TOWN/VILLAGE OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION

40 COLUMBUS AVENUE
MOUNT KISCO NY 10549

CONSTRUCTION DOCUMENTS

ISSUE FOR BID: 3 JUNE 2022

BAR DOWN STUDIO

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257 Ushers Road p. 518.406.5506
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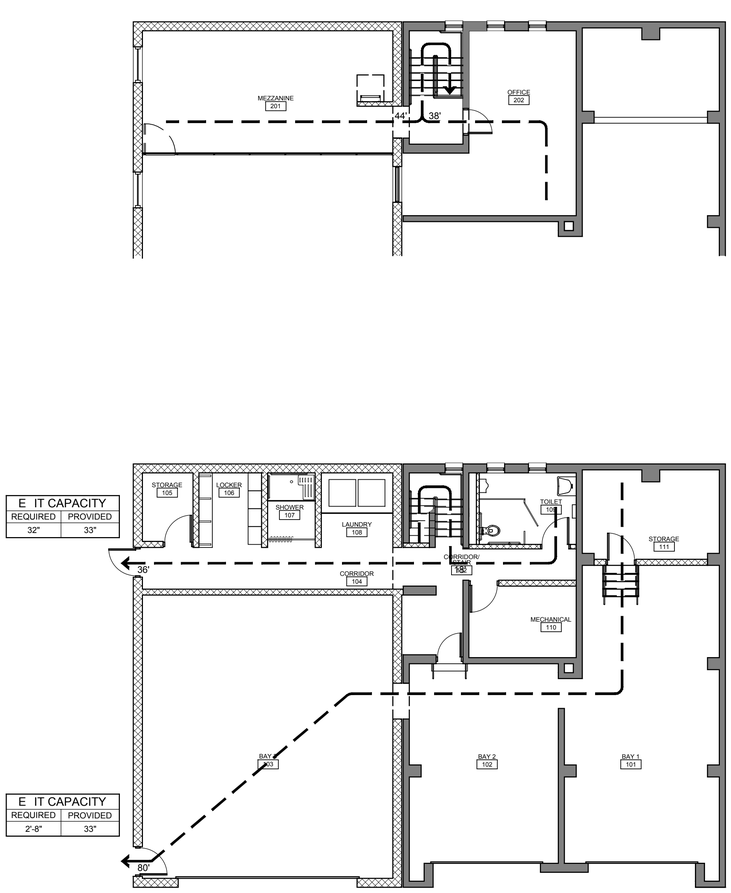
THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, AND THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE

VICINITY MAP NTS



3 EGRESS PLAN

SCALE: N.T.S.

CONSTRUCTION TYPE	
Existing	IIIB
Addition	IIIB

OCCUPANCY CLASSIFICATION	
Office	B (Business)
Bays	S-1 (Storage, moderate hazard)

AREA BUILDING AREA CALC. $A_a = [A_t + (NS \times I_f)]$, FRONTAGE FACTOR $I_f = [F/P - 0.25]W/30$

	ALLOWED (sf)	PROVIDED (sf)
Office	33250	1150
Bays (Storage)	30625	2370

BUILDING CAPACITY per BCNYS Table 1004.5

	Occupant Load Factor	Occupancy
Accessory storage areas	300 gross	8
Business areas	150 gross	2

PLUMBING FIXTURES

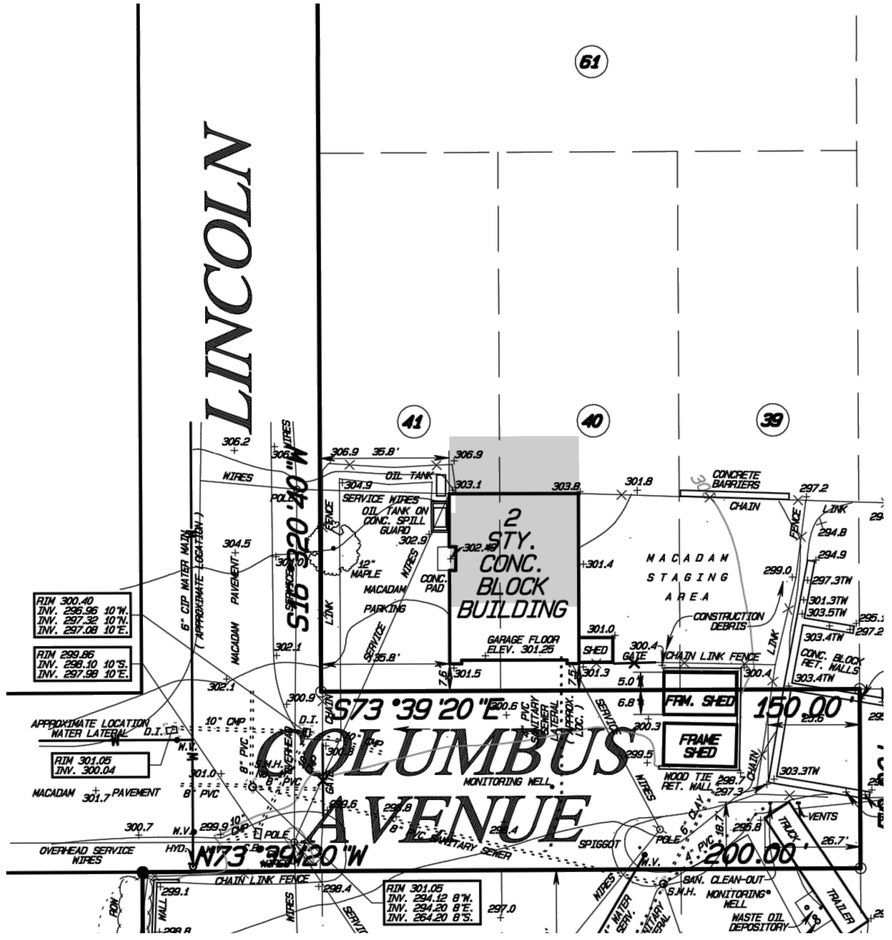
	REQUIRED	PROVIDED
Business		
1 WC per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1	1
1 lavatory per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1	1
1 drinking fountain per 100 (not required for occupancy less than 15 per 410.2 Small occupancies)	0	0
1 service sink	1	1
Bays (Storage)		
1 WC per 100	1	1
1 lavatory per 100	1	1
1 drinking fountain per 100 (not required for occupancy less than 15 per 410.2 Small occupancies)	0	0
1 service sink	1	1

EXIT ACCESS TRAVEL DISTANCE per Table 1017.2

Occupancy	Distance without/Sprinkler System (feet)
B (Business)	200
S-1 (Storage, moderate hazard)	200

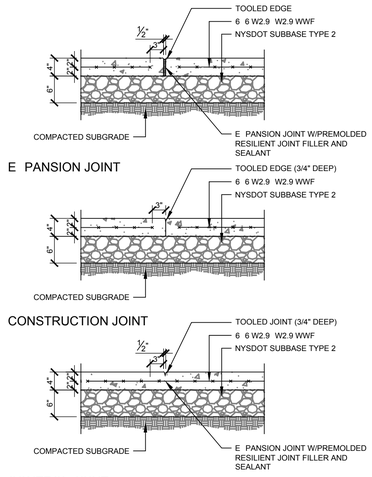
4 CODE TABLE

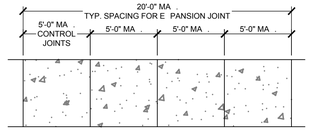
SCALE: N.T.S.



1 SITE SURVEY

SCALE: 1" = 20'





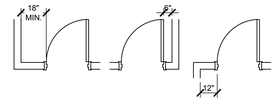
2 SIDEWALK DETAILS

SCALE: N.T.S.

PLAN GRAPHICS LEGEND

- E ISTING CONSTRUCTION TO REMAIN
- REMOVE E ISTING PARTITION
- REMOVE E ISTING MASONRY PARTITION
- NEW CONCRETE MASONRY WALL
- NEW BRICK VENEER
- NEW METAL STUD WALL
- WALL TYPE
- E ISTING DOOR/FRAME TO REMAIN
- E ISTING DOOR/FRAME TO BE REMOVED
- NEW DOOR/FRAME WITH TAG
- FE-C 10# — WEIGHT; ABC — TYPE
- FIRE E TINGUISHER CABINET
- S GL — STOREFRONT/GLAZING TYPE
- SUMPED ROOF DRAIN

FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW UNO. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



DEMOLITION KEY NOTES

01 REMOVE WINDOW AND SILL
02 REMOVE OVERHEAD DOOR, TRACK, MOTOR, AND ASSOCIATED COMPONENTS
03 REMOVE BUMPER
04 REMOVE SHOWER BASE, CURB, AND WALL TILE
05 REMOVE CONCRETE LANDING AND FOOTING
06 REMOVE CONCRETE BASE
07 REMOVE COPING FLASHING AND BLOCKING
08 REMOVE ROOF SYSTEM
09 REMOVE EQUIPMENT PEDESTAL AND BASE
10 REMOVE FLOOR FINISH
11 REMOVE CONCRETE STEPS

CONSTRUCTION KEY NOTES

01 4" THICK CONCRETE PAD FOR WASHER/DRYER (FURNISHED BY OWNER)
02 PAINTED STEEL RAILING
03 CONCRETE SLAB INFILL
04 1-1/2" THICK HARDWOOD BENCH WITH RAKKS SURFACE MOUNT EH-1212 BRACKETS (BLACK POWDER COAT FINISH)
05 LOCKERS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
06 COUNTER FLASHING AT E ISTING CHIMNEY
07 ROOF VENT
08 SINGLE-PLY ROOF SYSTEM
09 ALUMINUM LADDER

EQUIPMENT TAG

01 E PANSION JOINT LOCATION - PROVIDE AT FLOOR, WALLS, AND CEILING AS SPECIFIED
02 STORAGE SHELVING WITH DRAWERS BASIS-OF-DESIGN EMPIRE TECH SOLUTIONS, INC. 'ROUSSEAU SPIDER SHELVING' (ID: RM-C666-504E)
02A STORAGE SHELVING WITH DRAWERS BASIS-OF-DESIGN EMPIRE TECH SOLUTIONS, INC. 'ROUSSEAU SPIDER SHELVING' (ID: RM-6E5F-1856)
03 STORAGE SHELVING BASIS-OF-DESIGN EMPIRE TECH SOLUTIONS, INC. 'ROUSSEAU SPIDER SHELVING' (ID: RM-2D16-D458)
03A STORAGE SHELVING BASIS-OF-DESIGN EMPIRE TECH SOLUTIONS, INC. 'ROUSSEAU SPIDER SHELVING' (ID: RM-EA2F-C6E2)
04 WORKBENCH W/WOOD TOP BASIS-OF-DESIGN EMPIRE TECH SOLUTIONS, INC. 'ROUSSEAU WSA2906'
RD-1 ROOF DRAIN RD-1: BASIS-OF-DESIGN FROET '100C-C-E-ER2-R'
RD-2 ROOF DRAIN RD-2: BASIS-OF-DESIGN ZURN 'Z100-NH-ZC-C-E-EA-R-SC'

TOILET ROOM TAGS

GB GRAB BAR LENGTH
LV- LAVATORY
UR- URINAL
WC- WATER CLOSET
MIR MIRROR
TWD PAPER TOWEL/WASTE DISPENSER
TD TOILET TISSUE DISPENSER
SD SOAP DISPENSER
SHS SHOWER SEAT
SHR SHOWER ROD/CURTAIN
SHB ROLL-IN SHOWER BASE
TP TOILET PARTITION
CH COAT HOOK

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

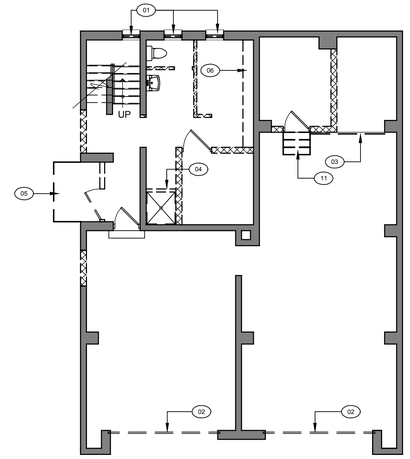
No	Date	Revison	By
4			
3			
2			
1			

Drawn By:	dh
Checked By:	dh
BDS Proj. #:	21-01
Date:	June 3, 2022

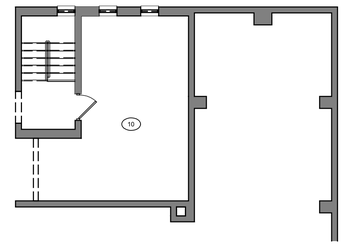
Sheet Title
GENERAL NOTES, LEGEND, AND SITE PLAN

Sheet No.
G001

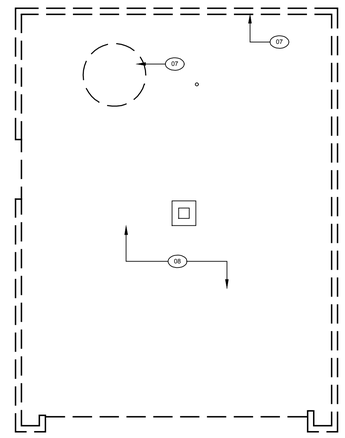
CONSTRUCTION DOCUMENTS



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



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



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

PLAN NORTH
TRUE NORTH

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43 COLUMBUS AVE, MOUNT KISCO, NY 10549

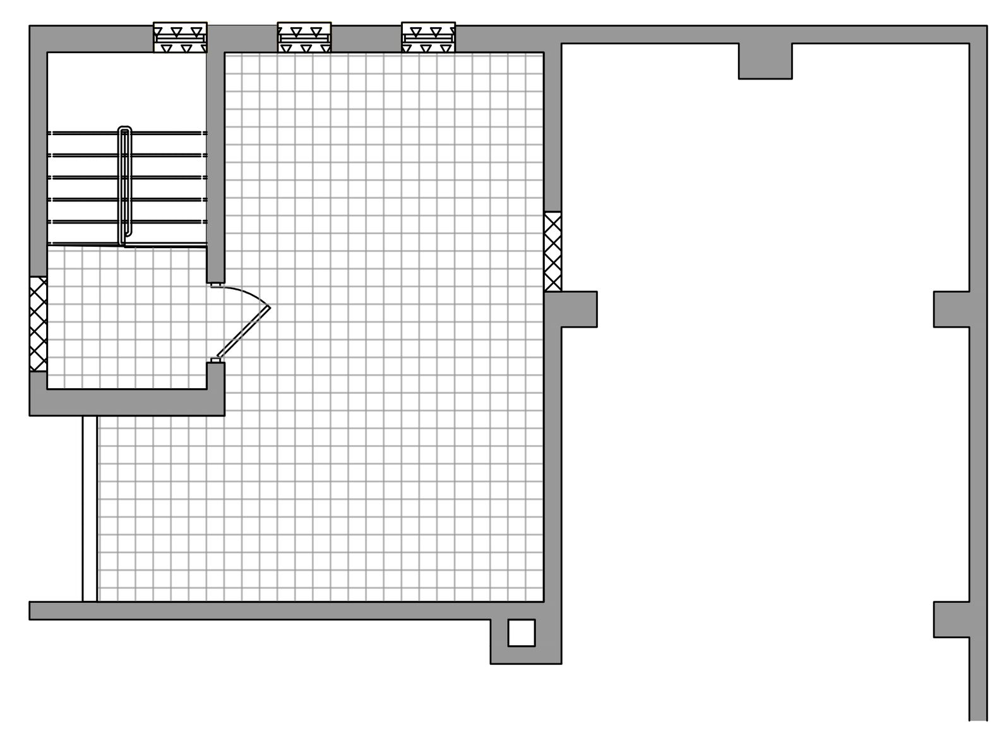
No	Date	Revison	By
4			
3			
2			
1			

Drawn By:	dh
Checked By:	dh
BDS Proj. #:	21-01
Date:	June 3, 2022

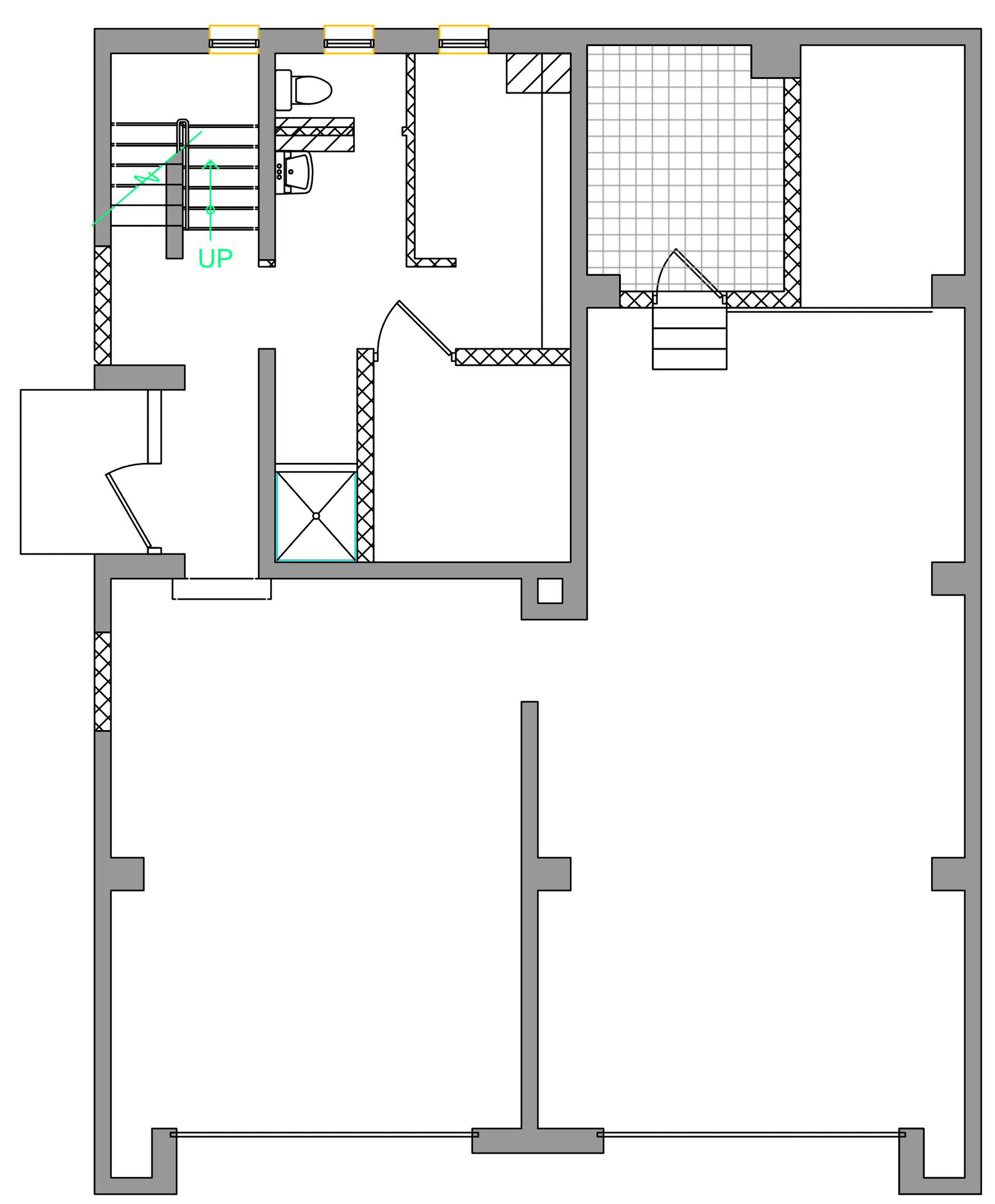
Sheet Title
DEMOLITION PLANS

Sheet No.
D100

CONSTRUCTION DOCUMENTS



DPW SECOND FLOOR ABATEMENT PLAN
2 / ASB-100
NOT TO SCALE



DPW FIRST FLOOR ABATEMENT PLAN
1 / ASB-100
NOT TO SCALE

ASBESTOS ABATEMENT NOTES

ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ACM WINDOW GLA ING AND CEMENTITIOUS PANEL.

ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF 12" x 12" FLOOR TILES AND MASTIC WHERE INDICATED.

ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS CONTAINING PIPE INSULATION AND ASSOCIATED MUDDED   OINT PACKING LOCATED IN BATHROOM WET WALLS AND PIPE CHASES.

ASBESTOS ABATEMENT LEGEND

ACM WINDOW GLA ING AND CEMENTITIOUS PANEL.

ACM 12" X 12" FLOOR TILE AND MASTIC.

ACM PIPE INSULATION & MUDDED   OINT PACKINGS

REFER TO SELECTIVE DEMOLITION DRAWING SERIES. RESPECT BOUNDARY LINES BETWEEN DEMOLITION / PHASING AREAS AND WORK AND NON-WORK AREAS.

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WAPPINGERS FALLS, NY 12590
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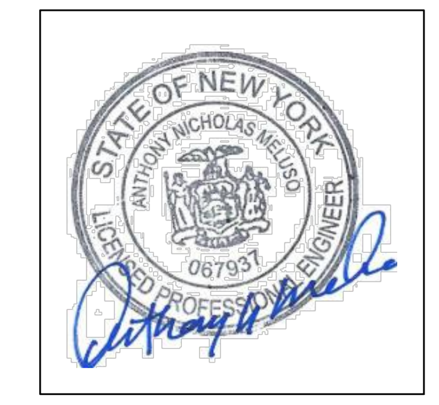
Project Title

VILLAGE OF MT. KISCO
WATER DEPT. BUILDING ADDITION
43 COLUMBUS AVE, MT KISCO, NY 10549



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Checked By:	d
BDS Proj. #:	22-01
Date:	June 3, 2022

Sheet Title

Abatement Plan

Sheet No.

ASB-100

CONSTRUCTION DOCUMENTS

DESIGN DATA NOTES

1. GENERAL

DESIGN PROVISIONS .... 2020 BUILDING CODE OF NEW YORK STATE (BCNYS)
RISK CATEGORY II
TERRAIN/EXPOSURE CATEGORY .... B
BASIC SEISMIC/MAIN WIND FORCE RESISTING SYSTEM: ... INTERMEDIATE REINFORCED MASONRY SHEAR WALLS

2. CODE COMPLIANCE FOR EXISTING STRUCTURES:

DESIGN PROVISIONS .... 2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
COMPLIANCE METHOD (EBCNYS) .... WORK AREA

CLASSIFICATION OR WORK (EBCNYS) .... ALTERATION LEVEL 2, ADDITION

THE FOLLOWING GRAVITY LOAD CARRYING ELEMENTS HAVE BEEN EVALUATED BASED ON THE LIVE LOAD AND DEAD LOAD REQUIREMENTS DESCRIBED BELOW:

MASONRY WALLS AND FOUNDATIONS AT NEW FLOOR SUPPORTS

EXISTING STRUCTURAL ELEMENTS RESISTING LATERAL LOADS ARE NO LESS CONFORMING TO THE PROVISIONS OF THE 2020 EBCNYS WITH RESPECT TO EARTHQUAKE DESIGN THAN THEY WERE PRIOR TO THIS WORK. THEREFORE, LATERAL LOADS HAVE NOT BEEN EVALUATED FOR THIS STRUCTURE.

3. LIVE LOAD:

FLOORS AND ROOFS HAVE BEEN DESIGNED TO SUPPORT THE UNIFORMLY DISTRIBUTED LIVE LOAD OR THE CONCENTRATED LIVE LOADS NOTED BELOW, WHICHEVER PRODUCED THE GREATER LOAD EFFECTS.

CONCENTRATED LIVE LOADS: (UNIFORMLY DISTRIBUTED OVER AN AREA 2.5 FEET SQUARE [6.25 SQUARE FEET] AND LOCATED SO AS TO PRODUCE THE MAXIMUM LOAD EFFECTS IN THE STRUCTURAL MEMBERS.)

ROOF .... 300 lbs
FLOOR .... 1,000 lbs

UNIFORMLY DISTRIBUTED LIVE LOADS:

ROOF .... 20 psf
FLOORS: MEZZANINE .... 125 psf

4. SNOW LOADS:

GROUND SNOW LOAD (Pg) .... 30 psf
FLAT-ROOF SNOW LOAD (Pf) .... 25 psf
SNOW EXPOSURE FACTOR (Ce) 1.0
THERMAL FACTOR (Ct) 1.2
IMPORTANCE FACTOR (Is) 1.0
RAIN LOAD (4.8 INCHES OF ACCUMULATION) .... 25 psf
A CODE COMPLIANT SECONDARY DRAINAGE SYSTEM SHALL BE PROVIDED TO LIMIT THE ACCUMULATED DEPTH OF WATER TO THIS AMOUNT OR LESS.
RAIN-ON-SNOW SURCHARGE LOAD .... NOT APPLICABLE

5. DEAD LOADS:

ROOF: METAL DECK .... 25 psf
FLOORS: MEZZANINE (CONCRETE PLANK AND TOPPING SLAB) .... 80 psf
OFFICE (EXISTING CONCRETE PLANK AND TOPPING SLAB) .... 105 psf

PORTION OF ABOVE DEAD LOAD CONSIDERED FOR MECHANICAL EQUIPMENT AND PIPING SUSPENDED FROM STRUCTURAL FRAMING:

ROOFS: .... 5 psf
FLOORS: .... 5 psf

(CONCENTRATED LOADS SHALL BE LIMITED TO THOSE WHICH INDUCE MOMENTS AND SHEARS IN MEMBERS NOT GREATER THAN THOSE INDUCED BY THE NOTED UNIFORMLY DISTRIBUTED LOADS.)

DO NOT SUSPEND CONCENTRATED LOADS FROM ROOF DECK.

SEE PLAN FOR LOCATIONS AND WEIGHTS OF LARGE EQUIPMENT. WEIGHT OF THIS EQUIPMENT IS IN ADDITION TO THE UNIFORM LOADS INDICATED ABOVE. SEE ALSO STRUCTURAL STEEL NOTES.

6. SEISMIC LOADS:

SITE CLASS: .... D
SHORT-PERIOD DESIGN ACCELERATION (Sds): 0.297
ONE-SECOND DESIGN ACCELERATION (Sd1): 0.097
SHORT PERIOD MAPPED SPECTRAL RESPONSE (Ss): 0.445
ONE-SECOND MAPPED SPECTRAL RESPONSE (S1): 0.146
SEISMIC DESIGN CATEGORY: .... B
IMPORTANCE FACTOR (Ie): 1.0
SYSTEM COEFFICIENT R: 3.5
ANALYSIS PROCEDURE: .... EQUIVALENT LATERAL FORCE
SEISMIC RESPONSE COEFFICIENT (Cs): 0.149
SEISMIC DESIGN BASE SHEAR (V): .... 37 kips

7. WIND LOADS:

MAIN WIND FORCE RESISTING SYSTEM HAS BEEN DESIGNED TO ASCE 7-16, AS REFERENCED IN THE 2020 BUILDING CODE OF NEW YORK STATE (BCNYS) SECTION 1609.1 USING THE FOLLOWING PROCEDURE:

THE ENVELOPE PROCEDURE PART 2 (ASCE 7-16, SECTION 28.5)

ULTIMATE WIND SPEED (3 SECOND GUST) (Vult): .... 115 mph
NOMINAL WIND SPEED (3 SECOND GUST) (Vasd): .... 90 mph
HEIGHT OF MAIN ROOF: .... 19' - 6"
TOPOGRAPHIC FACTOR (Kzt): 1.0
ENCLOSURE CLASSIFICATION: .... ENCLOSED
INTERNAL PRESSURE COEFFICIENT (GCpi): .... +/- 0.18

SEE 1/S001 FOR ADDITIONAL WIND LOAD DATA FOR ROOFS, OVERHANGS, COMPONENTS, AND CLADDING. NET UPLIFT LOAD ON ROOF FRAMING COMPONENTS SHALL BE DETERMINED BY DEDUCTING 10 psf DEAD LOAD FROM THE TABULATED ROOF WIND LOADS FOR COMPONENTS AND CLADDING. NET UPLIFT VALUE SHALL BE A MINIMUM OF 10 psf.

8. FLOOD LOAD: .... NOT APPLICABLE

9. SOIL PRESSURE:

PRESUMPTIVE SOIL BEARING PRESSURE: 4,000 psf ON UNDISTURBED MATERIAL OR COMPACTED STRUCTURAL FILL.

FOUNDATION DESIGN BASED ON RECOMMENDATIONS INCLUDED IN GEOTECHNICAL EVALUATION, PROPOSED BUILDING ADDITION, MOUNT KISCO DEPARTMENT OF PUBLIC WORKS, DATED NOVEMBER 4, 2021, BY TECTONIC ENGINEERING (W.O. 10941.01).

10. STRUCTURAL MATERIAL STRENGTHS:

STRUCTURAL AND MISCELLANEOUS STEEL:

ROLLED STEEL W SHAPES .... - ASTM A992
ROLLED STEEL C, S, M, MC, AND HP SHAPES .... - ASTM A36, OR ASTM A572, GRADE 50
ROLLED STEEL PLATES, BARS, AND ANGLES .... - ASTM A36, OR ASTM A572, GRADE 50
HOLLOW STRUCTURAL SECTIONS (HSS) .... - ASTM A500, GRADE C
PIPE .... - ASTM A53, TYPE E OR S, GRADE B

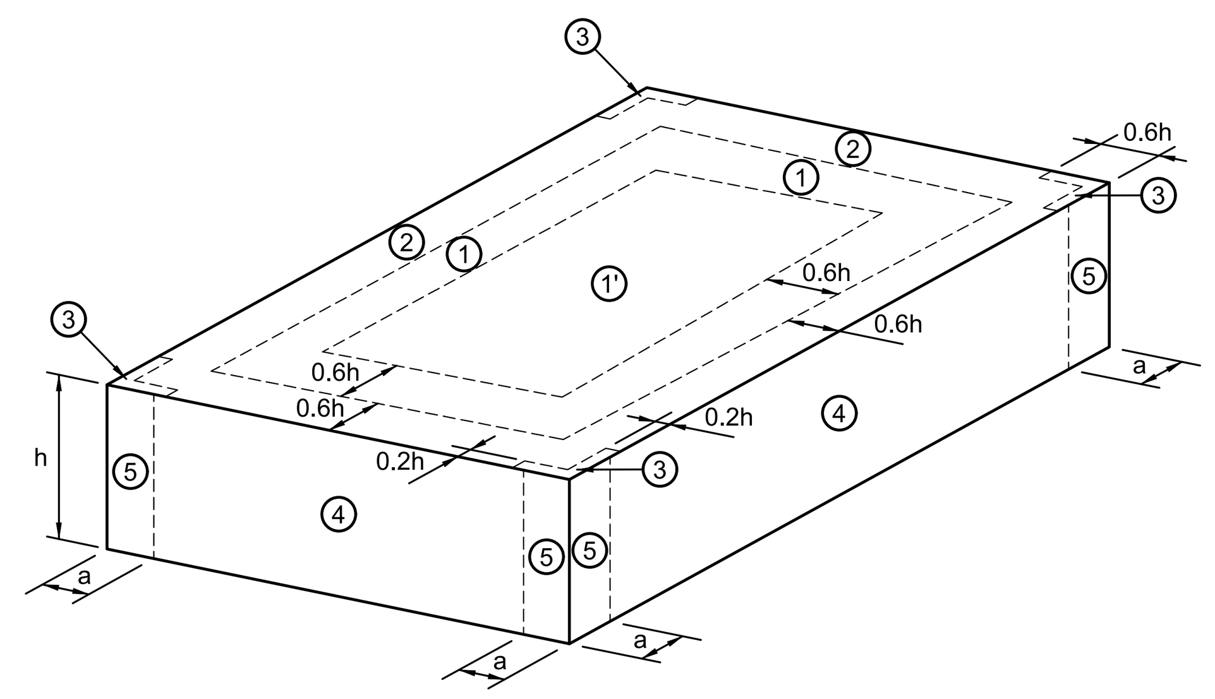
FOR CONNECTIONS, PROVIDE HIGHER GRADE AS REQUIRED FOR CAPACITY.

