

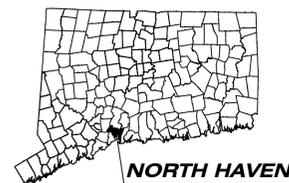
TOWN OF NORTH HAVEN

FIRE TRAINING TOWER

PROJECT NO. 20191094-00

LIST OF DRAWINGS

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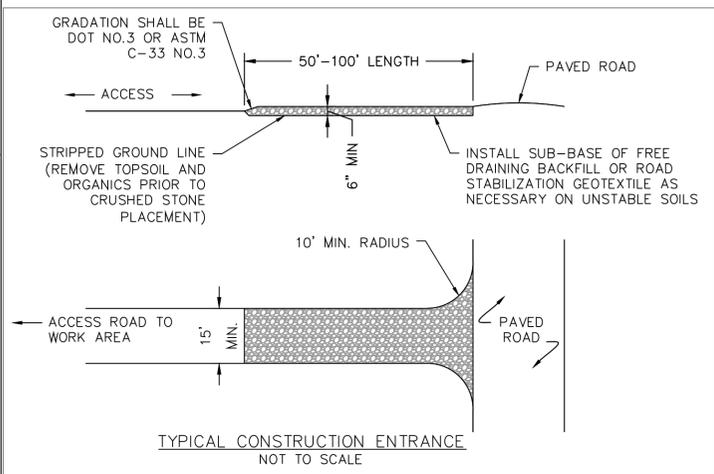
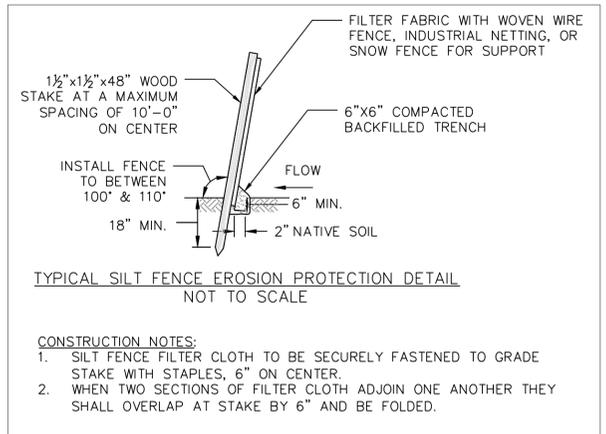
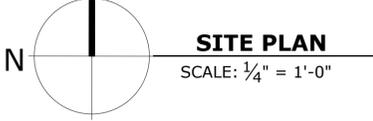
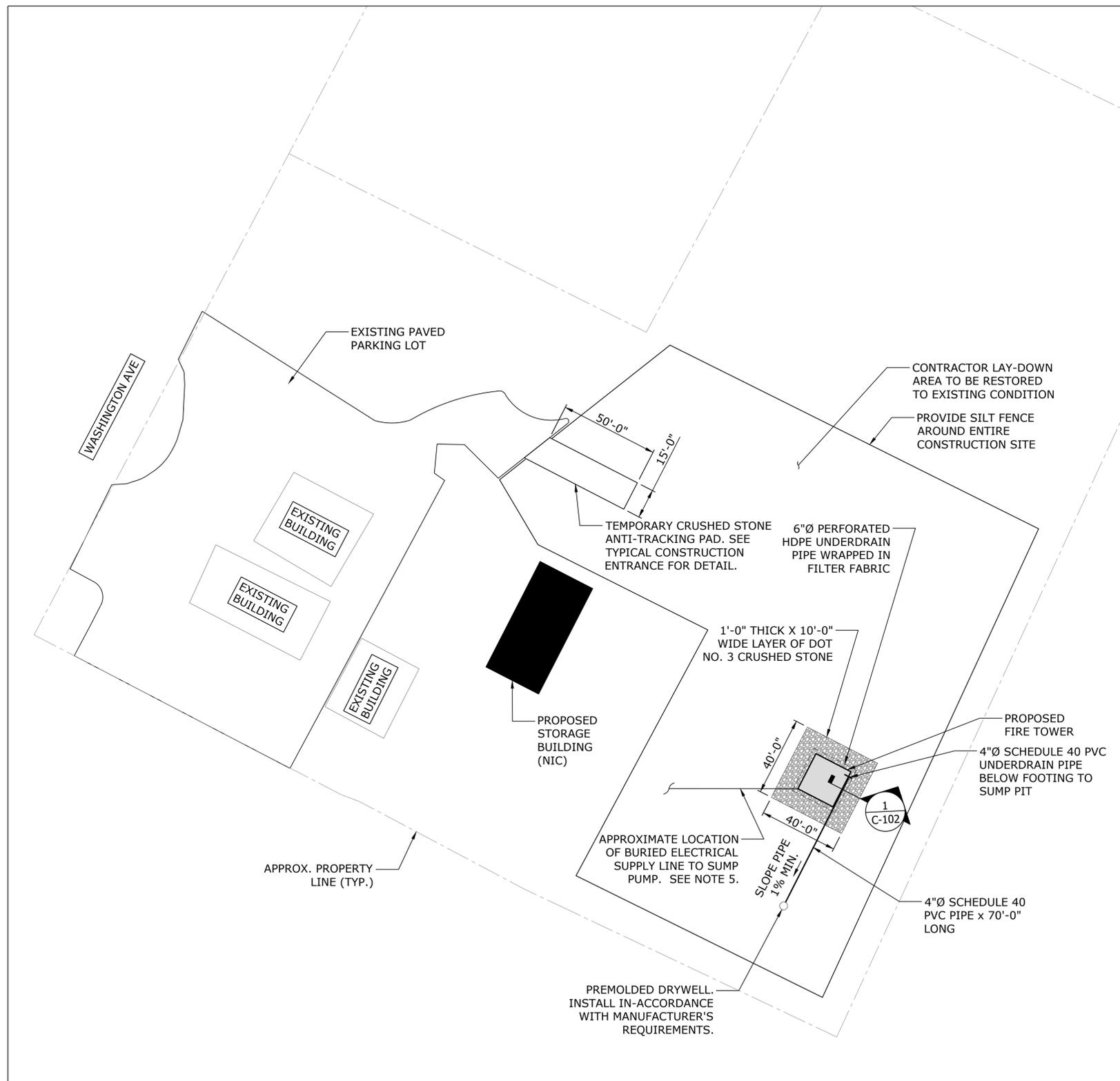


CONSULTING ENGINEERS



GM2 Associates, Inc.
Consulting Engineers
115 Glastonbury Boulevard
Glastonbury, CT 06033

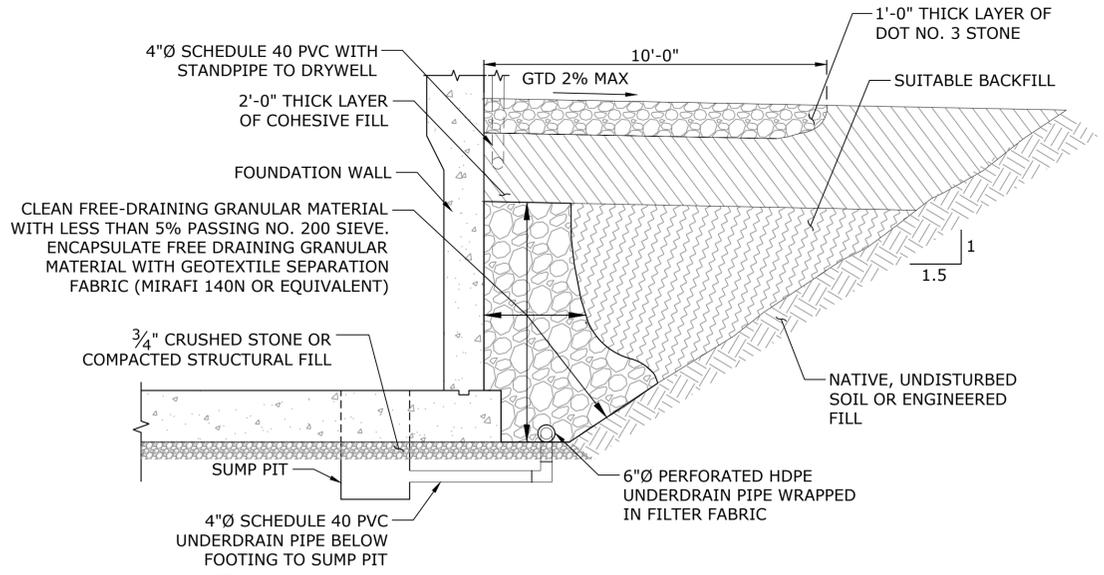
05/2020
DATE



- NOTES:**
- INFORMATION ON THIS DRAWING WAS TAKEN FROM TOWN OF NORTH HAVEN GIS MAPPING WEB-SITE. ACCURACY OF THIS MAPPING IS NOT GUARANTEED.
 - CONTRACTOR SHALL PERFORM SITE/SURVEY TO DETERMINE ACTUAL PROPERTY BOUNDARY LOCATIONS AND LOCATE PROPOSED BUILDINGS ON SITE TO MEET ALL REQUIRED SETBACKS.
 - CONTRACTOR SHALL PERFORM A TOPOGRAPHIC SURVEY TO DETERMINE EXISTING GRADES AND ELEVATIONS AT THE CORNERS AND ALONG THE PERIMETER OF PROPOSED FIRE TOWER BUILDING. CONTRACTOR SHALL SUBMIT THE EXISTING ELEVATIONS TO THE ENGINEER FOR REVIEW. THE ENGINEER WILL SELECT THE FINAL FINISH GRADE ELEVATION TO SERVE AS THE DATUM ELEVATION FOR THE PROJECT. SIGNIFICANT REGRADING IS NOT ANTICIPATED ON THIS SITE.
 - CONTRACTOR TO PROVIDE TEMPORARY CRUSHED STONE ANTI-TRACKING PAD. TEMPORARY CRUSHED STONE ANTI-TRACKING PAD SHALL BE A MINIMUM OF 1'-0" DEEP X 15'-0" WIDE AND 50'-0" LONG.
 - CONTRACTOR TO PROVIDE BURIED POWER SUPPLY LINE TO NEW SUMP PUMP FROM EXISTING FIRE DEPARTMENT FACILITIES. LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY FIRE DEPARTMENT. POWER SUPPLY LINE SHALL BE CONSTRUCTED TO MEET ALL CURRENT CODE REQUIREMENTS AND SHALL INCLUDE ALL COMPONENTS AND CONSTRUCTION ACTIVITIES REQUIRED TO PROVIDE POWER TO THE PUMP.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF EXCESS MATERIAL.

- SUMP PUMP NOTE:**
- CONTRACTOR TO PROVIDE SUMP PUMP CAPABLE OF LIFTING WATER 18FT MINIMUM VERTICALLY FROM BOTTOM OF SUMP PIT TO DISCHARGE ELEVATION (MIN. 18FT STATIC HEAD).

GTD = GRADE TO DRAIN
NIC = NOT IN CONTRACT



1 TYPICAL EXCAVATION DETAIL
C-102 SCALE: 3/8" = 1'-0"

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					Filename: 20190717 NHFT - Location Plan C02										

BUILDING

1. USE GROUP CLASSIFICATION (IBC CHAPTER 3)
 PRIMARY U (UTILITY AND MISCELLANEOUS)

2. CONSTRUCTION TYPE (IBC CHAPTER 6)
 MINIMUM TYPE REQUIRED IIIB
 MINIMUM TYPE PROVIDED IIIB

3. BUILDING HEIGHT (IBC CHAPTER 5)
 ALLOWABLE HEIGHT 1 STORY / 40 FEET (NON-SPRINKLERED)
 ACTUAL HEIGHT 5 STORIES + BASEMENT / 52 FEET +-
 STORIES ABOVE GRADE 5 STORIES

4. BUILDING AREA (IBC CHAPTER 5)
 BUILDING AREA (EACH FLOOR INTERIOR FACE OF EXTERIOR WALLS)
 BASEMENT 312 SF
 FIRST FLOOR 278 SF
 SECOND FLOOR 324 SF
 THIRD FLOOR 324 SF
 FOURTH FLOOR 324 SF
 FIFTH FLOOR 324 SF
 TOTAL 1886 SF

5. AREA MODIFICATIONS (TO TABLE 506.2)

	NORTH	EAST	WEST	SOUTH
PERIMETER =	20 FT	20 FT	20 FT	20 FT
FRONTAGE =	20 FT	20 FT	20 FT	20 FT

TOTAL PERIMETER P = 80 FT
 TOTAL FRONTAGE F = 80 FT
 WIDTH OF OPEN SPACE W=30 FT
 % INCREASE FOR FRONTAGE $I_f = 100*(F/P - 0.25)*W/30 = 75\%$

6. CASE I - SINGLE OCCUPANCY OR NONSEPARATED USES (ALLOWABLE AREA IBC 506.2)
 TABULAR AREA $A_t = 5,500$ SF
 TABULAR AREA (NONSPRINKLERED) NS = 5,500 SF

ALLOWABLE AREA (GROSS):
 NUMBER OF STORIES $S_a = 3$ (NOT TO EXCEED 3)
 ALLOWABLE AREA $A_a = [A_t + (NS*I_f)]*S_a = 28,875$ SF (GROSS)

ALLOWABLE AREA (PER FLOOR):
 NUMBER OF STORIES $S_a = 1$
 ALLOWABLE AREA $A_a = [A_t + (NS*I_f)]*S_a = 9,625$ SF (PER FLOOR)

ACTUAL BUILDING AREA

BASEMENT	312 SF	<	9625 SF	OK
FIRST FLOOR	278 SF	<	9625 SF	OK
SECOND FLOOR	324 SF	<	9625 SF	OK
THIRD FLOOR	324 SF	<	9625 SF	OK
FOURTH FLOOR	324 SF	<	9625 SF	OK
FIFTH FLOOR	324 SF	<	9625 SF	OK
TOTAL	1886 SF	<	28,875 SF	OK

7. CASE II - MIXED OCCUPANCY SEPARATED USES
 NOT APPLICABLE (SEE CASE I)

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

STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, ETC.)	0	HRS
BEARING WALLS (EXTERIOR)	0	HRS
BEARING WALLS (INTERIOR)	0	HRS
NONBEARING WALLS AND PARTITIONS (EXTERIOR)	0	HRS
NONBEARING WALLS AND PARTITIONS (INTERIOR)	0	HRS
FLOOR CONSTRUCTION (INCLUDING BEAMS AND JOISTS)	0	HRS
ROOF CONSTRUCTION (INCLUDING BEAMS AND JOISTS)	0	HRS

9. OCCUPANCY LOAD
 DESIGN TOTAL FOR EACH FLOOR:

BASEMENT	2 P
FIRST FLOOR	1 P
SECOND FLOOR	2 P
THIRD FLOOR	2 P
FOURTH FLOOR	2 P
FIFTH FLOOR	2 P
TOTAL	11 P

TOTAL EXIT CAPACITY FOR EACH FLOOR

BASEMENT	126 P
FIRST FLOOR	126 P
SECOND FLOOR	126 P
THIRD FLOOR	126 P
FOURTH FLOOR	126 P
FIFTH FLOOR	126 P
TOTAL	756 P

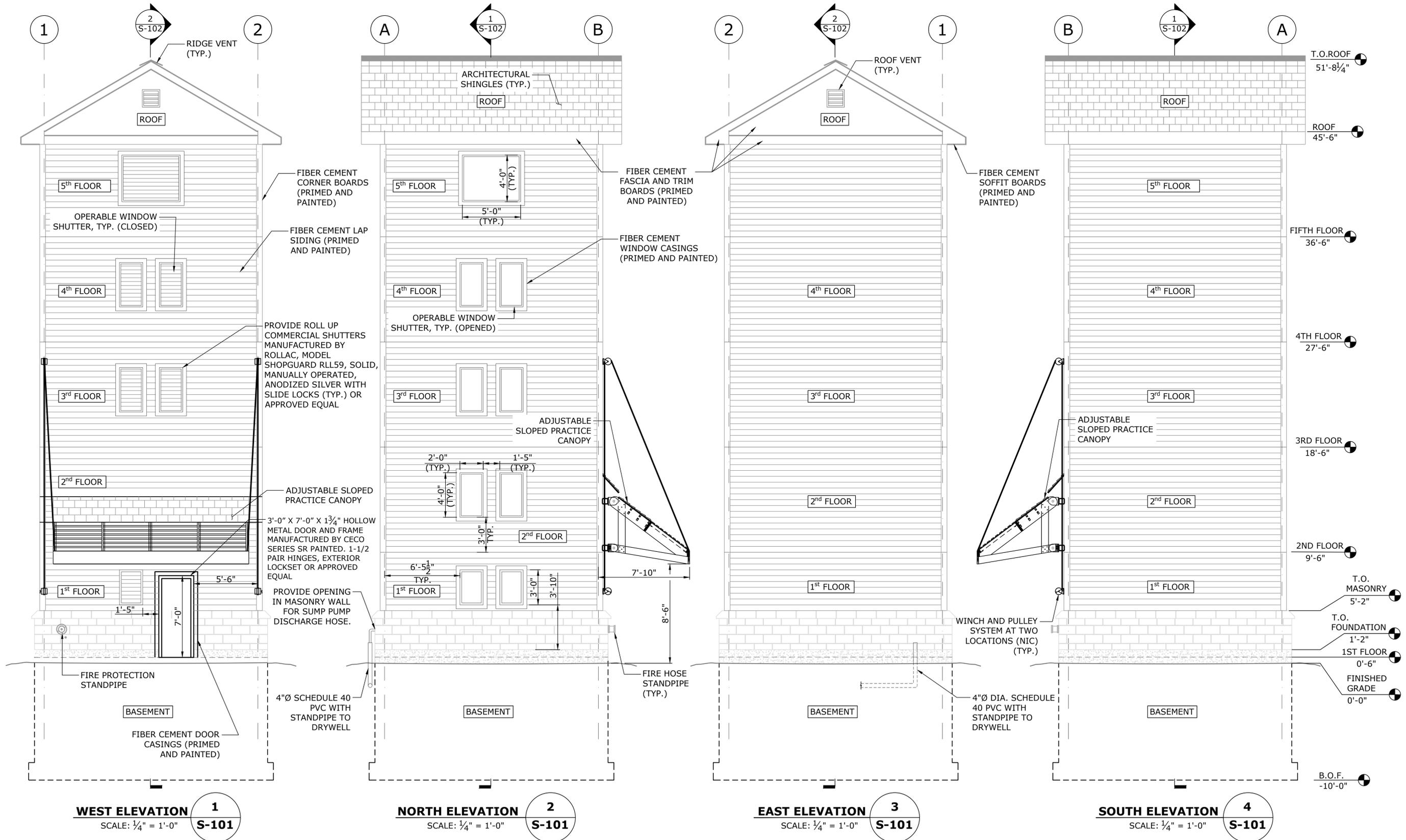
10. MODIFICATIONS

MOD #M-20-0272: ALLOWABLE NUMBER OF STORIES - LIMITED TO 1
 (IBC CHAPTER 5 - TABLE 504.4)

11. ACCESSIBLE BUILDING NON-DESIGNATED
 12. MINIMUM PLUMBING FIXTURE COUNT NO PLUMBING FIXTURES
 13. SPRINKLER PROTECTION NOT SPRINKLERED
 14. CODES TO WHICH THIS PROJECT WAS DESIGNED
 INTERNATIONAL BUILDING CODE 2015
 CONNECTICUT STATE BUILD CODE 2018
 15. THRESHOLD BUILDING CONDITION YES

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					CHECKED BY: JKD					DRAWING NO. G-101
					SCALE AS NOTED			DRAWING TITLE: CODE INFORMATION		SHEET NO.
					Filename: 20190717 NHFT - Code Information G101					

