LYMES' SENIOR CENTER RENOVATION

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CM REF - 07.19.23

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C0.3	EROSION AND SEDIMENT CONTROL NOTES
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E2.5	Unnamed
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SP.01	PROPOSED LANDSCAPE PLAN
SP.02	PROPOSED LANDSCAPE DETAILS

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NOT FOR CONSTRUCTION PROGRESS

CM REFERENCE SET: JULY 19, 2023

POA Project Number: 790

ABBREVIATIONS

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

SYMBOLS

ROOM NAME 0000 — ROOM TAG

0000 — DOOR TAG

X — WINDOW TAG

X — WALL TAG

X — WORK SCOPE TAG

X / X XX X / X — INTERIOR ELEVATION TAG

X — MULTI-CATEGORY TAG (TYPE MARK)

1 / A101 Ref — BUILDING SECTION

1 / A101 Ref — WALL SECTION

1 / A101 Ref — DETAIL TAG

X — REVISION TAG

REFERENCE POINT

ACCESSIBLE SPACE/ITEM

ACCESSIBLE EXIT/ENTRANCE

MATERIALS

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING WALL/ITEM TO BE REMOVED
- CONCRETE
- CONCRETE MASONRY UNITS
- BRICK
- STONE
- METALS
- COMPACTED GRAVEL
- EARTH/COMPACTED FILL
- FINISH WOOD
- CONTINUOUS WOOD BLOCKING
- SHIM
- PLYWOOD
- BATT INSULATION
- RIGID INSULATION
- ACOUSTIC TILE
- RESILIENT FLOORING/ PLASTIC LAMINATE
- AIR AND VAPOR BARRIER/ DAMPPROOFING

GENERAL NOTES

1. ACCESSIBILITY NOTE: THIS BUILDING WILL BE DESIGNATED AN ACCESSIBLE FACILITY, ALL PROGRAM AREAS ARE ACCESSIBLE TO PERSONS WITH DISABILITIES. ACCESSIBLE ROUTES SHALL CONNECT BUILDINGS, FACILITIES, ELEMENTS, SPACES, PARKING, PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS. ACCESSIBLE ROUTES SLOPES SHALL BE 1:20 (5%) OR LESS AND CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVEL SHALL NOT BE GREATER THAN 1/2" AND SLOPE SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED. ACCESSIBLE EXITS MUST BE CLEARLY IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE ACCESSIBLE ROUTES SHALL HAVE 36" MINIMUM CLEARANCE THROUGHOUT (32" CLEARANCE AT DOORWAYS).
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT
3. INTERIOR DIMENSIONS ARE TO THE FACE OF NEW OR EXISTING STUD UNLESS NOTED OTHERWISE.
4. SEE DRAWING CD1.0 FOR CODE INFORMATION.
5. SEE WALL TYPES SHOWN ON THIS DRAWING (00.01).
6. SEE DRAWING A5.03 AND A5.04 FOR MILLWORK DETAILS.

SITE LOCATION AND ZONING INFORMATION

PROJECT ADDRESS:
26 Towns Woods Road
Old Lyme, CT

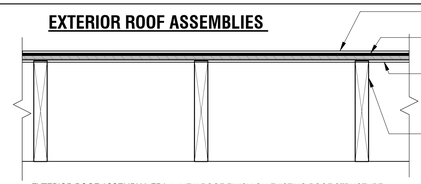
ZONE:
Zone Type: RU-80
Flood Zone: None

BUILDING CODE:
2021 CT BUILDING CODE
2021 IBC
2009 ANSI A117.1

N

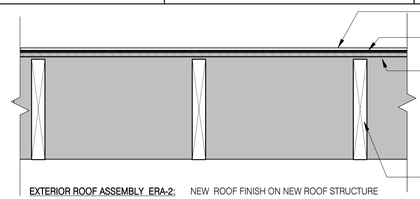
EXTERIOR ROOF ASSEMBLIES

ERA-1



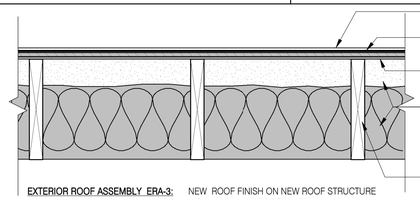
EXTERIOR ROOF ASSEMBLY ERA-1: NEW ROOF FINISH ON EXISTING ROOF STRUCTURE

ERA-2



EXTERIOR ROOF ASSEMBLY ERA-2: NEW ROOF FINISH ON NEW ROOF STRUCTURE

ERA-3



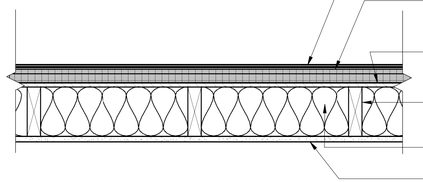
EXTERIOR ROOF ASSEMBLY ERA-3: NEW ROOF FINISH ON NEW ROOF STRUCTURE INSULATION AT ROOF STRUCTURE

PLAN LEGEND

- NEW CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING WALL/ITEM TO BE REMOVED
- 1HR. FIRE-RATED WALL CONSTRUCTION (TIGHT TO UNDERSIDE OF STRUCTURE ABOVE)

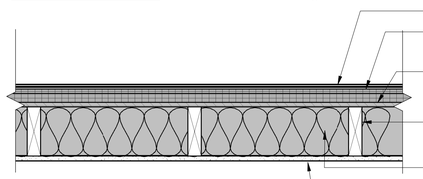
EXTERIOR WALL ASSEMBLIES

EWA-1



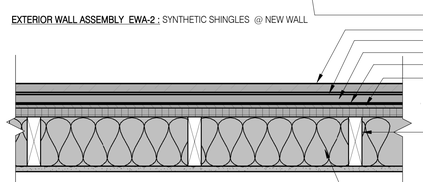
EXTERIOR WALL ASSEMBLY EWA-1 : NEW SYNTHETIC SHINGLES & ZIP C.I. @ EXISTING WALL

EWA-2



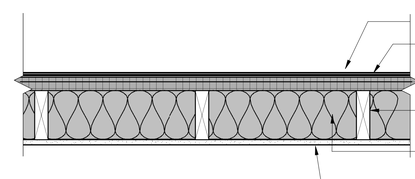
EXTERIOR WALL ASSEMBLY EWA-2 : SYNTHETIC SHINGLES @ NEW WALL

EWA-3



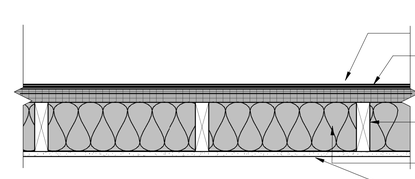
EXTERIOR WALL ASSEMBLY EWA-3 : THIN STONE VENEER @ SEGMENTED WALL

EWA-4



EXTERIOR WALL ASSEMBLY EWA-4 : TYP. CUPOLA WALL

EWA-5



EXTERIOR WALL ASSEMBLY EWA-5 : PANEL FINISH @ UPPER PORTION OF SEGMENTED WALL

Insulation Strategy
per CT Commercial Energy Code, ASHRAE 90.1, 2019, Table 5.5
Bldg Envelope Requirements, Zone 5

Roof: min. R-49
@ Proposed trusses: 14" Batt Insulation @ R-3.7 per inch = R-51
@ Proposed 2x framed: 4" closed cell spray foam insulation @ R-6 per inch = R-24 + 8" Batt Insulation @ R-3.7 per inch = R-29.6 = total R-53

Walls: Wood framed, R-19+R-5ci
Cavity: 5.5" Batt Insulation @R-3.7 per inch = R-20
Continuous Insulation: Zip 1.5" exterior R-6

Floor: Slab on Grade, heated R-20 for 48"
New slab on grade: 4" rigid insulation @ R-5 per inch = R-20

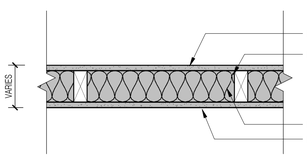
ALTERNATE #1: FRAMING ALTERNATE

CONTRACTOR MAY FRAME ALL NON-LOADBEARING PARTITIONS AND CEILING SOFFITS WITH LIGHT GAUGE METAL FRAMING IN LIEU OF WOOD FRAMING. COORD. WITH ARCHITECT

WALLS: 3 5/8" METAL STUDS @ 16" O.C. W/ EXPANSION TRACK @ TOP.

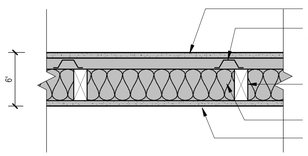
IF ALT. #1 SELECTED, CONTRACTOR TO COORDINATE WIDTH @ WOOD DOOR JAMBS

INTERIOR WALL PARTITIONS



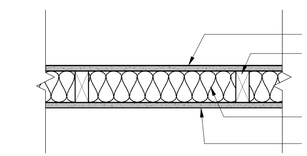
INTERIOR PARTITION TYPE 1 : NEW WOOD STUD WALL

TYPE	STUD SIZE	FIRE RATED	FACE LAYER		INSUL.
1A	2X4	-	1(GYP)	1(GYP)	BATT
1B	2X4	-	1(GYP)	1(GYP)	ACOUSTIC BATT
1C	2X6	-	1(GYP)	1(GYP)	ACOUSTIC BATT
1D	2X4	-	1(GYP)	CEMENT BOARD/ TILE	BATT
1E	2X4	-		1(GYP)	BATT



INTERIOR PARTITION TYPE 2 : NEW WOOD STUD WALL SOUNDPROOFING SYSTEM

TYPE	STUD SIZE	FIRE RATED	FACE LAYER		INSUL.
2A	2X4	-	1(GYP)	1(GYP)	BATT
2B	2X6	-	1(GYP)	1(GYP)	-
2C	2X4	-		1(GYP)	-



INTERIOR PARTITION TYPE 3 : EXISTING WOOD STUD WALL WITH NEW GWB + BATT INSUL

TYPE	STUD SIZE	FIRE RATED	FACE LAYER		INSUL.
3A	EXIST	-	NEW 1(GYP)	NEW 1(GYP)	NEW BATT
3B	EXIST		NEW 1(GYP)	CEMENT BACKER BOARD W/ TILE FINISH	NEW BATT

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TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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STAMP:

CM REFERENCE

NOT FOR CONSTRUCTION

DRAWING NAME:
ABBREVIATION, GRAPHIC LEGEND, SYMBOL LEGEND, PARTITION TYPES

SCALE: As indicated

SHEET: 00.01

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Preliminary Code Analysis

Date Prepared: 06.15.23
Prepared By: KJ
Checked By: GN & RS

Project Information

Project Name: Lymes' Senior Center Renovation
Project Number: 790
Project Address: Towns Woods Road
City, State, Zip: Old Lyme, CT

Applicable Codes

The following codes will apply:

- 2022 Connecticut State Building Code, consisting of:
  - 2021 International Existing Building Code, with CT amendments (IEBC)
  - 2021 International Building Code, with CT amendments (IBC)
  - 2021 International Plumbing Code, with CT amendments
  - 2021 International Mechanical Code, with CT amendments
  - 2021 International Energy Conservation Code, with CT amendments
  - 2017 ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities, with CT amendments
  - 2020 NFPA 70, National Electrical Code, of the National Fire Protection Association Inc., with CT amendments
- 2022 Connecticut State Fire Safety Code (CSFSC), consisting of:
  - 2021 International Fire Code, with CT amendments for new construction
  - 2021 NFPA 101 Life Safety Code, with CT amendments, for existing conditions to remain
- 2010 Americans with Disabilities Act Standards for Accessible Design (ADASAD)
- Occupational Safety and Health Administration
- Other codes and standards are in effect as referenced by the above documents.

CODE COMPLIANT APPROACH SUMMARY

Building Description:
The existing building was constructed in approximately 1995 and architectural drawings refer it to IBC Type VB, unprotected combustible, Construction. Existing, single story non-sprinklered, radiant slab on grade, wood framed (wood truss roof) building. The area at grade level has approximately 5,500 square feet 1 story. The grade level is an existing Senior Center and the building is currently classified as mixed uses of A-3 (Assembly) and B (Business). Building Use and Classification are to remain. Building has an existing fire alarm system and ancillary box in the front vestibule.

Approach:
This Project involves a building renovation and two building additions on to the existing one story building. The existing fire resistance rated wall, floor and roof assembly integrity will remain. Any new shafts or additions will comply with the following standards. The renovation consists of adding a new automatic fire sprinkler system to the building. Plumbing fixture's locations will remain and be updated. Two new plumbing fixture locations will be added during the renovation. Fire alarm system will be updated to the renovation work, and ancillary box will be moved to the new vestibule location. Existing

GENERAL INFROMATION

Occupancy Classification:

Occupancies are assumed to be:

A3- Assembly &
B – Business

Change of Occupancy? ☐ Yes ☒ No

Notes: no change

Incidental Use Areas? ☐ Yes ☒ No

Mixed Occupancies? ☒ Yes ☐ No
Notes: Accessory Occupancies
- 508.2.4 * 508.3.3 – No Separation is required

Special Use or Occupancy? ☐ Yes ☒ No

Stories / Height:

Base Allowable Height (feet): (Table 504.3) — 40 FT (non sprinklered) / 60 FT (sprinklered)

Total Allowable Number of Stories (S): (Table 504.4) — 2 Stories (A-3)

Existing ☒ Yes ☐ No
- Stories — 1 Stories (existing to remain)
- Feet — Existing - approximately 26 FT; Proposed - approximately 36 FT (added cupula)

Gross Floor Area:

A. Allowable Area per Floor:
1. Per Table 506.2: 24,000 SF (A-3 sprinklered)
   - A-3 – Type VB – S1 (Sprinklered one story) = 24,000
   - 507.4 – Group B, One Story, w/ automatic sprinkler system = Area not to be limited

B. Proposed Area Calculations:

Existing First Floor to remain:	approximately 5,472 sqft
Proposed First Floor Interior Addition:	approximately 3,265 sqft
Proposed Covered Exterior Addition:	approximately 1,150 sqft
Proposed Façade Addition on Existing	approximately 33 sqft – Req'd Energy Code
	9,919 sqft TOTAL

OCCUPANT LOAD

Design Occupant loads are the greater of either the actual number of persons in the space or the occupant loads based on the following. (Table 1004.1.2)

FUNCTION OF SPACE	OCC. FACTOR
Waiting Areas	One person per 15 gsf
Assembly Unconcentrated (tables and chairs)	One person per 15 nsf
Business Area	One person per 150 gsf
Classroom Area	One person per 20 nsf
Library – Read Rooms	One person per 50 nsf
Accessory Storage & Mechanical Rms	One person per 300 gsf
Kitchen Commercial	One person per 200 gsf

Preliminary occupant load calculations are as follows areas are approximate.

FLOOR	SPACE	USE GROUP	FUNCTION OF SPACE	FACTOR	AREA	OCC. LOAD	REMARK!
1	Vestibule	A-3	Waiting Area	1:15 gsf	66	5	
	Greeter	A-3	Waiting Area	1:15 gsf	219	15	
	Quite Room	A-3	Library - Reading Room	1:50 nsf	228	5	
	Sm. Multipurpose	A-3	Classroom Area	1:20 nsf	410	21	
	Activity Room	A-3	Assembly - Unconcentrated	1:15 nsf	893	60	
	Lg. Multipurpose	A-3	Assembly - Unconcentrated	1:15 nsf	1,553	104	
	Med. Multipurpose	A-3	Assembly - Unconcentrated	1:15 nsf	1,429	96	
	Covered Porch	A-3	Assembly - Unconcentrated	1:15 nsf	337	23	
	Kitchen Expansion	A-3	Assembly - Unconcentrated	1:15 nsf	207	14	
	Kitchen (exist.)	B	Kitchen, Commercial	1:200 gsf	403	3	
	Offices	B	Business	1:150 gsf	564	5	
	Service Room	B	Business	1:150 gsf	119	1	
	Mech. Room	S	Accessory Storage & Mech Rm	1:300 gsf	76	1	
				TOTAL 1 FLOOR	352		
				TOTAL BUILDING	352		

*per section 1004.4 for areas having fixed seats & aisles, the occupant load shall be determined by the number of fixed seats

EGRESS

Number of Means of Egress: 1-2 Exist required per space, varies by space & function
Minimum clear width of door openings is 32 inches or 0.2 inches per person

Min. Number of Exist/Per Story:
Occupant Load Per Story 1 is 500 = 2 Exist required per story
Table 1006.3.1

Max. Occupant Load of Space:
Occupant load > 49 (B-Business & A-3-Assembly) - Table 1006.2.1 Two exist are required

Travel Distance to Nearest Exit: 250 FT Max. Permitted (with Sprinkler) – Table 1017.2)
Path A 82 FT 2 IN Provided

Aisles: (1018) 44 IN Minimum (Table 1020.2)

- Assembly Aisles Accessways (1029.12.1) 19 IN Req'd Clear width from table parallel edge
- Dead End Aisles 20 FT Min.

Corridors Fire Resistance Rating: 0 HR – Assembly w/ Sprinklers - Table 1020.1)

Dead End Corridors: (1020.4) 20 FT Maximum Permitted

Max. Common Path of Egress Travel Distance: 75 FT Maximum Permitted (with Sprinklers) (A-3 Assembly) - Table 1006.2.1

Doors, Ramps And Corridors: .2" PER PERSON (Section 1005.3.2)

Doors: 32" clear minimum (Section 1008.1.1) No Change
Ramps & Level components: 36" clear minimum between handrails (Section 1010.6.1) N/A
Corridors: 44" minimum (Table 1018.2)

Open Stairway: NONE

Exit Separation: (1007.1.1) Min of 1/3 of total diagonal building length (Sprinklered, Exception #2)

Proposed diagonal = 130 FT .5 IN / 3 = 43 FT 3 IN MIN.

68 FT 9 IN Provided

Means of Egress illumination: (1008) Required – The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied. (1008.2)

Luminous Egress path: System is not required in existing building of any occupancy undergoing alterations. (1025.6 Statutory requirement for exit access corridors)

Is the project required to have Emergency Escape and Rescue? ☐ Yes ☒ No

FIRE RESISTANCE RATED CONSTRUCTION – No Change

Construction Type/Classification(s): Type Five - B (Wood Structure) (VB)

Table 601 Fire Rating building elements, Structure, bearing & non bearing walls, Floors, and Roof = 0 hours rated

Occupancy Separation: ☐ Yes ☐ Existing ☒ No

Barriers to Fire and Smoke Spread (Table 601-602)

A. Structural Frame 0 hour - Existing
   (including columns, girders & trusses)
B. Loadbearing Walls
   (Exterior) 0 hour - Existing
   (Interior) 0 hour - Existing
C. Non-loadbearing Walls
   (Exterior) 0 hour - Existing
   (Interior) 0 hour - Existing
D. Floor Construction 0 hour - Existing
   (including supporting beams & joists)
E. Roof Construction 0 hour - Existing
   (including supporting beams & joists)
F. Fire walls and Party walls N/A (Table 706.4) - Existing
   (including structural members)
G. Fire Barriers N/A (Section 707.3.10)
H. Smoke Barriers N/A (Section 709.3)
I. Exit Access Corridors Sprinklered (Section 1018.1)
J. Fire Enclosure of Exit Stairs N/A (Section 1022.2)

K. Shafts and Elevator Hoistways N/A (Section 713.4) –
Other: Kitchen Exhaust Hoods: Section 302.2 of the International Mechanical Code
Existing to remain

INTERIOR FINISH

Interior Wall and Ceiling Finish Requirements: (table 803.13)
Use Group A-3 - SPRINKLERED:
A. Vertical Exits - Class B (Flame Spread X-X; Smoke Developed 0-450)
B. Exit Access Corridors - Class B (Flame Spread X-X; Smoke Developed 0-450)
C. Rooms/Enclosed Spaces - Class C (Flame Spread X-X; Smoke Developed 0-450)

Interior Floor Finish Requirement: (table 804.4)

A. Class II – automatic sprinkler system

FIRE PROTECTION SYSTEMS

Automatic Sprinklers: (Section 903) ☒ Yes ☐ Existing ☐ No

New Automatic Sprinkler system will be installed

Detection & Alarm: (Section 907) ☐ Yes ☒ Existing ☐ No

Notes: Existing Alarm system to be configured to new layout, and added to as required within new additions. Existing Auxiliary panel to be relocated in new vestibule

Fire Extinguishers: (Section 906) ☐ Yes ☒ Existing ☐ No

Notes: To be mounted at locations per authorizing local Fire Marshall

ACCESSIBLITY

Scope:
- Providing two ADA compliant bathroom
- Automatic entrances to be within 10 FT of entrance

PLUMBING FIXTURES (Table 2902.1, 2015 International Plumbing Code Table 403.1)

Plumbing Fixtures factors are as follows:

OCC.	MALE WC	FEMALE WC	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
A-3	1 per 125	1 per 65	1 per 200	1 per 500	1

Minimum Number of Required Plumbing Facilities based on the occupant loads

OCC.	OCC. LOAD	MALE WC	FEMALE WC	UNISEX	LAV	DF	SS
A-3	352 / 2 = 176	1.4 = 2	2.7 = 3		1.76 =2	1 per 500	1
	PROVIDED	2 WC, 1 U	2 WC	1 WC	3 Provided	1 Provided	1

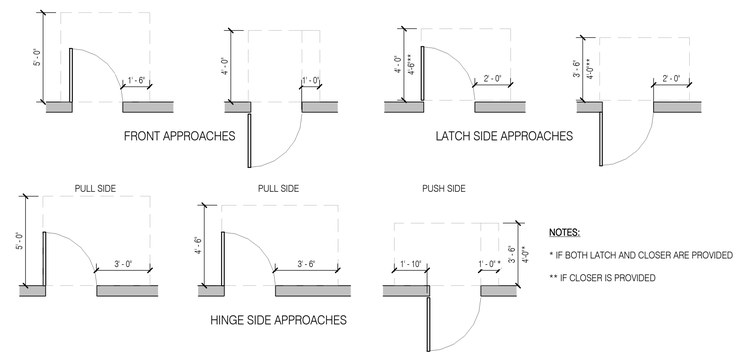
Notes:

REHABILITATION OF EXISTING STRUCTURE

Is the project a rehabilitation of an existing structure? ☒ Yes ☐ No

Classification of Work:
Level 3 Alteration Per IEBC 505.1

- ☐ Repair
- ☒ Renovation
- ☒ Alteration
- ☐ Reconstruction
- ☐ Change of Occupancy
- ☒ Addition
- ☐ Historic Building
- ☐ Relocated Buil



DOOR CLEARANCES

1/4" = 1'-0"

LYMES' SENIOR CENTER RENOVATION

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TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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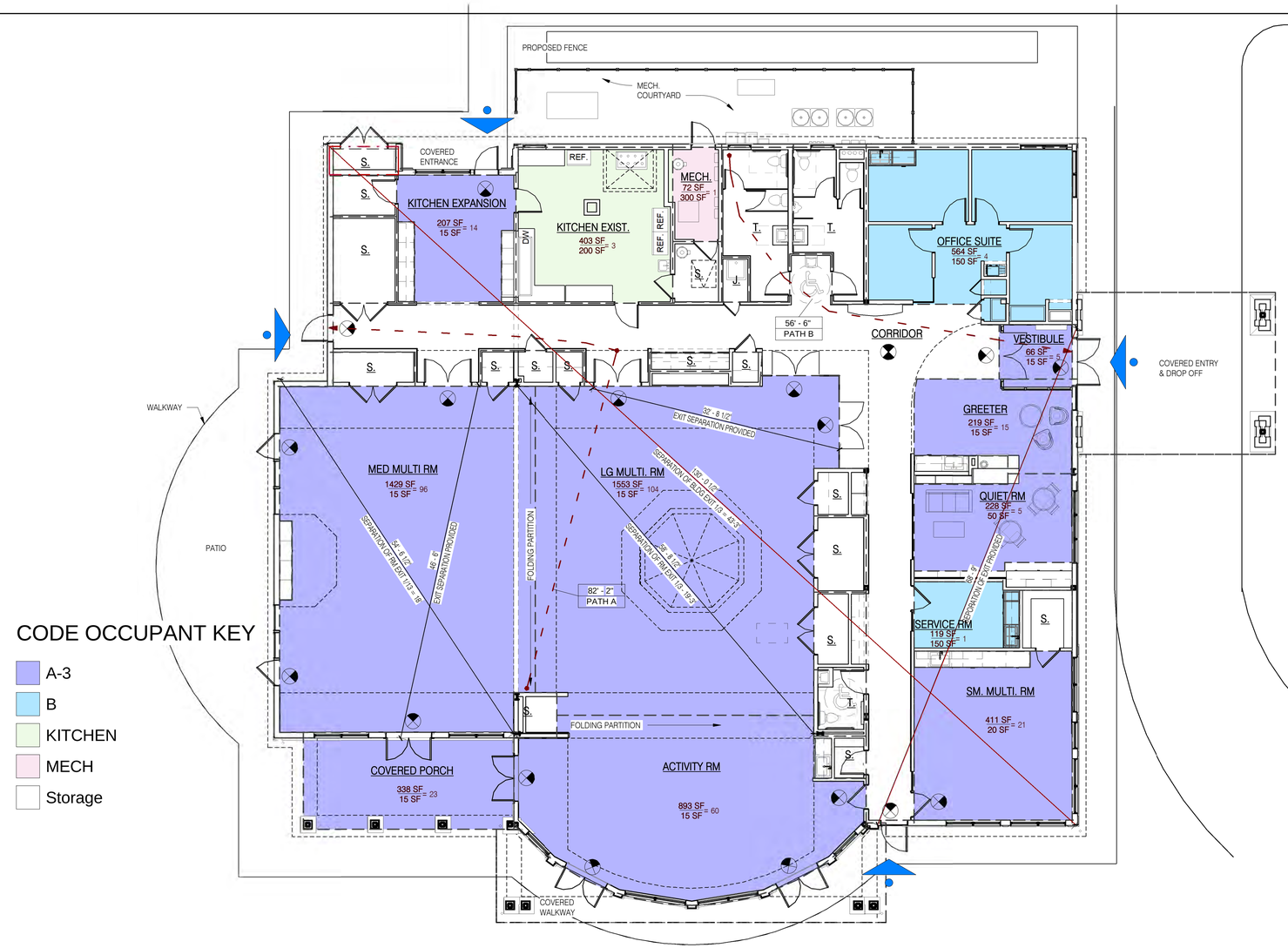

CODE OCCUPANT KEY

- A-3
- B
- KITCHEN
- MECH
- Storage

NOTES

1. LEVEL 3 ALTERATIONS PER IEBC 505.1
2. PROPOSED NEW SPRINKLER SYSTEM
3. G.C TO VERIFY EXIST FEC LOCATIONS IF REQ'D. COORDINATE WITH FIRE MARSHALL NEW LOCATION.
4. G.C. EMERGENCY EXIT SIGN LOCATIONS IF REQ'D COORDINATE WITH FIRE MARSHAL NEW MOUNTING LOCATION

OCCUPANT CLASSIFICATION:

ASSEMBLY - A3
BUISNESS - B

OCCUPANT LOADS

Name	Area	Occupancy Category	Load Factor	Occupancy Load Rounded
A-3				
KITCHEN EXPANSION	211 SF	A-3	15 SF	15
VESTIBULE	65 SF	A-3	15 SF	5
GREETER	219 SF	A-3	15 SF	15
QUIET RM	228 SF	A-3	50 SF	5
SM. MULTI. RM	410 SF	A-3	20 SF	21
ACTIVITY RM	893 SF	A-3	15 SF	60
LG MULTI. RM	1555 SF	A-3	15 SF	104
MED MULTI RM	1431 SF	A-3	15 SF	96
COVERED PORCH	337 SF	A-3	15 SF	23
				344
B				
OFFICE SUITE	564 SF	B	150 SF	4
SERVICE RM	119 SF	B	150 SF	1
				5
KITCHEN				
KITCHEN EXIST.	403 SF	KITCHEN	200 SF	3
				3
MECH				
MECH.	76 SF	MECH	300 SF	1
				1
				353

CODE REVIEW PLAN SYMBOLS LEGEND

ROOM NAME (0000) — ROOM NAME; ROOM NUMBER

1000 SF / 100 SF = 10P — ROOM OCCUPANCY LOAD: AREA SF; NUMBER OF OCCUPANTS; OCCUPANCY LOAD FACTOR (sf/occupant)

0 / 0 — EXIT CAPACITY: ACTUAL EGRESS OCCUPANT LOAD; MAXIMUM ALLOWABLE OCCUPANT LOAD

ACCESSIBLE AREA, EXIT, OR ROUTE ACCESSIBLE ROUTES: SLOPES SHALL BE 1:20 (5%) OR LESS & THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVEL SHALL NOT BE GREATER THAN 1/2" & SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.

EXIT/STAIR # XX / XX Occ. Load / XXX Occ. Capacity / XXX/ XX = XXX — EXIT/STAIR DESCRIPTION; OCCUPANTS: OCCUPANTS EXITING; OCCUPANT LOAD CAPACITY; DOOR OR STAIR WIDTH: REQUIRED WIDTH / PROVIDED WIDTH

XXX — DIRECTION OF EGRESS TRAVEL WITH ACCUMULATED OCCUPANCY LOAD

250' MTD — MAXIMUM EXIT TRAVEL DISTANCE FROM FURTHEST POINT

75' CPT — MAXIMUM COMMON PATH OF TRAVEL

1HR. FIRE-RATED WALL CONSTRUCTION (TIGHT TO UNDERSIDE OF STRUCTURE ABOVE)

SMOKE TIGHT WALL CONSTRUCTION (TIGHT TO UNDERSIDE OF STRUCTURE ABOVE)

1 HOUR FLOOR, CEILING & STRUCTURE SUPPORT ASSEMBLY ABOVE - SPRAY APPLIED FIREPROOFING AT ALL COLUMNS & BEAMS - NOT REQUIRED AT DECKING

EXIT/ENTRY LOCATION - EGRESS LOCATIONS

ACCESSIBLE TURNING
ADA TURNING RADIUS
5' 0" DIAMETER- CLEAR

ADA T SHAPED TURNING SPACE
5'-0 x 5'-0

ACCESSIBLE CLEAR AREA
2'-6" x 4'-0" CLEAR (TYP.)
3'-0" x 4'-0" CLEAR (@ AREA OF REFUGE)

FEC — FIRE EXTINGUISHER (RECESSED)

EXIT — FLOOR PROXIMITY EXIT SIGN

ACCESSIBLE EXIT/ENTRANCE FLUSH CONDITION

N

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SHEET: CD1.01

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No. _____

TOWN OF LYME, CONNECTICUT
TOWN OF OLD LYME, CONNECTICUT

LYMES' SENIOR CENTER

26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

NOVEMBER 2022

CONTRACT DRAWINGS

DESIGN DEVELOPMENT PRICING SET

PREPARED FOR:

THE TOWN OF LYME AND THE TOWN OF OLD LYME

PREPARED BY:

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SCHEDULE OF DRAWINGS

SHEET No.	TITLE
C0.1	TITLE SHEET
C0.2	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
C0.3	EROSION AND SEDIMENT CONTROL NOTES
C1.1	ORTHOPHOTOGRAPH VICINITY PLAN
C1.2	EXISTING CONDITIONS PLAN
C2.1	SITE PREPARATION PLAN
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C3.4	DETAILS
C3.5	DETAILS
EX1	EXISTING FLOOR PLANS
EX2	EXISTING ELEVATIONS
A1	PROPOSED PLANS
A2	PRELIMINARY CODE ANALYSIS
A3	PROPOSED ELEVATIONS
A4	FURNITURE LAYOUTS I
A5	FUTNITURE LAYOUTS II
A6	PROPOSED LANDSCAPE PLAN
A7	LYMES' SENIOR CENTER PERSPECTIVES

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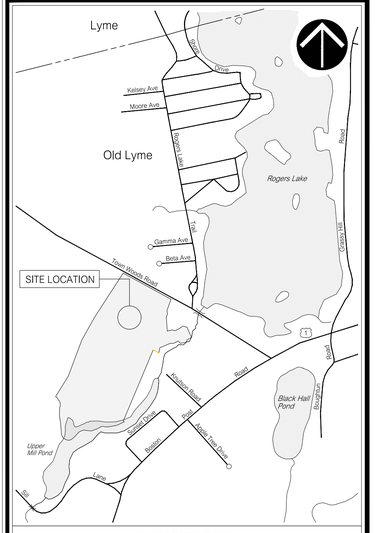


LOCATION PLAN
SCALE: 1"=1000'

1000 500 0 1000 2000
(IN FEET)

REVISED: 1 1-15-23 MISCELLANEOUS

SHEET No.: C0.1

ABBREVIATIONS

Ac.	ACRE
ACP	ASBESTOS CEMENT PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
A.O.B.E.	AS ORDERED BY ENGINEER
B&B	BALLED & BURLAPPED
BIT.	BITUMINOUS
BM	BENCHMARK
B.O.F.	BOTTOM OF FOOTING
CATV	CABLE TELEVISION
CB	CATCH BASIN
C.C.	CENTER TO CENTER
C.C.S.	CONNECTICUT COORDINATE SYSTEM
CFS	CUBIC FEET PER SECOND
CHD	CONNECTICUT HIGHWAY DEPARTMENT
CIP	CAST IRON PIPE
CJ	CONSTRUCTION OR CONTRACTION JOINT
CL	CLEAR
C.L.&P.	CONNECTICUT LIGHT AND POWER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
CPEP	CORRUGATED POLYETHYLENE PIPE
C.Y.	CUBIC YARD
DBL.	DOUBLE
DH	DRILL HOLE
DI	DUCTILE IRON
DIA.	DIAMETER
DIP	DUCTILE IRON PIPE
EA.	EACH
EJ	EXPANSION JOINT
EL.	ELEVATION
E.O.B.	END OF BORING
EOP	EDGE OF PAVEMENT
EQ.	EQUAL
EX.	EXISTING
f'_c	MINIMUM COMPRESSIVE STRENGTH
f_y	YIELD STRENGTH OF STEEL REINFORCEMENT
F.F.	FINISH FLOOR
FM	FORCE MAIN
FND.	FOUND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET OR FOOT
GA.	GAUGE
GAL	GALLON
H	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HTL	HIGH TIDE LINE
I.D.	INSIDE DIAMETER
INV.	INVERT
I.P.	IRON PIN/PIPE
KSF	KIPS PER SQUARE FOOT
L	LENGTH
LB	POUND
L.F.	LINEAR FEET
L.S.	LUMP SUM
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
MON.	MONUMENT
N/F	NOW OR FORMERLY
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.C.	POINT OF CURVATURE
P.C.C.	POINT OF COMPOUND CURVATURE
PE	PLAIN END OR POLYETHYLENE
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVATURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
PVCC	POINT OF VERTICAL COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVATURE
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCCE	REINFORCED CONCRETE CULVERT END
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT-OF-WAY
R.R.	RAILROAD
RT	RIGHT
R/W	RETAINING WALL
SAN	SANITARY
SCG	SOUTHERN CONNECTICUT GAS
SCH.	SCHEDULE
SDR	STANDARD DIMENSION RATIO
S.F.	SQUARE FOOT
SNET	SOUTHERN NEW ENGLAND TELEPHONE
S.S.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
S.Y.	SQUARE YARD
T&B	TOP AND BOTTOM
T.F.	TOP OF FRAME
T.G.	TOP OF GRATE
T.O.F.	TOP OF FOOTING
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.I.	UNITED ILLUMINATING
V	VERTICAL
VCP	VITRIFIED CLAY PIPE
WF	WETLAND FLAG

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
BASELINE		1+00
ELEVATION CONTOUR		100
ELEVATION	× 100.0	+ 100.0
EDGE OF PAVEMENT		
CURBING		
GUIDE RAIL		
TREE LINE		
MAILBOX		
SIGN		
LIGHT POST		
UTILITY POLE (W/GUY)		
UTILITY POLE (W/LIGHT)		
HYDRANT		
CHAIN LINK FENCE		
WIRE FENCE		
WOOD FENCE		
STONE WALL		
HEDGEROW		
WATERCOURSE		
INLAND WETLAND BOUNDARY		
TIDAL WETLAND BOUNDARY		
COMMUNICATIONS	C	C
ELECTRIC	E	E
GAS MAIN/SERVICE	G	G
WATER MAIN/SERVICE	W	W
OVERHEAD UTILITY WIRE(S)	OHW	
SANITARY SEWER ≤ 12" DIAMETER		
SANITARY SEWER > 12" DIAMETER		
STORM SEWER ≤ 12" DIAMETER		
STORM SEWER > 12" DIAMETER		
CATCH BASIN		
MANHOLE		
SURVEY CONTROL STATION		
TEST PIT		
BORING		
PROBE		
ASSESSOR'S MAP NO.-LOT NO.	49-50	
SOIL TYPE	87B	
SOIL TYPE BOUNDARY		
FLOODPLAIN BOUNDARY		
CLEARING LIMIT LINE		
LIMIT OF CUT		C
LIMIT OF FILL		F
PAVEMENT REMOVAL LINE		
SEDIMENTATION CONTROL BARRIER		
SEDIMENTATION CONTROL AT DRAINAGE STRUCTURE		
DECIDUOUS TREE		
CONIFEROUS TREE		
SHRUB		
TREE TO BE REMOVED		

W20-1 (80-9602)

MUTCD SIGN NO. — CONNDOT SIGN NO.

SOIL TYPE LEGEND

REFERENCE:
NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE

MAP UNIT SYMBOL	MAP UNIT DESCRIPTION
13	WALPOLE SANDY LOAM, 0 TO 3 PERCENT SLOPES
703A	HAVEN SILT LOAM, 0 TO 3 PERCENT SLOPES

GENERAL NOTES:

1. THESE DRAWINGS ARE INTENDED TO BE USED FOR MUNICIPAL, STATE, AND/OR FEDERAL LAND USE AND ENVIRONMENTAL PERMITTING PURPOSES AND ARE NOT INTENDED TO BE USED AS CONSTRUCTION DOCUMENTS.

2. TOPOGRAPHIC AND PLANIMETRIC INFORMATION DEPICTED HEREIN IS BASED ON INFORMATION REPRODUCED FROM THE FOLLOWING MAPS:

   (A) "PROPERTY SURVEY OF LAND OF TOWN OF OLD LYME TOWN WOODS ROAD OLD LYME, CONNECTICUT", DATE: 9-26-01, SCALE: 1"=100', PREPARED BY: RICHARD W. GATES, L.S., FILED IN THE OFFICE OF THE TOWN OF OLD LYME TOWN CLERK AS MAP NO. 3157.

   (B) "TOPOGRAPHIC SURVEY SENIOR CENTER TOWN OF OLD LYME & TOWN OF LYME TOWN WOODS ROAD OLD LYME, CONNECTICUT", DATE: 6-22-22, SCALE: 1"=20', PREPARED BY: RICHARD W. GATES, L.S.

3. THE INLAND WETLAND BOUNDARIES DEPICTED HEREIN WERE REPRODUCED FROM THE FOLLOWING MAP:

   (C) "IMPROVEMENT LOCATION MAP TOWN OF OLD LYME SENIOR CENTER TOWN WOODS ROAD OLD LYME, CONNECTICUT", SHEETS 1-2 OF 2, DATE: 4-4-94, REVISED TO: 4-25-94, SCALE: 1"=40', PREPARED BY ANGUS MCDONALD/GARY SHARPE & ASSOCIATES, INC., FILED IN THE OFFICE OF THE TOWN OF OLD LYME TOWN CLERK AS MAP NO. 2764.

4. THE PROJECT COORDINATE SYSTEM IS REFERENCED TO THE BEARING SYSTEM OF REFERENCE MAP (A).

5. ELEVATIONS ARE REFERENCED TO AN ASSUMED VERTICAL DATUM.

6. THE PARCEL IS LOCATED WITHIN SPECIAL FLOOD HAZARD AREA ZONE AE AND FLOOD ZONE X. THE PROJECT SITE IS LOCATED WITHIN FLOOD ZONE X. REFERENCE: FEMA NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NEW LONDON COUNTY CONNECTICUT, PANEL 456 OF 554, MAP NUMBER 09011C0456G, EFFECTIVE DATE: 7-18-11.

7. SOIL TYPES AND/OR SOIL TYPE BOUNDARIES DEPICTED HEREIN HAVE BEEN REPRODUCED FROM NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.

8. UNDERGROUND UTILITIES, STRUCTURES AND OTHER FACILITIES DEPICTED HEREIN HAVE BEEN COMPILED FROM RECORD MAPPING AND FIELD LOCATIONS OF ABOVE GROUND FACILITIES AND MARKOUTS. ALL UNDERGROUND FACILITY LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE ONLY AND ALL FACILITIES MAY NOT BE SHOWN.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND FOR THE MAINTENANCE AND PROTECTION THEREOF. CONTACT THE CONNECTICUT "CALL BEFORE YOU DIG" DIGSAFE CLEARANCE CENTER (1-800-922-4455) AT LEAST TWO WORKING DAYS PRIOR TO THE START OF WORK TO ESTABLISH AND HAVE MARKED ON THE GROUND THE LOCATION OF ALL UNDERGROUND UTILITIES. NOTIFY THE ENGINEER IN THE EVENT THAT A UTILITY IS LOCATED DURING THE PROGRESS OF THE WORK THAT IS NOT INDICATED ON OR IS NOT IN ACCORDANCE WITH THE DRAWINGS.
   UTILITY COMPANY CONTACTS:

CABLE TELEVISION	- COMCAST OF CONNECTICUT, INC.	(860) 505-3331
COMMUNICATIONS	- FRONTIER COMMUNICATIONS OF CONNECTICUT	(203) 238-5000
ELECTRIC	- EVERSOURCE ENERGY	(860) 665-4733

10. IN GENERAL, EXISTING CONDITIONS AND FEATURES ARE DEPICTED IN SCREENED GRAPHICS AND TITLECASE LETTERING AND PROPOSED WORK IS DEPICTED IN BOLD GRAPHICS AND UPPERCASE LETTERING.

11. THE STANDARD SPECIFICATIONS ARE THE DIVISION II CONSTRUCTION DETAILS AND DIVISION III MATERIALS SECTION OF THE "STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818", 2020, LATEST REVISION, INCLUDING ALL SUPPLEMENTS THERETO.

12. PRIOR TO THE START OF WORK, THOROUGHLY REVIEW THE DRAWINGS, THE SITE OF THE WORK AND ALL EXISTING CONDITIONS AND FEATURES. NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS AND FEATURES IN THE FIELD.

13. ADHERE TO THE REGULATIONS AND ORDINANCES OF THE TOWN OF OLD LYME, ALL APPLICABLE STATE AND FEDERAL REGULATORY AUTHORITIES, AND THE PROVISIONS OF ALL APPROVALS AND OR PERMITS ISSUED FOR THE PROJECT.

14. PROVIDE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER. THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

15. MATERIAL AND EQUIPMENT STORAGE AREA LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

16. VEHICLE AND EQUIPMENT FUELING AND MAINTENANCE OPERATIONS SHALL BE PERFORMED ONLY IN AREAS APPROVED BY THE ENGINEER.

17. IN THE EVENT OF A CONTAMINANT RELEASE, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION EMERGENCY RESPONSE AND SPILL PREVENTION DIVISION (860-424-3338 OR 866-337-7745) AND THE TOWN OF OLD LYME FIRE MARSHALS OFFICE (860-434-1605 X231).

18. THE OPERATION OF THE TOWN WOODS RECREATION PARK SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. BE RESPONSIBLE FOR THE THE MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC WITHIN AND ADJACENT TO WORK AREAS INCLUDING THE INSTALLATION AND MAINTENANCE OF TEMPORARY FENCING AND GATES AS SHOWN ON THE DRAWINGS.

19. BE RESPONSIBLE FOR THE CONTROL OF DUST RESULTING FROM CONSTRUCTION OPERATIONS.

20. PROTECT ALL EXISTING CONDITIONS AND FEATURES WHERE NEW CONSTRUCTION IS NOT SHOWN ON THE DRAWINGS.

21. PROTECT STREET LINE MONUMENTS AND PRIVATE BOUNDARY MARKERS. RESET STREET LINE MONUMENTS AND PRIVATE BOUNDARY MARKERS DISTURBED BY CONSTRUCTION OPERATIONS.

22. PRIOR TO THE START OF TREE AND VEGETATION REMOVAL WORK, SCHEDULE A FIELD MEETING WITH THE ENGINEER AND THE LANDSCAPE ARCHITECT TO REVIEW SPECIFIC TREES AND VEGETATION TO BE REMOVED AND TREES AND VEGETATION TO BE PROTECTED.

23. SAWCUT PAVEMENTS AT THE LINES SHOWN ON THE DRAWINGS. WHERE NEW BITUMINOUS CONCRETE PAVEMENT IS TO BE PLACED AGAINST EXISTING PAVEMENT, CLEAN THE FACE OF EXISTING PAVEMENT AND APPLY LIQUID BITUMEN. MATCH EXISTING ADJACENT PAVEMENT SURFACE ELEVATIONS WITH NEW PAVEMENT.

24. ADJUST MANHOLE FRAMES, HANDHOLES, AND VALVE BOXES TO MATCH FINISHED GROUND SURFACE AND PAVEMENTS ELEVATIONS.

25. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

26. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED, TEMPORARY AND PERMANENT SIGN IDENTIFICATION NUMBERS SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SIGN CATALOG, LATEST REVISION.

27. THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A 6" THICKNESS OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED IN ACCORDANCE WITH THE VEGETATIVE SOIL COVER TEMPORARY OR PERMANENT SEEDING INSTALLATION REQUIREMENTS OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST REVISION.

REVISIONS:

NO.	DATE	DESCRIPTION
1	3-8-23	DD PRICING SET

REVISIONS

TITLE:

LAND
OF
THE
TOWNS OF LYME AND OLD LYME
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

SEAL:

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:
LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

DATE: 11-1-22	SHEET: GENERAL NOTES, ABBREVIATIONS AND LEGEND		SHEET NO.: C0.2
SCALE: NONE			
DESIGNED: MJO			
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15	

1. NARRATIVE AND NOTES

A. PROJECT NARRATIVE

THE PROJECT CONSISTS OF THE THE COMPLETE RENOVATION INCLUDING ADDITIONS OF THE EXISTING TOWN OF LYME AND TOWN OF OLD LYME SENIOR CENTER BUILDING, THE CONSTRUCTION OF A FIRE PROTECTION SYSTEM MECHANICAL BUILDING, AND SITE IMPROVEMENTS.

THE SITE IMPROVEMENTS ASSOCIATED WITH THE PROJECT INCLUDE THE INSTALLATION OF AN UNDERGROUND FIRE PROTECTION WATER STORAGE TANK, THE REALIGNMENT OF THE BUILDING MAIN ENTRANCE DRIVEWAY AND PICK UP/DROP OFF AREA, AND THE CONSTRUCTION OF AN ADDITIONAL PARKING AREA, NEW SIDEWALKS, PARKING AREA AND SIDEWALK LIGHTING, FENCING, SIGNAGE, AND LANDSCAPE IMPROVEMENTS.

THE WORK ASSOCIATED WITH THE PROJECT INCLUDES MAINTENANCE AND PROTECTION OF TRAFFIC, EROSION AND SEDIMENT CONTROL, SITE PREPARATION, DEMOLITION, EXCAVATION, TRENCHING, BACKFILLING, GRADING, CAST-IN-PLACE CONCRETE, UTILITY, PAVING, EXTERIOR LIGHTING, FENCING, SIGNAGE, LANDSCAPE, AND TURF ESTABLISHMENT CONSTRUCTION.

THE TOTAL AREA OF LAND DISTURBANCE ASSOCIATED WITH THE COMPLETE PROJECT CONSTRUCTION ACTIVITIES IS APPROXIMATELY 0.75 ACRES.

THE PROJECT SITE IS LOCATED WITHIN THE LIEUTENANT RIVER SUBREGIONAL DRAINAGE BASIN (HUC 4020).

THE PROJECT SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA ZONE.

THE PROJECT SITE IS NOT LOCATED WITHIN A PUBLIC WATER SUPPLY WATERSHED AREA OR AQUIFER PROTECTION AREA.

THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION NATURAL DIVERSITY DATABASE AREA MAP FOR THE TOWN OF OLD LYME INDICATES THAT THE SITE IS LOCATED WITHIN AN AREA IDENTIFYING THE GENERAL LOCATION OF STATE AND FEDERAL LISTED SPECIES AND CRITICAL HABITATS.

PROJECT LOCATION:

THE PROJECT IS LOCATED IN THE NORTH CENTRAL PORTION OF THE TOWN OF OLD LYME ON THE SOUTH SIDE OF TOWN WOODS ROAD, APPROXIMATELY 1600 FEET WEST OF THE BOSTON POST ROAD-TOWN WOODS ROAD INTERSECTION.

PROJECT OWNER:

TOWN OF LYME
480 HAMBURG ROAD
OLD LYME, CONNECTICUT 06317
TELEPHONE: 860-434-0733

TOWN OF OLD LYME
52 LYME STREET
OLD LYME, CONNECTICUT 06317
TELEPHONE: 860-434-1605

CONTACT PERSON:

TO BE DETERMINED

PERMIT REQUIREMENTS:

THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT ARE SUBJECT TO THE REQUIREMENTS OF APPROVALS AND PERMITS OF THE TOWN OF OLD LYME INLAND WETLANDS AND WATECOURSES COMMISSION, ZONING COMMISSION, AND BUILDING DEPARTMENT, AND THE LEDGE LIGHT HEALTH DISTRICT.

CONSTRUCTION SCHEDULE AND SEQUENCE:

THE PLANNED START DATE FOR THE PROJECT IS SPRING 2023. IT IS ANTICIPATED THAT THE DURATION OF CONSTRUCTION WILL BE APPROXIMATELY 12 MONTHS.

THE GENERAL SEQUENCE OF CONSTRUCTION ACTIVITIES WILL BE AS FOLLOWS:

1. EQUIPMENT MOBILIZATION.
2. INSTALLATION OF TEMPORARY TRAFFIC AND EROSION AND SEDIMENT CONTROLS.
3. SITE PREPARATION AND DEMOLITION.
4. PARKING AREA AND DRIVEWAY CONSTRUCTION.
5. SIDEWALK CONSTRUCTION.
6. FIRE PROTECTION WATER STORAGE TANK INSTALLATION.
7. BUILDING FOUNDATION CONSTRUCTION.
8. UTILITY AND LIGHTING CONSTRUCTION.
9. FENCING AND SIGNAGE INSTALLATION.
10. PAVING OPERATIONS.
11. PAVEMENT MARKINGS INSTALLATION.
12. RESTORATION OF DISTURBED AREAS.
13. LANDSCAPE CONSTRUCTION AND TURF ESTABLISHMENT.
14. FINAL CLEAN UP AND REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROLS.

B. EROSION AND SEDIMENT CONTROL STANDARDS AND RESPONSIBILITIES

THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. THE TYPES AND LOCATIONS OF EROSION AND SEDIMENT CONTROLS DEPICTED ON THE DRAWINGS ARE THE MINIMUM TYPES AND LOCATIONS REQUIRED. THE TYPES OF CONTROLS REQUIRED AND THEIR LOCATIONS MAY VARY DURING THE VARIOUS PHASES OF CONSTRUCTION OF THE PROJECT AND THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL REFERENCE THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION FOR SPECIFIC DESIGN CRITERIA, CONSTRUCTION DETAILS, AND MAINTENANCE REQUIREMENTS FOR THE VARIOUS TYPES OF EROSION AND SEDIMENT CONTROLS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING, AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS FOR THE PROJECT.

C. CONTINGENCY PLAN

A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONTACT PERSON DESIGNATED HEREIN WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSON(S) TO BE CONTACTED IN THE EVENT OF AN EROSION AND/OR SEDIMENTATION PROBLEM.

THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL GEOTEXTILE SILT FENCE AND/OR STRAW BALE BARRIER ON THE PROJECT SITE TO CONTROL UNFORESEEN EROSION AND/OR SEDIMENTATION PROBLEMS. IN THE EVENT OF A PROBLEM, THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE TOWN OF OLD LYME ZONING AND WETLANDS ENFORCEMENT OFFICER (860-434-1605).

D. GENERAL GUIDELINES:

1). PRIOR TO THE START OF WORK, INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER.

2). ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND INSPECTED ON A PERIODIC BASIS AS DEFINED IN THE GUIDELINES FOR EACH TYPE OF CONTROL, AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. IN ADDITION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED PRIOR TO AND DURING MAJOR RAINFALL EVENTS.

3.) LIMIT THE DISTURBANCE OF LAND TO THE LIMITS OF DISTURBANCE REQUIRED TO ACCOMPLISH THE WORK SHOWN ON THE DRAWINGS.

4). PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS TO BE PRESERVED AND TAKE REASONABLE CARE TO PROTECT SUCH EXISTING VEGETATION.

5). WHERE PRACTICABLE, PLAN CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS AND INSTALL PERMANENT VEGETATIVE MEASURES AS SOON AS IS PRACTICABLE.

6). WATER FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER DEVICE, OR TO A STORM DRAINAGE SYSTEM ONLY WHEN APPROVED.

7). ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE AND EROSION.

8). BE RESPONSIBLE FOR THE CONTROL OF DUST AND OTHER PARTICULATE MATTER RESULTING FROM CONSTRUCTION OPERATIONS.

9). TEMPORARY MATERIAL STOCKPILES SHALL BE PROTECTED FROM BOTH WATER AND WIND INDUCED EROSION.

10). BE RESPONSIBLE FOR MONITORING NOAA NATIONAL WEATHER SERVICE WEATHER FORECASTS AND TAKING PROPER PRECAUTIONS TO PREVENT EROSION AND SEDIMENTATION IN ADVANCE OF RAINFALL EVENTS AND REMOVING OR SECURING ALL EQUIPMENT AND MATERIALS IN ADVANCE OF ISSUED FLOOD WARNINGS.

2. VEGETATIVE SOIL COVER

a.) TEMPORARY SEEDING INSTALLATION REQUIREMENTS

i.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

ii.) INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

b.) SEEDBED PREPARATION

i.) APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE OR SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/AC.	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

REFER TO DRAWINGS FOR SOIL TEXTURES AT THE SITE.

c.) SEEDING

i.) ANNUAL RYE GRASS 40 LBS/ACRE, 1 LB/1,000 SF

ii.) WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER LIME AND SEED.

iii.) APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. HYDROSEEDINGS WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

iv.) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED, HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:

MARCH 1 THROUGH JUNE 15 AUGUST 1 THROUGH OCTOBER 1

d.) PERMANENT SEEDING INSTALLATION REQUIREMENTS

i.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

ii.) INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

SEEDBED PREPARATION

i.) APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 36-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/AC.	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	4	180
SANDY LOAM, LOAM, SILT LOAM	3	135
LOAMY SAND, SAND	2	90

REFER TO DRAWINGS FOR SOIL TEXTURES AT THE SITE.

ii.) WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

ii.) REMOVE FROM THE SURFACE ALL STONES ONE AND ONE-QUARTER INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.

iv.) INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

SEEDING DATES

i.) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED MIXES WITH LEGUMES IS RECOMMENDED. HOWEVER LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 15 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:

APRIL 15 THROUGH JUNE 15 AUGUST 15 THROUGH SEPTEMBER 15

WITH THE EXCEPTION OF CROWN VETCH, THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS OF NEW LONDON, MIDDLESEX, NEW HAVEN AND FAIRFIELD COUNTIES.

SEEDING

i.) UNLESS OTHERWISE SPECIFIED ON LANDSCAPE DRAWINGS IF INCLUDED IN THE DRAWING SET, THE SEED MIXTURE SHALL BE AS FOLLOWS:

SEED MIXTURE	LBS/AC.	LBS/1,000 SQUARE FEET
KENTUCK BLUEGRASS	20	1.80
CREEPING RED FESCUE	20	1.80
PERENNIAL RYEGRASS	5	0.40

ii.) APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.

iii.) WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.

iv.) FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW COVER. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN USING THIS METHOD.

v.) HYDRAULIC APPLICATION (HYDROSEEDING), IS A SUITABLE METHOD FOR USE ON CRITICAL AREAS, WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN ONE AND ONE-QUARTER INCHES IN DIAMETER. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO ONE FOOT VERTICALLY). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). FIBER MULCH DES NOT PROVIDE ADEQUATE SEEDBED PROTECTION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

vi.) APPLY MULCH ACCORDING TO THE TEMPORARY MULCHING MEASURE.

vii.) IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

MAINTENANCE

i.) LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM OF EVERY FIVE YEARS USING A RATE OF TWO TONS PER ACRE (100 POUNDS PER 1,000 SQUARE FEET).

ii.) WHERE GRASSES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST BIENNIALLY, 300 POUNDS OR 10-10-10 OR EQUIVALENT PER ACRE (7.5 POUNDS PER 1,000 SQUARE FEET).

iii.) WHERE LEGUMES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST EVERY THREE YEARS 300 POUNDS OF 0-20-20 PER ACRE OR EQUIVALENT (7.5 POUNDS PER 1,000 SQUARE FEET).

3. NONSTRUCTURAL MEASURES

a.) SEDIMENT IMPOUNDMENTS, BARRIERS AND FILTERS STRAW BALES SHEET FLOW APPLICATIONS INSTALLATION REQUIREMENTS

i.) BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH THE ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

ii.) ALL BALES SHALL BE EITHER WIRE-BOUND OR STRING TIED. BALES SHALL BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.

iii.) A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. BALES SHOULD BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES.

iv.) EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES OR REBARS SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.

v.) THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) STRAW BETWEEN THEM TO PREVENT WATER FROM FLOWING BETWEEN THE BALES.

CHANNEL FLOW APPLICATIONS

INSTALLATION REQUIREMENTS

i.) BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

ii.) THE REMAINING STEPS FOR INSTALLING A BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION:

iii.) THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

MAINTENANCE

i.) INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAIN EVENTS AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

ii.) ACCUMULATED SEDIMENT BEHIND THE BALES SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE ORIGINAL HEIGHT OF THE BALES.

SEDIMENTATION CONTROL FENCE

MATERIALS

i.) GEOTEXTILE

GEOTEXTILE SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75% (MIN.)
TENSILE STRENGTH AT 20% (MAX) ELONGATION	
EXTRA STRENGTH	50 LBS/LIN. IN. (MIN.)
STANDARD STRENGTH	30 LBS/LIN. IN. (MIN.)
FLOW RATE	0.3 GAL/SF/MIN (MIN.)

ii.) STAKES FOR SEDIMENTATION CONTROL FENCES SHALL BE EITHER 1" X 2" WOOD OR 0.5 POUND (MINIMUM) PER LINEAL FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

iii.) WIRE FENCE REINFORCEMENT FOR SEDIMENTATION CONTROL FENCES USING STANDARD STRENGTH MATERIAL SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.

INSTALLATION REQUIREMENTS

i.) THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 30 INCHES. (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). THE SEDIMENTATION CONTROL FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED.

ii.) WHEN JOINTS ARE NECESSARY, GEOTEXTILE ROLL ENDS SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP AND SECURELY SEALED IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

iii.) POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM DEPTH OF 12 INCHES.

i v.) WHEN STANDARD STRENGTH GEOTEXTILE IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO A TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

v.) THE STANDARD STRENGTH GEOTEXTILE SHALL BE STAPLED, WIRED OR TIED TO THE WIRE FENCE, AND 8 INCHES OF THE GEOTEXTILE SHALL BE EXTENDED INTO THE TRENCH.

vi.) WHEN EXTRA STRENGTH GEOTEXTILE OR BURLAP AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.

vii.) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE GEOTEXTILE.

MAINTENANCE

i.) INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE AS REQUIRED.

ii.) ACCUMULATED SEDIMENT BEHIND THE FENCE SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE BARRIER.

b.) LAND GRADING

i.) ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.

ii.) AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

iii.) ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

iv.) FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS.

v.) FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

vi.) FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.

vii.) TOPSOILING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR TOPSOILING.

viii.) ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

c.) TOPSOILING

MATERIALS

SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS A SUFFICIENT QUANTITY OF TOPSOIL OF GOOD QUALITY ON THE SITE TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, TUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. IT SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH. ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PROPER APPLICATION RATES OF LIME AND FERTILIZER.

INSTALLATION REQUIREMENTS

i.) STRIPPING OF TOPSOIL SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. THE DEPTH OF REMOVAL MAY VERY DEPENDING ON THE SITE CONDITIONS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO BEGINNING STRIPPING OPERATIONS.

ii.) TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL SURFACE WATER FLOW IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT.

iii.) SIDE SLOPES OF STOCKPILES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.

iv.) A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.

v.) TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS.

vi.) PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE DRAWINGS.

vii.) WHERE THE PH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.

viii.) AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 2 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.

ix.) TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 6 INCHES. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

x.) TOPSOIL SHOULD BE COMPACTED ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A HIGH MAINTENANCE TURF. UNDUE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION.

d.) TEMPORARY MULCHING

INSTALLATION REQUIREMENTS

ORGANIC MULCHES

i.) ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED BELOW:

ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES	PER ACRE	PER 1000 SF
STRAW OR HAY	1 1/2 • 2 TONS	70-90 LBS
WOOD FIBER	1000-2000 LBS	25-50 LBS
CORN STALKS	4-6 TONS	185-275 LBS
WOOD CHIPS	4-6 TONS	185-275 LBS
SHREDDED BARK	50-75 CY	1-2 CY

MATERIALS

i.) SELECT MULCH MATERIALS BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS AND LABOR AND EQUIPMENT. OTHER MATERIALS MAY BE USED ONLY WITH THE PERMISSION OF THE APPROVING AUTHORITY.

APPLICATION

i.) MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE. WHEN SPREADING STRAW OR HAY MULCH BY HAND, DIVIDE THE AREA TO BE MULCHED INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND PLACE 70-90 POUNDS (1 1/2 TO 2 BALES) OF STRAW OR HAY IN EACH SECTION TO ENSURE UNIFORM DISTRIBUTION.

ANCHORING

i.) HAY OR STRAW MULCHES MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDBLOWING. HAY OR STRAW MULCH MAY BE ANCHORED BY TRACKING WITH CONSTRUCTION EQUIPMENT OR BY USING MULCH NETTING.

MAINTENANCE

i.) ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH SHOULD BE APPLIED. NETS SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS

NOTES:

1. BASE IMAGERY REFERENCE: 2016 ORTHOPHOTOGRAPHY ACCESSED FROM CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE, URL: cteco.uconn.edu, UNIVERSITY OF CONNECTICUT AND CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.

REVISIONS:

NO.	DATE	DESCRIPTION
1	3-8-23	DD PRICING SET

REVISIONS

TITLE:

LAND
OF
THE
TOWNS OF LYME AND OLD LYME
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

SEAL:

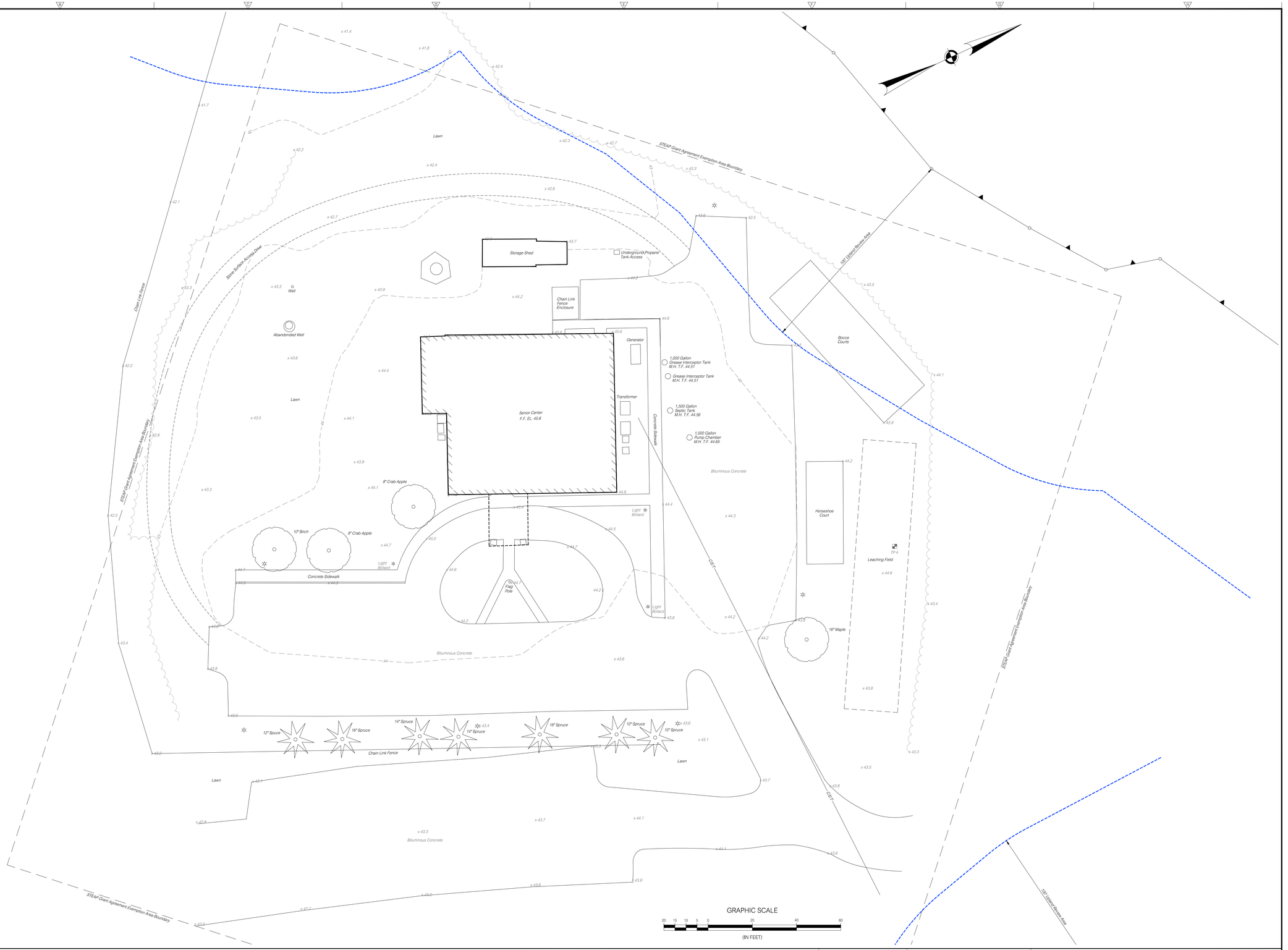
PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:

LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

DATE: 11-1-22	SHEET: ORTHOPHOTOGRAPH VICINITY PLAN	SHEET NO.: C1.1
SCALE: 1"=100'		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15



GRAPHIC SCALE

20 15 10 5 0 20 40 60

(IN FEET)

REVISIONS:		
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1	3-8-23	DD PRICING SET
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PROJECT:
LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

DATE: 11-1-22	SHEET: EXISTING CONDITIONS PLAN	SHEET NO.: C1.2
SCALE: 1"=20'		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15

RELOCATE FIRE PIT STRUCTURE
SEE SHEET C2.2 GENERAL PLAN

RELOCATE SHED
SEE SHEET C2.2 GENERAL PLAN

GSF GEOTEXTILE SILT FENCE SEDIMENT CONTROL BARRIER, TYP.
SEE DETAIL SHEET C3.4

PROTECT PROPANE TANK ACCESS

REMOVE ABANDONDED WELL CONCRETE COVER AND SAWCUT WELL TILE TO A MINIMUM DEPTH OF 12" BELOW FINISHED GRADE

TREE PROTECTION, TYP.
SEE DETAIL SHEET C3.3

REMOVE CHAIN LINK FENCE ENCLOSURE

REMOVE BUILDING MECHANICAL EQUIPMENT

LINE OF SAWCUT, TYP.

TEMPORARY FENCING AND GATE

NOTES:

1. PRIOR TO THE START OF SITE PREPARATION, DEMOLITION, OR REMOVAL WORK, SCHEDULE A MEETING WITH THE LANDSCAPE ARCHITECT AND THE ENGINEER TO REVIEW EXISTING TREES AND OTHER VEGETATION TO BE REMOVED AND TO BE PROTECTED. INSTALL TREE PROTECTION MEASURES WHERE SHOWN ON THE DRAWINGS AND WHERE ORDERED BY THE LANDSCAPE ARCHITECT.
2. INSTALL THE TEMPORARY FENCING AND GATE SHOWN ON THE DRAWINGS.
3. INSTALL THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE DRAWINGS.
4. PROTECT EXISTING IMPROVEMENTS AND CONDITIONS AND FEATURES NOT SHOWN TO BE REMOVED OR TO BE DISTURBED.
5. PROVIDE CERTIFICATIONS FROM THE APPLICABLE UTILITY COMPANIES REGARDING THE TEMPORARY DISCONNECTION AND TERMINATION OF ALL BUILDING UTILITY SERVICES PRIOR TO DEMOLITION WORK.
6. ALL BUILDING DEMOLITION MATERIALS, PAVEMENTS, AND OTHER MATERIALS INDICATED TO BE REMOVED SHALL BE DISPOSED OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
7. DELIVER ALL MATERIALS TO BE SALVAGED TO THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

LEGEND

PAVEMENT TO BE REMOVED

TREE TO BE REMOVED

GRAPHIC SCALE
20 15 10 5 0 20 40 60
(IN FEET)

REVISIONS:		
1	3-8-23	DD PRICING SET
NO.	DATE	DESCRIPTION

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PROJECT: LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

DATE: 11-1-22	SHEET: SITE PREPARATION PLAN		SHEET NO.: C2.1
SCALE: 1"=20'			
DESIGNED: MJO			
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15	

FIRE PROTECTION WATER STORAGE TANK

FIRE PROTECTION SYSTEM EQUIPMENT BUILDING

WASTE AND RECYCLING RECEPTACLES ENCLOSURE
SEE DETAILS SHEET C3.1

ROOF WATER INFILTRATION SYSTEM, TYP.
SEE DETAILS SHEET C3.1

ELECTRIC HANDHOLE

75' WELL PROTECTION RADIUS

48 L.F.-12" PRECAST CONCRETE LEACHING CHAMBERS
SEE DETAIL SHEET C3.1

INSPECTION PORT
SEE DETAIL SHEET C3.1

INTEGRAL CONCRETE SIDEWALK AND CURB, TYP.
SEE DETAIL SHEET C3.2

PRECAST CONCRETE DISTRIBUTION BOX
SEE DETAIL SHEET C3.1

4" DIA. SOLID WALL PVC ASTM D3034 SDR-35 EFFLUENT SEWER
S=0.0104 FT./FT MIN.

1,000 GALLON PRECAST CONCRETE SEPTIC TANK
SEE DETAIL SHEET C3.1

4" DIA. SOLID WALL SCH. 40 PVC ASTM D1785 BUILDING SEWER
S=0.0208 FT./FT MIN.

RESERVED PARKING SPACE SIGN, TYP. 3 PLACES
SEE DETAIL SHEET C3.3

PARKING AREA LIGHTING, TYP. 6 PLACES
SEE DETAIL SHEET C3.2

POTENTIAL FUTURE SIGN

LEGEND

LIMITS OF BITUMINOUS CONCRETE PAVEMENT SURFACE COURSE

GRAPHIC SCALE

20 15 10 5 0 20 40 60

(IN FEET)

PROGRESS DRAWING
FOR REVIEW

6-29-23
DATE

SUMMER HILL
CIVIL ENGINEERS & LAND SURVEYORS, P.C.

REVISIONS:

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		REVISIONS

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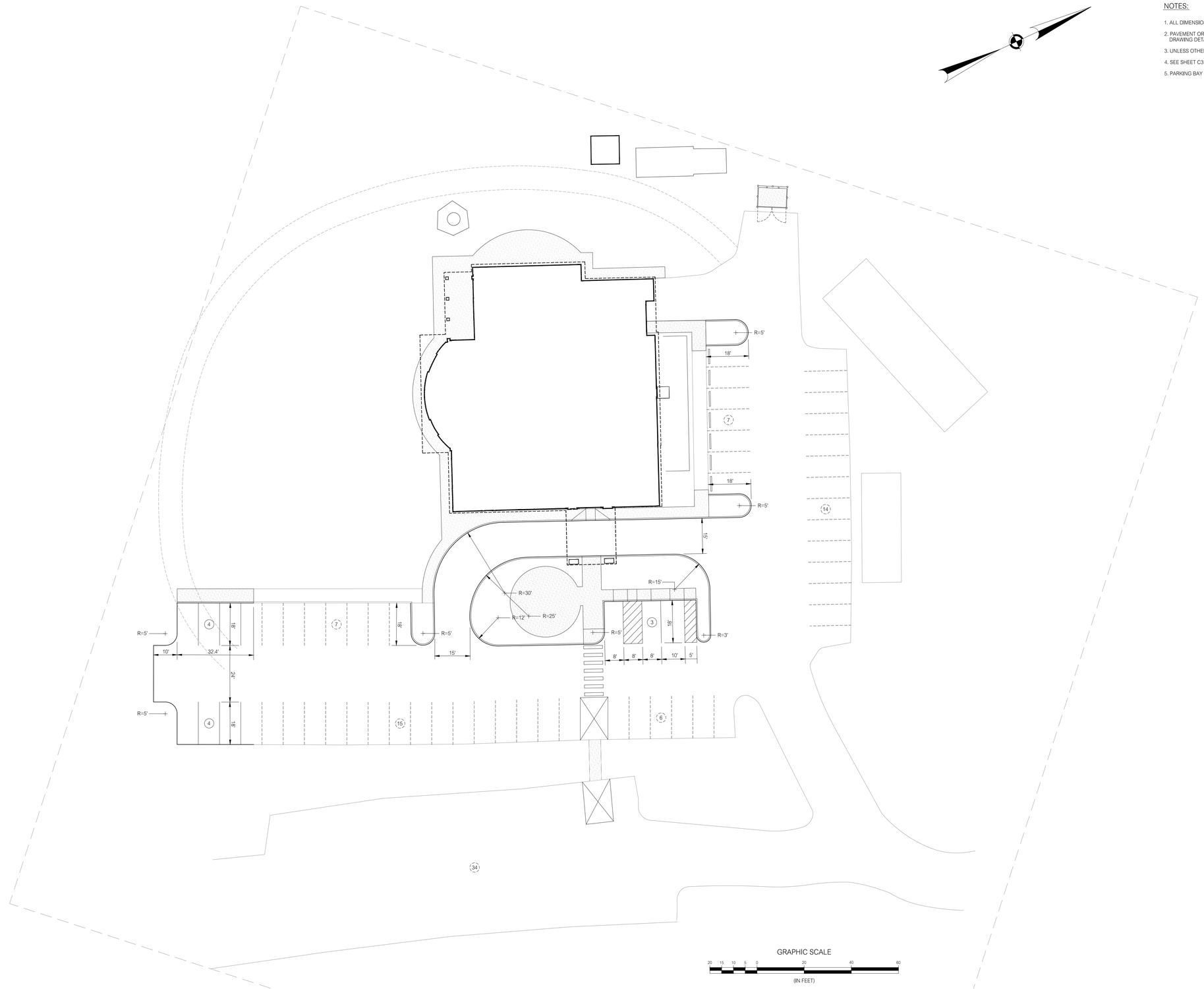
PROJECT:

LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

DATE:	SHEET:	SHEET NO.:
11-1-22	GENERAL PLAN	C2.2
SCALE: 1"=20'		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15

NOTES:

1. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURBING.
2. PAVEMENT OR CURBING CURVE RADII NOT DIMENSIONED OR SHOWN IN THE DRAWING DETAILS ARE FIVE (5) FEET.
3. UNLESS OTHERWISE NOTED, ALL SIDEWALK WIDTHS ARE FIVE (5) FEET.
4. SEE SHEET C3.3 DETAILS FOR PARKING STALL DIMENSIONS.
5. PARKING BAY STALL NUMBER TOTALS ARE IDENTIFIED THUS: (10)



GRAPHIC SCALE

20 15 10 5 0 20 40 60

(IN FEET)

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1	3-8-23	DD PRICING SET

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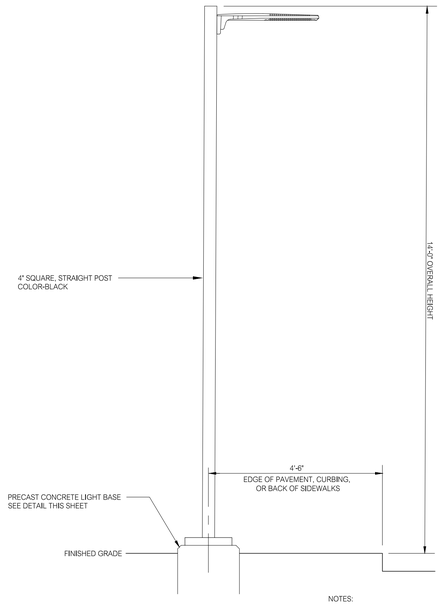
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

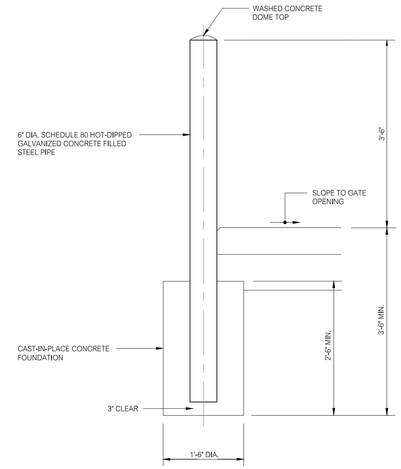
DATE: 11-1-22
SCALE: 1"=20'
DESIGNED: MJO
CHECKED: LJM
SHEET: SITE LAYOUT PLAN
FIELD BOOK: -
PROJECT NO.: 22-15
SHEET NO.: C2.3



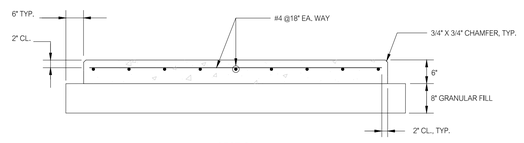
NOTES:

1. LUMINAIRE: GARDCO ECOFORM ECF-S, FINISH COLOR-BLACK.
2. CONTROL: PHOTOMETRIC ON AND TIMER OFF.
3. REFERENCE SHEET C2.2-GENERAL PLAN FOR PARKING AREA LIGHTING LOCATIONS.

PARKING AREA LIGHTING
NOT TO SCALE



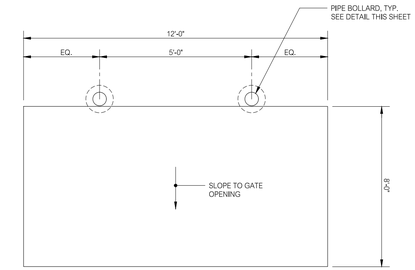
PIPE BOLLARD
3/4"=1'-0"



SECTION

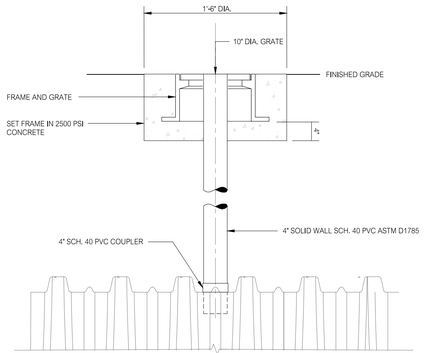
NOTE:

SLOPE CONCRETE PAD TOWARD GATE OPENING FOR SURFACE DRAINAGE.



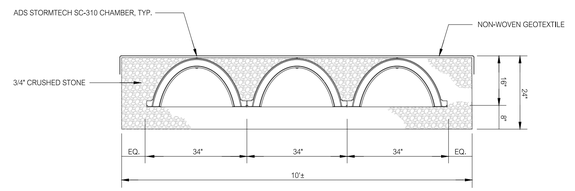
PLAN

WASTE AND RECYCLING RECEPTACLE AREA CONCRETE PAD
NOT TO SCALE

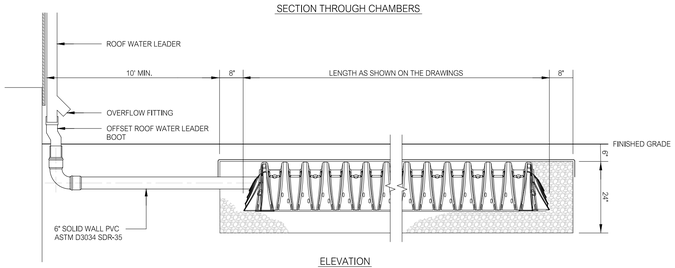


ELEVATION

CHAMBER OVERFLOW GRATE
NOT TO SCALE



SECTION THROUGH CHAMBERS

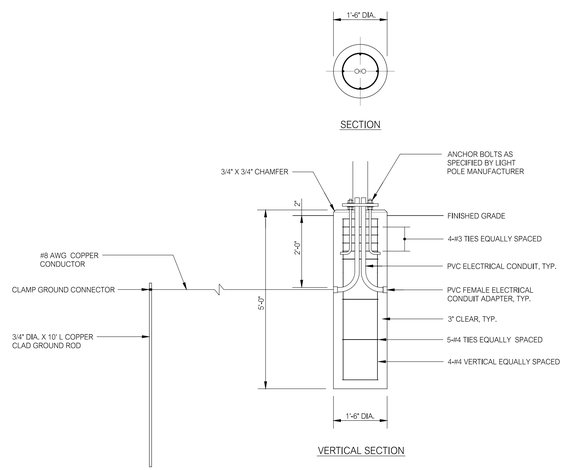


ELEVATION

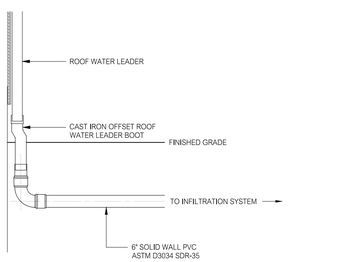
TYPICAL ROOF WATER INFILTRATION SYSTEM
NOT TO SCALE

NOTE:

SEE SHEET C2.2 GENERAL PLAN FOR LOCATIONS OF INFILTRATION SYSTEM(S) AND REQUIRED NUMBER AND ARRANGEMENTS OF CHAMBERS.



PRECAST CONCRETE LIGHT BASE
1/2"=1'-0"



SECTION

BUILDING ROOF WATER LEADER CONNECTION
NOT TO SCALE

REVISIONS:

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OLD LYME, CONNECTICUT

SEAL:

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
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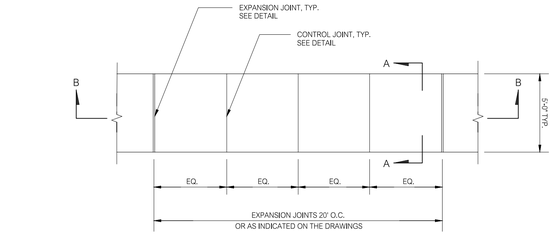
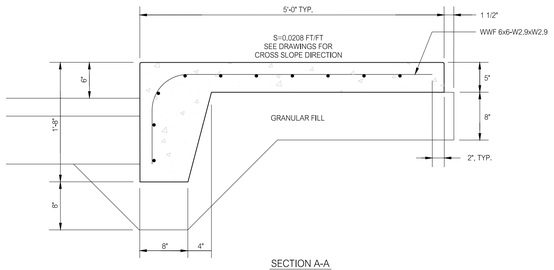
PROJECT:

LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

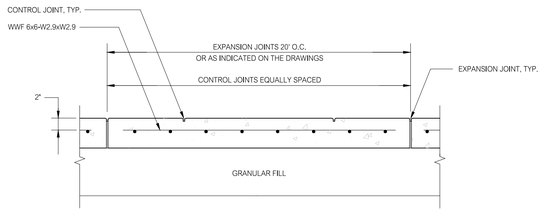
DATE: 1-1-22	SHEET: DETAILS	SHEET NO.: C3.1
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15



PLAN



SECTION A-A

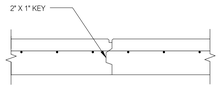


SECTION B-B

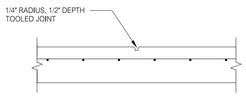
INTEGRAL CONCRETE SIDEWALK AND CURB
NOT TO SCALE

NOTES:

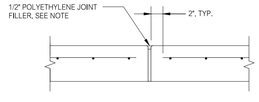
1. JOINTS LOCATIONS MAY BE VARIED IN THE FIELD BY THE ENGINEER.
2. SIDEWALK EDGES AND ALONG JOINTS SHALL BE EDGED WITH A 1/4" RADIUS EDGING TOOL.
3. SIDEWALK SURFACE SHALL RECEIVE A LIGHT BROOM FINISH IN THE TRANSVERSE DIRECTION. BROOM SURFACE AFTER EDGING ALL SIDEWALK EDGES AND ALONG JOINTS TO REMOVE EDGING TOOL LINES.
4. SIDEWALK FINISHED SURFACES SHALL MATCH ADJOINING PAVEMENT, SIDEWALK OR TURF FINISHED SURFACES.



CONSTRUCTION JOINT



CONTROL JOINT

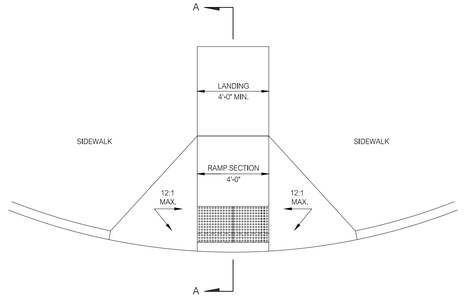


EXPANSION JOINT

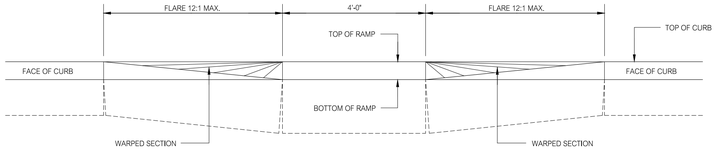
CONCRETE SIDEWALK JOINTS
NOT TO SCALE

NOTES:

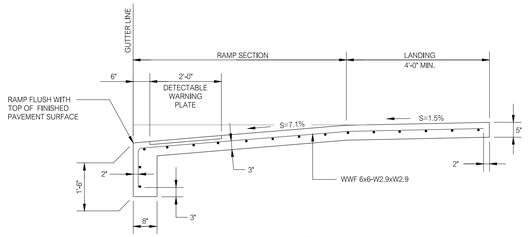
1. 1/4" RADIUS, 1/2" DEPTH TOOLED JOINT AT CONSTRUCTION, CONTROL AND EXPANSION JOINTS.
2. AT EXPANSION JOINTS, SET TOP OF JOINT FILLER 1/2" BELOW FINISHED SIDEWALK SURFACE. APPLY JOINT SEALANT FLUSH WITH TOP OF FINISHED SIDEWALK SURFACE.



PLAN



ELEVATION

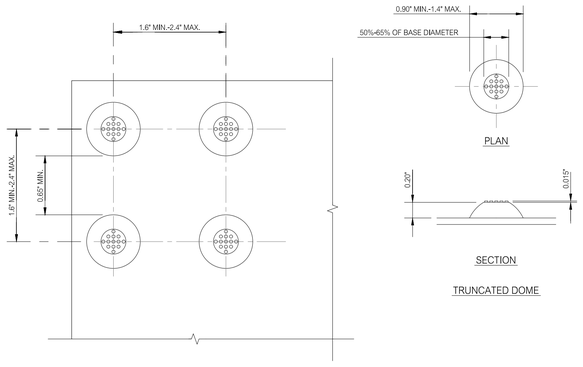


SECTION A-A

TYPE I SIDEWALK RAMP
NOT TO SCALE

NOTES:

1. RAMP AND LANDING SLOPE VALUES SHOWN ARE DESIGN SLOPES WITH AN ALLOWABLE CONSTRUCTION TOLERANCE OF ±0.5%. THE CONSTRUCTED RAMP AND LANDING SLOPE SHALL NOT EXCEED 8.33% AND 2.00% RESPECTIVELY.
2. RAMP AND LANDING CROSS SLOPE DESIGN VALUES ARE 1.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%. THE CONSTRUCTED RAMP AND LANDING CROSS SLOPE SHALL NOT EXCEED 2.00%.

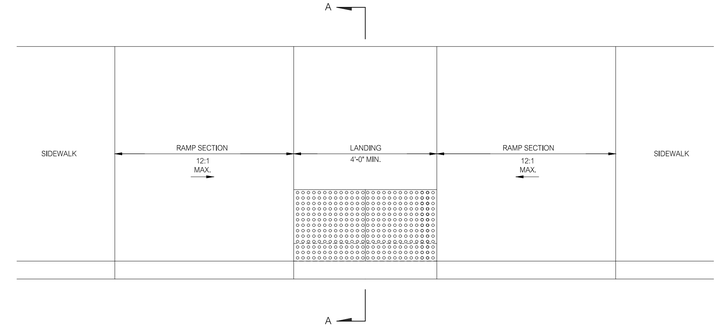


PLAN

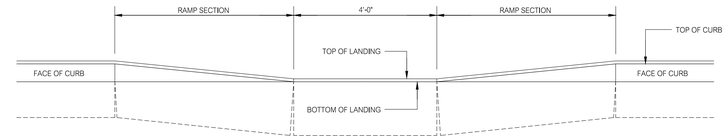
SECTION

DETECTABLE WARNING PLATE DETAILS
NOT TO SCALE

TRUNCATED DOME



PLAN



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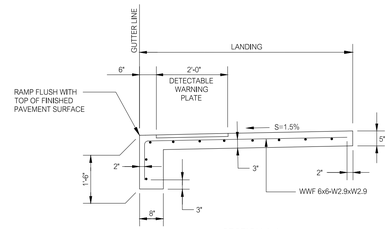
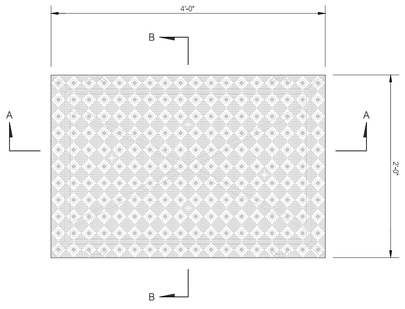


SECTION A-A

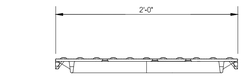
TYPE II SIDEWALK RAMP
1/2"=1'-0"

NOTES:

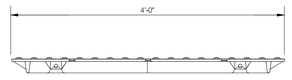
1. RAMP AND LANDING SLOPE VALUES SHOWN ARE DESIGN SLOPES WITH AN ALLOWABLE CONSTRUCTION TOLERANCE OF ±0.5%. THE CONSTRUCTED RAMP AND LANDING SLOPE SHALL NOT EXCEED 8.33% AND 2.00% RESPECTIVELY.
2. RAMP AND LANDING CROSS SLOPE DESIGN VALUES ARE 1.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%. THE CONSTRUCTED RAMP AND LANDING CROSS SLOPE SHALL NOT EXCEED 2.00%.



PLAN



SECTION B-B



SECTION A-A

CAST IRON DETECTABLE WARNING PLATE
NOT TO SCALE

NOTE:

CAST IRON DETECTABLE WARNING PLATE, NEENAH FOUNDRY, NEENAH WISCONSON OR APPROVED EQUAL.

REVISIONS:

NO.	DATE	DESCRIPTION
1	3-8-23	DD PRICING SET

REVISIONS

TITLE:

LAND
OF
THE
TOWNS OF LYME AND OLD LYME
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

SEAL:

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60 Wall Street
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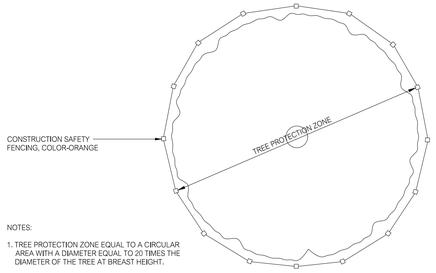
Telephone: (203) 245-0722

PROJECT:
LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

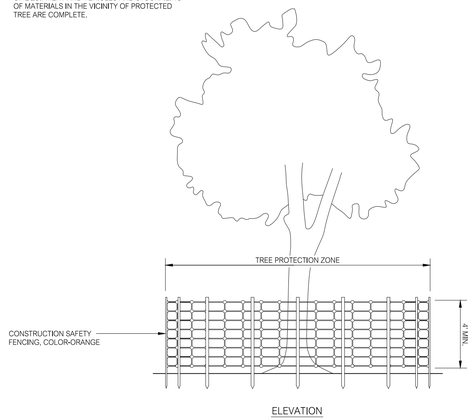
DATE: 11-1-22	SHEET: DETAILS	SHEET NO.: C3.2
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15



NOTES:

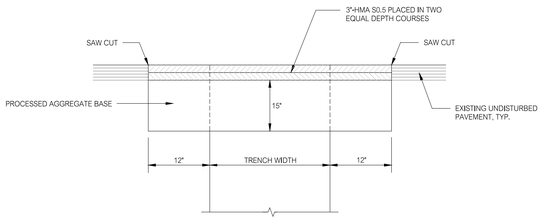
1. TREE PROTECTION ZONE EQUAL TO A CIRCULAR AREA WITH A DIAMETER EQUAL TO 20 TIMES THE DIAMETER OF THE TREE AT BREAST HEIGHT.
2. STAKE FENCING USING WOOD OR METAL STAKES AT INTERVALS ADEQUATE TO MAINTAIN FENCING UPRIGHT.
3. MAINTAIN TREE PROTECTION UNTIL ALL CONSTRUCTION ACTIVITIES REQUIRING THE USE OF EQUIPMENT AND VEHICLES AND STOCKPILING OF MATERIALS IN THE VICINITY OF PROTECTED TREE ARE COMPLETE.

PLAN



ELEVATION

TP TREE PROTECTION
NOT TO SCALE

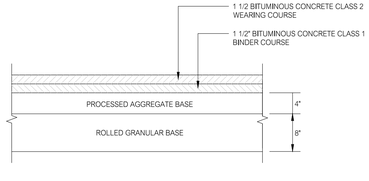


SECTION

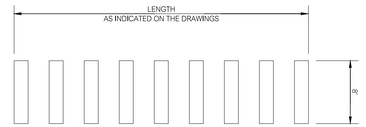
PERMANENT PAVEMENT REPAIR PERPENDICULAR TRENCHES
NOT TO SCALE

NOTES:

1. CLEAN SAW CUT SURFACES OF EXISTING PAVEMENT AND APPLY BITUMINOUS TACK COAT JUST PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
2. MATCH EXISTING ADJOINING PAVEMENT SURFACES WITH PERMANENT PAVEMENT.
3. SEAL SAW CUT JOINTS USING SEALANT MEETING THE REQUIREMENTS OF AASHTO M324 TYPE II, LATEST REVISION.



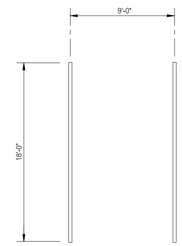
DRIVEWAY AND PARKING AREA PAVEMENT SECTION
NOT TO SCALE



CROSSWALK
NOT TO SCALE

NOTES:

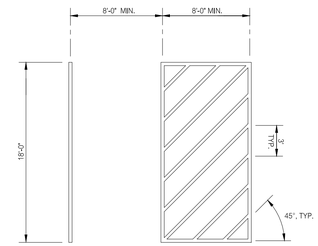
1. 16" BARS, 24" SPACES.
2. ALL BARS COLOR-WHITE.



STANDARD PARKING STALL
NOT TO SCALE

NOTE:

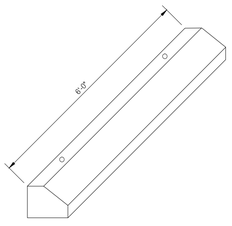
ALL LINES SHALL BE 4" WIDE, COLOR-WHITE.

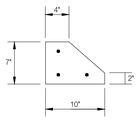


VAN RESERVED PARKING STALL
NOT TO SCALE

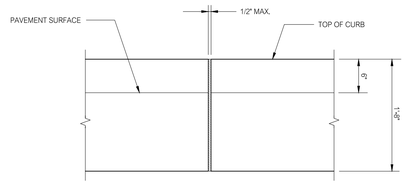
NOTES:

1. ALL LINES SHALL BE 4" WIDE, COLOR-WHITE.
2. THE SLOPE OF THE PAVEMENT SURFACE WITHIN THE LIMITS OF THE RESERVED PARKING SPACE SHALL BE NO GREATER THAN 1:50 IN ANY DIRECTION.
4. STALL AND HATCHED AISLE WIDTHS SHOWN ARE MINIMUM WIDTHS.

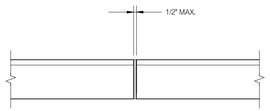




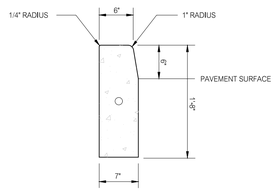
PRECAST CONCRETE WHEEL STOP
NOT TO SCALE



PART ELEVATION



PART PLAN

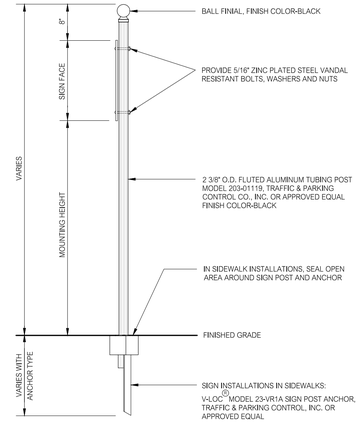


SECTION

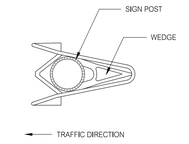
PRECAST CONCRETE CURBING
NOT TO SCALE

NOTES:

1. PROVIDE 1/2" PREFORMED JOINT FILLER JOINTS AT INTERVALS OF APPROXIMATELY 24 FEET.
3. REFER TO DRAWINGS FOR LOCATIONS OF RADIUS AND TRANSITION CURBING SECTIONS.



TRAFFIC SIGN POST
NOT TO SCALE



PLAN

V-LOC SIGN POST ANCHOR
NOT TO SCALE

SIGN NO.: CUSTOM
SIZE: 12" x 24"/18" x 9"
MOUNTING HEIGHT: 5'-0"

RESERVED PARKING SPACE SIGN
NOT TO SCALE

REVISIONS:		
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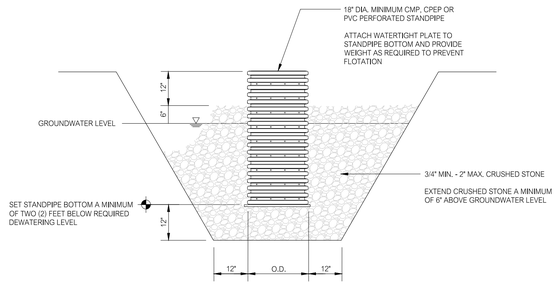
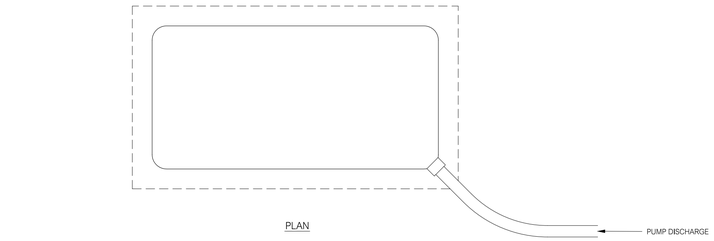


SECTION

PUMP DEWATERING SUMP
NOT TO SCALE



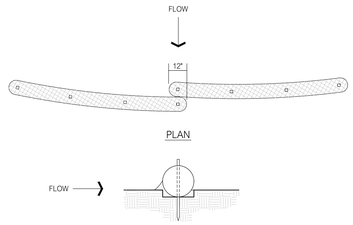
PLAN

SECTION

GEOTEXTILE FILTER BAG
NOT TO SCALE

NOTES:

1. GEOTEXTILE FILTER BAG SHALL BE PLACED IN A LOCATION THAT MINIMIZES INTERFERENCE WITH CONSTRUCTION ACTIVITIES, IS A MINIMUM OF FIFTY (50) FEET FROM WETLANDS, WATERCOURSES AND SURFACE WATER BODIES, IS RELATIVELY LEVEL, PROVIDES FOR THE RELEASE OF FILTERED WATER WITHOUT CAUSING EROSION, AND PROVIDES FOR EASE OF ACCESS BY EQUIPMENT FOR CLEANOUT AND DISPOSAL OF TRAPPED SEDIMENT.
2. PLACE GEOTEXTILE FILTER BAG ON A 6" THICKNESS OF 3/4" CRUSHED STONE OR A 6" THICKNESS STRAW MAT.
3. FILTER BAG SIZE AND GEOTEXTILE TYPE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS BASED ON THE ANTICIPATED PUMP DISCHARGE RATE.
4. GEOTEXTILE FILTER BAG SHALL BE CONSIDERED FULL AND REPLACED IN ACCORDANCE WITH THE MANUFACTURERS RECCOMENDATIONS.
5. DISPOSE OF GEOTEXTILE FILTER BAG BY REMOVING THE BAG AND DISPOSING OF IT OFF-SITE OR WHERE PERMITTED, TO AN APPROPRIATE DESIGNATED UPLAND AREA, CUTTING THE BAG OPEN AND REMOVING THE GEOTEXTILE FOR DISPOSAL, SPREADING THE SEDIMENT CONTENTS, AND SEEDING AND MULCHING THE SEDIMENT AREA.
6. UPON COMPLETION OF DEWATERING OPERATIONS, RESTORE DISTURBED AREAS WHERE GEOTEXTILE FILTER BAGS HAVE BEEN PLACED.



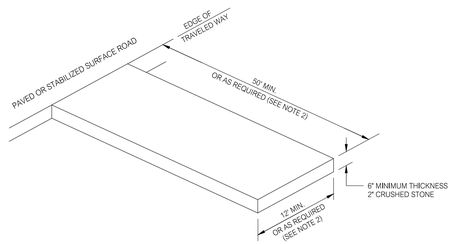
PLAN

SECTION

SW STRAW WATTLE BARRIER
NOT TO SCALE

1. EXCAVATE 4" DEEP TRENCH ALONG THE GROUND SURFACE CONTOUR AS WIDE AS WATTLE DIAMETER FOR LENGTH OF WATTLE.
2. PLACE AND STAKE WATTLE AT 4 FOOT INTERVALS OR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
3. OVERLAP ADJACENT WATTLE SECTIONS 12" MINIMUM.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL ON UPHILL SIDE OF BARRIER.

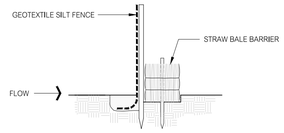
1. INSPECT BARRIER AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE BARRIER.



CE CONSTRUCTION ENTRANCE
NOT TO SCALE

NOTES:

1. CLEAR AND GRUB AREA AND REMOVE TOPSOIL BEFORE PLACEMENT OF CRUSHED STONE LAYER. A GEOTEXTILE MAY BE REQUIRED TO STRENGTHEN SUBGRADE SOILS AND TO PREVENT STONE MOVEMENT AND LOSS OF VOIDS WITHIN THE STONE ENTRANCE WHERE REQUIRED.
2. LENGTH OF ENTRANCE MAY BE LIMITED BY SITE CONDITIONS. PROVIDE ADEQUATE WIDTH OF ENTRANCE AT ROAD INTERSECTION TO ACOMMODATE THE TURNING MOVEMENTS OF CONSTRUCTION VEHICLES.
3. MAINTAIN ENTRANCE SO AS TO PREVENT TRACKING OR WASHING OF SEDIMENT ONTO ROAD. SEDIMENT THAT MAY BE TRACKED OR OTHERWISE DEPOSITED WITHIN THE ROAD SHALL BE REMOVED IMMEDIATELY.
4. MAINTENANCE MAY INCLUDE THE REQUIREMENT FOR TOP DRESSING THE CRUSHED STONE LAYER OR REPLACING THE FULL DEPTH OF THE CRUSHED STONE LAYER.
5. SHOULD SITE CONDITIONS BE SUCH THAT SOIL CANNOT BE REMOVED BY VEHICLES TRAVELING OVER THE ENTRANCE, THE TIRES OF VEHICLES MAY HAVE TO BE WASHED PRIOR TO VEHICLES ENTERING THE ROAD. ALL WASH WATER SHALL BE DIRECTED THROUGH AN APPROVED SEDIMENT FILTER OR TO A SEDIMENT BASIN.

