PROPOSED

Croton-on-Hudson
Harmon Firehouse Station #3 & EMS
Addition / Alterations

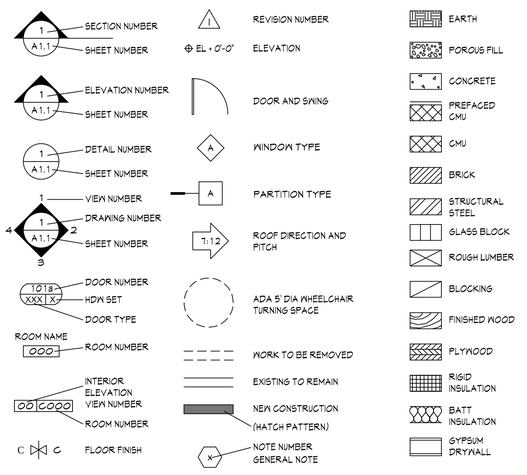
30 Wayne Street
Croton-On-Hudson
New York 10520

ABBREVIATIONS

ABV	ABOVE
A.C.T.	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
ADA	AMERICANS DISABILITY ACT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE/ALTERNATIVE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AVG	AVERAGE
BLKG	BLOCKING
BD	BOARD
BC	BRICK COURSE
BLDG	BUILDING
CB	CATCH BASIN
CL	CENTERLINE
CER	CERAMIC
CT	CERAMIC TILE
CLO	CLOSET
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
D	DEPTH
DETL	DETAIL
DIA	DIAMETER
DR	DOOR
DN	DOWN
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
ELEC	ELECTRICAL
EC	ELECTRICAL CONTRACTOR
EL/ELEV	ELEVATION
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EF	EXHAUST FAN
EX	EXISTING
ETR	EXISTING TO REMAIN
EJ	EXPANSION JOINT
EXT	EXTERIOR
FIN.	FINISH
FF	FINISH FLOOR
FE	FIRE EXTINGUISHER
FL	FLOOR
FT	FOOT/FEET
FTG	FOOTING
FDN	FOUNDATION
FR	FRAME
GALV	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
HDW	HARDWARE
H/HT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
IN	INCH
INCL	INCLUDE
INS	INSULATION
INT	INTERIOR
JC	JANITOR'S CLOSET
JT	JOINT
LAV	LAVATORY
LH	LEFT HAND
L	LENGTH
MFGR	MANUFACTURER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECH, ELEC, PLUMB
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MNTG	MOUNTING
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OVHD	OVERHEAD
PR	PAIR
PART.	PARTIAL
PH	PHASE
PLUMB	PLUMBING
PC	PLUMBING CONTRACTOR
PLYND	PLYNOOD
POLY	POLYETHYLENE
PROJ	PROJECT
RD	ROUND
RE	REFER
REINF	REINFORCEMENT
REQD	REQUIRED
RH	RIGHT HAND
RM	ROOM
R.O.B.	RUN OF BANK
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SK	SKETCH
SC	SOLID CORE
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT/FEET
SSMR	STANDING SEAM METAL ROOF
STL	STEEL
STG	STORAGE
STRUCT	STRUCTURAL
SYMB	SYMBOLS
TEMP	TEMPORARY
TK	THICK
TOIL	TOILET
T&G	TONGUE & GROOVE
T.O.	TOP OF
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VB	VAPOR BARRIER
VIF	VERIFY IN FIELD
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
WWF	WELDED WIRE FABRIC
W	WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD

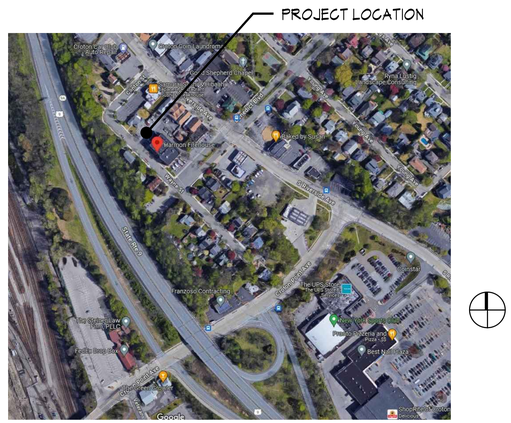
SYMBOLS & MAT'LS.

SYMBOLS LEGEND:



MATERIALS LEGEND:

LOCATION MAP



GENERAL NOTES

1. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO ACCOMPLISH A COMPLETE PROJECT. ANYTHING REASONABLY IMPLIED OR INTENDED SHALL BE INCLUDED. THE WORK INCLUDED CONSISTS OF ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE PROJECT LEAVING ALL WORK CLEAN AND READY FOR USE. IF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS ARE FOUND IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY, ASSUME THE HIGHER QUALITY WORK AND REFRAIN FROM STARTING / COMPLETING SUCH WORK, OR DEPENDENT WORK, UNTIL CLARIFIED BY THE ARCHITECT AND TOLD TO PROCEED.
2. EACH CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS FOR COMPLETE UNDERSTANDING AND KNOWLEDGE OF THE WORK. ALL WORK SHALL BE DONE BY REQUIRED LICENSED CONTRACTORS IN COMPLIANCE WITH INDUSTRY STANDARDS AND ALL CODE REQUIREMENTS. ALL WORK SHALL BE INSTALLED TRUE, PLUMB, SQUARE, LEVEL AND IN PROPER ALIGNMENT. JOB SITE SAFETY IS THE RESPONSIBILITY OF EACH CONTRACTOR.
3. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE BUILDING AND SITE PRIOR TO COMMENCING WORK. VERIFY CLEARANCES FOR FLUES, VENTS, CHASES, SOFFITS, FIXTURES, ETC. BEFORE ANY CONSTRUCTION, ORDERING, OR INSTALLATION OF ANY ITEMS OF WORK. NOTIFY ARCHITECT SHOULD DISCREPANCIES OCCUR PRIOR TO PERFORMING WORK.
4. DIMENSIONS ARE TO EDGE OF SLAB, FACE OF STUD, DOOR/WINDOW OPENING, CENTER OF PLUMBING FIXTURE, UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS TAKE PRECEDENCE. DO NOT SCALE DRAWINGS.
5. DETAILS AND NOTES ARE TYPICAL. SIMILAR DETAILS AND NOTES APPLY IN SIMILAR CONDITIONS.
6. UNTIL PERMANENT FIRE PROTECTION NEEDS ARE MET, INSTALL FIRE EXTINGUISHERS PER CODE TO PROVIDE TEMPORARY FIRE PROTECTION. OBTAIN APPROVAL OF THE BUILDING AND FIRE DEPARTMENTS AND THE ARCHITECT PRIOR TO INSTALLATION.
7. INSTALL ALL FIXTURES, EQUIPMENT AND MATERIAL PER MANUFACTURER'S RECOMMENDATIONS.

PROJECT TEAM

ARCHITECT:

SULLIVAN ARCHITECTURE P.C.
31 MAMARONECK AVENUE
WHITE PLAINS, NY 10601
(914) 761-6006

STRUCTURAL ENGINEER:

CONLON ENGINEERING, LLC
246 FEDERAL ROAD, SUITE B23
BROOKFIELD, CT 06804
(203) 740-0990

DRAWINGS LIST

ARCHITECTURAL:

STRUCTURAL:

Sullivan Architecture, P.C.
31 Mamaroneck Avenue
White Plains, New York 10601
914-761-6006 (F) 914-761-4919
John P. Sullivan, FAIA - Lisc. # 017185 Registered through 4/30/24

Date	Issue
1/18/2024	CLIENT REVIEW SET
4/8/2024	CLIENT REVIEW SET
5/7/24	CONSTRUCTION SET

I herby state to the best of my professional knowledge and abilities that the proposed building design represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Current New York State Energy Conservation Construction Code and adopted Stretch Code. The signature and seal on such documents attests to the above statement.

It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter an item in any way. If an item bearing the seal of an architect is altered, the altering architect shall affix to his item the seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

Project Title

Croton-on-Hudson
Harmon Firehouse
Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

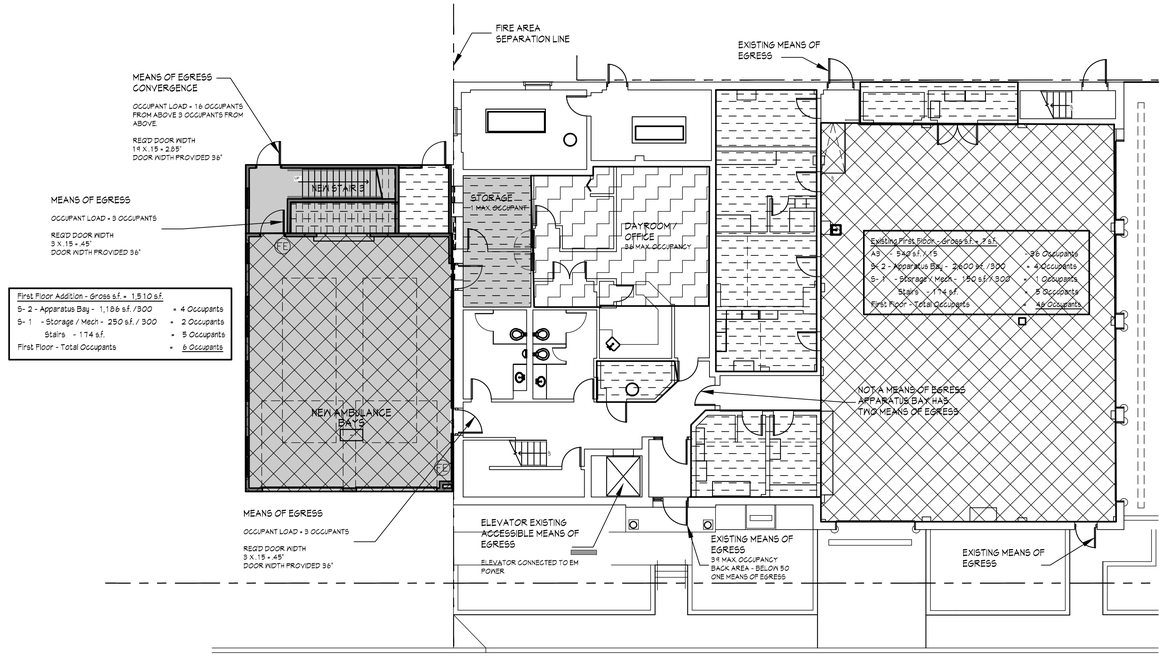
TITLE SHEET

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

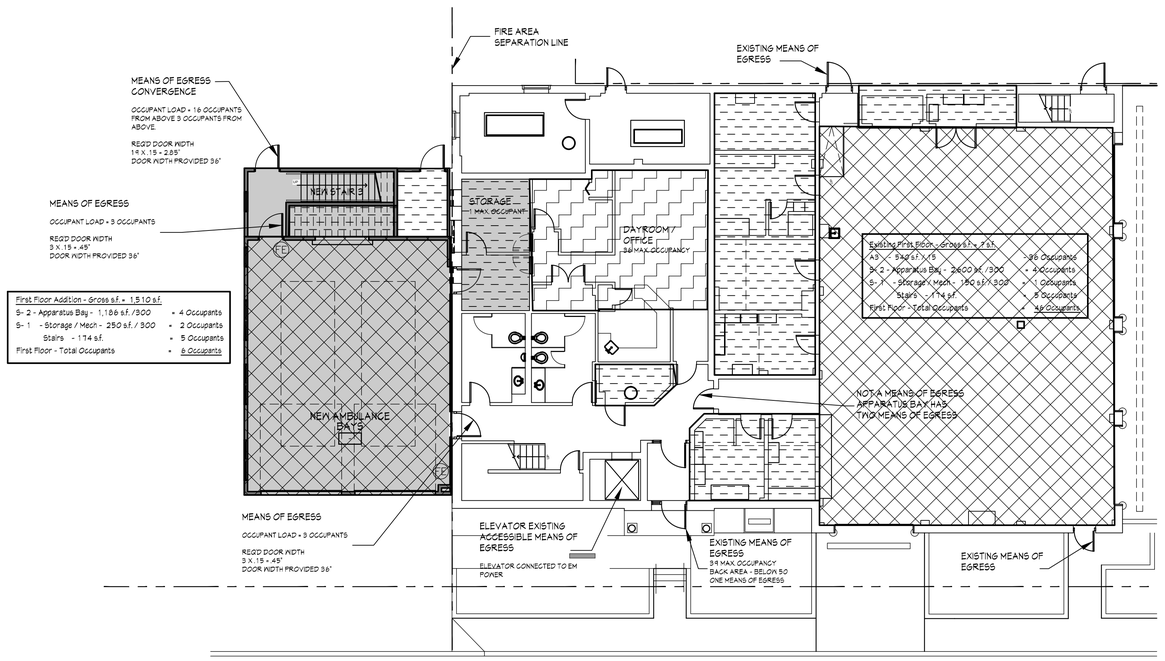
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A1.0



2 SECOND FLOOR LIFE SAFTEY PLAN
3/32" = 1'-0"



1 FIRST FLOOR LIFE SAFTEY PLAN
3/32" = 1'-0"

OCCUPANCY AREAS

- BUSNIESS AREA
- ASSEMBLY (OCCUPANCY A-3)
- ACCESSORY STORAGE / MECH & ELECTRICAL AREAS
- S-2

LEGEND

- NEW ADDITION
- FEC — RECESSED FIRE EXTINGUISHER CABINET SEE SPECIFICATIONS
- FE — WALL MOUNTED PORTABLE FIRE EXTINGUISHER

Code Analysis:

PROJECT SCOPE:

The project is proposing an addition to the existing building and creating a mixed use building, but occupancies are separated as a mixed use building as per NYS Building Code.

Summary of - Existing and Proposed

First Floor 1,510 s.f.
Second Floor 1,510 s.f.
Total = 3,020 s.f.

List of applicable State Codes, Reference Codes and Standards:

2020 Building Code of New York State
2020 NYStretch Energy Code - 2018 IECC
2020 Fire Code of New York State
2020 Property Maintenance Code of New York State
2020 Mechanical Code of New York State
2020 Plumbing Code of New York State
2020 Fuel Gas Code of New York State
2020 Energy Conservation Construction Code
2020 New York State Supplement
NFPA 70 (National Electrical Code)
National Fire Underwriter Code
ICC/ANSI A117.1-2009 Accessible and Usable Buildings and Facilities

CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE
Comply with applicable sections of this Chapter including;

302.1Occupancy classification.
Comply with applicable sections of this Chapter including;

Occupancy classification is the formal designation of the primary purpose of the building, structure or portion thereof. Structures shall be classified into one or more of the occupancy groups listed in this section based on the nature of the hazards and risks to building occupants generally associated with the intended purpose of the building or structure. An area, room or space that is intended to be occupied at different times for different purposes shall comply with all applicable requirements associated with such potential multipurpose. Structures containing multiple occupancy groups shall comply with Section 508. Where a structure is proposed for a purpose that is not specifically listed in this section, such structure shall be classified in the occupancy it most nearly resembles based on the fire safety and relative hazard.

Assembly (see Section 303): Groups A-3
Business (see Section 304): Group B.
Storage (see Section 311): Groups S- 1.
Storage (see Section 311): Groups S-2.

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS
Comply with applicable sections of this Chapter including;

504.1General.
The height, in feet, and the number of stories of a building shall be determined based on the type of construction, occupancy classification and whether there is an automatic sprinkler system installed throughout the building.

504.2Mixed occupancy.
In a building containing mixed occupancies in accordance with Section 508, no individual occupancy shall exceed the height and number of story limits specified in this section for the applicable occupancies.

504.3Height in feet.
The maximum height, in feet, of a building shall not exceed the limits specified in Table 504.3. Table 504.3 - Occupancy B - Non Sprinklered - Type IIB - 55'-0"

504.4Number of stories.
The maximum number of stories of a building shall not exceed the limits specified in Table 504.4.
Table 504.4 - Occupancy B - Sprinklered - Type IIB - 3 stories

505.2.2Means of egress.
The means of egress for mezzanines shall comply with the applicable provisions of Chapter 10.

506.2Allowable area determination.
The allowable area of a building shall be determined in accordance with the applicable provisions of Sections 506.2.1 through 506.2.4 and Section 506.3. Table 506.2 - (NS) Non Sprinklered - Type IIB - 2 stories - 23,000 s.f.

508.4Separated occupancies.
Buildings or portions of buildings that comply with the provisions of this section shall be considered as separated occupancies.
TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES
B to S-2 - 2 hour required

CHAPTER 6 - TYPES OF CONSTRUCTION
Comply with applicable sections of this Chapter including;

Group B (table 601) - Type IIB Construction w/ No Sprinklers
Primary Structural frame - 0 hr.
Bearing Walls - 0 hr. (Exterior)
Bearing Walls - 0 hr. (Interior)
Non-bearing Walls - 0 hr. (Interior)
Floor Construction - 0 hr.
Roof Construction - 0 hr.

Doors in walls noted above to be rated as per code and have rated labels accordingly.

602.2Types I and II.
Types I and II construction are those types of construction in which the building elements listed in Table 601 are of noncombustible materials, except as permitted in Section 603 and elsewhere in this code.

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John P. Sullivan, FAIA - Lisc. # 017185 Registered through 4/30/24

Date	Issue
1/18/2024	CLIENT REVIEW SET
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I herby state to the best of my professional knowledge and abilities that the proposed building design represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Current New York State Energy Conservation Construction Code and adopted Stretch Code. The signature and seal on such documents attests to the above statement.

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title **LIFE SAFETY CODE REVIEW**

Project No.	202222
Date	7.21.2023
Scale	AS NOTED
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No. **A-1.1**

CHAPTER 6 - TYPES OF CONSTRUCTION

Comply with applicable sections of this Chapter including;

Group B (table 601) - Type IIB Construction w/ Sprinklers

Type IIB - with added sprinklers
Primary Structural frame - 0 hr.
Bearing Walls - 0 hr. (Exterior)
Bearing Walls - 0 hr. (Interior)
Non-bearing Walls - 0 hr. (Interior)
Floor Construction - 0 hr.
Roof Construction - 0 hr.

Doors in walls noted above to be rated as per code and have rated labels accordingly.

602.2Types I and II.

Types I and II construction are those types of construction in which the building elements listed in Table 601 are of noncombustible materials, except as permitted in Section 603 and elsewhere in this code.

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

Comply with applicable sections of this Chapter including;

SECTION 707 - FIRE BARRIERS

707.1General.

Fire barriers installed as required elsewhere in this code or the Fire Code of New York State shall comply with this section.

707.3.1Shaft enclosures.

The fire-resistance rating of the fire barrier separating building areas from a shaft shall comply with Section 713.4.

707.3.5Horizontal exit.

The fire-resistance rating of the separation between building areas connected by a horizontal exit shall comply with Section 1026.1.

707.3.6Atriums.

The fire-resistance rating of the fire barrier separating atriums shall comply with Section 404.6.

707.3.7Incidental uses.

The fire barrier separating incidental uses from other spaces in the building shall have a fire-resistance rating of not less than that indicated in Table 509.

707.3.9Separated occupancies.

Where the provisions of Section 508.4 are applicable, the fire barrier separating mixed occupancies shall have a fire-resistance rating of not less than that indicated in Table 508.4 based on the occupancies being separated.

SECTION 712 - VERTICAL OPENINGS

712.1General.

Each vertical opening shall comply in accordance with one of the protection methods in Sections 712.1.1 through 712.1.16.

712.1.1Shaft enclosures.

Vertical openings contained entirely within a shaft enclosure complying with Section 713 shall be permitted.

713.4Fire-resistance rating.

Shaft enclosures shall have a fire-resistance rating of not less than than 1 hour where connecting less than two stories. The number of stories connected by the shaft enclosure shall include any basements but not any mezzanines. Shaft enclosures shall have a fire-resistance rating not less than the floor assembly penetrated, but need not exceed 2 hours. Shaft enclosures shall meet the requirements of Section 703.2.1.

CHAPTER 8 - INTERIOR FINISHES

Comply with applicable sections of this Chapter including;

802.1Interior wall and ceiling finish.

The provisions of Section 803 shall limit the allowable fire performance and smoke development of interior wall and ceiling finish materials based on occupancy classification.

SECTION803-WALL AND CEILING FINISHES

802.5Application.

Combustible materials shall be permitted to be used as finish for walls, ceilings, floors and other interior surfaces of buildings.

803.1General.

Interior wall and ceiling finish materials shall be classified for fire performance and smoke development in accordance with Section 803.1.1 or 803.1.2, except as shown in Sections 803.1.3 through 803.15. Materials tested in accordance with Section 803.1.1 shall not be required to be tested in accordance with Section 803.1.2.

803.1.1Interior wall and ceiling finish materials tested in accordance with NFPA 286.

Interior wall and ceiling finish materials shall be classified in accordance with NFPA 286 and comply with Section 803.1.1.1. Materials complying with Section 803.1.1.1 shall be considered to also comply with the requirements of Class A.

Interior and Ceiling Finish Requirements by Occupancy - (table 803.13)
Class B - Interior exit stairways
Class C - Corridors
Class C - Rooms and Enclosed spaces

SECTION804 - INTERIOR FLOOR FINISH

804.1General.

Interior floor finish and floor covering materials shall comply with Sections 804.2 through 804.4.2.

Exception: Floor finishes and coverings of a traditional type, such as wood, vinyl, linoleum or terrazzo, and resilient floor covering materials that are not comprised of fibers.

804.2Classification.

Interior floor finish and floor covering materials required by Section 804.4.2 to be of Class I or II materials shall be classified in accordance with ASTM E648 or NFPA 253. The classification referred to herein corresponds to the classifications determined by ASTM E648 or NFPA 253 as follows: Class I, 0.45 watts/cm2 or greater; Class II, 0.22 watts/cm2 or greater.

804.3Testing and identification.

Interior floor finish and floor covering materials shall be tested by an agency in accordance with ASTM E648 or NFPA 253 and identified by a hang tag or other suitable method so as to identify the manufacturer or supplier and style, and shall indicate the interior floor finish or floor covering classification in accordance with Section 804.2. Carpet-type floor coverings shall be tested as proposed for use, including underlayment. Test reports confirming the information provided in the manufacturer's product identification shall be furnished to the building official upon request.

804.4Interior floor finish requirements.

Interior floor covering materials shall comply with Sections 804.4.1 and 804.4.2 and interior floor finish materials shall comply with Section 804.4.2.

804.4.1Test requirement.

In all occupancies, interior floor covering materials shall comply with the requirements of the DOC FF-1 "pill test" (CPSC 16 CFR Part 1630) or with ASTM D2859.

804.4.2Minimum critical radiant flux.

In all occupancies, interior floor finish and floor covering materials in enclosures for stairways and ramps, exit passageways, corridors and rooms or spaces not separated from corridors by partitions extending from the floor to the underside of the ceiling shall withstand a minimum critical radiant flux. The minimum critical radiant flux shall be not less than Class I in Groups I-1, I-2 and I-3 and not less than Class II in Groups A, B, E, H, I-4, M, R-1, R-2 and S.

Exception: Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, Class II materials are permitted in any area where Class I materials are required, and materials complying with DOC FF-1 "pill test" (CPSC 16 CFR Part 1630) or with ASTM D2859 are permitted in any area where Class II materials are required.

SECTION 808 - ACOUSTICAL CEILING SYSTEMS

808.1Acoustical ceiling systems.

The quality, design, fabrication and erection of metal suspension systems for acoustical tile and lay-in panel ceilings in buildings or structures shall conform to generally accepted engineering practice, the provisions of this chapter and other applicable requirements of this code.

808.1.1.1Suspended acoustical ceilings.

Suspended acoustical ceiling systems shall be installed in accordance with the provisions of ASTM C635 and ASTM C636.

CHAPTER 9 - FIRE PROTECTION AND LIFE SAFETY SYSTEMS

Comply with applicable sections of this Chapter including;

CHAPTER 10 - MEANS OF EGRESS

Comply with applicable sections of this Chapter including;

1003.2Ceiling height.

The means of egress shall have a ceiling height of not less than 7 feet 6 inches (2286 mm) above the finished floor.

1003.4Slip-resistant surface.

Circulation paths of the means of egress shall have a slip-resistant surface and be securely attached.

1003.6Means of egress continuity.

The path of egress travel along a means of egress shall not be interrupted by a building element other than a means of egress component as specified in this chapter. Obstructions shall not be placed in the minimum width or required capacity of a means of egress component except projections permitted by this chapter. The minimum width or required capacity of a means of egress system shall not be diminished along the path of egress travel.

1003.7Elevators, escalators and moving walks.

Elevators, escalators and moving walks shall not be used as a component of a required means of egress from any other part of the building.

Exception: Elevators used as an accessible means of egress in accordance with Section 1009.4.

SECTION 1004 - OCCUPANT LOAD

1004.1Design occupant load.

In determining means of egress requirements, the number of occupants for whom means of egress facilities are provided shall be determined in accordance with this section.

Max. Floor Area Allowances per Occupant per Table 1004.5

Business Areas	150 gross
Assembly:	15 net - if over 750 s.f. of not 150 gross
Accessory Stor. / Mech.	300 gross
Garages	200 gross

Area / Occupant - Building Summary

See Plans

SECTION1005 - MEANS OF EGRESS SIZING

1005.3Required capacity based on occupant load.

The required capacity, in inches (mm), of the means of egress for any room, area, space or story shall be not less than that determined in accordance with Sections 1005.3.1 and 1005.3.2.

1005.3.1Stairways.

The capacity, in inches, of means of egress stairways shall be calculated by multiplying the occupant load served by such stairways by a means of egress capacity factor of 0.3 inch (7.6 mm) per occupant. Where stairways serve more than one story, only the occupant load of each story considered individually shall be used in calculating the required capacity of the stairways serving that story.

1005.3.2Other egress components.

The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch (5.1 mm) per occupant.

1005.4Continuity.

The minimum width or required capacity of the means of egress required from any story of a building shall not be reduced along the path of egress travel until arrival at the public way.

SECTION 1006 -NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

1006.1General.

The number of exits or exit access doorways required within the means of egress system shall comply with the provisions of Section 1006.2 for spaces, including mezzanines,

1006.2Egress from spaces.

Rooms, areas or spaces, including mezzanines, within a story or basement shall be provided with the number of exits or access to exits in accordance with this section.

1006.2.1Egress based on occupant load and common path of egress travel distance.

Two exits or exit access doorways from any space shall be provided where the design occupant load or the common path of egress travel distance exceeds the values listed in Table 1006.2.1. The cumulative occupant load from adjacent rooms, areas or spaces shall be determined in accordance with Section 1004.2.

1006.3.2Egress based on occupant load.

Each story and occupied roof shall have the minimum number of separate and distinct exits, or access to exits, as specified in Table 1006.3.2. A single exit or access to a single exit shall be permitted in accordance with Section 1006.3.3. The required number of exits, or exit access stairways or ramps providing access to exits, from any story or occupied roof shall be maintained until arrival at the exit discharge or a public way.

TABLE 1006.3.2
MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY
1-500 - 2 Exits

MEANS OF EGRESS ILLUMINATION

1008.2Illumination required.

The means of egress serving a room or space shall be illuminated at all times that the room or space is occupied.

1008.2.1Illumination level under normal power.

The means of egress illumination level shall be not less than 1 footcandle (11 lux) at the walking surface.

1008.3Emergency power for illumination.

The power supply for means of egress illumination shall normally be provided by the premises' electrical supply.

1008.3.1 General.

In the event of power supply failure in rooms and spaces that require two or more means of egress, an emergency electrical system shall automatically illuminate all of the following areas:

1.Aisles.
2.Corridors.
3.Exit access stairways and ramps.

1008.3.2 Buildings.

In the event of power supply failure in buildings that require two or more means of egress, an emergency electrical system shall automatically illuminate all of the following areas:

1.Interior exit access stairways and ramps.
2.Interior and exterior exit stairways and ramps.
3.Exit passageways.
4.Vestibules and areas on the level of discharge used for exit discharge in accordance with Section 1028.1.
5.Exterior landings as required by Section 1010.1.6 for exit doorways that lead directly to the exit discharge.

1008.3.3Rooms and spaces.

In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:
1.Electrical equipment rooms.
2.Fire command centers.
3.Fire pump rooms.
4.Generator rooms.
5.Public restrooms with an area greater than 300 square feet (27.87 m2).

1009.4Elevators.

In order to be considered part of an accessible means of egress, an elevator shall comply with Sections 1009.4.1 and 1009.4.2.

1009.4.1Standby power.

The elevator shall meet the emergency operation and signaling device requirements of Section 2.27 of ASME A17.1/CSA B44. Standby power shall be provided in accordance with Chapter 27 and Section 3003.

CHAPTER 11 - ACCESSIBILITY

Comply with applicable sections of this Chapter including;

CHAPTER 12 INTERIOR ENVIRONMENT:

Comply with applicable sections of this Chapter including;
See MEP Documents

CHAPTER 13 ENERGY EFFICIENCY:

Comply with applicable sections of this Chapter including;
See Com Check and MEP Documents.

CHAPTER 14 EXTERIOR WALLS:

Comply with applicable sections of this Chapter including;

CHAPTER 15 ROOF ASSEMBLIES AND ROOF TOP STRUCTURES:

Comply with applicable sections of this Chapter including;

504.1Wind resistance of roofs.

Roof decks and roof coverings shall be designed for wind loads in accordance with Chapter 16 and Sections 1504.2, 1504.3 and 1504.4.

1504.5 Edge securement for low-slope roofs.

Low-slope built-up, modified bitumen and single-ply roof system metal edge securement, except gutters, shall be designed and installed for wind loads in accordance with Chapter 16 and tested for resistance in accordance with Test Methods RE-1, RE-2 and RE-3 of ANSI/SPRI ES-1, except basic design wind speed, V, shall be determined from Figures 1609.3(1) through 1609.3(8) as applicable.

TABLE 1505.1. - MINIMUM ROOF COVERING CLASSIFICATION FOR TYPES OF CONSTRUCTION

1505.4 Class C roof assemblies.

Construction type IIB - Class C roof assemblies are those that are effective against light fire-test exposure. Class C roof assemblies and roof coverings shall be listed and identified as Class C by an approved testing agency.

CHAPTER 16 STRUCTURAL DESIGN:

Comply with applicable sections of this Chapter including;
See Consulting Structural Engineers Documents.

CHAPTER 17 SPECIAL INSPECTIONS:

Comply with applicable sections of this Chapter including;
SEE STATEMENT OF SPECIAL INSPECTIONS AND STRUCTURAL DOCUMENTS

CHAPTER 18 SOILS AND FOUNDATIONS:

Comply with applicable sections of this Chapter including;
See Consulting Civil Engineers Documents and See
Geotechnical Report and Boring Logs.

CHAPTER 19 CONCRETE:

Comply with applicable sections of this Chapter including;
See Consulting Structural Engineers Documents.

CHAPTER 20 ALUMINUM:

Comply with applicable sections of this Chapter including;

CHAPTER 21 MASONRY:

Comply with applicable sections of this Chapter including;

CHAPTER 22 STEEL:

Comply with applicable sections of this Chapter including;
See Consulting Structural Engineers Documents.

CHAPTER 23 WOOD: (AS APPLICABLE)

Comply with applicable sections of this Chapter including;
See Consulting Structural Engineers Documents.