CONCRETE:

FOOTINGS, MISCELLANEOUS .... f'c = 3,000 psi
FOUNDATION WALLS:
INTERIOR .... f'c = 3,000 psi
EXTERIOR, SUBJECT TO DEICING CHEMICALS .... f'c = 5,000 psi
EXTERIOR, NOT SUBJECT TO DEICING CHEMICALS .... f'c = 4,500 psi
INTERIOR SLAB ON GRADE .... f'c = 3,500 psi
EXTERIOR SLAB ON GRADE:
EXTERIOR, SUBJECT TO DEICING CHEMICALS .... f'c = 5,000 psi
PRECAST CONCRETE PLANK .... f'c = 5,000 psi, OR AS REQUIRED BY MANUFACTURER

MASONRY:

INSULATED CONCRETE BLOCK .. ASTM C90, WITH AVERAGE NET COMPRESSIVE STRENGTH OF 2,000 psi; SPEC-THERMAL KORFIL HI-R-H, BY CONCRETE PRODUCTS GROUP.
CONCRETE BLOCK: .... ASTM C90, WITH AVERAGE NET COMPRESSIVE STRENGTH OF 2,000 psi.
MORTAR: .... ASTM C270, TYPE S.
UNIT MASONRY: .... ASTM C90 CMU (2,000 psi) AND TYPE S MORTAR f'c = 2,000 psi.
GROUT: .... ASTM C476, COMPRESSIVE STRENGTH OF 2,500 psi, 8 TO 11-INCH SLUMP



FLAT / HIP / GABLE (0°≤ Θ ≤7°)

COMPONENTS AND CLADDING WIND PRESSURE ZONE DESIGNATIONS

1 / S001

NOT TO SCALE

NOTE:
a = 3'-0"

ULTIMATE WIND PRESSURE FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS

BASIC WIND: Vult→115 mph EXPOSURE: B H (ft) = 20 Kzt = 1

ROOF TYPE	SURFACE	EFFECTIVE WIND AREA (sf)	WIND PRESSURE TOWARD SURFACE (psf)	WIND PRESSURE AWAY FROM SURFACE (psf)
0° to 7°	ZONE 1 ROOF	10	16.0	-33.7
		20	16.0	-31.5
		50	16.0	-28.6
		100	16.0	-26.3
	ZONE 1' ROOF CENTER	10	16.0	-19.4
		20	16.0	-19.4
		50	16.0	-19.4
		100	16.0	-19.4
	ZONE 1&1' ROOF OVERHANGS AT MIDDLE OF ROOF	10	NOT APPLICABLE	-30.5
		20	NOT APPLICABLE	-30.0
		50	NOT APPLICABLE	-29.3
		100	NOT APPLICABLE	-28.7
	ZONE 2 ROOF EDGES	10	16.0	-44.5
		20	16.0	-41.7
		50	16.0	-37.8
		100	16.0	-35.0
	ZONE 2 ROOF OVERHANGS AT ROOF EDGES	10	NOT APPLICABLE	-41.3
		20	NOT APPLICABLE	-37.5
		50	NOT APPLICABLE	-32.4
		100	NOT APPLICABLE	-28.6
	ZONE 3 ROOF CORNERS	10	16.0	-60.6
		20	16.0	-54.9
		50	16.0	-47.3
		100	16.0	-41.7
	ZONE 3 ROOF OVERHANGS AT ROOF CORNERS	10	NOT APPLICABLE	-57.4
		20	NOT APPLICABLE	-50.7
		50	NOT APPLICABLE	-41.9
		100	NOT APPLICABLE	-35.2
	ZONE 4 WALL	10	21.2	-23.0
		20	20.2	-22.0
		50	19.0	-20.7
		100	18.0	-19.8
	ZONE 5 WALL CORNERS	10	21.2	-28.4
		20	20.2	-26.4
		50	19.0	-23.9
		100	18.0	-22.0

GENERAL NOTES

1. DIMENSIONS TO, OF, AND IN EXISTING STRUCTURE SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS.
3. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
5. THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION OF CONSTRUCTION AND TO SUPPORT ONLY THE DESIGN LOAD INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS AND SEQUENCE OF CONSTRUCTION AND FOR THE ADEQUACY OF THE STRUCTURE TO SUPPORT TEMPORARY LOADS OCCURRING DURING CONSTRUCTION. TEMPORARILY BRACE BUILDING UNTIL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: (ROOF DECK, SHEAR WALLS, PRECAST CONCRETE PLANKS).
7. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PROPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR EQUIPMENT SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY ENGINEER.
8. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT OCCUR AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
9. COORDINATE NUMBER AND LOCATION OF ROOF DRAINS AND OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
10. DO NOT SUSPEND MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS FROM ROOF DECK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR HANGERS AND SUPPLEMENTAL FRAMING REQUIRED TO ATTACH THESE ITEMS TO THE MAIN ROOF FRAMING.
11. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.
12. DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE WITH AMENDMENTS.

TEMPORARY SHORING AND BRACING NOTES

1. TEMPORARY SHORING AND BRACING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN NEW YORK STATE AND RETAINED BY THE CONTRACTOR. THE CONTRACTOR'S ENGINEER IS THE "DELEGATED DESIGN ENGINEER" (DDE).
2. EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND DDE.
3. TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHERE SHOWN IN THE DRAWINGS AND SHALL SUPPORT THE LOADS INDICATED. IF IT IS DETERMINED THAT SHORING OR BRACING IS REQUIRED IN LOCATIONS OTHER THAN THOSE SHOWN OR WHERE LOADS ARE NOT INDICATED, THE DDE SHALL DETERMINE THE LOADS.
4. SHORING LOADS INDICATED INCLUDE EXISTING DEAD LOAD AND 25 psf CONSTRUCTION LIVE LOAD UNLESS NOTED OTHERWISE. IF PROPOSED CONSTRUCTION LIVE LOADS WILL BE HIGHER, DESIGN FOR HIGHER LOAD. INCLUDE SNOW, WIND, SEISMIC, AND OTHER LOADS AS APPROPRIATE FOR CONDITIONS.
5. SUBMIT LAYOUT DRAWINGS AND CALCULATIONS FOR TEMPORARY SHORING AND BRACING SYSTEMS, PREPARED AND SEALED BY THE DDE, FOR REVIEW BY THE REGISTERED DESIGN PROFESSIONAL. REGISTERED DESIGN PROFESSIONAL'S REVIEW IS FOR LOADING AND CONCEPT ONLY. DESIGN AND CONSTRUCTION OF SHORING AND BRACING REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. TEMPORARY SHORING AND BRACING CONCEPTS, WHERE SHOWN IN THE DRAWINGS, ARE FOR BIDDING PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE ONLY ACCEPTABLE CONCEPT. ALTERNATE CONCEPTS AND MEANS AND METHODS OF WORK MAY BE PROPOSED, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH CONTRACT PROCEDURES FOR ALTERNATES AND SUBSTITUTIONS.
7. TEMPORARY SHORING SHALL EXTEND DOWN TO GRADE UNLESS EVALUATION BY THE DDE SHOWS THAT EXISTING UPPER LEVELS OF STRUCTURE CAN SUPPORT THE SHORING LOADS IN ADDITION TO THE OTHER LOADS TO BE SUPPORTED BY THE STRUCTURE DURING CONSTRUCTION.
8. PRELOAD OR JACK TEMPORARY SHORING AND BRACING WERE INDICATED TO LIMIT DEFLECTION OF PERMANENT STRUCTURE TO REMAIN.
9. DO NOT PROCEED WITH REMOVAL OF EXISTING STRUCTURE UNTIL THE TEMPORARY SHORING AND BRACING HAS BEEN INSTALLED AND IT HAS BEEN REVIEWED AND ACCEPTED BY A COMPETENT PERSON.
10. TEMPORARY SHORING AND BRACING SHALL BE REVIEWED ON A DAILY BASIS BY A COMPETENT PERSON TO VERIFY THAT IT REMAINS STABLE AND FUNCTIONING AS INTENDED.
11. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FOUNDATION NOTES

1. BEAR FOOTINGS ON FIRM UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL.
2. FOOTINGS HAVE BEEN DESIGNED FOR A SOIL BEARING PRESSURE OF 4,000 psf. BEARING STRATUM FOR THIS CAPACITY SHALL BE VERIFIED IN FIELD BY A LICENSED GEOTECHNICAL ENGINEER BEFORE CASTING CONCRETE FOOTINGS.
3. UNLESS OTHERWISE NOTED, BOTTOM OF EXTERIOR FOOTINGS IS 3.5 FEET MINIMUM BELOW FINISH GRADE AND BOTTOM OF INTERIOR FOOTINGS MINIMUM BELOW SLAB. FOOTINGS MAY BE STEPPED DOWN OR LOWERED TO REACH AN ACCEPTABLE 4,000 psf BEARING STRATUM AS DETERMINED BY GEOTECHNICAL ENGINEER.
4. SOIL BEARING SURFACES PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN, OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF GEOTECHNICAL ENGINEER.
5. THE STRUCTURE IS DESIGNED TO FUNCTION WHERE FOOTINGS ARE LOWERED IN ELEVATION DUE TO SOIL CONDITIONS, LOWER ADJACENT FOOTINGS IN ELEVATION IN ORDER THAT RATIO OF CLEAR DISTANCE BETWEEN NEAREST EDGE OF FOOTINGS TO DIFFERENCE IN ELEVATION BETWEEN BOTTOMS OF FOOTINGS SHALL NOT EXCEED 2H:1V.
6. FOUNDATION PREPARATION: REFER TO SPECIFICATIONS FOR "EXCAVATION, BACKFILL AND COMPACTION (BUILDING AREA)".
7. STRIP AND PROOF ROLL ENTIRE BUILDING AREA. PLACE AND COMPACT STRUCTURAL FILL TO REACH REQUIRED SUBGRADE LEVELS. VERIFY PROCEDURES WITH GEOTECHNICAL ENGINEER BEFORE BEGINNING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
9. DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
10. CENTER FOOTINGS UNDER WALLS, PIERS, OR COLUMNS UNLESS NOTED OTHERWISE. USE SIDE FORMS FOR FOOTINGS.
11. WHERE REQUIRED, STEP NEW FOOTINGS UP OR DOWN IN RATIO OF TWO HORIZONTAL TO ONE VERTICAL TO JOIN EXISTING FOOTINGS.
12. CONCRETE WALLS SHALL ATTAIN A MINIMUM STRENGTH OF 70% f'c BEFORE PLACING BACKFILL AGAINST THEM.

CAST-IN-PLACE CONCRETE NOTES (FOUNDATION)

1. REINFORCE CONCRETE ELEMENTS INCLUDING FOOTING, WALLS, AND SLABS. REINFORCEMENT SHOWN PERTAINS TO TYPICAL CONDITIONS.
2. LAP SPLICE CONCRETE REINFORCEMENT AS INDICATED IN THE CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE, UNLESS NOTED OTHERWISE.
3. LAP CONTINUOUS FOOTING AND HORIZONTAL WALL REINFORCEMENT WITH A CLASS B LAP SPLICE UNLESS NOTED OTHERWISE.
4. PROVIDE CORNER BARS IN FOOTINGS, THE SAME SIZE AND NUMBER AS CONTINUOUS REINFORCEMENT. PROVIDE CLASS B LAP SPLICE WITH MAIN REINFORCEMENT, BUT NOT LESS THAN 2'-0".
5. PLACE TRANSVERSE REINFORCEMENT IN CONTINUOUS FOOTINGS WERE SHOWN IN BOTTOM LAYER.
6. CAST STEPPED FOOTINGS MONOLITHICALLY.
7. DOWEL CONCRETE WALLS INTO FOOTINGS WITH DOWELS THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3 INCHES OF BOTTOM OF FOOTING, TERMINATED WITH A.C.I. STANDARD 90 DEGREE HOOK. PROVIDE CLASS B LAP SPLICE WITH VERTICAL REINFORCEMENT UNLESS NOTED OTHERWISE.
8. AT INTERSECTIONS OF CONCRETE WALLS, PROVIDE CORNER BARS IN OUTER LAYER THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT AND PROVIDE A CLASS B LAP SPLICE WITH MAIN REINFORCEMENT, BUT NOT LESS THAN 2'-0". AT "T" INTERSECTIONS, PROVIDE CORNER BARS FROM EACH LAYER IN INTERSECTING WALL TO OUTER LAYER OF THROUGH WALL.
9. PROVIDE KEYS IN CONCRETE WALLS, AND FOOTINGS AT VERTICAL CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE. KEYS SHALL BE 1 1/2 INCHES DEEP AND THE WIDTH OF THE KEY SHALL BE ONE-THIRD THE WALL THICKNESS AND CENTERED WITHIN THE WALL.
10. ALIGN FOUNDATION WALL CONSTRUCTION JOINTS WITH MASONRY WALL CONTROL JOINTS.
11. VERIFY SIZE AND LOCATION OF MECHANICAL OPENINGS.
12. PIPING, CONDUIT, AND DUCT PENETRATIONS THROUGH WALLS SHALL BE SLEEVED OR CHASED. NO CORE-DRILLING OF WALLS IS PERMITTED.
13. MINIMUM BAR DEVELOPMENT LENGTH EQUALS CLASS A LAP LENGTH.
14. CHAMFER EXPOSED CONCRETE CORNERS AND EDGES 3/4 INCH UNLESS NOTED OTHERWISE.
15. CONCRETE COVER FOR REINFORCEMENT SHALL BE AS INDICATED IN THE CONCRETE COVER SCHEDULE.
16. PROVIDE WATERSTOP IN BELOW-GRADE WALL JOINTS, WALL-TO-FOOTING JOINTS, AND SLAB-TO-WALL JOINTS.

CONCRETE COVER SCHEDULE

LOCATION	COVER
FOOTINGS POURED AGAINST EARTH:	3"
SURFACE EXPOSED TO WEATHER OR EARTH (INCLUDING SURFACES OF FOUNDATION WALLS COVERED WITH WATERPROOFING MEMBRANE AND/OR INSULATION):	
BARS LARGER THAN #5	2"
#5 BARS OR SMALLER	1 1/2"
SURFACES NOT EXPOSED TO WEATHER OR EARTH:	
SLABS AND WALLS	3/4"
BEAMS, GIRDERS, PIERS, AND COLUMNS	1 1/2"
BETWEEN BARS AND EMBEDDED ITEMS:	
IN CONCRETE ELEMENTS EXPOSED TO WEATHER OR EARTH	1 1/2"
IN CONCRETE ELEMENTS NOT EXPOSED TO WEATHER OR EARTH	3/4"

SLAB ON GRADE NOTES

1. SUBGRADE BELOW SLAB ON GRADE SHALL BE REVIEWED AND ACCEPTED BY GEOTECHNICAL ENGINEER BEFORE CONCRETE SLAB PLACEMENT.
2. PROVIDE PROTECTION FROM PRECIPITATION AND EXCESSIVE COLD TEMPERATURES FOR THE VAPOR RETARDER AND SLAB SUBBASE PRIOR TO SLAB-ON-GRADE PLACEMENT. SUBBASE MUST BE DRY AND NOT FROZEN AT THE TIME OF SLAB PLACEMENT.
3. DO NOT PLACE SLABS ON FROZEN GROUND. IF SUBGRADE OR SUBBASE ARE FROZEN AFTER PREPARATION, THEY SHALL BE THAWED THEN RECOMPACTED AND RETESTED FOR COMPACTION PRIOR TO SLAB PLACEMENT, AT THE EXPENSE OF THE CONTRACTOR.
4. PROVIDE PROTECTION FOR THE SLAB ON GRADE FROM DIRECT EXPOSURE TO THE SUN, WIND, PRECIPITATION, AND EXCESSIVE COLD OR HOT TEMPERATURES STARTING DURING PLACEMENT AND LASTING UNTIL THE END OF THE CURING PERIOD. DO NOT ALLOW GROUND BENEATH SLABS TO FREEZE.
5. PRIOR TO SLAB PLACEMENT, SUBMIT FOR INFORMATION ONLY A WRITTEN PROTECTION PROGRAM FOR THE VAPOR RETARDER, SLAB SUBBASE, AND SLAB ON GRADE.
6. SLAB JOINTS ARE REQUIRED WHERE SHOWN ON PLAN. WHERE JOINTS ARE NOT SHOWN, SEE "OPTION FOR SLAB PLACEMENT" IN DIVISION 3 SPECIFICATIONS. SUBMIT JOINT LAYOUT TO THE ENGINEER FOR REVIEW.
7. PROVIDE A SQUARE EDGE FORM JOINT FOR CONSTRUCTION JOINTS AND A SAW-CUT JOINT FOR CONTRACTION JOINTS IN SLABS ON GRADE. CONTINUE 50 PERCENT OF SLAB REINFORCEMENT THROUGH CONSTRUCTION AND CONTRACTION JOINTS.
8. REINFORCE SLABS AS NOTED ON DRAWINGS. AT PERIMETER OF SLABS, LOCATE REINFORCING 3 INCHES FROM SLAB EDGES.
9. PROVIDE ONE #4 BAR, 4 FEET LONG, DIAGONAL AT CORNERS AND OPENINGS IN SLAB ON GRADE.
10. VERIFY SIZE AND LOCATION OF PLATFORMS, CURBS, OR PADS WITH MECHANICAL CONTRACTOR.
11. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DETAILS OF RECESSED SLAB. IF RECESS DEPTH EXCEEDS 1 INCH, STEP BOTTOM OF SLAB TO MAINTAIN INDICATED SLAB THICKNESS BELOW THE RECESS. CONTINUE SLAB REINFORCING UNDER RECESS; BEND BARS AS REQUIRED TO MAINTAIN REQUIRED CONCRETE COVER.
12. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE

BAR LAP LENGTHS, UNCOATED BARS AND GALVANIZED BARS

BAR SIZE	MINIMUM CLEAR COVER (INCH)	MINIMUM SPACING CENTER/CENTER (INCH)	CLASS B LAP NOT A TOP BAR (INCH)	CLASS B LAP TOP BAR (INCH)
#4	3/4	2	20	26
#5	3/4	2 1/8	29	38
#6	3/4	2 1/4	40	52
#7	1 1/2	3 7/8	40	51
#8	1 1/2	4	50	65
#9	1 1/2	4 1/8	61	80
#10	1 1/2	4 1/4	75	97
#11	1 1/2	4 3/8	90	116

BAR LAP LENGTHS, EPOXY COATED BARS

BAR SIZE	MINIMUM CLEAR COVER (INCH)	MINIMUM SPACING CENTER/CENTER (INCH)	CLASS B LAP NOT A TOP BAR (INCH)	CLASS B LAP TOP BAR (INCH)
#4	3/4	2	30	39
#5	3/4	2 1/8	44	57
#6	3/4	2 1/4	59	77
#7	1 1/2	3 7/8	59	77
#8	1 1/2	4	75	97
#9	1 1/2	4 1/8	92	119
#10	1 1/2	4 1/4	112	146
#11	1 1/2	4 3/8	134	174

NOTES FOR SCHEDULE:

1. USE VALUES FOR "CLASS B LAP TOP BAR" FOR ALL HORIZONTAL REINFORCEMENT HAVING 12 INCHES OR MORE FRESH CONCRETE BELOW REINFORCEMENT BAR. ALL OTHER CONDITIONS MAY USE "CLASS B LAP" SPLICE LENGTHS.
2. LAP SPLICE LENGTHS APPLY TO CONCRETE CONSTRUCTION HAVING F'c = 3,500 psi OR HIGHER.
3. BAR DEVELOPMENT LENGTH MAY BE OBTAINED BY DIVIDING APPLICABLE LAP SPLICE LENGTH BY 1.3. MINIMUM BAR DEVELOPMENT LENGTH IS 12 INCHES.
4. CONTACT ENGINEER FOR REQUIRED SPLICE LENGTH WHERE BAR COVER OR SPACING IS LESS THAN TABULATED VALUES.

ABBREVIATIONS LEGEND

ADDL	– ADDITIONAL	EOD	– EDGE OF DECK	PAF	– POWDER–ACTUATED FASTENER
ADJ	– ADJACENT	EOS	– EDGE OF SLAB		
L	– ANGLE	FD	– FLOOR DRAIN	PE	– PROFESSIONAL ENGINEER
		FDN	– FOUNDATION	PERP	– PERPENDICULAR
APPROX	– APPROXIMATE	FTG	– FOOTING	PLF	– POUNDS PER LINEAL FOOT
ARCH	– ARCHITECT ARCHITECTURAL	GA	– GAUGE		
		GALV	– GALVANIZED	PSF	– POUNDS PER SQUARE FOOT
B/	– BOTTOM OF	HSS	– HOLLOW STEEL SECTION		
BLDG	– BUILDING			PSI	– POUNDS PER SQUARE INCH
BRG	– BEARING	HORIZ	– HORIZONTAL		
BP	– BASE PLATE	HI	– HIGH	PCF	– POUNDS PER CUBIC FOOT
CANT	– CANTILEVER	HP	– HIGH POINT		
CJ	– CONTROL, CONTRACTION, CONSTRUCTION JOINT	HVAC	– HEATING/ VENTILATING/ AIR CONDITIONING	PC	– PRECAST
				PSL	– PARALLEL STRAND LUMBER
℄	– CENTERLINE	INFO	– INFORMATION	PT	– PRESSURE TREATED
CMU	– CONCRETE MASONRY UNITS(S)	INT	– INTERIOR	R	– RADIUS
		INV	– INVERT	RD	– ROOF DRAIN
CONC	– CONCRETE	K	– KIPS	RDP	– REGISTERED DESIGN PROFESSIONAL
CONT	– CONTINUOUS	LG	– LONG		
COL	– COLUMN	LLH	– LONG LEG HORIZONTAL	REQD	– REQUIRED
CFMF	– COLD–FORMED METAL FRAMING			REINF	– REINFORCING OR REINFORCED
		LLV	– LONG LEG VERTICAL		
COORD	– COORDINATE			REV	– REVISION OR REVISED
ø	– DIAMETER	LOC	– LOCATION	RO	– ROUGH OPENING
DIM	– DIMENSION	LW	– LIGHT WEIGHT	SIM	– SIMILAR
DN	– DOWN	LVL	– LAMINATED VENEER LUMBER	SPA	– SPACE
do	– DITTO			STD	– STANDARD
DWG	– DRAWING	LO	– LOW	SF	– SQUARE FEET
EA	– EACH	MANUF	– MANUFACTURER	SS	– STAINLESS STEEL
EF	– EACH FACE	MAX	– MAXIMUM	STL	– STEEL
EJ	– EXPANSION JOINT	MECH	– MECHANICAL	SQ	– SQUARE
ELEC	– ELECTRICAL	MIN	– MINIMUM	T/	– TOP OF
EL	ELEVATION	MISC	– MISCELLANEOUS	TIM	– THERMAL ISOLATION MATERIAL
ELEV	ELEVATOR	MO	– MASONRY OPENING		
ENGR	ENGINEER	NA	– NOT APPLICABLE	TYP	– TYPICAL
EMBD	EMBEDDED	NIC	– NOT IN CONTRACT	UNO	– UNLESS NOTED OTHERWISE
EQ	EQUAL	NOM	– NOMINAL		
EQUIP	EQUIPMENT	NW	– NORMAL WEIGHT	VERT	– VERTICAL
ES	EACH SIDE	OC	– ON CENTER	VIF	– VERIFY IN FIELD
EW	EACH WAY	OD	– OUTSIDE DIAMETER	W/	– WITH
EXIST	EXISTING	OPNG	– OPENING	WP	– WORK POINT
EXP	EXPANSION	OPP	– OPPOSITE	WWR	– WELDED WIRE REINFORCEMENT
EXT	EXTERIOR	℘	– PLATE		
				WCJ	– WALL CONTROL OR CONSTRUCTION JOINT

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

STATE OF NEW YORK · CHRISTOPHER A. LEITER · 074148 · LICENSED PROFESSIONAL ENGINEER

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MASONRY NOTES

1. MASONRY WALLS SHALL HAVE STANDARD WEIGHT JOINT REINFORCEMENT EVERY SECOND COURSE AND TOP TWO COURSES UNLESS NOTED OTHERWISE. PROVIDE LADDER TYPE JOINT REINFORCING FOR REINFORCED MASONRY WALLS. LAP SPLICE JOINT REINFORCEMENT A MINIMUM OF 8 INCHES. TYPICALLY, USE PREFABRICATED CORNERS AND TEES.
2. PLACE JOINT REINFORCEMENT CONTINUOUSLY THROUGH PILASTERS.
3. SUBMIT PROPOSED GROUTING PROGRAM FOR GROUTING CONCRETE MASONRY WALLS. GROUTING SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF NCMA-TEK 3-2A, "GROUTING CONCRETE MASONRY WALLS." STOP GROUT 2 INCHES BELOW TOP OF BLOCK AT EACH POUR TO ENABLE AN INTERLOCK WITH NEXT POUR.GROUT CORES SOLID AT REINFORCING BARS AND ELSEWHERE AS INDICATED ON DRAWINGS.
4. REINFORCE WALLS AS SCHEDULED. SEE 1/S400 FOR ELEVATION OF MASONRY WALL REINFORCING.
5. FILL CORES IN HOLLOW CONCRETE MASONRY UNITS WITH GROUT THREE COURSES (24 INCHES) UNDER BEARING PLATES, BEAMS, LINTELS, POSTS, AND SIMILAR ITEMS, UNLESS OTHERWISE NOTED.
6. FULLY GROUT ALL CORES IN PRE-INSULATED CONCRETE MASONRY UNITS.
7. PROVIDE BOND BEAM AT TOPS OF WALLS, AT EACH FLOOR, AND ELSEWHERE AS DETAILED.
8. FILL COLUMN AND BEAM POCKETS WITH MASONRY AFTER COLUMN OR BEAM IS ERECTED.
9. NON-LOAD BEARING PARTITIONS SHALL NOT BE BUILT TIGHT TO STRUCTURE ABOVE, LEAVE GAP BETWEEN TOP OF PARTITION AND STRUCTURE, AND BRACE TOP OF PARTITION AS INDICATED ON DRAWINGS.
10. STRUCTURAL DRAWINGS DO NOT SHOW FLASHING, WEEPS, AND DRIPS; HOWEVER, THEY ARE ESSENTIAL TO MAINTAINING THE WATER TIGHTNESS OF THE BUILDING AND PROTECTION OF THE FRAMING. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILS AND INFORMATION.

REINFORCED MASONRY LINTEL NOTES

1. REINFORCED MASONRY LINTEL MATERIALS INCLUDE REINFORCED CMU.
2. COORDINATE WALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT ALL OPENINGS ARE SHOWN IN THE STRUCTURAL DRAWINGS.
3. FOR OPENINGS NOT OTHERWISE DETAILED, INCLUDING MECHANICAL OPENINGS, USE REINFORCED MASONRY LINTEL 8 INCHES DEEP FOR SPANS UP TO 4 FEET AND 16 INCHES DEEP FOR SPANS UP TO 6 FEET.
4. USE THE FOLLOWING MINIMUM REINFORCING: ONE #5 TOP AND BOTTOM FOR EACH 4 INCHES OF MASONRY WIDTH, UNLESS NOTED OTHERWISE.
5. LOCATE REINFORCING IN REINFORCED CMU LINTELS 3/4-INCH CLEAR FROM INSIDE FACE OF FACE SHELL IN LINTELS CONTAINING MULTIPLE BARS. CENTER BAR IN LINTELS CONTAINING ONLY ONE BAR.
6. REINFORCED CMU LINTELS SHALL BE MADE OF SAME MATERIAL WITH SAME COLOR AND TEXTURE AS SURROUNDING WALLS. EXTEND REINFORCING 48 BAR DIAMETERS BEYOND OPENINGS. HOOK BAR ENDS WHERE 48 BAR DIAMETERS CANNOT BE ACHIEVED.
7. BEAR LINTELS A MINIMUM OF 8 INCHES EACH END.
8. SHORE REINFORCED MASONRY LINTELS UNTIL MASONRY WALL ABOVE LINTEL HAS CURED A MINIMUM OF 14 DAYS.
9. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LINTEL NOTES

1. COORDINATE WALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT ALL OPENINGS ARE SHOWN IN THE STRUCTURAL DRAWINGS.
2. FOR OPENINGS NOT OTHERWISE DETAILED OR SCHEDULED, INCLUDING DOORS, WINDOWS, AND MECHANICAL OPENINGS, MINIMUM LINTEL SHALL BE (FOR EACH 4 INCHES OF MASONRY WIDTH) ONE L3 1/3x3 1/2x5/16 FOR SPANS UP TO 4 FEET; ONE L4x3 1/2x5/16 (LLV) FOR SPANS UP TO 6 FEET; ONE L5x3 1/2x5/16 (LLV) FOR SPANS UP TO 8 FEET. FOR SPANS LESS THAN 2 FEET, PROVIDE A 5/16 INCH PLATE.
3. WELD TOGETHER BACK-TO-BACK LINTELS. MAXIMUM WELD SPACING SHALL NOT EXCEED 18 INCHES ON CENTER.
4. BEAR LINTELS A MINIMUM OF 8 INCHES EACH END UNLESS NOTED OTHERWISE.

MASONRY REINFORCEMENT LAP SPLICE SCHEDULE

BAR LAP LENGTHS IN CMU WITH f'm = 2,000 psi

LOCATION	#4	#5	#6
(1) BAR AT CENTER OF 8" CMU CORE OR BOND BEAM	18"	22"	38"
(1) BAR AT CENTER OF 12" CMU CORE OR BOND BEAM	18"	22"	34"
(1) BAR LOCATED AS DETAILED IN CORE OF 12" PRE-INSULATED CMU	22"	35"	66"
(2) BARS IN 12" CMU CORE LOCATED 9" FROM EACH FACE SHELL	19"	30"	57"
(2) BARS IN 8", 10", 12" CMU BOND BEAM (SEE NOTE BELOW)	22"	35"	64"

NOTE:

LOCATE REINFORCING BARS 3/4-INCH CLEAR FROM INSIDE FACE OF FACE SHELL (EXCEPT CENTER REINFORCING IN BOND BEAMS DETAILED TO HAVE ONLY ONE BAR).

