DRAIN AND OFFSET TAILPIECE #LKAD-174. FURNISH WITH WALL HANGER. FURNISH WITH TV-1.	#2,3,4,6	WC-1	AMERICAN STANDARD "CADET PRO" MODEL #215AA.104	WATER CLOSET: ACCESSIBLE, FLOOR MOUNTED, ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD	FLUSH TANK, 1.28 GPF. AMERICAN STANDARD #5901.100 HEAVY DUTY OPEN FRONT LESS COVER SEAT. JR SMITH SERIES 0200 WATER CLOSET SUPPORT.	#1,3,4,5,7
S-1	ELKAY MODEL # LRAD172265PD	KITCHEN SINK: DROP IN, 18 GAUGE TYPE 304 SST., SELF RIMMING, 6-1/2" DEEP, REAR CENTER DRAIN. BOWL SIZE: 17" X 22" X 6-1/2"	CHICAGO FAUCETS, EXTRA LONG, MANUAL, 1.5 GPM, MODEL # 786-ABCP. FURNISH WITH TV-1.	#2,3,4,6,7					

REMARKS:
1. FIXTURE SHALL BE WHITE UNLESS SPECIFIED OTHERWISE BY THE ARCHITECT.
2. INSTALL TRUEBRO INC. MODEL #102, HANDI LAV-GUARD PROTECTOR ON THE HOT, COLD, AND DRAIN PIPING UNDER FIXTURE.
3. FIXTURES AND TRIM AS NOTED SHALL BE "ACCESSIBLE" AND SHALL BE INSTALLED TO ADA / ANSI A117 AND FEDERAL 504 REQUIREMENTS.
4. PROVIDE ISOLATION VALVES AT THE PIPE CONNECTIONS.
5. PROVIDE WATER HAMMER ARRESTORS AT THE PIPE CONNECTIONS, LOCATE ABOVE AN ACCESSIBLE CEILING OR IN WALL WITH ACCESS PANEL.
6. PROVIDE SINK WITH OFFSET DRAIN TO LEFT OR RIGHT AND BACK OF BOWL FOR ADA COMPLIANCY, ANSI A117 AND FEDERAL 504 REQUIREMENTS SEE ARCHITECTURAL DRAWINGS FOR DRAIN LOCATIONS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.

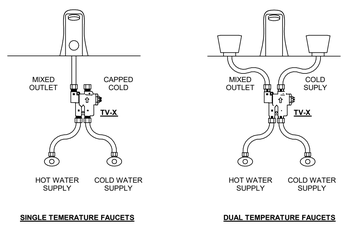
WATER HAMMER ARRESTOR SCHEDULE

MANUFACTURER/ MODEL NUMBER	SIZE N.P.T.	OVER ALL LENGTH	PRELOADED PSI (AIR)	FIXTURE UNITS	REMARKS
PPP MODEL #SC-500	1/2"	5"	60	1-11	ALL
PPP MODEL #SC-750	3/4"	6"	60	12-32	ALL
PPP MODEL# SC-1000	1"	6 3/4"	60	33-60	ALL
PPP MODEL# SC-1250	1 1/4"	8 3/4"	60	61-113	ALL
PPP MODEL# SC-1500	1 1/2"	10 1/4"	60	114-154	ALL
PPP MODEL# SC-2000	2"	10 7/8"	60	155-330	ALL

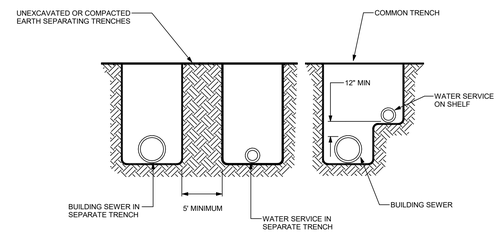
NOTES:
1. LOCATE WATER HAMMER ARRESTORS AS CLOSE AS POSSIBLE TO SHOCK SOURCE.
2. INSTALL PER ALL MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.
3. LOCATE IN AN ACCESSIBLE LOCATION, PROVIDE ACCESS AS REQUIRED.
4. FIXTURE UNITS SHALL BE BASED ON THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE.
5. WATER HAMMER ARRESTORS SHALL BE PROVIDED WHERE QUICK-CLOSING VALVES ARE UTILIZED.
6. PROVIDE WATER HAMMER ARRESTORS AT CLOTHES WASHING MACHINES
7. PROVIDE WATER HAMMER ARRESTORS PER GROUP OF WATER CLOSETS AND PER GROUP OF URINALS. WHERE GROUP DOES NOT EXIST PROVIDE WATER HAMMER ARRESTOR AT SINGLE WATER CLOSET.



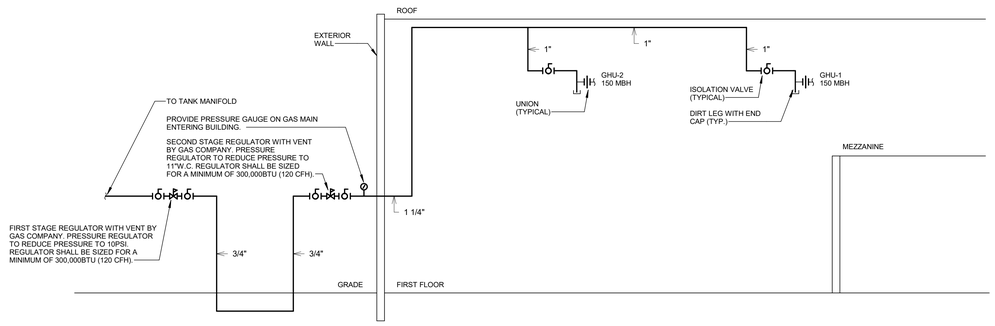
4 WATER HAMMER ARRESTOR INSTALLATION DETAIL
NTS



2 LAVATORY MIXING VALVE DETAIL
NTS



3 TYPICAL FLOOR DRAIN/FLOOR SINK SERVICE PIPING INSTALLATION DETAIL
NTS



NOTES:
1. FURNISH AND INSTALL GAS PIPING, VALVES, AND APPURTENANCES IN ACCORDANCE WITH THE LOCAL GAS UTILITY REQUIREMENTS.
2. PROVIDE GAS CONNECTION TO ALL GAS FIRED EQUIPMENT.

111 NATURAL GAS RISER
NTS

Tecton ARCHITECTS

CES
Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

Drawing Title

PLUMBING SCHEDULES AND DIAGRAMS

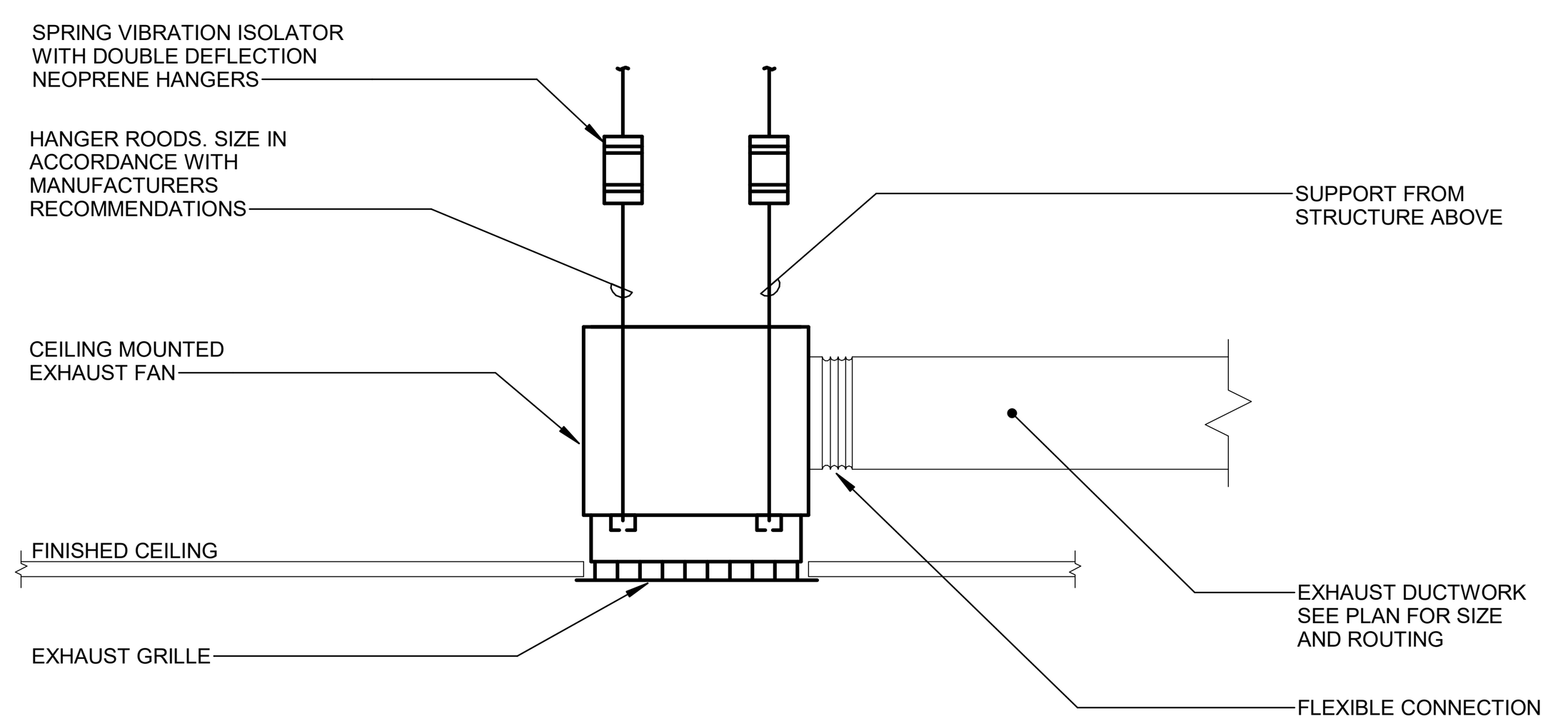
Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