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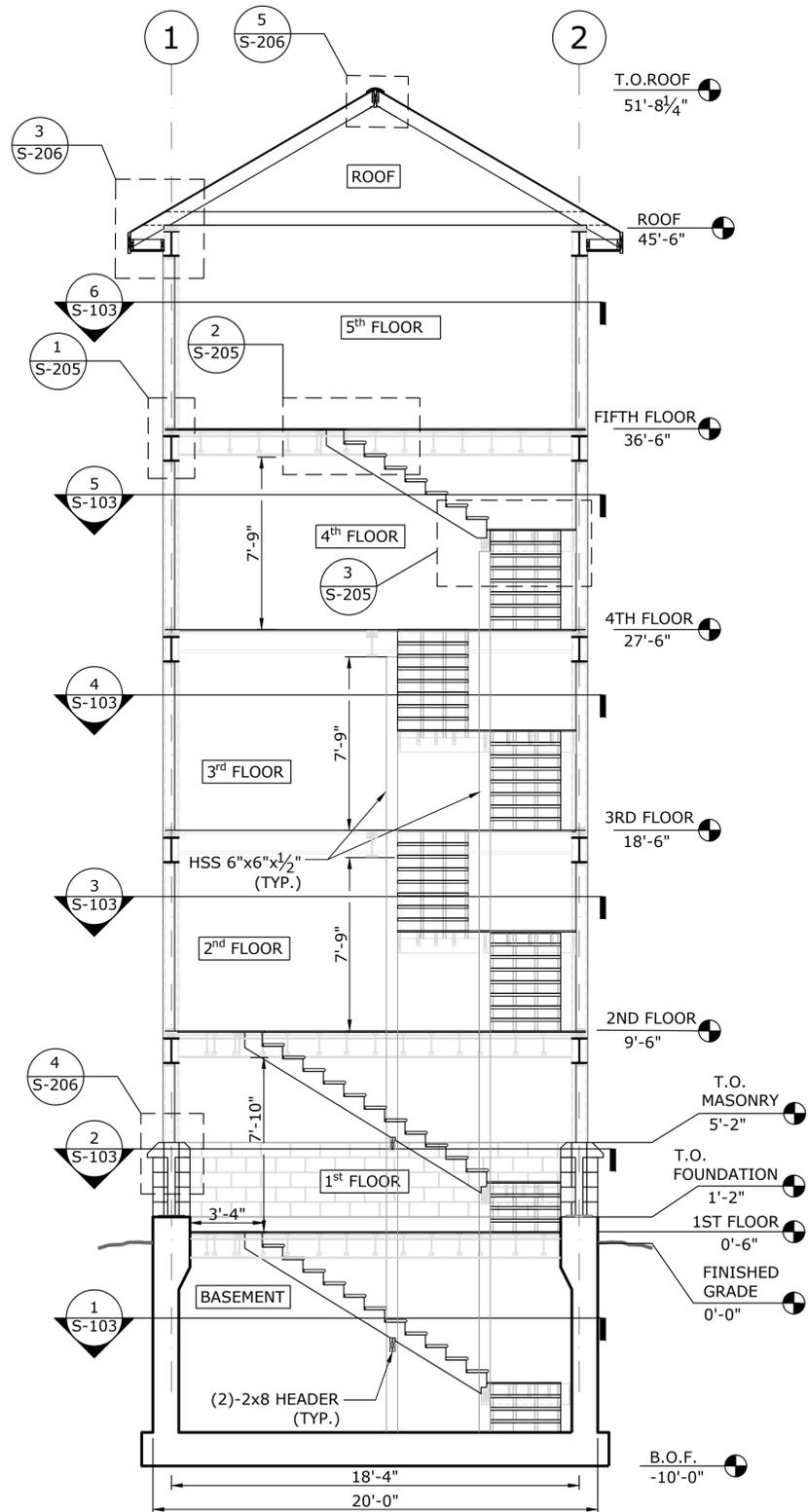
WEST ELEVATION 1
SCALE: 1/4" = 1'-0" **S-101**

NORTH ELEVATION 2
SCALE: 1/4" = 1'-0" **S-101**

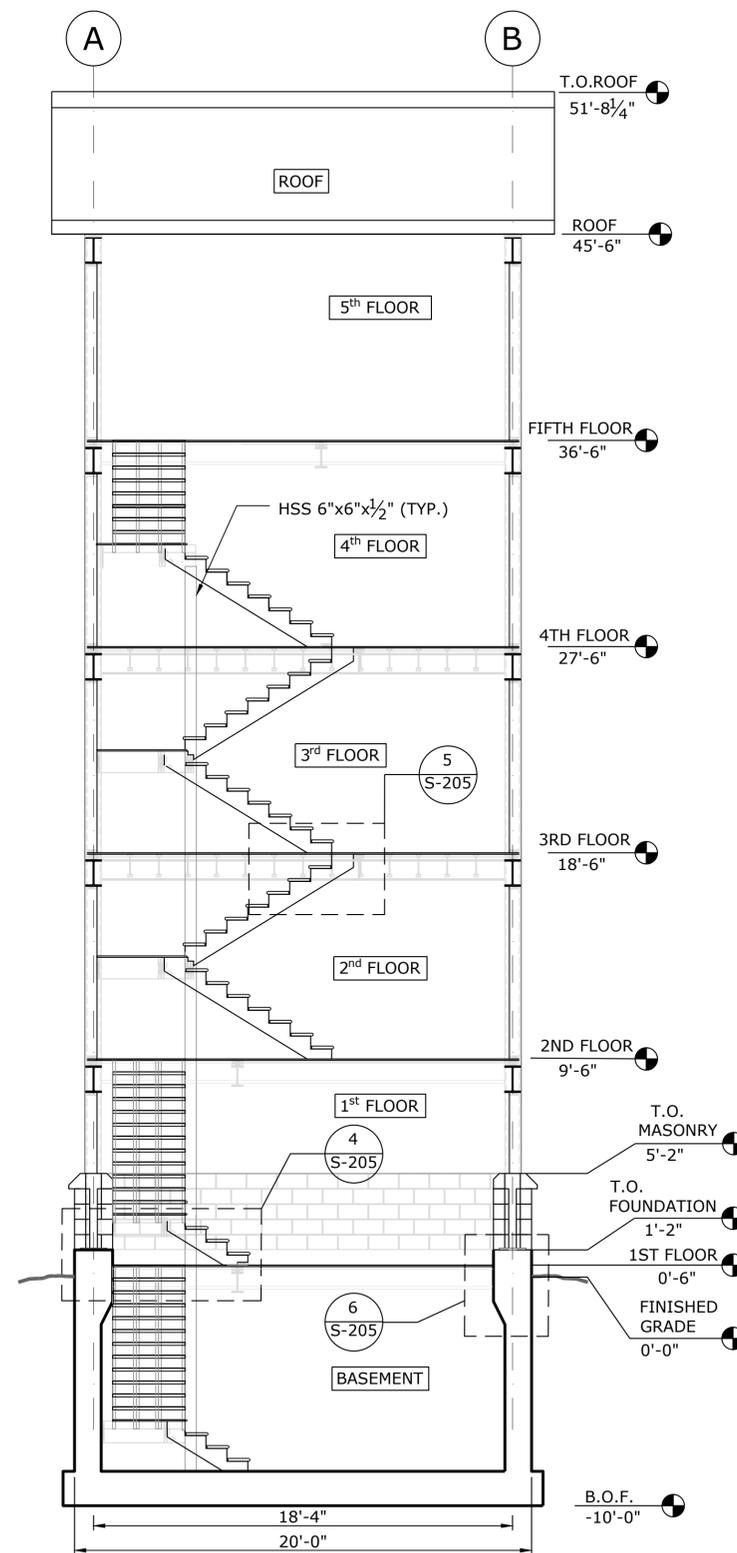
EAST ELEVATION 3
SCALE: 1/4" = 1'-0" **S-101**

SOUTH ELEVATION 4
SCALE: 1/4" = 1'-0" **S-101**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:52 PM	DESIGNER/DRAFTER: NB	CHECKED BY: JKD	SCALE AS NOTED	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN: NORTH HAVEN	DRAWING TITLE: EXTERIOR ELEVATIONS	PROJECT NO. 20191094-00
												DRAWING NO. S-101	SHEET NO.



SECTION 1
SCALE: 1/4" = 1'-0" **S-102**



SECTION 2
SCALE: 1/4" = 1'-0" **S-102**

TYPICAL ARCHITECTURAL WALL CROSS-SECTION COMPONENTS:

- FIBER CEMENT LAP SIDING (PRIMED AND PAINTED)
- BUILDING WRAP - AIR AND VAPOR BARRIER
- 5/8" CDX EXTERIOR GRADE (FRTW)
- 2"x6" STUDWALL DOUGLAS FIR-LARCH (FRTW)
- 1/2" CDX EXTERIOR GRADE (FRTW)

TYPICAL EXTERIOR ARCHITECTURAL WALL ACCESSORIES:

- FIBER CEMENT CORNER BOARDS
- FIBER CEMENT DOOR AND WINDOW CASINGS
- FIBER CEMENT FASCIA AND TRIM BOARDS
- FIBER CEMENT SOFFIT BOARDS
- ALL FIBER CEMENT BOARDS TO BE PRIMED AND PAINTED

TYPICAL INTERIOR ARCHITECTURAL WALL ACCESSORIES:

- FIBER CEMENT DOOR AND WINDOW CASINGS

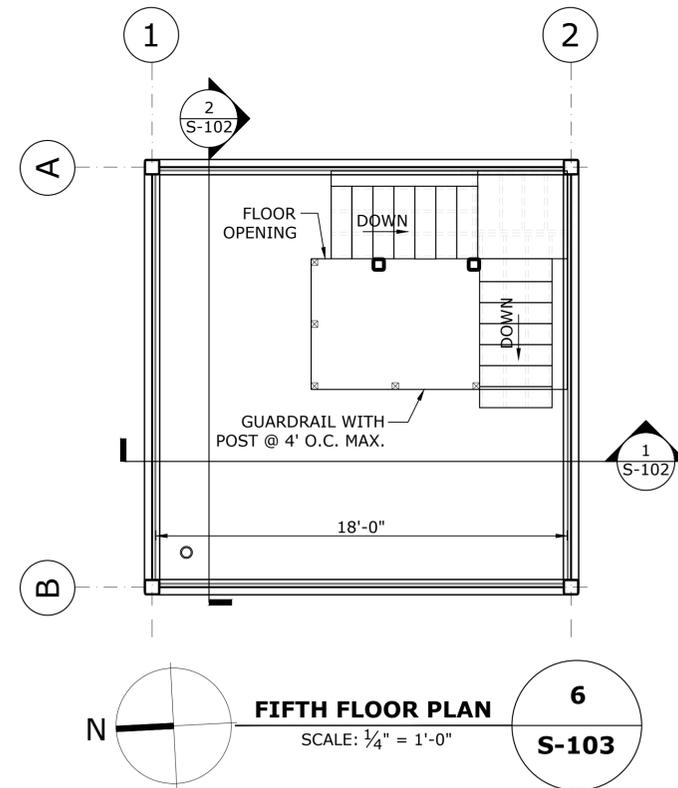
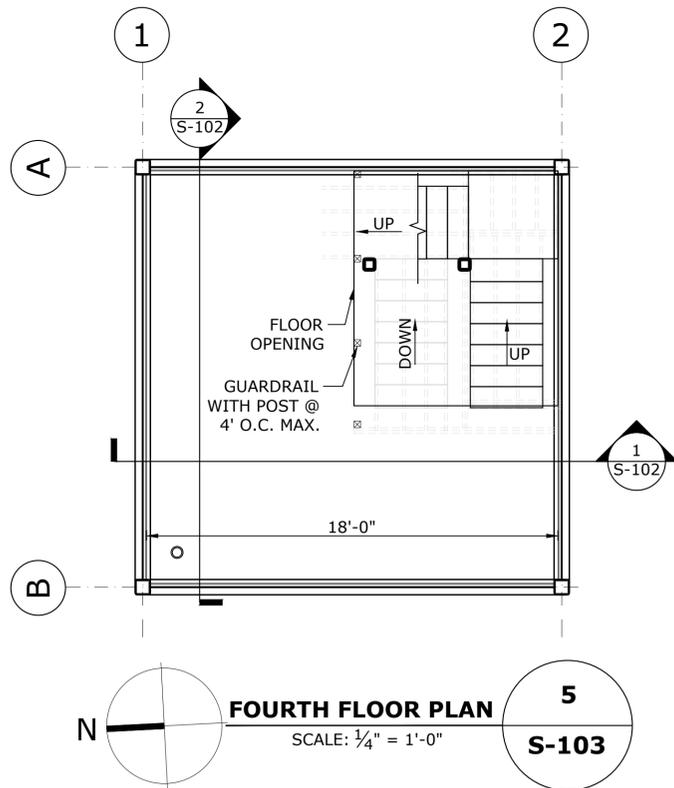
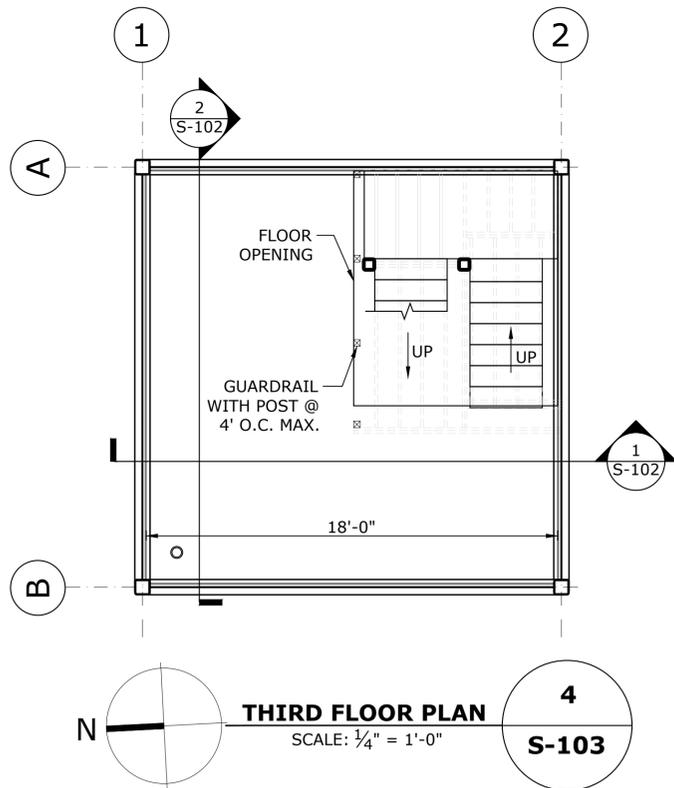
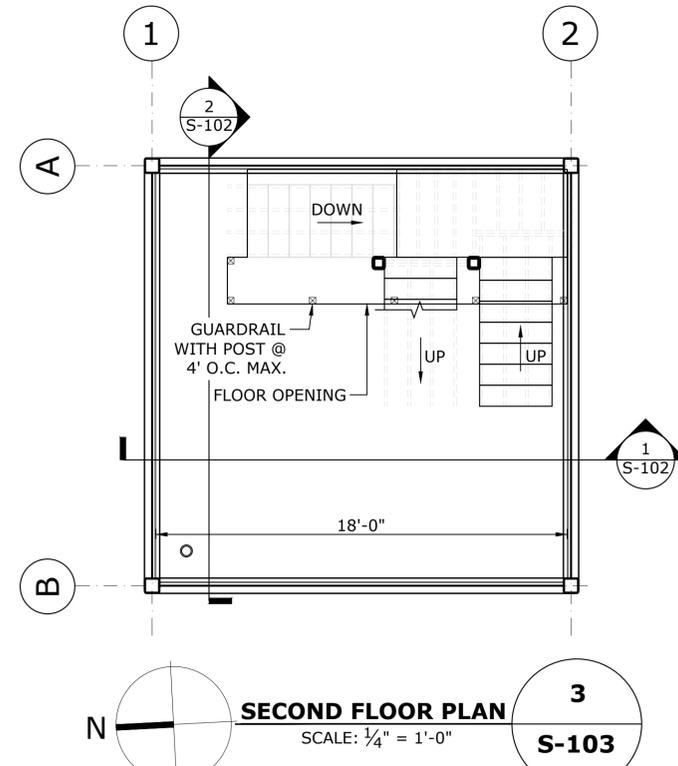
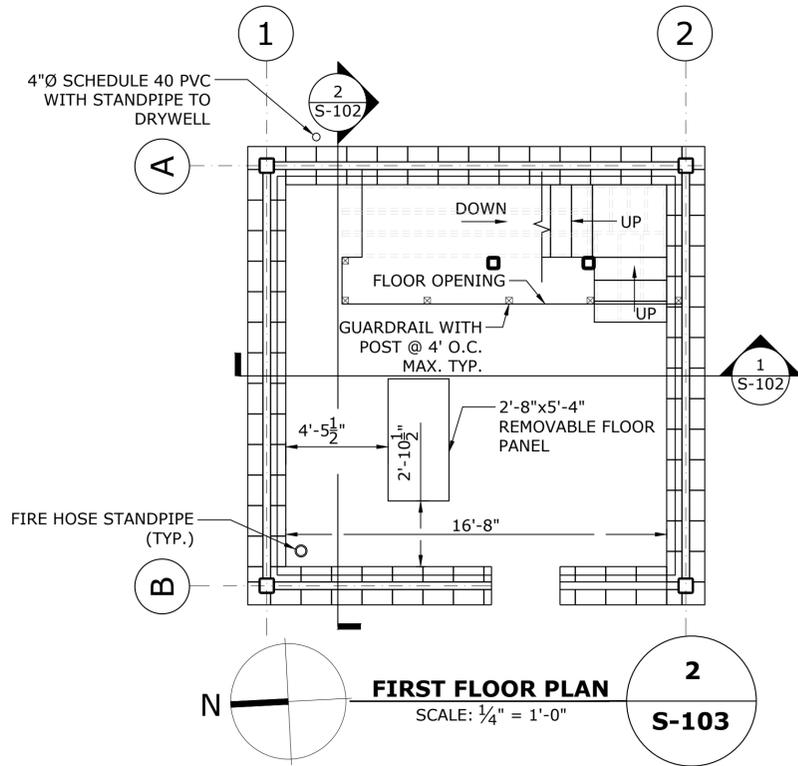
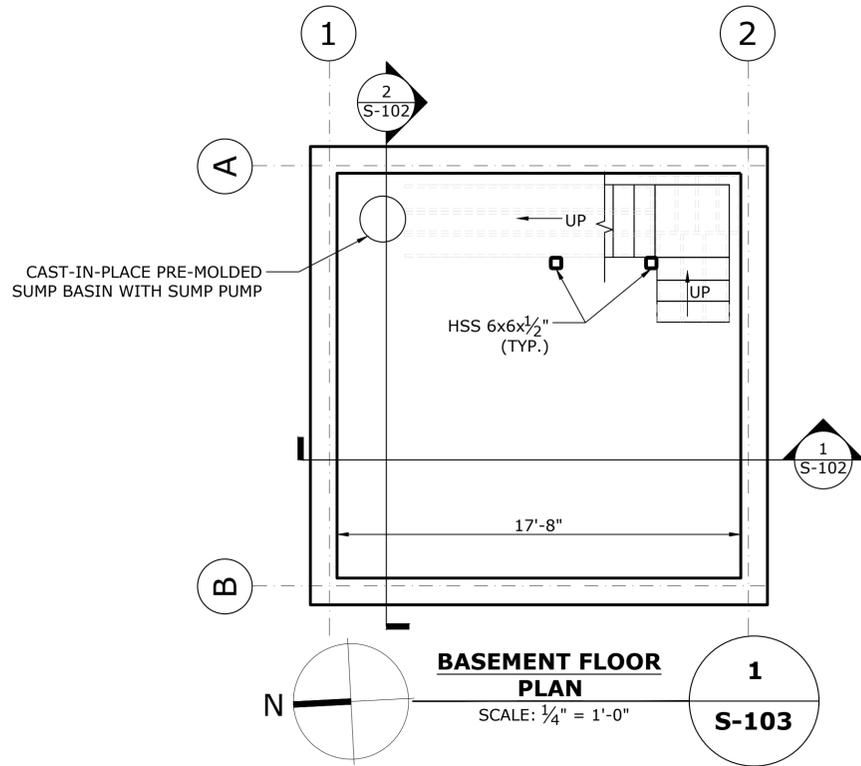
ABBREVIATIONS:

- FRTW = FIRE RETARDANT TREATED WOOD
- PT = PRESSURE TREATED

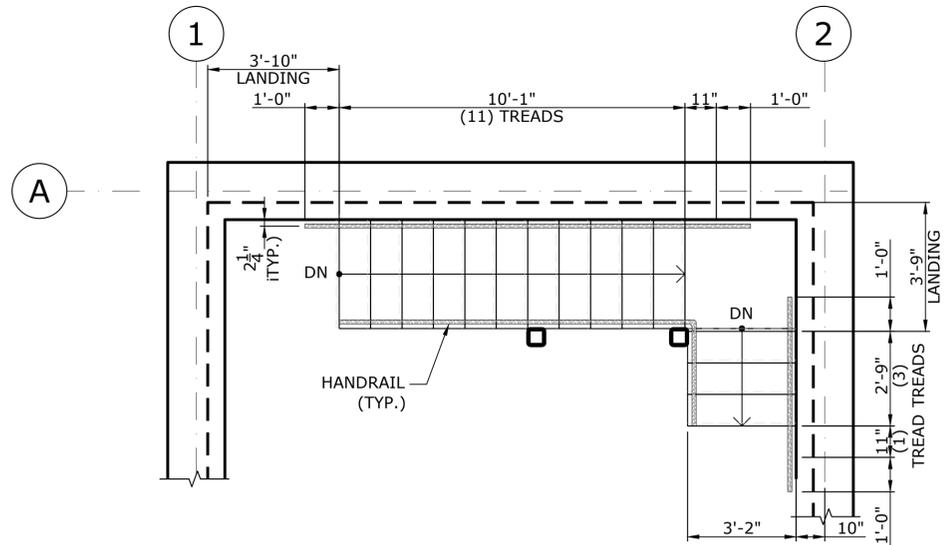
NOTE:

CANOPY, WINCH AND PULLEY SYSTEM NOT SHOWN FOR CLARITY.