COLD WEATHER MASONRY CONSTRUCTION REQUIREMENTS

	CONSTRUCTION – BASED UPON AMBIENT TEMPERATURES	PROTECTION – BASED UPON ANTICIPATED MINIMUM DAILY TEMPERATURES
ABOVE 40°F	1. NORMAL MASONRY PROCEDURES.	1. NORMAL MASONRY PROCEDURES.
40°F – 32°F	1. HEAT MORTAR SAND OR MIXING WATER TO PRODUCE MORTAR TEMPERATURE BETWEEN 40°F AND 120°F AT TIME OF MIXING. MAINTAIN MORTAR ABOVE 40°F UNTIL USED IN MASONRY. 2. KEEP GROUT AGGREGATES ABOVE 32°F.	1. COVER TOP 2 FEET OF UNFINISHED MASONRY WORK WITH A WATER-RESISTIVE MEMBRANE FOR AT LEAST 24 HOURS AND AT THE END OF EACH DAY'S WORK.
32°F – 25°F	1. HEAT MORTAR SAND AND MIXING WATER TO PRODUCE MORTAR TEMPERATURE BETWEEN 40°F AND 120°F AT TIME OF MIXING. MAINTAIN MORTAR ABOVE 40°F UNTIL USED IN MASONRY. 2. HEAT GROUT AGGREGATES AND MIXING WATER TO PRODUCE GROUT TEMPERATURE BETWEEN 70°F AND 120°F AT TIME OF MIXING. 3. MAINTAIN GROUT TEMPERATURES ABOVE 70°F AT TIME OF PLACEMENT.	1. COVER TOP 2 FEET OF UNFINISHED MASONRY WORK WITH A WATER-RESISTIVE MEMBRANE FOR AT LEAST 24 HOURS AND AT THE END OF EACH DAY'S WORK.
25°F – 20°F	1. HEAT MORTAR SAND AND MIXING WATER TO PRODUCE MORTAR TEMPERATURE BETWEEN 40°F AND 120°F AT TIME OF MIXING. MAINTAIN MORTAR ABOVE 40°F UNTIL USED IN MASONRY. 2. HEAT GROUT AGGREGATES AND MIXING WATER TO PRODUCE GROUT TEMPERATURE BETWEEN 70°F AND 120°F AT TIME OF MIXING. 3. MAINTAIN GROUT TEMPERATURES ABOVE 70°F AT TIME OF PLACEMENT. 4. HEAT MASONRY SURFACES UNDER CONSTRUCTION TO 40°F, AND USE WIND BREAKS OR ENCLOSURES WHEN WIND VELOCITY EXCEEDS 15 MPH. 5. HEAT MASONRY TO A MINIMUM OF 40°F PRIOR TO GROUTING.	1. COVER NEWLY CONSTRUCTED MASONRY (LESS THAN 48 HOURS OLD) COMPLETELY WITH WEATHER-RESISTIVE INSULATING BLANKETS, OR EQUAL PROTECTION, FOR AT LEAST 48 HOURS AFTER CONSTRUCTION OF WORK.
Below 20°F	1. HEAT MORTAR SAND AND MIXING WATER TO PRODUCE MORTAR TEMPERATURE BETWEEN 40°F AND 120°F AT TIME OF MIXING. MAINTAIN MORTAR ABOVE 40°F UNTIL USED IN MASONRY. 2. HEAT GROUT AGGREGATES AND MIXING WATER TO PRODUCE GROUT TEMPERATURE BETWEEN 70°F AND 120°F AT TIME OF MIXING. 3. MAINTAIN GROUT TEMPERATURES ABOVE 70°F AT TIME OF PLACEMENT. 4. HEAT MASONRY SURFACES UNDER CONSTRUCTION TO 40°F, AND USE WIND BREAKS OR ENCLOSURES WHEN WIND VELOCITY EXCEEDS 15 MPH. 5. HEAT MASONRY TO A MINIMUM OF 40°F PRIOR TO GROUTING. 6. PROVIDE AN ENCLOSURE AND AUXILIARY HEAT TO MAINTAIN AIR TEMPERATURE ABOVE 40°F IN ENCLOSURE.	1. COVER NEWLY CONSTRUCTED MASONRY (LESS THAN 48 HOURS OLD) COMPLETELY WITH WEATHER-RESISTIVE INSULATING BLANKETS, OR EQUAL PROTECTION, FOR AT LEAST 48 HOURS AFTER CONSTRUCTION OF WORK. 2. MAINTAIN NEWLY CONSTRUCTED MASONRY (LESS THAN 48 HOURS OLD) ABOVE 32°F FOR AT LEAST 48 HOURS AFTER BEING CONSTRUCTED USING HEATED ENCLOSURES OR OTHER ACCEPTABLE METHODS. 3. PROVIDE HIGH-LOW RECORDING THERMOMETERS TO DOCUMENT TEMPERATURES OF MASONRY.

NOTES:

1. DO NOT LAY MASONRY UNITS HAVING EITHER A TEMPERATURE BELOW 40°F OR CONTAINING FROZEN MOISTURE, VISIBLE ICE, OR SNOW ON THEIR SURFACE.
2. REMOVE VISIBLE ICE AND SNOW FROM THE TOP SURFACE OF EXISTING FOUNDATIONS AND MASONRY TO RECEIVE NEW CONSTRUCTION. HEAT THESE SURFACES ABOVE FREEZING USING METHODS THAT DO NOT RESULT IN DAMAGE.

HOT WEATHER MASONRY CONSTRUCTION REQUIREMENTS

	CONSTRUCTION – BASED UPON AMBIENT TEMPERATURES	PROTECTION – BASED UPON ANTICIPATED MEAN DAILY TEMPERATURES
BELOW 90°F	1. NORMAL MASONRY PROCEDURES.	1. NORMAL MASONRY PROCEDURES.
90°F – 105°F	1. MAINTAIN SAND PILES IN A DAMP, LOOSE CONDITION. 2. PROVIDE NECESSARY CONDITIONS AND EQUIPMENT TO PRODUCE MORTAR HAVING A TEMPERATURE BELOW 120°F (48.9°C). 3. MAINTAIN TEMPERATURE OF MORTAR AND GROUT BELOW 120°F (48.9°C). 4. FLUSH MIXER, MORTAR TRANSPORT CONTAINER, AND MORTAR BOARDS WITH COOL WATER BEFORE THEY COME INTO CONTACT WITH MORTAR INGREDIENTS OR MORTAR. 5. MAINTAIN MORTAR CONSISTENCY BY RETEMPERING WITH COOL WATER. 6. USE MORTAR WITHIN 2 HOURS OF INITIAL MIXING.	1. FOG SPRAY NEWLY CONSTRUCTED MASONRY UNTIL DAMP, AT LEAST THREE TIMES A DAY UNTIL THE MASONRY IS THREE DAYS OLD.
ABOVE 105°F	1. MAINTAIN SAND PILES IN A DAMP, LOOSE CONDITION. 2. PROVIDE NECESSARY CONDITIONS AND EQUIPMENT TO PRODUCE MORTAR HAVING A TEMPERATURE BELOW 120°F (48.9°C). 3. SHADE MATERIALS AND MIXING EQUIPMENT FROM DIRECT SUNLIGHT. 4. USE COOL MIXING WATER FOR MORTAR AND GROUT. ICE IS PERMITTED IN THE MIXING WATER PRIOR TO USE. DO NOT PERMIT ICE IN THE MIXING WATER WHEN ADDED TO THE OTHER MORTAR OR GROUT MATERIALS.	

STRUCTURAL OBSERVATION NOTES

1. THE REGISTERED DESIGN PROFESSIONAL WILL MAKE VISITS TO THE SITE AT APPROPRIATE INTERVALS FOR THE PURPOSE OF OBSERVING THE CONSTRUCTION FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE FOLLOWING LIST INCLUDES SOME APPROPRIATE TIMES FOR VISITING THE SITE. THE CONTRACTOR SHALL NOTIFY THE REGISTERED DESIGN PROFESSIONAL AT LEAST 48 HOURS PRIOR TO PERFORMING THESE ACTIVITIES SO THAT SITE VISITS CAN BE SCHEDULED.
   - INITIAL PLACEMENT OF REINFORCING BARS FOR FOOTINGS, AND FOUNDATION WALLS (AFTER EXCAVATION AND PRIOR TO CLOSING OF FORMS).
   - INITIAL ERECTION OF STRUCTURAL STEEL AND METAL DECK.
   - SLAB PRE-CONSTRUCTION MEETING (SEE DIVISION 3 SPECIFICATIONS).
   - INITIAL PLACEMENT OF REINFORCING BARS AND PREPARATIONS FOR SLAB ON GRADE (INCLUDING VAPOR RETARDER AND SUBBASE).
   - CONSTRUCTION OF THE MASONRY SAMPLE PANEL. CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER SO THAT ONE OR BOTH CAN BE PRESENT TO OBSERVE THE CONSTRUCTION OF THE PANEL. REVIEW OF THE SAMPLE PANEL AFTER IT HAS BEEN CONSTRUCTED IN NOT ACCEPTABLE.
   - INITIAL PLACEMENT OF REINFORCING BARS AND GROUTING OF CONCRETE MASONRY WALLS.
   - COMPLETION OF THE MAIN LATERAL FORCE RESISTING SYSTEM.
   - COMPLETION OF THE STRUCTURAL SYSTEM.
   - OTHER TIMES AS REQUIRED DUE TO FIELD CONDITIONS OR SPECIAL CONSTRUCTION TYPES.
2. THE REGISTERED DESIGN PROFESSIONAL MAY VISIT THE SITE AT TIME OTHER THAN THOSE LISTED IN NOTE 1.
3. THE REGISTERED DESIGN PROFESSIONAL WILL PREPARE A FIELD OBSERVATION REPORT FOR EACH SITE VISIT MADE TO OBSERVE CONSTRUCTION. PART II OF EACH REPORT IS FOR CONTRACTOR VERIFICATION AND IS MANDATORY. PART II AND MUST BE COMPLETED (SIGNED BY THE CONTRACTOR VERIFYING THAT THE REQUIRED ACTION WAS TAKEN AND LISTING THE DATE COMPLETED) AND RETURNED TO THE ENGINEER IN A TIMELY MANNER.

SPECIAL INSPECTION NOTES

1. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THIS PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS AS NECESSARY IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE BCNYS.
2. THE REGISTERED DESIGN PROFESSIONAL HAS PREPARED A STATEMENT OF SPECIAL INSPECTIONS, WHICH INCLUDES SPECIFICATION 014533, AND THE SCHEDULE OF SPECIAL INSPECTIONS. THESE DOCUMENTS WILL BE SUBMITTED WITH THE CONTRACT DOCUMENTS AND THE APPLICATION FOR BUILDING PERMIT TO THE CODE ENFORCEMENT OFFICIAL.
3. SPECIAL INSPECTIONS AND TESTING SHALL BE CONTINUOUS OR PERIODIC DURING PERFORMANCE OF THE WORK, AS NOTED.
4. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE REGISTERED DESIGN PROFESSIONAL, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUB-CONTRACTORS TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE.
5. THE SPECIAL INSPECTOR SHALL SUBMIT INTERIM REPORTS AND, AT THE COMPLETION OF SPECIAL INSPECTIONS, A FINAL STATEMENT OF SPECIAL INSPECTIONS. REPORTS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.
6. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF DISCREPANCIES. SUBSEQUENT REPORTS SHALL NOTE WHEN AND HOW DEFICIENCIES WERE CORRECTED. THE SPECIAL INSPECTOR SHALL NOTIFY THE REGISTERED DESIGN PROFESSIONAL AND THE CODE ENFORCEMENT OFFICIAL OF DISCREPANCIES WHICH HAVE NOT BEEN CORRECTED.
7. THE CONTRACTOR SHALL COOPERATE WITH THE SPECIAL INSPECTOR INCLUDING ADVANCE NOTIFICATION OF REQUIRED INSPECTION OR TEST, INCIDENTAL LABOR OR SAFE ACCESS TO THE WORK AREAS, AND ACCESS TO CONTRACT DOCUMENTS SO THAT INSPECTIONS AND TESTING MAY BE PERFORMED WITHOUT HINDRANCE.
8. THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.
9. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

STATE OF NEW YORK
CHRISTOPHER A. TESTA
071148
LICENSED PROFESSIONAL ENGINEER

No	Date	Revison	By
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Drawn By:	SJW
Checked By:	CAL
BDS Proj. #:	21-01
Date:	June 3, 2022

Sheet Title
GENERAL NOTES CONTINUED

Sheet No.
S002

CONSTRUCTION DOCUMENTS
12697

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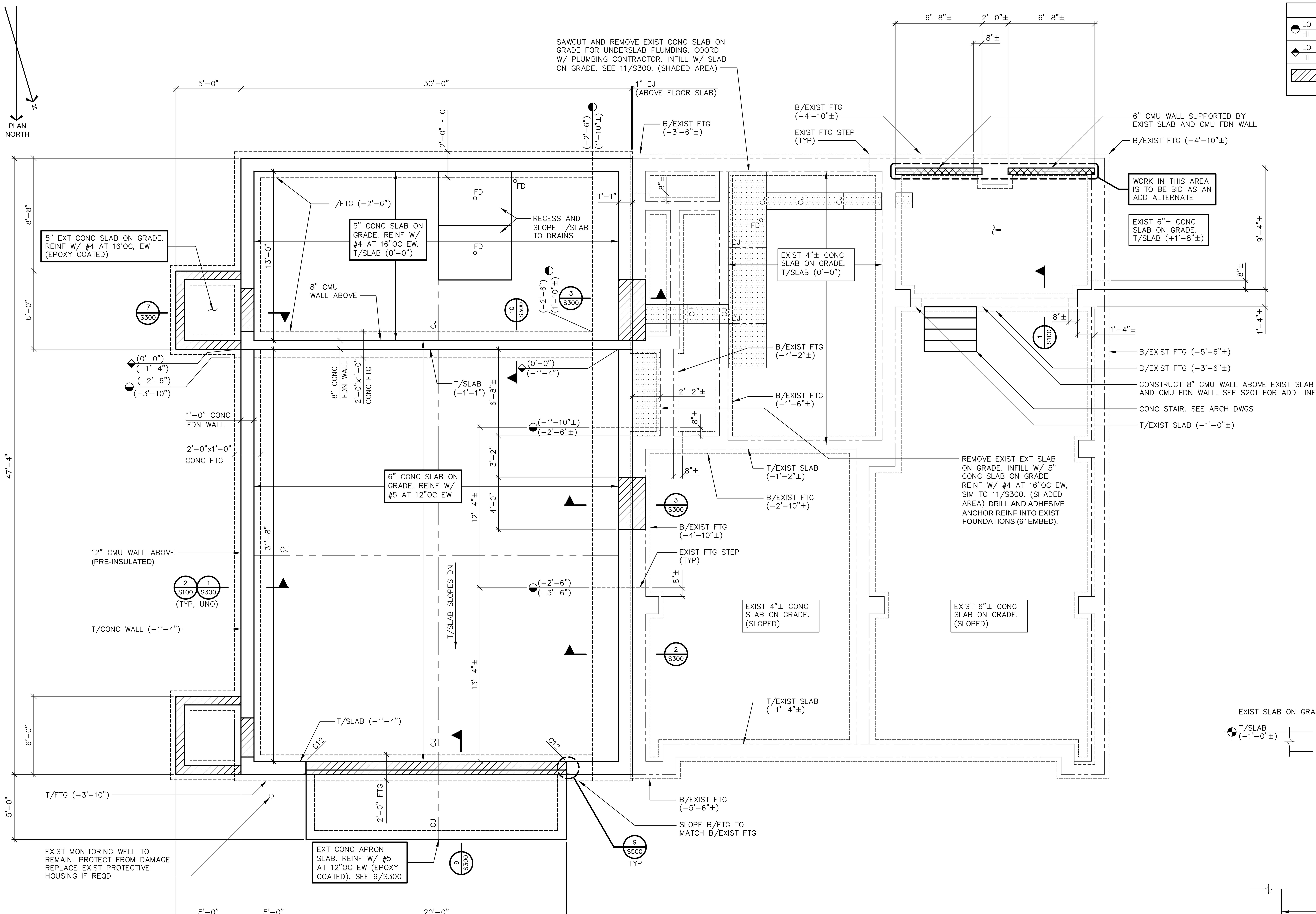
FILE LOCATION: F:\SHARE\12\12612697\DWGS\S002.dwg

FOUNDATION LEGEND	
LO / HI (footing step symbol)	– INDICATES FOOTING STEP LOCATION AND T/FOOTING ELEVATION. SEE 6/S300.
LO / HI (wall step symbol)	– INDICATES T/WALL STEP LOCATION AND ELEVATION.
(hatched)	– INDICATES SLAB OVERPOURS WALL. T/WALL IS 8 INCHES BELOW T/SLAB TYPICAL, UNLESS NOTED OTHERWISE. SEE FOUNDATION DETAILS AND COORDINATE WITH ARCHITECTURAL DRAWINGS.

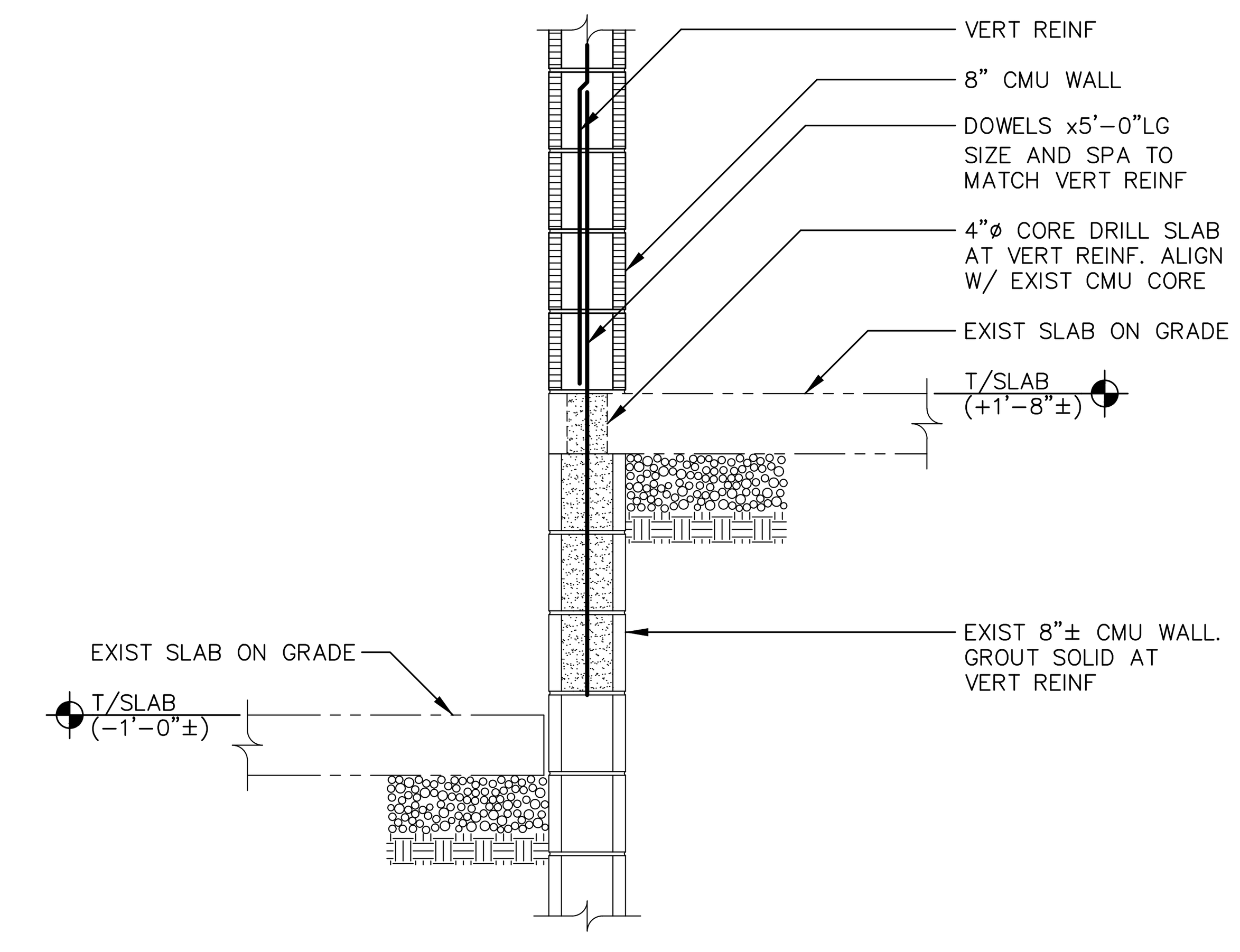


FOUNDATION PLAN

SCALE: 1/4" = 1'–0"

NOTES:

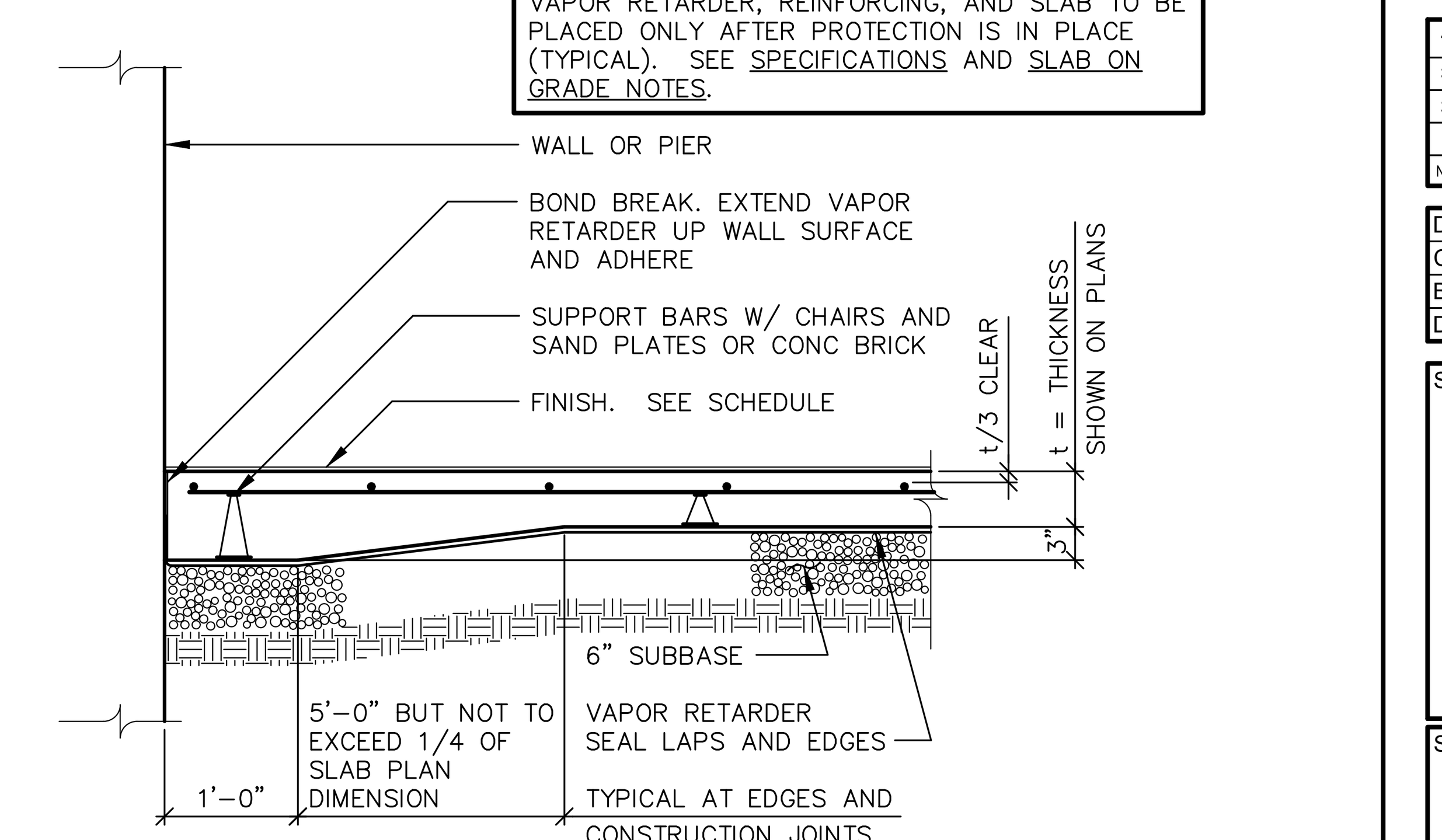
1. EXISTING T/SLAB ELEVATION (105.50') EQUALS REFERENCE ELEVATION (0'–0").
2. ELEVATIONS NOTED THUS ( ) ARE WITH RESPECT TO (0'–0").
3. SEE PLAN FOR FOOTING ELEVATIONS. ELEVATIONS ARE TO T/FOOTING UNLESS NOTED OTHERWISE.
4. T/WALL ELEVATION (0'–0") TYPICAL, UNLESS NOTED OTHERWISE.
5. FD__ – INDICATES FLOOR DRAIN. COORDINATE LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. WCJ – INDICATES WALL CONTROL OR CONSTRUCTION JOINT LOCATION; ALIGN WITH MASONRY WALL CONTROL JOINTS. SEE 8/S300. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND S200.
7. SEE 5/S300 FOR WALL REINFORCING AT CORNERS AND INTERSECTIONS.
8. SEE 4/S300 FOR SLAB–ON–GRADE CONTRACTION JOINTS.
9. DRILL AND ADHESIVE ANCHOR WALL AND FOOTING REINFORCING 6" INTO EXISTING FOUNDATIONS (TYPICAL, UNLESS NOTED OTHERWISE, FOR ALL LOCATIONS WHERE NEW FOUNDATIONS INTERFACE WITH EXISTING).
10. SLEEVE OPENINGS THROUGH WALLS AND SLABS AT PIPING AND CONDUIT; DO NOT CORE. COORDINATE SLEEVE SIZES, QUANTITIES, AND LOCATIONS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. NOT ALL LOCATIONS ARE SHOWN ON THE STRUCTURAL DRAWINGS.
11. PROVIDE (1) #4x4'–0" LONG DIAGONAL BAR AT CORNERS AND OPENINGS IN SLAB ON GRADE.
12. SEE S001 AND S002 FOR ADDITIONAL NOTES.



1 SECTION AT WALL (S100)

SCALE: 3/4" = 1'–0"

VAPOR RETARDER, REINFORCING, AND SLAB TO BE PLACED ONLY AFTER PROTECTION IS IN PLACE (TYPICAL). SEE SPECIFICATIONS AND SLAB ON GRADE NOTES.



2 SLAB ON GRADE TYPICAL EDGE SECTION (S100)

SCALE: 3/4" = 1'–0"

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Project Title

VILLAGE/TOWN OF MOUNT KISCO WATER DEPARTMENT BUILDING ADDITION 43 COLUMBUS AVE, MOUNT KISCO, NY 10549

STATE OF NEW YORK – CHRISTOPHER A. LE... – 074148 – PROFESSIONAL ENGINEER

No	Date	Revision	By
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2			
1			

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Sheet Title

FOUNDATION PLAN

Sheet No.

S100

CONSTRUCTION DOCUMENTS

12697

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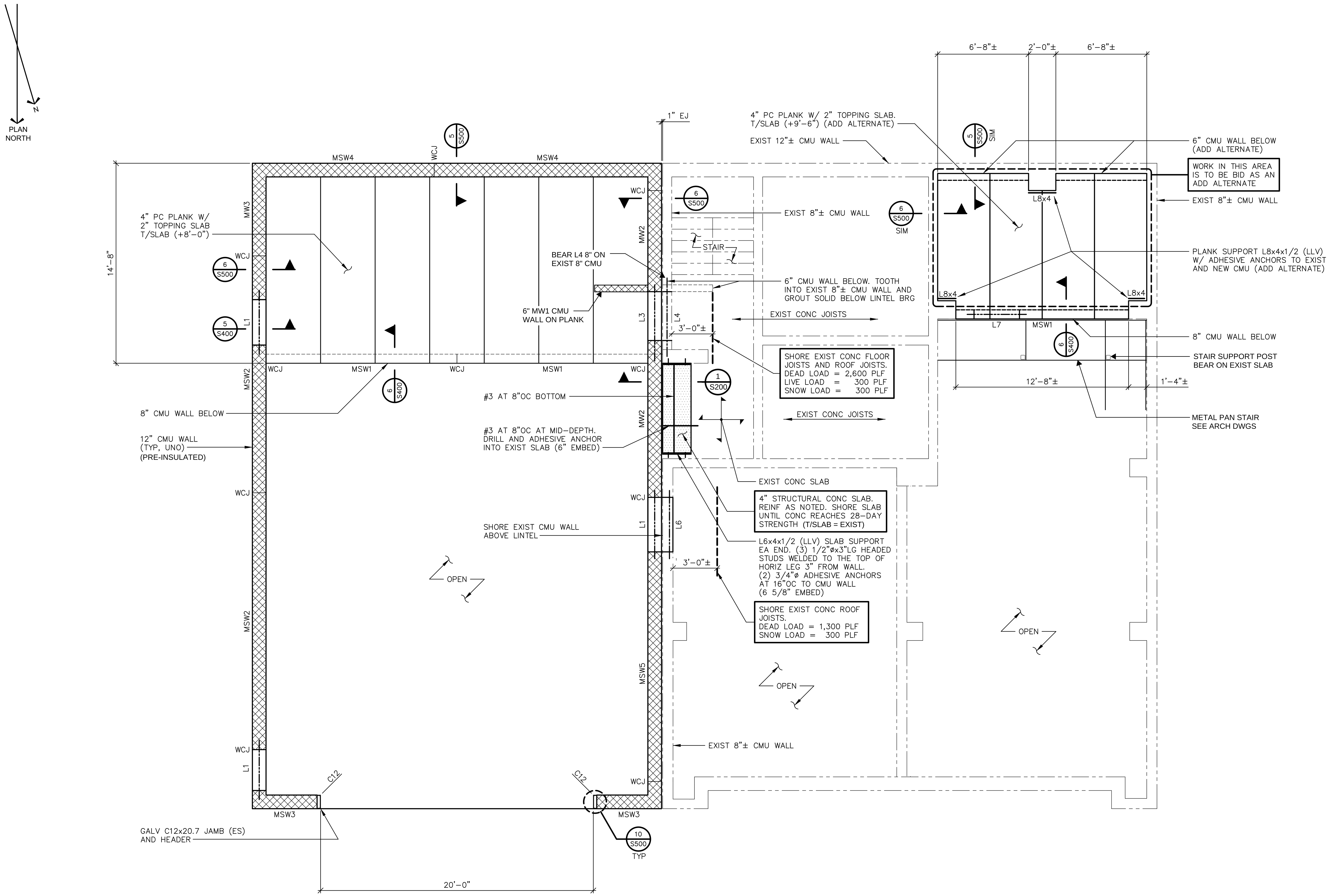
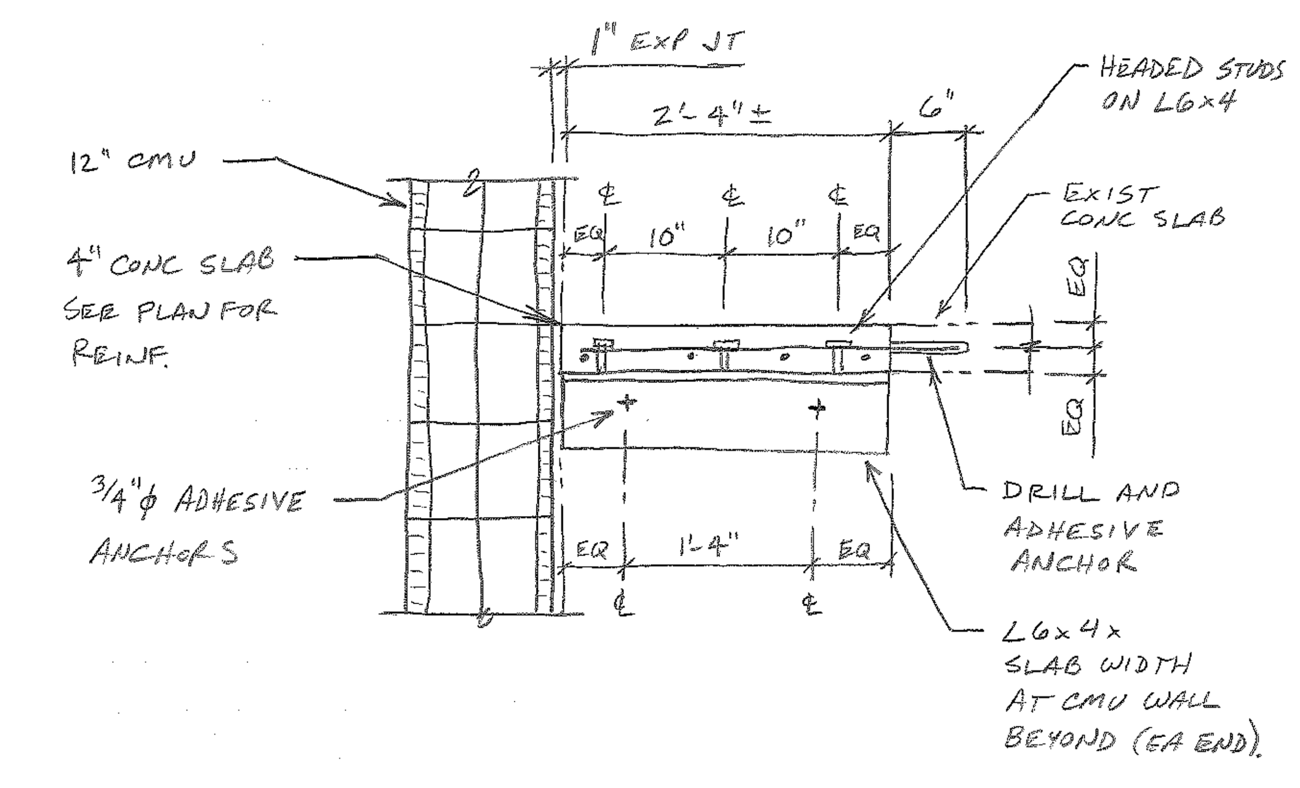


SECOND FLOOR FRAMING PLAN

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

NOTES:

1. T/SLAB ELEVATION (+8'-0"±) TO MATCH T/EXISTING FLOOR UNLESS NOTED OTHERWISE. FIELD VERIFY.
2. ELEVATIONS NOTED ( ) ARE TO T/STEEL (B/DECK) WITH RESPECT TO ELEVATION (0'-0").
3. SEE S400 FOR LINTEL SCHEDULE AND NOTES. NOT ALL LINTELS IN WALLS ARE SHOWN. LINTELS SHOWN ARE FOR OPENINGS BELOW SECOND FLOOR.
4. SEE 1/S400 FOR MASONRY WALL REINFORCING REQUIREMENTS.
5. SEE S001 AND S002 FOR ADDITIONAL NOTES.