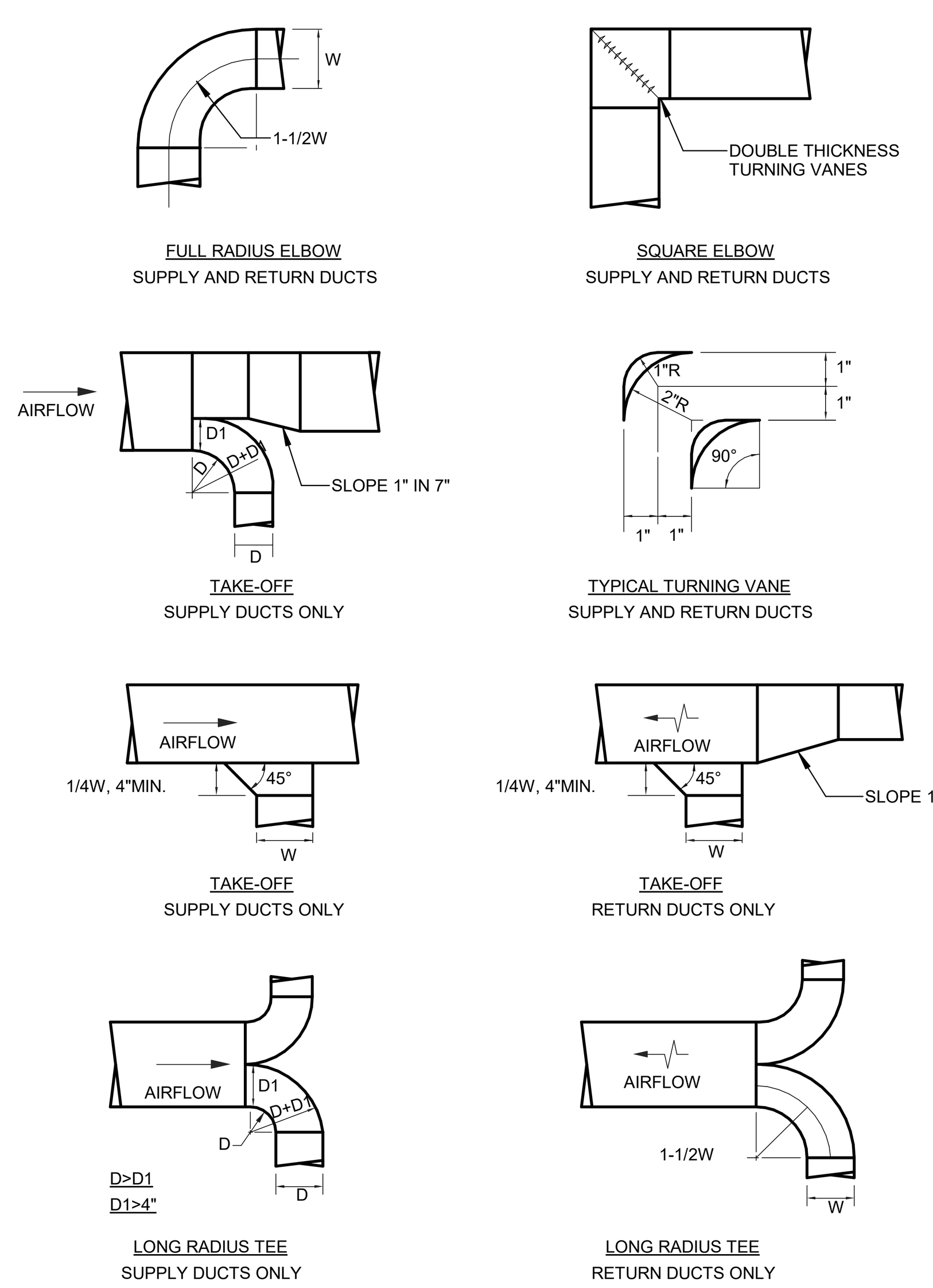
P6.00

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
B	BOILER
CUH	CABINET UNIT HEATER
CF	CENTRIFUGAL SEPARATOR
CH	CHILLER
CB	CHILLED BEAM
CHWC	CHILLED WATER COIL
CHWP	CHILLED WATER PUMP
CT	COOLING TOWER
CRAC	COMPUTER ROOM AC UNIT
CP	CONDENSATE PUMP
CWP	CONDENSER WATER PUMP
CU	CONDENSING UNIT
CV	CONVECTOR
DEF	DISHWASHER EXHAUST FAN
DAC	DUCTLESS AIR CONDITIONING UNIT
DHP	DUCTLESS HEAT PUMP
DOAS	DEDICATED OUTDOOR AIR SYSTEM
EB	ELECTRIC BASEBOARD
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ET	EXPANSION TANK
F	FAN
FCU	FAN COIL UNIT
FOP	FUEL OIL PUMP
FRP	FUEL OIL RETURN PUMP
GMU	GLYCOL MAKE-UP UNIT
HX	HEAT EXCHANGER
HWC	HOT WATER COIL
H	HUMIDIFIER
HWP	HOT WATER PUMP
KEF	KITCHEN EXHAUST FAN
LB	LINEAR BAR GRILLE
LS	LINEAR SLOT DIFFUSER
MAU	MAKE UP AIR UNIT
PHX	PLATE AND FRAME HEAT EXCHANGER
P	PUMP
R	RADIATION
RHC	REHEAT COIL
RF	RETURN FAN OR RELIEF FAN
RP	RADIANT PANEL
RTU	ROOFTOP UNIT
SA	SOUND ATTENUATOR
SPF	STAIR PRESSURIZATION FAN
SEF	SMOKE EXHAUST FAN
SD	SUPPLY DIFFUSER
SG	SUPPLY GRILLE
TEF	TOILET EXHAUST FAN
UH	UNIT HEATER
WSHP	WATER SOURCE HEAT PUMP



1 CEILING MOUNTED EXHAUST FAN DETAIL
NTS



2 TYPICAL DUCT DETAILS
NTS

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
12x6	RECTANGULAR DUCTWORK
12"ø	ROUND DUCTWORK
12/6	OVAL DUCTWORK
12x6	DUCTWORK SHOWN SINGLE LINE
	ACOUSTICALLY LINED DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	RECTANGULAR SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	ROUND SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	ROUND SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR RETURN DUCTWORK TOWARDS (UP IN PLAN)
	ROUND RETURN DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR RETURN DUCTWORK AWAY (DOWN IN PLAN)
	ROUND RETURN DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	ROUND EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	ROUND EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	FLEXIBLE DUCT
	OPEN ENDED DUCT WITH WIRE MESH SCREEN
	CAPPED DUCT
	DUCT TRANSITION

AIR DEVICE LEGEND

SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER
	RETURN GRILLE OR REGISTER
	EXHAUST GRILLE OR REGISTER
	SIDEWALL SUPPLY GRILLE
	SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER
	SUPPLY DIFFUSER (BLOW INDICATED)
	LINEAR DIFFUSER
	CHILLED BEAM

DAMPER LEGEND

SYMBOL	DESCRIPTION
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER W/ACCESS DOOR
MD	MOTORIZED CONTROL DAMPER W/ACCESS DOOR
SD	SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
FSD	COMBINATION FIRE/SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
RD	RADIATION DAMPER
BD	BACKDRAFT DAMPER
AVD	AUTOMATIC VOLUME DAMPER (PRESSURE INDEPENDENT)

GENERAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
CNV	CONVECTOR
APD	AIR PRESSURE DROP
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BF	BYPASS FEEDER
BHP	BREAK HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CRD	CEILING RADIATION DAMPER
CAP	CAPACITY
COP	COEFFICIENT OF PERFORMANCE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CFM	CUBIC FEET PER MINUTE
CUFT	CUBIC FEET
dB	DECIBELS
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ER	EXISTING TO BE RELOCATED
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE SMOKE DAMPER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRILLE, REGISTER, DIFFUSER
HD	HEAD
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
HZ	HERTZ
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
IN WG	INCHES WATER GAUGE
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSANDS OF BTU / HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OAT	OUTSIDE AIR TEMPERATURE
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
P	PUMP
PH	PHASE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RV	RADON VENT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SG	SIGHT GLASS
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SS	STAINLESS STEEL
SST	SATURATED SUCTION PRESSURE
SQFT / SF	SQUARE FEET
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UOI	UNLESS OTHERWISE INDICED
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
X	DEMOLISH

VRF GENERAL NOTES

VRF GENERAL NOTES:
1. MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230.
2. MANUFACTURER MUST MEET MINIMUM EFFICIENCIES AND PERFORMANCE EQUAL TO OR GREATER THAN THE BASIS OF DESIGN.
3. SUBMITTED PERFORMANCE DATA MUST BE FULLY DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO LINE LENGTH, VERTICAL SEPARATION, CONNECTION RATIO, DESIGN CONDITIONS (TEMPERATURE DB/WB), AND COIL COATINGS.
4. PROVIDE ALL CONTROL WIRING NECESSARY FROM THE OUTDOOR UNIT, INDOOR UNIT, CONTROLLER/THERMOSTAT, AND CONTROLS ASSOCIATED WITH THE SYSTEM IN ORDER TO BE FULLY OPERATIONAL.
5. SYSTEM SHALL BE PROVIDED WITH A MANUFACTURER-ASSISTED START-UP. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. INSTALLING CONTRACTORS MUST ATTEND THE REQUIRED VRF INSTALLATION TRAINING BY THE MANUFACTURER.
7. PROVIDE BACNET COMMUNICATION TO INTEGRATE WITH THE BMS CONTROL SYSTEM

VRF OUTDOOR UNITS NOTES:
1. MANUFACTURER MUST PROVIDE HEATING DURING OIL EQUALIZATION AND DEFROST OPERATIONS.
2. LOCATE CONDENSING UNITS WITH 18-INCH SEPARATION BETWEEN CONDENSING UNIT MODULES FOR IMPROVED SERVICEABILITY.

VRF INDOOR UNITS NOTES:
1. VRF UNITS SHALL BE PROVIDED WITH FACTORY-INSTALLED, INTEGRATED CONDENSATE PUMPS. IF NOT POSSIBLE (I.E. WALL MOUNTED UNITS), CONTRACTOR SHALL PROVIDE REMOTE CONDENSATE PUMP FOR EACH UNIT NOT INCLUDING AN INTEGRAL CONDENSATE PUMP.

(OPTIONAL - NOTE 2 - DESIGNER SHALL CHECK IF THIS IS AN APPLICABLE NOTE TO THE PROJECT)

2. MANUFACTURER SHALL PROVIDE A REMOTE TEMPERATURE SENSOR IN LIEU OF A WALL-MOUNTED VRF CONTROLLER. THE SENSOR SHALL BE MOUNTED INSIDE THE VENTED WALL PLATE BY ATS CONTRACTOR. ATS WALL PLATE MUST NOT GENERATE HEAT.
3. VRF UNITS SHALL HAVE AN INTEGRATED OVERFLOW SWITCH.

VRF PIPING INSTALLATION NOTES (R410A):
1. REFRIGERANT PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC; REFER TO THE VRF PIPING DIAGRAM FOR MORE INFORMATION.
2. ALL PIPING SIZES SHOWN SHALL BE COORDINATED WITH VRF MANUFACTURER REGARDLESS OF THE SIZE INDICATED ON DRAWINGS.
3. PROVIDE REFRIGERATION BALL VALVES WITH CHARGING PORTS DOWNSTREAM OF BRANCH SELECTOR BOX FOR SERVICE.
4. FOR REFRIGERANT PIPE SIZES, CONSULT THE MANUFACTURER; REFRIGERANT PIPE RISERS INCLUDED IN DRAWINGS SHALL BE REVIEWED AND CONFIRMED BY THE MANUFACTURER PRIOR TO PURCHASING EQUIPMENT.

(OPTIONAL - NOTE 5 SHOULD BE FOR EXISTING ROOFS, AND NOTE 6 FOR NEW ROOFS)

5. REFRIGERANT PIPING ON ROOF SHALL BE MOUNTED ON MIFAB MODEL CE10-12 SERIES EXTENDED SUPPORTS FOR PIPING SYSTEMS. PIPING SHALL BE SUPPORTED 14" ABOVE ROOF.
6. REFRIGERANT PIPING ON ROOF SHALL BE MOUNTED ON FLASHABLE ROOF RAILS (NOVA, FRES OR EQUAL) PIPING SHALL BE SUPPORTED 14" ABOVE ROOF.

(OPTIONAL – NOTE#7&8 ARE FOR DAIKIN SYSTEM ONLY)

7. CONTRACTOR SHALL ENSURE MINIMUM OF 20 INCHES OF STRAIGHT PIPING UPSTREAM AND DOWNSTREAM OF REFNET JOINT, BS BOXES, AND INDOOR UNITS PER THE MANUFACTURER'S INSTRUCTIONS.
8. REFNETS SHALL BE MOUNTED HORIZONTALLY WITH NO MORE THAN 15 DEGREES TILT, OUT OF PLANE.
9. CONTRACTOR SHALL TRIPLE EVACUATE SYSTEM PIPING THROUGH THE INDOOR UNITS.
10. SEAL REFRIGERATION PIPING UNTIL READY TO BRAZE – ONLY USE CLEAN PIPING FREE OF SCRATCHES OR DEFECTS.