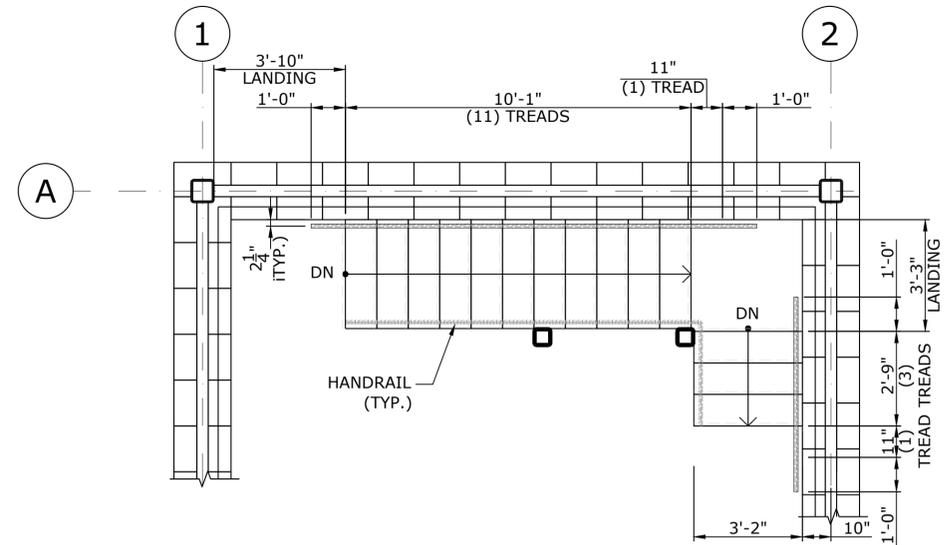
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Plotted Date: 5/20/2020 2:53 PM		Filename: 20190717 NHFT - Elevation Section S102	DRAWING TITLE: BUILDING SECTIONS		DRAWING NO.: S-102	SHEET NO.:



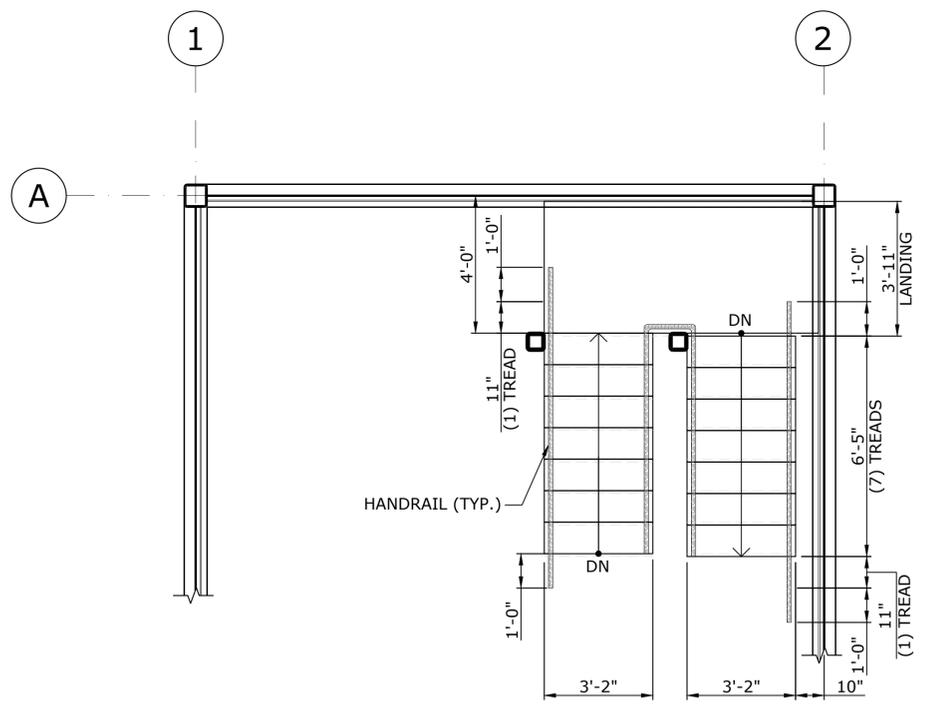
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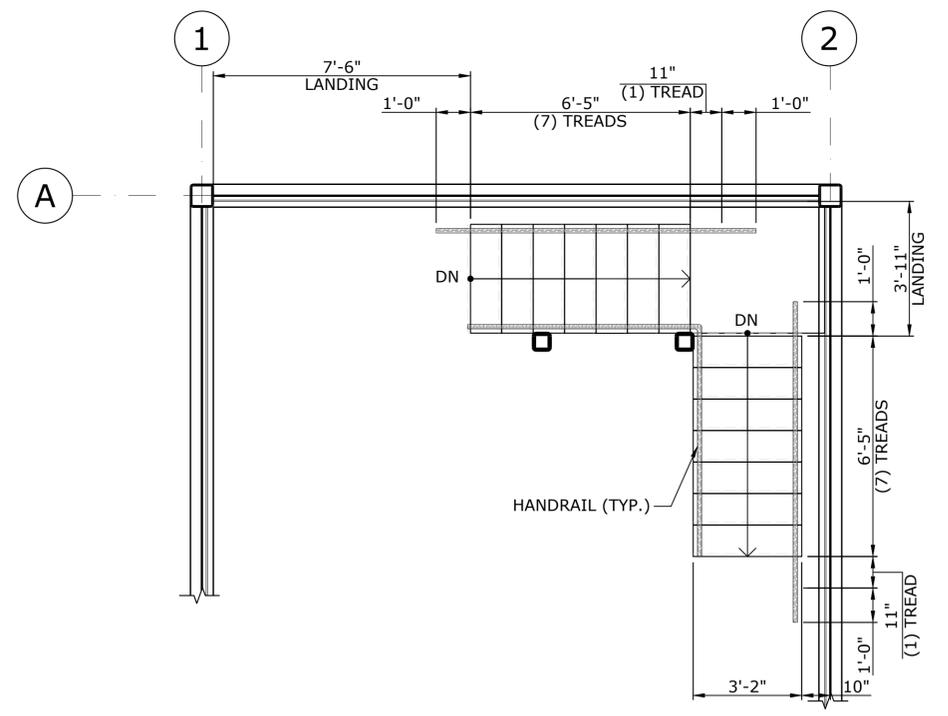
STAIR TYPE 1
SCALE: 3/8" = 1'-0"
1
S-104



STAIR TYPE 2
SCALE: 3/8" = 1'-0"
2
S-104



STAIR TYPE 3
SCALE: 3/8" = 1'-0"
3
S-104



STAIR TYPE 4
SCALE: 3/8" = 1'-0"
4
S-104

NOTES:

1. RAILING POSTS NOT SHOWN FOR CLARITY. SEE DRAWING NO. S-204 FOR RAIL POST LAYOUT.
2. ALL WOOD STAIR AND RAIL COMPONENTS SHALL BE PRESSURE TREATED (PT), UNLESS NOTED OTHERWISE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER:
NB
CHECKED BY:
JKD
SCALE AS NOTED

FILENAME: 20190717 NHFT - Stair Sections S104

SIGNATURE/BLOCK:
GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:
**NORTH HAVEN
FIRE TOWER**

TOWN:
NORTH HAVEN
DRAWING TITLE:
**STAIR FLOOR PLANS
AND DETAILS**

PROJECT NO.:
20191094-00
DRAWING NO.:
S-104
SHEET NO.:

BUILDING CODE:

2018 CONNECTICUT STATE BUILDING CODE
 INTERNATIONAL BUILDING CODE (2015)
 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE (7-10)
 AMERICAN CONCRETE INSTITUTE ACI-318 2014
 AMERICAN CONCRETE INSTITUTE ACI-530 2013
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC 360-10 SPECIFICATION
 AMERICAN WELDING SOCIETY D1.4/D1.4M 2011
 AMERICAN WOOD COUNCIL ANSI/AWC NDS 2015

DESIGN LOADS:

A. FLOOR LIVE LOADS:	100 PSF
B. DEAD LOADS:	
NEW FLOOR CONSTRUCTION: 9-1/2"-230 TJI's @ 16"O.C.	3 PSF
3/4" AB MARINE GRADE PLYWOOD	3 PSF
TOTAL	6 PSF
NEW WALL CONSTRUCTION: 5/8" CDX SHEATHING	3 PSF
2"x6" @16"O.C. STUDS	5 PSF
1/2" CDX SHEATHING	2 PSF
TOTAL	10 PSF
NEW ROOF CONSTRUCTION: ARCHITECTURAL SHINGLES	3 PSF
1/2" CDX PLYWOOD	2 PSF
2"x8" @12"O.C. ROOF RAFTERS	6 PSF
2"x12" @12"O.C. ROOF BEAMS	8 PSF
ELECTRICAL, PLUMBING	6 PSF
TOTAL	25 PSF
C. SNOW LOADS:	
GROUND SNOW LOAD	PG = 30 PSF
ROOF SNOW LOADS	PS = 23 PSF
SNOW LOAD IMPORTANCE FACTOR:	IS = 1.0
THERMAL FACTOR	CT = 1.2
SNOW EXPOSURE FACTOR	CE = 0.9
D. WIND LOADS:	
BASIC WIND SPEED	VULT = 125 MPH
RISK CATEGORY	RC = II
WIND DIRECTIONALITY FACTOR	KD = 0.85
SURFACE ROUGHNESS CATEGORY	SRC = C
EXPOSURE CATEGORY	EXC = C
TOPOGRAPHIC FACTOR	KZT = 1.0
GUST EFFECT FACTOR	G = 0.85
ENCLOSURE CLASSIFICATION	ENC = ENCLOSED
INTERNAL PRESSURE COEFFICIENT	GCPI = ± 0.18
VELOCITY PRESSURE	QZ = 37.2 PSF
C&C (COMPONENTS AND CLADDING)	
DESIGN WALL WIND PRESSURE	Pw = +44 PSF, -59 PSF
E. EARTHQUAKE:	
RISK CATEGORY	RC =II
SEISMIC IMPORTANCE FACTOR	IS = 1.0
0.2S MAPPED SPECTRAL RESPONSE ACCELERATION	SS = 0.184
1S MAPPED SPECTRAL RESPONSE ACCELERATION	S1 = 0.062
SITE CLASS	SC = D
0.2S DESIGN SPECTRAL RESPONSE ACCELERATION	Sds = 0.196
1S DESIGN SPECTRAL RESPONSE ACCELERATION	Sd1 = 0.1
SEISMIC DESIGN CATEGORY:	SDC = B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS	
DESIGN BASE SHEAR:	V = 5 KIPS
SEISMIC RESPONSE COEFFICIENT:	CS = 0.06
RESPONSE MODIFICATION FACTOR:	R = 3.00
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE
LIVE LOAD REDUCTION WAS NOT USED IN DESIGN	

MATERIAL PROPERTIES

STRUCTURAL STEEL	
WIDE FLANGE SHAPES (ASTM A992)	FY = 50 KSI
CHANNELS, ANGLES, M AND S SHAPES (ASTM A 36)	FY = 36 KSI
PLATES AND BARS (ASTM A 36)	FY = 36 KSI
HOLLOW STRUCTURAL STEEL (ASTM A 500, GRADE B)	FY = 46 KSI
STEEL PIPE (ASTM A 53, GRADE B)	FY = 35 KSI
WELDING ELECTRODES (E70XX)	FY = 70 KSI
HIGH-STRENGTH BOLTS (ASTM A 325)	

HEAVY HEX CARBON STEEL NUTS (ASTM A 563)	
HARDENED CARBON STEEL WASHERS (ASTM F 436)	
HEADED-STUD SHEAR CONNECTORS (ASTM A 108)	
ANCHOR RODS (ASTM F 1554, GRADE 55)	FY = 55 KSI
GALV. STEEL DECKING (ASTM A 563, GRADE 33)	FY = 33 KSI
GALVANIZING (ASTM A 563, G60)	

CONCRETE	
ELEVATED SLABS (LIGHTWEIGHT 115PCF)	F' C = 4,000 PSI AT 28 DAYS
SLABS-ON-GRADE	F' C = 4,000 PSI AT 28 DAYS
FOOTINGS	F' C = 4,000 PSI AT 28 DAYS
FOUNDATION WALLS	F' C = 4,000 PSI AT 28 DAYS
	FY = 60 KSI

REINFORCEMENT STEEL (ASTM A 615, GRADE 60)	
WELDED WIRE REINFORCEMENT (ASTM A 185)	
JOINT DOWEL BARS (ASTM A 615, GRADE 60)	FY = 60 KSI
PORTLAND CEMENT (ASTM C 150, TYPE I OR II)	
NORMAL-WEIGHT AGGREGATE (ASTM C 33)	
LIGHTWEIGHT AGGREGATE (ASTM C 330)	
MASONRY ASSEMBLY (ASTM C 90)	F' M = 1,500 PSI
MORTAR (ASTM C 207)	TYPE S, PORTLAND CEMENT
	FY = 70 KSI
MASONRY JOINT REINFORCEMENT (ASTM A 951)	F' C = 2,000 PSI
GROUT FOR MASONRY (ASTM C 476)	

WOOD	
1	WOOD FRAMING INCLUDING SILLS AND LEDGERS IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURED TREATED (PT).
2.	ALL WOOD FOR EXTERIOR WALLS INCLUDING BUT NOT LIMITED TO SILLS, PLATES, STUDS, INTERIOR AND EXTERIOR SHEATHING SHALL BE FIRE RETARDANT TREATED WOOD (FRTW).

WOOD FRAMING	SELECT STRUCTURAL DOUGLAS FIR-LARCH
	HILTI HIT RE 500 SD
	HILTI HIT HY 150 W/ T Z ROD
	MIRAFI 140N OR EQUIVALENT
ADHESIVE REBAR ANCHORS:	
ADHESIVE ANCHOR BOLTS:	
GEOTEXTILE FILTER FABRIC:	

GENERAL NOTES:

- CONTRACTOR TO COORDINATE STRUCTURAL DRAWINGS WITH OTHER DISCIPLINES. CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ALL REQUIREMENTS IN THE SHOP DRAWINGS AND WORK.
- DO NOT CHANGE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF STRUCTURAL MEMBERS AT THE TIME LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE STRUCTURE IS DEPENDENT UPON THE LATERAL FORCE RESISTING SYSTEM INCLUDING BUT NOT LIMITED TO BRACED FRAMES, ANCHORAGES AND ATTACHMENTS FOR STABILITY AND FOR RESISTANCE TO GRAVITY AND LATERAL FORCES. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SUPPORT AS REQUIRED TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS DURING CONSTRUCTION UNTIL THE ENTIRE STRUCTURE IS IN PLACE.
- DO NOT SCALE DRAWINGS, USE DIMENSIONS.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF ANY DEVIATION BY THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS INFORMED THE ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE DEVIATION.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND MEMBER SIZES ON STRUCTURAL DRAWINGS. PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO REPORT DISCREPANCIES TO ENGINEER BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIALS IN HIS FIELD YARD OR AT A SITE APPROVED BY THE ENGINEER.
- LOCATION OF EXISTING STRUCTURES AND UTILITIES AND MATERIALS OF CONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.

- CONTRACTOR SHALL NOT DISRUPT THE OWNER'S OPERATIONS DURING CONSTRUCTION.
- ALL DISTURBED AREAS TO BE RESTORED TO THE ORIGINAL CONDITIONS.
- CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING TO SUPPORT AND MAINTAIN UTILITIES DURING CONSTRUCTION.
- CONTRACTOR SHALL REQUEST MARK OUT OF UTILITY LOCATIONS FROM "CALL BEFORE YOU DIG" (1-800-922-4455) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OR SET-UP OF PROPOSED LIFTING OPERATION.
- IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND/OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ENGINEER. SHOP DRAWINGS SUBMITTED TO THE ENGINEER WITHOUT FIRST BEING STAMPED "REVIEWED" BY THE CONTRACTOR WILL BE RETURNED WITHOUT BEING REVIEWED. REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL AREA SO AS NOT TO CAUSE A SAFETY HAZARD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, CONSTRUCTION AND REMOVAL OF ANY TEMPORARY SUPPORTS OR SHORING REQUIRED FOR CONSTRUCTION OF THE PROJECT.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FABRICATION AND FIT OF HIS WORK.

FOUNDATION NOTES:

- ALL EARTHWORK FOR BUILDING FOUNDATIONS SHOWN ON CONTRACT DOCUMENTS SHALL BE IN ACCORDANCE WITH THE "GEOTECHNICAL ENGINEERING REPORT" DATED AUGUST 1, 2019. THIS REPORT IS AVAILABLE FOR CONTRACTOR'S USE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DEWATERING THAT MAY BE REQUIRED DURING CONSTRUCTION TO FACILITATE EARTHWORK AND FOUNDATION.
- ALL FILL AND BACKFILL FOR FOOTINGS, SLABS AND WALLS SHALL BE STRUCTURAL FILL, CONFORMING TO THE SPECIFICATIONS.
- SEE FIRE PROTECTIONS DRAWINGS FOR EXACT SIZE OF FLOOR AND WALL PENETRATIONS.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- ALL REINFORCING FOR WALLS AND FOOTINGS SHALL BE CONTINUOUS AND LAPPED 64 BAR DIAMETERS AT ALL SPLICES, CORNERS AND INTERSECTIONS. U.N.O.
- REINFORCING BARS SHALL BE PROTECTED BY THE FOLLOWING THICKNESS OF CONCRETE COVER:
 - A. CONCRETE PLACED AGAINST EARTH 3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #5 BARS AND SMALLER 1 1/2"
 - #6 BARS AND LARGER 2"
 - C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - SLABS, WALLS AND JOISTS:
 - #11 BARS AND SMALLER 3/4"
 - BEAMS AND COLUMNS:
 - ALL BARS 1 1/2"
 - D. IN ALL CASES THE THICKNESS OF CONCRETE OVER THE REINFORCEMENT SHALL BE AT LEAST EQUAL TO THE DIAMETER OF THE REINFORCEMENT.

- CONTRACTOR SHALL COORDINATE LOCATIONS AND DETAILS OF ALL OPENINGS AND EMBEDDED ITEMS WITH THE VARIOUS TRADES.
- CONSTRUCTION JOINTS SHALL BE DETAILED AND LOCATED ON SHOP DRAWINGS AND APPROVED BY ENGINEER. UNLESS SHOWN OTHERWISE, CONSTRUCTION JOINTS ARE TO BE KEYED AND PROVIDE FOR CONTINUITY OF REINFORCING STEEL. CONSTRUCTION JOINTS ARE TO BE LOCATED WHERE CONSTRUCTION OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
-
- CONTROL JOINTS FOR INTERIOR SLABS ON GRADE SHALL GENERALLY BE LOCATED ALONG BUILDING GRID LINES. CONTROL JOINTS FOR OTHER LOCATIONS SHALL FORM UNIFORM PANELS NOT EXCEEDING 250 S.F. TYPICAL CONTROL JOINT PATTERNS ARE INDICATED ON FOUNDATION PLANS.