1 S200 SECTION AT FLOOR

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

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Project Title

VILLAGE/TOWN OF MOUNT KISCO WATER DEPARTMENT BUILDING ADDITION

43 COLUMBUS AVE, MOUNT KISCO, NY 10549

No	Date	Revision	By
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Date:	June 3, 2022

Sheet Title

SECOND FLOOR FRAMING PLAN

Sheet No.

S200

CONSTRUCTION DOCUMENTS

12697

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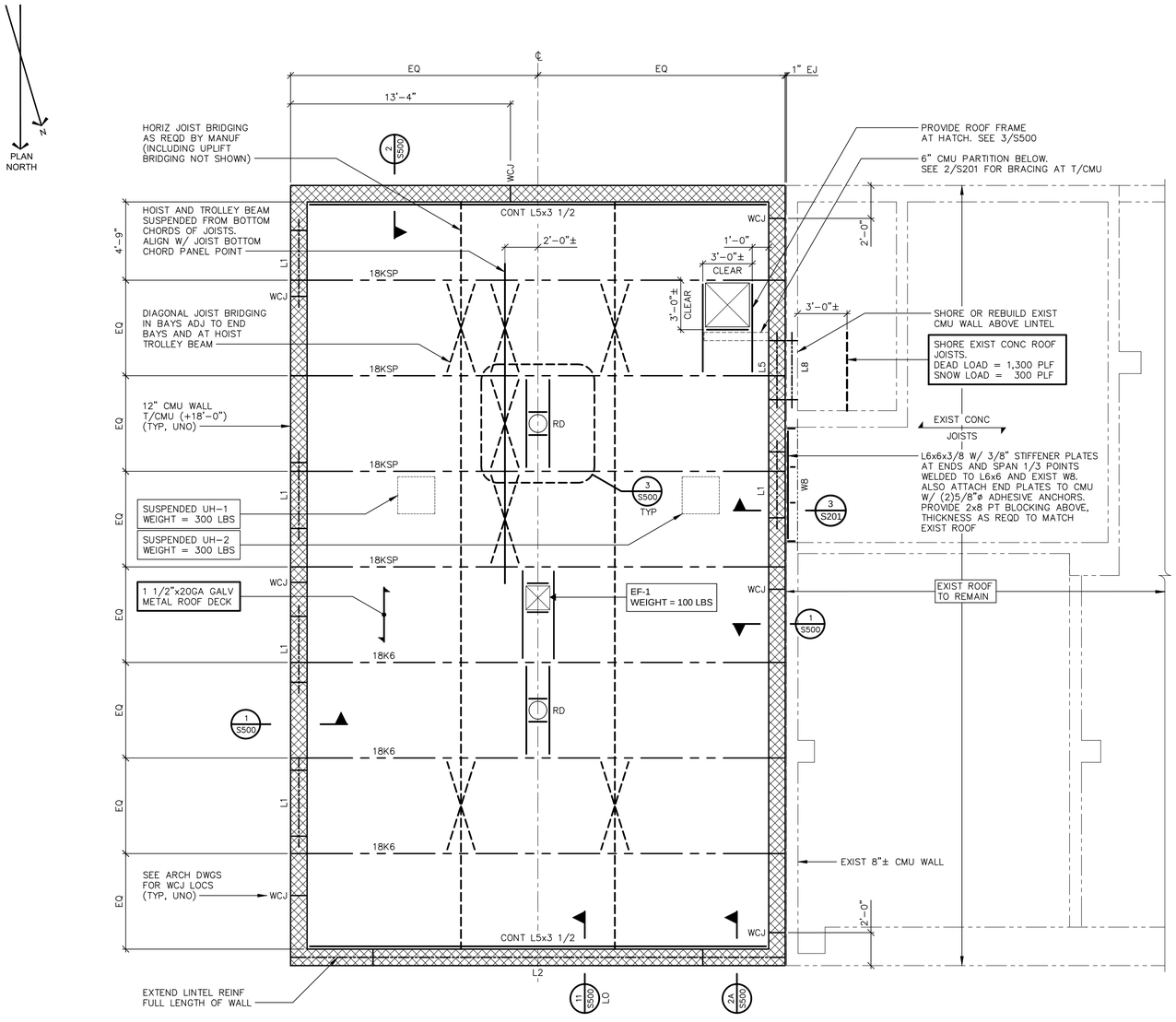
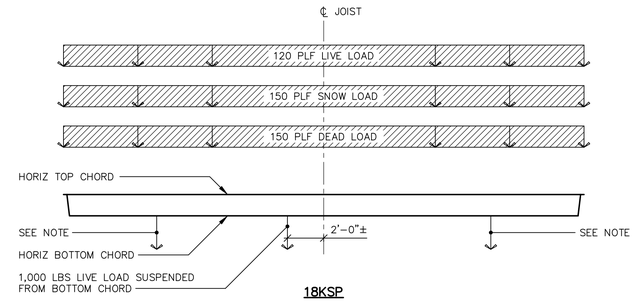


ROOF FRAMING PLAN

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

NOTES:

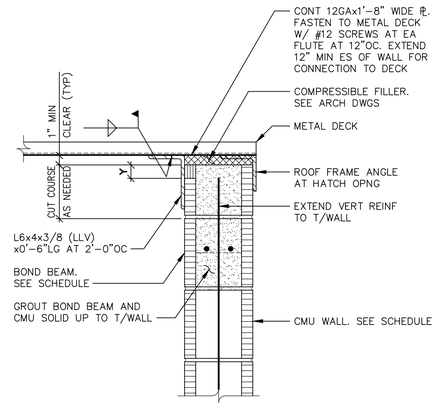
1. T/STEEL (B/DECK) ELEVATION (+16'-3") ABOVE REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE.
2. ELEVATIONS NOTED ( ) ARE TO T/STEEL (B/DECK) WITH RESPECT TO ELEVATION (0'-0").
3. EQUALLY SPACE ROOF JOISTS BETWEEN WALLS UNLESS NOTED OTHERWISE.
4. K-SERIES JOISTS HAVE A 2 1/2-INCH SEAT DEPTH UNLESS NOTED OTHERWISE. SEE 1/S201 FOR 18KSP SCHEMATIC LOADING DIAGRAM.
5. EOD – INDICATES EDGE OF DECK.
6. SEE S400 AND S002 FOR LINTEL SCHEDULE AND NOTES. NOT ALL LINTELS IN WALLS ARE SHOWN. LINTELS SHOWN ARE FOR OPENINGS BELOW ROOF.
7. SEE 1/S400 FOR MASONRY WALL REINFORCING REQUIREMENTS.
8. RD – INDICATES ROOF DRAIN, EF – INDICATES EXHAUST FAN, RV – INDICATES ROOF VENT. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE ROOF OPENING ANGLE FRAME AT ROOF DRAINS AND OTHER OPENINGS WIDER THAN 12 INCHES. SEE 3/S500. REFER TO THE SPECIFICATIONS FOR DECK REINFORCEMENT AT OPENINGS NOT SUPPORTED BY STEEL FRAMING.
9. NOTIFY ENGINEER IF ACTUAL WEIGHTS OF MEP EQUIPMENT EXCEED WEIGHTS NOTED IN DRAWINGS. CONTRACTOR SHALL SUBMIT LOAD DATA TO ENGINEER FOR REVIEW PRIOR TO PROCEEDING WITH INSTALLATION OF EQUIPMENT AND ANY ASSOCIATED STRUCTURAL SUPPORTS. COORDINATE EXACT LOCATIONS OF EQUIPMENT (INCLUDING HOUSEKEEPING PADS, RAILS, STRUCTURAL FRAMING, ETC.) WITH MECHANICAL DRAWINGS AND EQUIPMENT SUPPLIERS.
10. SEE S001 AND S002 FOR ADDITIONAL NOTES.



1 S201 JOIST SCHEMATIC DIAGRAM

NOT TO SCALE

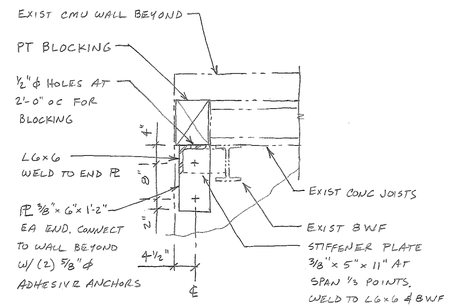
NOTE:
SEE PLAN FOR EQUIPMENT TO BE SUSPENDED FROM BOTTOM CHORDS. WEIGHT AND LOCATIONS ARE APPROXIMATE. COORDINATE ACTUAL WEIGHT AND LOCATIONS WITH MECHANICAL CONTRACTOR.



2 S201 DETAIL AT TOP OF CMU WALL

NOT TO SCALE

NOTE:
Y (SHADED ▨) INDICATES NOTCH FACE SHELL (4" MAXIMUM) AS REQUIRED FOR GROUTING. FILL SOLID WITH MORTAR ABOVE GROUT TO TOP OF CMU.



3 S201 SECTION AT ROOF

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

NOTE:
CMU OF ADDITION IS NOT SHOWN.

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Project Title
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WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

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Drawn By:	SJW
Checked By:	CAL
BDS Proj. #:	21-01
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Sheet Title
ROOF FRAMING PLAN

Sheet No.
S201

CONSTRUCTION DOCUMENTS

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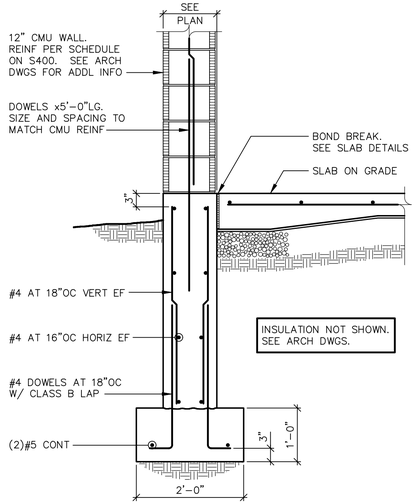
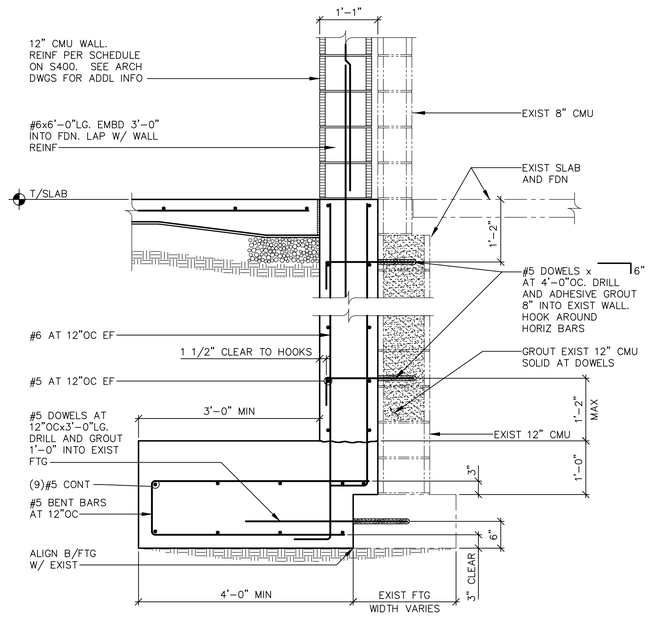


1 S300 FOUNDATION WALL SECTION

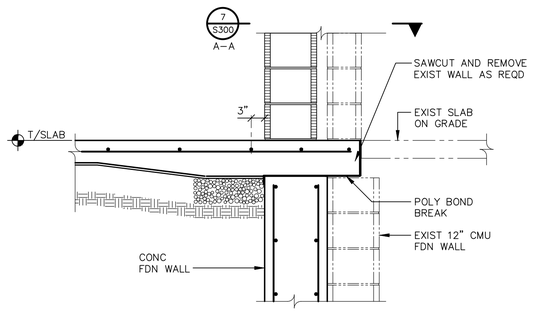
SCALE: 3/4" = 1'-0"



2 S300 SECTION AT EXISTING FOUNDATION WALL

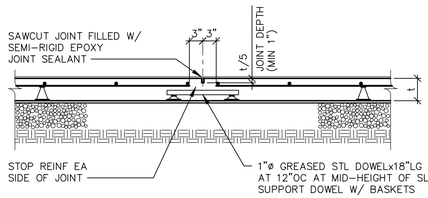
SCALE: 3/4" = 1'-0"

NOTE:
EXISTING FOOTING CONDITIONS MAY VARY AT DIFFERENT LOCATIONS. VERIFY IN FIELD.



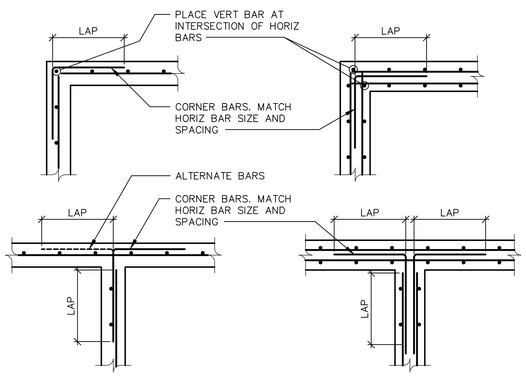
3 S300 SLAB OVERPOUR SECTION

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



4 S300 SLAB ON GRADE TYPICAL CONTRACTION JOINT

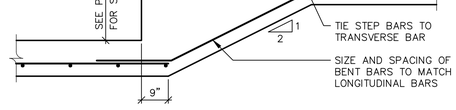
SCALE: 3/4" = 1'-0"



5 S300 TYPICAL WALL INTERSECTION REINFORCEMENT

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

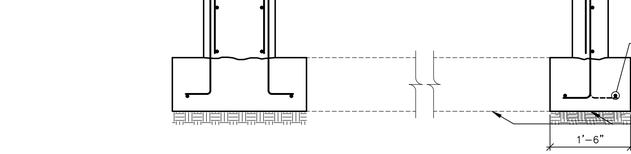
NOTE:
LAPS ARE CLASS B, BUT NOT LESS THAN 2'-0".



6 S300 TYPICAL FOOTING STEP DETAIL

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

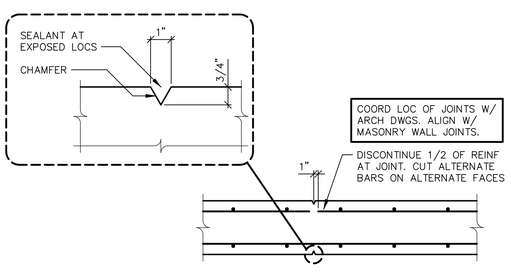
NOTE:
LAPS ARE CLASS B, BUT NOT LESS THAN 2'-0".



7 S300 TYPICAL SECTION AT DOOR WITH FROST WALLS

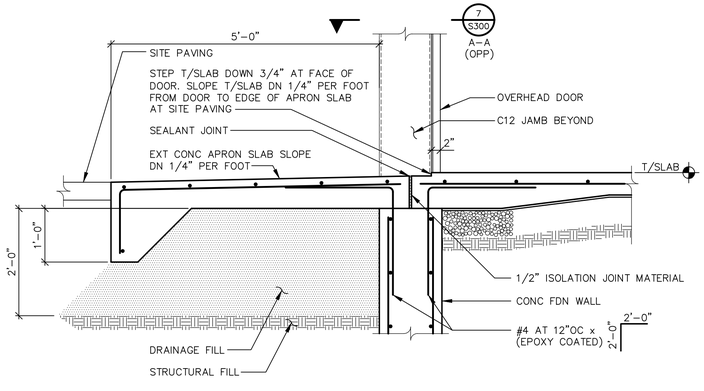
SCALE: 3/4" = 1'-0"

NOTES:
1. CONTRACTOR'S OPTION TO PLACE MAT FOOTING IN LIEU OF INDIVIDUAL WALL FOOTINGS. REINFORCE MAT WITH #5 AT 16"OC EACH WAY (BOTTOM) AND PROVIDE DRAIN HOLE AT CENTER OF MAT (6"ø OR 6" SQUARE).
2. REINFORCE EXTERIOR SLABS WITH #4 AT 16"OC, EACH WAY, EPOXY-COATED,



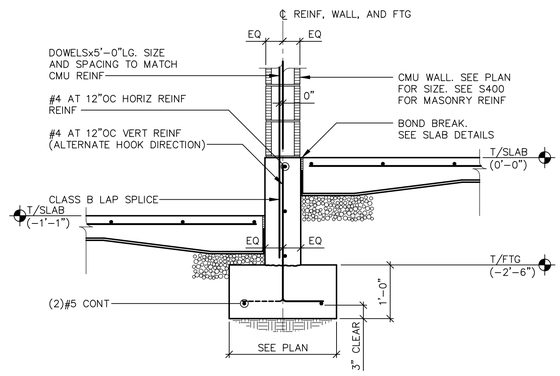
8 S300 WALL CONTROL JOINT

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



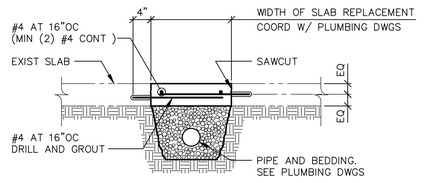
9 S300 SLAB OVERPOUR SECTION AT OVERHEAD DOOR

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



10 S300 SECTION AT FOUNDATION WALL

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



11 S300 SLAB SECTION AT PIPE

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

NOTES:
1. DO NOT UNDERMINE EXISTING SLAB.
2. PROVIDE CONTROL JOINTS AT 15'-0" ON CENTER MAXIMUM ALONG THE LENGTH OF SLAB REPLACEMENT.

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Sheet Title
FOUNDATION DETAILS

Sheet No.
S300

CONSTRUCTION DOCUMENTS
12697

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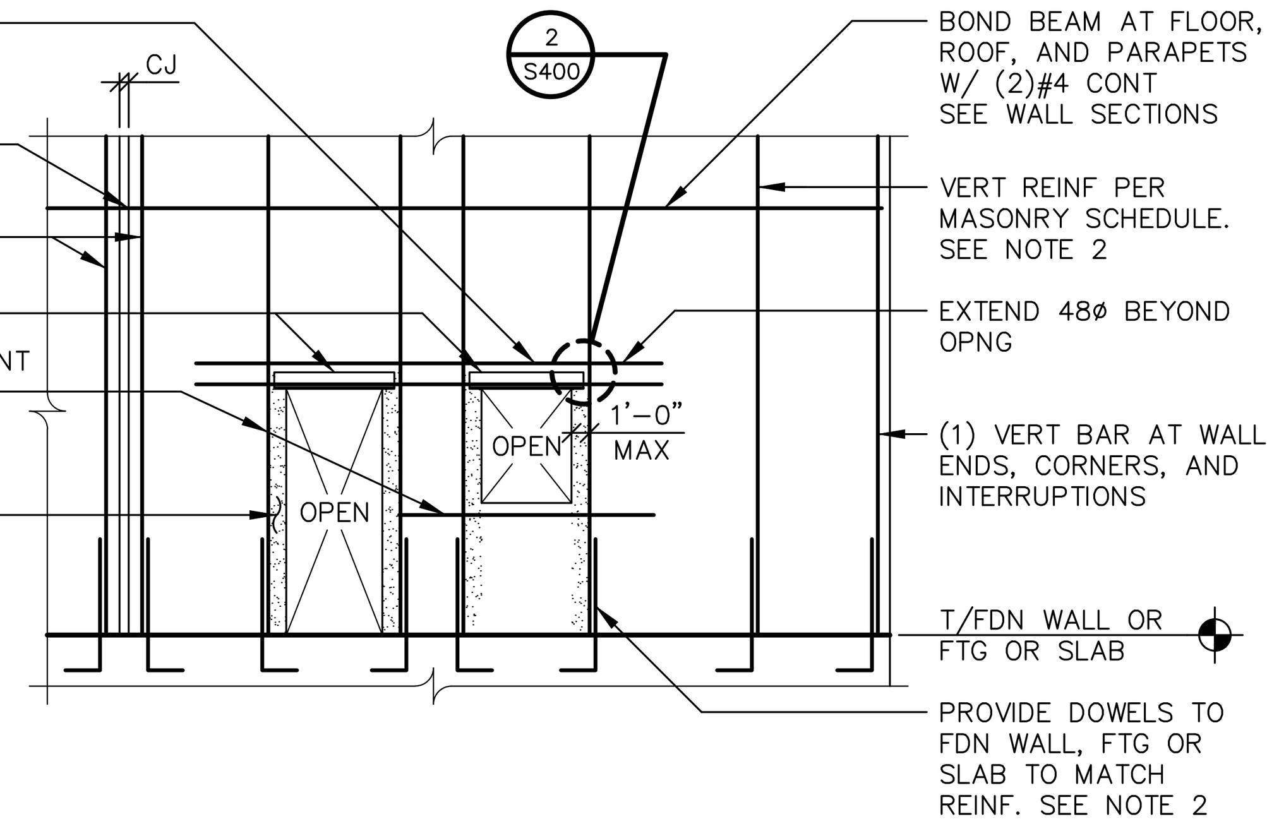
MASONRY WALL REINFORCING SCHEDULE

MARK	NOMINAL CMU THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	ADDITIONAL REINFORCING AT 8"OC AT EACH END OF WALL	REMARKS
MW1	6"	#4 AT 48"OC	JOINT REINFORCING	NOT APPLICABLE	
MW2	12"	#5 AT 32"OC	JOINT REINFORCING	NOT APPLICABLE	
MW3	12"	#5 AT 32"OC	JOINT REINFORCING	NOT APPLICABLE	INSULATED CMU
MSW1	8"	#4 AT 48"OC	JOINT REINFORCING	NOT APPLICABLE	
MSW2	12"	#6 AT 16"OC	JOINT REINFORCING	(2)#6	INSULATED CMU
MSW3	12"	#6 AT 16"OC	JOINT REINFORCING	(2)#6	INSULATED CMU
MSW4	12"	#5 AT 32"OC	JOINT REINFORCING	NOT APPLICABLE	INSULATED CMU
MSW5	12"	#5 AT 32"OC	JOINT REINFORCING	NOT APPLICABLE	

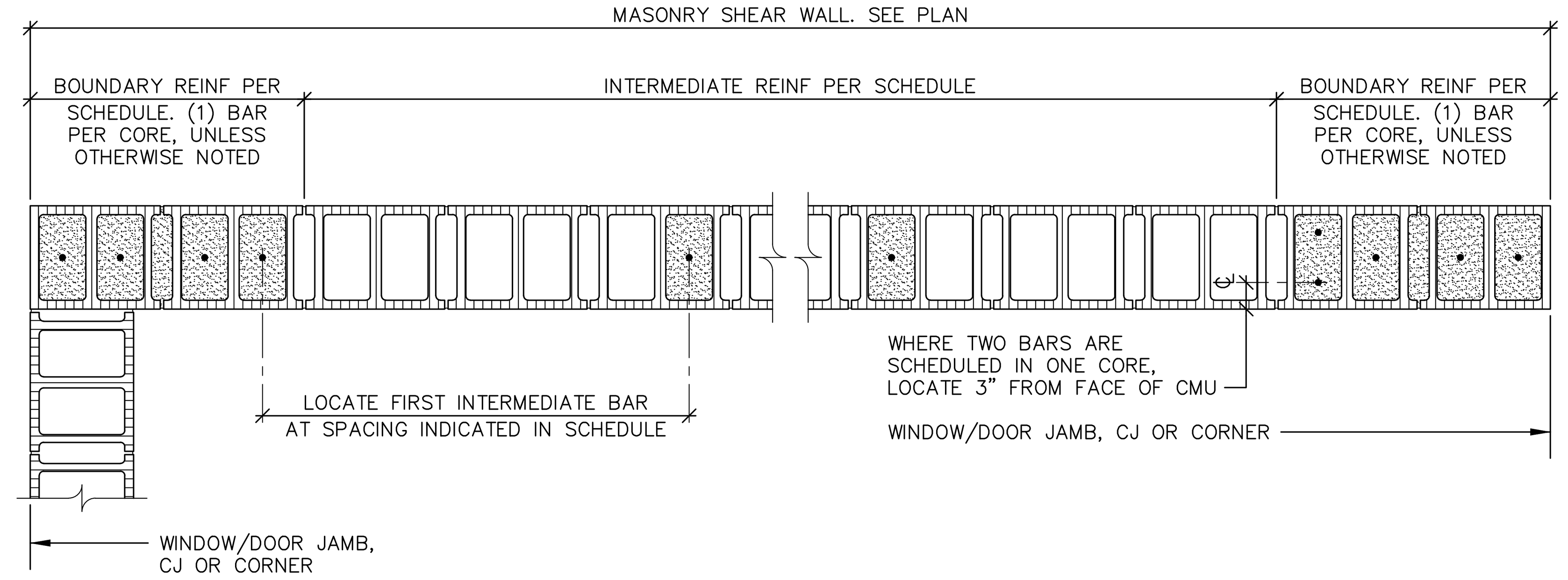
NOTES:
1. MSW__ – INDICATES MASONRY SHEAR WALL. SEE 11/S400 FOR TYPICAL PLAN DETAIL.
2. OPENINGS ARE NOT PERMITTED IN SHEAR WALLS EXCEPT WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
3. SEE 1/S400 FOR ADDITIONAL INFORMATION.



1 S400 MASONRY WALL REINFORCING ELEVATION

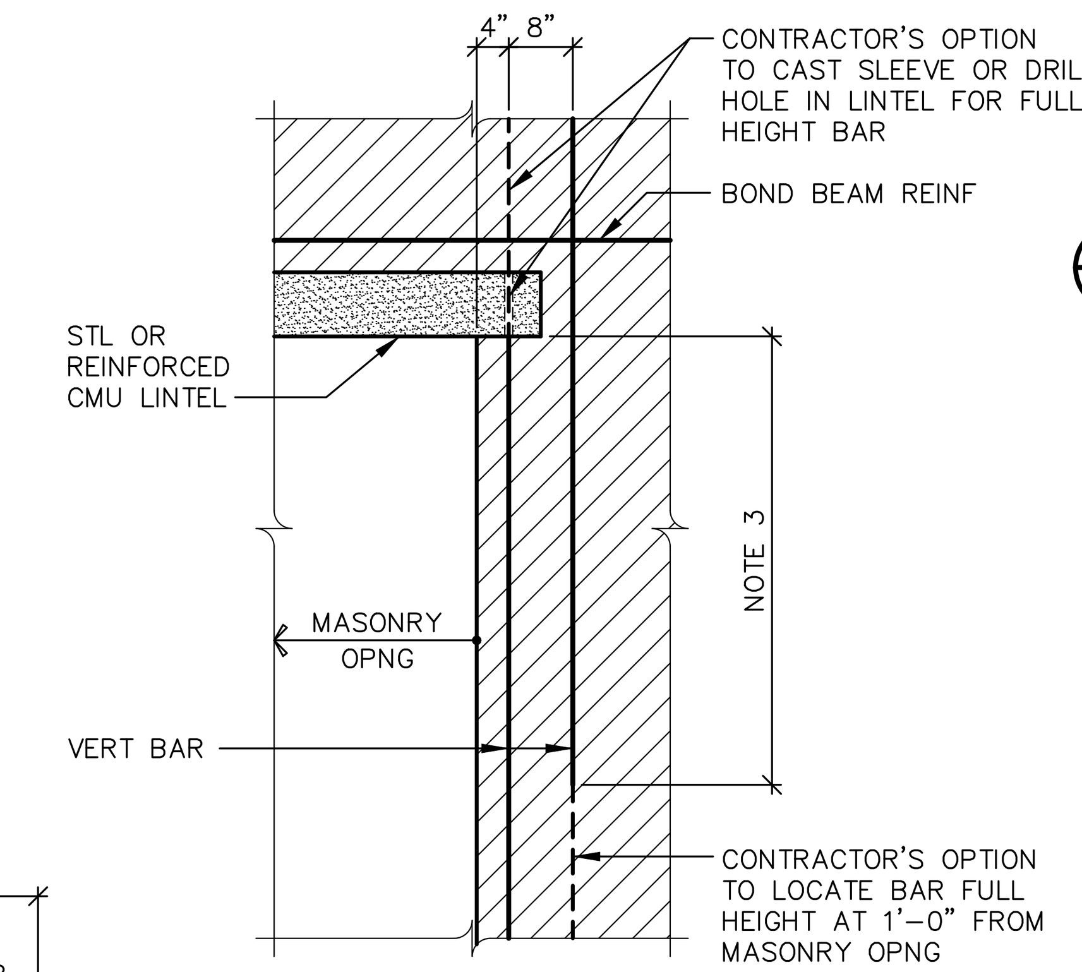
NOT TO SCALE

NOTES:
1. REINFORCING SHOWN IS TYPICAL UNLESS NOTED.
2. LAP REINFORCING BARS AS INDICATED IN THE MASONRY NOTES ON S002.
3. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16"OC AND AT TOP TWO COURSES UNLESS NOTED OTHERWISE.
4. AT INTERIOR, NON–LOAD BEARING PARTITIONS, TOP OF PARTITION SHALL BE 1" MINIMUM BELOW FRAMING MEMBERS, SLABS, PLANK, OR DECK TO ALLOW FOR DEFLECTION OF STRUCTURE ABOVE. BRACE TOP OF PARTITION AS SHOWN IN 8/S500.
5. OPENINGS ARE NOT PERMITTED IN SHEAR WALLS EXCEPT WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
6. PROVIDE INSULATED CMU WHERE INDICATED AND GROUT SOLID. SEE 10/S400 FOR PLAN DETAIL AT REINFORCING. OTHER DETAILS SHOW STANDARD CMU; ADJUST AS REQUIRED TO ACCOMMODATE INSULATED CMU. NOTIFY RDP OF DISCREPANCIES WITH INSULATED CMU.