GENERAL NOTES

1. GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO DRAWINGS WITHIN DIVISION 23.
2. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODES.
3. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. COORDINATE LOCATIONS OF SYSTEMS AND COMPONENTS.
4. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
5. RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE NOTED.
6. INSTALL SENSORS (TEMPERATURE, HUMIDITY, CO2, THERMOSTATS) AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ARCHITECT. MOUNTING HEIGHT AFF SHALL COMPLY WITH ADA AND SHALL BE MOUNTED LEVEL WITH ADJACENT SWITCHES (IE LIGHT SWITCHES).
7. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS.
8. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. SUBMIT ACCESS PANEL LOCATIONS FOR REVIEW.
9. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: HVAC CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, FILTERS, BELTS, WATER COILS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
10. SUPPORT EQUIPMENT, PIPING, AND DUCTWORK FROM BUILDING STRUCTURE OR WITH STEEL SUPPORTS AND PLATFORMS AS REQUIRED. PROVIDE VIBRATION ISOLATION FOR ROTATING EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
11. ROOF CURB AND RAIL HEIGHTS INDICATED ARE THE DIMENSIONS BETWEEN THE ROOF SURFACE AND THE TOPS OF THE CURBS AND RAILS. WHERE THE ROOF IS PITCHED, CONSTRUCT CURBS AND RAILS SUCH THAT THE BOTTOM PITCHES WITH THE ROOF AND THE TOP IS LEVEL.
12. CONTROL WIRING METHODS SHALL COMPLY WITH NEC, AND DIVISION 26 SPECIFICATIONS.
13. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
14. PERFORM PRESSURE AND LEAKAGE TESTS BEFORE INSULATING DUCTWORK AND PIPING
15. COORDINATE AND PROVIDE HOUSEKEEPING PADS FOR FLOOR-MOUNTED MECHANICAL EQUIPMENT. HOUSEKEEPING PADS SHALL BE REINFORCED CONCRETE WITH 1" CHAMFERED EDGES, 6" THICK, WITH MINIMUM CLEARANCE OF 6" FROM EQUIPMENT BASE TO EDGE OF PAD. INCREASE DEPTH WHERE REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONDENSING BOILERS (TO ALLOW PROPER INSTALLATION OF NEUTRALIZATION EQUIPMENT AND GRAVITY DISCHARGE TO FLOOR DRAIN OR CONDENSATE PUMP) AND AHU (TO ALLOW INSTALLATION OF CONDENSATE TRAP).
16. MAINTAIN 6'-8" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ROUTES IN MECHANICAL ROOMS. MAINTAIN 3'-0" WIDE MEANS OF EGRESS IN MECHANICAL ROOMS.
17. MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND, AS SHOWN IN THE DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT, SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.
18. AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET WITH P-TRAP, P TRAP ARRANGEMENT SHALL BE BASED ON THE UNIT (NEGATIVE OR POSITIVE PRESSURE).
19. INSTALL UNITS WITH CLEARANCE FOR SERVICE AS REQUIRED BY THE MANUFACTURER.

AIR SYSTEM GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR DUCTWORK CONSTRUCTION CLASSES, SEAL, AND LEAKAGE CLASSES.
2. EXTERIOR LOUVERS ARE INDICATED FOR LOCATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR AND MOUNTED WITHIN THE DUCTWORK BY THE MECHANICAL CONTRACTOR. ASSOCIATED FAN SYSTEM SHALL SHUT DOWN UPON DETECTION OF SMOKE.
4. PROVIDE UL FIRE DAMPERS OR SMOKE/FIRE DAMPERS AND ASSOCIATED ACCESS PANELS WHERE SHOWN ON DRAWINGS IN COMPLIANCE WITH NFPA 90A. FOR DUCTS THAT PENETRATE FIRE WALLS, FLOORS AND PARTITIONS PROVIDE SLEEVES WHERE PENETRATIONS ARE NOT PERPENDICULAR TO SURFACE PENETRATED.
5. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS OF AIR TERMINAL DEVICES.
6. INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE SHEETMETAL SIZE FOR LINER IF APPLICABLE.
7. DIFFUSER SIZES SHOWN ARE NECK SIZES; REGISTER AND GRILLE SIZE ARE NOMINAL. ROUND RUN OUTS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED NECK SIZE, UNLESS NOTED AS LARGER. DUCT TRANSITIONS SHALL BE PROVIDED AS NECESSARY AT INLET TO DIFFUSER.
8. PROVIDE FLEXIBLE CONNECTIONS ON DUCTS CONNECTING TO FANS AND AIR HANDLING UNITS UNLESS INTERNALLY ISOLATED.
9. THE INSIDE OF DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
10. OPEN ENDED DUCTS SHALL BE PROVIDED WITH A 1/4" MESH ALUMINUM OR GALVANIZED SCREEN (80% FREE AREA MINIMUM).
11. ELBOWS IN DUCT SYSTEMS SHALL BE FULL RADIUS (CENTERLINE RADIUS = 1.5 DUCT WIDTH) WHERE SPACE PERMITS. WHERE LIMITED CLEARANCE OCCURS, PROVIDE SHORT RADIUS ELBOW WITH FULL LENGTH SPLITTER VANES PER SMACNA, OR MITERED ELBOW WITH TURNING VANES PER SMACNA.
12. PROVIDE CLEANOUTS IN KITCHEN EXHAUST DUCTS AT CHANGES IN DIRECTION AND BASES OF RISERS, AND EVERY 10 FEET IN STRAIGHT RUNS.
13. NOT ALL MANUAL DAMPERS ARE SHOWN ON THE DRAWINGS. PROVIDE MANUAL ADJUSTABLE DAMPERS ON EACH LOW PRESSURE SUPPLY, RETURN, AND EXHAUST DUCT TAKE OFF, AND AT TAKE OFFS TO REGISTERS, GRILLES, DIFFUSERS, AND OED; AS REQUIRED FOR PROPER BALANCE OF SYSTEM. PROVIDE CABLE OPERATED DAMPERS WHERE MANUAL DAMPER IS INACCESIBLE.
14. WHERE DUCTS PENETRATE WALLS WITH SOUND ISOLATION PERFORMANCE RATINGS, PROVIDE DUCT SLEEVE SIZED TO PROVIDE 1/4" GAP BETWEEN THE SLEEVE AND DUCT. FILL THE GAP WITH FIBEROUS MATERIAL AND SEAL AIRTIGHT WITH NON-HARDENING ACOUSTIC SEALANT
15. KITCHEN: COORDINATE REQUIREMENTS WITH KITCHEN EQUIPMENT VENDOR AND FOOD SERVICE DRAWINGS. PROVIDE DUCTWORK AND ACCESSORIES FOR DISHWASHER HOOD AND GREASE HOOD. GREASE DUCT AND DISHWASHER EXHAUST SHALL PITCH BACK TO HOOD

FAN SCHEDULE

GENERAL					PHYSICAL		PERFORMANCE					ACOUSTICAL DATA		ELECTRICAL				REMARKS			
TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	WEIGHT (LBS)	DRIVE	CFM	ESP (IN WG)	RPM	DRIVE LOSS (%)	BHP	INLET SONES	OUTLET SONES	WATTS	HP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
EF-1	GREENHECK	SP-A	TOILET 104	EXHAUST AIR	12	DIRECT	75	0.5	838	-	-	-	1.9	23.3	1/60	120	1	1	ALL	ALL	ALL
EF-2	GREENHECK	SP-A	TOILET 105	EXHAUST AIR	12	DIRECT	75	0.5	838	-	-	-	1.9	23.3	1/60	120	1	1	ALL	ALL	ALL

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. CEILING EXHAUST FAN	1. AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211 2. SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311	1. UNIT MOUNTED SPEED CONTROLLER 2. TIME DELAY SWITCH, 1 TO 60 MINUTES, ADJUSTABLE 3. CEILING RADIATION DAMPER 4. WASHABLE ALUMINUM MESH FILTER	1. SEE DETAIL 3/M5.00 2. PROVIDE FLEXIBLE DUCT CONNECTIONS AT DISCHARGE 3. SUSPEND FROM STRUCTURE ABOVE AT FOUR CORNERS WITH NEOPRENE VIBRATION HANGERS 4. TERMINATE THRU WALL WITH WALL CAP

MINI-SPLIT AC UNIT SCHEDULE

GENERAL						INDOOR UNIT						OUTDOOR CONDENSING UNIT				ELECTRICAL				REMARKS			
						COOLING		FAN															
TAG	MANUFACTURER	MODEL	LOCATION	MATCHED COMP. UNIT	NOMINAL TONS	TOTAL MBH	SENSIBLE MBH	CFM	ESP (IN WG)	SPEED	SOUND PRESS. (dBA)	WEIGHT (LBS)	AMBIENT TEMP. (F)	SEER	SOUND PRESS. (dBA)	MCA	MOP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
AC-1	MITSUBISHI	PKA-A24NKA7 & PUZ-A24NKA7	OFFICE 102	AC-CU-1	1.0	-	-	-	-	-	-	-	-	-	-	19	26	208	1	-	-	-	-
AC-2	MITSUBISHI	PKA-A24NKA7 & PUZ-A24NKA7	BREAK ROOM 108	AC-CU-2	1.0	-	-	-	-	-	-	-	-	-	-	19	26	208	1	-	-	-	-

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1.WALL MOUNTED 2. - 3. -	1. ***PERFORMANCE AT 80°F EDB, 67°F EWB, 95°F ODB, 75°F OWB***	1. - 2. - 3. -	1. - 2. - 3. -

ELECTRIC UNIT HEATER SCHEDULE

GENERAL				PERFORMANCE						ELECTRICAL			REMARKS			
TAG	MANUFACTURER	MODEL	LOCATION	KW	STAGES	MBH	CFM	FAN SPEED	LAT (°F)	AMPS	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
EUH-1	QMARK	MUH03-71	STORAGE M101	3.3	1	10.2	350	800	90	11	208	1	1	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. SUSPENDED. 2. - 3. -	1. LAT AT 60°F INLET AIR TEMPERATURE 2. - 3. -	1. 24 VOLT VONTROL. 2. SINGLE POLE INTERNAL THERMOSTAT. 3. INTERNAL SUMMER FAN SWITCH. 4. POWER DISCONNECT SWITCH 5. MANUAL RESET 6. OUTLET MESH (BIRD SCREEN).	1. PROVIDE WITH OPTIONAL MOUNTING BRACKETS. 2. - 3. -

GAS FIRED UNIT HEATER SCHEDULE

GENERAL				PHYS.	PERFORMANCE								ELECTRICAL			REMARKS			
					FURNACE					FAN									
TAG	MANUFACTURER	MODEL	LOCATION	WEIGHT (LBS)	INPUT (MBH)	OUTPUT (MBH)	EFFIC. (%)	LAT (°F)	STAGES	CFM	RPM	SPEED	HP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
UH-A	MODINE	PDP150AE01	REFER TO FLOOR PLANS	185	15000	124500	83	51	1	2180	1625	931	1/8	240	1	1	1,2	1-6	-

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. NATURAL GAS FIRED, POWER VENTED, PROPELLER FAN TYPE	1. ETL CERTIFIED 2. RATED AT 65°F WITH 55°F TEMPERATURE RISE	1. ADJUSTABLE DEFLECTOR BLADES 2. DIRECT SPARK IGNITION 3. CONTROL TRANSFORMER AND LOW VOLTAGE RELAY 4. PRESSURE SWITCH FOR VENTING 5. HIGH LIMIT SAFETY 6. PROGRAMMABLE THERMOSTAT WITH AUTO/OFF SYSTEM SWITCH AND AUTO/ON FAN SWITCH	