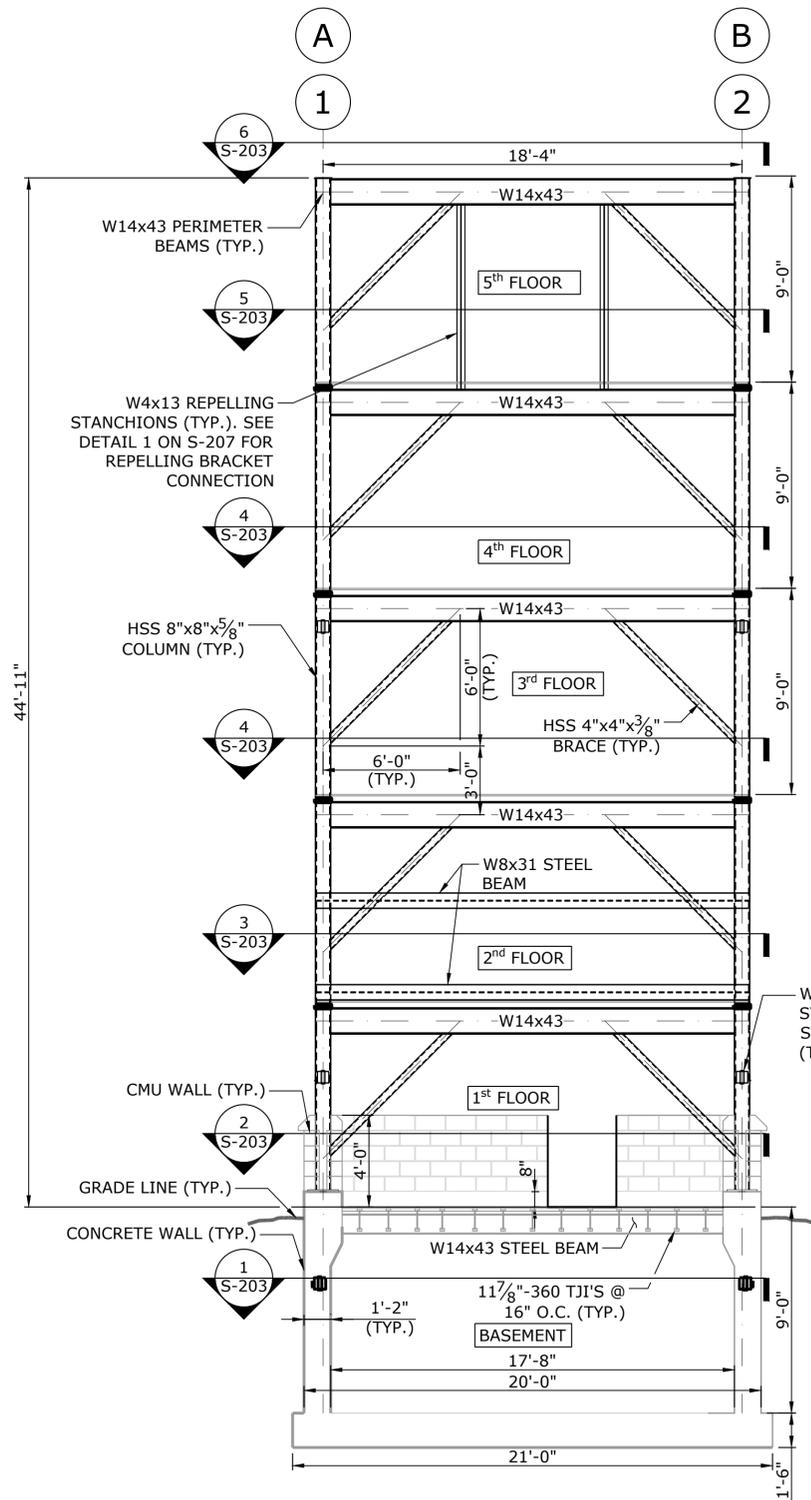
MASONRY NOTES:

- ALL HOLLOW CONCRETE MASONRY UNITS (C.M.U.) SHALL CONFORM TO ASTM C90.
- LAY C.M.U. IN RUNNING BOND USING TWO-CORE C.M.U. THROUGHOUT THE PROJECT EXCEPT WHERE SOLID C.M.U. IS SPECIFIED IN THE CONTRACT DOCUMENTS.
- ALL GROUTING PROCEDURES SHALL CONFORM TO NCMA "TEK-SERIES 3-2". USE FINE GROUT WHEN FILLING BOND BEAMS AND CORES WHEN THE LEAST HORIZONTAL DIMENSION OF THE OPENING TO BE FILLED IS LESS THAN 4 INCHES. USE COARSE GROUT WHEN FILLING BOND BEAMS AND CORES WHEN THE LEAST HORIZONTAL DIMENSION OF THE OPENING TO BE FILLED IS GREATER THAN OR EQUAL TO 4 INCHES.
- ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. ANY LAPS OR SPLICE SHALL BE A MINIMUM OF 48 DIAMETERS OF THE LARGER BAR UNLESS OTHERWISE DIMENSIONED OR CALLED FOR.
- PROVIDE CRADLE TYPE REINFORCEMENT POSITIONERS AT 6'-0" O.C. (MAX.) SPACING FOR BOND BEAMS. FOR VERTICAL REINFORCEMENT, PROVIDE REINFORCEMENT POSITIONERS AT TOP AND BOTTOM OF GROUT LIFTS AND AT 8'-0" (MAX.) SPACING IN-BETWEEN.
- PROVIDE HORIZONTAL JOINT REINFORCEMENT AT EVERY OTHER COURSE.
- OPENINGS REQUIRED IN MASONRY ELEMENTS AND NOT SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS, SHALL BE INSTALLED ONLY WITH THE SPECIAL APPROVAL OF THE ENGINEER AND WITH THE PROPER ADDITIONAL REINFORCING AS SHOWN IN THE CONTRACT DOCUMENTS.
- PROTECT MASONRY WORK FROM HOT AND COLD WEATHER IN ACCORDANCE WITH NCMA "TEK-SERIES 3 - 1A".
- AT ALL MASONRY WALLS, WITH EXCEPTION OF FIREWALLS, PROVIDE AND INSTALL FLEXIBLE ANCHORS AT 16" O.C. TO BRACE MASONRY WALLS TO STRUCTURAL STEEL.
- CONSOLIDATE GROUT PLACEMENT IN CMU CELLS BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURED.

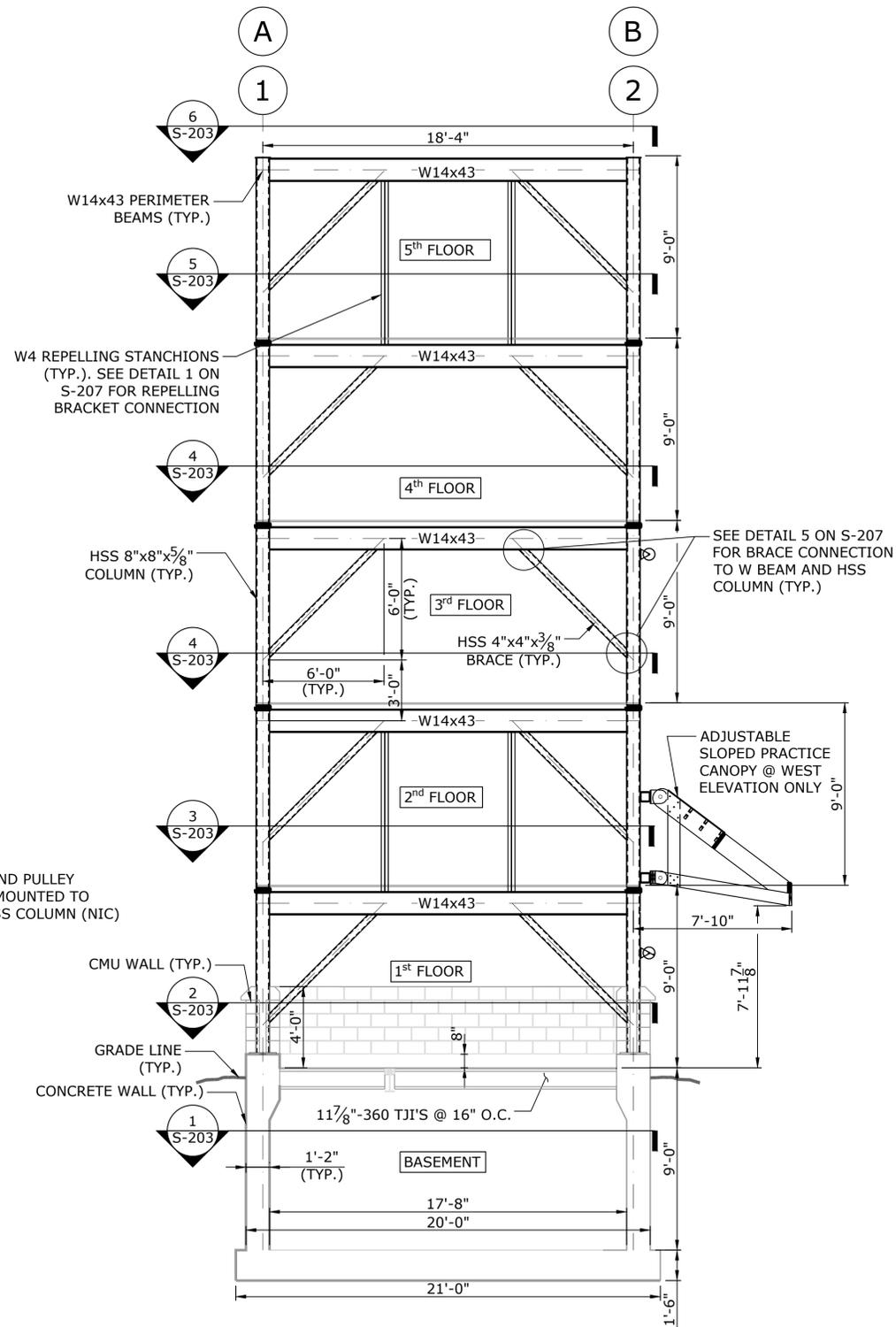
STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- WELDED CONNECTIONS SHALL CONFORM TO THE STATE BUILDING CODE REFERENCED CODE OF THE AMERICAN WELDING SOCIETY.
- ANY CONNECTIONS WITHOUT WELD SYMBOLS SHALL BE A MINIMUM WELDED ALL AROUND WITH THE MINIMUM FILLET OR BUTT WELD SIZE.
- FIELD CONNECTIONS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS UNLESS OTHERWISE SHOWN.
- DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- ALL STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF AISC "DETAILING FOR STEEL CONSTRUCTION". STEEL DETAILING SHALL INCORPORATE ALL CLEARANCES NECESSARY TO PRODUCE PROPER ERECTION CONNECTION AND FIT-UP.
- ALL NEW STEEL FRAMING SHALL BE PRIMED AND PAINTED, UNLESS NOTED AS BEING GALVANIZED. SEE ARCHITECTURAL DRAWING FOR PAINTING REQUIREMENTS.

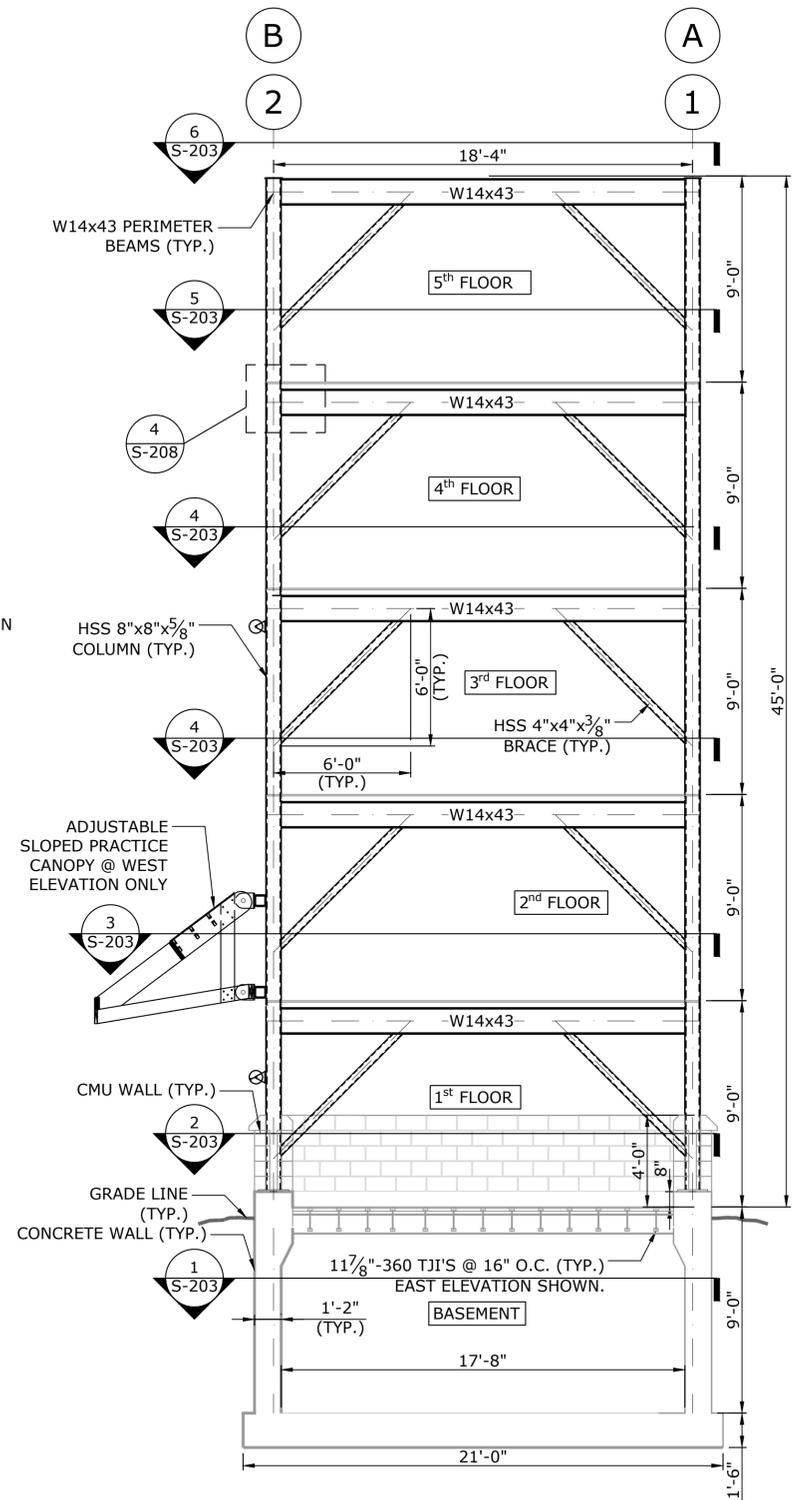
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												DRAWING NO. S-201	SHEET NO.



WEST ELEVATION 1
SCALE: 1/4" = 1'-0" **S-202**



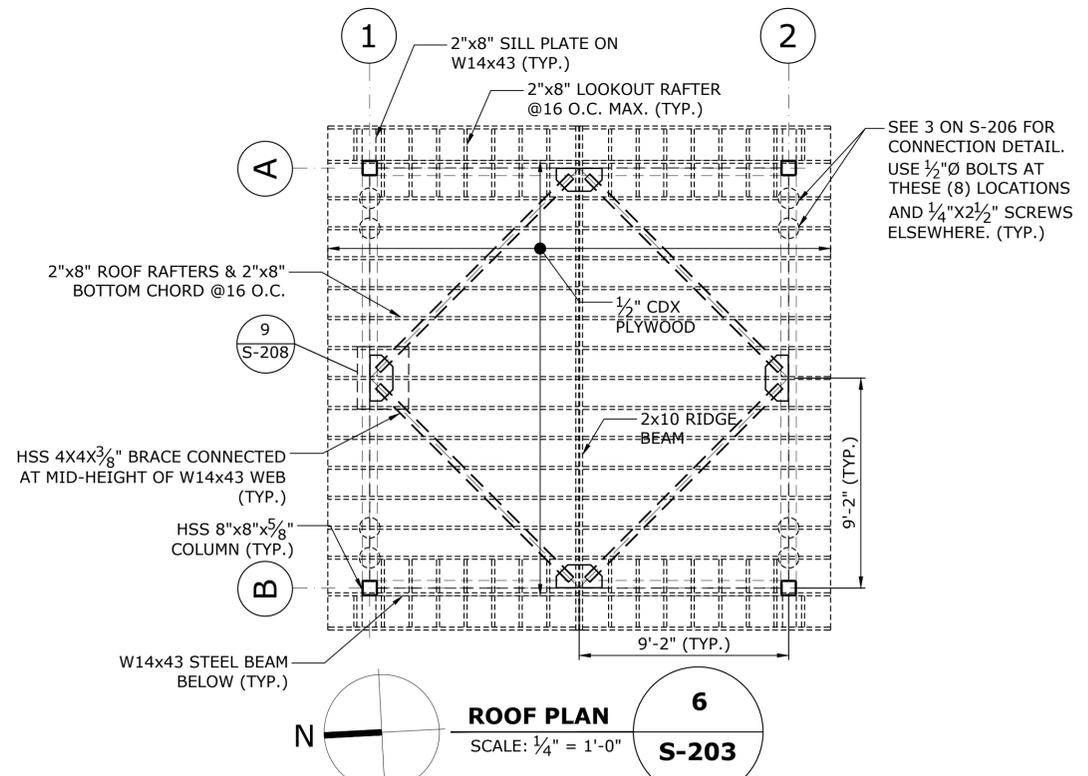
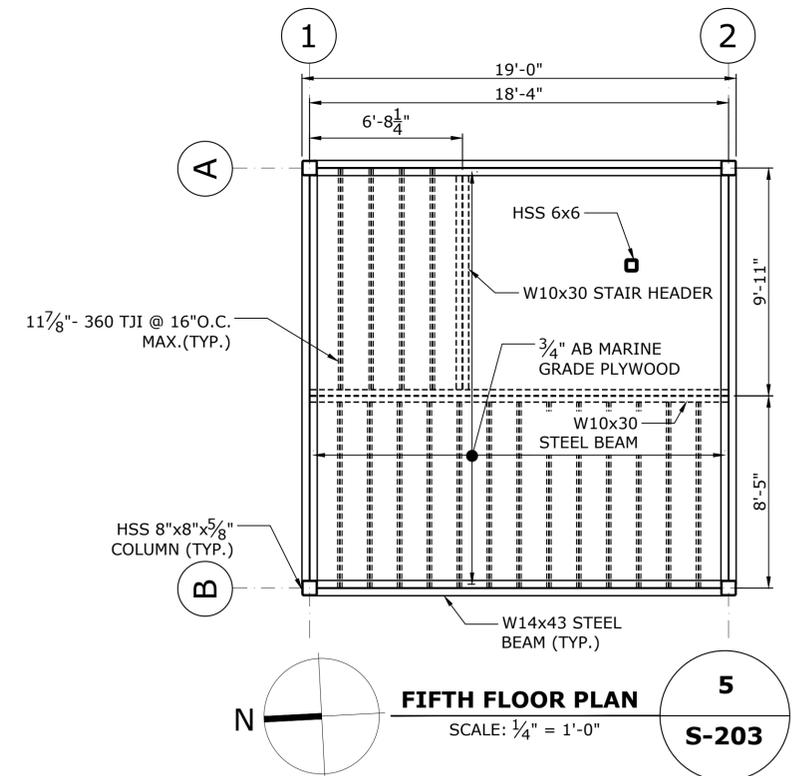
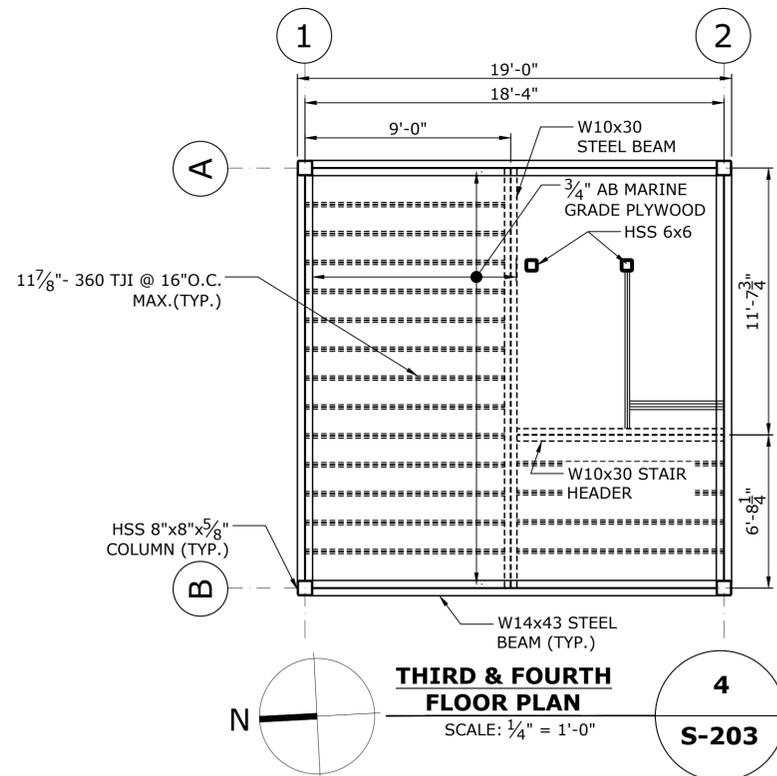
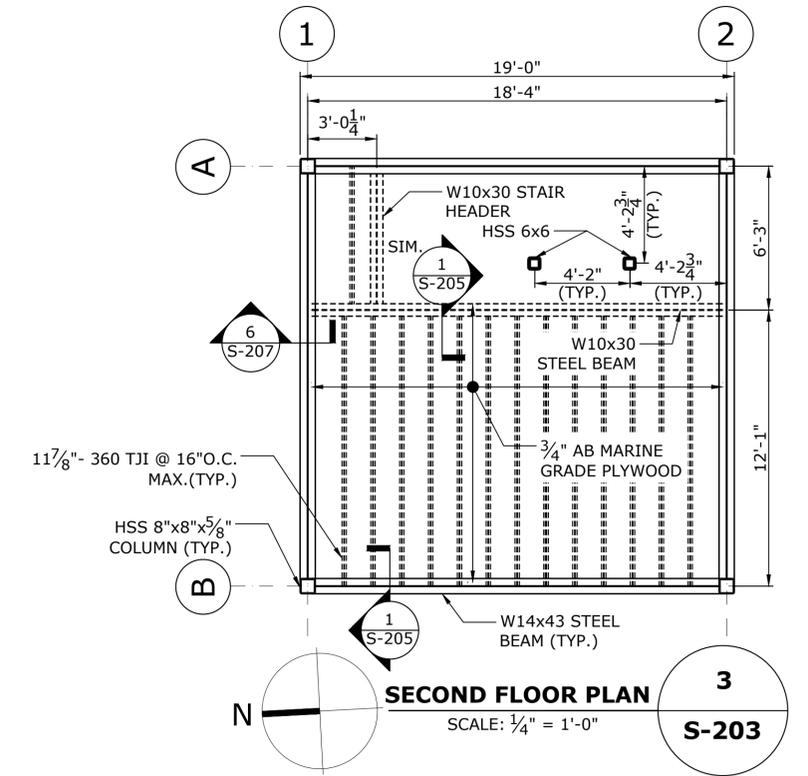
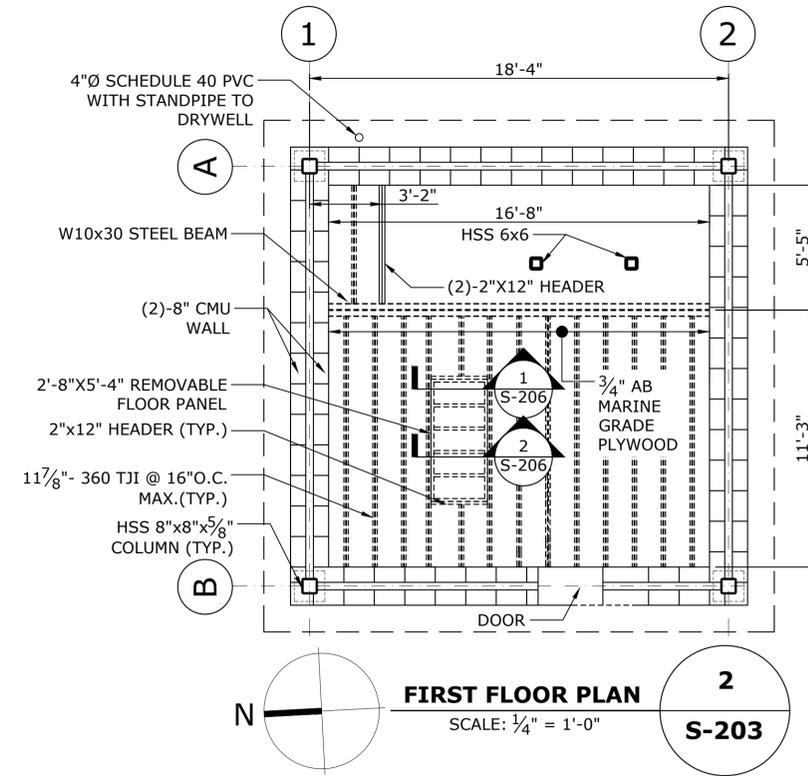
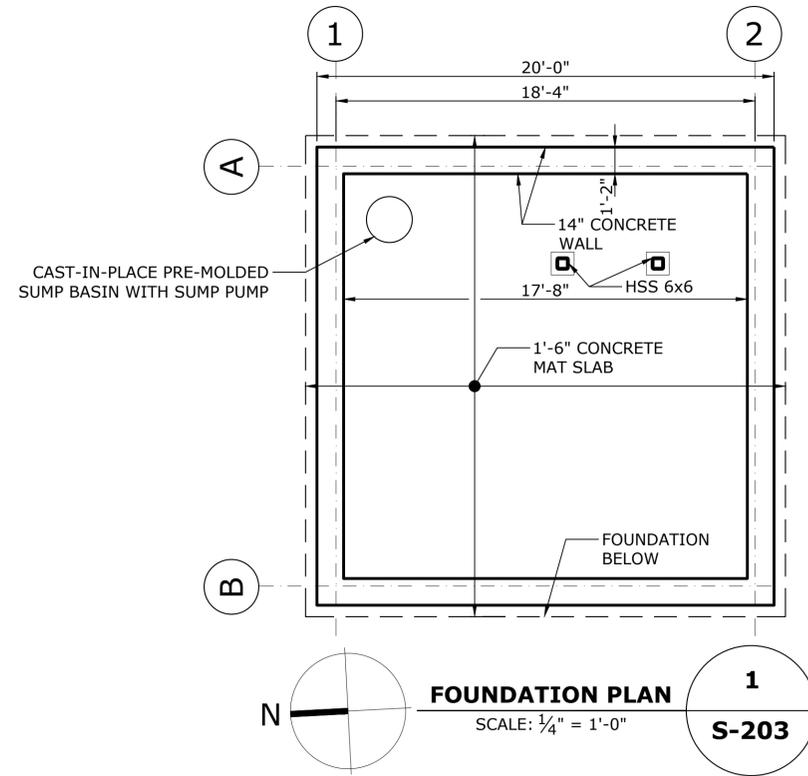
NORTH ELEVATION 1
SCALE: 1/4" = 1'-0" **S-202**