1A S400 PLAN DETAIL – MASONRY SHEAR WALL

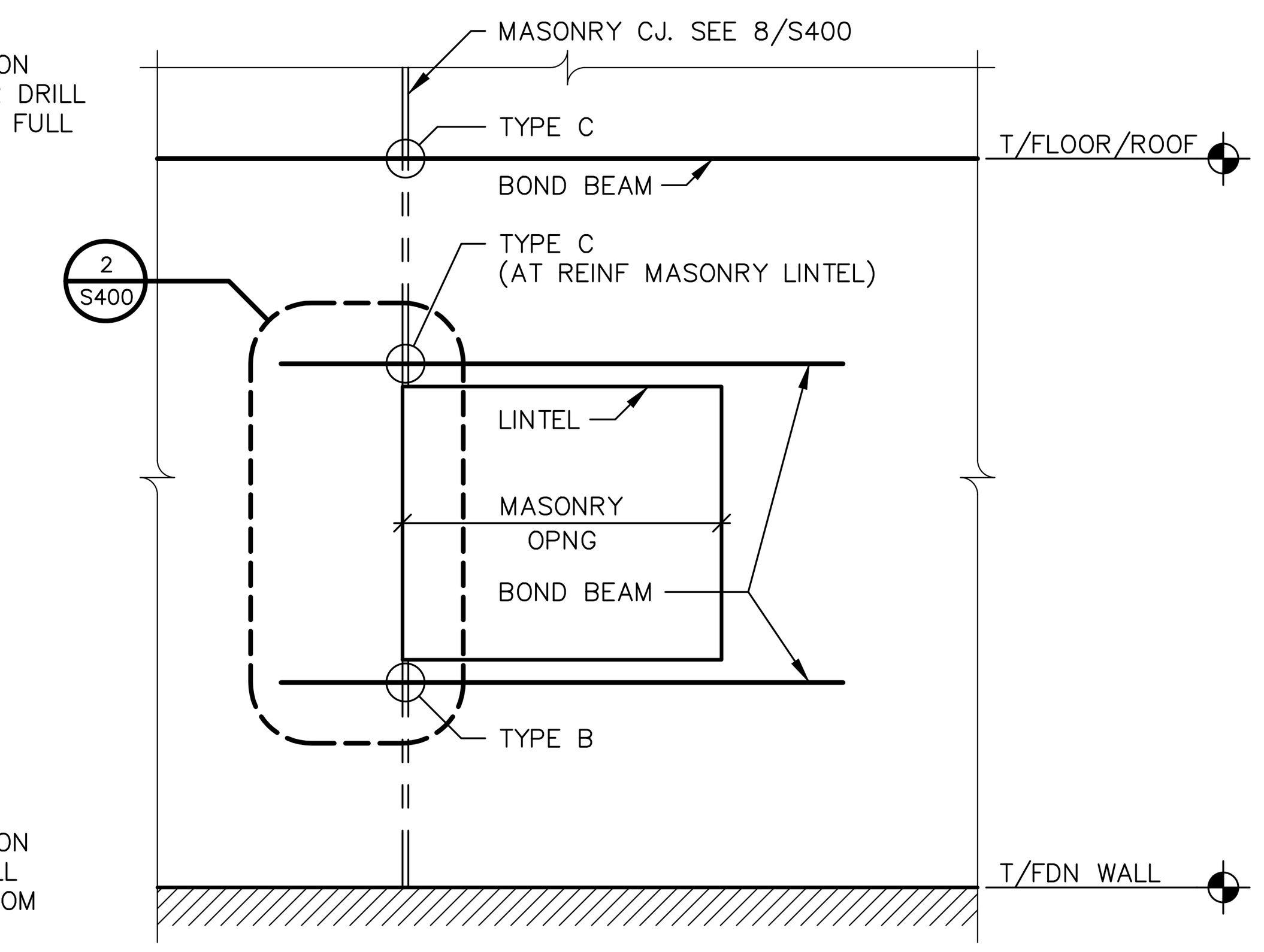
SCALE: 3/4" = 1'–0"



2 S400 WALL REINFORCING ELEVATION AT OPENING

NOT TO SCALE

NOTES:
1. TERM "FULL HEIGHT" REFERS TO A SINGLE CORE REINFORCED FULL HEIGHT. BARS MAY BE LAPPED.
2. USE FULL HEIGHT BAR THROUGH LINTEL BEARING AT REINFORCED CMU LINTEL.
3. LAP LENGTH SHALL BE THE LAP LENGTH INDICATED IN THE MASONRY NOTES ON S002 + 8 INCHES.
4. SEE 3/S400 FOR ELEVATION OF OPENING AT CONTROL JOINT.



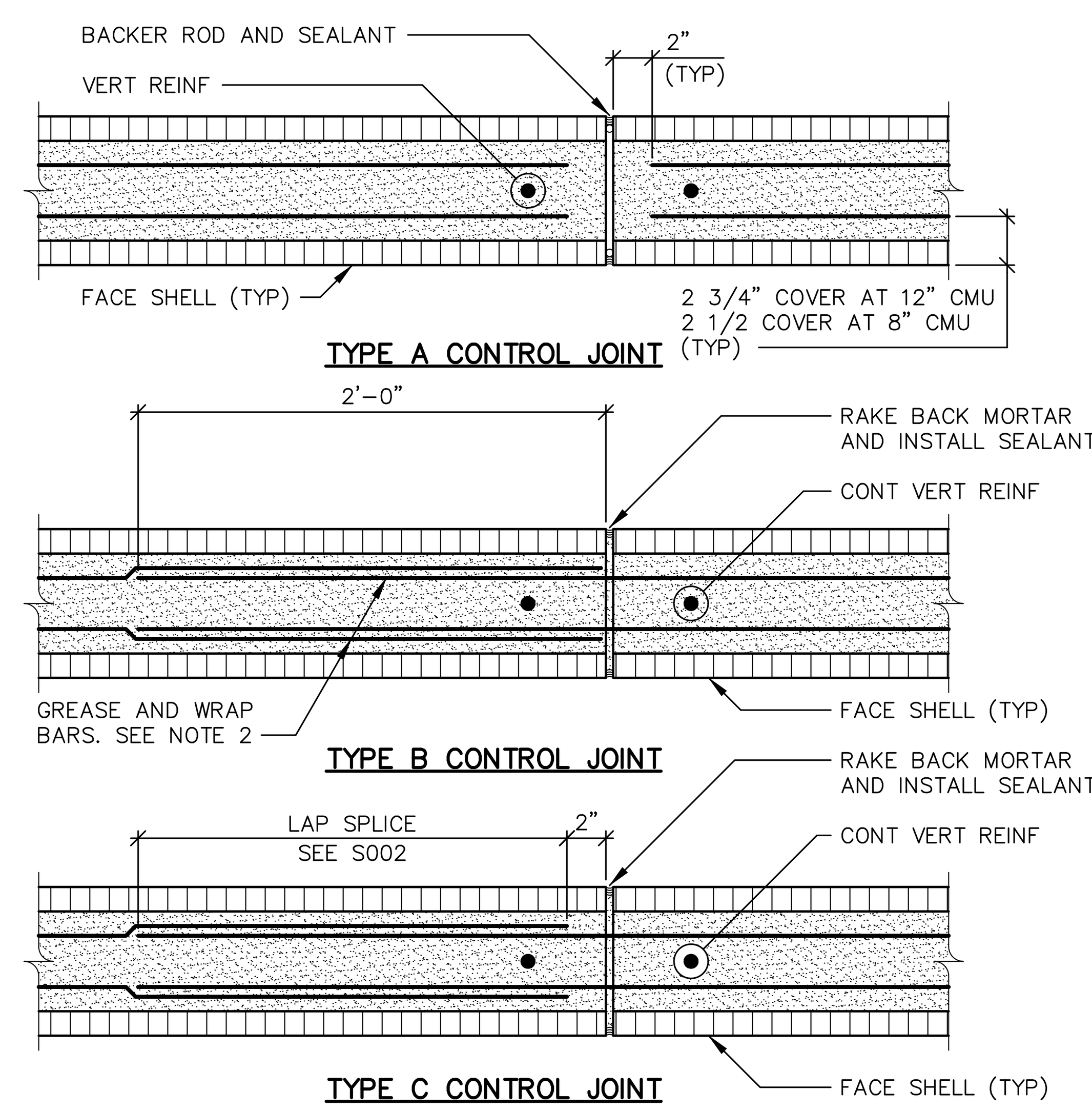
3 S400 WALL ELEVATION OF CONTROL JOINT AT BOND BEAM

NOT TO SCALE

NOTES:
1. SEE 7/S400 FOR DETAILS OF TYPE A, B, AND C CONTROL JOINTS AT BOND BEAMS.
2. SEE 1/S400 MASONRY WALL REINFORCING ELEVATION FOR ADDITIONAL INFORMATION.
3. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16"OC AND AT TOP TWO COURSES UNLESS NOTED OTHERWISE.

LINTEL SCHEDULE

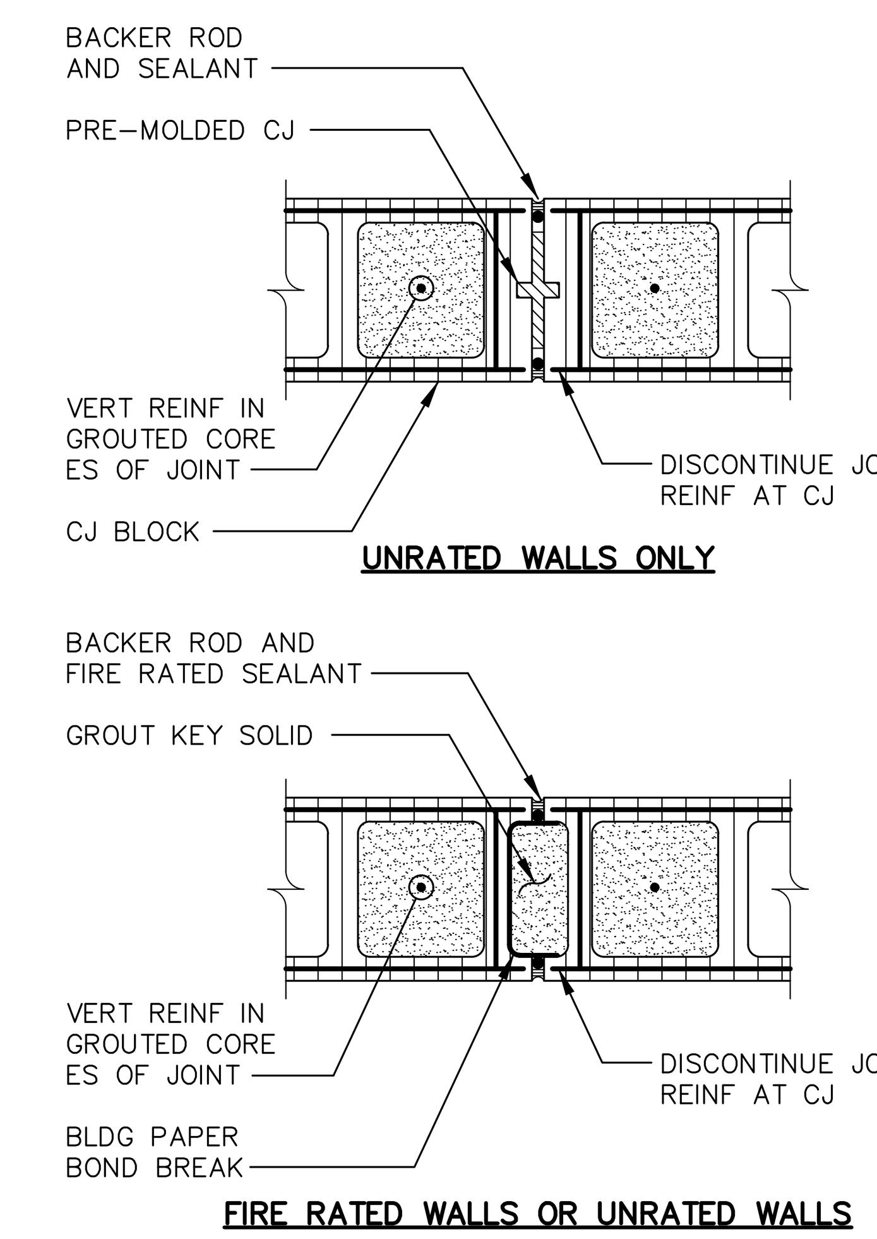
MARK	MATERIAL	MO	REINFORCING	REMARKS
L1	12"x16" CMU	UP TO 4'–0"	(2)#5 TOP AND BOTTOM	SEE 5/S400
L2	12"x60" CMU	20'–6"	(2)#6 TOP AND BOTTOM	SEE 11/S500. CONT REINF FULL LENGTH OF WALL
L3	(2)L6x3 1/2x5/16 (LLH)	4'–8"	NOT APPLICABLE	⊥⊥
L4	(2) L5x3 1/2x5/16 (LLV)	4'– 10"	NOT APPLICABLE	⊥⊥
L5	HSS8x8x3/16 + PLATE 5/16x11 1/2	3'–7"	NOT APPLICABLE	□
L6	(2) L4x3 1/2x5/16 (LLV)	4'–0"	NOT APPLICABLE	⊥⊥
L7	(2) L4x3 1/2x5/16 (LLV)	3'–4"	NOT APPLICABLE	⊥⊥
L8	(2) L5x3 1/2x5/16 (LLV)	3'–7"	NOT APPLICABLE	⊥⊥



7 S400 CONTROL JOINTS AT BOND BEAMS

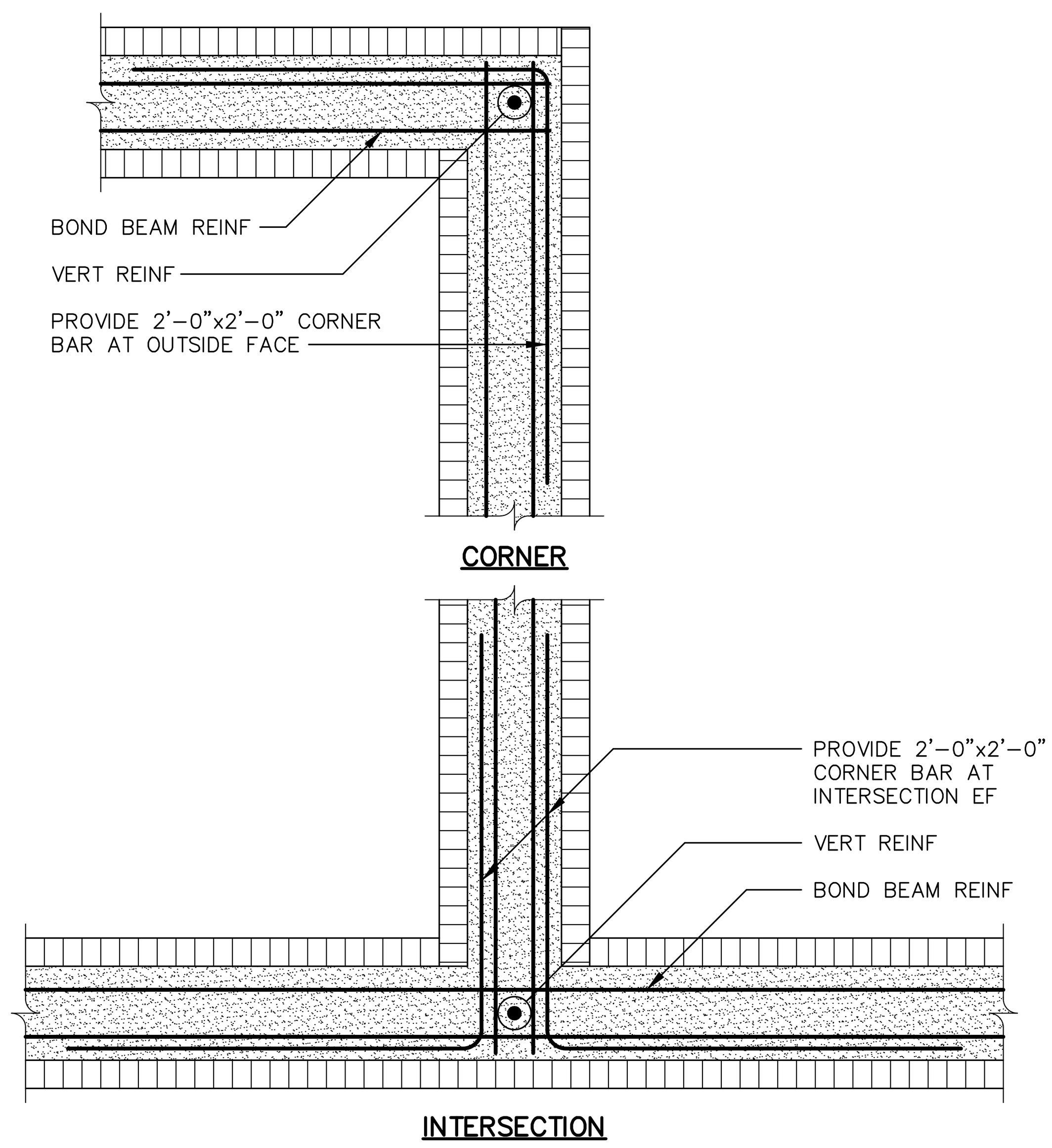
NOT TO SCALE

NOTES:
1. SEE 3/S400 FOR WALL ELEVATION OF CONTROL JOINT AT BOND BEAM.
2. CONTRACTOR'S OPTION TO CAST PVC OR GALVANIZED STEEL CONDUIT SLEEVES INTO WALL IN LIEU OF "GREASE AND WRAP".



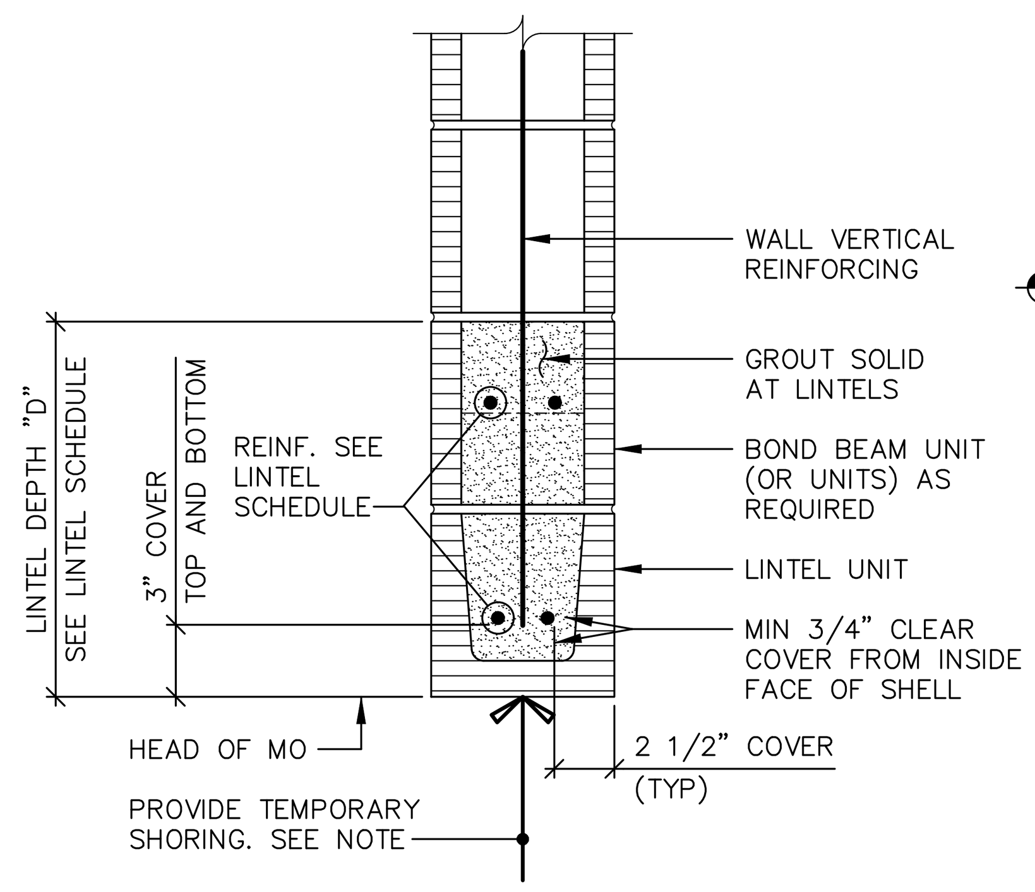
8 S400 WALL CONTROL JOINT

NOT TO SCALE



4 S400 BOND BEAM PLAN DETAILS

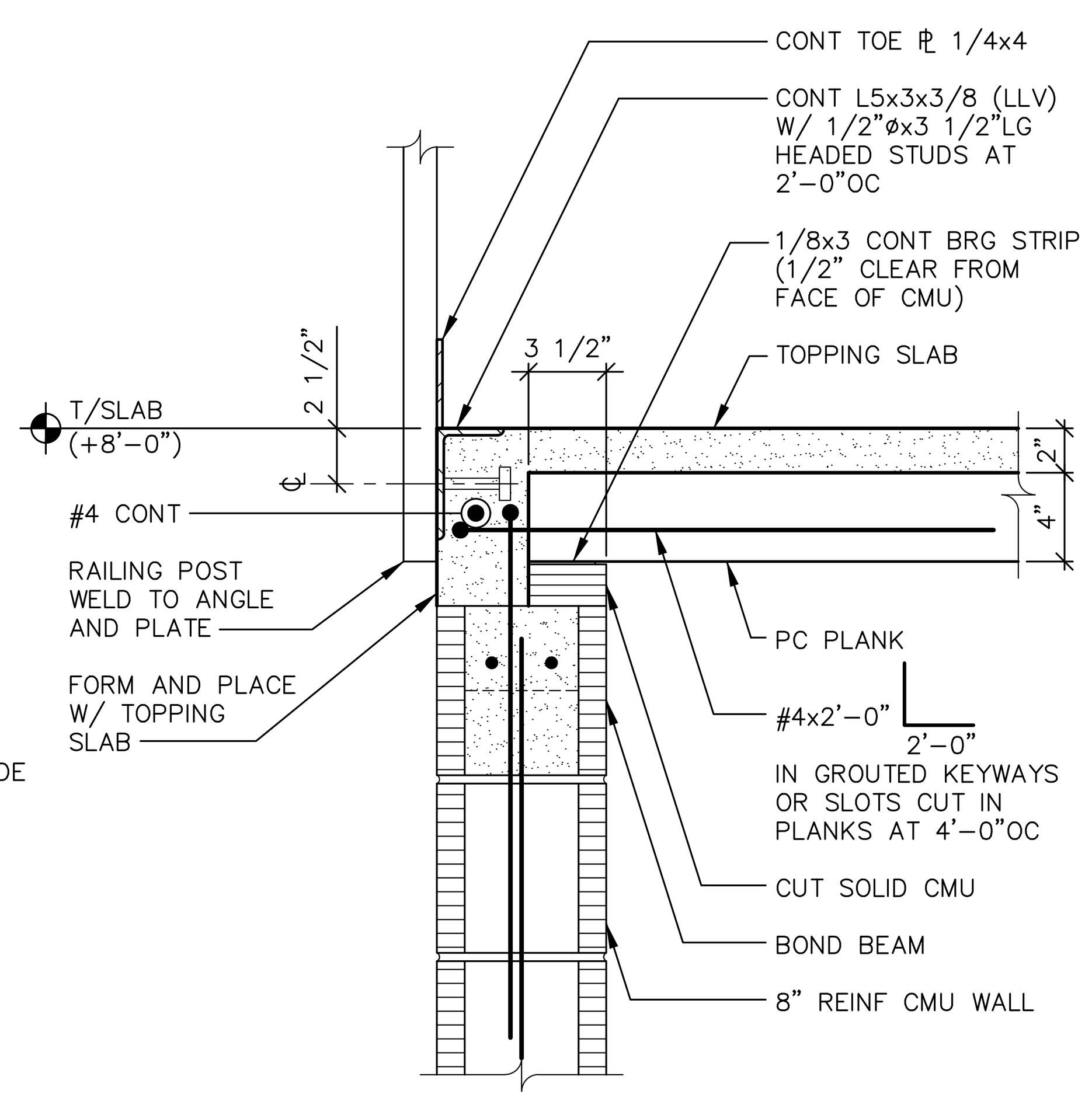
NOT TO SCALE



5 S400 SECTION – REINFORCED CMU LINTEL

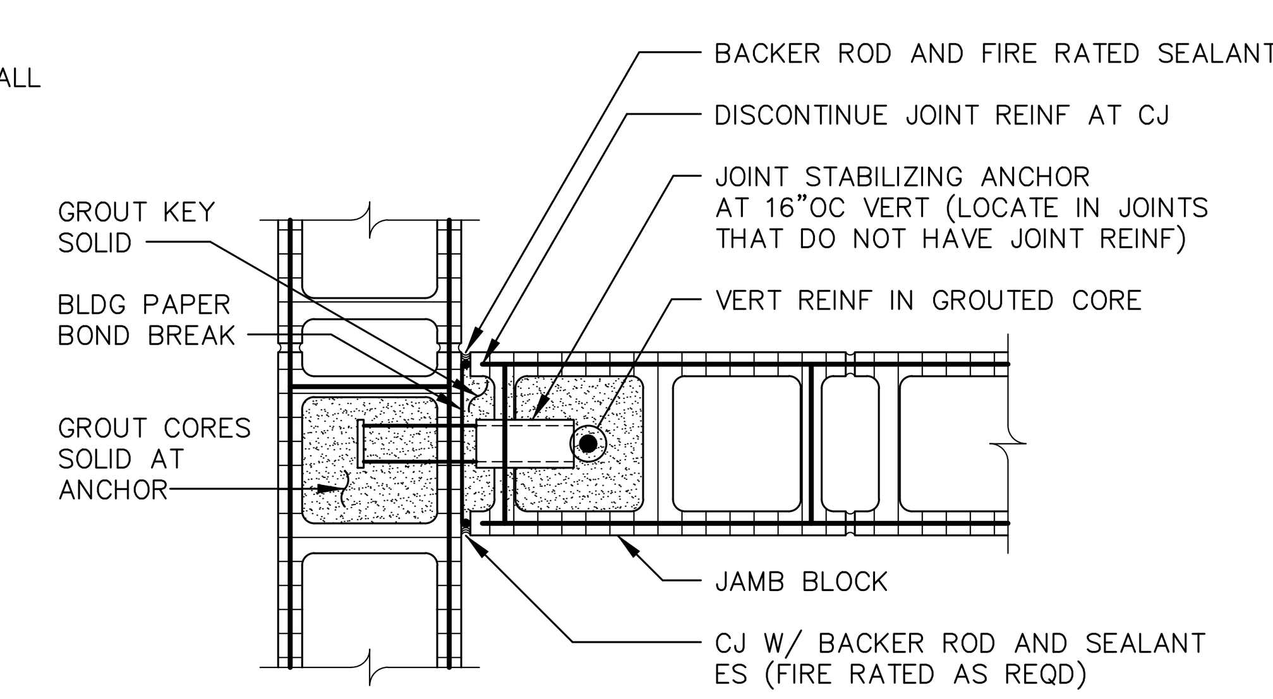
NOT TO SCALE

NOTE:
SHORE REINFORCED CMU LINTEL UNTIL MASONRY (INCLUDING GROUT) ABOVE LINTEL HAS CURED A MINIMUM OF 14 DAYS.



6 S400 SECTION AT MEZZANINE

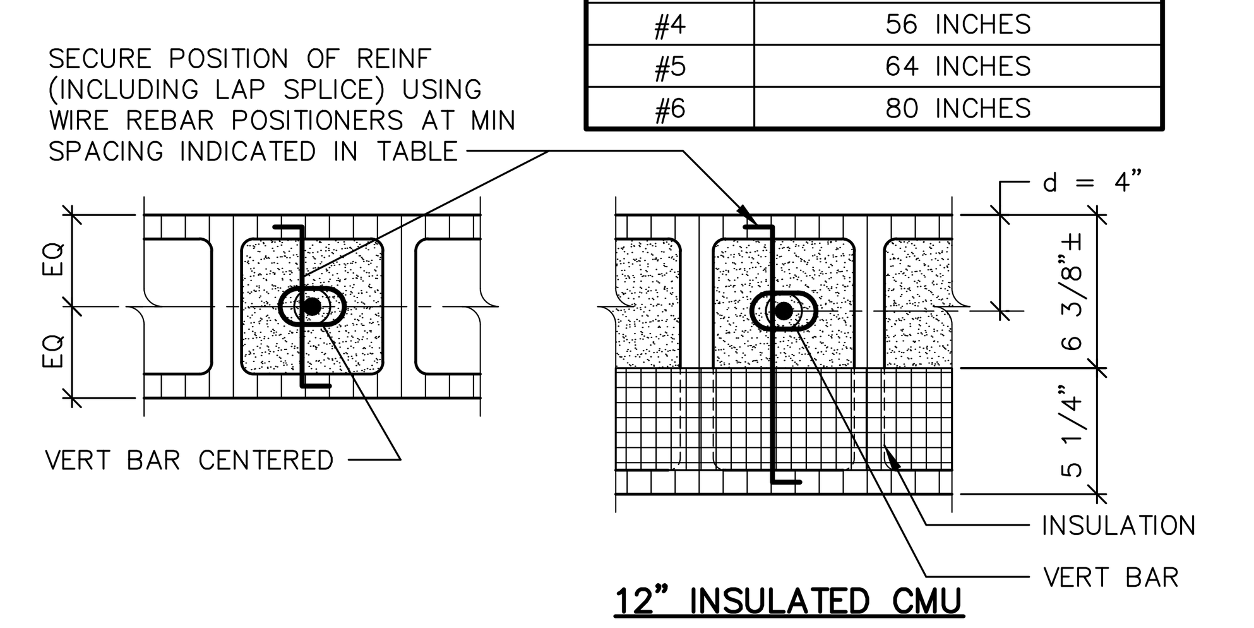
SCALE: 1 1/2" = 1'–0"



9 S400 WALL CONTROL JOINT DETAIL

NOT TO SCALE

REBAR POSITIONER SPACING	
BAR SIZE	MAX VERTICAL SPACING
#4	56 INCHES
#5	64 INCHES
#6	80 INCHES



10 S400 PLAN DETAIL – REINFORCING IN CMU CORES

NOT TO SCALE

NOTE:
BAR WILL BE OFFSET IN PRE–INSULATED CONCRETE BLOCK.