CHAPTER 24 GLASS AND GLAZING:

Comply with applicable sections of this Chapter including;

CHAPTER 25 GYPSUM BOARD, GYPSUM PANEL PRODUCTS AND PLASTER:

Comply with applicable sections of this Chapter including;

CHAPTER 26 PLASTIC:

Comply with applicable sections of this Chapter including;

CHAPTER 27 ELECTRICAL:

Comply with applicable sections of this Chapter including;
See Consulting MEP Engineering Documents

CHAPTER 28 MECHANICAL SYSTEMS:

Comply with applicable sections of this Chapter including;
See Consulting MEP Engineering Documents

CHAPTER 29 PLUMBING SYSTEMS:

Comply with applicable sections of this Chapter including;
See Consulting MEP Engineering Documents

Sullivan Architecture, P.C.
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John P. Sullivan, FAIA - Lisc.# 017185 Registered through 4/30/24

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5/7/24	CONSTRUCTION SET

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

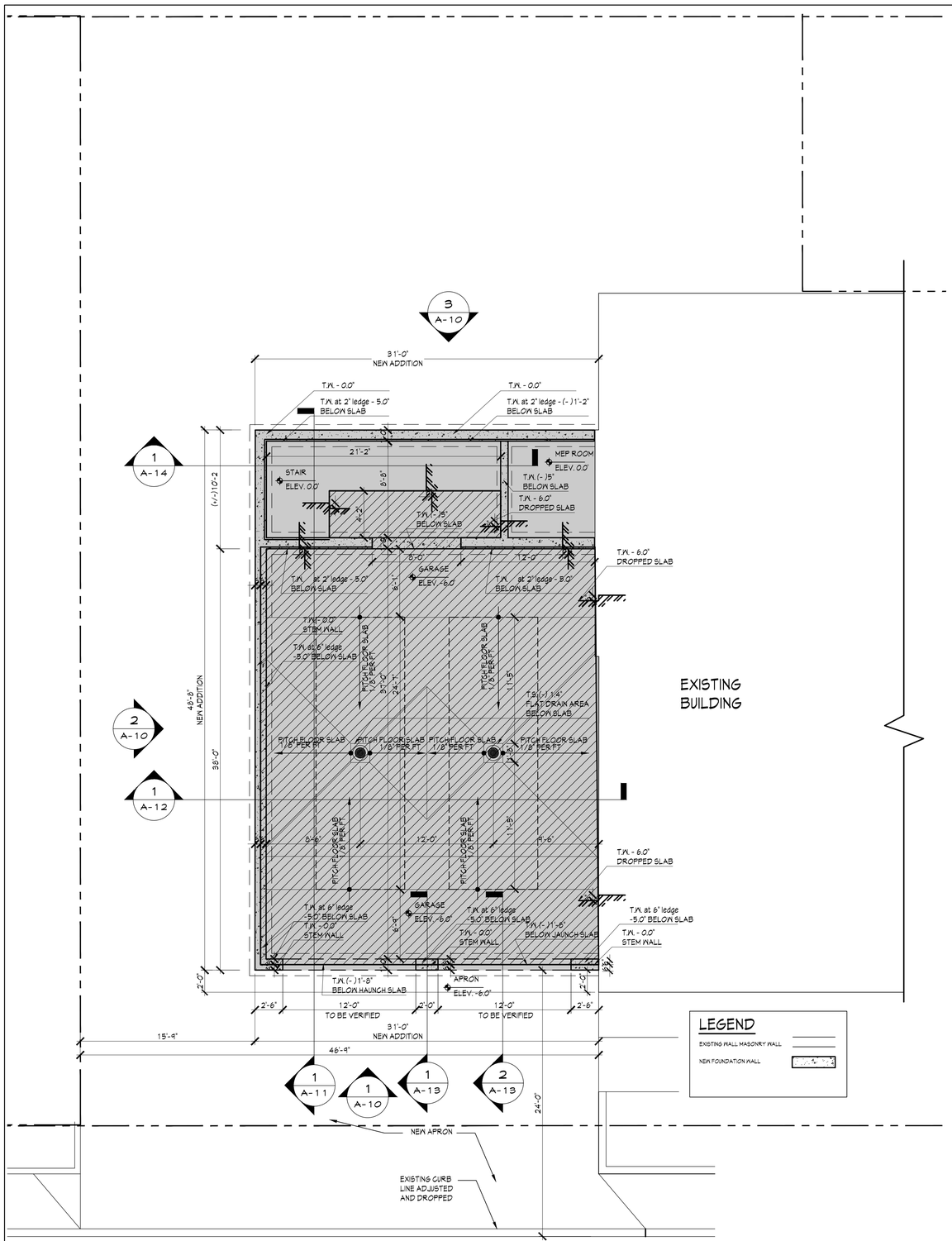
Drawing Title LIFE SAFETY CODE REVIEW

Project No.	202222
Date	7.21.2023
Scale	AS NOTED
Drawing by	KA
Checked by	

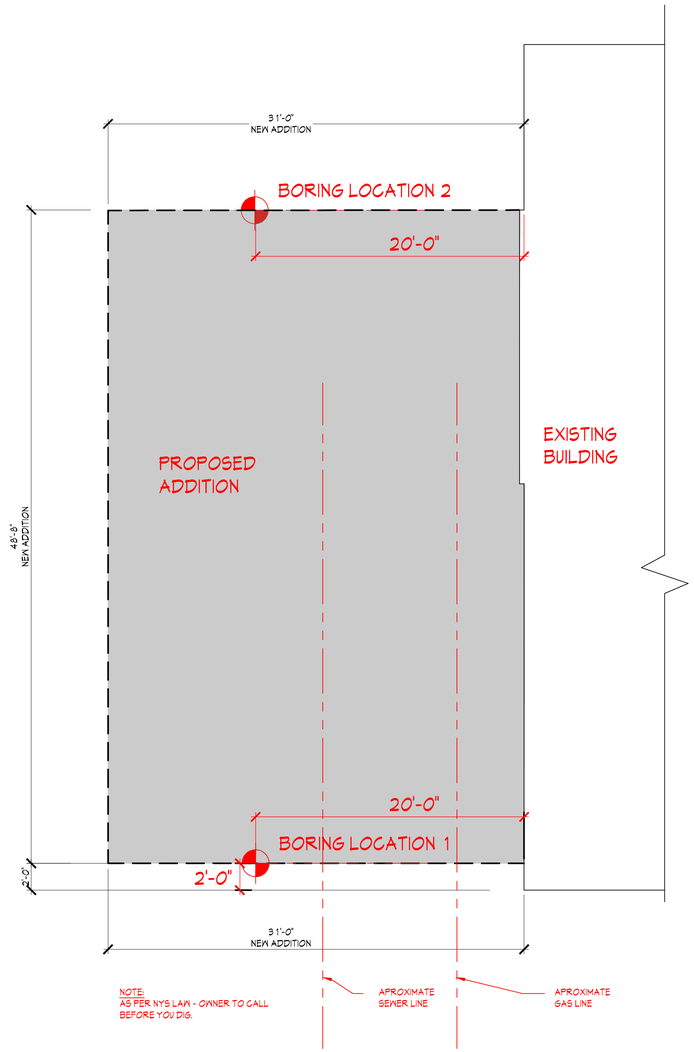
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-1.2



1 PROPOSED FOUNDATION PLAN
3/16" = 1'-0"



2 SITE BORING LOCATIONS
3/16" = 1'-0"

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

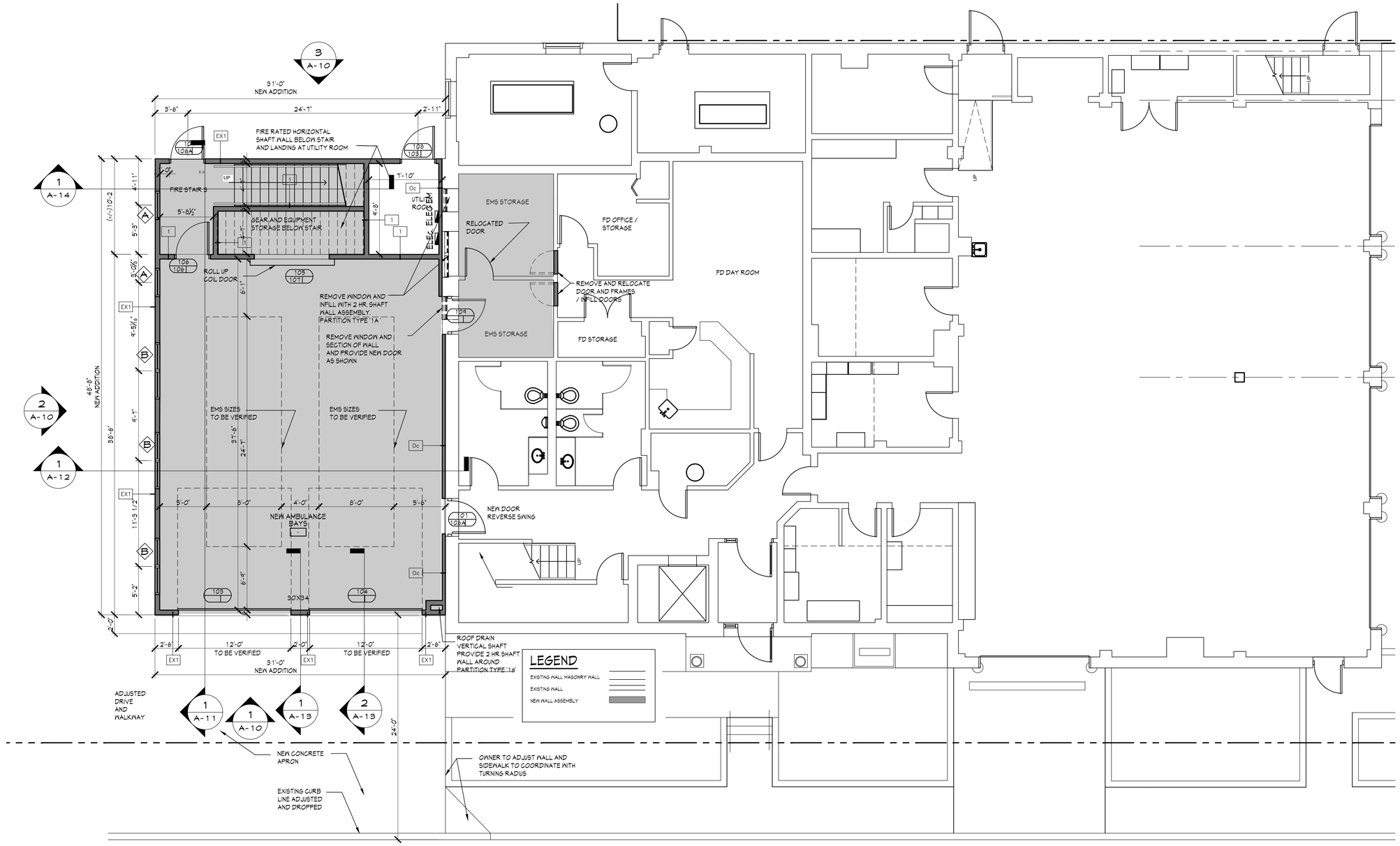
Drawing Title

FOUNDATION PLAN

Project No.	202222
Date	1.21.2023
Scale	
Drawing by	KA
Checked by	

Drawing No.

A-2.0



1 PROPOSED FIRST FLOOR PLAN
3/16" = 1'-0"

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

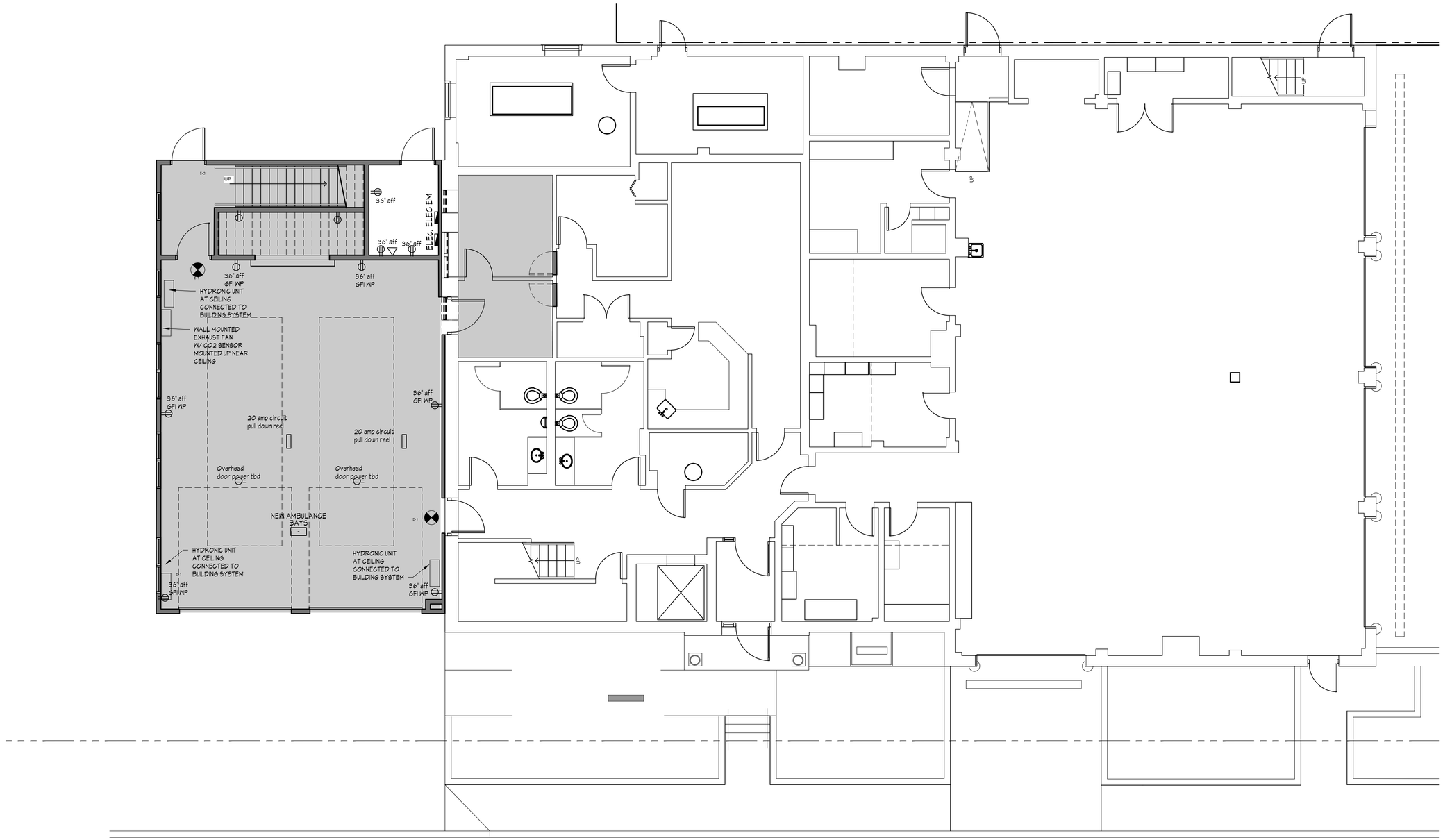
FIRST FLOOR PLAN

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN FAIA No. 011185 STATE OF NEW YORK

Drawing No.

A-3.0



1 PROPOSED FIRST FLOOR POWER/TELE/DATA PLAN
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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

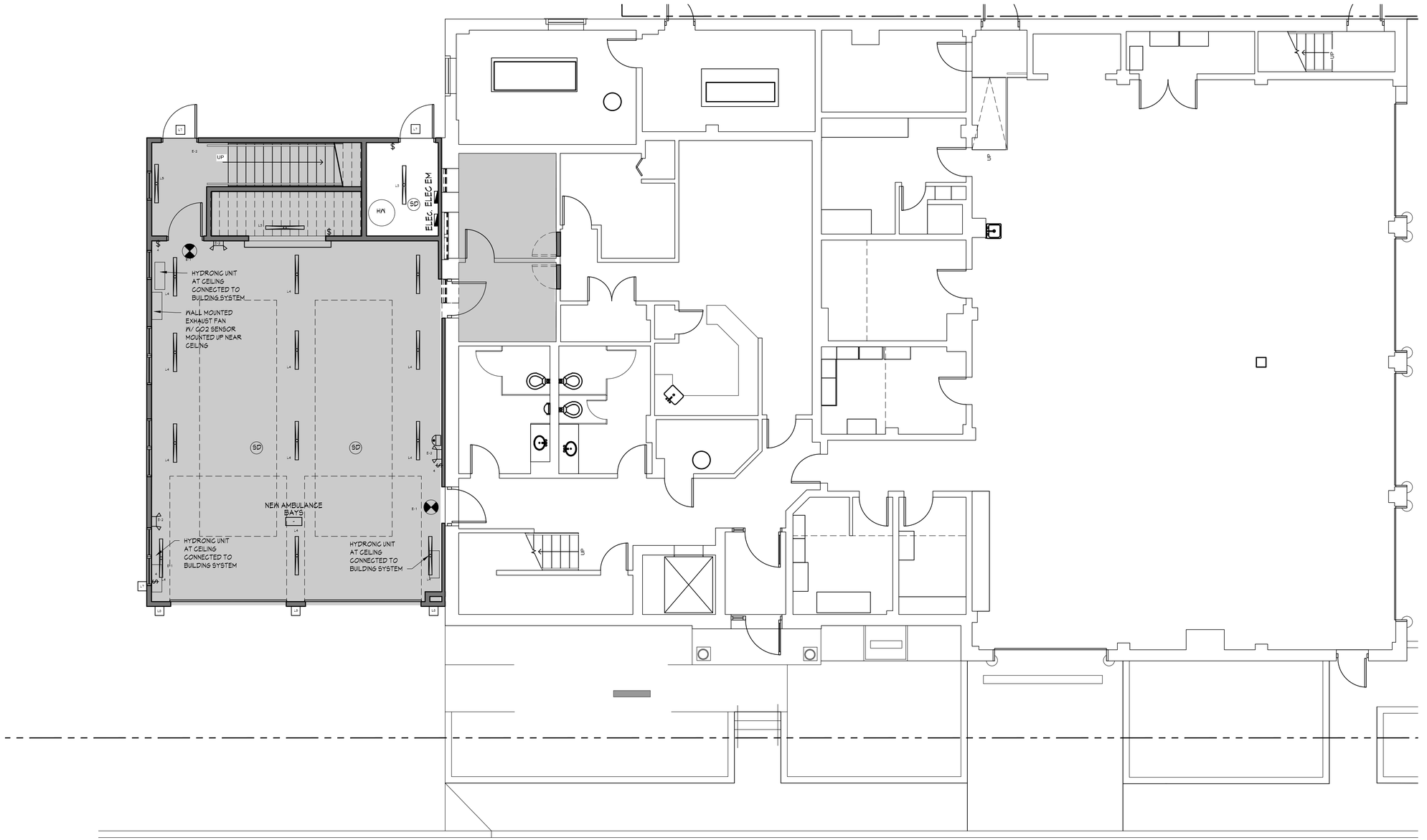
FIRST FLOOR POWER TELE DATA

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 011185 STATE OF NEW YORK

Drawing No.

A-4.0



CEILING FINISH LEGEND

PAINTED GWB
AS NOTED ON
FINSIH SCHEDULE
FLAT CEILING

ACOUSTICAL
GRID AND TILE AS
NOTED ON
FINSIH SCHEDULE
FLAT CEILING

NOTES:

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2. LIGHTS TO BE CENTERED BETWEEN WALLS, SOFFITS AND CEILING ELEMENTS, UON
3. COORDINATE ALL CONDUIT AND DRAG LINES FOR CEILING MOUNTED DEVICES. SEE POWER TELE PLAN AND ENGINEERING DOCUMENTS.

CEILING GENERAL NOTES

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LIGHTING FIXTURE SCHEDULE

NOTE: CIRCUITING IS BY ELECTRICIAN AND ALL POWER AND LIGHTING CONNECTED TO EM PANEL

SYMBOL	FIXTURE	TYPE/DESCRIPTION	PRODUCT INFORMATION	MANUFACTURER	REMARKS
○	L1	LIGHTOLIER - 5" SLIM SURAFCE	5SR8SOKTWZ10U	LIGHTOLIER	
▥	L2	DAY-BRITE RECESSED EVO GRID 2X2	2EVG3OL835 - 2 - D - UNV - DIM	DAY-BRITE	
▬	L3 - GLOSET	DAY-BRITE INDUSTRIAL 4FL LINEAR	FSX-4-4000-835-UNV-BLANK	DAY-BRITE	
▬	L4 - BAYS	DAY-BRITE INDUSTRIAL 4FL LINEAR	FSX-4-8000-835-UNV-BLANK	DAY-BRITE	
▭	L5 STAIRS	JAYLUM LED WALL MOUNTED SCONCE	JM - RL - 30L - 9 - 35 - 1D - UNV - STD-N-SUWA - 4	CORELITE	
▭	L6	MAXIM - SPEC VANITY	52000 - POLISHED CHROME	MAXIM	
▯	L7	MAXIM - PATHFINDER	52120PNC - BLACK FINISH	MAXIM	
▭	L8	MAXIM - LIGHTHOUSE	55866CLFTAR - BLACK FINISH W/ ACESSORY PHOTOCELL	MAXIM	CONTRACTOR TO PROVIDE COMPLIANT LED GREEN BULBS
✱	E-1	COOPER - SURE-LITES LPX SERIES	LPX 6 (WALL MOUNT)	COOPER	REFER TO RCP FOR DIRECTION CHEVRONS
⊓	E-2	COOPER - SURE-LITES	AP2SQLED30 EMERGENCY LIGHT	COOPER	

1 PROPOSED FIRST FLOOR PLAN
3/16" = 1'-0"

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

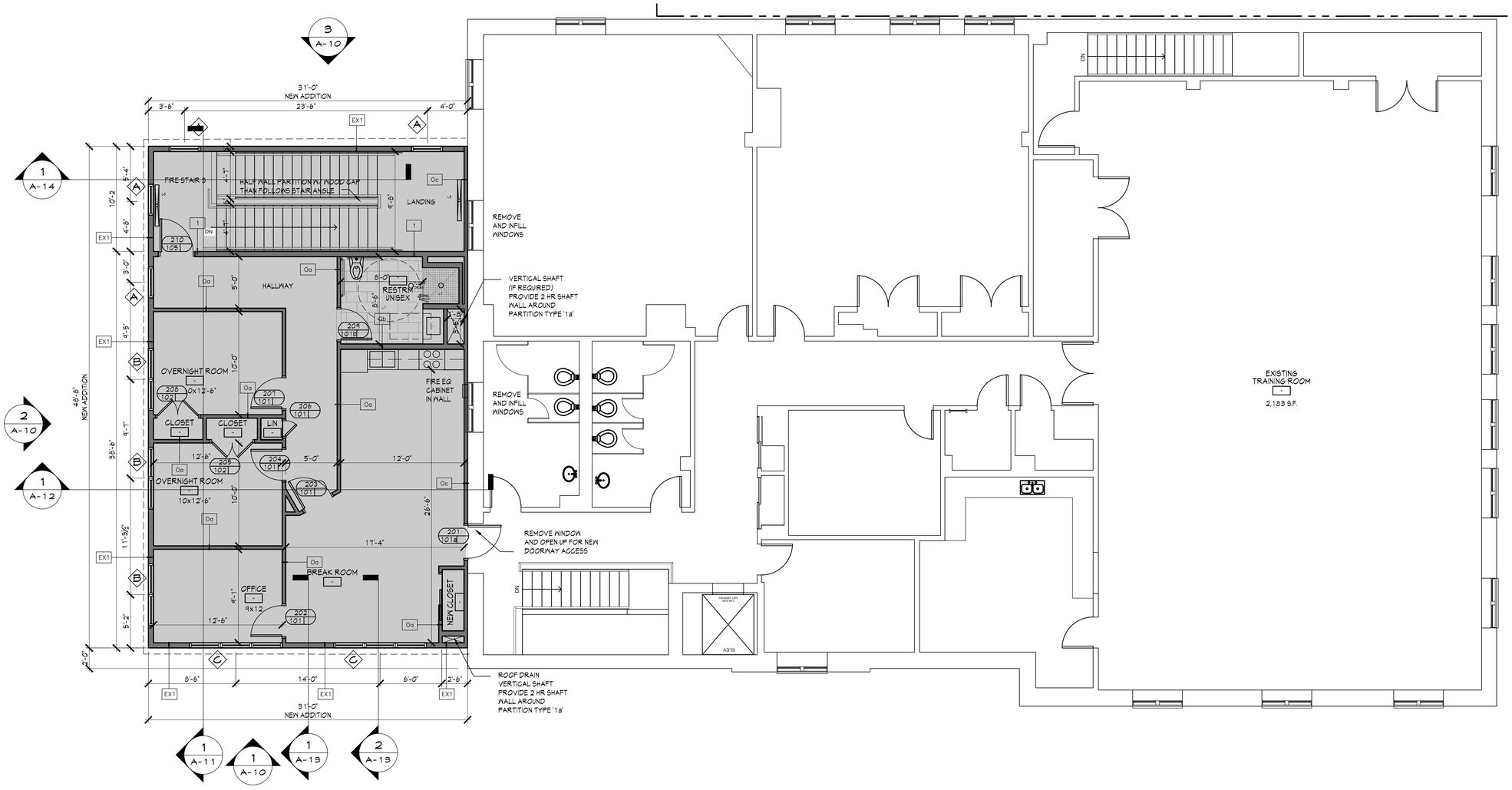
FIRST FLOOR
RCP PLAN

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-5.0



1 PROPOSED SECOND FLOOR PLAN
3/16" = 1'-0"

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

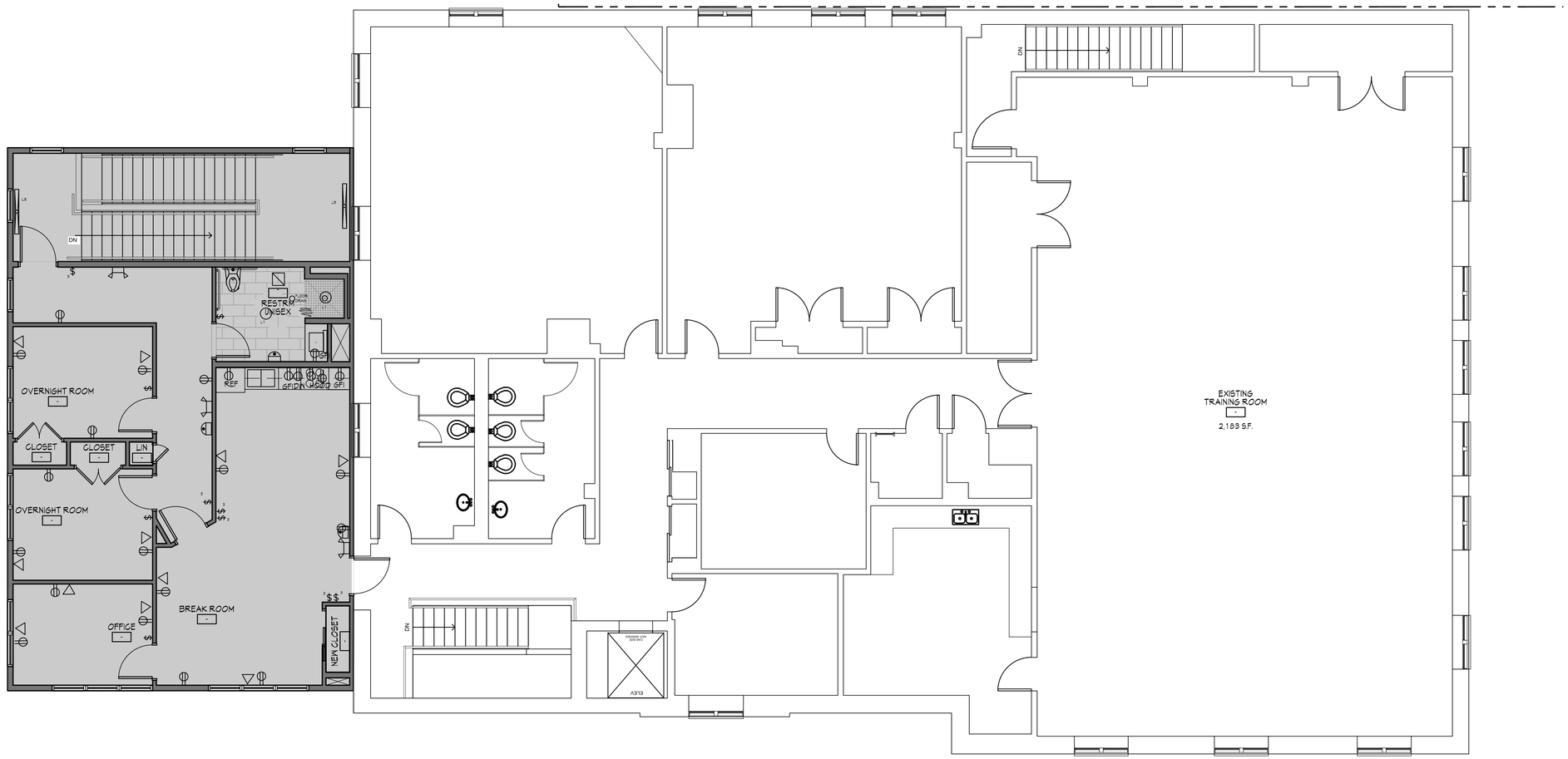
SECOND FLOOR PLAN

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-6.0



1 PROPOSED SECOND FLOOR POWER/TELE/DATA PLAN
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Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

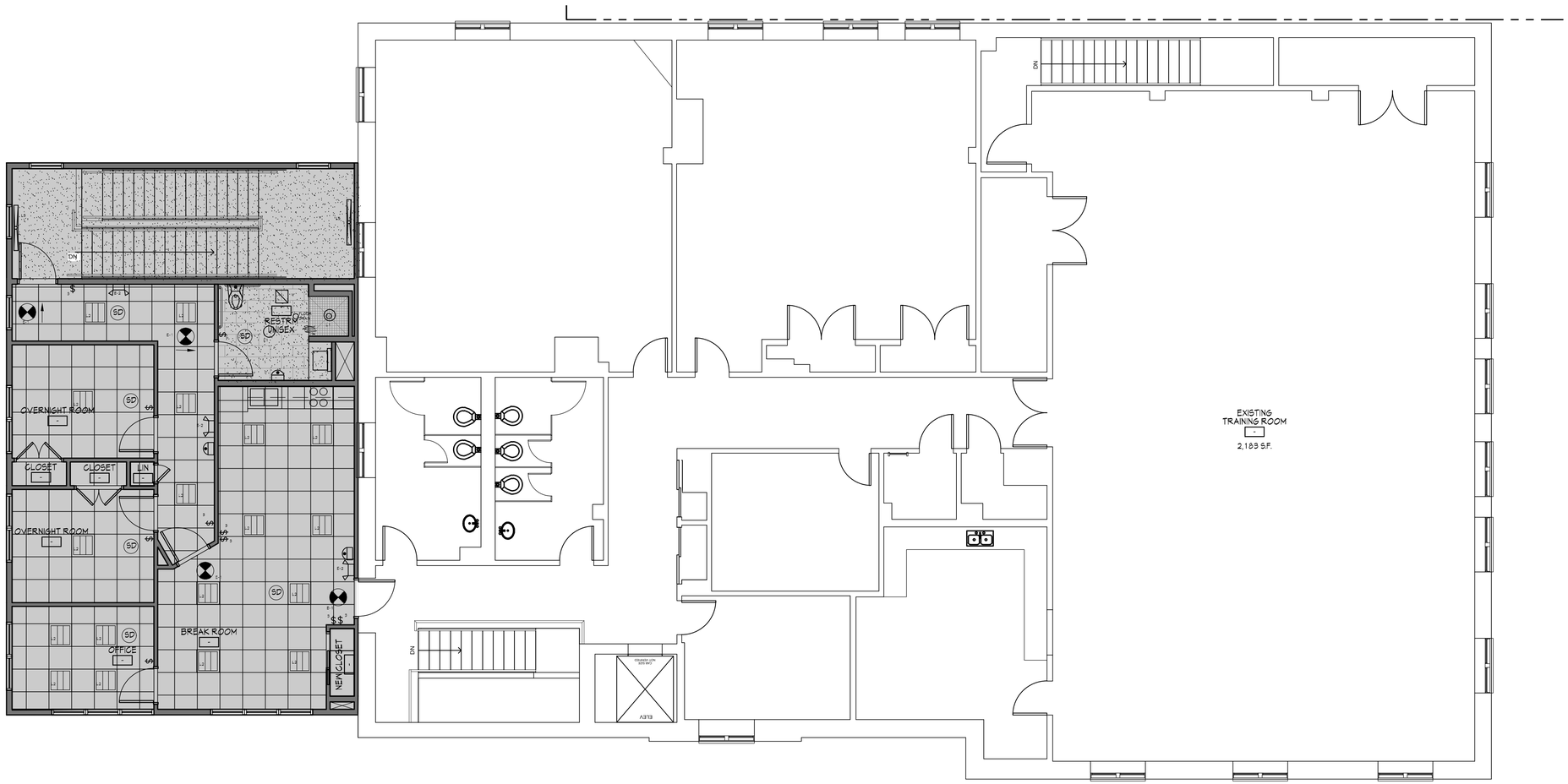
SECOND FLOOR POWER TELE DATA

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-7



CEILING FINISH LEGEND

PAINTED GWB AS NOTED ON FINSIH SCHEDULE FLAT CEILING

ACOUSTICAL GRID AND TILE AS NOTED ON FINSIH SCHEDULE FLAT CEILING

NOTES:

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LIGHTING FIXTURE SCHEDULE

NOTE: CIRCUITING IS BY ELECTRICIAN AND ALL POWER AND LIGHTING CONNECTED TO EM PANEL

SYMBOL	FIXTURE	TYPE/DESCRIPTION	PRODUCT INFORMATION	MANUFACTURER	REMARKS
	L1	LIGHTOLIER - 5" SLIM SURAFCE	5SR830K7WZ10U	LIGHTOLIER	
	L2	DAY-BRITE RECESSED EVO GRID 2X2	2EVG30L835 - 2 - D - UNV - DIM	DAY-BRITE	
	L3 CLOSET	DAY-BRITE INDUSTRIAL 4FL LINEAR	FSX-4-4000-835-UNV-BLANK	DAY-BRITE	
	L4 BAYS	DAY-BRITE INDUSTRIAL 4FL LINEAR	FSX-4-8000-835-UNV-BLANK	DAY-BRITE	
	L5 STAIRS	JAYLUM LED WALL MOUNTED SCONCE	JA - AL - 30L - 4 - 35 - 1D - UNV - STD-N-SWA -4	CORELITE	
	L6	MAXIM - SPEC VANITY	52000 - POLISHED CHROME	MAXIM	
	L7	MAXIM - PATHFINDER	52120PHC - BLACK FINISH	MAXIM	
	L8	MAXIM - LIGHTHOUSE	5866CLFTAR - BLACK FINISH W/ ACESSORY PHOTOCELL	MAXIM	CONTRACTOR TO PROVIDE COMPLIANT LED GREEN BULBS
	E-1	COOPER - SURE-LITES LPX SERIES	LPX 6 (WALL MOUNT)	COOPER	REFER TO RCP FOR DIRECTION CHEVRONS
	E-2	COOPER - SURE-LITES	AP2SGLED30 EMERGENCY LIGHT	COOPER	