DEMOLITION NOTES

DEMOLITION NOTES

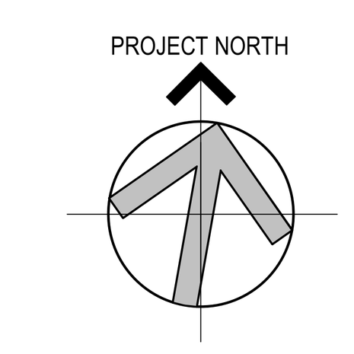
1. SITE VISIT: THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVER.
2. PREPARATORY WORK: BEFORE STARTING WORK IN A PARTICULAR AREA OF THE PROJECT, VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED INCLUDING PREPARATORY WORK DONE UNDER OTHER SECTIONS OR CONTRACTS BY OWNER. REPORT CONDITIONS THAT MIGHT AFFECT WORK ADVERSELY IN WRITING TO ARCHITECT AND OWNER. DO NOT PROCEED WITH WORK UNTIL DEFECTS HAVE BEEN CORRECTED AND CONDITIONS ARE SATISFACTORY. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.
3. PHASING: DEMOLITION WORK SHALL COMPLY WITH THE PHASING REQUIREMENTS OF THE PROJECT AND BE COORDINATED WITH THE OWNER, ARCHITECT, CM AND ENGINEER. NO REMOVALS SHALL BE IMPLEMENTED WITHOUT A THOROUGH UNDERSTANDING OF THE PHASING REQUIREMENTS.
4. ABANDONING OF DUCTWORK, PIPING OR EQUIPMENT IN PLACE WITHIN SCOPE AREA IS PROHIBITED.
5. PROVIDE 2 WEEKS NOTICE TO OWNER FOR SHUT DOWN OF ANY SERVICES AND/OR SYSTEMS.
6. COORDINATE EXISTING EQUIPMENT AND MATERIALS THAT SHALL REMAIN THE PROPERTY OF THE OWNER. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
7. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
8. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER IN WRITING. PROVIDE TEMPORARY SERVICES AS REQUIRED.
9. INFORMATION CONTAINED ON THESE DRAWINGS WAS OBTAINED FROM ARCHIVED DRAWINGS AND SITE VISITS. DRAWINGS ARE DIAGRAMMATIC ONLY AND REFLECT OVERALL SYSTEM REMOVAL. NOT EVERY ITEM OR COMPONENT OF A SYSTEM IS SHOWN. PROVIDE COMPLETE REMOVAL OF ASSOCIATED ANCILLARY PIPES, HANGERS, VALVES AND ACCESSORIES SERVING SYSTEM SHOWN.
10. DEMOLITION WORK SHALL COMPLY WITH OSHA, EPA AND APPLICABLE STATE AND LOCAL CODES. COMPLY WITH HAULING AND DISPOSAL REGULATIONS.
11. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND PROCEDURES.

Tecton ARCHITECTS

CES
Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor
TOWN OF NORTH BROOKFIELD
Street Address
City, State

Project
NORTH BROOKFIELD FIRE HEADQUARTERS
56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535



Seals
Project Status

Issues / Revisions

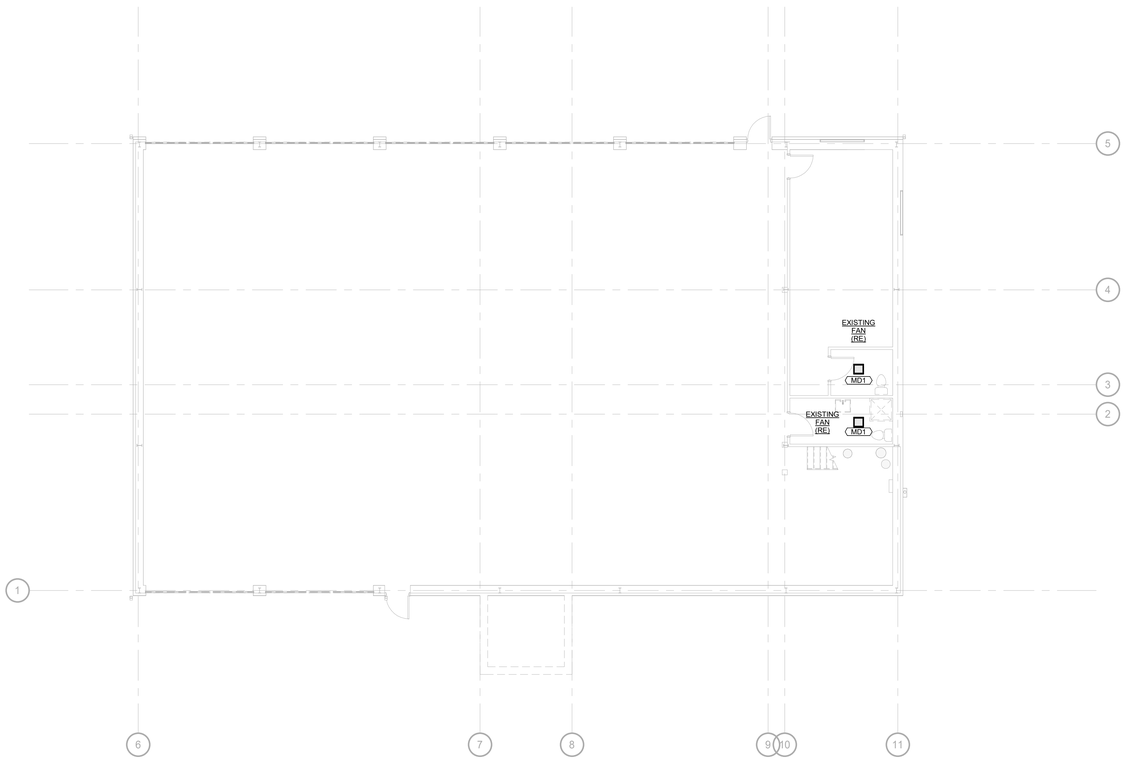
No.	Date	Description

Drawing Title
MECHANICAL ABBREVIATIONS, NOTES AND SYMBOLS

Project Manager: PM		Project No: NBR02AR.01	
Project Architect: PA		Production Leader: PL	
Project Designer: ID		Peer Reviewer: PR	

Drawing Number
M0.00

KEYNOTES - MECHANICAL DEMOLITION	
Key Value	Keynote Text
MD1	REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.



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

Tecton ARCHITECTS

Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

Drawing Title

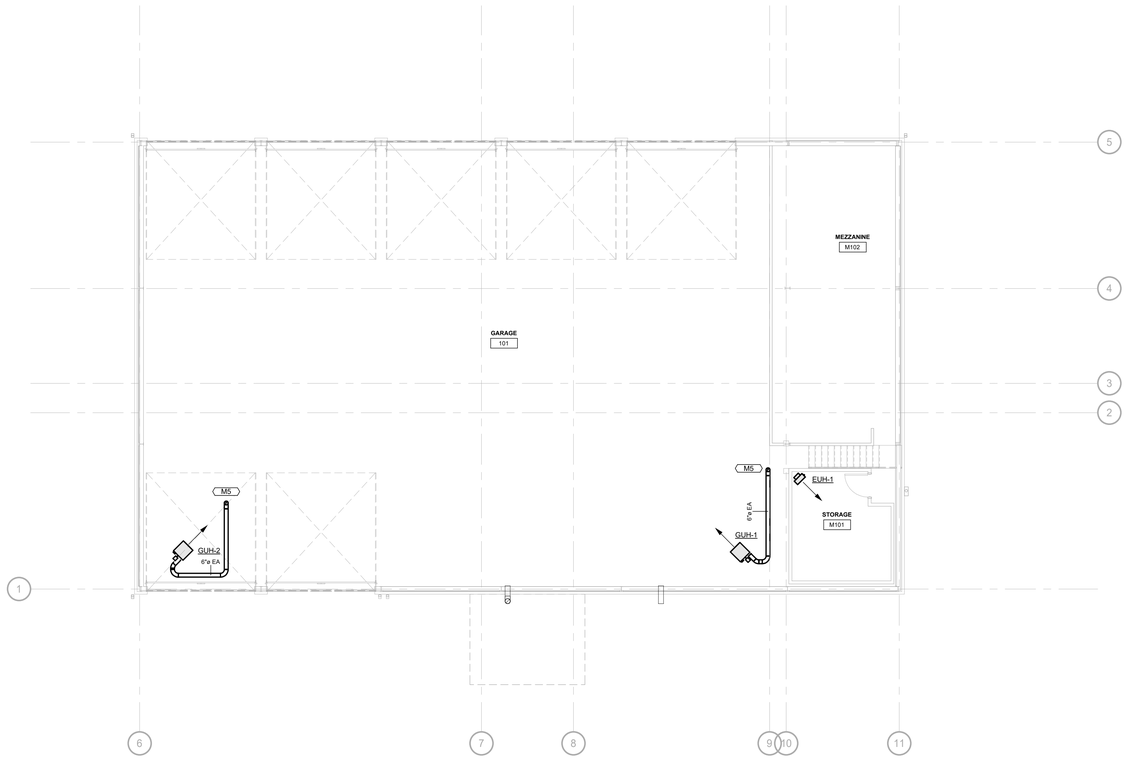
MECHANICAL DUCTWORK DEMOLITION FLOOR PLAN

Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

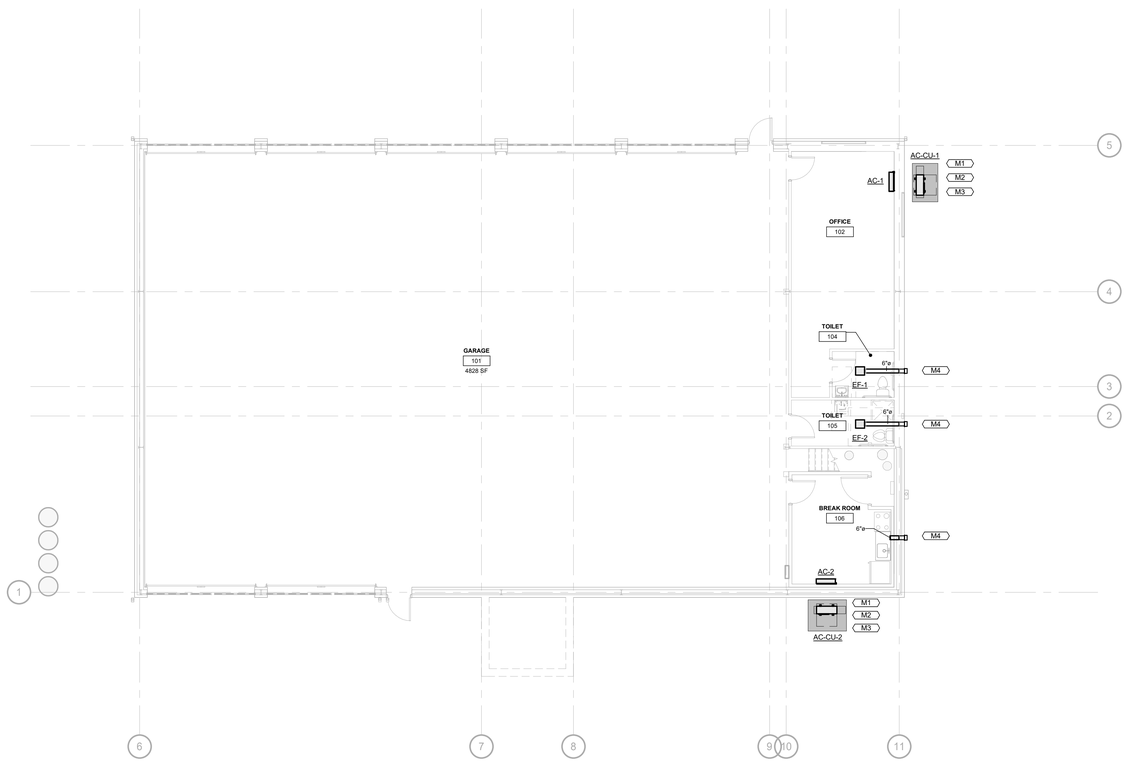
Drawing Number

MD1.10

C:\Users\rheinrich\Documents\R22.2023447-MEP Central - DWP - North Brookfield Fire Station_rheinrich.rvt
2/26/2024 2:59:22 PM



2 MECHANICAL DUCTWORK MEZZANINE FLOOR PLAN
1/8" = 1'-0"



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

KEYNOTES - MECHANICAL

Key Value	Keynote Text
M1	PROVIDE RS/RL PIPING BETWEEN INDOOR UNIT AND OUTDOOR UNIT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. ROUTE RS/RL PIPING TIGHT TO EXTERIOR WALL AND PROVIDE LINE SET COVERS SIMILAR TO RECTORSEAL SLIMDUCT LINE SET COVER.
M2	PROVIDE 3/4" CONDENSATE PIPING FROM AC UNIT. PENETRATE EXTERIOR WALL AND TERMINATE WITH DOWN TURNED 45 ELBOW.
M3	PROVIDE 6" THICK CONCRETE HOUSEKEEPING PAD FOR CONDENSING UNIT. LOCATE UNIT ON MANUFACTURER'S 24" TALL STANDS.
M4	PROVIDE PAINTED HOODED WALL CAP W/ BACKDRAFT DAMPER.
M5	6" EA TERMINATION AT ROOF WITH MANUFACTURER RAIN CAP.