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

STATE OF NEW YORK
CHRISTOPHER A. LEITNER
074148
LICENSED PROFESSIONAL ENGINEER
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Checked By:	CAL
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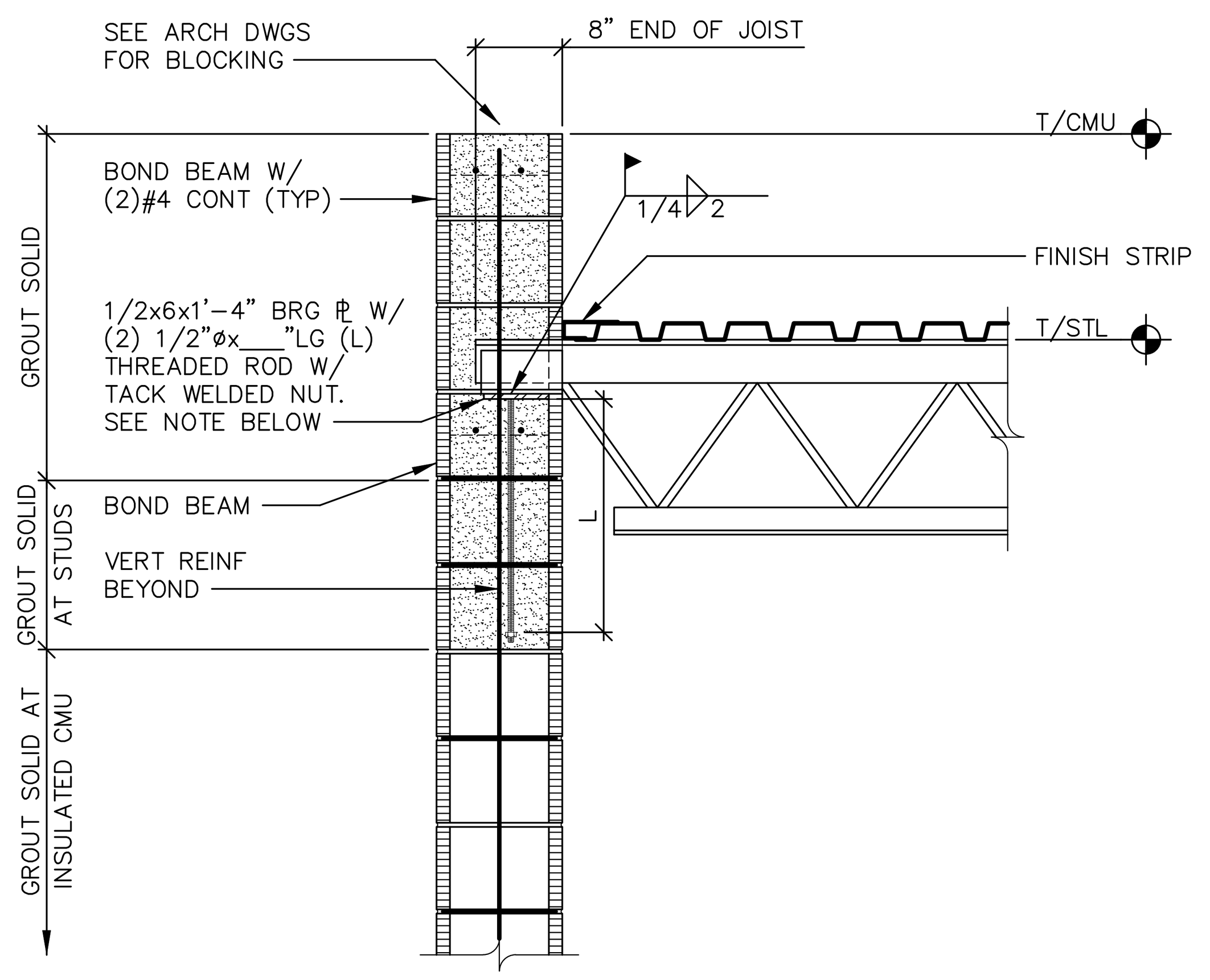
Sheet Title
MASONRY DETAILS

Sheet No.
S400

CONSTRUCTION DOCUMENTS
12697

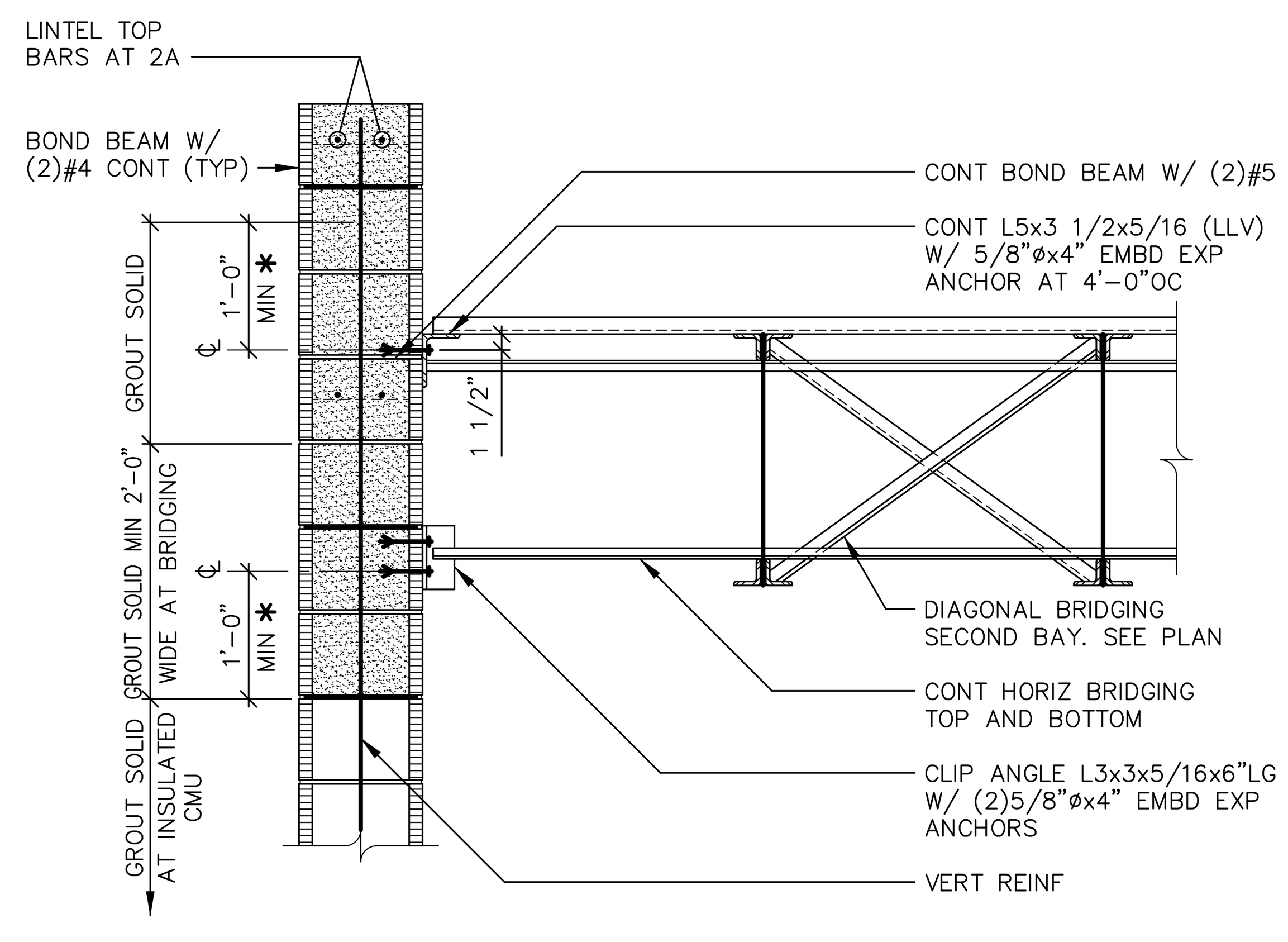


1/S500 WALL SECTION AT ROOF JOIST BEARING

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

NOTE:

LOCATE PLATE NO MORE THAN 1/2-INCH FROM FACE OF WALL ON JOIST SIDE.

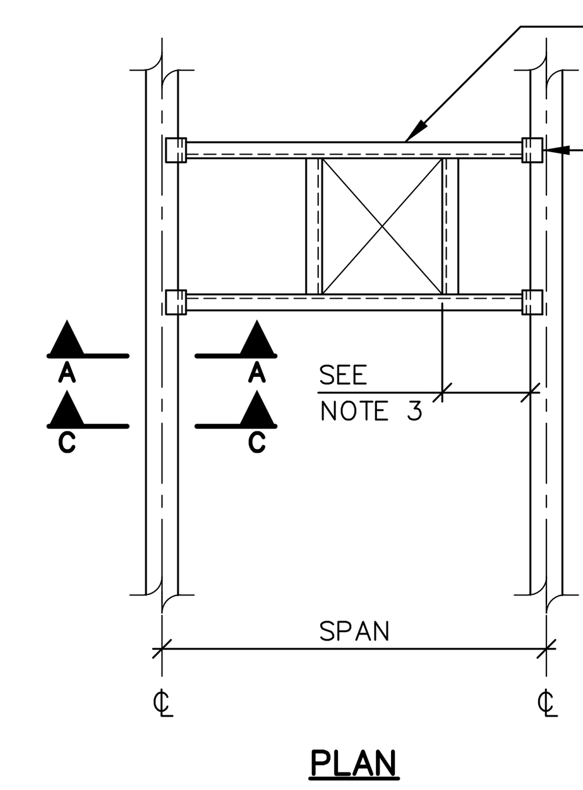


2/S500 2A/S500 SECTION AT BEARING WALL

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

NOTE:

✱ INDICATES EXTEND GROUT TO INCLUDE FULL HEIGHT OF COURSE.

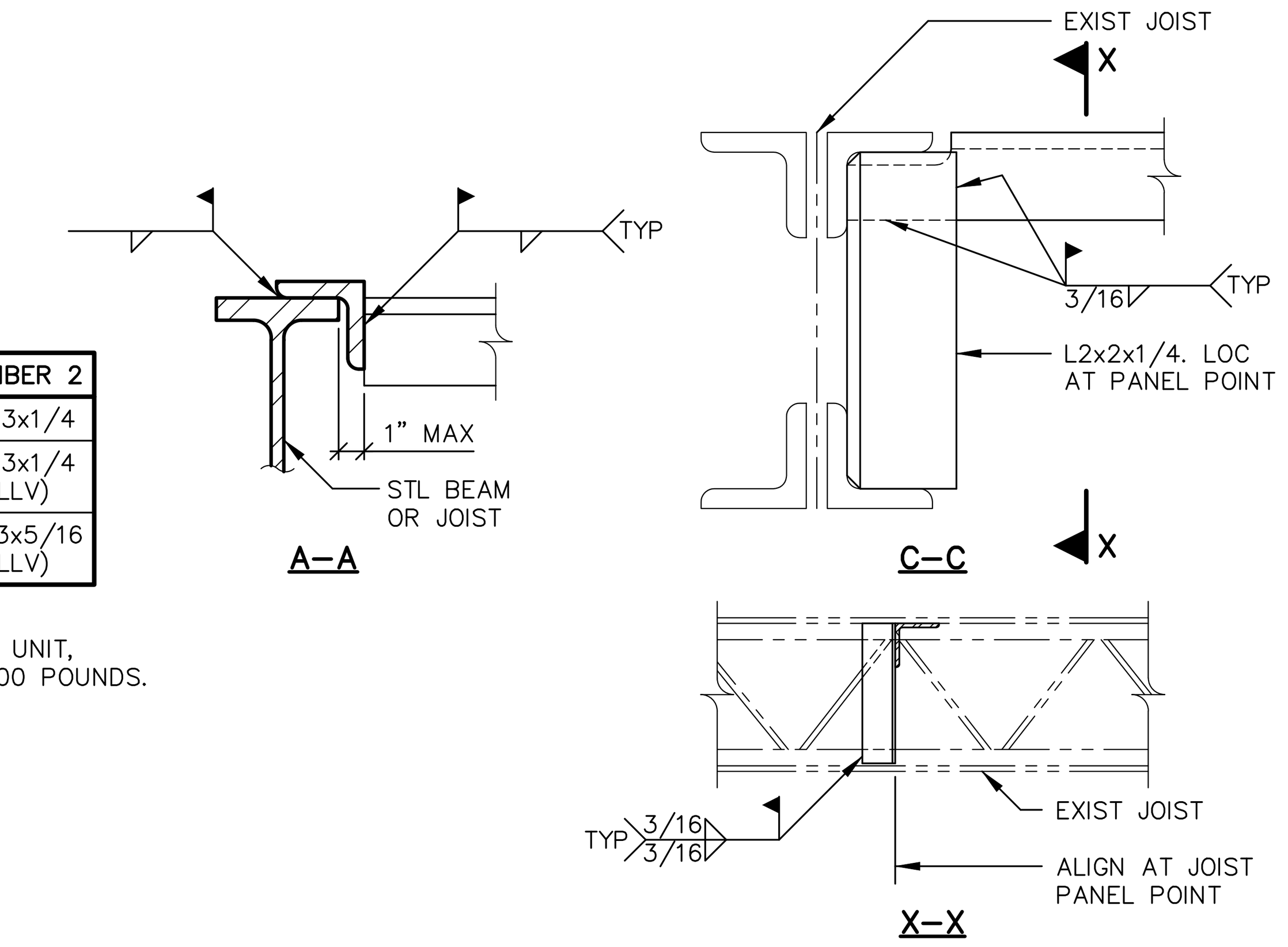


SEE ARCH OR MECH DWGS FOR FRAME DIMS AND LOCS

SPAN	MEMBER 1	MEMBER 2
L ≤ 4'-0"	L3x3x1/4	L3x3x1/4
4'-0" < L ≤ 6'-0"	L4x4x1/4	L4x3x1/4 (LLV)
6'-0" < L ≤ 13'-0"	C6x8.2	L5x3x5/16 (LLV)

NOTE:

IF FRAME ALSO SUPPORTS A MECH UNIT, UNIT WEIGHT SHALL NOT EXCEED 300 POUNDS.

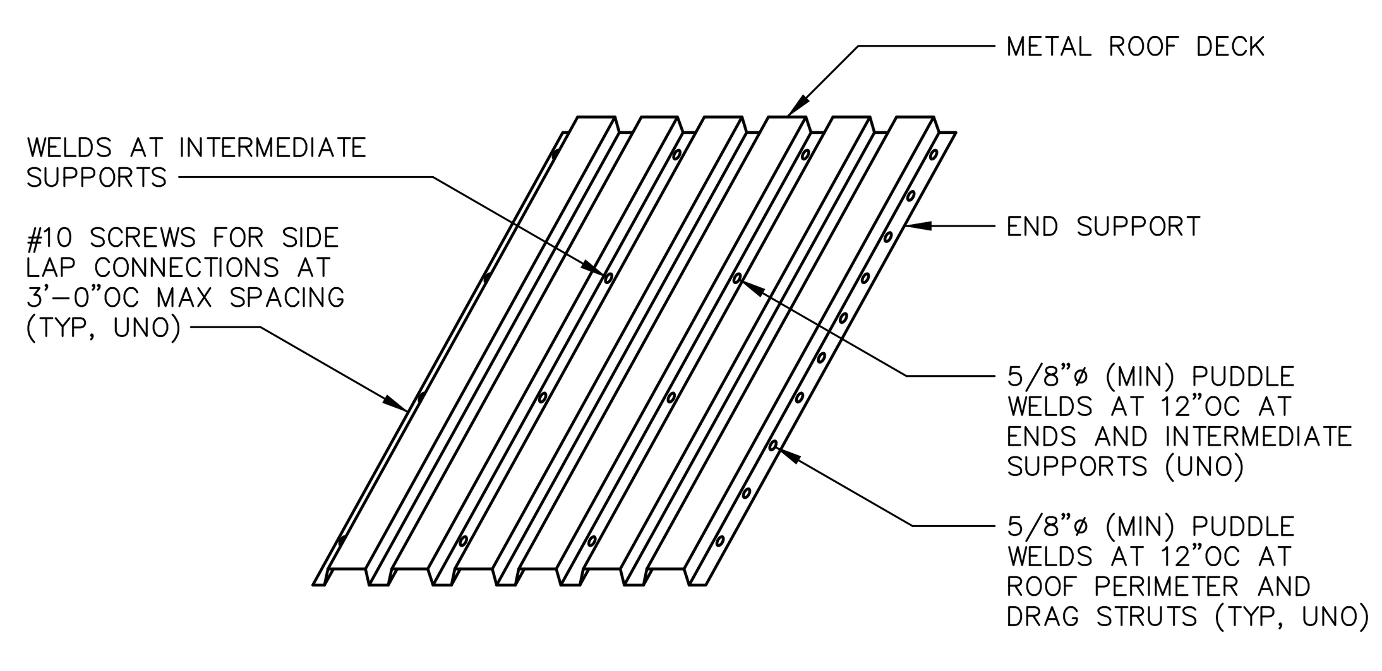


3/S500 WELDED ANGLE FRAME DETAIL

NOT TO SCALE

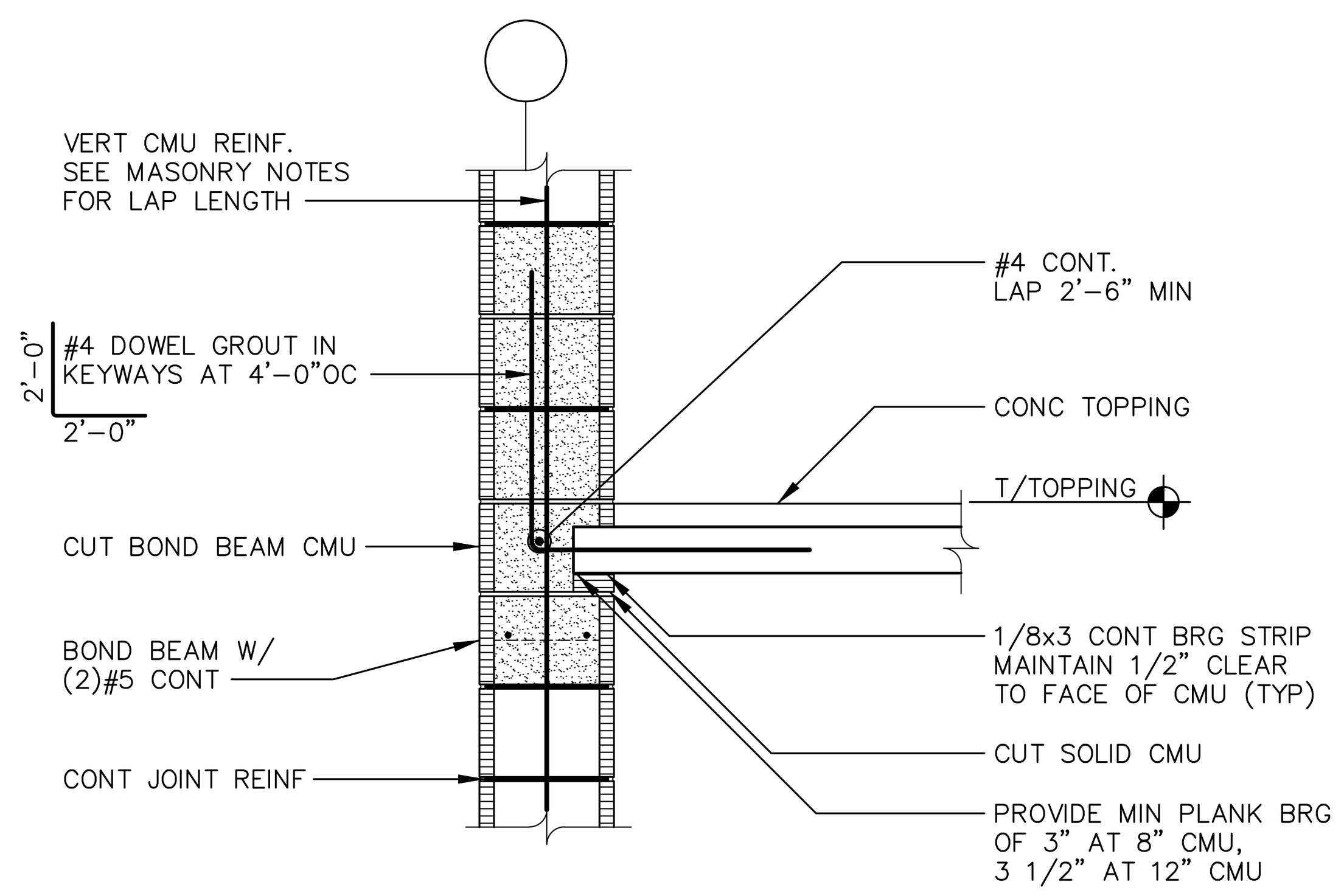
NOTES:

1. IF FRAME ALSO SUPPORTS A MECHANICAL UNIT, UNIT WEIGHT SHALL NOT EXCEED 300 POUNDS. NOTIFY ENGINEER IF UNIT WEIGHT WILL EXCEED 300 POUNDS.
2. NOTIFY ENGINEER IF EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN IN SECTION.
3. WHERE DIMENSION IS LESS THAN 8", OMIT MEMBER 1 PARALLEL TO EXISTING BEAM OR JOIST. TYPICAL (4) SIDES OF PENETRATION.



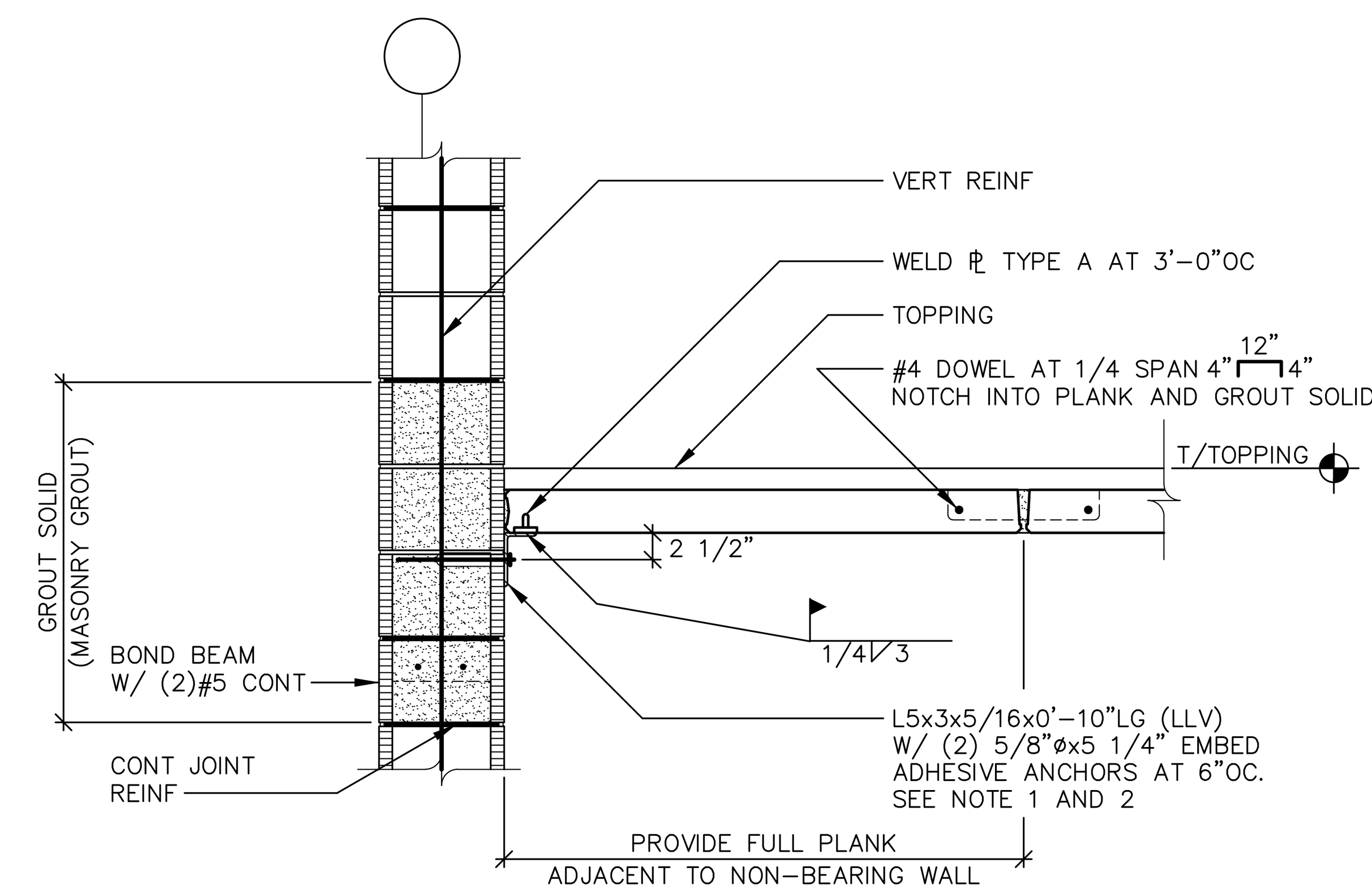
4/S500 ROOF DECK ATTACHMENT DETAIL

NOT TO SCALE



5/S500 PC PLANK AT BEARING WALL

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

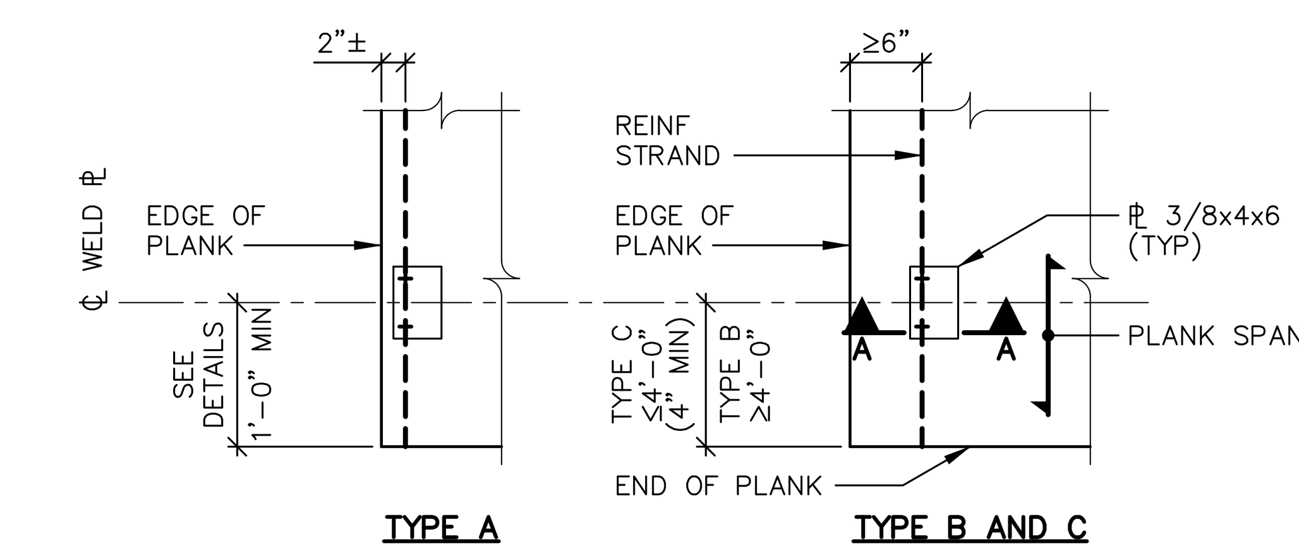


6/S500 PC PLANK AT BEARING WALL

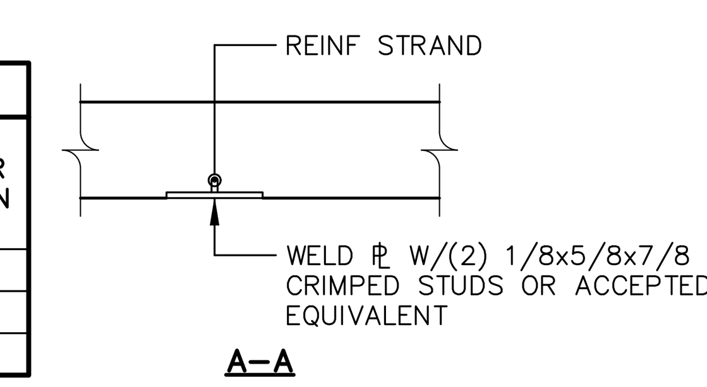
SCALE: 3/4" = 1'-0"

NOTES:

1. INSTALL ANGLES 3'-0"OC AFTER PLANK JOINTS ARE GROUTED AND PRIOR TO TOPPING PLACEMENT.
2. TRIM HORIZONTAL LEG OF L5x3 TO ALIGN WITH CENTER OF WELD PLATE. COORDINATE WELD PLATE LOCATIONS WITH APPROVED PLANK SHOP DRAWINGS.
3. SEE 7/S500 FOR WELD PLATE DETAILS.