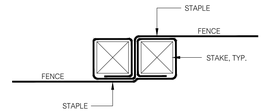


SECTION

GEOTEXTILE SILT FENCE AND STRAW BALE SEDIMENT CONTROL BARRIER
NOT TO SCALE

NOTES:

1. SEE GEOTEXTILE SILT FENCE AND STRAW BALE BARRIER DETAILS THIS SHEET.
2. WHERE A DOUBLE ROW OF BARRIER IS CALLED FOR ON THE PLANS THE DISTANCE BETWEEN THE FIRST LINE OF STRAW BALES AND THE SECOND LINE OF GEOTEXTILE SILT FENCE SHALL BE A MINIMUM OF 2 FEET.

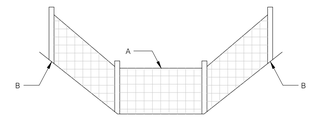


PLAN

FENCE JOINT DETAIL

NOTE:

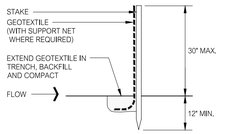
DRIVE STAKES TIGHTLY TOGETHER AND SECURE TOPS OF STAKES WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OF SEDIMENT.



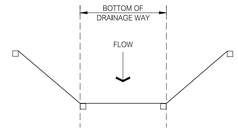
ELEVATION

NOTE:

WHEN NOT INSTALLED ON THE CONTOUR OR WHEN INSTALLED IN A DRAINAGE WAY, THE ELEVATION OF POINTS B SHALL BE HIGHER THAN POINT A.



SECTION

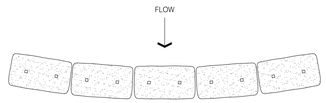


PLAN

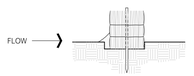
GSF GEOTEXTILE SILT FENCE
NOT TO SCALE

1. EXCAVATE 6" DEEP TRENCH FOR LENGTH OF THE FENCE.
2. EXTEND 6" LENGTH OF GEOTEXTILE INTO TRENCH, BACKFILL AND COMPACT.
3. AS AN ALTERNATE METHOD, EXTEND LENGTH OF GEOTEXTILE HORIZONTALLY ON EXISTING GROUND, RAMP SOIL OVER GEOTEXTILE AND COMPACT.

1. INSPECT FENCE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.



PLAN



SECTION

HB STRAW BALE BARRIER
NOT TO SCALE

1. EXCAVATE 4" DEEP TRENCH FOR LENGTH OF BALES.
2. PLACE AND STAKE BALES, TWO (2) STAKES PER BALE.
3. PLACE BALES SUCH THAT BINDINGS ARE ORIENTED AROUND THE SIDES OF BALES RATHER THAN ALONG THE TOP AND BOTTOM OF BALES.
4. WEDGE LOOSE STRAW BETWEEN BALES.
5. BACKFILL AND COMPACT THE EXCAVATED SOIL ON UPHILL SIDE OF BARRIER.

1. INSPECT BARRIER AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE BARRIER.

REVISIONS:

NO.	DATE	DESCRIPTION
1	3-8-23	DD PRICING SET

REVISIONS

TITLE:

LAND
OF
THE
TOWNS OF LYME AND OLD LYME
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

SEAL:

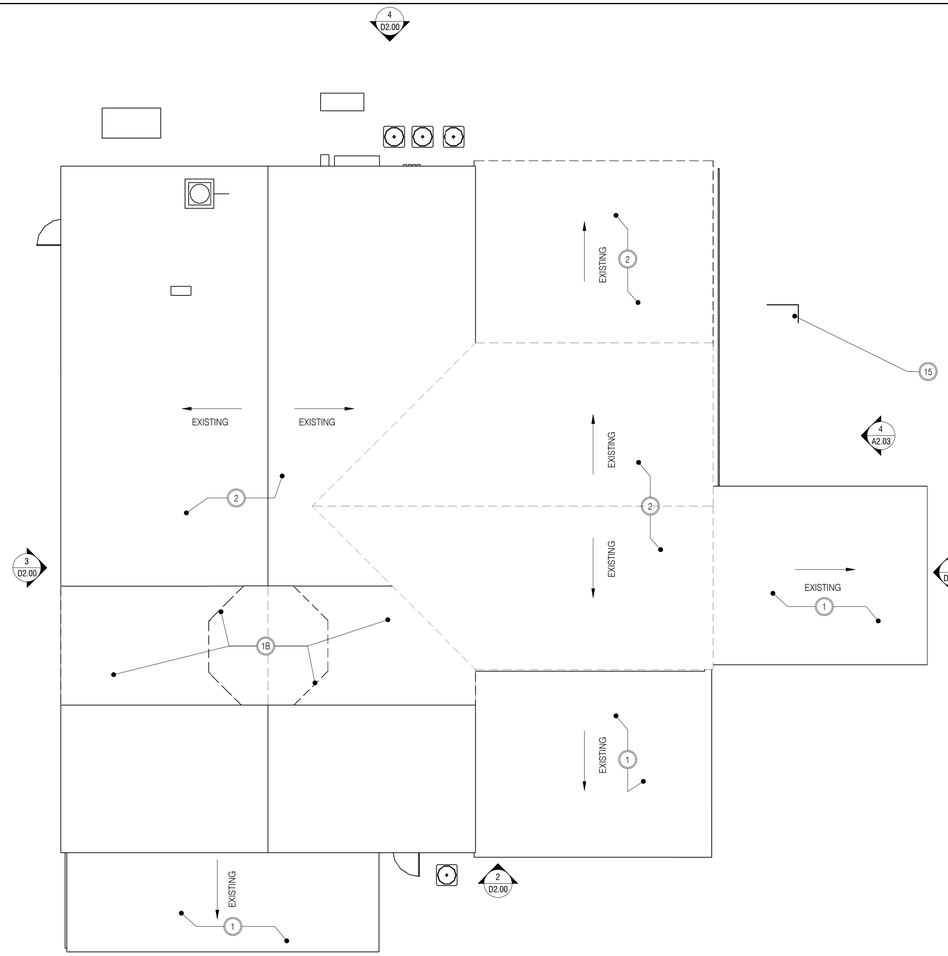
PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:

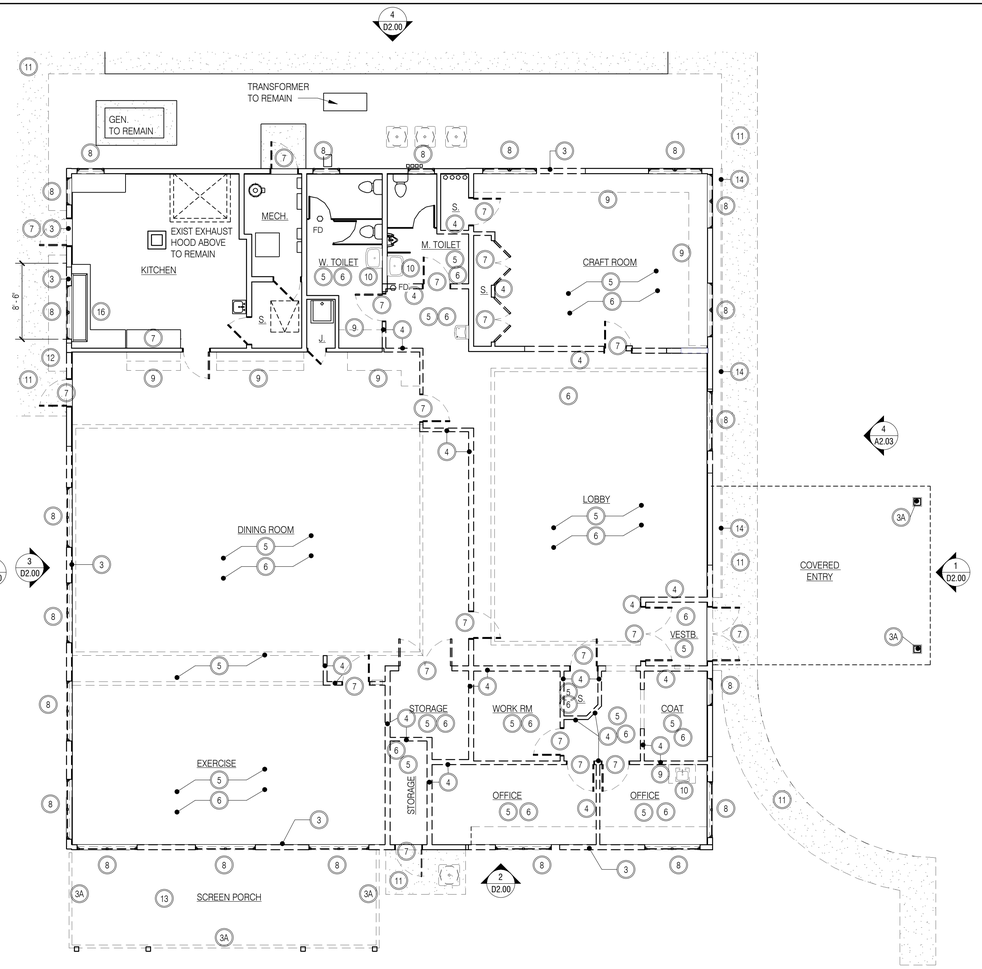
LYME-OLD LYME SENIOR CENTER
26 TOWN WOODS ROAD
OLD LYME, CONNECTICUT

DATE: 11-1-22	SHEET: DETAILS	SHEET NO.: C3.4
SCALE: AS NOTED		
DESIGNED: MJO		
CHECKED: LJM	FIELD BOOK: -	PROJECT NO.: 22-15



1 ROOF PLAN -DEMO PLAN

1/8" = 1'-0"



2 FIRST FLOOR - DEMO PLAN

1/8" = 1'-0"

DEMO GENERAL NOTES

12" = 1'-0"

1. DEMOLITION NOTES ARE FOR GUIDANCE ONLY AND ARE GENERAL IN NATURE. IT IS NOT THE INTENT TO POINT OUT EACH ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL ELEMENTS OF EACH ITEM NOTED AND/OR SHOWN TO BE DEMOLISHED, OR AS REQUIRED TO PROVIDE COMPLETED WORK IN ACCORDANCE WITH ALL CONTRACT DOCUMENTS.
2. THE BUILDING WILL BE VACATED DURING DEMOLITION AND CONSTRUCTION PHASES. CONTRACTOR SHALL COORDINATE PROJECT START WITH OWNER'S RELOCATION OF FURNITURE AND GOODS. CONTRACTOR SHALL TAKE CARE TO MINIMIZE IMPACT ON EXISTING EQUIPMENT AND STRUCTURE TO REMAIN. DUST, DEBRIS AND NOISE SHALL BE CONTAINED WITH TEMPORARY PARTITIONS AS REQUIRED. EGRESS PATHS MUST ALSO REMAIN INTACT DURING CONSTRUCTION.
3. PREPARE ALL AREAS WITHIN PROJECT SCOPE FOR NEW WORK. COORDINATE EXTENT OF REMOVALS WITH NEW WORK. ALL AREAS AFFECTED BY DEMOLITION OF EXISTING CONSTRUCTION OR REMOVAL OF NOTED ITEMS SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND/OR SUBSTRATE SHALL BE PROVIDED TO SUPPORT NEW FINISH. COORDINATE WITH NEW FINISHES TO BE APPLIED AT AREAS AFFECTED BY DEMOLITION WORK.
4. REFER TO M.E.P. DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION. COORDINATE WITH M.E.P. DRAWINGS FOR REMOVAL AND DISCONNECTS OF UTILITIES REQUIRED FOR COMPLETION OF ALL WORK. COORDINATE WITH M.E.P. DRAWINGS FOR ALL NEW THROUGH WALL/FLOOR/ROOF PIPING, CONDUITS AND DUCTWORK. CUT AND REMOVE AFFECTED WALLS, FLOOR CONSTRUCTION, ROOF CONSTRUCTION AS REQUIRED.
5. ALL EXISTING PIPING AND CONDUIT BRANCHES NOTED TO BE REMOVED SHALL BE CAPPED INSIDE WALL OR UNDER SLAB OUT OF VIEW. THESE LOCATION SHALL BE PATCHED TO MATCH EXISTING FINISHES.
6. CONTRACTOR TO HIRE A LICENSED SHORING CONTRACTOR TO IDENTIFY AND DESIGN ALL SHORING NECESSARY TO COMPLETE THE DEMOLITION AND CONSTRUCTION OF THE PROJECT. CONTRACTOR TO PROVIDE TEMPORARY SHORING/BRACING AS REQUIRED AND/OR AS SHOWN PRIOR TO DEMOLITION OF ANY STRUCTURAL ELEMENTS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
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9. CONTRACTOR TO COORDINATE REMOVAL WORK WITH ABATEMENT DRAWINGS AND HAZMAT REPORTS.
10. CONTRACTOR TO PROVIDE LIDAR SCANING FOR EXISTING RADIANT SLAB PRIOR TO DEMOLITION. COORDINATE WITH LIDAR SCAN AS REQ'D.
11. CONTRACTOR TO NOTIFY ARCHITECT AND REMOVE AND REPLACE OR REPAIR ANY DAMAGED OR ROTTEN SHEATHING AS REQUIRED TO PROVIDE A SOUND SUBSTRATE FOR THE NEW CONSTRUCTION.
12. CONTRACTOR TO NOTIFY ARCHITECT AND OWNER OF ANY ADJACENT OBJECTS THAT NEED TO BE REMOVED AND/OR DEMOLISHED FOR CONSTRUCTABILITY REASONS.
13. CONTRACTOR TO REMOVE AND DISPOSE OF ALL EXISTING BATT INSULATION AT TRUSSES AND IN EXISTING WALLS. PREP AREAS FOR INSTALLATION OF NEW INSULATION.

DEMO KEY & NOTES

12" = 1'-0"

1. REMOVE EXISTING ROOF CONSTRUCTION, IN ITS ENTIRETY
1B. REMOVE PART OF EXISTING ROOF CONSTRUCTION, COORD. WITH PROPOSED DWGS
2. REMOVE EXISTING ROOF FINISH TO SUBSTRATE AND PREP FOR NEW FINISH. PATCH AND REPAIR AS REQ'D. STRUCTURAL TRUSSES TO REMAIN
3. REMOVE PART OF EXISTING EXTERIOR WALL CONSTRUCTION, INCLUDING INTERIOR PLASTER FINISH AND SUBSTRATE, WALL BASE AND WALL PROTECTION. PREP FOR NEW HEADER. PROVIDE TEMP WALL SUPPORT AS REQ'D.
3A. REMOVE ALL OF EXISTING EXTERIOR WALL CONSTRUCTION, INCLUDING INTERIOR PLASTER FINISH AND SUBSTRATE, WALL BASE, SOFFITS, STRUCTURE, AND WALL PROTECTION. PREP FOR NEW HEADER. PROVIDE TEMP WALL SUPPORT AS REQ'D.
3B. REMOVE EXISTING EXTERIOR WALL EXIST SHINGLE FINISH TO SUBSTRATE PREP FOR NEW C.I. AND FINISH
4. REMOVE EXISTING INTERIOR PARTITION, INCLUDING WALL BASE AND WALL PROTECTION
5. REMOVE EXISTING CEILINGS AND ALL SUPPORTING SUSPENSION ASSEMBLIES, AND SOFFITS.
6. REMOVE EXISTING CARPET FLOORING AND PAD. PREP SUBSTRATE FOR NEW FINISHES.
7. REMOVE EXISTING DOOR AND FRAME TO ROUGH OPENING, INCLUDING HARDWARE
8. REMOVE EXISTING WINDOW UNIT TO ROUGH OPENING, INCLUDING WINDOW FRAME AND SUBFRAME, WINDOW TRIM AND TREATMENT
9. REMOVE EXIST CASEWORK
10. REMOVE EXISTING PLUMBING FIXTURES. REFER TO PLUMBING DWGS. FOR ADDITIONAL INFORMATION.
11. REMOVE EXISTING CONC SIDEWALK, SEE CIVIL DWGS FOR ADDITIONAL INFORMATION.
12. REMOVE EXISTING HOSE BIB, CAP PLUMBING AS REQ'D., SEE PD1.0
13. REMOVE EXISTING BLUESTONE PATIO PAVERS
14. REMOVE HANDRAIL AND SUPPORT
15. REMOVE EXISTING TRASH ENCLOSURE INCLUDING FENCE AND CONCRETE SLAB. SEE CIVIL DWGS.
16. MODIFY EXISTING SPRAY FAUCET SUPPORT. PROTECT DURING CONSTRUCTION AND RESUPPORT OR REPLACE FIXTURE WITH NEW. RELOCATE OR INSTALL NEW PLUMBING VENT AS REQUIRED.

N

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LYMES' SENIOR CENTER RENOVATION

26 Town Woods Road
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Telephone: (203) 245-0752

TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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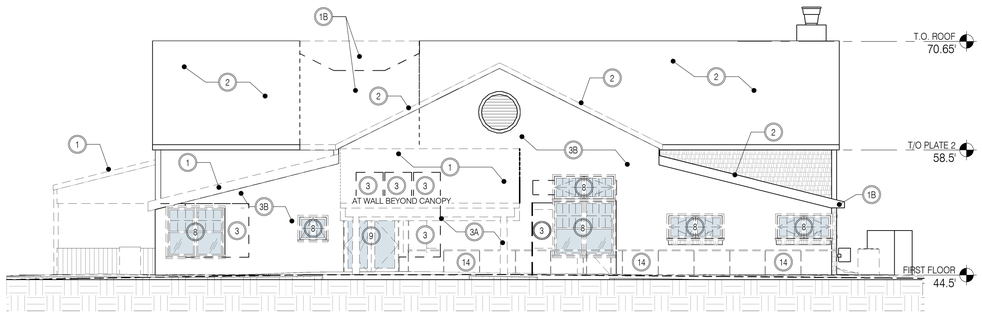
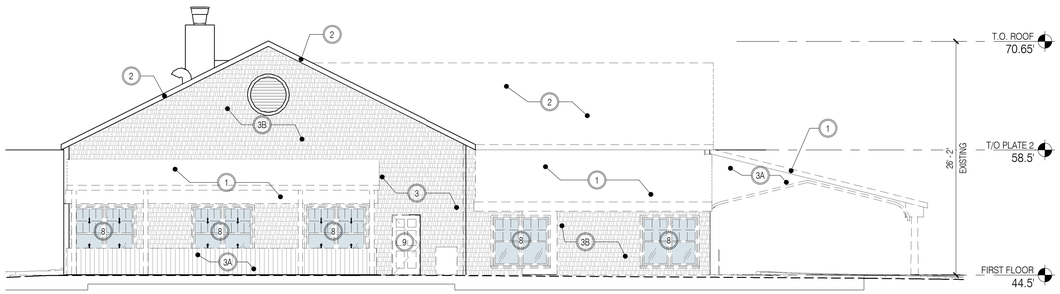
DEMOLITION PLANS

SCALE: As indicated

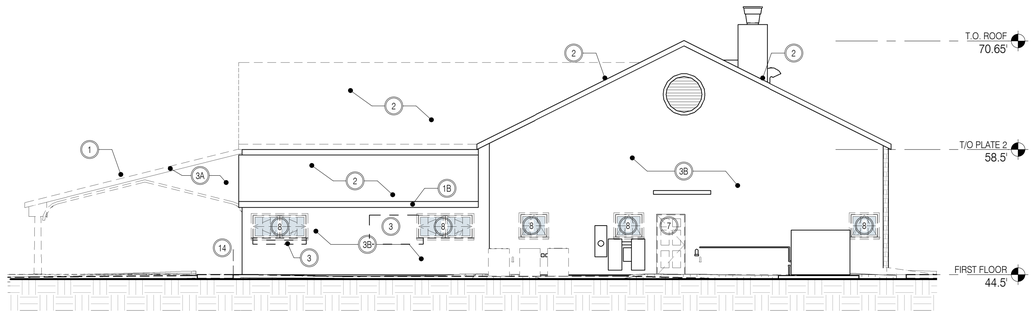
SHEET:
D1.00



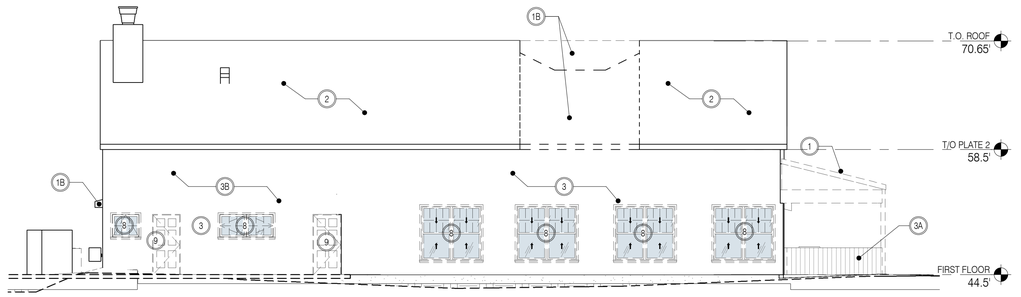
1 FRONT DEMO ELEVATION - EAST
1/8" = 1'-0"



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



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



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

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N

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TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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SCALE: As indicated

SHEET:
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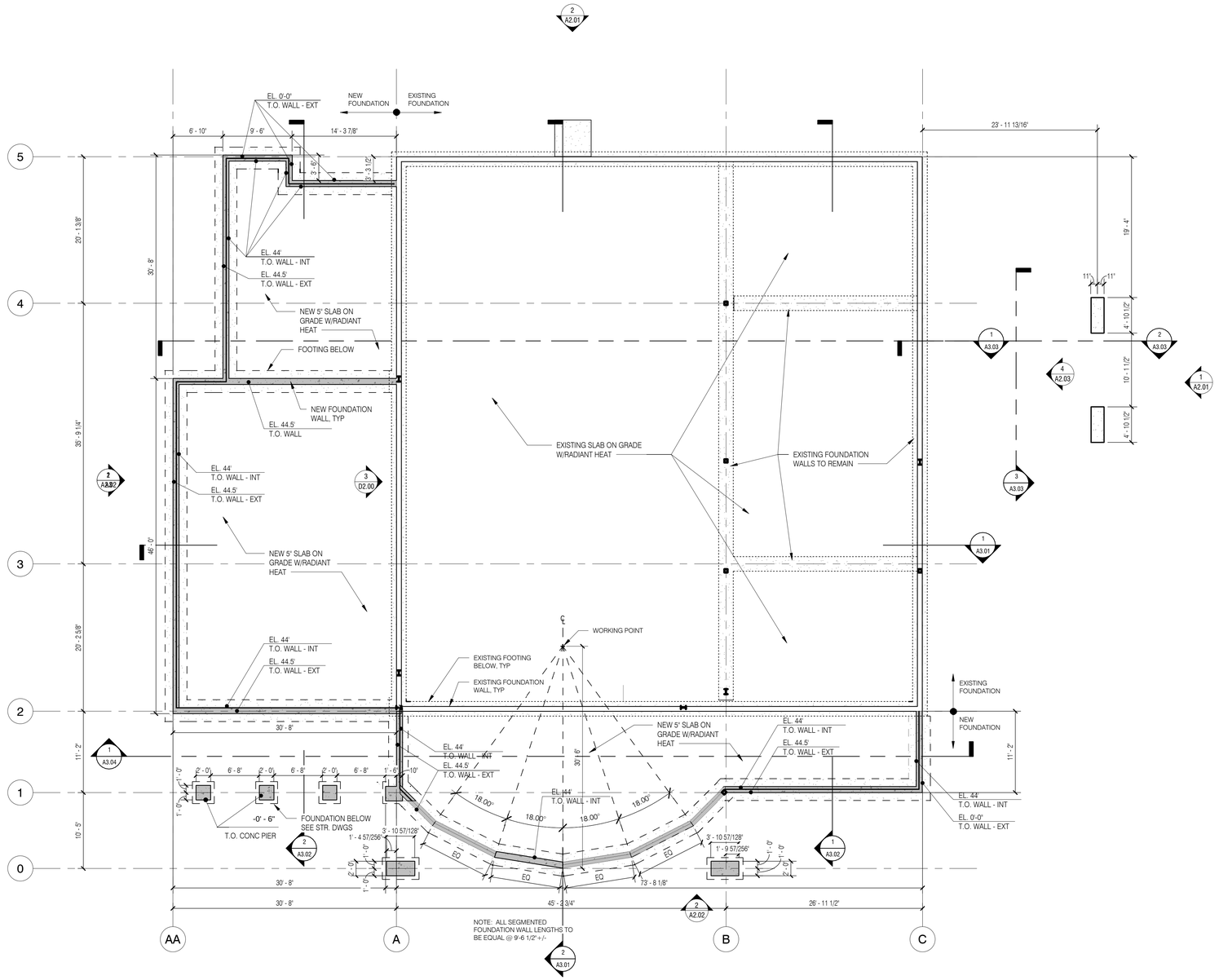
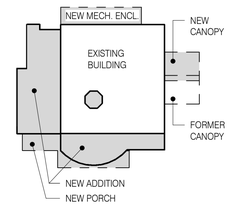


1 PROPOSED FOUNDATION PLAN

1/8" = 1'-0"

1. COORDINATE WITH STRUCTURAL DWG
2. CORRDINATE WITH PLUMB, ELEC, MEP DWGS W/ UNDERGROUND ELEMENTS



KEY PLAN

1" = 50'-0"

N

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TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	Author
CHECKED BY:	Checker
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DRAWING NAME: PROPOSED FOUNDATION PLAN

SCALE: As indicated

SHEET: A1.00

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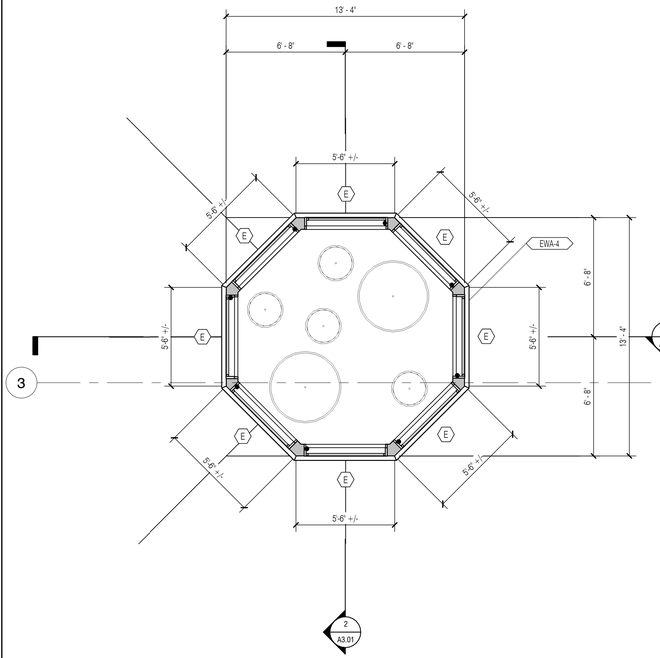
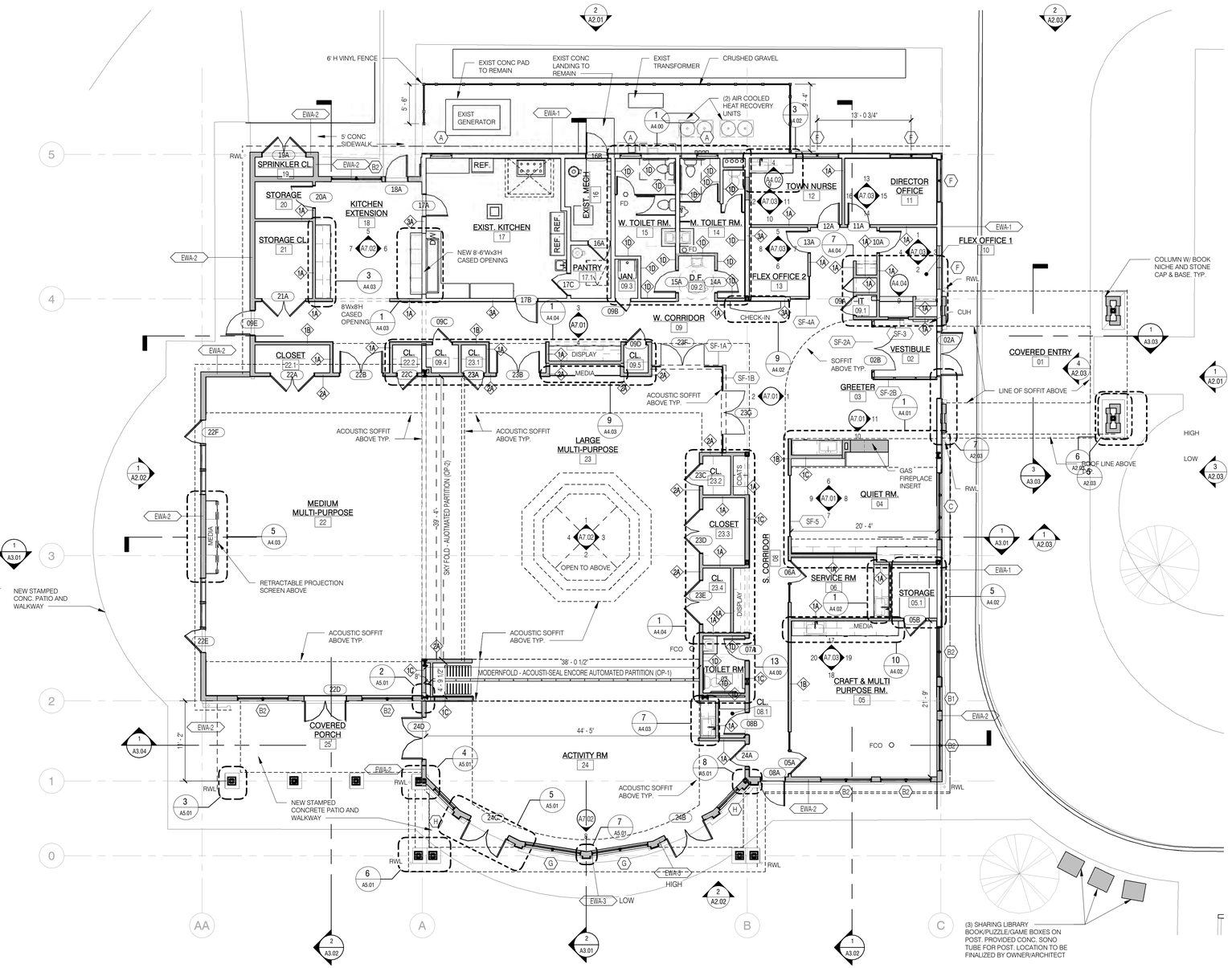


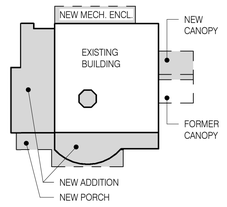
2 PARTIAL PLAN AT CUPOLA

1/4" = 1'-0"



1 PROPOSED FIRST FLOOR PLAN

1/8" = 1'-0"



KEY PLAN

1" = 50'-0"

N

LYMES' SENIOR CENTER RENOVATION

26 Town Woods Road
Old Lyme, CT

Point One Architects
101 Shore Road
Old Lyme, CT 06371
860.434.7707
www.pointonearchitects.com

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Telephone: (203) 245-0752

TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME:
PROPOSED FLOOR PLAN

SCALE: As indicated

SHEET:
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DRAWING NAME:
DIMENSIONAL FLOOR PLAN

SCALE: As indicated

SHEET:
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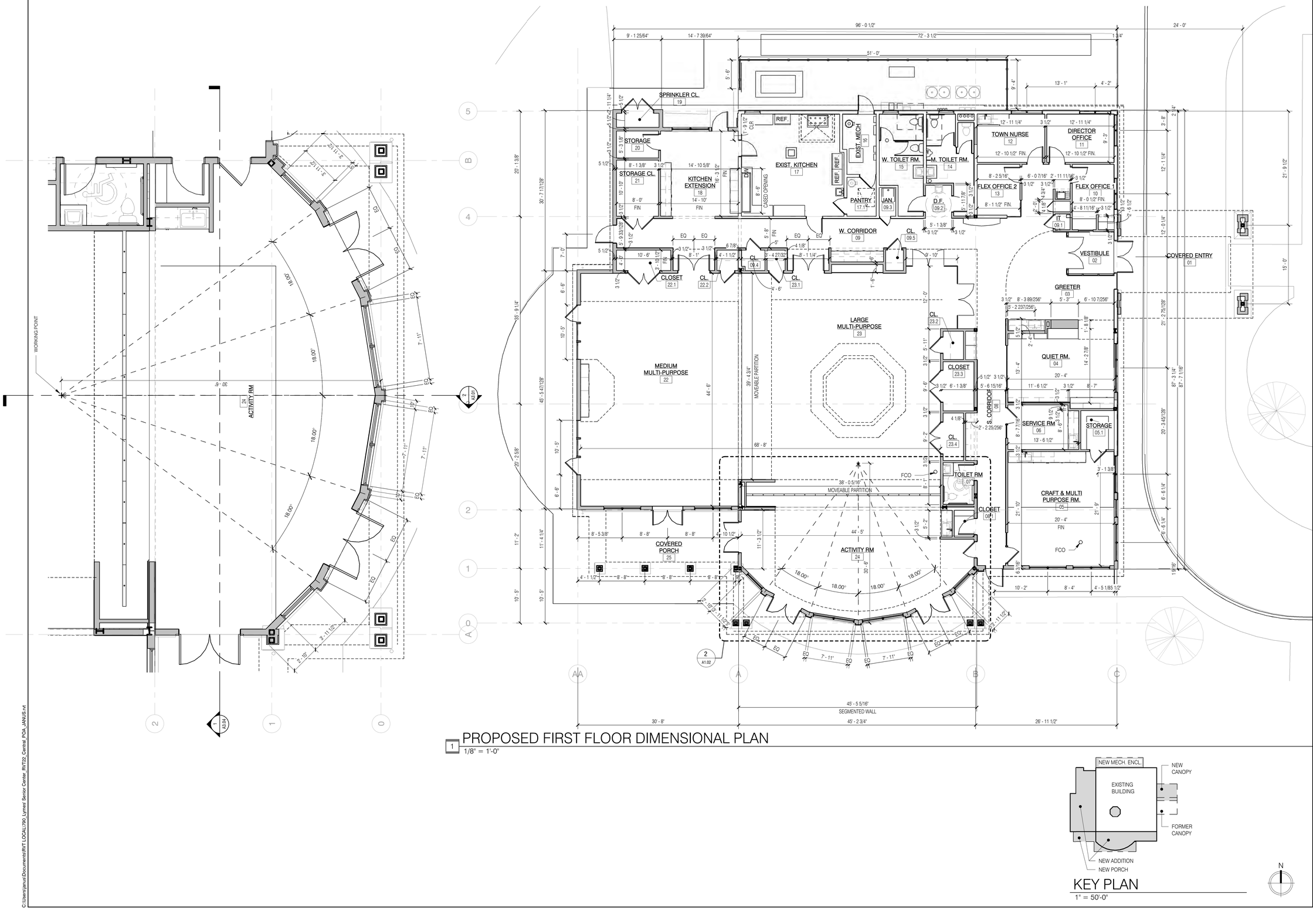

1 PROPOSED FIRST FLOOR DIMENSIONAL PLAN
1/8" = 1'-0"

KEY PLAN
1" = 50'-0"

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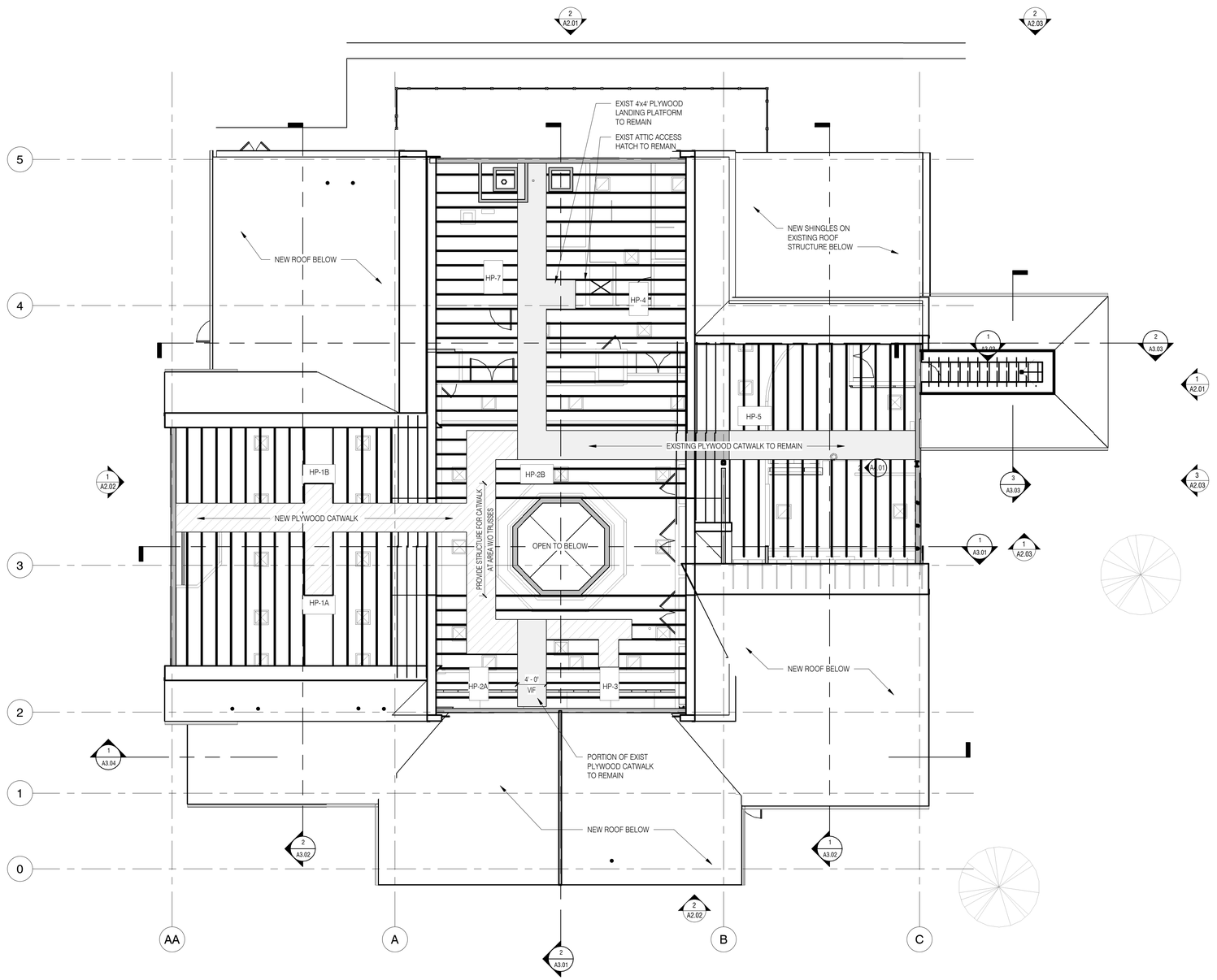
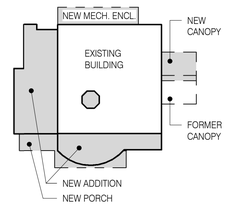


1 PROPOSED ATTIC PLAN

1/8" = 1'-0"

1. COORDINATE WITH STRUCTURAL DWG
2. CORRDINATE WITH PLUMB, ELEC, MEP DWGS



KEY PLAN

1" = 50'-0"

N

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JOB #:	790
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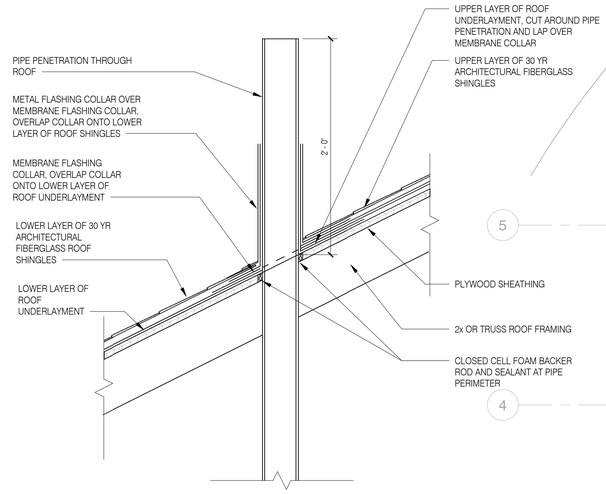
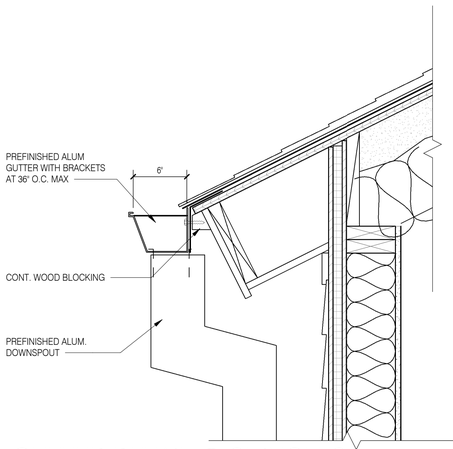
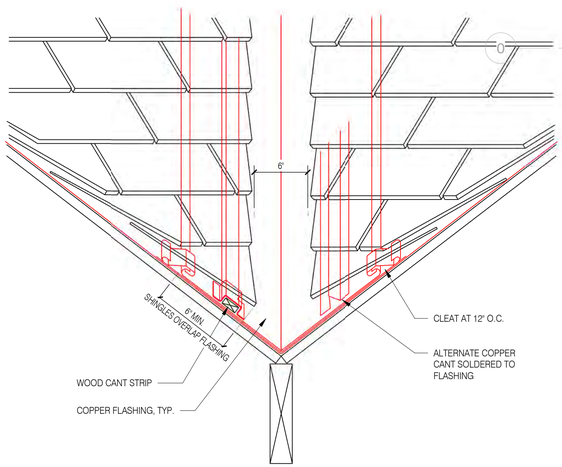


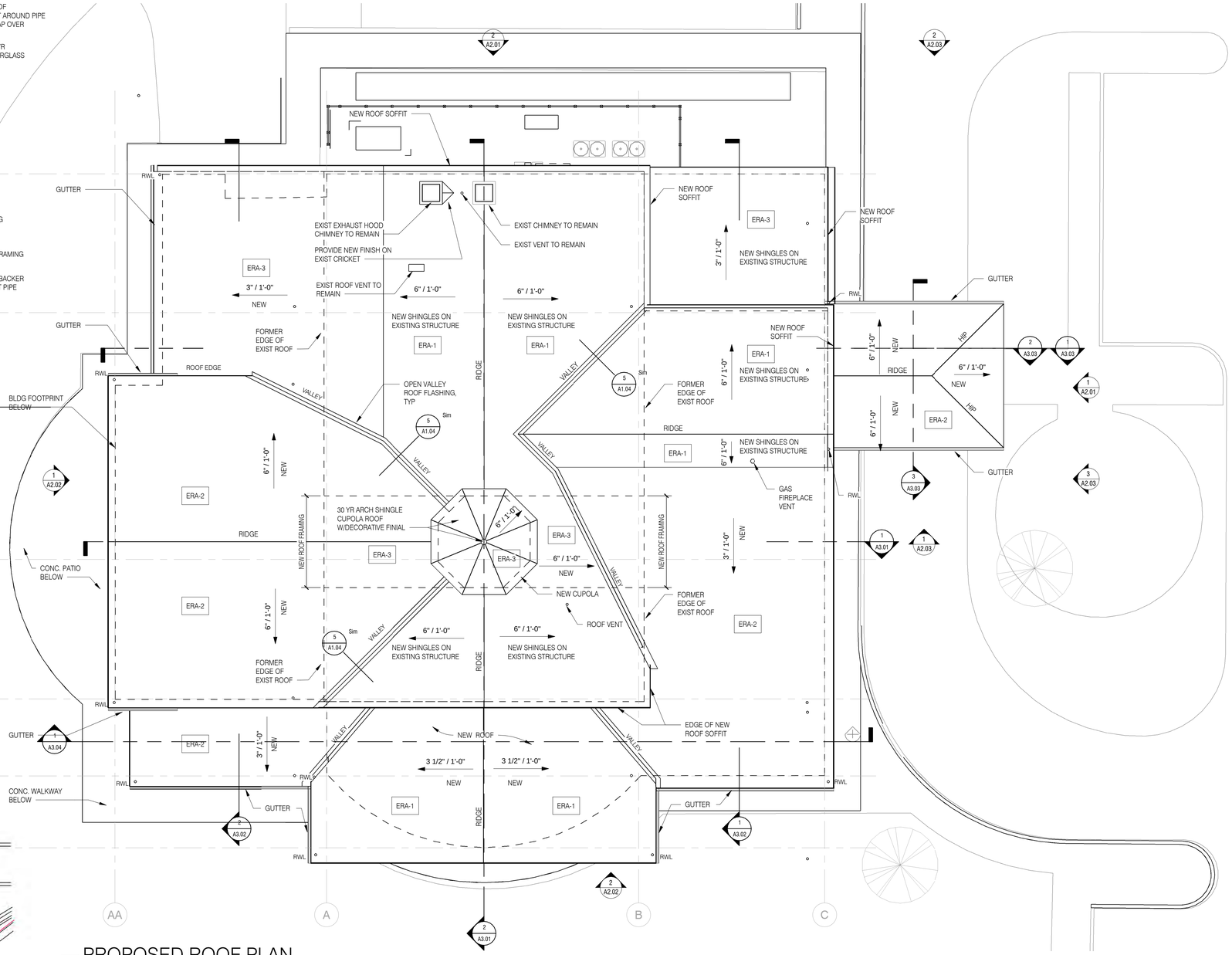
3 PLUMBING VENT DETAIL
1 1/2" = 1'-0"



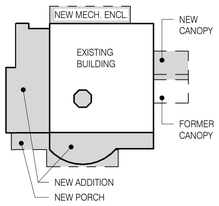
4 GUTTER DETAIL @ SHINGLES
1 1/2" = 1'-0"



5 VALLEY FLASHING DETAIL
1 1/2" = 1'-0"



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



KEY PLAN
1" = 50'-0"

GENERAL NOTES: ROOF PLAN
1. PROVIDE NEW 30 YR ARCHITECTURAL SHINGLE FINISH ON ENTIRE ROOF OVER BOTH NEW AND EXIST ROOF STRUCTURE
2. ALL GUTTERS SHALL BE 6" OPENING, .032" THICK ALUMINUM
3. PROVIDE 4" DIA. PLAIN ROUND DOWNSPOUTS, .024 THICK ALUMINUM
4. ??PROVIDE CONTINUOUS DRAFT STOP PARTITION, 2x4 STUDS @ 24" O.C. W/5/8" GWB BOTH SIDES W/ (1) 3'-0" WIDE DOOR IN HOLLOW METAL FRAME ON SELF CLOSING HINGES??
5. PROVIDE 4'-0" WIDE 3/4" PLYWOOD CATWALK ON TOP OF TRUSS CHORD
6. VERIFY CONDITION OF EXIST CHIMNEYS AND CRICKET. PATCH AND REPAIR AS NEEDED PRIOR TO NEW FINISH.
7. 3:12 PITCH TO HAVE 4" EXPOSURE
8. 6:12 PITCH TO HAVE 5 1/2" EXPOSURE
9. PROVIDE ICE + WATER SHIELD ON ENTIRE ROOF

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TEC LANDSCAPE DESIGN

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PROPOSED ROOF PLAN

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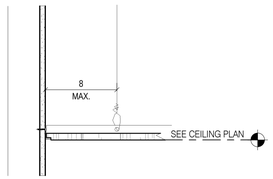
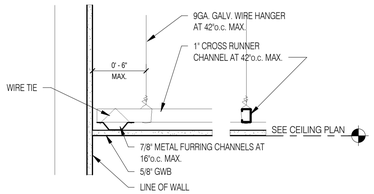
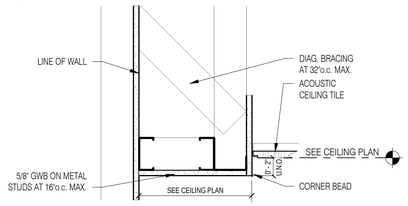


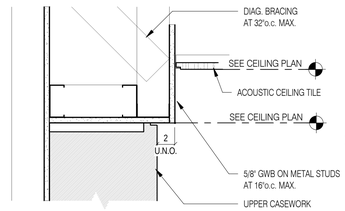
2 TYP. ACT CLG STARTER WALL DETAIL
N.T.S.



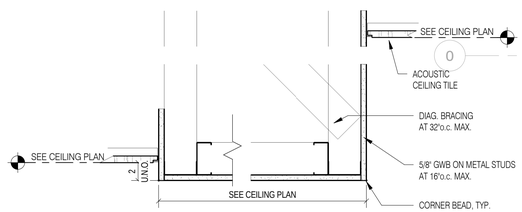
3 TYP. SUSPENDED GWB CLG DETAIL
N.T.S.



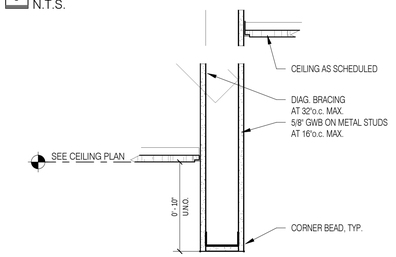
4 TYP. PERIMETER SOFFIT DETAIL
N.T.S.



5 TYP. SOFFIT AT CABINETS
N.T.S.



6 TYP. WIDE SOFFIT DETAIL
N.T.S.



7 TYP. TRANSITION SOFFIT DETAIL
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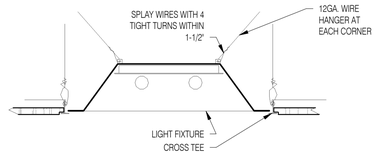
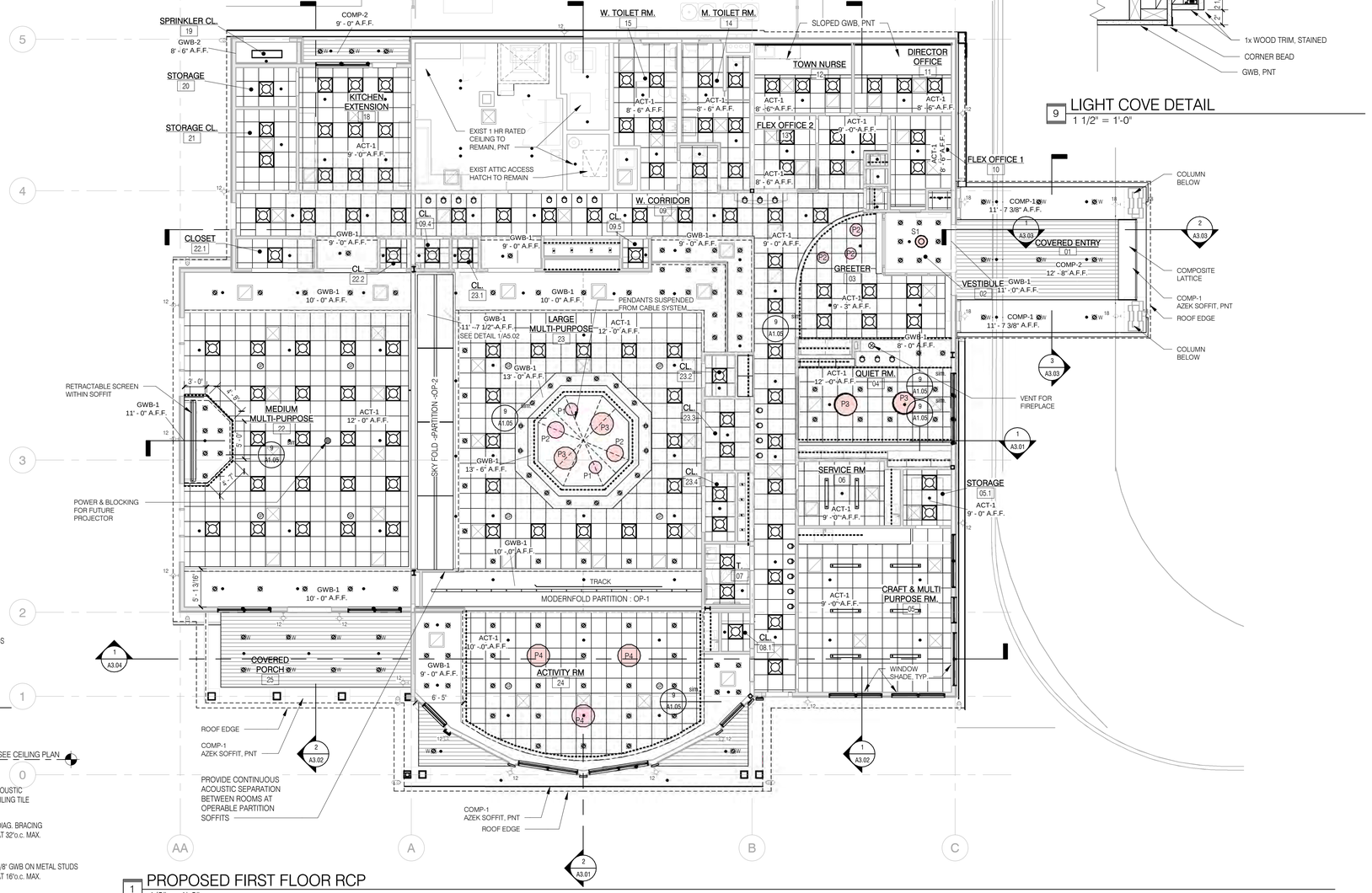
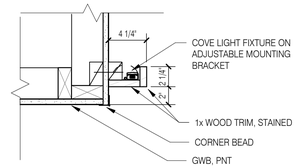


8 TYPICAL LIGHT FIXTURE DETAIL
N.T.S.



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



9 LIGHT COVE DETAIL
1 1/2" = 1'-0"

DECORATIVE LIGHTING SCHEDULE

MARK	TYPE	MANUF.	NAME	MODEL	SIZE	FINISH
S1	SURFACE	ACCORD LIGHTING	CEILING ACCORD CILINDRICO	REF:5012	23.62" DIA	40. SATIN BLUE
P1	PENDANT	ACCORD LIGHTING	PENDANT ACCORD CILINDRICO	REF:202	19.69" DIA	40. SATIN BLUE
P2	PENDANT	ACCORD LIGHTING	PENDANT ACCORD CILINDRICO	REF:207	27.56" DIA	40. SATIN BLUE
P3	PENDANT	ACCORD LIGHTING	PENDANT ACCORD CILINDRICO	REF:217	35.43" DIA	40. SATIN BLUE
P4	PENDANT	ACCORD LIGHTING	PENDANT ACCORD CILINDRICO	REF:1352	35.43" DIA	40. SATIN BLUE
12	WALL MOUNTED EXTERIOR	PROGRESS LIGHTING	6" LED SQ. CYLINDER DOWN WALL LANTERN	P5643-31-30K	6" W 12" H	BLACK
18	WALL MOUNTED EXTERIOR	PROGRESS LIGHTING	6" LED SQ. CYLINDER DOWN 2 LIGHT WALL LANTERN	P5644-31 SQ.	6" W 18" H	BLACK

LIGHTING SYMBOLS

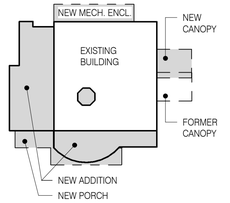
- DECORATIVE LIGHT FIXTURE
- EXTERIOR WALL MOUNTED FIXTURE WET LOCATION
- RECESSED LIGHT FIXTURE - ROUND
- RECESSED LIGHT FIXTURE - WALL WASHER
- W RECESSED LIGHT FIXTURE WET LOC.
- STRIP LIGHTING
- 2 x 2 LIGHT FIXTURE
- PENDANT LINEAR LIGHT
- CABINET PUCK LIGHT
- LINEAR UTILITY LIGHT

MATERIAL LEGEND

GWB-1 - PNT AFF - 9' 0" (U.O.N)	SEE SPEC
ACT-1 - WHITE AFF - 9' 0" (U.O.N)	SEE SPEC
COMP-1 - AZEK SOFFIT SYSTEM	SEE SPEC
COMP-2 - AZEK BEADBOARD PANEL - PNT	SEE SPEC

REFLECTED CEILING PLAN SYMBOLS

- SP CEILING MTD SPEAKER
- SPRINKLER, SEE FP1.0
- SUPPLY REG., SEE M1.0
- RETURN REG., SEE M1.0



KEY PLAN
1" = 50'-0"

N

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TEC LANDSCAPE DESIGN

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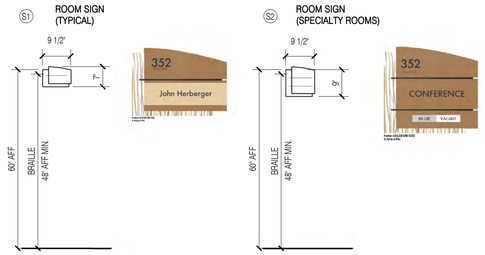
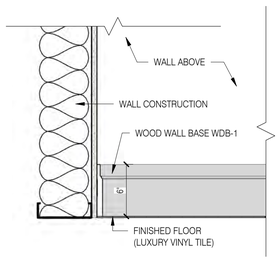
WAYFINDING LEGEND

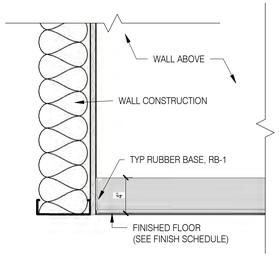
MANUFACTURER: TAKEFORM STYLE: FUSION 53





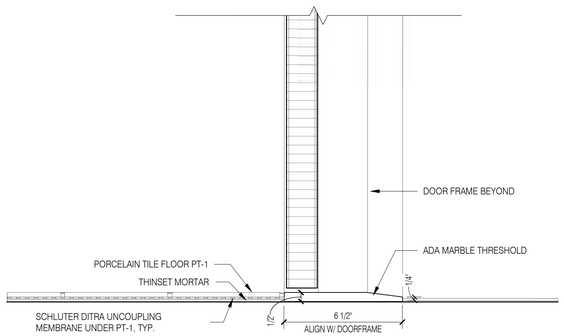
WOOD BASE

1 1/2" = 1'-0"



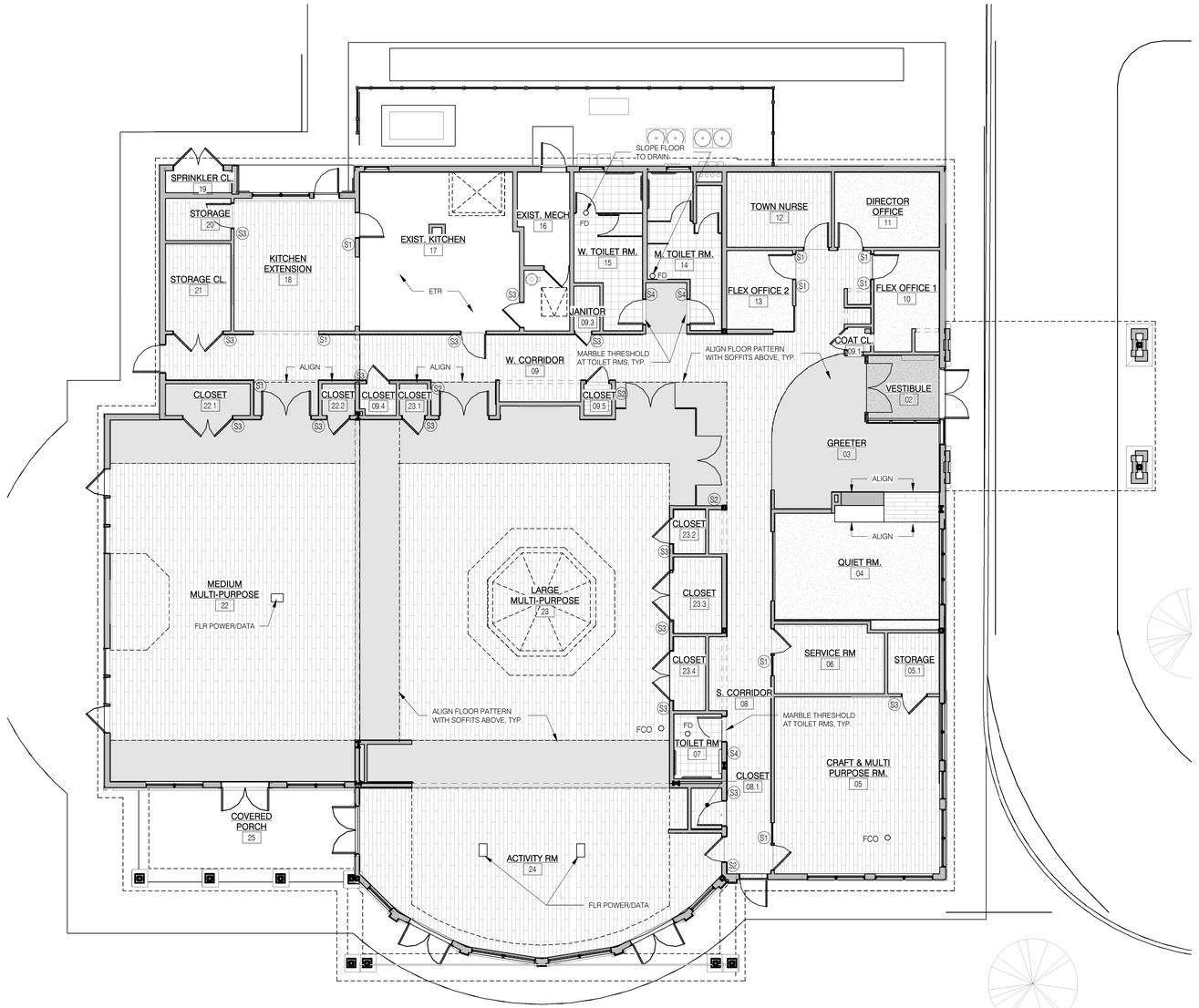
RUBBER WALL BASE

1 1/2" = 1'-0"



S4 - SILL @ TOILET ROOMS

3" = 1'-0"



1 PROPOSED FIRST FLOOR FLOOR FINISH PLAN

1/8" = 1'-0"

GENERAL FINISH NOTES:

1. CONTRACTOR SHALL PROVIDE ALL INTERIOR FINISHES AS SPECIFIED.
2. CONTRACTOR SHALL PROVIDE 10% ATTIC STOCK OF ALL FINISH MATERIALS AT THE END OF PROJECT FOR OWNER.
3. ALL NEW AND EXISTING FINISHES SCHEDULED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED BY CONTRACTOR INVOLVED AT NO COST TO OWNER.
4. ALL CARPET & LUXURY VINYL TILE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTUER'S RECOMMENDATION.
5. ALL GWB CEILINGS TO BE PAINTED SHERWIN WILLIAMS; CEILING WHITE.
6. DOOR & WINDOW WOOD TRIM TO BE PAINTED P-6 WITH A SEMI GLOSS FINISH, TYP.
7. ALL TOILET ROOMS TO RECEIVE SCHLUTER- DITRA WATERPROOF MEMBRANE UNDERNEATH PORCELAIN TILE FLOORING.
8. PROVIDE MARBLE THRESHOLD AT FLOOR TRANSITIONS FROM PORCELAIN TILE T0 LUXURY VINYL TILE.
9. PROVIDE MANUALLY OPERATED SHADES AT ALL ROOMS. LARGE MULTI-PURPOSE 23 TO RECEIVE POWER FOR FUTURE INSTALL OF AUTOMATED SHADES.
10. ALL CABINETRY TO BE PLASTIC LAMINATE, FLAT PANEL WITH 4" WIRE PULLS AND CABINET LOCKS. ALL CABINETRY LOCKS TO BE KEYED ALIKE PER ROOM.

ALTERNATES:

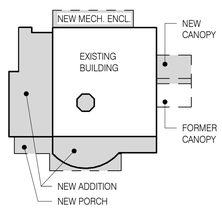
ALTERNATE NO 1. FLOOR BASE

a. BASE BID: ALL CORRIDORS TO RECEIVE 6' WOOD BASE WDB-1, REMAINING ROOMS TO RECEIVE 4' RUBBER BASE RB-1, U.N.O.
b. ALTERNATE BID: ALL ROOMS TO RECEIVE 6' WOOD BASE, WDB-1 TYP.

FLOOR FINISH LEGEND

- CARPET TILE CPT-1
- LUXURY VINYL TILE LVT-1
- LUXURY VINYL TILE LVT-2
- PORCELAIN TILE PT-1
- WALK-OFF CARPET TILE WOC-1

NOTE: RADIANT SLAB BELOW (ENTIRE BUILDING) PREP AND INSTALL ACCORDINGLY



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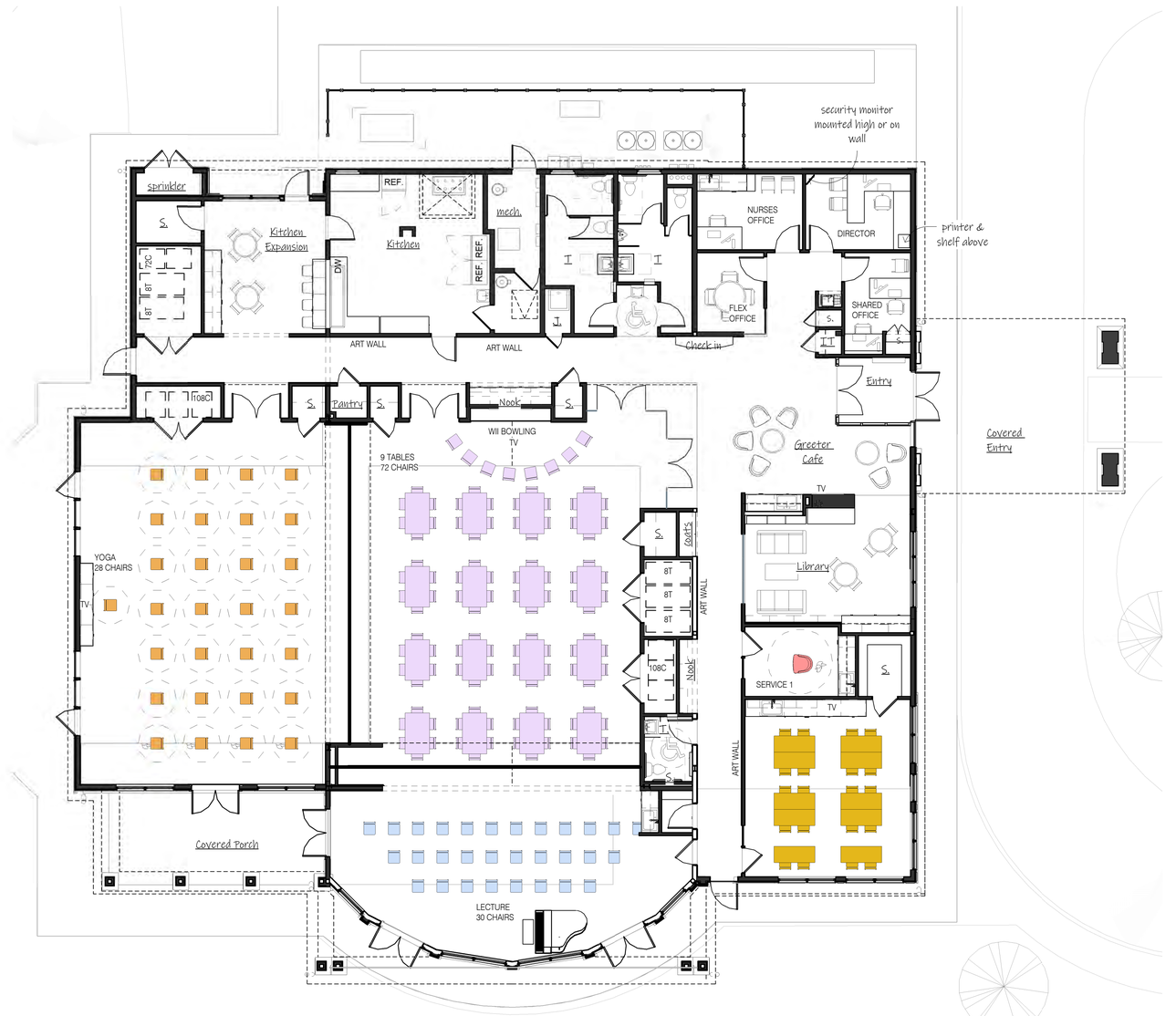
FURNITURE N.I.C., PLANS FOR REFERENCE ONLY



1 PROPOSED FIRST FLOOR - FURNISHING LAYOUT

1/8" = 1'-0"

SPACE: MED. MULTI RM
ACTIVITY: CHAIR YOGA -
28 CHAIRS

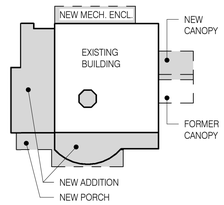
SPACE: LG. MULTI RM
ACTIVITY: DAILY LUNCH & WII BOWLING
9 TABLES
72 CHAIRS

SPACE: SERVICE RM
ACTIVITY: CLINIC / SERVICE SPECIAL
1 SERVICE STATIONS

SPACE: ACTIVITY RM
ACTIVITY: LECTURE / SPEAKER
30 CHAIRS

SPACE: OFFICES
ACTIVITY: NURSE
FLEX BUSINESS RM
SHARED OFFICE
DIRECTOR OFFICE

SPACE: SM. MULTI
ACTIVITY: CRAFTS
20 CHAIRS & 10 TRAINING TABLES



KEY PLAN

1" = 50'-0"

N

LYMES' SENIOR CENTER RENOVATION

26 Town Woods Road
Old Lyme, CT

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101 Shore Road
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TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME: PROPOSED FIRST FLOOR FURNISHNG PLAN

SCALE: As indicated

SHEET: A1.07

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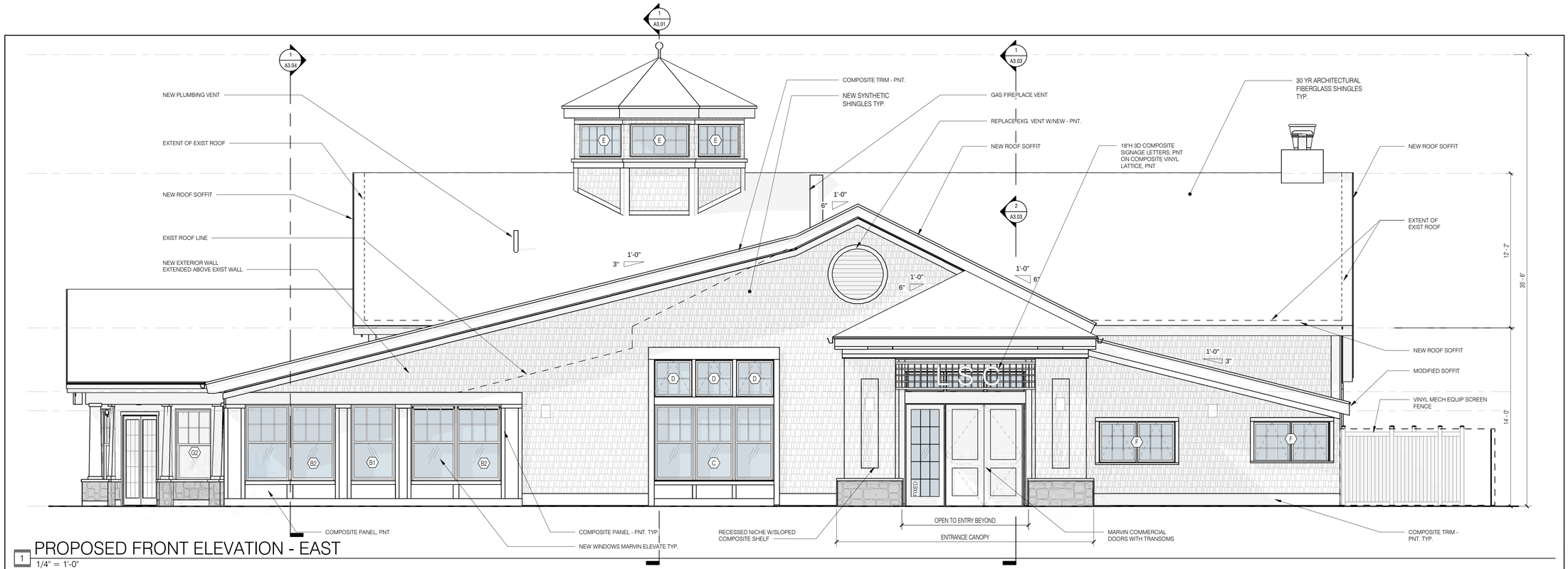
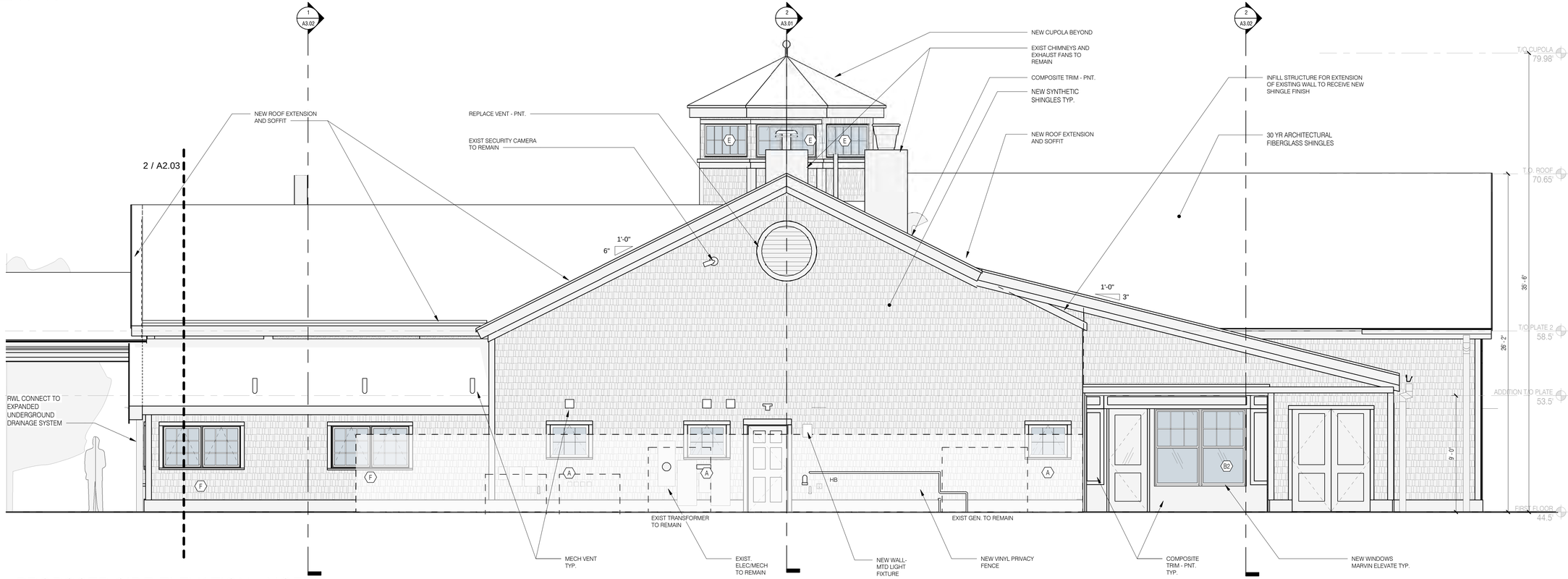


1 PROPOSED FRONT ELEVATION - EAST
1/4" = 1'-0"



2 PROPOSED SIDE ELEVATION - NORTH
1/4" = 1'-0"

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TEC LANDSCAPE DESIGN

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DRAWING NAME:
PROPOSED EXTERIOR ELEVATIONS I

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

SHEET:
A2.01

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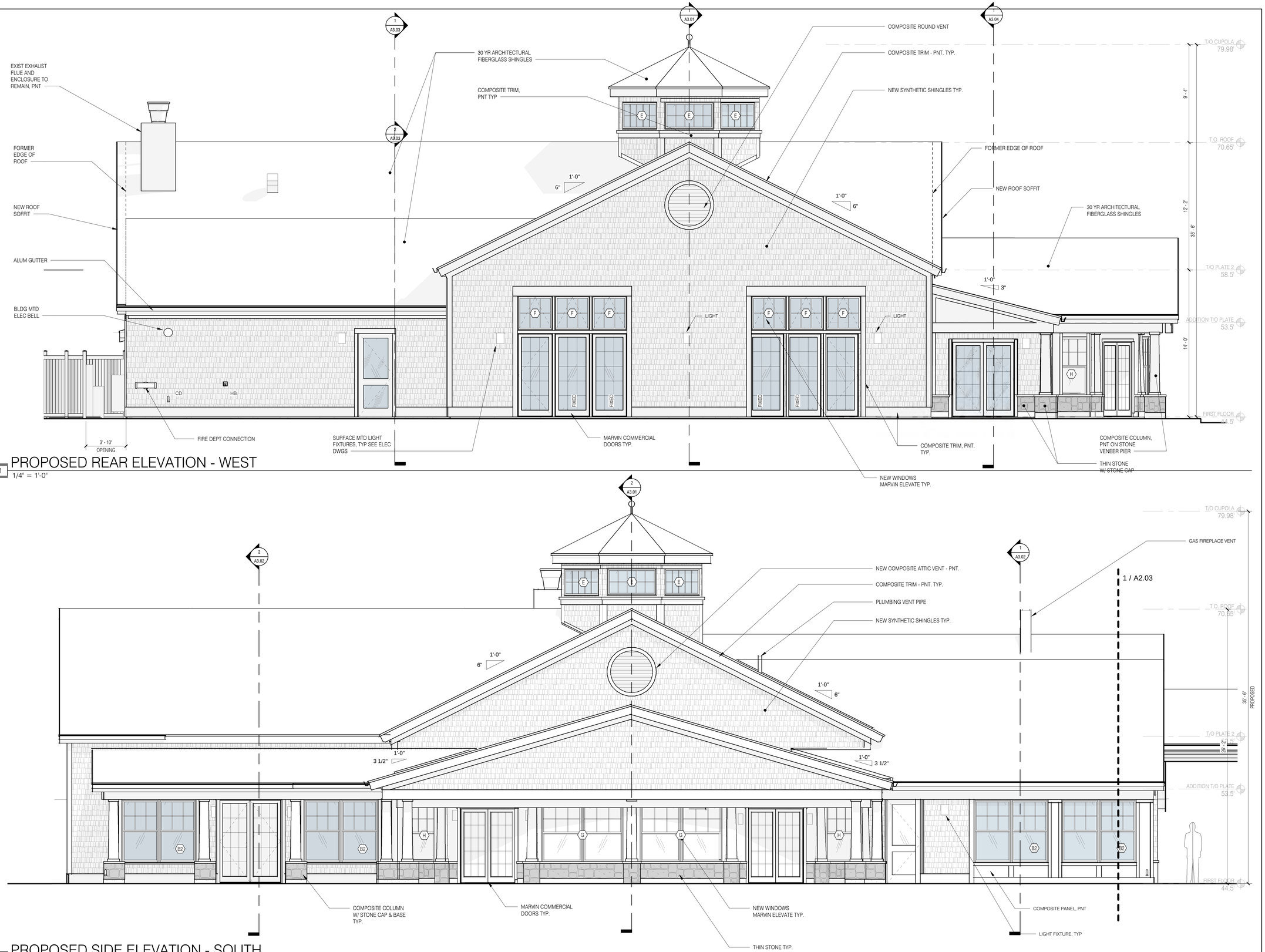

1 PROPOSED REAR ELEVATION - WEST
1/4" = 1'-0"

2 PROPOSED SIDE ELEVATION - SOUTH
1/4" = 1'-0"

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JOB #:	790

REVISIONS:

No.	Date	Description

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DRAWING NAME:

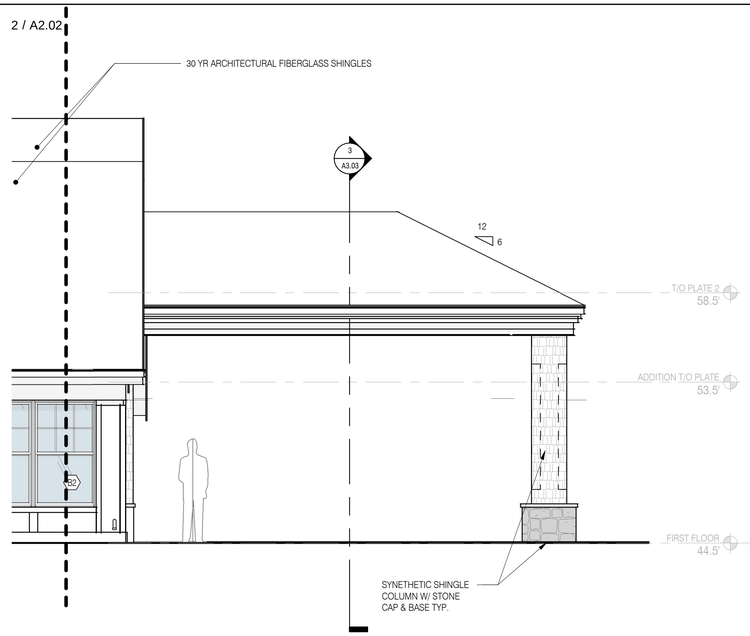
PROPOSED EXTERIOR ELEVATIONS II

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

SHEET:

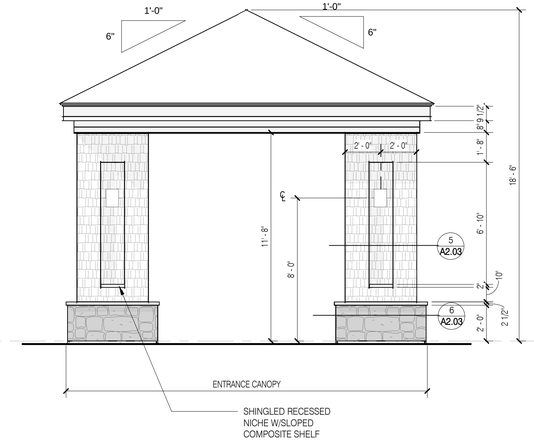
A2.02

POA Project Number: 790



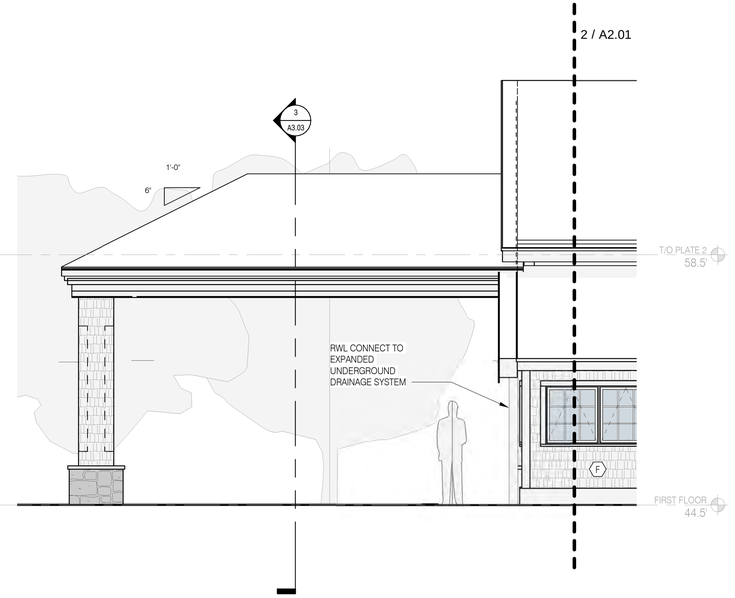
1 PROPOSED CANOPY SOUTH ELEVATION

1/4" = 1'-0"



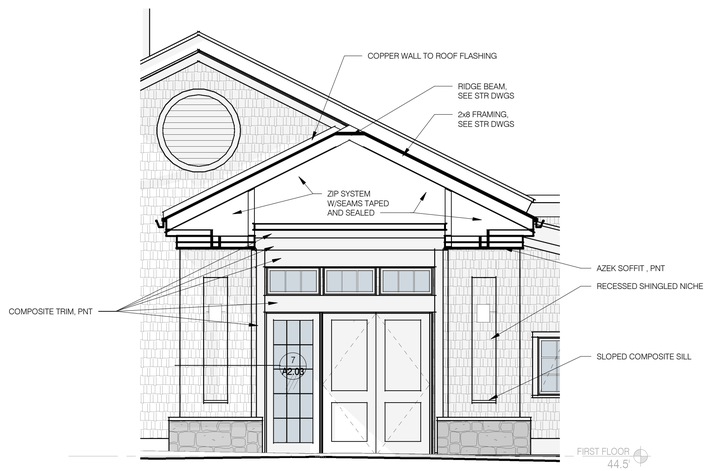
3 PROPOSED CANOPY EAST ELEVATION

1/4" = 1'-0"



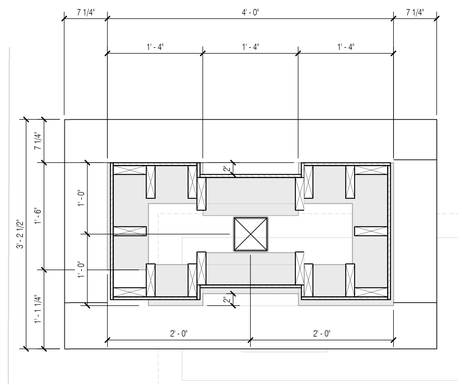
2 PROPOSED CANOPY NORTH ELEVATION

1/4" = 1'-0"



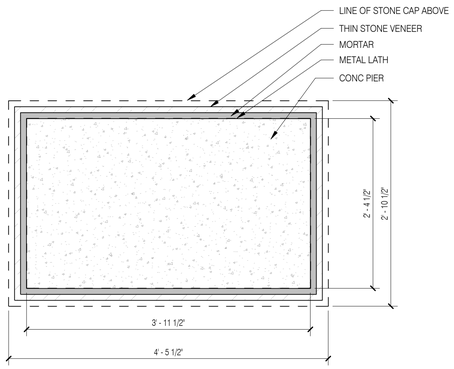
4 PROPOSED EAST ELEVATION UNDER CANOPY

1/4" = 1'-0"



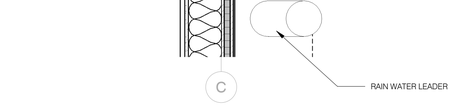
5 PLAN DETAIL @ CANOPY PIER - HIGH

1" = 1'-0"



6 PLAN DETAIL @ CANOPY PIER - LOW

1" = 1'-0"



7 PLAN DETAIL @ FRONT PILASTER

1" = 1'-0"

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JOB #:	790

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DRAWING NAME:

PROPOSED EXTERIOR ELEVATIONS AND DETAILS

SCALE: As indicated

SHEET:

A2.03

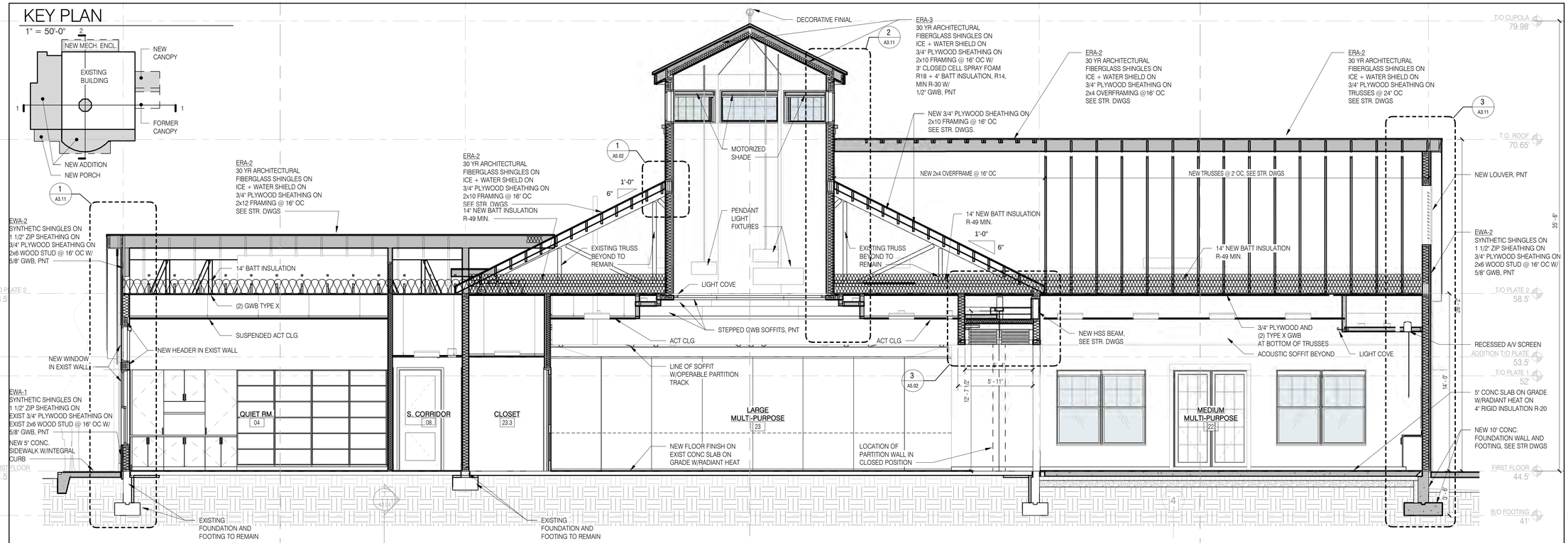
POA Project Number: 790

KEY PLAN

1" = 50'-0"

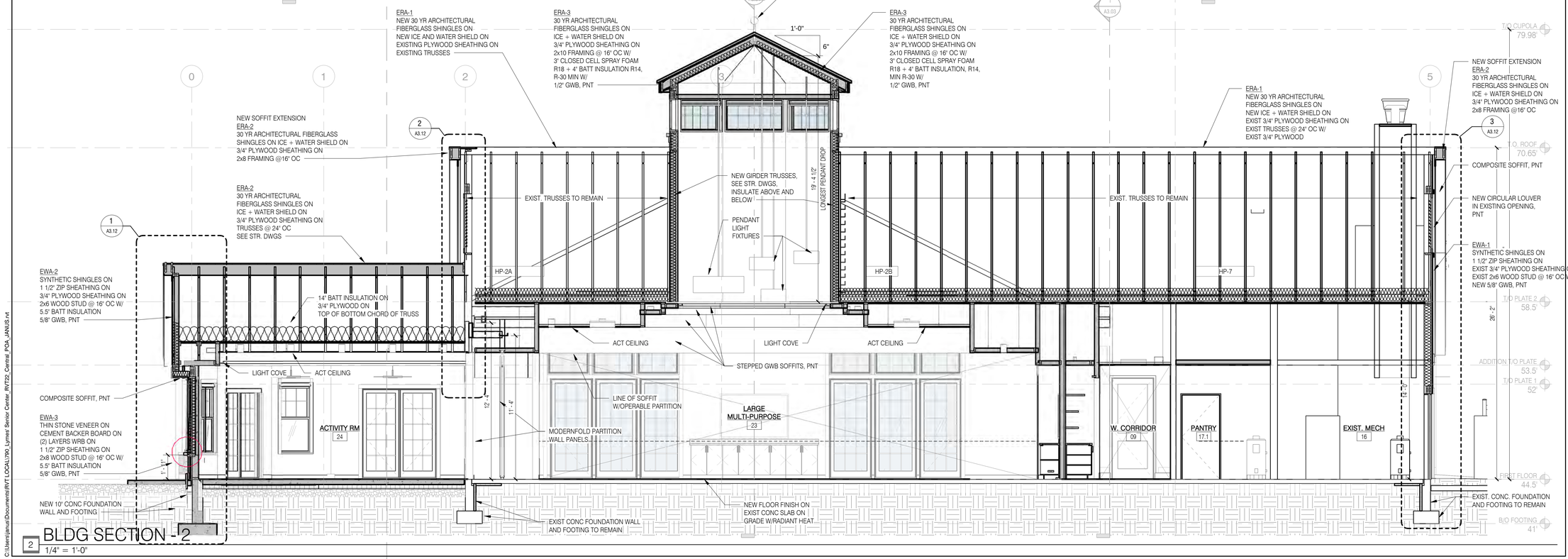
1 BLDG SECTION - 1

1/4" = 1'-0"



2 BLDG SECTION - 2

1/4" = 1'-0"



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TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

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CM REFERENCE

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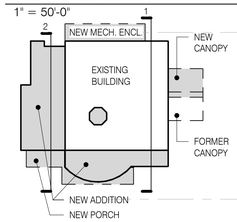
DRAWING NAME: BUILDING SECTIONS I

SCALE: As indicated

SHEET: A3.01

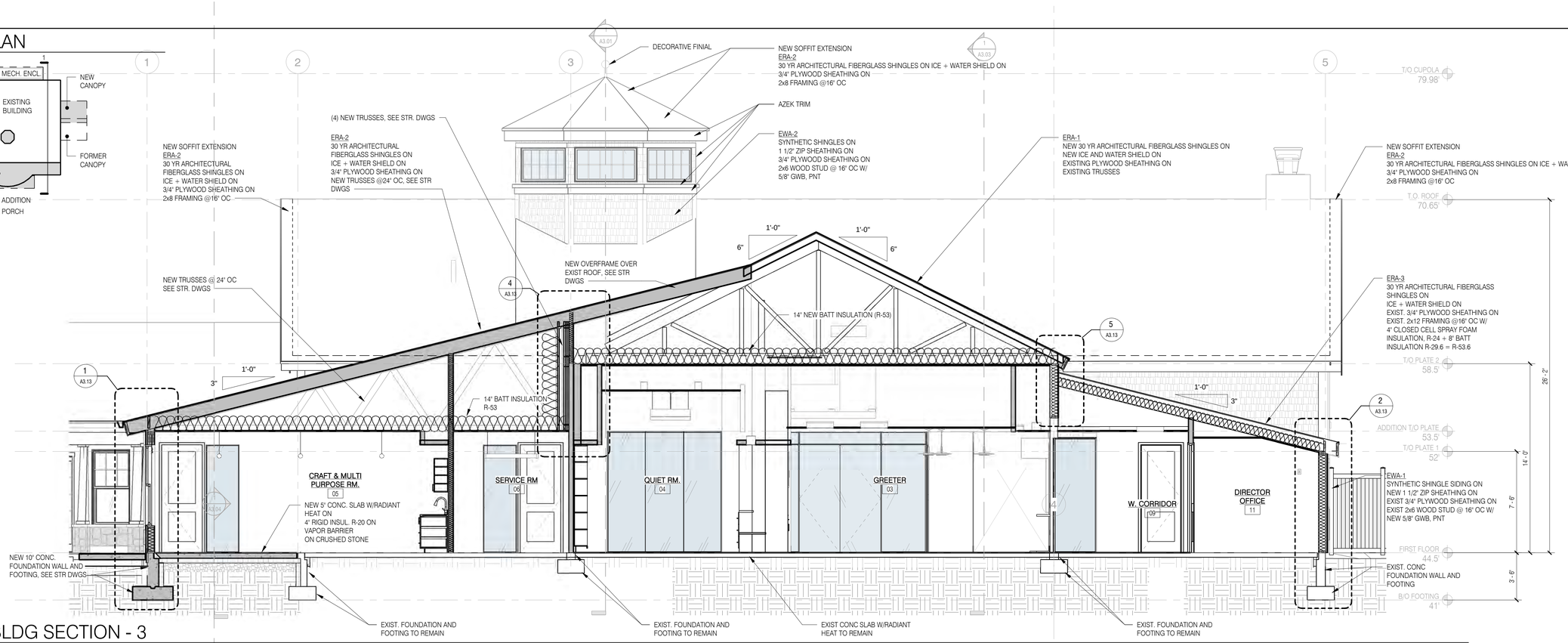
KEY PLAN

1" = 50'-0"



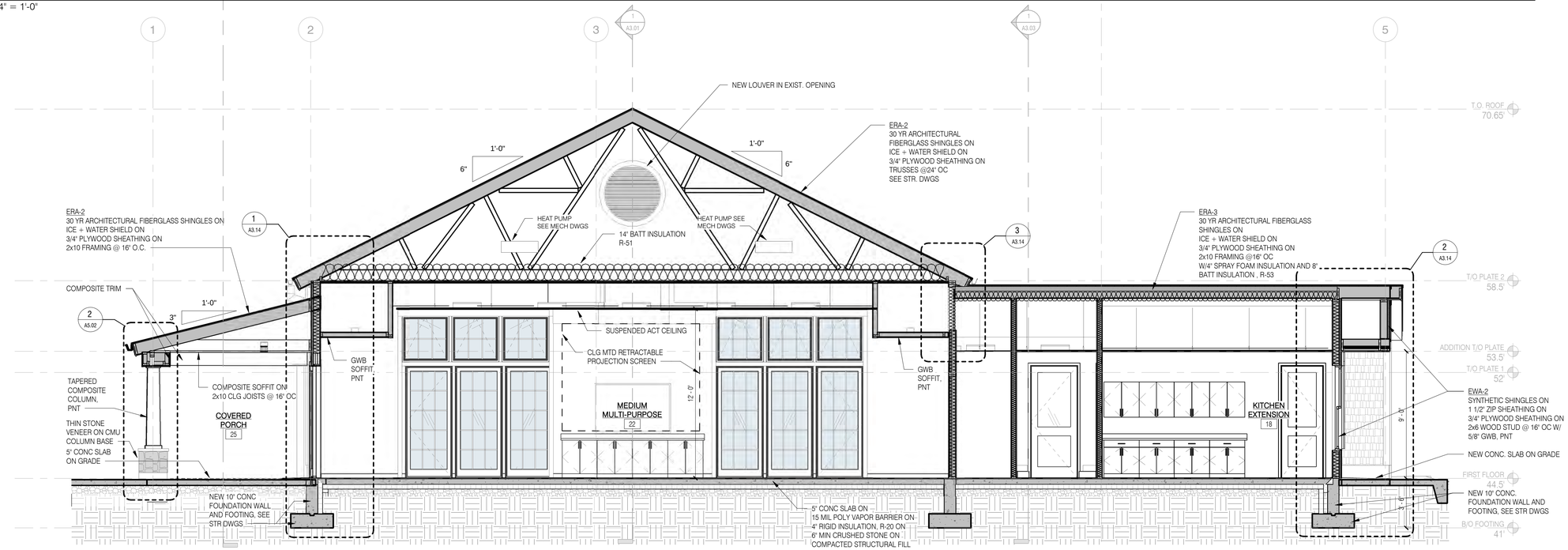
1 BLDG SECTION - 3

1/4" = 1'-0"



2 BLDG SECTION - 4

1/4" = 1'-0"



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DRAWING NAME:

BUILDING SECTIONS II

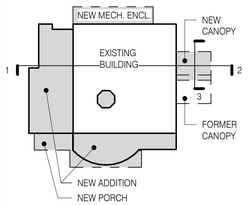
SCALE: As indicated

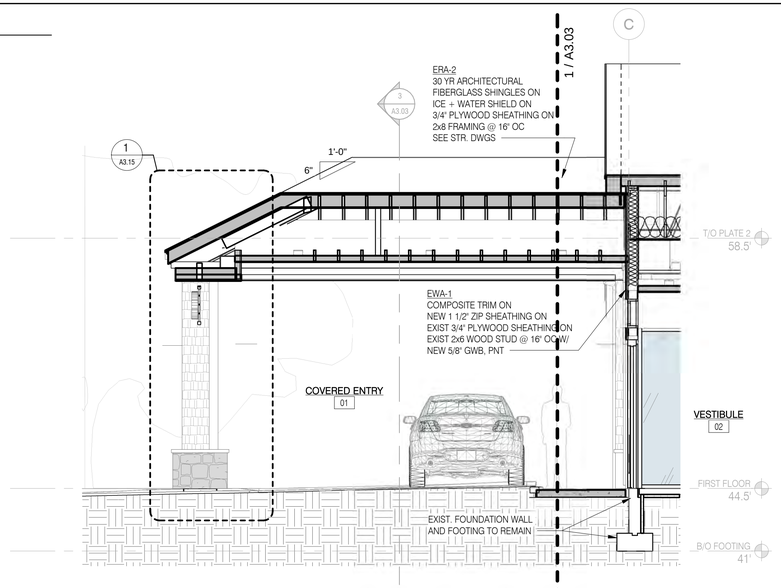
SHEET:

A3.02

KEY PLAN

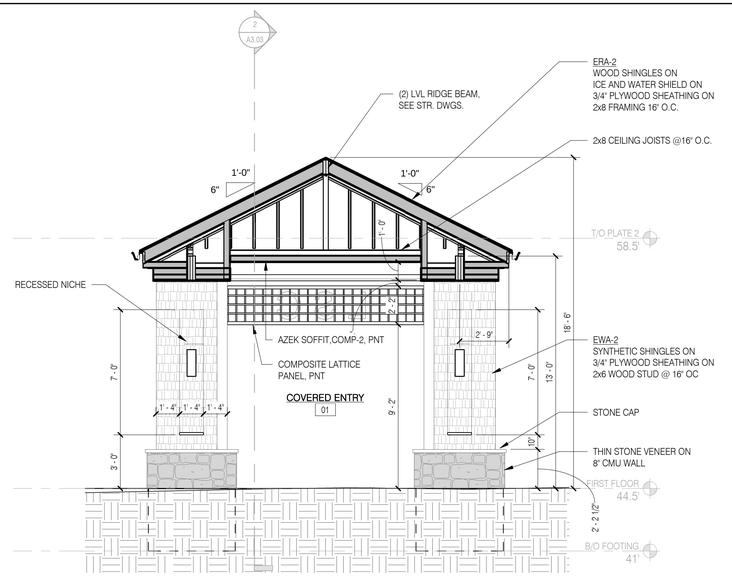
1" = 50'-0"





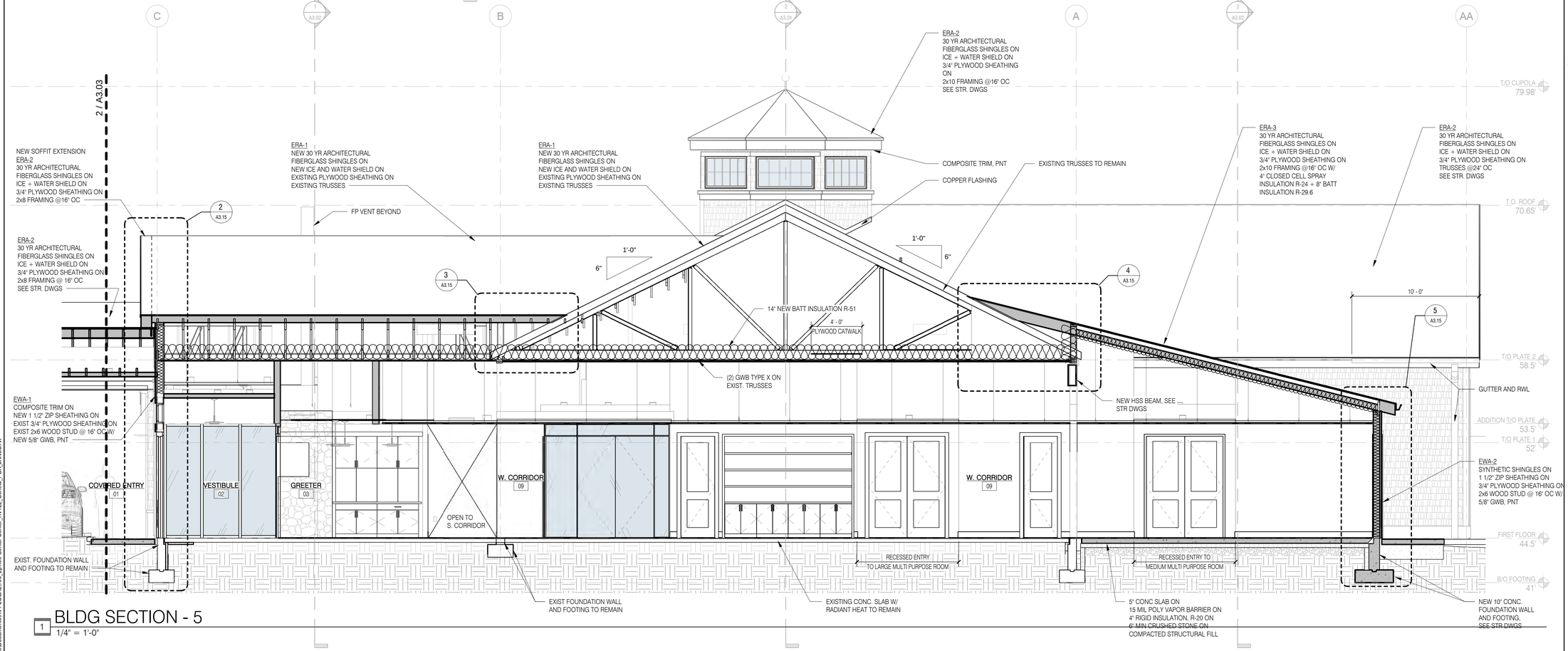
2 BLDG SECTION 5 - ENTRY CANOPY

1/4" = 1'-0"