1 PROPOSED SECOND FLOOR RCP PLAN
3/16" = 1'-0"

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

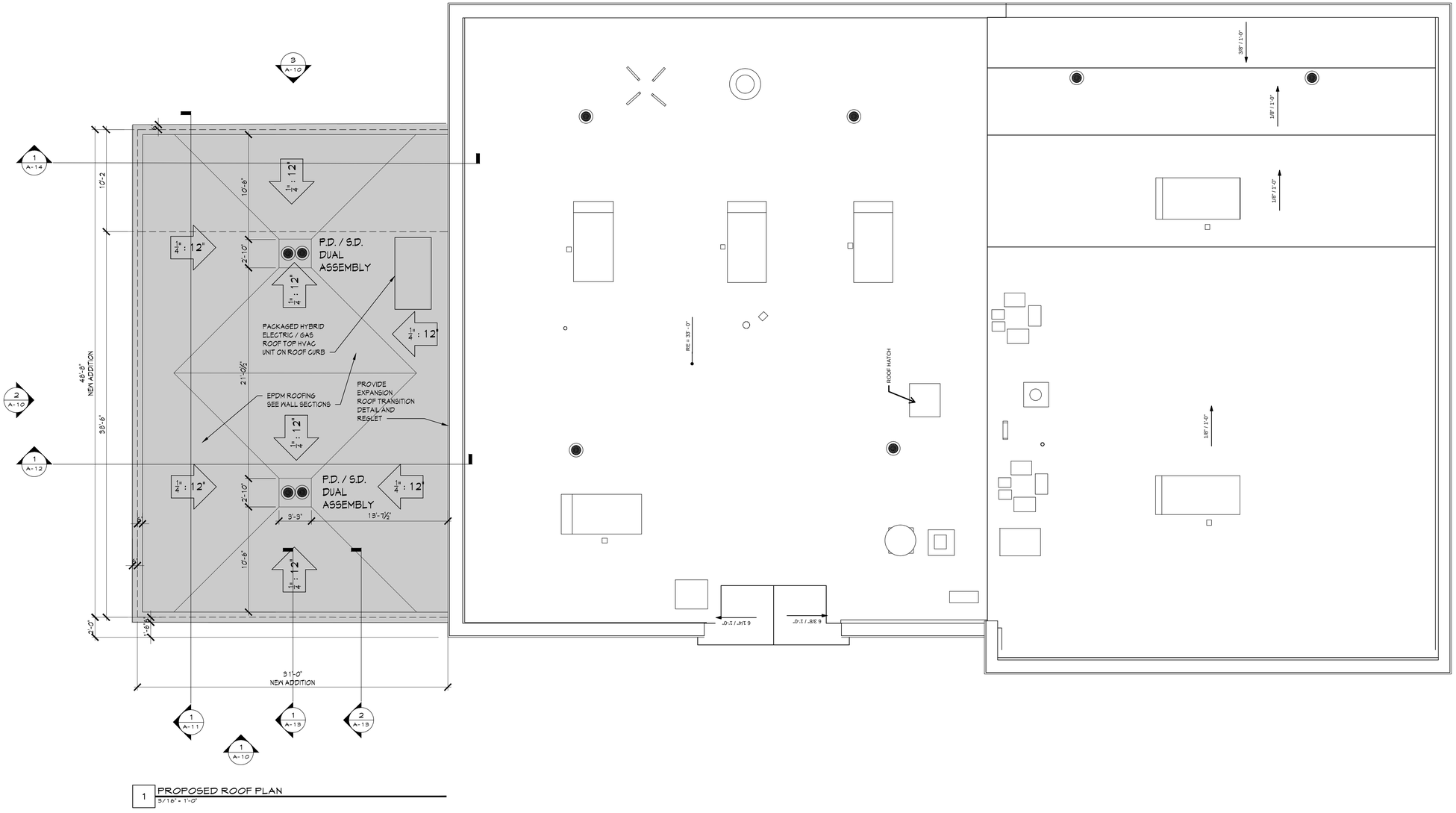
SECOND FLOOR RCP PLAN

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-8



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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

ROOF PLAN

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

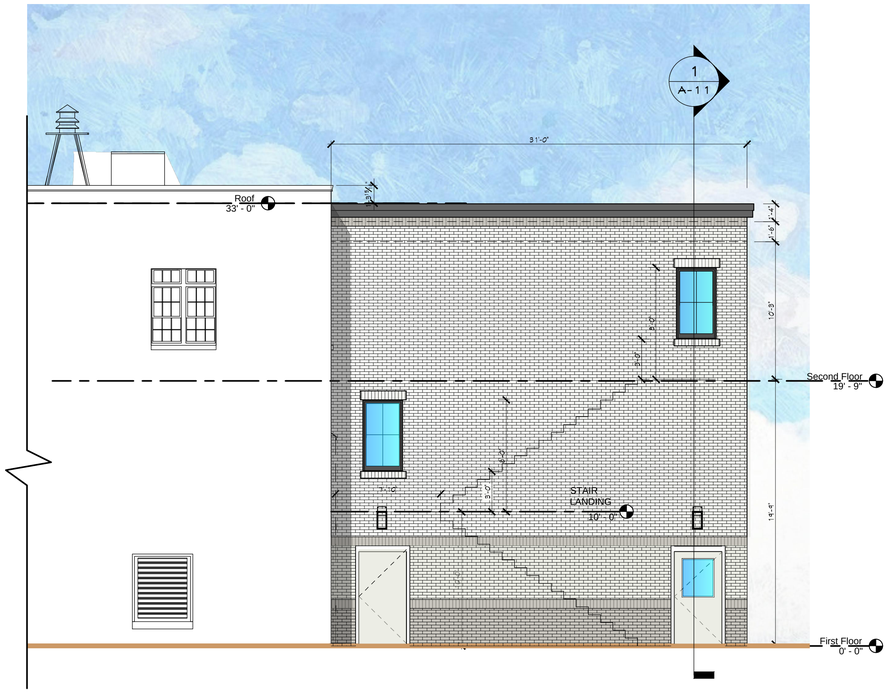
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A9.0

1 PROPOSED EMS FRONT ELEVATION - FACILITY SIDE FACING WAYNE STREET
3/16" = 1'-0"

2 PROPOSED EMS SIDE ELEVATION - FACILITY REAR ELEVATION FACING NORTH
3/16" = 1'-0"



3 PROPOSED EMS REAR ELEVATION - FACILITY SIDE ELEVATION FACING EAST
3/16" = 1'-0"

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30 Wayne Street
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New York 10520

Drawing Title

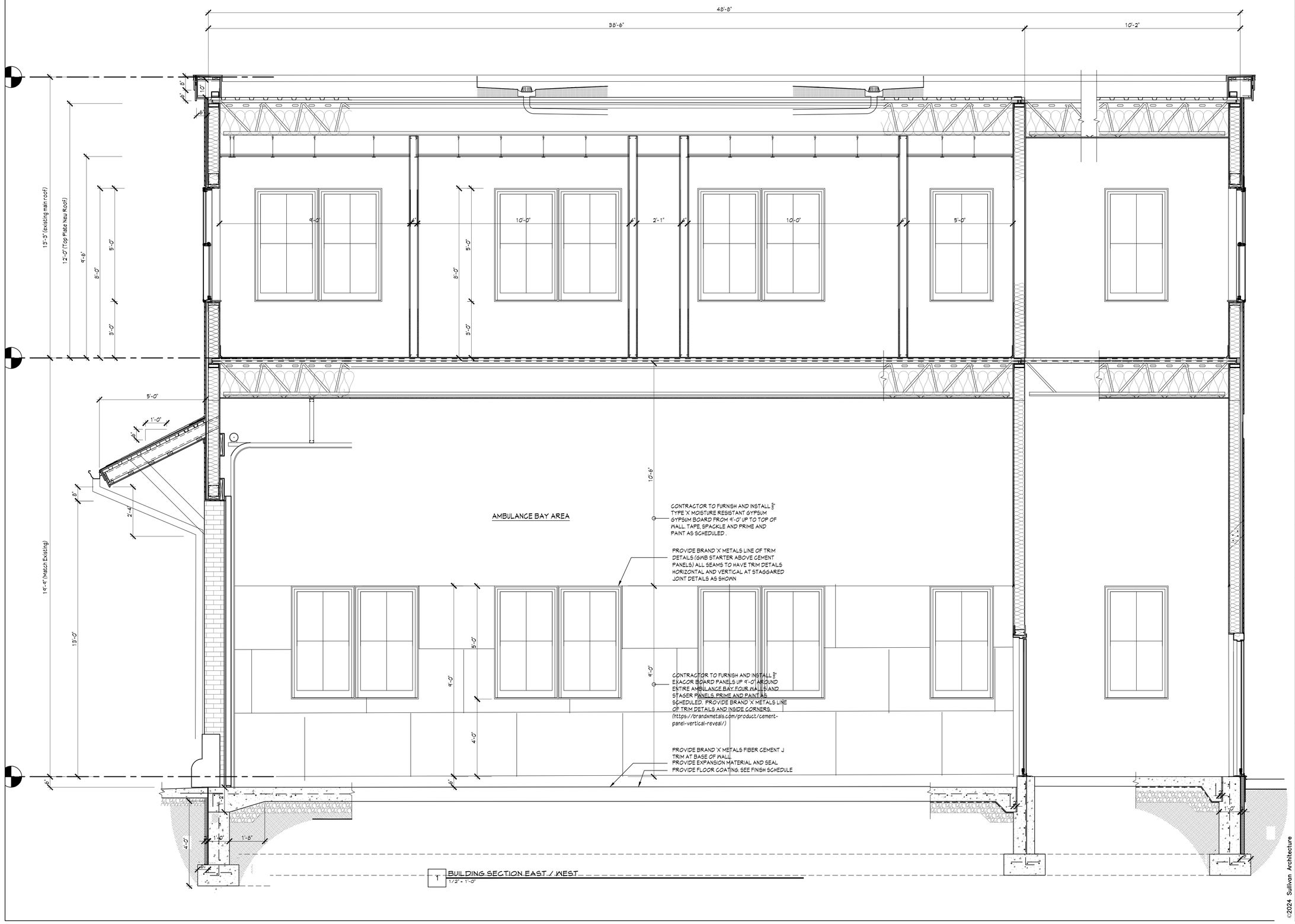
ELEVATIONS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-11



1 BUILDING SECTION EAST / WEST
1/2" = 1'-0"

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Project Title

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30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

BUILDING SECTIONS

Project No.	202222
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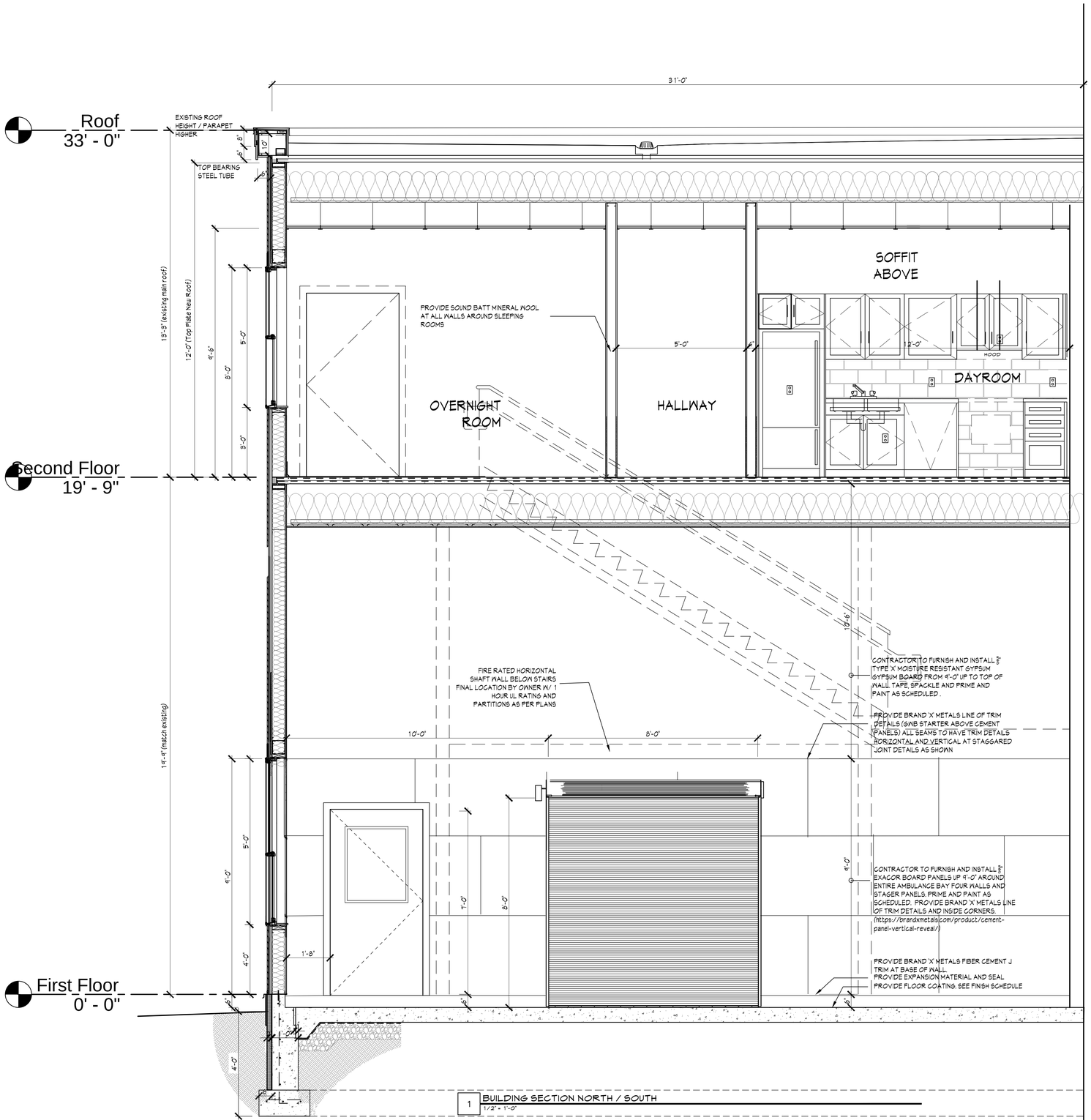
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-11



Sullivan Architecture, P.C.
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White Plains, New York 10601
914-761-6006 (F) 914-761-4919
John P. Sullivan, FAIA - Lisc. # 017185 Registered through 4/30/24

Date	Issue
1/18/2024	CLIENT REVIEW SET
4/8/2024	CLIENT REVIEW SET
5/7/24	CONSTRUCTION SET

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

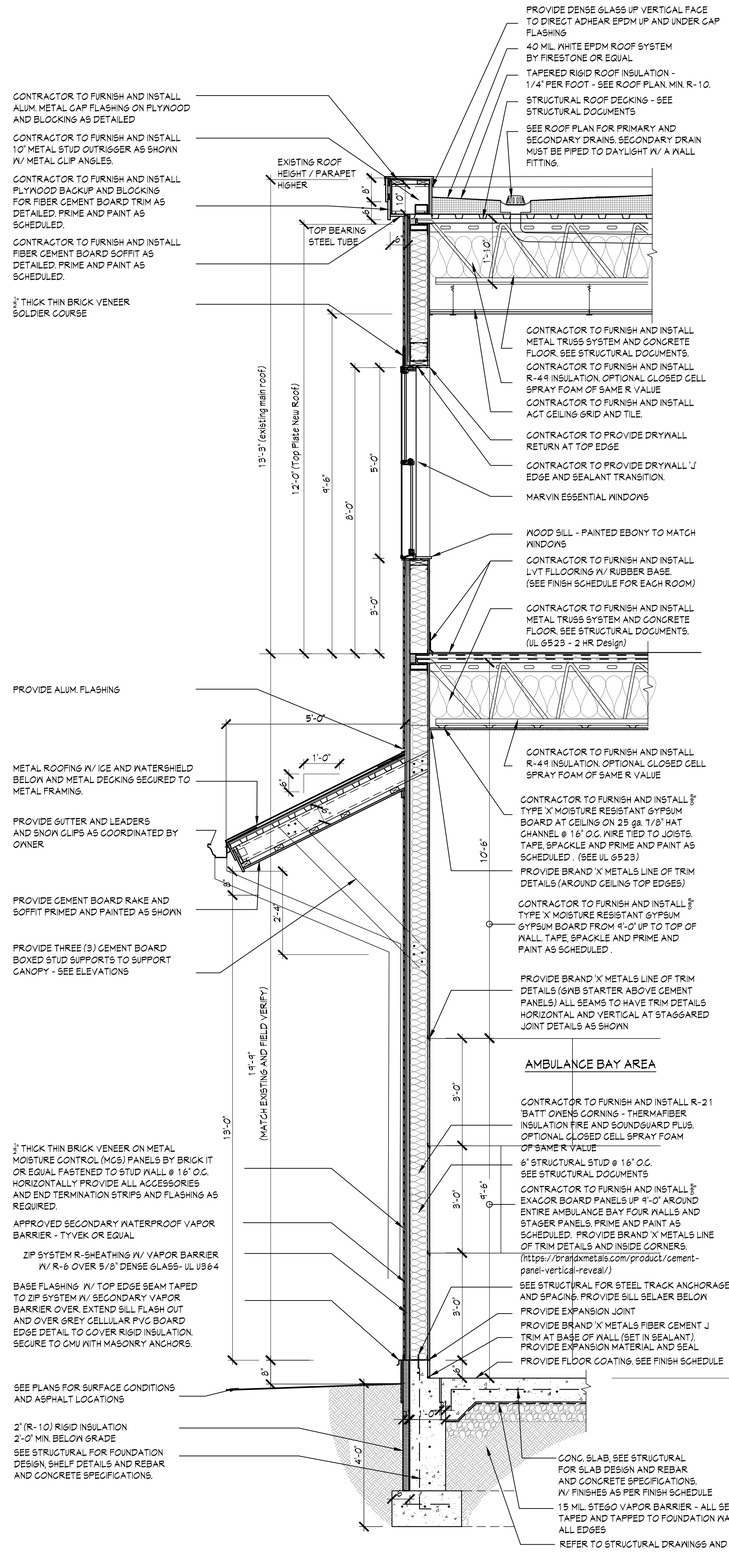
BUILDING SECTIONS

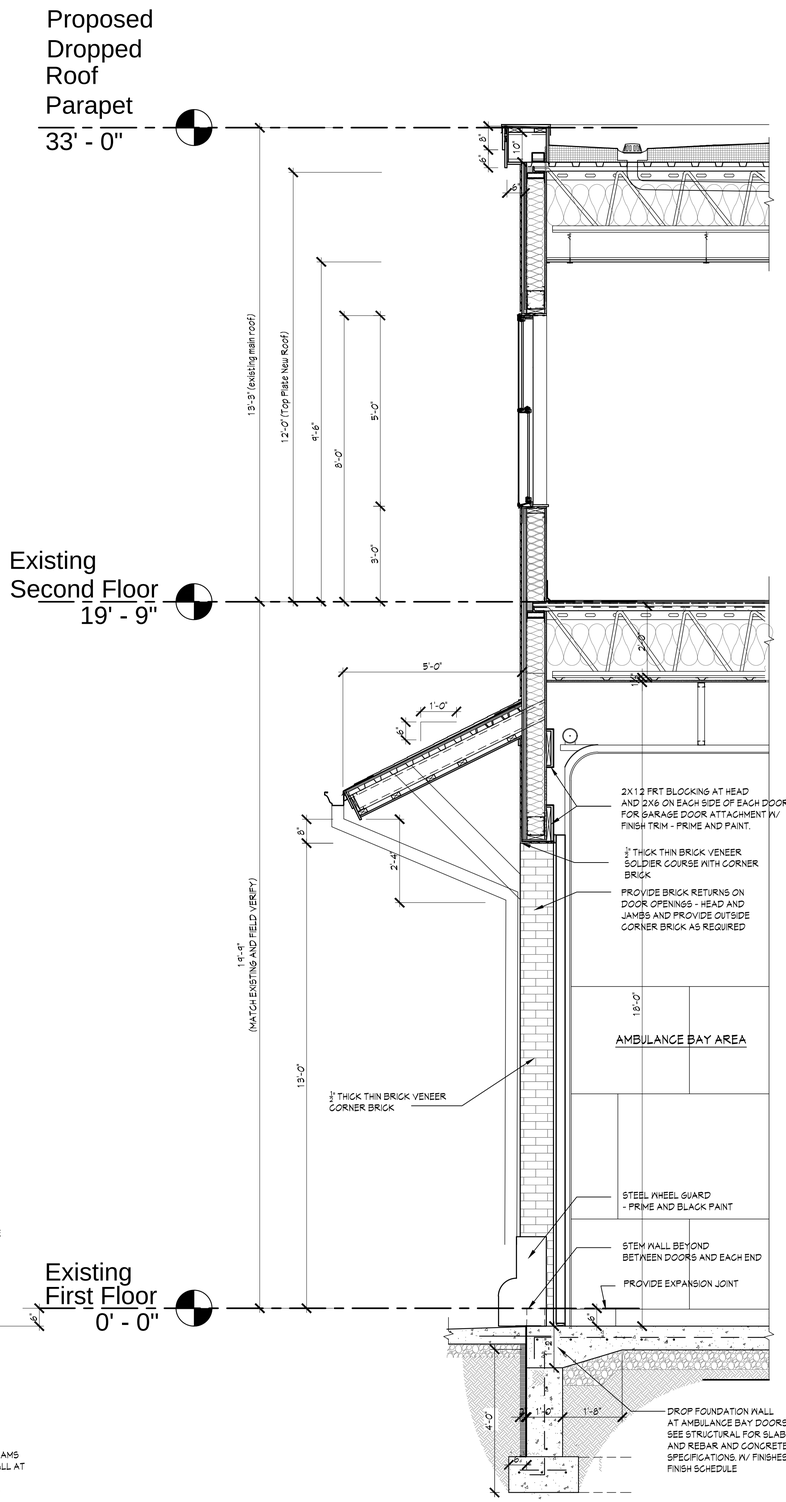
Project No.	202222
Date	1.21.2023
Scale	
Drawing by	KA
Checked by	

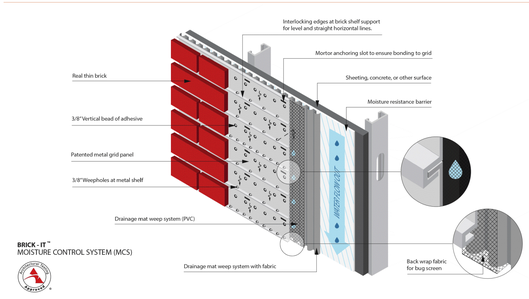
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

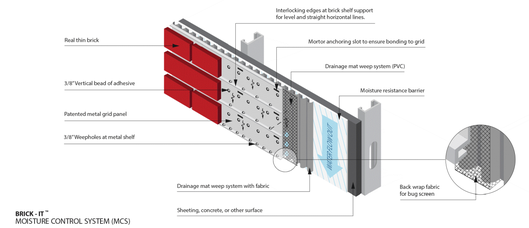
A-12







BRICK - IT ™
MOISTURE CONTROL SYSTEM (MCS)



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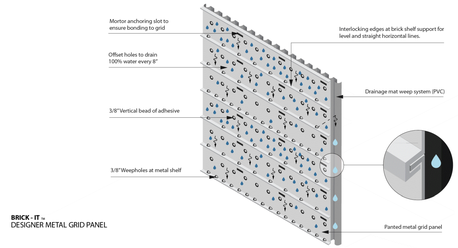
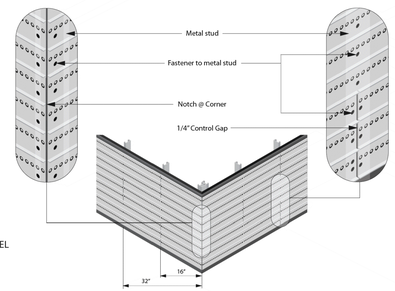
MOISTURE CONTROL SYSTEM (MCS)



BRICK - IT ™
DESIGNER METAL GRID PANEL



BRICK - IT ™
DESIGNER METAL GRID PANEL

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

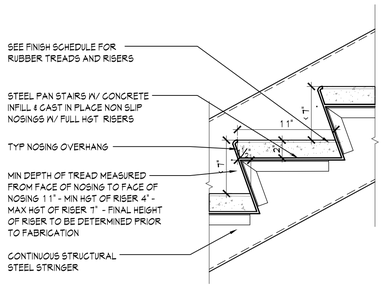
WALL SECTIONS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

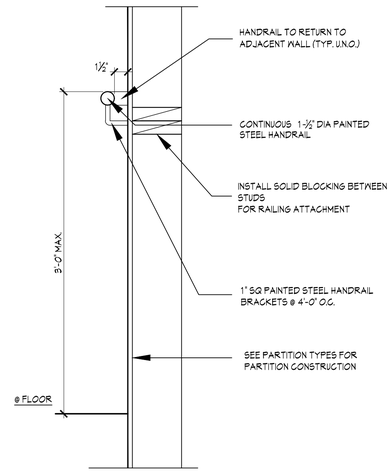
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

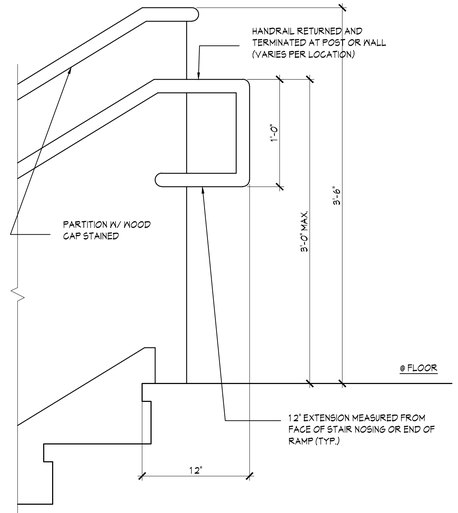
A-13



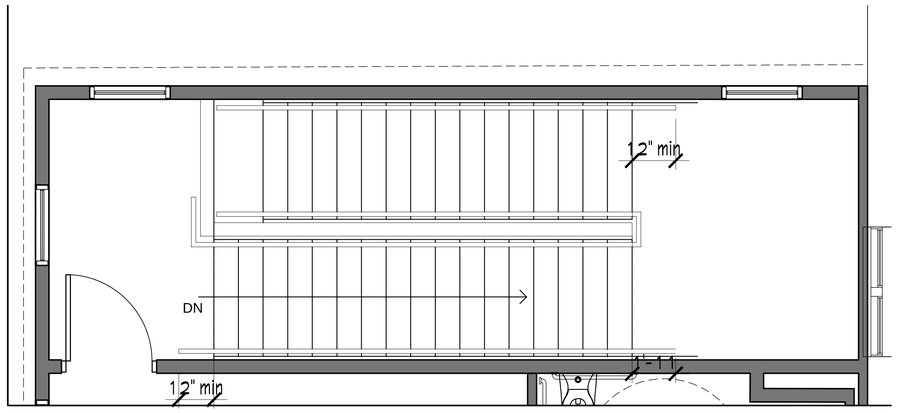
4 ENLARGED RISER TREAD DETAIL
1 1/2"=1'-0"



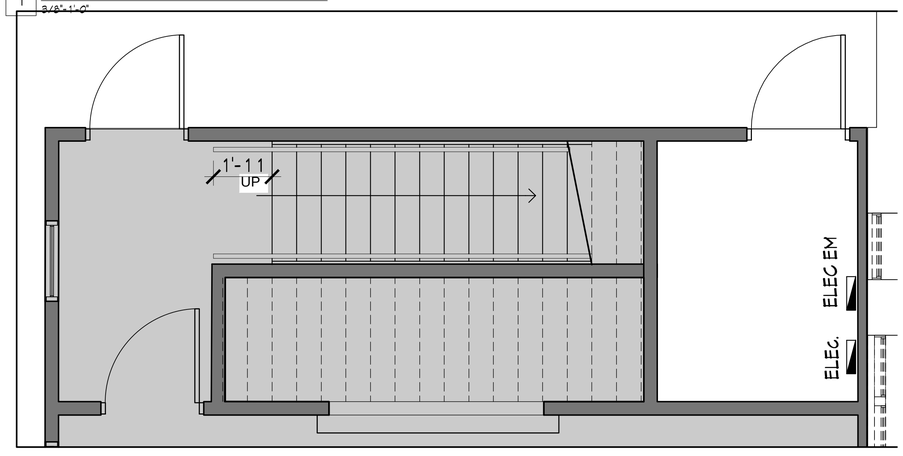
5 RAILING DETAIL
1 1/2"=1'-0"



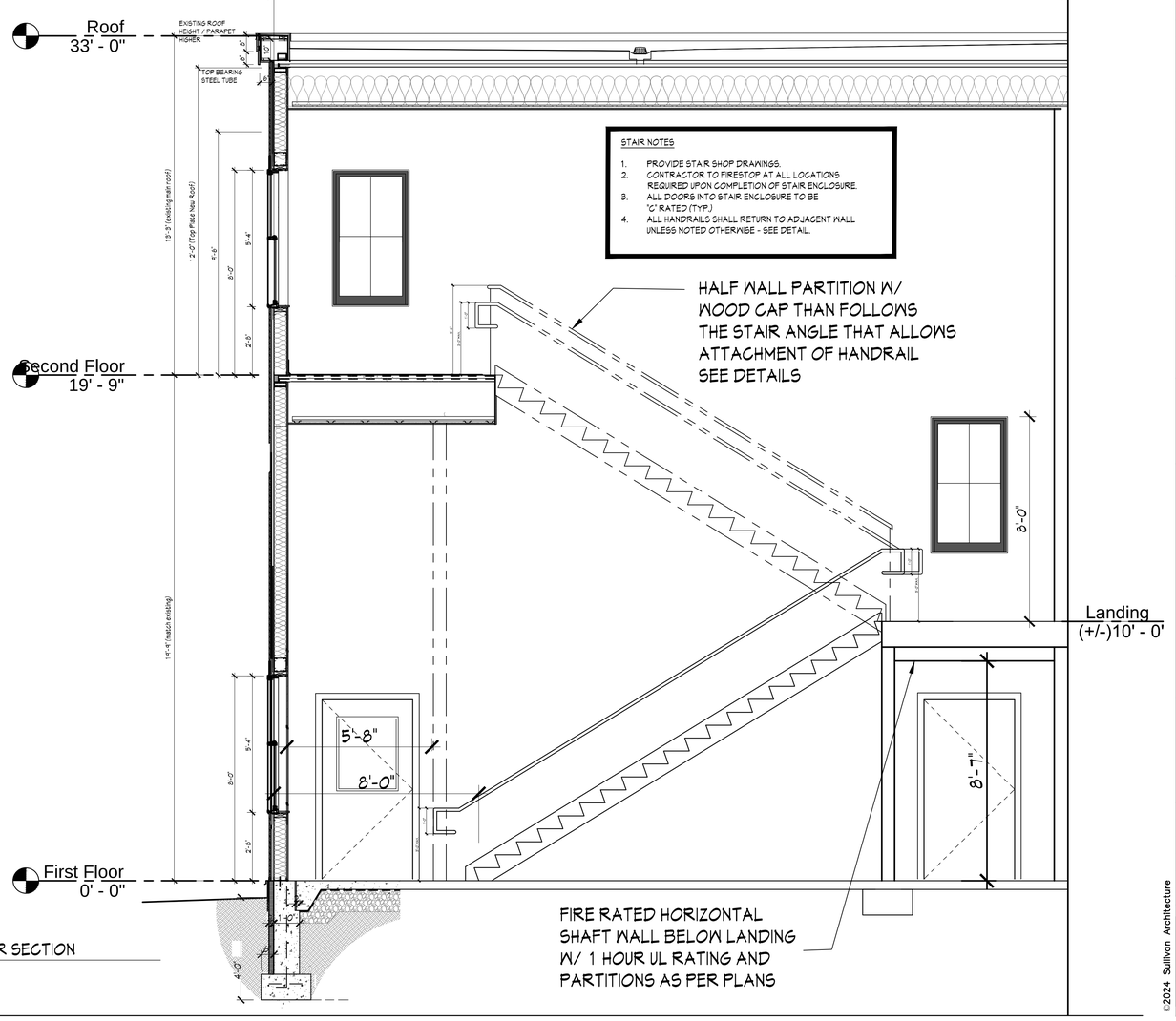
6 RAILING DETAIL
1 1/2"=1'-0"



1 STAIR 1 - SECOND FLOOR PLAN
3/8"=1'-0"



1 STAIR 1 - FIRST FLOOR PLAN
3/8"=1'-0"



3 STAIR 1 - STAIR SECTION
3/8"=1'-0"

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

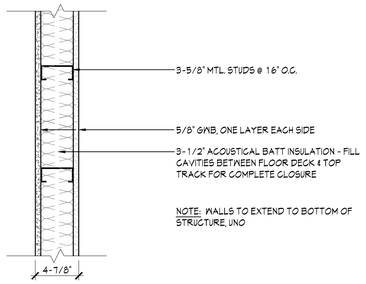
STAIR DETAILS

Project No.	202222
Date	1.21.2023
Scale	
Drawing by	KA
Checked by	

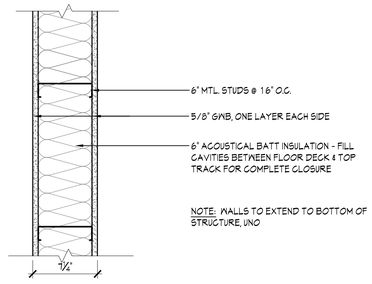
JOHN P. SULLIVAN — REGISTERED ARCHITECT — No. 017185 — STATE OF NEW YORK

Drawing No.