REQUIRED ALLOWABLE LOADS (ASD):		
	SHEAR PARALLEL TO PLANK SPAN (LBS)	SHEAR PERPENDICULAR TO PLANK SPAN (LBS)
TYPE A	2,700	590
TYPE B	2,700	925
TYPE C	800	625

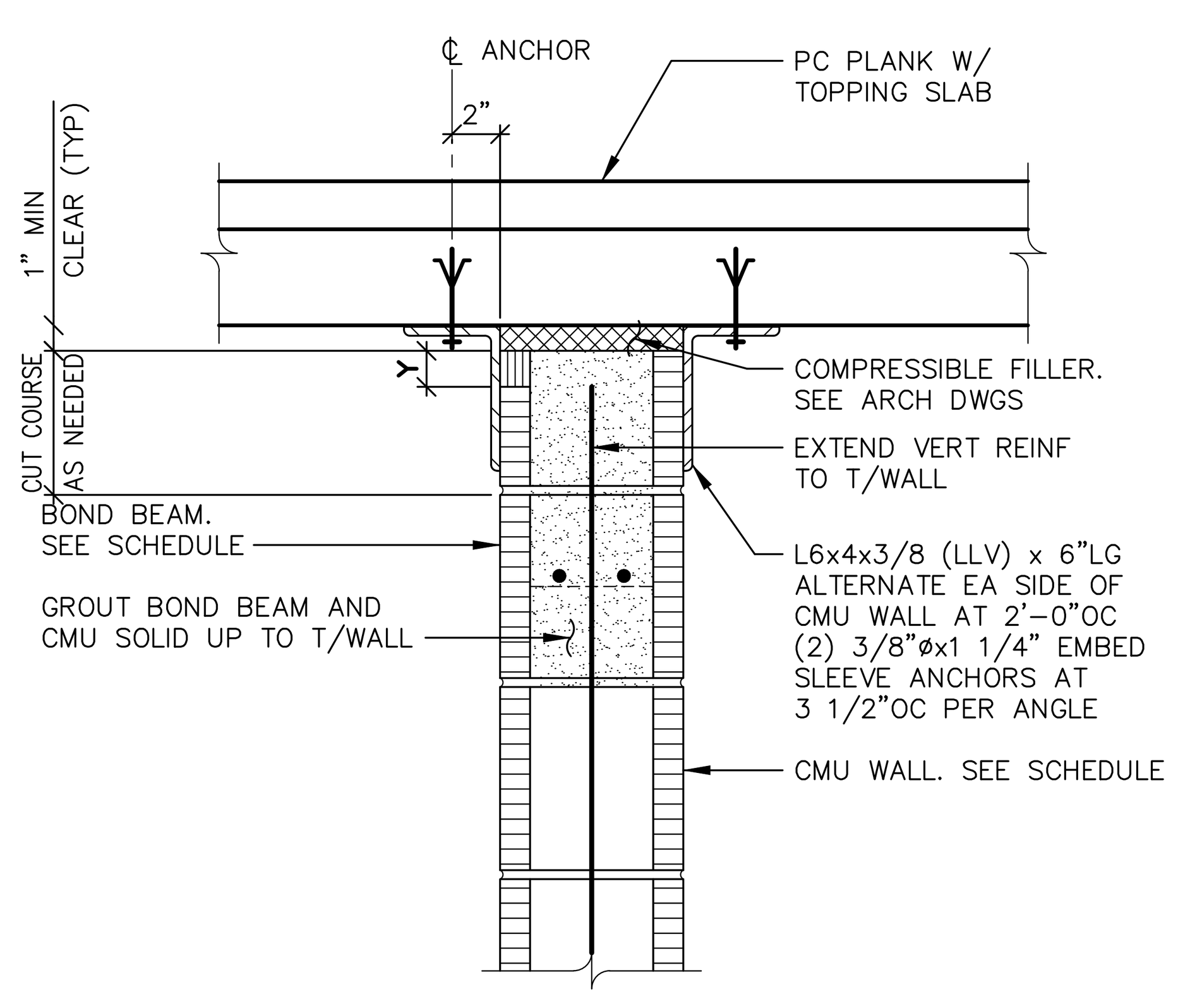


7/S500 PRECAST PLANK WELD PLATE DETAILS

NOT TO SCALE

NOTES:

1. SUBMIT TEST DATA SHOWING COMPLIANCE WITH REQUIRED LOADS.
2. ALLOWABLE LOADS BASED ON 4:1 SAFETY FACTOR.

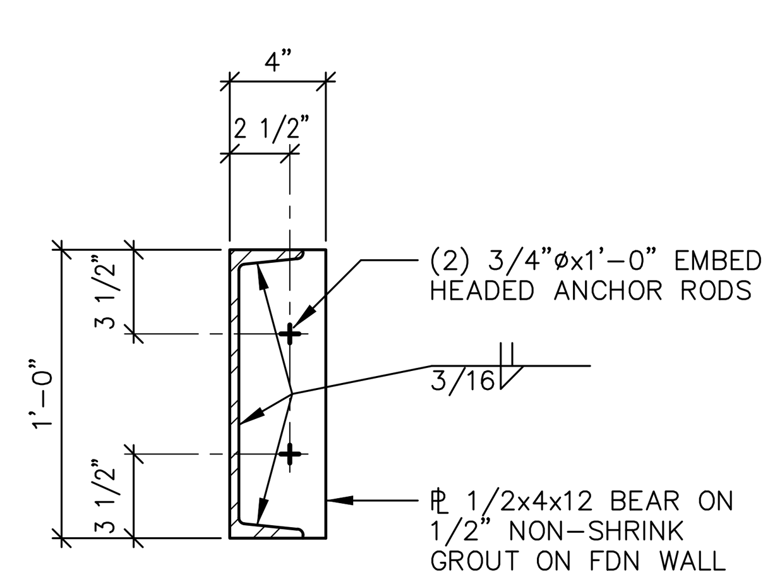


8/S500 DETAIL AT TOP OF CMU WALL

NOT TO SCALE

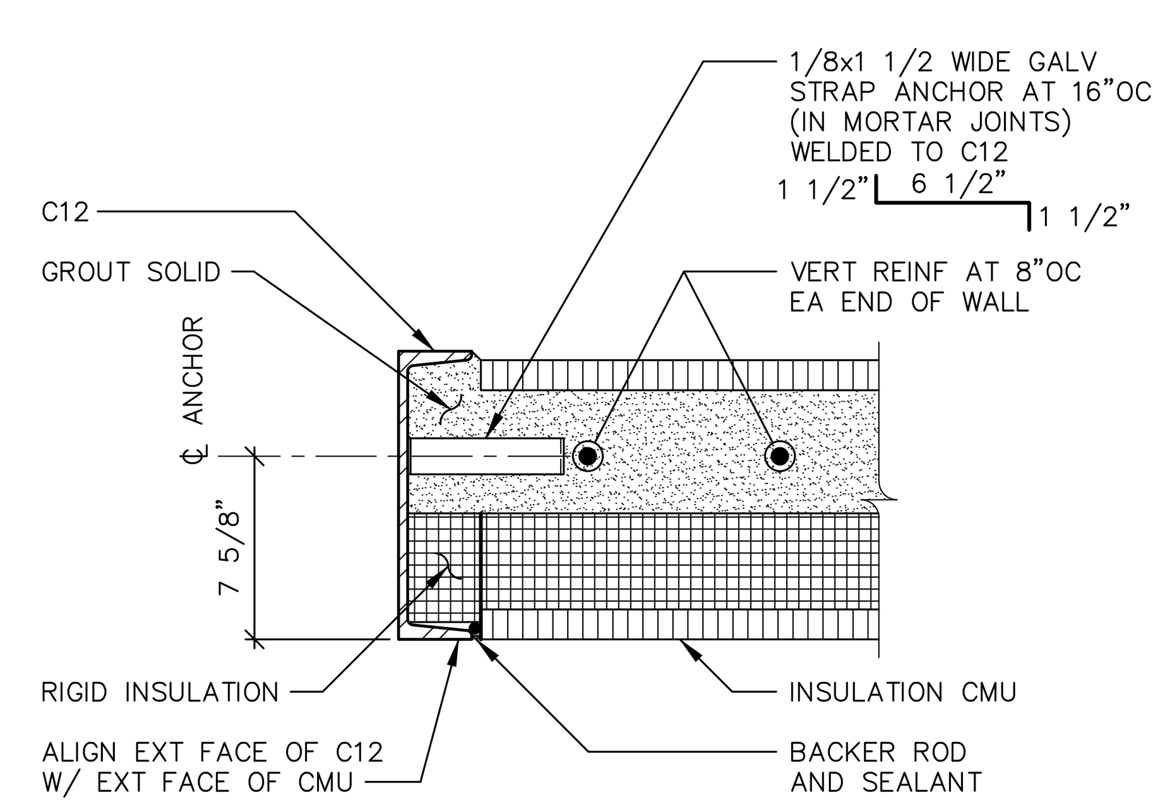
NOTE:

Y (SHADED ▥) INDICATES NOTCH FACE SHELL (4" MAXIMUM) AS REQUIRED FOR GROUTING. FILL SOLID WITH MORTAR ABOVE GROUT TO TOP OF CMU.



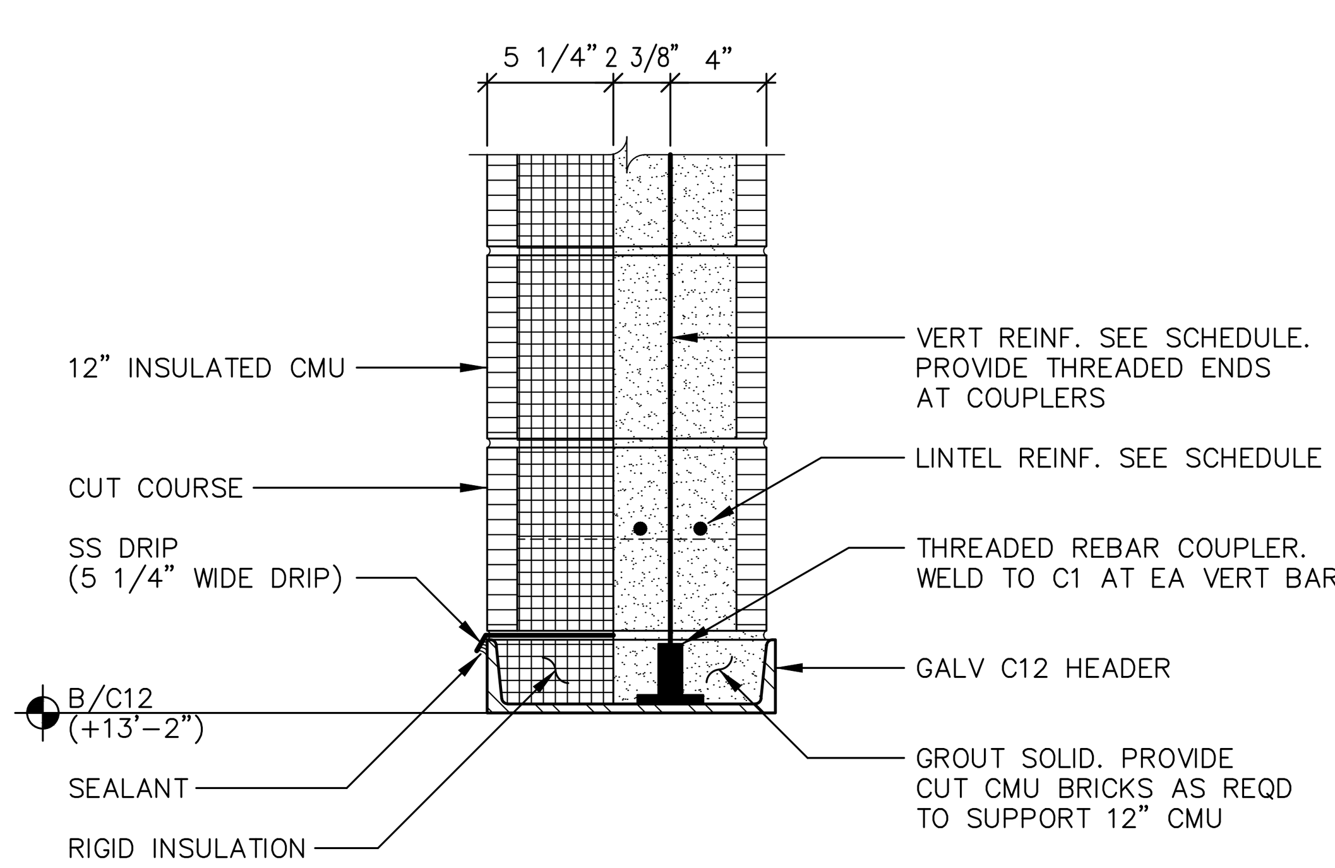
9/S500 BASE PLATE DETAIL

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



10/S500 JAMB DETAIL

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



11/S500 SECTION AT HEAD OF DOOR

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

NOTE:

SEE 2A/S500 FOR SECTION AT TOP OF WALL.

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Project Title

VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

STATE OF NEW YORK
CHRISTOPHER A. LEGER
074148
LICENSED PROFESSIONAL ENGINEER
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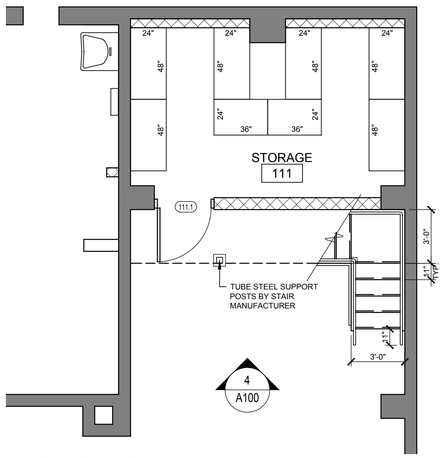
Sheet Title

STRUCTURAL DETAILS

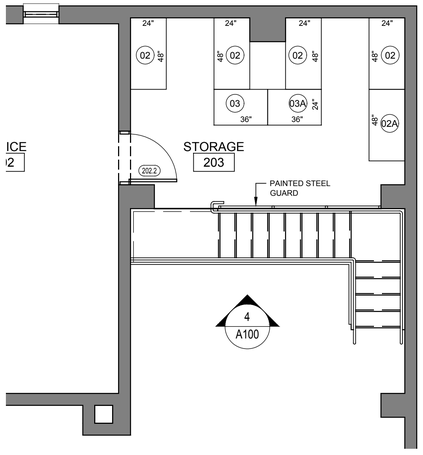
Sheet No.

S500

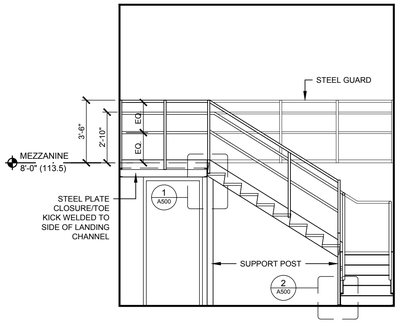
CONSTRUCTION DOCUMENTS
12697



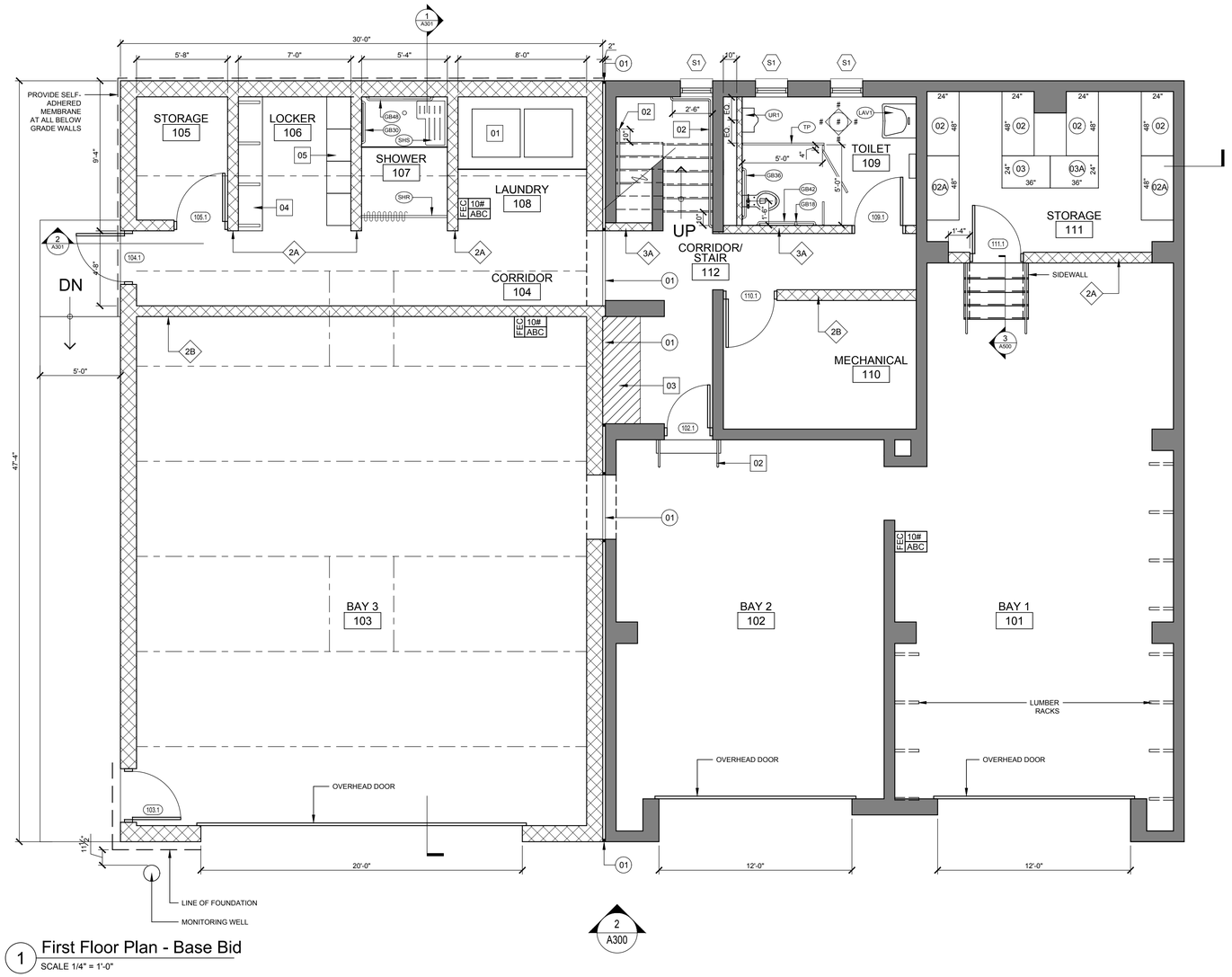
2 First Floor Plan - Alternate
SCALE 1/4" = 1'-0"



3 Mezzanine Plan - Alternate
SCALE 1/4" = 1'-0"



4 Interior Elevation - Alternate
SCALE 1/4" = 1'-0"



1 First Floor Plan - Base Bid
SCALE 1/4" = 1'-0"

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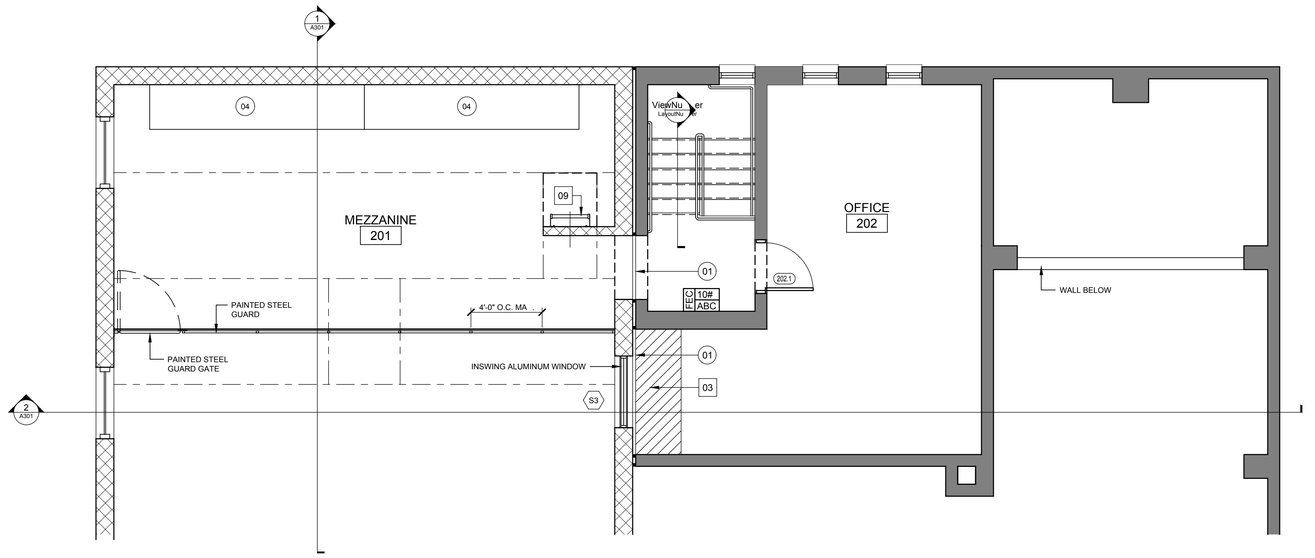
Sheet Title
FIRST FLOOR CONSTRUCTION PLAN AND ALTERNATE

Sheet No.
A100

CONSTRUCTION DOCUMENTS

PLAN NORTH
TRUE NORTH



1 Mezzanine Plan - Base Bid
SCALE 1/4" = 1'-0"

PLAN NORTH
TRUE NORTH

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Sheet Title
MEZZANINE CONSTRUCTION PLAN

Sheet No.
A101

CONSTRUCTION DOCUMENTS

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VILLAGE/TOWN OF MOUNT KISCO
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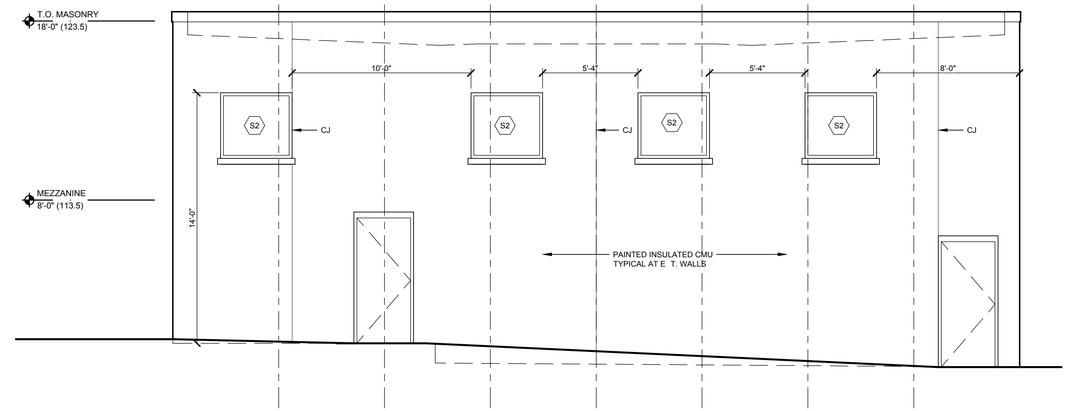
Sheet Title

ROOF PLAN

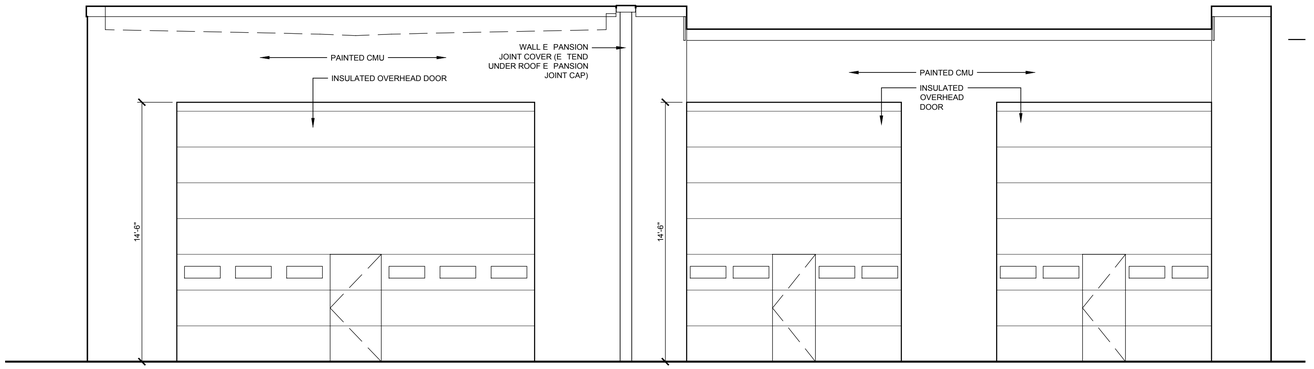
Sheet No.

A200

CONSTRUCTION DOCUMENTS



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



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

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VILLAGE/TOWN OF MOUNT KISCO
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43 COLUMBUS AVE, MOUNT KISCO, NY 10549

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Sheet Title
E TERIOR ELEVATIONS

Sheet No.
A300

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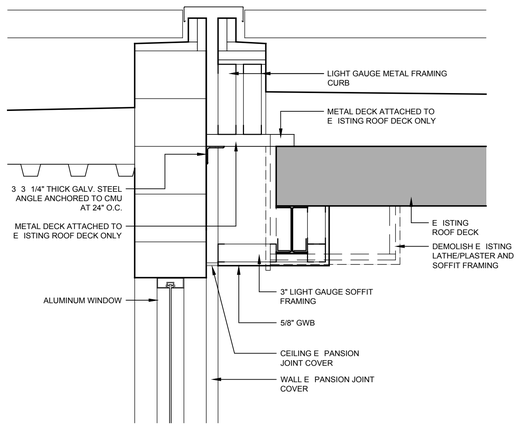
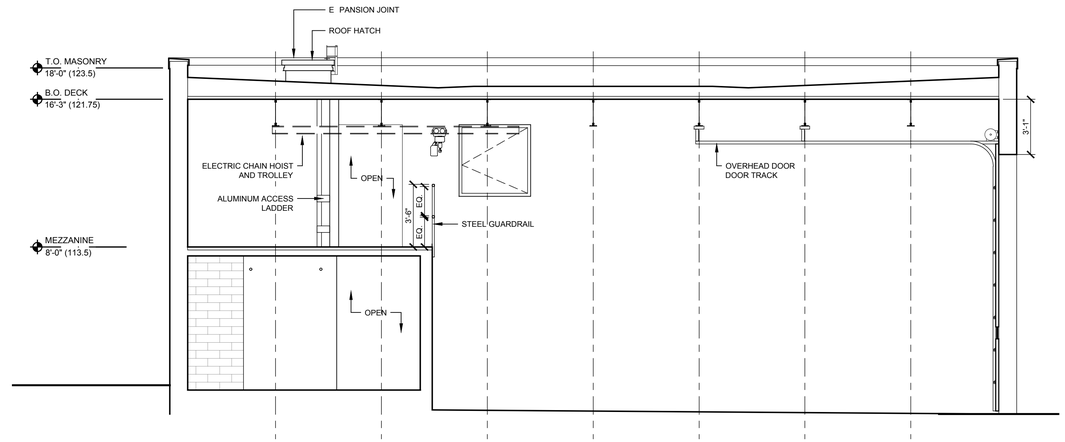
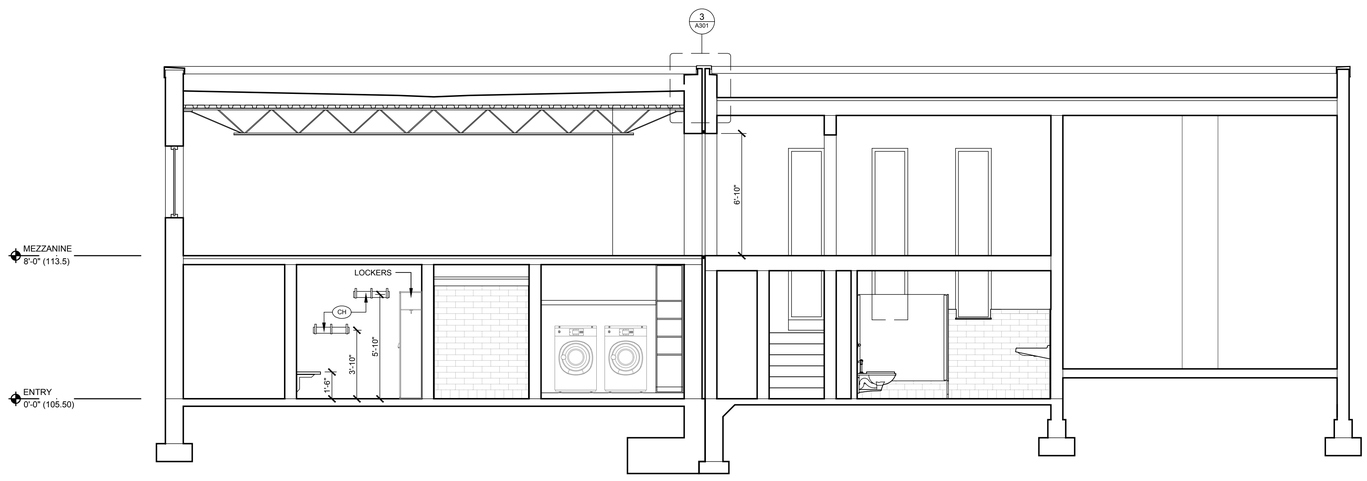


3 DETAIL E PANSION JOINT
SCALE: 1" = 1'-0"



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



2 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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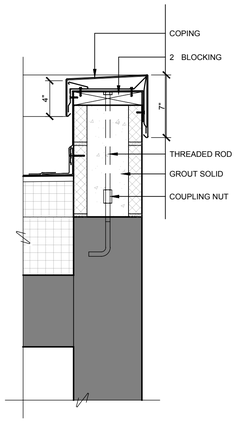
Sheet Title
SECTIONS AND DETAILS

Sheet No.
A301

CONSTRUCTION DOCUMENTS



8 DETAIL AT COPING
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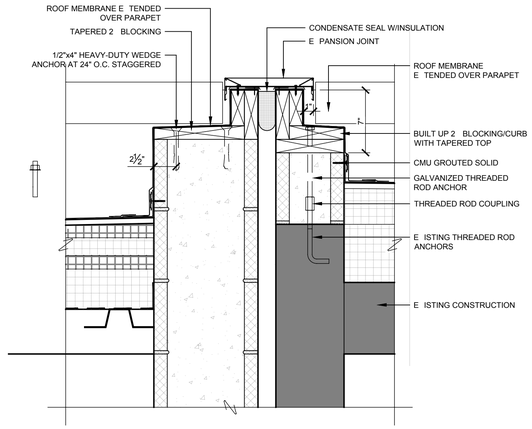

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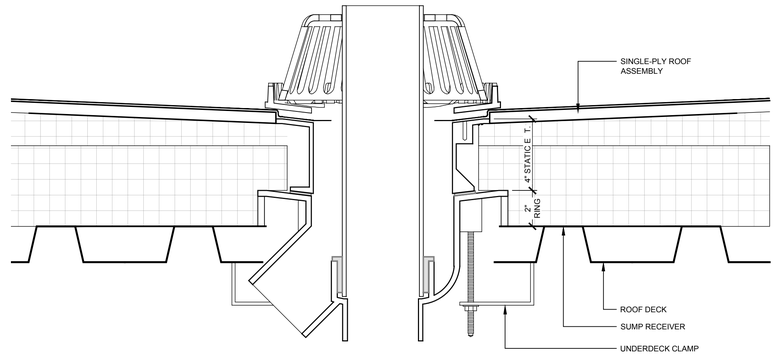

1 DETAIL AT ROOF DRAIN RD-1
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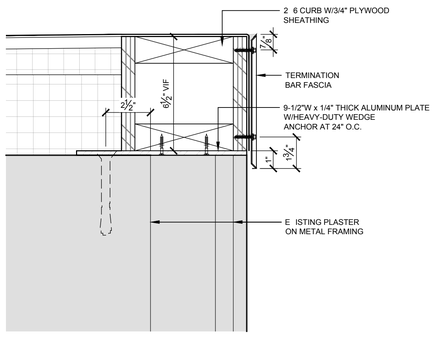
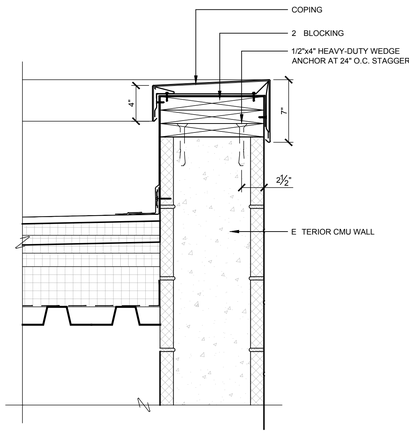


9 DETAIL AT FASCIA
SCALE: 3" = 1'-0"



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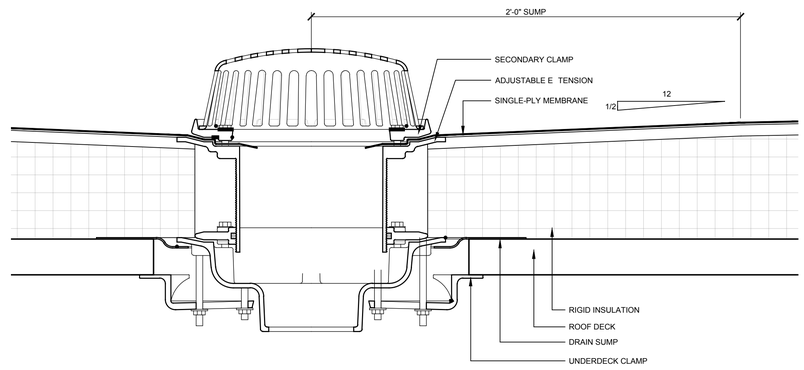

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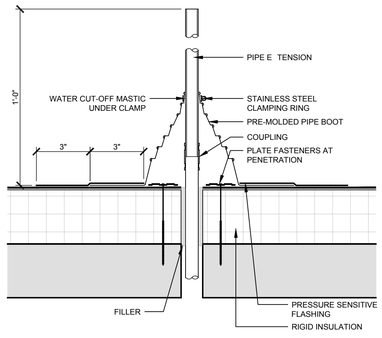
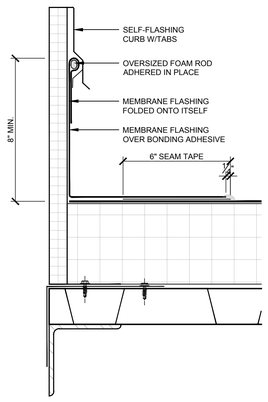
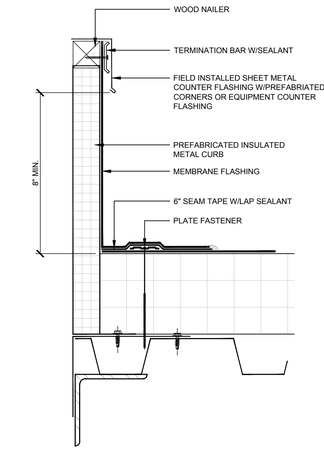


7 DETAIL AT PIPE PENETRATION
SCALE: 3" = 1'-0"



3 SELF-FLASHING CURB
SCALE: 3" = 1'-0"



4 FIELD FLASHED CURB
SCALE: 3" = 1'-0"

BAR DOWN STUDIO
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Consultant

Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

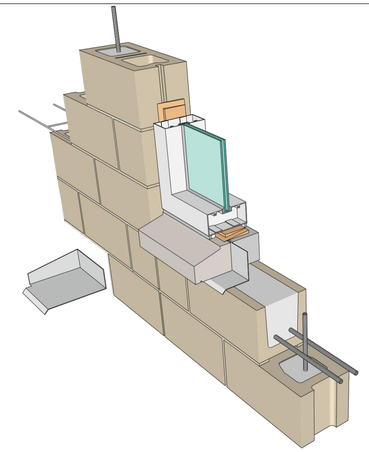
No	Date	Revision	By
4			
3			
2			
1			

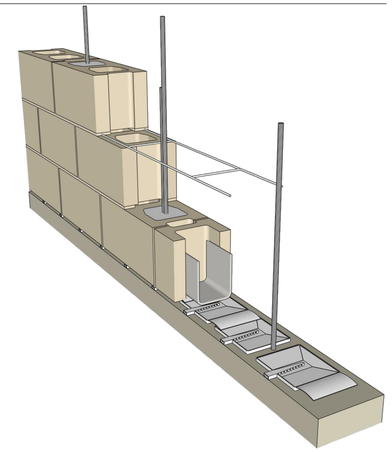
Drawn By:	dh
Checked By:	dh
BDS Proj. #:	21-01
Date:	June 3, 2022

Sheet Title
ROOF DETAILS

Sheet No.
A450

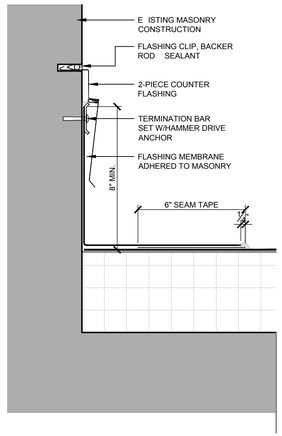
CONSTRUCTION DOCUMENTS





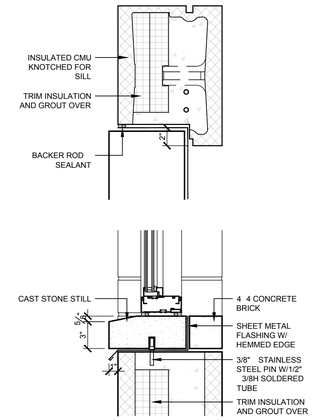
1 DETAILS AT MASONRY FLASHING

SCALE: N.T.S.