3 BLDG SECTION - 6

1/4" = 1'-0"



1 BLDG SECTION - 5

1/4" = 1'-0"

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TEC LANDSCAPE DESIGN

PHASE:
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DRAWING NAME:
BUILDING SECTIONS III

SCALE: As indicated

SHEET:
A3.03

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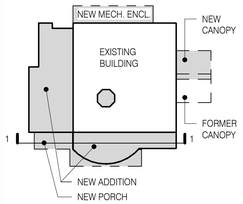
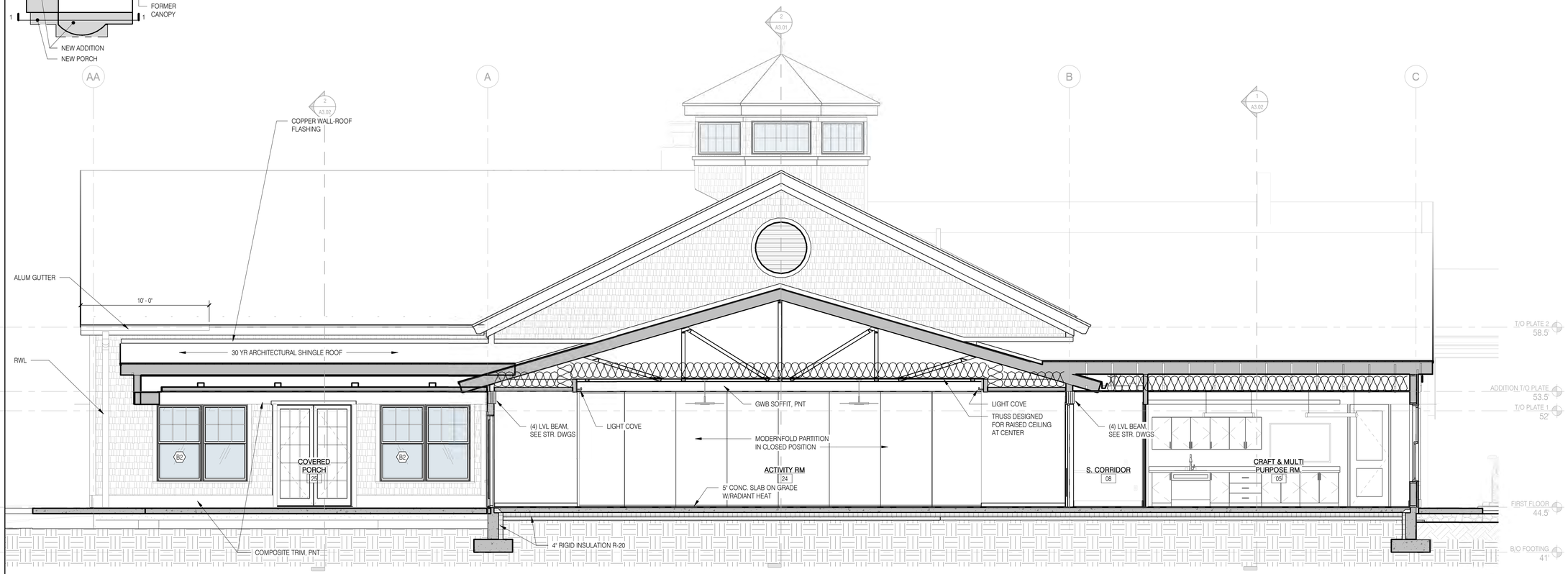
KEY PLAN

1" = 50'-0"





1 BUILDING SECTION 7

1/4" = 1'-0"

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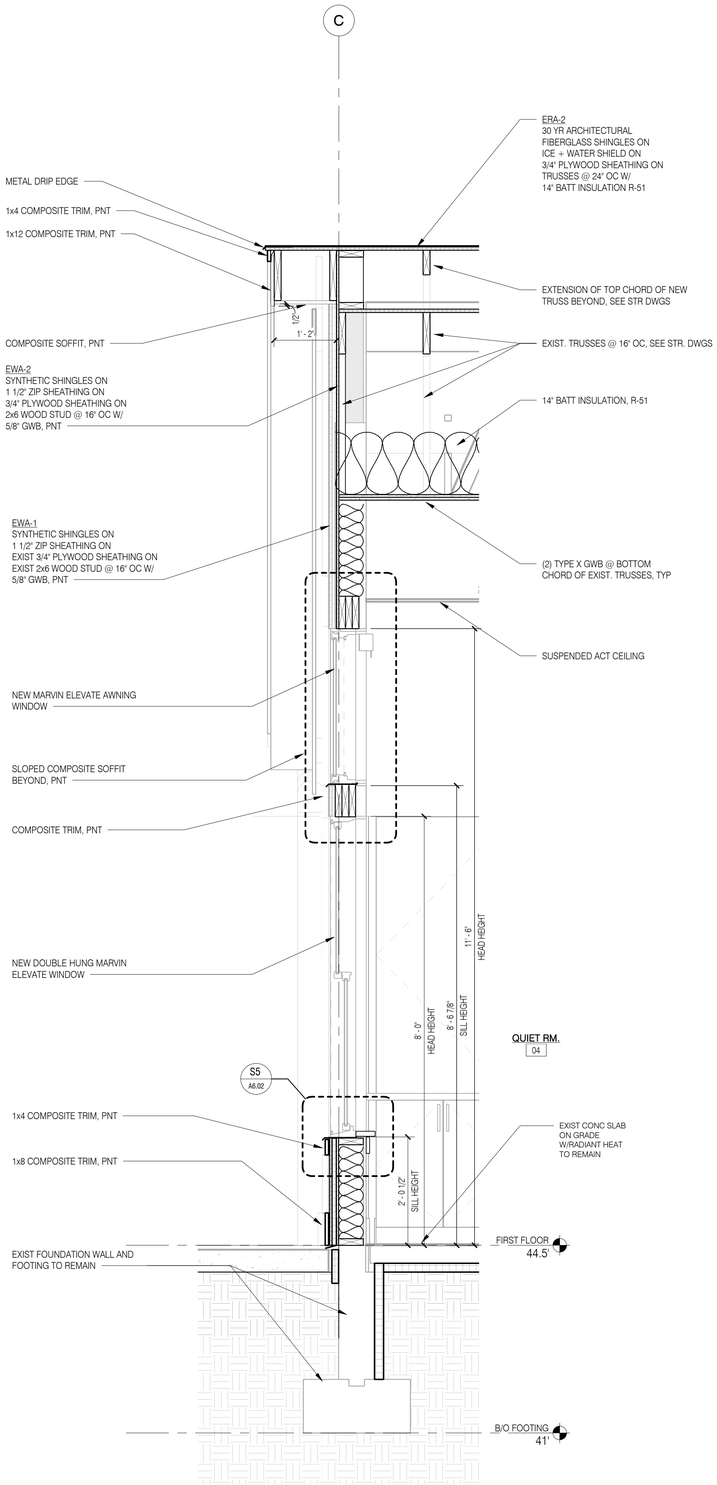
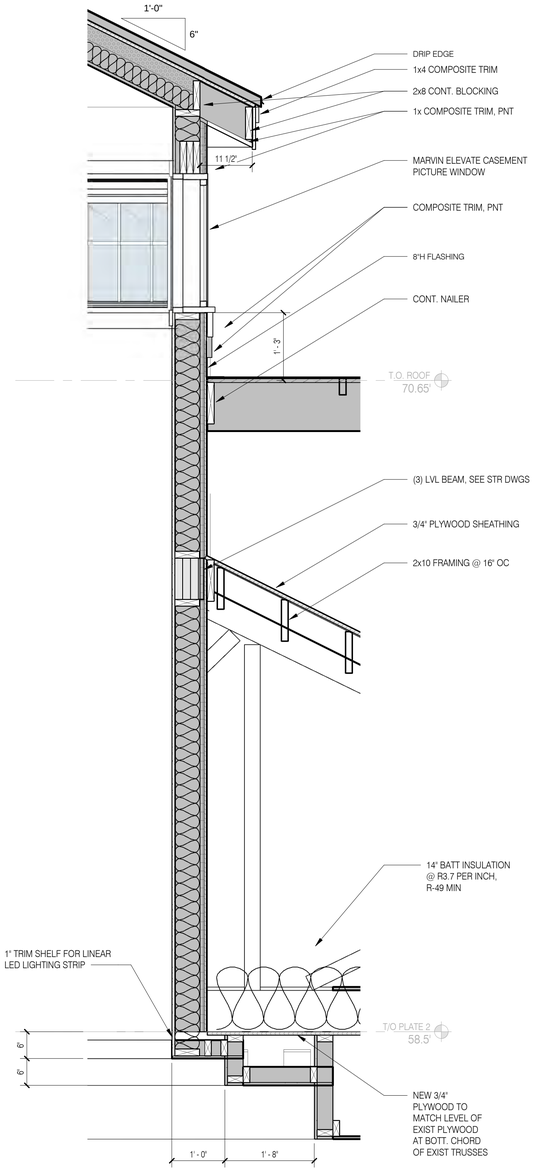
SCALE: As indicated

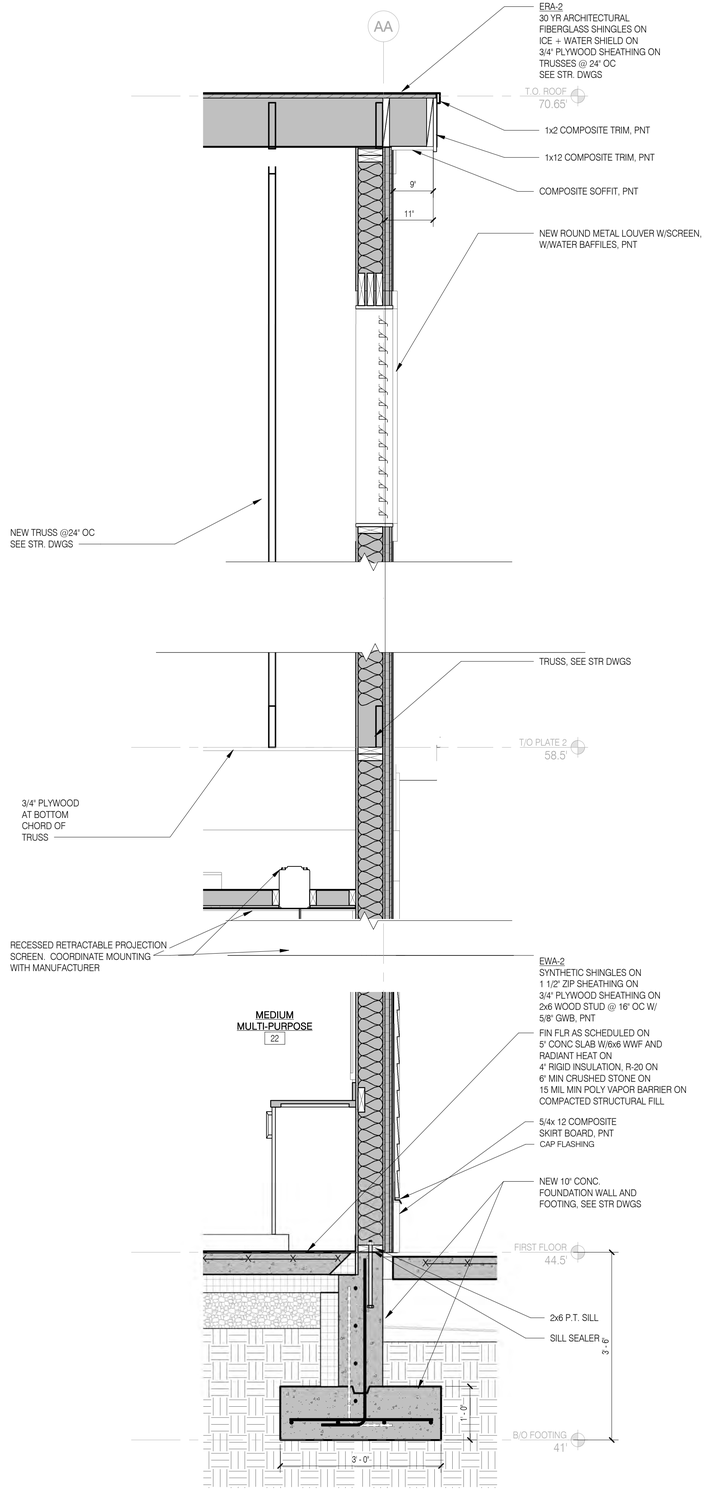
SHEET:
A3.04



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



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



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

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DRAWING NAME:
WALL SECTIONS I

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

SHEET:
A3.11

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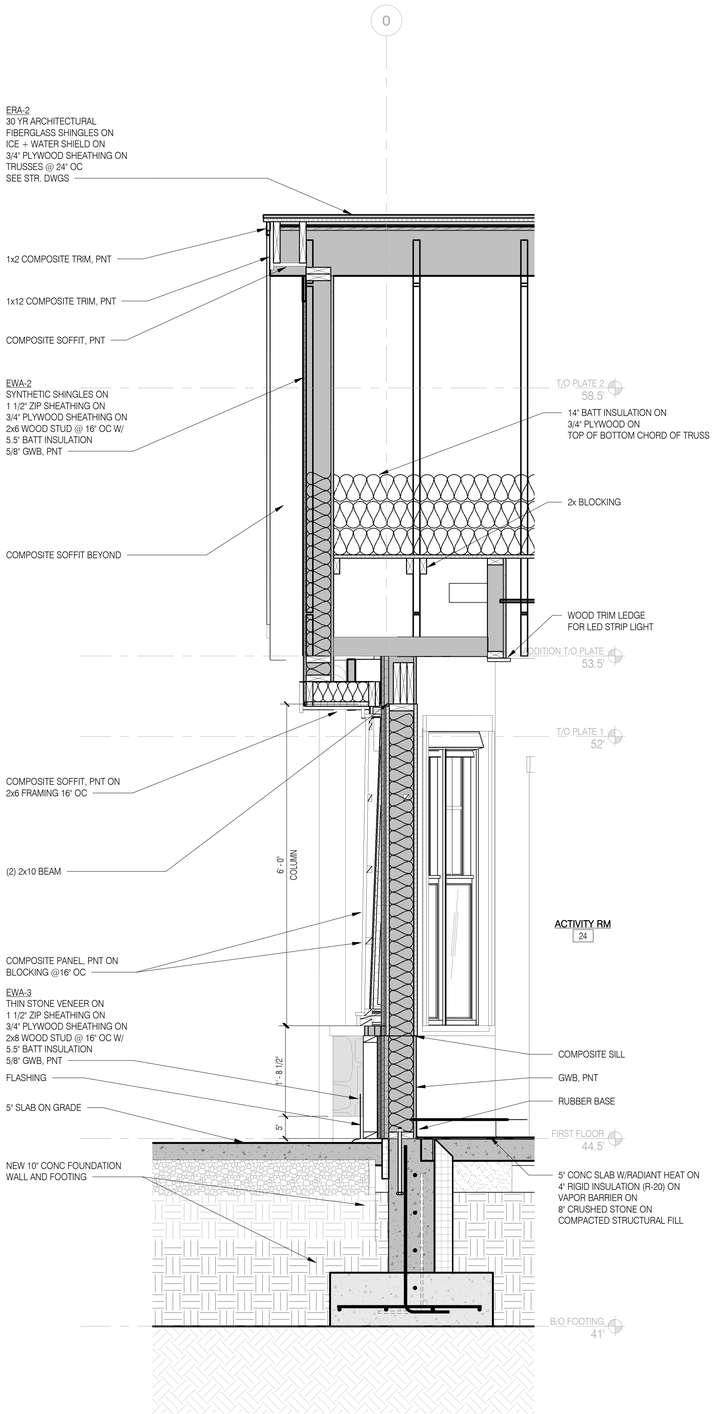
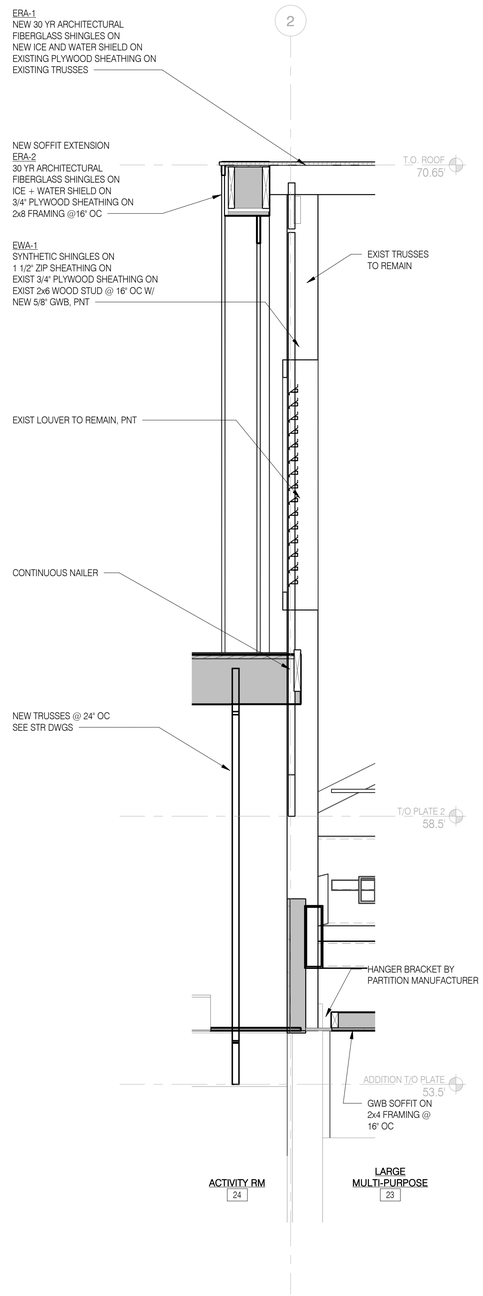
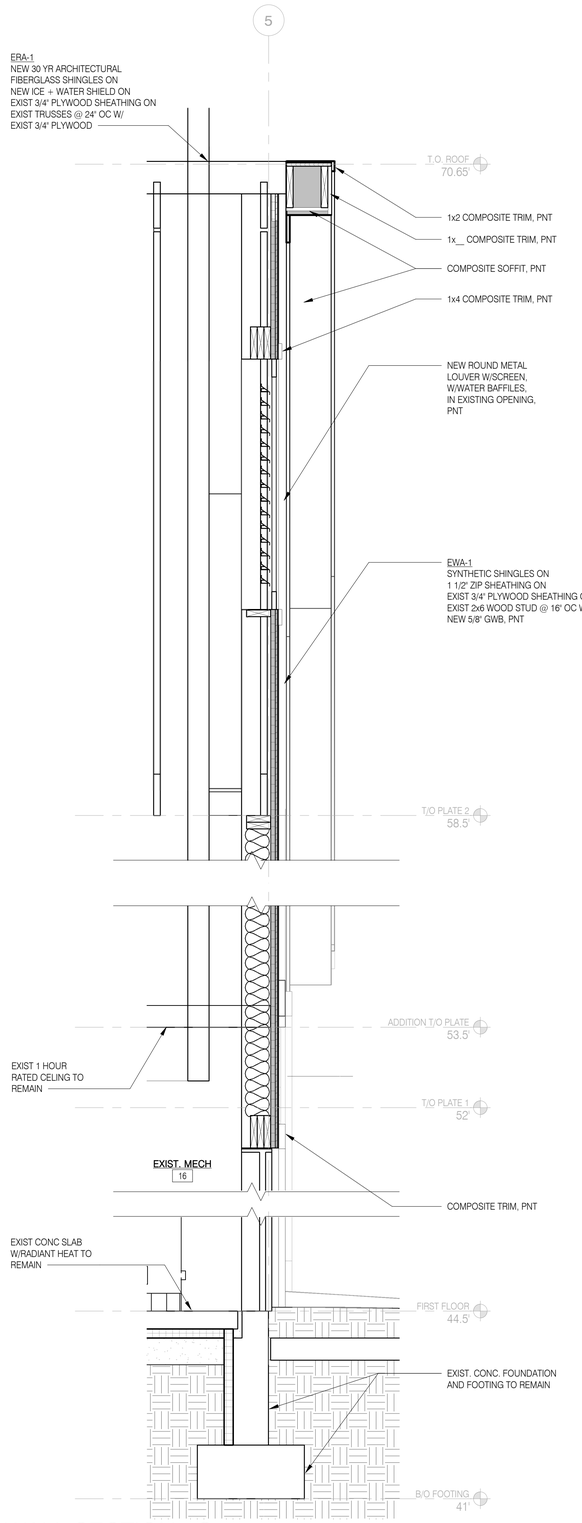


1 WALL SECTION 2A
3/4" = 1'-0"



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



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

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TEC LANDSCAPE
DESIGN

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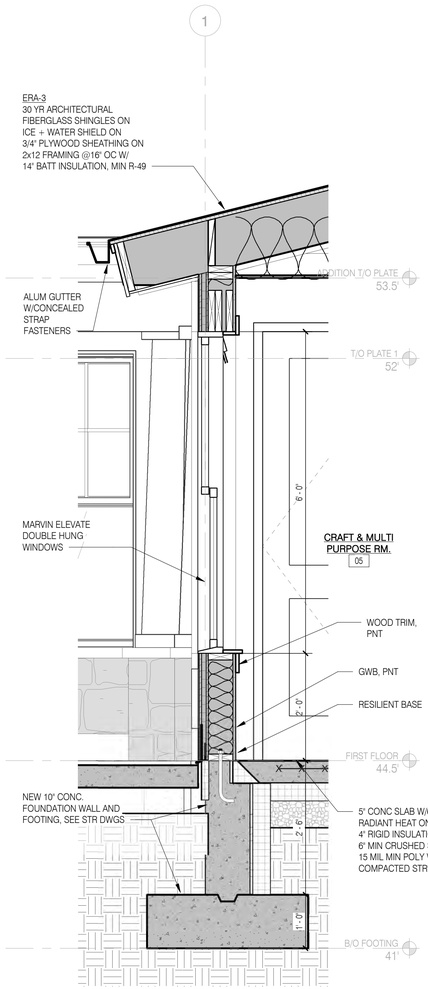
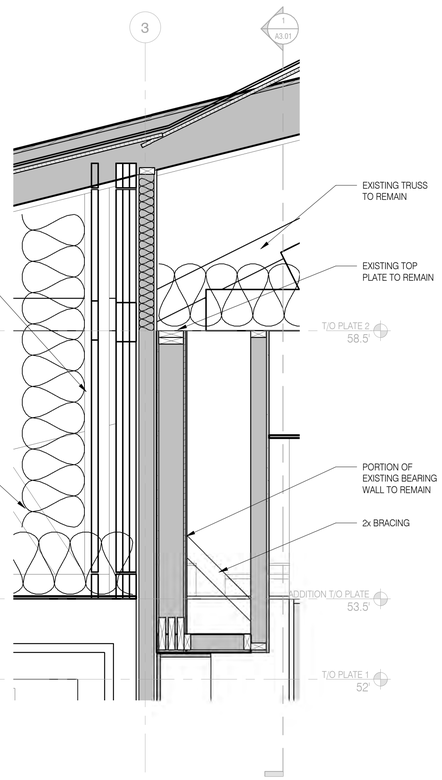
DRAWING NAME:
WALL SECTIONS II

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

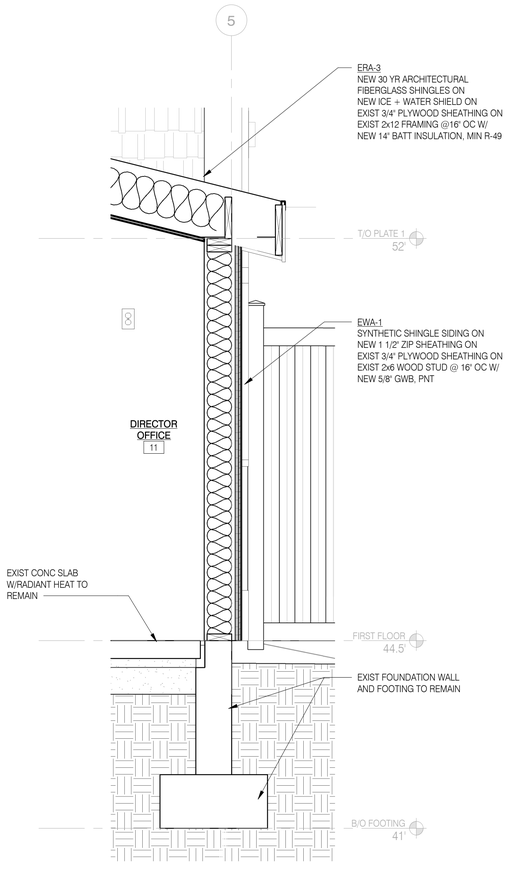
SHEET:
A3.12



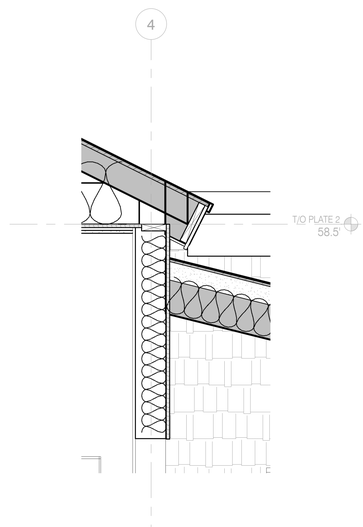
1 WALL SECTION 3A
3/4" = 1'-0"



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



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



5 SECTION DETAIL 3C
3/4" = 1'-0"

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Telephone: (203) 245-0752

TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	Author
CHECKED BY:	Checker
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME:
WALL SECTIONS III

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

SHEET:
A3.13

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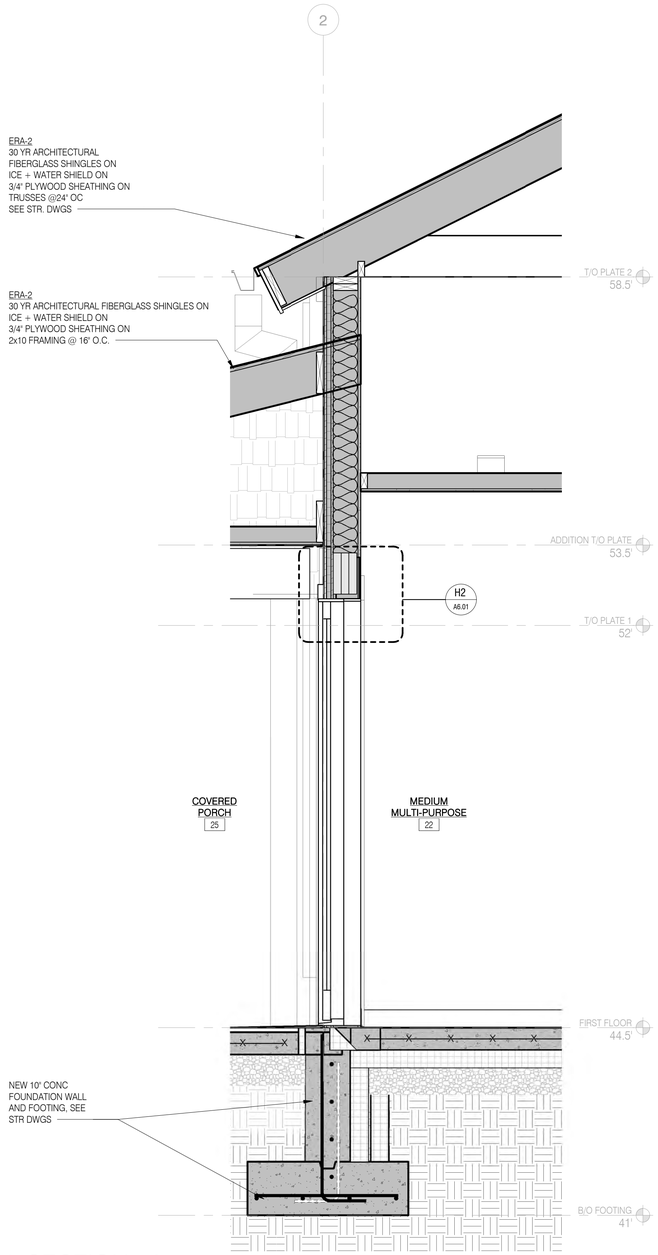
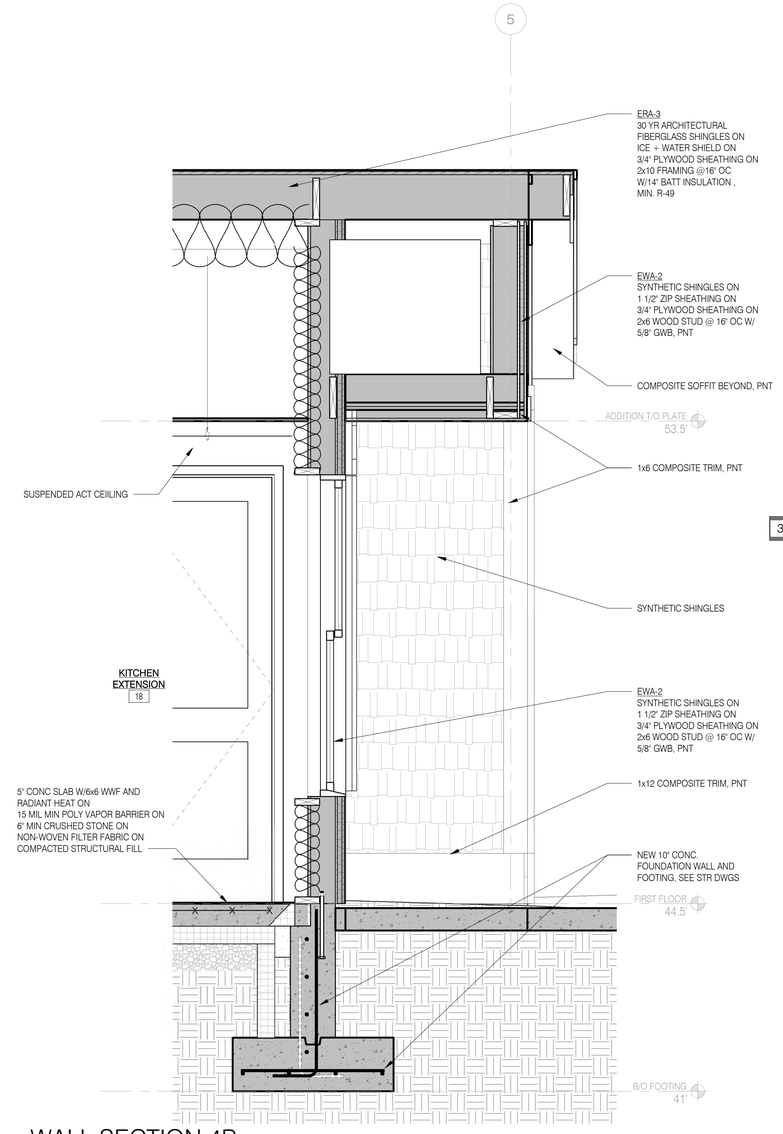
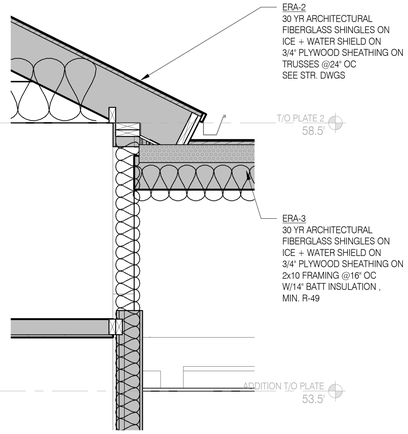


1 WALL SECTION 4A
3/4" = 1'-0"



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



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

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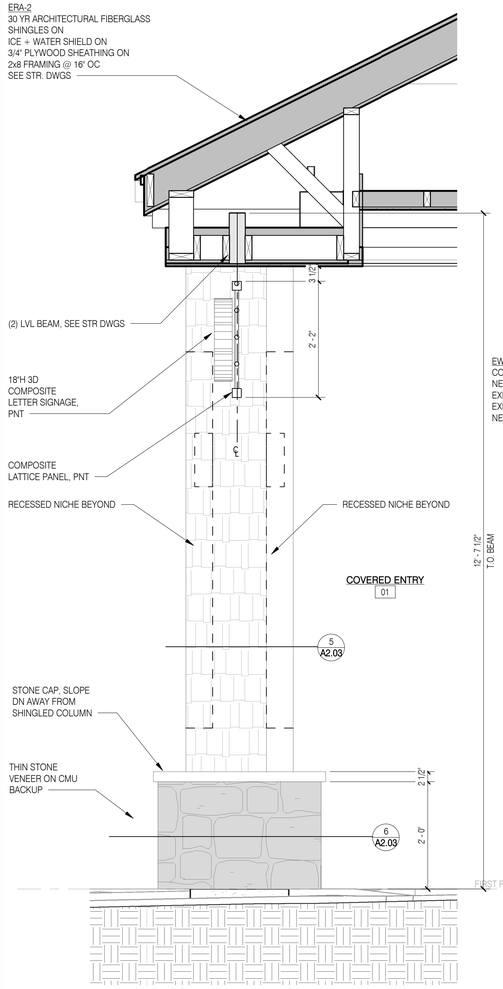
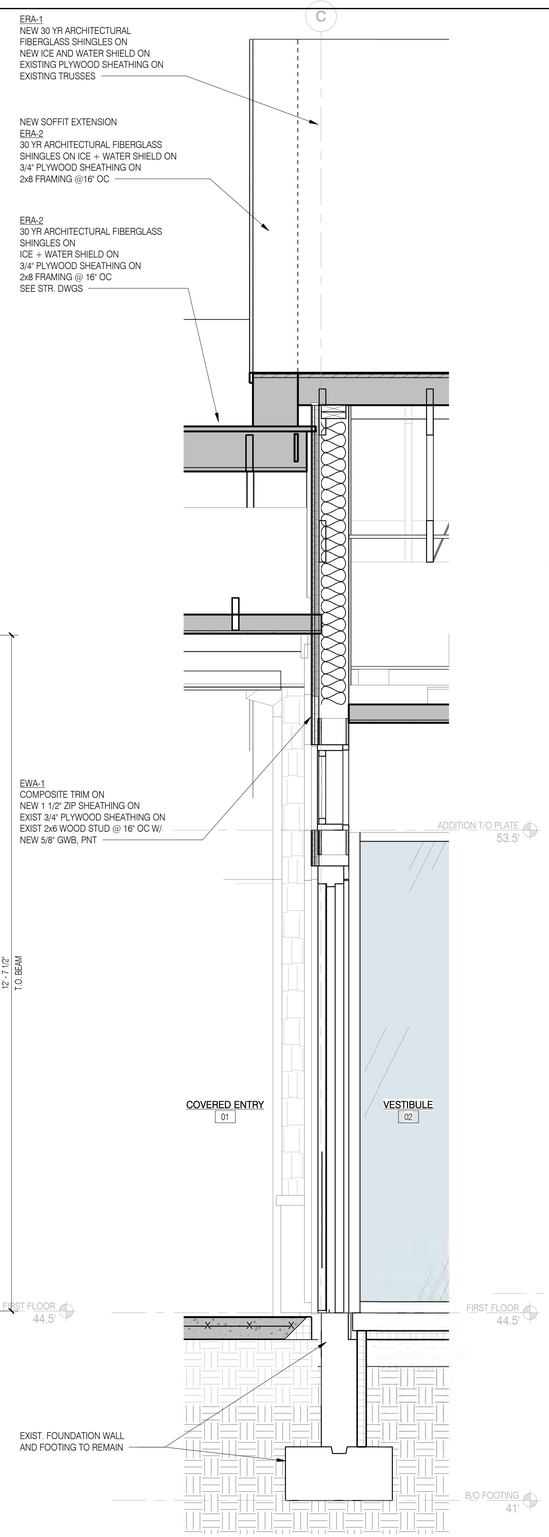
WALL SECTIONS IV

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

SHEET:
A3.14



1 WALL SECTION 5A
3/4" = 1'-0"



2 WALL SECTION 5B
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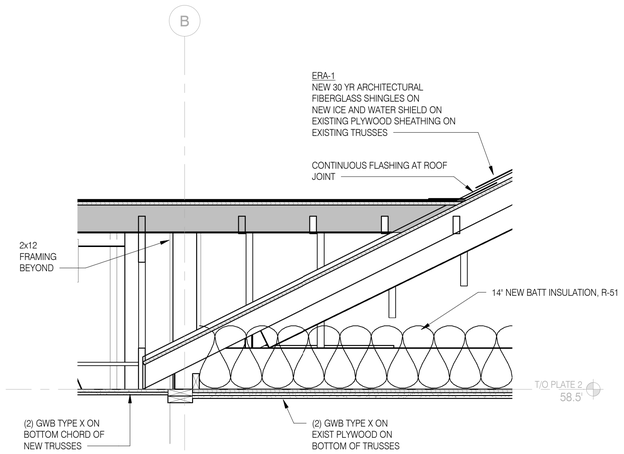
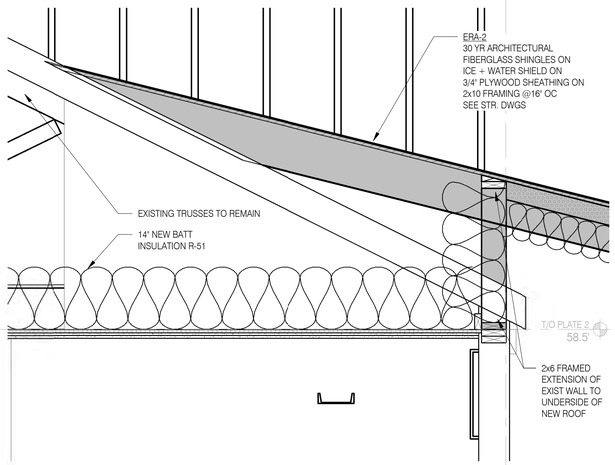
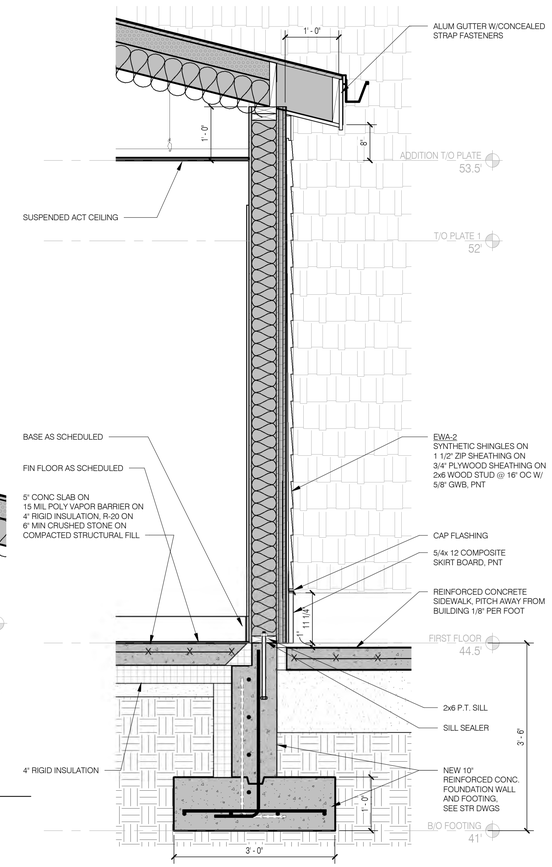


3 SECTION DETAIL 5C
3/4" = 1'-0"



4 SECTION DETAIL 5D
3/4" = 1'-0"



5 WALL SECTION 5E
3/4" = 1'-0"

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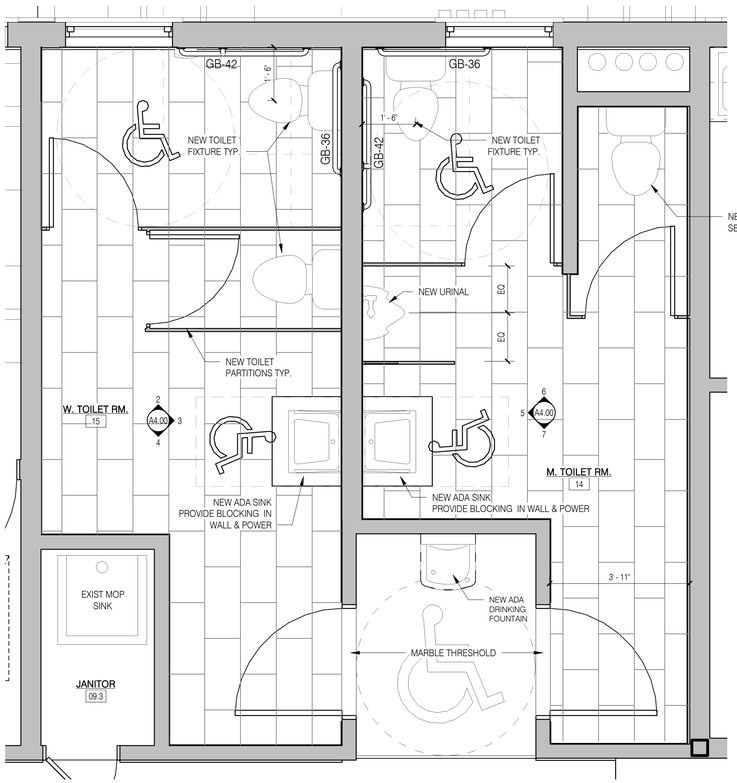
DRAWING NAME:
WALL SECTIONS V

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

SHEET:
A3.15



1

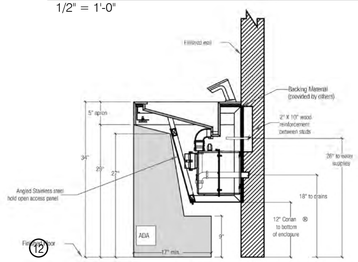
ENLARGED TOILET ROOMS
1/2" = 1'-0"

6

MEN'S TOILET ROOM 14- NORTH
1/2" = 1'-0"

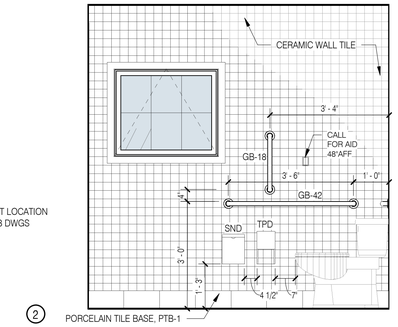
7

MEN'S TOILET ROOM 14 - SOUTH
1/2" = 1'-0"



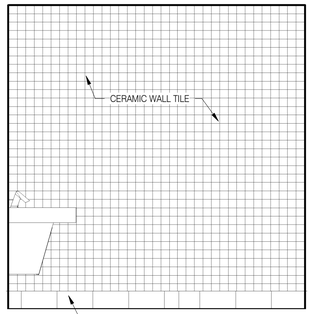
12

ADA BATHROOM SINK
3/4" = 1'-0"



2

WOMEN'S TOILET ROOM 15 - NORTH
1/2" = 1'-0"



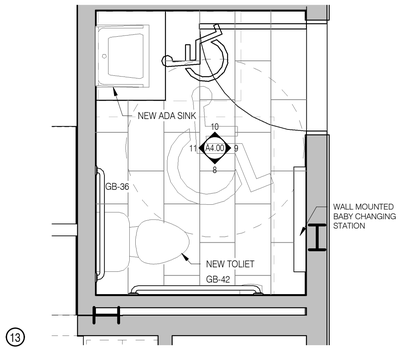
4

WOMEN'S TOILET ROOM 15 - SOUTH
1/2" = 1'-0"

BATHROOM ACCESSORY LEGEND

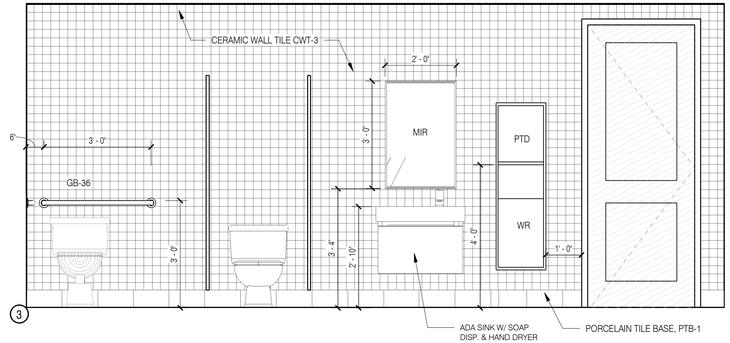
CA	EMERGENCY CALL FOR AID
GB-36	1 1/2" DIA. STAINLESS STEEL GRAB BAR - 36" LONG; BOBRICK B6806
GB-24	1 1/2" DIA. STAINLESS STEEL GRAB BAR - 42" LONG; BOBRICK B6806
GB-18	1 1/2" DIA. STAINLESS STEEL VERTICAL GRAB BAR - 18" LONG; BOBRICK B6806
HK	COAT HOOK @ EACH PARTITION DOOR; BOBRICK B233
TPD	RECESSED MOUNTED TOILET TISSUE DISPENSER; BOBRICK- B356
SND	WALL MOUNTED SANITARY NAPKIN DISPOSAL; BOBRICK B270
MIR	24" X 36" MIRROR WITH STAINLESS STEEL FRAME; BOBRICK B293
PTD/WR	RECESSED MOUNTED PAPER TOWEL/WASTE RECEPTABLE COMBO BOBRICK- B3940
SINK	WALL MOUNTED ADA SINK- SLOAN AD-81000 AER-DEC
BCS	WALL MOUNTED BABY CHANGING STATION - KOALA KB300 SURFACE MOUNT

NOTE: PROVIDE ADEQUATE WOOD BLOCKING IN METAL STUD WALLS FOR PROPER SUPPORT OF ALL TOILET ACCESSORIES.



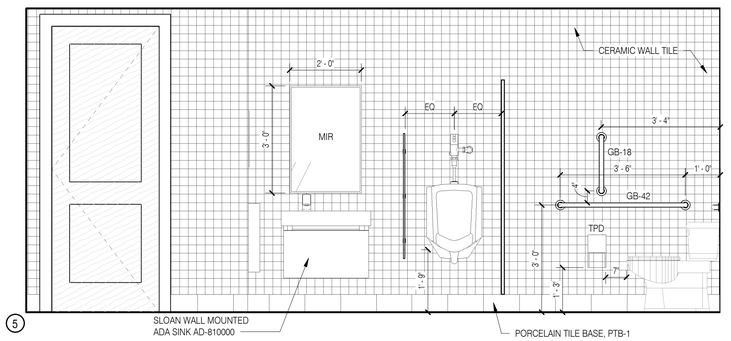
13

ENLARGED SM TOILET ROOM
1/2" = 1'-0"



3

WOMEN'S TOILET ROOM 15 - EAST
1/2" = 1'-0"



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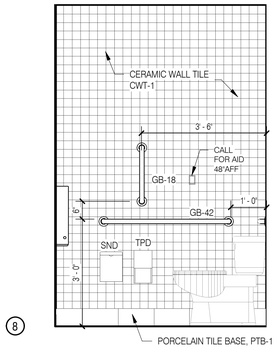
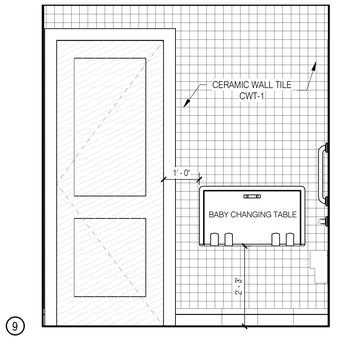
MEN'S TOILET ROOM 14 - WEST
1/2" = 1'-0"



8

TOILET RM 07 - SOUTH
1/2" = 1'-0"



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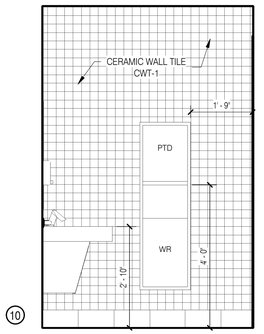
TOILET RM 07 - EAST
1/2" = 1'-0"



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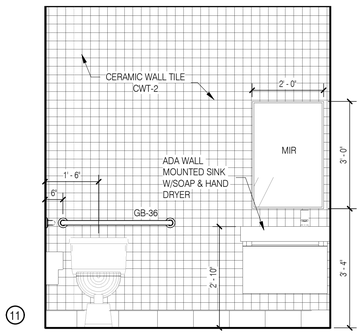
TOILET - NORTH
1/2" = 1'-0"



11

TOILET RM 07 - WEST
1/2" = 1'-0"

N

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TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
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CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

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SCALE: As indicated

SHEET:
A4.00

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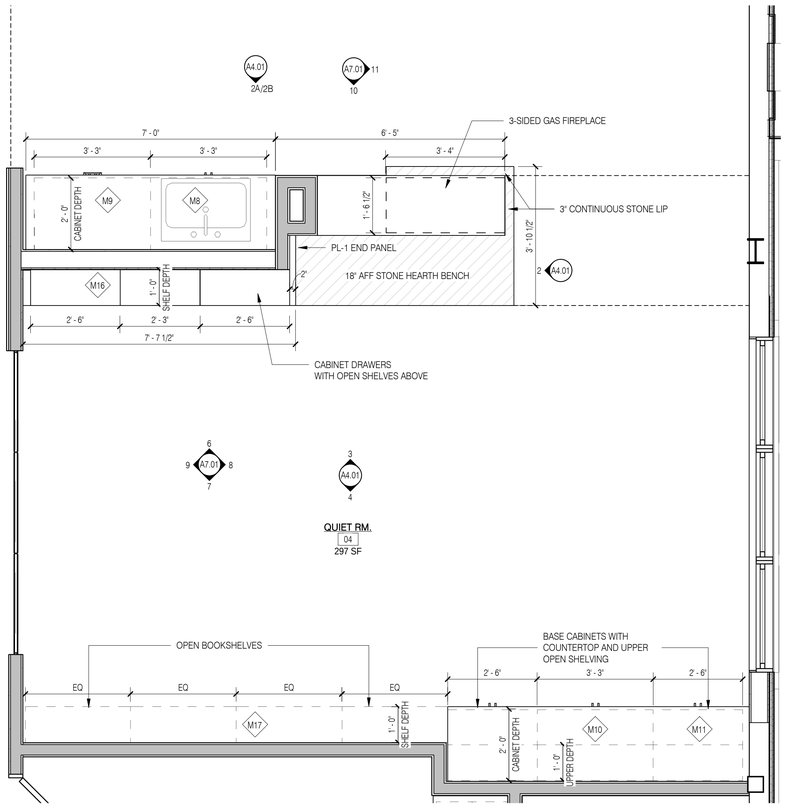
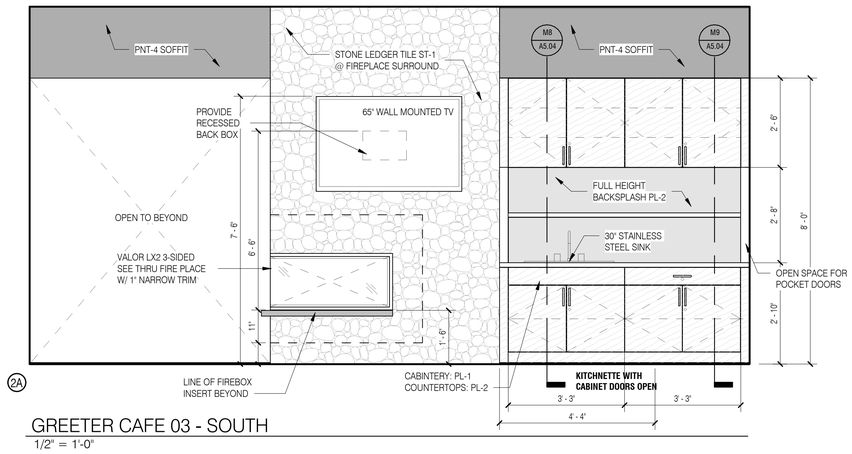


1

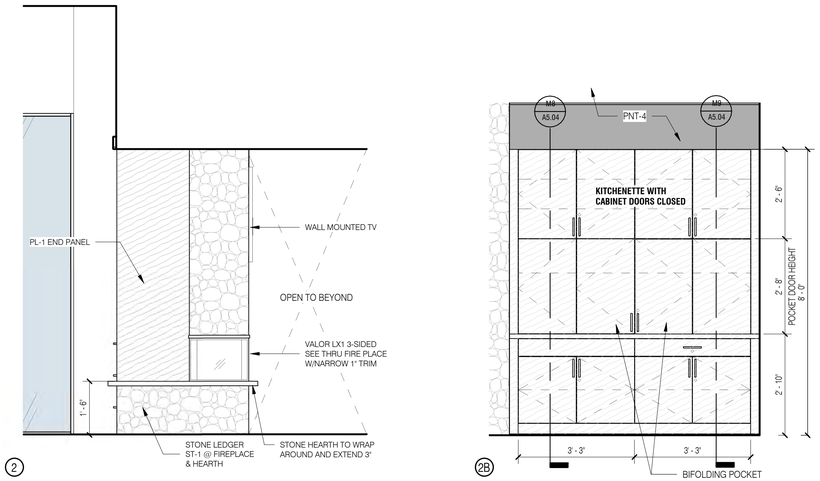
ENLARGED GREETER/LIBRARY

1/2" = 1'-0"



GREETER CAFE 03 - SOUTH

1/2" = 1'-0"



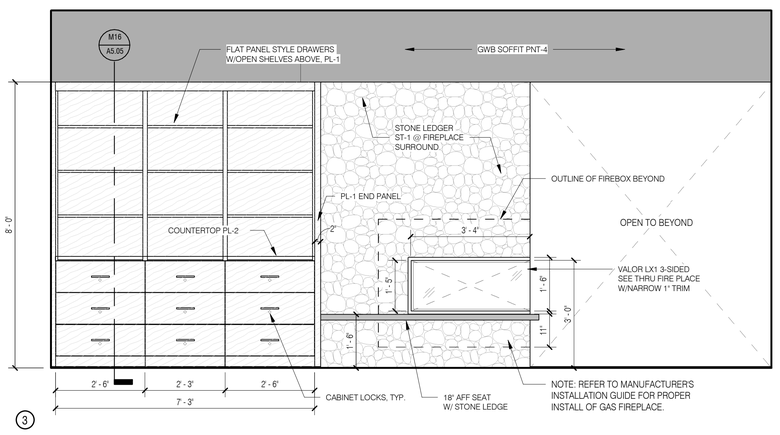
2

FIREPLACE - WEST

1/2" = 1'-0"

GREETER CAFE 03 - SOUTH 1

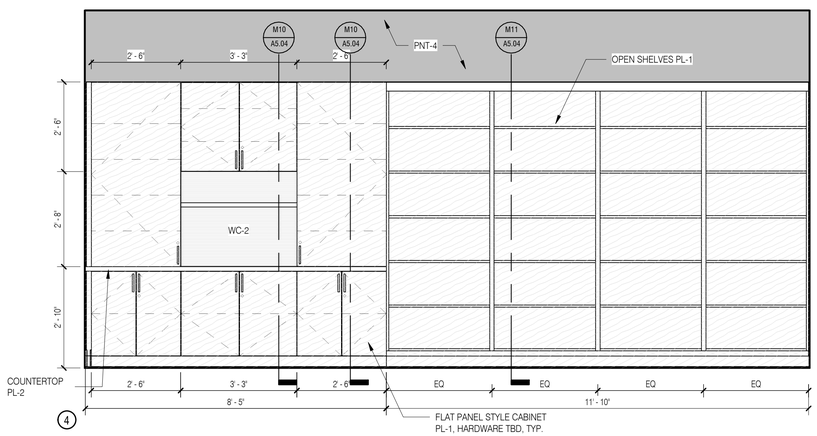
1/2" = 1'-0"



3

QUIET ROOM 04 - NORTH

1/2" = 1'-0"



4

QUIET ROOM 04 - SOUTH

1/2" = 1'-0"

N

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A4.01

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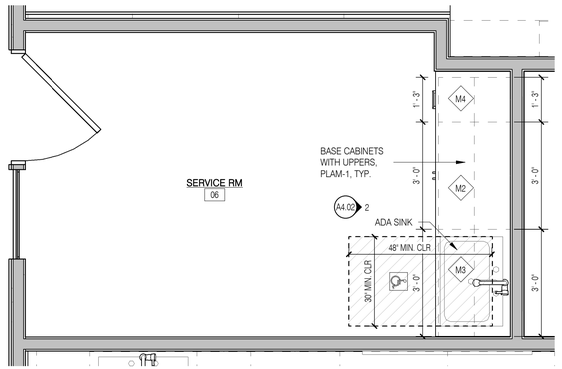
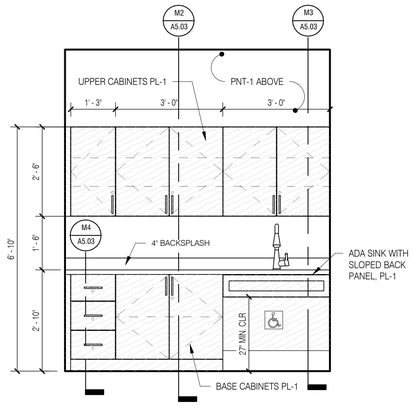


1

ENLARGED SERVICE ROOM 06

1/2" = 1'-0"



2

SERVICE ROOM 06 - EAST

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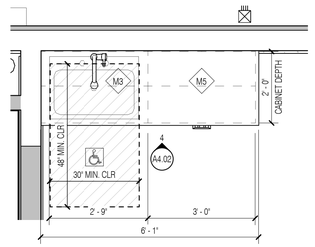

3

ENLARGED TOWN NURSE 12

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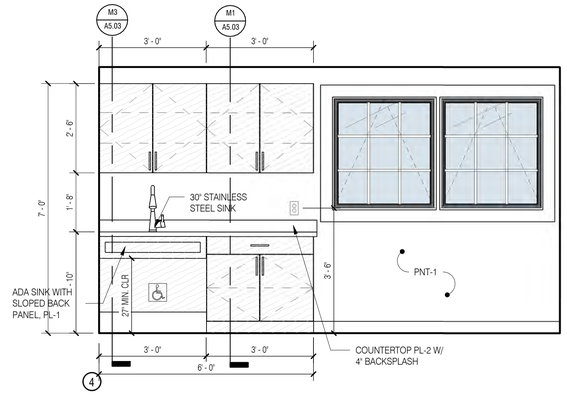
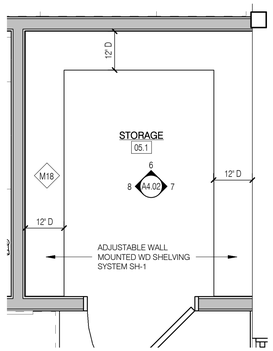


4

TOWN NURSE 12 - NORTH

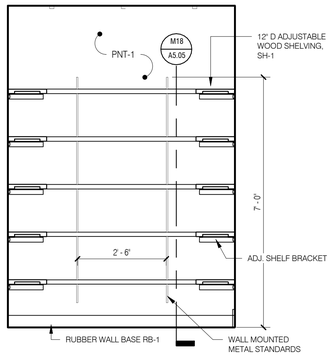
1/2" = 1'-0"



5

ENLARGED STORAGE

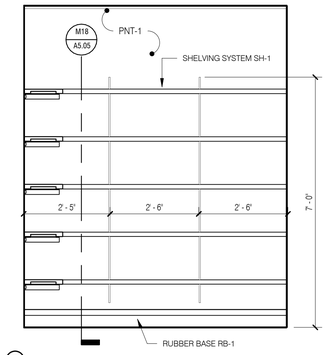
1/2" = 1'-0"



6

STORAGE 05A - NORTH

1/2" = 1'-0"



7

STORAGE 05A - EAST

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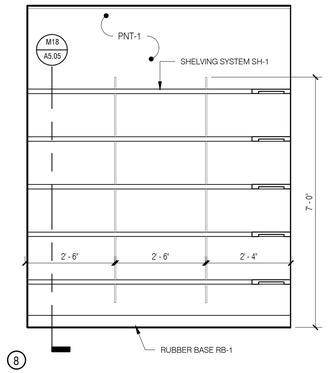
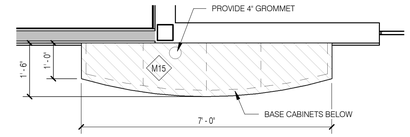


8

STORAGE 05A - WEST

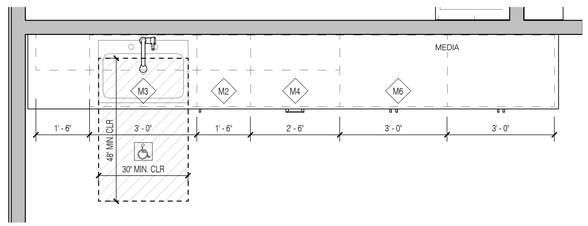
1/2" = 1'-0"



9

ENLARGED CHECK-IN DESK

1/2" = 1'-0"



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ENLARGED CRAFTS ROOM

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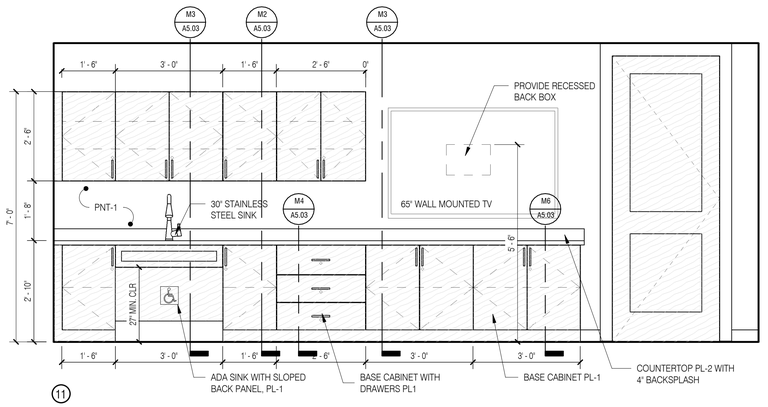
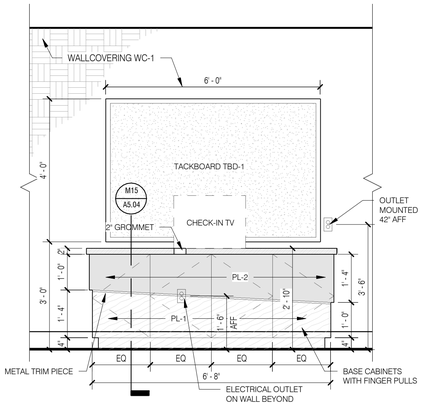


11

CRAFT & MULTI PURPOSE RM 05 - NORTH

1/2" = 1'-0"



12

CHECK-IN DESK

1/2" = 1'-0"

N

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PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	KD
CHECKED BY:	GN
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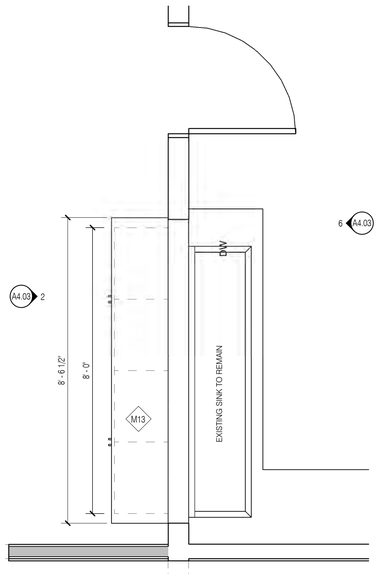
SCALE: 1/2" = 1'-0"

SHEET:
A4.02



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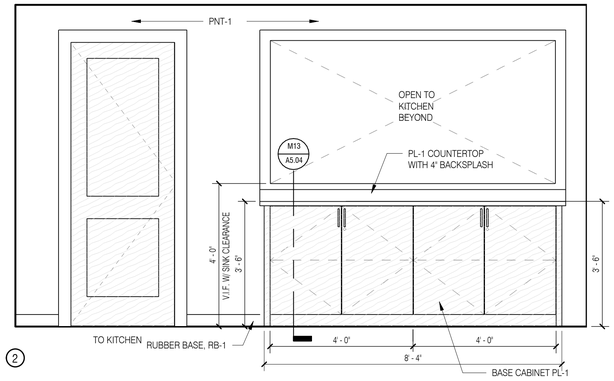
ENLARGED KITCHEN EXPANSION 18
1/2" = 1'-0"



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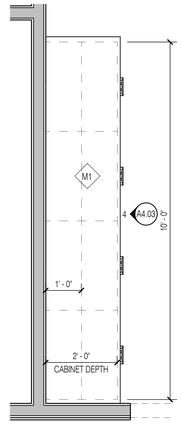
KITCHEN EXPANSION 18 - EAST
1/2" = 1'-0"



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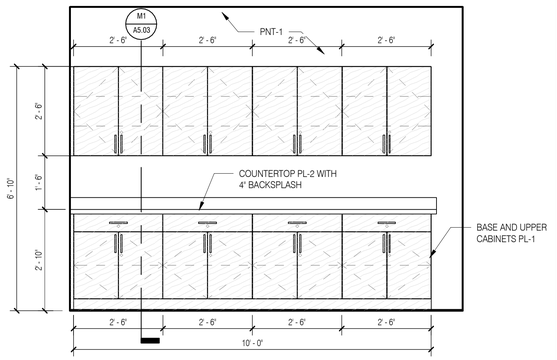
ENLARGED KITCHEN EXPANSION 2
1/2" = 1'-0"



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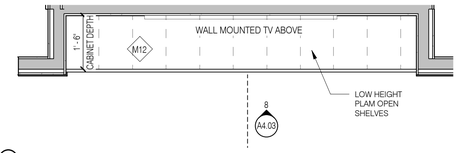
KITCHEN EXPANSION 18 - WEST
1/2" = 1'-0"



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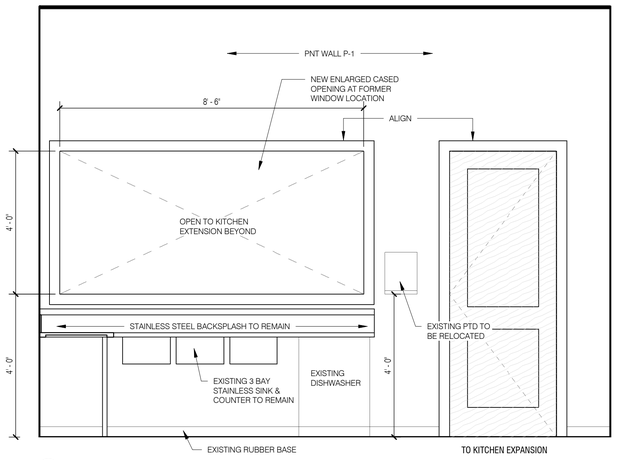
ENLARGED ACTIVITY ROOM 2
1/2" = 1'-0"



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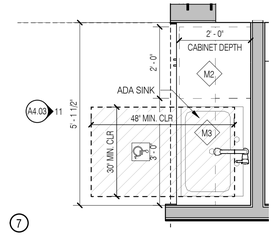
17 KITCHEN - WEST
1/2" = 1'-0"



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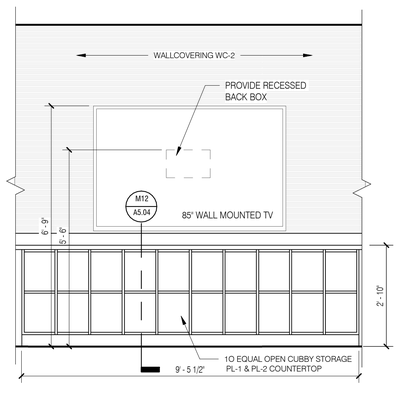
ENLARGED ACTIVITY ROOM 24
1/2" = 1'-0"



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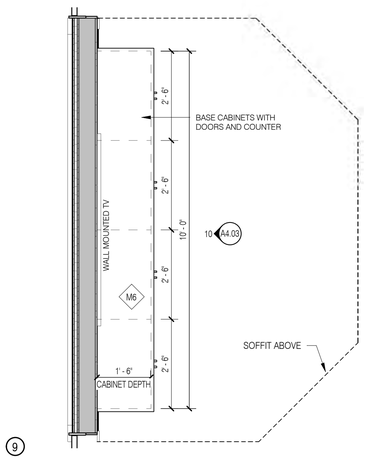
MEDIUM MULTIPURPOSE NORTH
1/2" = 1'-0"



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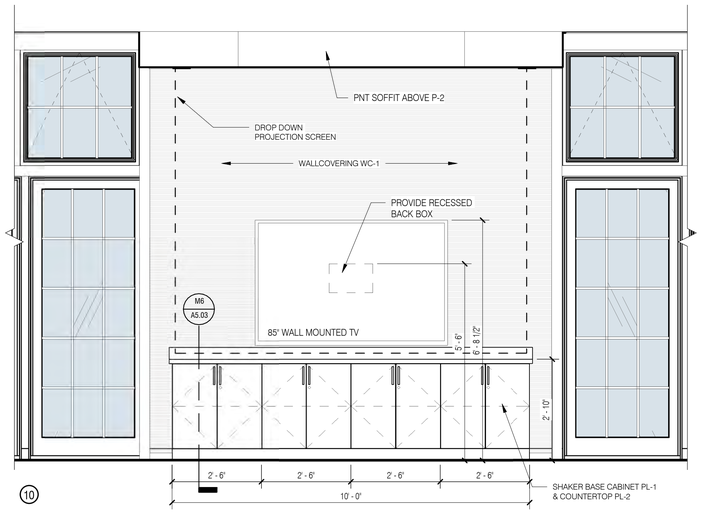
ENLARGED ACTIVITY ROOM 1
1/2" = 1'-0"



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MEDIUM MULTIPURPOSE ROOM WEST
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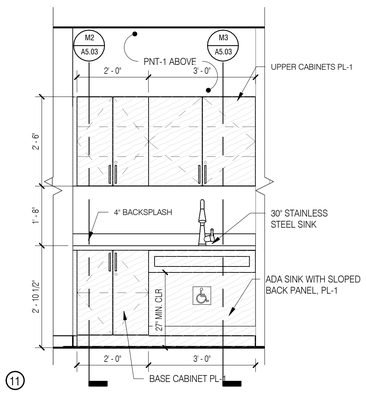

11

ACTIVITY ROOM 24 - EAST
1/2" = 1'-0"

N

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TEC LANDSCAPE DESIGN

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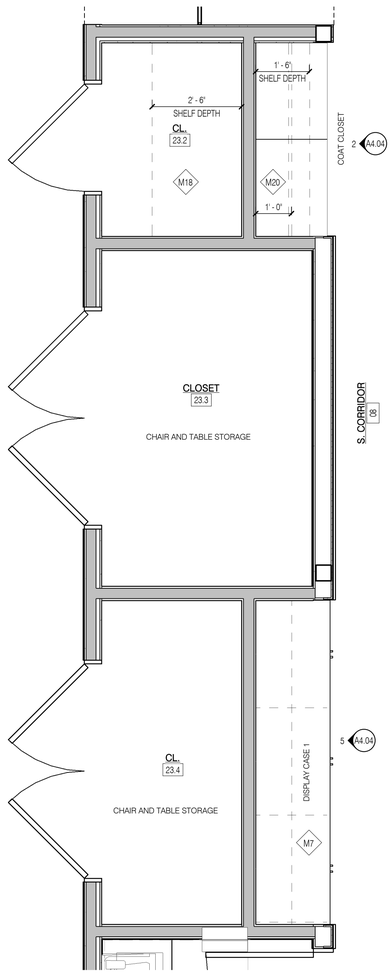
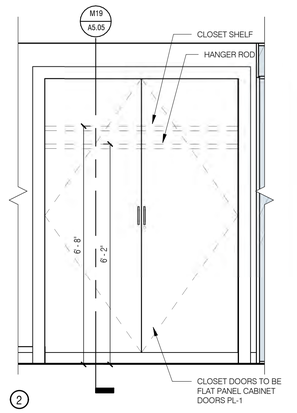


1

ENLARGED PARTIAL CORRIDOR 08

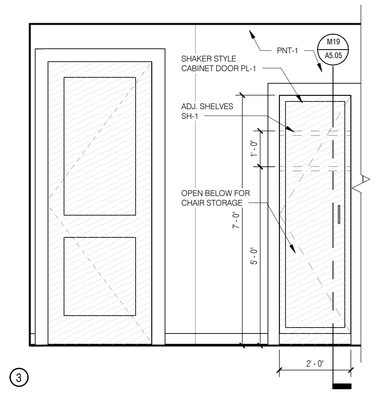
1/2" = 1'-0"



2

COAT CLOSET - WEST

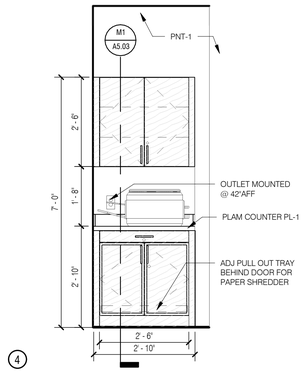
1/2" = 1'-0"



3

W. CORRIDOR 08 - EAST

1/2" = 1'-0"



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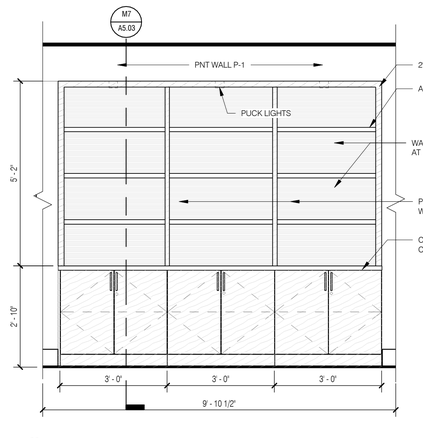
W. CORRIDOR 08 - SOUTH

1/2" = 1'-0"



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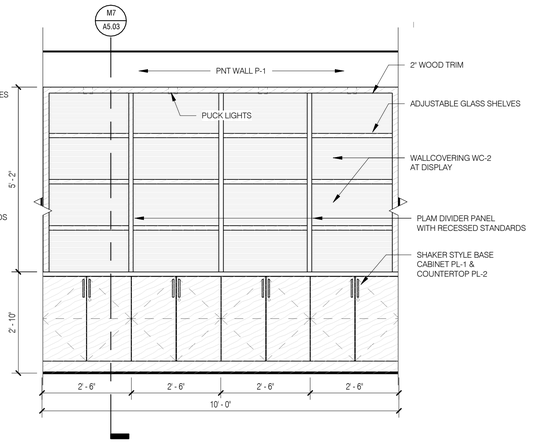
CORRIDOR 08 DISPLAY CASE 1

1/2" = 1'-0"



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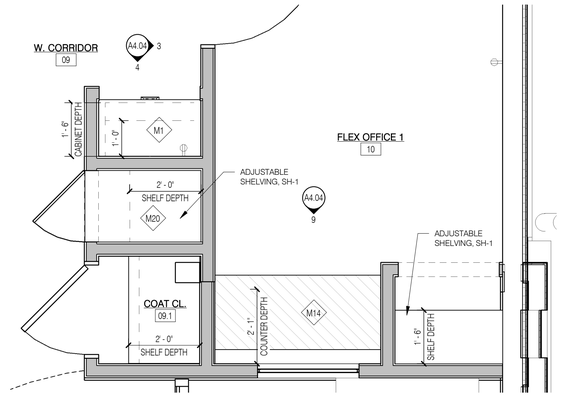
CORRIDOR 09 DISPLAY CASE 2

1/2" = 1'-0"



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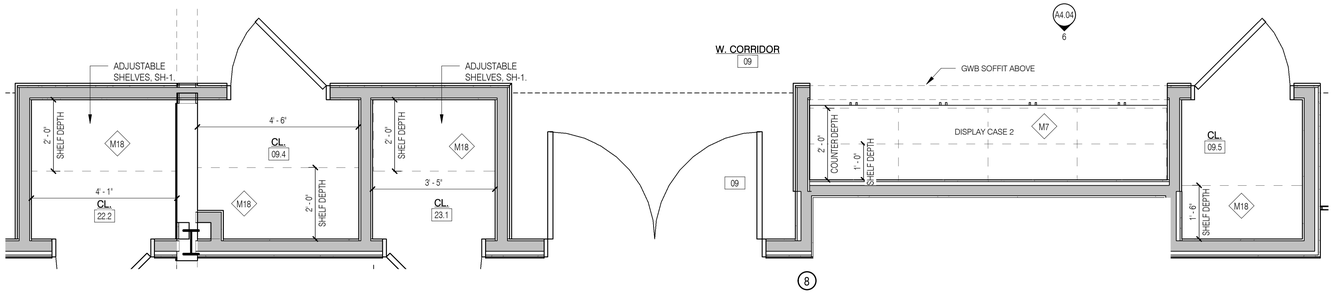
ENLARGED FLEX OFFICE10 /CORRIDOR

1/2" = 1'-0"



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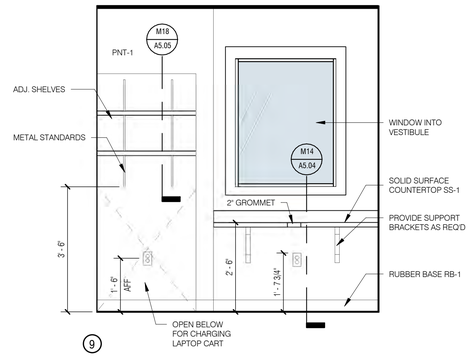
ENLARGED PARTIAL CORRIDOR 09

1/2" = 1'-0"



9

FLEX OFFICE 1 - SOUTH

1/2" = 1'-0"

N

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TEC LANDSCAPE DESIGN

PHASE:

PROGRESS

JOB #:	790
DRAWN BY:	KD
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

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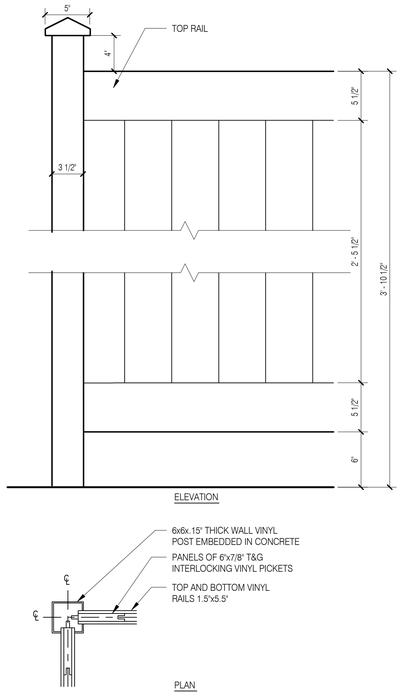
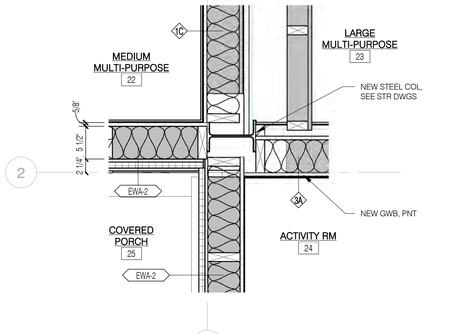
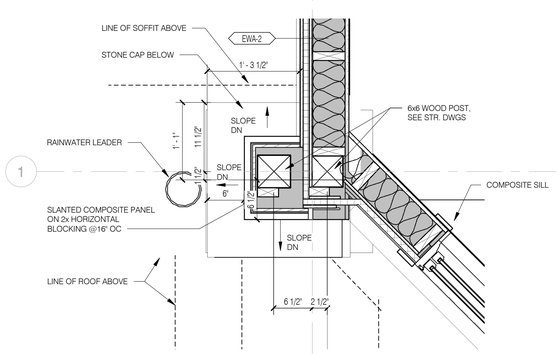


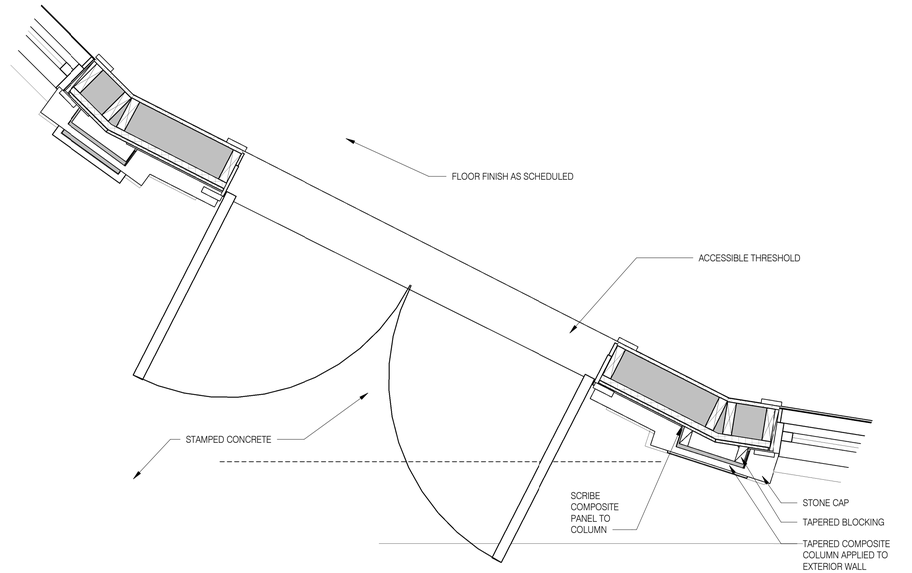
1 FENCE DETAILS
1 1/2" = 1'-0"



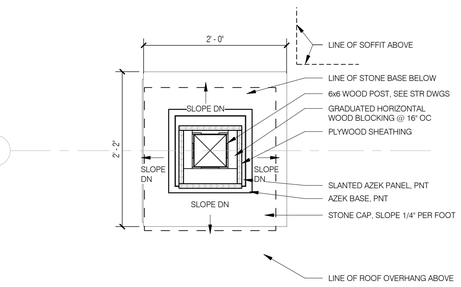
2 PLAN DETAIL @ COL 2A
1" = 1'-0"



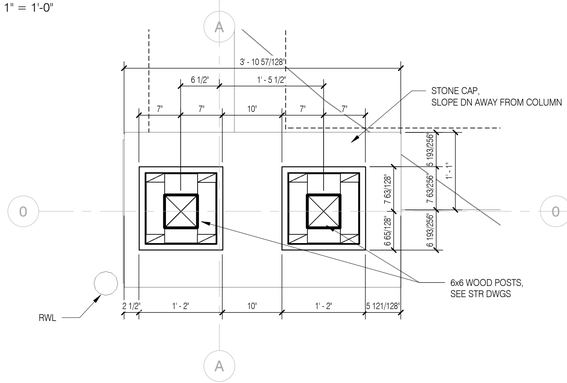
4 PLAN DETAIL @ COL A1
1" = 1'-0"



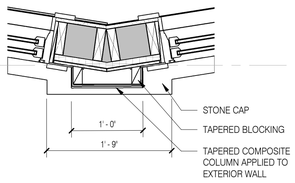
5 DETAIL AT SEGMENTED WALL
1" = 1'-0"



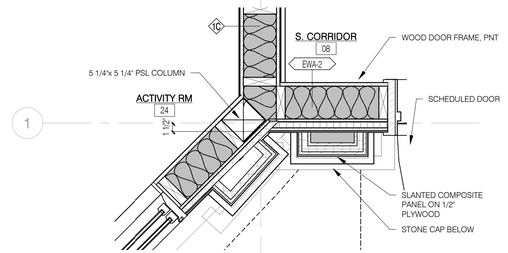
3 PLAN DETAIL @ COL 1
1" = 1'-0"



6 PLAN DETAIL @ COLUMNS A0
1" = 1'-0"



7 PLAN DETAIL @ COL 0
1" = 1'-0"



8 PLAN DETAIL @ COL B1
1" = 1'-0"

N

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TEC LANDSCAPE DESIGN

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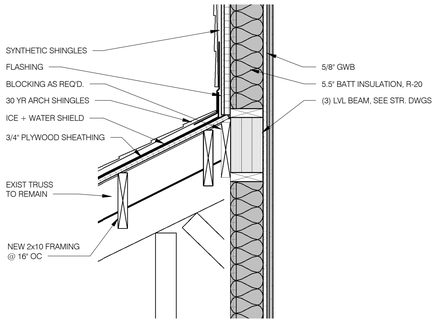
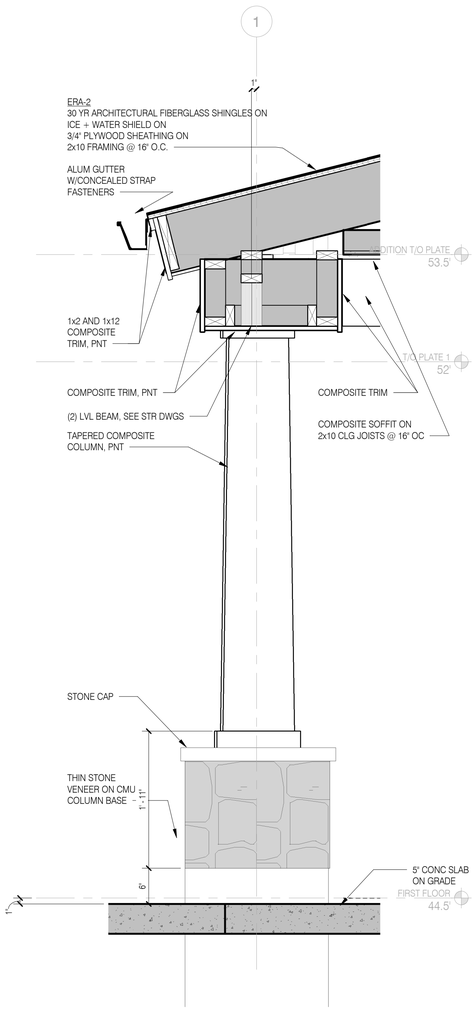


1 SECTION DETAIL 1A
1" = 1'-0"



2 SECTION DETAIL 4A
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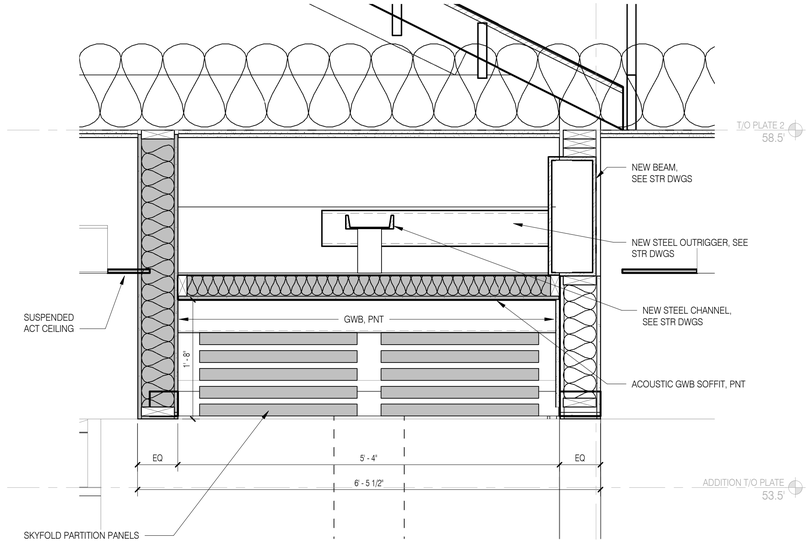
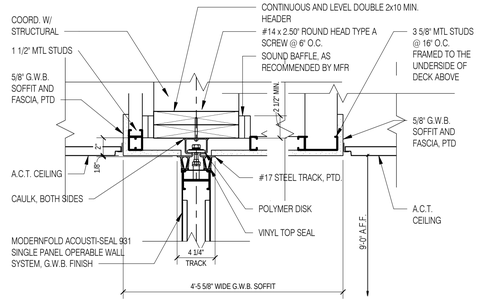


3 SKYFOLD PARTITION POCKET DETAIL
1" = 1'-0"



4 MODERNFOLD ACOUSTI-SEAL - HEAD DETAIL
1 1/2" = 1'-0"

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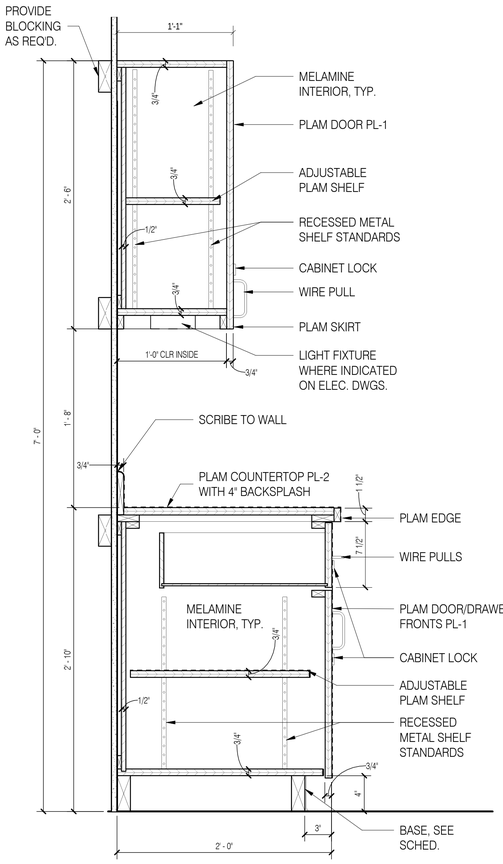
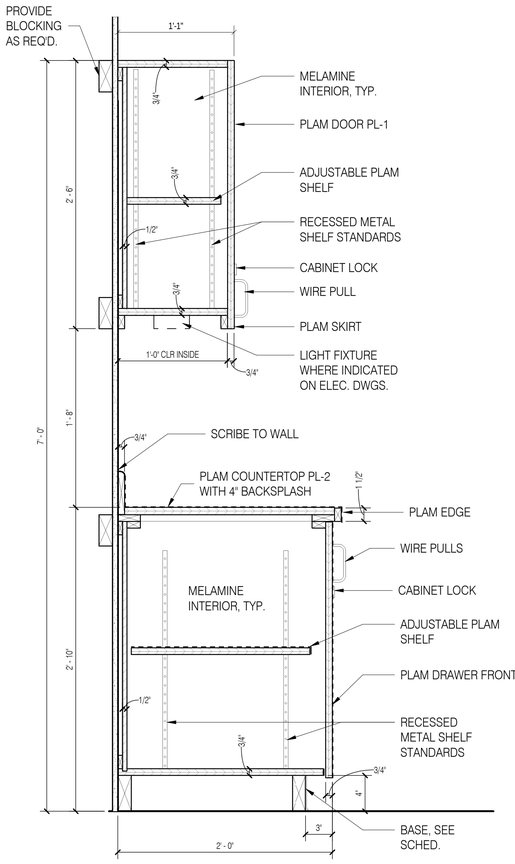


M1 UPPER & BASE CABINET W/DRAWER
1 1/2" = 1'-0"



M2 UPPER & BASE CABINET
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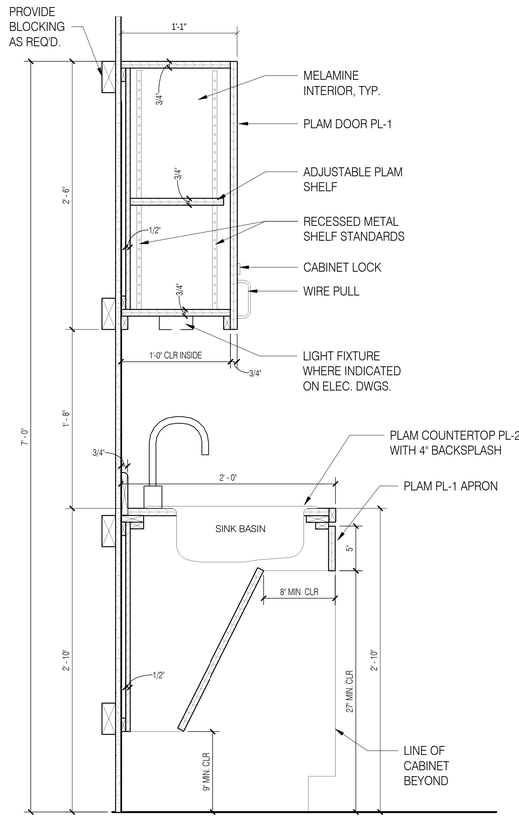
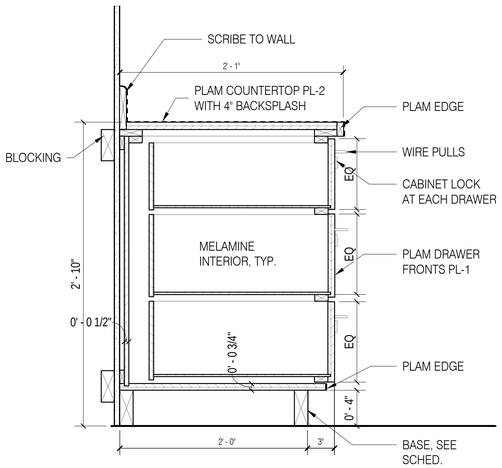
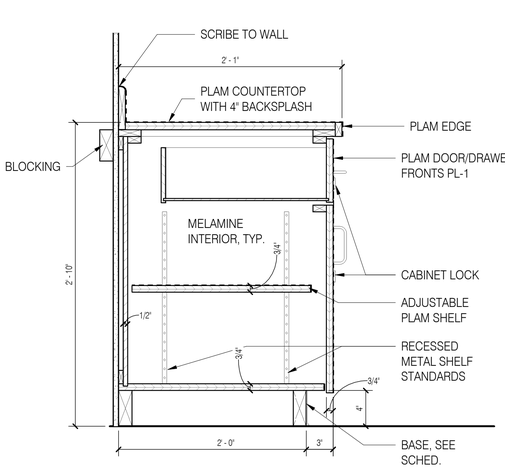


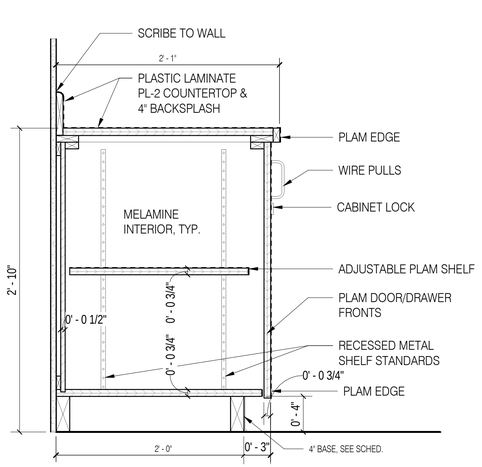
M3 UPPER & ADA SINK BASE CABINET
1 1/2" = 1'-0"



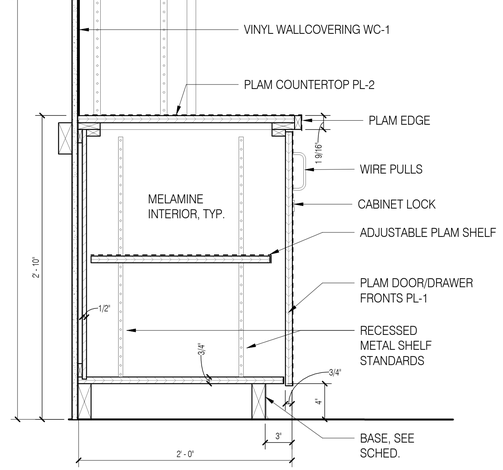
M4 BASE CABINET DRAWERS
1 1/2" = 1'-0"



M5 BASE CABINET W/DRAWER
1 1/2" = 1'-0"



M6 BASE CABINET
1 1/2" = 1'-0"



M7 DISPLAY CASE
1 1/2" = 1'-0"

C:\Users\janus\Documents\RVT LOCAL\790_Lymes' Senior Center_RVT22_Central_POA_JANUS.rvt

LYMES' SENIOR CENTER RENOVATION

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TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	Author
CHECKED BY:	Checker
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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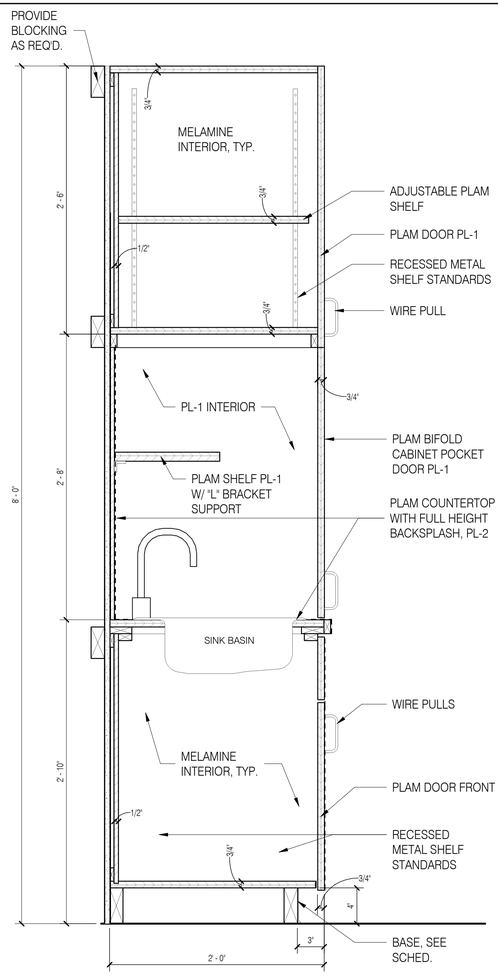
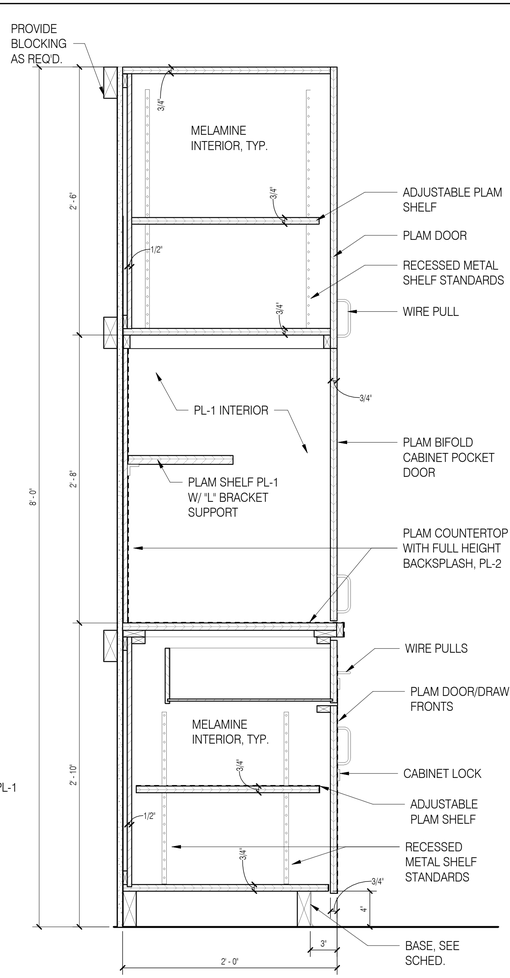
MILLWORK DETAILS I

SCALE: 1 1/2" = 1'-0"

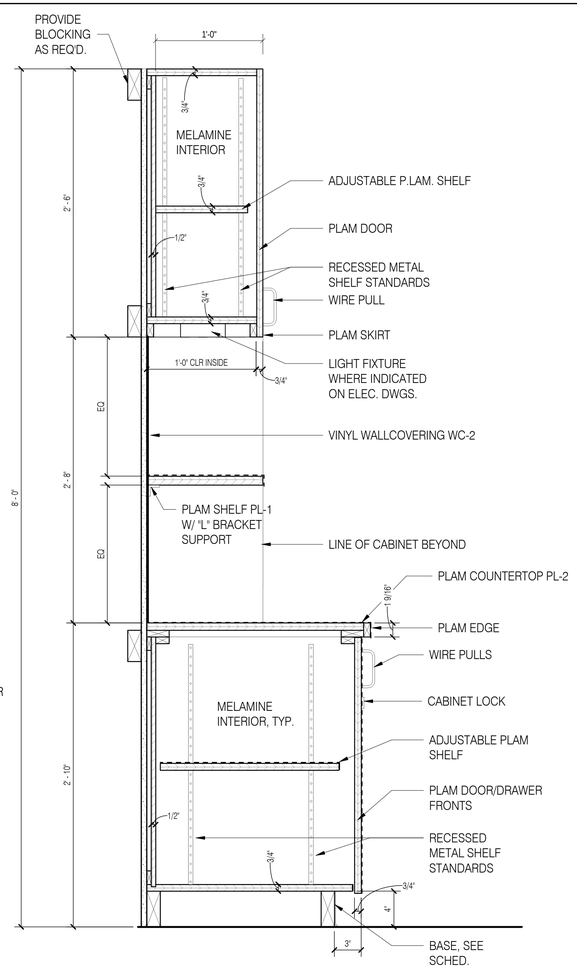
SHEET:
A5.03



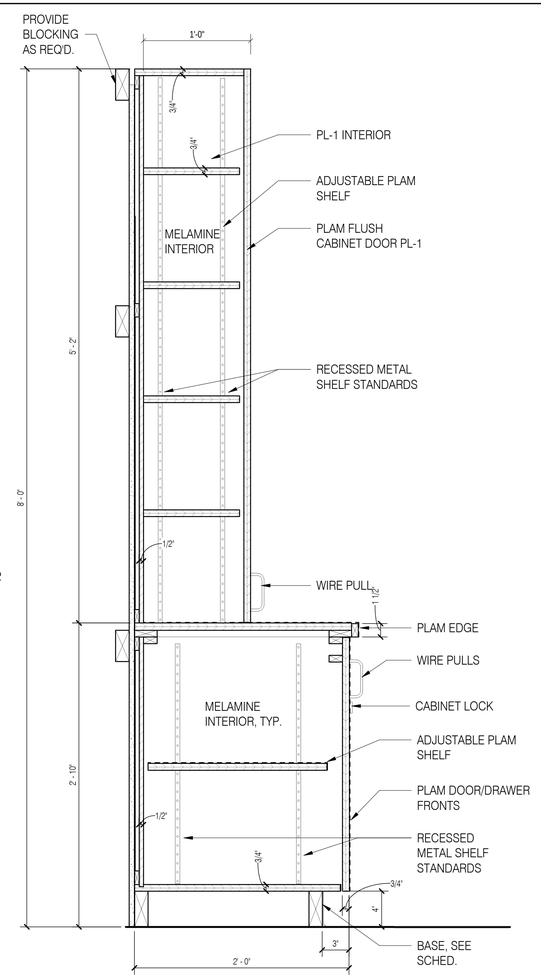
M8 GREETER - COFFEE STATION I
1 1/2" = 1'-0"