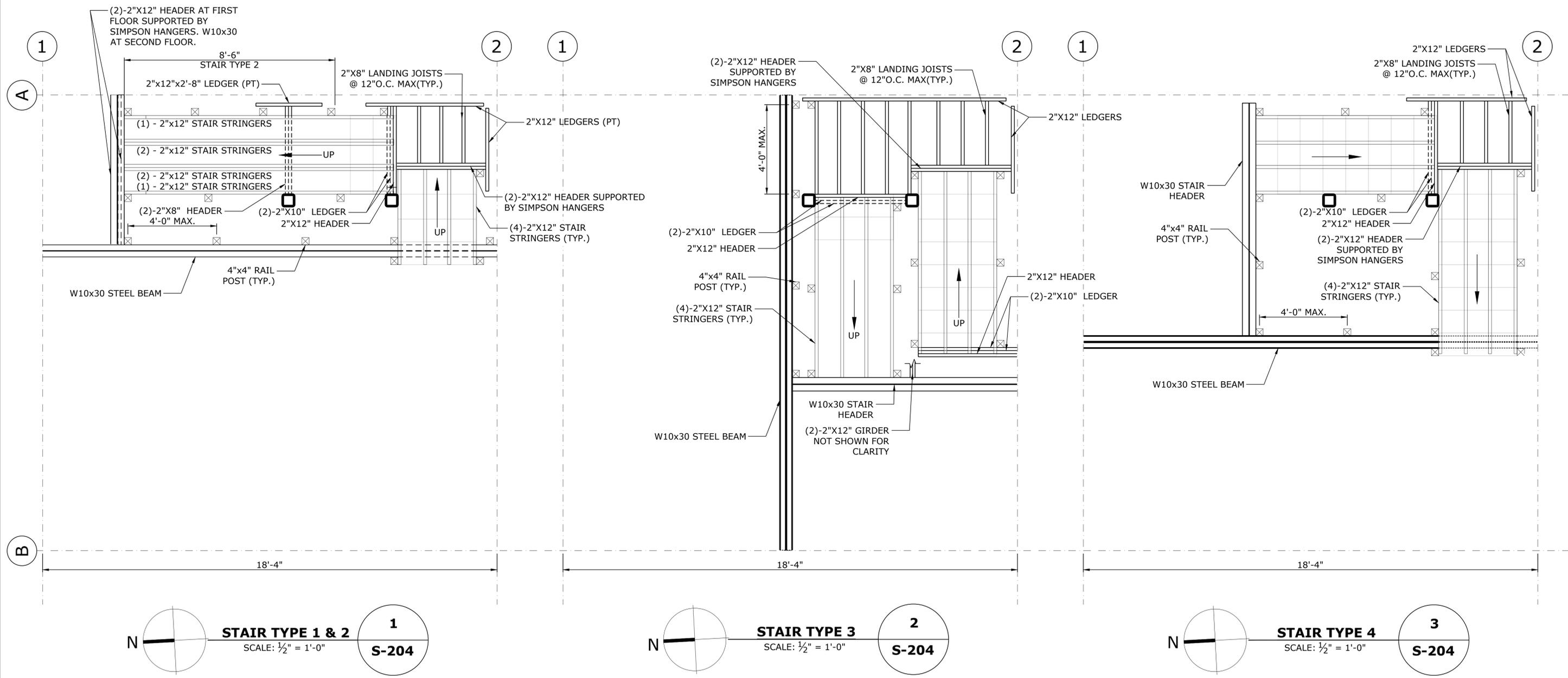
EAST & SOUTH ELEVATION 2
SCALE: 1/4" = 1'-0" **S-202**

NOTE:
WINCH AND PULLEY SYSTEM NOT SHOWN FOR CLARITY.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:53 PM	DESIGNER/DRAFTER: NB	CHECKED BY: JKD	SCALE AS NOTED	SIGNATURE/BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN: NORTH HAVEN	DRAWING TITLE: FRAMING ELEVATIONS	PROJECT NO. 20191094-00	DRAWING NO. S-202	SHEET NO.
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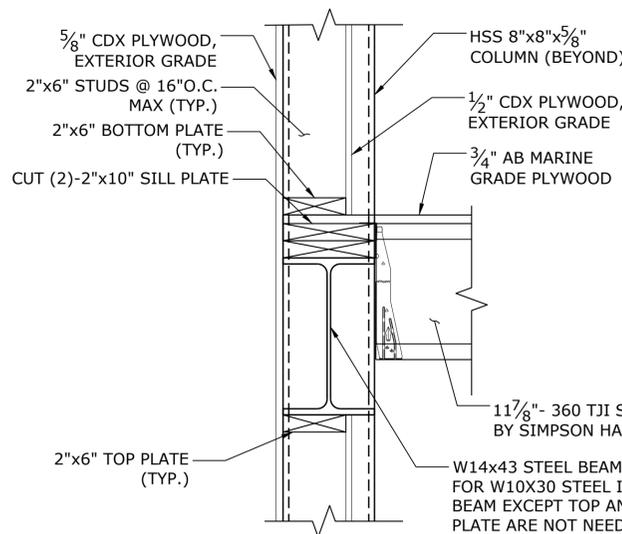


THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: NB CHECKED BY: JKD SCALE AS NOTED	SIGNATURE/ BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN: NORTH HAVEN FRAMING PLANS	PROJECT NO. 20191094-00 DRAWING NO. S-203 SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:53 PM	Filename: 20190717 NHFT - Framing Plan S203	

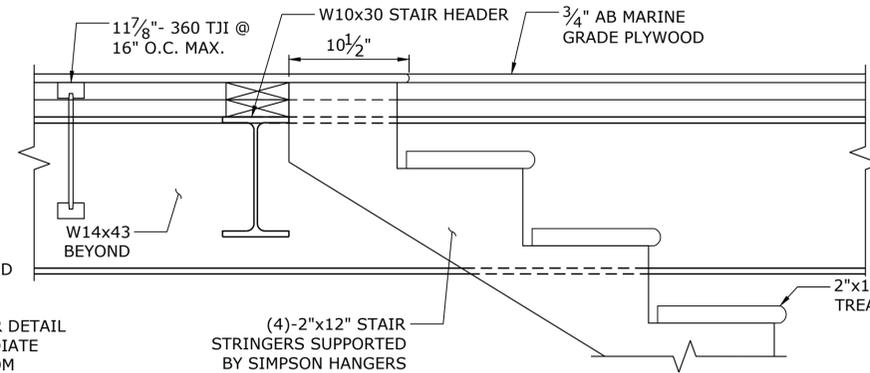


- NOTES:**
1. SEE DRAWING NO. S-104 FOR STAIR FLOOR PLANS.
 2. SEE DRAWING NO. S-207 FOR THE APPROPRIATE SIMPSON HANGERS.
 3. SEE DETAILS 10 TO 14 ON S-208 FOR WOOD MEMBER CONNECTION TO HSS 6x6.
 4. ALL WOOD STAIR AND RAIL COMPONENTS SHALL BE PRESSURE TREATED (PT), UNLESS NOTED OTHERWISE.

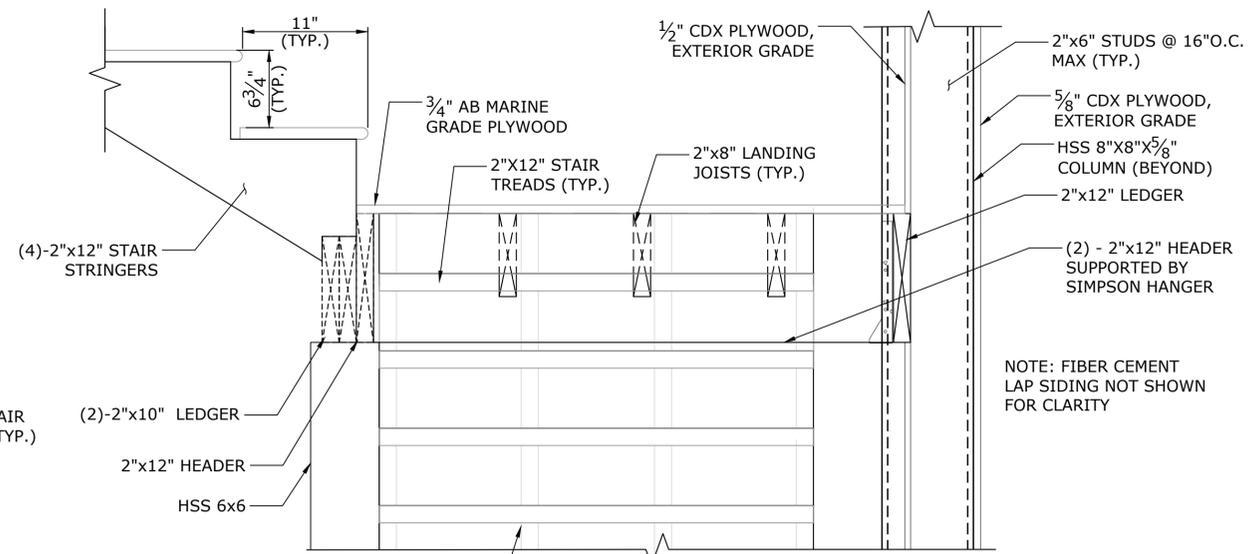
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DETAIL 1
SCALE: 1-1/2" = 1'-0"
S-205



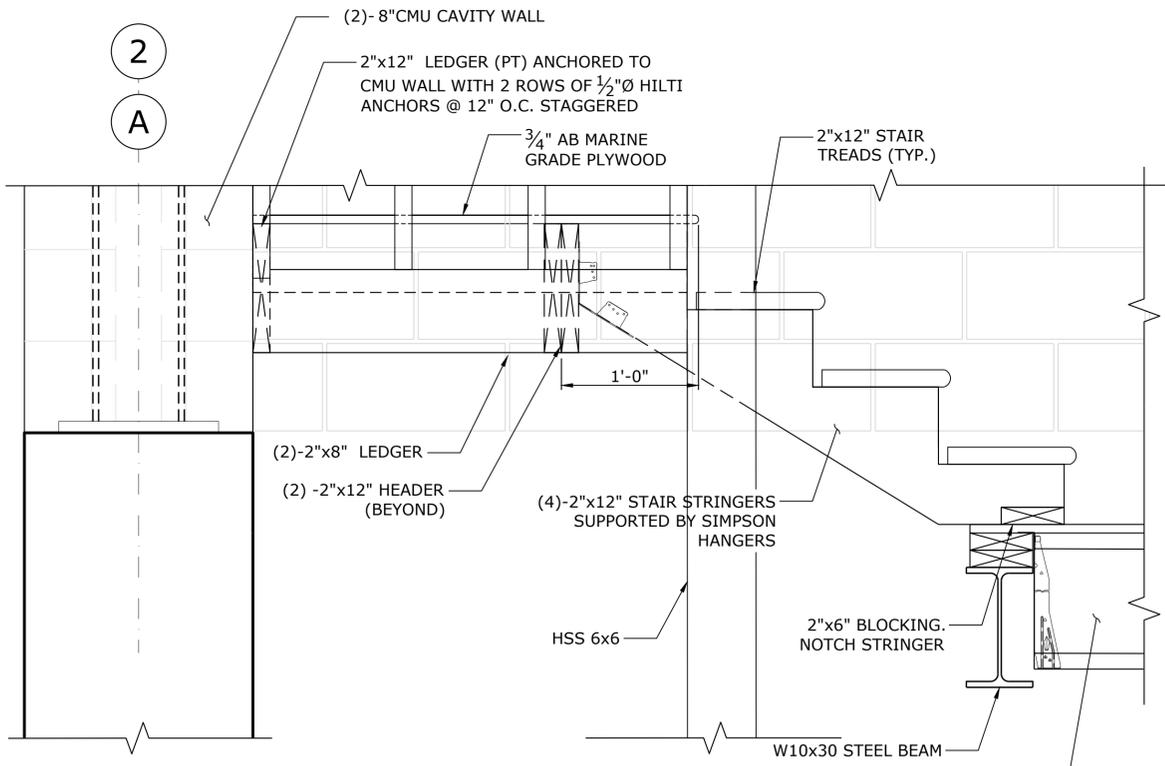
DETAIL 2
SCALE: 1-1/2" = 1'-0"
S-205



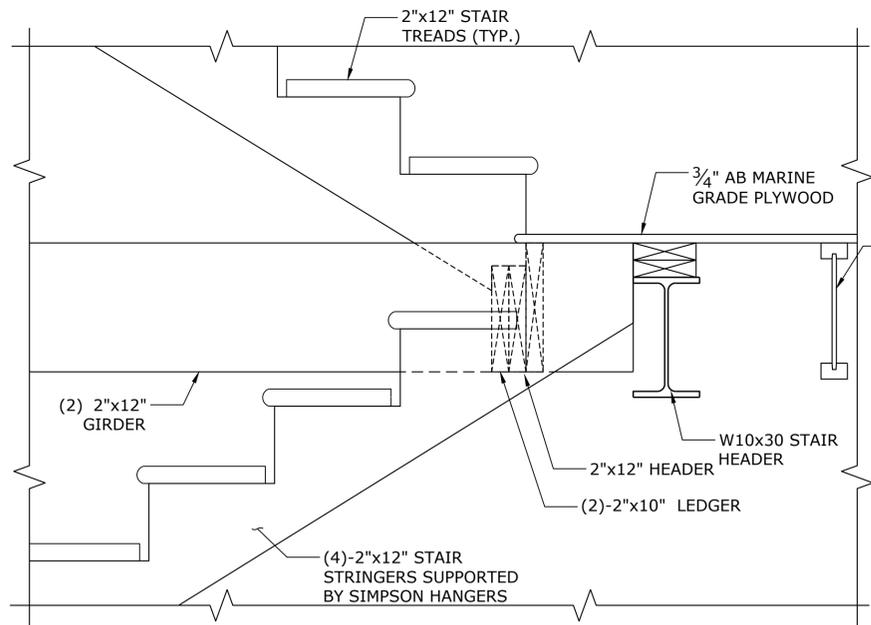
DETAIL 3
SCALE: 1-1/2" = 1'-0"
S-205

NOTES:

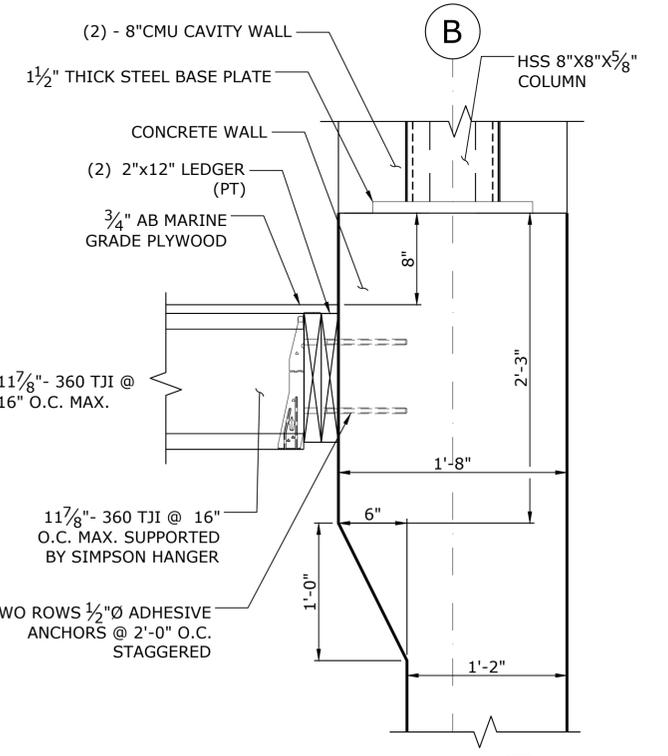
- WOOD FRAMING INCLUDING SILLS AND LEDGERS IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURED TREATED (PT).
- ALL WOOD FOR EXTERIOR WALLS INCLUDING BUT NOT LIMITED TO SILLS, PLATES, STUDS, INTERIOR AND EXTERIOR SHEATHING SHALL BE FIRE RETARDANT TREATED WOOD (FRTW).
- SEE DRAWING NO. S-207 FOR THE APPROPRIATE SIMPSON HANGERS.