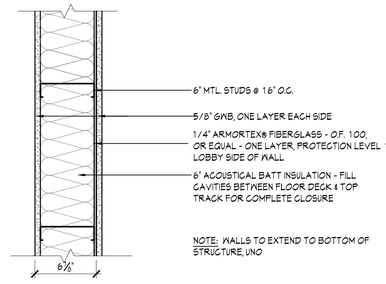
A-14



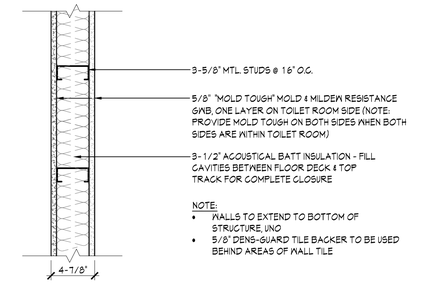
0A **Non-rated GWB Partition 3-5/8" Stud**
1-1/2" = 1'-0" NON-BEARING



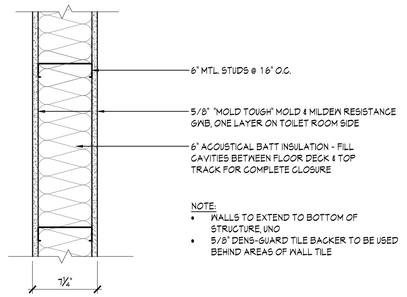
0B **Non-rated GWB Partition 6" Stud**
1-1/2" = 1'-0" NON-BEARING



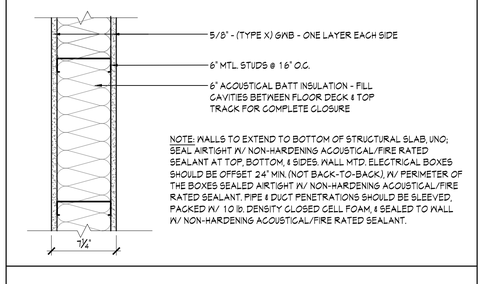
0B1 **Non-rated GWB Partition 6" Stud**
1-1/2" = 1'-0"



0C **Non-rated Toilet Rm. Part. 3-5/8" Stud**
1-1/2" = 1'-0" NON-BEARING

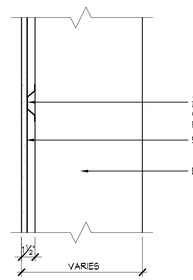


0D **Non-rated Toilet Rm. Partition 6" Stud**
1-1/2" = 1'-0" NON-BEARING



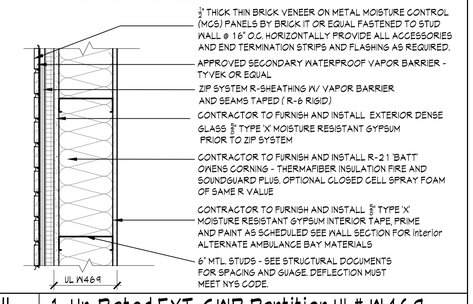
1 **1 Hr. rated GWB Partition 6" Stud**
1-1/2" = 1'-0" LOAD BEARING UL# U423

NON-LOAD BEARING UL# U419

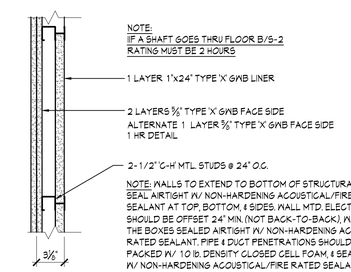


0G **Non-rated GWB Partition on Existing Wall**
1-1/2" = 1'-0"

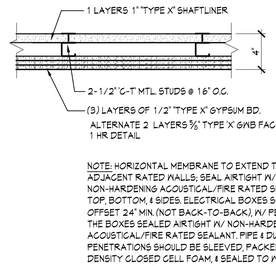
TYPICAL EXTERIOR BEARING WALL
W/ THIN BRICK VENEER



E1 **1-Hr. Rated EXT. GWB Partition UL# W469**
1-1/2" = 1'-0"



1a **2-Hr. Rated GWB Shaftwall CH Stud**
1-1/2" = 1'-0" UL# U469, Design STC = 35



1b **2-Hr. Rated Horizontal Membrane**
1-1/2" = 1'-0"

WALL CONSTRUCTION NOTES:

1) INTERIOR - SEE PARTITION TYPES THIS SHEET.
2) EXTERIOR METAL BEARING WALL ASSEMBLY UL #W469 W/ ZIP SYSTEM OVER AND THIN BRICK
3) ALL WALL ASSEMBLIES SHALL BE A MIN. OF 50 FOR ALL FINISH MATERIALS.
4) IIC - OF ALL WALL ASSEMBLIES SHALL BE A MIN. OF 50 FOR ALL FINISH MATERIALS.

FLOOR CONSTRUCTION NOTES:

1) TYPICAL TWO HOUR RATED - G523 - 2 HR - (ABOVE EMS APPARATUS BAY ONLY)
2) STC - OF ALL FLOOR ASSEMBLIES SHALL BE A MIN. OF 50 FOR ALL FINISH MATERIALS.
3) IIC - OF ALL FLOOR ASSEMBLIES SHALL BE A MIN. OF 50 FOR ALL FINISH MATERIALS.

ROOF CONSTRUCTION NOTES:

1) ROOF SYSTEM SHALL BE A CLASS C ROOF OR BETTER.

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

PARTITION DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-15

GENERAL NOTES

DOOR & FRAME NOTES:

1. FOR DOOR OPERATION AND HAND, REFER TO FLOOR PLANS.
2. ALL FIRE RATED DOORS SHALL HAVE UL RATED HARDWARE. ALL FIRE RATED DOORS TO HAVE LATCHES.
3. ALL GLAZED DOORS SHALL HAVE TEMPERED SAFETY GLAZING. INTERIOR DOORS SHALL HAVE ¼" THICK GLASS AND EXTERIOR DOORS SHALL HAVE INSULATED GLASS (DOUBLE GLAZING WITH AIR SPACE). ALL GLAZING AT RATED DOORS SHALL MEET UL REQUIREMENTS FOR S.F. BASED ON MATERIAL USED.
4. DOOR THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT. THRESHOLDS ½" BEVEL 1:2 RATIO MAX.
5. CLOSER OPENING FORCE SHALL NOT EXCEED 8 LBS. AT EXTERIOR DOORS AND 5 LBS AT INTERIOR DOORS.
6. EXIT DOOR HARDWARE SHALL ALLOW DOOR TO BE OPENED FROM INSIDE WITHOUT KEY, SPECIAL KNOWLEDGE OR EFFORT.
7. MANUALLY-OPERATED EDGE- OR SURFACE-MOUNTED FLUSH BOLTS ARE NOT PERMITTED AT EXIT DOORS.
8. ALL PASSAGE DOORS WITH LATCHES OR LOCKING MECHANISMS SHALL BE EQUIPPED WITH SINGLE-EFFORT LEVER-TYPE HARDWARE, PANIC BARS, OR OTHER HARDWARE TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE. DOOR HARDWARE SHALL BE CENTERED BETWEEN 34" AND 48" ABOVE THE FLOOR.
9. ALL DOORS SHALL HAVE MIN. 10" SMOOTH SURFACE AT BOTTOM TO MEET ANSI REQUIREMENTS.
10. ALL RATED DOORS TO HAVE SMOKE SEALS, UL LABELS AND REQUIRED FIRE RATED COMPONENTS.
11. FIRE DOORS FOR OPENINGS IN FIRE RATED PARTITIONS SHALL COMPLY WITH SECTION 716 - OPENING PROTECTIVES. NON FIRE RATED GLAZING MATERIAL IN THE DOOR ASSEMBLY SHALL HAVE A MAXIMUM EXPOSED AREA OF 100 SQUARE INCHES.
12. ARCHITECT TO SELECT HM, MDF, FRP AND WD FINISH COLOR FOR DOORS AND FRAMES. ENSURE WOOD DOOR HAS FINISH COAT AT EACH SIDE, INCLUDING TOP AND BOTTOM.
13. WHERE LOCATION OF DOORS ARE NOT DIMENSIONED, THEY SHALL BE CENTERED IN THE WALL OR PLACED 4-5/8" FROM ADJACENT WALL.
14. ALARM/SECURITY SYSTEM BY SECURITY VENDOR. COORDINATE WIRING DURING INSTALLATION.

ABBREVIATIONS:

AL ALUM	ALUMINUM
ANOD	ANODIZED
PT	PAINT
HM	HOLLOW METAL
WD	WOOD
FF	FACTORY FINH
STL	STEEL
HC	HOLLOW CORE WOOD
SC	SOLID CORE WOOD
AL/MIRR	ALUMINUM MIRRORED DOOR
FRP	FIBERGLASS REINFORCED PLASTIC

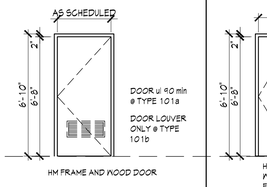
UL DOOR LABEL:

G LABEL	45 MIN. FIRE RATING

DOOR TYPES

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

DOOR # 136a, 139a- 3'-6" WIDE

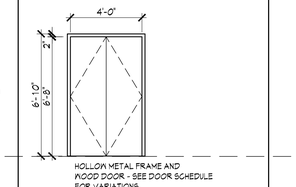


DOOR U 90 min
@ TYPE 101a

DOOR LOUVER
ONLY @ TYPE
101b

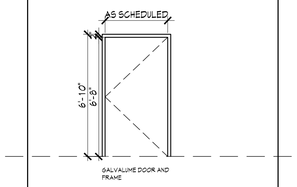
HM FRAME AND WOOD DOOR

101 WOOD DOOR



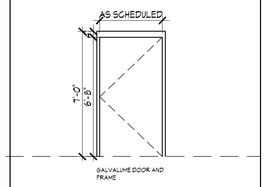
HOLLOW METAL FRAME AND WOOD DOOR - SEE DOOR SCHEDULE FOR VARIATIONS

102 DOUBLE WOOD DOOR



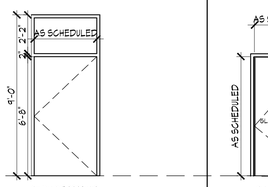
GALVALUME DOOR AND FRAME

103 SINGLE FLUSH METAL DR



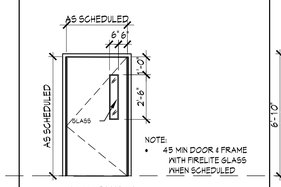
GALVALUME DOOR AND FRAME

103 SINGLE FLUSH METAL DR



GALVALUME DOOR AND FRAME AND INSULATED PANEL ABOVE

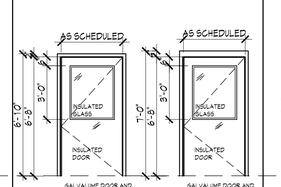
103A SINGLE FLUSH METAL DR W/ PANEL



GALVALUME DOOR AND FRAME

NOTE:
- 45 MIN DOOR & FRAME WITH FIRELITE GLASS WHEN SCHEDULED

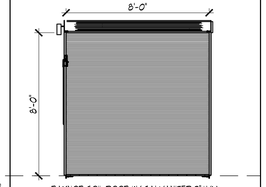
105 W.D. DOOR WITH LITE



GALVALUME DOOR AND FRAME
DOOR TYPE 106

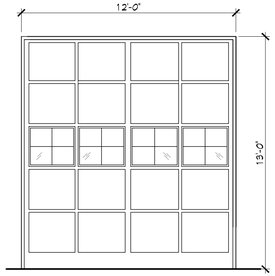
GALVALUME DOOR AND FRAME
DOOR TYPE 106A

106 H.M. DOOR WITH LITE



RAYNOR COIL DOOR W/ GALVANZED 2" H/M STEEL CHANNEL FRAME

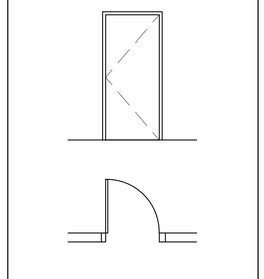
107 COIL DOOR - LEVEL 1



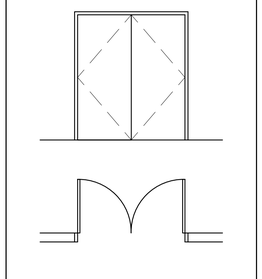
RAYNOR INSULATED PANEL DOOR W/ DOUBLE PANE GLASS AT PANELS SHOWN

108 ALUMINUM & GLASS SECTIONAL OVERHEAD DOOR

DOOR FRAME TYPES



F1 SWING DOOR FRAME



F2 SWING DOOR FRAME

DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	DOOR TYPE	DOOR MATL	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK	FRAME TYPE	FRAME MATL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	HARDWARE SET	LABEL	REMARKS
FIRST FLOOR														
101	CORRIDOR	106A	HM	3'-6"	6'-8"	1 3/4"	F1	HM	H3	J1	S4	1	B	INSULATED DOOR
102	not used													
103	EMS BAY GARAGE DR	108	ALUM									9		SECTIONAL OVERHEAD DOOR
104	EMS BAY GARAGE DR	108	ALUM									9		SECTIONAL OVERHEAD DOOR
105	EMS STORAGE DOOR	107	HM	8'-0"	8'-0"						S1	10		COIL DOOR
106	EMS BAY EXIT DOOR	106	HM	3'-6"	6'-8"	1 3/4"	F1	HM	H1	J1	S4	2	C	INSULATED DOOR
107	FIRE STAIR 3	106A	HM	3'-6"	6'-8"	1 3/4"	F1	HM	H3	J1	S4	1		INSULATED EXTERIOR DOOR
108	MEP ROOM	103	HM	3'-6"	6'-8"	1 3/4"	F1	HM	H3	J1	S4	7		INSULATED EXTERIOR DOOR
109	EMS STORAGE DOOR	103	HM	3'-6"	6'-8"	1 3/4"	F1	HM	H3	J1	S4	5	B	INSULATED DOOR
SECOND FLOOR														
201	CORRIDOR	101A	WD	3'-0"	6'-8"	1 3/4"	F1	HM	H3	J1	S6	3	B	
202	OFFICE	101	WD	3'-0"	6'-8"	1 3/4"	F1	HM	H1	J1	S9	5		
203	HALLWAY	101	WD	3'-0"	6'-8"	1 3/4"	F1	HM	H1	J1	S6	4		
204	OVERNIGHT ROOM	101	WD	3'-0"	6'-8"	1 3/4"	F1	HM	H1	J1	S9	6		
205	CLOSET DOOR	102	WD	(2)2'-0"	6'-8"	1 3/4"	F2	HM	H1	J1	S7	8		
206	LIN CLOSET	101	WD	1'-6"	6'-8"	1 3/4"	F1	HM	H1	J1	S6	4		
207	OVERNIGHT ROOM	101	WD	3'-0"	6'-8"	1 3/4"	F2	HM	H1	J1	S9	6		
208	CLOSET DOOR	102	WD	(2)2'-0"	6'-8"	1 3/4"	F1	HM	H1	J1	S7	8		
209	BATHROOM	101B	WD	3'-0"	6'-8"	1 3/4"	F1	HM	H1	J1	S3	6		
210	FIRE STAIR 3	105	WD	3'-0"	6'-8"	1 3/4"	F1	HM	H1	J1	S2	3	C	

DOOR HARDWARE SETS

General Notes:

(1) Provide heavy duty ball hinges at all solid core doors.
(2) Provide st. stl hinges at all doors located at exterior or unconditioned spaces.
(3) See elec. dwgs. for doors with electrical requirements for security/access elements.
(4) Provide all Fire rated components at fire rated doors as noted on door schedule.
(5) 1 1/2 Pair hinges for 7'-0" doors & 2 Pair at 8'-0" doors or as noted.
(6) Provide Power supplies for all equipment specified
(7) All access control devices to be connected to EM power & Fail safe
(8) Alarm system & door monitoring contacts are shown on security documents.
(9) Functions as show on Hardware sets notes
(10) All Electromechanical lock set doors to be coordinated with Electric Strike
(11) See Security Documents for balance of scope of Security Hardware and alarm scope
(12) All Hardware Fishes shall be US26D unless otherwise noted
(13) All hardware must have interchangable cores and be set up for master/sub - key system - see specifications
(14) New door assemblies in fire-resistance rated corridors shall be tested in accordance with NFPA 252 or UL 10C without the hose stream test
(15) New door assemblies in fire-resistance rated corridors shall meet the requirements for smoke and draft control door assemblies, tested for air leakage in accordance with UL 1784.
(16) in all electrified sets listed if a fire rated door electrified hardware must be fail secure a in such cases provide push button reqest to exit - SDC - 422A w/ ADA symbol w/ power supply as per NFPA 80 - verify w/ owner on case by case basis

Set No. 1- Entry Lockset Set - Single FOB Access - w/ Panic Hardware
Galvannealed Frame and Insulated Door

1 Mortise / Panic Bar set	surface mounted - 99 series Von Duprin
Electric Strike	Von Duprin 6400 series
Closer	LCN-2030 Concealed Closer
1 1/2 Pair hinges	Hagar/US26D
Floor / Wall Stop	Mckinney WS04 (US26D) / Mckinney 598S - US26D
Silencer	Ives SR64
Motion Sensor	GE RCR/REX DUAL INFARED/DOPPLER Motion Detector
Push Button request to exit	SDC - 422A w/ ADA symbol
FOB w/ power supply	
connect to fire alarm - fail safe see note 16	
Aplied Weather stripping	Zero 119A
Edge Seals	Zero - 770AA Head & Jamb
ADA Sill	Zero -105,68,675 or equal
Door Sweep	Zero 328G
Door Bottom Seal	Zero - Surface Mounted 365
Kickplate both sides of door	
Drip Cap at exterior frames only	

Set No. 2- Passage Set - w/ Panic Hardware
Galvannealed Frame and Insulated Door

1 Mortise / Panic Bar set	surface mounted - 99 series Von Duprin
Closer	LCN-2030 Concealed Closer
1 1/2 Pair hinges	Hagar/US26D
Floor / Wall Stop	Mckinney WS04 (US26D) / Mckinney 598S - US26D
Silencer	Ives SR64
Kickplate both sides of door	

Set No. 3 - Interior Fire Stair Doors and door from existing building at second floor

1 Mortise / Panic Bar set	surface mounted - 99 series Von Duprin
Electric Strike	Von Duprin 6400 series
Closer	LCN-2030 Concealed Closer
1 1/2 Pair hinges	Hagar/US26D
Floor / Wall Stop	Mckinney WS04 (US26D) / Mckinney 598S - US26D
Silencer	Ives SR64
Motion Sensor	GE RCR/REX DUAL INFARED/DOPPLER Motion Detector
Push Button request to exit	SDC - 422A w/ ADA symbol
FOB w/ power supply	
connect to fire alarm - fail safe see note 16	
Door Bottom Seal	Zero - Surface Mounted 365
Kickplate both sides of door	

Set No. 4- Passage Set - Single Door Hallway & Lien Closet

1 Bored set	Sargent 1015 series w/ 'P' Lever, 'L' Rose
Silencers	Mckinney S1M
Closer	Sargent SG 421-CTHB-EN-AL
1 1/2 Pair hinges	Mckinney T4A3786 Heavy Weight Hinge
Wall Stop or Overhead Stop	Mckinney WS04 (US26D) / Mckinney 598S - US26D

Set No. 5 - Lock Set - Single Door

1 Bored set	Sargent 1015 series w/ 'P' Lever, 'L' Rose
Silencers	Mckinney S1M
1 1/2 Pair hinges	Mckinney T4A3786 Heavy Weight Hinge
Wall Stop or Overhead Stop	Mckinney WS04 (US26D) / Mckinney 598S - US26D
Coat Hook at door 202	

Set No. 6- Overnight / Restroom / Privacy Set - Single Door

1 Bored set	Sargent 1015 series w/ 'P' Lever, 'L' Rose
Silencers	Mckinney S1M
Closer	Sargent SG 421-CTHB-EN-AL
1 1/2 Pair hinges	Mckinney T4A3786 Heavy Weight Hinge
Silencer	Ives SR64
Wall Stop or Overhead Stop	Mckinney WS04 (US26D) / Mckinney 598S - US26D
Coat Hook - overnight rm's	Baldwin 0743 (US26D)
Aplied Weather stripping - overnight	Zero 119A
Edge Seals - overnight	Zero - 770AA Head & Jamb

Set No. 7 - Lock Set - Single Door -Galvannealed Frame and Door - MEP room

1 Bored set	Sargent 1015 series w/ 'P' Lever, 'L' Rose
Silencers	Mckinney S1M
Closer	Sargent SG 421-CTHB-EN-AL
1 1/2 Stainless Steel Pair hinges	Mckinney T4A3786 Heavy Weight Hinge
Wall Stop or Overhead Stop	Mckinney WS04 (US26D) / Mckinney 598S - US26D
Silencer	Ives SR64
Aplied Weather stripping	Zero 119A
Edge Seals	Zero - 770AA Head & Jamb
ADA Sill	Zero -105,68,675 or equal
Door Sweep	Zero 328G
Door Bottom Seal	Zero - Surface Mounted 365
Drip Cap at exterior frames only	

DOUBLE DOORS

Set No. 8- Passage Closet - Double Door

2 dummy 1/2 sets	Sargent 1015 series w/ 'P' Lever, 'L' Rose
3 pair hinges	Hagar/US26D
2 roller catches	Rockwood #590/US26D
Silencer	Ives SR64
Floor / Wall Stop	Rockwood No. 442/US26D

SPECIALTY DOORS

Set No. 9- Commercial Ovehead Apparatus Bay Doors

Raynor AlumaView® AV300 Series - 3" thick assembly - Full Glass Sectional Doors	
Insulated and Impact Rated Glass w/ Red anodized finish and grey panels	
Wind Rated Assemblies to meet code	
Enduracote Hardware system with springs, track and hardware coated Black	
Control Hoist 2.0 Optima Drive Motor - Motor operated (w/ manual override and chain)	
W/ standard LCD Control Panels - (All Door Controls to be Moisture Resistant)	
Raynor supplied option Alarm contact	
3" Customized Track to provide the greatest headroom possible	
Head Seal, Jamb seals, Bottoom Bulb Seal	
High Cycle Counter Balance System for 100,000- cycle life	
Jam Locks	
Wall-mounted interior controls opener	
Power supply as required for key pad access	
Photo Eye - safety shut-off	
Electric reversing edge	
(10) Universal car visor remote entry controls	

Set No. 10- Coil Door - Exterior Rated

Raynor coil	
Lockset	
Door Tracks, Header Brush, Flame Baffle, Guide Brush, Curtain Hood	
Lock & Seals	
Flat Slats Door Design	

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

DOOR SCHEDULE

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

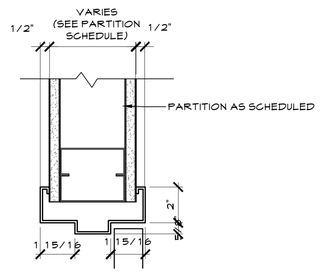
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

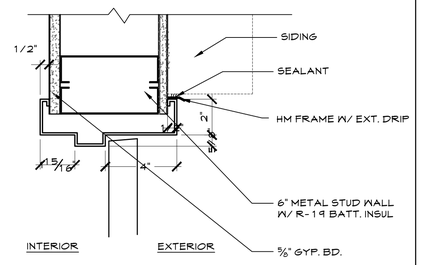
A-16

DOOR HEAD DETAILS

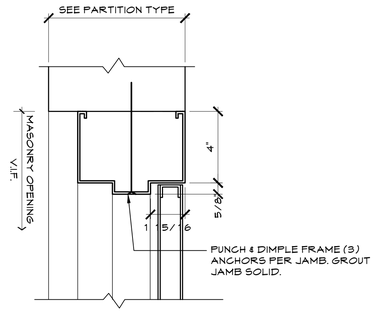
SCALE : 3"= 1'-0"



H1 HM DOOR HEAD @ INTERIOR

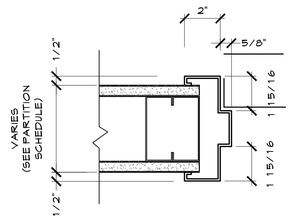


H2 HM DOOR HEAD @ EXTERIOR

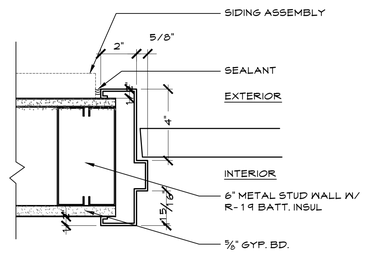


H3 HM FRAME HEAD

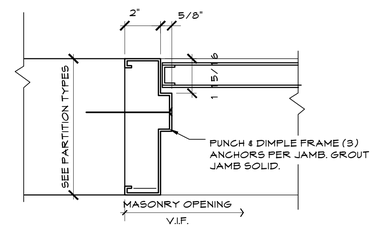
DOOR JAMB DETAILS



J1 HM DOOR JAMB @ INTERIOR



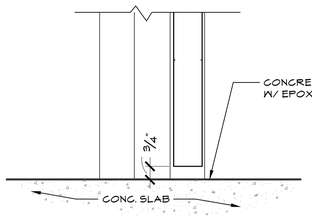
J2 HM DOOR JAMB @ EXTERIOR



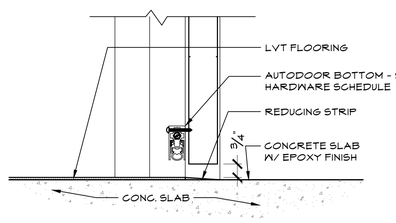
J3 MASONRY/ HM FRAME JAMB

DOOR SILL DETAILS

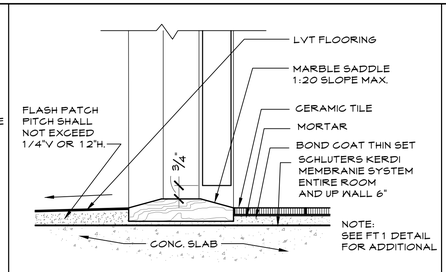
SCALE : 3"= 1'-0"



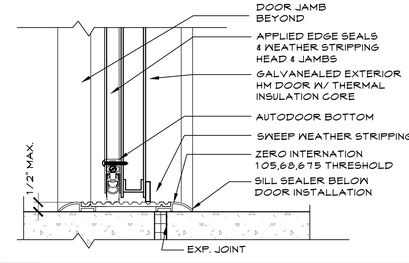
S1 DOOR - CONCRETE FLOORING



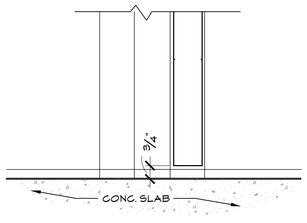
S2 DOOR SILL (LVT TO CONCRETE)



S3 DOOR SILL (LVT TO CT)

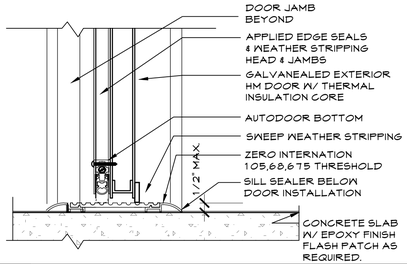


S4 EXTERIOR DOOR SILL

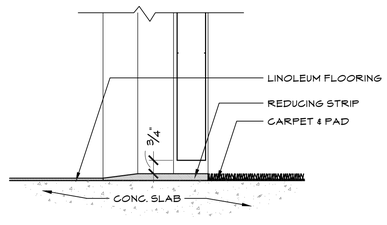


S7 NO DOOR SILL (CPT TO CPT)

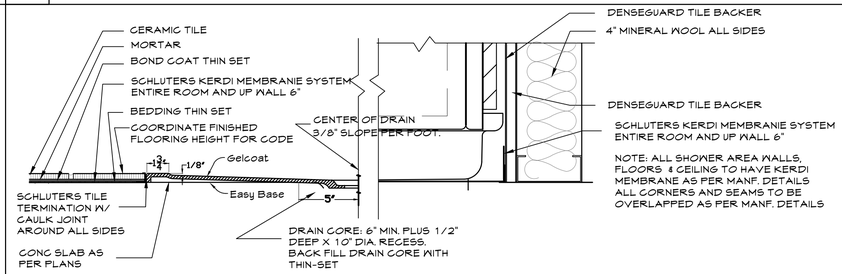
S6 NO DOOR SILL (LVT TO LVT)



S8 SILL (EPOXY TO EPOXY)



S9 DOOR SILL (LVT TO CARPET)



FT 1 TRANSITION TILE TO ADA SHOWER BASE

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Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

DOOR TYPES AND DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

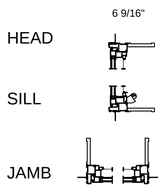
A-17

WINDOW SCHEDULE (SEE PLANS FOR SYMBOLS AND COUNTS)

SYMBOL	MANUFACTURER	WINDOW MODEL	TYPE	FINISH EXTERIOR	FINISH INTERIOR	FINISH COLOR	GLAZING THICKNESS	GLAZING TYPE	GLAZING FINISH	INSECT SCREEN FRAME	INSECT SCREEN TYPE	GRILL TYPE	REMARKS	SYMBOL
A	MARVIN	"ESSENTIAL" ESCA3050	CASEMENTS	FIBERGLASS	FIBERGLASS	BLACK (INTERIOR / EXTERIOR)	7/8"	LOW E2 (ARGON)	CLEAR	EXTRUDED	ALUMINUM	SIM. DIVIDED LITE		A
B	MARVIN	"ESSENTIAL" ESCA3050 - 2 Wide	CASEMENTS	FIBERGLASS	FIBERGLASS	BLACK (INTERIOR / EXTERIOR)	7/8"	LOW E2 (ARGON)	CLEAR	EXTRUDED	ALUMINUM	SIM. DIVIDED LITE	MULLED UNITS	B
C	MARVIN	"ESSENTIAL" ESCA3050 - 3 Wide	CASEMENT	FIBERGLASS	FIBERGLASS	BLACK (INTERIOR / EXTERIOR)	7/8"	LOW E2 (ARGON)	CLEAR	EXTRUDED	ALUMINUM	SIM. DIVIDED LITE	MULLED UNITS	C

ESSENTIAL CASEMENT

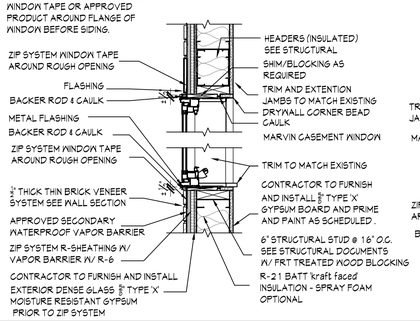
SECTION DETAILS - OPERATING

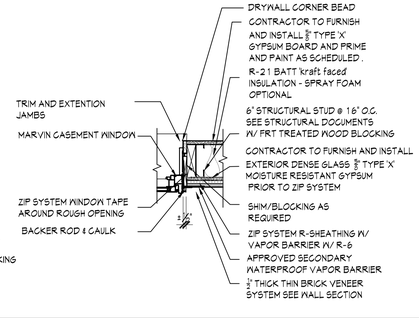


MARVIN

For technical assistance please call 1-800-346-3363. For drawing assistance, e-mail MDS@marvin.com or call 1-800-472-6895.

NOTE:
PROVIDE ADDITIONAL ZIP SYSTEM WINDOW TAPE OR APPROVED PRODUCT AROUND FLANGE OF WINDOW BEFORE SIDING.





ESSENTIAL DIVIDED LITE

GRILLE BETWEEN THE GLASS OR SDL IS ACCEPTABLE

MARVIN

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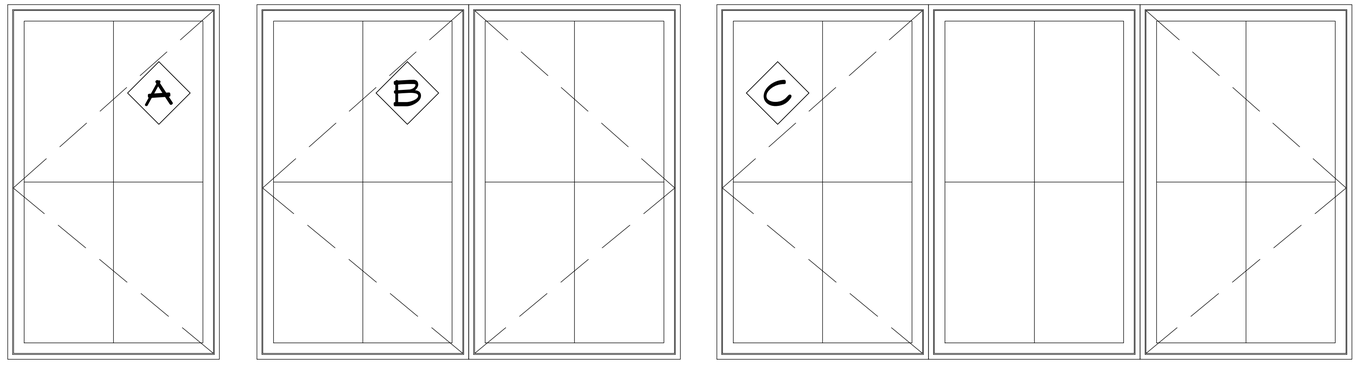
Masonry Opening	3-0	X 2	X 3
Rough Opening	3-0		
Frame Size	2-11 1/2		
Glass Size	30 15/16"		
	4-11 3/4		
	5-0		
	4-11 1/2		
	54 15/16"		



ESCA3050 *
(+/-) 11.25 s.f. area glass

(2) ESCA3050*
(+/-) 22.5 s.f. area glass

(3) ESCA3050*
(+/-) 33.75 s.f. area glass

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Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-18

FINISH SCHEDULE

ROOM NUMBER AND NAME	FLOOR		BASE		WALL		CEILING		REMARKS
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
EMS APARATUS BAYS	CONCRETE	FLR-2	RUBBER	Epoxy Base or BASE - 1	GNB-2/GNB-3	PAINT -2	GNB-2	PAINT -4	GNB-3 5/8" EXACOR BOARD PANELS UP 9'-0" AROUND ENTIRE AMBULANCE BAY FOUR WALLS AND STAGER PANELS W/ GNB - 2 ABOVE PRIME AND PAINT ALL WALLS AND CEILING
STORAGE CLOSET	CONCRETE / EPOXY	FLR-2	RUBBER	BASE - 1	GNB-2/GNB-3	PAINT -2	GNB-2	PAINT -4	CEILING HORIZONTAL SHAFT WALL PARTITION TYPE 1B BELOW STAIR
FIRE STAIR	CONCRETE	FLR-1	RUBBER	BASE - 1	GNB	PAINT - 1	GNB	PAINT-1	
MECHANICAL AREA	CONCRETE				GNB	PAINT - 1	GNB	PAINT-2	CEILING HORIZONTAL SHAFT WALL PARTITION TYPE 1B BELOW STAIR
EXISTING OVERNIGHT RM CONVERTED TO STORAGE									MATCH EXISTING FINISHES AS REQUIRED
EXISTING OVERNIGHT RM CONVERTED TO STORAGE									MATCH EXISTING FINISHES AS REQUIRED
DAY ROOM	CONCRETE	FLR-1	RUBBER	BASE - 1	GNB CT-6 AT KITCHENETTE BACKSPLASH	PAINT - 1	ACT-1	N/A	
OFFICE	CONCRETE	FLR-1	RUBBER	BASE - 1	GNB	PAINT - 1	ACT-1	N/A	
OVERNIGHT ROOM 1	CONCRETE	CPT-1	RUBBER	BASE - 1	GNB	PAINT - 1	ACT-1	N/A	
OVERNIGHT ROOM 2	CONCRETE	CPT-1	RUBBER	BASE - 1	GNB	PAINT - 1	ACT-1	N/A	
HALLWAY	CONCRETE	FLR-1	RUBBER	BASE - 1	GNB	PAINT - 1	ACT-1	N/A	
BATHROOM	CONCRETE	CT-1	CERAMIC TILE	CT-2	CERAMIC TILE	CT-3,4&5 W/ GNB-2 ABOVE W/ PAINT - 1	GNB-1	PT-3	

FINISH MATERIALS - All MATERIALS TO BE SUBMITTED FOR APPROVAL - FINAL COLORS SELETED BY ARCHITECT - All MATERIALS NOTED ARE FOR BUDGETS ONLY.