Tecton ARCHITECTS

CES Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

Drawing Title

MECHANICAL DUCTWORK FLOOR PLAN

Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

M2.10

ELECTRICAL ABBREVIATIONS

A/AMP	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAL WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT OR COPPER
CUH	CABINET UNIT HEATER
D	DRYER
DEG.	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ETR	EXISTING TO REMAIN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EP	EMERGENCY PANEL
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FCU	FAN COIL UNIT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MAU	MAKE-UP AIR UNIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MH	METAL HALIDE OR MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NE	NEW DEVICE INSTALLED IN SAME LOCATION AS EXISTING REMOVED DEVICE
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NEW LOCATION OF RELOCATED DEVICE
NR	NEW TO REPLACE EXISTING
NTS	NOT TO SCALE
P	POLE
PE	PRIMARY ELECTRIC SERVCE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RE	EXISTING TO BE REMOVED
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RL	EXISTING TO BE RELOCATED
RM	ROOM
RN	EXISTING TO BE REMOVED AND REPLACED WITH NEW (EXISTING BACKBOXES, CONDUIT TO REMAIN)
RR	EXISTING TO BE RELOCATED IN SAME LOCATION ON NEW SURFACE
RTU	ROOFTOP UNIT
SE	SECONDARY ELECTRICAL SERVICE
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SPD	SURGE PROTECTION DEVICE
TELE	TELECOMMUNICATIONS/TELEPHONE
TV	TELEVISION
T/TX	TRANSFORMER
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
VIF	VERIFY IN FIELD
W	WATT OR WIRE
WA	WASHER
WG	WIRE GUARD
WP	WEATHERPROOF

LIGHTING SWITCH AND SENSOR TAGS

$ XX,a
- WALL MOUNTED SWITCH
- SWITCH CONTROL GROUP

SWITCH TYPE:

BLANK -	LINE VOLTAGE SINGLE POLE TOGGLE SWITCH
3 -	LINE VOLTAGE THREE WAY TOGGLE SWITCH
4 -	LINE VOLTAGE FOUR WAY TOGGLE SWITCH
D -	LINE VOLTAGE WALL DIMMER
K -	KEYED SWITCH - SINGLE POLE
K3 -	KEYED SWITCH - THREE WAY
OS -	LINE VOLTAGE OCCUPANCY SENSOR SWITCH (AUTO-ON / AUTO-OFF)
OSD -	LINE VOLTAGE OCCUPANCY DIMMER SWITCH (AUTO-ON / AUTO-OFF)
OSL -	LOW VOLTAGE OCCUPANCY SENSOR SWITCH (AUTO-ON / AUTO-OFF)
OSLD -	LOW VOLTAGE OCCUPANCY DIMMER SWITCH (AUTO-ON / AUTO-OFF)
VS -	LINE VOLTAGE VACANCY SENSOR SWITCH (MANUAL-ON / AUTO-OFF)
VSD -	LINE VOLTAGE VACANCY DIMMER SWITCH (MANUAL-ON / AUTO-OFF)
VSL -	LOW VOLTAGE VACANCY SENSOR SWITCH (MANUAL-ON / AUTO-OFF)
VSLD -	LOW VOLTAGE VACANCY DIMMER SWITCH (MANUAL-ON / AUTO-OFF)
LV -	LOW VOLTAGE MOMENTARY PUSHBUTTON FOR USE WITH CEILING SENSORS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
LVD -	LOW VOLTAGE DIMMER FOR USE WITH CEILING SENSORS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
LK# -	LIGHTING CONTROL KEYPAD FOR USE WITH ROOM CONTROLLER SYSTEM. "#" REPRESENTS TYPE OF KEYPAD. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.

OS OS XX,a
- WALL/CORNER MOUNTED OCCUPANCY SENSOR (OS), VACANCY SENSOR (VS)
- CEILING MOUNTED OCCUPANCY SENSOR (OS), VACANCY SENSOR (VS)
- SWITCH CONTROL GROUP

SENSOR TYPE:

BLANK -	DUAL SENSOR
H -	HIGH BAY SENSOR
IR -	PIR SENSOR
U -	ULTRASONIC SENSOR

NOTES:

1. FIXTURE(S) SHALL BE CONTROLLED BY SWITCH OR RELAY LOCATED IN THE ROOM UNLESS OTHERWISE NOTED ON PLAN.
2. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION ON WIRING AND SWITCHING.
3. WALL MOUNTED SWITCHES SHALL BE MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT.
4. SET ALL OCCUPANCY TYPE SENSORS TO AUTO-ON, AUTO-OFF MODE. SET ALL VACANCY TYPE SENSORS TO MANUAL-ON, AUTO-OFF MODE.
5. REFER TO CONTROL SCHEME NOTES AND CONTROL SCHEDULE FOR ADDITIONAL INFORMATION.
6. REFER TO SYMBOL LIST FOR ADDITIONAL LIGHTING CONTROL DEVICES.
7. WHERE SWITCHES ARE NOT TAGGED WITH CONTROL LETTER ON PLANS, ALL FIXTURES IN ASSOCIATED ROOM SHALL BE CONTROLLED SIMULTANEOUSLY VIA CONTROLS SPECIFIED.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION STARTER AND DISCONNECT SWITCH
	MOTOR STARTER OR CONTACTOR
$ M	MANUAL MOTOR STARTER
	MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS)
T	TRANSFORMER
M	ELECTRICAL METER
SPD	SURGE PROTECTIVE DEVICE
VFD	VARIABLE FREQUENCY DRIVE
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS
	HOMERUN TO PANELBOARD
	SWITCHED BRANCH CIRCUIT WIRING
PT #	POKE-THRU DEVICE. SUPERSCRIPT '#' INDICATES TYPE. REFER TO FLOOR BOX DEVICE SCHEDULE FOR TYPE.
FB #	FLOOR BOX. SUPERSCRIPT '#' INDICATES TYPE. REFER TO FLOOR BOX DEVICE SCHEDULE FOR TYPE.
J J	JUNCTION BOX
	SURFACE MOUNTED RACEWAY RISER TO NEAREST ACCESSIBLE CEILING
WM	WIREMOLD, LOCATE DEVICES AS INDICATED ON DRAWINGS
	SIMPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX WALL MOUNTED RECEPTACLE, HALF SWITCHED
	DUPLEX WALL MOUNTED RECEPTACLE, ON CRITICAL BRANCH OF GENERATOR POWER
W	DUPLEX GFCI-TYPE WALL MOUNTED RECEPTACLE FOR WASHING MACHINE. MOUNT 48" AFF UNLESS OTHERWISE NOTED.
M	DUPLEX WALL MOUNTED RECEPTACLE FOR MICROWAVE. COORDINATE WITH MICROWAVE LOCATION. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCH PRIOR TO ROUGH-IN.
DW	DUPLEX WALL MOUNTED RECEPTACLE FOR DISHWASHER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
REF	DUPLEX WALL MOUNTED RECEPTACLE FOR REFRIGERATOR. MOUNT 48" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
EWC	DUPLEX WALL MOUNTED RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
TR	DUPLEX WALL MOUNTED TAMPER RESISTANT RECEPTACLE. MOUNT 18" AFF UNLESS OTHERWISE NOTED.
XX"	DUPLEX WALL MOUNTED RECEPTACLE MOUNTED AT XX" ABOVE FINISHED FLOOR
	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
a a	RECEPTACLE, MOUNT 6" ABOVE COUNTER OR CASEWORK
bc bc	RECEPTACLE MOUNTED BELOW FRONT OF COUNTER
GFI GFI	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION
WP WP	RECEPTACLE WITH WEATHERPROOF COVER
c c	RECEPTACLE, CEILING MOUNTED
U U	DUPLEX OR DOUBLE DUPLEX WALL MOUNTED RECEPTACLE EACH WITH (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT.
CR	DUPLEX RECEPTACLE MOUNTED TO CEILING OR STRUCTURE ABOVE AND PROVIDE DROP-DOWN CORD REEL DEVICE WITH PENDANT 5-20R DUPLEX RECEPTACLE AT END OF CORD, UNLESS OTHERWISE NOTED.
	DOUBLE DUPLEX RECEPTACLE, HALF SWITCHED. PROVIDE ONE FULLY SWITCHED DUPLUX RECEPTACLE AND ONE UNSWITCHED DUPLEX RECEPTACLE. WIRE UNSWITCHED RECEPTACLE TO LINE SIDE OF CONTROLS IN ROOM.
	SPECIAL PURPOSE HARDWIRED CONNECTION: WIRING AS INDICATED
RH	HARDWIRED 20A/1P CONNECTION TO RANGE HOOD. MAKE FINAL CONNECTIONS AS REQUIRED BY MANUFACTURER.
HD	HARDWIRED 20A/2P CONNECTION TO HAND DRYER. MAKE FINAL CONNECTIONS AS REQUIRED BY MANUFACTURER.
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AND WIRING AS INDICATED
R	NEMA 14-50R RECEPTACLE FOR ELECTRIC RANGE. PROVIDE 3#8, #10G, 3/4"C. TO INDICATED BREAKER IN PANEL. (2 HOT, 1 NEUTRAL, 1 GROUND)
D	NEMA 14-30R RECEPTACLE FOR ELECTRIC DRYER. PROVIDE 3#10, #10G, 3/4"C. TO INDICATED BREAKER IN PANEL. (2 HOT, 1 NEUTRAL, 1 GROUND) CONNECT TO GFCI BREAKER IN PANELBOARD.
B	JUNCTION BOX FOR BUILDING MANAGEMENT SYSTEM LOCATED ABOVE CEILING. PROVIDE 20A/1P DEDICATED CIRCUIT. COORDINATE EXACT LOCATION WITH BMS CONTRACTOR PRIOR TO INSTALLATION.
PL	PLUG LOAD CONTROLLER FOR AUTOMATIC RECEPTACLE SHUTOFF, TIED INTO LIGHTING CONTROL SYSTEM. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION. CONTROLLED RECEPTACLES ARE INDICATED WITH SWITCHED WIRING ON PLANS.
AVD	DUPLEX RECEPTACLE WITH (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT. MOUNT ADJACENT TO "AVD" WALL BOX SHOWN ON PLANS.
MON	DUPLEX RECEPTACLE WITH (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT. MOUNT WITHIN SAME RECESSED BACKBOX AS "MON" DATA DEVICE SHOWN ON PLANS.
CP	DUPLEX WALL MOUNTED RECEPTACLE FOR CONDENSATE PUMP. COORDINATE EXACT LOCATION WITH HVAC CONTRACTOR.
CK	DUPLEX GFCI-TYPE WALL MOUNTED RECEPTACLE FOR ELECTRIC COOKTOP. MOUNTED 6" ABOVE TOP OF COUNTER.
$ EPO	EMERGENCY-POWER-OFF TOGGLE SWITCH. REFER TO GAS-FIRED EQUIPMENT SHUTOFF DETAIL FOR ADDITIONAL INFORMATION.