DETAIL 4
SCALE: 1-1/2" = 1'-0"
S-205

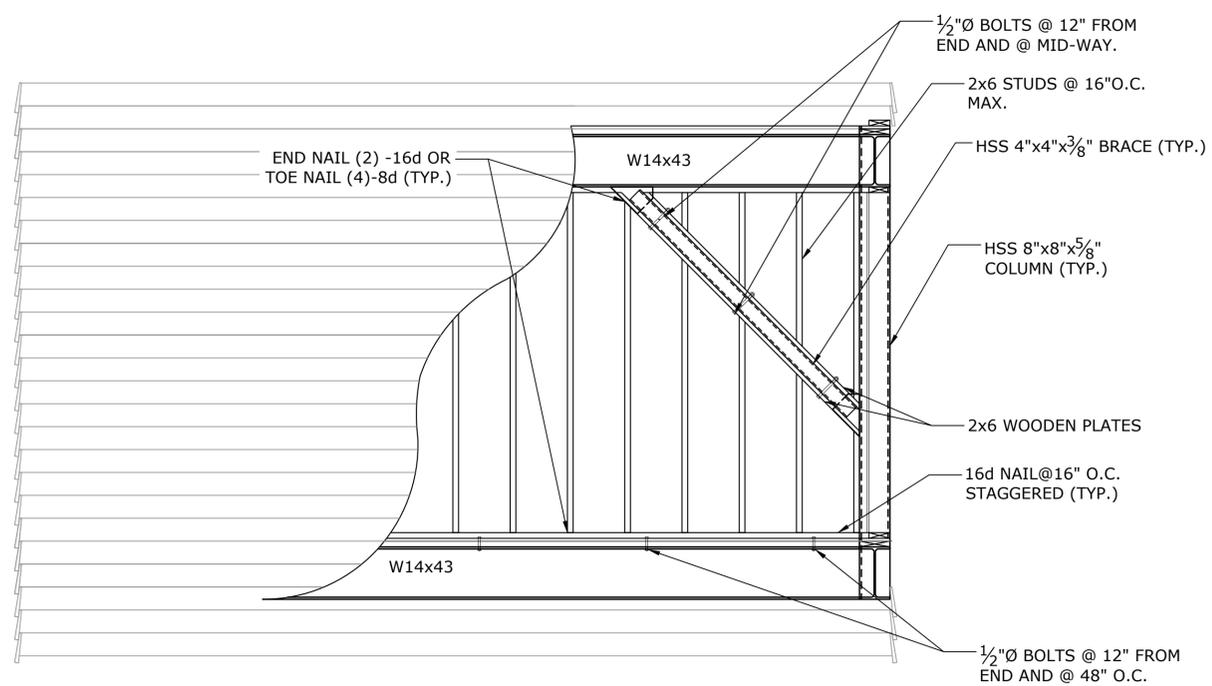


DETAIL 5
SCALE: 1-1/2" = 1'-0"
S-205

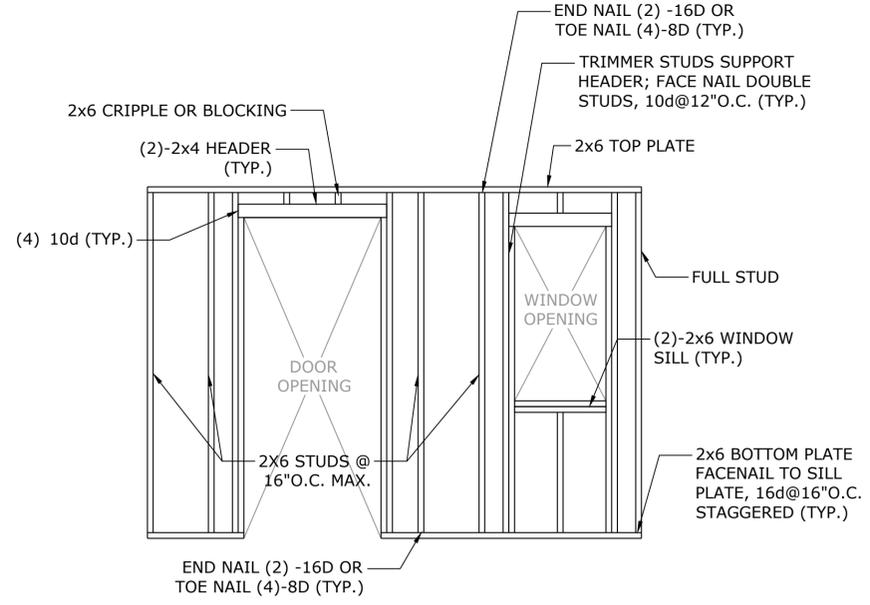


DETAIL 6
SCALE: 1-1/2" = 1'-0"
S-205

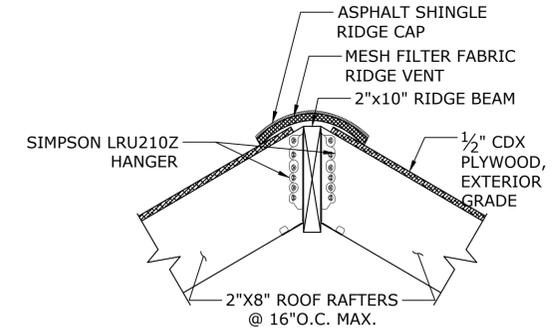
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:53 PM	DESIGNER/DRAFTER: NB	CHECKED BY: JKD	SCALE AS NOTED	SIGNATURE/BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN: NORTH HAVEN	DRAWING TITLE: DETAILS	PROJECT NO. 20191094-00	DRAWING NO. S-205	SHEET NO.
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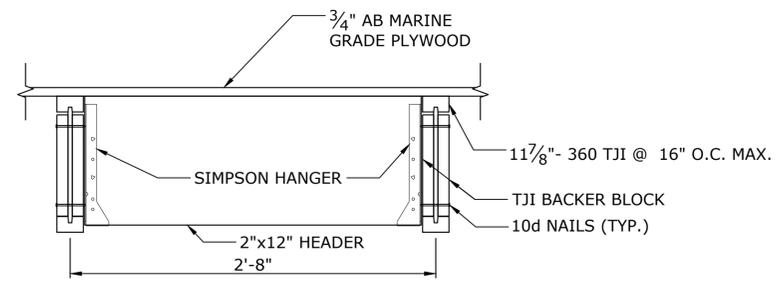
TYPICAL STUD WALL FRAMING AT BRACING LOCATION
SCALE: 3/8" = 1'-0"



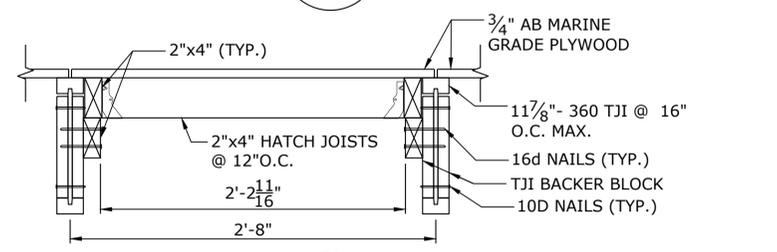
TYPICAL WOOD DOOR AND WINDOW FRAMING
SCALE: 3/8" = 1'-0"



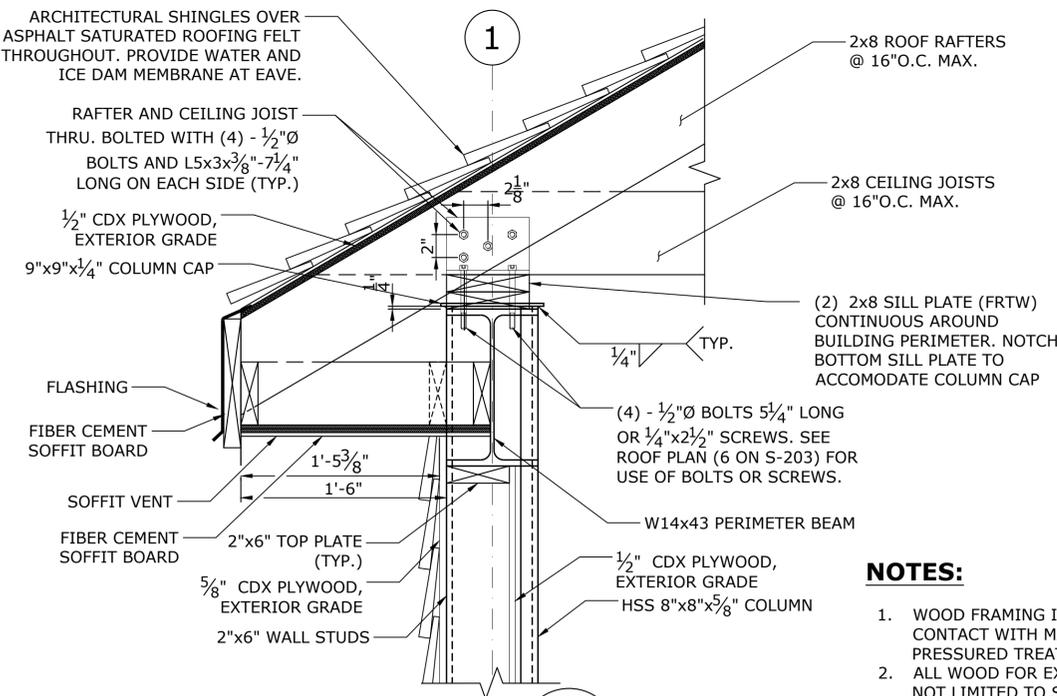
RIDGE DETAIL 5
SCALE: 1-1/2" = 1'-0" S-206



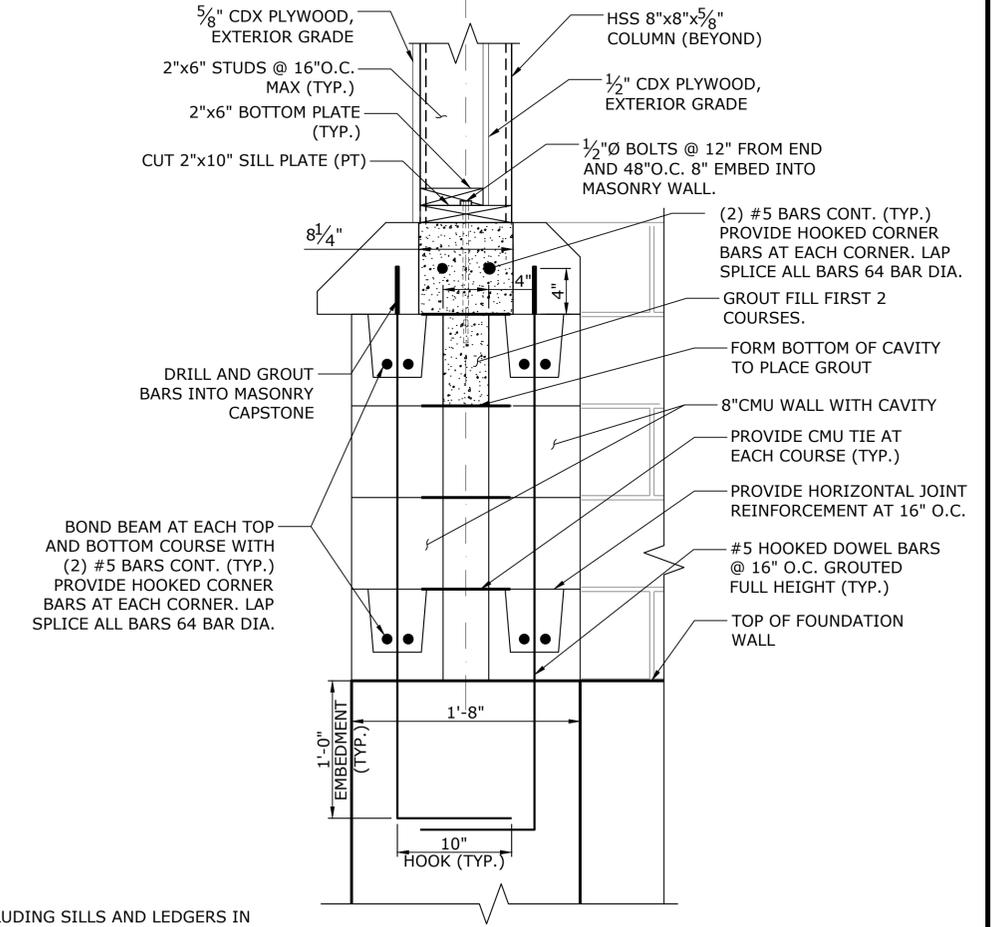
DETAIL 1
SCALE: 1-1/2" = 1'-0" S-206



DETAIL 2
SCALE: 1-1/2" = 1'-0" S-206



DETAIL 3
SCALE: 1-1/2" = 1'-0" S-206

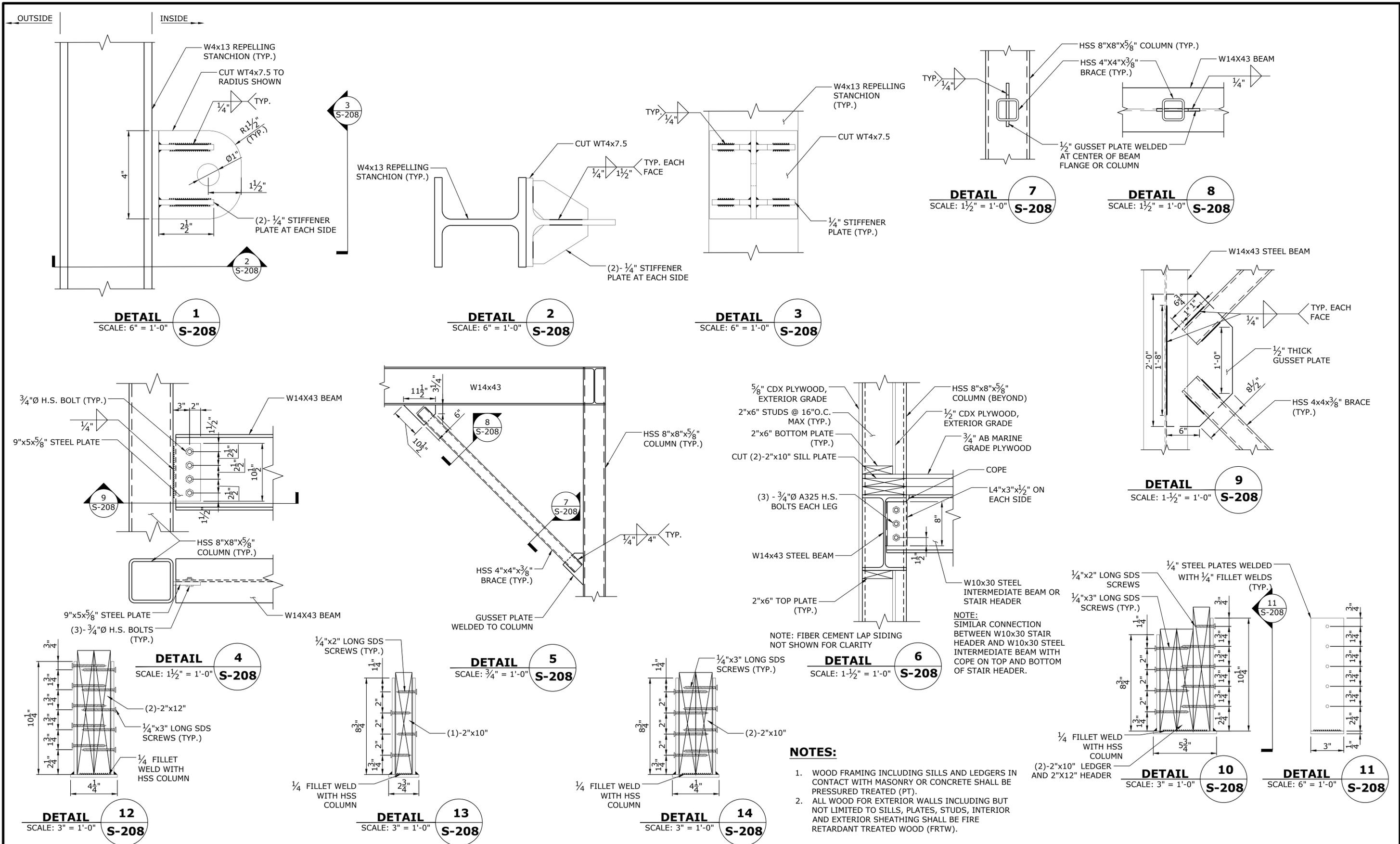


NOTE: FIBER CEMENT LAP SIDING NOT SHOWN FOR CLARITY

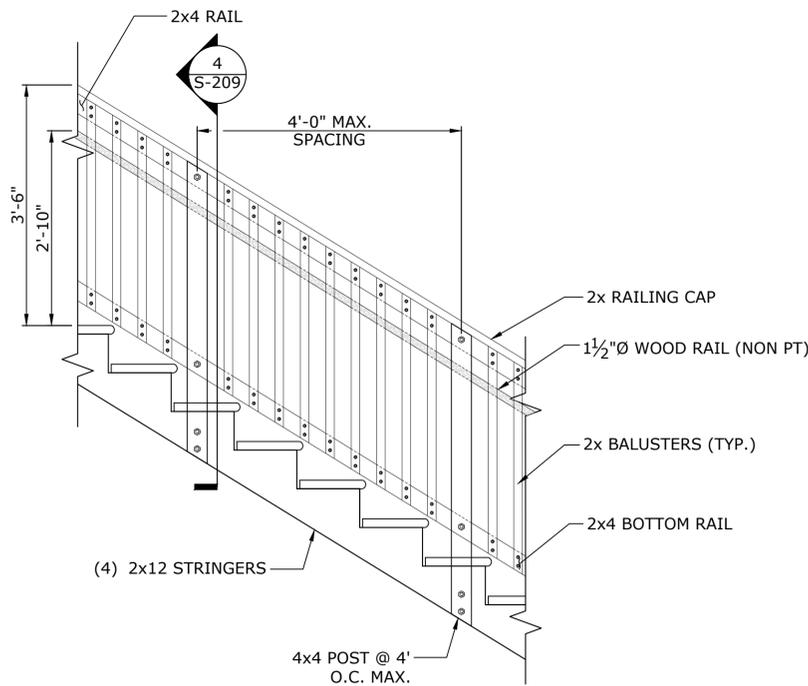
DETAIL 4
SCALE: 1-1/2" = 1'-0" S-206

- NOTES:**
- WOOD FRAMING INCLUDING SILLS AND LEDGERS IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURED TREATED (PT).
 - ALL WOOD FOR EXTERIOR WALLS INCLUDING BUT NOT LIMITED TO SILLS, PLATES, STUDS, INTERIOR AND EXTERIOR SHEATHING SHALL BE FIRE RETARDANT TREATED WOOD (FRTW).
 - SEE DRAWING NO. S-207 FOR THE APPROPRIATE SIMPSON HANGERS.