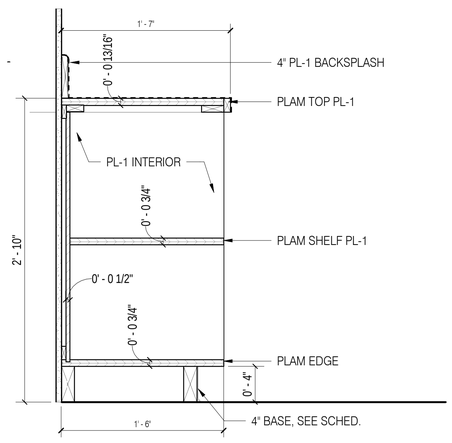
M9 GREETER - COFFEE STATION II
1 1/2" = 1'-0"



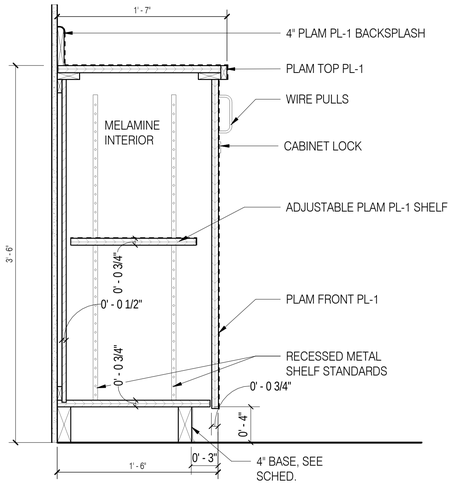
M10 QUIET ROOM- CABINETRY I
1 1/2" = 1'-0"



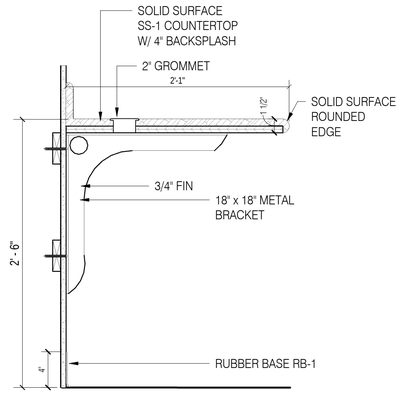
M11 QUIET ROOM- CABINETRY II
1 1/2" = 1'-0"



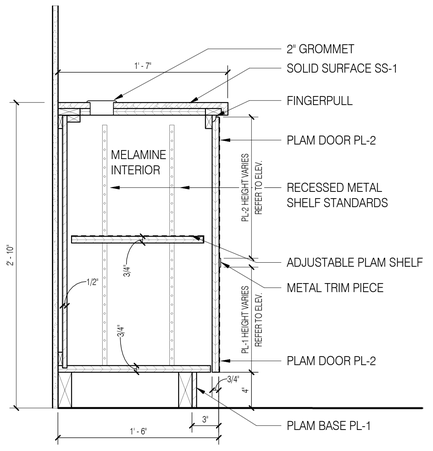
M12 CUBBIES
1 1/2" = 1'-0"



M13 BASE CABINET - KITCHEN
1 1/2" = 1'-0"



M14 COUNTERTOP
1 1/2" = 1'-0"



M15 BASE CABINET - CHECK IN
1 1/2" = 1'-0"

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TEC LANDSCAPE DESIGN

PHASE:
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Revisions

No.	Date	Description

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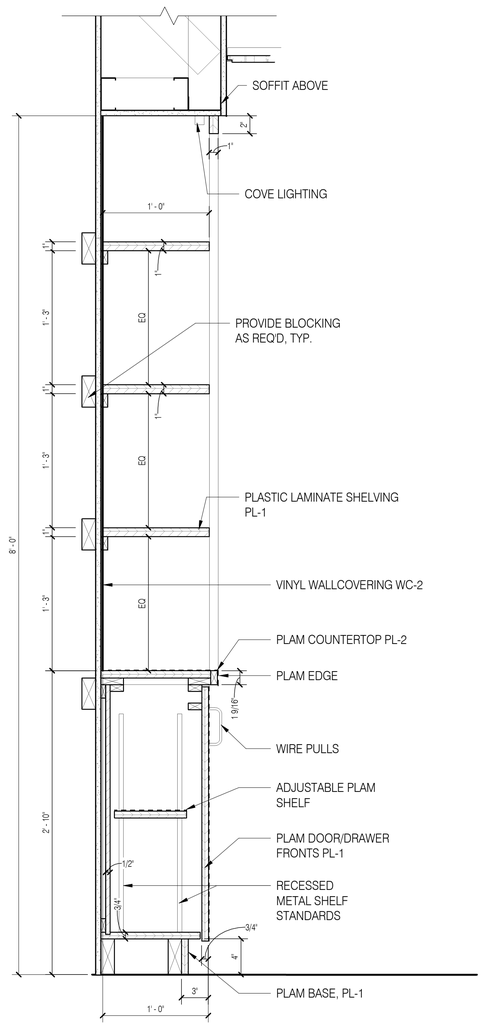
MILLWORK DETAILS II

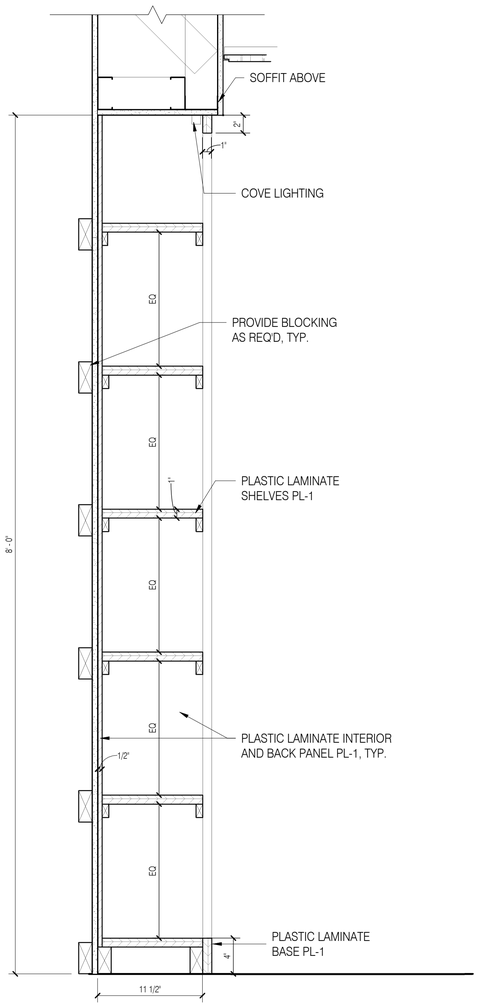
SCALE: 1 1/2" = 1'-0"

SHEET:
A5.04



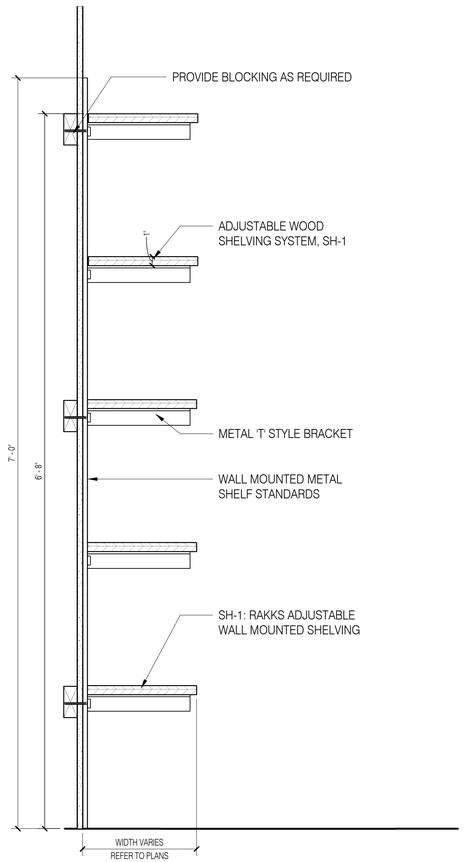
M16 QUIET ROOM- CABINETRY III

1 1/2" = 1'-0"



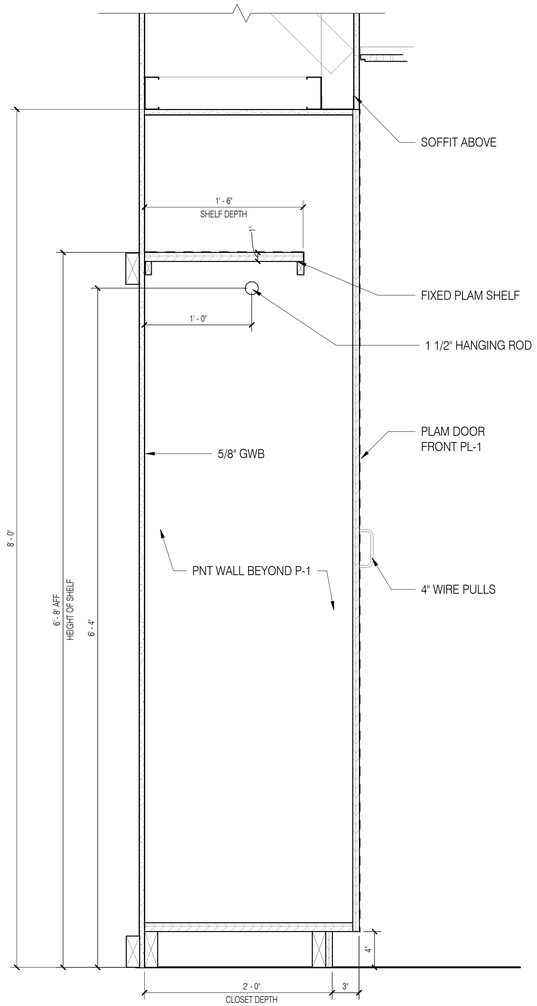
M17 QUIET ROOM- CABINETRY IV

1 1/2" = 1'-0"



M18 CLOSET SHELVING

1 1/2" = 1'-0"



M19 COAT CLOSET

1 1/2" = 1'-0"

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DRAWING NAME:

MILLWORK DETAILS IIII

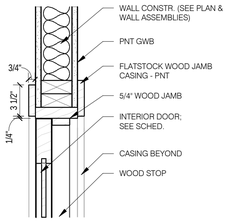
SCALE: 1 1/2" = 1'-0"

N

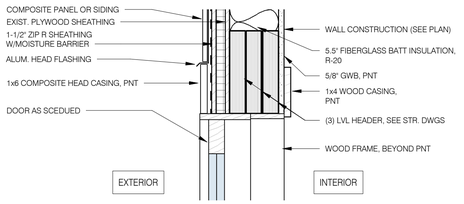
SHEET:

A5.05

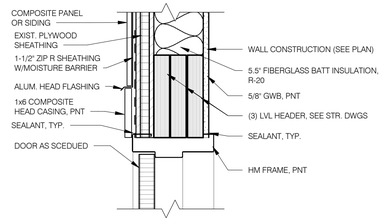
POA Project Number: 790



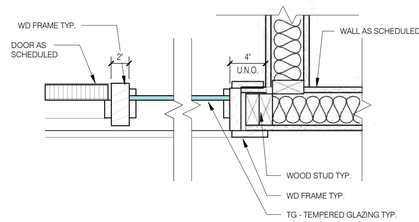
H1 H1 - TYP. INT. DOOR HEAD DETAIL
1 1/2" = 1'-0"



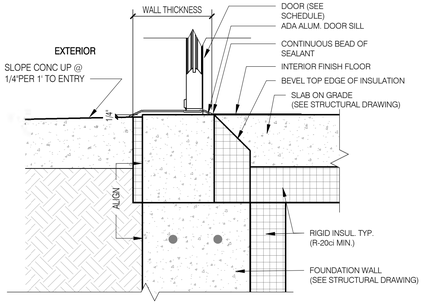
H2 H2 - EXT DOOR HEAD DETAIL
1 1/2" = 1'-0"



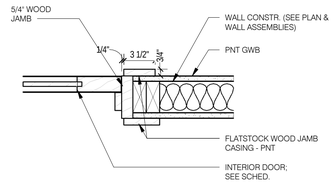
H3 H3- HM DOOR EXT. HEAD DETAIL
1 1/2" = 1'-0"



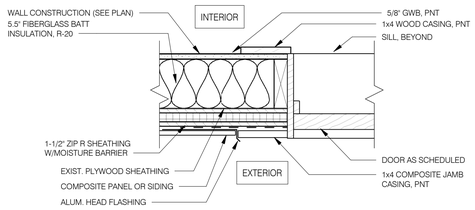
J4 J4 - INT. DOOR JAMB W/SIDELITE DETAIL
1 1/2" = 1'-0"



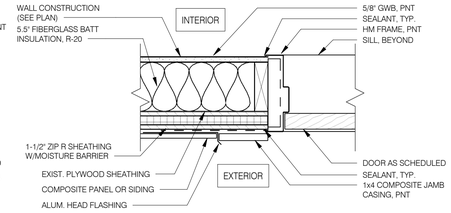
S2 S2 - TYP. EXT. DOOR SILL DETAIL
1 1/2" = 1'-0"



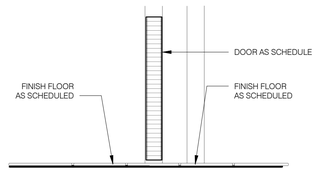
J1 J1 - TYP. INT. DOOR JAMB DETAIL
1 1/2" = 1'-0"



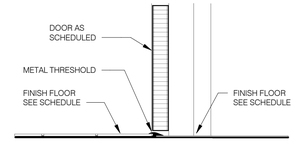
J2 J2 - EXT DOOR JAMP DETAIL
1 1/2" = 1'-0"



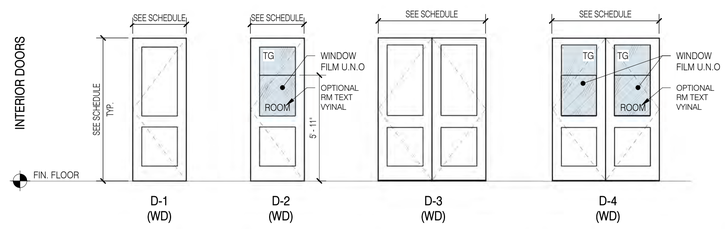
J3 J3 - EXT HM DOOR JAMB DETAIL
1 1/2" = 1'-0"

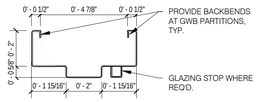


S1 S1 - TYP. DOOR SILL DETAIL
1 1/2" = 1'-0"

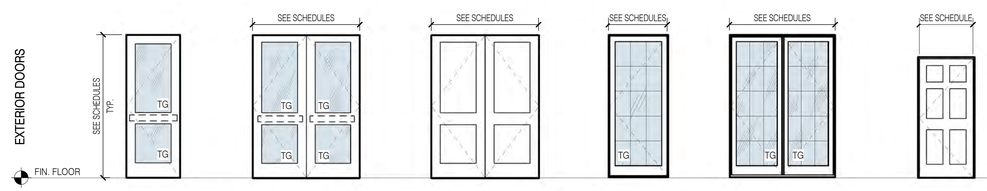


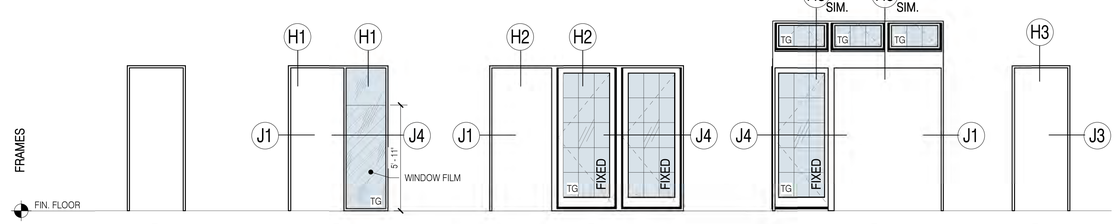
S3 S3 - TYP. INT. DOOR SILL DETAIL
1 1/2" = 1'-0"

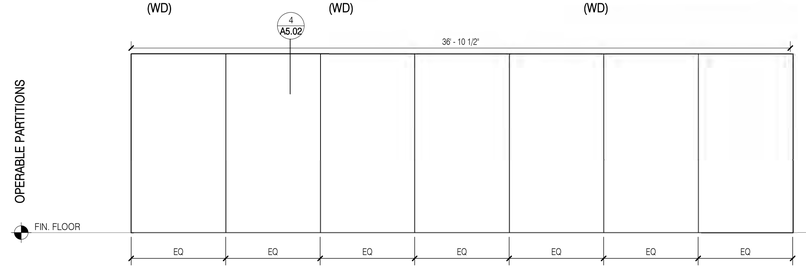


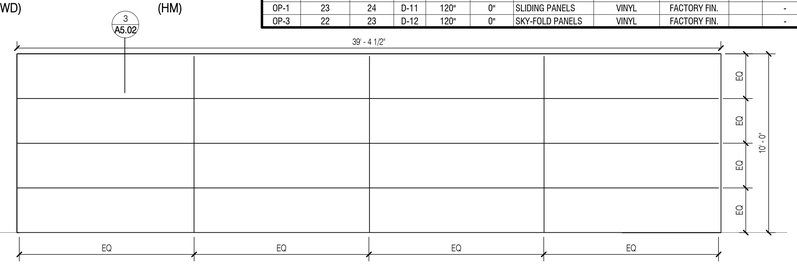


Typ. H.M. Frame Detail
3" = 1'-0"









DOOR SCHEDULE

NO.	ROOM		DOOR							FRAME							
	FROM ROOM	TO ROOM	TYPE	HEIGHT	WIDTH	OPERATIONS	MATERIAL	FINISH	FIRE RATING	TYPE	MATERIAL	FINISH	Head Detail	Jamb Detail	Sill Detail	Hardware Set	Comments
02A	02	01	D-6	96"	72"	DOUBLE - OUT	SCWD/GL	ALUM/WD STAIN		F-4	WOOD	PNT	H4	J2	S2	1.0	ACCESSIBLE, AUTO
02B	03	02	GLASS	96"	72"	DOUBLE - OUT	ALUM/GL	-		SF-2A	ALUM		H10/H11	J9	S3	TBD	EFCO SERIES 403-I STOREFRONT SYSTEM REF. A6.02, ACCESSIBLE, AUTO
05A	08	05	D-2	96"	36"	RH	SCWD/GL	FACTORY FIN.		F-2	WOOD	PNT	H1	J1/J4	S1	14.0	
05B	05.1	05	D-1	96"	36"	RHR	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	10.0	
06A	08	06	D-2	96"	36"	LH	SCWD/GL	FACTORY FIN.		F-2	WOOD	PNT	H1	J1/J4	S1	15.0	
07A	08	07	D-1	96"	36"	RH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	17.0	
08A	08		D-5	96"	40"	RH	SCWD/GL	ALUM/WD STAIN		F-1	WOOD	PNT	H2	J2	S2	4.0	
08B	08	08.1	D-1	96"	36"	LH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	
09A	09.1	09	D-1	96"	30"	LHR	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	
09B	09.3	09	D-1	80"	24"	RH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	EXIST OPENING TO BE MODIFIED
09C	09.4	09	D-1	96"	32"	RH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	
09D	09.5	09	D-1	96"	32"	LH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	
09E			D-5	96"	40"	LH	SCWD/GL	ALUM/WD STAIN		F-1	WOOD	PNT	H2	J2	S2	4.0	
10A	09	10	D-2	96"	36"	LH	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	13.0	
11A	11	09	D-2	96"	36"	LH	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	13.0	
12A	09	12	D-2	96"	36"	RH	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	13.0	
13A	09	13	D-2	96"	36"	RH	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	13.0	
14A	09.2	14	D-1	96"	36"	RH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S4	18.0	
15A	09.2	15	D-1	96"	36"	LH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S4	18.0	
16A	17.1	16	EXIST.	80"	36"	EXIST.	EXIST.	PNT		EXIST.	EXIST.	PNT	-	-	-	EXIST.	
16B	16		D-10	80"	36"	LH	METAL	PNT	60 MIN	F-5	ALUM	PNT	H3	J3	S2	2.0	EXIST OPENING TO BE MODIFIED
17A	17	18	D-2	96"	36"	RHR	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	16.0	
17B	09	17	D-2	96"	36"	RHR	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	16.0	EXIST OPENING TO BE MODIFIED
17C	17.1	17	D-1	80"	36"	LH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	16.0	EXIST OPENING TO BE MODIFIED
18A		18	D-5	96"	36"	LH	SCWD/GL	ALUM/WD STAIN		F-1	WOOD	PNT	H2	J2/J4(SIM)	S2	4.0	
19A	19		D-7	96"	72"	DOUBLE - OUT	METAL	PNT	60 MIN	F-5	ALUM	PNT	H3	J3	S2	6.0	INSUL. METAL DOOR
20A	18	20	D-1	96"	36"	RH	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	
21A	21		D-3	96"	72"	DOUBLE - OUT	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	9.0	
22A	22.1	22	D-3	96"	72"	DOUBLE - OUT	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	8.0	
22B	22		D-4	96"	72"	DOUBLE - OUT	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	7.0	MAG OPEN
22C	22.2	22	D-1	96"	32"	RHR	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	
22D	22	25	D-9	95 1/2"	71"	DOUBLE - OUT	SCWD/GL	ALUM/WD STAIN		F-1	WOOD	PNT	H2	J2	S2	3.0	
22E	22		D-8	95 1/2"	40"	RHR	SCWD/GL	ALUM/WD STAIN		F-3	WOOD	PNT	H2 SIM.	J2/J4	S2	5.0	
22F		22	D-8	95 1/2"	40"	LHR	SCWD/GL	ALUM/WD STAIN		F-3	WOOD	PNT	H2 SIM.	J2/J4	S2	5.0	
23A	23.1	23	D-1	96"	32"	LHR	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	11.0	
23B	09	23	D-4	96"	72"	DOUBLE - OUT	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	7.0	MAG OPEN
23C	23.2	23	D-1	96"	36"	LHR	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	12.0	
23D	23.3	23	D-3	96"	72"	DOUBLE - OUT	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	8.0	
23E	23.4	23	D-3	96"	72"	DOUBLE - OUT	SCWD	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	8.0	
23F	09	23	GLASS	96"	72"	DOUBLE - OUT	ALUM/GL	FILM		SF-1A	ALUM		H10	J13	S1	TBD	AVANTI SOLARE STOREFRONT SYSTEM REF. A6.02
23G	08	23	GLASS	96"	72"	DOUBLE - OUT	ALUM/GL	FILM		SF-1B	ALUM		H10	J13	S1	TBD	AVANTI SOLARE STOREFRONT SYSTEM REF. A6.02
24A	24	08	D-2	96"	36"	DOUBLE - IN	SCWD/GL	FACTORY FIN.		F-1	WOOD	PNT	H1	J1	S1	15.0	
24B	24		D-9	86"	71"	DOUBLE - OUT	ALUM/GL	ALUM/WD STAIN		F-1	WOOD	PNT	H2	J2	S2	5.0	
24C	24		D-9	86"	71"	DOUBLE - OUT	ALUM/GL	ALUM/WD STAIN		F-1	WOOD	PNT	H2	J2	S2	5.0	
24D	24	25	D-9	86"	71"	DOUBLE - OUT	ALUM/GL	ALUM/WD STAIN		F-1	WOOD	PNT	H2	J2	S2	5.0	
OP-1	23	24	D-11	120"	0"	SLIDING PANELS	VINYL	FACTORY FIN.		-	N/A	-				SEE. MANUF.	OPERABLE PARTITION - MODERN FOLD
OP-3	22	23	D-12	120"	0"	SKY-FOLD PANELS	VINYL	FACTORY FIN.		-	N/A	-				SEE. MANUF.	OPERABLE PARTITION - SKY FOLD

DOOR SCHEDULE NOTES:

1. ALL DOORS TO BE VT INDUSTRIES OR EQUAL. DOOR MATERIAL TO BE SOLID CORE WOOD WITH A WOOD VENEER STAIN FINISH. COLOR TO BE SELECTED BY ARCHITECT. ALL EXISTING DOORS TO REMAIN AND PAINT U.N.O.
2. ALL HARDWARE TO BE COMMERCIAL GRADE 1 CORBIN RUSWIN, COLLECTION: TBD, STYLE: TBD, FINISH: TBD - REF. HARDWARE SET SCHEDULE IN SPECIFICATIONS
3. ALL HARDWARE TO BE ADA COMPLIMENT.
4. PROVIDED FLOOR MOUNTED DOOR STOPS AT EVERY DOOR WITHIN SCOPE U.N.O.
5. SEE MANF; DETAILS AND NOTES FOR OPERABLE PARTITIONS

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TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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CM REFERENCE

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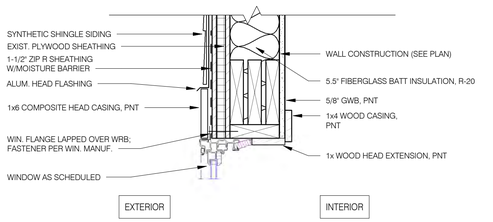
DRAWING NAME: DOOR SCHEDULES, DETAILS, & TYPES

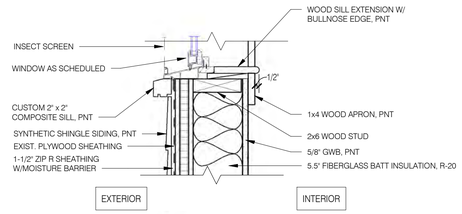
SCALE: As indicated

SHEET: A6.01

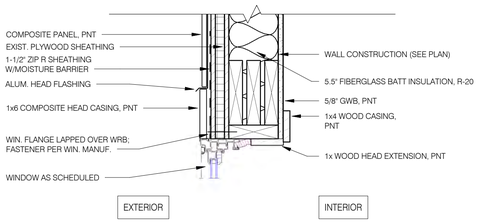
C:\Users\janus\Documents\RVT LOCAL\790_Lymes' Senior Center_RVT22_Central_POA_JANUS.rvt



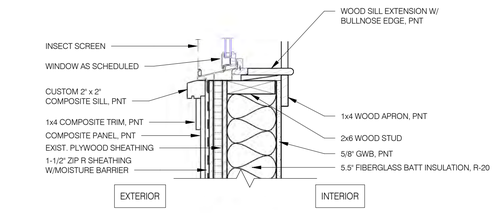
H4 H4 DH WINDOW HEAD @ SHINGLE
1 1/2" = 1'-0"



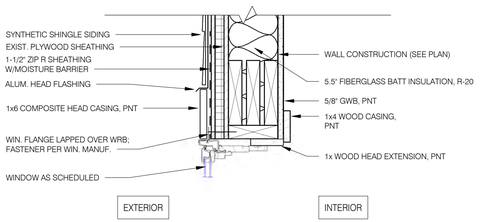
H5 H5 DH WINDOW HEAD @ PANEL
1 1/2" = 1'-0"



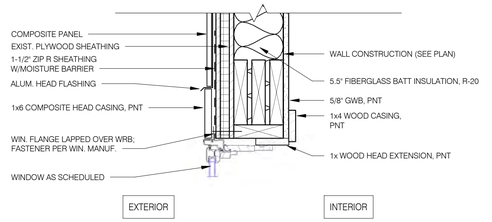
H6 H6 FIXED WINDOW HEAD @ SHINGLE
1 1/2" = 1'-0"



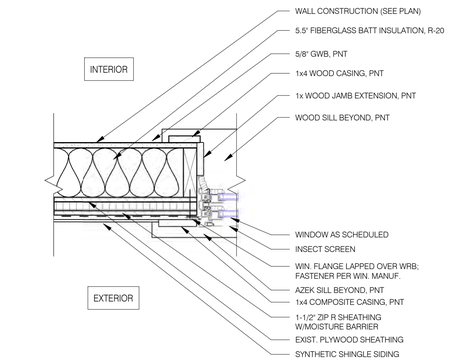
H7 H7 FIXED WINDOW HEAD @ PANEL
1 1/2" = 1'-0"



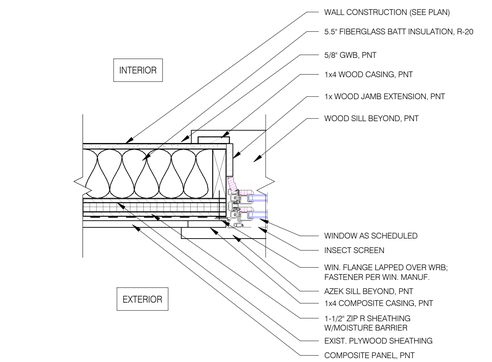
H8 H7 FIXED WINDOW HEAD @ PANEL
1 1/2" = 1'-0"



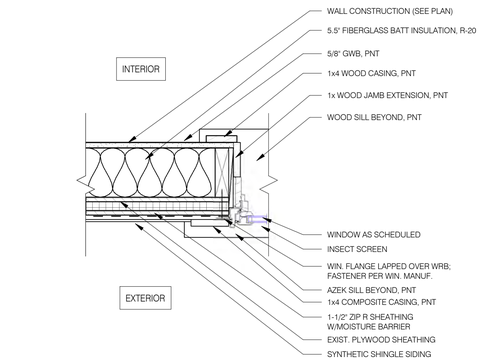
S5 S5 DH WINDOW SILL @ SHINGLE
1 1/2" = 1'-0"



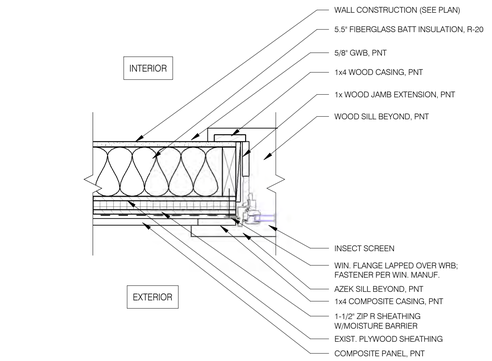
S6 S6 DH WINDOW SILL @ PANEL
1 1/2" = 1'-0"



S7 S7 FIXED WINDOW SILL @ SHINGLE
1 1/2" = 1'-0"



S8 S8 DH SILL @ STONE
1 1/2" = 1'-0"



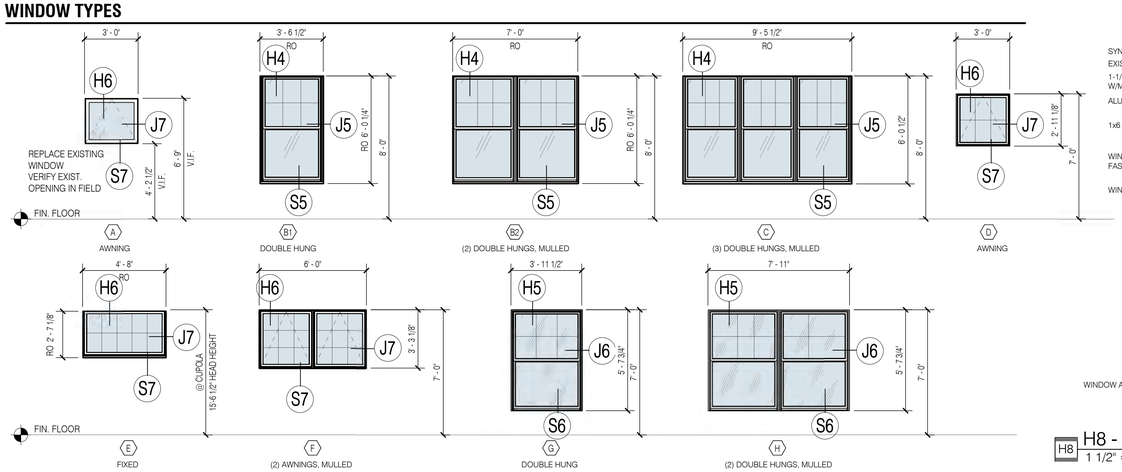
J5 J5 DH WINDOW JAMB @ SHINGLE
1 1/2" = 1'-0"

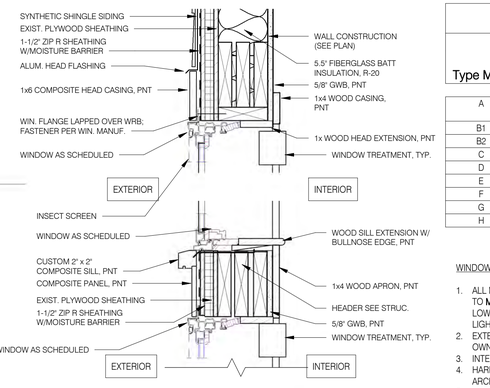
J6 J2 DH WINDOW JAMB @ PANEL
1 1/2" = 1'-0"

J7 J3 FIXED WINDOW JAMB @ SHINGLE
1 1/2" = 1'-0"

J8 J4 FIXED WINDOW JAMB @ PANEL
1 1/2" = 1'-0"

WINDOW TYPES





H8 H8 - EXT WINDOW W/TRANSOM HEAD
1 1/2" = 1'-0"

WINDOW SCHEDULE

Type Mark	Window Type	Rough Openings Rough Width	Rough Openings Rough Height	Manufacturer	Model	Hardware Finish	Comments
A		3' - 0 1/2"	2' - 7"				REPLACE EXIST WINDOW - V.I.F.
B1	Elevate Double Hung	3' - 6 1/2"	6' - 0 1/4"	Marvin Windows and Doors	ELDH4272		
B2	Elevate Double Hung	7' - 2"	6' - 0 1/2"	Marvin Windows and Doors	ELDH3060		
C	Elevate Double Hung	9' - 5 1/2"	6' - 0 1/4"	Marvin Windows and Doors	ELDH3872		
D	Elevate Awning	3' - 1"	2' - 11 5/8"	Marvin Windows and Doors	ELAWN3735		
E	Elevate Casement Picture	4' - 9"	2' - 7 5/8"	Marvin Windows and Doors	ELCAP5731		
F	Elevate Awning	<varies>	3' - 3 5/8"	Marvin Windows and Doors	<varies>		<varies>
G	Elevate Double Hung	8' - 0"	5' - 8 1/4"	Marvin Windows and Doors	ELDH4868		
H	Elevate Double Hung	4' - 0 1/2"	5' - 8 1/4"	Marvin Windows and Doors	ELDH4868		

WINDOW TYPE NOTES:

1. ALL MODEL NUMBERS REFER TO **MARVIN ELEVATE COLLECTION** LOW-E4 GLASS, SIMULATED DIVIDED LIGHT W/ SPACER BAR, INSECT SCREEN.
2. EXTERIOR CLAD COLOR TO BE: BY OWNER AND ARCHITECT
3. INTERIOR FINISH: TO BE PRE-PRIMED.
4. HARDWARE FINISH TO BE: BY OWNER AND ARCHITECT
5. REFER TO EXTERIOR ELEVATION DRAWING FOR OPERATION DIRECTION.
6. REFER TO EXTERIOR ELEVATION FOR WINDOWS WITH TEMPERED GLASS.
7. ARCHITECT AND OWNER TO REVIEW SHOP DRAWINGS FOR APPROVAL BEFORE ORDERING.
8. REFER TO EXTERIOR ELEVATION FOR EGRESS WINDOWS.
9. CONTRACTOR TO VERIFY ALL ROUGH OPENINGS PRIOR TO PURCHASE AND INSTALL.
10. EXTENSION JAMBS TO BE DETERMINED IN THE FIELD.
11. VERIFY ALL DOOR HANDING WITH OWNER AND ARCHITECT.
12. OWNER TO SELECT ALL WINDOW TREATMENTS, G.C. TO COORDINATE INSULATION.
13. SEE SHEET A6.03 FOR WINDOW HEAD/JAMB/SILL DETAILS.

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TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	Author
CHECKED BY:	Checker
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME: WINDOW TYPES, SCHEDULE AND DETAILS

SCALE: As indicated

SHEET: A6.02

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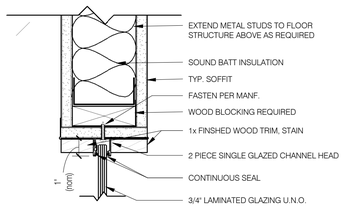
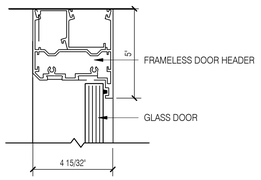
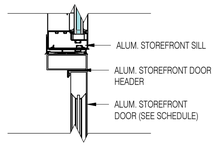


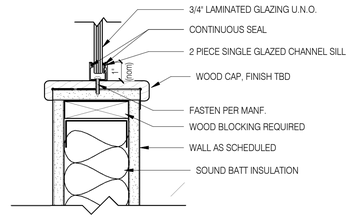
H9 H9 - TYP. STOREFRONT HEAD
3" = 1'-0"



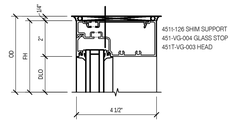
H10 H10 - STOREFRONT DOOR HEAD
3" = 1'-0"



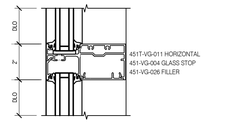
H11 H11 - ALUMN DOOR HEADER
1 1/2" = 1'-0"



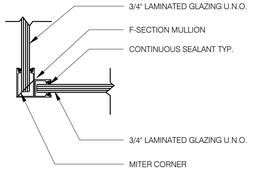
S10 S10 - STOREFRONT SILL AT WALL
3" = 1'-0"



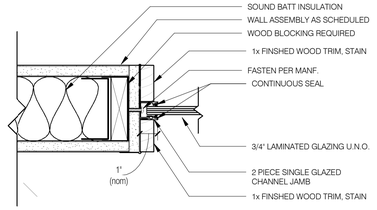
H12 H12 - ALUM. STOREFRONT HEADER
3" = 1'-0"



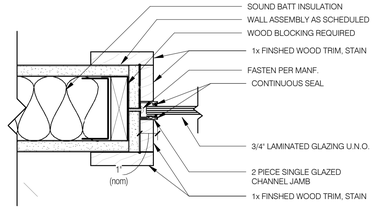
M1 M1 - HORIZ. MULL. DETAIL
3" = 1'-0"



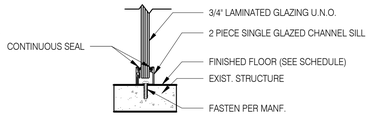
J9 J9 - STOREFRONT CORNER
3" = 1'-0"



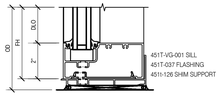
J10 J10 - TYP. STOREFRONT JAMB
3" = 1'-0"



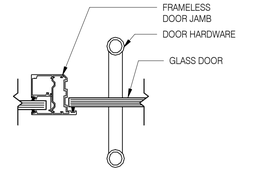
J11 J11 - STOREFRONT JAMB w/ CASING
3" = 1'-0"



S9 S9 - TYP. STOREFRONT SILL
3" = 1'-0"



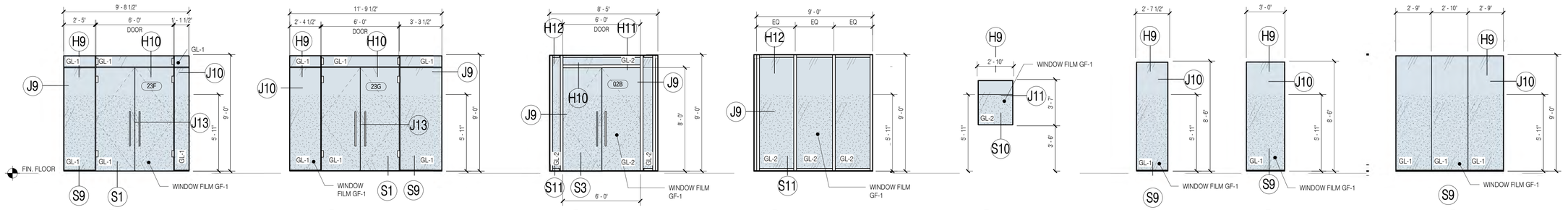
S11 S11 - ALUM. STOREFRONT SILL
3" = 1'-0"



J13 J13 - GLASS DOOR JAMB
3" = 1'-0"

STOREFRONT TYPES

ELEVATION



1A STOREFRONT

1B STOREFRONT

2A STOREFRONT

2B STOREFRONT

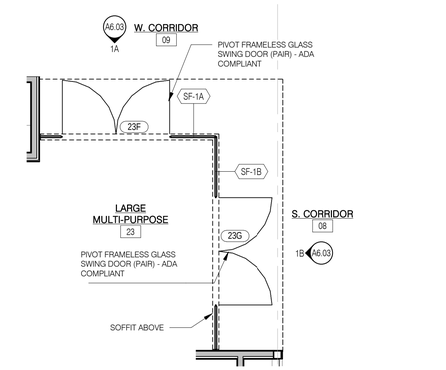
3 STOREFRONT

4A STOREFRONT

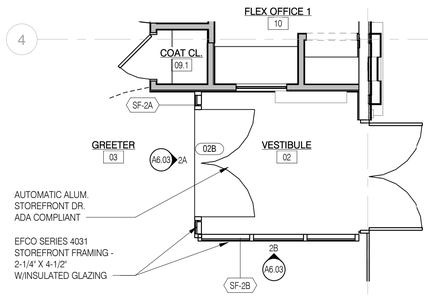
4B STOREFRONT

5 STOREFRONT

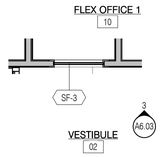
PLAN



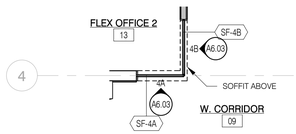
SF1 STOREFRONT SF-1
1/4" = 1'-0"



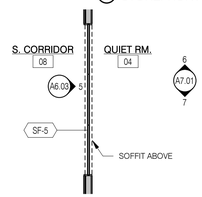
SF2 STOREFRONT SF-2
1/4" = 1'-0"



SF3 STOREFRONT SF-3
1/4" = 1'-0"



SF4 STOREFRONT SF-4
1/4" = 1'-0"



SF5 STOREFRONT SF-5
1/4" = 1'-0"

GLAZING LEGEND

GL-1	3/4" TEMPERED GLASS - STC 1
GL-2	3/4" INSULATED TEMPERED GLASS
TG	TEMPERED GLASS - STC 1
	WINDOW FILM GF-1 SEE FINISH SCHEDULE

STOREFRONT NOTES:

1. STOREFRONT SYSTEM TO BE AVANTI SYSTEMS - SOLARE - SQUARE SINGLE GLAZED FRAMELESS PARTITION SYSTEM OR EQUAL
   1B. GC TO COORDINATE WITH AVANTI SYSTEMS DETAILS AND SYSTEM REQUIREMENTS.
2. ALUM. STOREFRONT SYSTEM TO BE ECFO SERIES 403-I SYSTEM OR EQUAL
   2B. GC TO COORDINATE WITH ECFO SYSTEMS DETAILS AND SYSTEM REQUIREMENTS.
3. FRAME FINISH: TO BE TBD
4. HARDWARE FINISH TO BE: BY OWNER AND ARCHITECT
5. ARCHITECT AND OWNER TO REVIEW SHOP DRAWINGS FOR APPROVAL BEFORE ORDERING.
6. CONTRACTOR TO VERIFY ALL ROUGH OPENINGS PRIOR TO PURCHASE AND INSTALL.
7. OWNER TO SELECT ALL WINDOW TREATMENTS, G.C. TO COORDINATE INSTALLATION
8. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF WINDOW FILM TREATMENT

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Telephone: (203) 245-0732

TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	KJ
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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CM REFERENCE

NOT FOR CONSTRUCTION

DRAWING NAME: STOREFRONT ELEVATIONS & DETAILS

SCALE: As indicated

SHEET: A6.03

C:\Users\janus\Documents\RVT LOCAL\790_Lymes' Senior Center_RVT22_Central_POA_JANUS.rvt

FINISH LEGEND - GRID BASED

	KEY NAME/...	TYPE	MANUFACTURER	MODEL #/ NAME	COLOR/FINISH	SIZE	NOTES
FLOOR							
	CPT-1	CARPET TILE	MANNINGTON	CANOPY II	SPRUCE	24" x 24"	INSTALLATION METHOD: ASHLAR
	LVT-1	LUXURY VINYL TILE	MANNINGTON	SPACIA- WOOD	LANCASTER OAK	7.25" x 48"	INSTALLATION METHOD: ASHLAR
	LVT-2	LUXURY VINYL TILE	MANNINGTON	ACTIVE LINES- GRID	ZING	18" x 18"	INSTALLATION METHOD: ASHLAR
	PT-1	PORCELAIN TILE	CREATIVE OFFICE MATERIALS	LAVA	NUT (MATTE/RECTIFIED)	12" x 24"	INSTALLATION METHOD: ASHLAR
	WOC-1	WALK OFF CARPET	PATCRAFT	BEYOND THE DOOR- PASEO	OPAL 00123	24" x 24"	INSTALLATION METHOD: ASHLAR
BASE							
	RB-1	RUBBER BASE	JOHNSONITE	4" RUBBER BASE	---	---	
	PTB-1	PORCELAIN TILE BASE	CREATIVE OFFICE MATERIALS	LAVA	---	---	
	WD-1	6" WOOD BASE	---	---	PNT-6	---	
WALLS							
	CWT-1	CERAMIC WALL TILE	CREATIVE OFFICE MATERIALS	INFUSION	CREAM (MATTE)	3.5" X 14.5"	INSTALLATION METHOD: VERTICAL STACKING
	CWT-2	CERAMIC WALL TILE	CREATIVE OFFICE MATERIALS	INFUSION	MARINE (MATTE)	3.5" X 14.5"	INSTALLATION METHOD: VERTICAL STACKING
	CWT-3	CERAMIC WALL TILE	CREATIVE OFFICE MATERIALS	INFUSION	FERN (MATTE)	3.5" X 14.5"	INSTALLATION METHOD: VERTICAL STACKING
	ST-1	STONE TILE @ FIREPLACE	BEDROSIAN	STAGGERED LEDGER TILE -SLTSAGGRNLED	SAGE GREEN	6 X 24	
	PNT-1	PAINT	SHERWIN WILLIAMS	---	SW7102 WHITE FLOUR/ EGGSHELL	---	FIELD PAINT
	PNT-2	PAINT	SHERWIN WILLIAMS	---	SW7029 AGREEABLE GRAY/ EGGSHELL	---	SOFFITS
	PNT-3	PAINT	SHERWIN WILLIAMS	---	SW9524 CROOKED RIVER/ EGGSHELL	---	ACCENT
	PNT-4	PAINT	SHERWIN WILLIAMS	---	SW6171 CHATROOM/ EGGSHELL	---	ACCENT
	PNT-5	PAINT	BENJAMIN MOORE	---	1649 POLARIS BLUE/ EGGSHELL	---	ACCENT
	PNT-6	PAINT	SHERWIN WILLIAMS	---	SW7102 WHITE FLOUR / SEMI GLOSS	---	DOOR & WINDOW FRAMES
	TBD-1	TACKBOARD	CLARIDGE	800 SERIES FRAMED TACKBOARD 852CC	GUILFORD OF MAINE UPHOLSTERY, COLOR: TBD	4' X 6'	
	WC-1	WALLCOVERING	WOLF GORDON	RIDGELINE	AEGEAN RGL 5416	---	
	WC-2	WALLCOVERING	WOLF GORDON	ARIA	FROST ARI 9373	---	
	WP-1	WALL PROTECTION	WOLF GORDON	RAMPART- LUCEA	HAZELNUT	---	
CEILINGS							
	ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA- BEVELED TEGULAR 1941	WHITE	24" X 24" X 7/8"	GRID: PRELUDE 9/16"
	GWB	PAINTED GWB	---	VARIES REFER TO CEILING PLAN	---	---	
MILLWORK							
	PL-1	PLASTIC LAMINATE	WILSONART	HPL	PINNACLE WALNUT	---	CABINETRY
	PL-2	PLASTIC LAMINATE	WILSONART	HPL	ARENITE CREAM	---	COUNTERS
	SS-1	SOLID SURFACE	WILSONART	SOLID SURFACE	CARBONE MARMA	---	COUNTERS
INTERIOR...							
	GF-1	GLASS FILM	DECORATIVE FILMS	BEACH GRASS GRADIENT	WHITE TO CLEAR	---	
WINDOW...							
	WS-1	WINDOW SHADES	MECHO SHADES	THERMOVEIL 1500 3% OPENNESS	WHITE	---	MANUAL
	WS-2	WINDOWS SHADES	MECHO SHADES	THERMOVEIL 1500 3% OPENNESS	WHITE	---	AUTOMATED
OPERABLE...							
	OP-1	OPERABLE PARTITION	SKYFOLD	---	CARNEGIE-XOREL;TWINE 6217	---	
	OP-2	OPERABLE PARTITION	MODERNFOLD	ACOUSTI-SEAL ENCORE AUTOMATED	CLEAN IMPACT TEXTILES- MARIN 1300; DOLPHIN 1147	---	

ROOM FINISH SCHEDULE

Room No.	Room Name	FLOORS Material	FLOORS Base	WALLS N	WALLS S	WALLS E	WALLS W	CEILINGS Material	Notes
FIRST FLOOR									
01	COVERED ENTRY								
02	VESTIBULE	WOC-1	RB-1	PNT-1	GLASS	GLASS	GLASS	ACT-1	
03	GREETER	LVT-2	RB-1	N/A	N/A	PNT-4	N/A	ACT-1/GWB PNT-2	ST-1 @ FIREPLACE
04	QUIET RM.	CPT-1	RB-1	PNT-4/WC-2	PNT-4	PNT-4	PNT-4	ACT-1/GWB PNT-2	ST-1 @ FIREPLACE
05	CRAFT & MULTI PURPOSE RM.	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-5	ACT-1	
05.1	STORAGE	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
06	SERVICE RM.	LVT-1	RB-1	P-1	PNT-1	PNT-5	PNT-1	ACT-1	
07	TOILET RM	LVT	PTB-1	CWT-1	CWT-1	CWT-1	CWT-2	ACT-1	
08	S. CORRIDOR	LVT-1 & LVT-2	WDB-1	N/A	PNT-1/WP-1	PNT-1/WP-1	PNT-1/WP-1/WC-2	ACT-1/GWB PNT-2	
08.1	CLOSET	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
09	W. CORRIDOR	LVT-1 & LVT-2	WDB-1	PNT-1/WP-1/WC-1	PNT-1/WP-1/WC-2	PNT-1/WP-1	PNT-1/WP-1	ACT-1/GWB PNT-2	
09.1	COAT CL.	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
09.2	DRINKING FOUNTAIN	LVT-2	RB-1	PNT-3	PNT-3	PNT-3	PNT-3	ACT-1	
09.3	JANITOR	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
09.4	CLOSET	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
09.5	CLOSET	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
10	FLEX OFFICE 1	CPT-1	RB-1	PNT-1	PNT-1	PNT-5	PNT-1	ACT-1	
11	DIRECTOR OFFICE	CPT-1	RB-1	PNT-5	PNT-1	PNT-1	PNT-1	ACT-1	
12	TOWN NURSE	LVT-1	RB-1	PNT-5	PNT-1	PNT-1	PNT-1	ACT-1	
13	FLEX OFFICE 2	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-5	ACT-1	
14	M. TOILET RM.	PT-1	PTB-1	CWT-1	CWT-1	CWT-1	CWT-2	ACT-1	
15	W. TOILET RM.	PT-1	PTB-1	CWT-1	CWT-1	CWT-3	CWT-1	ACT-1	
16	EXIST. MECH	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
17	EXIST. KITCHEN	ETR	ETR	PNT-1	PNT-1	PNT-1	PNT-1	ETR	
17.1	PANTRY	ETR	ETR	PNT-1	PNT-1	PNT-1	PNT-1	ETR	
18	KITCHEN EXTENSION	LVT-1	RB-1	PNT-1	P-1	PNT-1	PNT-5	ACT-1	
19	SPRINKLER CL.	CONC.	N/A	PNT-1	PNT-1	PNT-1	PNT-1	EXPOSED	
20	STORAGE	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
21	STORAGE CL.	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
22	MEDIUM MULTI-PURPOSE	LVT-1 & LVT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1/WC-1	ACT-1/GWB PNT-2	
22.1	CLOSET	LVT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
22.2	CLOSET	LVT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
23	LARGE MULTI-PURPOSE	LVT-1 & LVT-2	RB-1	PNT-1/WC-1	PNT-1	PNT-1	PNT-1	ACT-1/GWB PNT-2	
23.1	CLOSET	LVT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
23.2	CLOSET	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
23.3	CLOSET	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
23.4	CLOSET	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
24	ACTIVITY RM	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1/GWB SOFFIT P-2	
25	COVERED PORCH								

LYMES' SENIOR CENTER RENOVATION

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TEC LANDSCAPE DESIGN

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ROOM FINISH SCHEDULE, FINISH SCHEDULE AND DETAILS

SCALE:

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A6.04

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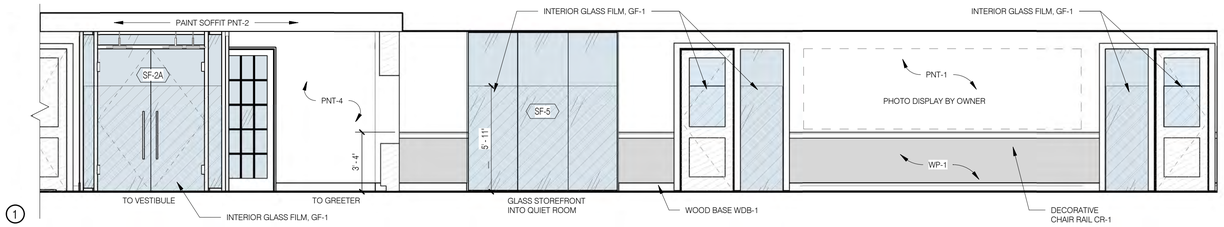

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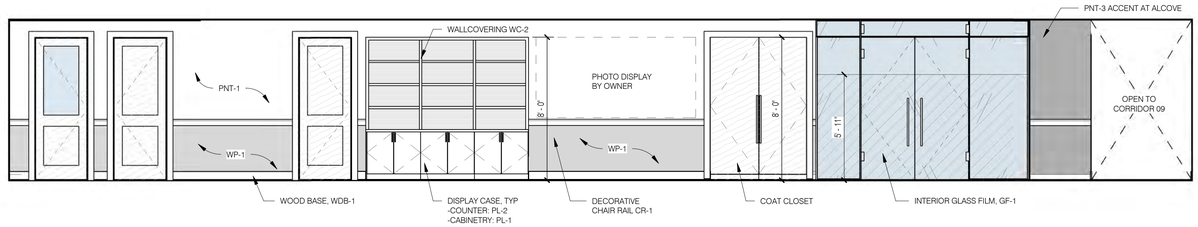
S. CORRIDOR 08 - EAST

1/4" = 1'-0"



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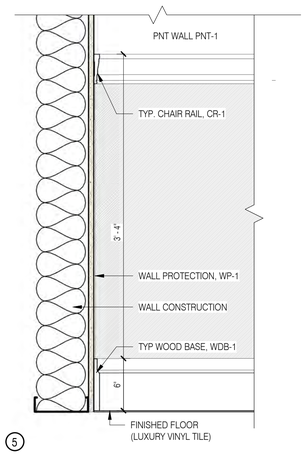
S. CORRIDOR 08 - WEST

1/4" = 1'-0"



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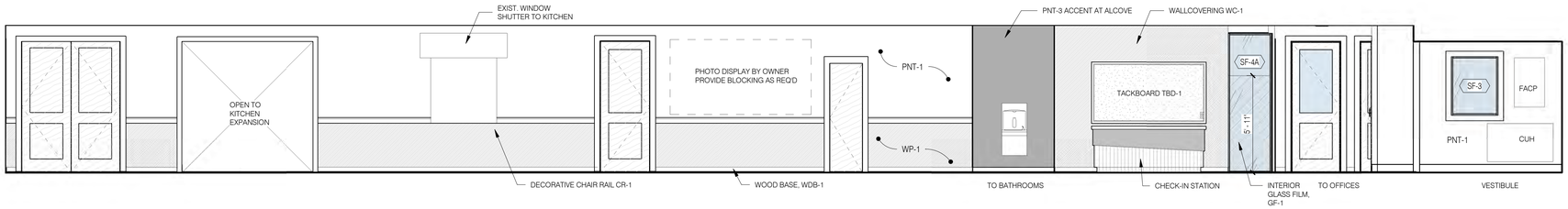
CORRIDOR WALL DETAIL

1 1/2" = 1'-0"



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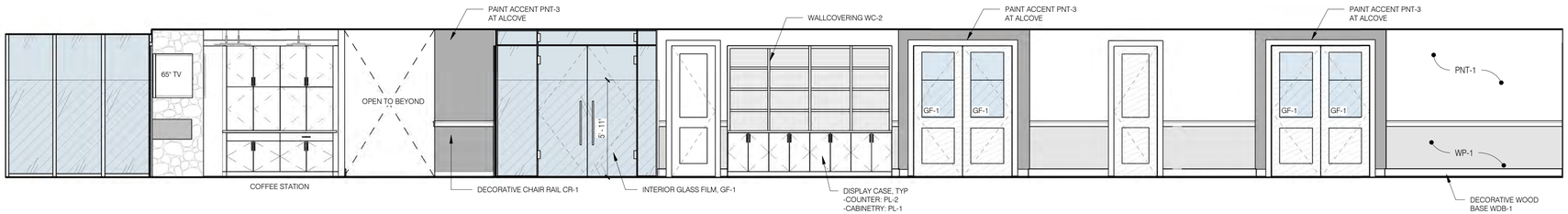
W. CORRIDOR 09 - NORTH

1/4" = 1'-0"



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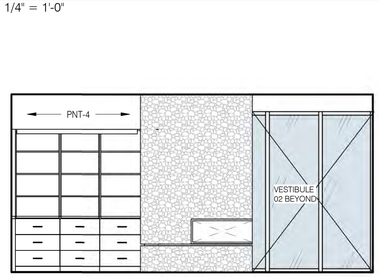
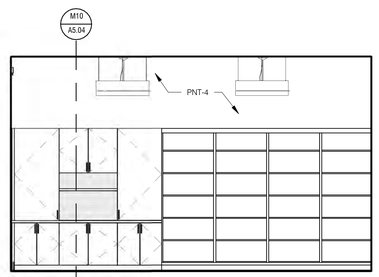
W. CORRIDOR 09 - SOUTH

1/4" = 1'-0"

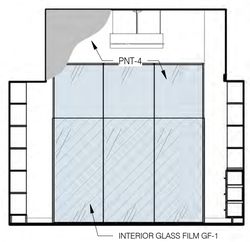


6 NORTH

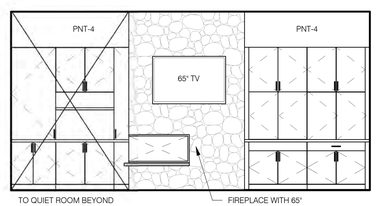


7 SOUTH

8 EAST



9 WEST



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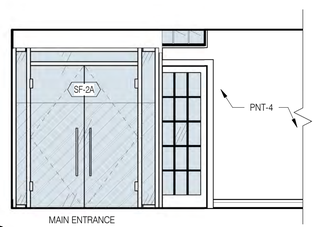

11 EAST

04 QUIET ROOM - ELEVATIONS

1/4" = 1'-0"

03 GREETER- ELEVATIONS

1/4" = 1'-0"

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SCALE: As indicated

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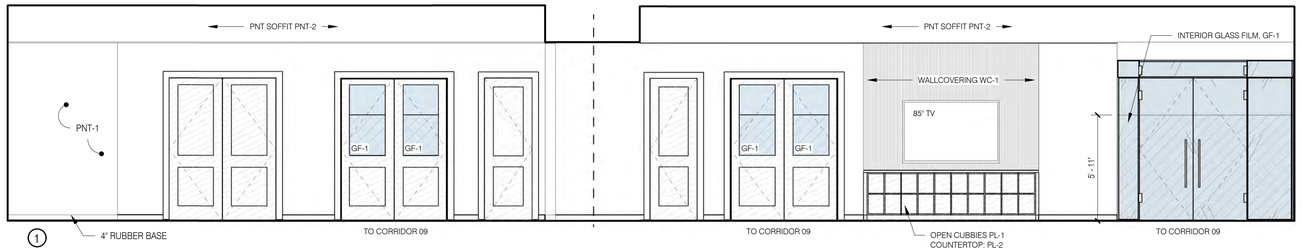
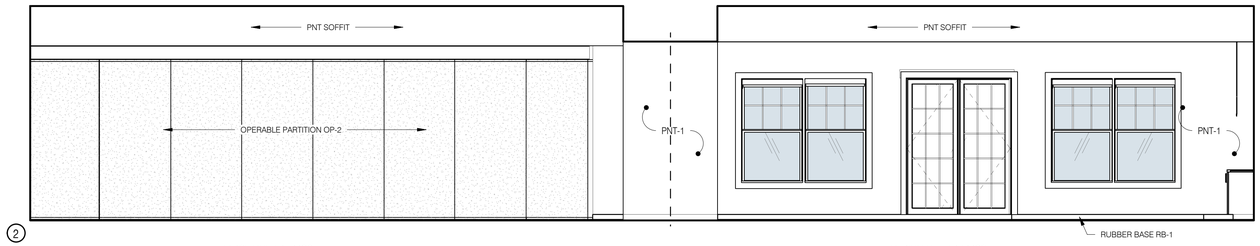


1

MULTI PURPOSE ROOM - NORTH

1/4" = 1'-0"



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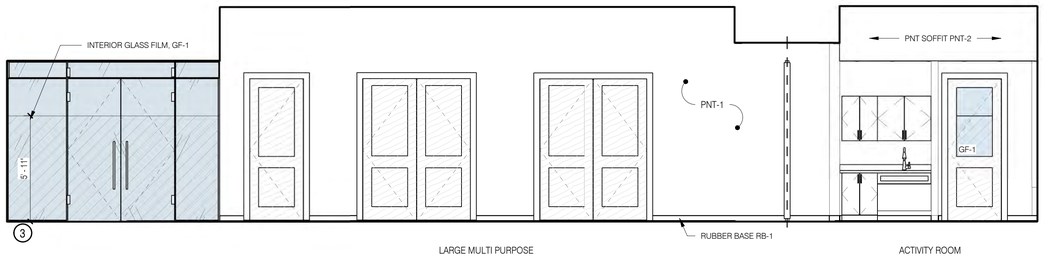
MULTI PURPOSE ROOM - SOUTH

1/4" = 1'-0"



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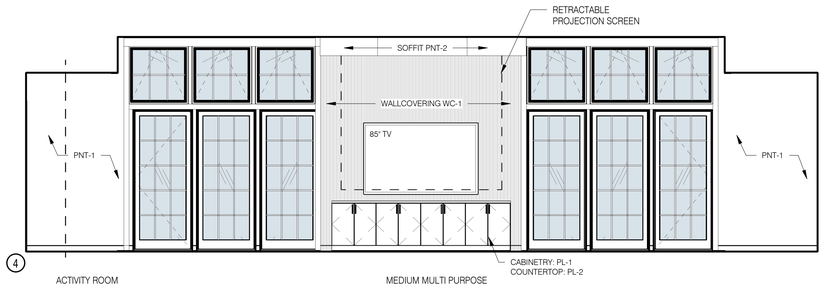
MULTI PURPOSE ROOM - EAST

1/4" = 1'-0"



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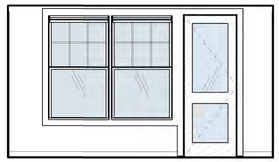
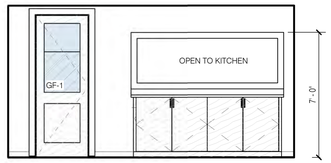
MULTI PURPOSE ROOM - WEST

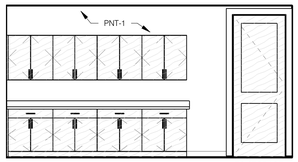
1/4" = 1'-0"



5 NORTH



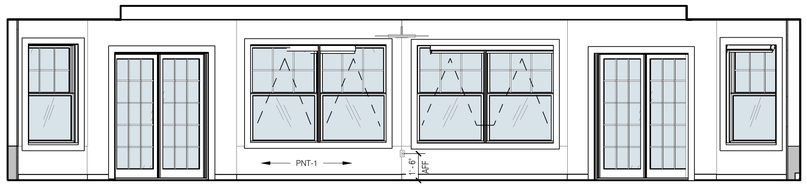
6 EAST



7 WEST

17 KITCHEN EXTENSION - ELEVATIONS

1/4" = 1'-0"



8 SOUTH

22 ACTIVITY RM. ELEVATION

1/4" = 1'-0"

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DRAWING NAME:
INTERIOR ELEVATIONS II

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

SHEET:
A7.02

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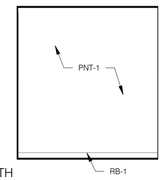
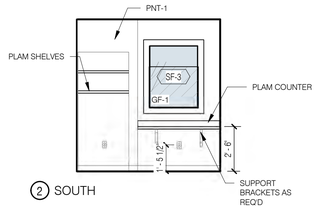
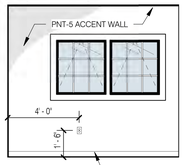


1 NORTH



2 SOUTH



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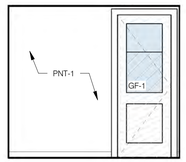
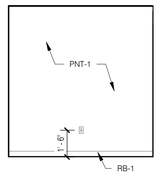


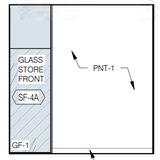
4 WEST

10 FLEX OFFICE - ELEVATIONS

1/4" = 1'-0"



5 NORTH



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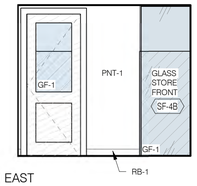

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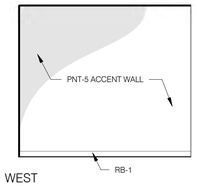
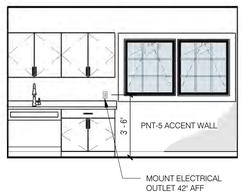


8 WEST

13 FLEX OFFICE - ELEVATIONS

1/4" = 1'-0"



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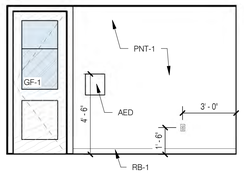

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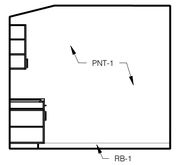
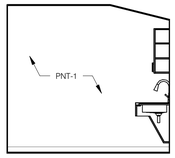


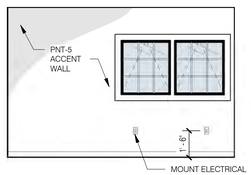
11 EAST



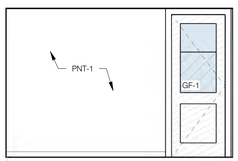
12 WEST

12 TOWN NURSE - ELEVATIONS

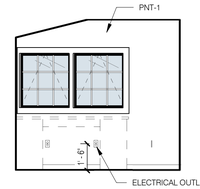
1/4" = 1'-0"



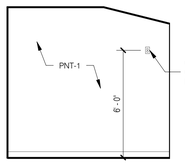
13 NORTH



14 SOUTH



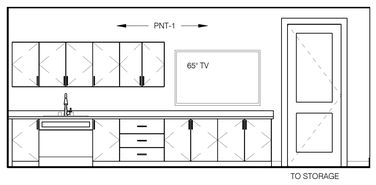
15 EAST



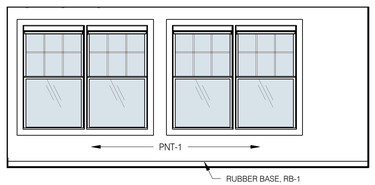
16 WEST

11 DIRECTOR OFFICE - ELEVATIONS

1/4" = 1'-0"



17 NORTH



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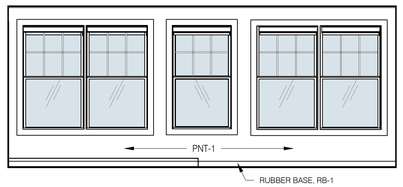
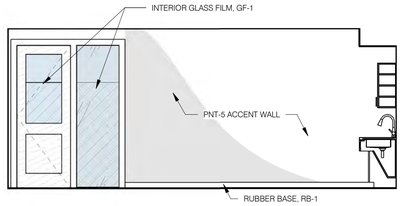


19 WEST



20 WEST

05 CRAFT AND MULTI PURPOSE RM. - ELEVATIONS

1/4" = 1'-0"

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LYMES' SENIOR CENTER RENOVATION

26 Town Woods Road
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80 Wall Street
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Telephone: (203) 245-0752

TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	KD
CHECKED BY:	GN
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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CM REFERENCE

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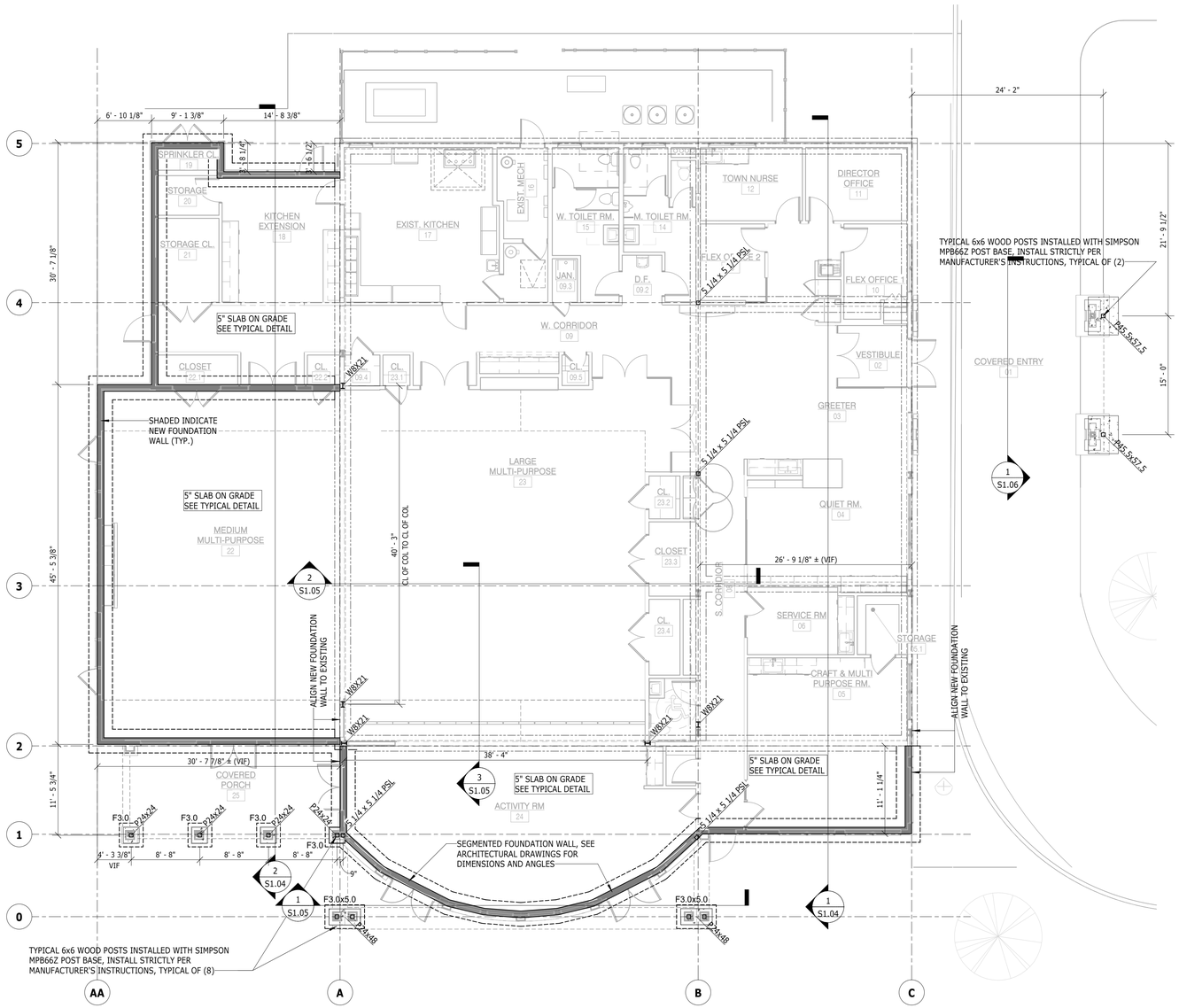
DRAWING NAME:
INTERIOR ELEVATIONS III

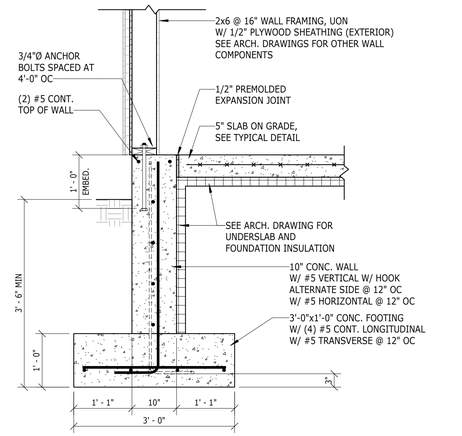
SCALE: 1/4" = 1'-0"

SHEET:
A7.03



1 FOUNDATION PLAN
1 / S1.01 Scale: 1/8" = 1'-0"

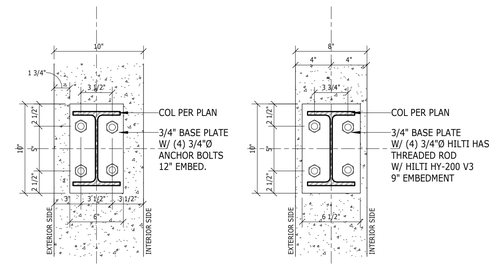
NOTES:
1.



2 NEW FOUNDATION WALL TYPICAL
2 / S1.01 Scale: 3/4" = 1'-0"

COLUMN FOOTING SCHEDULE

TYPE	LENGTH	WIDTH	THICKNESS	REINFORCING
F3.0	3' - 0"	3' - 0"	1' - 0"	(4) #5 EACH WAY, BOTTOM
F3.0x5.0	5' - 0"	3' - 0"	1' - 0"	(4) #5 LONG, BOTTOM (6) #5 SHORT, BOTTOM



BASE PLATE ON NEW 10" CONCRETE WALL

BASE PLATE ON EX 8" CONCRETE WALL

3 BASE PLATE DETAIL
3 / S1.01 Scale: 1 1/2" = 1'-0"

N

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ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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STAMP: CM REFERENCE - NOT FOR CONSTRUCTION

DRAWING NAME: FOUNDATION PLAN

SCALE: As indicated

SHEET: S1.01

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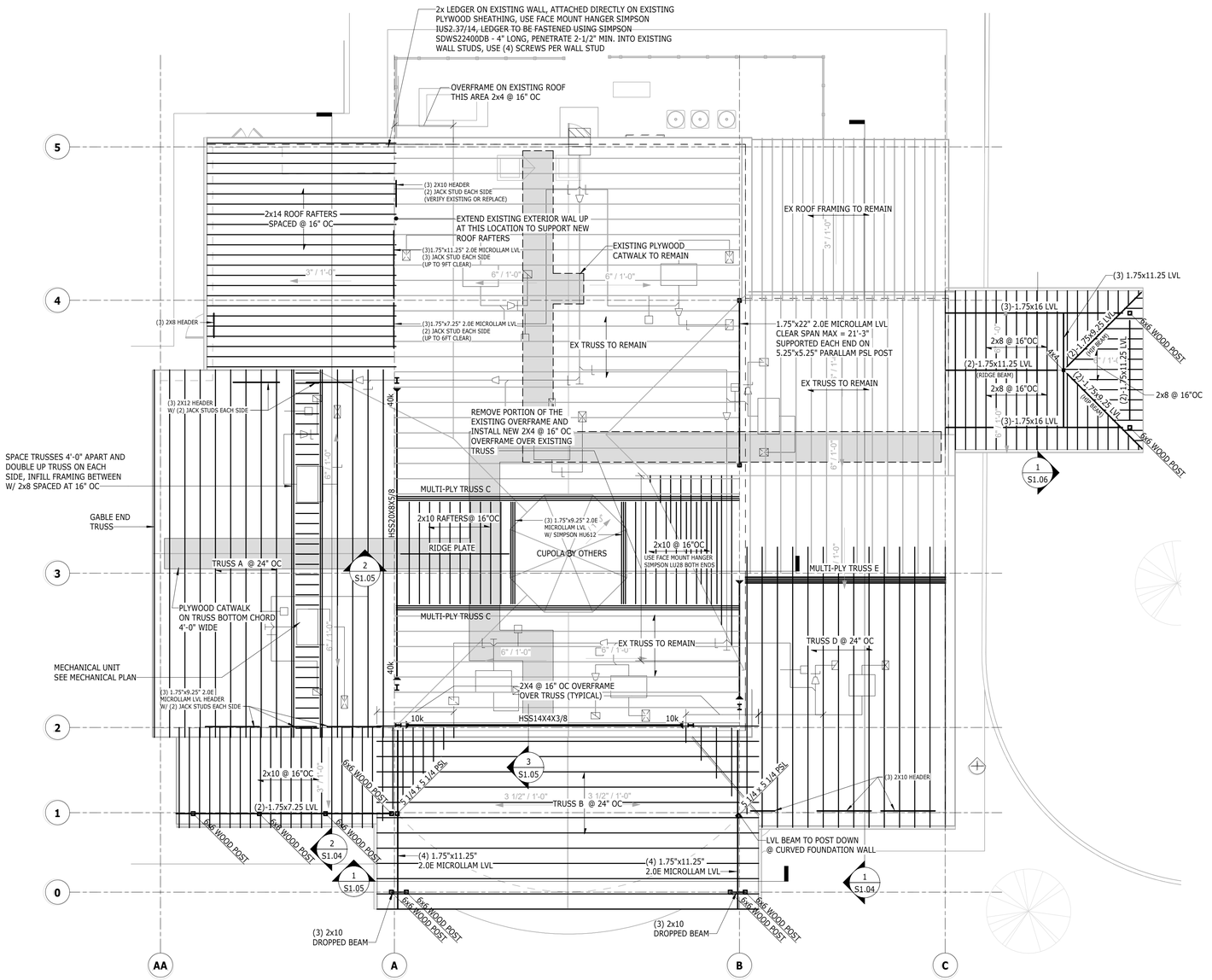

1 S1.02 ROOF FRAMING PLAN

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

NOTES:
1. ALL LVL TO BE MICROLLAM LVL 2.0E.

N

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DRAWING NAME: ROOF FRAMING PLAN

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

SHEET: S1.02

STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "MANUAL OF STEEL CONSTRUCTION, ASD (LATEST EDITION)".
2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED ON THE DRAWINGS:

   A. ALL ROLLED SHAPES AND CHANNELS: ASTM A-572 OR A-992, MIN. YIELD STRENGTH 50 KSI
   B. MISCELLANEOUS ANGLES: ASTM A-36, MIN. YIELD STRENGTH 36 KSI
   C. HOLLOW STRUCTURAL STEEL (HSS): ASTM A500 GRADE B, MIN. YIELD STRENGTH OF 42 KSI FOR PIPES, 46 KSI FOR TUBES

4. ALL CONNECTION MATERIAL AND BASE PLATES SHALL CONFORM TO ASTM STANDARD A-36 (36KSI).
5. ALL BOLTS SHALL CONFORM TO ASTM A325 OR A490, NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM A-F436.
6. ALL ANCHOR BOLTS/RODS SHALL CONFORM TO ASTM F-1554 GRADE 36 WITH WELD ABILITY SUPPLEMENT S1, UNLESS OTHERWISE NOTED. SUBMIT GRADE CERTIFICATIONS FOR RECORD. STEEL SUPPLIER SHALL SUPPLY RIGID STEEL TEMPLATES FOR ANCHOR ROD INSTALLATION.
7. ALL SHOP OR FIELD BOLTED CONNECTIONS, SHALL BE BOLTED CONNECTIONS USING 3/4 INCH DIAMETER A325 N BOLTS IN STANDARD HOLES, UNLESS SPECIFICALLY NOTED OTHERWISE.
8. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
9. ALL BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED.
10. ALL WELD BACK UP BARS SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED, UNLESS NOTED OTHERWISE.
11. ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIDE SPECIFIED BY THE AISC MANUAL OF STEEL DESIGN. (SINGLE PASS AS REQUIRED)
12. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITIONS. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. BARE ELECTRODES AND GRANULAR FLUX SHALL CONFORM TO A.W.S. A5.17, F70 A.W.S. FLUX CLASSIFICATION.
13. ALTERNATE CONNECTIONS WILL BE ACCEPTED ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF THE ACCEPTABILITY AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE SPECIFIC DETAILS SHOWN ON THE DRAWINGS. IN ANY EVENT THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS WHICH THEY PROPOSE.
14. SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED.
15. WHEN NOT SPECIFICALLY DETAILED ELSEWHERE ON THE DRAWINGS, ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DETAILED AS SHOWN IN THE TYPICAL BEAM CONNECTION DETAILS.
16. ALL BEAM AND GIRDERS SHALL BE CONNECTED FOR 115% OF THE REACTION DENOTED BY THE " GRAVITY SHEAR REACTION" SYMBOL ON THE PLANS. PROVIDE A MINIMUM 2 BOLT CONNECTION. IF NO REACTION IS GIVEN PROVIDE CONNECTION FOLLOWING NOTE 17 BELOW.
17. ALL BEAM AND GIRDER CONNECTIONS SHALL BE AT LEAST CAPABLE OF DEVELOPING THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER USING THE REACTION FROM THE ALLOWABLE LOAD OF BEAM AS TABULATED IN THE AISC MANUAL OF STEEL CONSTRUCTION LATEST EDITION UNLESS NOTED OTHERWISE. FOR COMPOSITE BEAMS MULTIPLY THE REACTION BY THE RATIO Str/S WHERE Str = SECTION MODULUS OF THE TRANSFORMED COMPOSITE CROSS SECTION WITH RESPECT TO THE BOTTOM FLANGE, AND S= SECTION MODULUS OF THE STRUCTURAL STEEL ALONE.
18. FILLER BEAMS SHOULD BE SPACED EQUALLY BETWEEN THE SUPPORTS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
19. ALL HOLES AND CUTS SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
20. STEEL MEMBERS INDICATED ON THE DRAWINGS TO BE ENCASED IN CONCRETE SHALL BE UNPAINTED ON THE CONTACT SURFACES AND SHALL BE WRAPPED WITH A MINIMUM 6X6-W2.9xW2.9 W.W.F. REINFORCING UNLESS OTHERWISE NOTED.
21. THE STRUCTURAL STEEL CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATION WITH THE TOP OF CONCRETE ELEVATION.
22. THE MAXIMUM LOAD HUNG FROM ANY BEAM FOR MEP DUCTWORK, PIPING ETC SHALL BE DISTRIBUTED TO THE BEAM'S TRIBUTARY AREA IN A WAY THAT THE ALLOWABLE DESIGN LOADS LISTED IN THE GENERAL NOTES ARE NOT EXCEEDED. THE CONTRACTOR SHALL COORDINATE THE LOADS OF ALL TRADES AND PROVIDE ADDITIONAL SUPPORT OR DISTRIBUTION FRAMING AS REQUIRED TO ACHIEVE THESE LOADS.
23. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS AND DRAWINGS RELATED TO OTHER TRADES. THE GENERAL CONTRACTOR IS RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC., WITH THE WORK OF THE OTHER TRADES.
24. PROVIDE ANY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE STRUCTURES AND INDIVIDUAL ELEMENTS UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
25. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.
26. ALL TUBE & PIPE SECTIONS EXPOSED TO WEATHER SHALL HAVE OPEN ENDS CAPPED WITH 1/4" PLATE.
27. ALL STRUCTURAL STEEL TO RECEIVE SPRAY APPLIED FIRE PROTECTION SHALL BE LEFT UNCOATED.
28. FOR EXPOSED INTERIOR STRUCTURAL STEEL, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.
29. STEEL FABRICATOR SHALL COORDINATE ALL HOLE LOCATIONS FOR SIMPSON TIE DOWN ANCHORS. ALL HOLES SHALL BE SHOP DRILLED THROUGH BEAM FLANGES.

REINFORCED MASONRY NOTES (continue)

9. BAR POSITIONERS FOR VERTICAL WALL BARS SHALL BE 9 GAUGE, GALVANIZED WIRE. PROVIDE BAR POSITIONERS FOR ALL REINFORCED CELLS.
10. CMU BELOW GRADE SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE ALL CELLS FULLY GROUTED. CMU ABOVE THE FINISHED FLOOR SHALL BE NORMAL OR LIGHTWEIGHT UNITS AND SHALL BE GROUTED AT ALL REINFORCED CELLS AND WHERE INDICATED.
11. WALLS SHALL BE ADEQUATELY BRACED WITH TEMPORARY SUPPORTS UNTIL THE ROOF STRUCTURE HAS BEEN PLACED, METAL DECK INSTALLED, AND PROPERLY WIND-ANCHORED.
12. FOR ALL NON-LOAD BEARING CONCRETE MASONRY, PROVIDE #5 @ 24" OC VERTICAL REINF. IN THE CENTER OF CMU CORES AND GROUT ALL CELLS CONTAINING REINFORCING: THE FIRST CELL AT CORNERS AND ENDS OF WALLS SHALL BE REINFORCED WITH (1) #5 AND GROUTED. AT WALL OPENINGS, PROVIDE (1)-# 5 EACH SIDE OF OPENING, AND EXTEND BAR A MINIMUM OF 24" ABOVE RE-ENTRANT CORNERS AT TOP OF MASONRY OPENINGS. NON-LOAD BEARING CMU WALLS ARE NOT SHOWN IN STRUCTURAL DRAWINGS. FOR MORE INFORMATION, SEE ARCH. DRAWINGS. PROVIDE SLIP CONNECTIONS AT TOP OF NON-LOAD BERING CMU WALLS.
13. FOR LOCATION AND THICKNESS OF CMU WALLS, SEE ARCHITECTURAL DRAWINGS.
14. ELASTOMERIC JOINT SEALANTS FOR VERTICAL AND HORIZONTAL CONTROL JOINTS SHALL MEET ASTM C920 AND SHALL BE APPLIED IN ACCORDANCE WITH ASTM C962.

TIMBER / WOOD FRAMING NOTES

1. ALL STRUCTURAL DIMENSION LUMBER SHALL BE OF KILN-DRIED DOUGLAS FIR-LARCH, GRADE NO. 2 OR BETTER. LUMBER OF OTHER SPECIES MEETING THE FOLLOWING DESIGN VALUES (WITHOUT ADJUSTMENT FACTORS) ARE ACCEPTABLE AS REPLACEMENT:

   BENDING (F_b) = 900 PSI
   TENSION PARALLEL TO GRAIN (F_t) = 575 PSI
   SHEAR PARALLEL TO GRAIN (F_v) = 180 PSI
   COMPRESSION PERPENDICULAR TO GRAIN (F_{c_per}) = 625 PSI
   COMPRESSION PARALLEL TO GRAIN (F_c) = 1,350 PSI
   MODULUS OF ELASTICITY (E) = 1,600,000 PSI
   MODULUS OF ELASTICITY FOR STABILITY (E_{min}) = 580,000 PSI
   SPECIFIC GRAVITY (G) = 0.50

2. ALL TIMBER FRAMING TO BE DONE IN STRICT CONFORMANCE WITH THE AITC TIMBER CONSTRUCTION MANUAL.
3. FLOOR AND ROOF FRAMING MEMBERS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS, HEADERS OR FRAMED USING JOIST HANGERS.
4. ALL PLYWOOD SHEATHING SHALL BE APA RATED, EXPOSURE 1, CONFORMS TO ITS TYPE IN DOC PS1 OR DOC PS2. PROVIDE BLOCKING AT SHEATHING EDGES NOT FALLING DIRECTLY OVER FRAMING MEMBER. THE FOLLOWING NOMINAL THICKNESSES SHALL BE PROVIDED AS FOLLOWS:

   FLOOR DECKING: 3/4" NOMINAL
   ROOF SHEATHING: 5/8" NOMINAL
   WALL SHEATHING: 1/2" NOMINAL

   PLYWOOD SHEATHING THAT IS PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR-1 GRADE.
5. PLYWOOD SHEATHING FASTENING PATTERN:

   FOR WALLS: USE 10d NAILS SPACED AT 6" OC AT PANEL EDGES & 12" OC ON INTERMEDIATE FRAMING. UON ON PLAN.
   FOR FLOOR SHEATHING: USE 10d NAILS SPACED AT 6" OC AT PANEL EDGES & 12" OC ON INTERMEDIATE FRAMING, INSTALL WITH CONSTRUCTION ADHESIVE. (PL-400 OR EQUIVALENT) BETWEEN SHEATHING AND FLOOR JOISTS
   FOR ROOF SHEATHING: USE 10d NAILS SPACED AT 6" OC AT PANEL EDGES & 12" OC ON INTERMEDIATE FRAMING.

   ALL 10d NAILS SHALL BE COMMON NAILS AND CAN BE REPLACED WITH #10 x 3" LONG WOOD SCREWS.
6. METAL-PLATE CONNECTED WOOD TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGINEERED SHOP DRAWINGS. SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER CURRENTLY REGISTERED FOR PRACTICE IN THE STATE OF THE PROJECT. SHOP DRAWINGS SHALL SHOW TRUSS PLAN LAYOUT, AND CLEARLY INDICATE ALL LOAD CASES CONSIDERED, MAXIMUM REACTIONS, AND DEFLECTIONS FOR EACH TYPICAL TRUSS CONFIGURATION. SHOP DRAWINGS SHALL INDICATE ALL REQUIRED FIELD-INSTALLED LATERAL BRACING.
7. ALL WOOD IN CONTACT WITH CONCRETE SURFACES OR EARTH SHALL BE PRESERVATIVE TREATED (PT).
8. ALL FASTENERS AND FRAMING CLIPS IN CONTACT WITH PT LUMBER OR EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
9. ALL PROPRIETARY PRODUCTS SHALL BE PROVIDED AS NOTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
10. INSTALLATION OF LVL'S SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES. DO NOT DRILL OR CUT ANY PROPRIETARY WOOD PRODUCT WITHOUT APPROVAL OF THE ENGINEER OR MANUFACTURER. LAMINATE MULTIPLE PLY LVLs WITH (2) ROWS OF 1/2" A307 THROUGH-BOLTS AT 16" OC, UON.
11. GYPSUM SHEATHING SHALL HAVE A MINIMUM THICKNESS OF 5/8" FOR ALL GYPSUM SHEAR WALLS INDICATED HEREIN. GYPSUM SHEATHING SHALL COMPLY WITH ASTM C 79. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM C 1280.
12. PROVIDE 2X4 FRAMING AT 24" OC BETWEEN FLOOR JOISTS UNDER ALL PARTITIONS THAT ARE PARALLEL TO THE FLOOR JOISTS.
13. ALL WOOD BEARING WALLS SHALL BE SHEATHED ON AT LEAST (1) SIDE PRIOR TO LOADING.
14. ALL NAIL SIZES SPECIFIED ON DRAWINGS UNLESS OTHERWISE NOTED SHALL BE COMMON NAILS WITH THE FOLLOWING DIAMETERS AND LENGTHS:

NAIL SCHEDULE

NAIL SIZE		SHANK DIAMETER	SHANK LENGTH
PENNY	GAUGE		
6d	11	0.113"	2"
8d	10	0.131"	2-1/2"
10d	9	0.148"	3"
12d	9	0.148"	3-1/4"
16d	8	0.162"	3-1/2"
20d	6	0.192"	4"

REINFORCED MASONRY NOTES

1. HOLLOW CONCRETE MASONRY UNITS (CMU) SHALL MEET ASTM SPECIFICATIONS FOR C90. CONCRETE MASONRY SHALL HAVE A PRISM STRENGTH (f'm) OF A MINIMUM OF 2000PSI, NORMAL WEIGHT. PRISM STRENGTHS SHALL BE DETERMINED FROM TESTS IN ACCORDANCE WITH ASTM E447 METHOD B, EXCEPT THAT PRISMS SHALL BE CONSTRUCTED IN STACK BOND WITH A HEIGHT TO THICKNESS RATIO BETWEEN 1.33 AND 5.0 WITH A MINIMUM OF ONE JOINT.
2. MASONRY SHALL BE LAID IN RUNNING BOND. PROVIDE CONTROL JOINTS WHERE INDICATED. PROVIDE FACE SHELL BEDDING AT UN-REINFORCED CORES. PROVIDE FULL MORTAR BEDDING AT CORES TO RECEIVE STEEL REBAR.
3. CLAY MASONRY UNITS SHALL MEET ASTM SPECIFICATIONS FOR C216, TYPE FBS.
4. MORTAR SHALL BE ASTM C270, TYPE S FOR ALL ABOVE GRADE APPLICATIONS. TYPE M SHALL BE USED BELOW GRADE. PROVIDE FULL BEDDING BELOW GRADE AND AT ALL REINFORCED CORES ABOVE GRADE. USE FACE SHELL BEDDING AT UNGROUTED CORES. COMPRESSIVE STRENGTH OF MORTAR SHALL BE AS REQUIRED TO OBTAIN THE PRISM STRENGTH SPECIFIED ABOVE. UNDER NO CIRCUMSTANCES SHALL MORTAR BE USED AS GROUT.
5. GROUT SHALL MEET ASTM SPEC. C476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. ALL CELLS AND BOND BEAMS CONTAINING REINFORCING STEEL SHALL BE FILLED SOLID WITH GROUT.
6. GROUT SHALL BE PLACED BY LOW-LIFT METHOD. MAXIMUM GROUT POUR HEIGHT SHALL BE 4 FEET.
7. DEFORMED STEEL BARS SHALL MEET ASTM A 615 AND SHALL BE GRADE 60. BENT BARS SHOULD BE SHOP FABRICATED. SPLICES IN VERTICAL REINFORCING BARS SHALL NOT BE LESS THAN 48 BAR DIA. OR 24", WHICHEVER IS GREATER.
8. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE, 9 GAUGE, HOT-DIPPED GALVANIZED. PLACE JOINT REINFORCEMENT AT EACH COURSE (8" OC). JOINT REINFORCEMENT SHALL BE EQUIPPED WITH ADJUSTABLE JOINT REINFORCEMENT (ADJ. BRICK TIES) TO ACCOMMODATE BRICK VENEER. SPACING OF BRICK TIES TO BE 16" OC HORIZONTALLY AND 8" OC VERTICALLY.

REINFORCED CONCRETE NOTES

1. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM WITH ACI-318, "AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" LATEST EDITION. DETAILS SHALL BE IN ACCORDANCE WITH ACI-315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL ACI REQUIREMENTS FOR HOT AND COLD WEATHERING CONCRETING MUST BE ADHERED TO.
2. CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:

   A. SLAB ON GRADE: 4000 PSI NORMAL WEIGHT
   B. FOUNDATION WALLS: 4000 PSI NORMAL WEIGHT
   C. FOOTINGS & PIERS: 4000 PSI NORMAL WEIGHT
   D. ALL OTHER CONCRETE: 4000 PSI NORMAL WEIGHT

3. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE AN AIR-ENTRAINING AGENT.
4. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS REQUIRED TO BE WELDED AS SHOWN ON PLANS. ALL REINFORCING BARS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 50.
5. WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A185. SUPPORT FABRIC WITH CHAIRS OR LIFTS DURING CONCRETE PLACEMENT TO ENSURE PROPER POSITION IN SLAB.
6. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STRIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
7. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE DRAWINGS. SPLICING & EMBEDMENTS SHALL BE IN ACCORDANCE WITH ACI 318 WHERE NOT SPECIFICALLY DETAILED/ INDICATED ON THE DRAWINGS.

   -LAP WALL TOP HORIZONTAL REINFORCEMENT AT CENTER OF SPAN
   -LAP WALL BOTTOM HORIZONTAL REINFORCEMENT AT SUPPORT
   -LAP INSIDE FACE WALL VERTICAL REINFORCEMENT AT SUPPORT
   -LAP OUTSIDE FACE VERTICAL WALL REINFORCEMENT AT MID-HEIGHT OF WALL
   -UNLESS NOTED OTHERWISE, TERMINATE BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS
   -ALL HOOKED BARS NOT DIMENSIONED SHALL BE STANDARD HOOKS

8. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   SLABS ..... 3/4 IN.
   WALLS ..... 1 IN.
   COLUMNS .... 1-1/2 IN.
   ALL CONCRETE EXPOSED TO EARTH/ WEATHER..... 2 IN.
   ALL CONCRETE CAST AGAINST EARTH (NO FORMWORK)....3 IN.
9. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI-318, CHAPTER 6.4. SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION JOINT DETAILS, LOCATIONS AND THE SEQUENCE OF POURS FOR THE STRUCTURAL ENGINEER'S REVIEW PRIOR TO BEGINNING WORK.
10. WALL AND GRADE BEAM CONSTRUCTION JOINTS SHALL BE LOCATED TO PROVIDE A 60-FOOT MAXIMUM LENGTH OF CONCRETE PLACEMENT.
11. VERTICAL CONSTRUCTION JOINTS IN GRADE BEAMS AND WALLS SHALL BE USED ONLY WITH PRIOR APPROVAL OF THE ENGINEER (SEE NOTE 9 ABOVE) AND SHALL BE LOCATED AS FOLLOWS:

    FOUNDATION WALLS: MINIMUM 8'-0" FROM ANY COLUMN LINE OR WALL OPENING
    GRADE BEAMS: AT CENTERLINES BETWEEN SUPPORTS

12. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING PRIOR TO CONSTRUCTION BY THE ENGINEER.
13. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
14. THE CONTRACTOR SHALL PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF APPROVED SHOP DRAWINGS FOR FIELD USE.
15. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED TO 1/4 INCH AMPLITUDE FOR THE ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS AND APPLY A BONDING AGENT AS REQUIRED.
16. CONTRACTOR SHALL COORDINATE AND/ OR FIELD VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
17. CONTRACTOR SHALL COORDINATE LOCATION OF INSERTS, WELDED PLATES AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE WITH ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS.
18. CONTRACTOR SHALL COORDINATE LOCATION OF FLOOR DRAINS, CURBS, CONCRETE PADS, BRICK SHELVES, THENCHES, FLOOR DEPRESSIONS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
19. HORIZONTAL PIPES OR CONDUITS PLACED IN SLABS SHALL NOT BE SPACED CLOSER THAN 3 x THE DIAMETER OF CENTER. PIPE AND CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN THE SLAB WITHIN 12 INCHES OF ANY COLUMN FACE.
20. CONTRACTOR SHALL USE RIGID STEEL TEMPLATES (SUPPLIED BY THE STEEL FABRICATOR) TO INSTALL ANCHOR RODS.
21. ALL SLABS SHALL BE FLAT AND LEVEL PER THE CONCRETE SPECIFICATIONS OR ARCHITECT'S REQUIREMENTS.
22. ALL CONCRETE WORK, REINFORCING, PLACEMENT, AND FORMWORK SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY RETAINED BY THE OWNER FOR THE FOLLOWING ITEMS:

    A. INSPECT BOTTOM OF FOOTING SOIL CONDITIONS
    B. INSPECT FORMWORK AND PLACEMENT OF CONCRETE
    C. TESTING FRESH CONCRETE IN THE FIELD PER ASTM C-172, MODIFIED FOR SLUMP BY ASTM C-94
    D. SLUMP TEST PER ASTM C-143, ONE TEST AT POINT OF DISCHARGE FOR EACH DAYS POUR FOR EACH TYPE OF CONRETE.
    E. TEST AIR CONTENT PER ASTM C-173 (VOLUMETRIC METHOD) OR ASTM C-231 (PRESSURE METHOD), ONE TEST FOR EACH DAYS POUR FOR EACH TYPE OF CONCRETE.
    F. COMPRESSION TEST CYLINDERS PER ASTM C-31 (4-CYLINDERS)
    G. TEST CONCRETE TEMPERATURE EACH TIME A SET OF CYLINDERS IS CAST
    H. COMPRESSION STRENGTH TEST PER ASTM C-39:
       ONE SET FOR EACH DAYS POUR + ADDITIONAL SETS FOR EACH 50-CUBIC YARDS OVER AND ABOVE THE IRST 25-CUBIC YARDS USING THE FOLLOWING ORDER:
       a. ONE CYLINDER TESTED AT 7 DAYS
       b. TWO CYLINDERS TESTED AT 28 DAYS
       c. ONE CYLINDER RETAINED FOR LATER TESTING, IF REQUIRED

CONTRACTORS DESIGN RESPONSIBILITY

1. THE LISTED BELOW PROJECT ITEMS ASSOCIATED WITH FABRICATION, ERECTION AND CONTRACTORS MEANS AND METHODS AND REQUIRING STRUCTURAL DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL RETAIN THE SERVICES OF STRUCTURAL PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT TO PERFORM THE DESIGN OF THESE ITEMS.
3. CALCULATIONS FOR ITEMS MARKED THUS (*) SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ENGINEER OF RECORD, OTHERWISE THE ITEMS SHALL ONLY BE SUBMITTED FOR THE OWNERS RECORD:
   A. CONCRETE MIX DESIGN
   B. REINFORCING STEEL PLACEMENT PLAN
   C. STEEL SHOP DRAWINGS WITH CONNECTION DESIGN (*)
   D. PRE-ENGINEERED LUMBER TRUSS SHOP DRAWINGS (*)

SPECIAL INSPECTIONS

THE FOLLOWING CONTROLLED INSPECTIONS ARE REQUIRED TO BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE OF THE STATE OF CONNECTICUT, LATEST EDITION.

ITEM: SOILS
CONCRETE CONSTRUCTION
STEEL CONSTRUCTION
TIMBER CONSTRUCTION

GENERAL NOTES

1. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, TO THE BEST OF OUR KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2022 CONNECTICUT STATE BUILDING CODE, AND AMENDMENTS TO THE 2021 INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL BUILDING CODE WITH STATE OF CONNECTICUT AMENDMENTS AND ALL APPLICABLE FEDERAL & STATE CODES, STANDARDS, REGULATIONS AND LAWS.
3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMIT.
4. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
5. IN ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.
7. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE.
8. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE STRUCTURES ARE DESIGNED FOR THE FOLLOWING UNIFORMLY DISTRIBUTED, CONCENTRATED AND IMPACT FLOOR LIVE LOADS:

   FLOOR AND ROOF DEAD AND LIVE LOADS
   TYPICAL FLOOR LOAD 100 LBS. /SQ. FT.
   ROOF RTU WEIGHT PER ROOF PLAN
   ROOF DEAD LOAD 20 LBS. /SQ. FT.
   ROOF LIVE LOAD 20 LBS. /SQ. FT.