Paint-1 - Typical Wall
Manufacture: Benjamin Moore
Style: Eggshell
Color: Swiss Coffee OC-45

Paint-2 - Wall at EMS Bay
Manufacture: Benjamin Moore
Style: Epoxy - Pro Industrial High Performance -Semi Gloss
Color: Swiss Coffee OC-45

Paint-3 - Gypsum Ceilings
Manufacture: Benjamin Moore
Style: Matte flat
Color: Super White

Paint-4 - Gypsum Ceilings at EMS Bay
Manufacture: Benjamin Moore
Style: Epoxy - Pro Industrial High Performance - Flat
Color: Super White

Paint-5 - Bathroom
Manufacture: Benjamin Moore
Style: Eggshell
Color: Swiss Coffee OC-45

Paint-5 - Doors frames
Manufacture: To be selected
Style: Semi Gloss
Color: Super White

Paint-6 - Trimwork (window sill and extentions)
Manufacture: Benjamin Moore
Style: Solid
Color: Black

FLR - 1 - LVT

Mohawk LVT
Collection: Vivid Step Stone Collection
Style: 5928 Charcoal Grey
Size: 12"x24"

Contact - cell 914-953-5368
John_talio@mohawkind.com
Mohawkgroup.com

FLR - 2

EXPOXY FLOOR SYSTEM
(By Owner - TBD)

CPT-1

Mohawk CPT-1- CARPET PLANK
Collection: Expedition Collection
Style: Digital Terrain - 978 Mineral
Size: 12"x36" Plank

Contact - cell 914-953-5368
John_talio@mohawkind.com
Mohawkgroup.com

QUARTZ TOP - 1 -
for Counters at kitchen and bathroom
https://www.wilsonart.com/north-cascades
Wilsonart / North Cascades / Quartz G4035

CT-1 Ceramic Tile
Manufacture: NEW 'STONEPEAK' 'SIMPLY MODERN' PORCELAIN GLAZED 12X24 FLOOR TILE IN 'CREME' Located at mens & womens rooms as scheduled. Provide CREME MARFIL - ADA TAPERED marble saddle transition at entry door for each room. Grout - TO BE SELECTED BY ARCHITECT.

CT-2 Ceramic Tile 'STONEPEAK' 'SIMPLY MODERN' PORCELAIN GLAZED 6X12 COVE BASE IN 'CREME'

CT-3 Ceramic wall Tile NEW 'STONEPEAK' 'SIMPLY MODERN' PORCELAIN GLAZED 12X24 TILE IN 'CREME'

CT-4 Ceramic wall ACCENT Tile NEW 'STONEPEAK' 'SIMPLY MODERN' PORCELAIN GLAZED 2X2 MOSAIC TILE IN 'GREY'

CT-5 Ceramic wall Tile TOP TERMINATION 'STONEPEAK' 'SIMPLY MODERN' PORCELAIN GLAZED 12X24 TILE IN 'CREME' UP TO CLG. HT.

CT-6 Tile Backsplash at Kitchen 'STONEPEAK' Shadows - white - 4"x12" Matte

Base-1

Style: RUBBER BASE - JOHNSONITE PERCEPTIONS - REVEAL 4.25" PROFILE - 40 GREY

ACT-1
Manufacture: USG GRID & TILE

Style: DONN AX Ceiling

Suspension System - 15/16" all-aluminum system with

MILLENNIA® ClimaPlus™ Acoustical Ceiling Panels

CABINETS -
https://www.bertch.com/products/kitchen/door-styles/detail/i5/visage/

Door Style: Visage (Marketplace)
Wood: Birch
Color: Lighthouse

STAIRWELL RISERS AND TREAD SYSTEM -
Johnsonite - Tarkett Commercial -
Tread and riser system - w/ tactile edge stringers and railing componets primed and painted painted to match color selected by architect.

FINISH MATERIAL AND GENERAL NOTES

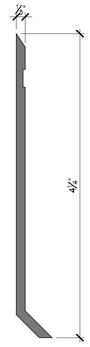
FINISH MATERIAL GENERAL NOTES:

A. SEE FINISH SCHEDULE FOR ADDITIONAL NOTES AND INFORMATION.
B. (MR GNB 1) = MOISTURE RESITANT GYPSUM BOARD SHALL USG 'MOLD TOUGH' GREEN BOARD OR EQUAL.
C. (MR GNB 2) = MOISTURE RESITANT GYPSUM BOARD SHALL BE 'AQUA TOUGH - AR' TILE BACKER BOARD OR EQUAL.
G. (MR GNB 3) = MOISTURE RESITANT EXACORE PANELS -SEE WALL SECTIONS
E. ALL TILE AREAS EXCEPT SHOWERS UNITS ARE THIN SET APPLICATIONS.
H. SCHEDULE IS FOR ALL ENTIRE ROOM FLOOR,WALL AND CEILING FINISHES AS NOTED.

GENERAL NOTES:

1. ALL BATHROOMS SHALL RECEIVE MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL WALLS . TILED WALLS TO RECEIVE TILE BACKER (REFER TO PARTITION TYPES).
2. ALL GYPSUM BOARD WALLS AND CEILINGS TO BE PRIMED AND RECEIVE TNO COATS OF FINISH PAINT.
3. ALL CEILING GRIDS TO BE CENTERED IN EACH INDIVIDUAL SPACE, BUT DO NOT ALLOW LESS THAN 6" OF TILE AGAINST WALLS. SEE RCP'S FOR DETAILED LAYOUTS.
4. ALL DOOR FRAMES TO BE PAINTED.
5. ALL CLOSETS SHALL HAVE A SHELF AND ROD - SEE DETAIL. HANGING RODS SHALL BE 1-1/4" ROUND CHROME PLATED.
6. THE EPOXY FLOOR FINISH SCOPE OF WORK SHALL INCLUDE A MINIMUM OF (3) EPOXY COLORS TO BE LAID OUT IN FLOOR PATTERNS DETERMINED BY OWNER.
7. WHERE SCHEDULED AS WALL FINISH, EPOXY PAINT TO EXTEND UP THE FULL HEIGHT OF EXPOSED WALL. IF SPACE CONTAINS HUNG CEILING, EPOXY WALL PAINT TO EXTEND UP 6" PAST CEILING LINE.
8. ALL NON-CARPETED WALKING SURFACES AS PART OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.

FINISH DETAILS - BASE
SEE WINDOW AND DOOR DETAILS



JOHNSONITE PERCEPTIONS RECESS W/ TOE 4.25"

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

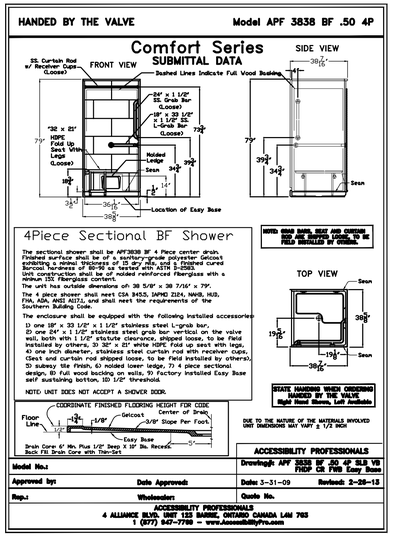
FINISH SCHEDULE AND MATERIALS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

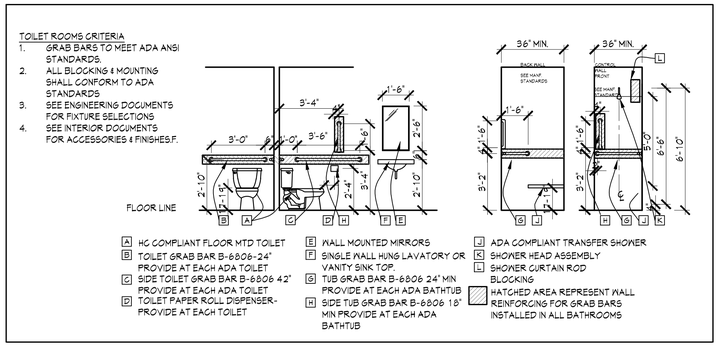
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

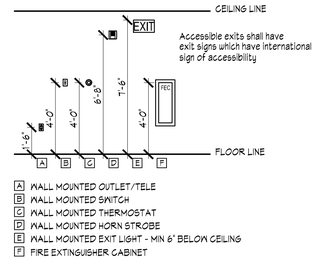
A-19

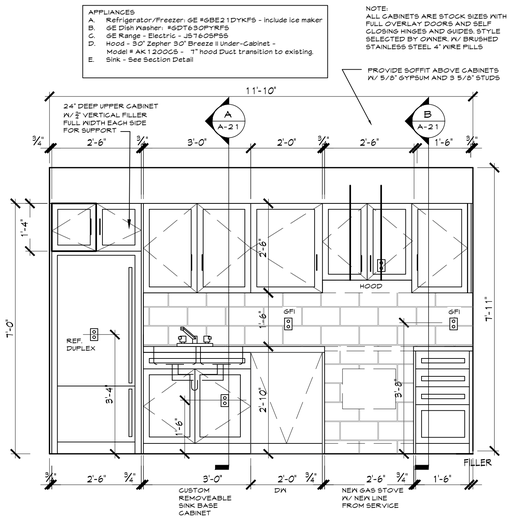


1 ENLARGED KITCHEN ELEVATION
1/2" = 1'-0"

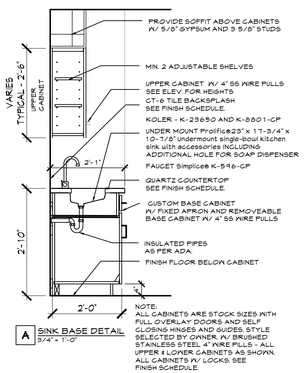


2 TYPICAL ADA MOUNTING HEIGHTS
1/2" = 1'-0"

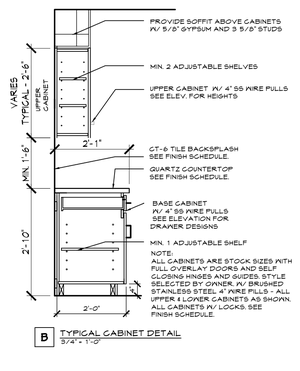




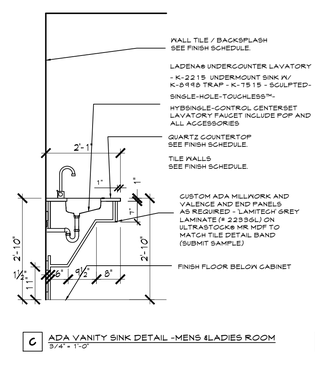
1 ENLARGED KITCHEN ELEVATION
1/2" = 1'-0"



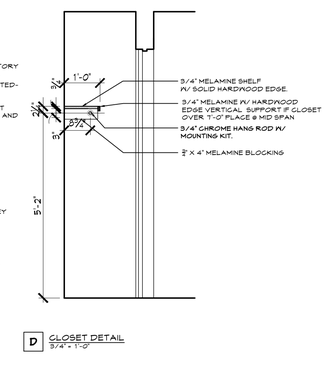
A SINK BASE DETAIL
3/4" = 1'-0"



B TYPICAL CABINET DETAIL
3/4" = 1'-0"



C ADA VANITY SINK DETAIL -MENS &LADIES ROOM
3/4" = 1'-0"



D GLOSET DETAIL
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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

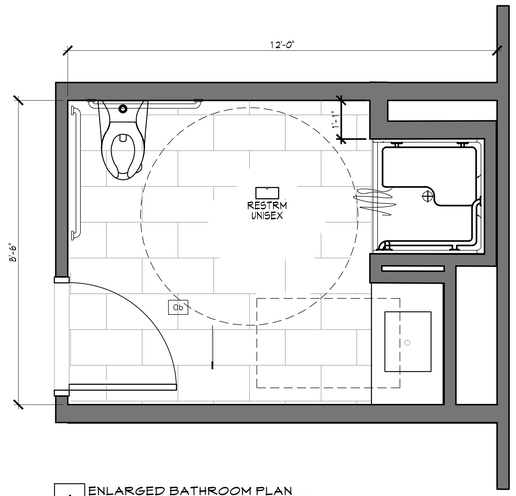
MILLWORK DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

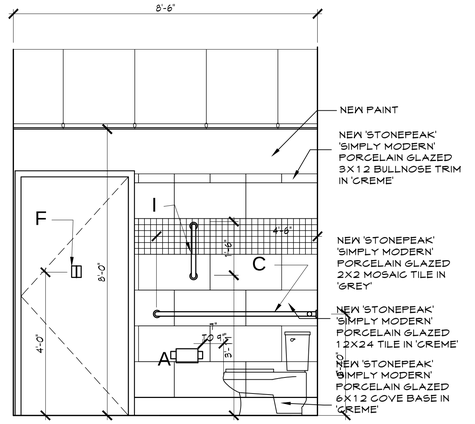
REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

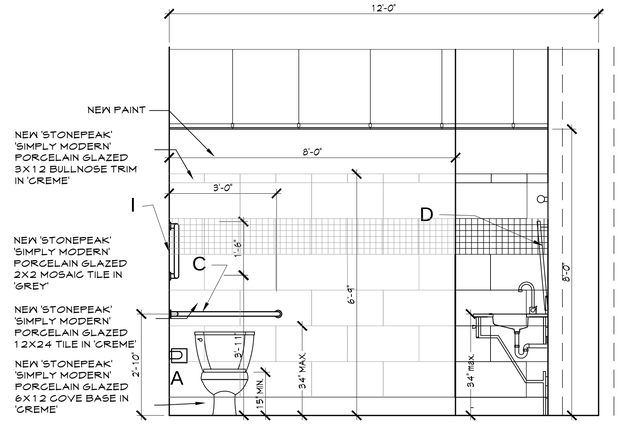
A-20



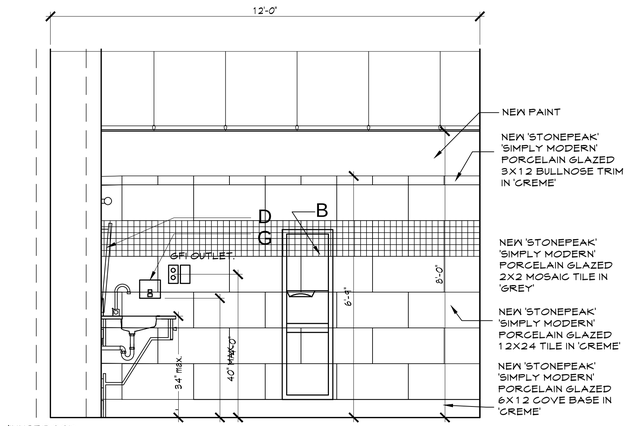
1 ENLARGED BATHROOM PLAN
1/2" = 1'-0"



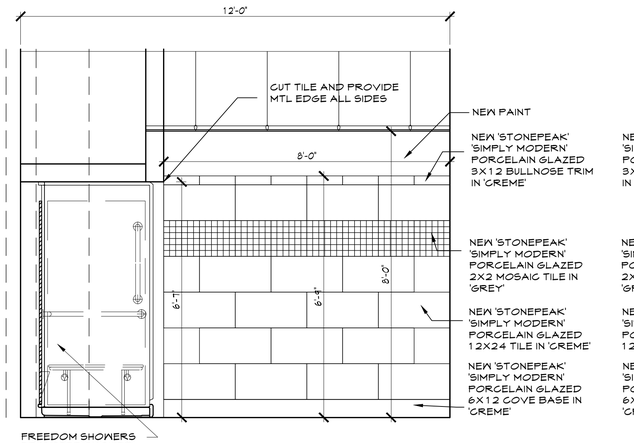
2 BATHROOM ELEVATION
1/2" = 1'-0"



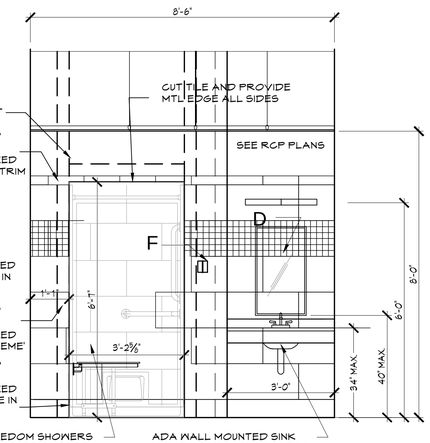
3 BATHROOM ELEVATION
1/2" = 1'-0"



4 BATHROOM ELEVATION
1/2" = 1'-0"



5 BATHROOM ELEVATION
1/2" = 1'-0"



6 BATHROOM ELEVATION
1/2" = 1'-0"

BATHROOM ACCESSORIES

TAG	DESCRIPTION	MANUFACTURER	REMARKS
A	TOILET TISSUE DISPENSER	B-4288	
B	HAND TISSUE DISPENSER UNIT	B43944 - SURFACE MOUNTED	
C	ADA-ACCESSIBLE GRAB BARS	BOBRICK - MISC. AS SHOWN	
D	MIRROR	B-294 TILTING ADA MIRROR	
E	MARBLE SADDLE - ½" MAX. FLR. TRANS.		
F	HOOK	B-212 HOOK W/ BUMPER	
G	SOAP DISPENSER	B-4112	
H	SWING UP ADA GRAB BAR	N/A	
I	VERTICAL GRAB BAR	18" CUSTOM GRAB BAR - MOUNTED TO WINDOW JAMB & CUSTOM BENT TO MEET ADA.	
J	ADA TRANSFER SHOWER - FREEDOM SHOWER - COMFORT SERIES	Model APF 3838 BF .50 4P	INCLUDE ALL ACCESSORIES - INCLUDING FITURE AND FITTINGS AND DRAIN AND SHOWER ROD, CURTAIN AND HOOKS

NOTES:

1. MANUFACTURER FOR ALL ACCESSORIES TO BE "BOBRICK" UNLESS OTHER WISE NOTED
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
3. COORDINATE WORK WITH ALL RELATED TRADES
4. PROVIDE ROUGH FRAMING AND BLOCKING FOR ALL ACCESSORIES.

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New York 10520

Drawing Title

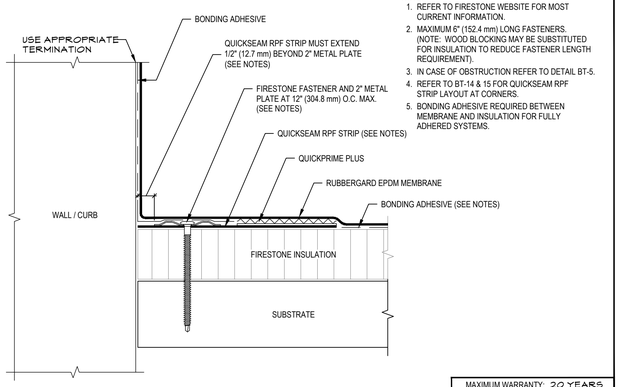
BATHROOM DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 011185 STATE OF NEW YORK

Drawing No.

A-21



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
3. IN CASE OF OBSTRUCTION REFER TO DETAIL BT-5.
4. REFER TO BT-14 & 15 FOR QUICKSEAM RPF STRIP LAYOUT AT CORNERS.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.

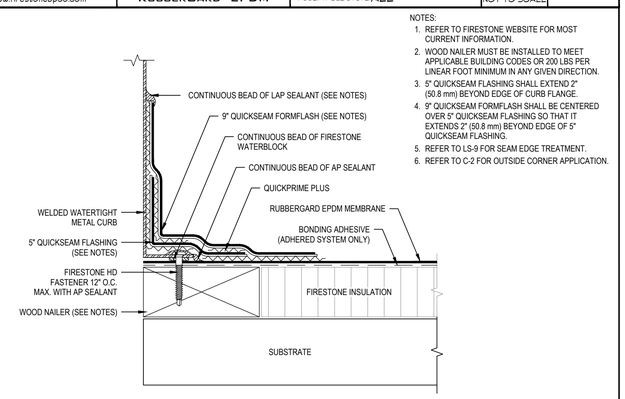
MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY GOVERS YOU BETTER. www.firestonebpco.com

BASE TIE-IN WITH QUICKSEAM RPF AND 2" METAL PLATES FASTENED TO DECK

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: ALL

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-1



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
3. 5" QUICKSEAM FLASHING SHALL EXTEND 2" (50.8 mm) BEYOND EDGE OF CURB FLANGE.
4. 9" QUICKSEAM FORMFLASH SHALL BE CENTERED OVER 5" QUICKSEAM FLASHING SO THAT IT EXTENDS 2" (50.8 mm) BEYOND EDGE OF 5" QUICKSEAM FLASHING.
5. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
6. REFER TO C-2 FOR OUTSIDE CORNER APPLICATION.

MAXIMUM WARRANTY: 20 YEARS

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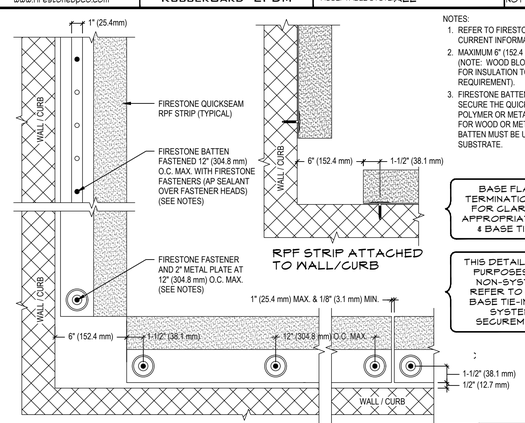
BASE TIE-IN AT WELDED WATERTIGHT CURB (FLANGES UNDER 2")

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: ALL

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-12



RPF STRIP ATTACHED TO WALL/CURB

NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
3. FIRESTONE BATTEN STRIP MAY BE USED TO SECURE THE QUICKSEAM RPF STRIP TO THE WALL. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.

BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

THIS DETAIL IS FOR LAYOUT PURPOSES ONLY AND IS NON-SYSTEM SPECIFIC. REFER TO APPROPRIATE BASE TIE-IN DETAILS FOR SYSTEM SPECIFIC SECUREMENT OPTIONS.

MAXIMUM WARRANTY: 20 YEARS

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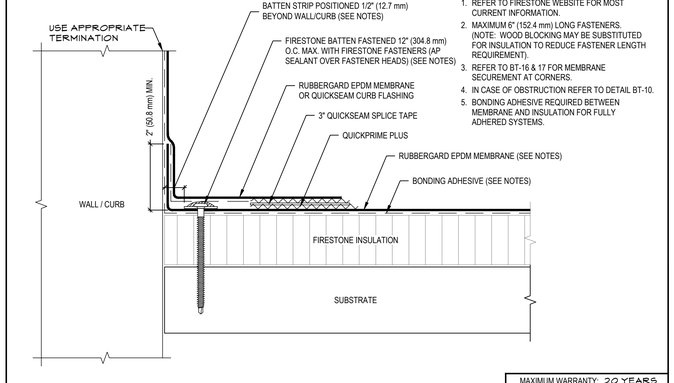
QUICKSEAM RPF LAYOUT AT INSIDE CORNER

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: NON-SPECIFIC

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-15



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3. REFER TO BT-16 & 17 FOR MEMBRANE SECUREMENT AT CORNERS.
4. IN CASE OF OBSTRUCTION REFER TO DETAIL BT-10.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.

MAXIMUM WARRANTY: 20 YEARS

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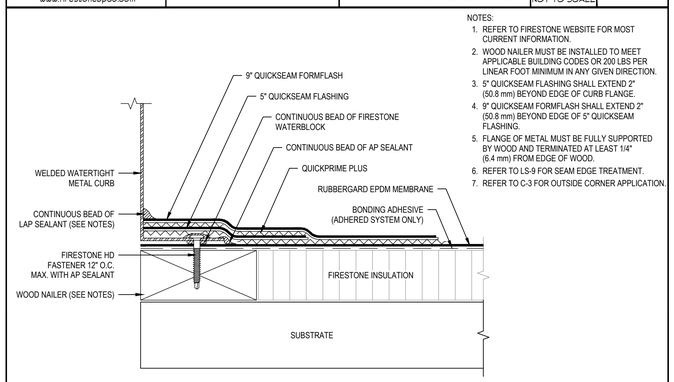
BASE TIE-IN WITH BATTEN FASTENED TO DECK

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: ADHERED, MAS

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-8



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
3. 5" QUICKSEAM FLASHING SHALL EXTEND 2" (50.8 mm) BEYOND EDGE OF CURB FLANGE.
4. 9" QUICKSEAM FORMFLASH SHALL EXTEND 2" (50.8 mm) BEYOND EDGE OF 5" QUICKSEAM FLASHING.
5. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/4" (6.4 mm) FROM EDGE OF WOOD.
6. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
7. REFER TO C-3 FOR OUTSIDE CORNER APPLICATION.

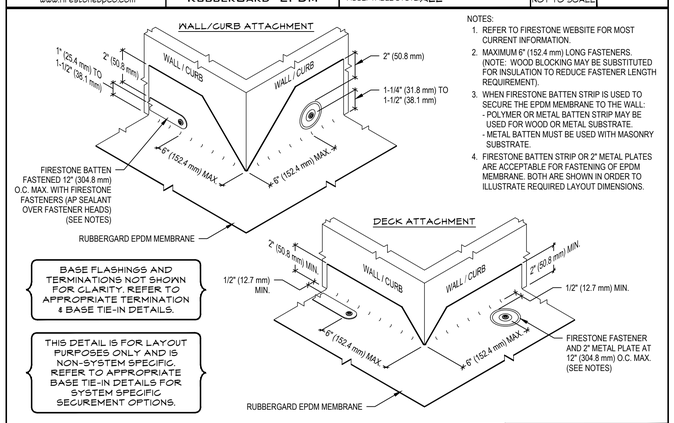
MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY GOVERS YOU BETTER. www.firestonebpco.com

BASE TIE-IN AT WELDED WATERTIGHT CURB (FLANGES 2"-3")

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: ALL

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-13



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
3. WHEN FIRESTONE BATTEN STRIP IS USED TO SECURE THE EPDM MEMBRANE TO THE WALL:
   - POLYMER OR METAL BATTEN STRIP MAY BE USED FOR WOOD OR METAL SUBSTRATE.
   - METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.
4. FIRESTONE BATTEN STRIP OR 2" METAL PLATES ARE ACCEPTABLE FOR FASTENING OF EPDM MEMBRANE. BOTH ARE SHOWN IN ORDER TO ILLUSTRATE REQUIRED LAYOUT DIMENSIONS.

BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

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MAXIMUM WARRANTY: 20 YEARS

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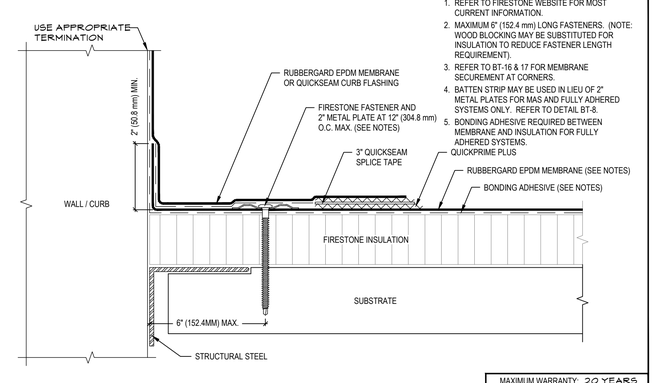
MEMBRANE SECUREMENT AT OUTSIDE CORNER

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: NON-SPECIFIC

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-16



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
3. REFER TO BT-16 & 17 FOR MEMBRANE SECUREMENT AT CORNERS.
4. BATTEN STRIP MAY BE USED IN LIEU OF 2" METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY. REFER TO DETAIL BT-8.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.

MAXIMUM WARRANTY: 20 YEARS

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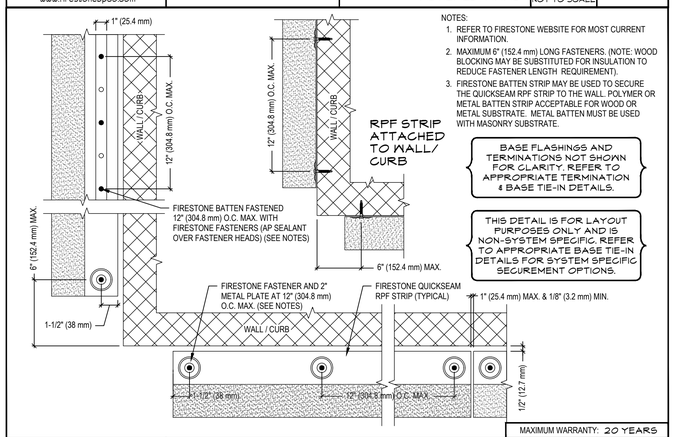
BASE TIE-IN WITH 2" METAL PLATES - DECK OBSTRUCTION

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: ADHERED, RMAS

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-10



RPF STRIP ATTACHED TO WALL/ CURB

NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
3. FIRESTONE BATTEN STRIP MAY BE USED TO SECURE THE QUICKSEAM RPF STRIP TO THE WALL. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.

BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

THIS DETAIL IS FOR LAYOUT PURPOSES ONLY AND IS NON-SYSTEM SPECIFIC. REFER TO APPROPRIATE BASE TIE-IN DETAILS FOR SYSTEM SPECIFIC SECUREMENT OPTIONS.

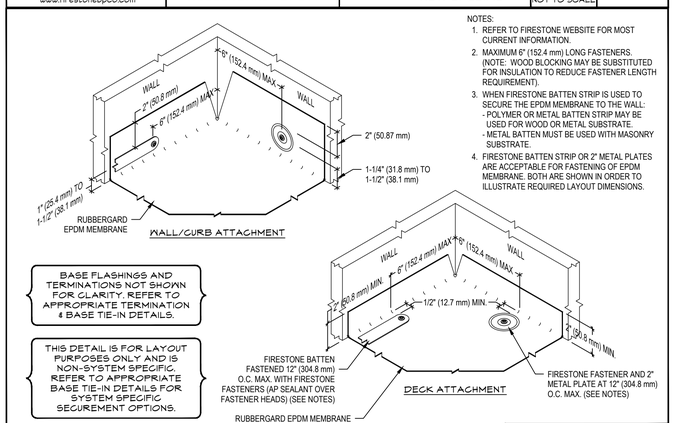
MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY GOVERS YOU BETTER. www.firestonebpco.com

QUICKSEAM RPF LAYOUT AT OUTSIDE CORNER

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: NON-SPECIFIC

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-14



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
3. WHEN FIRESTONE BATTEN STRIP IS USED TO SECURE THE EPDM MEMBRANE TO THE WALL:
   - POLYMER OR METAL BATTEN STRIP MAY BE USED FOR WOOD OR METAL SUBSTRATE.
   - METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.
4. FIRESTONE BATTEN STRIP OR 2" METAL PLATES ARE ACCEPTABLE FOR FASTENING OF EPDM MEMBRANE. BOTH ARE SHOWN IN ORDER TO ILLUSTRATE REQUIRED LAYOUT DIMENSIONS.

BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

THIS DETAIL IS FOR LAYOUT PURPOSES ONLY AND IS NON-SYSTEM SPECIFIC. REFER TO APPROPRIATE BASE TIE-IN DETAILS FOR SYSTEM SPECIFIC SECUREMENT OPTIONS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY GOVERS YOU BETTER. www.firestonebpco.com

MEMBRANE SECUREMENT AT INSIDE CORNER

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEM: NON-SPECIFIC

ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. BT-17

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914-761-6006 (F) 914-761-4919
John P. Sullivan, FAIA - Lisc. # 017185 Registered through 4/30/24

Date Issue
1/18/2024 CLIENT REVIEW SET
4/8/2024 CLIENT REVIEW SET
5/7/24 CONSTRUCTION SET

I herby state to the best of my professional knowledge and abilities that the proposed building design represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Current New York State Energy Conservation Construction Code and adopted Stretch Code. The signature and seal on such documents attests to the above statement.

It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter an item in any way. If an item bearing the seal of an architect is altered, the altering architect shall affix to his item the seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

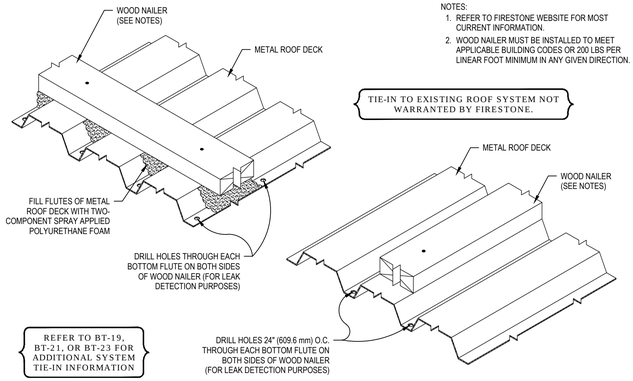
Drawing Title

ROOF DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No. A-22



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.

TIE-IN TO EXISTING ROOF SYSTEM NOT WARRANTED BY FIRESTONE.