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	POLE MOUNTED SITE LIGHTING FIXTURE
	EXTERIOR BUILDING MOUNTED LIGHTING FIXTURE
	EXTERIOR BUILDING MOUNTED EMERGENCY LIGHTING FIXTURE
	SURFACE MOUNTED LIGHTING FIXTURE
	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE
	PENDANT MOUNTED LIGHTING FIXTURE
	PENDANT MOUNTED EMERGENCY LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	RECESSED EMERGENCY LIGHTING FIXTURE
	INDUSTRIAL OR STRIP TYPE FIXTURE
	TRACK LIGHTING, HEADS AS INDICATED ON DRAWINGS
	RECESSED WALL WASH FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	RECESSED DOWNLIGHT EMERGENCY FIXTURE
	SURFACE MOUNTED ROUND FIXTURE
	SURFACE MOUNTED ROUND EMERGENCY FIXTURE
	PENDANT HUNG LIGHTING FIXTURE
	PENDANT HUNG EMERGENCY LIGHTING FIXTURE
	WALL SCONCE
	EMERGENCY WALL SCONCE
	WALL MOUNTED LIGHTING FIXTURE
	WALL MOUNTED EMERGENCY LIGHTING FIXTURE
	WALL MOUNTED EXIT SIGN, DOUBLE FACED
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN, DOUBLE FACED
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH BATTERY
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH REMOTE CAPABILITY
	REMOTE EMERGENCY HEAD
	REMOTE DUAL HEAD EMERGENCY LIGHTING FIXTURE
EB	EMERGENCY BATTERY UNIT FOR USE WITH REMOTE LIGHTING HEADS
R	UL924 EMERGENCY LIGHTING RELAY. REFER TO EMERGENCY LIGHTING DETAILS FOR ADDITIONAL INFORMATION.
PC	LIGHT SENSING PHOTOCELL / DAYLIGHT SENSOR
RCN	ROOM CONTROLLER FOR NORMAL POWER LOW VOLTAGE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
RCE	ROOM CONTROLLER FOR EMERGENCY POWER LOW VOLTAGE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
PP	POWER PACK FOR STANDALONE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
LAC	LIGHTING AREA CONTROLLER - REFER TO LIGHTING CONTROL NETWORK DETAIL

LIGHTING FIXTURE TAGS

A,a
- UPPER CASE LETTER = FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE
- LOWER CASE LETTER = SWITCH CONTROL "NL"= NIGHT LIGHT FIXTURE WIRED TO LINE SIDE OF ALL CONTROLS

NOTES
1. FIXTURE CONTROL DESIGNATION REFERS TO ZONE/SWITCH/RELAY CONTROL OF FIXTURES CONTROLLED BY COMMON:
   A. SWITCH FOR LIGHTING IN ROOM, CORRIDOR, OPEN AREA.
   B. ZONE RELAY IN LOCAL LIGHTING CONTROL PANEL OR LIGHTING CONTROL RELAY PANEL.
   C. ALL CONTROL DEVICES (SWITCHES, CONTROL PANELS, OCCUPANCY/VACANCY SENSORS..ETC) WITH CONTROL DESIGNATIONS REFERS TO COMMON CONTROL OF THE SAME ZONE/SWITCH/RELAY CONTROL.
2. WHERE CONTROL DESIGNATION IS NOT SHOWN, ALL FIXTURES IN ASSOCIATED ROOM OR SPACE SHALL BE CONTROLLED SIMULTANEOUSLY VIA THE CONTROL DEVICES INDICATED ON PLANS.
3. WHERE EMERGENCY AND NORMAL FIXTURES ARE CONTROLLED FROM THE SAME ZONE/SWITCH/CONTROL RELAY, UL 924 EMERGENCY BYPASS RELAYS SHOWN WITH SAME CONTROL DESIGNATION BYPASS THAT ZONE/SWITCH/CONTROL RELAY. REFER TO EMERGENCY LIGHTING CIRCUIT SCHEMATICS FOR ADDITIONAL WIRING INFORMATION.
4. UNSWITCHED LIGHTING BRANCH CIRCUIT WIRING IS SHOWN TO A SINGLE FIXTURE IN EACH COMMON CONTROL ZONE. UNLESS OTHERWISE INDICATED, PROVIDE 2#12,#12G,3/4"C FOR SWITCHED WIRING TO ALL COMMON CONTROL FIXTURES.
5. PROVIDE LOW VOLTAGE DIMMING CONTROL WIRING AS INDICATED IN LIGHTING CONTROL DETAILS FOR DIMMABLE LIGHT FIXTURES IN COMMON CONTROL ZONES/SWITCHES/RELAY CONTROL.
6. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL WIRING AND CONTROL INFORMATION.
7. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES WHERE APPLICABLE FOR ADDITIONAL CONTROL INFORMATION.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
EQUIPMENT	
EAS	EMERGENCY 2-WAY COMMUNICATION SYSTEM AREA CALL STATION. REFER TO 2-WAY COMMUNICATION SYSTEM WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
EMS	EMERGENCY 2-WAY COMMUNICATION SYSTEM MASTER STATION. REFER TO 2-WAY COMMUNICATION SYSTEM WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
FATP	FIRE ALARM TRANSPONDER PANEL
INITIATING DEVICES	
S	CEILING MOUNTED SMOKE DETECTOR
S SB	CEILING MOUNTED SMOKE DETECTOR WITH SOUNDER BASE
S SB/CO	CEILING MOUNTED SMOKE DETECTOR WITH CARBON MONOXIDE SOUNDER BASE
S 520	CEILING MOUNTED SMOKE DETECTOR WITH LOW FREQUENCY 520HZ SOUNDER BASE
S	CEILING MOUNTED SMOKE DETECTOR WIRED TO ELEVATOR RECALL SYSTEM
H	CEILING MOUNTED HEAT DETECTOR WITH TEMPERATURE RATING OF 135 DEGREES UNLESS OTHERWISE NOTED
H RR	CEILING MOUNTED COMBINATION FIXED TEMPERATURE / RATE-OF-RISE HEAT DETECTOR
S/D	DUCT MOUNTED SMOKE DETECTOR AND HOUSING
SD FSD	SMOKE OR FIRE/SMOKE DAMPER WITH ASSOCIATED DUCT SMOKE DETECTOR. PROVIDE ALL ITEMS LISTED AS BY DIVISION 26 AND BY DIVISION 28 IN ELECTRICAL SMOKE DAMPER DETAIL. PROVIDE WITH ONE DUCT SMOKE DETECTOR UNLESS OTHERWISE NOTED.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION. MOUNT AT 48" AFF
H	HEAT DETECTOR FOR ELEVATOR RECALL CONTROLS
CO	CEILING MOUNTED CARBON MONOXIDE DETECTOR
NOTIFICATION	
XX	WALL MOUNTED COMBINATION SPEAKER / STROBE LIGHT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD. "XX"=CANDELA RATING
XX	WALL MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD. "XX"=CANDELA RATING
XX c	CEILING MOUNTED COMBINATION SPEAKER/STROBE LIGHT WITH A MULTI-CANDELA STROBE. "XX"=CANDELA RATING
XX c	CEILING MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. "XX"=CANDELA RATING
B	EXTERIOR SPRINKLER BELL. PROVIDE 20A/1P CIRCUIT.
INTERFACE MODULES	
MM	FIRE ALARM MONITOR MODULE
CM	FIRE ALARM CONTROL MODULE
RM	FIRE ALARM RELAY MODULE
MISCELLANEOUS	
RTS	REMOTE DUCT SMOKE DETECTOR TEST SWITCH
TS	FIRE PROTECTION TAMPER SWITCH AND FIRE ALARM MONITOR MODULE
FS	FIRE PROTECTION FLOW SWITCH AND FIRE ALARM MONITOR MODULE
PS	FIRE PROTECTION PRESSURE SWITCH AND FIRE ALARM MONITOR MODULE

ELECTRICAL GENERAL NOTES

1. BRANCH CIRCUITS AND FEEDER CIRCUITS SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS WHERE POSSIBLE, INCLUDING HOMERUNS TO PANELBOARDS. BRANCH CIRCUITS AND FEEDERS SHALL NOT BE ROUTED IN OR UNDER SLAB UNLESS SPECIFICALLY INDICATED ON ELECTRICAL FLOOR PLANS OR DETAILS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. BRANCH CIRCUITS SHALL BE 2#12,#12G.,3/4"C., TO NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
3. 120V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
4. 277V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 250' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
5. DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
6. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED ELECTRICAL DEVICES.
7. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
8. COORDINATE LOCATIONS OF ELECTRICAL DEVICES AND CONTROLS WITH RESPECT TO LOCATIONS OF CASEWORK AND EQUIPMENT PRIOR TO ROUGH-IN.
9. WHEN DEVICES ARE SHOWN ON PLANS OFFSET FROM ONE ANOTHER, DEVICES SHALL BE MOUNTED IN LINE, CENTERED ON WALL.
10. SHARED NEUTRAL WIRING IS NOT ACCEPTABLE, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE A DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT, WHERE APPLICABLE.
11. DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS AND DIMENSIONS SHALL GOVERN EXACT LOCATION AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES AND RACEWAYS.
12. FINISHES AND COLOR OF ELECTRICAL WIRING DEVICES, EXPOSED RACEWAY, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES SHALL BE DETERMINED BY THE ARCHITECT.
13. ELECTRICAL WORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE (OTHER THAN ROOF DECK).
14. THE ELECTRICAL CONTRACTOR SHALL PERFORM CORES REQUIRED FOR ELECTRICAL WORK.
15. BUILDING WIRE AND CABLE NOT IN RACEWAY SHALL BE PLENUM RATED.
16. PROVIDE SURFACE MOUNTED RACEWAY FOR NEW DEVICES LOCATED ON EXISTING TO REMAIN CMU OR MASONRY WALLS, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING SURFACE MOUNTED RACEWAY APPLICATIONS AND WIRING METHODS.

ELECTRICAL LIGHTING NOTES

1. REFER TO DRAWING **E6.00 (HQ BUILDING SET)** FOR LIGHTING FIXTURE SCHEDULE.
2. EXIT SIGNS AND EMERGENCY BATTERY UNITS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
3. EMERGENCY LIGHTING RELAY LOCATIONS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL INSTALL RELAYS ABOVE NEAREST ACCESSIBLE CEILING, OR IN NEAREST STORAGE ROOM/ UTILITY SPACE, AND SHALL COORDINATE LOCATION WITH OTHER TRADES. REFER TO EMERGENCY LIGHTING WIRING SCHEMATICS FOR ADDITIONAL INFORMATION.
4. REFER TO DRAWINGS **E5.00 & E5.01 (HQ BUILDING SET)** FOR TYPICAL LIGHTING CONTROL WIRING SCHEMATICS.

ELECTRICAL POWER NOTES

1. REFER TO DRAWING **E6.00 (HQ BUILDING SET)** FOR MOTOR/ EQUIPMENT CIRCUIT SCHEDULE.
2. RECEPTACLES LOCATED WITHIN 6' FROM WATER SOURCES SHALL BE GFCI TYPE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) -2" CONDUIT SLEEVE INTO EACH ROOM SHOWN WITH COMMUNICATIONS DEVICE(S). LOCATE ABOVE CEILING WHERE POSSIBLE.
4. SOUND SYSTEM EQUIPMENT SHALL BE POWERED OFF THE SAME PHASE OF SOURCE PANELBOARD.
5. 15A AND 20A, 120V AND 250V NON-LOCKING TYPE RECEPTACLES MOUNTED BELOW 5'-6" AFF SHALL BE LISTED TAMPER-RESISTANT TYPE IN ACCORDANCE WITH NEC 406.12.