   RISK CATEGORY: **III (ASSEMBLY WITH OCCUPANT > 300)**

   SNOW LOAD DATA
   GROUND SNOW LOAD: P_g = 30 PSF
   FLAT ROOF SNOW LOAD: P_f = 30 PSF
   SNOW EXPOSURE FACTOR: C_e = 0.9
   SNOW LOAD IMPORTANCE FACTOR: I_s = 1.1
   THERMAL FACTOR: C_t = 1.1
   SLOPE FACTOR, C_s = 1.0
   SNOW DRIFT LOAD(S), IF APPLICABLE, SHALL BE SHOWN IN LOAD DIAGRAMS

   WIND DESIGN DATA
   BASIC DESIGN WIND SPEED: V = 135 MPH
   ALLOWABLE STRESS DESIGN WIND SPEED: V_{ASD} = 105 MPH
   WIND EXPOSURE: "D"
   APPLICABLE INTERNAL PRESSURE: ±0.18
   COMPONENT AND CLADDING WIND PRESSURE:

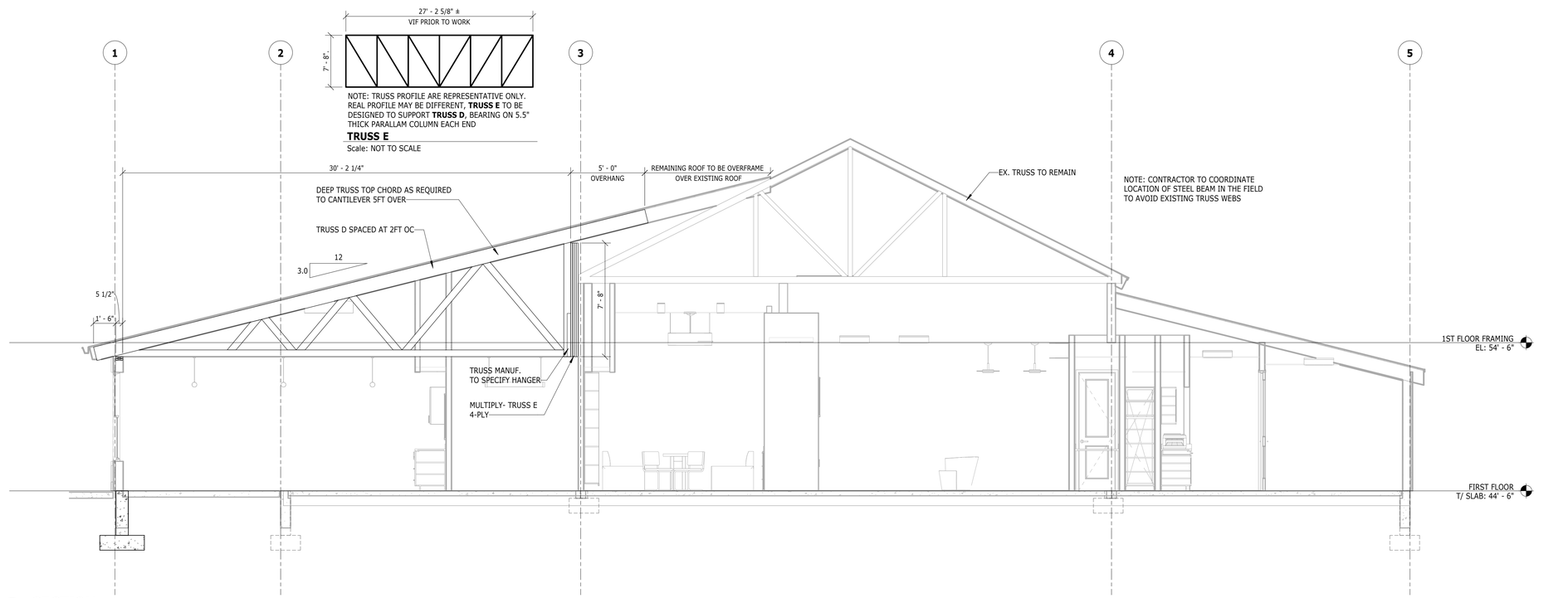
   EARTHQUAKE DESIGN DATA
   IMPORTANCE FACTOR: I_e=1.25
   MAPPED SPECTRAL RESPONSE ACCELERATION: S_s = 0.201, S_1 = 0.053
   SITE CLASS: "D"
   DESIGN SPECTRAL RESPONSE ACCELERATION: S_{DS} = 0.214, S_{D1} = 0.085
   SEISMIC DESIGN CATEGORY: "B"
   BASIC SEISMIC FORCE-RESISTING SYSTEM:
   - HORIZONTAL COMBINATION OF TWO SYSTEMS -
   - A-15. BEARING WALL SYSTEMS WITH LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
   - H. STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS

   SEISMIC RESPONSE COEFFICIENT, C_s: 0.089
   RESPONSE MODIFICATION COEFFICIENT: R = 3 (MINIMUM)
   OVERSTRENGTH FACTOR = 3
   DEFLECTION AMPLIFICATION FACTOR = 3
   ANALYSIS PROCEDURE USED: "EQUIVALENT LATERAL FORCE PROCEDURE"

   SOIL DESIGN LOAD BEARING VALUE
   LOAD BEARING VALUE = 4000PSF (GEOTECHNICAL REPORT SHALL BE PROVIDED PRIOR TO ANY EXCAVATION)
10. THE PLAN AND DETAILS HERE IN ARE BASED ON LIMITED EXISTING DRAWINGS. ANY DISCREPANCIES BETWEEN EXISTING FIELD CONDITIONS AND THE DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

FOUNDATION NOTES

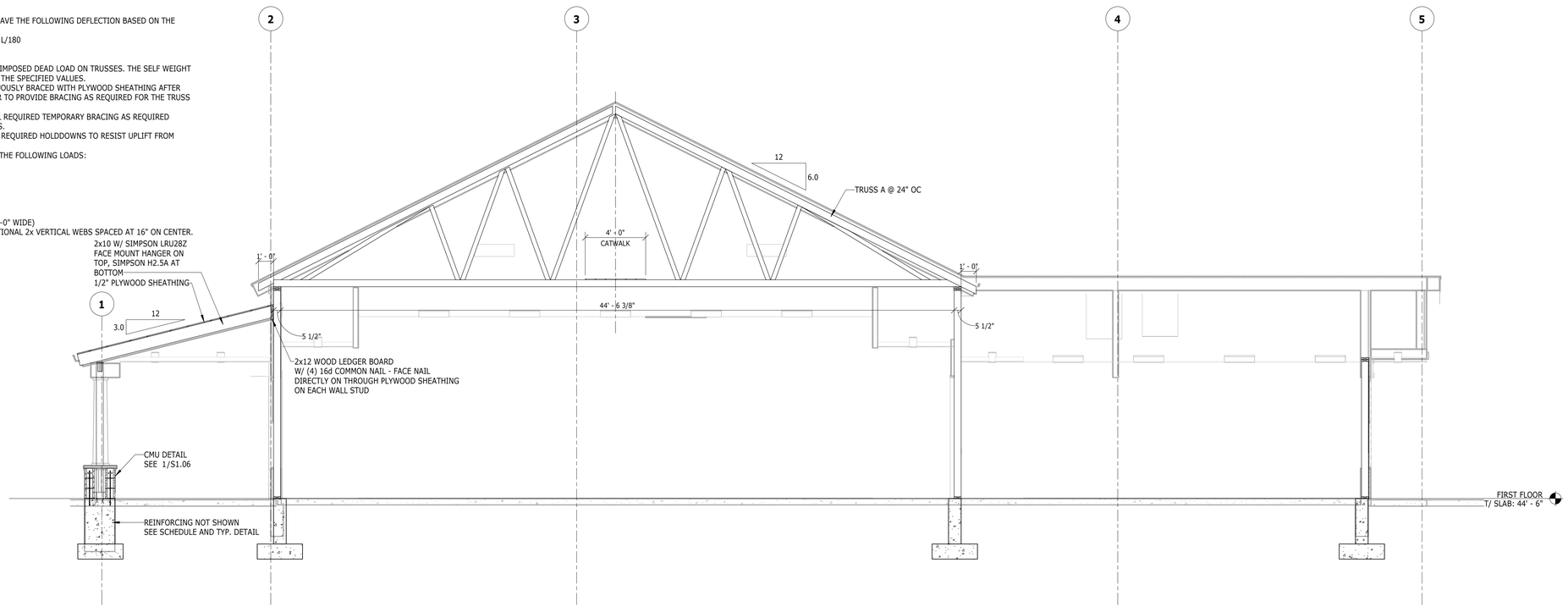
1. FOUNDATIONS DESIGNED FOR 4,000 PSF PRESUMPTIVE STATIC BEARING CAPACITY. GEOTECHNICAL REPORT SHALL BE OBTAINED TO VERIFY THE EXISTING SOIL BEARING PRESSURE.
2. CONTRACTOR SHALL BE FAMILIAR WITH THE SUBSURFACE CONDITIONS AND GEOTECHNICAL REPORT BEFORE COMMENCING EXCAVATION.
3. DROP BOTTOM OF WALLS AND PIERS TO TOP OF FOOTINGS TO OBTAIN FULL EXTENT OF CONTACT, UNLESS OTHERWISE SHOWN.
4. CENTERLINE OF FOOTINGS SHALL BE CENTERLINE OF WALLS, PIERS AND COLUMNS, UNLESS OTHERWISE SHOWN.
5. NO BACKFILLING SHALL BE DONE AGAINST FOUNDATION AND RETAINING WALLS UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS DESIGN STRENGTH. BEFORE BACKFILLING, PROVIDE BRACING FOR WALLS SUSTAINING MORE THAN 3 FEET OF EARTH PRESSURE. THIS BRACING SHALL REMAIN IN PLACE UNTIL ALL SLABS AND BEAMS FRAMING INTO WALL HAVE BEEN PLACED AND SET.
6. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 5 FEET FROM ANY FOUNDATION WALL. IF IT IS NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8 FEET TO THE WALL, THE CONTRACTOR SHALL BE THE SOLE RESPONSIBLE PARTY AND AT THEIR OWN EXPENSE SHALL PROVIDE ADEQUATE SUPPORTS OR BRACE THE WALL



1 S1.04 SECTION
Scale: 1/4" = 1'-0"

PRE-ENGINEERED LUMBER TRUSS NOTES:

A. ALL TRUSSES SHALL BE DESIGNED TO HAVE THE FOLLOWING DEFLECTION BASED ON THE APPLIED LOAD:
   1. TOTAL (LIVE LOAD + DEAD LOAD) = L/180
   2. LIVE LOAD = L/240
      "L" INDICATE THE SPAN OF TRUSS
B. ALL DEAD LOADS SPECIFIED ARE SUPERIMPOSED DEAD LOAD ON TRUSSES. THE SELF WEIGHT OF EACH TRUSSES SHALL BE ADDED TO THE SPECIFIED VALUES.
C. TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED WITH PLYWOOD SHEATHING AFTER INSTALLATION. TRUSS MANUFACRTURER TO PROVIDE BRACING AS REQUIRED FOR THE TRUSS WEBS AND BOTTOM CHORDS.
D. TRUSS MANUFACTURER TO PROVIDE ALL REQUIRED TEMPORARY BRACING AS REQUIRED DURING THE INSTALLATION OF TRUSSES.
E. TRUSS MANUFACTURER TO SPECIFY ALL REQUIRED HOLDDOWNS TO RESIST UPLIFT FROM WIND.
F. ALL TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
   1. TRUSS TOP CHORD:
      a. DEAD LOAD = 20 PSF
      b. LIVE LOAD = 30 PSF SNOW
   2. TRUSS BOTTOM CHORD:
      A. DEAD LOAD = 15PSF
      B. LIVE LOAD = 20 PSF
      C. CATWALK LOCATION = 40PSF (4'-0" WIDE)
G. FOR GABLE END TRUSS, PROVIDE ADDITIONAL 2x VERTICAL WEBS SPACED AT 16" ON CENTER.



2 S1.04 SECTION
Scale: 1/4" = 1'-0"

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LYMES' SENIOR CENTER RENOVATION

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JOB #:	790
DRAWN BY:	IES
CHECKED BY:	IES
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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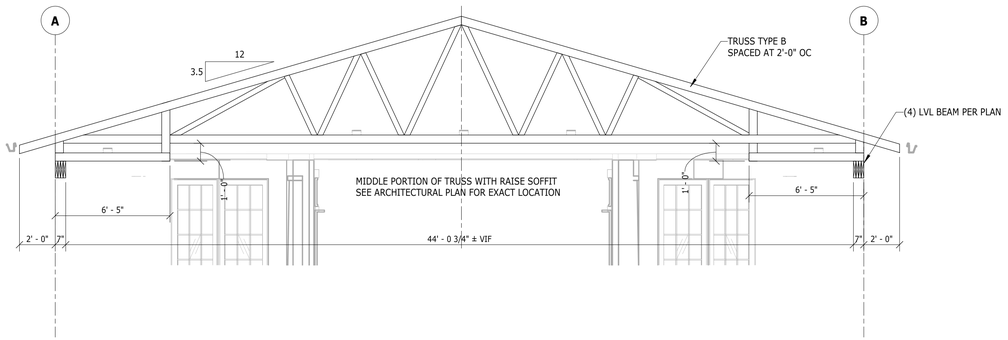
DRAWING NAME: STRUCTURAL SECTIONS

SCALE: As indicated

SHEET: S1.04



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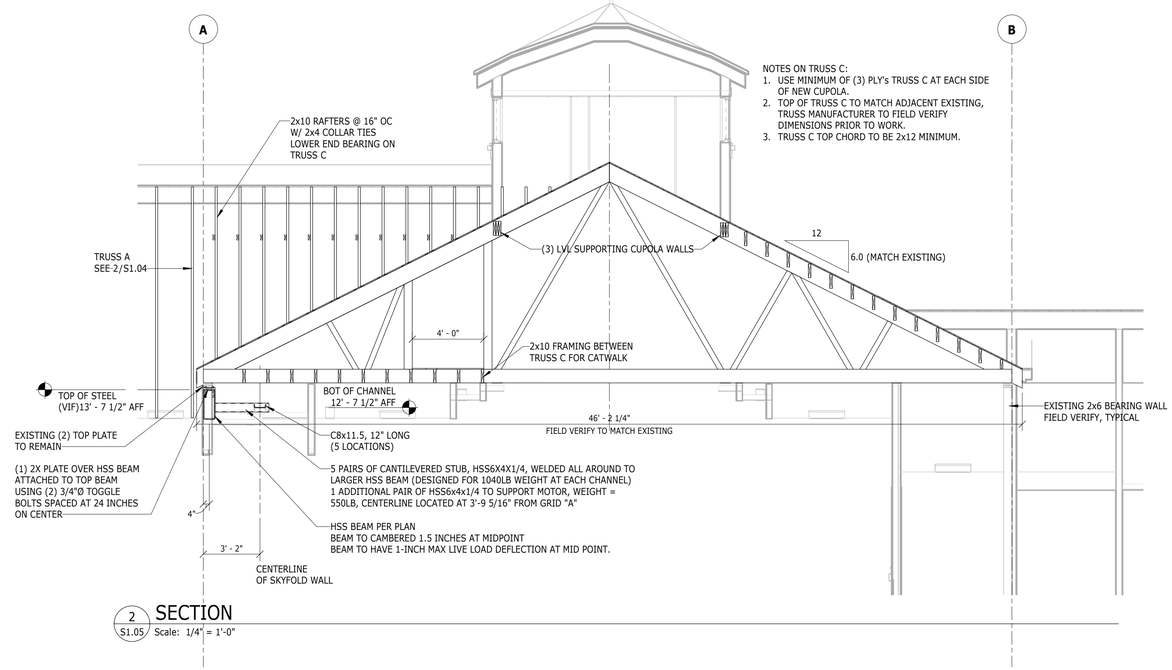

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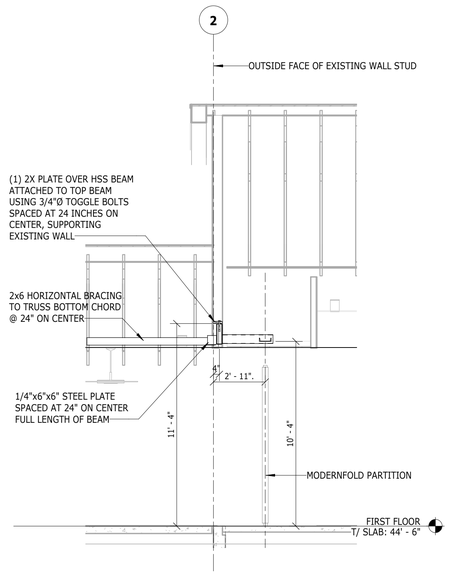

3 S1.05 SECTION
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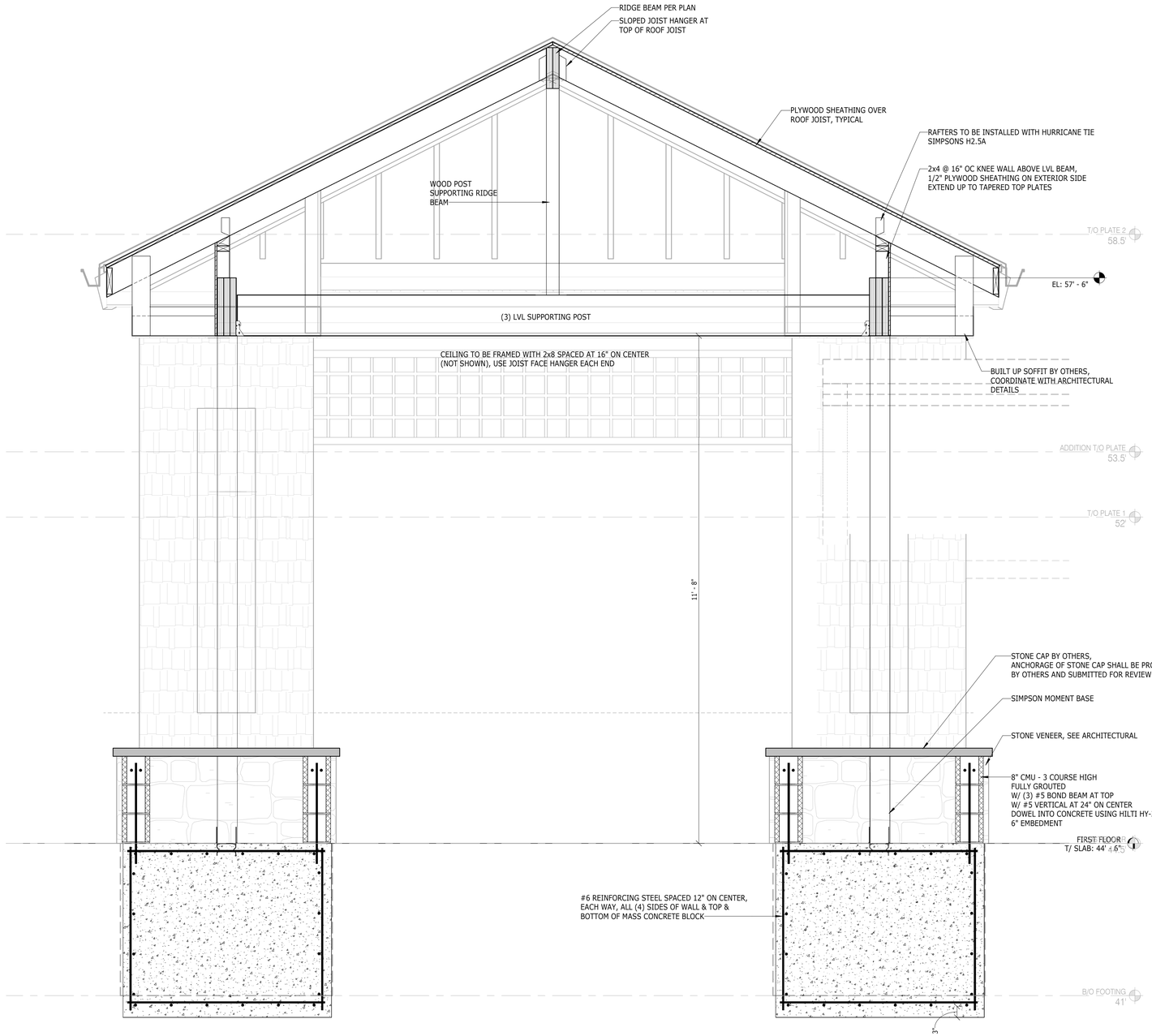
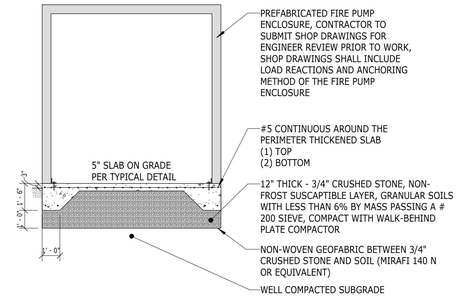


1 S1.06 SECTION
Scale: 3/4" = 1'-0"

NOTE:
1. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION
2. FIRE PUMP ENCLOSURE DO NOT HAVE TO BE PROTECTED FROM PERMANENT FROST DUE TO:
   A. RISK CATEGORY I
   B. LESS THAN 400 SQURE FEET AREA
   C. EAVE HEIGHT LESS THAN 10FT.



2 S1.06 FIRE PUMP ENCLOSURE FOUNDATION
Scale: 1/4" = 1'-0"

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DRAWING NAME: STRUCTURAL SECTIONS AND DETAILS

SCALE: As indicated

SHEET: S1.06

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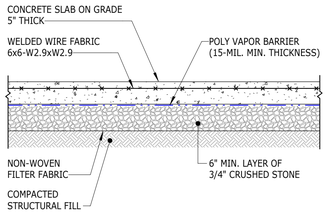
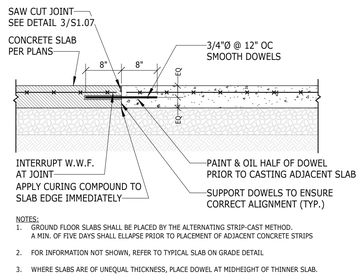
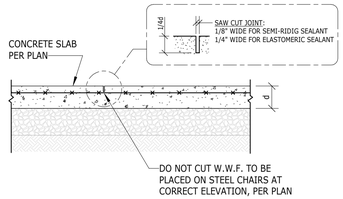


1 TYPICAL SLAB ON GRADE DETAIL
S1.07 Scale: NTS



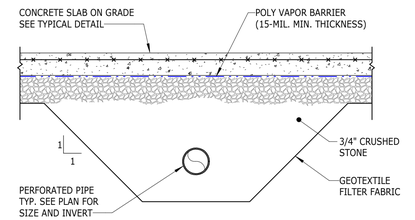
NOTES:
1. GROUND FLOOR SLABS SHALL BE PLACED BY THE ALTERNATING STRIP-CAST METHOD. A MIN. OF FIVE DAYS SHALL ELLAPSE PRIOR TO PLACEMENT OF ADJACENT CONCRETE STRIPS
2. FOR INFORMATION NOT SHOWN, REFER TO TYPICAL SLAB ON GRADE DETAIL
3. WHERE SLABS ARE OF UNEQUAL THICKNESS, PLACE DOWEL AT MIDHEIGHT OF THINNER SLAB.

2 TYPICAL SOG CONSTRUCTION JOINT DETAIL
S1.07 Scale: NTS

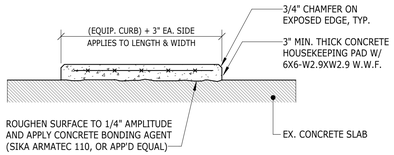


NOTE:
REFER TO SPECIFICATION FOR PROCEDURE & TIMING OF JOINT CUTTING

3 TYPICAL SOG SAW CUT JOINT DETAIL
S1.07 Scale: NTS



4 TYPICAL SUBSLAB DRAIN DETAIL
S1.07 Scale: NTS

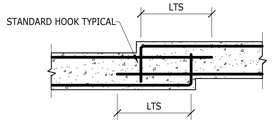


5 TYPICAL HOUSEKEEPING PAD DETAIL
S1.07 Scale: NTS

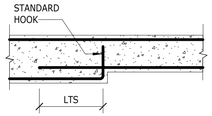
REBAR LAP SPLICE SCHEDULE

BAR SIZE	MINIMUM LAP SPLICE (in)	
	TOP BARS	OTHER BARS
#4	25	19
#5	31	24
#6	37	29
#7	54	42

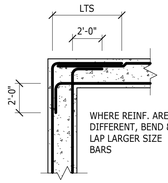
NOTES:
1. LAP SPLICE LENGTHS ARE BASED ON UNCOATED OR ZINC-COATED REINFORCEMENT
2. LAP SPLICE LENGTHS ARE BASED ON NORMAL WEIGHT CONCRETE
3. LAP SPLICE LENGTHS ARE BASED ON 4000 PSI CONCRETE GRADE 60 REINFORCING STEEL
4. ALL REINFORCING SHALL HAVE MINIMUM COVER EQUIVALENT TO ONE BAR DIAMETER (db) AND MINIMUM ON-CENTER SPACING OF 3-BAR DIAMETER (3db) UNLESS NOTED OTHERWISE.
5. REINFORCING STEEL SHALL BE SPLICED AT LOCATIONS WITH LESS THAN 50% TENSILE STRENGTH
6. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12-INCHES OF CONCRETE CAST BELOW THE BARS
7. FOR EPOXY COATED REINFORCING, INCREASE LAP SPLICE LENGTH BY 50%



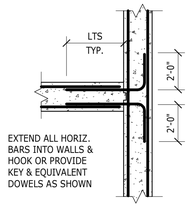
PLAN AT WALL OFFSET



PLAN AT CHANGE IN WALL THICKNESS



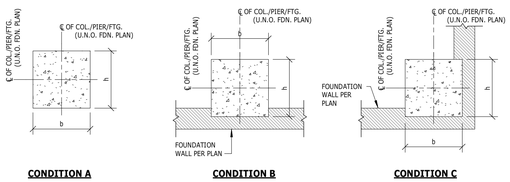
PLAN AT CORNERS



PLAN AT INTERSECTION

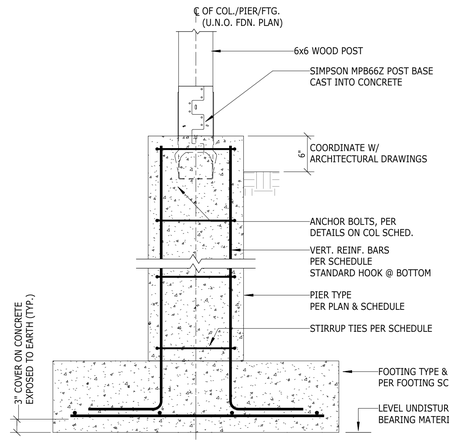
NOTE:
VERTICAL BARS NOT SHOWN FOR CLARITY

6 TYPICAL FOUNDATION WALL PLAN DETAILS
S1.07 Scale: NTS



CONDITION A **CONDITION B** **CONDITION C**

PIER PLANS

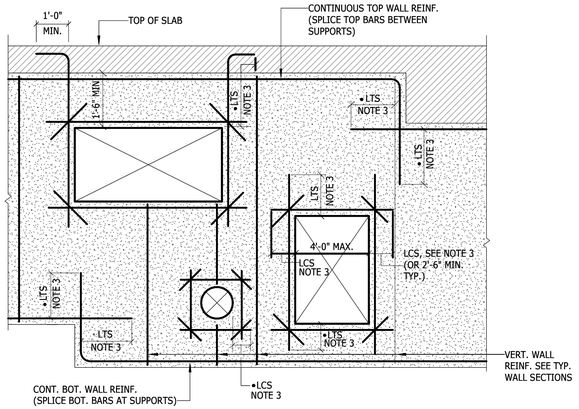


PIER/ FOOTING ELEVATION

PIER REINFORCEMENT SCHEDULE

TYPE	CONDITION	WIDTH "b"	DEPTH "h"	VERT. REINF.	TIES.	TIES. @ TOP
P24x24	PER PLAN	24"	24"	(8) - #6	#4 @ 12" OC	
P24x48	PER PLAN	24"	48"	(12) - #6	#4 @ 12" OC	
P45.5x57.5	PER PLAN	45.5"	57.5"	SEE DETAIL	SEE DETAIL	

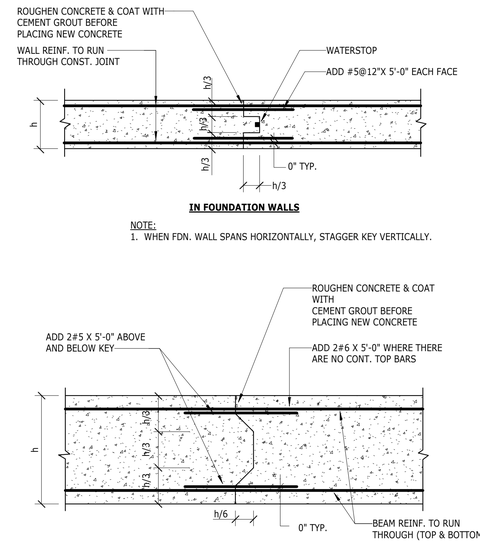
9 TYPICAL PIER DETAIL
S1.07 Scale: NTS



VIEW OF WALL ELEVATION

NOTES:
1. ALL INTERRUPTED BARS IN EACH DIRECTION SHALL BE COMPENSATED BY ADD'L BAR EQUAL TO 1/2 THE INTERRUPTED AREA (OR 2-#7 MIN.) AT EACH SIDE OF OPENING.
2. ALL ADD'L CORNER BARS AT OPNGS ARE 2-#5 x 4'-0" LONG (1 EACH FACE).
3. FOR LENGTH OF SPLICES SEE SCHEDULE OF EMBEDMENT & SPLICE LENGTHS.
4. WHERE FDN. WALL OPENINGS ARE WIDER THAN 4'-0", CONTRACTOR SHALL SUBMIT LOCATIONS & DIMENSIONS TO ENGINEER FOR REDESIGN.

8 FOUNDATION WALL ADD'L. REINF. AT OPENINGS
S1.07 Scale: 1/2" = 1'-0"



IN FOUNDATION WALLS

NOTE:
1. WHEN FDN. WALL SPANS HORIZONTALLY, STAGGER KEY VERTICALLY.

IN CONTINUOUS STRIP FOOTING OR GRADE BEAM

7 TYPICAL FOUNDATION WALL CONST. JOINT DETAIL
S1.07 Scale: NTS

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DRAWING NAME:
CONCRETE TYPICAL DETAILS

SCALE: As indicated

SHEET:
S1.07

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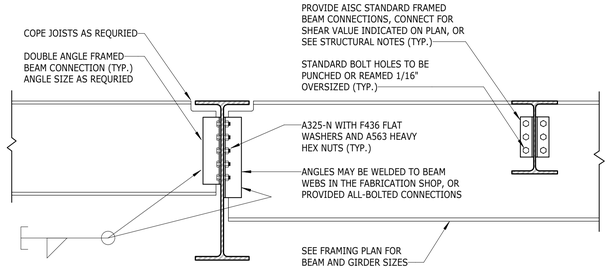
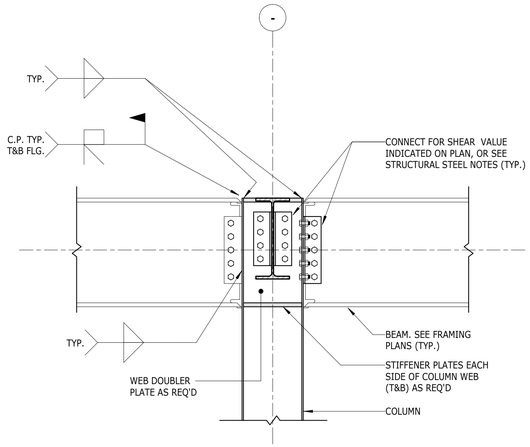


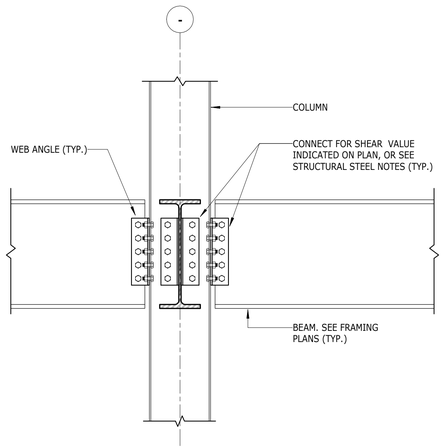
1 S1.08 TYPICAL BEAM TO BEAM SHEAR CONNECTION (not used)

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



2 S1.08 TYPICAL BEAM TO COLUMN MOMENT CONNECTION

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



3 S1.08 TYPICAL BEAM TO COLUMN SHEAR CONNECTION (not used)

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

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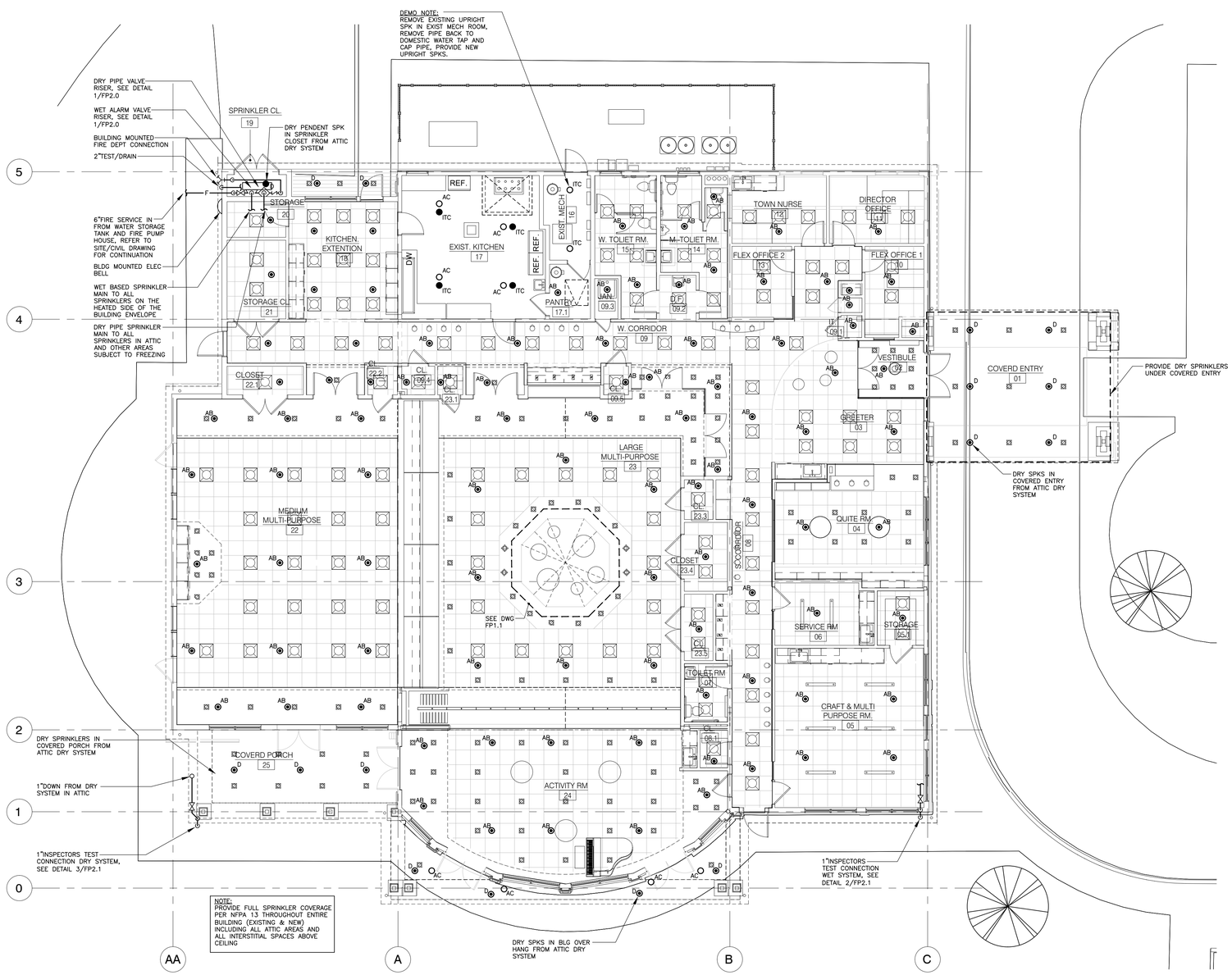
DRAWING NAME: STEEL TYPICAL DETAILS

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

SHEET: S1.08



FIRE PROTECTION FIRST FLOOR PLAN

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

FIRE PROTECTION GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL FIRE PROTECTION DRAWINGS.
2. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW THE GENERAL INTENT OF WORK. SEE DETAILS, RISERS, AND SPECIFICATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE SYSTEM FOR FULL BUILDING COVERAGE. ADDITIONAL SPRINKLERS AND PIPING MAY BE REQUIRED TO ACCOMMODATE CONDITIONS SUCH AS DUCTWORK, STRUCTURE, LIGHTING, ETC. THE CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER INSTALLATION IN CONFORMANCE WITH NFPA 13 LATEST STATE OF CT ADOPTED EDITION, STATE CODES AND THEIR APPLICABLE SUPPLEMENTS, AND THE REQUIREMENTS OF THE OFFICE OF THE FIRE MARSHAL.
3. THE DRAWINGS INDICATE A SUGGESTED SPRINKLER HEAD LAYOUT AND THAT EACH AREA IS COVERED BY SPRINKLER PROTECTION AS REQUIRED PER CODE. THE SPRINKLER QUANTITIES SHALL NOT BE COUNTED, AS A TAKE OFF OR AS EXACT LOCATIONS. REFER TO NFPA 13 FOR EXACT SPACING, DENSITY, AND LOCATION REQUIREMENTS. CONTRACTOR SHALL INSTALL QUICK RESPONSE TYPE SPRINKLER IN ALL LIGHT HAZARD CLASSIFICATION AREAS OF THE BUILDING.
4. THE FIRE PROTECTION CONTRACTOR SHALL REVIEW THE ELECTRICAL DIVISION DRAWINGS AND COORDINATE THE FIRE PROTECTION WORK WITH NEW FIRE ALARM SYSTEM.
5. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE FIRE PROTECTION WORK WITH LOCATIONS OF EXISTING HEAT PRODUCING EQUIPMENT AND DUCTWORK REQUIRING SPRINKLER PROTECTION BELOW IT.
6. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE PIPE EXPANSION JOINTS ALL BUILDING EXPANSION JOINT LOCATIONS AND EXPANSION LOOPS AT ALL BUILDING EXPANSION/SEISMIC JOINT LOCATIONS AS REQUIRED PER NFPA 13 AND BUILDING CODES. SEISMIC SEPARATION ASSEMBLIES SHALL BE INSTALLED WHERE SPRINKLER PIPING, REGARDLESS OF SIZE, CROSSES BUILDING SEISMIC SEPARATION JOINTS ABOVE GROUND LEVEL IN ACCORDANCE WITH NFPA 13. PROVIDE U.L. LISTED SWING JOINT ASSEMBLIES ("METRAFLEX" FIRELOOP, OR EQUAL) WHERE SPRINKLER PIPING CROSSES BUILDING EXPANSION JOINTS. ALL PIPE HANGERS AND SUPPORTS SHALL BE PROVIDED WITH SEISMIC RESTRAINT BRACING PER NFPA 13, STATE AND LOCAL REQUIREMENTS.
7. THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW PUMPHOUSE, SEE PUMPHOUSE SPECIFICATIONS ON DRAWING FP3.1.
8. BEFORE SUBMITTING A BID, THE FIRE PROTECTION CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS AND THAT OF THE OTHER TRADES (STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, SITE, ETC.) ALL NEW EQUIPMENT AND SYSTEMS SHALL BE FULLY OPERATIONAL UNDER THIS CONTRACT BEFORE THE JOB IS CONSIDERED COMPLETE. THE FIRE PROTECTION CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS, OR ERRORS MADE AS A RESULT OF THE CONTRACTOR'S FAILURE TO BECOME FULLY FAMILIAR WITH THE CONDITIONS AND THE CONTRACT DOCUMENTS OF ALL TRADES.
9. ALL PIPE SIZES SHOWN ON THE CONTRACT DOCUMENTS ARE ADEQUATELY SIZED FOR THE NEW SPRINKLER SYSTEM. THE PIPE SIZES SHOWN ARE SUBJECT TO CHANGE UPON THE COMPLETION OF THE FIRE PROTECTION CONTRACTOR'S HYDRAULIC CALCULATIONS.
10. THE CONTRACTOR SHALL MAKE PROVISIONS FOR DRAINING THE ENTIRE SYSTEM PER NFPA 13.
11. THE CONTRACTOR SHALL PROVIDE SPRINKLER LAYOUT SHOP DRAWINGS, SEISMIC BRACING CALCULATION AND HYDRAULIC CALCULATIONS, SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CT. THESE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO AND APPROVED BY THE LOCAL FIRE MARSHAL AND OWNER'S INSURANCE CARRIER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE FIRE MARSHAL'S AND OWNER'S INSURANCE CARRIER'S APPROVALS WITH THEIR SHOP DRAWING SUBMITTAL.
12. CONTRACTOR SHALL COORDINATE ALL SPRINKLER PIPE ROUTING WITH ALL CONDITIONS INCLUDING BUT NOT LIMITED TO STRUCTURE, WALLS, EQUIPMENT, ELECTRICAL CONDUITS, ETC.....
13. FLOW AND TAMPER SWITCHES SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR; ALL WIRING SHALL BE PROVIDED BY ELECTRICAL DIVISION. ALL WORK SHALL BE COORDINATED BETWEEN THE TWO TRADES IN THE FIELD.
14. THE FIRE PROTECTION DESIGN IS BASED ON MANUFACTURERS AND MODEL NUMBERS LISTED HEREIN. THE FIRE PROTECTION CONTRACTOR MAY AT HIS/HER DISCRETION CHOOSE ANOTHER OF THE APPROVED EQUALS LISTED IN THE APPROPRIATE SPECIFICATION SECTIONS AND CONTRACT DOCUMENTS. HOWEVER, BY DOING SO, THE FIRE PROTECTION CONTRACTOR ALSO UNDERTAKES THE RESPONSIBILITY OF COORDINATION WITH EXISTING CONDITIONS, NOTIFICATION OF OTHER TRADES AND ADDITIONAL COST INCURRED BY OTHER TRADES REQUIRED AS A RESULT OF THE SUBSTITUTION.

FIRE PROTECTION CONSTRUCTION PROCEDURES

1. IT IS SOLELY THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF SHOP DRAWINGS FROM THE OWNER'S INSURANCE CARRIER AND ALL LOCAL AUTHORITIES HAVING JURISDICTION. ANY INSTALLATION OF THE SPRINKLER SYSTEM WITHOUT APPROVED PLANS SHALL BE AT THE SOLE RISK AND EXPENSE OF THE CONTRACTOR.
2. THE FIRE PROTECTION CONTRACTOR MUST CONTACT THE OWNER'S CONSTRUCTION COORDINATOR AND REQUEST THE SPRINKLER MAIN TO BE ISOLATED AND/OR DRAINED. THIS PROCEDURE MUST BE ADHERED TO WHEN PRESSURE TESTING AND/OR PLACING SYSTEM IN OR OUT OF SERVICE.
3. THE OWNER'S CONSTRUCTION COORDINATOR AND LOCAL AUTHORITIES HAVING JURISDICTION SHALL WITNESS ALL SYSTEM PRESSURE TESTS WITH 24 HOURS NOTICE FROM THE CONTRACTOR MAKING THE TESTS.
4. ALL WORK SHALL MEET THE REQUIREMENTS OF NFPA STANDARDS. INSTALLATION PROCEDURES SHALL COMPLY WITH THE SAFETY RULES OF OSHA AND THE STATE OF CT.
5. THE FIRE PROTECTION CONTRACTOR MUST PROVIDE A FIRE WATCH WHENEVER ANY WELDING IS DONE WITHIN THE AREA BEING WORKED, DURING THE WELDING OPERATION, AND FOR ONE HOUR AFTER WELDING IS COMPLETED.
6. NO STOCK OF FURNISHINGS SHALL BE ALLOWED IN THE AREAS BEING WORKED UNTIL THE ENTIRE SYSTEM IS COMPLETED IN ACCORDANCE WITH THE ABOVE NOTES AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
7. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A MATERIAL TEST AND CERTIFICATION FORM TO ALL REQUIRED AUTHORITIES HAVING JURISDICTION AND THE OWNER'S INSURANCE CARRIER SO AS TO CERTIFY THAT THE SPRINKLER SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, FEDERAL, STATE, AND LOCAL CODES AND PROCEDURES.
8. UPON COMPLETION OF SYSTEM INSTALLATION, THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A HYDROSTATIC SYSTEM TEST ON ALL PIPING AND ATTACHED APPURTENANCES IN THE PRESENCE OF THE LOCAL FIRE MARSHAL. THE SYSTEM SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. LOSS SHALL BE DETERMINED BY A DROP IN GAUGE PRESSURE OR VISUAL LEAKAGE. THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE SYSTEM OR PORTION BEING TESTED. ALL TESTING THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 20 AND NFPA 25.

SPRINKLER LEGEND

⊙	CONCEALED WET TYPE SPRINKLER IN CEILING
⊙ D	CONCEALED DRY TYPE SPRINKLER IN CEILING
⊙ AB	CONCEALED WET SPRINKLER IN CEILING, UPRIGHT SPRINKLER ABOVE CEILING, SEE DETAIL 7/FP2.1
● ITC	CHROME PENDENT WET SPRINKLER, INTERMEDIATE TEMPERATURE CLASSIFICATION
● D	DRY PENDENT SPRINKLER
○	UPRIGHT SPRINKLER
○ ITC	UPRIGHT SPRINKLER, INTERMEDIATE TEMPERATURE CLASSIFICATION
○ AC	UPRIGHT SPRINKLER ABOVE CEILING

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STAMP: CM REFERENCE - NOT FOR CONSTRUCTION

DRAWING NAME: FIRE PROTECTION FLOOR PLAN

SCALE: As indicated

SHEET: FP1.0

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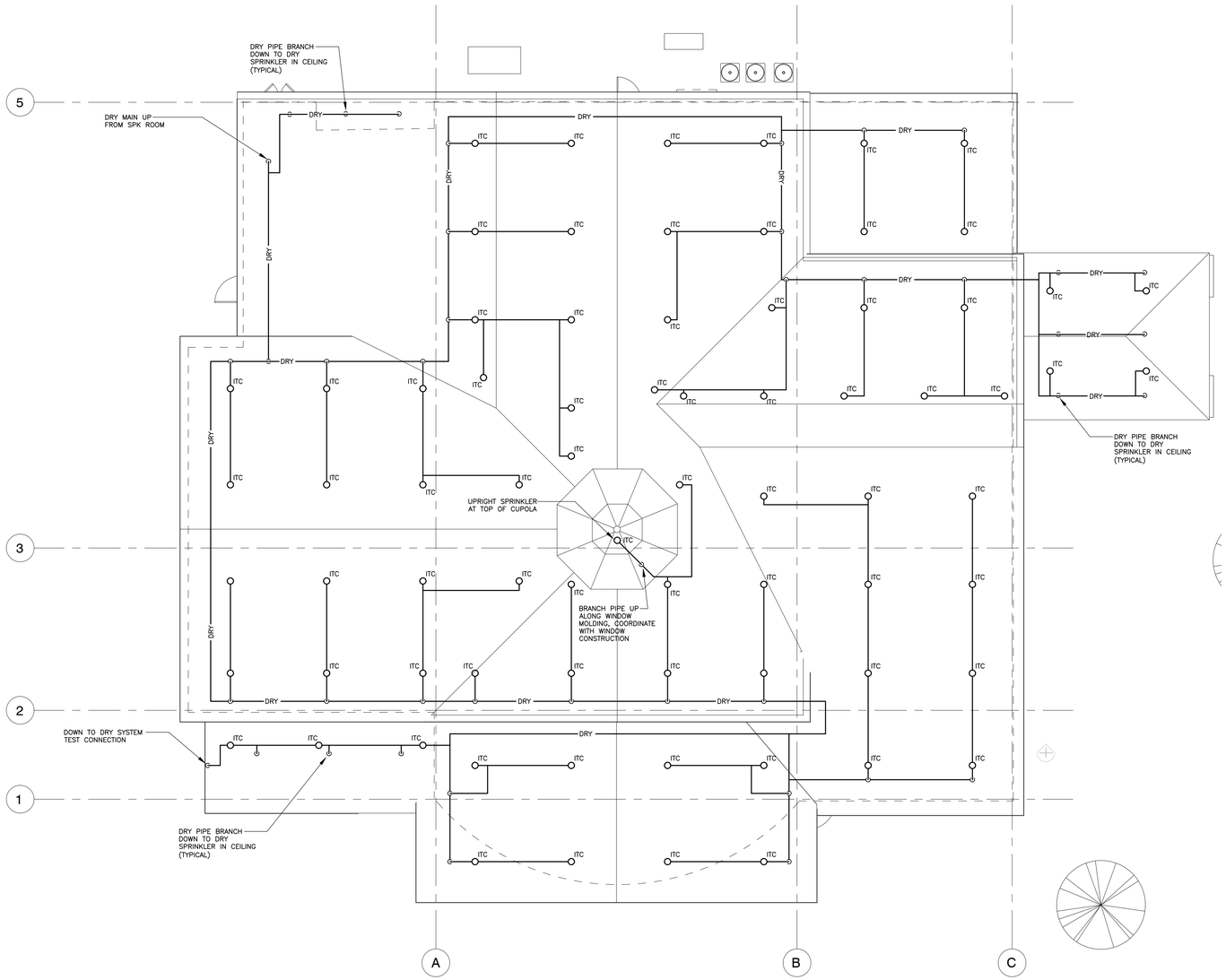

FIRE PROTECTION ATTIC PLAN
SCALE: 1/8"= 1'-0"

N

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SHEET: FP1.1

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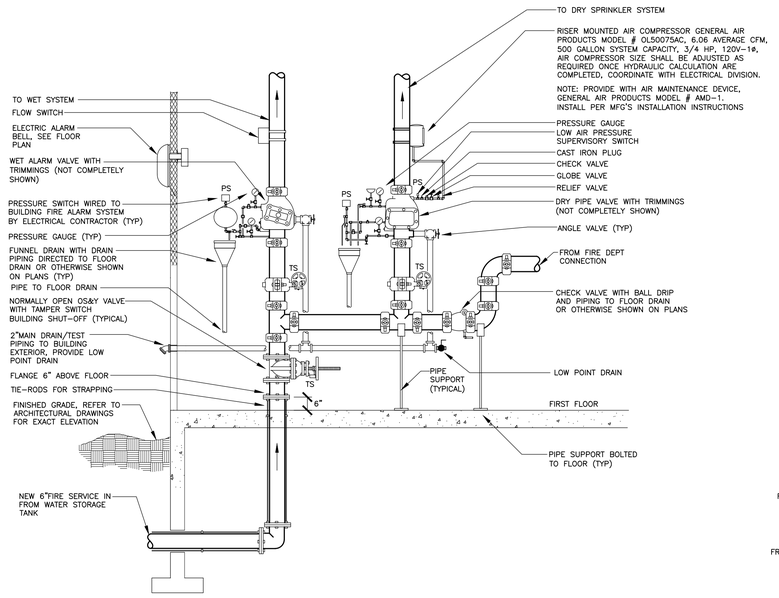
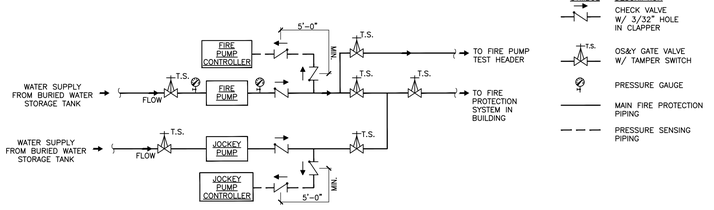


1 FIRE PROTECTION SERVICE DETAIL - WET AND DRY PIPE SYSTEM
N.T.S.

SPRINKLER DESIGN CRITERIA

1. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPE, FITTINGS, EQUIPMENT, ETC.. FOR A FULLY NFPA 13 COMPLIANT SYSTEM.
2. ALL SPRINKLERS INSTALLED IN A LIGHT HAZARD CLASSIFICATION SHALL BE QUICK RESPONSE TYPE.
3. CONTRACTOR SHALL BASE HIS HYDRAULIC CALCULATIONS ON NEW FIRE PUMP DATA.
4. PROVIDE 10% SAFETY FACTOR.
5. MAXIMUM VELOCITY SHALL BE 18 FPS.
6. INSTALLATION OF SPRINKLERS SHALL BE AS FOLLOWS:

AREA	CLASSIFICATION	DENSITY/SQ.FT.
STORAGE ROOMS	ORDINARY HAZARD GROUP II	.20/1500
MECHANICAL SPACES	ORDINARY HAZARD GROUP I	.15/1500
KITCHEN	ORDINARY HAZARD GROUP II	.20/1500
ATTIC SPACES	LIGHT HAZARD	.10/1500
ALL OTHER AREAS	LIGHT HAZARD	.10/1500



2 FIRE PUMP INSTALLATION WITH PRESSURE SENSING PIPING DIAGRAM
N.T.S.

FIRE PROTECTION NOTES

1. PENTAIR FIRE PUMP, VERTICAL TURBINE DIESEL DRIVEN FIRE PUMP MODEL # F11FGM7000F00 6x16.5, 500 GPM AT 100 PSI, 54 HP.
2. JOCKEY PUMP PENTAIR "STA-RITE" HS SERIES, MODEL # 5 GPM AT 110 PSI, .75HP, 208V/3ø. LOCATED IN WATER STORAGE TANK.
3. STROBE WITH ALARM (PUMP RUNNING).
4. CHECK VALVE
5. DISCHARGE UNDER FOUNDATION.
6. 5"STORZ FIRE DEPARTMENT CONNECTION WITH CAP AND CHAIN AND NST. (COORDINATE TYPE WITH LOCAL FIRE DEPT)
7. FIRE PUMP CONTROL PANEL
8. JOCKEY PUMP CONTROL PANEL.
9. ELECTRIC UNIT HEATER.
10. FIRE PUMP TEST HEADER.
11. KNOX BOX, COORDINATE WITH LOCAL FIRE OFFICIALS
12. UPRIGHT SPRINKLER
13. SPRINKLER CONTROL ASSEMBLY, SEE DETAIL 1/FP2.1
14. ELECTRIC BELL
15. INDICATING VALVE WITH TAMPER SWITCH (TYPICAL)
16. INSPECTORS TEST CONNECTION, SEE DETAIL 2/FP2.1
17. 12" OPENING FOR JOCKEY PUMP & TANK LEVER CONTROLS
18. FUEL OIL TANK - DOUBLE WALL, 119 GALLONS.
19. MUFFLER - ON ROOF

FIRE PROTECTION PIPING LEGEND

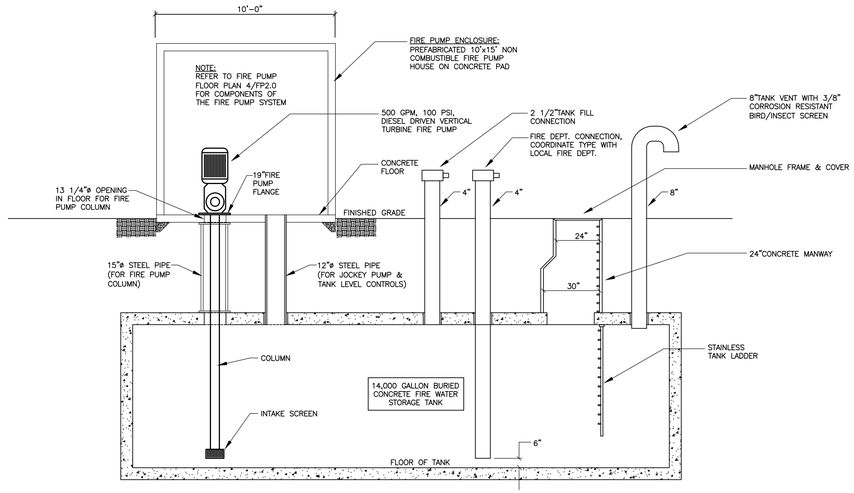
	FLOW DIRECTION
F	FIRE LINE
F	FIRE SERVICE BURIED
SPK	WET SPRINKLER SYSTEM
D	DRAIN PIPING
DRY	DRY PIPE SPRINKLER SYSTEM
FPTH	FIRE PUMP TEST HEADER PIPING
FDC	FIRE DEPARTMENT CONNECTION SUPPLY
G	PIPE DOWN
O	PIPE UP
D	PIPE DROP
I	FLUSHING CONNECTION
E	PLUGGED OR CAPPED PIPE

FIRE PROTECTION SYMBOL LEGEND

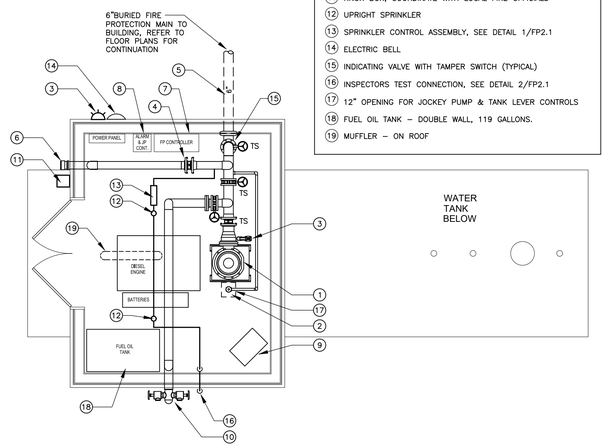
	WET ALARM CHECK VALVE RISER ASSEMBLY
	DRY PIPE VALVE RISER ASSEMBLY
F.S.	SPRINKLER FLOW SWITCH
P.S.	PRESSURE SWITCH
LPS	LOW PRESSURE SWITCH
	ANGLE HOSE VALVE
	VALVE IN PIPE RISER
	OUTSIDE SCREW & YOKE GATE VALVE (SUPERVISED)(OS&Y)
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	POST INDICATOR VALVE (SUPERVISED)
	POST MOUNTED FIRE DEPARTMENT CONNECTION (SIAMESE)
	WALL MOUNTED FIRE DEPARTMENT CONNECTION (SIAMESE)
ST	STORZ FIRE DEPARTMENT CONNECTION W/ CAP & CHAIN
OR	FIRE PUMP TEST HEADER
	PUMP
	PRESSURE GAUGE
	ELECTRIC ALARM BELL
	THRUST BLOCK
FPC	FIRE PUMP CONTROLLER
JPC	JOCKEY PUMP CONTROLLER
ZCV	ZONE CONTROL VALVE ASSEMBLY (ASSEMBLY CONSISTS OF: BUTTERFLY VALVE W/TAMPER, FLOW SWITCH, AND SELF-CONTAINED TEST AND DRAIN UNIT)
	CURB GATE VALVE & BOX
T&D	TEST & DRAIN ASSEMBLY

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
ATS	AUTOMATIC TRANSFER SWITCH (FIRE PUMP)
EXT	EXTENDED COVERAGE (SPRINKLER HEAD)
ELEV	ELEVATION
FP	FIRE PUMP
FS	FLOW SWITCH
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FPC	FIRE PUMP CONTROLLER
FPTH	FIRE PUMP TEST HEADER
G	CAGE GUARD (SPRINKLER)
GPM	GALLONS PER MINUTE
HTC	HIGH TEMPERATURE CLASSIFICATION (SPRINKLER)
ITC	INTERMEDIATE TEMPERATURE CLASSIFICATION (SPRINKLER)
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
LPS	LOW PRESSURE SWITCH
NIC	NOT IN CONTRACT
PIV	POST INDICATOR VALVE
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
SS	SUPERVISORY SWITCH
TS	TAMPER SWITCH
TYP	TYPICAL
VIF	VERIFY IN FIELD



3 SECTION AT FIRE PUMP HOUSE
N.T.S.



4 DIESEL FIRE PUMP PLAN
1/4" = 1'-0"

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JOB #:	790
DRAWN BY:	
CHECKED BY:	
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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STAMP: CM REFERENCE - NOT FOR CONSTRUCTION

DRAWING NAME: FIRE PROTECTION NOTES, LEGENDS AND DETAILS

SCALE: As indicated

SHEET: FP2.0

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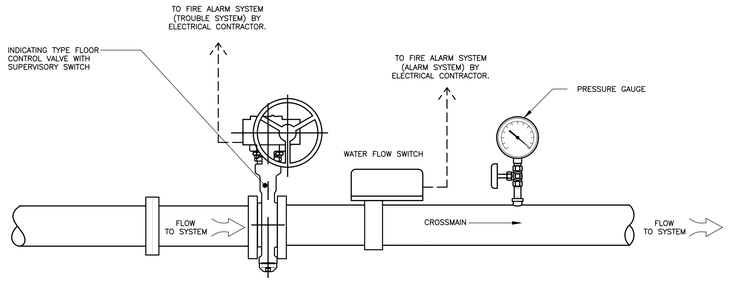
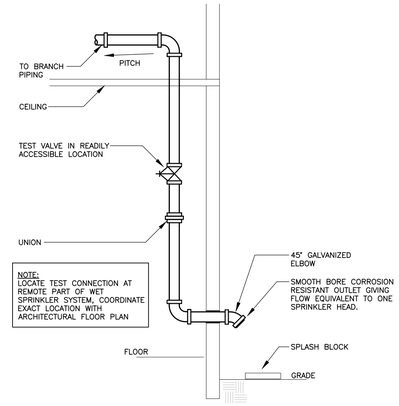


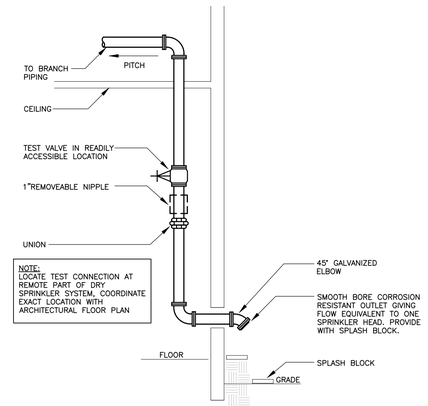
NOTES:

1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, LATEST EDITION, STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES.

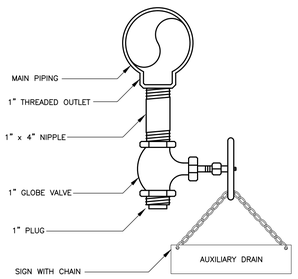
1 FIRE PROTECTION SYSTEM - ZONE CONTROL VALVE PIPING DETAIL
N.T.S.



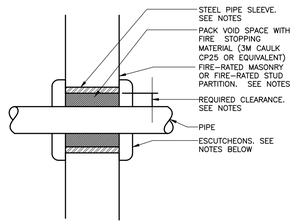
2 WET PIPE SYSTEM TEST CONNECTION DETAIL
N.T.S.



3 DRY PIPE SYSTEM TEST CONNECTION DETAIL
N.T.S.



4 TYPICAL AUXILIARY DRAIN DETAIL
N.T.S.



NOTES:

1. PIPE SLEEVES THROUGH RATED WALLS
   A. PIPE SLEEVES THROUGH FIRE-RATED MASONRY PARTITIONS OR FOUNDATION WALLS SHALL BE SCHEDULE 80 BLACK STEEL WITH MAXIMUM OF 1/2" CLEARANCE BETWEEN SLEEVE AND PIPE. SLEEVE SHALL BE EQUAL IN LENGTH TO DEPTH OF PARTITION OR WALL.
   B. PIPE SLEEVES THROUGH FIRE-RATED STUD PARTITIONS SHALL BE #18 GAGE GALVANIZED STEEL WITH MAXIMUM OF 1" CLEARANCE BETWEEN SLEEVE AND PIPE. SLEEVE SHALL BE EQUAL IN LENGTH TO DEPTH OF PARTITION.
2. ESCUTCHEONS
   A. ESCUTCHEONS IN FINISHED SPACES SHALL BE ANODIZED ALUMINUM OR CHROME-PLATED BRASS.
   B. ESCUTCHEONS IN UNFINISHED SPACES SHALL BE PLAIN BRASS, ALUMINUM, GALVANIZED STEEL OR CAST IRON.
   C. ESCUTCHEONS SHALL BE HELD IN PLACE BY INTERNAL SPRING TENSION OR SET SCREW.

5 FIRE RATED WALL PENETRATION DETAIL
N.T.S.

HYDRAULIC-SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM

LOCATION

NO. OF SPRINKLERS

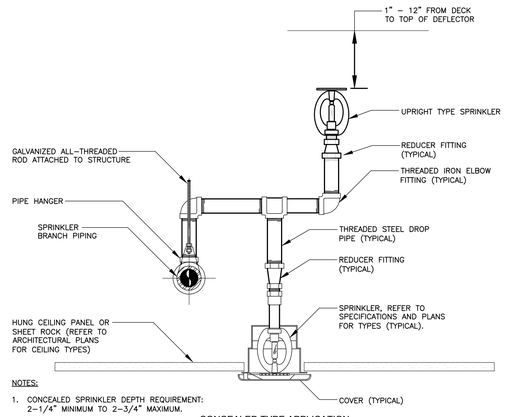
BASIS OF DESIGN
1. DENSITY — GPM SQ FT
2. DESIGNED AREA OF DISCHARGE — SQ FT

SYSTEM DEMAND
1. GPM DISCHARGE — GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER — PSI

HYDRAULIC SIGN NOTES:

1. THE FIRE PROTECTION CONTRACTOR SHALL IDENTIFY EACH HYDRAULIC DESIGNED SPRINKLER SYSTEM WITH A PERMANENTLY MARKED, WATERPROOF METAL SIGN SECURED WITH CORROSION-RESISTANT WIRE, CHAIN OR OTHER APPROVED MEANS. SUCH SIGNAGE SHALL BE PLACED AT EACH ALARM VALVE SUPPLYING THE CORRESPONDING HYDRAULICALLY DESIGNED AREA. THE SIGN SHALL INCLUDE THE FOLLOWING INFORMATION:
   A. LOCATION OF DESIGN AREA OR AREAS.
   B. DISCHARGE DENSITIES OVER THE DESIGN AREA OR AREAS.
   C. REQUIRED FLOW AND RESIDUAL PRESSURE DEMAND AT BASE OF RISER.
   D. OCCUPANCY CLASSIFICATION OR COMMODITY CLASSIFICATION AND MAXIMUM PERMITTED STORAGE HEIGHT AND CONFIGURATION.
   E. HOSE STREAM DEMAND INCLUDED IN ADDITION TO THE SPRINKLER DEMAND.

6 HYDRAULIC SYSTEM SIGNAGE DETAIL
SCALE: N.T.S.

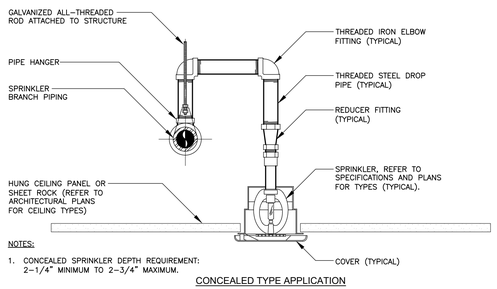


NOTES:

1. CONCEALED SPRINKLER DEPTH REQUIREMENT: 2-1/4" MINIMUM TO 2-3/4" MAXIMUM.

CONCEALED TYPE APPLICATION

7 TYPICAL SPRINKLER ABOVE AND BELOW CEILING DETAIL
SCALE: N.T.S.

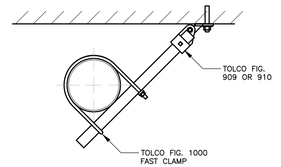


NOTES:

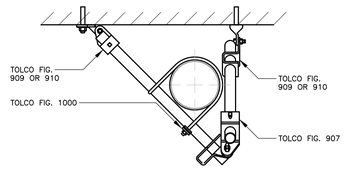
1. CONCEALED SPRINKLER DEPTH REQUIREMENT: 2-1/4" MINIMUM TO 2-3/4" MAXIMUM.

CONCEALED TYPE APPLICATION

8 TYPICAL SPRINKLER ARM OVER INSTALLATION DETAIL
SCALE: N.T.S.

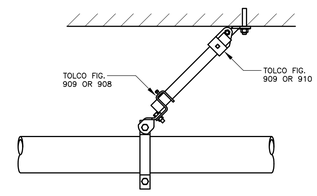


LATERAL (TRANSVERSE) BRACE



LONGITUDINAL/4 WAY BRACE
(OPTIONAL METHOD)

PIPE SIZE	STEEL SIZE	BOLT SIZE	TORQUE VALUE (FOOT POUNDS)
UP TO 1-1/2"	1/8"x1-1/8"	3/8"	19
2" TO 5"	1/4"x1-1/4"	3/8"	19
6"	3/8"x1-1/2"	1/2"	50



PIPE CLAMP (TOLCO FIG. 4A) USED IN LONGITUDINAL BRACE
(OPTIONAL METHOD)

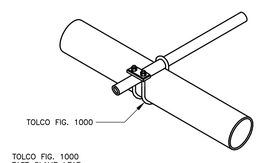
EARTHQUAKE BRACE AND SURGE RESTRAINT COMPONENTS

TOLCO FIG. 1000 FAST CLAMPS UNDERWRITERS LABORATORIES LISTED, MUST BE USED WITH TOLCO U.L. LISTED ATTACHMENTS FIG. 909 OR 910 SWIVEL FITTINGS OR FIG. 975 OR FIG. 908 STRAIGHT FITTINGS

NOTE:
INSTALL ALL BRACES SHOWN ON THIS PAGE WITHIN 4" OF HANGERS

FOR ALL SIZE PIPE UP TO 6"

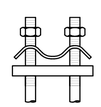
PIPE SIZE	BOLT SIZE	DIM. A
UP TO 1-1/2"	1/2"	1/8"
2" TO 6"	3/4"	1/4"



TOLCO FIG. 1000 FAST CLAMP LEAF SPRING SHOWN FLAT

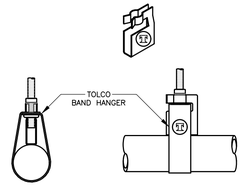
NOTE:
TO ASSURE MINIMUM REQUIRED TORQUE-TIGHTEN HEX NUTS UNTIL LEAF SPRING IS FLAT

LATERAL (TRANSVERSE) BRACE



LEAF SPRING CONFIGURATION AND ORIENTATION BEFORE NUTS ARE TIGHTENED

TOLCO FIG. 25 SURGE RESTRAINER
TYPE 1 – FOR USE WITH 1" AND 1 1/4" PIPE AND HANGER.
TYPE 2 – FOR USE WITH 1 1/2" AND 2" PIPE AND HANGER.



TOLCO FIG. 25 SURGE RESTRAINER WITH TOLCO BAND HANGERS FIG. 200, 2NFPA, TO RESTRICT UPWARD MOVEMENT OF PIPE WITHIN THE HANGER AS IT OCCURS DURING SPRINKLER HEAD ACTIVITATION OR EARTHQUAKE TYPE ACTIVITY.

9 PIPES - BRACING, ATTACHMENT DETAIL
SCALE: N.T.S.

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ISSUE DATE: JULY 19, 2023

Revisions

No.	Date	Description

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STAMP: CM REFERENCE - NOT FOR CONSTRUCTION

DRAWING NAME: FIRE PROTECTION DETAILS

SCALE: As indicated

SHEET: FP2.1

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FIRE PROTECTION SPECIFICATIONS

TECHNICAL REQUIREMENTS

THESE SPECIFICATIONS CALL OUT CERTAIN DUTIES OF THE CONTRACTOR AND HIS SUBCONTRACTOR. THEY ARE NOT INTENDED AS SUBCONTRACT DOCUMENTS, NOR ARE THEY INTENDED AS A MATERIAL LIST OF ITEMS REQUIRED BY THE CONTRACT.

PROVIDE ALL ITEMS AND WORK CALLED FOR IN THIS DIVISION OF THE SPECIFICATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS INCLUDES ALL INCIDENTALS, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, SUPERVISION LABOR, CONSUMABLE ITEMS, FEES, LICENSES, ETC., NECESSARY TO PROVIDE COMPLETE SYSTEMS. PERFORM START UP AND CHECK OUT EACH ITEM AND SYSTEM TO PROVIDE FULLY OPERABLE SYSTEMS.

INTENT OF DRAWINGS

PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC, AND INDICATES GENERAL ARRANGEMENT OF WORK. LOCATE SPRINKLER HEADS AS INDICATED ON DRAWINGS. CONNECT TOO EXISTING, OR RUN NEW PIPING, AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH NFPA 13.

DO NOT SCALE DRAWINGS. CHECK EXISTING SPACE CONDITIONS AT THE JOB SITE.

CODES AND STANDARDS – CONNECTICUT

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL AND STATE ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, LATEST EDITIONS.

SHOULD THE SPRINKLER SUBCONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES, AS APPROVED BY THE ARCHITECT/OWNER.

APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, AND THE APPLICABLE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND STANDARDS, WITHOUT LIMITING THE NUMBER, AS FOLLOWS:

CSBC – CONNECTICUT STATE BUILDING CODE (2022 EDITION).

CSFSC – CONNECTICUT STATE FIRE SAFETY CODE (2022 EDITION).

CSFPC – CONNECTICUT STATE FIRE PREVENTION CODE (2022 EDITION).

IBC – INTERNATIONAL BUILDING CODE (2021 EDITION).

NFPA 1 – FIRE CODE (2021 EDITION)

NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (2019 EDITION).

NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, (2019 EDITION).

NFPA 70: NATIONAL ELECTRICAL CODE, (2020 EDITION WITH LATEST CONNECTICUT AMENDMENTS AND SUPPLEMENTS).

NFPA 101 – LIFE SAFETY CODE (2021 EDITION).

PIPE HANGERS AND SUPPORTS: MSS SP–58.

OWNER'S INSURANCE COMPANY.

AWWA STANDARDS.

U.L. COMPLIANCE.

COMPLY WITH REQUIREMENTS OF LOCAL UTILITY COMPANY.

COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS. COMPLY WITH ALL FEDERAL, STATE, CITY, INSURANCE UNDERWRITERS AND OTHER APPLICABLE CODES AND ORDINANCES. IF ANY CONFLICT ARISES BETWEEN THESE SPECIFICATIONS, CODES AND ORDINANCES, IMMEDIATELY NOTIFY THE ENGINEER. DO NOT DEVIATE FROM THE SPECIFICATIONS NOR INSTALL ANY WORK WHICH MAY BE IN CONFLICT WITH CODES AND ORDINANCES UNTIL THE CONFLICT IS RESOLVED AND THE SOLUTION APPROVED BY THE ENGINEER.

SUBMITTALS

PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA, INCLUDING RATED CAPACITIES OF SELECTED MODEL CLEARLY INDICATED, FURNISH SPECIALTIES AND ACCESSORIES; AND INSTALLATION INSTRUCTIONS.

SHOP DRAWINGS: SUBMIT MANUFACTURER'S ASSEMBLY TYPE SHOP DRAWINGS INDICATING DIMENSIONS, ROUGHING–IN REQUIREMENTS, REQUIRED CLEARANCES, AND METHODS OF ASSEMBLY OF COMPONENTS AND ANCHORAGES.

MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LISTS FOR EACH TYPE OF SPRINKLER, VALVE AND ACCESSORY; INCLUDING "TROUBLE SHOOTING" MAINTENANCE GUIDE. INCLUDE THIS DATA, PRODUCT DATA AND SHOP DRAWINGS IN MAINTENANCE MANUAL.

MAKE SUBMITTALS OF SHOP DRAWINGS OF ALL FIRE PROTECTION EQUIPMENT AS FOLLOWS:

SPRINKLER HEADS
PIPE AND FITTINGS
HANGERS AND SUPPORTS
SPECIALTIES
VALVES
FIRE PUMP AND CONTROLLERS

CERTAIN TERMS SUCH AS "SHALL, PROVIDE, INSTALL, COMPLETE, START–UP" ARE NOT USED IN SOME PARTS OF THESE SPECIFICATIONS. THIS DOES NOT INDICATE ITEMS SHALL BE LESS THAN COMPLETELY INSTALLED OR THAT SYSTEMS SHALL BE LESS THAN COMPLETE.

CONFORM THE FIRE PROTECTION WORK TO THE REQUIREMENTS HEREIN. PROVIDE OFFSETS, FITTINGS, DRAINS AND ACCESSORIES WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK, AND ARRANGE THE WORK ACCORDINGLY. PROVIDE SUCH PIPING, FITTINGS, VALVES AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.

SUBMIT SHOP DRAWINGS OR CATALOG CUTS APPROVED BY "INSURANCE COMPANY" SHOWING NEW SPRINKLER EQUIPMENT, ALARM EQUIPMENT, VALVES AND GAGES.

SUBMIT, FOR ENGINEER AND OWNER'S USE TWO PRINT COPIES OF UPDATED WORKING DRAWINGS STAMPED "APPROVED" BY INSURANCE COMPANY.

SUBMIT, TO BOTH STATE AND LOCAL FIRE MARSHAL, ONE SIGNED COPY OF "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE".

SUBMIT WORKING SPRINKLER DRAWINGS TO LOCAL FIRE MARSHAL.

A COMPLETE SET OF DETAILED CONTRACTOR'S INSTALLATION DRAWINGS TO INCLUDE A FULL HEIGHT CROSS SECTION, LOCATIONS OF ALL WALLS, PARTITIONS, LIGHTS, DIFFUSERS, GRIDS, MAJOR EQUIPMENT AND DUCTWORK, SIZE OF SITE WATER MAIN AND PRESSURE, NOMINAL PIPE SIZES, CUTTING LENGTHS AND FINISHED FLOOR TO PIPE ELEVATION LENGTH, LOCATION OF ALL VALVES, MAINS, BRANCH PIPING AND SPRINKLER HEADS HYDRAULIC NAMEPLATE DATA AND ALL PERTINENT INFORMATION.

SUBMITTAL INFORMATION OUTLINED IN NFPA 13.

A COMPLETE SET OF DETAILED HYDRAULIC CALCULATIONS FOR EACH SYSTEM WITH HYDRAULIC REFERENCE POINTS, AS PER NFPA 13. SUBMITTAL INFORMATION OUTLINED IN NFPA 13.

ALL SPRINKLER LAYOUT SHOP DRAWINGS SHALL BE PROVIDED WITH A PE SEAL AND SIGNATURE OF A LICENSED PE IN THE STATE THAT THE PROJECT IS LOCATED IN.

MAINTENANCE MANUAL

INCLUDE FOLLOWING IN MANUALS:

MANUFACTURER'S DESCRIPTIVE DATA
OPERATION AND MAINTENANCE INSTRUCTIONS
REPLACEMENT PART LISTS
WIRING DIAGRAMS
MANUFACTURER'S WARRANTY & SERVICE CERTIFICATES
INSTRUCTIONS FOR PERIODIC CLEANING AND MAINTENANCE
PROCEDURES FOR SYSTEMS START–UP AND SHUT–DOWN
VALVE LOCATION AND TAG NUMBER CHARTS
NFPA 25 "INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS"

OPERATING INSTRUCTIONS

INSTRUCT OWNER'S OPERATING PERSONNEL ON PROPER CARE, MAINTENANCE AND OPERATING PROCEDURES.

PERMITS AND FEES

SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS AND APPROVALS.

ADJUSTMENTS

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING ADJUSTMENT PROCEDURES:

ADJUST SYSTEMS COMPONENTS FOR PROPER PERFORMANCE.
OPEN AND CLOSE VALVES, SET IN PROPER OPERATING POSITION.

ACCESSIBILITY

PLACE VALVES, UNIONS, DRAINS, AND ITEMS REQUIRING MAINTENANCE, ADJUSTMENT, OR REPAIR, IN ACCESSIBLE LOCATIONS. COORDINATE ACCESS PANELS WITH ARCHITECT.

APPROVALS

OBTAIN INSURANCE SERVICE'S OFFICE APPROVAL OF WORKING DRAWINGS. OBTAIN CERTIFICATES OF APPROVAL FROM FIRE ADMINISTRATION OFFICIAL.

REFERENCE PUBLICATIONS

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) AND AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATIONS ARE REFERRED TO HEREIN, BECAUSE THESE PUBLICATIONS ARE REVISED FREQUENTLY, DATES FOLLOWING PUBLICATION NUMBERS HAVE BEEN OMITTED. REFER TO LATEST EDITION.

COORDINATION OF WORK

FIRE PROTECTION SYSTEMS SHALL BE COMPLETELY OPERATIONAL UPON COMPLETION OF WORK. RE–PIPE AND RECONFIGURE SYSTEM FEED AND CROSS MAINS (AS REQUIRED) BACK TO AUTOMATIC SPRINKLER RISER FOR WATER SUPPLY. TEST AND ENSURE THAT ALARM AND TEST EQUIPMENT IS OPERATIONAL.

CAREFULLY CHECK SPACE REQUIREMENTS WITH OTHER TRADES TO INSURE THAT ALL MATERIALS CAN BE INSTALLED IN THE SPACES ALLOTTED THERETO, INCLUDING FINISHED SUSPENDED CEILING.

TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.

WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH OTHER TRADES TO INSURE THAT ALL TRADES HAVE THE INFORMATION NECESSARY SO THEY MAY PROPERLY INSTALL ALL THE NECESSARY CONNECTIONS AND EQUIPMENT. IDENTIFY ALL WORK ITEMS (VALVES, DRAINS, ETC.) IN AN APPROVED MANNER IN ORDER THAT THE CEILING SUBCONTRACTOR WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.

CONSULT WITH OTHER TRADES REGARDING EQUIPMENT SO, WHEREVER POSSIBLE, MOTORS AND CONTROL ARE OF THE SAME MANUFACTURER.

FURNISH AND SET ALL SLEEVES FOR PASSAGE OF PIPES AND CONDUITS THROUGH STRUCTURAL MASONRY AND CONCRETE WALL AND FLOORS, AND ELSEWHERE AS WILL BE REQUIRED FOR THE PROTECTION OF EACH PIPE PASSING THROUGH BUILDING SURFACES.

PROVIDE REQUIRED SUPPORTS AND HANGERS FOR PIPING AND EQUIPMENT SO LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE.

CONFORM THE SPRINKLER WORK TO THE REQUIREMENTS HEREIN. PROVIDE OFFSETS, FITTINGS, DRAINS, AND ACCESSORIES WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK, AND ARRANGE THE WORK ACCORDINGLY. PROVIDE SUCH PIPING, FITTINGS, VALVES AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.

ELECTRICAL CONNECTIONS

POWER SUPPLY AND ALARM WIRING WILL BE PROVIDED UNDER ELECTRICAL DIVISION AND CONNECTIONS MADE TO ANY NEW WATER FLOW ALARM DEVICES, ALARM BELLS, VALVE SUPERVISORY DEVICES, AND OTHER ELECTRICAL ITEMS.

TO FACILITATE ELECTRICAL CONNECTIONS EQUIPMENT ELECTRICAL ITEMS WITH NEMA ENCLOSURES HAVING ADEQUATE KNOCKOUTS, CONNECTORS, TERMINAL BLOCKS AND/OR CONTACTS.

PIPING IDENTIFICATION

CONSPICUOUSLY IDENTIFY NEW PIPING WITH SELF–ADHERING VINYL PLASTIC COLOR BANDS AND PIPE MARKERS IMPRINTED WITH LEGEND, BASED ON ANSI A13.1 "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS".

APPLY LEGENDS TO FEED AND CROSS MAIN PIPING ADJACENT TO CHANGES IN DIRECTION WHERE PIPES PASS THROUGH WALLS OR FLOORS, AT INTERVALS NOT EXCEEDING 40 FEET IN STRAIGHT PIPING RUNS, AND ADJACENT TO CROSS MAIN CONNECTIONS WITH FEED MAIN.

MINIMUM LETTER SIZE:

1/2" FOR PIPING 3/4" TO 1–1/4" OD
3/4" FOR PIPING 1–1/2" TO 2" OD
1–1/4" FOR PIPING 2–1/2" TO 6" OD

MINIMUM COLOR BAND WIDTH:

8" FOR PIPING 3/4" TO 2" OD
12" FOR PIPING 2–1/2" TO 6" OD

IDENTIFICATION SIGNS

PROVIDE ENAMELED STEEL IDENTIFICATION SIGNS FOR ALL NEW ALARM DEVICES AND ALL NEW CONTROL, DRAIN AND TEST VALVES.

FIRE STOPPING

DOW CORNING 3 – 6548 RTV SILICONE FOAM, OR FIBROUS GLASS SEALED FIRE TESTED AND APPROVED ELASTOMERIC CAULKING MATERIALS.

PIPE SLEEVES

INTERIOR PARTITIONS: #20 GAGE GALVANIZED STEEL, LOCK SEAM JOINT.

INTERIOR MASONRY WALL AND SLABS: SCHEDULE 40 GALVANIZED STEEL PIPE.

ESCUTCHEONS

CONTINUOUS CHROME PLATED CAST BRASS, PROVIDE AT ALL LOCATIONS IN UNFINISHED SPACES WHERE PIPING IS EXPOSED.

METAL FRAMING

MATERIAL: RUST RESISTANT, CONTINUOUS SLOT STEEL CHANNEL OR SLOTTED STEEL ANGLE, WITH MATCHING FITTINGS ASSEMBLED WITH RUST RESISTANT HEX HEAD BOLTS AND NUTS.

DESIGN LOADING: AS RECOMMENDED BY MANUFACTURER.

PIPE, FITTINGS AND VALVES

BURIED PIPING: DUCTILE IRON PIPE: ANSI/AWWA C151, CEMENT LINED WITH ANSI/AWWA C110 FITTINGS OR ASME B16.1, CAST IRON FLANGES AND FLANGED FITTINGS AND ANSI/AWWA C111, RUBBER GASKET JOINTS.

PIPE: SCHEDULE 40 BLACK STEEL, ASTM A120 OR ASTM A53. CROSS MAIN AND BRANCH LINE PIPING AT CEILINGS JOINED BY WELDING OR BE ROLL GROOVED PIPE COUPLING MAY BE SCHEDULE 10 (LIGHT WALL) STEEL SPRINKLER PIPE, ASTM A135. SYSTEM RISERS AND FEED MAINS MUST BE SCHEDULE 40 PIPE.

THREAD FITTINGS: 175 PSI WOG MALLEABLE IRON, ANSI B16.3 AND ASTM A47 OR CAST IRON, ANSI B16.4 AND ASTM A126.

ALL PIPING, FITTINGS, COUPLINGS, ETC. SHALL BE MADE IN U.S.A. AND HAVE TRACEABLE MATERIAL TESTING REPORT DATA AVAILABLE TO THE ENGINEER FOR HIS/HER REVIEW. NO FOREIGN MATERIALS WILL BE ACCEPTABLE.

FLANGE FITTINGS: CLASS 125, CAST IRON, ANSI B16.1, ASTM A126.

GROOVED PIPE FITTINGS: FM APPROVED MALLEABLE/DUCTILE IRON

MECHANICAL GROOVED COUPLINGS: FM APPROVED, MALLEABLE OR DUCTILE IRON HOUSING, RESILIENT ELASTOMERIC GASKET, GROOVED PIPE CONFIGURATION.

VALVES: BEAR UL AND/OR FM LABEL OR MARKING. PROVIDE MANUFACTURER'S NAME AND PRESSURE RATING MARKED ON VALVE BODY.

DRAIN AND TEST VALVES: ALL BRONZE THREADED AND GLOBE OR ANGLE VALVE.

CHECK VALVES – 2 INCH AND SMALLER: ALL BRONZE THREADED END.
CHECK VALVES – 2–1/2 INCH AND LARGER: COATED DUCTILE IRON, FLANGED.

CONTROL VALVES – 2–1/2 INCH AND SMALLER: ALL BRONZE, SLOW BUTTERFLY BALL WITH BUILT IN SUPERVISORY SWITCH.
CONTROL VALVES – 3 INCH AND LARGER: COATED DUCTILE IRON OSY FLANGED GATE VALVE.

TEST PIPE OUTLETS: CORROSION RESISTANT SMOOTH BORE PIPE NIPPLE HAVING FLOW EQUIVALENT TO ONE SPRINKLER.

GAUGE VALVES: 1/4" SOFT METAL SEAT GLOBE VALVE WITH DRAIN PLUG.

PRESSURE GAUGES: LISTED 3–1/2" DIAL, STEM MOUNTED, BOURDON TUBE TYPE, WITH BRASS CASE AND RING, PHOSPHOR BRONZE TUBE, BRASS SOCKET, BRASS MOVEMENT, HEAVY FLAT GLASS CRYSTAL, 0–300 PSI RANGE.

INSPECTORS TEST CONNECTION: U.L. LISTED, FM APPROVED, 300 PSI MAXIMUM WORKING PRESSURE, ONE PIECE DUCTILE IRON BODY, ASTM A536, 1–1/4" INLET AND OUTLET CONNECTIONS, EQUIPPED WITH BRONZE FITTED TEST AND DRAIN VALVES, ACRYLIC SIGHT GLASS. INSTALL 1/2" ALUMINUM ORIFICE INSETS GIVING FLOW EQUAL TO ONE SPRINKLER HEAD. VICTAULIC "TESTMASTER" STYLE 718/719.

SPRINKLER EQUIPMENT

SPRINKLER HEADS

AUTOMATIC TYPE: UPRIGHT, CONCEALED PENDENT, OR SIDEWALL TO MEET CONDITIONS AND OF PROPER TEMPERATURE RATING. DEFLECTOR TO BE MARKED TO INDICATE POSITION.

ALL SPRINKLERS INSTALLED IN A LIGHT HAZARD CLASSIFICATION SHALL BE QUICK RESPONSE TYPE.

CONCEALED SPRINKLER HEADS (WET): QUICK RESPONSE, ADJUSTABLE WHITE COVER PLATE, GLASS BULB, 5.6 K FACTOR, ½–INCH ORIFICE, 165 DEGREE F. TYCO SERIES RFII ROYAL FLUSH.

CONCEALED SPRINKLER HEADS (DRY): QUICK RESPONSE, ADJUSTABLE WHITE COVER PLATE, GLASS BULB, 5.6 K FACTOR, ½–INCH ORIFICE, 165 DEGREE F. TYCO SERIES DS–C.

PENDENT SPRINKLER HEADS (WET): QUICK RESPONSE, BRIGHT CHROME PLATED BRONZE WITH ADJUSTABLE SEMI–RECESSED CHROME ESCUTCHEON, GLASS BULB, 5.6 K FACTOR, ½–INCH ORIFICE, 200 DEGREE F. TYCO SERIES TY–FRB.

PENDENT SPRINKLER HEADS (DRY): QUICK RESPONSE, BRIGHT CHROME PLATED BRONZE WITH ADJUSTABLE SEMI–RECESSED CHROME ESCUTCHEON, GLASS BULB, 5.6 K FACTOR, ½–INCH ORIFICE, 155 DEGREE F. TYCO SERIES TY–FRB

UPRIGHT SPRINKLER HEADS: QUICK RESPONSE, BRONZE FINISH, GLASS BULB, 5.6 K FACTOR, ½–INCH ORIFICE, 155 DEGREE F. TYCO SERIES TY–FRB.

UPRIGHT SPRINKLER HEADS: QUICK RESPONSE, BRONZE FINISH, GLASS BULB, 5.6 K FACTOR, ½–INCH ORIFICE, 200 DEGREE F. TYCO SERIES TY–FRB

SIDEWALL SPRINKLER HEADS: QUICK RESPONSE, BRIGHT CHROME PLATED BRONZE WITH CHROME ESCUTCHEON, GLASS BULB, 5.6 K FACTOR, ½–INCH ORIFICE, 165 DEGREE F. TYCO SERIES TY–FRB.

HEAD GUARDS: REQUIRED FOR HEADS SUBJECT TO MECHANICAL INJURY.

SPARE HEADS: NOT LESS THAN 12, TOTAL NUMBER BASED ON ONE SPARE HEAD OF EACH TYPE AND RATING PER EACH 100 SIMILAR HEADS OR PART THEREOF, INSTALLED.

SPARE HEAD CABINET: BAKED ENAMELED STEEL CABINET, HINGED COVER, OF ADEQUATE SIZE TO CONTAIN HEADS AND WRENCH.

HEAD WRENCH: PROVIDE AT LEAST ONE, WITH SUITABLE OPENINGS.

ALARM VALVES

PROVIDE TYCO MODEL RM–2 WET SYSTEM ALARM CHECK VALVE COMPLETE WITH TRIM KIT.

PROVIDE TYCO MODEL DPV–1 DRY SYSTEM RY PIPE VALVE COMPLETE WITH TRIM KIT AND AIR MAINTENANCE.

VALVE SUPERVISORY DEVICES

VALVE SUPERVISORY DEVICES: U.L. LABELED FM APPROVED, TAMPER–PROOF SIGNALING INITIATING SWITCH ARRANGED TO DETECT CLOSED VALVE POSITION. ELECTRICAL WIRING: 120 VAC. POTTER–ROEMER #6220.

ELECTRIC BELL, SYSTEM SENSOR MODEL # SSV120–6.

FLOW SWITCH, SYSTEM SENSOR MODEL # WFD

PRESSURE SWITCH, SYSTEM SENSOR MODEL # EPS10–1

FIRE DEPARTMENT CONNECTIONS

FIRE DEPARTMENT CONNECTION SHALL BE 2–1/2"X2–1/2"X4", POLISHED BRASS, SINGLE CLAPPER SWING TYPE CONNECTION. PROVIDE WITH POLISHED BRASS IDENTIFICATION PLATE. CLAPPER DESIGN SHALL ALLOW FOR ONE OR BOTH INLETS TO BE PRESSURIZED DURING OPERATION. PROVIDE POLISHED BRASS CAST ALUMINUM ALLOY CAPS AND CHAINS FOR PROTECTION OF THE 2–1/2" INLETS. THE FIRE DEPARTMENT CONNECTION SHALL BE CONSTRUCTED OF CAST BRASS WITH BRASS CLAPPER, BRASS SWIVEL COUPLINGS AND A BRASS HINGE PIN. THE WORDS "AUTO SPKR" AND "F.D. CONN" SHALL BE CAST IN RAISED LETTERS ON THE BODY. FIRE DEPARTMENT CONNECTION THREADS SHALL MATCH THE LOCAL FIRE DEPARTMENTS STANDARD. DRAIN: 3/4 INCH AUTOMATIC DRIP, INSTALL AT LOW POINT AFTER CHECK VALVE, PIPE TO BUILDING EXTERIOR. LABEL: "STANDPIPE – FIRE DEPARTMENT CONNECTION".

LOCATE FIRE DEPARTMENT CONNECTION WITH SUFFICIENT CLEARANCE FROM WALLS, OBSTRUCTIONS, ETC., TO ALLOW FULL SWING OF FIRE DEPARTMENT WRENCH HANDLE. COORDINATE THE EXACT LOCATION OF THE FIRE DEPARTMENT CONNECTION WITH THE LOCAL FIRE OFFICIALS. INSTALLATION SHALL CONFORM TO THE LOCAL FIRE OFFICIAL'S REQUIREMENTS.

FIRE PUMP

FURNISH AND INSTALL A DIESEL DRIVEN FIRE PUMP SYSTEM DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 20, AS MANUFACTURED BY PEERLESS OR APPROVED EQUAL. THE SYSTEM SHALL CONSIST OF PUMP, DRIVER, CONTROLS, VALVES, PIPING, DRAINS AND ALL COMPONENTS NECESSARY TO DELIVER A SYSTEM FLOW OF 500 GPM AT A DISCHARGE PRESSURE OF 100 PSI MINIMUM. THE SYSTEM MANUFACTURE SHALL HAVE UNIT RESPONSIBILITY FOR THE PROPER OPERATION OF THE ENTIRE PACKAGED SYSTEM SPECIFIED HEREIN.

FIRE PUMP SHALL BE PENTAIR MODEL F11FCM7000F0G, 500 GPM AT 100 PSI. THE PUMP SHALL ALSO DELIVER 150% RATED CAPACITY AT NOT LESS THAN 65% OF THE RATED HEAD. SHUT–OFF HEAD SHALL NOT EXCEED 140% OF THE RATED HEAD.

THE TOTAL INSTALLED LENGTH OF THE PUMP FROM THE BOTTOM OF THE BASE TO THE BOTTOM OF THE SUCTION STRAINER SHALL BE 14'–0" AND SHALL BE VERIFIED AGAINST FIELD CONDITIONS BY THE CONTRACTOR. THE PUMP DISCHARGE HEAD SHALL BE CAST IRON AND FITTED WITH AN 8" DISCHARGE CONNECTION WITH 125#ANSI FLANGE DIMENSIONS.

THE PUMP DISCHARGE HEAD SHALL PROVIDE RIGID MOUNTING SUPPORT FOR THE COMPLETE PUMP ASSEMBLY. THE PUMP SHAFT BEARINGS SHALL BE WATER LUBRICATED BY THE LIQUID BEING PUMPED. PUMP COLUMN PIPE SHALL BE IN SECTION NOT LONGER THAN 10 FEET EACH. SOME ASSEMBLY IN THE FIELD MAY BE REQUIRED BY THE INSTALLING CONTRACTOR. PUMP BOWL ASSEMBLIES SHALL INCLUDE CAST IRON BOWLS AND BRONZE IMPELLERS AND STRAINER SIZED TO RESIST PASSABLE OBJECTS 1/2" IN SPHERE SIZE.

RIGHT ANGLE GEAR DRIVE – THE ENGINE DRIVEN VERTICAL TURBINE FIRE PUMP SHALL BE FURNISHED WITH A VERTICAL HOLLOW SHAFT RIGHT ANGLE GEAR. THE SHALL BE DIRECT CONNECTED TO THE PUMP SHAFT AND BE EQUIPPED WITH A NON–REVERSE RATCHET. THE DRIVE SHALL BE CONNECTED TO THE ENGINE BY AN APPROVED FLEX SHAFT WITH AND ENCLOSING GUARD AS RECOMMENDED BY NFPA 20. THE DRIVE SHALL HAVE PROVISION FOR ADJUSTING THE PUMP IMPELLER LATERAL SETTING FOR PROPER OPERATION AND PERFORMANCE.

DIESEL ENGINE – THE DIESEL DRIVER SHALL BE A HORIZONTAL SHAFT, OPEN TYPE, INTERNAL COMBUSTION ENGINE MODEL JU4H–UFAEE8 64HP BY CLARKE AND RATED FOR 54 HP AT 1760 RPM.

THE ENGINE ACCESSORIES SHALL BE AS REQUIRED BY NFPA 20, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- AIR CLEANER
- GOVERNOR
- INSULATED EXHAUST SYSTEM
- LUBE OIL PUMP, FILTER AND COOLER WITH BY–PASS
- FUEL OIL PUMP AND FILTER
- STARTER, ALTERNATOR AND REGULATOR
- ENGINE MOUNTED INSTRUMENT PANEL INCLUDING AMMETER, LUBE, OIL PRESSURE GAGE, JACKET WATER TEMPERATURE GAGE AND TACHOMETER
- OVERSPEED SWITCH, LOW OIL PRESSURE SWITCH, HIGH WATER TEMPERATURE SWITCH AND FUEL STARTER CONTACTORS, ALL WIRED TO TERMINALS
- PEERLESS "MANTROL" U.L. LISTED EMERGENCY ENGINE OPERATOR, FACTORY WIRED AND MOUNTED
- HEAT EXCHANGER
- COOLING WATER SYSTEM WITH PRESSURE REGULATOR, STRAINER, SOLENOID VALVE, SHUT–OFF VALVE AND MANUAL BYPASS VALVE, FACTORY INSTALLED PIPING FROM THE PUMP DISCHARGE TO THE HEAT EXCHANGER
- LEAD ACID DUAL BATTERIES
- BATTERY RACK AND CABLES
- EXHAUST SILENCER, RESIDENTIAL TYPE FOR FIELD INSTALLATION
- FLEXIBLE EXHAUST CONNECTOR
- ENGINE JACKET HEATER

DIESEL FUEL TANK –U.L. LISTED, NFPA 20 APPROVED DOUBLE WALL FUEL TANK NOT LESS THAN 119 GALLONS. SECONDARY CONTAINMENT SHALL PROVIDE AND AUDIBLE ALARM AT THE CONTROLLER LABELED "FUEL OIL SPILL". SYSTEM SHALL BE PROVIDED COMPLETE WITH FUEL VENT, ARRESTOR, LOCKABLE FILL CAP, FUEL GAGE AND LOW LEVEL FUEL SWITCH. LEGS TO BE PROVIDED BY INSTALLING CONTRACTOR.

DIESEL ENGINE CONTROLLER – THE FIRE PUMP CONTROLLER SHALL BE A FIRETROL FTA1100J FACTORY ASSEMBLED. WIRED AND TESTED TO THE LATEST EDITION OF NFPA 20.

THE CONTROLLER SHALL FEATURE AN OPERATOR INTERFACE WITH USER KEYPAD. THE INTERFACE SHALL MONITOR AND DISPLAY OPERATING CONDITIONS, INCLUDING ALL ALARMS, EVENTS AND DATE AND TIME STAMP. THIS DEVICE SHALL BE FULLY ACCESSIBLE WITHOUT OPENING THE DOOR. THE DIGITAL DISPLAY SHALL INDICATE TEXT MESSAGES FOR THE STATUS AND ALARM CONDITIONS OF:

–ENGINE RUN
–MINIMUM RUN TIME/OFF DISPLAY TIME
–ENGINE FAIL TO START
–LOW SUCTION PRESSURE
–DRIVE NOT INSTALLED
–DISK ERROR
–DISK NEAR FULL
–PRESSURE ERROR
–SEQUENTIAL START TIME
–CRANK/RESET TIME CYCLE
–REMOTE START
–SYSTEM BATTERY LOW
–PRINTER ERROR
–MANUAL ENGINE CRANK

THE FOLLOWING LED INDICATORS SHALL BE VISIBLE WITH THE DOOR CLOSED:

–MAIN SWITCH IN AUTO
–ALARM
–ENGINE FAIL TO START
–CHARGER MALFUNCTION
–BATTERY #1 TROUBLE
–BATTERY #2 TROUBLE
–SYSTEM PRESSURE LOW
–ENGINE RUNNING
–ENGINE COOLANT TEMPERATURE HIGH
–ENGINE OIL PRESSURE LOW
–ENGINE OVERSPEED

THE DIGITAL DISPLAY SHALL MONITOR THE SYSTEM AND LOG THE FOLLOWING DATA:

–MOTOR CALLS/START
–TOTAL ENGINE RUN TIME
–LAST ENGINE RUN TIME
–LAST ENGINE START
–LAST HIGH WATER TEMPERATURE
–LAST LOW OIL PRESSURE
–LAST LOW FUEL LEVEL
–LAST BATTERY CHARGER FAILURE
–LAST BATTERY TROUBLE
–LAST ENGINE OVERSPEED
–MINIMUM BATTERY VOLTAGES
–MAXIMUM BATTERY VOLTAGES
–TOTAL UNIT RUN TIME
–MAXIMUM/MINIMUM SYSTEM PRESSURE

THE CONTROLLER SHALL RECORD ALL OPERATIONAL AND ALARM EVENTS TO SYSTEMS MEMORY. ALL EVENTS SHALL BE TIMED AND DATE STAMPED AND INCLUDE AN INDEX NUMBER. THE SYSTEM MEMORY SHALL HAVE THE CAPABILITY OF STORING 3000 EVENTS AND ALLOW THE USER ACCESS TO THE EVENT LOG VIA THE USER INTERFACE.

THE START, STOP AND SYSTEM PRESSURE SHALL BE DIGITALLY DISPLAYED AND ADJUSTABLE THROUGH THE USER INTERFACE. THE PRESSURE TRANSDUCER SHALL BE MOUNTED INSIDE THE CONTROLLER TO PREVENT ACCIDENTAL DAMAGE.

THE CONTROLLER SHALL INCLUDE TWO FULLY AUTOMATIC 200 AMP HOUR, 4 STEP BATTERY CHARGERS. THE CHARGERS SHALL FEATURE A QUALIFICATION STAGE, IN WHICH THE BATTERIES ARE EXAMINED BY THE CHARGER TO INSURE THAT THEY ARE NOT DEFECTIVE AND ARE CAPABLE OF ACCEPTING A CHARGE.

THE LAMP TEST FEATURE SHALL BE INCLUDES. THE USER INTERFACE SHALL ALSO HAVE THE ABILITY TO DISPLAY THE STATUS OF THE SYSTEM INPUTS AND OUTPUTS.

JOCKEY PUMP AND CONTROLLER – JOCKEY PUMP SHALL BE GRUNDFOS SUBMERSIBLE PUMP, 304 STAINLESS STEEL MODEL 10S10–15–1HP, 208 VOLTS, 3 PHASE RATED FOR 12 GPM AT 350 FEET OF HEAD. THE JOCKEY PUMP CONTROLLER SHALL BE FIRETROL LIMITED OPTION CONTROLLER MODEL FTA560F.

SPRINKLER AND STORAGE TANK COMPONENTS

PNEUMERCATOR LEVEL SWITCH (FOOT VALVES), STAINLESS STEEL SHAFT AND FLOATS, WATER FILLED MODEL LS–600–CSM. CONTROL PANEL SHALL BE PNEUMERCATOR LC–1004, 115 VOLT – 60 HZ.