REFER TO BT-19, BT-21, OR BT-23 FOR ADDITIONAL SYSTEM TIE-IN INFORMATION

MAXIMUM WARRANTY: NONE

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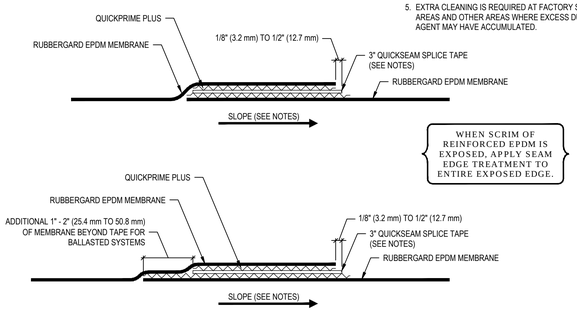
TIE-IN WITH METAL ROOF DECK		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. BT-24
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. END LAPS OF QUICKSEAM SPLICE TAPE MUST OVERLAP A MINIMUM OF 1" (25.4 mm). REFER TO LS-2.
3. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
4. SEAMS MAY RUN PARALLEL TO SLOPE.
5. EXTRA CLEANING IS REQUIRED AT FACTORY SPLICE AREAS AND OTHER AREAS WHERE EXCESS DUSTING AGENT MAY HAVE ACCUMULATED.

WHEN SCRIM OF REINFORCED EPDM IS EXPOSED, APPLY SEAM EDGE TREATMENT TO ENTIRE EXPOSED EDGE.

MAXIMUM WARRANTY: 20 YEARS

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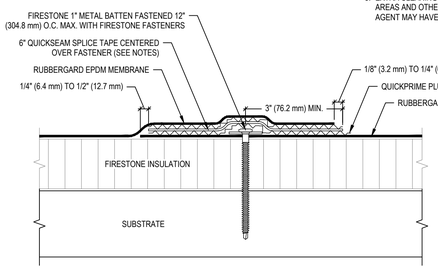
LAP SPLICE		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. LS-1
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

WHEN SCRIM OF REINFORCED EPDM IS EXPOSED, APPLY SEAM EDGE TREATMENT TO ENTIRE EXPOSED EDGE.



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
3. END LAPS OF QUICKSEAM SPLICE TAPE MUST OVERLAP A MINIMUM OF 1" (25.4 mm). REFER TO LS-2.
4. SEE LS-1 FOR HEADLAPS WITHOUT BATTEN.
5. EXTRA CLEANING IS REQUIRED AT FACTORY SPLICE AREAS AND OTHER AREAS WHERE EXCESS DUSTING AGENT MAY HAVE ACCUMULATED.

MAXIMUM WARRANTY: 20 YEARS

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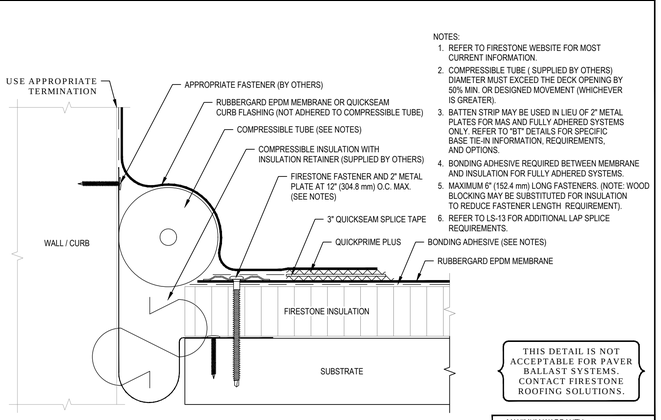
LAP SPLICE WITH 1" METAL BATTEN AND 6" QUICKSEAM SPLICE TAPE		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. LS-10
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: RMAS,MAS,BITS	NOT TO SCALE	



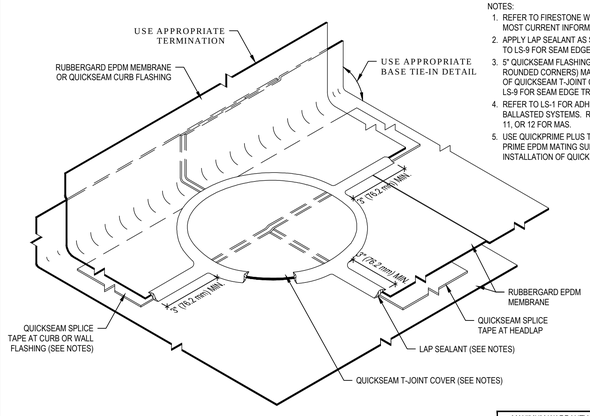
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNED MOVEMENT (WHICHEVER IS GREATER).
3. BATTEN STRIP MAY BE USED IN LIEU OF 2" METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY. REFER TO "BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
5. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
6. REFER TO LS-13 FOR ADDITIONAL LAP SPLICE REQUIREMENTS.

THIS DETAIL IS NOT ACCEPTABLE FOR PAVER BALLAST SYSTEMS. CONTACT FIRESTONE ROOFING SOLUTIONS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

EXPANSION JOINT (FIELD FABRICATED) WITH QUICKSEAM SPLICE TAPE - ROOF TO WALL		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. E-2
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ADHERED, RMAS	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY LAP SEALANT AS SHOWN. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
3. 5" QUICKSEAM FLASHING (5"x5" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF QUICKSEAM T-JOINT COVER. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
4. REFER TO LS-1 FOR ADHERED AND BALLASTED SYSTEMS. REFER TO LS-10, 11, OR 12 FOR MAS.
5. USE QUICKPRIME PLUS TO CLEAN AND PRIME EPDM MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

MAXIMUM WARRANTY: 20 YEARS

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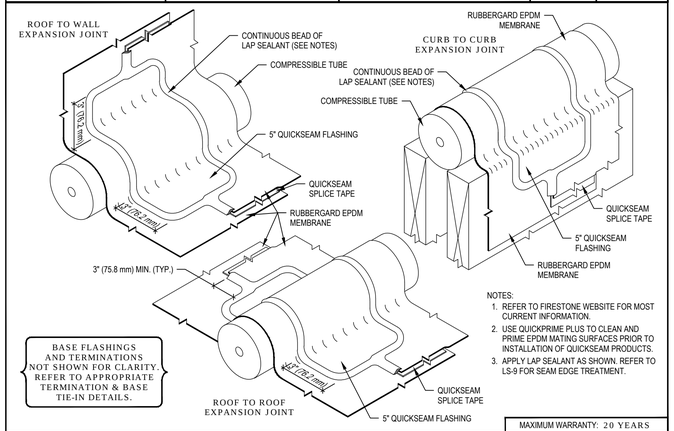
LAP SPLICE WITH HEADLAP UNDER CURB OR WALL FLASHING USING QUICKSEAM T-JOINT COVER		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. LS-6
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. USE QUICKPRIME PLUS TO CLEAN AND PRIME EPDM MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.
3. APPLY LAP SEALANT AS SHOWN. REFER TO LS-9 FOR SEAM EDGE TREATMENT.

BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

MAXIMUM WARRANTY: 20 YEARS

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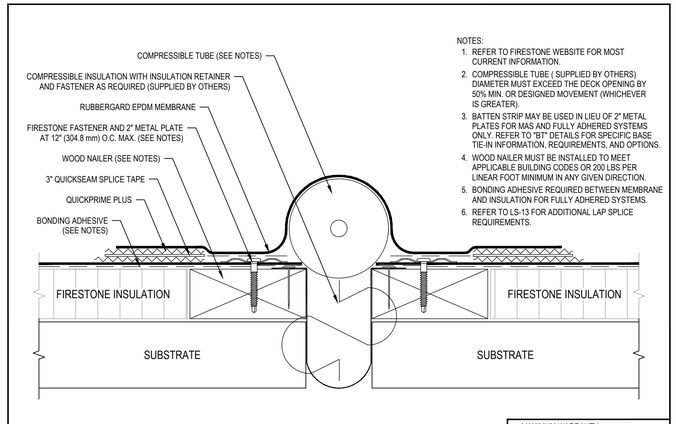
LAP SPLICE AT EXPANSION JOINT TUBE		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. LS-13
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNED MOVEMENT (WHICHEVER IS GREATER).
3. BATTEN STRIP MAY BE USED IN LIEU OF 2" METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY. REFER TO "BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
6. REFER TO LS-13 FOR ADDITIONAL LAP SPLICE REQUIREMENTS.

MAXIMUM WARRANTY: 20 YEARS

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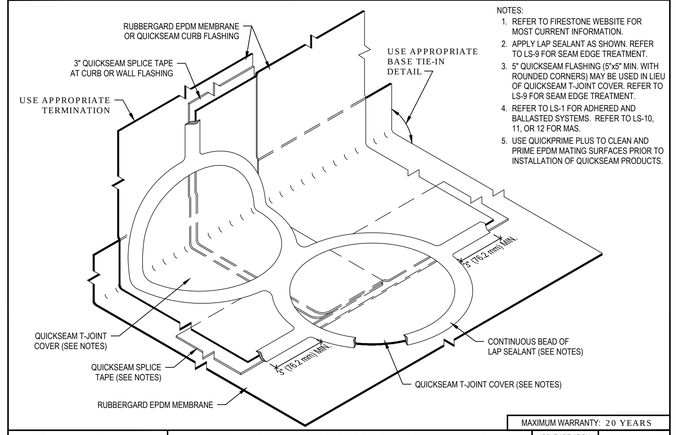
EXPANSION JOINT (FIELD FABRICATED) WITH QUICKSEAM SPLICE TAPE AND WOOD NAILER - ROOF TO ROOF		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. E-4
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ADHERED, RMAS	NOT TO SCALE	

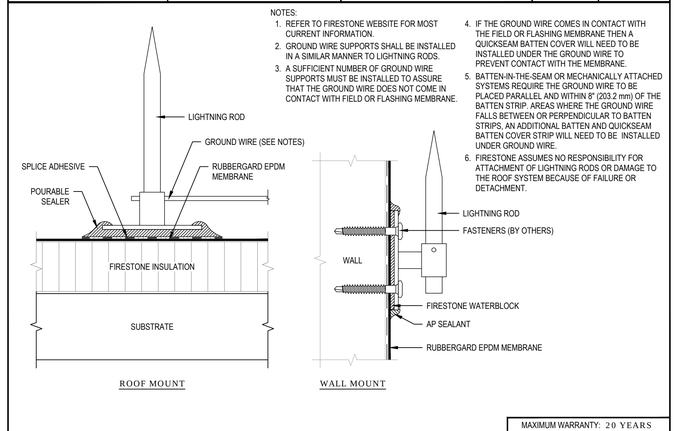


NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY LAP SEALANT AS SHOWN. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
3. 5" QUICKSEAM FLASHING (5"x5" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF QUICKSEAM T-JOINT COVER. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
4. REFER TO LS-1 FOR ADHERED AND BALLASTED SYSTEMS. REFER TO LS-10, 11, OR 12 FOR MAS.
5. USE QUICKPRIME PLUS TO CLEAN AND PRIME EPDM MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

LAP SPLICE AT CURB OR WALL FLASHING USING QUICKSEAM T-JOINT COVER		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. LS-7
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. GROUND WIRE SUPPORTS SHALL BE INSTALLED IN A SIMILAR MANNER TO LIGHTNING RODS.
3. A SUFFICIENT NUMBER OF GROUND WIRE SUPPORTS MUST BE INSTALLED TO ASSURE THAT THE GROUND WIRE DOES NOT COME IN CONTACT WITH FIELD OR FLASHING MEMBRANE.
4. IF THE GROUND WIRE COMES IN CONTACT WITH THE FIELD OR FLASHING MEMBRANE THEN A QUICKSEAM BATTEN COVER WILL NEED TO BE INSTALLED UNDER THE GROUND WIRE TO PREVENT CONTACT WITH THE MEMBRANE.
5. BATTEN-IN-THE-SEAM OR MECHANICALLY ATTACHED SYSTEMS REQUIRE THE GROUND WIRE TO BE PLACED PARALLEL AND WITHIN 5" (203.2 mm) OF THE BATTEN STRIP. AREAS WHERE THE GROUND WIRE FALLS BETWEEN OR PERPENDICULAR TO BATTEN STRIPS, AN ADDITIONAL BATTEN AND QUICKSEAM BATTEN COVER STRIP WILL NEED TO BE INSTALLED UNDER GROUND WIRE.
6. FIRESTONE ASSUMES NO RESPONSIBILITY FOR ATTACHMENT OF LIGHTNING RODS OR DAMAGE TO THE ROOF SYSTEM BECAUSE OF FAILURE OR DETACHMENT.

MAXIMUM WARRANTY: 20 YEARS

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LIGHTNING ROD		ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. M-6
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

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914-761-6006 (F) 914-761-4919
John P. Sullivan, FAIA - Lisc. # 017185 Registered through 4/30/24

Date Issue
1/18/2024 CLIENT REVIEW SET
4/8/2024 CLIENT REVIEW SET
5/7/24 CONSTRUCTION SET

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

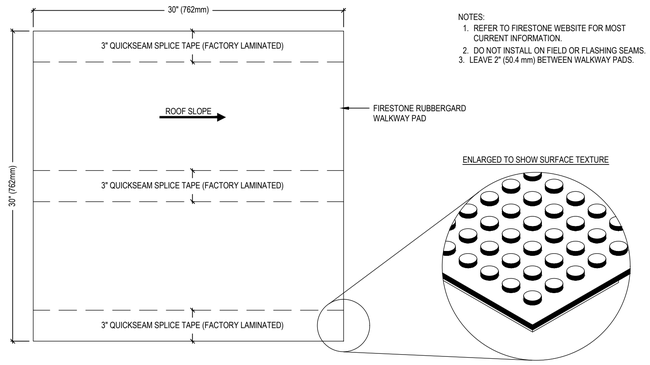
ROOF DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 017185 STATE OF NEW YORK

Drawing No.

A-23



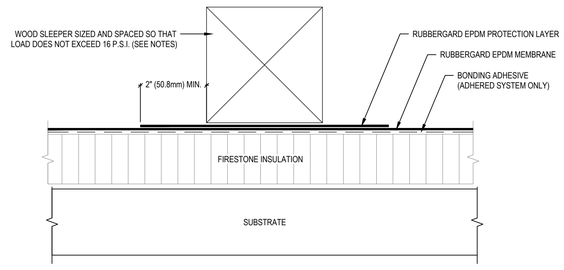
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. DO NOT INSTALL ON FIELD OR FLASHING SEAMS.
3. LEAVE 2" (50.4 mm) BETWEEN WALKWAY PADS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

FIRESTONE RUBBERGARD QUICKSEAM WALKWAY PAD

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. M-1



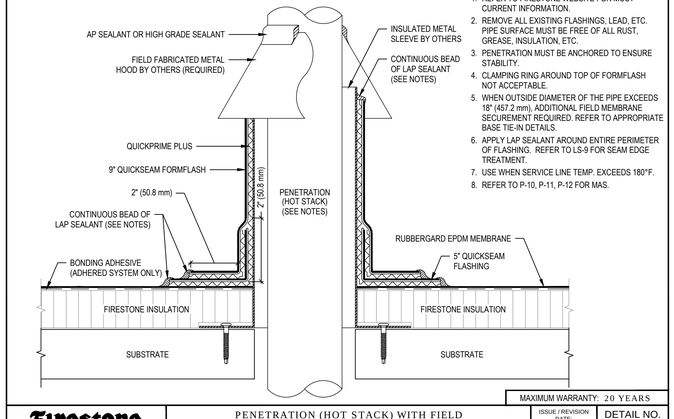
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. FIRESTONE RED SHIELD PIPE AND EQUIPMENT SUPPORTS ARE RECOMMENDED IN PLACE OF WOOD SLEEPERS. REFER TO CURRENT TECHNICAL INFORMATION SHEETS.
3. DO NOT INSTALL WOOD SLEEPER OVER BATTEN STRIPS, FASTENER HEADS, METAL PLATES OR FIELD SEAMS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

WOOD SLEEPER

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. M-4



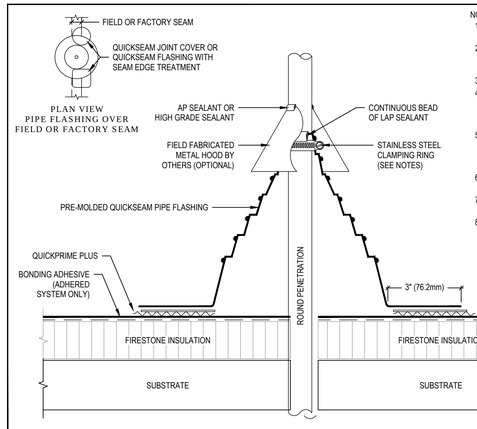
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PENETRATION MUST BE ANCHORED TO ENSURE STABILITY.
4. CLAMPING RING AROUND TOP OF FORMFLASH NOT ACCEPTABLE.
5. WHEN OUTSIDE DIAMETER OF THE PIPE EXCEEDS 18" (457.2 mm), ADDITIONAL FIELD MEMBRANE SECUREMENT REQUIRED. REFER TO APPROPRIATE BASE TIE-IN DETAILS.
6. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
7. USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F.
8. REFER TO P-10, P-11, P-12 FOR MAS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

PENETRATION (HOT STACK) WITH FIELD FABRICATED FLASHING

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. P-4



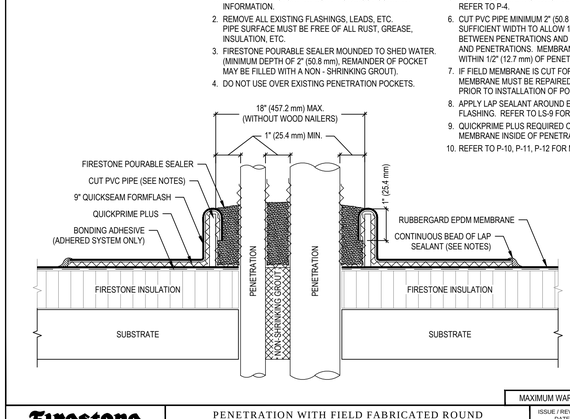
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOLDED QUICKSEAM PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
5. APPLY LAP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
6. PRE-MOLDED PIPE FLASHING FITS 1" (25.4 mm) - 6" (152.4 mm) PENETRATION SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO P-4.
8. REFER TO P-10, P-11, P-12 FOR MAS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

PENETRATION WITH QUICKSEAM PIPE FLASHING

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. P-1



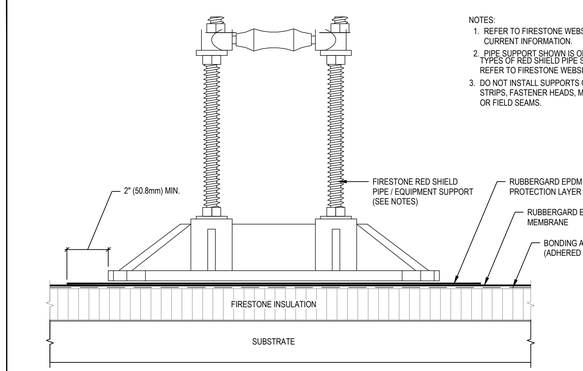
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNDED TO SHED WATER. (MINIMUM DEPTH OF 2" (50.8 mm), REMAINDER OF POCKET MAY BE FILLED WITH A NON - SHRINKING GROUT).
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO P-4.
6. CUT PVC PIPE MINIMUM 2" (50.8 mm) HIGH AND OF SUFFICIENT WIDTH TO ALLOW 1" (25.4 mm) OF SPACE BETWEEN PENETRATIONS AND BETWEEN THE PVC SHELL AND PENETRATIONS. MEMBRANE MUST EXTEND TO WITHIN 1/2" (12.7 mm) OF PENETRATION.
7. IF FIELD MEMBRANE IS CUT FOR INSTALLATION, THE MEMBRANE MUST BE REPAIRED WITH EPDM MEMBRANE PRIOR TO INSTALLATION OF POURABLE SEALER POCKET.
8. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
9. QUICKPRIME PLUS REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATION POCKET.
10. REFER TO P-10, P-11, P-12 FOR MAS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

PENETRATION WITH FIELD FABRICATED ROUND PVC PENETRATION POCKET

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. P-6



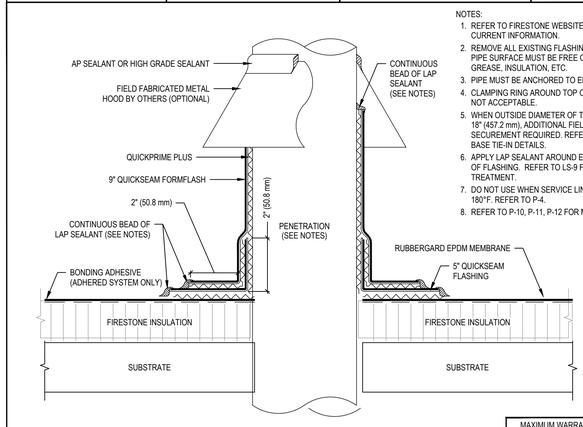
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. PIPE SUPPORT SHOWN IS ONE OF MANY TYPES OF RED SHIELD PIPE SUPPORTS OFFERED. REFER TO FIRESTONE WEBSITE.
3. DO NOT INSTALL SUPPORTS OVER BATTEN STRIPS, FASTENER HEADS, METAL PLATES OR FIELD SEAMS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

RED SHIELD PIPE / EQUIPMENT SUPPORT

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. M-3



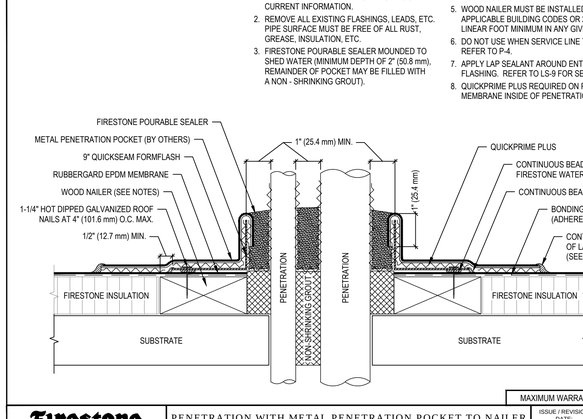
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. CLAMPING RING AROUND TOP OF FORMFLASH NOT ACCEPTABLE.
5. WHEN OUTSIDE DIAMETER OF THE PIPE EXCEEDS 18" (457.2 mm), ADDITIONAL FIELD MEMBRANE SECUREMENT REQUIRED. REFER TO APPROPRIATE BASE TIE-IN DETAILS.
6. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO P-4.
8. REFER TO P-10, P-11, P-12 FOR MAS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

PENETRATION WITH FIELD FABRICATED FLASHING

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. P-3



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNDED TO SHED WATER (MINIMUM DEPTH OF 2" (50.8 mm), REMAINDER OF POCKET MAY BE FILLED WITH A NON - SHRINKING GROUT).
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO P-4.
7. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
8. QUICKPRIME PLUS REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATION POCKET.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

PENETRATION WITH METAL PENETRATION POCKET TO NAILER

RUBBERGARD™ EPDM | ACCEPTABLE SYSTEMS: ALL | ISSUE / REVISION DATE: 1/1/2006 | NOT TO SCALE | DETAIL NO. P-7

Sullivan Architecture, P.C.
31 Mamaroneck Avenue
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914-761-6006 (F) 914-761-4919
John P. Sullivan, FAIA - Lisc.# 011185 Registered through 4/30/24

Date Issue
1/18/2024 CLIENT REVIEW SET
4/8/2024 CLIENT REVIEW SET
5/7/24 CONSTRUCTION SET

I herby state to the best of my professional knowledge and abilities that the proposed building design represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Current New York State Energy Conservation Construction Code and adopted Stretch Code. The signature and seal on such documents attests to the above statement.

It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter an item in any way. If an item bearing the seal of an architect is altered, the altering architect shall affix to his item the seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

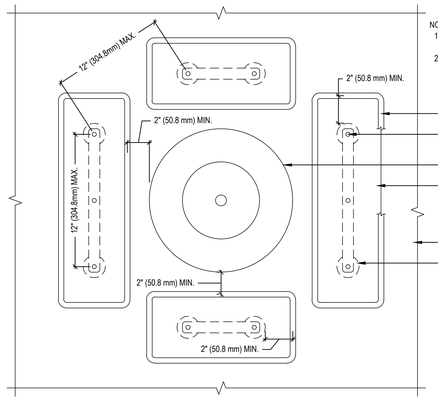
ROOF DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

REGISTERED ARCHITECT JOHN P. SULLIVAN No. 011185 STATE OF NEW YORK

Drawing No.

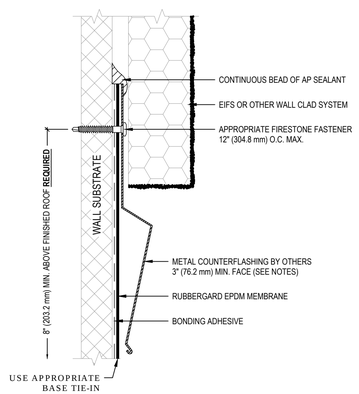
A-24



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING. REFER TO LS-9 FOR SEAM EDGE TREATMENT.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	MEMBRANE SECUREMENT AT PENETRATION WITH BATTEN AND QUICKSEAM BATTEN COVER	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. P-12
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: MAS ONLY	NOT TO SCALE	

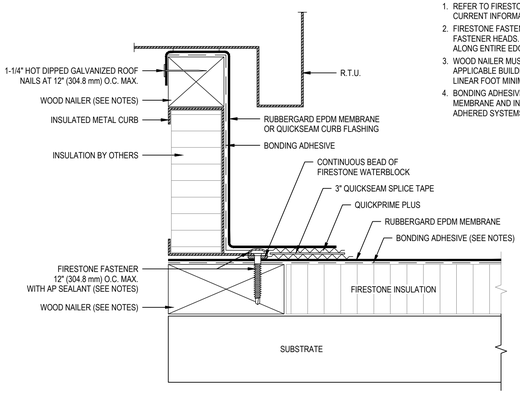


NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.

WALL SYSTEMS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

MAXIMUM WARRANTY: 20 YEARS

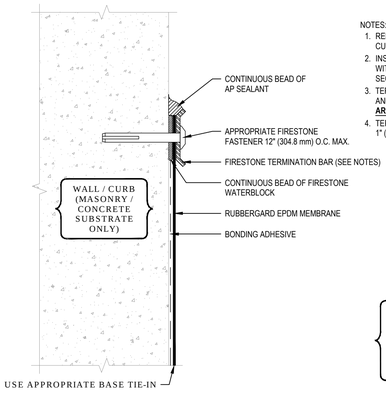
Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION AT EIFS OR WALL CLADDING	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. T-7
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. FIRESTONE FASTENER WITH AP SEALANT OVER FASTENER HEADS. AP SEALANT ALSO REQUIRED ALONG ENTIRE EDGE OF CURB FLANGE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION AT R.T.U. (UNIT FLANGE ABOVE MEMBRANE)	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. T-14
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

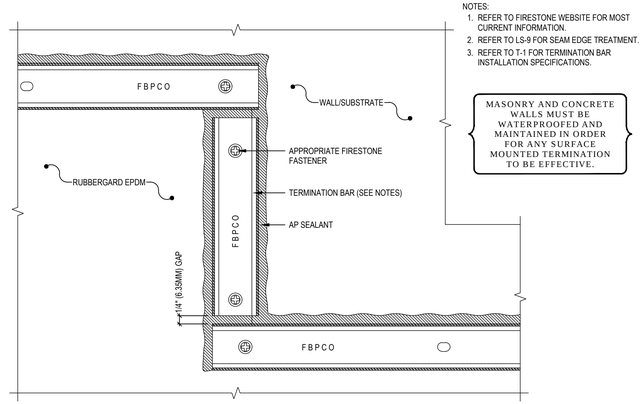


NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. INSTALL FIRESTONE TERMINATION BAR WITH 1/4" (6.4 mm) GAP BETWEEN ADJOINING SECTIONS.
3. TERMINATION BAR MUST BE CUT AT INSIDE AND OUTSIDE CORNERS. **DO NOT BEND AROUND CORNERS.**
4. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25.4 mm) MAX. OF ALL SECTION ENDS.

MASONRY AND CONCRETE WALLS / CURBS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION WITH TERMINATION BAR	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. T-1
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

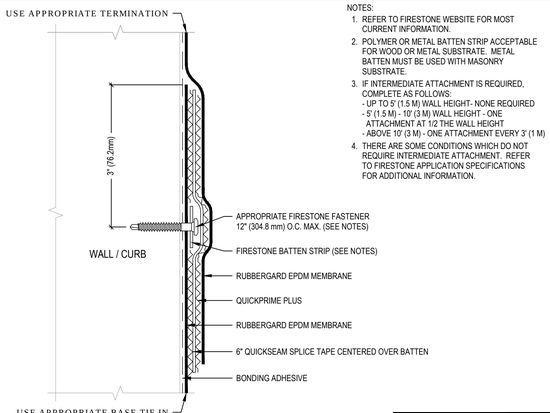


NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
3. REFER TO T-1 FOR TERMINATION BAR INSTALLATION SPECIFICATIONS.

MASONRY AND CONCRETE WALLS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

MAXIMUM WARRANTY: 20 YEARS

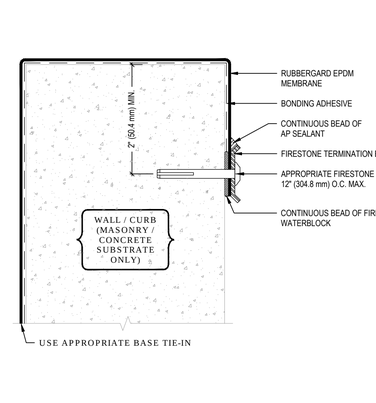
Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION WITH BAR - ELEVATION CHANGE	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. T-8
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.
3. IF INTERMEDIATE ATTACHMENT IS REQUIRED, COMPLETE AS FOLLOWS:
   - UP TO 5' (1.5 M) WALL HEIGHT- NONE REQUIRED
   - 5' (1.5 M) - 10' (3 M) WALL HEIGHT - ONE ATTACHMENT AT 1/2 THE WALL HEIGHT
   - ABOVE 10' (3 M) - ONE ATTACHMENT EVERY 3' (1 M)
4. THERE ARE SOME CONDITIONS WHICH DO NOT REQUIRE INTERMEDIATE ATTACHMENT. REFER TO FIRESTONE APPLICATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	INTERMEDIATE WALL FLASHING ATTACHMENT WITH QUICKSEAM SPLICE TAPE AND BATTEN STRIP	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. T-22
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

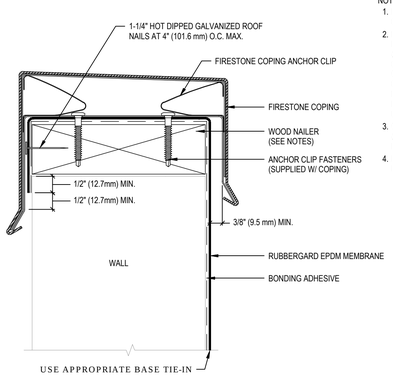


NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. INSTALL FIRESTONE TERMINATION BAR WITH 1/4" (6.4 mm) GAP BETWEEN ADJOINING SECTIONS.
3. TERMINATION BAR MUST BE CUT AT INSIDE AND OUTSIDE CORNERS. **DO NOT BEND AROUND CORNERS.**
4. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25.4 mm) MAX. OF ALL SECTION ENDS.

MASONRY AND CONCRETE WALLS / CURBS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

MAXIMUM WARRANTY: 20 YEARS

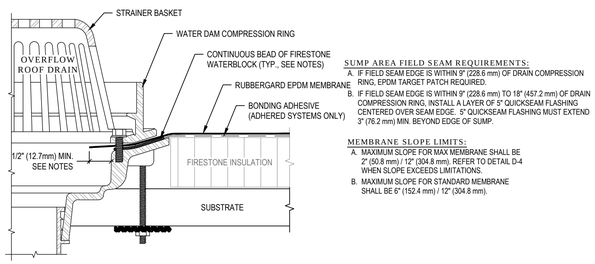
Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION ON OUTSIDE OF PARAPET WALL WITH TERMINATION BAR	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. T-2
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. NON-FIRESTONE METAL COPING IS ACCEPTABLE FOR USE IN THIS DETAIL PROVIDED FABRICATION AND INSTALLATION IS IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS. HOWEVER, WATERTIGHT INTEGRITY OF WALL AND METAL COPING SHALL BE ENSURED BY OTHERS AND BE EXCLUDED FROM WARRANTY COVERAGE IN THE EVENT NON-FIRESTONE COPING IS UTILIZED.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. FASTEN COPING CLEAT AS PER SUPPLIED INSTRUCTIONS.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION AT TOP OF WALL WITH FIRESTONE COPING	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. T-12
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" (12.7 mm) BEYOND CLAMPING RING AND SHOULD NOT BE SMALLER THAN THE DIAMETER OF THE LEADER PIPE.
3. INSULATION ADJACENT TO DRAIN TO BE APPROPRIATE FIRESTONE INSULATION WITH APPROPRIATE BONDING SURFACE.
4. FIRESTONE WATERBLOCK MIN. OF 1/2 OF 10 OZ (295 ml) TUBE PER 4" DRAIN. USE ADDITIONAL WATERBLOCK FOR LARGER DRAINS.
5. IN REROOF APPLICATIONS:
   - REMOVE EXISTING FLASHINGS DOWN TO METAL BOWL
   - REPAIR OR REPLACE BROKEN DRAIN COMPONENTS
   - DRILL AND TAP BROKEN DRAIN BOLTS AND REPLACE IF NECESSARY.

SUMP AREA FIELD SEAM REQUIREMENTS:
A. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) OF DRAIN COMPRESSION RING, EPDM TARGET PATCH REQUIRED.
B. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) TO 18" (457.2 mm) OF DRAIN COMPRESSION RING, INSTALL A LAYER OF 5" QUICKSEAM FLASHING CENTERED OVER SEAM EDGE. 5" QUICKSEAM FLASHING MUST EXTEND 3" (76.2 mm) MIN. BEYOND EDGE OF SUMP.