ELECTRICAL TECHNOLOGY NOTES

1. COORDINATE POWER REQUIREMENTS TO ALL CONTROLLERS AND POWER SUPPLIES WITH THE SYSTEM PROVIDER AND THE ELECTRICAL SERIES DRAWINGS.
2. COORDINATE POWER REQUIREMENTS, RECOMMENDED WIRE SIZES AND EXACT POINTS OF CONNECTION FOR ELECTRIC LOCKING HARDWARE PROVIDED BY DIVISION 08 CONTRACTOR PRIOR TO INSTALLATION. COORDINATE WITH DOOR HARDWARE SCHEDULES AND SPECIFICATIONS.
3. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. COORDINATE AIMING OF ALL CAMERAS WITH THE OWNER AFTER SUBSTANTIAL COMPLETION AND BEFORE TURNOVER.
5. PRIOR TO ROUGH-IN, COORDINATE ALL AUDIOVISUAL AND TELECOMMUNICATIONS DEVICE BACKBOX LOCATIONS WITH OWNER-PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
6. DEVICES LOCATED IN GYMNASIUMS, LOADING DOCKS OR SIMILAR AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE PROVIDED WTIH PROTECTIVE GUARDS OR COVERS SUITABLE FOR THE LOCATION OR APPLICATION, AND COMPATIBLE WITH EACH DEVICE. COVERS SHALL IN NO WAY AFFECT OR REDUCE PERFORMANCE OF RADIO AND/OR WIRELESS DEVICES.
7. DEVICES SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH DIVISION 26 SPECIFICATIONS FOR PROVISIONS OF RELATED INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO: HANGERS, SUPPORTS, CONDUITS, BACKBOXES AND OTHER RACEWAYS.
8. INSTALLATION OF TELECOMMUNICATIONS CONDUITS, RACEWAY AND BENDS SHALL MEET TIA RECOMMENDED INSTALLATION METHODS AND GUIDELINES. CONDUIT BENDS SHALL BE PROVIDED WITH SMOOTH SWEEPS AND BEND RADII TO MEET MANUFACTURER RECOMMENDED TOLERANCES FOR EACH CABLE THAT WITH BE ROUTED WITHIN.
9. A MINIMUM OF SIX(6) FEET OF SLACK SHALL BE PROVIDED FOR EACH HORIZONTAL CABLE DROP AT WORK AREA OUTLETS, COILED AND SECURED ABOVE ACCESSIBLE CEILING. IN AREAS WITHOUT AN ACCESSIBLE CEILING, PROVIDE CABLING COILED TIGHT TO STRUCTURE ABOVE.
10. PROVIDE CALIBRATION, OPTIMIZATION, PROGRAMMING AND FINAL ADJUSTMENTS FOR SECURITY DEVICES SPECIFIED HEREIN.
11. EXPOSED TELECOMMUNICATIONS AND SECURITY CABLING SHALL BE ROUTED IN CONDUIT, ADHERING TO DIVISION 26 SPECIFICATIONS.

ELECTRICAL DEMOLITION NOTES

1. EXISTING ELECTRICAL DEVICES IN REGIONS OF DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE. INCLUDING BUT NOT LIMITED TO PANELBOARDS, RECEPTACLES, LIGHT FIXTURES, LIGHTING CONTROLS, TRANSFORMERS, TELECOMMUNICATION DEVICES, FIRE ALARM DEVICES, SECURITY DEVICES, AND MECHANICAL EQUIPMENT CONNECTIONS. REMOVAL SHALL BE COMPLETE INCLUDING BOXES, BRACKETS, HANGERS AND BRANCH CIRCUIT WIRING BACK TO SOURCE PANELBOARD OR LAST ACTIVE DEVICE TO REMAIN.
2. ELECTRICAL DEMOLITION PLANS ARE DIAGRAMMATIC AND NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF ELECTRICAL DEMOLITION. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING DEVICES. ADDITIONAL DEMOLITION AND MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED.
3. DEMOLITION OF EXISTING TELECOMMUNICATIONS DEVICES SHALL INCLUDE REMOVAL OF CONNECTORS, FACEPLATE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE.
4. DEMOLITION OF EXISTING SECURITY AND FIRE ALARM DEVICES SHALL INCLUDE REMOVAL OF DEVICE, CONNECTORS, MOUNTING HARDWARE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE OR LAST ACTIVE DEVICE TO REMAIN.
5. DEMOLITION OF EXISTING LIGHTING FIXTURES SHALL ALSO INCLUDE REMOVAL OF ASSOCIATED SWITCHES AND SWITCHED WIRING UNLESS OTHERWISE NOTED IN NEW WORK PLANS. LOCATIONS OF ALL SWITCHES SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION.
6. REFER TO MECHANICAL/PLUMBING DEMOLITION DRAWINGS FOR EXISTING MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. FOR THIS EQUIPMENT, DISCONNECT AND REMOVE WIRING BACK TO SOURCE AND REMOVE ASSOCIATED STARTERS, DRIVES AND DISCONNECT SWITCHES AT EQUIPMENT LOCATIONS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS TO BE REMOVED IN A SAFE, LEGAL AND RESPONSIBLE MANNER.
8. CONTRACTOR SHALL MODIFY EXISTING CIRCUITS, WHEN EXISTING DEVICES ARE REMOVED, AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.
9. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING OF EXISTING TO BE RELOCATED EQUIPMENT AND DEVICES.
11. EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED IN AREA OF WORK AND BE MAINTAINED OUTSIDE OF AREA OF WORK. MAINTAIN OPERATION OF THE EXISTING FIRE ALARM SYSTEM DURING DEMOLITION. DEVICES ARE TO BE REMOVED BACK TO NEXT DEVICE OUTSIDE THE AREA OF WORK. EXTEND CIRCUITS WITH WIRING TO MATCH EXISTING CLASS AND STYLE TO MAINTAIN CONTINUITY OF CIRCUITS UPSTREAM AND DOWNSTREAM OF THE WORK AFFECTED BY DEMOLITION. PROTECT EXISTING DEVICES DURING CONSTRUCTION. TAKE DEVICES OFF-LINE IF NECESSARY, COORDINATE BYPASSING AND REACTIVATION OF THESE DEVICES WITH OWNER. PROVIDE TESTING AND REPROGRAMMING OF SYSTEM, AND COORDINATE ACCEPTANCE TESTING WITH THE LOCAL AHJ.
12. BRANCH CIRCUITS THAT ARE EXISTING TO REMAIN OR TO BE RELOCATED IN PANELBOARDS THAT ARE BEING DEMOLISHED SHALL BE LABELED TO INDICATE WHAT THEY ARE SERVING (BASED ON EXISTING PANELBOARD DIRECTORY).
13. PANELBOARDS THAT ARE EXISTING TO REMAIN SHALL HAVE THEIR DIRECTORY UPDATED TO INDICATE CIRCUITS THAT ARE EXISTING TO REMAIN. CIRCUITS THAT HAVE BEEN REMOVED AS PART OF DEMOLITION SHALL BE INDICATED IN THE REVISED DIRECTORY AS SPARES.
14. WHERE EXISTING LIGHT FIXTURES ARE SCHEDULED FOR RELOCATION, RECONFIGURATION OR REINSTALLATION IN NEW CEILINGS, CLEAN, RE-LAMP (IF APPLICABLE) AND TEST THE FIXTURES. REPLACE DAMAGED LENSES AND DEFECTIVE BALLASTS OR DRIVERS AS NEEDED.
15. REPLACE BATTERIES FOR EMERGENCY LIGHTING UNITS THAT ARE SCHEDULED TO BE RELOCATED AND REINSTALLED.

REFER TO HEADQUARTERS BUILDING SET FOR ADDITIONAL ELECTRICAL & TECHNOLOGY SCHEDULES, DETAILS, NOTES AND SYMBOLS LISTS.