–98% = HIGH LEVEL ALARM
–85% = SOLENOID VALVE OPEN
–95% = SOLENOID VALVE CLOSED
–50% = LOW LEVEL ALARM

PANEL SHALL HAVE A SILENCE BUTTON THAT RESETS WHEN SYSTEM RETURNS TO NORMAL.

LOW SUCTION PRESSURE SHUTDOWN ALARM PANEL, FIRETROL FTA–200–D, 115 VOLT – 60 HZ, WITH AUTO PUMP RESTART AND MANUAL ALARM RESET. ALARM ACTIVATION SHALL BE SET 6" FROM TOP OF BASKET SUCTION STRAINER,

TESTS

THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A MATERIAL TEST AND CERTIFICATION FORM TO ALL REQUIRED AUTHORIZES HAVING JURISDICTION AND THE OWNER'S INSURANCE CARRIER SO AS TO CERTIFY THAT THE SPRINKLER SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, FEDERAL, STATE, AND LOCAL CODES AND PROCEDURES.

UP

PREFABRICATED FIRE PUMP HOUSE SPECIFICATIONS

All of the above equipment, (except the test header and hose valves) shall be mounted on an open I-Beam perimeter skid. Skid to be flush grouted to top at site. Pipes, piping components, and the pressure sensing lines shall be firmly anchored to the steel base by means of structural steel supports. Electrical wiring between controller and pump shall be completed at the factory in rigid metal conduits with terminations in flexible metallic conduits (all other wiring to be done in EMT conduits). All tamper switches to be wired in EMT conduits to a common junction box for customer connection. Jockey pump and motor to be mounted and wired at site by others. Fire pump to be shipped loose and mounted in the field by others. The entire piping system and pump will be individually hydrostatically tested at the factory prior to shipment. Additionally, all equipment will be tested in accordance with the requirements of NFPA, UL and FM.

Building Design Criteria
All buildings shall be designed in accordance with the applicable sections of the latest edition of the AISC "Specifications for Structural Steel Buildings" and the AISI "Specification for the Design of Cold-Formed Steel Structural Members". Each building shall be designed for the following loads.
The vertical Live Load of the building shall not be less than 40 pounds per square foot applied on the horizontal projection of the roof.
The horizontal Wind Load of the building shall not be less than 110 MPH and shall be distributed and applied in accordance with the applicable edition of the Metal Building Manufacturer's Association (MBMA) publication titled, "Low Rise Building Systems Manual". The building and portion there of shall be designed to resist the effects of seismic ground motions that might be expected in seismic zones. Reduction of loads due to tributary loaded areas shall not be permitted. All combining and distributing of auxiliary equipment loads imposed on the building system shall be done in accordance with the applicable section of the MBMA publication titled, "Low Rise Building Systems Manual". Upon request, a complete design certification signed and sealed by a registered professional engineer shall be provided.

Roof Panel Design
Roof panels shall be supplied in a single continuous length from eave line to ridgeline and shall be designed to tightly interlock, so that no fasteners are required at intermediate points along the panel side laps. Roof panels shall be 16" or 12" wide with a smooth surface between the interlocking side ribs. The interlocking ribs shall be a minimum 3" high and shall be turned upward. All roof panels shall be factory punched for connection at the eave line of the building. There shall be no fastener penetrations through the roof covering, except at eave lines, ridgelines, and roof accessory openings such as skylights and ventilators. Roof panels shall be nominal 20 gauge galvanized steel conforming to ASTM A-653 specifications with the galvanized coating conforming to G90 (1.25 oz. Commercial) standards. Minimum yield strength of the panel material shall be 50,000 PSI.

Roof panels shall receive a roller applied paint coating having an exterior coating thickness of 0.8 to 1.2 mils of dry film thickness. The roof panel color coating shall carry a low fire hazard rating equal to a Class 1 material as defined by Factory Mutual. The panel coating shall have achieved a Flame Spread Index of 0 and a Fuel Contributed Index of 5 or less when tested in accordance with ASTM E-84 test procedures. The finish coat shall be a white silicionized polyester formulation that shall meet the following performance standards after 10 years continuous exposure to "normal" atmospheric conditions not containing corrosive fumes such as chemicals or salt spray. Panels shall show no evidence of blistering, peeling, or chipping. Panels shall not show surface chalking in excess of the No. 4 rating D659 as established by the American Society of Testing Materials (ASTM). Panels, after cleaning, shall not show color change in excess of 7 NBS units when measured in accordance with the ASTMD-2244 standard. The above performance standards shall not apply where panels have been damaged by fire, radiation or other physical damage.

Wall Panel Design
Exterior wall panels of the building shall be a single continuous length from the base channel to the roofline of the building, except where interrupted by wall openings. Wall panels shall be 16" wide with a 3" deep inward turned interlocking side rib. Wall panels shall contain two 3/4" deep by 3-1/8" wide fluted recesses, each starting 2-7/16" from the panel edge. Wall panels shall be fastened internally to the base channel and eave cap of the building with 3/8" diameter electro-galvanized machine bolts placed within the panel interlock. The fastening system shall be designed so that no wall fasteners are exposed on the exterior surface of the walls. Wall panels shall be nominal 24 gauge galvanized steel conforming to ASTM A-653 specifications with the galvanized coating conforming to G90 (1.25 oz. commercial) standards. Minimum yield strength of panel material shall be 40,000 PSI. Panel material shall be embossed with a random pattern pebble emboss of approximately .007 - .008 depth. All exterior surfaces of the galvanized steel wall covering and exterior trim shall receive a roller applied paint coating having an exterior coating thickness of 0.8 to 1.2 mils of dry film thickness. The finish coat for wall panels shall be a silicionized polyester formulation. The wall panel color coating shall carry a low fire hazard rating equal to a Class I material as defined by Factory Mutual. The panel coating shall have achieved a Flame Spread Index of 0 and a Fuel Contributed Index of 5 or less when tested in accordance with ASTM E-84 test procedures. Exterior color coatings shall meet the following performance standards after 10 years continuous exposure in normal conditions. Panels shall show no evidence of blistering, peeling, or chipping. Panels shall not show surface chalking in excess of the No. 7 rating D659 as established by the American Society of Testing Materials (ASTM). Panels, after cleaning, shall not show color change in excess of five (5) NBS units when measured in accordance with the ASTMD-2244 standard. The above performance standards shall not apply where panels have been damaged by fire, radiation or other physical damage.

Formed Wall Liner
The interior of the metal walls shall be lined with 32" wide, nominal 26 gauge galvanized steel panels, pre-painted Arctic White with 1/4" high by 1" wide flutes on 8" centers. The exterior panel void shall have 3-1/2" thick R11 unfaced fiberglass insulation. The liner system shall be furnished complete with white base molding and white trim. The "U" value of the finished wall system shall be 0.16 BTU's per square foot when calculated in accordance with the "Zone Method" contained in ASHRAE "Handbook of Fundamentals", 1981 edition. The ceiling shall be insulated with 16" wide by 3-1/2" thick R11 unfaced fiberglass insulation laid at right angles to the panel ribs. The "U" value through the finished ceiling shall be a maximum of 0.09 BTU's per square foot when calculated in accordance with the "Zone Method" contained in ASHRAE "Handbook of Fundamentals", 1981 edition.

Building Type
Each building shall have an interlocking panel roof system with a 1-1/2" pitch over the building width. Roof panels shall be attached to the wall cap through factory punched holes, with #14 corrosion resistant fasteners. The roof system shall include a gutter and downspout system at the low sidewall, eave trim at the high sidewall, and matching rake trim at the building end walls. All gutters and trim shall be galvanized steel pre-painted Arctic White or Roman Bronze. Transmission of horizontal wind loads across the building shall be made through the panel roof system and no separate roof or wall diagonal bracing shall be required. Where required for proper transmission of lateral wind loads, structural frame wind bents shall be installed. Wind bents shall consist of a prime painted column and rafter belted assembly of steel conforming to ASTM A-36 specifications.

Hollow Metal Doors
All doors shall be 1-3/4" thick flush type. Door panels shall be nominal 20 gauge galvanized steel reinforced by laminating to a honeycomb core enclosed with 16 gauge end channel. The hinge reinforcements shall be nominal 7 gauge and the lock reinforcements shall be nominal 16 gauge. Doorframes shall be 4-3/4' deep double rabbeted type of nominal 16 gauge galvanized steel. Doors and frames shall be painted with one coat of baked on primer. All doors shall be pre-assembled in their frames and hardware installed and tested. Field installation of single leaf door units shall not require any frame assembly, or door hanging.

Door Hardware
Door hardware shall consist of:
3 - 4-1/2" x 4-1/2" standard weight, plain bearing hinges per ANSI A5133 630 Satin Stainless Finish with non-rising pins.
3 - 11/16" wide x 5/8" high-extruded aluminum threshold. (Out swing.)
1/4" x 1/2" silicone rubber weather stripping.
Mortise lockset per ANSI A156.13, Series 1000, Grade 1, Function F13, 626 Satin Chrome Finish (Levers both sides.)

Exhaust Fan
Exhaust Fan shall consist of shutter, fan assembly, wall sleeve, and rear guard. Fan shall have a 115-volt, 1/6 HP direct totally enclosed motor for continuous duty with thermal overload protection built in. Rear guard shall conform to OSHA specifications.

A/C Motor Operator Louver (temperature activated)
Louvers shall be O flanged self -framing design. The louver frame shall be of nominal 14 gauge formed aluminum, and the louver blades shall be nominal 12 gauge extruded aluminum. Finish shall be natural mill finish and shall not require field painting. Blades shall be pivoted on 1/2" diameter aluminum pivot pins through nylon flanged bearings and operated by means of a pull bar-operating handle connected to solenoid. All louvers shall be complete with an 18 - 14 aluminum mesh insect screen. The motor activator provides true spring return operation for reliable fail-safe application and positive close off on dampers. The actuator provides 95 degrees of rotation and is provided with a graduated position indicator showing 0 to 90 degrees. The activator may be installed anywhere in its normal rotation without the need of mechanical end switches.

Dual Heaters
Heater has an advanced pull-through airflow design that draws air across the heating element during operation. The unit heater is equipped with a built-in thermostat capable of maintaining a minimum inside temperature of 40 deg. F Heater wattage varies from 3KW to 15KW depending mainly on the building size, ambient outside temperature & desired temperature in the building.

Mini Power Zone
This is a general purpose 460 volts to 230/120 volts transformer for supplying power via double pole/single pole circuit breakers to electrical components in the building rated at different voltages. The transformer & the circuit breakers are housed in a rugged NEMA 3R enclosure.

Wireway with Distribution block
The distribution block is housed in a NEMA 1 rated enclosure. The distribution block splits the customer supplied single source power (typically 3 phase 460 volts) to supply the electric controllers (same voltage rating as the customer supply) & feeds the Mini Power zone for supplying to equipment rated at different voltages.

Other electrical components in building
4' interior fluorescent ceiling lights (operates on single-phase 120 volts)
High-pressure sodium exterior lights above the door (operates on single phase 120 volts)
Wall mounted GFCI receptacles (operates on single-phase 120 volts)
Emergency lights, for A/C power failure, inside building (operates on 12V batteries)

Sprinkler System
Building to have its own sprinkler system designed & installed per NFPA 13. Sprinkler heads to be rated for 155 degrees F & would have a minimum sprinkling capacity of 0.20 gpm/sq. feet.

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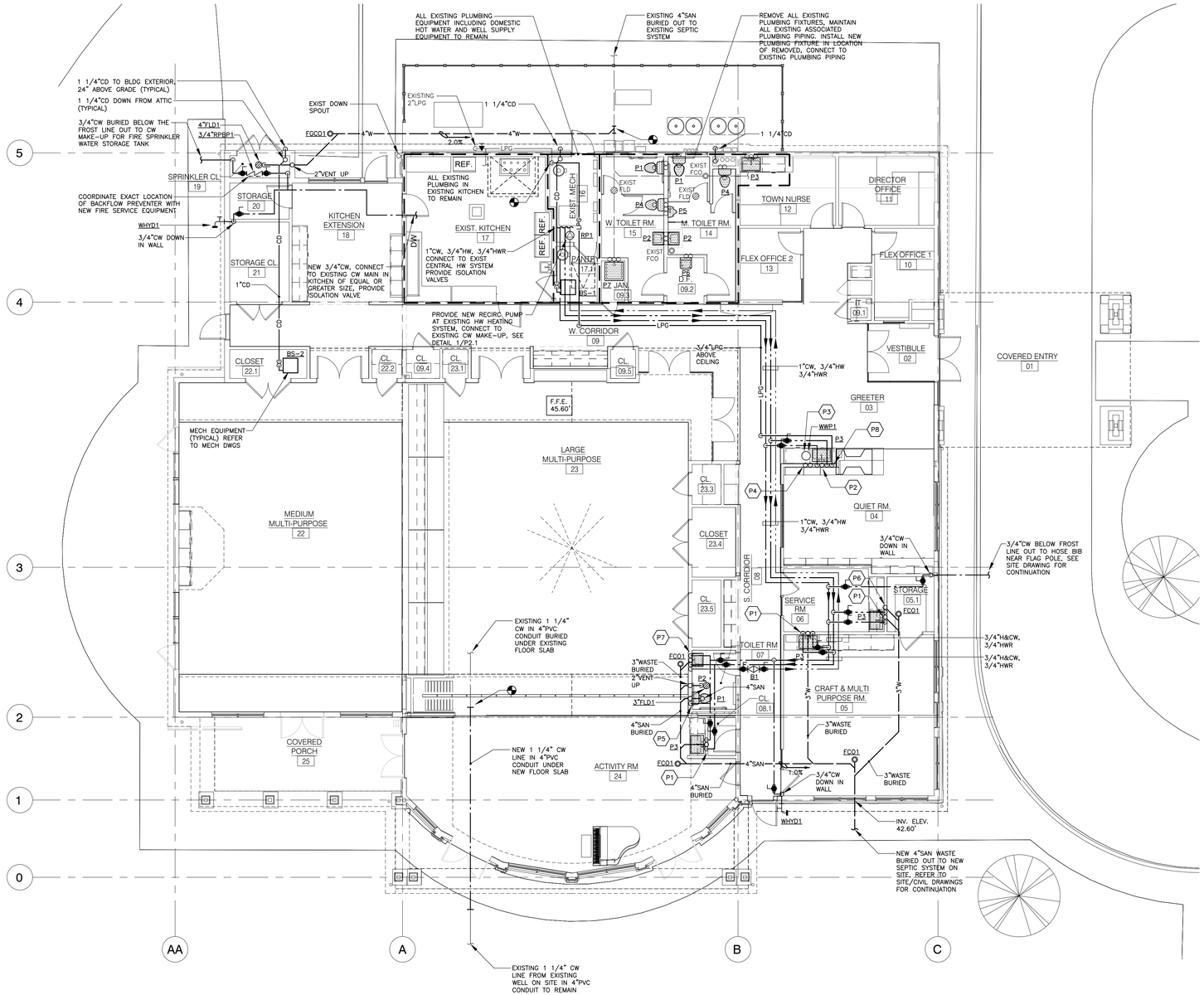


PLUMBING FIRST FLOOR PLAN
SCALE: 1/8"= 1'-0"

PLUMBING GENERAL NOTES

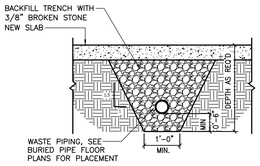
1. THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK, SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PLUMBING CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.
4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL SERVICES TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO: GAS SUPPLY PIPING, CONDENSATE PIPING, COLD WATER SUPPLY, PIPING, DRAINS, AND CONNECTIONS TO AIR HANDLING UNITS, FAN COIL UNITS, UNIT HEATERS, BOILERS, CHILLERS, ETC. ALSO, DEVICES REQUIRED INCLUDE BACKFLOW PREVENTERS, REGULATORS, UNIONS, TRAPS, AND SHUT-OFF VALVES REQUIRED FOR THIS EQUIPMENT. REFER TO HVAC DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
5. THE PLUMBING CONTRACTOR SHALL PROVIDE PIPE EXPANSION JOINTS ON PIPING PASSING THRU ALL BUILDING EXPANSION JOINT LOCATIONS AS REQUIRED PER BUILDING CODES WHETHER OR NOT SHOWN ON DRAWINGS. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING EXPANSION JOINT LOCATIONS AND EXPANSION DIMENSIONS.
6. THE PLUMBING CONTRACTOR SHALL INSTALL ALL PIPING EQUIPMENT AND ACCESSORIES IN ACCORDANCE WITH THE LATEST STATE BUILDING CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. COORDINATION BETWEEN TRADES IS REQUIRED TO INSURE COMPLIANCE WITH THE GOVERNING CODES.
7. ALL PIPING, EQUIPMENT OR ACCESSORIES INSTALLED IN PLENUM RATED CEILINGS SHALL BE LISTED AND APPROVED FOR SUCH INSTALLATION.

PLUMBING KEY NOTES

- (P1) 1/2"H&CW DOWN IN WALL, 2"WASTE DOWN TO 3"WASTE BURIED, 1 1/2"VENT UP IN WALL, UP TO ATTIC.
- (P2) 1/2"H&CW DOWN IN WALL, 1 1/2"WASTE TO POINT OF USE WASTE WATER PUMP, 1 1/2"VENT UP IN WALL, UP TO ATTIC.
- (P3) WASTE WATER PUMP LOCATED BELOW SINK, COORDINATE EXACT LOCATION WITH CABINETS AND CASEWORK, REFER TO ARCHITECTURAL DRAWINGS.
- (P4) 1 1/2" PUMPED WASTE WATER UP IN WALL, UP TO ATTIC. 1 1/2"VENT UP IN WALL, UP TO ATTIC
- (P5) 1/2"CW DOWN IN WALL, 2"VENT UP IN WALL.
- (P6) 1 1/2"PUMPED WASTE DOWN FROM ATTIC, DROP IN WALL DOWN TO NEW 3"WASTE BURIED. CUT AND PATCH EXISTING FLOOR AS REQUIRED.
- (P7) 3/4"H&CW DOWN IN WALL, 1/2"HWR UP IN WALL, 2"WASTE DOWN TO 3"WASTE BURIED, 2"VENT UP IN WALL, UP TO ATTIC. EXTEND 1/2"HWR DOWN TO LAV ROUGH-IN, SEE DETAIL 5/P2.1.
- (P8) 3/4"LPG DOWN IN WALL TO GAS FIREPLACE (30,000 BTUH), PROVIDE ACCESSIBLE ISOLATION VALVE & FLEX CONNECTION, COORDINATE WITH FIRE PLACE MFG.

BURIED WASTE PIPE NOTES

1. CONTRACTOR TO EXCAVATE POINT OF NEW BURIED 4"WASTE CONNECTION PRIOR TO STARTING ANY NEW BURIED PIPING INSTALLATION. CONFIRM THAT THE EXISTING WASTE PIPE CONNECTION IS IN LOCATION INDICATED ON DRAWING. ALSO CONFIRM SIZE & INVERT ELEVATION.
2. CONTRACTOR TO PROVIDE GROUND PENETRATING RADAR TO DETERMINE LOCATIONS OF POTENTIAL EXISTING BURIED PIPING CONFLICTS WITH NEW BURIED WASTE PIPING.



1 BURIED PIPING DETAIL
N.T.S.

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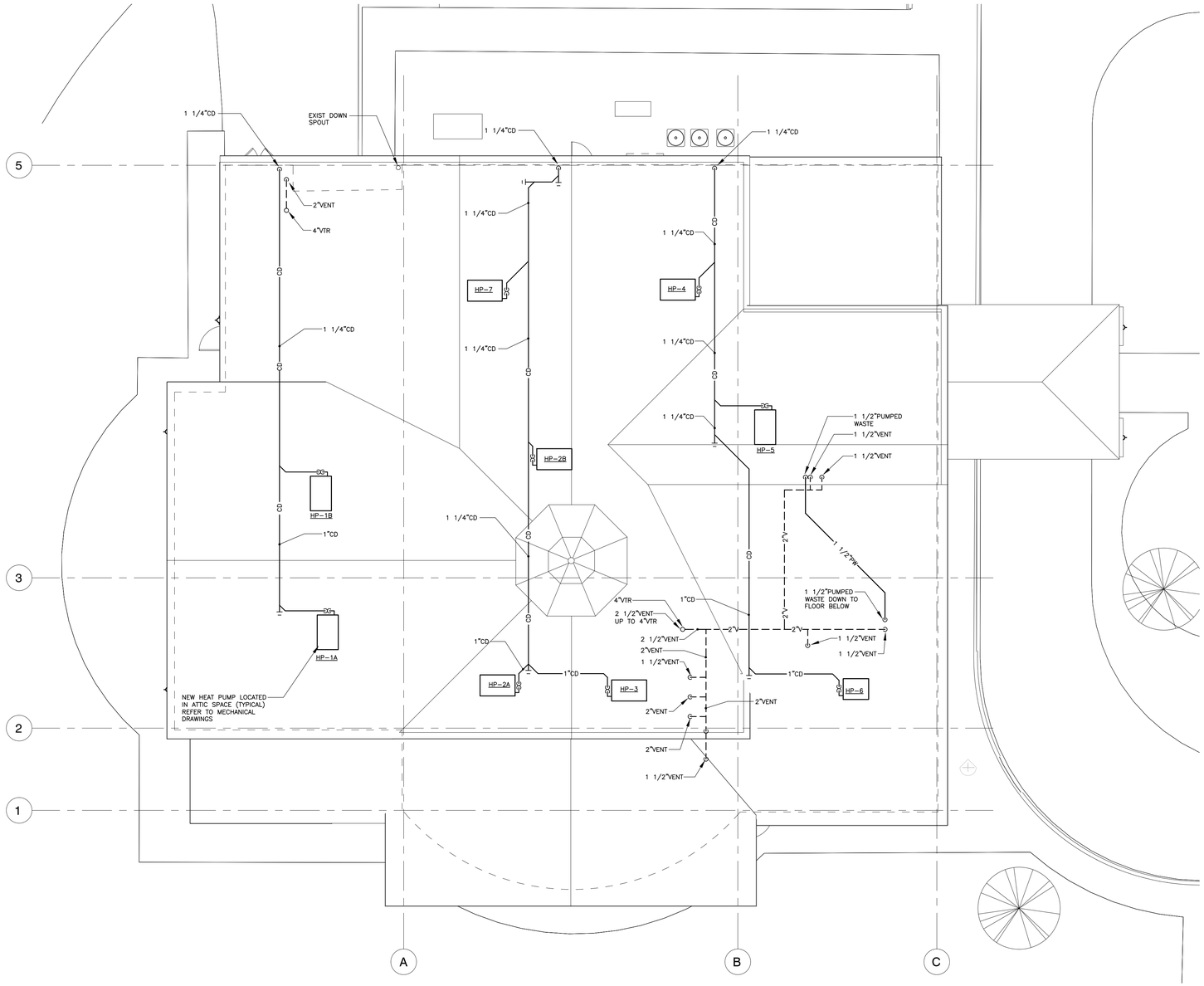

PLUMBING ATTIC PLAN
SCALE: 1/8"= 1'-0"

N

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SPECIFICATION (WWP2):

SUBMERSIBLE SEWAGE PUMP LIFT STATION– HYDROMATIC MODEL FSGHRD3678 AS SUPPLIED BY MECHANICAL SOLUTIONS INC.
CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO PROVIDE A COMPLETE PREPACKAGED SIMPLEX PUMPING SYSTEM AS SPECIFIED HEREIN. THE SYSTEM SHALL BE BY THE SAME MANUFACTURER AS SUPPLYING THE PUMP AND MOTOR CONTROL PANEL SO AS TO INSURE SUITABILITY AND SINGLE SOURCE RESPONSIBILITY FOR ALL EQUIPMENT.

THE SYSTEM SHALL CONSIST OF A FIBERGLASS BASIN WITH STEEL ANTI–FLOATATION RING, SHUT OFF VALVE, CHECK VALVE, SUBMERSIBLE GRINDER PUMPS, ALUMINUM SINGLE LEAF GAS TIGHT COVER, DISCHARGE PIPING, RAIL SYSTEM, ETC... PRE–PIPED WITH STAINLESS STEEL DISCHARGE PIPING, AND ELECTRICAL CONTROLS AS SPECIFIED BELOW.

EQUIPMENT:
ONE [1] HYDROMATIC HPG200 M5–2 GRINDER PUMPS EACH TO HAVE A CAPACITY OF 20 GPM @ 30' WHEN OPERATED BY 2 HP 3550 RPM 208 VOLT THREE PHASE 60 HZ MOTOR. PUMPS SHALL BE EQUIPPED WITH DUAL STAINLESS STEEL CUTTERS. THE CUTTING ACTION OF THE SECOND STAGE SHALL BE PERPENDICULAR TO THE FIRST STAGE TO PREVENT ROPING ACTION.

THE UPPER CUTTER RINGS SHALL BE REVERSIBLE TO PROVIDE NEW CUTTING EDGES TO DOUBLE LIFE OF CUTTERS. PUMPS SHALL BE EQUIPPED WITH DUAL MECHANICAL SEALS AND EQUIPPED WITH SEAL FAILURE WARNING SYSTEM. PUMP UTILIZING SINGLE STAGE CUTTER ARRANGEMENT, 1HP MOTORS, AIR FILLED MOTORS, OR POSITIVE DISPLACEMENT PUMPS ARE NOT ACCEPTABLE.

THE PUMP SHALL BE NON OVERLOADING THROUGHOUT THE ENTIRE RANGE OF OPERATION WITHOUT EMPLOYING SERVICE FACTOR. ALL EXTERNAL MATING PARTS SHALL BE MACHINED AND BUNA N RUBBER O RING SEALED ON A BEVELED EDGE. ALL FASTENERS EXPOSED TO THE PUMPED LIQUIDS SHALL BE 300 SERIES STAINLESS STEEL. THE PUMP VOLUTE, MOTOR, SEAL HOUSING AND IMPELLER SHALL BE MANUFACTURED FROM CLASS 30 CAST IRON

THE PUMP SHALL UTILIZE A DUAL MECHANICAL SEAL ARRANGEMENT WITH SEAL SENSOR PROBE LOCATED BETWEEN THE TWO SEAL FACES. PUMPS UTILIZING A SINGLE MECHANICAL SEAL ARE NOT ACCEPTABLE.

MOTOR: THE STATOR, ROTOR AND BEARINGS SHALL BE MOUNTED IN A SEALED SUBMERSIBLE TYPE HOUSING. THE STATOR WINDINGS SHALL HAVE CLASS F INSULATION AND A DIELECTRIC OIL FILLED MOTOR THAT IS RATED FOR CONTINUOUS DUTY. (AIR FILLED MOTORS ARE NOT ACCEPTABLE DUE TO POOR HEAT TRANSFER), NEMA B DESIGN. STATORS SHALL BE SECURELY HELD IN PLACE WITH A REMOVABLE END RING AND THREADED FASTENERS SO THEY MAY BE EASILY REMOVED IN THE FIELD AND MUST BE CAPABLE OF BEING REPAIRED OR REWOUND BY A LOCAL MOTOR SERVICE STATION. NO SPECIAL TOOLS OR HEAT SHALL BE REQUIRED FOR PUMP AND MOTOR DISASSEMBLY.

ELECTRICAL POWER CORD: SHALL BE WATER RESISTANT 600V, 60 DEGREE C MINIMUM. THE PUMP SHALL BE TRIPLE PROTECTED WITH A COMPRESSION FITTING AND TWO EPOXY POTTED AREAS AT THE POWER AND SENSOR CORD ENTRY TO THE PUMP. (TERMINAL BOARDS INSIDE THE PUMP ARE NOT ACCEPTABLE DUE TO PROBLEMS OF WICKING AND CRACKING WITH SUCH DEVICES).

FIBERGLASS BASIN: SHALL BE 36" IN DIAMETER BY 78" DEEP WITH STEEL ANTI–FLOATATION FLANGE MOUNTED ON THE BOTTOM OF THE BASIN. SINGLE LEAF GAS TIGHT ALUMINUM HATCH COVER WITH PADLOCK PROVISION, (1) 2" CAST IRON BALL CHECK VALVES, (1) " GATE VALVES. FLOAT MOUNTING BRACKET AND NEMA 4 JUNCTION BOX.

PUMP REMOVAL SYSTEM: (1) HYDRO – RAIL QUICK DISCONNECT SYSTEM SO PUMP MAY BE REMOVED AND RETURNED TO SERVICE WITHOUT ENTERING WET WELL OR DISCONNECTING PIPING. DISCHARGE PIPING, GUIDE RAILS, AND LIFTING CABLE SHALL BE 304 STAINLESS STEEL. CHECK VALVE SHALL BE FLOATING BALL TYPE DESIGNED FOR USE WITH GRINDER PUMPS. SHUT OFF VALVE SHALL BE OPERABLE FROM TOP OF STATION AND SHALL BE BRASS GATE VALVES. THE RAILS AND PIPING SHALL ALL BE PRE–INSTALLED AND TESTED AT THE FACTORY

CONTROL PANEL: SHALL BE SUPPLIED BY THE PUMP MANUFACTURER TO ENSURE COMPLETE COMPATIBILITY WITH THE PUMPS AND THE BALANCE OF THE EQUIPMENT. THE CONTROL PANEL SHALL BE NEMA 4X AND COME COMPLETE WITH THE FOLLOWING:

*CIRCUIT BREAKER – ONE PER PUMP
*MAGNETIC ACROSS THE LINE STARTERS
*120 VOLT CONTROL TRANSFORMER
*PUMP RUN LIGHT – ONE PER PUMP WELL WITHOUT HAVING TO ENTER CONFINED SPACE
*AUDIBLE/VISUAL HIGH WATER ACTIVATED ALARM LIGHT AND BELL WITH SILENCING SWITCH AND EXTRA SET OF DRY CONTACTS TO BE CONNECTED TO BUILDING REMOTE ALARM SYSTEM.
*H.O.A. SWITCH – ONE PER PUMP
*ENCAPSULATED FLOAT SWITCHES (4) REQUIRED
*NEMA 4X JUNCTION BOX
*UL LABELED CONTROL PANEL
*SEAL FAILURE ALARM ACTIVATION WITH TELEMETRY
*MAIN NON FUSED DISCONNECT
*SIMPLEX ELAPSED TIME METER
*PUMP FAILURE ALARM ACTIVATION WITH DRY CONTACTS.

APPROVED MANUFACTURERS : HYDROMATIC, FEDERAL AND HOMA.

STATION SHALL BE STARTED AND ADJUSTED BY MECHANICAL & PUMP SERVICES INC WITH WRITTEN REPORT SUPPLIED TO OWNER. ONE YEAR WARRANTY SHALL BE RESPONSIBILITY OF MECHANICAL SOLUTIONS 860–290–1564, X–102 KEN REYNOLDS.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	HOT WATER	COLD WATER	SAN. WASTE	VENT	TEPID WATER	REMARKS
WATER CLOSET TANK TYPE	–	1/2"	4"	2"	–	–
LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	–	–
SINK	1/2"	1/2"	1 1/2"	1 1/2"	–	–

REMARKS:
–

PIPING & MATERIALS SCHEDULE

PIPING SYSTEM	SIZE	PIPING MATERIALS	JOINTS	FITTINGS	ADDITIONAL COMMENTS
DOMESTIC HOT, COLD & RETURN WATER PIPING	1/2" – 2"	HARD COPPER TUBE: ASTM B 88, TYPE L WATER TUBE, DRAWN TEMPER	SOLDER FILLER METALS: ASTM B 32, LEAD–FREE ALLOYS	WROUGHT–COPPER SOLDER–JOINT FITTINGS: ASME B16.22, WROUGHT–COPPER PRESSURE FITTINGS	PROVIDE 1" INSULATION ON ALL CW, HW & HWR PIPING IN ALL AREAS
DOMESTIC HOT, COLD & RETURN WATER PIPING (BELOW SLAB)	1/2" – 2"	SOFT COPPER TUB: ATM B88, TYPE K, WATER TUB, DRAWN TEMPER	NO JOINTS UNDER GROUND IF POSSIBLE; IF REQUIRED FLARED JOINTS ARE ACCEPTABLE	CAST BRONZE FLARED FITTINGS	PROVIDE 1/2" INSULATION ON ALL CW & HW PIPING IN ALL AREAS. PROVIDE PVC SLEEVES FOR ALL PIPING UNDER SLAB BETWEEN WALL AND DENTAL EQUIPMENT
ABOVE AND BELOW GROUND SOIL, WASTE, VENT PIPING	ALL	PVC PIPE AND DWV FITTINGS & SOLID–WALL PVC PIPE SCHEDULE 40 ASTM D 2665	SOCKET GLUE JOINT: ADHESIVE PRIMER ASTM F 656, SOLVENT CEMENT ASTM D 2564	PVC SOCKET FITTINGS ASTM D 2665, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS AND TO FIT SCHEDULE 40 PIPE.	TRANSITION COUPLINGS, SHIELDED, NONPRESSURE TRANSITION COUPLINGS ASTM C 1460.
INDIRECT DRAIN PIPING	ALL	COPPER L TUBE: ASTM B 88, DRAINAGE TUBE, DRAWN TEMPER	SOLDERED JOINTS: ASTM B 813, WATER – FLUSHABLE FLUX TO END OF TUBE	ASME B16.22, WROUGHT–DWV COPPER PRESSURE FITTINGS	–
ABOVE GROUND PROPANE GAS PIPING	1/4" – 2"	SCHEDULE 40 BLACK STEEL PIPE, ASTM A53	THREADED	BLACK MALLEABLE–IRON THREADED FITTINGS ASME B16.3 150# CLASS STANDARD PATTERN	ALL PIPING MATERIALS TO BE IN ACCORDANCE WITH N.F.P.A. 54
ABOVE GROUND PROPANE GAS PIPING	2–1/2" & LARGER	SCHEDULE 40 BLACK STEEL PIPE, ASTM A53	BUTT WELDED OR SOCKET WELDED	WROUGHT BLACK STEEL FITTINGS, ASTM A234	ALL GAS PIPING MATERIALS 2–1/2" & LARGER SHALL BE WELDED IN ACCORDANCE WITH N.F.P.A. 54, A.G.A. & N.B.F.U.

WASTE WATER PUMP SCHEDULE

SYMBOL	MANUFACTURER MODEL NUMBER	TYPE	LOCATION	SYSTEM SERVED	CAPACITY GPM	CAPACITY FT OF HEAD	WATER TEMP (F°)	ELECTRICAL DATA	NOTES
WWP1	LIBERTY PUMPS MODEL # 404	S	STAFF LOUNGE 2209	CLEAR WASTE WATER	10	17	120°F	.33 HP/120V/1 PH	#1

TYPES:
IL = IN–LINE PUMP
FM = FLOOR MOUNTED
S = SUBMERSIBLE
G = GRINDER

NOTES:
1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO PROVIDE A COMPLETE SIMPLEX PRE PACKAGED PUMPING SYSTEM. UNIT SHALL CONSIST OF A POLYOLEFIN BASIN WITH INTEGRAL MOLDED RUBBER GASKET FOR GAS TIGHT SEAL, SHUT OFF VALVES, SUBMERSIBLE PUMP WITH INTEGRAL CHECK VALVES, 10 FOOT POWER CORD.

HOT WATER RECIRCULATION PUMP SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER MODEL NUMBER	LOCATION	FLANGE DIAMETER	GPM (MAX)	HEAD (MAX)	PUMP		MOTOR			NOTES
							EFF.	RPM	HP	VOLTS	PHASE	
RP1	INLINE	TACO–008	EXIST MECH ROOM 16	3/4"	12.5	15	50%	3250	1/25	120	1	1,2

NOTES:
1. COMBINATION AUTOMATIC TIMER & AQUASTAT KIT:. ELECTRICAL POWER REQUIREMENT FOR AUTOMATIC TIME KIT; 115/120VAC, 60HZ, 1PH.
2. MOUNT AQUASTAT ON SUCTION SIDE OF HOT WATER RECIRCULATION PUMP.

GENERAL NOTES:
1. PUMP SELECTION BASED ON TACO EQUIVALENT MANUFACTURERS BY ARMSTRONG AND BELL AND GOSSETT.
2. PUMP SHALL BE OF ALL BRONZE CONSTRUCTION & APPROVED FOR POTABLE DOMESTIC WATER USE.

SEQUENCE OF OPERATION:
–AUTOMATIC TIMER ENERGIZES PUMP "ON" AT: 2 HOURS PRIOR TO NORMAL HOURS OF OPERATION/FACILITY OPENING – (COORDINATE TIMES WITH OWNER)
–AUTOMATIC TIMER DE–ENERGIZES PUMP "OFF" AT: 1 HOUR AFTER NORMAL HOURS OF OPERATION/FACILITY CLOSING – (COORDINATE TIME WITH OWNER)

WHEN AUTOMATIC TIMER IS IN THE "OFF" POSITION: THE PUMP WILL NOT RUN.
WHEN THE AUTOMATIC TIMER IS IN THE "ON" POSITION: THE PUMP WILL RUN CONTINUOUSLY UNTIL, AQUASTAT SENSES SYSTEM TEMPERATURE IS HOT (AQUASTAT HOT TEMPERATURE SETTING TO BE 120°F). PUMP WILL BE CYCLED "OFF" UNTIL SYSTEM IS COLD (AQUASTAT COLD TEMPERATURE SETTING IS 100°F).

PLUMBING WATER SPECIALTIES SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	ACCESSORIES AND TRIM	REMARKS
B1	BALANCING VALVE	B&G CIRCUIT SETTER SERIES CB	BALANCING VALVE: LEAD FREE, CALIBRATED, STAINLESS STEEL BALL, INTERNAL INSERTS/CHECK VALVES	–	#1,2
HB1	HOSE BIB	WOODFORD MODEL # Y2	YARD HYDRANT: ASSE 1052, BACKFLOW PROTECTED, AUTOMATIC DRAINING, FREEZE–LESS YARD HYDRANT, 1 1/4–INCH GALV STEEL PIPE CASING, 1–INCH FEMALE INLET, 3/4–INCH MALE HOSE THREADED OUTLET	BURIED DEPTH 5 FEET	#2
RPBP1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS MODEL # UP TO 1" LF909 1 ¼" TO 2" LF909M1 2 ½" AND OVER LF909	REDUCED PRESSURE BACKFLOW PREVENTER: ASSE 1013, LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY, PRESSURE DIFFERENTIAL RELIEF VALVE BETWEEN TWO POSITIVE SEATING CHECK VALVES.	SHUT–OFF VALVES, AIR GAP FITTING, STRAINER, TEST COCKS.	#1,2,3,4
WHYD	WALL HYDRANT	WOODFORD MODEL # B65	WALL HYDRANT: FREEZELESS WALL HYDRANT SELF DRAINIG, LOCKABLE POLISHED BRASS BOX	VACUUM BREAKER, LOOSE TEE KEY.	# 2

REMARKS:
1. REFER TO FLOOR PLANS FOR SIZES.
2. PROVIDE ISOLATION VALVE ON WATER SUPPLY.
3. PROVIDE AIR GAP FITTING AND PIPE DRAIN TO NEAREST FLOOR DRAIN.
4. MOUNT MAX OF 5'–0" ABOVE FINISHED FLOOR.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	ACCESSORIES AND TRIM	REMARKS
P1	WATER CLOSET	AMERICAN STANDARD "CADET PRO" MODEL # 215AA.004	ACCESSIBLE. RIGHT HEIGHT, FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, 12–INCH ROUGH, TANK TYPE WITH INSULATED TANK AND CHROME TRIP LEVER WATER CLOSET, 16–1/2" RIM HEIGHT, 1.30 GPF	ELONGATED TOILET SEAT SOLID WHITE POLYPROPYLENE PLASTIC WITH CLOSED FRONT, COVER AND SELF–SUSTAINING HINGE, ANTI–MICROBIAL AGENT FORMED INTO THE PLASTIC, AMERICAN STANDARD MODEL # 5350.110	#1,2,5,6,9
P2	LAVATORY	SLOAN "AER–DEC" MODEL # AD–81000	ACCESSIBLE: 1 STATION LAV SYSTEM, WALL HUNG, CORIAN, 30–INCHES WIDE.	CHROME PLATED SENSOR OPERATE FAUCET, CHOME PLATED SENSOR ACTIVATED SOAP DISPENSER, INTEGRAL HEATED HAND DRYER (2000 WATTS), BACKING WALL SUPPORT.	#2,5,6,7,8,10
P3	SINK	JUST "STYLIST GROUP A" MODEL # SL–ADA–2125–A–GR	ACCESSIBLE: ASME A112.19.3 25"x21"x5.5" DEEP, COUNTER MOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE BOWL WITH 3–1/2–INCH DRAIN LOCATED BACK OF BOWL, JUST GRID STRAINER J–35–SSF.	SINGLE LEVER KITCHEN FAUCET, EXTRA LONG HANDLE, LIMIT STOPS, 8–3/4–INCH SWING SPOUT WITH AERATOR, POLISHED CHROME FINISH, 1.5 GPM. SYMMONS MODEL # S–23–W, STRAINER, TAIL PIECE, 3/8" COPPER SUPPLIES AND LOCKSHIELD LOOSE KEY STOPS, P–TRAP WITH CLEANOUT.	#2,3,5,6,7
P4	WATER CLOSET	AMERICAN STANDARD "CADET PRO" MODEL # 215CA.104	STANDARD. FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, 12–INCH ROUGH, TANK TYPE WITH INSULATED TANK AND CHROME TRIP LEVER WATER CLOSET, 15" RIM HEIGHT, 1.28 GPF	ELONGATED TOILET SEAT SOLID WHITE POLYPROPYLENE PLASTIC WITH CLOSED FRONT, COVER AND SELF–SUSTAINING HINGE, ANTI–MICROBIAL AGENT FORMED INTO THE PLASTIC, AMERICAN STANDARD MODEL # 5350.110	#1,5,6
P5	URINAL	AMERICAN STANDARD "WASHBROOK" MODEL # 6590.001EC	ACCESSIBLE: WALL HUNG, VITREOUS CHINA, WASHOUT URINAL, 3/4" TOP SPUD, .125 GPF, WITH EVERCLEAN	FLUSH VALVE, .125 GPF, DIAPHRAGM TYPE, HIGH EFFICIENCY, CHROME PLATED, EXPOSED MANUAL, VACUUM BREAKER, OSCILLATING HANDLE, SLOAN MODEL #186–0.125, JR SMITH WALL CARRIER SERIES 600.	#1,2,4,5,6
P6	ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY MODEL # LZWS–LRPBM2BK	DUEL HEIGHT 18 GAUGE, TYPE 304 STAINLESS STEEL WATER COOLER, FRONT PUSH BUTTON, 8 GPH CHILLER CAPACITY, WATER FILTER SYSTEM, BOTTLE FILL STATION ABOVE LOWER BOWL, VISUAL FILTER MONITOR, ELECTRONIC BOTTLE FILL SENSOR	WALL MOUNTING FRAME.	#5,6
P7	LAUNDRY TUB	FIAT PRODUCTS MODEL # TAT1	SINGLE BOWL LAUNDRY TUB WITH LEGS, 20"x24", HEAVY DUTY POLYETHYLENE MATERIAL, PROVIDE WITH GRID DRAIN, 3/8" COPPER SUPPLIES AND LOCKSHIELD LOOSE KEY STOPS, P–TRAP WITH CLEANOUT	FAUCET: CHROME PLATED, 4–INCH CENTERS, TWO LEVER HANDLE, 2.0 GPM, ZURN MODEL # Z812M2, CHROME GRID DRAIN.	#1,5,6,7

REMARKS:
1. FIXTURE SHALL BE WHITE.
2. FIXTURE SHALL BE ADA ACCESSIBLE AND SHALL MEET ALL OF THE REQUIREMENTS OF ANSI A117.1.
3. PROVIDE FIXTURE WITH ADA PIPE INSULATION ON P–TRAP AND STOPS, TRUEBRO MODEL # 102.
4. PROVIDE WITH WATER HAMMER ARRESTOR.
5. PROVIDE ISOLATION VALVE ON WATER SUPPLY.
6. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.
7. PROVIDE WITH GRID STRAINER, TAIL PIECE, 3/8" COPPER SUPPLIES, LOOSE KEY STOPS, P–TRAP WITH CLEANOUT.
8. PROVIDE WITH POINT OF USE MIXING VALVE.
9. PROVIDE RIGHT SIDE TRIP LEVER IN EXISTING MENS 14 AND WOMENS 15 TOILET ROOMS ON ADA TOILETS.
10. COLOR AS SELECTED BY THE ARCHITECT.

PLUMBING DRAIN SPECIALTIES SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	ACCESSORIES AND TRIM	REMARKS
FCO1	FLOOR CLEANOUT	JR SMITH MODEL # 4021S–PB	FLOOR CLEANOUT: DUCO CAST IRON BODY WITH FLASHING CLAMP, ADJUSTABLE SCORIATED POLISHED BRONZE TOP, BRONZE PLUG.	–	# 1
FGCO1	FINISHED GRADE CLEANOUT	JR SMITH MODEL # 4253S	FINISHED GRADE CLEANOUT: DUCO CAST IRON BODY WITH FLASHING CLAMP, ADJUSTABLE SCORIATED POLISHED BRONZE TOP.	–	# 1
FLD1	FLOOR DRAIN	JR SMITH MODEL # 2120Y–P050–B	FLOOR DRAIN: DUCO CAST IRON BODY WITH FLASHING COLLAR, CAST IRON TRACTOR GRATE	SEDIMENT BUCKET, TRAP PRIMER CONNECTION	# 1,2
TG1	TRAP GUARD	JR SMITH MODEL # 2692	INLINE FLOOR DRAIN TRAP SEAL, ABS PLASTIC HOUSING WITH EPDM RUBBER DIAPHRAGM AND SOFT RUBBER SEALING GASKET.		#1

REMARKS:
1. REFER TO FLOOR PLANS FOR SIZES.
2. PROVIDE WITH TRAP GUARD TG1 UNLESS NOTED OTHERWISE.

PLUMBING PIPING LEGEND

—CW— - —	COLD WATER
—HW— - —	HOT WATER
—HWR— - —	HOT WATER RECIRCULATION
———	WASTE, SANITARY OR SOIL
— — —	WASTE, SANITARY, SOIL BURIED
- - - - -	VENT
——CD——	CONDENSATE WASTE
——CPD——	CONDENSATE WASTE – PUMP DISCHARGE
——IW——	INDIRECT WASTE
——LPG——	LIQUID PETROLEUM GAS SUPPLY
——WS——	WATER SERVICE
——◄——	DIRECTION OF FLOW
//////	EXISTING PIPING TO BE REMOVED
——○	PIPE DOWN
——⊙	PIPE DROP
——○	PIPE RISE
——⊏	PLUGGED OR CAPPED PIPE
——⊢	CLEANOUT
——◎	FLOOR CLEANOUT

PLUMBING SYMBOL LEGEND

	TEMPERATURE GAUGE
	PRESSURE GAUGE
	WATER HAMMER ARRESTER
OR	STRAINER – 'Y' TYPE
	P–TRAP
	FLOOR DRAIN
	FLOOR SINK
TP	TRAP PRIMER
	UNION
	PETCOCK
	BALANCING VALVE
	BALL VALVE
	CURB GATE VALVE & BOX
	CHECK VALVE
	BACKFLOW PREVENTER (DOUBLE CHECK VALVE TYPE)
	BACKFLOW PREVENTER ASSEMBLY (RPD W/ DRAIN PIPING)
	THERMOSTATIC MIXING VALVE
	SOLENOID VALVE
	GATE VALVE
	GAS VALVE (BALL OR PLUG)
	OUTSIDE SCREW & YOKE (OS&Y) GATE VALVE
	VALVE IN PIPE RISER
	ANGLE VALVE
	HOSE BIBB (H.B.)
	GAS PRESSURE REGULATOR
	TEMPERATURE & PRESSURE RELIEF VALVE (T&P)
	CIRCULATOR PUMP
	CONNECT TO EXISTING

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BFP	BACKFLOW PREVENTER DEVICE
BTU	BRITISH THERMAL UNIT
C, CW	COLD WATER
CO	CLEANOUT
CP	CIRCULATOR PUMP
CFH	CUBIC FEET PER HOUR
CTE	CONNECT TO EXISTING
COND	CONDENSATE
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXP	EXPANSION TANK
FLD	FLOOR DRAIN
FS	FLOOR SINK
FCU	FAN COIL UNIT
GI	GREASE INTERCEPTOR
GW	GREASE WASTE
GV	GAS VENT
G	GAS
GPM	GALLONS PER MINUTE
GSV	GAS SOLENOID VALVE
HW	HOT WATER
HB	HOSE BIBB
HC	HANDICAP ACCESSIBLE
HWR	HOT WATER RECIRCULATION
IW	INDIRECT WASTE
INV. ELEV.	INVERT ELEVATION
LAV	LAVATORY
MBH	THOUSAND B.T.U. PER HOUR
NIC	NOT IN CONTRACT
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RPD	REDUCED PRESSURE BACKFLOW PREVENTER
RTU	ROOF TOP UNIT
SAN	SANITARY
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UH	UNIT HEATER
UR	URINAL
V	VENT
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WHYD	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR

LYMES' SENIOR CENTER RENOVATION

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JOB #: 790
DRAWN BY:
CHECKED BY:
ISSUE DATE: JULY 19, 2023

Revisions

No.	Date	Description

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SCALE: As indicated

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P2.0

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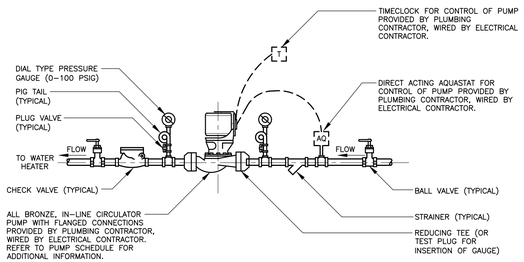
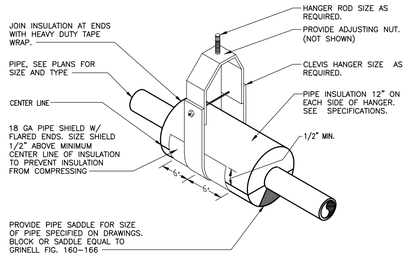
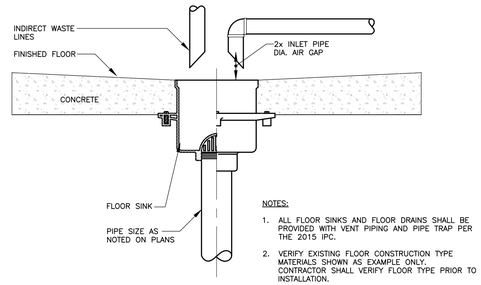


1 DOMESTIC HOT WATER SYSTEM IN-LINE CIRCULATING PUMP DETAIL
N.T.S.

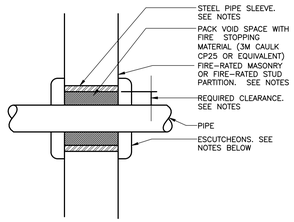


3 PIPE HANGER DETAIL
N.T.S.



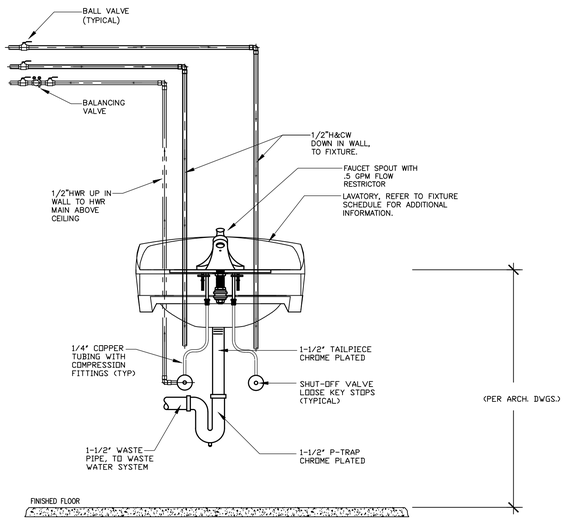
NOTES:
1. ALL FLOOR SINKS AND FLOOR DRAINS SHALL BE PROVIDED WITH VENT PIPING AND PIPE TRAP PER THE 2015 IPC.
2. VERIFY EXISTING FLOOR CONSTRUCTION TYPE MATERIALS SHOWN AS EXAMPLE ONLY. CONTRACTOR SHALL VERIFY FLOOR TYPE PRIOR TO INSTALLATION.

3 TYPICAL INDIRECT WASTE PIPE TO FLOOR DRAIN DETAIL
N.T.S.



NOTES:
1. PIPE SLEEVES THROUGH RATED WALLS
   A. PIPE SLEEVES THROUGH FIRE-RATED MASONRY PARTITIONS OR FOUNDATION WALLS SHALL BE SCHEDULE 80 BLACK STEEL WITH MAXIMUM OF 1/2" CLEARANCE BETWEEN SLEEVE AND PIPE. SLEEVE SHALL BE EQUAL IN LENGTH TO DEPTH OF PARTITION OR WALL.
   B. PIPE SLEEVES THROUGH FIRE-RATED STUD PARTITIONS SHALL BE #18 GAGE GALVANIZED STEEL WITH MAXIMUM OF 1" CLEARANCE BETWEEN SLEEVE AND PIPE. SLEEVE SHALL BE EQUAL IN LENGTH TO DEPTH OF PARTITION.
2. ESCUTCHEONS
   A. ESCUTCHEONS IN FINISHED SPACES SHALL BE ANODIZED ALUMINUM OR CHROME-PLATED BRASS.
   B. ESCUTCHEONS IN UNFINISHED SPACES SHALL BE PLAIN BRASS, ALUMINUM, GALVANIZED STEEL OR CAST IRON.
   C. ESCUTCHEONS SHALL BE HELD IN PLACE BY INTERNAL SPRING TENSION OR SET SCREW.

4 FIRE RATED WALL PENETRATION DETAIL
N.T.S.



5 TYPICAL WALL HUNG LAVATORY WITH MANUAL FAUCET PIPING DIAGRAM
N.T.S.

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PLUMBING SPECIFICATIONS

TECHNICAL REQUIREMENTS

THESE SPECIFICATIONS CALL OUT CERTAIN DUTIES OF THE CONTRACTOR AND HIS SUBCONTRACTOR. THEY ARE NOT INTENDED AS SUBCONTRACT DOCUMENTS, NOR ARE THEY INTENDED AS A MATERIAL LIST OF ITEMS REQUIRED BY THE CONTRACT.

PROVIDE ALL ITEMS AND WORK CALLED FOR IN THIS DIVISION OF THE SPECIFICATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS INCLUDES ALL INCIDENTALS, EQUIPMENT, APPLIANCES, SERVICES; HOISTING, SCAFFOLDING, SUPPORTS, TOOLS; SUPERVISION, LABOR, CONSUMABLE ITEMS, FEES, LICENSES, ETC., NECESSARY TO PROVIDE COMPLETE SYSTEMS. PERFORM START UP AND CHECK OUT EACH ITEM AND SYSTEM TO PROVIDE FULLY OPERABLE SYSTEMS.

INTENT OF DRAWINGS

IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO REQUIRE FINISHED WORK, TESTED AND READY FOR OPERATION.

IT IS NOT INTENDED THAT CONTRACT DOCUMENTS SHOW EVERY PIPE, FITTING AND APPURTENANCE; HOWEVER, SUCH PARTS AS MAY BE NECESSARY TO COMPLETE THE SYSTEMS IN ACCORDANCE WITH BEST TRADE PRACTICE AND CODE REQUIREMENTS AND TO ARCHITECT'S SATISFACTION SHALL BE DEEMED TO BE INCLUDED.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DO NOT SCALE THE DRAWINGS.

CODES AND STANDARDS – CONNECTICUT

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL AND STATE ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, LATEST EDITIONS.

SHOULD THE PLUMBING SUBCONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES, AS APPROVED BY THE ARCHITECT/OWNER.

APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, AND THE APPLICABLE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND STANDARDS, WITHOUT LIMITING THE NUMBER, AS FOLLOWS:

CSBC – CONNECTICUT STATE BUILDING CODE (2022 EDITION).

CSFSC – CONNECTICUT STATE FIRE SAFETY CODE (2022 EDITION).

CSFPC – CONNECTICUT STATE FIRE PREVENTION CODE (2022 EDITION).

IBC – INTERNATIONAL BUILDING CODE (2021 EDITION).

IPC – INTERNATIONAL PLUMBING CODE (2021 EDITION) WITH 2022 CONNECTICUT AMENDMENTS.

IMC – INTERNATIONAL MECHANICAL CODE (2021 EDITION) WITH 2022 CONNECTICUT AMENDMENTS.

IECC – INTERNATIONAL ENERGY CONSERVATION CODE (2021 EDITION) WITH 2022 CONNECTICUT AMENDMENTS.

NFPA 1 – FIRE CODE (2021 EDITION).

NFPA 54, NATIONAL FUEL GAS CODE, (2021 EDITION) WITH 2022 CONNECTICUT AMENDMENTS.

NFPA 70: NATIONAL ELECTRICAL CODE, (2020 EDITION) WITH 2022 CONNECTICUT AMENDMENTS.

NFPA 101 – LIFE SAFETY CODE – (2021 EDITION).

ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (2017 EDITION) WITH 2022 CONNECTICUT AMENDMENTS.

ASHRAE 90.1– (2017 EDITION)

ASME/A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS – (2013 EDITION).

DEPARTMENT OF ENVIRONMENTAL PROTECTION.

ENVIRONMENTAL PROTECTION AGENCY.

AWWA STANDARDS.

U.L. COMPLIANCE.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

COMPLY WITH REQUIREMENTS OF LOCAL UTILITY COMPANY.

COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS. COMPLY WITH ALL FEDERAL, STATE, CITY, INSURANCE UNDERWRITERS AND OTHER APPLICABLE CODES AND ORDINANCES. IF ANY CONFLICT ARISES BETWEEN THESE SPECIFICATIONS, CODES AND ORDINANCES, IMMEDIATELY NOTIFY THE ENGINEER. DO NOT DEVIATE FROM THE SPECIFICATIONS NOR INSTALL ANY WORK WHICH MAY BE IN CONFLICT WITH CODES AND ORDINANCES UNTIL THE CONFLICT IS RESOLVED AND THE SOLUTION APPROVED BY THE ENGINEER.

SUBMITTALS

SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA, INCLUDING RATED CAPACITIES OF SELECTED MODEL CLEARLY INDICATED, FURNISHE SPECIALTIES AND ACCESSORIES; AND INSTALLATION INSTRUCTIONS.

SUBMIT PRODUCT DATA FOR EACH TYPE OF PLUMBING FIXTURE INDICATED. INCLUDE SELECTED FIXTURE AND TRIM, FITTINGS, ACCESSORIES, APPURTENANCES, EQUIPMENT, AND SUPPORTS. INDICATE MATERIALS AND FINISHES, DIMENSIONS, CONSTRUCTION DETAILS, AND FLOW-CONTROL RATES

SHOP DRAWINGS: SUBMIT MANUFACTURER'S ASSEMBLY TYPE SHOP DRAWINGS INDICATING DIMENSIONS, ROUGHING-IN REQUIREMENTS, REQUIRED CLEARANCES, AND METHODS OF ASSEMBLY OF COMPONENTS AND ANCHORAGES.

MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LISTS FOR EACH TYPE OF PLUMBING FIXTURE AND ACCESSORY; INCLUDING "TROUBLE SHOOTING" MAINTENANCE GUIDE. INCLUDE THIS DATA, PRODUCT DATA AND SHOP DRAWINGS IN MAINTENANCE MANUAL.

MAKE SUBMITTALS OF SHOP DRAWINGS OF ALL PLUMBING EQUIPMENT AS FOLLOWS:

PIPING, FITTINGS AND JOINTS
VALVES
HANGERS AND SUPPORTS
FIXTURES
SPECIALTIES

CERTAIN TERMS SUCH AS "SHALL PROVIDE, INSTALL, COMPLETE, START-UP" ARE NOT USED IN SOME PARTS OF THESE SPECIFICATIONS. THIS DOES NOT INDICATE ITEMS SHALL BE LESS THAN COMPLETELY INSTALLED OR THAT SYSTEMS SHALL BE LESS THAN COMPLETE.

UPON COMPLETION OF SHOP DRAWING REVIEW, SHOP DRAWINGS WILL BE RETURNED, MARKED WITH ONE OF FOLLOWING NOTATIONS: NO EXCEPTION TAKEN, APPROVED AS NOTED, REVISE AND RESUBMIT, OR REJECTED. ONLY PRODUCTS WHO'S SHOP DRAWINGS ARE MARKED NO EXCEPTION TAKEN OR APPROVED AS NOTED SHALL BE USED ON THE PROJECT.

VALVE DATA: CERTIFICATION THAT PRODUCTS COMPLY WITH NSF 61 ANNEX G, SUBMIT MANUFACTURERS CATALOG INFORMATION WITH VALVE DATA AND RATINGS FOR EACH SERVICE, SUBMIT HANGING AND SUPPORT METHODS, JOINING PROCEDURES, CERTIFY PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.

QUALITY ASSURANCE

UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS REQUIRED FOR INSTALLATION UNDER THESE SPECIFICATIONS SHALL BE NEW, UNUSED AND WITHOUT BLEMISH OR DEFECT. EQUIPMENT AND MATERIALS SHALL BE PRODUCTS WHICH WILL MEET WITH THE ACCEPTANCE OF THE AUTHORITIES HAVING JURISDICTION OVER THE WORK AND AS SPECIFIED HEREINBEFORE. WHERE SUCH ACCEPTANCE IS CONTINGENT UPON HAVING THE PRODUCTS LISTED AND/OR LABELED BY FM OR UL OR ANOTHER TESTING LABORATORY, THE PRODUCTS SHALL BE SO LISTED AND/OR LABELED. WHERE NO INDICATION AS TO THE TYPE OR QUALITY OF MATERIAL OR EQUIPMENT IS INDICATED, A FIRST CLASS STANDARD ARTICLE SHALL BE PROVIDED.

FOR DRINKING WATER SERVICE, PROVIDE VALVES COMPLYING WITH NSF 61.

ALL VALVES INSTALLED ON THE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL COMPLY WITH SDWA 1417.

ALL VALVE MANUFACTURERS SHALL DEMONSTRATE THAT VALVE PRODUCTS HAVE BEEN CERTIFIED PER NSF/ANSI STANDARD 372.

ALL VALVES INSTALLED ON THE DOMESTIC WATER SYSTEM SHALL HAVE LABELING OF LEAD CONTENT ENGRAVED ON THE VALVE BODY.

DELIVERY, STORAGE AND HANDLING

PREPARE ALL PLUMBING COMPONENTS FOR SHIPPING, COORDINATE WITH THE OWNER AND GENERAL CONTRACTOR LOCATIONS FOR STORING PLUMBING EQUIPMENT UPON SITE. ALL DELIVERY OF PLUMBING EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

PERMITS AND FEES

PLUMBING SUBCONTRACTOR FOR THE WORK IN HIS SCOPE OF WORK SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY ALL GOVERNMENTAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH HIS WORK; FILE FOR NECESSARY APPROVALS WITH THE JURISDICTION UNDER WHICH THE WORK IS TO BE PERFORMED. PLUMBING SUBCONTRACTOR SHALL OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS RESPECTIVE WORK AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE OF HIS PORTION OF WORK IS MADE AND BEFORE FINAL PAYMENT.

ADJUSTMENTS

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING ADJUSTMENT PROCEDURES:

ADJUST SYSTEMS COMPONENTS FOR PROPER PERFORMANCE.
OPEN AND CLOSE VALVES, SET IN PROPER OPERATING POSITION.

ACCESSIBILITY

PLACE VALVES, UNIONS, DRAINS, AND ITEMS REQUIRING MAINTENANCE, ADJUSTMENT, OR REPAIR, IN ACCESSIBLE LOCATIONS: COORDINATE ACCESS PANELS WITH ARCHITECT.

APPROVALS

OBTAIN INSURANCE SERVICE'S OFFICE APPROVAL OF WORKING DRAWINGS. OBTAIN CERTIFICATES OF APPROVAL FROM FIRE ADMINISTRATION OFFICIAL.

REFERENCE PUBLICATIONS

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) AND AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATIONS ARE REFERRED TO HEREIN, BECAUSE THESE PUBLICATIONS ARE REVISED FREQUENTLY, DATES FOLLOWING PUBLICATION NUMBERS HAVE BEEN OMITTED. REFER TO LATEST EDITION.

COORDINATION OF WORK

PLUMBING SYSTEMS SHALL BE COMPLETELY OPERATIONAL UPON COMPLETION OF WORK. TEST AND ENSURE THAT ALL PLUMBING SYSTEMS ARE OPERATIONAL.

CAREFULLY CHECK SPACE REQUIREMENTS WITH OTHER TRADES TO ENSURE THAT ALL MATERIALS CAN BE INSTALLED IN THE SPACES ALLOTTED THERETO, INCLUDING FINISHED SUSPENDED CEILING.

TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.

WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH OTHER TRADES TO ENSURE THAT ALL TRADES HAVE THE INFORMATION NECESSARY SO THEY MAY PROPERLY INSTALL ALL THE NECESSARY CONNECTIONS AND EQUIPMENT. IDENTIFY ALL WORK ITEMS (VALVES, DRAINS, ETC.) IN AN APPROVED MANNER IN ORDER THAT THE CEILING SUBCONTRACTOR WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.

CONSULT WITH OTHER TRADES REGARDING EQUIPMENT SO, WHEREVER POSSIBLE, MOTORS AND CONTROLS ARE OF THE SAME MANUFACTURER.

FURNISH AND SET ALL SLEEVES FOR PASSAGE OF PIPES THROUGH STRUCTURAL MASONRY AND CONCRETE WALL AND FLOORS, AND ELSEWHERE AS WILL BE REQUIRED FOR THE PROTECTION OF EACH PIPE PASSING THROUGH BUILDING SURFACES.

PROVIDE REQUIRED SUPPORTS AND HANGERS FOR PIPING, FIXTURES AND EQUIPMENT, SO LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE.

CONFORM THE PLUMBING WORK TO THE REQUIREMENTS HEREIN. PROVIDE OFFSETS, FITTINGS, DRAINS, AND ACCESSORIES WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK, AND ARRANGE THE WORK ACCORDINGLY. PROVIDE SUCH PIPING, FITTINGS, VALVES AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.

ELECTRICAL CONNECTIONS

POWER SUPPLY AND WIRING WILL BE PROVIDED UNDER DIVISION 22.

TO FACILITATE ELECTRICAL CONNECTIONS, EQUIP ELECTRICAL ITEMS WITH NEMA ENCLOSURES HAVING ADEQUATE KNOCKOUTS, CONNECTORS, TERMINAL BLOCKS AND/OR CONTACTS.

PIPING IDENTIFICATION

CONSPICUOUSLY IDENTIFY NEW PIPING WITH SELF-ADHERING VINYL PLASTIC COLOR BANDS AND PIPE MARKERS IMPRINTED WITH LEGEND, BASED ON ANSI A13.1 "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS".

MINIMUM LETTER SIZE:

1/2" FOR PIPING 3/4" TO 1-1/4" OD
3/4" FOR PIPING 1-1/2" TO 2" OD
1-1/4" FOR PIPING 2-1/2" TO 6" OD

MINIMUM COLOR BAND WIDTH:

8" FOR PIPING 3/4" TO 2" OD
12" FOR PIPING 2-1/2" TO 6" OD

OPERATING INSTRUCTIONS

INSTRUCT OWNER'S OPERATING PERSONNEL ON PROPER CARE, MAINTENANCE AND OPERATING PROCEDURES.

MAINTENANCE MANUAL

INCLUDE FOLLOWING IN MANUALS:

MANUFACTURER'S DESCRIPTIVE DATA
OPERATION AND MAINTENANCE INSTRUCTIONS
REPLACEMENT PART LISTS
WIRING DIAGRAMS
MANUFACTURER'S WARRANTY & SERVICE CERTIFICATES
INSTRUCTIONS FOR PERIODIC CLEANING AND MAINTENANCE
PROCEDURES FOR SYSTEMS START-UP AND SHUT-DOWN
VALVE LOCATION AND TAG NUMBER CHARTS

CLEANING

CLEAN PIPING PRIOR TO PAINTING.

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING CLEANING PROCEDURES:

REMOVE PROTECTIVE COVERS AFTER PAINTING
CLEAN PIPING AND EQUIPMENT
REMOVE SURPLUS MATERIALS AND RUBBISH
RESTORE DAMAGED SURFACE FINISHES

ADJUSTMENTS

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING ADJUSTMENT PROCEDURES:

ADJUST SYSTEMS COMPONENTS FOR PROPER PERFORMANCE
OPEN AND CLOSE VALVES, SET IN PROPER OPERATING POSITION.
SEAL CONTROL VALVES OPEN

GUARANTEE

SUPPLY TWO COPIES OF A WARRANTY COUNTERSIGNED AND GUARANTEED BY CONTRACTOR, STATING THAT IMPERFECT SYSTEM OPERATION AND ALL DEFECTS IN LABOR AND MATERIALS OF PLUMBING WORK WILL BE REPAIRED WITHOUT COST TO OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION, AND STATING THAT ALL PLUMBING EQUIPMENT HAS BEEN FULLY SERVICED AND LEFT IN PROPER OPERATING CONDITION.

ALSO GUARANTEE THAT SERVICING WILL BE PROVIDED WITHOUT COST DURING GUARANTEE PERIOD.

PIPE SLEEVE INSTALLATION

PROVIDE FOR PIPING PASSING THROUGH WALLS, PARTITIONS AND SLAB, SLEEVES SIZED AT LEAST 1 INCH LARGER THAN OD OF PIPE.

SLEEVES ARE REQUIRED FOR PIPING PASSING THROUGH FIRE-RATED WALLS CONSTRUCTED OF METAL STUDS AND GYPSUM WALLBOARD.

TERMINATE SLEEVES THROUGH WALLS, PARTITIONS AND CEILINGS FLUSH WITH FINISHED SURFACES: THROUGH SLABS 1/2" ABOVE FLOOR FINISH IN HABITABLE SPACES AND 2" ABOVE ROUGH FINISH IN PIPE SPACES AND OTHER UNFINISHED AREAS.

SET SLEEVES IN PLACE BEFORE PLACING CONCRETE, OR SECURELY FASTEN AND GROUT IN PLACE WITH CONCRETE. EXERCISE CARE IN LOCATING AND SETTING OF SLEEVES TO ASSURE ACCURATE ALIGNMENT. IN ABSENCE OF SLEEVES, USE CORE DRILLED HOLES AND PROVIDE CURBS TO PREVENT PASSAGE OF WATER.

FILL VOID SPACES BETWEEN PIPING AND PIPE SLEEVES WITH PENETRATION SEAL, OR APPROVED ELASTROMERIC CAULKING MATERIALS.

FIRE STOPPING

FILL VOID SPACE BETWEEN PIPING AND PIPING SLEEVES WITH DOW CORNING 3 – 6548 RTV SILICONE FOAM, OR WITH FIBROUS GLASS SEALED WITH FIRE TESTED AND APPROVED ELASTOMERIC CAULKING MATERIALS.

PIPE HANGER COMPONENTS AND SUPPORT INSTALLATION (GENERAL)

CARBON-STEEL PIPE HANGERS AND SUPPORTS, MSS SP-58. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF CARBON STEEL.

COPPER PIPE HANGERS, MSS SP-58, TYPES 1 THROUGH 58, COPPER-COATED-STEEL, FACTORY-FABRICATED COMPONENTS. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF STAINLESS STEEL.

INSTALL HANGERS AND SUPPORTS COMPLETE WITH NECESSARY ATTACHMENTS, INSERTS, BOLTS, RODS, NUTS, WASHERS, AND OTHER ACCESSORIES.

INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS, AND SIMILAR UNITS.

INSTALL MSS SP-58, TYPE 39, PROTECTION SADDLES IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION THAT MATCHES ADJOINING INSULATION.

INSTALL MSS SP-58, TYPE 40, PROTECTIVE SHIELDS ON COLD PIPING WITH VAPOR BARRIER. SHIELDS SHALL SPAN AN ARC OF 180 DEGREES.

DO NOT SUPPORT PIPING FROM OTHER PIPING OR DUCTWORK. DO NOT USE WIRE, TAPE, METAL BAND, OR OTHER MAKE-SHIFT DEVICES AS MEANS OF SUPPORT OR ATTACHMENT.

COMPONENTS: DESIGNED WITH MINIMUM SAFETY FACTOR OF 5; OF ALL METAL CONSTRUCTION; ASSEMBLED WITH CORROSION RESISTANT SQUARE HEAD MACHINE BOLTS AND SQUARE OR HEX HEAD NUTS, STEEL WASHERS; IN SUCH A MANNER AS TO PREVENT SELF-DISENGAGEMENT.

PIPE ATTACHMENTS: CAPABLE OF VERTICAL ADJUSTMENT UNDER LOAD, SHAPED TO OD IF PIPING, SIZED ALLOW CONTINUOUS INSULATION.

SURFACE FINISH – GENERALLY: CORROSION RESISTANT PAINT COATING.

SURFACE FINISH – UNINSULATED COPPER AND BRASS PIPING; COPPER-PLATED OR PLASTIC COATED.

SURFACE FINISH – CHROME PLATED PIPING: CHROME PLATED.

PIPE HANGER MATERIAL STANDARDS

BOLTING – ASTM A307, GRADE A
CAST IRON – ASTM A48, GRADE 30
FORGOINGS – AST, A521, GRADE CA
MALLEABLE IRON – ASTM A47, ASTM A197
STEEL – ASTM A36, ASTM A569, ASTM A570
STEEL PIPE – ASTM A53, ASTM A120
STEEL ROD – ASTM A36, ASTM A575

PIPE SLEEVES

INTERIOR PARTITIONS: #20 GAGE GALVANIZED STEEL, LOCK SEAM JOINT.

INTERIOR MASONRY WALL AND SLABS: SCHEDULE 40 GALVANIZED STEEL PIPE.

ESCUTCHEONS

PROVIDE ESCUTCHEONS ON PIPE PROTRUSIONS AT WALLS, PARTITIONS, CEILING AND FLOORS. ESCUTCHEONS SHALL FIT SNUGLY AROUND PIPING AND COVER SURFACE OPENING

ACOUSTICAL SURFACES: FACTORY PAINTED TO MATCH SURFACE SHEET STEEL.

PREFINISHED SURFACES: CHROME PLATED CAST BRASS.

PAINTED SURFACES: PRIME COATED SHEET METAL

PIPE SLEEVES, SEALS AND ADAPTERS

INTERIOR PARTITIONS: #20 GAUGE GALVANIZED STEEL, LOCK SEAM JOINT

METAL FRAMING

MATERIAL: RUST RESISTANT, CONTINUOUS SLOT STEEL CHANNEL OR SLOTTED STEEL ANGLE, WITH MATCHING FITTINGS ASSEMBLED WITH RUST RESISTANT HEX HEAD BOLTS AND NUTS.

DESIGN LOADING: AS RECOMMENDED BY MANUFACTURER.

PLUMBING INSULATION

SURFACE-BURNING CHARACTERISTICS: FOR INSULATION AND RELATED MATERIALS, AS DETERMINED BY TESTING IDENTICAL PRODUCTS ACCORDING TO ASTM E 84 BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. FACTORY LABEL INSULATION AND JACKET MATERIALS AND ADHESIVE, MASTIC, TAPES, AND CEMENT MATERIAL CONTAINERS, WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.

FIBERGLAS: INORGANIC, INCOMBUSTIBLE, MOLDED OF HEAVY DENSITY RESIN BONDED INORGANIC GLASS FIBERS, DENSITY SHALL BE ASTM C 302, OPERATING TEMP RANGE SHALL BE ASTM C 411, FACTORY APPLIED FLAME RETARDANT VAPOR BARRIER JACKET, JACKET TEMP LIMITATION SHALL BE ASTM C 1136, JACKET PERMEANCE SHALL BE ASTM E 96.

MINIMUM DENSITY: 3.5 LBS PCF.
MAXIMUM K-FACTOR: 0.25 AT 75 DEGREES FAHRENHEIT, MEAN.

VALVES AND FITTINGS: PREMOLDED, FIBROUS GLASS FITTING COVERS, OR FABRICATED MITERED SEGMENTS OF PIPE INSULATION, FINISHED WITH 20-20 COUNT GLASS CLOT EMBEDDED IN SURFACE COATING. NO STAPLES, TACKS OR BANDS.

FLEXIBLE ELASTOMERIC INSULATION: CLOSED-CELL, SPONGE- OR EXPANDED-RUBBER MATERIALS. COMPLY WITH ASTM C 534, TYPE I FOR TUBULAR MATERIALS.

PVC JACKET: HIGH-IMPACT-RESISTANT, UV-RESISTANT PVC COMPLYING WITH ASTM D 1784, CLASS 16354-C; THICKNESS AS SCHEDULED; ROLL STOCK READY FOR SHOP OR FIELD CUTTING AND FORMING. PROVIDE ON ALL EXPOSED PLUMBING PIPING REQUIRING INSULATION.

PIPE, FITTINGS AND VALVES

DOMESTIC WATER PIPING:

HARD COPPER TUBE, ASTM B88, TYPE L WITH ASME B16.18 CAST COPPER FITTINGS AND ASTM B32 LEAD FREE SOLDER JOINTS.

SOLDER: MAKE UP JOINTS WITH 95-5 TIN-ANTIMONY WIRE SOLDER AND NON-CORROSIVE FLUX. DO NOT USE 50-50 OR OTHER TIN-LEAD SOLDERS.

PRESS FITTING: COPPER AND COPPER ALLOY PRESS FITTINGS CONFORMING TO ASME B16.18 OR ASME B16.22. SEALING ELEMENTS FOR PRESS FITTINGS SHALL BE EPDM AND FACTORY INSTALLED. PRESS ENDS SHALL HAVE SC FEATURE DESIGN (LEAKAGE PATH) TO ASSURE DETECTION AND EASY IDENTIFICATION OF LEAKAGE OF LIQUIDS FROM INSIDE THE SYSTEM PAST THE SEALING ELEMENT OF AN UNPRESSED CONNECTION.

SANITARY WASTE AND VENT PIPING:

ASTM D 2665 SOLID WALL PVC PIPE WITH PVC SOCKET FITTINGS AND ASTM F 656 ADHESIVE PRIMER AND ASTM D 2564 SOLVENT CEMENT.

BURIED PIPING: ASTM D 2665 SOLID WALL PVC PIPE WITH PVC SOCKET FITTINGS AND ASTM F 656 ADHESIVE PRIMER AND ASTM D 2564 SOLVENT CEMENT.

EQUIPMENT DRAINS: ASTM B 306 COPPER TYPE DWV TUBE WITH ASTM B16.23 COPPER FITTINGS AND SOLDERED JOINTS.

PROPANE GAS PIPING: ASTM A53 SCHEDULE 40 BLACK STEEL, PLAIN END FOR WELDING. FITTINGS SHALL BE WROUGHT STEEL, BUTT WELDING FITTINGS.

PREPARATION: CUT PIPE AND TUBING ENDS SQUARE, REMOVE BURRS AND REAM TO ORIGINAL BORE. CLEAN JOINT SURFACES PRIOR TO ASSEMBLY. WIPE OFF EXCESS JOINING COMPOUNDS AND FLUX RESIDUE.

SCREWED: USE AMERICAN STANDARD TAPER PIPE THREADS CUT SHARP AND TRUE AND SUITABLE FOR NORMAL ENGAGEMENT. SCREW THREADED ITEMS UP CLOSE TO SHOULDERS WITH NOT MORE THAN THREE INCOMPLETE THREADS EXPOSED. DO NOT USE LAMP WICK, CORD, WOOL OR OTHER "WICKING" MATERIALS. REPAIR LEAKS WITH NEW MATERIALS, DO NOT PEEN OR CAULK. "TEFLON" PIPE JOINT TAPE OR JOINT COMPOUNDS COMPOSED OF RED LEAD AND GRAPHITE GROUND IN LINSEED OIL WILL BE PERMITTED, APPLIED TO MALE THREADS ONLY.

BALL VALVES: ONE PIECE, FULL PORT BRASS VALVE, MSS SP-110, THREADED ENDS, STAINLESS STEEL BALL, CLASS 150.

CHECK VALVES – CLASS 150, BRONZE BODY WITH BRONZE DISC, ASTM 62 WITH THREADED ENDS.

GATE VALVES: BRONZE GATE VALVES, MSS SP-80, THREADED ENDS, BRONZE SOLID WEDGE DISC, MALLEABLE IRON HANDWHEEL, CLASS 150.

PLUMBING WATER SPECIALTIES

BALANCING VALVES: LEAD FREE, AB 1953, NSF 61, INTEGRAL VALVE READOUT PORTS, B&G MODEL A-549LFP OR EQUAL.

HOSE BIBS: ASME A112.18.1, BRONZE BODY, 125 PSIG, HAND WHEEL.

WALL HYDRANTS: NON FREEZE, ASME A112.21.3, 125 PSIG, SELF DRAINING WITH OPERATING KEY.

BACKFLOW PREVENTERS: BRONZE BODY, ASSE 1013 REDUCED PRESSURE BACKFLOW PREVENTER, WATTS 909 OR EQUAL.

MIXING VALVES: ASSE 1017, 125 PSIG, BRONZE BODY, LEAD FREE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

REFER TO DRAWING PLUMBING SPECIALTIES SCHEDULE FOR ADDITIONAL INFORMATION

PLUMBING DRAINAGE SPECIALTIES

FLOOR DRAINS: ASME A112.6.3, LIGHT DUTY, NICKEL BRONZE STRAINER.

FLOOR CLEANOUTS: ASME A112.36.2M CAST IRON SOIL PIPE WITH CAST IRON FERRULE CLEANOUT, BRASS PLUG WITH STRAIGHT THREADS AND GASKET, ROUND TOP.

REFER TO DRAWING PLUMBING SPECIALTIES SCHEDULE FOR ADDITIONAL INFORMATION.

PLUMBING FIXTURES

WATER CLOSETS (TANK TYPE): ACCESSIBLE, FLOOR MOUNTED, VITREOUS CHINA, 1.28 GPF.

LAVATORIES: ACCESSIBLE, WALL HUNG, SOLID SURFACE MATERIAL, CONCEALED ARM SUPPORTS.

SINKS: ACCESSIBLE, COUNTERTOP MOUNTED DROP IN STAINLESS STEEL SINK.

REFER TO DRAWING PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

VALVE INSTALLATION

LOCATE VALVES FOR EASY ACCESS AND PROVIDE SEPARATE SUPPORT WHERE NECESSARY.

INSTALL VALVES IN HORIZONTAL PIPING WITH STEM AT OR ABOVE CENTER OF PIPE.

INSTALL VALVES IN POSITION TO ALLOW FULL STEM MOVEMENT.

INSTALL BACKFLOW PREVENTERS IN EACH WATER SUPPLY TO MECHANICAL EQUIPMENT AND SYSTEMS AND TO OTHER EQUIPMENT AND WATER SYSTEMS THAT MAY BE SOURCES OF CONTAMINATION. INSTALL DRAIN FOR BACKFLOW PREVENTERS WITH ATMOSPHERIC-VENT DRAIN CONNECTION WITH AIR-GAP FITTING, FIXED AIR-GAP FITTING, OR EQUIVALENT POSITIVE PIPE SEPARATION OF AT LEAST TWO PIPE DIAMETERS IN DRAIN PIPING AND PIPE-TO-FLOOR DRAIN. LOCATE AIR-GAP DEVICE ATTACHED TO OR UNDER BACKFLOW PREVENTER.

INSTALL BALANCING VALVES IN LOCATIONS WHERE THEY CAN EASILY BE ADJUSTED.

INSTALL AIR VENTS AT HIGH POINTS OF WATER PIPING.

HANGER AND SUPPORT INSTALLATION

METAL PIPE-HANGER INSTALLATION: COMPLY WITH MSS SP-69 AND MSS SP-89. INSTALL HANGERS, SUPPORTS, CLAMPS, AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM THE BUILDING STRUCTURE.

THERMAL-HANGER SHIELD INSTALLATION: INSTALL IN PIPE HANGER OR SHIELD FOR INSULATED PIPING.

INSTALL HANGERS AND SUPPORTS COMPLETE WITH NECESSARY ATTACHMENTS, INSERTS, BOLTS, RODS, NUTS, WASHERS, AND OTHER ACCESSORIES.

INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS, AND SIMILAR UNITS.

HANGER ADJUSTMENTS: ADJUST HANGERS TO DISTRIBUTE LOADS EQUALLY ON ATTACHMENTS AND TO ACHIEVE INDICATED SLOPE OF PIPE.

TRIM EXCESS LENGTH OF CONTINUOUS-THREAD HANGER AND SUPPORT RODS TO 1-1/2 INCHES.

PIPE AND EQUIPMENT IDENTIFICATION INSTALLATION

APPLY LEGENDS TO FEED AND CROSS MAIN PIPING ADJACENT TO CHANGES IN DIRECTION WHERE PIPES PASS THROUGH WALLS OR FLOORS, AT INTERVALS NOT EXCEEDING 40 FEET IN STRAIGHT PIPING RUNS, AND ADJACENT TO CROSS MAIN CONNECTIONS WITH FEED MAIN.

INSTALL OR PERMANENTLY FASTEN LABELS ON EACH MAJOR ITEM OF MECHANICAL EQUIPMENT, LOCATE EQUIPMENT LABELS WHERE ACCESSIBLE AND VISIBLE.

PIPE LABEL LOCATIONS: LOCATE PIPE LABELS WHERE PIPING IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS IN FINISHED SPACES; MACHINE ROOMS; ACCESSIBLE MAINTENANCE SPACES SUCH AS SHAFTS, TUNNELS, AND PLENUMS.

DIRECTIONAL FLOW ARROWS: ARROWS SHALL BE USED TO INDICATE DIRECTION OF FLOW IN PIPES, INCLUDING PIPES WHERE FLOW IS ALLOWED IN BOTH DIRECTIONS.

INSTALL TAGS ON VALVES AND CONTROL DEVICES IN PIPING SYSTEMS.

PIPE INSULATION INSTALLATION

PIPE INSULATION SCHEDULE:

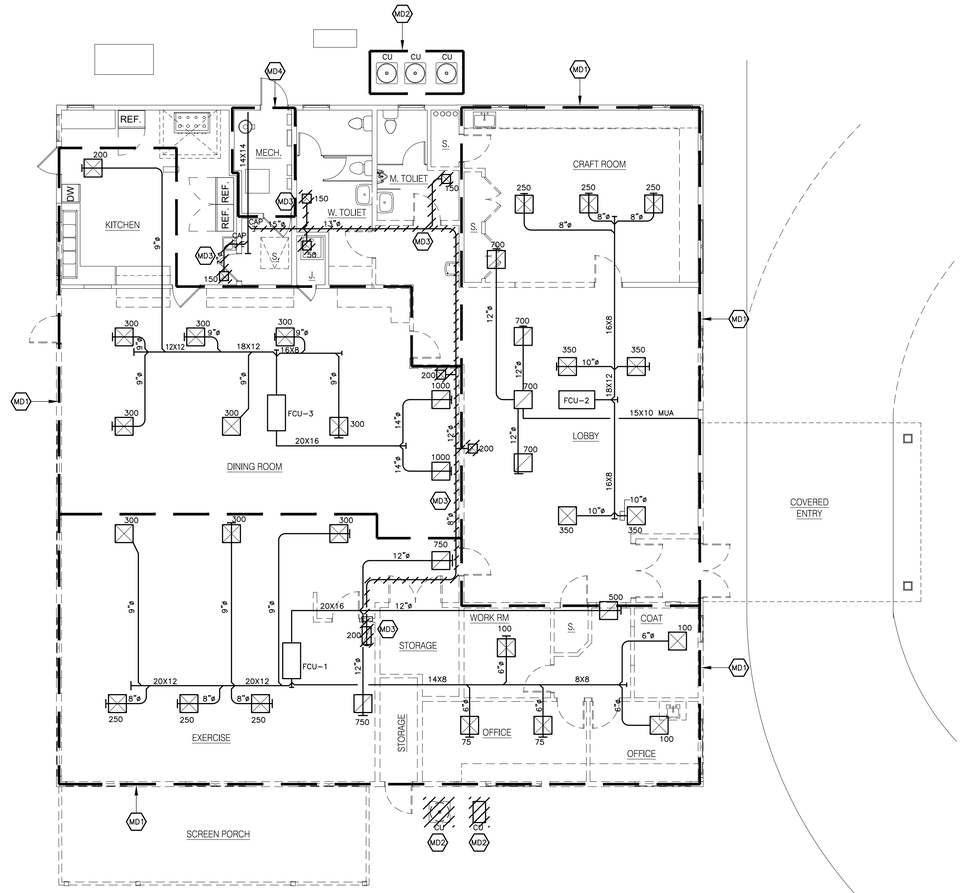
DOMESTIC COLD WATER: 1 ½-INCH AND SMALLER SHALL BE ½-INCH THICK FIBERGLASS. 2-INCH AND LARGER SHALL BE 1-INCH THICK FIBERGLASS. BURIED WATER PIPING SHALL BE FLEXIBLE ELASTOMERIC INSULATION ½-INCH THICK.

DOMESTIC HOT WATER AND HOT WATER RETURN: 1 1/2-INCH AND SMALLER SHALL BE 1-INCH THICK FIBERGLASS. 2-INCH AND LARGER SHALL BE 1 1/2-INCH THICK FIBERGLASS.

PROVIDE PVC JACKET ON ALL EXPOSED PIPING.

PIPING INSTALLATION

DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DOMESTIC WATER PIPING. INDICATED LOCATIONS AND ARRANGEMENTS ARE USED TO SIZE PIPE AND CALCULATE FRICTION LOSS, EXPANSION, AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATI



MECHANICAL DEMOLITION FIRST FLOOR PLAN

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

MECHANICAL DEMOLITION NOTES

MD1 REMOVE EXISTING FCU SERVING THIS AREA, SUPPLY/RETURN DIFFUSERS, DUCTWORK AND PIPING CONNECTIONS, THERMOSTAT AND ASSOCIATED ACCESSORIES.

MD2 REMOVE EXISTING CU AND ACCESSORIES.

MD3 REMOVE EXISTING EXHAUST DIFFUSER, DUCT CONNECTIONS AS SHOWN HATCHED.

MD4 EXISTING BOILER, PUMPS, MANIFOLDS AND ACCESSORIES, SERVING EXISTING RADIANT FLOOR SYSTEM TO REMAIN.

MD5 DISCONNECT (FCU-1,2,3) PIPING, PUMPS AND ACCESSORIES. CAP PIPING AT THE MAINS.

MD6 REMOVE EXISTING THERMOSTAT (RADIANT FLOOR LOOP), FCU AND ACCESSORIES.

N

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JOB #:	790
DRAWN BY:	
CHECKED BY:	
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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STAMP: CM REFERENCE - NOT FOR CONSTRUCTION

DRAWING NAME: MECHANICAL DEMOLITION FLOOR PLANS

SCALE: As indicated

SHEET: MD1.0

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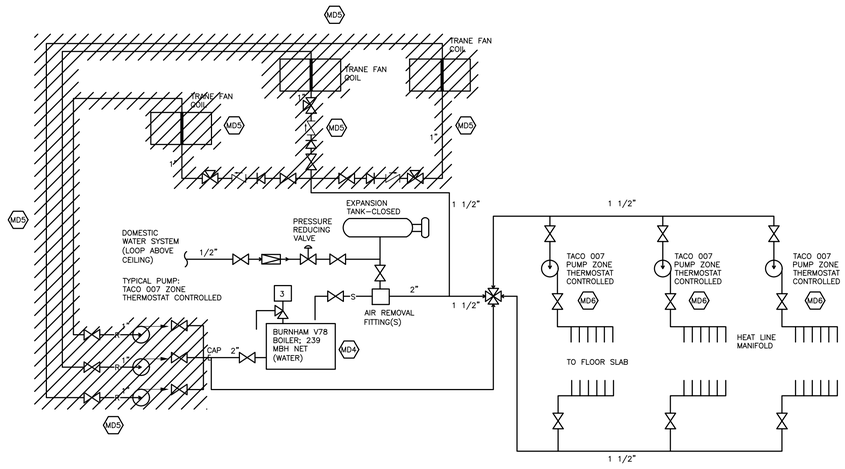
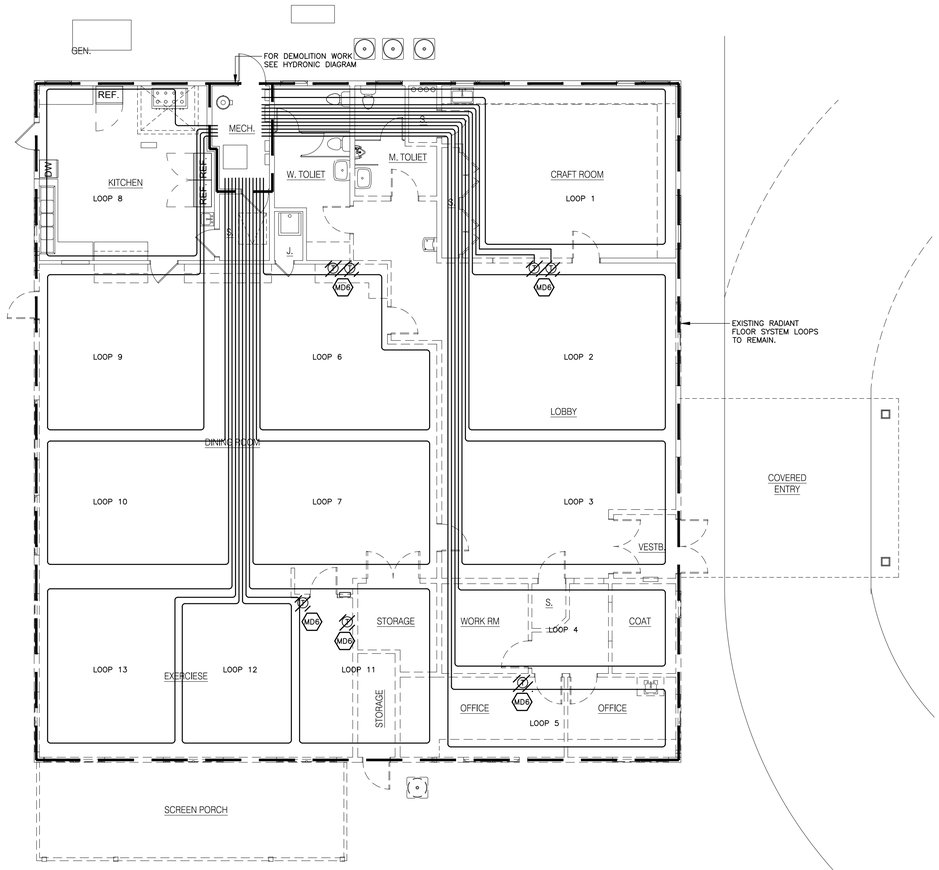


EXISTING HYDRONIC SYSTEM DIAGRAM - DEMOLITION WORK

SCALE: N.T.S.



RADIANT FLOOR SYSTEM DEMOLITION PLAN

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

MECHANICAL DEMOLITION NOTES

- MD1 REMOVE EXISTING FCU SERVING THIS AREA, SUPPLY/RETURN DIFFUSERS, DUCTWORK AND PIPING CONNECTIONS, THERMOSTAT AND ASSOCIATED ACCESSORIES.
- MD2 REMOVE EXISTING CU AND ACCESSORIES.
- MD3 REMOVE EXISTING EXHAUST DIFFUSER, DUCT CONNECTIONS AS SHOWN HATCHED.
- MD4 EXISTING BOILER, PUMPS, MANIFOLDS AND ACCESSORIES, SERVING EXISTING RADIANT FLOOR SYSTEM TO REMAIN.
- MD5 DISCONNECT (FCU–1,2,3) PIPING, PUMPS AND ACCESSORIES. CAP PIPING AT THE MAINS.
- MD6 REMOVE EXISTING THERMOSTAT (RADIANT FLOOR LOOP), FCU AND ACCESSORIES.

GENERAL NOTES

CONTRACTOR SHALL PROVIDE GROUND PENETRATING RADAR GPD FOR ANY SLAB CUTS TO PROTECT THE EXISTING AND NEW RADIANT FLOOR PIPING.

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DRAWING NAME:
MECHANICAL IN-SLAB HEATING SCHEMATIC DEMOLITION PLAN

SCALE: As indicated

SHEET:
MD1.1

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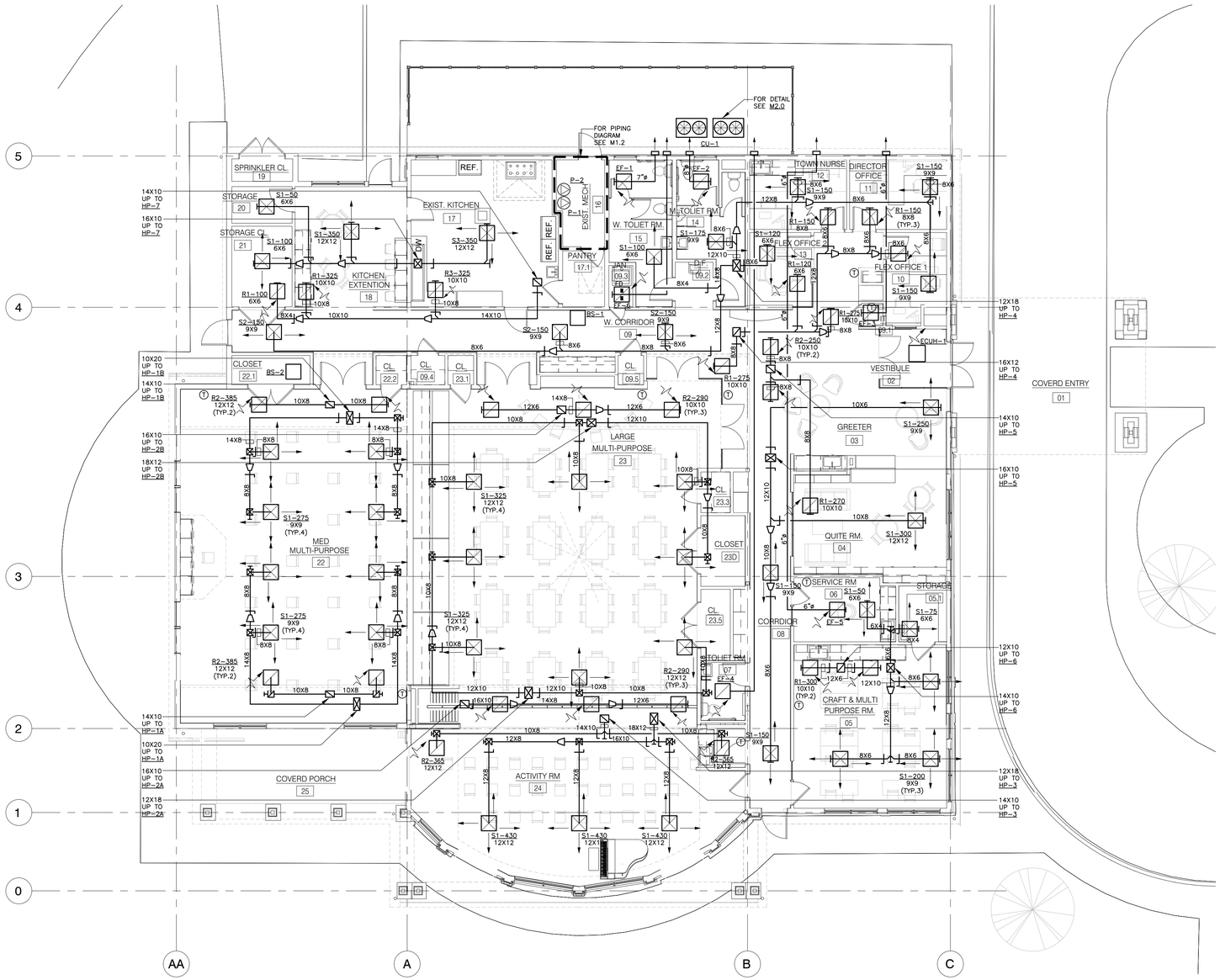

MECHANICAL FIRST FLOOR PLAN

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

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DRAWING NAME:
MECHANICAL FLOOR PLANS, NOTES, LEGEND, DETAILS & SCHEDULES

SCALE: As indicated

SHEET:
M1.0

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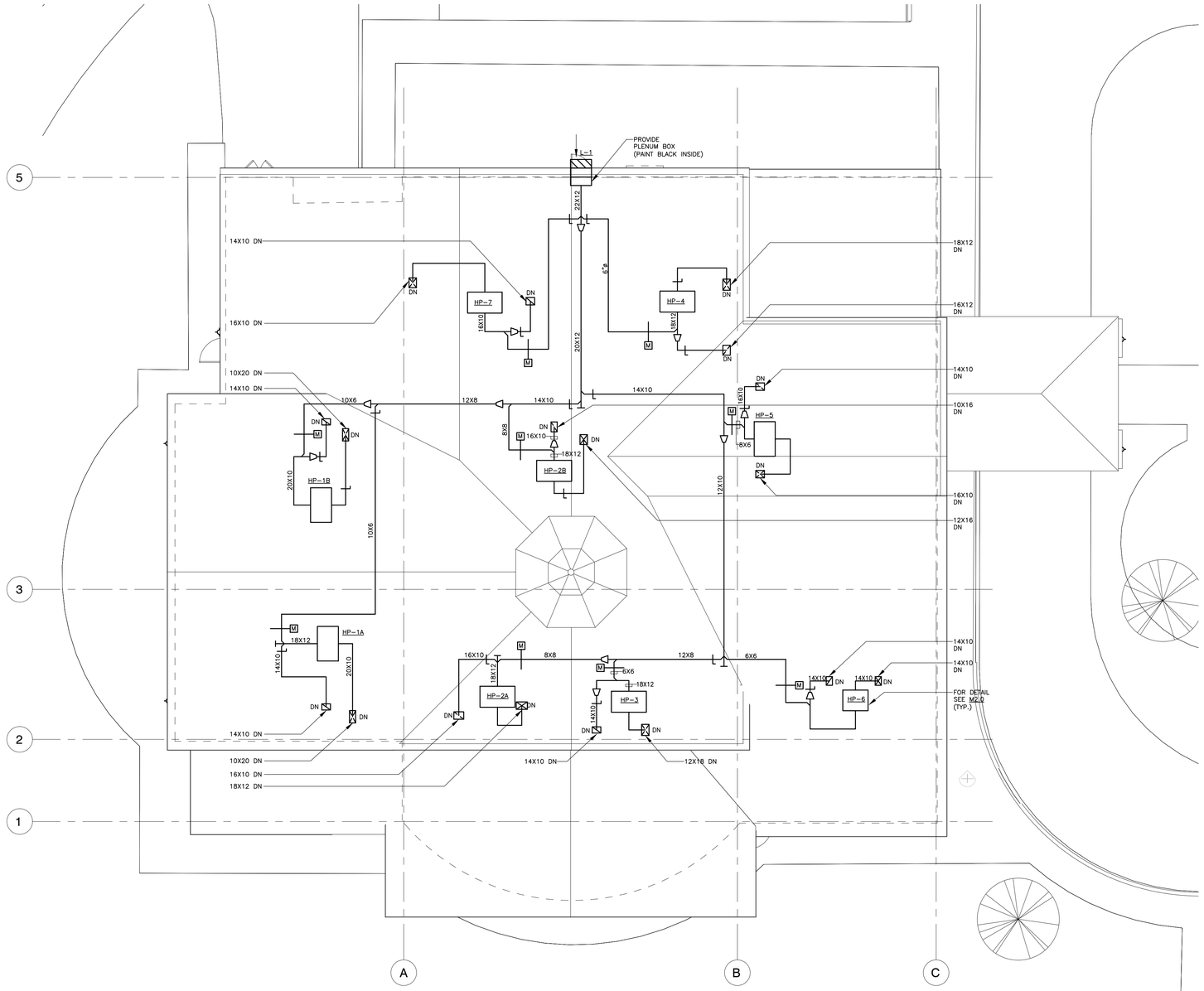

MECHANICAL ATTIC PLAN

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

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DRAWING NAME:
MECHANICAL ATTIC PLAN

SCALE: As indicated

SHEET:
M1.1

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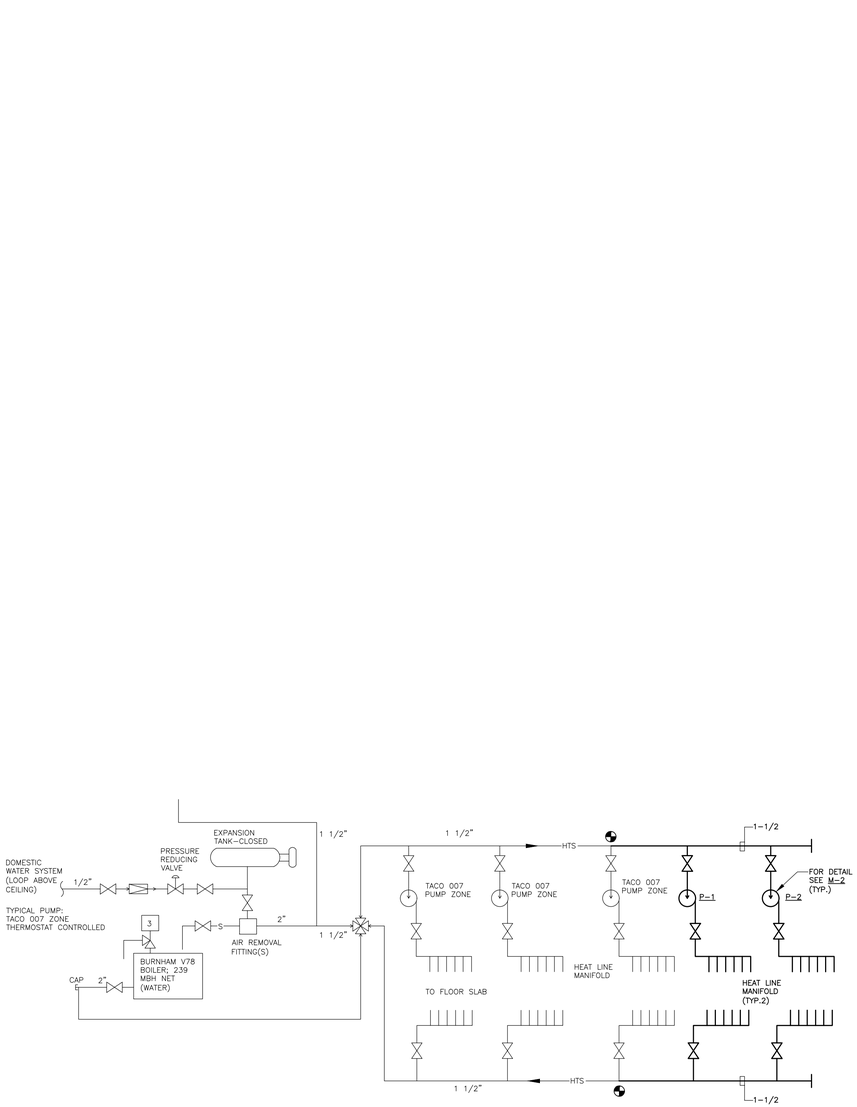
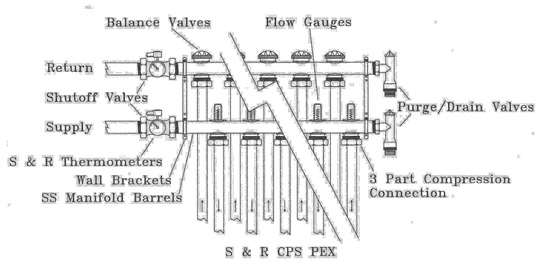
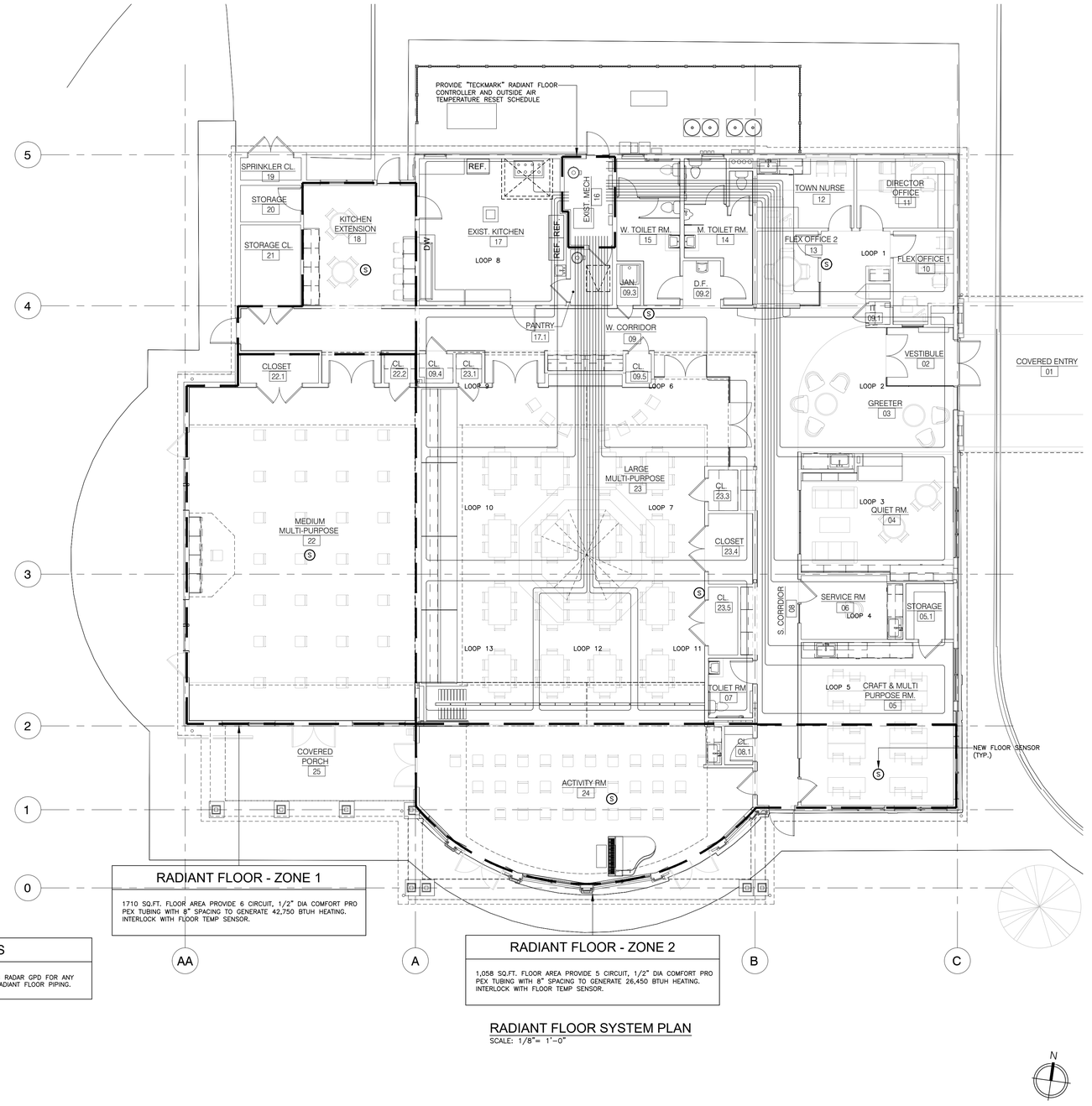


HYDRONIC SYSTEM DIAGRAM

SCALE: N.T.S.