MEMBRANE SLOPE LIMITS:
A. MAXIMUM SLOPE FOR MAX MEMBRANE SHALL BE 2" (50.8 mm) / 12" (304.8 mm). REFER TO DETAIL D-4 WHEN SLOPE EXCEEDS LIMITATIONS.
B. MAXIMUM SLOPE FOR STANDARD MEMBRANE SHALL BE 6" (152.4 mm) / 12" (304.8 mm).

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS — NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	ROOF DRAIN WITH OVERFLOW ROOF DRAIN	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. D-5
RUBBERGARD™ EPDM	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

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31 Mamaroneck Avenue
White Plains, New York 10601
914-761-6006 (F) 914-761-4919
John P. Sullivan, FAIA - Lisc. # 011185 Registered through 4/30/24

Date	Issue
1/18/2024	CLIENT REVIEW SET
4/8/2024	CLIENT REVIEW SET
5/7/24	CONSTRUCTION SET

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

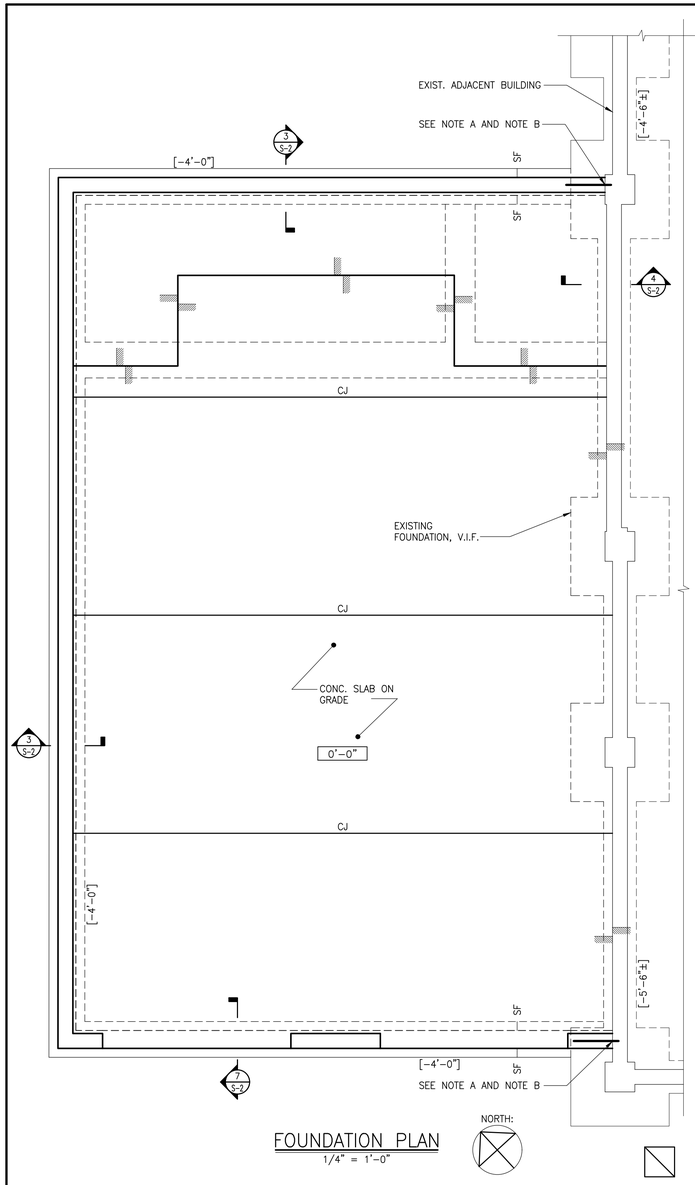
Drawing Title

ROOF DETAILS

Project No.	202222
Date	7.21.2023
Scale	
Drawing by	KA
Checked by	

Drawing No.

A-25



FOUNDATION PLAN

1/4" = 1'-0"

NORTH:

- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. DO NOT SCALE THIS DRAWING.
- SLAB ON GRADE CONSTRUCTION: 5" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC.
- T/APPARATUS BAY SLAB SHALL BE 6"± BELOW FIX GROUND FLOOR, SEE ARCH. FOR SLAB PITCH.
- T/SLAB ELEVATION = DATUM = 0'-0"

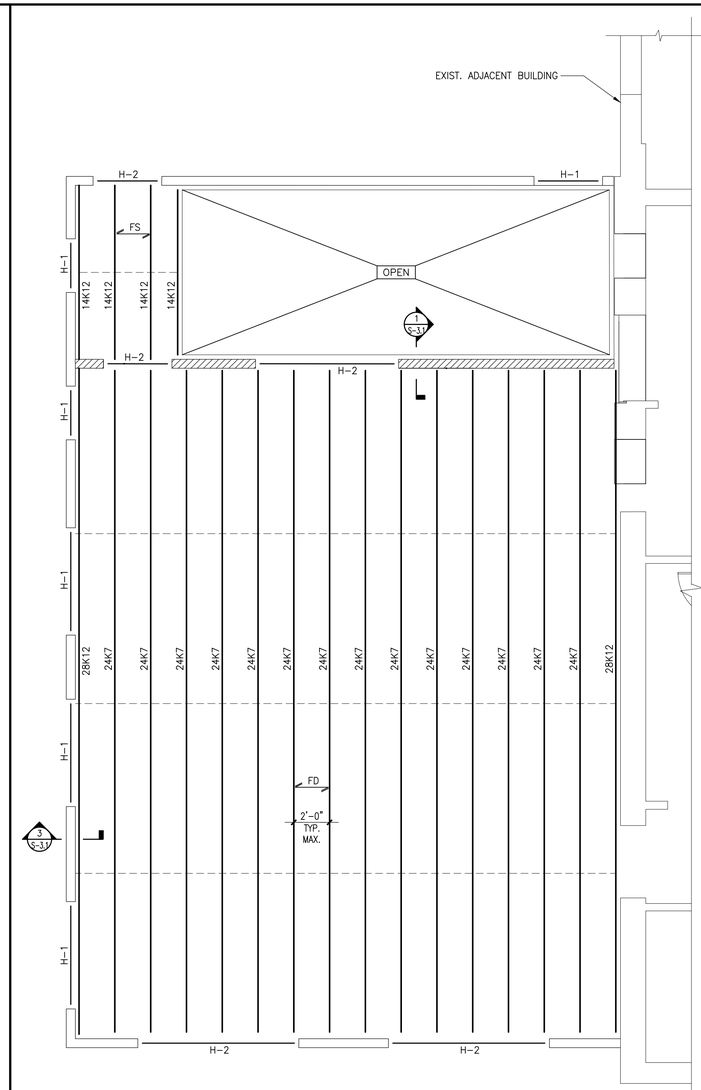
LEGEND:

- "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE "TYPICAL SLAB ON GRADE DETAILS".
- [-X'-X"] INDICATES BOTTOM OF FOOTING ELEVATION FROM TOP OF SLAB ELEVATION
- DROP: INDICATES CHANGE IN ELEVATION.
- "SF" INDICATES APPROXIMATE LOCATION OF STEPS IN FOOTINGS ON PLAN. COORDINATE LOCATION AND ELEVATION WITH SITE GRADING AND MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. FOR DETAILS, SEE "TYPICAL STEPPED FOOTING DETAIL".

NOTE "A":
AT ALL LOCATIONS WHERE NEW FND. WALL AND FOOTING MEETS EXISTING FND. WALL AND FOOTING, PROVIDE #4 x 4'-0" LONG DOWELS (BENT OR STRAIGHT) AT 12"o.c. DRILL AND EMBED DOWEL INTO FND. WALL AS FOLLOWS:

- CONCRETE WALL: 4" W/ DEWALT AC100+ GOLD ADHESIVE
- MASONRY WALL: 4" W/ DEWALT AC100+ GOLD ADHESIVE

NOTE "B":
EXISTING BOTTOM OF FOOTING ELEVATION TO BE V.I.F. IF EXISTING BOTTOM OF FOOTING ELEVATION IS LESS THAN 3'-6" BELOW FINISH GRADE ELEVATION, CONCRETE UNDERPINNING SHALL BE REQ'D. BOTTOM OF NEW FOOTING ELEVATION SHALL MATCH BOTTOM OF EXISTING FOOTING OR BOTTOM OF UNDERPINNING, WHICHEVER IS LOWER.



SECOND FLOOR FRAMING PLAN

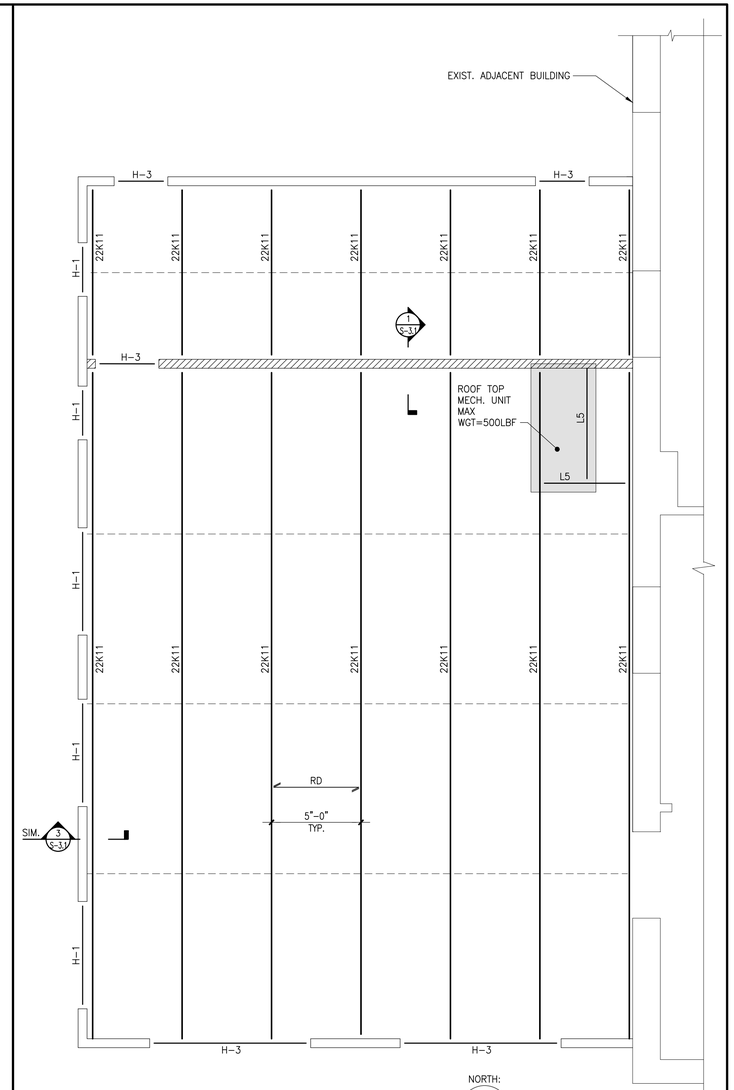
1/4" = 1'-0"

NORTH:

- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. DO NOT SCALE THIS DRAWING.
- TYPICAL WALL CONSTRUCTION SHALL BE 600S200-54 AT 16"o.c. WITH (4)600S200-54 TO ALIGN WITH FLOOR JOISTS.
- NON-COMPOSITE FORM DECK FLOOR CONSTRUCTION: 3 1/2" CONCRETE SLAB = 2 1/2" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC ON 1" STEEL FORM DECK PER STEEL DECK NOTES.
- TOP OF 2ND FLOOR SLAB SHALL MATCH EXISTING TOP OF 2ND FLOOR SLAB, SEE ARCH.
- ALL EXTERIOR WALLS SHALL BE CONSTRUCTED AS SW-1 SHEAR WALLS PER 1/S-3.

LEGEND:

- FD INDICATES SPAN DIRECTION OF SLAB ON METAL FORM DECK.
- - - - INDICATES CONTINUOUS HORIZONTAL BRIDGING EQUALLY SPACED ALONG SPAN OF STEEL JOIST.



ROOF FRAMING PLAN

1/4" = 1'-0"

NORTH:

- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. DO NOT SCALE THIS DRAWING.
- ROOF CONSTRUCTION: 20GA. 1 1/2" TYPE B STEEL ROOF DECK
- TYPICAL WALL CONSTRUCTION SHALL BE 600S200-54 AT 16"o.c. WITH (3)600S200-54 TO ALIGN WITH ROOF JOISTS.
- COORDINATE SIZE AND LOCATION OF ALL ROOF PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL ROOF PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OR PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL".
- ALL EXTERIOR WALLS SHALL BE CONSTRUCTED AS SW-1 SHEAR WALLS PER 1/S-3.
- ROOF FUTURE SOLAR PANEL LOADS MAX 10PSF (INCLUDING SOLAR PANEL AND EQUIPMENT MOUNT WITH BALLASTED SYSTEM)

LEGEND:

- RD INDICATES SPAN DIRECTION OF METAL ROOF DECK.
- "L5" INDICATES RTU/ROOF OPENING SUPPORT ANGLE, SEE 2/S3.1 FOR SIZE AND CONNECTION DETAILS.
- - - - INDICATES CONTINUOUS HORIZONTAL BRIDGING EQUALLY SPACED ALONG SPAN OF STEEL JOIST.

HEADER SCHEDULE

MARK	SIZE (WIDTH x DEPTH)	# KING STUDS	# JACK STUDS
H-1	(2) 800S200-54	(2) 600S200-68	(2) 600S200-68
H-2	(3) 1400S200-118	(2) 600S200-68	(2) 600S200-68
H-3	(3) 1200S200-97	(2) 600S200-68	(2) 600S200-68

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STRUCTURAL ENGINEERS
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Date	Issue
2/14/2024	FOR BID
5/7/2024	FOR CONSTRUCTION

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

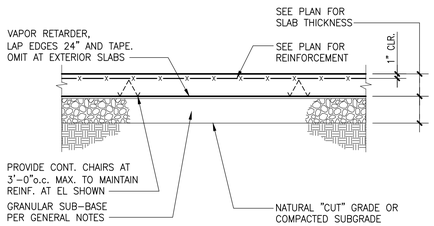
FOUNDATION AND FRAMING PLANS

Project No.	23144
Date	2/14/2024
Scale	AS NOTED
Drawing by	LC/CM
Checked by	PC

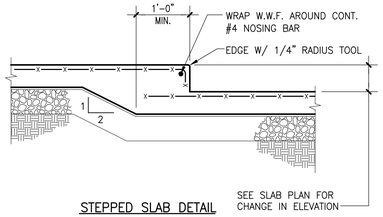
STATE OF NEW YORK · PATRICK J. CONLON · LICENSED PROFESSIONAL ENGINEER · 079876

Drawing No.

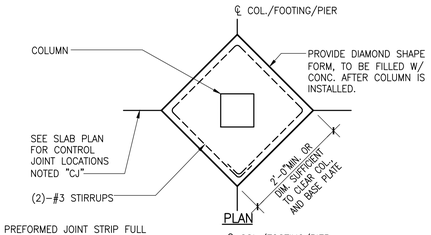
S-1.0



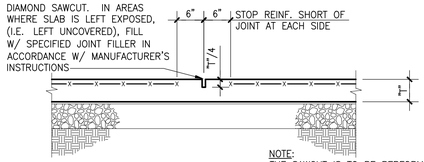
SLAB ON GRADE DETAIL



STEPPED SLAB DETAIL

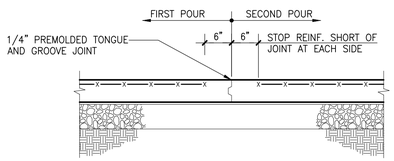


PLAN



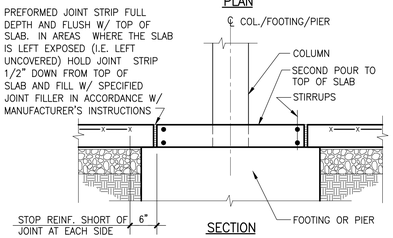
CONTROL JOINT DETAIL
SEE SLAB PLAN FOR CONTROL JOINT LOCATIONS NOTED "CJ"

NOTE:
THE SAWCUT IS TO BE PERFORMED NO MORE THAN 12 HOURS AFTER CONCRETE IS POURED, REFER TO ACI 301



CONSTRUCTION JOINTS ARE TO BE USED WHEN CONCRETING OPERATIONS ARE TO BE INTERRUPTED.

SLAB ON GRADE CONSTRUCTION JOINT DETAIL



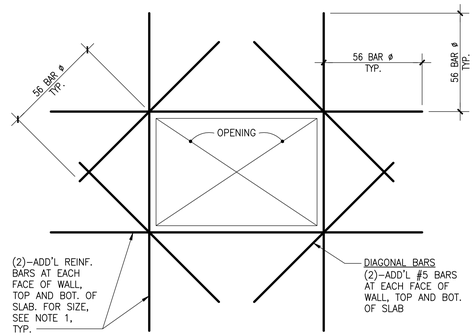
SECTION

SLAB AT COLUMN DETAIL

TYPICAL SLAB ON GRADE DETAILS

NO SCALE

1 S-2



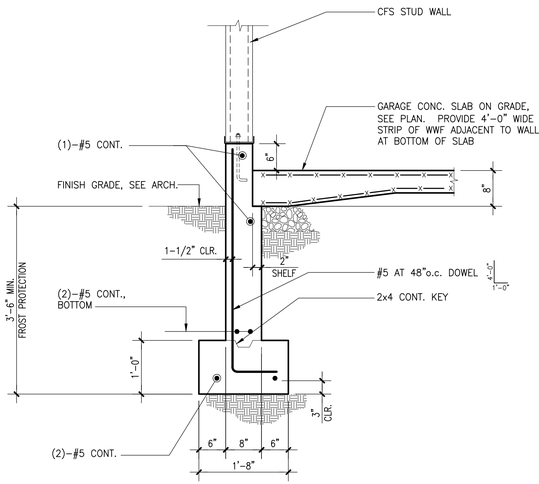
NOTES:

1. AT WALLS, ADDITIONAL REINFORCING SIZE SHALL MATCH HORIZONTAL AND VERTICAL REINFORCING. AT SLABS USE #5 BARS.
2. THIS DETAIL APPLIES AT ALL OPENINGS 12"x12" AND LARGER. DETAIL IS SIMILAR AT ALL CIRCULAR OPENINGS 12" AND LARGER.
3. COORDINATE ALL OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

TYPICAL SLAB/WALL PENETRATION REINFORCING DETAIL

NO SCALE

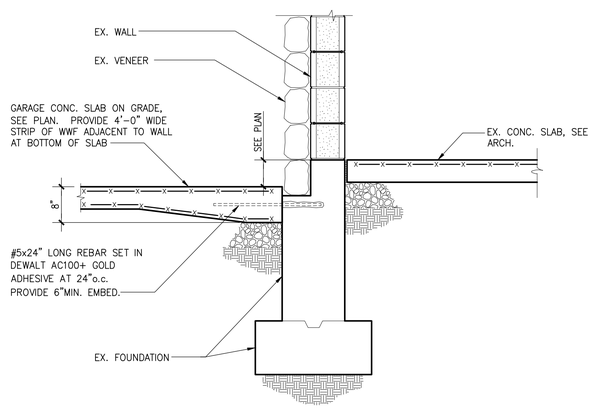
2 S-2



SECTION

3/4" = 1'-0"

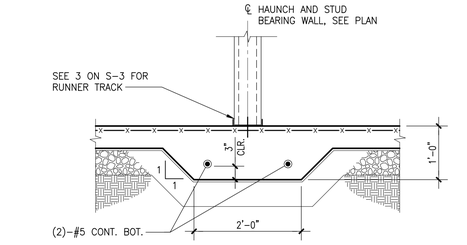
3 S-2



SECTION

3/4" = 1'-0"

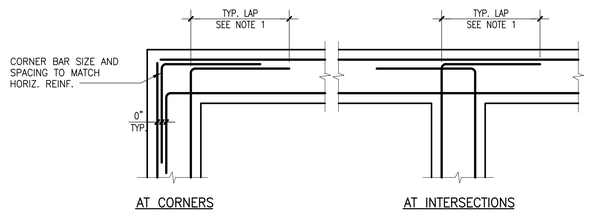
4 S-2



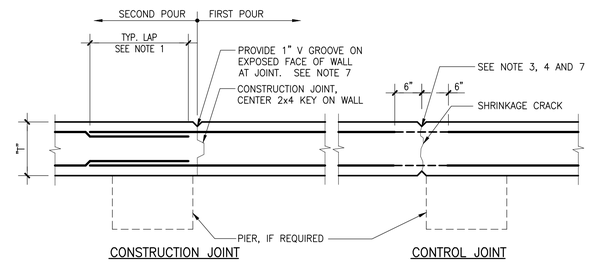
TYPICAL SLAB HAUNCH DETAIL AT BEARING WALLS

NO SCALE

5 S-2



AT CORNERS AT INTERSECTIONS



CONSTRUCTION JOINT CONTROL JOINT

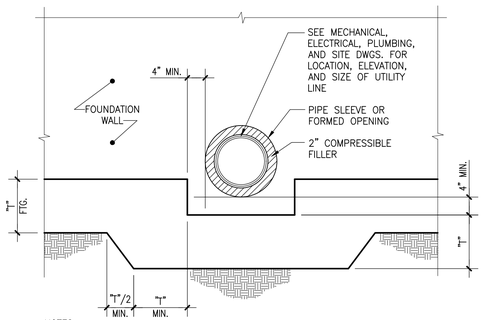
NOTES:

1. ALL BAR SPLICES SHALL BE CLASS "B" LAP SPLICES WITH 56 BAR DIAMETERS MINIMUM.
2. PROVIDE CONSTRUCTION JOINT AT END OF EACH DAY'S POUR OR AS REQUIRED TO LIMIT THE LENGTH OF WALL POUR TO A MAXIMUM OF 30 FEET.
3. PROVIDE CONSTRUCTION/CONTROL JOINTS AT FACE OF PIERS UNLESS OTHERWISE NOTED ON PLAN.
4. AT CONTROL JOINT, PROVIDE BEVEL JOINT "T"/10 INTO WALL SURFACE BOTH SIDES. STOP ALTERNATING HORIZONTAL REINFORCING BARS 6" SHORT OF CONTROL JOINT.
5. SEE APPROPRIATE SECTION FOR WALL REINFORCEMENT.
6. VERTICAL REINFORCING AND/OR SUPPORT BARS NOT SHOWN FOR CLARITY.
7. PROVIDE CAULKING AT JOINT IF REQUIRED. SEE SPECIFICATIONS.

TYPICAL CONCRETE WALL CONSTRUCTION DETAIL

NO SCALE

8 S-2



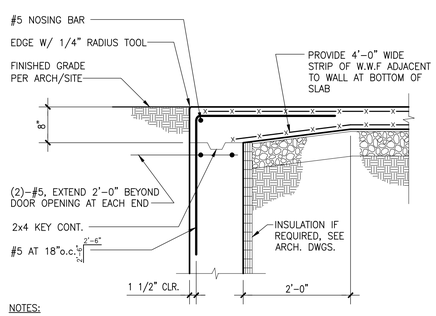
NOTES:

1. AT STEP FOOTING, FOR WALL AND FOOTING REINFORCING, SEE "TYPICAL STEPPED FOOTING DETAIL".
2. IF REQUIRED, FOR ADDITIONAL WALL REINFORCING, SEE "TYPICAL SLAB/WALL PENETRATION REINFORCING DETAIL".

TYPICAL STEP FOOTING DETAIL AT WALL PIPE PENETRATION

NO SCALE

6 S-2



NOTES:

1. SEE APPROPRIATE SECTION FOR REMAINDER OF FOUNDATION INFORMATION NOT REPEATED HERE.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR DOORS.

TYPICAL FOUNDATION WALL DETAIL AT EXTERIOR DOORS

NO SCALE

7 S-2

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

TYPICAL FOUNDATION DETAILS

Project No.	23144
Date	2/14/2024
Scale	AS NOTED
Drawing by	LG/CM
Checked by	PG

Drawing No.

S-2.0

STATE OF NEW YORK * PATRICK J. CONLON * 079876 * LICENSED PROFESSIONAL ENGINEER

MARK	SHEATHING PANEL		ANCHORAGE OF TRACK TO TOP OF FOUNDATION WALL / HAUNCH SLAB	SHEATHING PANEL EDGES TO VERT. STUDS AND HORIZ. BLOCKING	SIMPSON HOLDOWN				
	THICKNESS	# OF SHEATHED FACES			MODEL	ANCHOR TO FOUNDATION / WALL BELOW	DRILL AND EPOXY W/ SET, ANCH'D EMBED. DEPTH (MIN.)	END POST SCREWS (CONNECTING SIMPSON HOLDOWN TO END POST)	MIN. END POST SIZE
SW-1	15/32"	1	SEE 3/S-3	#10-16 SCREWS AT 4" o.c.	S/HDU6	5/8"ø A307 THR'D ROD	10"	(12) - #14 SCREWS	(2)-6SW16 (BACK TO BACK)

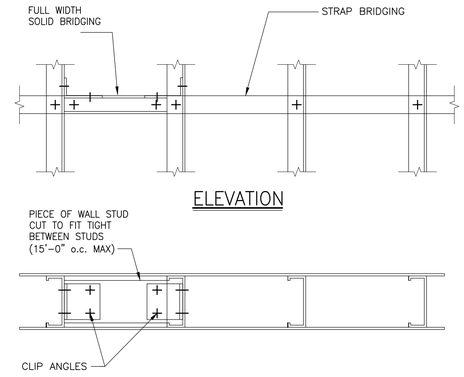
NOTES:

1. "ATR" INDICATES ALL THREADED ROD WITH NUT AND WASHER AT TOP.
2. SHEATHING PANELS SHALL BE OF THE INDICATED THICKNESS, AND IN CONFORMANCE WITH THE "GENERAL NOTES AND MATERIAL SPECIFICATIONS" SHEET.
3. HOLDOWNS INDICATED ARE TO BE LOCATED AT BOTH SHEARWALL END POSTS AND SHALL ANCHOR THE BOTTOM OF THE SHEARWALL END POST IN THE FOLLOWING WAY:
   A. AT FIRST FLOOR SHEARWALLS, ANCHOR TO THE FOUNDATION WALL OR HAUNCH SLAB WITH A THREADED ROD OF INDICATED DIAMETER. RODS SHALL BE DRILLED IN AND EPOXY ANCHORED USING SIMPSON SET EPOXY ANCHORING SYSTEM WITH THE INDICATED EMBEDMENT DEPTH.

SHEARWALL SCHEDULE AND NOTES

NO SCALE

1 S-3



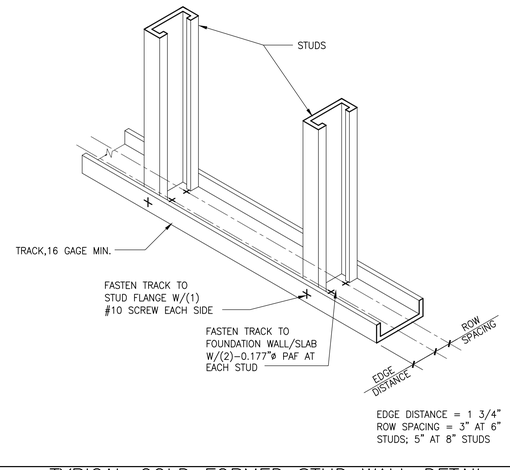
NOTE: STRAP BRIDGING AT 4'-0" o.c. MAX. VERTICALLY. ATTACH ENDS OF STRAP BRIDGING TO JAMB STUD, SOLID BRIDGING, OR BUILDING STRUCTURE.

PLAN DETAIL

TYPICAL WALL STUD BRIDGING DETAILS

NO SCALE

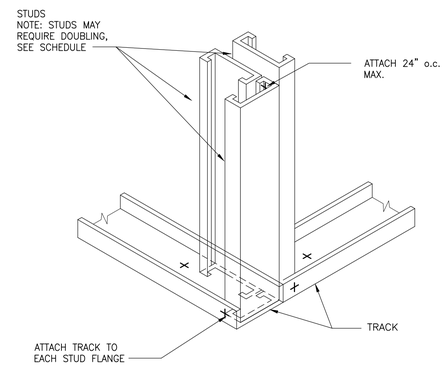
2 S-3



TYPICAL COLD FORMED STUD WALL DETAIL

NO SCALE

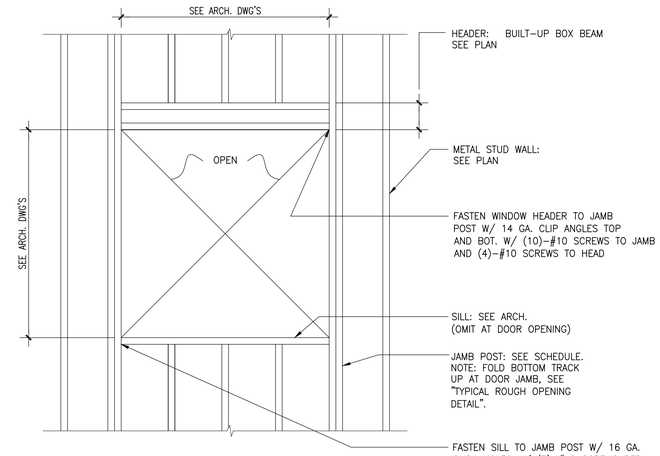
3 S-3



TYPICAL STUD WALL CORNER DETAIL

NO SCALE

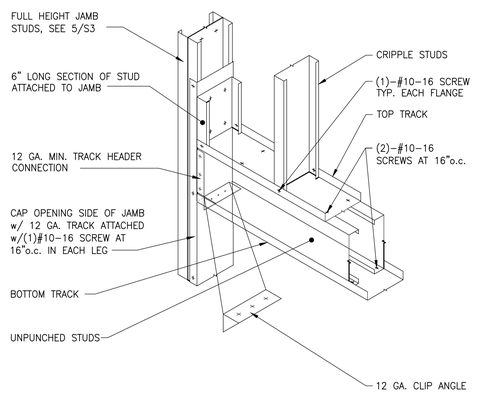
4 S-3



TYPICAL STUD WALL OPENING

NO SCALE

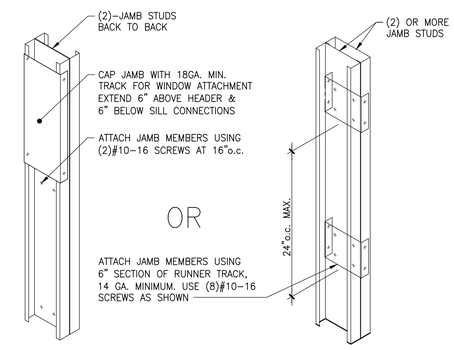
5 S-3



TYPICAL BOXED HEADER DETAIL

NO SCALE

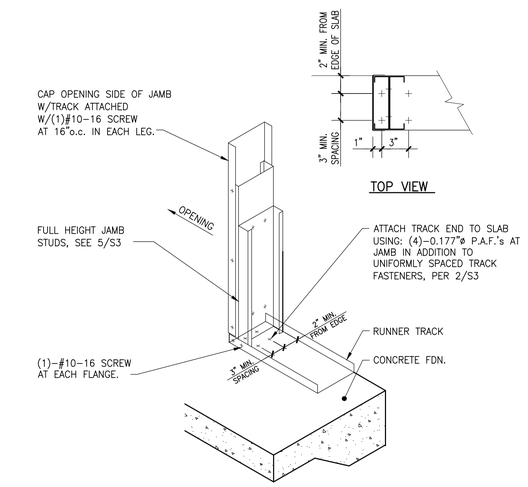
6 S-3



TYPICAL BUILT-UP JAMB DETAIL

NO SCALE

7 S-3



TYPICAL JAMB ANCHORAGE DETAIL

NO SCALE

8 S-3

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

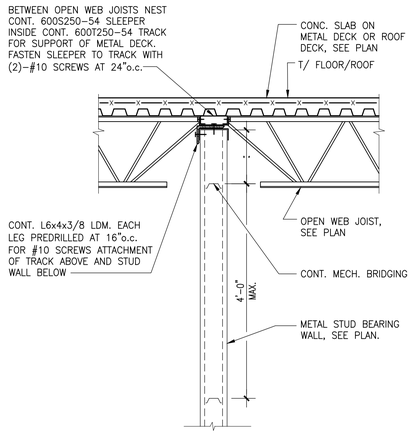
TYPICAL COLD FORMED STEEL DETAILS

Project No.	23144
Date	2/14/2024
Scale	AS NOTED
Drawing by	LC/CM
Checked by	PC

STATE OF NEW YORK · PATRICK J. CONLON · LICENSED PROFESSIONAL ENGINEER · 079876

Drawing No.