Tecton
ARCHITECTS

CES
Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

Seals

Project Status

Issues / Revisions

No.	Date	Description

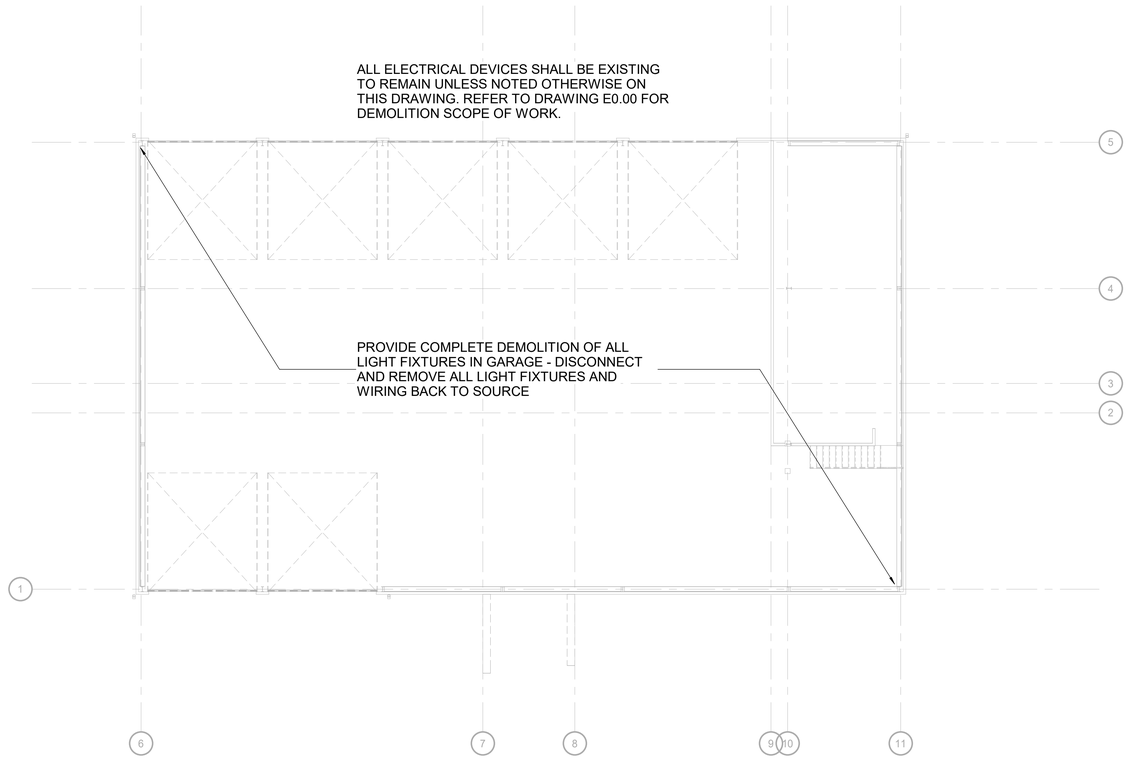
Drawing Title

ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS

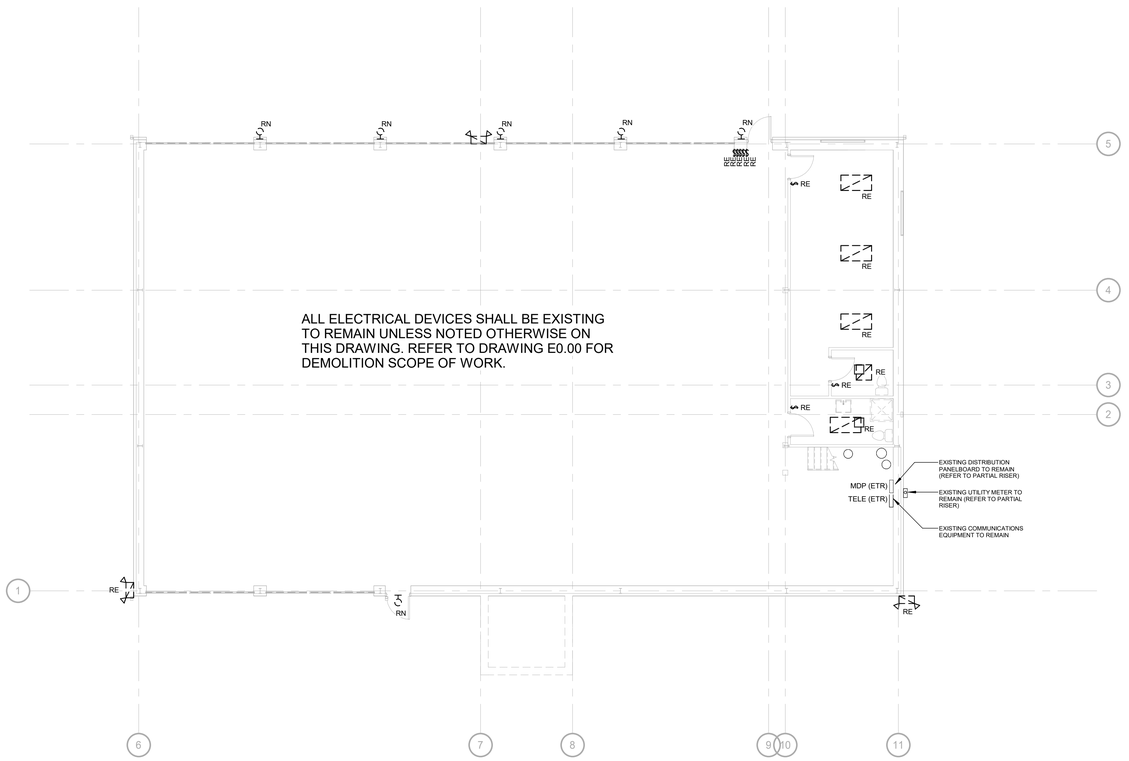
Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

E0.00



2 ELECTRICAL MEZZANINE DEMOLITION PLAN
1/8" = 1'-0"



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

Tecton ARCHITECTS

CES
Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

Drawing Title

ELECTRICAL DEMOLITION FLOOR PLAN

Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

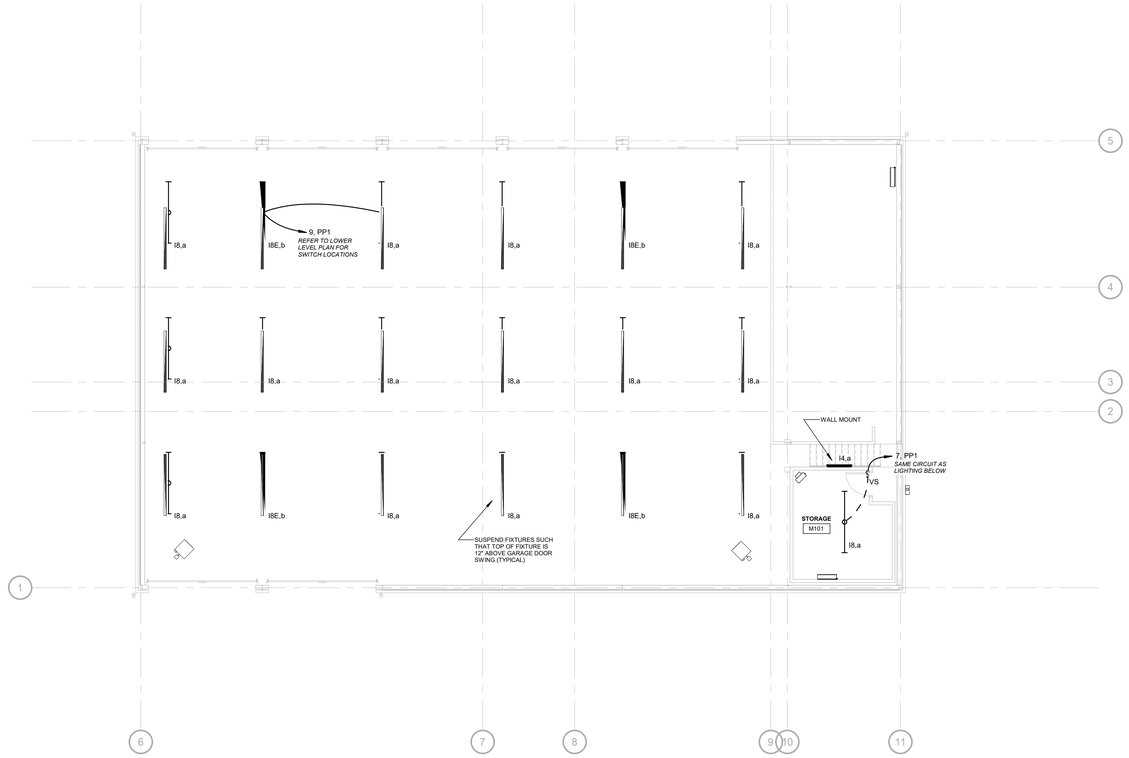
Drawing Number

ED1.10

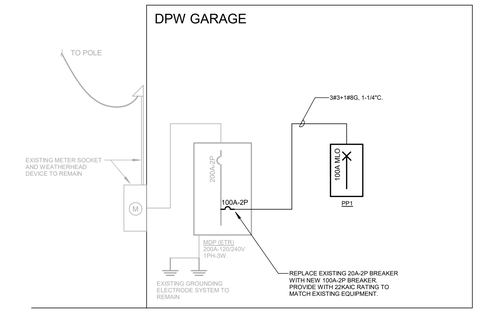
C:\Users\rheinrich\Documents\R22.2023447-MEP Central - DWP - North Brookfield Fire Station_rheinrich.rvt
2/26/2024 2:59:16 PM

KEYNOTES - ELECTRICAL POWER

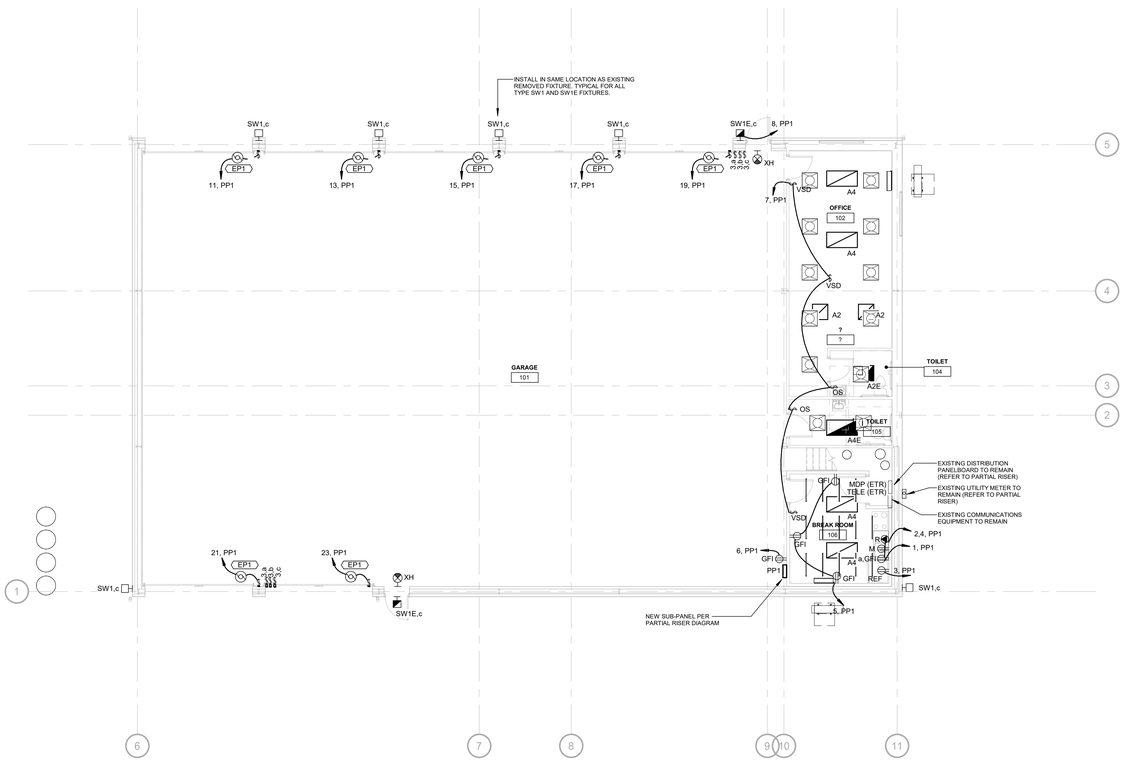
Key Value	Keynote Text
EP1	PROVIDE 120V POWER TO OVERHEAD DOOR MOTOR. ADDITIONALLY, PROVIDE CONTROL WIRING PER MFR. REQ. IN 1"C. FROM MOTOR TO CONTROL SWITCH ON WALL. MOTOR AND CONTROL SWITCH ARE FURNISHED BY DOOR CONTRACTOR, INSTALLED BY ELECTRICIAN.



2 ELECTRICAL MEZZANINE FLOOR PLAN
1/8" = 1'-0"



3 DPW BUILDING PARTIAL RISER DIAGRAM
NTS



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

Branch Panel: PP1

Location: GARAGE 101 | **Volts:** 120/240 | **A.I.C. Rating:** 22000
Supply From: MDP (ETR) | **Phases:** 1 | **Bus Material:** CU
Mounting: Surface | **Wires:** 3 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating / MLO:** MLO

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	RANGE HOOD/ COUNTER RCPT	20 A	1	1.18	4.00			2	50 A	RANGE	2
3	REFRIG. **GFCI BKR**	20 A	1			1.00	4.00	--	--	--	4
5	RCPT - BREAK ROOM	20 A	1	0.54	0.18			1	20 A	RCPT - NEAR PANEL	6
7	LTG - OFFICES	20 A	1			0.43	0.16	1	20 A	LTG - WALL PACKS	8
9	LTG - GARAGE	20 A	1	1.14	0.00			1	20 A	SPARE	10
11	OVERHEAD DOOR	20 A	1			0.50	0.00	1	20 A	SPARE	12
13	OVERHEAD DOOR	20 A	1	0.50	0.00			1	20 A	SPARE	14
15	OVERHEAD DOOR	20 A	1			0.50	0.00	1	20 A	SPARE	16
17	OVERHEAD DOOR	20 A	1	0.50	0.00			1	20 A	SPARE	18
19	OVERHEAD DOOR	20 A	1			0.50	0.00	1	20 A	SPARE	20
21	OVERHEAD DOOR	20 A	1	0.50	0.00			1	20 A	SPARE	22
23	OVERHEAD DOOR	20 A	1			0.50	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	28
29	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	30
31	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	32
33	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	40
41	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	42
			Plase Load:	8.54 kVA		7.59 kVA					
			Phase Amps:	71.1 A		63.2 A					
			Total Load:	16.12 kVA							
Notes:			**Total Amps:**	67.18 A							

Tecton ARCHITECTS

CES Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #XXXXX.XX

Client/ Contractor

TOWN OF NORTH BROOKFIELD

Street Address
City, State

Project

NORTH BROOKFIELD FIRE HEADQUARTERS

56 SCHOOL STREET
NORTH BROOKFIELD, MA 01535

PROJECT NORTH

Seals

Project Status

Issues / Revisions

No.	Date	Description

Drawing Title

ELECTRICAL FLOOR PLAN

Project Manager:	PM	Project No:	NBR02AR.01
Project Architect:	PA	Production Leader:	PL
Project Designer:	ID	Peer Reviewer:	PR

Drawing Number

E2.10