RADIANT FLOOR - ZONE 1

1710 SQ.FT. FLOOR AREA PROVIDE 6 CIRCUIT, 1/2" DIA COMFORT PRO PEX TUBING WITH 8" SPACING TO GENERATE 42,750 BTUH HEATING. INTERLOCK WITH FLOOR TEMP SENSOR.

RADIANT FLOOR - ZONE 2

1,058 SQ.FT. FLOOR AREA PROVIDE 5 CIRCUIT, 1/2" DIA COMFORT PRO PEX TUBING WITH 8" SPACING TO GENERATE 26,450 BTUH HEATING. INTERLOCK WITH FLOOR TEMP SENSOR.

RADIANT FLOOR SYSTEM PLAN

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

GENERAL NOTES

CONTRACTOR SHALL PROVIDE GROUND PENETRATING RADAR GPD FOR ANY SLAB CUTS TO PROTECT THE EXISTING AND NEW RADIANT FLOOR PIPING.

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JOB #:	790
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CHECKED BY:	
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME: MECHANICAL RADIANT FLOOR SYSTEM PLAN

SCALE: As indicated

SHEET: M1.2

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VARIABLE REFRIGERANT VOLUME - AIR-COOLED CONDENSING UNIT SCHEDULE

TAG: ROOM	BASIS OF DESIGN (DAIKIN)	NOMINAL TONNAGE	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		REFRIGERANT CHARGE		CONNECTION RATIO (%)	ELECTRICAL												DIMENSIONS	WEIGHT (lbs)	EFFICIENCY (NonDucted/Ducted or Specific Combo)							NOTES	Options and Accessories
											VOLTAGE-PHASE	MIN CIRCUIT AMPS (MCA)				MAX OVERCURRENT PROTECTION (MOP)				RUNNING CURRENT(RLA)												
				BTU/h	AMBIENT DESIGN (°F DB)	BTU/h	AMBIENT DESIGN (°F DB / WB)	Factory Charge (lbs)	Add'l Refrigerant (lbs)			mod #1	mod #2	mod #3	total	mod #1	mod #2	mod #3	total	mod #1	mod #2	mod #3	total	(WxHxD) (inch)		EER	IEER	COP47	COP17	SCHE	SEER	HSPF		
CU 1	REYQ312XATJB	26	Air cooled heat recovery (2)	329,442	90.0	228,588	4.0 / 3.9	51.6	n/a	117.3	208V - 230V 3ph	61.9	58.3		120.2	70.0	70.0		140.0	49.0	42.6		91.6	48.9 x 66.7 x 30.2 / 48.9 x 66.7 x 30.2	793.0 / 727.0	10.1 / 9.9	20.4 / 18	3.56 / 3.2	2.09 / 2.05	24.3 / 20.7	n/a / n/a	n/a / n/a		BHFP26P100U (1)

Schedule Notes:

VARIABLE REFRIGERANT VOLUME - INDOOR UNIT SCHEDULE

TAG	ROOM	BASIS OF DESIGN (DAIKIN)	NOMINAL TONNAGE	TYPE	CONNECTED TO:		SUPPLY FAN		COOLING CAPACITY				HEATING CAPACITY		ELECTRICAL			DIMENSIONS	WEIGHT	NOTES	Options and Accessories
					CONDENSING UNIT	ZONE CHANGEOVER DEVICE	AIR FLOW RATE cfm	O.A.	TOTAL BTU/h	SENSIBLE BTU/h	ENTERING AIR		TOTAL BTU/h	ENTERING AIR °Fdb	POWER SUPPLY	Min Circuit Amps	Max Overcurrent Protection	WxHxD	Net		
								CFM			°F DB	°F WB			Voltage - Phase	MCA	MOP	inch	lbs		
HP-7	Kitchen	FXSQ36TAVJU	3.0	MSP Concealed Ducted Unit	CU 1	Yes	850	100	36,000	25,125	80.0	67.0	41,287	68.0	208-230V 1ph	2.5	15.0	55.1 x 9.6 x 31.5	101.0		BRC1E73 (1), DFBS55A13 (1)
HP-3	Enclosed Porch	FXSQ48TAVJU	4.0	MSP Concealed Ducted Unit	CU 1	Yes	1,290	160	48,011	33,599	80.0	67.0	55,959	68.0	208-230V 1ph	2.8	15.0	55.1 x 9.6 x 31.5	104.0		BRC1E73 (1), DFBS55A13 (1)
HP-4	Offices	FXSQ48TAVJU	4.0	MSP Concealed Ducted Unit	CU 1	Yes	1,295	100	48,011	33,599	80.0	67.0	55,959	68.0	208-230V 1ph	2.8	15.0	55.1 x 9.6 x 31.5	104.0		BRC1E73 (1), DFBS55A13 (1)
HP-5	Cafe Library	FXSQ36TAVJU	3.0	MSP Concealed Ducted Unit	CU 1	Yes	850	150	36,000	25,125	80.0	67.0	41,287	68.0	208-230V 1ph	2.5	15.0	55.1 x 9.6 x 31.5	101.0		BRC1E73 (1), DFBS55A13 (1)
HP-6	Cafe Library	FXSQ30TAVJU	2.5	MSP Concealed Ducted Unit	CU 1	Yes	725	125	29,994	22,023	80.0	67.0	35,145	68.0	208-230V 1ph	1.8	15.0	39.4 x 9.6 x 31.5	82.0		BRC1E73 (1), DFBS39A13 (1)
HP-2A	Large Multipurpose	FXSQ48TAVJU	4.0	MSP Concealed Ducted Unit	CU 1	Yes	1,307	280	48,011	33,599	80.0	67.0	55,959	68.0	208-230V 1ph	2.8	15.0	55.1 x 9.6 x 31.5	104.0		BRC1E73 (1), DFBS55A13 (1)
HP-2B	Large Multipurpose	FXSQ48TAVJU	4.0	MSP Concealed Ducted Unit	CU 1	Yes	1,307	280	48,011	33,599	80.0	67.0	55,959	68.0	208-230V 1ph	2.8	15.0	55.1 x 9.6 x 31.5	104.0		BRC1E73 (1), DFBS55A13 (1)
HP-1A	Med Multipurpose	FXSQ36TAVJU	3.0	MSP Concealed Ducted Unit	CU 1	Yes	1,100	220	36,000	25,125	80.0	67.0	41,287	68.0	208-230V 1ph	2.5	15.0	55.1 x 9.6 x 31.5	101.0		BRC1E73 (1), DFBS55A13 (1)
HP-1B	Med Multipurpose	FXSQ36TAVJU	3.0	MSP Concealed Ducted Unit	CU 1	Yes	1,100	220	36,000	25,125	80.0	67.0	41,287	68.0	208-230V 1ph	2.5	15.0	55.1 x 9.6 x 31.5	101.0		BRC1E73 (1), DFBS55A13 (1)

VARIABLE REFRIGERANT VOLUME - ZONE HEAT RECOVERY DEVICE SCHEDULE

TAG: ROOM	BASIS OF DESIGN (DAIKIN)	CONDENSING UNIT SERVED	VOLTAGE-PHASE	MIN CIRCUIT AMPS (MCA)	MAX OVERCURRENT PROTECTION (MOP)	MAX CAPACITY (per Port)	DIMENSIONS (WxHxD inch)	WEIGHT (lbs)	ZONE SERVED	Options and Accessories
BS 1	BSF6Q54TVJ	CU 1	208-230V 1ph	0.6	15.0	54,000	23.3 x 9.5 x 23.7	72.8		KHFP26A100C (1)
BS 2	BSF6Q54TVJ	CU 1	208-230V 1ph	0.6	15.0	54,000	23.3 x 9.5 x 23.7	72.8		KHFP26A100C (2)

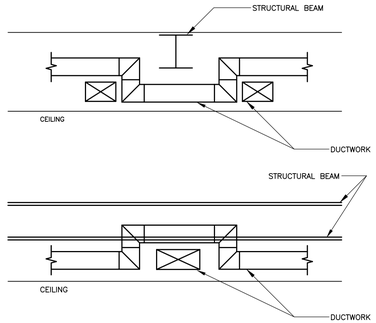
Schedule Notes:

TYPICAL VOLUME DAMPER LOCATION

SCALE: N.T.S.

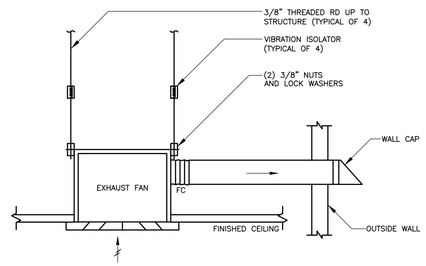
NOTES:

1. PROVIDE VOLUME DAMPERS IN EVERY MAIN SUPPLY BRANCH AND DIFFUSER BRANCH AS SHOWN ABOVE.
2. PROVIDE VOLUME DAMPER IN EVERY MAIN RETURN BRANCH AND DIFFUSER BRANCH.
3. PROVIDE VOLUME DAMPER IN EVERY MAIN EXHAUST BRANCH AND DIFFUSER BRANCH.
4. PROVIDE ADDITIONAL VOLUME DAMPERS AS SHOWN ON CONTRACT DOCUMENTS.
5. PROVIDE ADDITIONAL VOLUME DAMPERS AS REQUIRED FOR BALANCING OF SUPPLY, RETURN AND EXHAUST AIR SYSTEMS.



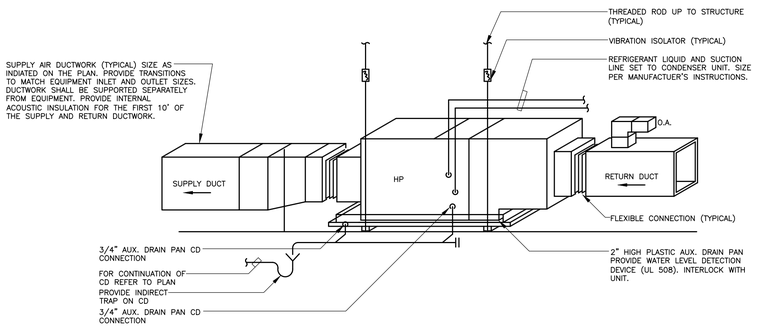
TYPICAL CROSSOVER AT ALL LOCATIONS DETAIL

N.T.S.



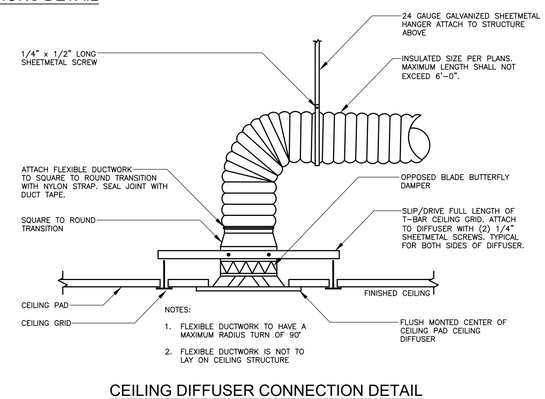
CEILING EXHAUST FAN

N.T.S.



HORIZONTAL HEAT PUMP DETAIL

N.T.S.

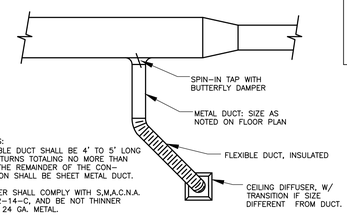


CEILING DIFFUSER CONNECTION DETAIL

N.T.S.

MECHANICAL LEGEND

	DIFFUSER/GRILLE – SUPPLY
	GRILLE/REGISTER – RETURN
	GRILLE/REGISTER – EXHAUST
	ROUND DUCT UP
	ROUND DUCT DN
	SIDEWALL GRILLE/REGISTER – SUPPLY/RETURN/EXHAUST
	LINEAR SLOT DIFFUSER/BAR GRILLE – SUPPLY
	AIR FLOW DIRECTION INDICATOR – SUPPLY
	AIR FLOW DIRECTION INDICATOR – RETURN
	DUCT RISER – SUPPLY/COMBUSTION AIR
	DUCT DROP – SUPPLY/COMBUSTION AIR
	DUCT RISER – RETURN/EXHAUST
	DUCT DROP – RETURN/EXHAUST
	EXHAUST FAN
T	THERMOSTAT
	VOLUME DAMPER
	MOTORIZED DAMPER
	REDUCER
HTS	HOT WATER SUPPLY – HEATING
HTR	HOT WATER RETURN – HEATING
RLL	REFRIGERANT LIQUID LINE
RSL	REFRIGERANT SUCTION LINE
CD	CONDENSATE WASTE
	DIRECTION OF FLOW
	PIPE DOWN
	PIPE DROP
	PIPE RISE
	PIPE ANCHOR
	PIPE GUIDE or SLEEVE
	PIPE EXPANSION FITTING (AT BLDG. EXP.JOINTS)
	PLUGGED OR CAPPED PIPE
	CONNECT TO EXISTING
	TEMPERATURE GAUGE
	PRESSURE GAUGE
OR	STRAINER – 'Y' TYPE
	UNION
	BALANCING VALVE



CEILING DIFFUSER CONNECTION DETAIL

N.T.S.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AMP	AMPERE (AMP, AMPS)
BAL	BALANCE
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CLG	COOLING
CU	CONDENSING UNIT
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FT	FEET
FTR	FIN TUBE RADIATION
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H-1	HUMIDIFIER
HWC	HOT WATER COIL
HP	HORSE POWER
HTR	HEATING RETURN (HOT WATER)
HTS	HEATING SUPPLY (HOT WATER)
HTG	HEATING
Hz	FREQUENCY
IN.	INCH
IN. WG	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LWT	LEAVING WATER TEMPERATURE
MBH	BTU PER HOUR (THOUSAND)
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
OED	OPEN END DUCT
P-1	PUMP
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
RDG	REGISTER DIFFUSER GRILLE
RET	RETURN
RH	RELATIVE HUMIDITY
RPM	ROTATIONS PER MINUTE
SP-1	SUMP PUMP
SQ.FT.	SQUARE FEET
SUP	SUPPLY
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
WB	WET BULB
WP	WORKING PRESSURE
ZC	ZONE CONTROLLER
ZV	ZONE VALVE

MECHANICAL DEMOLITION NOTES

1. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT, ACCESSORIES, CONTROLS AND ASSOCIATED PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
3. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
4. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
5. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE MECHANICAL DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
6. ANY MECHANICAL EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER, AT OWNERS REQUEST, OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.
7. THE MECHANICAL CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
8. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.

MECHANICAL GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL MECHANICAL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK. SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.

LYMES' SENIOR CENTER RENOVATION

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DRAWING NAME: MECHANICAL NOTES, LEGEND, DETAILS & SCHEDULES

SCALE: As indicated

SHEET: M2.0

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LOUVER SCHEDULE

SYMBOL	MANUFACTURER MODEL NUMBER	SYSTEM SERVED	AIRFLOW (CFM)	MAXIMUM VELOCITY (FPM)	AIR P.D. (IN. WG)	NOMINAL WIDTH (IN.)	NOMINAL HEIGHT (IN.)	MINIMUM FREE AREA (SQ. FT.)	MAXIMUM WATER PENETRATION (OZ./SQ. FT.)	NOTES
L-1	GREENHECK EDJ-401	O.A HPS	1,635	750	0.095	30	24	2.2	0.01	1,2,3

NOTES:
1. PROVIDE WITH BIRD AND INSECT SCREENS
2. PROVIDE WITH FLANGED FRAME
3. COLOR BY ARCHITECT

ELECTRIC CABINET UNIT HEATER SCHEDULE

SYMBOL	MANUFACTURER MODEL NUMBER	TYPE	LOCATION	AIR FLOW	BTUH	ELECTRIC DATA AMPS-V-PH	NOTES
ECUH-1	QMARK EFF4004	R	VESTIBULE	-	5,120	7.2-208-1	1,2

UNIT HEATER TYPES:
H - HORIZONTAL
V - VERTICAL

CABINET UNIT HEATER TYPES:
R - RECESSED
S - SURFACE
SR - SEMI-RECESSED

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH T-BAR FRAME KIT, SINGLE-POLE THERMOSTAT.

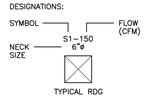
GRILLE, DIFFUSER AND REGISTER SCHEDULE

SYMBOL	MANUFACTURER MODEL NUMBER	DUTY	TYPE	BORDER TYPE	CONSTRUCTION			NOTES
					OBD	FRAME	BLADES	
S1	TITUS TDCA-AA	SUPPLY	D.D.	TYPE 3	ALUMINUM	ALUMINUM	ALUMINUM	1,2,3
S2	TITUS TDCA-AA	SUPPLY	D.D.	TYPE 1	ALUMINUM	ALUMINUM	ALUMINUM	1,2,3
S3	TITUS TDCA-FR	SUPPLY	D.D.	TYPE 3	ALUMINUM	ALUMINUM	ALUMINUM	2,3
R1	TITUS PAR-AA	RETURN	P.F.	TYPE 3	ALUMINUM	ALUMINUM	ALUMINUM	1,2,3,4
R2	TITUS PAR-AA	RETURN	P.F.	TYPE 4	ALUMINUM	ALUMINUM	ALUMINUM	1,2,3,4
R3	TITUS PAR-FR	RETURN	P.F.	TYPE 3	ALUMINUM	ALUMINUM	ALUMINUM	2,3

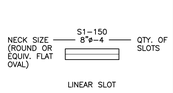
TYPES:
L.S. - LINEAR SLOT
L.B. - LINEAR BAR
D.D. - DIRECTIONAL DIFFUSER
P.F. - PERFORATED FACE
L.F. - LOUVERED FACE
C.C. - CUBE CORE
S.W. - SIDE WALL
S.W./C.G.-SIDE WALL OR CEILING

NOTES:
1. SQUARE TO ROUND TRANSITION.
2. FACE VELOCITY 600 FPM MAX.
3. NC LEVEL NOT TO EXCEED 25.
4. PROVIDE WITH FILTER.

DESIGNATIONS:



TYPICAL RDG



LINEAR SLOT

FAN SCHEDULE

SYMBOL	MANUFACTURER MODEL NUMBER	SERVING	TYPE	AIR FLOW CFM	ESP IN. WS.	FAN RPM	DRIVE	CONTROL	BHP (W)	HP (W)	ELECTRICAL V-PH-RPM	SONES (LWA)	NOTES
EF-1	GREENHECK SP-B150	WOMEN TOILET	C	150	0.375	1050	DIRECT	OCCUPIED UNOCCUPIED	-	128	208-1	3.5	1,2,3
EF-2	GREENHECK SP-A290	MEN TOILET	C	225	0.375	105	DIRECT	OCCUPIED UNOCCUPIED	-	80.7	208-1	3.0	1,2,3
EF-3	GREENHECK SP-B150	IT	C	100	0.375	1050	DIRECT	T-STAT	-	128	208-1	3.5	1,2,3
EF-4	GREENHECK SP-B150	TOILET RM	C	100	0.5	1050	DIRECT	OCCUPIED UNOCCUPIED	-	128	208-1	3.5	1,2,3
EF-5	GREENHECK SP-B150	SERVICE ROOM	C	100	0.5	1050	DIRECT	SWITCH	-	128	208-1	3.5	1,2,3
EF-6	GREENHECK SP-B150	JC	C	100	0.5	1050	DIRECT	OCCUPIED UNOCCUPIED	-	128	208-1	3.5	1,2,3

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH WALL CAP - MODEL WC.
3. PROVIDE WITH ALUMINUM GRILLE, BACKDRAFT DAMPER.

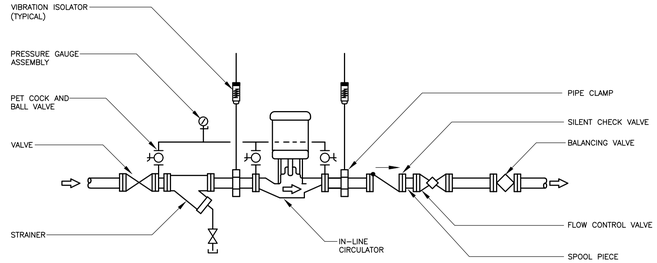
TYPE: C - CEILING

PUMP SCHEDULE

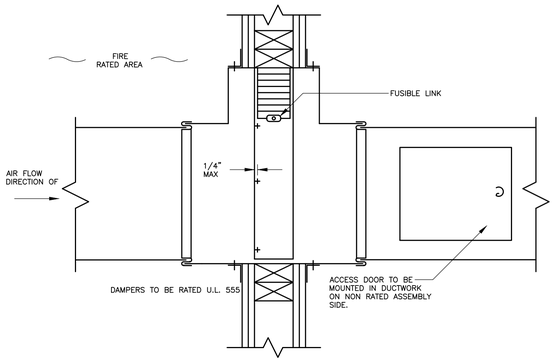
SYMBOL	MANUFACTURER MODEL NUMBER	TYPE	LOCATION	SYSTEM SERVED	WATER/ GLYCOL	CAPACITY GPM	CAPACITY FT OF HEAD	WATER TEMP (F°)	FLANGE S/D	ELECTRICAL DATA	POWER HP/BHP	MOTOR SPEED	NOTES
P-1	BELL & GOSSETT PL-36	IL	MECH ROOM	RAD. FLOOR	70/30	4.3	25	180	1/1	208-1	1/6	3300	1,2
P-2	BELL & GOSSETT PL-36	IL	MECH ROOM	RAD. FLOOR	70/30	2.6	35	180	0.75/0.75	208-1	1/6	3300	1,2

TYPES:
IL = IN-LINE PUMP
FM = FLOOR MOUNTED

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
2. INTERLOCK WITH BOILER CONTROLLER AND FLOOR SENSORS.



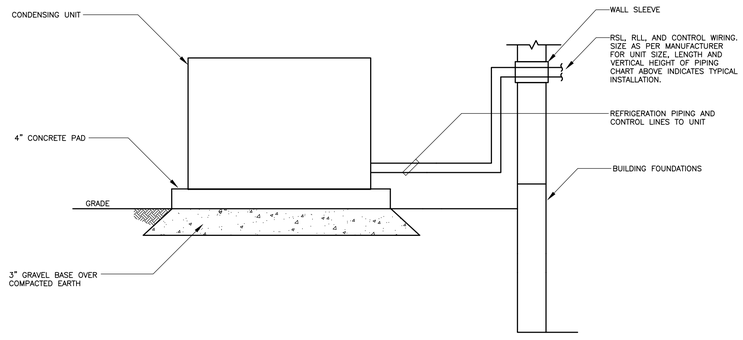
INLINE PUMP PIPING DETAIL
SCALE: 1/8"= 1'-0"



FIRE DAMPER DETAIL
N.T.S.

NOTES:

1. CLEARANCE BETWEEN THE WALL/FLOOR OPENING AND THE DAMPER/SLEEVE ASSEMBLY SHALL BE 1/8" PER FOOT OD WIDTH AND HEIGHT. MINIMUM CLEARANCE SHALL BE 1/4" FOR ANY SIZE DAMPER/SLEEVE ASSEMBLY. THE MAXIMUM OPENING SHALL NOT EXCEED 1/8" PER FOOT PLUS 1". MOUNTING ANGLE SHALL OVERLAP WALL BY 1" MINIMUM ON ALL SIDES.
2. THE DAMPER FRAME MAY BE FASTENED TO THE SLEEVE USING #14 SHEET METAL SCREWS SPACED AT A MAXIMUM OF 12" CENTER TO CENTER FOR 1-1/2" HR RATED DAMPERS AND 6" MAXIMUM CENTER TO CENTER FOR 3 HR RATED DAMPERS. A MINIMUM OF ONE FASTENER PER SIZE MUST BE USED.
3. MOUNTING ANGLES MUST BE INSTALLED ON BOTH SIDES OF THE WALL/FLOOR OPENING AND MUST BE USED ON ALL 4 SIDES OF THE DAMPER/SLEEVE ASSEMBLY (EXCEPTIONS NOTED). MINIMUM MOUNTING ANGLE SIZE IS 1"x1"x18" GAUGE FOR DAMPERS UP TO 18" IN WIDTH OR HEIGHT, 1-1/2"x1-1/2"x18" GAUGE FOR DAMPERS UP TO 72" IN WIDTH OR HEIGHT, AND 2"x2"x18" GAUGE FOR LARGER DAMPERS. MOUNTING ANGLES ARE TO BE ATTACHED TO DAMPER/SLEEVE ASSEMBLY USING #14 SHEET METAL SCREWS SPACED AT A MAXIMUM OF 12" CENTER TO CENTER FOR 1-1/2" HR RATED DAMPERS AND 6" MAXIMUM CENTER TO CENTER FOR 3 HR RATED DAMPERS. A MINIMUM OF ONE FASTENER PER SIDE MUST BE USED.
4. UL 555 (PDH, 14.4) SLEEVE THICKNESS REQUIREMENT: SLEEVE THICKNESS WHEN USED WITHOUT SLIP CONNECTIONS SHALL BE A MINIMUM OF 16 GAUGE FOR DAMPERS WITH DIMENSIONS NOT EXCEEDING 24" IN HEIGHT OR 36" IN WIDTH AND A MINIMUM OF 14 GAUGE FOR LARGER DAMPERS. EXCEPTION: SLEEVES OF LESSER THICKNESS MAY BE USED IF ONE OR MORE OF THE FOLLOWING SLIP CONNECTIONS IS LOCATED NO MORE THAN 12" FROM THE WALL/FLOOR OPENING: PLAIN "S" SLIP, STANDING "S" SLIP (ALTERNATE BAR, ANGLE, OR BAR REINFORCED), INSIDE SLIP JOINT OR DOUBLE "S" SLIP. SLEEVE GAUGE MAY NOT BE LESS THAN DUCT GAUGE.
5. WHEN ANY SMOKE DETECTOR IS ACTIVATED THE FANS SERVING THE AREA SHALL BE SHUT DOWN AUTOMATICALLY.



CONDENSER UNIT DETAIL
N.T.S.

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Revisions

No.	Date	Description

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MECHANICAL SCHEDULES

SCALE: As indicated

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M2.1

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MECHANICAL (HVAC) SPECIFICATIONS

GENERAL

SCOPE

THE GENERAL SCOPE OF THE HVAC WORK IS TO REMOVE EXISTING SYSTEMS, MODIFY THE EXISTING SYSTEMS, AND PROVIDE NEW SYSTEMS AS INDICATED ON THESE DOCUMENTS

THE WORK TO BE DONE UNDER THIS DIVISION OF THE SPECIFICATIONS INCLUDE THE FURNISHING OF ALL EQUIPMENT, SUPPLIES, LABOR, SUPERVISION AND ALL MATERIALS NOT SPECIFICALLY MENTIONED BUT NECESSARY OR REQUIRED TO PROVIDE COMPLETE AND FULLY OPERATIONAL HVAC SYSTEMS. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

IT IS THE INTENT THAT ALL MECHANICAL WORK AND MATERIALS NECESSARY TO COMPLETE THE ENTIRE PROJECT IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS, WHETHER SPECIFICALLY MENTIONED HERE OR NOT, SHALL BE FURNISHED, ALL WORK AND MATERIALS NECESSARY TO FULFILL THIS INTENT SHALL BE SUPPLIED UNDER THE MECHANICAL SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.

DEFINITIONS

'FURNISH' OR 'PROVIDE' – TO FURNISH, ERECT, INSTALL AND CONNECT UP COMPLETE AND READY FOR OPERATION PARTICULAR WORK REFERRED TO, UNLESS SPECIFICALLY INDICATED OR SPECIFIED OTHERWISE.

'WORK' – LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND ALL OTHER ITEMS CUSTOMARILY FURNISHED AND/OR REQUIRED FOR PROPER AND COMPLETE INSTALLATION OF WORK.

'EXPOSED' – NOT INSTALLED UNDERGROUND OR 'CONCEALED' AS DEFINED ABOVE.

'INDICATE' OR 'SHOWN' – AS INDICATED OR SHOWN ON DRAWINGS OR SPECIFIED WITH SPECIFICATIONS.

'PIPING' – PIPE, FITTINGS, FLANGES, VALVES, CONTROLS, HANGERS, TRAPS, DRAINS, INSULATION AND ITEMS CUSTOMARILY OR REQUIRED IN CONNECTION WITH OR RELATING TO SUCH PIPING.

'SUPPLY' – TO PURCHASE, PRODUCE, ACQUIRE AND DELIVER COMPLETE WITH ALL RELATED ITEMS.

'INSTALL' – TO ERECT, MOUNT AND CONNECT UP COMPLETE WITH ALL RELATED ACCESSORIES.

'NOTED' – AS INDICATED ON DRAWINGS AND/OR SPECIFIED.

CODES, RULES, PERMITS AND FEES

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL STATE AND LOCAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL STATE AND LOCAL DEPARTMENTS HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVERY OF SAME TO THE OWNER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS), IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS WHETHER OR NOT SHOWN ON THE DRAWINGS AND/OR SPECIFIED.

THIS CONTRACTOR SHALL PERFORM AND FILE ALL TESTS IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE STATE AND LOCAL AUTHORITIES. HE SHALL FURNISH AND INSTALL SIGNS REQUIRED BY THE STATE AND LOCAL AUTHORITIES.

ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE RULES AND RECOMMENDATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, WITH ALL REQUIREMENTS OF LOCAL UTILITIES COMPANIES, WITH THE RECOMMENDATIONS OF THE FIRE INSURANCE RATING ORGANIZATION HAVING JURISDICTION.

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CURRENT CONNECTICUT STATE BUILDING CODE, INCLUDING THE MOST CURRENTLY ADOPTED CONNECTICUT SUPPLEMENT AND APPLICABLE AMENDMENTS, STATE FIRE SAFETY CODE, NATIONAL BUILDING CODE, (INTERNATIONAL RESIDENTIAL CODE, INTERNATIONAL MECHANICAL CODE,) INTERNATIONAL PLUMBING CODE, N.F.P., A.D.A., UL., NEMA, O.S.H.A. AND WITH ALL REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION. REQUIREMENTS OF THE ABOVE SHALL TAKE PRECEDENCE OVER PLANS AND SPECIFICATIONS.

INSURANCE

THE MECHANICAL CONTRACTOR SHALL FURNISH STATUTORY COMPENSATION INSURANCE CERTIFICATES FOR PERSONAL AND PROPERTY DAMAGE DISABILITY/LIABILITY AS REQUIRED BY THE OWNER AND/OR AS HEREINBEFORE DESCRIBED.

GUARANTEE AND SERVICE

THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE INSTALLATION. IN ADDITION, THE CONTRACTOR SHALL PROVIDE, FREE OF CHARGE, ONE YEAR'S MAINTENANCE GUARANTEE ON MAINTAINED SERVICE AND ADJUSTMENT OF ALL EQUIPMENT IN THIS CONTRACT.

ALL COMPRESSORS TO HAVE (5) FIVE YEAR EXTENDED WARRANTEES.

DRAWINGS AND INTENT

DRAWINGS ARE INTENDED AS WORKING DRAWINGS FOR GENERAL LAYOUT OF THE VARIOUS HVAC SYSTEMS. HOWEVER, LAYOUT OF EQUIPMENT, ACCESSORIES, SPECIALTIES, DUCTWORK, AND PIPING SYSTEMS ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED, AND DO NOT NECESSARILY INDICATE EVERY REQUIRED PIPE, VALVE, FITTINGS, TRAP, ELBOW, TRANSITION, OFFSETS, OR SIMILAR ITEMS REQUIRED FOR A COMPLETE INSTALLATION.

ALL EXISTING CONDITIONS ARE NOT INDICATED ON THE DOCUMENTS AND THOSE SHOWN ARE APPROXIMATIONS. THE CONTRACTOR IS TO VERIFY, IN THE FIELD, ALL EXISTING CONDITIONS.

EXAMINATION OF PREMISES – SPECIAL NOTE: NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT SITE, OR ANY ALLEGED MISUNDERSTANDING OF MATERIAL TO BE FURNISHED, OR WORK TO BE DONE; IT BEING THAT TENDER OF PROPOSAL INDICATED WITH ITS AGREEMENT TO ITEMS AND CONDITIONS REFERRED TO HEREIN OR INDICATED ON AFOREMENTIONED DRAWINGS.

MEASUREMENTS

ALL MEASUREMENTS TAKEN AT THE BUILDING SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS. EVERY PART OF THE PLANS SHALL BE FITTED TO THE ACTUAL CONDITIONS AT THE BUILDING. IF IN CONFLICT WITH SCALE DIMENSIONS, CONTACT ARCHITECT FOR CLARIFICATION.

TEMPORARY SERVICES

THE HVAC CONTRACTOR IS TO COORDINATE WITH THE GENERAL CONTRACTOR, PRIOR TO PERFORMING WORK REQUIRING INTERRUPTION OF EXISTING SERVICES. THE CONTRACTOR SHALL SECURE FROM THE OWNER, APPROVAL OF THE PROPOSED OPERATION.

WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE WHENEVER POSSIBLE. THE MECHANICAL CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AND/OR CONNECTIONS WHERE REQUIRED AND/OR SCHEDULE AND PERFORM OVERTIME WORK FOR ANY OPERATION WHICH REQUIRED SHUTDOWN OF THE FACILITIES AT NO ADDITIONAL COST TO THE OWNER.

THE AREA OF CONSTRUCTION AND/OR ADJACENT SPACES MAY BE OCCUPIED DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR IS TO TAKE ALL NECESSARY MEASURES AND PROVIDE ALL MATERIALS TO ENSURE A SAFE ENVIRONMENT FOR THE FACILITY'S OCCUPANTS.

CONTINUITY OF EXISTING SYSTEMS

WHEREVER AN EXISTING SYSTEM IS REMOVED, PARTIALLY REMOVED, OR MODIFIED THE REMAINING SYSTEM IS TO FUNCTION FULLY AS BEFORE.

MAINTAIN CONTINUITY OF THE EXISTING AIR SYSTEMS, HYDRONIC SYSTEMS, AND CONTROL SYSTEMS TO THE AREAS NOT AFFECTED BY THIS ALTERATION.

SCAFFOLDING, RIGGING AND HOISTING

UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS FURNISHED.

THE CONTRACTOR SHALL REMOVE SAME FROM PREMISES WHEN NO LONGER REQUIRED.

HOUSEKEEPING

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING STOCK OF MATERIALS AND EQUIPMENT STORED ON PREMISES, AT LOCATIONS DESIGNATED FOR SUCH USE, IN A NEAT AND ORDERLY MANNER.

THIS CONTRACTOR SHALL AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY HIS EMPLOYEES AT WORK. HE SHALL REMOVE HIS RUBBISH AND SURPLUS MATERIALS FROM THE JOB SITE AT THE END OF EACH WORK DAY AND SHALL LEAVE THE PREMISES AND HIS WORK IN A CLEAN AND ORDERLY CONDITION.

ALL MATERIAL SCHEDULED FOR REMOVAL IS TO BE DISPOSED OF IN A MANNER MEETING ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

PROTECTION OF MATERIALS AND EQUIPMENTS

CLOSE PIPE OPENINGS WITH CAPS OR PLUGS DURING INSTALLATION.

PROVIDE TEMPORARY CLOSURES ON OPEN ENDED DUCTS DURING CONSTRUCTION PERIOD.

TIGHTLY COVER AND PROTECT FIXTURES AND EQUIPMENT AGAINST DIRT, WATER AND CHEMICAL OR MECHANICAL INJURY.

AT COMPLETION OF ALL WORK, FIXTURES, EXPOSED MATERIALS AND EQUIPMENT SHALL BE THOROUGHLY CLEANED.

WORK NOT INCLUDED

ALL ELECTRICAL WORK
CUTTING AND PATCHING
LINTELS AND STRUCTURAL FRAMING
ALL CONCRETE WORK
ALL PAINTING

THIS CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH THE SIZES AND LOCATIONS OF CHASES AND OPENINGS WHICH OCCUR IN WALLS, PARTITIONS, FLOORS, ROOFS, ETC., REQUIRED FOR THE INSTALLATION OF THE WORK CALLED FOR UNDER THIS CONTRACT. THIS WORK WILL BE DONE BY THE GENERAL CONTRACTOR, EXCEPT CUTTING REQUIRED FOR THE INSTALLATION OF HANGERS.

SHOP DRAWINGS

PRIOR TO DELIVERY TO THE JOB SITE, BUT SUFFICIENTLY IN ADVANCE OF REQUIREMENTS NECESSARY TO ALLOW ENGINEER AMPLE TIME FOR REVIEW, CONTRACTOR SHALL SUBMIT FOR APPROVAL, FIVE (5) COPIES OF EACH SHOP DRAWING.

INDICATE ON EACH SUBMISSION:

1. PROJECT NAME AND LOCATION
2. ARCHITECT AND ENGINEER
3. ITEM IDENTIFICATION
4. APPROVAL STAMP OF PRIME CONTRACTOR

ALL DUCTWORK SHOP DRAWINGS AND COORDINATION DRAWINGS SHALL BE SUBMITTED ON 3/8 IN SCALE DRAWINGS AND SHALL INCLUDE LOCATIONS AND SIZES OF EXISTING EQUIPMENT ALONG WITH NEW WORK. DRAWINGS SHALL INDICATE LOCATIONS OF HANGERS, SUPPORTS, EXPANSION JOINTS, GUIDES, ANCHORS AND ANCHOR LOADS.

COORDINATION DRAWINGS SHALL INDICATE ALL MEP EQUIPMENT, DUCTS AND PIPES AND PERTINENT ARCHITECTURAL ITEMS. MOUNTING HEIGHTS SHALL BE NOTED.

SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

1. DUCTWORK LAYOUT, SHEET METAL DETAILS/STANDARDS
2. COORDINATION DRAWINGS

SUBMITTALS

PRIOR TO DELIVERY TO THE JOB SITE, BUT SUFFICIENTLY IN ADVANCE OF REQUIREMENTS NECESSARY TO ALLOW ENGINEER AMPLE TIME FOR REVIEW, CONTRACTOR SHALL SUBMIT FOR APPROVAL, FIVE (5) COPIES OF EACH SHOP DRAWING.

INDICATE ON EACH SUBMISSION:

1. PROJECT NAME AND LOCATION
2. ARCHITECT AND ENGINEER
3. ITEM IDENTIFICATION
4. APPROVAL STAMP OF PRIME CONTRACTOR

SUBMIT SUBMITTALS ON THE FOLLOWING:

1. PIPING MATERIALS
2. PIPING SPECIALTIES
3. PIPING INSULATIONS
4. DUCT MATERIALS
5. DUCTWORK SPECIALTIES
6. DUCTWORK INSULATORS
7. AIR OUTLETS (RGD)
8. HEATING EQUIPMENT
9. AIR CONDITIONING EQUIPMENT
10. FANS
11. CONTROLS
12. HYDRONIC SYSTEMS BALANCING REPORTS
13. AIR SYSTEMS BALANCING REPORTS

EQUIPMENT DEVIATION

THE PLANS AND/OR SPECIFICATIONS INDICATE THE NAME, MODEL NUMBER OR TYPE OF EQUIPMENT OR MATERIALS SPECIFIED TO SET THE STANDARD OF THE EQUIPMENT FOR THE PROJECT. THE ENGINEER WILL ENTERTAIN THE USE OF OTHER MANUFACTURER'S EQUIPMENT OF LIKE FUNCTIONS AND EQUAL QUALITY. FINAL ACCEPTANCE OF SUBSTITUTES IS AT THE ENGINEER'S DISCRETION. SHOULD THE BIDDER DESIRE TO USE EQUIPMENT OR MATERIALS OR A MANUFACTURER OTHER THAN THOSE SPECIFIED OR SHOWN, HE SHALL ATTACH A RIDER TO THE BID FORM LISTING THE DEDUCTIONS AND/OR ADDITIONS TO HIS BASE BID, TOGETHER WITH THE MANUFACTURE'S NAME AND MODEL NUMBERS OF THE EQUIPMENT OR MATERIALS HE PROPOSED TO FURNISH AS 'SUBSTITUTES'. IF NO SUBSTITUTE INFORMATION IS FURNISHED, IT WILL BE EXPRESSLY UNDERSTOOD THAT ALL EQUIPMENT AND MATERIALS NAMED WILL BE FURNISHED IN FULL ACCORDANCE WITH THE PLANS AND/OR SPECIFICATIONS.

RECORD DRAWINGS

CONTRACTOR SHALL KEEP ACCURATE RECORD OF ALL DEVIATIONS IN WORK AS ACTUALLY INSTALLED FROM WORK INDICATED PAYING PARTICULAR ATTENTION TO DIMENSIONING OUTSIDE UNDERGROUND UTILITY LINES, THEIR OFFSETS AND VALVES.

AT THE CLOSE–OUT OF THE PROJECT THE CONTRACTOR IS TO DELIVER TO THE OWNER TWO SETS OF "AS–BUILT" DRAWINGS COPIES OF ALL APPROVED SHOP DRAWINGS.

OWNER'S INSTRUCTIONS AND SYSTEM OPERATION

THE CONTRACTOR IS TO INSTRUCT THE OWNER, OR HIS REPRESENTATIVE, ON THE OPERATION AND MAINTENANCE PROCEDURES FOR ALL OF THE INSTALLED SYSTEMS AND EQUIPMENT. IN ADDITION TO THE VERBAL INSTRUCTIONS, THESE INSTRUCTIONS SHALL BE WRITTEN IN LAYMAN'S LANGUAGE AND SHALL BE INSERTED IN VINYL–COVERED THREE–RING LOOSE LEAF BINDER. THIS INFORMATION IN BINDER SHALL BE FIRST SENT TO AND APPROVED BY THE ARCHITECT/ENGINEER BEFORE TURNING OVER TO OWNER.

INSTALLATIONS

SLEEVES

PROVIDE NO. 22 GA. GALVANIZED IRON SLEEVES EXTENDED THROUGH CONSTRUCTION AT ALL PENETRATIONS THROUGH CEILINGS, WALLS AND PARTITIONS.

FOR INSULATED PIPING THE SLEEVE IS TO BE SIZED TO ALLOW INSULATION TO PASS THROUGH SLEEVE, PROVIDE 1/2 INCH SPACE BETWEEN PIPE AND/OR INSULATION AND SLEEVE.

FIRE SEAL ALL SLEEVES IN ACCORDANCE WITH BUILDING CODE AND APPLICABLE SECTIONS OF THE NFPA.

EXPANSION ANCHORS

SUSPEND HANGERS FROM EXPANSION ANCHORS IN SOLID CONCRETE SLABS SIMILAR TO HILTI HDI. PROVIDE HANGER IN PLACE WITH DOUBLE NUTS.

PROVIDE PROTECTION SHIELDS IN INSULATED PIPING. INSTALL HANGERS OVER INSULATION AND SHIELDS.

WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND REVIEWED.

HANGERS AND SUPPORTING

PIPE HANGING AND SUPPORTING – PIPING SHALL NOT BE SUPPORTED BY OTHER PIPING, BUT SHALL BE SUPPORTED WITH PIPE HANGERS SUITABLE FOR THE SIZE OF PIPE AND PROPER STRENGTH AND QUALITY AT PROPER INTERVALS SO THAT THE PIPING CANNOT BE MOVED ACCIDENTALLY FROM THE INSTALLED POSITION AS FOLLOWS:

PROVIDE CLEVIS HANGERS	AT CENTER OF CENTER SPACING (UNLESS OTHERWISE NOTED)
1/2 INCH PIPE OR TUBING	6 FEET
3/4 INCH OR 1 INCH PIPE OR TUBING	8 FEET
1–1/4 INCH OR LARGER (HORIZONTAL)	10 FEET
1–1/4 INCH OR LARGER (VERTICAL)	EVERY FLOOR LEVEL

DUCT HANGING AND SUPPORTING – DUCTWORK SHALL NOT BE SUPPORTED BY OTHER DUCTWORK OR PIPING, BUT SHALL BE SUPPORTED WITH HANGERS OF TYPE AND AT SPACING AS PER SMACNA STANDARDS.

VIBRATION AND SEISMIC CONTROL

QUIET OPERATION – ALL WORK SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY SOUND OR VIBRATION WHICH IS OBJECTIONABLE IN THE OPINION OF THE ENGINEER. IN CASE OF MOVING MACHINERY, SOUND OR VIBRATION NOTICEABLE OUTSIDE OF ROOM IN WHICH IT IS INSTALLED, OR ANNOYING INSIDE ITS OWN ROOM, WILL BE CONSIDERED OBJECTIONABLE BY THE ENGINEER AND SHALL BE REMEDIED IN APPROVED MANNER BY THE CONTRACTOR AT HIS EXPENSE.

PROVIDE FLEXIBLE PIPE CONNECTIONS AT ALL PIPING CONNECTED TO MOVING EQUIPMENT.

PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL DUCTWORK CONNECTED TO MOVING EQUIPMENT. FLEXIBLE CONNECTIONS SHALL BE 29 OZ. NEOPRENE COATED FIBERGLASS, 6" WIDE. BURNING PROPERTIES SHALL CONFORM TO NFPA 90A. FASTEN TO DUCTWORK PER MANUFACTURER'S RECOMMENDATIONS. FABRIC SHALL NOT BE STRESSED OTHER THAN BY AIR PRESSURE. ALLOW AT LEAST ONE INCH SLACK TO INSURE THAT NO VIBRATION IS TRANSMITTED.

PROVIDE VIBRATION ISOLATION SPRINGS OR PADS AT MOUNTING AND SUPPORTS FOR ALL EQUIPMENT CAPABLE OF TRANSMITTING VIBRATIONS.

SEISMIC RESTRAINTS

SEISMIC RESTRAINTS DESIGNED AND CONSTRUCTED FOR LATERAL FORCES IN ANY DIRECTION SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH THE STATE BUILDING CODE.

SEISMIC RESTRAINTS SHALL NOT BE REQUIRED FOR THE FOLLOWING:

1. PIPING IN BOILER AND MECHANICAL ROOMS LESS THAN 1–1/4 INCH INSIDE DIAMETER.
2. ALL OTHER PIPING LESS THAN 2–1/2 INCH INSIDE DIAMETER.
3. RECTANGULAR AIR–HANDLING DUCTS LESS THAN 6 SQUARE FEET IN CROSS–SECTIONAL AREA.
4. ROUND AIR–HANDLING DUCTS LESS THAN 28 INCHES IN DIAMETER.
5. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.
6. DUCTS SUSPENDED BY HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

SEISMIC RESTRAINT FOR DUCTWORK; PROVIDE REQUIRED BRACING MATERIAL. DUCTWORK SHALL BE SUPPORTED AND BRACED TO RESIST ALL DIRECTIONAL (TRANSVERSE, LONGITUDINAL AND VERTICAL) FORCES EQUAL TO 10 PERCENT OF THE WEIGHT OF THE DUCT SYSTEM.

IDENTIFICATION

ALL IDENTIFICATION LABELING IS TO COMPLY WITH ASME A13.1

ALL PIPING IS TO BE LABELED WITH INDICATIONS OF SERVICE AND DIRECTION OF FLOW.

ALL DUCTWORK IS TO BE LABELED WITH INDICATIONS OF SERVICE, DIRECTION OF FLOW AND ASSOCIATED SYSTEM DESIGNATION.

ALL EQUIPMENT IS TO HAVE PERMANENT LABELS INDICATING EQUIPMENT DESIGNATION.

PIPING INSTALLATION

SIZES AND APPROXIMATE LOCATION OF PIPING SYSTEMS ARE SHOWN ON THE DRAWINGS. CHECK CAREFULLY WITH THE ARCHITECTURAL DRAWINGS, DRAWINGS SHOWING WORK OF OTHER TRADES, AND EXISTING FIELD CONDITIONS TO MAKE SURE THAT THERE WILL BE NO CONFLICT BETWEEN THESE TRADES AND THE PIPING SYSTEMS. PIPES SHALL BE OFFSET AS REQUIRED TO CLEAR STRUCTURAL MEMBERS AND EXISTING FIELD CONDITIONS.

PIPING TO BE INSTALLED WITH PROPER PITCH TO LOW POINTS. PROVIDE DRAIN VALVES AT ALL LOW POINTS AND AIR VENTS AT ALL HIGH POINTS OF THE PIPING SYSTEM.

INSTALL PIPING TO ALLOW FOR PIPE EXPANSION.

DUCT INSTALLATION

SIZES AND APPROXIMATE LOCATION OF ALL DUCTS ARE SHOWN ON THE DRAWINGS. CHECK CAREFULLY WITH THE ARCHITECTURAL DRAWINGS, DRAWINGS SHOWING WORK OF OTHER TRADES, AND EXISTING FIELD CONDITIONS TO MAKE SURE THAT THERE WILL BE NO CONFLICT BETWEEN THESE TRADES AND THE DUCTS. DUCTS SHALL BE OFFSET AS REQUIRED TO CLEAR STRUCTURAL MEMBERS AND EXISTING FIELD CONDITIONS; IF NECESSARY, THE DIMENSIONS OF THE DUCT MAY BE ALTERED PROVIDED THE CROSS–SECTIONAL AREA IS IN NO CASE REDUCED.

FIELD QUALITY CONTROL

PERFORM THE FOLLOWING FIELD TESTS AND INSPECTIONS ACCORDING TO SMACNA'S "HVAC AIR DUCT LEAKAGE TEST MANUAL" AND PREPARE TEST REPORTS:

DISASSEMBLE, REASSEMBLE AND SEAL SEGMENTS OF SYSTEMS TO ACCOMMODATE LEAKAGE TESTING AND FOR COMPLIANCE WITH TEST REQUIREMENTS.

CONDUCT TESTS AT STATIC PRESSURES EQUAL TO MAXIMUM DESIGN PRESSURE OF SYSTEM OR SECTION BEING TESTED. IF PRESSURE CLASSES ARE NOT INDICATED, TEST ENTIRE SYSTEM AT MAXIMUM SYSTEM DESIGN PRESSURE. DO NOT PRESSURIZE SYSTEMS ABOVE MAXIMUM DESIGN OPERATING PRESSURE. GIVE SEVEN DAYS ADVANCE NOTICE FOR TESTING.

MAXIMUM ALLOWABLE LEAKAGE; COMPLY WITH REQUIREMENTS FOR LEAKAGE CLASS 3 FOR ROUND AND FLAT–OVAL DUCTS, LEAKAGE CLASS 12 FOR RECTANGULAR DUCTS IN PRESSURE CLASSES LOWER THAN AND EQUAL TO 2–INCH WG (500 PA) (BOTH POSITIVE AND NEGATIVE PRESSURES), AND LEAKAGE CLASS 6 FOR PRESSURE CLASSES FROM 2– TO 10– WG (500 TO 2500 PA).

REMAKE LEAKING JOINTS AND RETEST UNTIL LEAKAGE IS EQUAL TO OR LESS THAN MAXIMUM ALLOWABLE.

MATERIALS

DISSIMILAR METALS

WHENEVER DISSIMILAR PIPING MATERIALS ARE CONNECTED THE TWO SHALL BE SEPARATED WITH AN 'INSULATION' CONNECTION (DIELECTRIC) FITTING.

PIPING

HOT WATER HEATING PIPING

TYPE L COPPER TUBING WITH SWEAT FITTINGS WITH 95–5 SOLDER OR STANDARD WEIGHT, SCHEDULE 40, OPEN HEARTH STEEL, NATIONAL OR EQUAL FITTINGS FOR STEEL PIPE SHALL BE AS FOLLOWS: GENERALLY, BUTT WELDING FITTINGS OVER TWO INCHES SHALL BE USED AND EITHER SOCKET–WELD OR SCREWED FOR TWO INCHES AND UNDER. WELDING FITTINGS SHALL BE STANDARD FORGED STEEL WITH CHAMFERED ENDS. ALL BRANCHES SHALL BE WELDED WITH EITHER WELDOLETE OR TEES, OR MATCH EXISTING MATERIALS.

CONDENSATION DRAIN PIPING

TYPE DWV COPPER TUBING WITH DWV SWEAT FITTINGS OR PVC (EXCEPT IF LOCATED IN A SPACE USED AS AN AIR PLENUM)

REFRIGERANT PIPING

TYPE ACR SERVICE COPPER TUBING MEETING ASTM B280: HARD DRAWN (ANY SIZE) OR SOFT DRAWN (1–5/8" ID OR SMALLER), OR AS PER MANUFACTURER'S RECOMMENDATIONS.

PIPE INSULATION

THE FOLLOWING PIPING SYSTEMS ARE TO BE INSULATED:

REFRIGERANT SUCTION LINE PIPING

CONDENSATE DRAIN PIPING INSULATION

INSULATE WITH 1/2" THICK HEAVY DENSITY FIBERGLASS 25 ASJ WITH VAPOR BARRIER AND LAP ADHESIVE JACKET. INSULATION ON FITTINGS SHALL BE FIBERGLASS WITH PRE–MOLDED JACKET.

REFRIGERANT PIPING INSULATION

INSULATE SUCTION LINE AND LIQUID WITH ARMAFLEX INSULATION. MINIMUM INSULATION THICKNESS SHALL BE 1".

VALVES AND SPECIALTIES

BALANCING FITTINGS

PROVIDE "B & G" CIRCUIT SETTER BALANCING FITTINGS ON ALL WATER SYSTEMS WHENEVER REQUIRED FOR BALANCING OF SYSTEMS.

THERMOMETERS

SHALL BE TRERICE UNIVERSAL ANGLE TYPE #L80732, SOLID LIQUID FILLED, 4 ½" DIAL SIZE. FURNISH WITH SEPARABLE SOCKET WITH 2" EXTENSION NECK.

DUCTWORK

SHEET METAL DUCTWORK

ALL DUCTWORK SHALL BE CONSTRUCTED OF #1 QUALITY SHEETS OF GALVANIZED STEEL FREE OF CRACKS OR BLEMISHES. WHEN PITTSBURGING OR SNAP LOCKING A JOINT, THE GALVANIZED STEEL SHALL NOT BE CHIPPED OFF. ALL PARTS OF THE SHEET METAL DUCT SYSTEM SHALL BE OF THE GAGE, CONSTRUCTION, HANGING METHOD, AND INSTALLED IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE SMACNA STANDARDS, INCLUDING DUCT LEAKAGE REQUIREMENTS.

FLEXIBLE DUCTWORK

FLEXIBLE DUCTS TO BE INSULATED TYPE; UL 181, CLASS 1, 2–PLY VINYL FILM SUPPORTED BY HELICALLY WOUND, SPRING–STEEL WIRE WITH FIBROUS–GLASS INSULATION AND POLYETHYLENE VAPOR BARRIER FILM. THE LENGTH OF FLEXIBLE DUCT IS NOT TO EXCEED 12'–0". FLEXIBLE DUCT MAY ONLY BE USED ON THE SUPPLY AIR SIDE OF LOW PRESSURE DUCT SYSTEMS.

MOISTURE LADEN AIR DUCTWORK

DUCTWORK WHICH CONVEYS AIR WITH A HIGH MOISTURE CONTENT, SUCH AS SHOWER EXHAUST AIR, SHALL BE CONSTRUCTED OF ALUMINUM SHEET MATERIAL MEETING SMACNA STANDARDS.

DUCT INSULATION

SOUND (ACOUSTIC) INSULATION

PROVIDE INTERNAL SOUND INSULATION IN ALL DUCTS WITHIN 10'–0" OF THE DISCHARGE OF AN AIR HANDLING UNIT AND WHERE INDICATED ON THE DRAWINGS. THE DUCTWORK SHALL BE LINED WITH JOHNS MANVILLE PERMACOTE LINACOUSTIC. THICKNESS, UNLESS SPECIFIED OTHERWISE, SHALL BE 1". LINER SHALL BE APPLIED TO DUCT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SMACNA GUIDELINES, LATEST EDITION. WHERE SOUND INSULATION IS INDICATED, DUCTWORK SIZES DENOTED ARE THE INSIDE DIMENSIONS AFTER THE INSULATION HAS BEEN INSTALLED.

THERMAL INSULATION

COVER ALL CONCEALED UNLINED SUPPLY AIR AND OUTSIDE AIR DUCTWORK WITH FIBERGLASS DUCT WRAP HAVING A MIN. R–6, EQUAL TO JOHNS MANVILLE R–SERIES MICROLITE WITH F.R.G. VAPOR BARRIER. ALL SUPPLY DUCTS, LOCATED IN ATTIC SHALL BE INSULATED TO MINIMUM R–8. COVER ALL EXPOSED UNLINED SUPPLY AIR AND OUTSIDE AIR DUCTWORK WITH RIGID FIBERGLASS BOARD INSULATION HAVING MIN. R–6. PROVIDE ALL TAPE, MASTICS, SEALANTS, MOUNTING PINS, AND ETC. TO INSTALL INSULATION AS RECOMMENDED BY THE MANUFACTURER.

THERMAL INSULATION SCHEDULE

INSULATE DUCTS IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. COMMERCIAL DUCTWORK SHALL BE INSULATED TO R–6 WHEN IN UNCONDITIONED SPACES AND R–8 WHEN LOCATED OUTSIDE THE BUILDING. COMMERCIAL DUCTWORK IN CONDITIONED SPACES DOES NOT REQUIRE INSULATION. RESIDENTIAL DUCTS OUTSIDE THE BUILDING ENVELOPE SHALL BE INSULATED TO A MINIMUM OF R–8. RESIDENTIAL DUCTWORK INSIDE THE BUILDINGS THERMAL ENVELOPE DOES NOT REQUIRE INSULATION. ALL EXTERIOR DUCTS TO BE INSULATED TO A MINIMUM OR R–8.

DUCT SEALING

SEAL ALL DUCTWORK IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE.

COMMERCIAL DUCTS, SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS.

RESIDENTIAL DUCTS, VERIFY DUCT LEAKAGE WITH POST CONSTRUCTION OR ROUGH–IN TEST. RESIDENTIAL DUCT LEAKAGE VERIFICATION NOT REQUIRED IF AIR HANDLER AND ALL DUCTS ARE LOCATED WITHIN "CONDITIONED SPACE."

DUCT INSULATION – EXTERIOR DUCTWORK

EXTERIOR DUCTWORK SHOULD FIRST BE WRAPPED WITH 1–1/2" THICK RIGID FIBERGLASS INSULATION, COVERED WITH #907 MASTIC, WEATHERPROOF MEMBRANE APPLIED AND WRAPPED FOR THE ENTIRE LENGTH, THEN RE–APPLY MASTIC AS FINAL SEALING AGENT.

DUCT ACCESSORIES

VOLUME DAMPERS

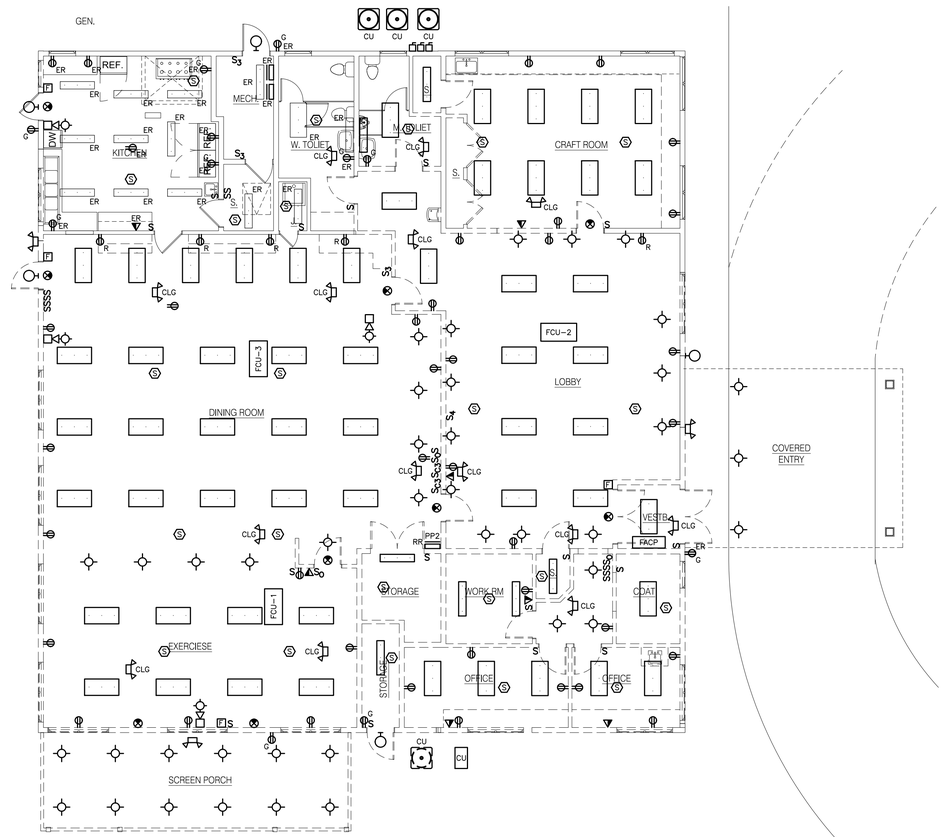
SINGLE BLADE OR OPPOSED BLADE MULTI–LOUVER TYPE AS DETAILED IN SMACNA STANDARDS. PROVIDE END BEARING FOR ALL DAMPERS. QUADRANT OR OTHER OPERATOR FOR EXTERNALLY INSULATED DUCT SHALL HAVE STAND–OFF MOUNT SO OPERATION IS CLEAR OF THE INSULATION. PROVIDE VOLUME DAMPER IN DUCTWORK AT ALL RUN–OUT DUCT TO EACH CEILING DIFFUSER, AT ALL BRANCH DUCTS AND WHERE INDICATED.

SMOKE AND/OR FIRE DAMPERS

PROVIDE SMOKE AND/OR FIRE DAMPERS AS REQUIRED, WHETHER INDICATED OR NOT, AT ALL FIRE AND SMOKE RATED PARTITIONS. REVIEW ARCHITECTURAL PLANS FOR DESIGNATIONS. FIRE DAMPERS SHALL BE RUSKIN IBD 2, VERTICAL OR HORIZONTAL, STYLE B OR STYLE C FOR ROUND DUCTS, OR EQUAL. EACH SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NFPA 90A LATEST EDITION AND BEAR U.L. LABEL AND SHALL CONFORM TO BULLETIN #UL–555. INSTALL IN ALL RATED WALLS AND CEILINGS AS REQUIRED AND/OR INDICATED ON DRAWINGS.

DUCT ACCESS DOORS

PROVIDE ACCESS DOORS, SIZED AND LOCATED FOR MAINTENANCE WORK, UPSTREAM WHERE POSSIBLE, FOR EACH DUCT MOU



ELECTRICAL DEMOLITION FIRST FLOOR PLAN

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

ELECTRICAL DEMOLITION NOTES

1. ALL EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICE SHOWN WITHOUT ("RR", "ER" OR "R") SHALL BE DISCONNECTED AND REMOVED, REMOVE ALL ASSOCIATED BACK BOX, CONDUIT AND WIRING BACK TO SOURCE OR LAST DEVICE
2. "RR" – INDICATES EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICE TO BE REMOVED AND RELOCATED. (EXTEND EXISTING WIRING AS REQUIRED)
3. "ER" – INDICATES EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICE TO REMAIN.
4. "R" – INDICATES EXISTING ELECTRICAL DEVICE TO BE REPLACED WITH NEW DEVICE IN KIND WITHIN EXISTING LOCATION, REUSE BACK BOX AND WIRING, PROVIDE NEW FACE PLATE TO DEVICE.
5. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
6. THE ELECTRICAL 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 CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE MECHANICAL DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. ANY ELECTRICAL EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER, AT OWNERS REQUEST, OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.
10. THE ELECTRICAL CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
11. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
13. THERE ARE EXISTING SPEAKERS IN THE CEILINGS, THAT OUR CLIENT WANTS TO RE-USE. CONTRACTOR TO REMOVE AND STORE, AND INSTALL IN NEW RENOVATED SPACE.

N

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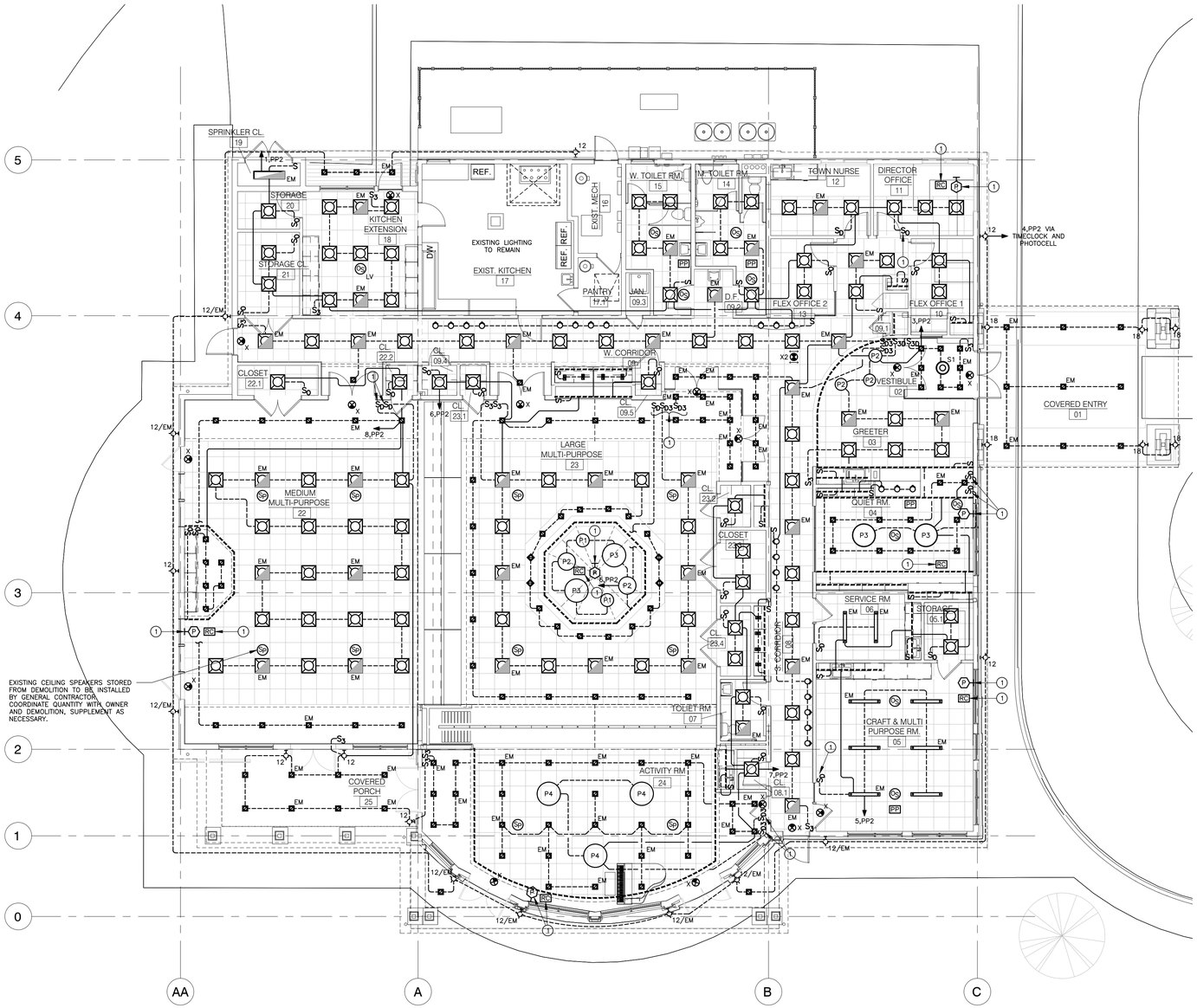

ELECTRICAL - LIGHTING FIRST FLOOR PLAN

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

LIGHTING LEGEND

SYMBOL	
	INDICATES LIGHT FIXTURE TYPE "A" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "B" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "B1" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "C" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "D" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "F" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "P1" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "P2" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "P3" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "P4" UNLESS OTHER WISE NOTED
	INDICATES LIGHT FIXTURE TYPE "S1" UNLESS OTHER WISE NOTED
12	INDICATES LIGHT FIXTURE TYPE "12" UNLESS OTHER WISE NOTED
18	INDICATES LIGHT FIXTURE TYPE "18" UNLESS OTHER WISE NOTED

LIGHTING NOTES

1. PROVIDE PHOTOCELL, ROOM CONTROLLER AND DIMMER TO DIM LIGHT FIXTURES WHEN SUFFICIENT DAY LIGHT IS PROVIDED INTO THE ROOM SET PHOTOCELL TO 50 FOOT CANDLES.

GENERAL NOTE:
ALL SWITCH LOCATIONS SHOWN FOR SOFFIT LIGHTS, WALL WASHERS, AND UNDER CABINET LIGHTS SHOWN FOR REFERENCE ONLY, COORDINATE ALL SWITCH LOCATIONS WITH USER AND/OR ARCHITECT PRIOR TO INSTALLATION.

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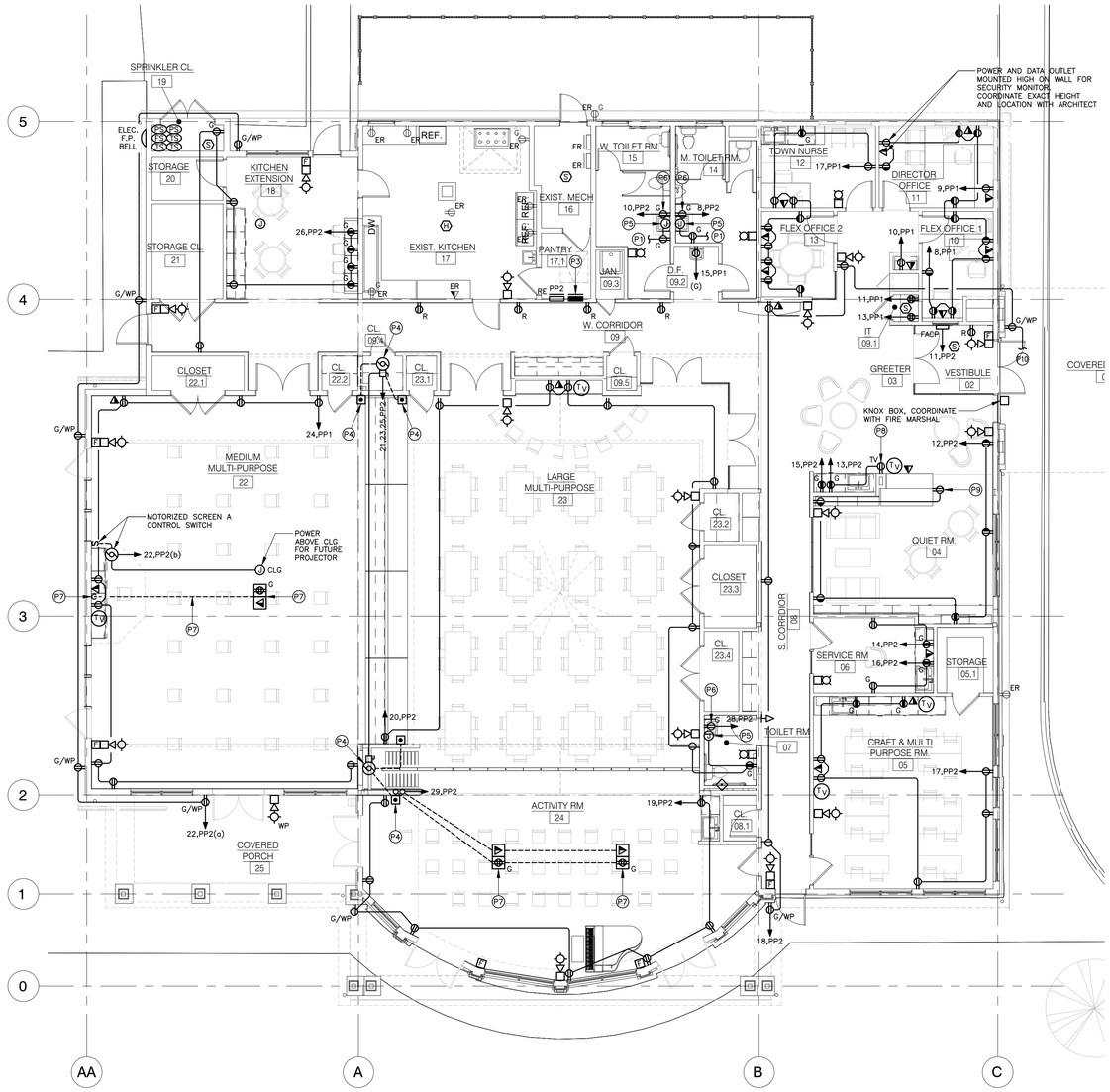
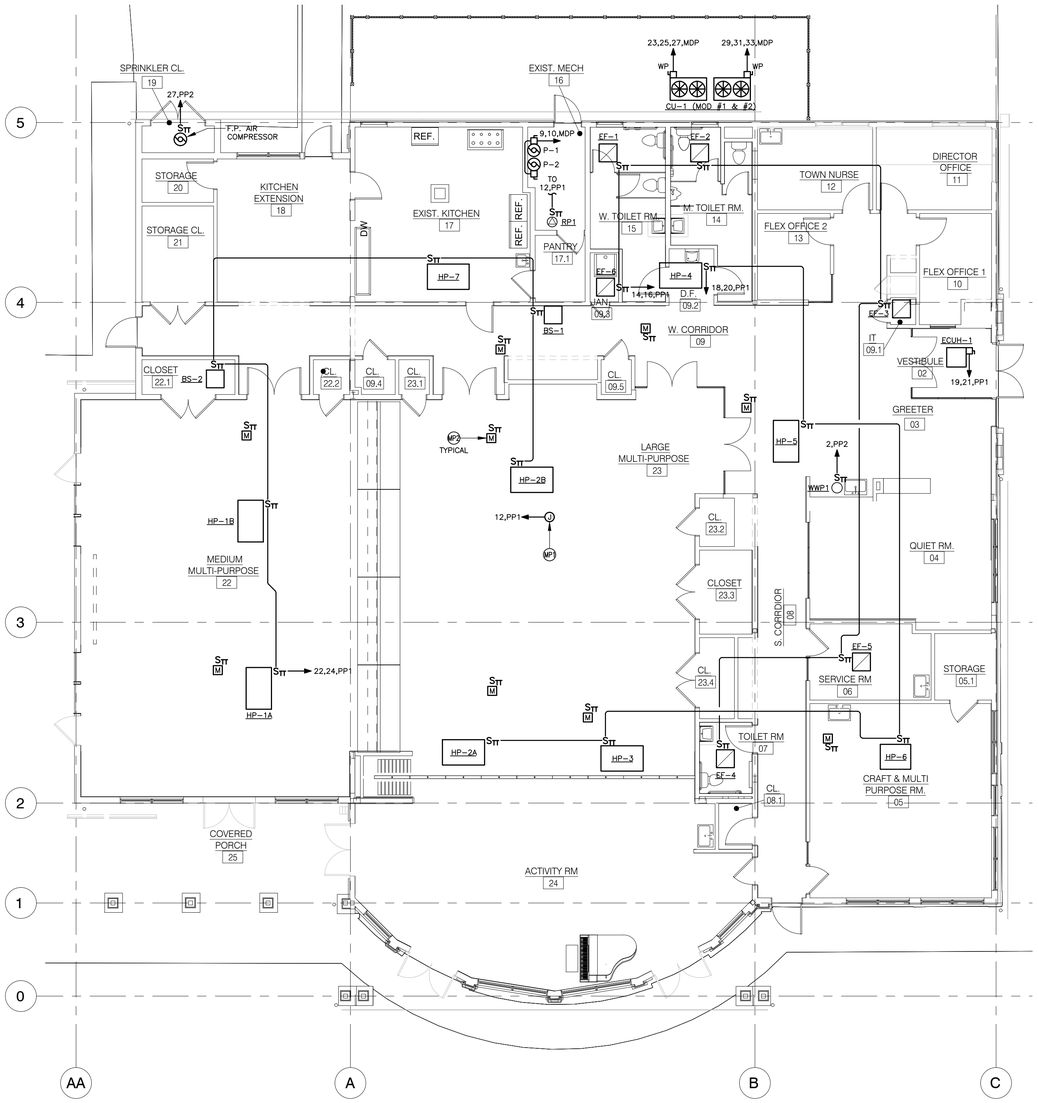


ELECTRICAL - POWER FIRST FLOOR PLAN

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



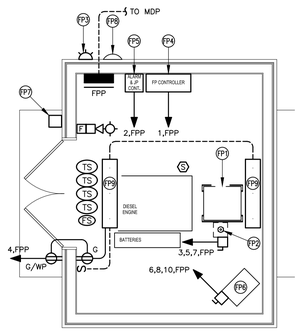
ELECTRICAL - MECHANICAL POWER FIRST FLOOR PLAN

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

POWER NOTES

- (P1) CONNECT TO EXISTING CIRCUIT EXTEND WIRING AS REQUIRED.
- (P2) 120V, 20A, CIRCUIT FROM PANELS WITHIN EXISTING "MECH. ROOM 16". (TYPICAL)
- (P3) PROVIDE ALLOWANCE FOR NEW PANEL BOARD RATED AT 200A, 208/120V, 42 POLE, (1) NEW 100A, 3P CIRCUIT BREAKER WITHIN EXISTING PANEL BOARD AND FEEDER RATED AT 1-1/4"C, 4#3, #8G TO FEED NEW PANEL BOARD IN THE EVENT EXISTING PANEL BOARDS CANNOT SUPPORT NEW CIRCUITS REQUIRED.
- (P4) MOTORIZED FOLDING DOOR AND CONTROL KEY SWITCH, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. (TYPICAL OF 2)
- (P5) POWER FOR SINK FAUCET & SOAP DISPENSER SENSORS.
- (P6) DEDICATED POWER FOR HAND DRYER, COORDINATE HEIGHT IN FIELD.
- (P7) RECESSED FLOOR BOX WITH RECESSED QUAD RECEPTACLE AND DATA OUTLET MODEL LEGRAND EVOLUTION EFB45 OR EQUAL. PROVIDE (2) CONDUITS BELOW SLAB 1"C-POWER AND 1-1/4"C-DATA. COORDINATE WITH A/V EQUIPMENT AT TV LOCATION ON WALL AND EXTEND CONDUIT TO TV LOCATION AS REQUIRED.
- (P8) RECEPTACLE WIRED DOWN STREAM FROM COUNTER'S GFI RATED RECEPTACLE TO PROVIDE GFI PROTECTION TO NON-ACCESSIBLE RECEPTACLE BEHIND TV.
- (P9) POWER FOR GAS FIRE PLACE, COORDINATE EXACT LOCATION OF RECEPTACLE AND PROVIDE POWER AS REQUIRED. INTERCONNECT WITH CONTROL SWITCH.
- (P10) EXTEND CIRCUIT TO FLAGPOLE AREA, COORDINATE WITH ARCHITECT/USER ELECTRICAL REQUIREMENTS AT FLAGPOLE AND PROVIDE POWER AS REQUIRED. (PROVIDE ALLOWANCE FOR FLAGPOLE LIGHT)

GENERAL NOTE:
CONTRACTOR TO PROVIDE GROUND PENETRATING RADAR TO LOCATE ALL EXISTING IN-FLOOR HEATING PIPING PRIOR TO TRENCHING OR DRILLING INTO EXISTING SLAB.



DIESEL FIRE PUMP ELECTRICAL PLAN

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

FIRE PUMP ELECTRICAL NOTES

- (FP1) PENTAIR FIRE PUMP, VERTICAL TURBINE DIESEL DRIVEN FIRE PUMP MODEL #F11FGM7000F00 6x16.5, 500 GPM AT 100 PSI, 54 HP.
- (FP2) JOCKEY PUMP PENTAIR "STA-RITE" HS SERIES, MODEL# 5 GPM AT 110 PSI, .75HP, 208V/3ø.
- (FP3) STROBE WITH ALARM (PUMP RUNNING).
- (FP4) FIRE PUMP CONTROL PANEL INTERCONNECT WITH FACP.
- (FP5) JOCKEY PUMP CONTROL PANEL INTERCONNECT WITH FACP.
- (FP6) ELECTRIC UNIT HEATER.
- (FP7) KNOX BOX, COORDINATE WITH LOCAL FIRE OFFICIALS.
- (FP8) ELECTRIC BELL.
- (FP9) 4FT LED INDUSTRIAL LIGHT FIXTURE WITH EMERGENCY BATTERY PACK.

MECHANICAL POWER NOTES

- (MP1) DEDICATED 20A CIRCUIT FOR MISC. MECHANICAL EQUIPMENT. (EX. MOTORIZED DAMPER, CONTROL PANEL, L.V. TXF, ETC....)
- (MP2) MOTORIZED DAMPER, COORDINATE EXACT LOCATION WITH MECHANICAL AND PROVIDE STT SWITCH AND POWER FROM MISC. MECHANICAL EQUIPMENT CIRCUIT.

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SCALE: As indicated

SHEET: E1.1

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GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR A COMPLETE, FULLY OPERABLE INSTALLATION. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST APPROVED ISSUE OF THE NEC AND APPLICABLE LOCAL CODES.
2. PRIOR TO SUBMISSION OF BIDS GIVE WRITTEN NOTICE TO ARCHITECT AND ENGINEER OF ANY MATERIAL OR APPARATUS THAT IS INADEQUATE, UNSUITABLE FOR THE USE, IN VIOLATION OF LAWS, ORDINANCES, RULES, CODES OR ANY REGULATIONS OF AUTHORITIES HAVING JURISDICTION OR ANY NECESSARY ITEMS OF WORK THAT HAS BEEN OMITTED. CONTRACTOR AFFIRMS THAT ABSENT SUCH NOTICE, ALL SYSTEMS WILL FUNCTION SATISFACTORILY WITHOUT ADDITIONAL EXTRA COMPENSATION.
3. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND ADHERE TO THE CONTENTS OF THE BID DOCUMENTS. ANY DEVIATIONS FROM THE INFORMATION PROVIDED IN THE DOCUMENTS MUST BE LISTED IN WRITING. INNOVATIVE ENGINEERING SERVICES, LLC HAS THE RIGHT TO BE COMPENSATED FOR REVIEW OF VALUE ENGINEERING OR SUBSTITUTED MATERIALS AND EQUIPMENT.
4. ELECTRICAL CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO THEIR ORIGINAL CONDITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING, CLEAN-UP, ELECTRICAL DEBRIS REMOVAL AND GENERAL COORDINATION OF THE WORK EFFORT AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL ITEMS OF WORK.
5. THE DRAWINGS SHOW THE GENERAL LAYOUT AND SOME OF THE DETAIL, BUT THEY DO NOT SHOW EVERY FITTING, BEND, ... ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUCH MATERIALS TO MAKE A COMPLETE INSTALLATION.
6. ALL PART NUMBERS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THEY ARE NOT TO BE CONSIDERED THE COMPLETE SPECIFICATION OF THE PRODUCT. THE PART NUMBER AND DESCRIPTION WILL BE THE COMPLETE SPECIFICATION. IN THE EVENT OF A DISCREPANCY BETWEEN THE TWO, THE MORE STRINGENT, MORE COSTLY FEATURE/PERFORMANCE WILL BE REQUIRED.
7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL PHASES OF THE WORK AND TO DEMONSTRATE TO OWNER THAT THE EQUIPMENT IS IN FULL OPERATING ORDER.
8. DO NOT SCALE DRAWINGS; ACTUAL FIELD MEASUREMENTS AND DIMENSIONS TAKE PRECEDENCE IN ALL CASES.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT, AIA DOCUMENT 201, LATEST EDITION.
10. ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.
11. IN ADDITION TO THE REQUIREMENTS SHOWN FOR LOW VOLTAGE EQUIPMENT AND RACEWAYS, THE ELECTRICIAN SHALL CARRY AN ALLOWANCE FOR FINAL COORDINATION OF ALL RACEWAYS AND SLEEVES REQUIRED TO FACILITATE THE LOW VOLTAGE CONSULTANT WORK.
12. ELECTRICAL CONTRACTOR SHALL WARRANT AND GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
13. ELECTRICAL CONTRACTOR SHALL GIVE OWNER 10 DAYS ADVANCE NOTICE OF SHUTDOWNS, OR AS DIRECTED BY THE OWNER. SHUTDOWNS TO BE KEPT TO A MINIMUM. AT NO TIME SHALL THE BUILDING/SPACE BE LEFT WITHOUT COMMERCIAL POWER IN FULL OPERATING ORDER.
14. PROVIDE INDEPENDENT SEISMIC SUPPORT OF ALL ELECTRICAL EQUIPMENT PER THE LATEST ADOPTED VERSION OF THE INTERNATIONAL BUILDING CODE.
15. ALL ELECTRICAL PENETRATIONS TO BE FIREPROOFED TO MAINTAIN INTEGRITY OF FIRE WALLS/FLOORS/CEILINGS.
16. ALL THE WIRE SIZES ARE BASED ON COPPER, ALUMINUM IS NOT TO BE USED UNLESS NOTED OTHERWISE.
17. MINIMUM CONDUCTOR SIZE FOR A FULLY LOADED 20A CIRCUIT, UNLESS OTHERWISE NOTED, SHALL BE #12 FOR ALL BRANCH CIRCUIT RUNS UP TO THE FIRST OUTLET; OVER 60 FEET, #10; OVER 105 FEET, #8; INCREASE CONDUIT SIZE TO SUIT.
18. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE CIRCUITS EVENLY ON ALL PHASES.
19. ALL WIRING METHODS ARE TO BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES. ALL WIRING IS TO BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL WIRING IS TO BE CONCEALED.
20. ELECTRICAL CONTRACTOR MUST COORDINATE LED DRIVER WITH DIMMER SWITCH FOR COMPARABILITY.
21. SHARED NEUTRALS ARE NOT TO BE USED. PROVIDE SEPARATE NEUTRALS FOR ALL NEW CIRCUITS INCLUDING SWITCHES PER THE LATEST EDITION OF THE NEC.
22. FOR ALL ROOFTOP OR GRADE LEVEL HVAC EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL SUPPLY A GFCI WP, 20A RECEPTACLE FOR EQUIPMENT SERVICING. ALL DISCONNECT SWITCHES ARE TO BE HEAVY DUTY, FUSED, WEATHER PROOF (WP) DEVICES.
23. FOR ALL FLOOR BOXES WITH DATA COMMUNICATIONS SERVICES PROVIDE (2) 3/4" EMPTY CONDUITS TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. INSTALL A DRAG WIRE.
24. FOR ALL WALL/CEILING BOXES FOR DATA COMMUNICATIONS PROVIDE 1-1/4"C EMPTY CONDUITS TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. INSTALL A DRAG WIRE.
25. RISER DIAGRAMS ARE PROVIDED TO SHOW DIAGRAMMATIC GENERAL WIRING REQUIREMENTS. WIRING IS TO BE PROVIDED FOR THE PARTICULAR VENDOR/SYSTEM APPROVED FOR THE PROJECT. ALL WIRING IS TO BE CONCEALED.
26. ALL WIRING IN AIR PLENUM CEILINGS SHALL BE TEFLON COATED AND RATED FOR USE WITHIN THE PLENUM.
27. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
28. EMERGENCY SERVICES SHALL BE RUN IN SEPARATE RACEWAYS FROM ALL OTHER SYSTEMS.
29. PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.
30. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, POKE THROUGH'S, WIREMOLD, GENERATOR, ATS AND SPECIALTY ELECTRICAL SYSTEMS, ETC.
31. ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING HEIGHT REQUIREMENTS FOR VARIOUS CEILING TYPES AND ORDER APPROPRIATE HARDWARE.
32. COORDINATE EXACT PLACEMENT OF EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL PLANS, MAKE FIELD ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS, VERIFY WITH OWNER.
33. ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MECHANICAL CONTRACTOR FOR ITEMS SUPPLIED BY THE MECHANICAL/OTHER DIVISIONS BUT INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REVIEW ALL THE PLANS FOR THE PROJECT AND ASSIST IN PROVIDING COORDINATION DRAWINGS WITH OTHER TRADES.
34. ELECTRICAL CONTRACTOR TO VERIFY LOADS, SETTINGS, OVERCURRENT PROTECTION... ETC TO INSURE COMPATIBILITY OF EQUIPMENT.
35. PROVIDE LAMICOID NAMEPLATES AND TYPEWRITTEN PANEL SCHEDULES FOR ALL PANEL BOARDS, DISTRIBUTION AND DISCONNECT EQUIPMENT, MODIFIED OR PROVIDED AS NEW AS PART OF THE SCOPE OF WORK. ALTERNATE LABELING PROVISIONS MUST BE APPROVED BY THE ENGINEER.
36. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND OUTLETS.
37. CONTRACTOR TO PROVIDE ALL COORDINATION FOR UTILITY SERVICES INCLUDING TEMPORARY SERVICE FOR THE PROJECT. THIS INCLUDES POWER UTILITY, TELEPHONE COMPANY AND CABLE TV OPERATOR.
38. DISCONNECT SWITCHES AND CIRCUIT BREAKER USED AS SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE "NEC" SECTION 110.26 TABLE 110.26(A)(1) AND SECTION 404.8. ALL DISCONNECT SWITCHES AND CIRCUIT BREAKERS SHALL BE LOCATED SO THAT THEY MAY BE OPERATED FROM A READILY ACCESSIBLE PLACE. THEY SHALL BE INSTALLED SUCH THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN ITS HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM WITH 36" CLEAR IN FRONT.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
S	SINGLE POLE TOGGLE SWITCH
S_3	THREE WAY TOGGLE SWITCH
S_4	FOUR WAY TOGGLE SWITCH
S_D	SINGLE POLE DIMMER SWITCH
S_{3D}	THREE WAY DIMMER SWITCH
S_F	FAN SWITCH
S_O	OCCUPANCY SENSOR SWITCH
S_{PO}	EMERGENCY POWER OFF SWITCH
S_{TT}	MANUAL MOTOR STARTER W/ THERMAL OVERLOAD PROTECTION
	PUSHBUTTON
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, SPLIT-WIRED FOR AUTOMATIC RECEPTACLE CONTROL WITH ONE (1) CONTROLLED RECEPTACLE AND ONE (1) UNCONTROLLED RECEPTACLE
	DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER
	OUTLET TO SUIT EQUIPMENT (CONTRACTOR TO VERIFY)
	FLOOR RECEPTACLE
	EXISTING PANELBOARD / LOAD CENTER
	CONDUIT AND WIRE
	CONDUIT AND WIRE, SWITCHED
1,LP	HOMERUN TO PANELBOARD, NUMBERS/LETTERS INDICATE CIRCUIT & PANELBOARD TERMINATION UNLESS OTHERWISE INDICATED
J	JUNCTION BOX
M	MOTOR
SDn	SAFETY DISCONNECT SWITCH
FSn	FUSIBLE SAFETY DISCONNECT SWITCH
▼	TELECOMMUNICATION OUTLET
▼	COMBINATION TELECOMMUNICATION/DATA OUTLET. PROVIDE METALLIC MOUNTING PLATE BRACKET OR BACK BOX SIZE AND DEPTH AS REQUIRED TO CONFORM TO MANUFACTURERS RECOMMENDED BEND RADIUS AND WARRANTY REQUIREMENTS. REFER TO OWNERS I.T. DRAWINGS AND SPECIFICATION FOR REQUIREMENTS AND PROVIDE CONDUIT FROM OUTLET LOCATION TO ACCESSIBLE LOCATION ABOVE CEILING CAVITY. TERMINATE BOTH ENDS OF CONDUIT WITH CONNECTOR AND INSULATING BUSHING. REFER TO CHART BELOW FOR CONDUIT CAPACITY:

CABLE:	5e	6	6A[1]	6A[2]	6A[3]
CONDUIT 3/4"	6	5	1	3	3
CONDUIT 1"	11	8	4	4	5
CONDUIT 1-1/4"	19	14	6	8	9
CONDUIT 1-1/2"	25	19	9	11	12

NOTES:
1. 1ST GENERATION (AVERAGE OUTSIDE DIA. .330)
2. 2ND GENERATION (AVERAGE OUTSIDE DIA. .300)
3. 3RD GENERATION "SHIELDED" (AVERAGE OUTSIDE DIA. .290)

Sp	CEILING SPEAKER
Tv	CABLE T.V. OUTLET WITH COAXIAL CABLE BACK TO CATV SERVICE LOCATION
Os PP	DUAL TECH LOW VOLTAGE OCCUPANCY SENSOR & POWER PACK POWER PACK RATED 20A, 120/77V
Os LV	DUAL TECH LINE VOLTAGE OCCUPANCY SENSOR 1500W 120/277V
TC	TIME CLOCK SWITCH
FACP	FIRE ALARM CONTROL PANEL WITH COMMAND STATION
FARA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
CC	FIRE ALARM COMMAND CENTER
S	FIRE ALARM SMOKE DETECTOR
SD	FIRE ALARM DUCT SMOKE DETECTOR
H	FIRE ALARM THERMAL DETECTOR
RT	FIRE ALARM REMOTE TEST SWITCH
F	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HORN/STROBE UNIT
	FIRE ALARM STROBE ONLY UNIT
TS	SPRINKLER TAMPER SWITCH, (FBO)
FS	SPRINKLER WATER FLOW SWITCH, (FBO)
PS	SPRINKLER PRESSURE SWITCH, (FBO)
	CALL-FOR-AID PULL STATION
	CALL-FOR-AID AUDIO/VISUAL UNIT
VFD	VARIABLE FREQUENCY DRIVE
	PUSHPLATE
	FIRE STOP SLEEVE, HILTI CP653 4"

LIGHTING SPECIFICATIONS

LIGHTING FIXTURE TYPE: A / A/EM

MANUFACTURER	DAYBRITE
CATALOG NO.	2FGXG30L840-2-RS-UNV
FIXTURE DESCRIPTION	2x2 TROFFER
VOLTAGE	120V
LAMP & DESIGNATION	LED 21.8W (4000K)
DRIVER	DIMMING 0-10V
MOUNTING	RECESSED
HOUSING	STEEL
LENS/LOUVER	DIFFUSED ROUND SMOOTH
REMARKS	EM = LIGHT FIXTURE WITH EMERGENCY BATTERY

LIGHTING FIXTURE TYPE: B / B/EM

MANUFACTURER	LIGHTOLIER
CATALOG NO.	P4RDL15840CLZ10
FIXTURE DESCRIPTION	4.5" ROUND DOWNLIGHT
VOLTAGE	120
LAMP & DESIGNATION	LED 13W (4000K)
DRIVER	DIMMING 0-10V
MOUNTING	RECESSED
HOUSING	STEEL
LENS/LOUVER	–
REMARKS	EM = LIGHT FIXTURE WITH EMERGENCY BATTERY

LIGHTING FIXTURE TYPE: B1

MANUFACTURER	LIGHTOLIER
CATALOG NO.	P4RLW15840CLZ10
FIXTURE DESCRIPTION	4.5" ROUND WALL WASHER
VOLTAGE	120V
LAMP & DESIGNATION	LED 13W (4000K)
DRIVER	DIMMING 0-10V
MOUNTING	RECESSED
HOUSING	STEEL
LENS/LOUVER	–
REMARKS	EM = LIGHT FIXTURE WITH EMERGENCY BATTERY

LIGHTING FIXTURE TYPE: C / C/EM

MANUFACTURER	LEDALITE
CATALOG NO.	TM06L940QNNNN2SQ40
FIXTURE DESCRIPTION	4" LINEAR SUSPENDED FIXTURE
VOLTAGE	120
LAMP & DESIGNATION	LED 71W (4000K)
DRIVER	DIMMING 0-10V
MOUNTING	SUSPENDED (LENGTH BY ARCHITECT)
HOUSING	ALUMINUM
LENS/LOUVER	LENS OPTION BY ARCHITECT
REMARKS	EM = LIGHT FIXTURE WITH EMERGENCY BATTERY

LIGHTING FIXTURE TYPE: D

MANUFACTURER	SSL-MINI COVELINE
CATALOG NO.	MC (1@4) 4K CRI80 120
FIXTURE DESCRIPTION	LED STRIP LIGHT
VOLTAGE	120V
LAMP & DESIGNATION	LED 5W/FT
DRIVER	DIMMING 0-10V
MOUNTING	ADJUSTABLE BRACKET
HOUSING	ALUMINUM
LENS/LOUVER	POLYCARBONATE
REMARKS	COORDINATE EXACT LENGTH WITH SOFFITS AND PROVIDE ALL REQUIRED CABLES AND MOUNTING HARDWARE

LIGHTING FIXTURE TYPE: F

MANUFACTURER	DALS LIGHTING INC
CATALOG NO.	4005 HP
FIXTURE DESCRIPTION	CABINET PUCK LIGHT
VOLTAGE	120/12V
LAMP & DESIGNATION	LED 2W (4000K)
DRIVER	DIMMING 0-10V
MOUNTING	RECESSED
HOUSING	WHITE
LENS/LOUVER	FROSTED
REMARKS	PROVIDE LOW VOLTAGE TRANSFORMER AS REQUIRED