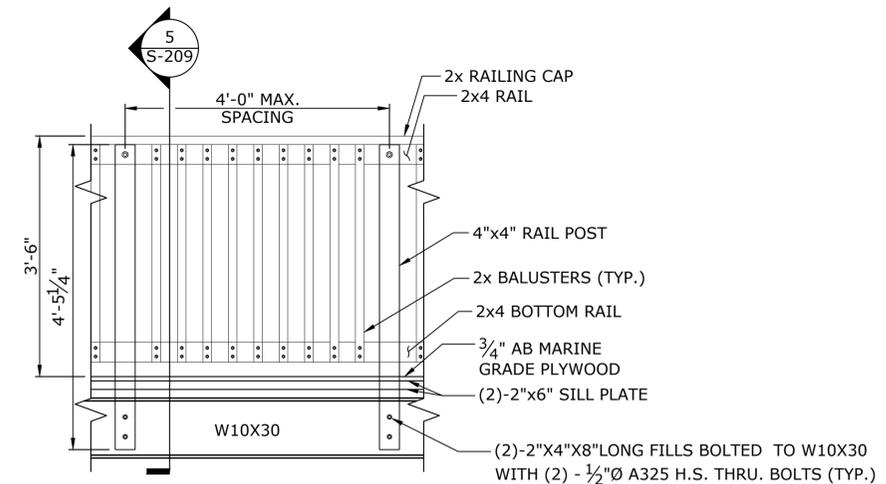
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:53 PM	DESIGNER/DRAFTER: NB	CHECKED BY: JKD	SCALE AS NOTED	SIGNATURE/BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN:	NORTH HAVEN	DRAWING TITLE: TYPICAL DETAILS	PROJECT NO. 20191094-00	DRAWING NO. S-206	SHEET NO.
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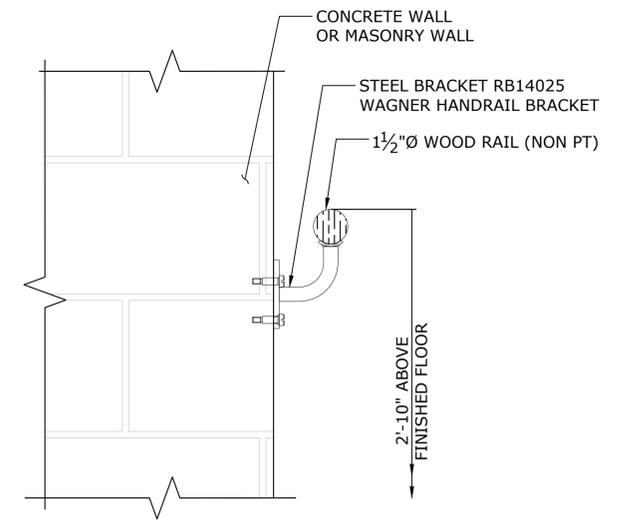
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: NB CHECKED BY: JKD SCALE AS NOTED	SIGNATURE/ BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN: NORTH HAVEN	PROJECT NO.: 20191094-00
Plotted Date: 5/20/2020 2:54 PM Filename: 20190717 NHFT - Steel Details S208		DRAWING TITLE: STEEL DETAILS		DRAWING NO.: S-208		SHEET NO.:



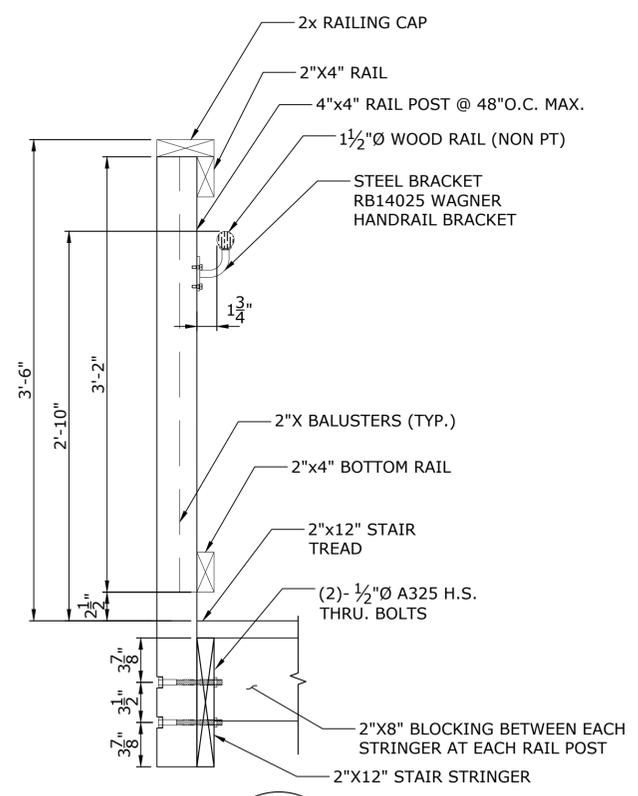
TYPICAL STRINGER GUARD RAIL ELEVATION
SCALE: 3/4" = 1'-0"
1
S-209



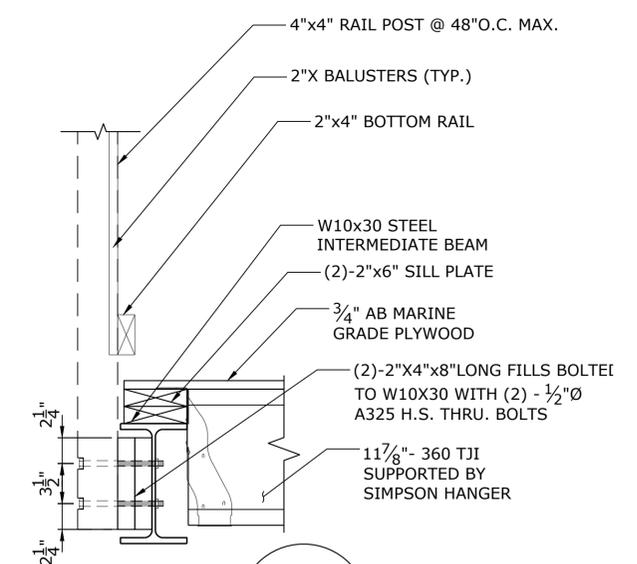
TYPICAL FLOOR GUARD RAIL ELEVATION
SCALE: 3/4" = 1'-0"
2
S-209



GUARD RAIL ELEVATION
SCALE: 3" = 1'-0"
3
S-209



DETAIL
SCALE: 1-1/2" = 1'-0"
4
S-209

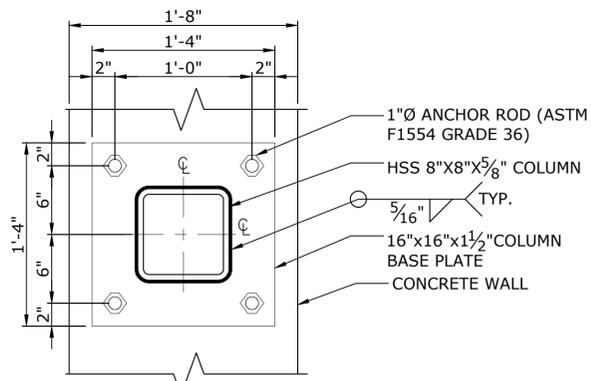


DETAIL
SCALE: 1-1/2" = 1'-0"
5
S-209

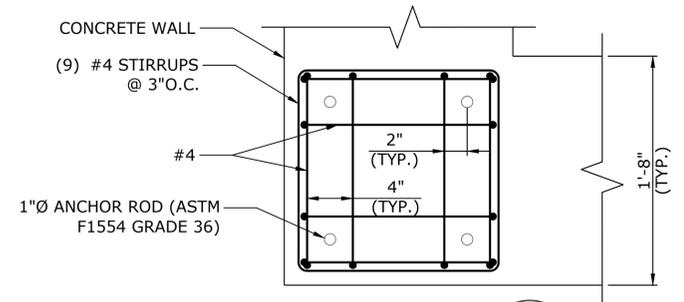
NOTES:

1. ALL WOOD STAIR AND RAIL COMPONENTS SHALL BE PRESSURE TREATED (PT), UNLESS NOTED OTHERWISE.

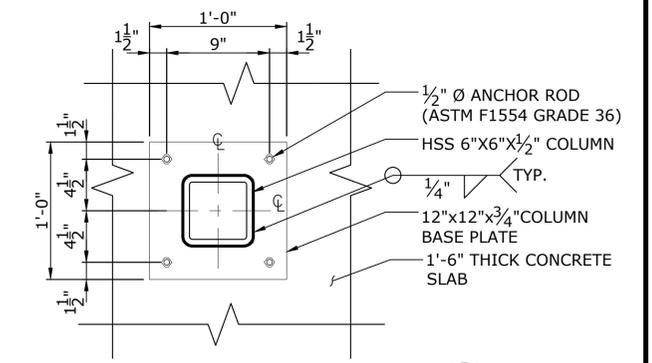
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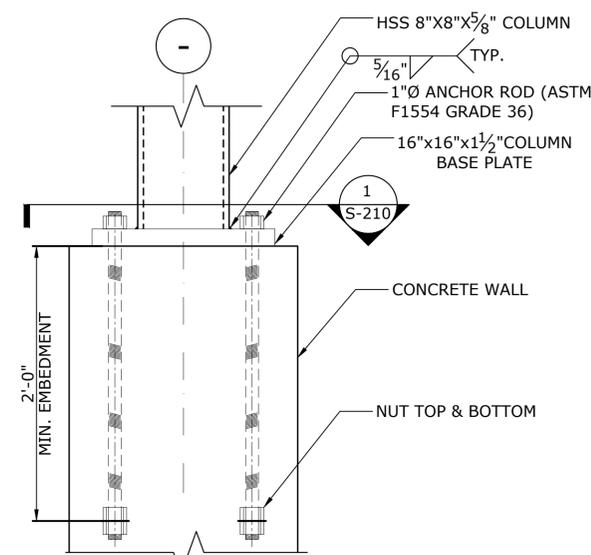
TYPICAL BASE PLATE PLAN DETAIL 1
SCALE: 1 1/2" = 1'-0"
S-210



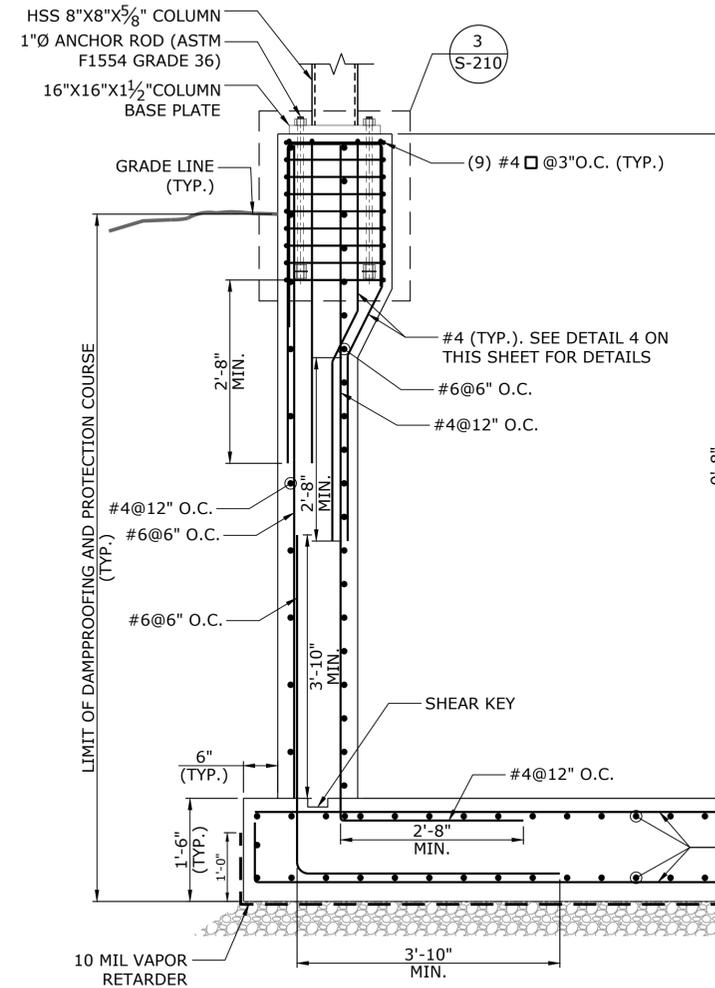
DETAIL 4
SCALE: 1 1/2" = 1'-0"
S-210



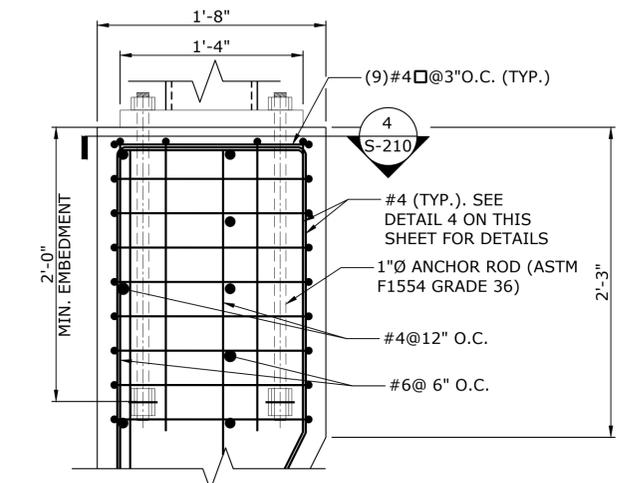
BASE PLATE @ HSS 6x6 COLUMN 7
SCALE: 1 1/2" = 1'-0"
S-210



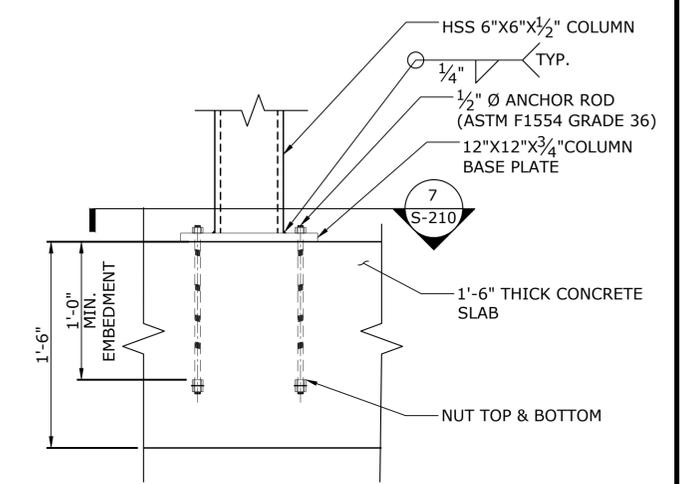
TYPICAL COLUMN BASE DETAIL 2
SCALE: 1 1/2" = 1'-0"
S-210



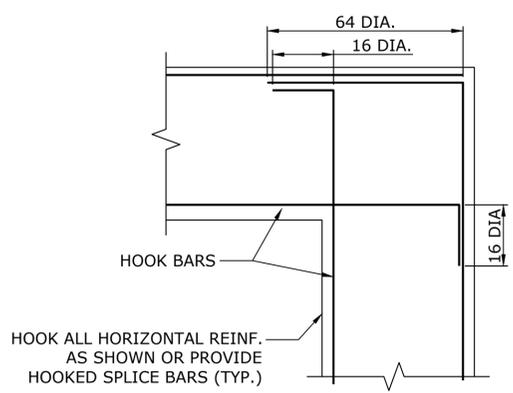
TYPICAL FOUNDATION SECTION 5
SCALE: 3/4" = 1'-0"
S-210



PIER REBAR SECTION 3
SCALE: 1 1/2" = 1'-0"
S-210

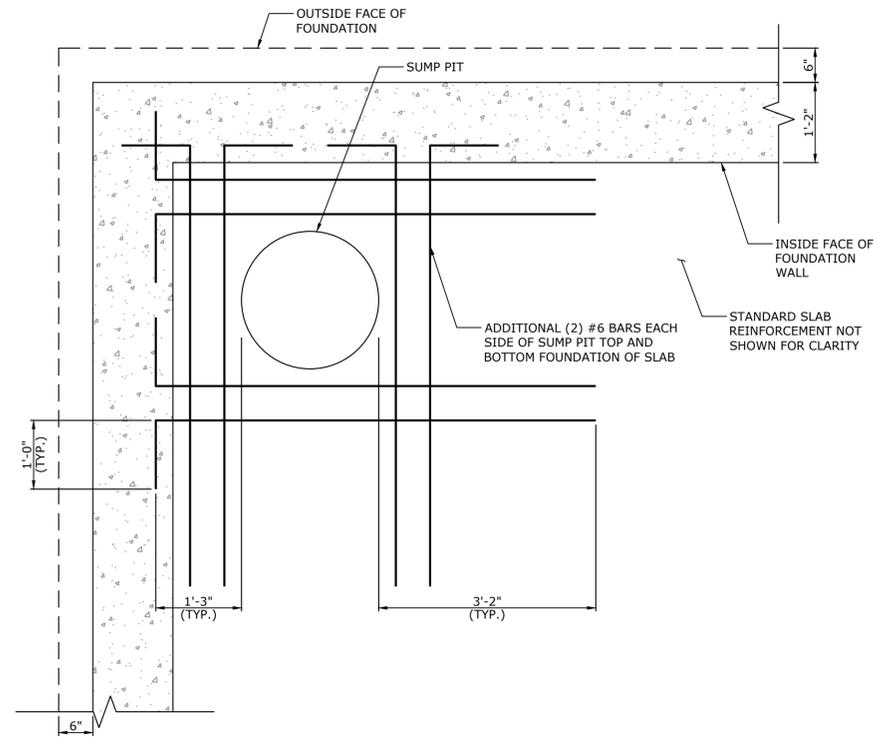


HSS 6x6 COLUMN BASE DETAIL 6
SCALE: 1 1/2" = 1'-0"
S-210



TYPICAL WALL CORNER DETAIL 8
SCALE: 1 1/2" = 1'-0"
S-210

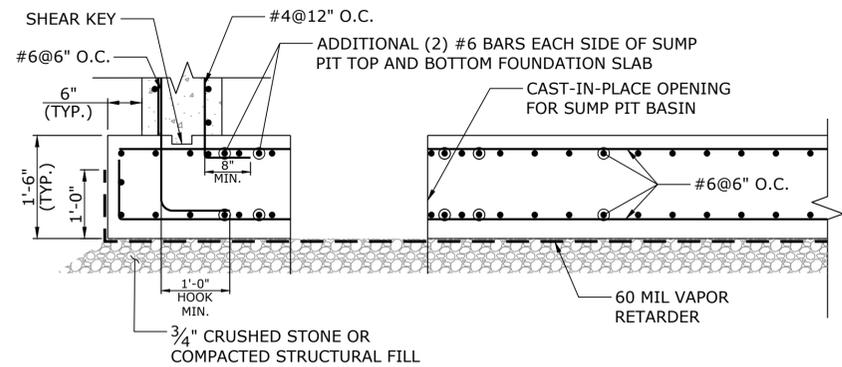
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:54 PM	DESIGNER/DRAFTER: NB	CHECKED BY: JKD	SCALE AS NOTED	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN: NORTH HAVEN	DRAWING TITLE: CONCRETE DETAILS 1	PROJECT NO. 20191094-00	DRAWING NO. S-210	SHEET NO.
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**ADDITIONAL REINFORCEMENT
AT SUMP PIT**

1
S-211

SCALE: $\frac{3}{4}$ " = 1'-0"



**TYPICAL FOUNDATION
SECTION AT SUMP PIT**

2
S-211

SCALE: $\frac{3}{4}$ " = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:54 PM

DESIGNER/DRAFTER:
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SCALE AS NOTED

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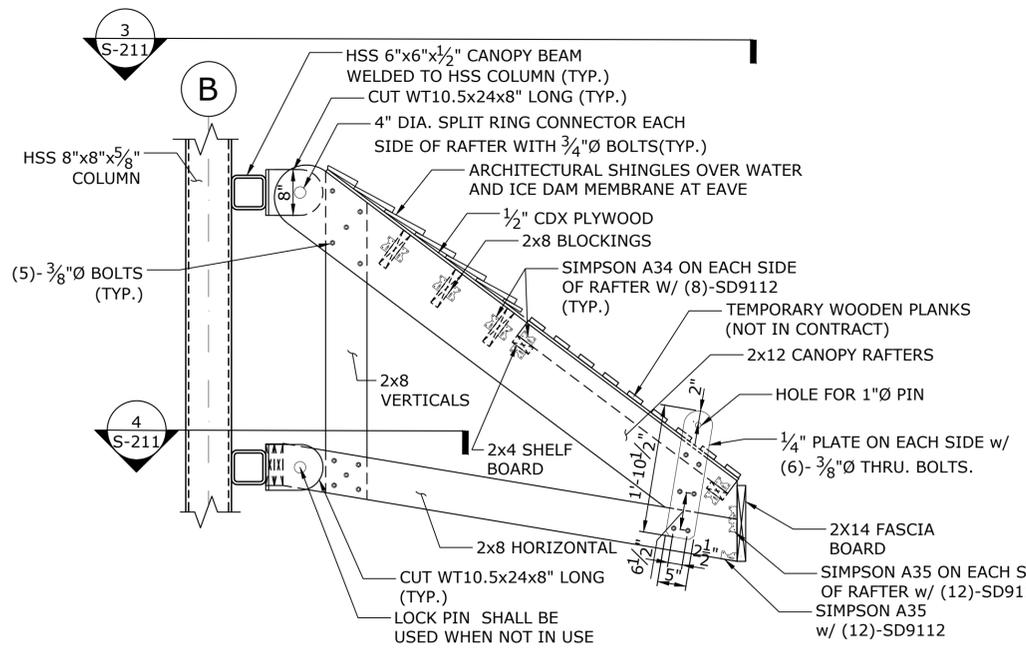
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SIGNATURE/
BLOCK:
GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