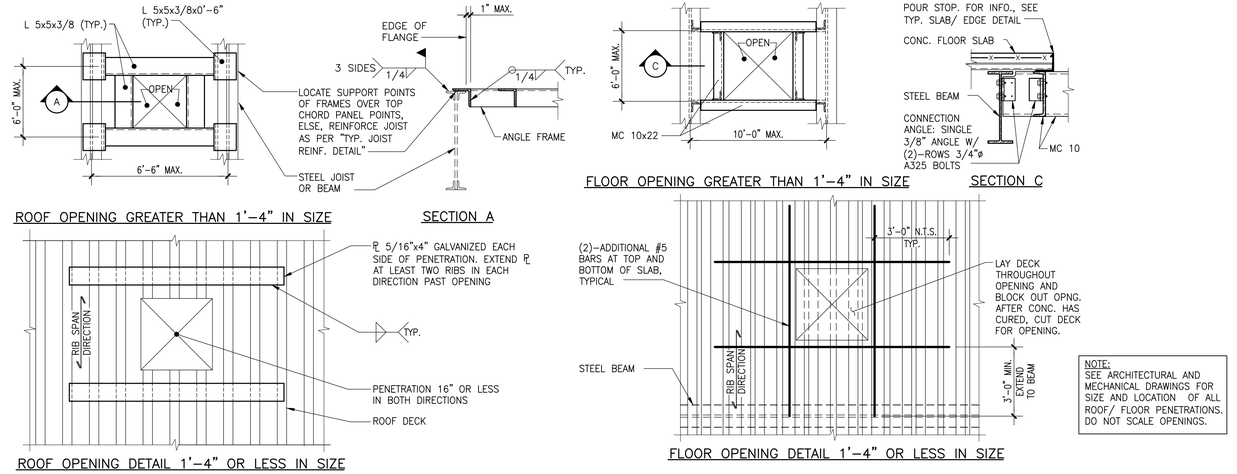
S-3.0



TYP. BEARING WALL DETAIL

NO SCALE

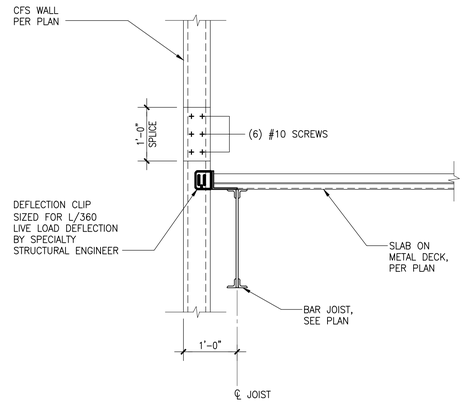
1 S-3.1



TYPICAL RTU SUPPORT AND ROOF/ FLOOR OPENING DETAIL

NO SCALE

2 S-3.1



SECTION

3/4" = 1'-0"

3 S-3.1

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Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

STEEL AND COLD FORMED STEEL SECTIONS

Project No.	23144
Date	2/14/2024
Scale	AS NOTED
Drawing by	LG/CM
Checked by	PC

STATE OF NEW YORK · PATRICK J. CONLON · 079876 · LICENSED PROFESSIONAL ENGINEER

Drawing No.

S-3.1

GENERAL NOTES:

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW THE STRUCTURAL WORK ASSOCIATED WITH. CROTON–ON–HUDSON HARMON FIREHOUSE AT 30 WAYNE ST. CROTON–ON–HUDSON, NEW YORK.

2. THE STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE FOLLOWING LOADS:

A. FLOOR LIVE LOAD:

OFFICES	50 PSF + 15 PSF PARTITION
TOILET ROOMS	60 PSF
STAIRS	100 PSF

B. ROOF LOADS:

SNOW:	
RISK CATEGORY	IV
GROUND SNOW LOAD, Pg	30 PSF
EXPOSURE FACTOR, Ce	1.0
THERMAL FACTOR, Ct	1.0
IMPORTANCE FACTOR, Is	1.2
FLAT ROOF SNOW LOAD, Pf	25.2 PSF
SLOPED ROOF AND ADDITIONAL SNOW LOAD DUE TO DRIFT, SLIDING AND UNBALANCED SNOW PER BUILDING CODE	
RAIN LOADS: IN ACCORDANCE WITH SECTION 1611	
ROOF LIVE LOAD:	20 PSF MIN

C. WIND DESIGN DATA:
WIND LOADS HAVE BEEN DETERMINED BASED ON SECTION 1609.6, SIMPLIFIED PROVISIONS FOR LOW RISE BUILDINGS SECTION 1609.1.1 IN ACCORDANCE WITH ASCE 7–16, CHAPTER 27 (DIRECTIONAL PROCEDURE)

RISK CATEGORY	IV
BASIC (ULTIMATE) WIND SPEED (3–SECOND GUST)	127 MPH
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	0.18
"a" DIMENSION FOR USE WITH COMPONENTS AND CLADDING	2 FT

D. EARTHQUAKE DESIGN DATA:

RISK CATEGORY	IV
SEISMIC IMPORTANCE FACTOR, Ie:	1.5
MAPPED SHORT PERIOD SPECTRAL RESPONSE ACCELERATIONS, SS:	0.292 g
MAPPED 1 SECOND PERIOD SPECTRAL RESPONSE ACCELERATIONS, S1:	0.061 g
SITE CLASS:	D
DESIGN SHORT PERIOD SPECTRAL RESPONSE ACCELERATIONS, SDS:	0.305 g
DESIGN 1 SECOND PERIOD SPECTRAL RESPONSE ACCELERATIONS, SD1:	0.098 g
SEISMIC DESIGN CATEGORY:	C

3. THIS STRUCTURE HAS BEEN DESIGNED TO BE SELF–SUPPORTING AND STABLE AFTER THE CONSTRUCTION OF THE BUILDING HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO ALL RELATED ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, ERECTION METHODS, ERECTION SEQUENCE, TEMPORARY BRACING, FORMS, SHORING, USE OF EQUIPMENT, AND SIMILAR CONSTRUCTION PROCEDURES. REVIEW OF THE CONSTRUCTION BY THE ENGINEER IS FOR CONFORMANCE WITH DESIGN ASPECTS ONLY, NOT TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES. LACK OF COMMENT ON THE PART OF THE ENGINEER WITH REGARD TO CONSTRUCTION PROCEDURES IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE PROCEDURES.

4. THIS STRUCTURE UTILIZES CFS SHEAR WALLS, BRACING ELEMENTS, AND MOMENT FRAMES TO PROVIDE LATERAL STABILITY. THEREFORE, TEMPORARY BRACING, GUYS, ETC., MUST BE MAINTAINED UNTIL ALL SHEAR WALLS HAVE BEEN ERECTED AND ATTACHED TO THE STEEL FRAMING AND BRACING AND MOMENT FRAMES HAVE BEEN ERECTED.

5. JOBSITE SAFETY AND CONSTRUCTION PROCEDURES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. REVIEW OF THE CONSTRUCTION BY THE ENGINEER IS FOR CONFORMANCE WITH DESIGN ASPECTS ONLY, NOT TO REVIEW THE CONTRACTOR'S PROVISIONS FOR JOB SITE SAFETY. LACK OF COMMENT BY THE ENGINEER IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE ASPECTS OF WORK.

6. TESTING AND INSPECTION OF CONCRETE STEEL REINFORCING BARS (CONCRETE CONSTRUCTION), BAR JOISTS, STEEL DECK, COLD–FORMED STEEL FRAMING, PLYWOOD SHEATHING, AND OTHER WORK IS DESCRIBED IN THE PROJECT "STATEMENT OF SPECIAL INSPECTIONS". THE CONTRACTOR SHALL REVIEW THE "STATEMENT OF SPECIAL INSPECTIONS" AND COORDINATE THE SCHEDULING OF INSPECTIONS WITH THE SPECIAL INSPECTOR.

7. IF FAULTY CONSTRUCTION PROCEDURES, OR MATERIAL, RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURES, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MAY BE WITHHELD FROM THE GENERAL CONTRACTOR'S PAYMENT.

8. LOADS OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON–STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. HOWEVER, THESE PLANS DO NOT SHOW THE FULL SCOPE OF OPENINGS, IN ROOFS, FLOORS AND WALLS. FOR SIZE AND LOCATION OF ALL OPENINGS, SEE ARCHITECTURAL, AND MECHANICAL DRAWINGS. DO NOT SCALE OPENINGS. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER TRADES THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS, EQUIPMENT AND WORK TO BE PROVIDED FOR THEIR TRADE FOR ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. EXCESS COST RELATED TO VARIATION IN REQUIREMENTS OR EQUIPMENT ARE NOT TO BE BORNE BY THE OWNER.

9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND ANGLES WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

10. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS NOTED "±" THAT ARE INDICATED ON THE DRAWINGS.

11. THESE DRAWINGS ARE SUPPLEMENTED BY A DETAILED TECHNICAL SPECIFICATION. THE NOTES SHOWN UNDER CERTAIN CATEGORIES OF WORK ARE INTENDED TO SUMMARIZE BASIC REQUIREMENTS.

12. WORK SHOWN AS "TYPICAL DETAILS" APPLY THROUGHOUT THE PROJECT AS REQUIRED. WORK SHOWN AS "SECTIONS" SHALL BE CONSIDERED TO APPLY FOR THE SAME AND SIMILAR CONDITIONS IN THE BUILDING.

13. SOME DETAILS OF THE WORK ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. A CAREFUL REVIEW AND STUDY OF THESE DETAILS ARE NECESSARY BEFORE THE FULL SCOPE OF THE WORK CAN BE COMPREHENDED.

14. DO NOT SCALE DRAWINGS.

FOUNDATION NOTES:

1. THE FOUNDATIONS HAVE BEEN DESIGNED TO REST ON INORGANIC, UNDISTURBED SOIL OR COMPACTED GRANULAR FILL HAVING A BEARING VALUE OF 6000 PSF AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY JAMES E. QUILL AND DATED 03/13/2024 SUCH BEARING STRATA IS ANTICIPATED AT THE BOTTOM OF FOOTING ELEVATIONS NOTED ON THE FOUNDATION PLAN. ALL BEARING STRATA SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE IN ORDER TO VERIFY THE BEARING VALUE.

2. SEE ABOVE REFERENCED GEOTECHNICAL REPORT FOR STRUCTURAL FILL MATERIAL SPECIFICATION. RECOMMENDATIONS FOR THE PREPARATION OF SOIL BEARING SURFACES, BACKFILL AND DRAINAGE STATED IN THE GEOTECHNICAL REPORT ARE TO BE CONSIDERED PART OF THE PROJECT REQUIREMENTS.

3. THE SLAB–ON–GRADE SUB–BASE SHALL BE A CRUSHER RUN STONE FREE FROM SOFT DISINTEGRATED PIECES, MUD, DIRT, OR OTHER INJURIOUS MATERIAL THE MATERIAL SHALL HAVE NO STONE GREATER THAN 2 INCHES IN ANY ONE DIMENSION AND WITH LESS THAN 10 PERCENT BY WEIGHT PASSING A NO. 100 SIEVE.

4. THE BOTTOM OF EXTERIOR FOOTINGS NOT ON SOLID ROCK SHALL BE AT LEAST 4'–0" BELOW FINISHED GRADE.

5. ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.

6. STEP FOOTINGS WHERE ELEVATIONS CHANGE AT A MAXIMUM SLOPE OF ONE VERTICAL ON TWO HORIZONTAL AND PLACE LOWER FOOTINGS FIRST.

7. FOUNDATION WALLS SHALL BE TEMPORARILY BRACED UNTIL THE FLOOR SLAB AT THE TOP OF THE WALL HAS BEEN POURED AND THE CONCRETE HAS ATTAINED ITS SPECIFIED COMPRESSIVE STRENGTH UNLESS BACKFILL IS PLACED ON BOTH SIDES SIMULTANEOUSLY AND TO THE SAME LEVEL.

8. MINIMUM ANCHOR BOLT REQUIREMENTS FOR ATTACHMENT OF SUPERSTRUCTURE TO FOUNDATION SHALL BE 3/4" DIAMETER AT 4'–0" o.c. SPACING FOR FULL HEIGHT BASEMENTS AND 1/2" DIAMETER AT 6'–0" o.c. SPACING FOR CRAWL SPACES AND SLABS ON GRADE. EMBED ANCHOR BOLTS A MINIMUM OF 15" INTO MASONRY, AND 7" INTO CAST CONCRETE. ANCHOR BOLTS ARE TO BE PLACED WITHIN 1'–0" OF ALL CORNERS ON ALL EXTERIOR WALLS. ALL PIECES OF SILL PLATE SHALL HAVE A MINIMUM OF TWO ANCHOR BOLTS.

9. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.

10. USE LEAN CONCRETE (f'c=1500 PSI) OR CONTROLLED COMPACTED FILL FOR OVER–EXCAVATION OF FOOTINGS.

11. EXISTING UTILITIES: LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.

12. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUB–SURFACE PIPING, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW ELEVATION OF PIPING, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

13. SUBMITTALS TO THE ENGINEER ARE REQUIRED FOR STRUCTURAL FILL, AND SLAB SUB–BASE AND FINE–GRADED GRANULAR MATERIAL.

CONCRETE NOTES:

1. CONCRETE SHALL BE THE SPECIFIED WEIGHT AND DEVELOP A MINIMUM STRENGTH IN 28 DAYS AS FOLLOWS;

LOCATION	WEIGHT	MINIMUM STRENGTH	MAXIMUM W/C RATIO
FOOTINGS	NORMAL	3,000 PSI	0.50
SLABS ON GRADE (INTERIOR)	NORMAL	4,000 PSI	0.45
SLABS ON METAL DECK	NORMAL	3,000 PSI	0.45

3. ALL DETAILING FABRICATION, AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".

4. CONCRETE DESIGN MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW, TOGETHER WITH LABORATORY REPORTS ATTESTING THAT THE MIXES CAN ATTAIN THE MINIMUM STRENGTH REQUIRED IN ACCORDANCE WITH ACI 301.

5. PORTLAND CEMENT SHALL BE TYPE I OR TYPE II AND CONFORM TO ASTM C150.

6. OTHER CEMENTITIOUS MATERIAL SUCH AS FLYASH OR GROUND GRANULATED BLAST– FURNACE SLAG MAY BE BLENDED WITH CEMENT FOR USE IN THE CONCRETE MIX. FLYASH SHALL CONFORM TO ASTM C618 AND MAY REPLACE CEMENT IF THE FOLLOWING RANGES FOR THE 2 CLASSES OF FLYASH; CLASS C, 20 TO 35%; CLASS F, 15 TO 25%. GROUND GRANULATED BLAST– FURNACE SLAG SHALL CONFORM TO ASTM C989 AND MAY NOT EXCEED 50% OF TOTAL WEIGHT OF CEMENTITIOUS MATERIALS.

7. COARSE AGGREGATE SHALL BE 3/4" AND CONFORM TO ASTM C33.

8. NO ADMIXTURES ARE PERMITTED WITHOUT THE ENGINEERS WRITTEN PERMISSION OTHER THAN ENTRAINED AIR. ALL LIGHTWEIGHT CONCRETE AND CONCRETE EXPOSED TO THE WEATHER, SUCH AS THAT USED IN FOUNDATION WALLS, SHALL CONTAIN 5% ± 1% ENTRAINED AIR. DO NOT USE AIR ENTRAINMENT ADMIXTURE FOR INTERIOR NORMALWEIGHT CONCRETE SLABS.

9. LIMIT WATER–SOLUBLE, CHLORIDE–ION CONTENT IN HARDENED CONCRETE TO 0.30 PERCENT BY WEIGHT OF CEMENT.

10. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60.

11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WITH A MINIMUM YIELD STRENGTH OF 75 KSI. LAP ONE MESH SIZE AT SIDES AND ENDS, AND WIRE TOGETHER.

12. VAPOR BARRIER SHALL BE STEGO WRAP (15 MIL) VAPOR BARRIER BY STEGO INDUSTRIES LLC AND SHALL HAVE A WATER VAPOR PERMEANCE AFTER CONDITIONING (ASTM E 1745, PARAGRAPHS 7.1.2 – 7.1.5) THAT IS LESS THAN 0.01 PERMS AND MEETS THE REQUIREMENTS OF CLASS A. PLACE AS PER ASTM E 1643 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

13. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

LOCATION	COVER (INCHES)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2
#5 BAR AND SMALLER	1–1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS:	
#14 AND #18 BARS	1–1/2
#11 BAR AND SMALLER	3/4

14. THE CONVEYANCE, PLACEMENT AND PROTECTION OF THE CONCRETE SHALL CONFORM TO ACI 318 PER "REFERENCE STANDARD TABLE". MECHANICAL VIBRATORS ARE TO BE USED TO CONSOLIDATE THE FRESHLY CAST CONCRETE AROUND THE REINFORCING AND AGAINST FORM SURFACES AND TO PREVENT THE FORMATION OF AIR OR STONE POCKETS, HONEYCOMBING, PITTING OR PLANES OF WEAKNESS. HOWEVER, CARE MUST BE USED TO AVOID OVER VIBRATION THAT CAN LEAD TO AGGREGATE SEGREGATION.

15. NO WELDING OF REINFORCING WILL BE PERMITTED.

16. ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318 INDICATED IN THE "REFERENCE STANDARD TABLE".

17. CONCRETE PIERS: PLACE CONCRETE PIERS AND WALLS TOGETHER. SET PIER REINFORCING AND SET WALL REINFORCING THROUGH PIER VERTICAL BARS. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTING AT ALL PIERS. SIZE AND QUANTITY OF DOWELS TO MATCH VERTICAL PIER REINFORCING (CLASS "B" SPLICE).

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING POURS TO MINIMIZE SHRINKAGE CRACKING. IN GENERAL, WALLS SHALL NOT BE POURED IN CONTINUOUS LENGTHS EXCEEDING 30 FEET WITHOUT PROVIDING CONSTRUCTION JOINTS OR CONTROL JOINTS. THE LOCATION AND CONFIGURATION OF JOINTS EXPOSED TO VIEW SHALL BE COORDINATED WITH THE ARCHITECT.

19. FINISH ELEVATED FLOOR SLABS FLAT AND LEVEL WITHIN A TOLERANCE OF +/– 1/4 INCHES TO THE ELEVATION INDICATED ON THE DRAWINGS. PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO FORMWORK AND FLOOR FRAMING DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION. THE ANTICIPATED DEFLECTION FOR BOTH BEAMS AND GIRDERS IS 1 1/4". DESIGN OF FLOOR FRAMING MEMBERS INCLUDES THE ADDITIONAL CONCRETE FOR THIS ANTICIPATED DEFLECTION.

20. THE INSTALLATION OF SLABS SHALL CONFORM TO THE REQUIREMENTS OF ACI 302.1R. INTERIOR FINISH SLAB SURFACES ARE TO HAVE A STEEL TROWEL FINISH. SURFACES OF SLABS FORMING THE SUBSTRATE FOR MUD JOBS ARE TO HAVE A CLEAN TEXTURED (SCRATCHED) SURFACE. EXTERIOR SLAB SURFACES ARE TO HAVE A BROOM FINISH UNLESS SPECIFIED ON THE ARCHITECTURAL DRAWINGS.

21. EXPANSION AND ISOLATION–JOINT–FILLER STRIPS: ASTM D 1751, ASPHALT–SATURATED CELLULOSIC FIBER, OR ASTM D 1752, CORK OR SELF EXPANDING CORK.

22. WATERSTOPS: FLEXIBLE PVC WATERSTOP CONFORMING TO CORP OF ENGINEERS SPECIFICATION CE CRD–C 572, WITH FLAT DUMBBELL AND CENTER BULB. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.

23. THE CURING AND PROTECTION OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 INDICATED IN THE "REFERENCE STANDARD TABLE". CONCRETE SLABS SHALL BE PROTECTED FROM LOSS OF SURFACE MOISTURE FOR NOT LESS THAN 7 DAYS USING A CURING COMPOUND CONFORMING TO ASTM C309 OR CONSTANTLY WETTED BURLAP. CURING COMPOUNDS SHALL BE COMPATIBLE WITH ANY INTENDED FLOORING OVERLAY. DO NOT INSTALL FINISH FLOORING UNTIL SLAB HAS ADEQUATELY DRIED PER THE FLOORING MANUFACTURER'S SPECIFICATIONS.

24. CONCRETE SIDEWALKS SHALL BE TREATED WITH A CLEAR WATER REPELLANT PENETRATING SEALER SUCH AS HYDROZO ENVIROSEAL 40 AFTER THE CONCRETE HAS BEEN ALLOWED TO CURE FOR A MINIMUM OF 28 DAYS BUT BEFORE THE FIRST WINTER SEASON AND/OR THE APPLICATION OF DE–ICING CHEMICALS, WHICHEVER COMES FIRST.

25. COLD WEATHER CONCRETE PLACEMENT: IF COLD WEATHER CONCRETING CONDITIONS EXIST AS DEFINED BY A PERIOD OF MORE THAN THREE DAYS WHEN THE AVERAGE OUTDOOR TEMPERATURE, (HIGH + LOW)/2, IS LESS THAN 40 DEG. F. THE PROCEDURES OUTLINED IN ACI 306.1 STANDARD SPECIFICATION FOR "COLD WEATHER CONCRETING" SHALL BE UTILIZED.

26. HOT WEATHER CONCRETE PLACEMENT: MAINTAIN CONCRETE TEMPERATURE BELOW 90 DEG. F. AT TIME OF PLACEMENT AND COMPLY WITH ACI 301.

27. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. LOCATE AND SUPPORT REINFORCEMENT WITH BAR SUPPORTS TO MAINTAIN MINIMUM CONCRETE COVER. DO NOT TACK WELD CROSSING REINFORCING BARS. PROVIDE BAR SUPPORTS AS FOLLOWS:

BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURE BAR SUPPORTS FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE," OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE

28. SUBMITTALS TO THE ENGINEER ARE REQUIRED FOR CEMENT, REINFORCING BARS, ADMIXTURES, AND AGGREGATES. AS SPECIFIED IN SPECIFICATION SECTION 033000.

STEEL DECK NOTES:

1. NON–COMPOSITE FORMED STEEL FLOOR DECK TO BE 1" INCH DEEP, 24 GAGE (UNCOATED STEEL THICKNESS = 0.0239"), UNIFORM, GALVANIZED (G60 COATING), UNITED STEEL DECK TYPE UFS UFX–36 DECK AS MANUFACTURED BY CANAM STEEL DECK, INCORPORATED, OR AN APPROVED EQUAL.

2. FORMED STEEL ROOF DECK TO BE 1–1/2" DEEP, 20 GAGE (UNCOATED STEEL THICKNESS = 0.0358"), GALVANIZED (G60 COATING), WIDE RIB, UNITED STEEL DECK "B" DECK PROFILE, AS MANUFACTURED BY CANAM STEEL DECK, INCORPORATED OR AN APPROVED EQUAL.

3. THE STEEL DECK SHALL BE SUPPLIED IN MINIMUM LENGTHS AS REQUIRED TO PROVIDE A "3–SPAN" CONDITION. END CLOSURES, ROOF SUMPS, CLOSURES AT PENETRATIONS, AND ALL OTHER ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION ARE REQUIRED.

4. NON–COMPOSITE FORMED STEEL FLOOR DECK WITH A THICKNESS OF 24 GAGE OR LESS SHALL BE WELDED TO SUPPORTING STEEL WITH 3/8" DIAMETER FUSION WELDS THROUGH 16 GAGE WELDING WASHERS. NON–COMPOSITE FORMED STEEL FLOOR DECK WITH A THICKNESS OF 22 GAGE OR GREATER SHALL BE WELDED TO SUPPORTING STEEL WITH 5/8" DIAMETER PUDDLE WELDS. SPACE WELDS AT 15" ON CENTER MAXIMUM AT END SUPPORTS AND 30" ON CENTER MAXIMUM AT INTERMEDIATE SUPPORTS (FOR CONNECTION OF FORMED STEEL FLOOR DECK TO COLD FORMED FRAMING, USE NO. 10 SELF TAPPING SCREWS AT 12" ON CENTER). INTERMEDIATE SIDE CONNECTIONS SHALL BE MADE AT MID–SPAN OR 3'–0" ON CENTER, WHICHEVER IS SMALLER. END LAPS OF SHEETS SHALL BE A MINIMUM OF 2" AND SHALL OCCUR OVER SUPPORTS.

5. FORMED STEEL ROOF DECK SHALL BE WELDED TO SUPPORTING STEEL WITH 5/8" DIAMETER PUDDLE WELDS AT ALL EDGE RIBS PLUS A SUFFICIENT NUMBER OF INTERIOR RIBS TO LIMIT THE SPACING BETWEEN ADJACENT POINTS OF ATTACHMENT TO 6" ON CENTER. TO THE DECK ATTACHMENT PATTERN SHOWN ON THE DRAWINGS. (FOR CONNECTION OF METAL ROOF DECK TO COLD FORMED FRAMING, USE NO. 10 SELF TAPPING SCREWS AT 12" ON CENTER). INTERMEDIATE SIDE CONNECTIONS SHALL BE MADE WITH #10 SELF–TAPPING SCREWS AT MID–SPAN OR 3'–0" ON CENTER, WHICHEVER IS SMALLER. END LAPS OF SHEETS SHALL BE A MINIMUM OF 2" AND SHALL OCCUR OVER SUPPORTS.

IN LIEU OF PUDDLE WELDS, POWDER ACTUATED FASTENERS HAVING THE SAME CAPACITY AS THE SPECIFIED PUDDLE WELDS, MAY BE USED. FASTENERS SHALL BE MANUFACTURED BY HILTI, INC. OR AN APPROVED EQUAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER INDICATING FASTENER DATA INCLUDING SIZE VS. STEEL SUBSTRATE MATERIAL, SPACINGS, CAPACITIES, INCLUDING DIAPHRAGM SHEAR CAPACITIES, METHOD OF INSTALLATION AND PROGRAM FOR QUALITY ASSURANCE OF INSTALLATION.

IN LIEU OF PUDDLE WELDS, PNEUMATICALLY APPLIED FASTENERS HAVING THE SAME CAPACITY AS THE SPECIFIED PUDDLE WELDS, MAY BE USED. FASTENERS SHALL BE MANUFACTURED BY PNEUTEK, INC. OR AN APPROVED EQUAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER INDICATING FASTENER DATA INCLUDING SIZE VS. STEEL SUBSTRATE MATERIAL, SPACINGS, CAPACITIES, INCLUDING DIAPHRAGM SHEAR CAPACITIES, METHOD OF INSTALLATION AND PROGRAM FOR QUALITY ASSURANCE OF INSTALLATION.

6. STEEL DECK MUST BE PROTECTED BEFORE AND AFTER ERECTION AND ALL DEBRIS CLEANED FROM ITS SURFACE WHERE CONCRETE WILL BE POURED OR ROOFING IS TO BE PLACED.

COLD–FORMED METAL FRAMING NOTES:

1. ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, STEEL THICKNESS AND SPACING SHOWN ON THE DRAWINGS. STUDS, TRACKS, BRACING AND BRIDGING SHALL BE MANUFACTURED PER ASTM C955.

2. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A–1003 WITH A YIELD AS FOLLOWS:

16 GA. (0.0598") OR HEAVIER 50 KSI
18 GA. (0.0474") OR LIGHTER 33 KSI

3. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE GALVANIZED WITH A MINIMUM G–60 COATING.

4. TOUCHUP PAINT: IMMEDIATELY AFTER FABRICATION AND ERECTION, CLEAN WELDS, FASTENERS, AND DAMAGED GALVANIZED SURFACES. TOUCHUP AND REPAIR SURFACES WITH GALVANIZED REPAIR PAINT IN ACCORDANCE WITH ASTM A780, APPLIED BY BRUSH OR SPRAY TO PROVIDE MINIMUM DRY FILM THICKNESS OF 2.0 MILS.

5. COLD FRAMED METAL SIZES AND ATTACHMENTS SHALL NOT BE LESS THAN THOSE INDICATED ON THE CONTRACT DOCUMENTS.

6. WHERE FRAMING SYSTEMS ARE NOT SHOWN ON THE DRAWINGS, DESIGN FRAMING SYSTEMS FOR THE DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS. PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE OF 120 DEG F. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE FOR AN UPWARD AND DOWNWARD MOVEMENT OF 1 INCH L/360 FOR FLOORS L/240 FOR ROOFS.

7. CONNECTIONS SHALL BE ACCOMPLISHED WITH SELF–DRIVING SCREWS OR WELDING SO THAT THE CONNECTION MEETS OR EXCEEDS THE DESIGN LOADS REQUIRED AT THAT CONNECTION.

ALL CONNECTIONS SHALL BE MADE USING A MINIMUM OF FOUR (4) #12–16 SCREWS, UNLESS OTHERWISE SHOWN ON DRAWINGS.

SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 1".

MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 14 GAGE, BUT NO THINNER THAN THE MATERIAL OF THE MEMBERS THAT ARE BEING CONNECTED,

8. WELDING SHALL CONFORM TO STRUCTURAL WELDING CODE D1.1 AND SPECIFICATION FOR WELDING SHEET IN STRUCTURES E1.3 OF THE AMERICAN WELDING SOCIETY AND BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH AWS STANDARDS.

9. TEMPORARY BRACING SHALL BE PROVIDED AND LEFT IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.

10. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED TO TRANSFER LOADS.

11. ALL BUILT–UP FRAMING MEMBERS SHALL BE OF WELDED CONSTRUCTION, UNLESS OTHERWISE NOTED.

12. AVOID HOLES AT ENDS OF MEMBERS. HOWEVER, SHOULD HOLES OCCUR, PROVIDE ADDITIONAL REINFORCING AT THE ENDS OF THE MEMBER WHERE HOLES OCCUR, UNLESS OTHERWISE NOTED.

13. PROVIDE LATERAL BLOCKING, BRIDGING, AND WEB STIFFENERS FOR VERTICAL AND HORIZONTAL FRAMING MEMBERS, AND OTHER FRAMING MEMBERS AS REQUIRED AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS OR RECOMMENDATIONS, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

14. TRACK: 14 GAGE MINIMUM. SECURELY ANCHORED TO ADJACENT STRUCTURE OR MEMBER.

15. ALL FRAMING COMPONENTS: CUT SQUARELY OR AT AN ANGLE TO FIT SQUARELY AGAINST ABUTTING MEMBERS. ALL MEMBERS: HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED, ERECT MEMBER LEVEL, PLUMB, AND TRUE TO LINE AND TO DIMENSIONS AND ELEVATIONS INDICATED.

16. STUDS: SEATED SQUARELY IN THE TRACK WITH THE STUD WEB AND FLANGES ABUTTING THE TRACK WEB, AND SECURELY ATTACHED TO THE FLANGES OR WEB OF BOTH TRACKS.

17. SPLICES IN STUDS AND OTHER FRAMING COMPONENTS: NOT PERMITTED.

STEEL JOIST NOTES:

1. JOISTS SHALL BE SUPPLIED WITH ALL ATTACHMENT DEVICES, BRIDGING, AND SIMILAR ACCESSORIES REQUIRED FOR STRICT CONFORMANCE WITH THE STEEL JOIST INSTITUTE'S SPECIFICATIONS. JOIST ERECTION SHALL BE IN STRICT CONFORMANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS. ALL OF THE ABOVE INFORMATION SHALL BE SHOWN ON THE SHOP DRAWINGS.

2. JOISTS SHALL BE FIELD WELDED TO THEIR SUPPORTING MEMBERS BY A CERTIFIED WELDER AS DEFINED BY THE AMERICAN WELDING SOCIETY.

3. JOISTS AT ALL COLUMN LINES SHALL BE FIELD BOLTED TO THE COLUMN AND HAVE THEIR LOWER CHORDS EXTENDED AND CONNECTED TO THE COLUMN.

4. EXTEND JOISTS 1 INCH PAST CENTERLINE OF SUPPORTING MEMBER WHERE POSSIBLE. ON MASONRY WALLS 12 INCHES OR MORE IN THICKNESS, THE MINIMUM BEARING LENGTH SHALL BE 6 INCHES, UNLESS OTHERWISE NOTED.

5. JOISTS SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP–2– OR SP3 AND PAINTED AS PER SSPC PAINT NO. 15 OR MANUFACTURER'S STANDARD SHOP PRIMER COMPLYING WITH THE PERFORMANCE REQUIREMENTS IN SSPC PAINT NO. 15.

6. BRIDGING SHALL BE AS SHOWN AND NOT LESS THAN CALLED FOR BY THE SJI SPECIFICATION, PER "STANDARD REFERENCE TABLE".

7. ADJACENT JOISTS OF THE SAME DEPTH SHALL HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF MECHANICAL DUCTS.

8. JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS, DESIGNATED "SP", FOR LOAD AND DEFLECTION CRITERIA SHOWN ON THE DRAWINGS, JOIST MANUFACTURER SHALL COORDINATE AND VERIFY WEIGHT, SIZE AND LOCATION OF MECHANICAL EQUIPMENT AND ANY OTHER ATTACHED EQUIPMENT/APPURTENANCE WITH THE GENERAL AND MECHANICAL CONTRACTORS.

9. "K" SERIES JOISTS:

A. WELD ALL JOISTS TO SUPPORTING STEEL WITH 1 1/2" OF 3/16" FILLET WELD EACH SIDE OF BEARING, UNLESS OTHERWISE SHOWN.

B. PROVIDE 5" DEEP BEARING ENDS ON JOISTS WHICH SHARE A COMMON BEARING GIRDER WITH "LH" JOISTS.

12. "LH" SERIES JOISTS:

A. WELD ALL JOISTS TO SUPPORTING STEEL WITH 2" OF 1/4" FILLET WELD EACH SIDE OF BEARING, UNLESS OTHERWISE SHOWN.

2020 BUILDING CODE OF NEW YORK STATE
ALL CONSTRUCTION MATERIAL SHALL COMPLY WITH REFERENCE STANDARD AS INDICATED BELOW

ITEM	REFERENCE STANDARD
INTERNATIONAL BUILDING CODE	2018
STRUCTURAL CONCRETE	ACI 318–14
STRUCTURAL STEEL JOIST	SJI 100–15 AND SJI 200–15 FOR COMPOSITE JOIST
STEEL DECK	SDI NC/RD–10 (NONCOMPOSITE AND ROOF STEEL DECK) SDI C–11 (COMPOSITE STEEL DECK)
STRUCTURAL COLD FORMED STEEL	AISI S100–16

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Date Issue
2/14/2024 FOR BID
5/7/2024 FOR CONSTRUCTION

I herby state to the best of my professional knowledge and abilities that the proposed building design represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Current New York State Energy Conservation Construction Code and adopted Stretch Code. The signature and seal on such documents attests to the above statement.

Project Title

Croton-on-Hudson Harmon Firehouse Station #3 & EMS

30 Wayne Street
Croton-On-Hudson
New York 10520

Drawing Title

GENERAL NOTES AND MATERIAL SPEC'S

Project No.	23144
Date	2/14/2024
Scale	AS NOTED
Drawing by	LC/CM
Checked by	PC

STATE OF NEW YORK · PATRICK J. CONLON · 079876 · LICENSED PROFESSIONAL ENGINEER

Drawing No.
S-4.0