LIGHTING FIXTURE TYPE: P1

MANUFACTURER	ACCORD LIGHTING
CATALOG NO.	202-40 SATIN BLUE
FIXTURE DESCRIPTION	19.69" CYLINDRICAL PENDANT
VOLTAGE	120V
LAMP & DESIGNATION	(3) 25W E26 LED EQUIVALENT (4000K)
DRIVER	–
MOUNTING	PENDANT
HOUSING	–
LENS/LOUVER	–
REMARKS	HANGING OPTION (CE OR CA) AND CABLE COLOR BY ARCHITECT

LIGHTING FIXTURE TYPE: P2

MANUFACTURER	ACCORD LIGHTING
CATALOG NO.	207-40 SATIN BLUE
FIXTURE DESCRIPTION	25.56" CYLINDRICAL PENDANT
VOLTAGE	120V
LAMP & DESIGNATION	LED 75W (4000K)
DRIVER	DIMMING (0-10V)
MOUNTING	PENDANT
HOUSING	–
LENS/LOUVER	–
REMARKS	–

LIGHTING FIXTURE TYPE: P3

MANUFACTURER	ACCORD LIGHTING
CATALOG NO.	217-40 SATIN BLUE
FIXTURE DESCRIPTION	35.43" CYLINDRICAL PENDANT
VOLTAGE	120V
LAMP & DESIGNATION	LED 75W (4000K)
DRIVER	DIMMING (0-10V)
MOUNTING	PENDANT
HOUSING	–
LENS/LOUVER	–
REMARKS	–

LIGHTING FIXTURE TYPE: P4

MANUFACTURER	ACCORD LIGHTING
CATALOG NO.	1352 SATIN BLUE
FIXTURE DESCRIPTION	35.43" CYLINDRICAL PENDANT
VOLTAGE	120V
LAMP & DESIGNATION	LED 13.5W (4000K)
DRIVER	DIMMING (0-10V)
MOUNTING	PENDANT
HOUSING	–
LENS/LOUVER	–
REMARKS	–

LIGHTING FIXTURE TYPE: S1

MANUFACTURER	ACCORD LIGHTING
CATALOG NO.	5012-40 SATIN BLUE
FIXTURE DESCRIPTION	23.62 CEILING CYLINDRICAL FIXTURE
VOLTAGE	120V
LAMP & DESIGNATION	LED 40W (4000K)
DRIVER	DIMMING (0-10V)
MOUNTING	SURFACE (CEILING)
HOUSING	–
LENS/LOUVER	–
REMARKS	–

LIGHTING FIXTURE TYPE: 12 / 12/EM

MANUFACTURER	PROGRESS LIGHTING
CATALOG NO.	P5643-31-30K
FIXTURE DESCRIPTION	6"x12" SQUARE CYLINDER WALL LANTERN
VOLTAGE	120V
LAMP & DESIGNATION	LED 29W (3000K)
DRIVER	DIMMING (ELV/REVERSE PHASE)
MOUNTING	WALL
HOUSING	ALUMINUM
LENS/LOUVER	–
REMARKS	EM = FIXTURE PROVIDE WITH EMERGENCY INVERTER

LIGHTING FIXTURE TYPE: 18 / 18/EM

MANUFACTURER	PROGRESS LIGHTING
CATALOG NO.	P5644-31-30K
FIXTURE DESCRIPTION	6"x18" SQUARE CYLINDER WALL LANTERN
VOLTAGE	120V
LAMP & DESIGNATION	(2) LED PAR38 25W (250W EQUIVALENT)
DRIVER	–
MOUNTING	WALL
HOUSING	ALUMINUM
LENS/LOUVER	–
REMARKS	EM = FIXTURE PROVIDE WITH EMERGENCY INVERTER

LIGHTING FIXTURE TYPE: X / X2

MANUFACTURER	CHLORIDE-SIGNIFY
CATALOG NO.	ER45VXL (1&2) RM
FIXTURE DESCRIPTION	EMERGENCY EXIT SIGN
VOLTAGE	120V
LAMP & DESIGNATION	LED
DRIVER	–
MOUNTING	CEILING
HOUSING	SATIN ALUMINUM
LENS/LOUVER	RED LETTERS
REMARKS	PROVIDE WITH SEALED NICKEL CADMIUM BATTERY

ABBREVIATIONS

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	MOUNTED IN CEILING
CKT	CIRCUIT
DW	DISHWASHER
DWG	DRAWING
ELEC	ELECTRICAL
E/EM	EMERGENCY POWER CIRCUIT
ER	EXISTING TO REMAIN
FL	FLOOR
G	GROUND FAULT CIRCUIT INTERRUPTER
JB	JUNCTION BOX
LTG	LIGHTING
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTDOOR
P	POLE
ø	PHASE
R	REFRIGERATOR
RE	RELOCATED EXISTING
RR	TO BE REMOVED AND RELOCATED
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHERPROOF

LYMES' SENIOR CENTER RENOVATION

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JOB #:	790
DRAWN BY:	
CHECKED BY:	
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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STAMP: CM REFERENCE - NOT FOR CONSTRUCTION

DRAWING NAME: ELECTRICAL NOTES, LEGEND & LIGHTING SPECIFICATIONS

SCALE: As indicated

SHEET: E2.0

G:\ES Projects\2022 Projects\Team TEM\22092 Lyme Senior Center\Contract Documents\22092_E2.0.dwg Plotted by cmassaro on Jul 18, 2023 - 4:58pm

PP1 (EXISTING)

RATING: 208Y/120V, 3ø, 4W
MAIN BUS: ☐CU ☐AL 100A MAIN BUS
MAIN DEVICE: M.L.O.
INTERRUPTING RATING: EXISTING AIC

LOCATION: EXISTING MECHANICAL ROOM
MOUNTING: ☐FLUSH ☒SURFACE
TRIM: ☒SINGLE DOOR ☐DOOR-IN-DOOR

CKT NO	BREAKER AMP	BREAKER POLES	DESCRIPTION	WIRE & CONDUIT	KVA	A	B	C	KVA	WIRE & CONDUIT	DESCRIPTION	BREAKER POLES	BREAKER AMP	CKT NO
1	30	2	SPARE	–	0.0	•			0.0	EXISTING	STEAMER	3	30	2
3	–	–	–	–	0.0		•		0.0	–	–	–	–	4
5	20	2	WELL PUMP	EXISTING	0.0			•	0.0	–	–	–	–	6
7	–	–	–	–	0.0	•			1.9	3/4"C, 2#12, #12G	RECEPTACLE – FLEX OFFICE & DIR	1	20	8
9	20	1	RCPT – PRINTER (DIR. OFFICE 11)	3/4"C, 2#12, #12G	0.8		•		0.8	3/4"C, 2#12, #12G	RECEPTACLE – PRINTER	1	20	10
11	20	1	RECEPTACLE – I.T. EQUIPMENT	3/4"C, 2#12, #12G	0.6			•	0.6	3/4"C, 2#12, #12G	MISC. MECHANICAL EQUIPMENT	1	20	12
13	20	1	RECEPTACLE – I.T. EQUIPMENT	3/4"C, 2#12, #12G	0.6	•			0.6	3/4"C, 2#12, #12G	EF-1,2,3,4,5	2	20	14
15	20	1	WATER COOLER/BOTTLE FILLER	3/4"C, 2#12, #12G	0.0		•		0.6	–	–	–	–	16
17	20	1	RECEPTACLE NURSE FLEX OFFICE 2	3/4"C, 2#12, #12G	1.8			•	1.3	3/4"C, 2#12, #12G	HP-2A,3,4,5,6	2	20	18
19	20	2	ECUH-1	3/4"C, 2#12, #12G	3.0	•			1.3	–	–	–	–	20
21	–	–	–	–	3.0		•		1.2	3/4"C, 2#12, #12G	BS-1,2; HP-1A,1B,2B,7	2	20	22
23	20	1	SPARE	–	0.0			•	1.2	–	–	–	–	24
				TOTALS PER PHASE		5.5	6.4	3.7						
				GRAND TOTAL	15.6									

PP2 (RELOCATED)

RATING: 208Y/120V, 3ø, 4W
MAIN BUS: ☐CU ☐AL 100A MAIN BUS
MAIN DEVICE: M.L.O.
INTERRUPTING RATING: EXISTING AIC

LOCATION: CL 235
MOUNTING: ☒FLUSH ☐SURFACE
TRIM: ☒SINGLE DOOR ☐DOOR-IN-DOOR

CKT NO	BREAKER AMP	BREAKER POLES	DESCRIPTION	WIRE & CONDUIT	KVA	A	B	C	KVA	WIRE & CONDUIT	DESCRIPTION	BREAKER POLES	BREAKER AMP	CKT NO
1	20	1	LIGHTING (OFFICE, KIT & TOILET)	3/4"C, 2#12, #12G	0.9	•			0.9	3/4"C, 2#12, #12G	WWP-1	1	20	2
3	20	1	LIGHTING (CORRIDORS/GREETER)	3/4"C, 2#12, #12G	1.3		•		0.8	3/4"C, 2#12, #12G	LIGHTING (BUILDING EXTERIOR)	1	20	4
5	20	1	LIGHTING (CRAFT, SVS QUIET RM)	3/4"C, 2#12, #12G	1.2			•	1.5	3/4"C, 2#12, #12G	LIGHTING (LARGE MULTIPURPOSE)	1	20	6
7	20	1	LIGHTING (ACTIVITY RM & TOILETS)	3/4"C, 2#12, #12G	1.2	•			2.0	3/4"C, 2#12, #12G	HAND DRYER (TOILET)	1	20	8
9	20	1	LIGHTING (MED MULTIPURPOSE)	3/4"C, 2#12, #12G	0.8		•		2.0	3/4"C, 2#12, #12G	HAND DRYER (TOILET)	1	20	10
11	20	1	FACP	3/4"C, 2#12, #12G	1.0			•	1.1	3/4"C, 2#12, #12G	RECEPTACLE (QUIET RM)	1	20	12
13	20	1	RECEPTACLE – COUNTER (GREETER)	3/4"C, 2#12, #12G	1.0	•			1.5	3/4"C, 2#12, #12G	RECEPTACLE (SERVICE RM)	1	20	14
15	20	1	RECEPTACLE – COUNTER (GREETER)	3/4"C, 2#12, #12G	1.0		•		0.4	3/4"C, 2#12, #12G	RECEPTACLE (SERVICE RM)	1	20	16
17	20	1	RECEPTACLE (CRAFT RM)	3/4"C, 2#12, #12G	1.3			•	1.3	3/4"C, 2#12, #12G	RECEPTACLE (SOUTH CORRIDOR)	1	20	18
19	20	1	RECEPTACLE (ACTIVITY RM)	3/4"C, 2#12, #12G	1.4	•			1.8	3/4"C, 2#12, #12G	RECEPTACLE (LARGE MULTI RM)	1	20	20
21	20	3	FOLDING DOOR	3/4"C, 3#12, #12G	1.0		•		1.4	3/4"C, 2#12, #12G	RCPT (EXTERIOR/MOTORIZED SCREEN)	–	20	22
23	–	–	–	–	1.0			•	1.4	3/4"C, 2#12, #12G	RECEPTACLE (MED MULTI RM)	1	20	24
25	–	–	–	–	1.0	•			1.4	3/4"C, 2#12, #12G	RECEPTACLE (KITCHEN EXTENSION)	1	20	26
27	20	1	AIR COMPRESSOR (FP)	3/4"C, 2#12, #12G	1.2		•		2.0	3/4"C, 2#12, #12G	HAND DRYER (TOILET)	1	20	28
29	20	1	FLR RECEPTACLE (ACTIVITY RM)	3/4"C, 2#12, #12G	0.0			•	0.0	–	SPARE	1	20	30
31	20	1	SPARE	3/4"C, 2#12, #12G	0.0	•			0.0	–	SPARE	1	20	32
				TOTALS PER PHASE		13.1	11.9	9.8						
				GRAND TOTAL	34.8									

P3 (NEW)

RATING: 208Y/120V, 3ø, 4W
MAIN BUS: ☒CU ☐AL 200A MAIN BUS
MAIN DEVICE: 100A M.C.B.
INTERRUPTING RATING: 10K AIC

LOCATION: CL 235
MOUNTING: ☒FLUSH ☐SURFACE
TRIM: ☒SINGLE DOOR ☐DOOR-IN-DOOR

CKT NO	BREAKER AMP	BREAKER POLES	DESCRIPTION	WIRE & CONDUIT	KVA	A	B	C	KVA	WIRE & CONDUIT	DESCRIPTION	BREAKER POLES	BREAKER AMP	CKT NO
1	20	1	SPARE	–	0.0	•			0.0	–	SPARE	1	20	2
3	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	4
5	20	1	SPARE	–	0.0			•	0.0	–	SPARE	1	20	6
7	20	1	SPARE	–	0.0	•			0.0	–	SPARE	1	20	8
9	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	10
11	20	1	SPARE	–	0.0			•	0.0	–	SPARE	1	20	12
13	20	1	SPARE	–	0.0	•			0.0	–	SPARE	1	20	14
15	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	16
17	20	1	SPARE	–	0.0			•	0.0	–	SPARE	1	20	18
19	20	1	SPARE	–	0.0	•			0.0	–	SPARE	1	20	20
21	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	22
23	20	1	SPARE	–	0.0			•	0.0	–	SPARE	1	20	24
25	20	1	SPARE	–	0.0	•			0.0	–	SPARE	1	20	26
27	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	28
29	20	1	SPARE	–	0.0			•	0.0	–	SPARE	1	20	30
31	20	1	SPARE	–	0.0	•			0.0	–	SPARE	1	20	32
33	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	34
35	20	1	SPARE	–	0.0			•	0.0	–	SPARE	1	20	36
37	20	1	SPARE	–	0.0	•			0.0	–	SPARE	1	20	38
39	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	40
41	20	1	SPARE	–	0.0			•	0.0	–	SPARE	1	20	42
				TOTALS PER PHASE		0.0	0.0	0.0						
				GRAND TOTAL	0.0									

MDP (EXISTING)

RATING: 208Y/120V, 3ø, 4W
MAIN BUS: ☐CU ☐AL 400A MAIN BUS
MAIN DEVICE: 400A M.C.B.
INTERRUPTING RATING: EXISTING AIC

LOCATION: EXISTING MECHANICAL ROOM
MOUNTING: ☐FLUSH ☒SURFACE
TRIM: ☒SINGLE DOOR ☐DOOR-IN-DOOR

CKT NO	BREAKER AMP	BREAKER POLES	DESCRIPTION	WIRE & CONDUIT	KVA	A	B	C	KVA	WIRE & CONDUIT	DESCRIPTION	BREAKER POLES	BREAKER AMP	CKT NO
1	100	3	EXISTING PANEL "PP2"	EXISTING	13.1	•			0.0	–	SPARE	1	20	2
3	–	–	–	–	11.9		•		0.0	–	SPARE	1	20	4
5	–	–	–	–	9.8			•	4.1	EXISTING	EXISTING WATER PUMP	2	50	6
7	20 / 1		HAND DRYER/HAND DRYER	EXISTING	2.0	•			4.1	–	–	–	–	8
9	20	2	P1 & P2	3/4"C, 2#12, #12G	0.5		•		5.5	EXISTING	EXISTING PANEL "PP1"	3	100	10
11	–	–	–	–	0.5			•	6.4	–	–	–	–	12
13	60	2	SPARE	–	0.0	•			3.7	–	–	–	–	14
15	–	–	–	–	0.0		•		0.0	–	SPARE	1	20	16
17	20 / 1		SPARE	–	0.0			•	0.0	–	SPARE	1	20	18
19	20 / 1		SPARE	–	0.0	•			0.0	–	SPARE	1	20	20
21	20	1	SPARE	–	0.0		•		0.0	–	SPARE	1	20	22
23	70	3	CU-1 MOD #1	1-1/4"C, 3#4, #8G	7.4			•	0.0	–	SPARE	1	20	24
25	–	–	–	–	7.4	•			0.0	–	SPARE	3	40	26
27	–	–	–	–	7.4		•		0.0	–	–	–	–	28
29	70	3	CU-1 MOD #2	1-1/4"C, 3#4, #8G	7.0			•	0.0	–	–	–	–	30
31	–	–	–	–	7.0	•			0.0	–	SPARE	3	40	32
33	–	–	–	–	7.0		•		0.0	–	–	–	–	34
35	20	1	SPARE	–	0.0			•	0.0	–	–	–	–	36
37	70	3	FPP PANEL	1-1/4"C, 4#4, #8G	6.6	•			0.0	1-1/4"C, 4#3, #8G	NEW PANEL "P3"	3	100	38
39	–	–	–	–	5.9		•		0.0	–	–	–	–	40
41	–	–	–	–	5.4			•	0.0	–	–	–	–	42
				TOTALS PER PHASE		43.9	38.2	40.6						
				GRAND TOTAL	122.7									

FPP FIRE PUMP PANEL (NEW)

RATING: 208Y/120V, 3ø, 4W
MAIN BUS: ☒CU ☐AL 100A MAIN BUS
MAIN DEVICE: 70A M.C.B.
INTERRUPTING RATING: 10K AIC

LOCATION: FIRE PUMP BUILDING
MOUNTING: ☐FLUSH ☒SURFACE
TRIM: ☒SINGLE DOOR ☐DOOR-IN-DOOR

CKT NO	BREAKER AMP	BREAKER POLES	DESCRIPTION	WIRE & CONDUIT	KVA	A	B	C	KVA	WIRE & CONDUIT	DESCRIPTION	BREAKER POLES	BREAKER AMP	CKT NO
1	20	1	FIRE PUMP CONTROL PANEL	3/4"C, 2#12, #12G	0.6	•			0.6	3/4"C, 2#12, #12G	JOCKEY PUMP CONTROL PANEL	1	20	2
3	20	3	JOCKEY PUMP	3/4"C, 3#12, #12G	0.4		•		0.5	3/4"C, 2#12, #12G	RCPT & LTG – FIRE PUMP BLDG	1	20	4
5	–	–	–	–	0.4			•	5.0	3/4"C, 3#6, #10G	ELEC UNIT HEATER	3	60	6
7	–	–	–	–	0.4	•			5.0	–	–	–	–	8
9	20	1	SPARE	–	0.0		•		5.0	–	–	–	–	10
11	20	1	SPARE	–	0.0			•	0.0	–	SPACE	1	–	12
13	20	1	SPARE	–	0.0	•			0.0	–	SPACE	1	–	14
15	20	1	SPARE	–	0.0		•		0.0	–	SPACE	1	–	16
17	20	1	SPARE	–	0.0			•	0.0	–	SPACE	1	–	18
19	20	1	SPARE	–	0.0	•			0.0	–	SPACE	1	–	20
21	20	1	SPARE	–	0.0		•		0.0	–	SPACE	1	–	22
23	20	1	SPARE	–	0.0			•	0.0	–	SPACE	1	–	24
25	20	1	SPARE	–	0.0	•			0.0	–	SPACE	1	–	26
27	20	1	SPARE	–	0.0		•		0.0	–	SPACE	1	–	28
29	20	1	SPARE	–	0.0			•	0.0	–	SPACE	1	–	30
				TOTALS PER PHASE		6.6	5.9	5.4						
				GRAND TOTAL	17.9									

HVAC FEEDER SCHEDULE

SYMBOL	V – PH	AMP	DISC. SW.	STARTER NEMA SIZE	HP (KW)	NOTES
AIR COMPRESSOR	120V–1ø	13.8	STT SWITCH	–	3/4	
BS–1,2	208V–1ø	0.6	STT SWITCH 2–POLE	–	–	
CU–1 (MOD #1)	208V–3ø	61.9	100A, 3P, 240V W.P. DISC. SW	–	–	
CU–1 (MOD #2)	208V–3ø	58.3	100A, 3P, 240V W.P. DISC. SW	–	–	
ECUH–1	208V–1ø	7.2	BY MECHANICAL	–		
EF–1,2,3,4,5,6	208V–1ø	1.1	BY MECHANICAL	0	–	
ELEC. UNIT HEATER F.P. BLDG	208V–3ø	41.7	60A, 3P, 240V DISC. SW	–	(15)	
HP–1A,1B,5,7	208V–1ø	2.5	STT SWITCH 2–POLE	–	–	
HP–2A,2B,3,4	208V–1ø	2.8	STT SWITCH 2–POLE	–	–	
HP–6	208V–1ø	1.8	STT SWITCH 2–POLE	–	–	
P–1,2	208V–1ø	2.4	BY MECHANICAL	–	1/6	
RP1	120V–1ø	1.0	STT SWITCH	–	1/25	
WWP1	120V–1ø	7.2	STT SWITCH	–	1/3	

NOTES:
1. –
2. –

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JOB #: 790
DRAWN BY:
CHECKED BY:
ISSUE DATE: JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME: ELECTRICAL SCHEDULES

SCALE: As indicated

SHEET: E2.1

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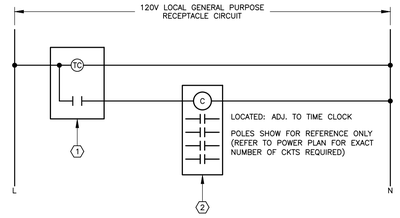
EQUIPMENT SCHEDULE

TAG	MODEL NO.	DESCRIPTION	NOTES
①	TORK DZS200A OR EQUIVALENT INTERMATIC OR SQUARE D	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	1, 2
②	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR. CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	3

NOTES:
1. TIMECLOCK SHALL BE PROGRAMMED TO TURN RECEPTACLE ON/OFF PER USERS REQUIREMENTS/SCHEDULE.
2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
3. SEE CONTACTOR DIAGRAM FOR VOLTAGE AND NUMBER OF POLES.

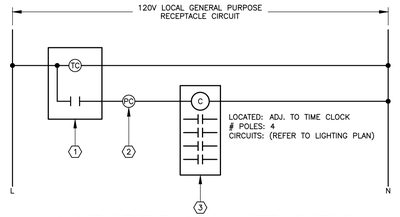


CONTACTOR DIAGRAM (CONTROLLED RECEPTACLES)
N.T.S.

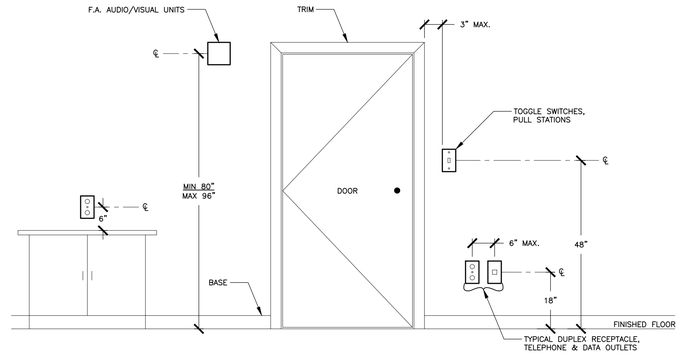
EQUIPMENT SCHEDULE

TAG	MODEL NO.	DESCRIPTION	NOTES
①	TORK DZS200A OR EQUIVALENT INTERMATIC OR SQUARE D	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	1, 2
②	TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D	PHOTOCELL 1800W, 15A, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10fc W/ADJUSTMENT. TIME DELAY 15 SEC. MINIMUM	3
③	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR. CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	4

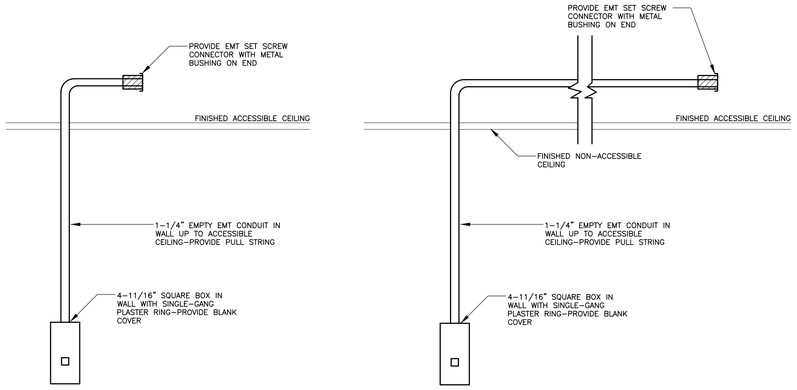
NOTES:
1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF AT 10 P.M. DAILY AS PER TOWN ZONING REQUIREMENTS.
2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
3. PHOTOCELL TO BE LOCATED ON NORTHERN EXPOSURE.
4. SEE CONTACTOR DIAGRAM FOR VOLTAGE AND NUMBER OF POLES.



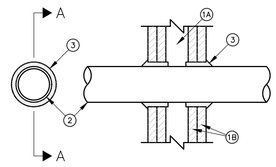
CONTACTOR DIAGRAM (SITE LIGHTING)
N.T.S.



DEVICE MOUNTING DETAIL
N.T.S.



TYPICAL RACEWAY INSTALLATION DETAIL DATA, VOICE, OR VIDEO OUTLET
N.T.S.



UL RATED FIRE PENETRATION DETAIL
N.T.S.

1. WALL ASSEMBLY – THE 1,2,3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.

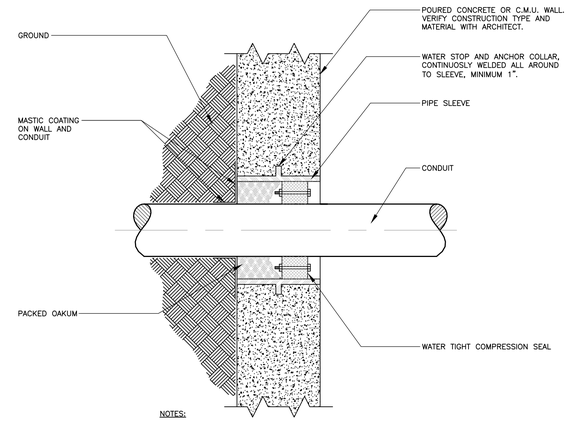
B. WALLBOARD, GYPSUM*-NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IN 13-1/2 IN.

2. PIPE OR CONDUIT-NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3. FILL, VOID OR CAVITY MATERIAL*-CAULK-CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

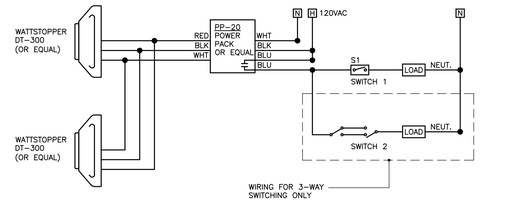
* WHEN COPPER PIPE IS USED, T RATING IS O H.
#0 TO 1-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED AND ONLY WHEN THE MIN THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1HR RATED WALLS AND 1-1/4 IN. FOR 2 HR RATED WALLS.

MAX PIPE OR CONDUIT DIAMETER (IN.)	ANNULAR SPACE (IN.)	F RATING HR	T RATING HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0



NOTES:
1. FOR EXTERIOR, BELOW GRADE WALL APPLICATIONS.

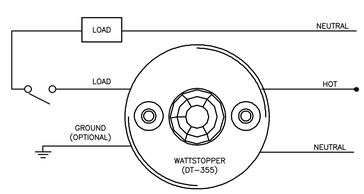
TYPICAL EXTERIOR BELOW GRADE CONDUIT SLEEVE INSTALLATION DETAIL
N.T.S.



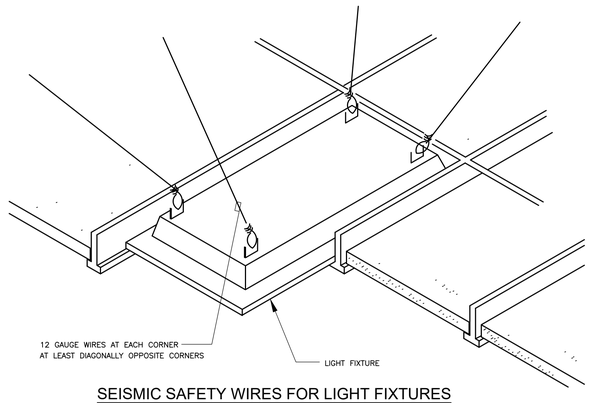
TYPICAL LOW VOLTAGE SENSOR LIGHTING CONTROL SCHEMATIC
SCALE: N.T.S.

NOTE:

EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL. CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN. POWER PACK SHOWN AS PP



TYPICAL LINE VOLTAGE OCCUPANCY SENSOR WIRING DETAIL
N.T.S.



SEISMIC SAFETY WIRES FOR LIGHT FIXTURES
N.T.S.

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ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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SHEET: E2.2

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FIRE ALARM SPECIFICATIONS

FIRE ALARM SYSTEM

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

A. THE ENTIRE SYSTEM SHALL BE INSTALLED WITH AESTHETICS IN MIND. ALL CONTROL PANELS AND REMOTE ANNUNCIATORS INSTALLED IN PUBLIC SPACES SHALL BE SEMI–FLUSH MOUNTED WITH NO EXPOSED CONDUIT OR CABLE TRAYS.

B. ALL NEW FIRE ALARM DEVICES SHALL MATCH THE EXISTING BUILDING STANDARD MANUFACTURER. THE FIRE ALARM SYSTEM'S SOFTWARE AND DISPLAY SHALL BE UPGRADED AS REQUIRED WITH NEW ROOM NAMES AND FLOOR PLAN LAYOUT. THE FIRE ALARM SYSTEM SHALL BE TESTED UPON COMPLETION OF ALL NEW AND/OR RELOCATED FIRE ALARM DEVICES ACCORDING TO [NFPA72 14.4.1.2.1.4] WHEN CHANGES ARE MADE TO SITE SPECIFIC SOFTWARE, THE FOLLOWING SHALL APPLY:

(1) ALL FUNCTIONS KNOWN TO BE AFFECTED BY THE CHANGE, OR IDENTIFIED BY A MEANS THAT INDICATES CHANGES, SHALL BE 100 PERCENT TESTED.
(2) IN ADDITION, 10 PERCENT OF INITIATING DEVICES THAT ARE NOT DIRECTLY AFFECTED BY THE CHANGE, UP TO A MAXIMUM OF 50 DEVICES, ALSO SHALL BE TESTED AND CORRECT SYSTEM OPERATION SHALL BE VERIFIED.
(3) A REVISED RECORD OF COMPLETION IN ACCORDANCE WITH 10.18.2.1 SHALL BE PREPARED TO REFLECT THESE CHANGES.

1.02 SCOPE

A. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND SERVICES TO FURNISH AND INSTALL A NEW FIRE ALARM SYSTEM OF THE ADDRESSABLE, NON–CODED TYPE. IT SHALL BE COMPLETE WITH ALL NECESSARY HARDWARE AND SOFTWARE SPECIFICALLY TAILORED FOR THIS INSTALLATION. IT SHALL BE POSSIBLE TO PERMANENTLY MODIFY THE SOFTWARE ON SITE BY USING A PLUG–IN PROGRAMMER.

1.04 PRODUCTS

A. ALL PRODUCTS USED SHALL BE OF A SINGLE MANUFACTURER. SUBMISSION OF NOTIFICATION APPLIANCES, AUXILIARY RELAYS, OR DOCUMENTATION FROM OTHER THAN A SINGLE MANUFACTURER SHALL NOT BE ACCEPTABLE AND WILL BE GROUNDS FOR IMMEDIATE DISAPPROVAL WITHOUT COMMENT.

2.01 FIRE ALARM SYSTEM SEQUENCE OF OPERATION

A. THE SYSTEM SHALL IDENTIFY ANY OFF NORMAL CONDITION AND LOG EACH CONDITION INTO THE SYSTEM DATABASE AS AN EVENT.
54. THE SYSTEM SHALL DISPLAY THE FIRST EVENT OF THE HIGHEST PRIORITY BY TYPE. (ALARM, SUPERVISORY, TROUBLE, AND MONITOR)
55. THE SYSTEM SHALL HAVE A LABELED COLOR CODED INDICATOR FOR EACH TYPE OF EVENT.
56. FOR EACH EVENT, THE DISPLAY SHALL INCLUDE THE CURRENT TIME, THE TOTAL NUMBER OF EVENTS, THE TYPE OF EVENT, THE TIME THE EVENT OCCURRED AND UP TO A 40 CHARACTER CUSTOM USER DESCRIPTION.
57. NEW ALARM, SUPERVISORY, OR TROUBLE EVENTS SHALL SOUND A SILENCING AUDIBLE SIGNAL AT THE CONTROL PANEL.

B. OPERATION OF ANY ALARM INITIATING DEVICE SHALL AUTOMATICALLY:

1. UPDATE THE CONTROL/DISPLAY AS DESCRIBED ABOVE (B.1.)
2. SOUND ALL AUDIBLE APPLIANCES (IN A PRE–RECORDED VOICE MESSAGE IF APPLICABLE).
3. ACTIVATE ALL STROBE APPLIANCES THROUGHOUT THE FACILITY. ALL STROBE APPLIANCES THROUGHOUT THE FACILITY SHALL BE SYNCHRONIZED WHERE ANY TWO ARE IN A COMMON VIEW. VISUAL DEVICES SHALL BE NON–SILENCED UNLESS THE SYSTEM IS SUCCESSFULLY RESET.
4. OPERATE CONTROL RELAY CONTACTS TO SHUTDOWN ALL HVAC UNITS SERVING THE FLOOR OF ALARM INITIATION AND CLOSE ALL SMOKE DAMPERS.
5. OPERATE CONTROL RELAY CONTACTS TO RETURN ALL ELEVATORS THAT SERVE THE FLOOR OF ALARM INITIATION TO THE GROUND FLOOR. IF THE ALARM ORIGINATES FROM THE GROUND FLOOR, OPERATE CONTROL CIRCUITS CONTACTS TO RETURN ALL ELEVATORS TO THE FLOOR ABOVE OR TO A LEVEL AS DIRECTED BY THE LOCAL FIRE DEPARTMENT.
6. OPERATE CONTROL RELAY CONTACTS TO RELEASE ALL MAGNETICALLY HELD SMOKE DOORS THROUGHOUT THE BUILDING.
7. VISUALLY ANNUNCIATE THE INDIVIDUAL POINT OF ALARM ON ALL REMOTE ANNUNCIATOR PANELS. THE VISUAL INDICATION SHALL REMAIN ON UNTIL THE ALARM CONDITION IS RESET TO NORMAL.
8. TRANSMIT AN ALARM CONDITION, VIA THE INTEGRAL CENTRAL STATION COMMUNICATOR, TO CENTRAL STATION/LOCAL FIRE DEPARTMENT (AS REQUIRED BY THE AHJ).

C. ELEVATOR SMOKE AND HEAT DETECTOR SEQUENCES SHALL COMPLY WITH THE ANSI A17.1 REQUIREMENTS FOR MAIN/ALTERNATE FLOOR RECALLS, AND SHUNT TRIP ACTIVATIONS.

D. ACTIVATION OF A SPRINKLER SUPERVISORY INITIATING DEVICE SHALL: (IF APPLICABLE)

1. UPDATE THE CONTROL/DISPLAY AS DESCRIBED ABOVE (B.1.)
2. TRANSMIT A SUPERVISORY CONDITION, VIA THE INTEGRAL CENTRAL STATION COMMUNICATOR, TO CENTRAL STATION/LOCAL FIRE DEPARTMENT (AS REQUIRED BY THE AHJ).
3. VISUALLY ANNUNCIATE THE INDIVIDUAL POINT OF ALARM ON ALL REMOTE ANNUNCIATOR PANELS. THE VISUAL INDICATION SHALL REMAIN ON UNTIL THE ALARM CONDITION IS RESET TO NORMAL.

E. THE ENTIRE FIRE ALARM SYSTEM WIRING SHALL BE ELECTRICALLY SUPERVISED TO AUTOMATICALLY DETECT AND REPORT TROUBLE CONDITIONS TO THE FIRE ALARM CONTROL PANEL. ANY OPENS, GROUNDS OR DISARRANGEMENT OF SYSTEM WIRING AND SHORTS ACROSS ALARM SIGNALING WIRING SHALL AUTOMATICALLY:

1. UPDATE THE CONTROL/DISPLAY AS DESCRIBED ABOVE (B.1.)
2. TRANSMIT A TROUBLE CONDITION, VIA THE INTEGRAL CENTRAL STATION COMMUNICATOR, TO CENTRAL STATION/LOCAL FIRE DEPARTMENT (AS REQUIRED BY THE AHJ).
3. VISUALLY AND AUDIBLY ANNUNCIATE A GENERAL TROUBLE CONDITION, ON THE REMOTE ANNUNCIATOR PANELS. THE VISUAL INDICATION SHALL REMAIN ON UNTIL THE TROUBLE CONDITION IS REPAIRED.

2.02 COMPONENTS

A. INTELLIGENT DEVICES–GENERAL

EACH REMOTE DEVICE SHALL HAVE A MICROPROCESSOR WITH NON–VOLATILE MEMORY TO SUPPORT ITS FUNCTIONALITY AND SERVICEABILITY. EACH DEVICE SHALL BE CAPABLE OF ELECTRONIC ADDRESSING, EITHER AUTOMATICALLY OR APPLICATION PROGRAMMED ASSIGNED, TO SUPPORT PHYSICAL/ELECTRICAL MAPPING AND SUPERVISION BY LOCATION. SETTING A DEVICE'S ADDRESS BY PHYSICAL MEANS SHALL NOT BE NECESSARY.

B. INTELLIGENT DETECTORS–GENERAL

THE SYSTEM INTELLIGENT DETECTORS SHALL BE CAPABLE OF FULL DIGITAL COMMUNICATIONS USING BOTH BROADCAST AND POLLING PROTOCOL. EACH DETECTOR SHALL HAVE AN INTEGRAL MICROPROCESSOR CAPABLE OF MAKING ALARM DECISIONS BASED ON FIRE PARAMETER INFORMATION STORED IN THE DETECTOR HEAD. EACH SMOKE DETECTOR SHALL BE CAPABLE OF TRANSMITTING PRE–ALARM AND ALARM SIGNALS IN ADDITION TO THE NORMAL, TROUBLE AND NEED CLEANING INFORMATION. EACH DETECTOR MICROPROCESSOR SHALL CONTINUALLY MONITOR THE ENVIRONMENTAL IMPACT OF TEMPERATURE, HUMIDITY, OTHER CONTAMINATES AS WELL AS DETECTOR AGING.

C. MISCELLANEOUS DEVICES: FIXED TEMPERATURE/RATE OF RISE HEAT DETECTOR, PHOTOELECTRIC SMOKE DETECTOR, STANDARD DETECTOR MOUNTING BASES, DUCT DETECTOR HOUSING, MONITOR MODULE, WATER FLOW/TAMPER MODULE, MANUAL PULL STATION.

M. NOTIFICATION APPLIANCES–GENERAL

ALL APPLIANCES SHALL BE UL LISTED FOR FIRE PROTECTIVE SERVICE.
ALL STROBE APPLIANCES OR COMBINATION APPLIANCES WITH STROBES SHALL BE CAPABLE OF PROVIDING THE "EQUIVALENT FACILITATION" WHICH IS ALLOWED UNDER THE AMERICANS WITH DISABILITIES ACT ACCESSIBLY GUIDELINES (ADA(AG)), AND SHALL BE UL 1971, AND ULC S526 LISTED.

Q. STROBES: STROBES SHALL PROVIDE SYNCHRONIZED FLASH OUTPUTS. STROBE OUTPUT SHALL BE FIELD SELECTABLE AS INDICATED ON THE DRAWINGS IN ONE OF THE FOLLOWING INTENSITY LEVELS; 15CD, 30CD, 75CD OR 110CD.

R. SPEAKERS AND SPEAKER STROBES: SPEAKERS SHALL PROVIDE POWER TAPS AT 1/4W, 1/2W, 1W, AND 2W. SPEAKERS SHALL PROVIDE UL CONFIRMED 90 DBA SOUND OUTPUT AT 2W. SPEAKERS WITH A STROBE, THE OUTPUT SHALL BE FIELD SELECTABLE AS INDICATED ON THE DRAWINGS IN ONE OF THE FOLLOWING INTENSITY LEVELS; 15CD, 30CD, 75CD OR 110CD.

U. MISCELLANEOUS DEVICES: ELECTROMAGNETIC DOOR HOLDERS.

PART III – EXECUTION

3.01 INSTALLATION

A. THE ENTIRE SYSTEM SHALL BE INSTALLED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH APPROVED MANUFACTURER'S WIRING DIAGRAM. THE CONTRACTOR SHALL FURNISH ALL CONDUIT, WIRING, OUTLET BOXES, JUNCTION BOXES, CABINETS AND SIMILAR DEVICES NECESSARY FOR THE COMPLETE INSTALLATION. ALL WIRING SHALL BE OF THE TYPE RECOMMENDED BY THE MANUFACTURER, APPROVED BY THE LOCAL FIRE DEPARTMENT AND SPECIFIED WITH IN.

B. END OF LINE RESISTORS SHALL BE FURNISHED AS REQUIRED FOR MOUNTING AS DIRECTED BY THE MANUFACTURER. DEVICES CONTAINING END–OF–LINE RESISTORS SHALL BE APPROPRIATELY LABELED. DEVICES SHOULD BE LABELED SO REMOVAL OF THE DEVICE IS NOT REQUIRED TO IDENTIFY THE EOL DEVICE.

C. ALL MANUAL PULL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR, AS MEASURED TO THE HANDLE.

D. ALL AUDIO/VISUAL DEVICES SHALL BE MOUNTED 80 INCHES ABOVE THE FINISHED FLOOR, AS MEASURED ON CENTER. DEVICES SHALL BE MOUNTED NO LESS THAN 6 INCHES FROM THE CEILING. ALL AUDIOVISUAL DEVICES SHALL HAVE LEXAN COVERS IN ALL AREAS.

E. NO AREA SMOKE DETECTORS SHALL BE MOUNTED WITHIN 36 INCHES OF ANY HVAC SUPPLY, RETURN AIR REGISTER OR LIGHTING FIXTURE.

F. NO AREA SMOKE OR HEAT DETECTOR SHALL BE MOUNTED WITHIN 12 INCHES OF ANY WALL.

G. ALL MECHANICAL ROOMS, BOILER ROOMS, GYMNASIUMS, WIRING CLOSETS, CUSTODIAN ROOMS, ATTIC SPACES, ETC. OR AREAS WITH NO HUNG CEILINGS SHALL BE PIPED WITH 3\4" CONDUIT. ALL DEVICE PLENUM RATED WIRING SHALL BE MECHANICALLY PROTECTED WITH CONDUIT.

H. ALL ADDRESSABLE MODULES SHALL BE MOUNTED WITHIN 36 INCHES OF THE MONITORED OR CONTROLLED POINT OF TERMINATION. THIS SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, FAN SHUTDOWN, ELEVATOR RECALL, SHUNT TRIP, SPRINKLER STATUS POINTS, OR DOOR RELEASE. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.

I. ALL JUNCTION BOX COVERS SHALL BE PAINTED FEDERAL SAFETY RED AND LABELED FIRE ALARM SYSTEM ONLY IN BLACK LETTERS.

J. FIRE ALARM SYSTEM WIRING SHALL NOT CO–MINGLE WITH ANY OTHER SYSTEM WIRING IN THE FACILITY.

K. AUXILIARY RELAYS SHALL BE APPROPRIATELY LABELED TO INDICATE "FIRE ALARM SYSTEM" AND THEIR SPECIFIC FUNCTION (I.E. FAN S–1 SHUTDOWN).

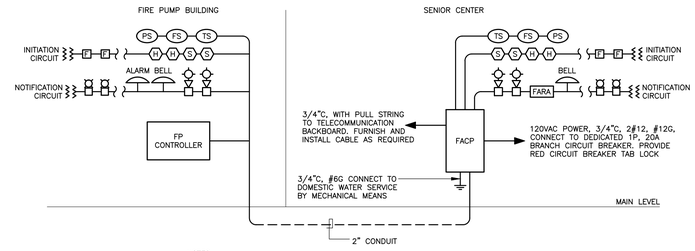
L. ALL FIRE ALARM WIRING SHALL BE CONTINUOUS AND UNSPLICED. TERMINATIONS SHALL ONLY OCCUR AT FIRE ALARM DEVICES OR CONTROL PANEL ENCLOSURES UNDER TERMINAL SCREWS. ALL OTHER SPLICING METHODS ARE SPECIFICALLY DISALLOWED. (I.E. PLASTIC WIRENUTS)

M. ALL FIRE ALARM WIRING SHALL BE INSTALLED USING A DEDICATED SYSTEM OF SUPPORTS (I.E. BRIDLE RINGS). FIRE ALARM WIRING SHALL NOT BE BUNDLED OR STRAPPED TO EXISTING CONDUIT, PIPE OR WIRE IN THE FACILITY.

N. <u>TEMPORAL HORN STROBES, G1RF–HOV SERIES</u>
THE HORN/STROBE SHALL PROVIDE AN AUDIBLE OUTPUT OF 84DBA AT 10 FT. STROBES SHALL PROVIDE SYNCHRONIZED FLASH OUTPUTS. THE STROBE OUTPUT SHALL BE 75CD OR AS INDICATED ON THE DRAWINGS. THE HORN SHALL HAVE A SELECTABLE STEADY OR SYNCHRONIZED TEMPORAL OUTPUT.

O. <u>REMOTE RELAYS, MULTI–VOLTAGE CONTROL RELAYS, MR–100 SERIES</u>
PROVIDE REMOTE CONTROL RELAYS CONNECTED TO SUPERVISED ANCILLARY CIRCUITS FOR CONTROL OF FANS, DAMPERS, DOOR RELEASES, ETC. RELAY CONTACT RATINGS SHALL BE SPDT AND RATED FOR 10 AMPERES AT 115 VAC. A SINGLE RELAY MAY BE ENERGIZED FROM A VOLTAGE SOURCE OF 24 VDC, 24 VAC, 115 VAC, OR 230 VAC. A RED LED SHALL INDICATE THE RELAY IS ENERGIZED. A METAL ENCLOSURE SHALL BE PROVIDED.

P. <u>ELECTROMAGNETIC DOORHOLDERS–GENERAL</u>
ELECTROMAGNETIC DOORHOLDERS SUBMITTED FOR USE MUST HAVE WRITTEN PROOF OF THEIR COMPATIBILITY FOR THE PURPOSES INTENDED. SUCH PROOF SHALL BE IN THE FORM OF DOCUMENTATION FROM ALL MANUFACTURERS THAT CLEARLY STATES THAT THEIR EQUIPMENT (AS SUBMITTED) IS 100% COMPATIBLE WITH EACH OTHER FOR THE PURPOSES INTENDED.



NOTES

1. REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES OF ALL DEVICES.
2. COORDINATE EXACT LOCATION OF FARA WITH FIRE MARSHAL, (COORDINATE COMMAND STATION REQUIREMENTS AND PROVIDE AS REQUIRED)
3. PROVIDE A MINIMUM OF 2 NOTIFICATION CIRCUITS. CIRCUIT EVERY OTHER DEVICE TO A SEPARATE CIRCUIT.
4. LOCATE REMOTE TEST SWITCH IN CLEARLY ACCESSIBLE LOCATION.
5. INTERCONNECT WIRING FROM SMOKE DETECTOR AND ASSOCIATED SMOKE DAMPER BY ELECTRICAL CONTRACTOR.
6. PROVIDE INTERCONNECTION WITH FIRE PUMP BUILDING AS REQUIRED.

TYPICAL FIRE ALARM RISER DIAGRAM

SCALE: NTS

LYMES' SENIOR CENTER RENOVATION

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Revisions

No.	Date	Description

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CM REFERENCE - NOT FOR CONSTRUCTION

DRAWING NAME:
ELECTRICAL FIRE ALARM SPECIFICATIONS & RISER DIAGRAM

SCALE: As indicated

SHEET:
E2.3

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ELECTRICAL SPECIFICATIONS

PART 1 – GENERAL PROVISIONS FOR ELECTRICAL WORK

REFERENCES

THIS SECTION COVERS THE GENERAL REQUIREMENTS FOR ELECTRICAL WORK; EXAMINE ALL CONTRACT DRAWINGS AND ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL WORK RELATED TO THE WORK OF THIS DIVISION.

DEFINITIONS

'PROVIDE' – TO FURNISH, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION OF PARTICULAR WORK REFERRED TO UNLESS, SPECIFICALLY OTHERWISE NOTED.

'INSTALL' – TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

'WORK' – LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

'WIRING' – RACEWAY, FITTINGS, WIRE, BOXES, MOUNTING HARDWARE AND RELATED ITEMS.

'CONCEALED' – EMBEDDED IN MASONRY OR OTHER CONSTRUCTION CAVITY, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS.

'SIMILAR' OR 'EQUAL' – EQUAL MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

'CONTRACTOR' – THE ELECTRICAL CONTRACTOR.

'NOTED' – AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

SCOPE

THIS WORK SHALL CONSIST OF THE FURNISHINGS OF ALL LABOR, MATERIALS AND SERVICES REQUIRED COMPLETE, READY FOR CORRECT OPERATION FOR ALL ELECTRICAL WORK CALL FOR BY THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

THE DATA INDICATED IN THESE DRAWINGS AND SPECIFICATIONS ARE AS EXACT AS COULD BE SECURED. BUT THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED. DO NOT SCALE DRAWINGS. EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER CONDITIONS WILL BE GOVERNED BY THE BUILDING. USE THE DRAWINGS AND SPECIFICATIONS FOR GUIDANCE AND SECURE THE ENGINEER'S APPROVAL OF CHANGES IN LOCATIONS, CIRCUITS, WHERE SHOWN ON AN ELECTRICAL DRAWINGS, ARE SO INDICATED PRIMARILY FOR THE PURPOSE OF INDICATING THE GENERAL CIRCUIT PLAN AND DO NOT NECESSARILY INDICATE THE EXACT LOCATION OF ROUTING OF THE RACEWAYS UNLESS SPECIFICALLY INDICATED. CIRCUITS SHALL BE RUN IN SUIT CONDITIONS CONSIDERING STRUCTURAL FEATURES, OTHER TRADES, CONSTRUCTION METHODS AND GOOD INSTALLATION PRACTICE.

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS UNDER WHICH THE WORK AND WORK OF OTHER TRADES WILL BE INSTALLED. THIS CONTRACT INCLUDES ALL NECESSARY OFFSETS, TRANSITIONS, MODIFICATIONS AND RELOCATION REQUIRED TO INSTALL ALL NEW EQUIPMENT IN NEW OR EXISTING SPACES. CONTRACTOR SHALL INCLUDE ANY MODIFICATIONS REQUIRED IN EXISTING ELECTRICAL EQUIPMENT FOR INSTALLATION OF NEW ELECTRICAL EQUIPMENT AND NEW EQUIPMENT (OF OTHER TRADES. (LIGHTING FIXTURES, DEVICES, CONDUIT WIRING, ETC.) ALL NEW AND EXISTING EQUIPMENT AND SYSTEMS SHALL BE FULLY OPERATIONAL UNDER THIS CONTRACT BEFORE THE PROJECT IS CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS THAT ARE MADE, ANY OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS OF ALL TRADES.

CODES, REGULATIONS AND STANDARDS

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING APPROVED CODES:

STATE DEMOLITION CODE
STATE BUILDING CODE
STATE FIRE SAFETY CODE
LOCAL BUILDING CODE
IBC – INTERNATIONAL BUILDING CODE
NFPA – NATIONAL FIRE PROTECTION CODE
ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM – AMERICAN SOCIETY FOR TESTING AND MATERIALS
OSHA – OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
U.L. – UNDERWRITERS LABORATORIES
NFPA 101 – LIFE SAFETY CODE
NFPA 70 – NATIONAL ELECTRICAL CODE
NFPA 72 – NATIONAL FIRE ALARM CODE
EPA – ENVIRONMETAL PROTECTION AGENCY
IEEE – INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
IECC – INTERNATIONAL ENERGY CONSERVATION CODE

PERMITS, FEES AND INSPECTIONS

THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY FOR ALL GOVERNMENT, STATE SALES TAXES AND APPLICABLE FEES. THE CONTRACTOR SHALL FILE ALL DRAWINGS, COMPLETE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS FROM THE PROPER AUTHORITY OR AGENCY HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION COVERING WORK. THE CONTRACTOR SHALL SEE THAT ALL REQUIRED INSPECTIONS AND TESTS ARE MADE AND SHALL COOPERATE TO MAKE THESE TESTS AS THOROUGH AND AS READILY MADE AS POSSIBLE.

MATERIALS AND WORKMANSHIP

ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW AND OF FIRST-CLASS QUALITY. IT SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED, FINISHED IN EVERY DETAIL AND SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ENGINEER SHALL BE FURNISHED.

ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR THE UNDERWRITER'S LABEL. NO SUBSTITUTE OR ALTERNATE EQUIPMENT, MATERIAL, ETC. WILL BE CONSIDERED FOR THIS PROJECT.

ALL WORK SHALL BE OF A QUALITY CONSISTENT WITH GOOD TRADE PRACTICE AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. THE ENGINEER/OWNER RESERVES THE RIGHT TO REJECT ANY WORK WHICH, IN HIS OPINION, HAS BEEN INSTALLED IN A SUBSTANDARD, DANGEROUS OR IN A UNSERVICEABLE MANNER. THE CONTRACTOR SHALL REPLACE REJECTED WORK IN A SATISFACTORY MANNER AT NO EXTRA COST TO THE OWNER.

GUARANTEES

ALL WORKMANSHIP AND MATERIALS SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE ENTIRE INSTALLATION COVERED BY THIS CONTRACT. SHOULD ANY DEFECTS OCCUR DURING THE GUARANTEED PERIOD, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE EQUIPMENT, MATERIAL AND/OR WORK AT NO EXTRA CHARGE TO THE OWNER.

RECORD DRAWINGS

MAINTAIN, AT THE JOB SITE, A SET OF ELECTRICAL DRAWINGS INDICATING ALL CHANGES IN LOCATION AND CIRCUITING OF THE EQUIPMENT, PANELS, DEVICES, ETC. FROM THE ORIGINAL LAYOUT. CLEARLY MARK IN RED ALL CHANGES ON THE DRAWINGS. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL TURN OVER THE RECORD DRAWINGS TO THE ENGINEER/OWNER.

COORDINATION

ALL WORK SHALL BE COORDINATED AND CARRIED OUT IN CONJUNCTION WITH ALL TRADES AND FULL COORDINATION DRAWINGS SHALL BE CREATED IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE.

SHOP DRAWINGS

SUBMIT ELECTRONIC PDF FORMAT OR EIGHT (8) COPIES FOR REVIEW, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIAL SPECIFIED. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL CONTRACTOR HAS IN THEIR POSSESSION, APPROVED SHOP DRAWINGS FOR THE PARTICULAR MATERIAL OR EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFIC WITH ITEMS SUBMITTED FOR APPROVAL CLEARLY IDENTIFIED.

THE FOLLOWING IS A LIST OF ELECTRICAL ITEMS THAT MUST BE SUBMITTED FOR REVIEW:

a. SAFETY/DISCONNECT SWITCHES
b. CIRCUIT BREAKERS
c. LIGHTING
d. CONDUIT, WIRE AND CABLE
e. FIRE ALARM EQUIPMENT
f. DEVICES (RECEPTACLES, TOGGLE SWITCHES, ETC.)

OPERATING INSTRUCTIONS

THE CONTRACTOR SHALL FURNISH TO THE ENGINEER, FOUR (4) COMPLETE BOUND SETS OF TYPEWRITTEN OR BLUEPRINTED INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT INCLUDED IN THIS DIVISION. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE FOR OPERATING AND MAINTENANCE INSTRUCTIONS. THE CONTRACTOR, IN THE ABOVE-MENTIONED INSTRUCTIONS, SHALL INCLUDE THE MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED UNDER THIS DIVISION. AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL ATTEST IN WRITING THAT HIS EQUIPMENT HAS BEEN PROPERLY INSTALLED PRIOR TO STARTUP. THESE LETTERS WILL BE BOUND INTO OPERATING AND MAINTENANCE BOOKS.

EQUIPMENT PROTECTION

PROPERLY AND COMPLETELY PROTECT AGAINST ALL DAMAGE, ALL APPARATUS, EQUIPMENT, ETC., INCLUDED IN THIS CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO FURNISHED APPARATUS, EQUIPMENT, ETC., UNTIL FINAL ACCEPTANCE.

PROPERTY PROTECTION

THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY AND/OR REQUIRED TO PROTECT OWNER'S PROPERTY WITHIN THE WORKING AREAS FROM DUST, DEBRIS AND OTHER MATTER GENERATED BY THE WORK. NO WORK SHALL COMMENCE IN AREAS WHERE PROTECTION IS REQUIRED UNTIL APPROVAL HAS BEEN GIVEN TO THE CONTRACTOR BY THE OWNER.

MANUFACTURER'S INSTRUCTION

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.

EQUIPMENT PAINTING AND CLEANING

THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT DEVICES AND ENCLOSURES UPON COMPLETION OF ALL WORK. REPAINT ANY EQUIPMENT WHOSE FINISH IS DAMAGED OR RUSTED. MATCH MANUFACTURER'S ORIGINAL FINISH.

DEMOLITION/REMOVAL AND RECONNECTION

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS UNDER WHICH HIS WORK WILL BE INSTALLED.

ALL EXISTING ACTIVE CIRCUITS WHICH FEED EQUIPMENT OR DEVICES THAT ARE TO REMAIN, SHALL BE MAINTAINED IN SERVICE AND SHALL BE PERMANENTLY REFED.
ALL ITEMS BEING REMOVED SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE UNLESS OTHERWISE INDICATED. EQUIPMENT AND DEVICES THE OWNER DOES NOT WISH TO RETAIN SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
ALL MATERIAL CHOSEN TO BE RETAINED BY THE OWNER SHALL BE DELIVERED BY THE CONTRACTOR TO SUCH POINT AS DESIGNATED BY THE OWNER.
MATERIAL TO BE REUSED SHALL BE CAREFULLY REMOVED AND STORED AND SHALL BE REINSTALLED IN AS-FOUND CONDITION EXCEPT AS OTHERWISE INDICATED ON THE PLANS.
DAMAGE OR LOSS OF MATERIAL TO BE REUSED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED OR REPLACED WITH THE EQUIVALENT MATERIAL ACCEPTABLE BY THE OWNER.
DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL WORK IN CONTRACT AREA AS INDICATED ON DRAWINGS.
ALL WIRING AND CABLING SHALL BE REMOVED BACK TO ORIGINATION PANEL, UNLESS OTHERWISE INDICTED.
CONTRACTOR SHALL KEEP PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL AND RUBBISH, AND AT COMPLETION OF WORK DAY, SHALL REMOVE ALL RUBBISH AND IMPLEMENTS TO A DESIGNATED LOCATION, IF AVAILABLE, LEAVING WORK AREAS BROOM CLEAN. UNUSED OUTLET BOXES AND PLASTER RINGS SHALL BE PROVIDED WITH BLANK COVER PLATES AND MATCH DEVICE PLATES WITHIN THE ROOM.

PENETRATION SEALANT

ALL PENETRATIONS SHALL BE SEALED WITH 3M INTUMESCENT FIRE BARRIER PENETRATION SEALANT, APPLIED PER MANUFACTURER'S AND U.L. GUIDELINES.

CUTTING, PATCHING, REPAIRING AND PAINTING

THE GENERAL CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, REPAIRING AND PAINTING FOR ALL ELECTRICAL ITEMS AND EQUIPMENT CALLED FOR UNDER THIS CONTRACT.

FIRE STOPS AND SEALS

PENETRATIONS THROUGH FIRE-RATED WALLS, CEILING OR FLOORS IN WHICH CABLES OR CONDUITS PASS SHALL BE FILLED SOLIDLY BY U.L. APPROVED FIRE-STOP MATERIALS, CLASSIFIED FOR AN HOUR RATING EQUAL TO THE FIRE RATING OF THE WALL, CEILING OR FLOOR. PROVIDE TO 3M BRAND FIRE BARRIER CP25WB CAULK OR APPROVED EQUIVALENT. SEALING BUSHINGS SHALL BE USED ON CONDUIT AND CABLE ENDS TO EFFECTIVELY PREVENT THE PASSAGE OF WATER, A DAMP OR CORROSIVE ATMOSPHERE, DRAFT OR DUST.

ACCESS PANELS

THE CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS AND DOORS AS REQUIRED FOR ACCESS TO INACCESSIBLE PULLBOXES, JUNCTION BOXES AND OTHER SPECIAL FACILITIES. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ACCESS PANELS AND DOORS WITH THE GENERAL CONTRACTOR AND OTHER TRADES. FINAL LOCATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

INTERRUPTION OF EXISTING SERVICES

PRIOR TO PERFORMING WORK REQUIRING INTERRUPTION OF EXISTING SERVICES, THE CONTRACTOR SHALL SECURE FROM THE OWNER, APPROVAL OF THE PROPOSED OPERATION. (48 HOURS IN ADVANCE) WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, INCLUDING OVERTIME, OF REQUIRED, TO ASSURE THAT THE EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTIONS.

PART 2 – PRODUCTS

DESCRIPTION

ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE NEW, FIRST GRADE, BEST OF THEIR RESPECTIVE KINDS AND IN NO WAY SHALL THEY BE LESS THAN THE QUALITY AND TEST REQUIREMENTS SET FORTH IN THIS SECTION. THEY SHALL MEET THE REQUIREMENTS OF ALL STANDARDS SET UP TO GOVERN THE MANUFACTURER OF ELECTRICAL MATERIALS AND COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.

WIRE

CONDUCTORS SHALL BE U.L. LISTED, 600 VOLTS, 90 DEG. C., SINGLE CONDUCTOR TYPE THWN/THHN. 98% CONDUCTIVITY, ANNEALED UNCOATED COPPER WITH PVC INSULATION COVERED WITH NYLON SHEATH JACKET. TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARD 83. WIRE SHALL BE IDENTIFIED BY SURFACE MARKING INDICATING MANUFACTURER'S IDENTIFICATION CONDUCTOR SIZE AND METAL, VOLTAGE RATING, U.L. SYMBOL AND TYPE DESIGNATION. CONDUCTORS SHALL BE STRANDED. MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY ROME CABLE, TRIANGLE WIRE & CABLE, GENERAL CABLE OR ESSEX WIRE & CABLE.

RIGID GALVANIZED STEEL CONDUIT (RGS)

RIGID STEEL CONDUIT SHALL BE FULL WEIGHT, HEAVY WALL STEEL PIPE WITH GALVANIZED PROTECTIVE COATING. MANUFACTURED BY TRIANGLE WIRE AND CABLE, ALLIED TUBE AND TINDUIT, REPUBLIC OR STEELDUCT. CONDUIT FITTINGS SHALL BE MALLEABLE IRON, CADMIUM PLATED WITH FULL THREADED HUBS.

RIGID POLYVINYL CHLORIDE CONDUIT (PVC)

RIGID POLYVINYL CHLORIDE CONDUIT SHALL BE TYPE DB, SCHEDULE 40, SUNLIGHT RESISTANT, RATED OR USE WITH 90 DEGREES C. CONDUCTORS, U.L. RATED. ALL PVC CONDUIT AND FITTINGS SHALL BE SOLVENT WELDED. MANUFACTURED BY CARLON, ELECTRI-FLEX OR PLASTI-BOND.

ELECTRIC METALLIC TUBING (EMT)

ELECTRICAL METALLIC TUBING SHALL BE GALVANIZED THIN WALL STEEL CONDUIT. MANUFACTURED BY TRIANGLE WIRE AND CABLE, ALLIED TUBE AND CONDUIT, REPUBLIC OR STEELDUCT. THE CONNECTORS AND COUPLINGS SHALL BE HEAVY DUTY, STEEL-ZINC PLATED, SET SCREW TYPE.

FLEXIBLE METALLIC CONDUIT (FMC)

FLEXIBLE METALLIC CONDUIT SHALL BE OF HEAVY GALVANIZED SHEET METAL STRIP IN INTERLOCKED CONSTRUCTION. MANUFACTURED BY TRIANGLE WIRE AND CABLE, AMERICAN FLEXIBLE CONDUIT OR ELECTRIC-FLEX. THE CONNECTORS SHALL BE SQUEEZE TYPE MALLEABLE IRON, CADMIUM PLATED.

LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC)

LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE CONSTRUCTED OF HEAVY GALVANIZED SHEET METAL STRIP, SPIRALLY-WOUND INTERLOCK CONSTRUCTION WITH AN EXTRUDED POLYVINYL GRAY JACKET. CONDUIT SHALL BE U.L. LABELED AND CONFORMED TO THE APPLICATION AND ENVIRONMENT IN WHICH IT WILL BE USED. ALL CONNECTIONS, COUPLINGS AND FITTINGS SHALL BE OF HIGH QUALITY STEEL-ZINC RATED TYPE SPECIFICALLY DESIGNED FOR THIS PURPOSE. MANUFACTURED BY O/Z GEDNEY OR ELECTRI-FLEX.

METAL CLAD CABLE (MC)

METAL CLAD CABLE SHALL BE INTERLOCKING GALVANIZED STEEL ARMOR CONSTRUCTION. COLOR CODED THERMOPLASTIC/NYLON INSULATION THHN, 90 DEGREE C., 600 VOLTS, COPPER CONDUCTORS AND INTERNAL INSULATED EQUIPMENT COPPER GROUND CONDUCTOR. MARKER TAPE AND CABLE TAPE OVER MINIMUM SIZE #12 AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY AMERICAN FLEXIBLE CONDUIT, TRIANGLE WIRE AND CABLE, GENERAL CABLE OR STANDARD CABLE.

FITTINGS

CONDUIT BODIES FOR RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE MALLEABLE IRON-ZINC PLATED WITH TAPERED THREADS AND GASKETED ALUMINUM COVER.
CONDUIT BODIES FOR ELECTRICAL METALLIC TUBING (EMT) SHALL BE CAST ALUMINUM-ALUMINUM ENAMEL FINISH WITH SET SCREW HUBS AND ALUMINUM COVER.
INSULATION BUSHINGS SHALL BE HIGH IMPACT THERMOPLASTIC PHENOLIC WITH 150 DEG. C. UL TEMPERATURE RATING.
INSULATED GROUNDING BUSHINGS SHALL BE MALLEABLE IRON ZINC PLATED WITH MOLDED ON PHENOLIC INSULATION AND LAY-IN GROUNDING LUG.
CONDUIT LOCKNUTS SHALL BE HEAVY NUT STOCK STEEL-ZINC PLATED.
OFFSET NIPPLES SHALL BE MALLEABLE IRON ZINC PLATED WITH RIGID CONDUIT THREADING AND 3/4" OFFSET.
CONNECTORS AND COUPLINGS FOR ELECTRICAL METALLIC TUBING (EMT) SHALL BE HEAVY STEEL-ZINC PLATED WITH PRE-SET/PRE-SHAKED SET SCREWS.
CONDUIT STRAPS SHALL BE SNAP-TYPE, DOUBLE RIBBED STEEL-ZINC PLATED.
METAL CLAD CABLE AND FLEXIBLE METALLIC CONDUIT CONNECTORS SHALL BE MALLEABLE IRON-ZINC PLATED, MALE HUB THREADS WITH LOCKNUT.
CONDUIT FITTINGS SHALL BE MANUFACTURED BY O/Z GEDNEY, CROUSE-HINDS OR APPLETON.

SUPPORT FITTINGS

SUPPORT CHANNEL SHALL BE ROLL-FORMED #12 GAUGE STEEL, SOLID BASE OR BOLT HOLE BASE – HOT DIP GALVANIZED FINISH. COMPLETE WITH ANGLE FITTINGS, SPRING NUTS, CONDUIT SUPPORTS, 3/8" OR 1/2" THREADED RODS (SIZE REQUIRED FOR LOAD), ETC.

CABLE TIES

CABLE TIES SHALL BE FABRICATED OF ONE-PIECE HALLAR WITH NO METAL PARTS. MANUFACTURED BY BURNDY, T&B, PANDUIT OR BLACKBURN.

OUTLET BOXES

OUTLET BOXES SHALL BE GALVANIZED STEEL, FLUSH OR SURFACE MOUNTED AND OF PROPER TYPE AND SIZE AS REQUIRED FOR THE PARTICULAR APPLICATION. SIZE AND TYPE DICTATED BY THE NUMBER OF DEVICES, NUMBER OF CONDUCTORS AND WIRING METHODS UTILIZED. BOXES SHALL BE ADEQUATE SIZE FOR THE INSTALLATION OF CONDUCTORS WITHOUT EXCESSIVE BENDING OR CRIMPING OF THE CONDUCTORS AND DAMAGING OF CONDUCTOR INSULATION. MANUFACTURED BY STEEL CITY OR RACO.
OUTLET BOXES SHALL BE SECURED FIRMLY IN PLACE TO THE BUILDING STRUCTURE AND SET TRUE AND SQUARE. PROVIDE SUITABLE MEANS TO SUPPORT OUTLET BOX TO TAKE THE WEIGHT OF THE LIGHTING FIXTURE OR DEVICE. OUTLET BOXED OR BOX EXTENSION RINGS SHALL BE SET FLUSH TO THE FINISHED WALL OR CEILING. BOXES MUST BE ATTACHED THAT THEY WILL NOT 'ROCK', 'SHIFT' OR 'MOVE IN AND OUT' WHEN DEVICES ARE USED. IN NO CASE SHALL BOXES BE INSTALLED BACK-TO-BACK IN A COMMON WALL DIVIDING TWO SPACES.
WHERE MORE THAN ONE OUTLET IS SHOWN OR SPECIFIED TO BE THE SAME ELEVATION OR ONE ABOVE THE OTHER, ALIGN THEM EXACTLY ON CENTER LINES HORIZONTALLY OR VERTICALLY. MULTIPLE SWITCHES SHOWN AT ONE LOCATION SHALL BE INSTALLED GANGED TOGETHER UNDER ONE WALL PLATE. SWITCHES SHALL BE ARRANGED IN AN ORDER APPROPRIATE TO THE LOCATIONS OF LIGHTING FIXTURE BEING CONTROLLED.

CIRCUIT BREAKERS

BRANCH CIRCUIT BREAKERS SHALL MATCH EXISTING TYPE MANUFACTURE AND AIC RATING.
ALL MULTI-POLE BREAKERS SHALL BE EQUIPPED WITH HANDLE TIES FOR MULTI-POLE USE.
FOR CIRCUIT BREAKER SIZES 150 AMPS AND LARGER PROVIDE THE FOLLOWING.
ELECTRONIC TRIP CIRCUIT BREAKERS WITH RMS SENSING; FIELD-INSTALLABLE RATING PLUG OR FIELD-REPLICABLE ELECTRONIC TRIP; AND THE FOLLOWING FIELD-ADJUSTABLE SETTINGS:
INSTANTANEOUS TRIP.
LONG AND SHORT TIME PICKUP LEVELS.
LONG AND SHORT TIME ADJUSTMENTS.

PHASE SEQUENCE AND BALANCING

MAINTAIN CORRECT PHASE SEQUENCE OF ALL FEEDERS AND CIRCUITS WITH PHASE IDENTIFICATION THROUGHOUT THE ENTIRE SYSTEM. BALANCING ALL FEEDERS AND CIRCUITS TO WITHIN 10 PERCENT.

SAFETY/DISCONNECT SWITCHES

DISCONNECT/SAFETY SWITCHES SHALL BE MOTOR RATED, METAL ENCLOSED, INTERLOCKING, FUSIBLE OR NONFUSED AS INDICATED. HEAVY DUTY TYPE, WITH APPROPRIATE VOLTAGE RATINGS, QUICK-MAKE, QUICK-BREAK MECHANISMS, SOLID NEUTRAL AND U.L. LISTED. SWITCHES SHALL HAVE PROPER TYPE METAL ENCLOSURES; STANDARD, WEATHERPROOF, DUSTPROOF, ETC., TO SUIT THEIR SPECIFIC LOCATIONS. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D', OR CUTLER HAMMER.

MANUAL MOTORS

FURNISH AND INSTALL FRACTIONAL HORSEPOWER MANUAL MOTOR STARTERS WITH ON-OFF CONTROL, THERMAL OVERLOAD RELAY AND PILOT LIGHTS. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D', OR ALLEN BRADLEY.

	GENERAL ELECTRIC	SQUARE 'D'	ALLEN BRADLEY	SIEMENS
1 POLE, SURFACE	CR101Y11	2510FG1P	600-TAX4	SMFFG1P
2 POLE, SURFACE	CR101H11	2510FG2P	600-TAX5	SMFFG2P

SHORT CIRCUIT/COORDINATION/ARC FLASH ANALYSIS AND STUDY

PROVIDE A COMPLETE SHORT CIRCUIT, COORDINATION AND ARC FLASH ANALYSIS AND REPORT FOR THE PROJECT BASED ON THE MODIFICATIONS AND ADDITIONS TO THE ORIGINAL BUILDING ELECTRICAL SYSTEMS AND EMERGENCY POWER DISTRIBUTION SYSTEMS. STUDY MUST BE PERFORMED USING COMMERCIALLY DEVELOPED AND DISTRIBUTED SOFTWARE DESIGNED SPECIFICALLY FOR POWER SYSTEM ANALYSIS. THE CONTRACTOR SHALL RETAIN THE SERVICES OF SCHNEIDER ELECTRIC AT 1.888.778.2733 FOR THE ANALYSIS BASED ON THE ORIGINAL PROJECT NO. 33594810. PREPARE STUDY BASED ON THE PROCEDURES CONTAINED IN IEEE 399. CALCULATE SHORT CIRCUIT CURRENTS ACCORDING TO IEEE 551. COMPLY WITH IEEE 242 FOR CALCULATING SHORT-CIRCUIT CURRENTS AND DETERMINING COORDINATION TIME INTERVALS. ADJUST RELAY AND PROTECTIVE DEVICE SETTINGS ACCORDING TO RECOMMENDED SETTINGS PROVIDED BY COORDINATION STUDY, COMPLY WITH NFPA 70E AND ITS ANNEX D FOR HAZARD ANALYSIS STUDY. BASED ON ANALYSIS AND STUDY REPORT, ADJUST THE SHORT CIRCUIT RATING OF OVERCURRENT PROTECTION DEVICES FOR THIS PROJECT WITH NO ADDITIONAL COST TO OWNER, ADJUST RELAY AND PROTECTIVE DEVICE SETTINGS ACCORDING TO RECOMMENDED SETTINGS PROVIDED BY COORDINATION STUDY, AND PROVIDE ARC-FLASH LABEL ON FRONT COVER FOR ALL EQUIPMENT INCLUDED IN PROJECT STUDY.

JUNCTION BOXES, PULLBOXES AND WIREWAYS

JUNCTION BOXES, PULLBOXES AND WIREWAYS SHALL BE OF PROPER TYPE AND SIZES AS REQUIRED. CODE GAUGE, GALVANIZED STEEL WITH KNOCKOUTS AND FLANGES TO RECEIVE THE COVERS. COVERS SHALL BE FLAT, OF THE SAME MATERIAL AS THE BOX AND FASTENED TO THE BOX WITH MACHINE SCREWS. MANUFACTURED BY HOFFMAN, SQUARE 'D', OR LEE PRODUCTS.

WIRING DEVICES

ALL DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE, U.L. LISTED, SELF-GROUNDING, GROUND LUG, SIDE/BACK WIRED. COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED. MANUFACTURED BY HUBBELL, LEVITON, OR PASS & SEYMOUR.
DEVICES COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED FOR NORMAL POWER CIRCUITS AND RED FOR EMERGENCY POWER CIRCUITS.
RECEPTACLES THAT HAVE A POWER FEED THRU (FEED IN – FEED OUT) ARRANGEMENT SHALL BE PIGTAILED. FEED THRU FEATURE ON DUPLEX RECEPTACLES USE IS NOT ACCEPTABLE.

SWITCHES: 20A 120/277V		HUBBELL	LEVITON	PASS & SEYMOUR
SINGLE POLE SWITCH		CSB120	CSB1-20	CSB20AC1
THREE-WAY SWITCH		CSB320	CSB3-20	CSB20AC3
FOUR-WAY SWITCH		CSB420	CSB4-20	CSB20AC4
RECEPTACLES: 20A	125V	HUBBELL	LEVITON	PASS & SEYMOUR
DUPLEX RECEPTACLE		BR20	5362	CRB5362
DUPLEX RECEPTACLE – GFCI		GF20 AL	7899	2095

WALL PLATES FOR SWITCHES AND RECEPTACLES SHALL BE SMOOTH THERMOPLASTIC OR NYLON IN FURNISHED AREAS. COLOR TO MATCH DEVICES.
WALL PLATES FOR SWITCHES AND RECEPTACLES SHALL HAVE PANELBOARD AND CIRCUIT DESIGNATION AT TOP OF PLATE..
RECEPTACLES LOCATED IN 'WET LOCATIONS SHALL BE INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED 'SUITABLE FOR WET LOCATIONS WHILE IN USE'. THERE MUST BE A GASKET BETWEEN THE COVER AND THE BASE TO ASSURE A PROPER SEAL. THE ENCLOSURE MUST EMPLOY STAINLESS STEEL MOUNTING HARDWARE AND BE CONSTRUCTED OF IMPACT RESISTANT POLYCARBONATE. THE OUTLET ENCLOSURE SHALL BE U.L. LISTED. MANUFACTURED BY HUBBELL, OR APPROVED EQUAL.

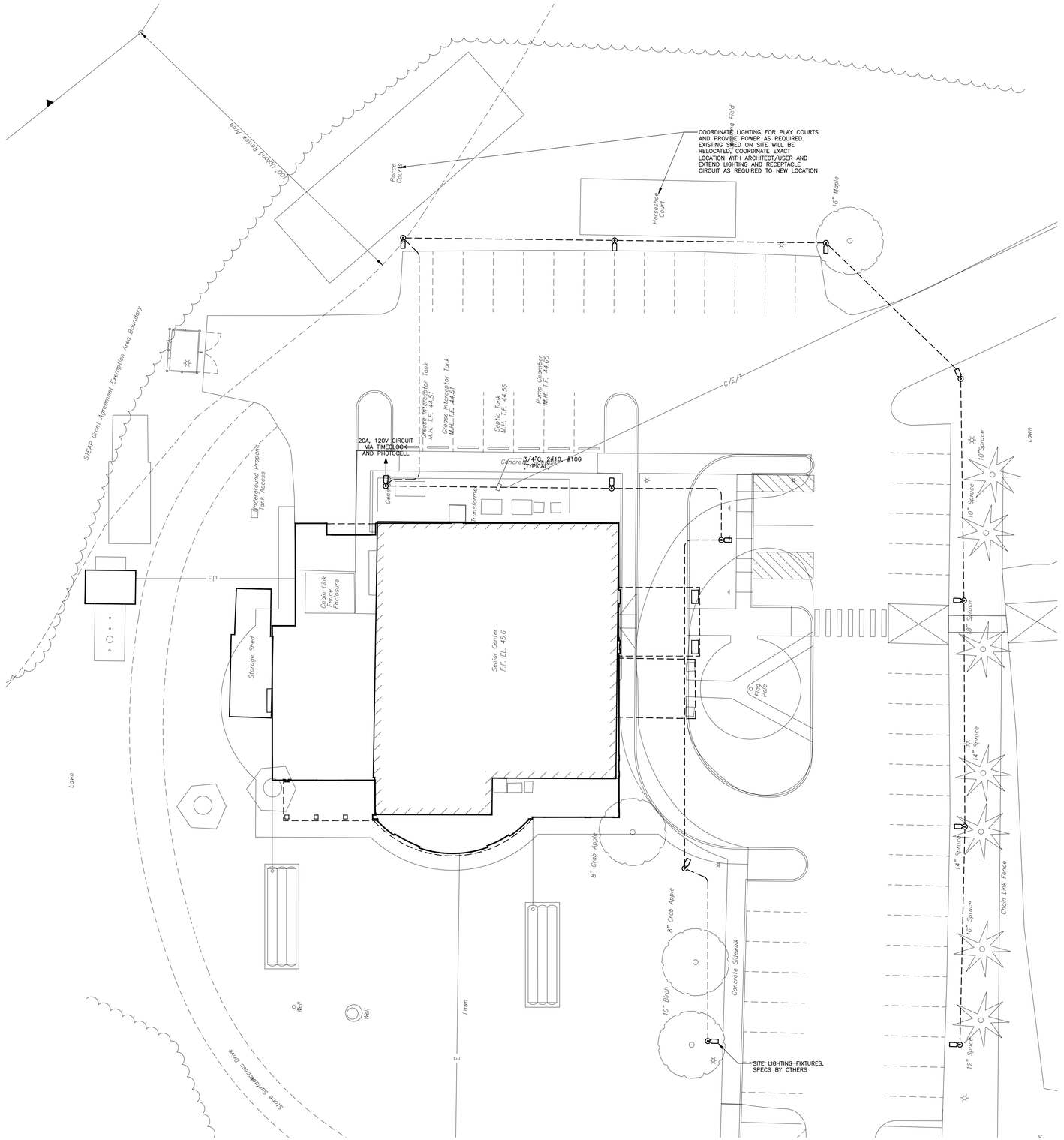
OCCUPANCY SENSORS

OCCUPANCY SENSOR SWITCHES SHALL BE RATED FOR 120/277 VOLT AND BE CAPABLE OF SWITCHING ZERO TO 600 WAns OF ELECTRONIC BALLAST LOADS WITH TIME DELAY SETTINGS FROM 30 SECONDS TO 20 MINUTES. SENSOR SWITCHING RELAY SHALL BE 1V-5 RATED OR HIGHER. MANUFACTURED BY SENSOR SWITCH, INC., WAn-STOPPER OR HUBBELL. COLOR SELECTED BY ARCHITECT.

	HUBBELL	SENSOR SWITCH, INC.	WATT-STOPPER
WALL SWITCH	ADT1227I	WSD-PDT	DW-100
LARGE AREA WALL SWITCH	WS1277	LWS-PDT	
CEILING MOUNTED SENSOR	ADT1000C	CMPDT10	DT-300
RELAY	CU300A		

LIGHTING FIXTURES

FURNISH AND INSTALL ALL LIGHTING FIXTURES AS SPECIFIED ON THE SCHEDULES, COMPLETE WITH ALL ACCESSORIES, LOUVERS, LAMPS AND MOUNTING HARDWARE. THE FIXTURES SHOWN ARE MARKED AS TYPE A, B, C, ETC.
CLEAN AND FREE OF PAINT, STICKERS, DIRT, SMUDGES AND FINGERPRINTS FROM LIGHTING FIXTURES AFTER FINAL BUILDING CLEAN-UP.
LAY-IN TROFFERS AND PENDANT LIGHT FIXTURES SHALL HAVE A 12



SITE LIGHTING PLAN
SCALE: 1/16"= 1'-0"

LYMES' SENIOR CENTER RENOVATION

26 Town Woods Road
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PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	
CHECKED BY:	
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME:
SITE LIGHTING PLAN

SCALE: As indicated

SHEET:
SL1.0

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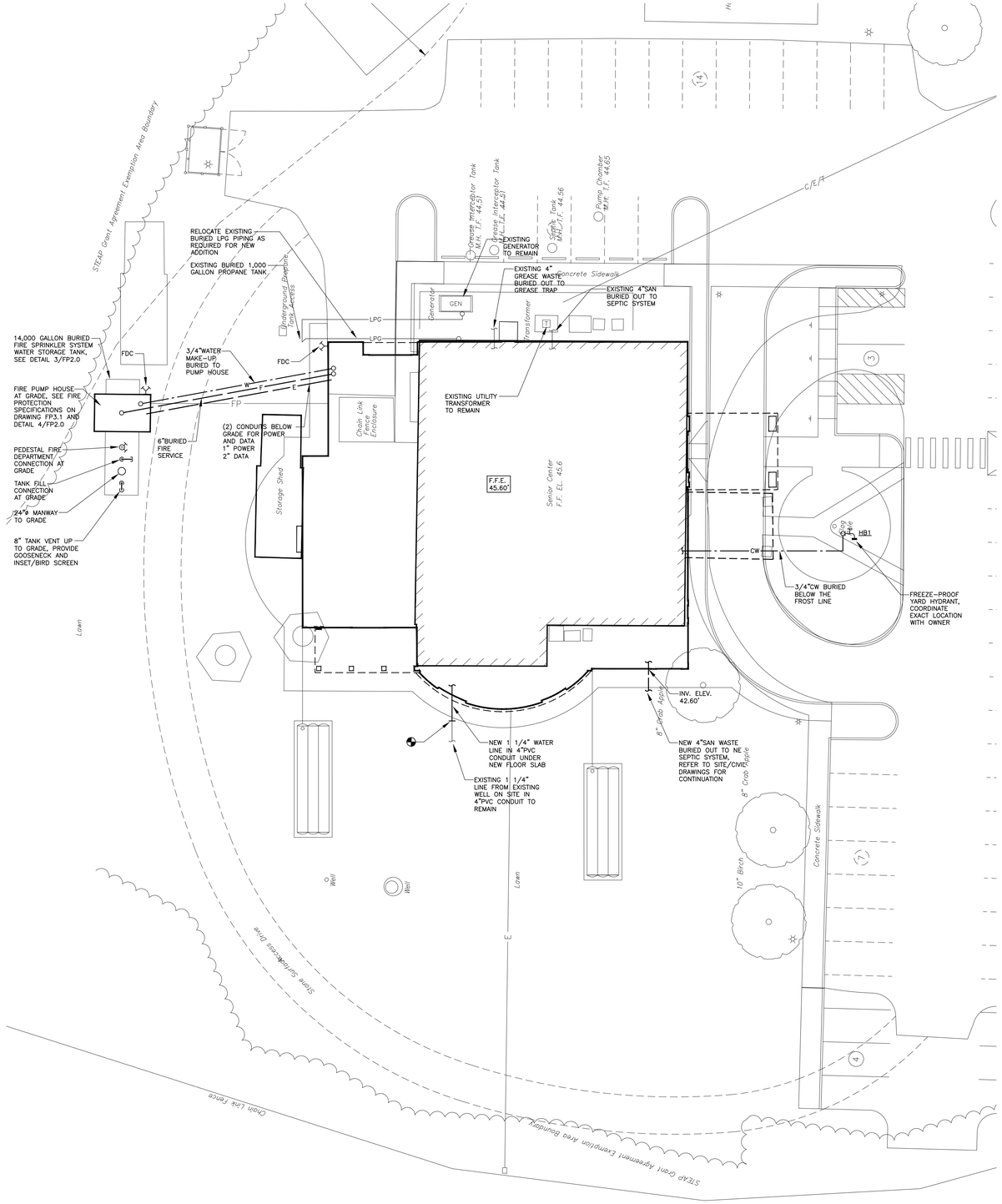


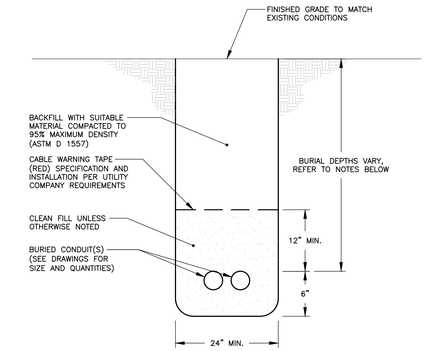
SITE UTILITY PLAN
SCALE: 1/16"= 1'-0"

WARNING: UNDERGROUND UTILITIES

THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR CONTACTING THE LOCAL POWER, TELEPHONE, CABLE TELEVISION, GAS, WATER, AND SEWER COMPANIES AND ANY OTHER UTILITY COMPANIES WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES, OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. CONTRACTOR CAN OBTAIN INFORMATION REGARDING THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITIES BY CALLING: 1-800-922-4455 A MINIMUM OF (2) TWO FULL WORKING DAYS BEFORE ANY EXCAVATION.

CALL TWO FULL WORKING DAYS IN ADVANCE

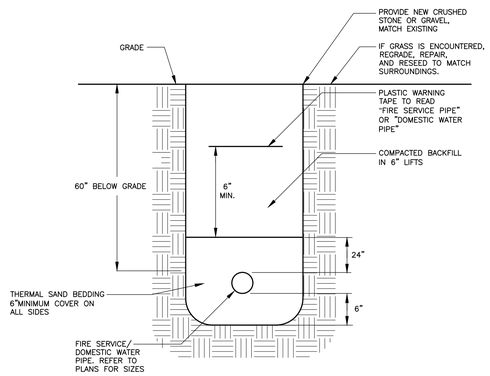
CALL BEFORE YOU DIG
1-800-922-4455
TOLL FREE STATEWIDE



NOTES

1. RGS AND ENT CONDUIT SHALL BE BURIED WITH A MINIMUM OF 24" CLEAN BACKFILL WHERE SUBJECT TO VEHICULAR TRAFFIC SUCH AS PARKING LOTS AND ROADWAYS.
2. RGS AND ENT CONDUIT SHALL BE BURIED WITH A MINIMUM OF 18" CLEAN BACKFILL WHERE SUBJECT TO VEHICULAR TRAFFIC IN ONE OR TWO FAMILY DWELLINGS.
3. WHERE NOT SUBJECT TO VEHICULAR TRAFFIC, 18" MINIMUM CLEAN BACKFILL SHALL BE PROVIDED OVER RGS AND ENT CONDUIT.
4. CONDUIT PROVIDED FOR PRIMARY UTILITY CONDUCTORS SHALL BE INSTALLED PER THE LOCAL UTILITY REQUIREMENTS. AT A MINIMUM IT SHALL BE COVERED WITH 30" OF CLEAN BACKFILL IN ALL LOCATIONS.
5. INSTALL WARNING TAPE 12" ABOVE TOP OF CONDUIT.
6. WHERE INSTALLED BELOW 2" OF CONCRETE ENT CONDUIT SHALL BE A MINIMUM OF 12" BELOW GRADE. WHERE INSTALLED BELOW 4" OF CONCRETE, ENT CONDUIT SHALL BE A MINIMUM OF 4" BELOW GRADE.
7. WHERE SOLID ROCK PREVENTS COMPLIANCE THE WIRING SHALL BE INSTALLED IN METAL OR NON-METTALIC RACEWAY PERMITTED FOR DIRECT BURIAL. THE RACEWAY SHALL BE COVERED BY A MINIMUM OF 2" CONCRETE EXTENDING DOWN TO THE ROCK.

TYPICAL ELECTRICAL TRENCH DETAIL
N.T.S.



TYPICAL WATER/FIRE PIPE TRENCHING DETAIL
SCALE: N.T.S.

N

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33 N PLAINS INDUSTRIAL RD
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TEL: 203.467.4370
WEB: WWW.IESLLC.BIZ

PHASE: PROGRESS

JOB #:	790
DRAWN BY:	
CHECKED BY:	
ISSUE DATE:	JULY 19, 2023

Revisions

No.	Date	Description

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DRAWING NAME: SITE UTILITY PLAN

SCALE: As indicated

SHEET: SU1.0

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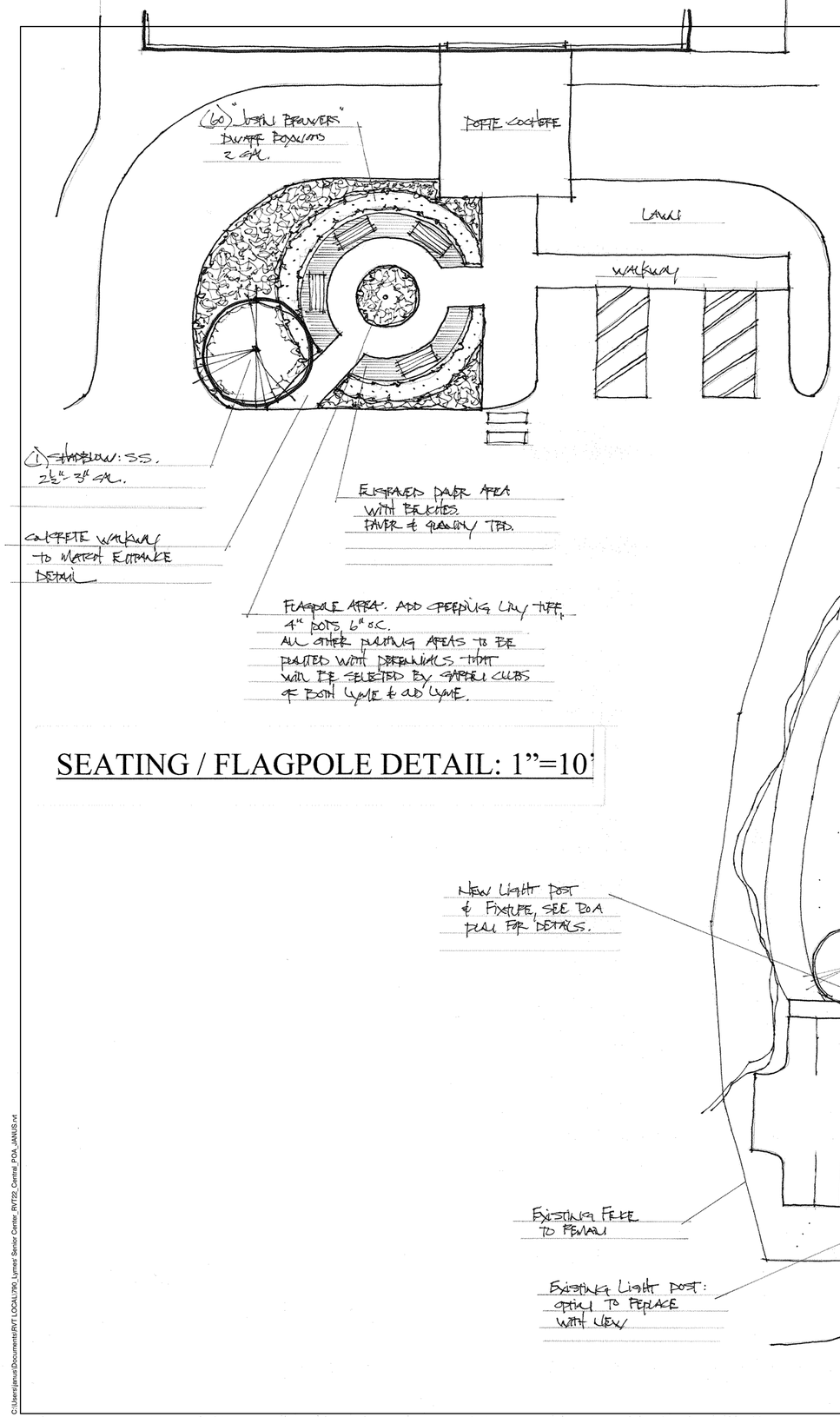
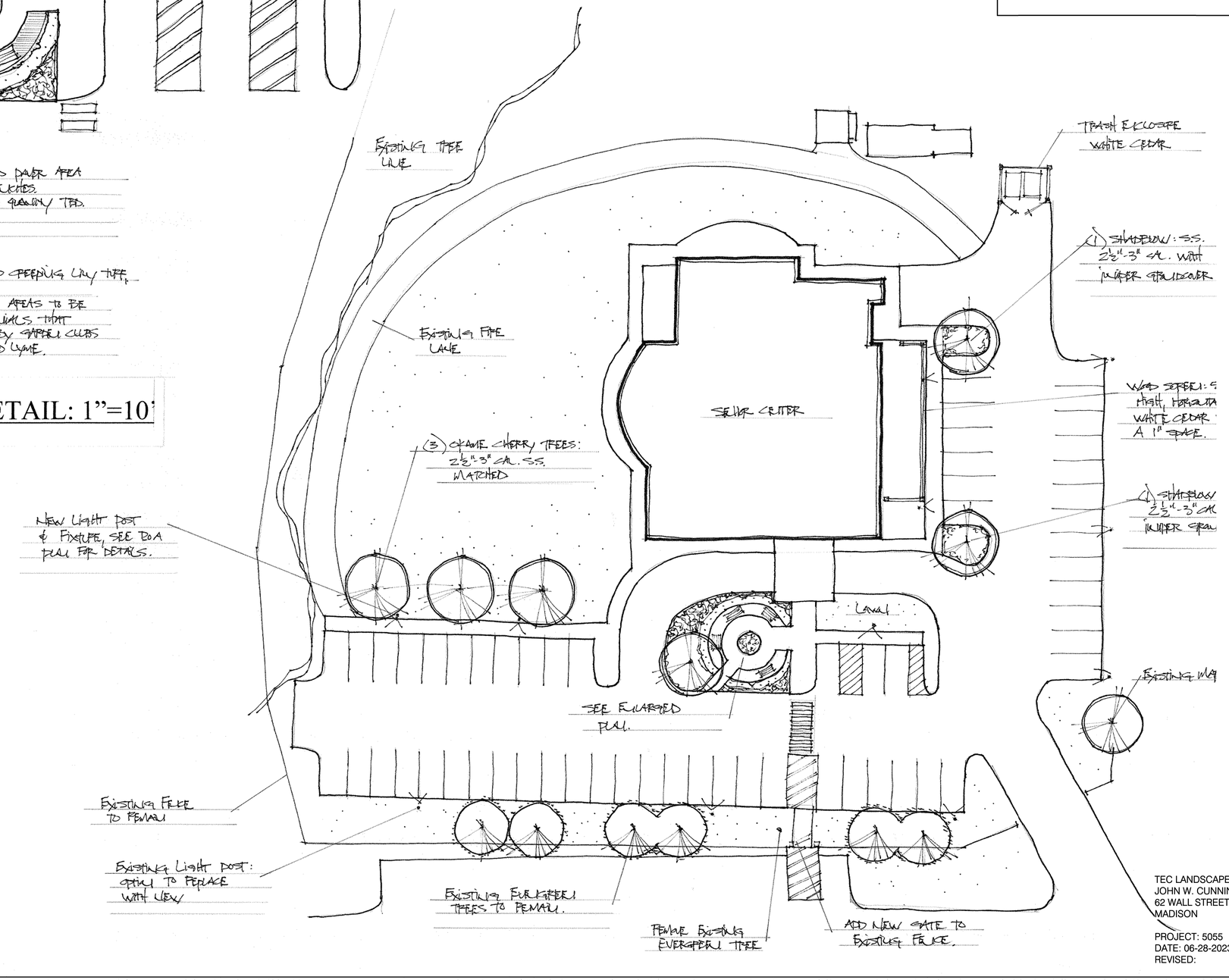


SEATING / FLAGPOLE DETAIL: 1"=10'



TEC LANDSCAPE DESIGN, INC.
NOTES:
ALL FINAL ELEVATIONS AND DIMESNTIONS OF PLANTNG ARES WIL BE LAID OUT FOR CONTRACTOR PRIORE TO COMMENCEMENT.
ALL PLANITING BOUNDAREIS TO BE FILED DETERMINED.
ALL PLANT MATERIAL WILL BE SELECTED BY AND FILED DETERMEIED BY TEC.
THIS PLAN IS FOR GRAPHIC RPRESENTATION OF THE LANDSCAPE ONLY.
REFER TO CIVIL AND SITE DRAWINGS FOR ALL INFORMATION REGARDING CLEARNING, DRAINAGE, AND WALKWAYS AND SPECIFIC DEIMENSIONS OF ALL PROPOSED CONSTRUCTION.

ADD ALTERNATE #1 - ALL LANDSCAPE PLANINGS

TEC LANDSCAPE DESIGN, INC.
JOHN W. CUNNINGHAM
62 WALL STREET
MADISON

PROJECT: 5055
DATE: 06-28-2023
REVISED:

N

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Civil Engineers & Land Surveyors, P.C.
40 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

TEC LANDSCAPE DESIGN

PHASE:
PROGRESS

JOB #:	790
DRAWN BY:	JC
CHECKED BY:	JC
ISSUE DATE:	JULY 19, 2023

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DRAWING NAME:
PROPOSED LANDSCAPE PLAN

SCALE: 1" = 20'-0"

SHEET:
SP.01

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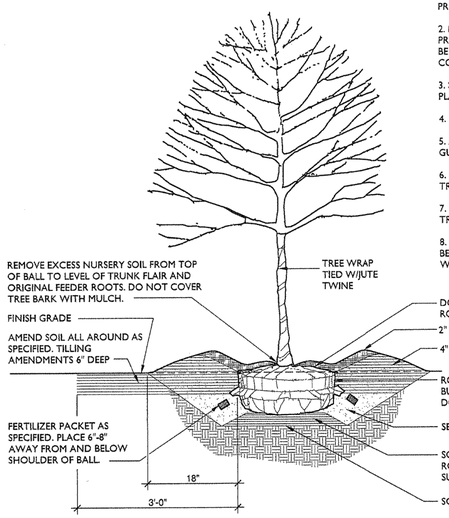

TYPICAL TREE PIT

1. REPORT POORLY DRAINING SOIL CONDITIONS TO ARCHITECT FOR HIS DIRECTION PRIOR TO PREPARATION AND PLANTING.

2. NO STOCK WRAPPED AND TIED WITH PLASTIC, PRESERVED OR NON-BIODEGRADABLE MATERIALS IS TO BE INSTALLED ON THIS JOB. REMOVE SUCH MATERIALS COMPLETELY.

3. SCARIFY ROOTBALLS OF CONTAINER STOCK BEFORE PLANTING.

4. PRUNE AS SPECIFIED AND DIRECTED BY ARCHITECT.

5. APPLY BIOSTIMULANT, WATER, MULCH, WRAP AND GUY WITHOUT DELAY.

6. SEE DETAIL 4/L-501 FOR STAKING AND GUYING OF TREES.

7. INSTALL EVERGREEN TREES SIMILARLY EXCEPT DELETE TREE WRAP.

8. WHERE SHRUBS ARE LOCATED OUTSIDE OF PLANTS BED INSTALL IN PITS SIMILARLY EXCEPT DELETE TREE WRAP, GUYING AND STAKING.

PROPOSED PLANT MATERIAL:

	Quant.	Botanical/common	size	mature
TREES:	3	Amelanchier Cumulus / Shadblow	2.5"-3" cal.	20'
	3	Prunus Okame / Okame Cherry	2.5"-3" cal.	25'
SHRUBS:	60	Justin Brouwers Boxwood	2 gal.	2'
GROUNDCOVER				
	300	Creeping Lily Turf	4" pot	6" o.c.
	48	Juniperus Chinensis Sargenti	3 gal.	36" o.c.
	250	Perennials: native varieties	1 gal.	18" o.c

NOTES:

All groundcover to start 18" from all planting bed edges and hard surfaces.
All material to be field determined by TEC.
All planting areas to receive 3" of a cedar mulch after planting.
All plant materials are subject to approval by TEC at the site.
Prior to start, contractor shall thoroughly review the drawing and project site and familiarize himself with all existing conditions and features.
Contractor to maintain any erosion control and sediment control that has been laid out until all disturbed areas have been seeded or have had wood chips or mulch applied.
All grading and bermed areas will be field determined by TEC and will be formed out of clean gravel and topsoil. Lawn areas to receive 5" of topsoil and planting beds to receive 12" of topsoil.
All tree pruning and protection to be supervised by a licensed arborist.
Contractor to locate all underground utilities prior to start and will also notify TEC of any damage to any underground wires or piping.

LYME'S
SENIOR CENTER
OLD LYME, CONNECTICUT

LANDSCAPE PLAN : LP-1
TEC LANDSCAPE DESIGN, INC.
JOHN W. CUNNINGHAM
62 WALL STREET
MADISON, CONNECTICUT
203.245.4295
JOHN@TECLANDSCAPE.COM

SCALE 1"= 20'
PROJECT: 5055
DATE: 6-28-2023
REVISED:

NOTES: All final elevations and dimensions of planting areas will be outlined for contractor prior to commencement.
All planting area boundaries and elevations to be field determined.
All plant material will be selected by and field determined by TEC.
Please refer to engineer's plan for all final elevations and layout of all proposed construction and drainage.

This plan is for graphic representation of the **landscape** only. Refer to civil and site drawings for all information regarding clearing limits, drainage, exact location of walkways, driveways and proposed construction.

N

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TEC LANDSCAPE DESIGN

PHASE: PROGRESS

JOB #: 790
DRAWN BY: JC
CHECKED BY: JC
ISSUE DATE: JULY 19, 2023

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SCALE: 1" = 20'-0"

SHEET: SP.02

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