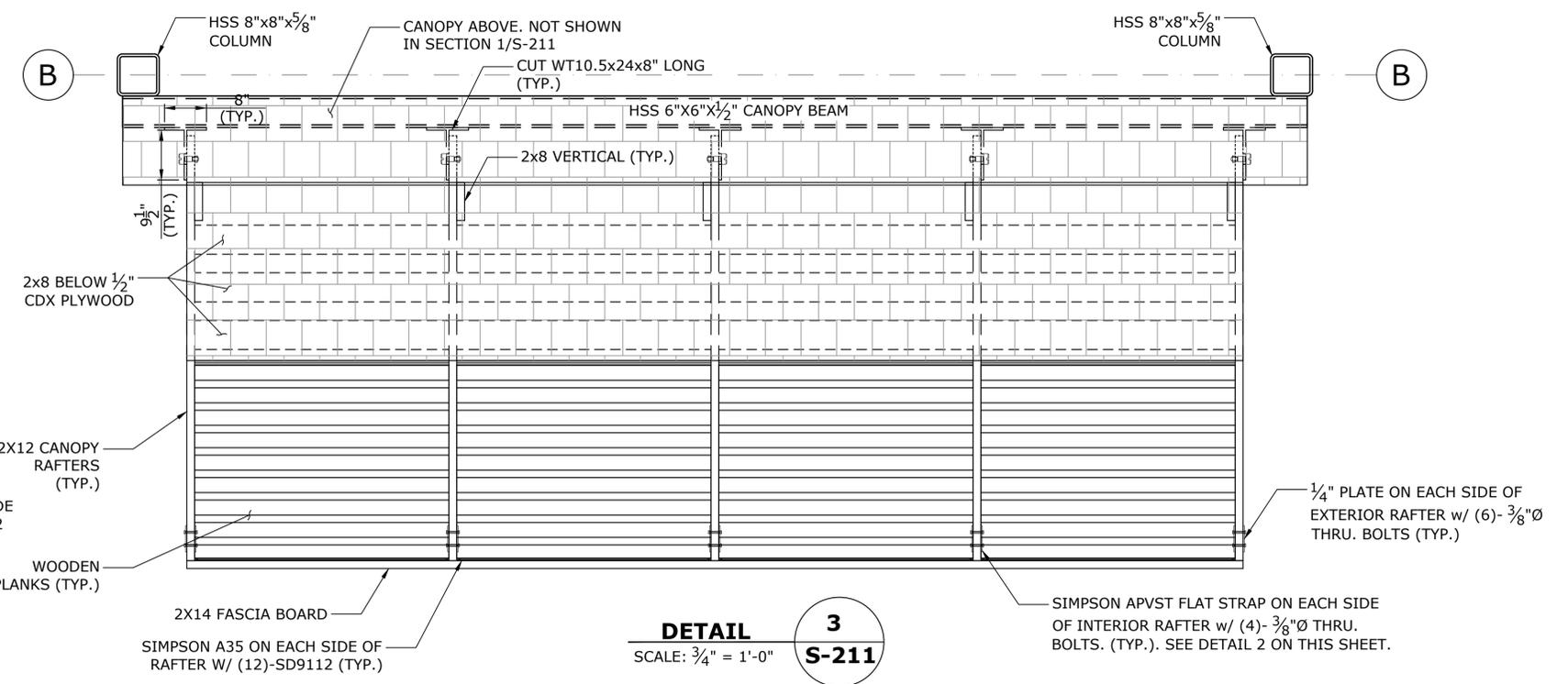
PROJECT TITLE:
**NORTH HAVEN
FIRE TOWER**

TOWN:
NORTH HAVEN
DRAWING TITLE:
**CONCRETE
DETAILS 2**

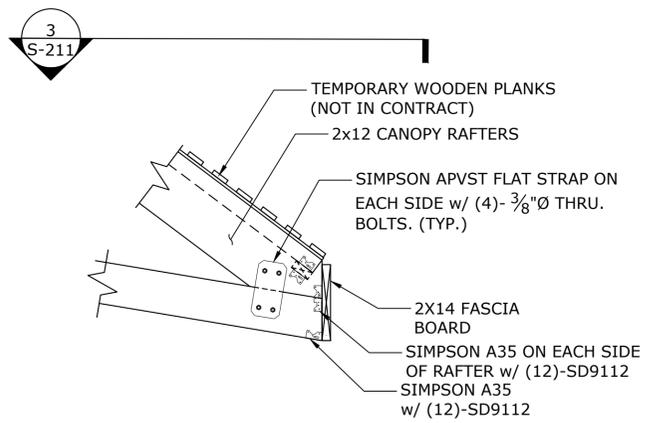
PROJECT NO.:
20191094-00
DRAWING NO.:
S-211
SHEET NO.



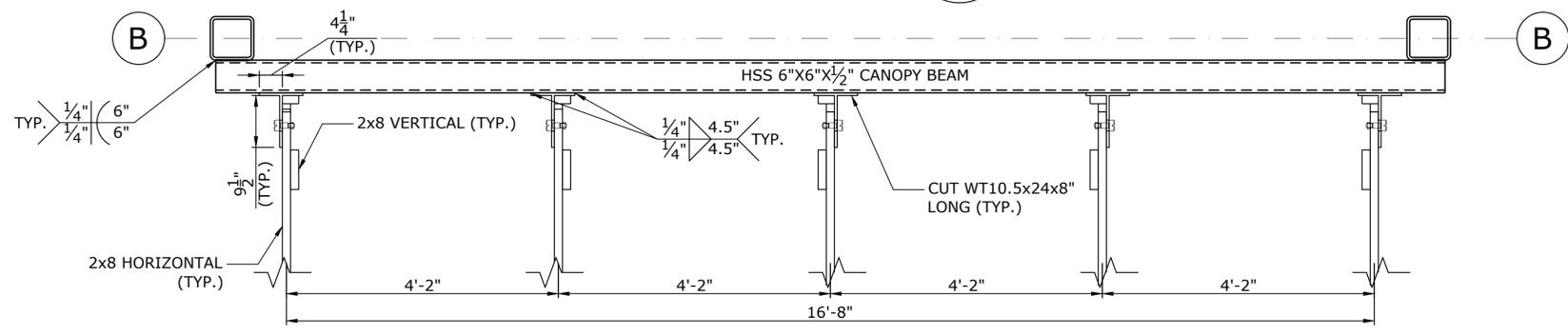
DETAIL 1
SCALE: 3/4" = 1'-0"
S-211



DETAIL 3
SCALE: 3/4" = 1'-0"
S-211



DETAIL 2
SCALE: 3/4" = 1'-0"
S-211

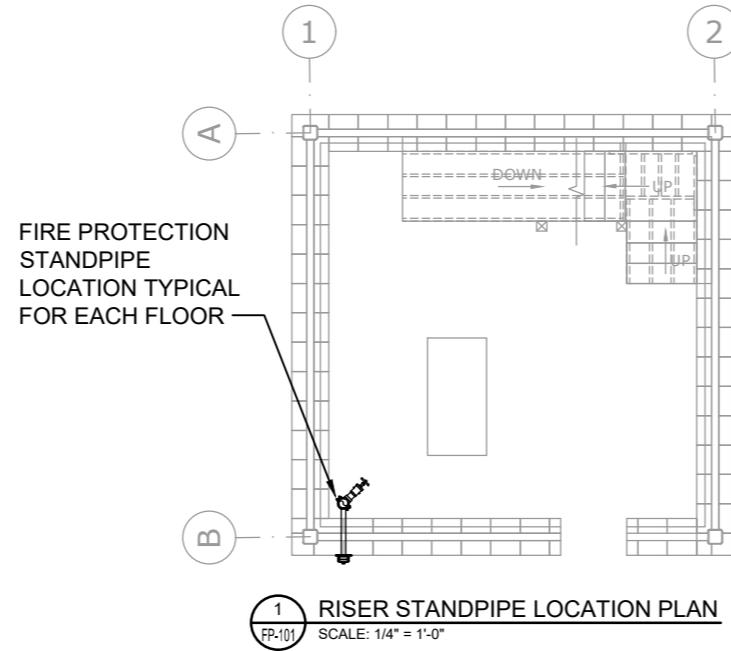


DETAIL 4
SCALE: 3/4" = 1'-0"
S-211

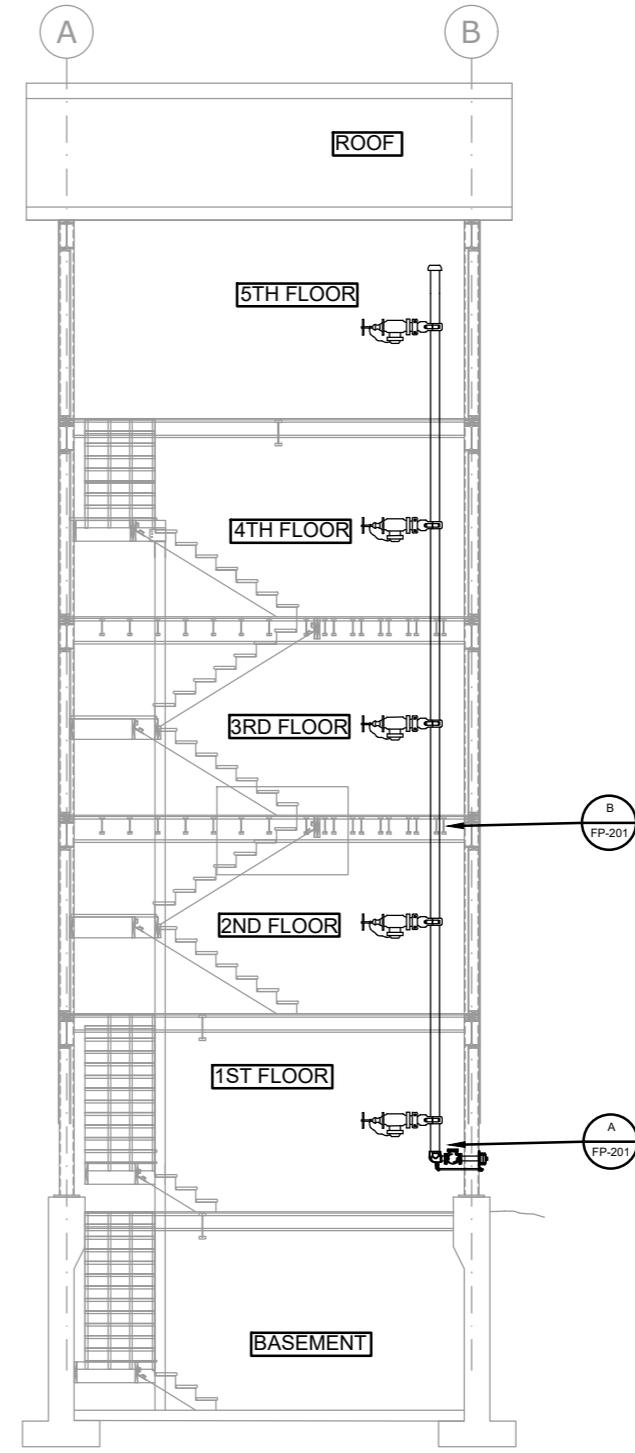
NOTES:

ALL WOOD FOR EXTERIOR CANOPY SHALL BE FIRE RETARDANT TREATED WOOD (FRTW).

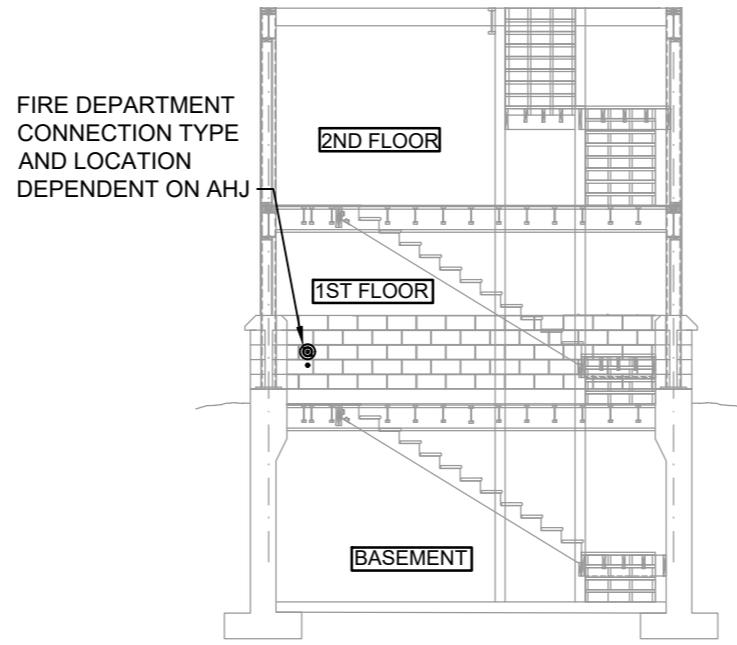
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/20/2020 2:54 PM	DESIGNER/DRAFTER: NB	CHECKED BY: JKD	SCALE AS NOTED	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: NORTH HAVEN FIRE TOWER	TOWN: NORTH HAVEN CANOPY DETAILS	PROJECT NO. 20191094-00	DRAWING NO. S-212	SHEET NO.
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1 RISER STANDPIPE LOCATION PLAN
 FP-101 SCALE: 1/4" = 1'-0"



2.1 FIRE PROTECTION STANDPIPE PLAN
 FP-101 SCALE: 1/4" = 1'-0"



2 FIRE PROTECTION STANDPIPE PLAN
 FP-101 SCALE: 1/4" = 1'-0"

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC AND ARE BASED ON AS-BUILT/RECORD DRAWINGS PROVIDED BY OWNER. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACCURACY OF THESE PLANS AND GATHER ADDITIONAL INFORMATION NECESSARY TO PRODUCE DETAILED SHOP DRAWINGS OF THE CHANGES AND MODIFICATIONS REQUIRED TO RENOVATE THE SPACE. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

RZ Design Associates, Inc.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **DR**
 CHECKED BY: **BZ**
 SCALE AS NOTED

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 Filename: FP-101

SIGNATURE/
 BLOCK: GM2 ASSOCIATES, INC.
 115 GLASTONBURY BLVD.
 GLASTONBURY, CT 06033

PROJECT TITLE: **NORTH HAVEN
 FIRE TOWER**

TOWN: **NORTH HAVEN**
 DRAWING TITLE: **FIRE PROTECTION
 STANDPIPE PLAN**

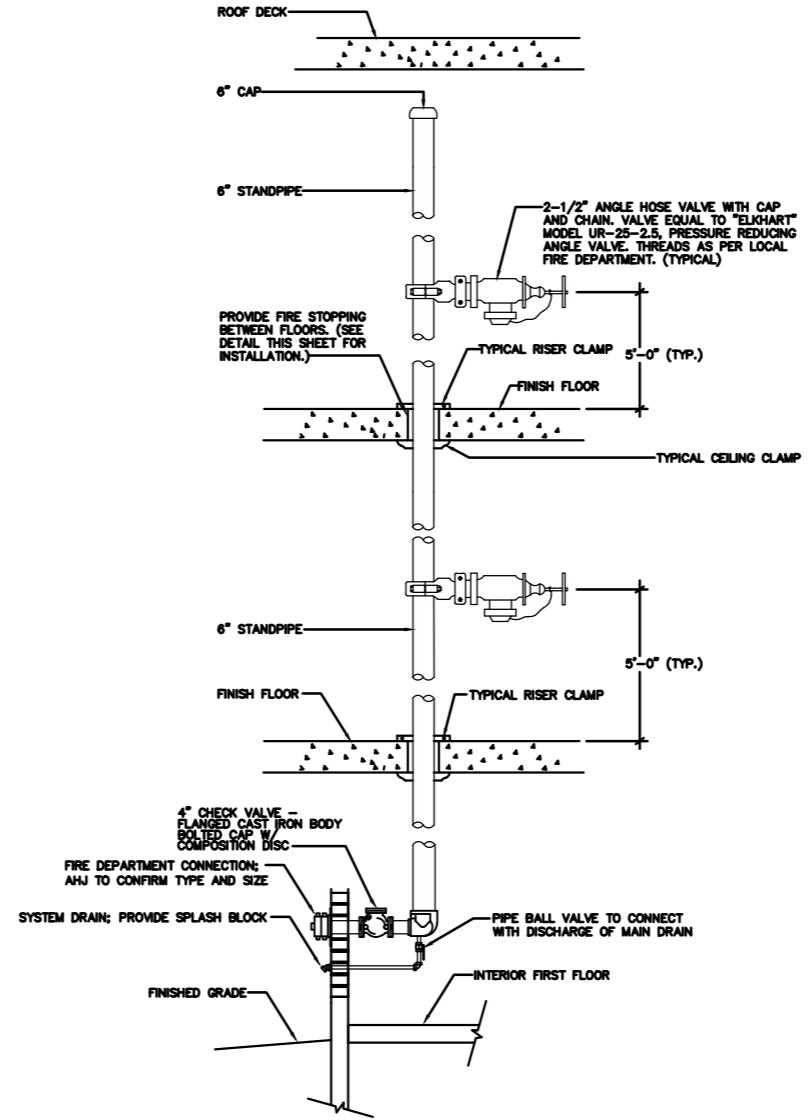
PROJECT NO.: **302-0014**
 DRAWING NO.: **FP-101**
 SHEET NO.: **-**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 9/23/2019 4:06 PM

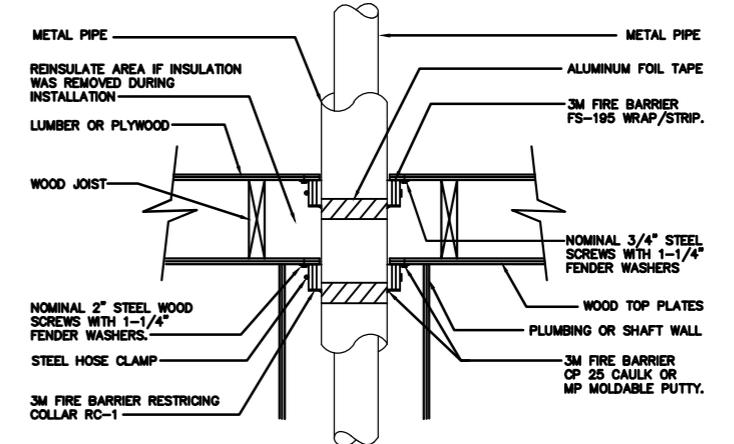
PRELIMINARY REVIEW

FIRE PROTECTION GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
- THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED FIRE PROTECTION SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
- EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. ACCESS DOORS FOR FIRE RATED WALLS AND CEILINGS SHALL BE FURNISHED WITH A MINIMUM 1-1/2 HOUR LABEL "B" UL LISTED RATING OR GREATER AS REQUIRED BY THE ASSEMBLY RATING. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
- WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL PIPING AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
- DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
- REFER TO THE LATEST ARCHITECTURAL PLANS FOR CEILING CONSTRUCTION, ELEVATIONS, SECTIONS, DETAILS, LOCATIONS OF SOFFITS, CEILING POCKETS, STEPPED CEILING, SKYLIGHT, ETC. PROVIDE ADDITIONAL PIPING AND SPRINKLER HEADS AS THE CONDITIONS WARRANT.
- INSTALL ALL PIPING WITH PROVISION FOR COMPLETE DRAINAGE. WET-PIPE SPRINKLER SYSTEM MAY BE INSTALLED LEVEL AND WITHOUT SLOPE.
- COORDINATE LOCATIONS OF FIRE DEPARTMENT CONNECTIONS AND FIRE PROTECTION SERVICE CONTROL VALVES, INSPECTOR TEST DRAINS VALVES WITH THE AUTHORITY HAVING JURISDICTION (FIRE MARSHAL) PRIOR TO INSTALLATION. INSTALL INSPECTOR TEST VALVES AT MAXIMUM 7'-0" ABOVE FINISHED FLOOR OR AS DIRECTED BY THE AHJ.
- ALL EQUIPMENT MAIN DRAINS AND INSPECTOR TEST DRAINS SHALL BE PIPED TO THE EXTERIOR OF THE BUILDING. PROVIDE CONCRETE SPLASH BLOCKS AT EACH DRAIN LOCATION TO AVOID SOIL EROSION OR OTHER DAMAGE.
- COORDINATE EXACT LOCATION OF FIRE PROTECTION SERVICE ENTERING THE BUILDING WITH THE SITE CONTRACTOR AND UTILITY DRAWINGS PRIOR TO INSTALLATION. COORDINATE ALL FOUNDATION WALL PENETRATIONS AND INVERT ELEVATIONS WITH THE GENERAL CONTRACTOR AND/OR CONSTRUCTION MANAGER BEFORE COMMENCING WORK.
- ALL FIRE PROTECTION PIPING SHALL HAVE SEISMIC BRACING IN ACCORDANCE WITH THE STATE BUILDING CODE, NFPA 13 AND THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS AND CALCULATIONS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.



A STANDPIPE RISER DETAIL
FP-201 SCALE: NONE



B PIPE FLOOR PENETRATION DETAIL
WOOD FLOOR/CEILING PENETRATION
METAL PIPE WITH INSULATION
N.T.S.

- NOTE: 1. FIRE STOPPING TO CONFORM TO UL SYSTEM #167 ASSEMBLY
2. NUMBER OF WRAPS OF 3M FIRE BARRIER FS-195 WRAP/STRIP AS PER UL LISTING.

B PIPE FLOOR PENETRATION DETAIL
FP-201 SCALE: NONE

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DESIGNER/DRAFTER:
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BZ
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: FP-201

SIGNATURE/
BLOCK:
GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:
**NORTH HAVEN
FIRE TOWER**

TOWN:
NORTH HAVEN
DRAWING TITLE:
**FIRE PROTECTION DETAILS
AND SPECIFICATIONS**

PROJECT NO.:
302-0014
DRAWING NO.:
FP-201
SHEET NO.:
-

PRELIMINARY REVIEW