2 DETAIL AT COUNTER FLASHING

SCALE: 3" = 1'-0"



3 DETAILS AT SILL FLASHING

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

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Project Title

VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

No	Date	Revision	By
4			
3			
2			
1			

Drawn By:	dh
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BDS Proj. #:	21-01
Date:	June 3, 2022

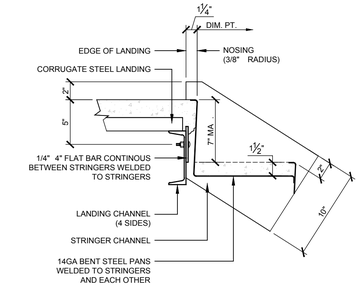
Sheet Title

MASONRY DETAILS

Sheet No.

A451

CONSTRUCTION DOCUMENTS



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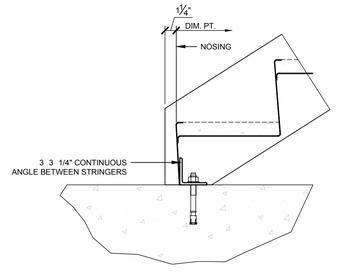
SCALE: 1-1/2" = 1'-0"



2 DEAIL AT LANDING
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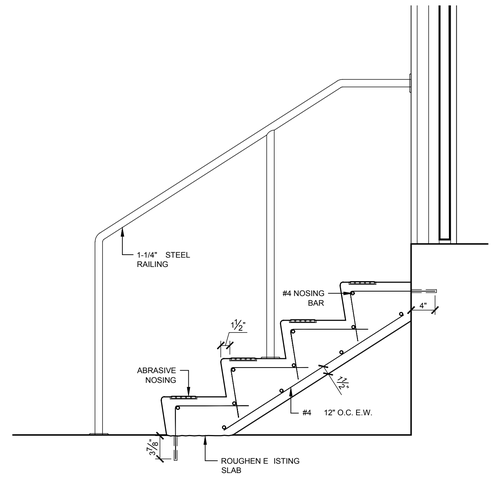

3 SECTION AT STAIR
SCALE: 1" = 1'-0"

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

No	Date	Revision	By
4			
3			
2			
1			

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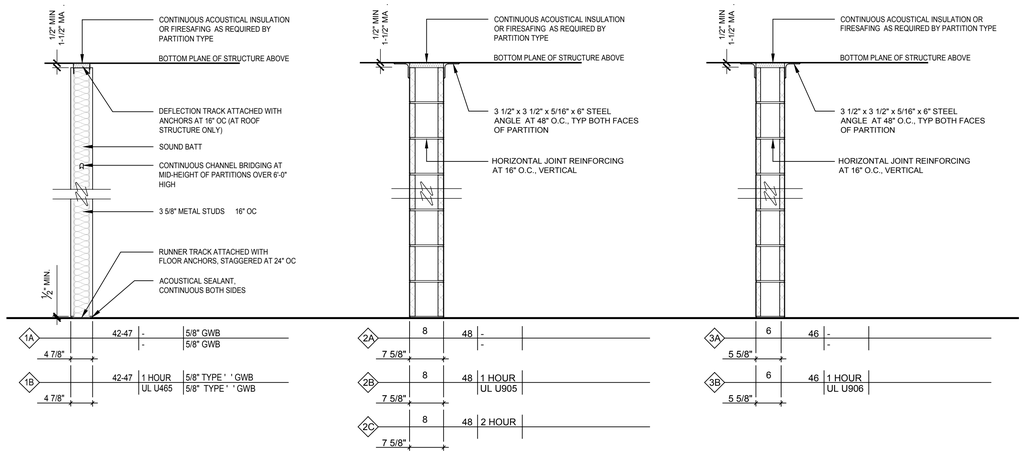
BDS Proj. #:	21-01
Date:	June 3, 2022

Sheet Title
STAIR
DETAILS

Sheet No.
A500

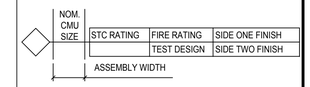
CONSTRUCTION DOCUMENTS



1 PARTITION TYPES

SCALE: N.T.S.

PARTITION NOTES



1. PROVIDE FIRE RATED JOINT SYSTEMS AT ALL INTERSECTIONS OF FIRE RATED PARTITION ASSEMBLIES AND FIRE RATED FLOOR /ROOF ASSEMBLIES. THE FIRE RATED JOINT SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE PARTITION IN WHICH IT IS BEING USED. THIS JOINT SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
2. PROVIDE THROUGH-PENETRATION FIRE STOP SYSTEM AT ALL PENETRATIONS THROUGH FIRE RATED PARTITION, FLOOR AND ROOF ASSEMBLIES. THE THROUGH-PENETRATION FIRE STOP SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE ASSEMBLY THAT IT IS BEING USED IN. THIS FIRE STOP SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
3. CONCEALED VERTICAL SPACES IN PARTITIONS SHALL BE FILLED WITH NON COMBUSTIBLE MATERIAL, OR FIRE-STOPPED AT EACH FLOOR LEVEL AND AT THE CEILING OF THE UPPERMOST STORY, SO THAT SUCH SPACES WILL NOT BE CONTINUOUS FOR MORE THAN ONE STORY, OR COMMUNICATE WITH CONCEALED HORIZONTAL SPACES IN THE FLOOR OR ROOF CONSTRUCTION.
4. ALL PARTITION TYPE DIAGRAMS ARE GRAPHICAL IN NATURE. IN THE CASE WHERE A DIAGRAM DOES NOT SHOW ALL MATERIALS REQUIRED BY A FIRE-RATED PARTITION, THE PARTITION TYPE DESCRIPTION GOVERNS.

DOOR NUMBER	LOCATION				DOOR							FRAME						LABEL (MIN.)	HARDWARE	MAG. HOLD-OPEN	ACCESS CONTROL	REMARKS	DOOR NUMBER
	FROM		TO		QUANTITY	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL						
103.1	EXT	EXTERIOR	103	BAY 3	1	3'-0"	7'-0"	1-3/4"	F	HM	PNT	HM1	HM	PNT	2/A900	2/A900			03	N	N		103.1
104.1	EXT	EXTERIOR	104	CORRIDOR	1	3'-0"	7'-0"	1-3/4"	F	HM	PNT	HM1	HM	PNT	2/A900	2/A900			03	N	N		104.1
105.1	104	CORRIDOR	105	STORAGE	1	3'-0"	7'-0"	1-3/4"	F	HM	PNT	HM1	HM	PNT	2/A900	2/A900			02	N	N		105.1
109.1	104	CORRIDOR	109	TOILET	1	3'-0"	7'-0"	1-3/4"	F	HM	PNT	HM2	HM	PNT	2/A900	2/A900			04	N	N		109.1
110.1	104	CORRIDOR	110	MECHANICAL	1	3'-0"	7'-0"	1-3/4"	L	HM	PNT	HM2	HM	PNT	2/A900	2/A900		45	02A	N	N		110.1
111.1	101	BAY	111	STORAGE	1	3'-0"	7'-0"	1-3/4"	F	HM	PNT	HM1	HM	PNT	2/A900	2/A900			02B	N	N		111.1
102.1	102	BAY	112	CORRIDOR	1	2'-8"	7'-0"	1-3/4"	F	HM	PNT	HM1	HM	PNT	2/A900	2/A900		45	02C	N	N		102.1
202.1	-	STAIR	202	OFFICE	1	2'-8"	7'-0"	1-3/4"	F	HM	PNT	HM1	HM	PNT	2/A900	2/A900			01	N	N		202.1
202.2	202	OFFICE	203	STORAGE	1	2'-8"	7'-0"	1-3/4"	F	HM	PNT	HM1	HM	PNT	2/A900	2/A900			01	N	N	Alternate	202.2

ABBREVIATIONS

ALU ALUNIMUM
WD WOOD
STL STEEL
HM HOLLOW METAL
FF FACTORY FINISH
PNT PAINT

DOOR SCHEDULE

NUMBER	ROOM NAME	FLOOR			BASE			NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			CEILING		
		SUBSTRATE	FINISH	COLOR CODE	SUBSTRATE	FINISH	COLOR CODE	SUBSTRATE	FINISH	COLOR CODE	SUBSTRATE	FINISH	COLOR CODE	SUBSTRATE	FINISH	COLOR CODE	SUBSTRATE	FINISH	COLOR CODE	MATERIAL	TYPE	COLOR CODE
101	BAY 1	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
102	BAY 2	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
103	BAY 3	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
104	CORRIDOR	CONC	EPOXY	TBD	-	-	-	-	-	-	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
105	STORAGE	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
106	LOCKER	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD
107	SHOWER	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD
108	LAUNDRY	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD
109	TOILET	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
110	MECHANICAL	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
111	STORAGE	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
112	CORRIDOR/STAIR	CONC	EPOXY	TBD	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
201	MEZZANINE	CONC	-	-	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD				CONC	PNT	TBD	CONC	PNT	TBD
202	OFFICE	CONC	VIN	TBD	CONC	RB	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD
203	STORAGE	CONC	-	-	-	-	-	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD	CONC	PNT	TBD

ABBREVIATIONS

CONC CONCRETE/CONCRETE MASONRY UNIT
GWB GYPSUM WALLBOARD
PNT PAINT
VCT VINYL COMPOSITE TILE
CWT- CERAMIC WALL TILE
CFT- CERAMIC FLOOR TILE
LIN LINOLEUM
VIN VINYL
CPT- CARPET TILE
QT QUARRY TILE
TB TILE BACKER
EWF ENGINEERED WOOD FLOORING
SAC- SUSPENDED ACOUSTIC CEILING
RB RUBBER BASE
WD WOOD
TF TRANSPARENT FINISH

FINISH SCHEDULE

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Consultant

Project Title

VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

No	Date	Revison	By
4			
3			
2			
1			

Drawn By:	dh
Checked By:	dh
BDS Proj. #:	21-01
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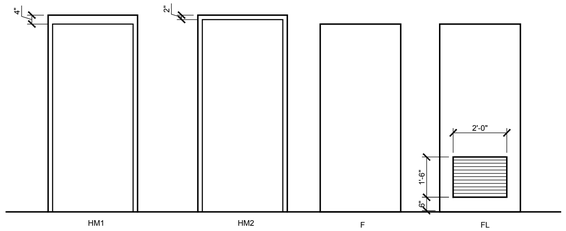
Sheet Title

WALL TYPES AND SCHEDULES

Sheet No.

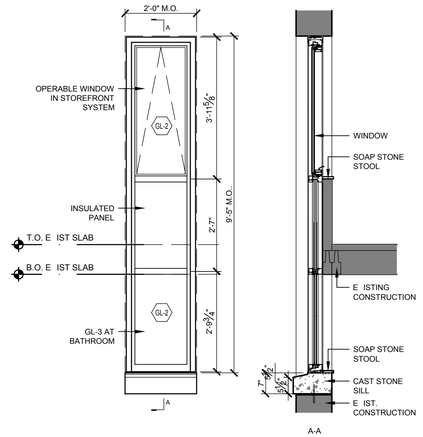
A600

CONSTRUCTION DOCUMENTS



2 DOOR FRAME TYPES

SCALE: N.T.S.



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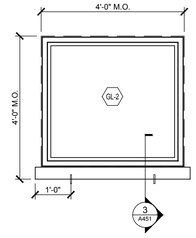

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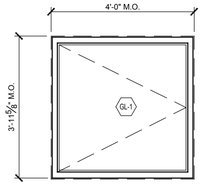
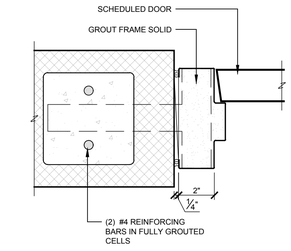


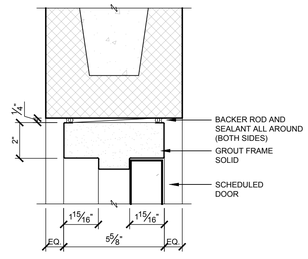
S3

1 WINDOW ELEVATIONS

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



JAMB



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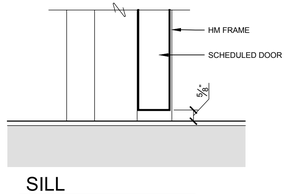

SILL

2 DOOR FRAME DETAILS

SCALE: 3" = 1'-0"

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Project Title

VILLAGE/TOWN OF MOUNT KISCO
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Date:	June 3, 2022

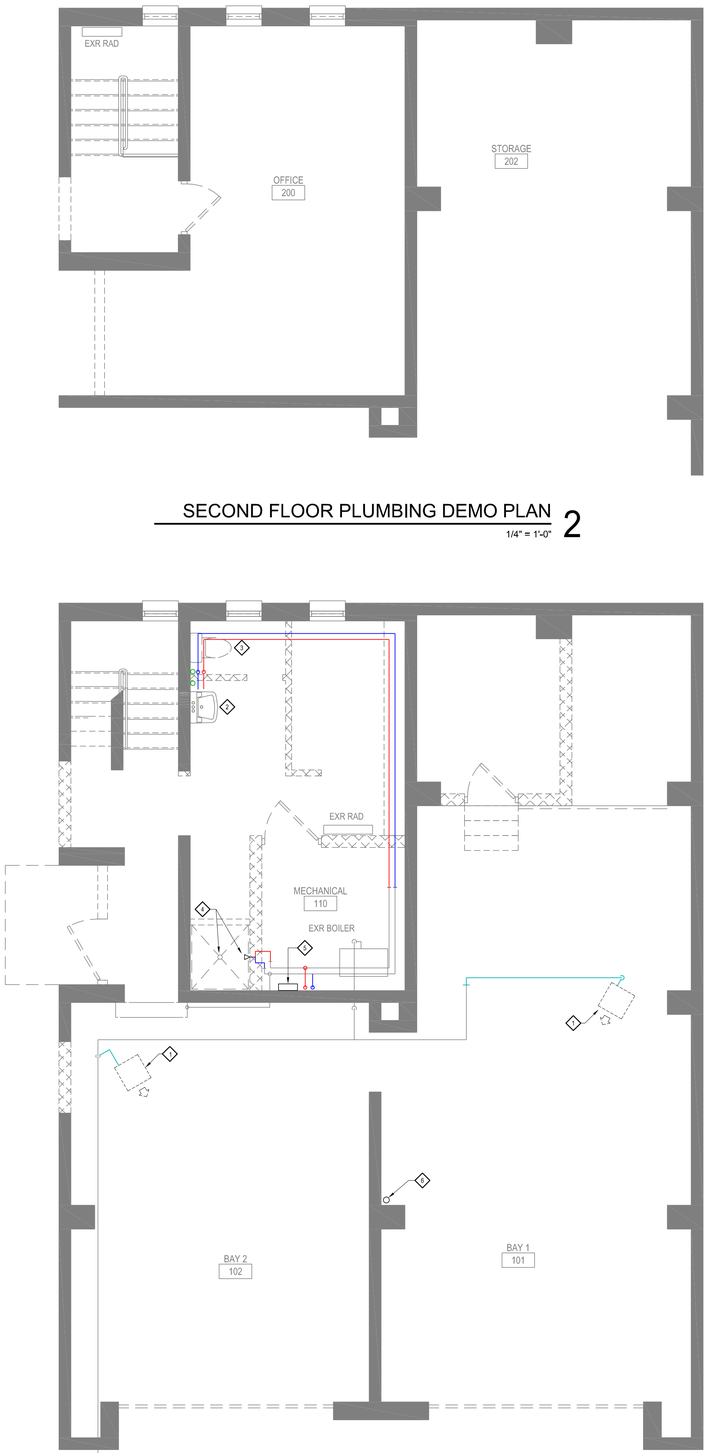
Sheet Title

DOOR AND WINDOW DETAILS

Sheet No.

A900

CONSTRUCTION DOCUMENTS



SECOND FLOOR PLUMBING DEMO PLAN 2
1/4" = 1'-0"

FIRST FLOOR PLUMBING DEMO PLAN 1
1/4" = 1'-0"

General Notes

1. PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THIER BID & SHALL PERFORM ALL INVESTIGATIVE WORK BEFORE SUBMITTING THIER BID. COORDINATE ALL SITE VISITS WITH THE OWNER PRIOR TO VISITING THE SITE.
2. COORDINATE LOCATION OF ALL ROUGH-INS WITH THE GENERAL CONTRACTOR.
3. CONNECT ALL HOT WATER, HOT WATER RETURN, COLD WATER, VENT, & SANITARY WASTE PIPING TO ALL FIXTURES AS REQUIRED INCLUDING ALL PIPE, INSULATION, VALVES, FIXTURE STOPS, TRAPS, TAILPEICES, SUPPORT HARDWARE, ESCUTCHEONS, SLEEVES, ACCESS DOORS, CLEANOUTS, PIPING HANGERS, ETC. AS REQUIRED FOR A COMPLETE & OPERATIONAL INSTALLATION.
4. PROVIDE & INSTALL ALL NEW PLUMBING FIXTURES AT EACH LOCATION SHOWN. WORK SHALL INCLUDE ALL CUTTING & PATCHING, PIPING & CONNECTIONS, FIXTURE CARRIERS / SUPPORT HARDWARE, ETC. COORDINATE THE LOCATION & INSTALLATION OF FIXTURE CARRIERS WITH THE G.C. PRIOR TO START OF WORK. ALL EXPOSED METAL WORK SHALL BE CHROME PLATED.
5. PROVIDE & INSTALL A SHUT-OFF VALVE FOR EACH WATER SUPPLY BRANCH TO EACH FIXTURE. VALVES SHALL BE IN AN EASILY ACCESSIBLE LOCATION.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL & NATIONAL PLUMBING CODES. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS & INSPECTIONS FOR WORK DONE UNDER THE PLUMBING CONTRACT.
7. PLUMBING CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF ALL WORK WITH ALL OTHER TRADES PRIOR TO THE INSTALLATION OF ANY WORK. CONTRACTOR WILL BE RESPONSIBLE FOR RE-DOING ANY WORK IN CONFLICT WITH OTHER TRADES AS A RESULT OF IMPROPER WORK COORDINATION.
8. CONTRACTOR SHALL PROVIDE & INSTALL INSULATION FOR ALL NEW HOT & COLD WATER PIPING INSTALLED.
9. ALL NEW WORK SHALL BE PROPERLY TESTED & CLEANED BEFORE BEING PUT INTO SERVICE. CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY FOR ALL MATERIALS & WORKMANSHIP FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT BY THE ENGINEER (PROJECT CLOSEOUT).
10. ALL NEW WORK SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
11. WHERE DISSIMILAR METALS ARE CONNECTED, CONTRACTOR SHALL PROVIDE & INSTALL AN APPROVED DIELECTRIC UNION / NON-GALVANIC ISOLATOR.
12. ALL DRAINAGE PIPING SHALL BE INSTALLED WITH A PITCH OF 1/4" PER FOOT UNLESS SPECIFICALLY NOTED OTHERWISE OR SPECIFICALLY APPROVED BY THE ENGINEER.
13. NEW VENT PIPING FOR DRAINAGE SYSTEMS SHALL BE INSTALLED USING LONG TURN ELBOWS AT ALL CHANGES IN DIRECTION. COORDINATE VENT STACK LOCATIONS WITH THE G.C. PRIOR TO INSTALLATION.
14. PROVIDE & INSTALL FULL LINE SIZE CLEANOUTS AT EACH INDICATED LOCATION. CLEANOUTS TO BE INSTALLED EVERY 50 FEET ON HORIZONTAL PIPING, AT ALL CHANGES IN DIRECTION & AT ALL LEADER / SOIL / VENT / WASTE STACKS OR AS OTHERWISE REQUIRED BY CODE.
15. PLUMBING CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS TO THE GENERAL CONTRACTOR DETAILING LOCATIONS OF PLUMBING ROUGH-INS, PIPE ROUTING AND ELEVATIONS, CLEANOUTS, ACCESS DOORS, AND WALL / ROOF / FLOOR OPENINGS.

Removal Notes

1. DISCONNECT GAS-FIRED UNIT HEATER AND REMOVE GAS PIPING BACK TO POINT INDICATED.
2. REMOVE SINK AND ASSOCIATED WASTE, VENT AND SUPPLY PIPING TO POINT INDICATED.
3. REMOVE FLOOR MOUNTED WATER CLOSET INCLUDING WASTE AND SUPPLY ROUGH-INS.
4. REMOVE SHOWER HEAD, MIXING VALVE, SUPPLY ROUGH-INS AND SHOWER DRAIN. CAP DRAIN.
5. REMOVE TANKLESS ELECTRIC WATER HEATER AND ASSOCIATED PIPING.
6. REMOVE ROOF DRAIN. ROOF LEADER TO REMAIN FOR RECONNECTION IN PROPOSED WORK.

S / E / W / N

0 2' 4' 8'

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

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

No	Date	Revision	By
4			
3			
2			
1			

Drawn By:	ks
Checked By:	ks
BDS Proj. #:	21-01
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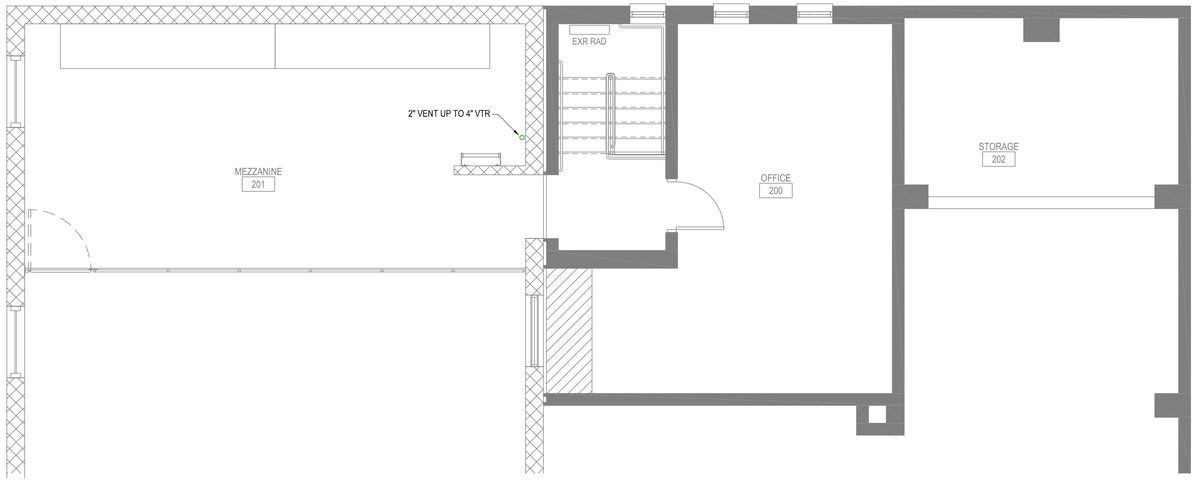
Sheet Title
PLUMBING DEMO PLANS

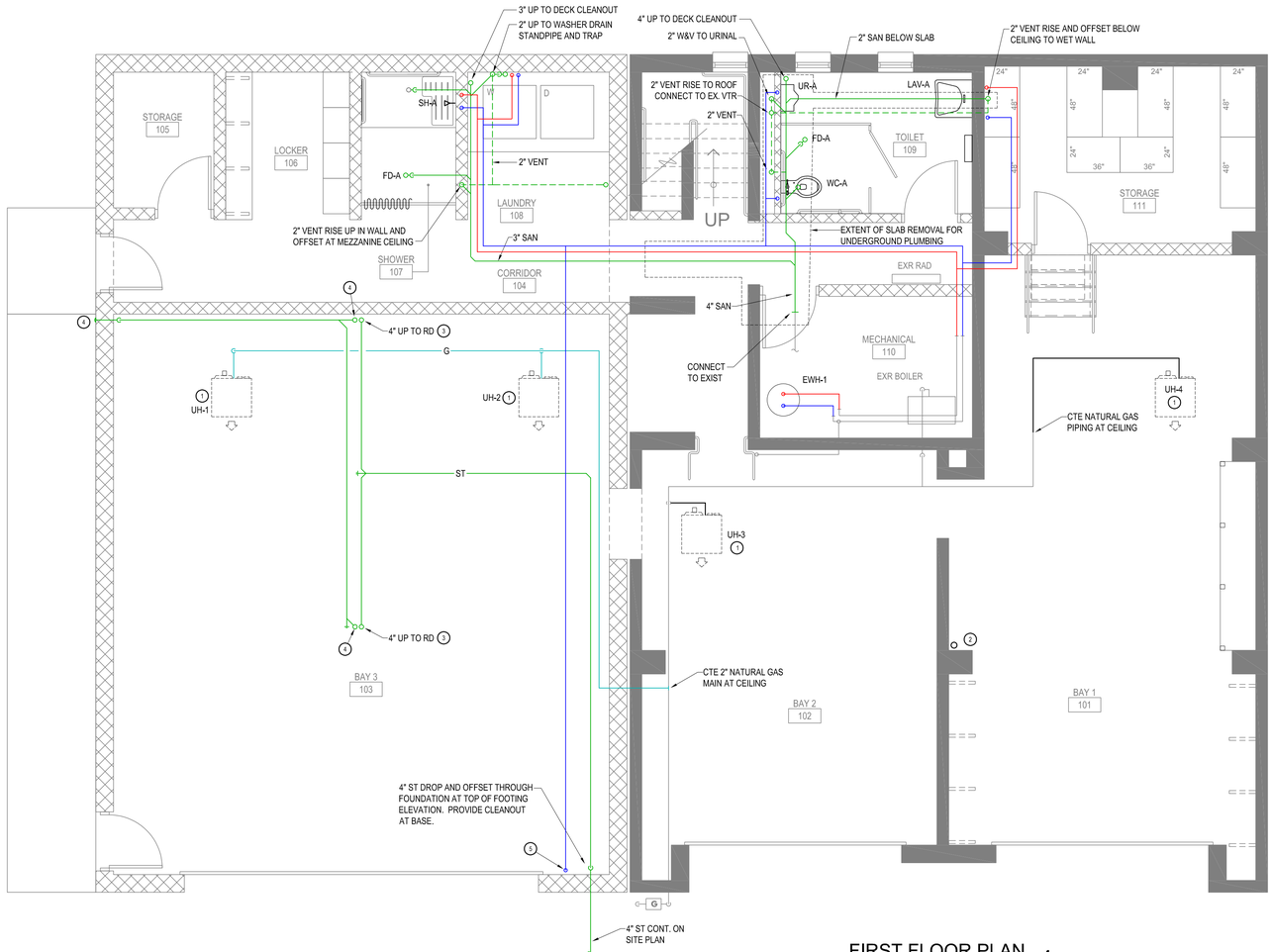
Sheet No.
P-1

CONSTRUCTION DOCUMENTS



MEZZANINE PLAN 2

1/4" = 1'-0"



FIRST FLOOR PLAN 1

1/4" = 1'-0"

General Notes

1. DOMESTIC WATER SUPPLY PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PLUMBING FIXTURE BRANCH SUPPLY CONNECTIONS SHALL BE 1/2" UNLESS NOTED OTHERWISE.

Drawing Notes

1. CONNECT GAS TO UNIT HEATER INSTALLED BY M.C. PROVIDE DIRT LEG AND LISTED SHUTOFF VALVE.
2. ROOF DRAIN FURNISHED AND INSTALLED BY THE GC. CONNECT TO EXISTING ROOF LEADER.
3. EMERGENCY OVERFLOW TYPE ROOF DRAIN FURNISHED AND INSTALLED BY THE GC. PROVIDE STORM AND OVERFLOW PIPING AS INDICATED.
4. 4" EMERGENCY OVERFLOW ROOF DRAIN. DROP DOWN TO ZURN Z199 DOWNSPOUT NOZZLE 24" ABOVE GRADE.
5. 3/4" COLD SUPPLY TO HOSE BIB MOUNTED 36" AFF.

S E W N

0 2' 4' 8'

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

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PLUMBING PLANS

Sheet No.

P-2

CONSTRUCTION DOCUMENTS

PLUMBING SPECIALTIES

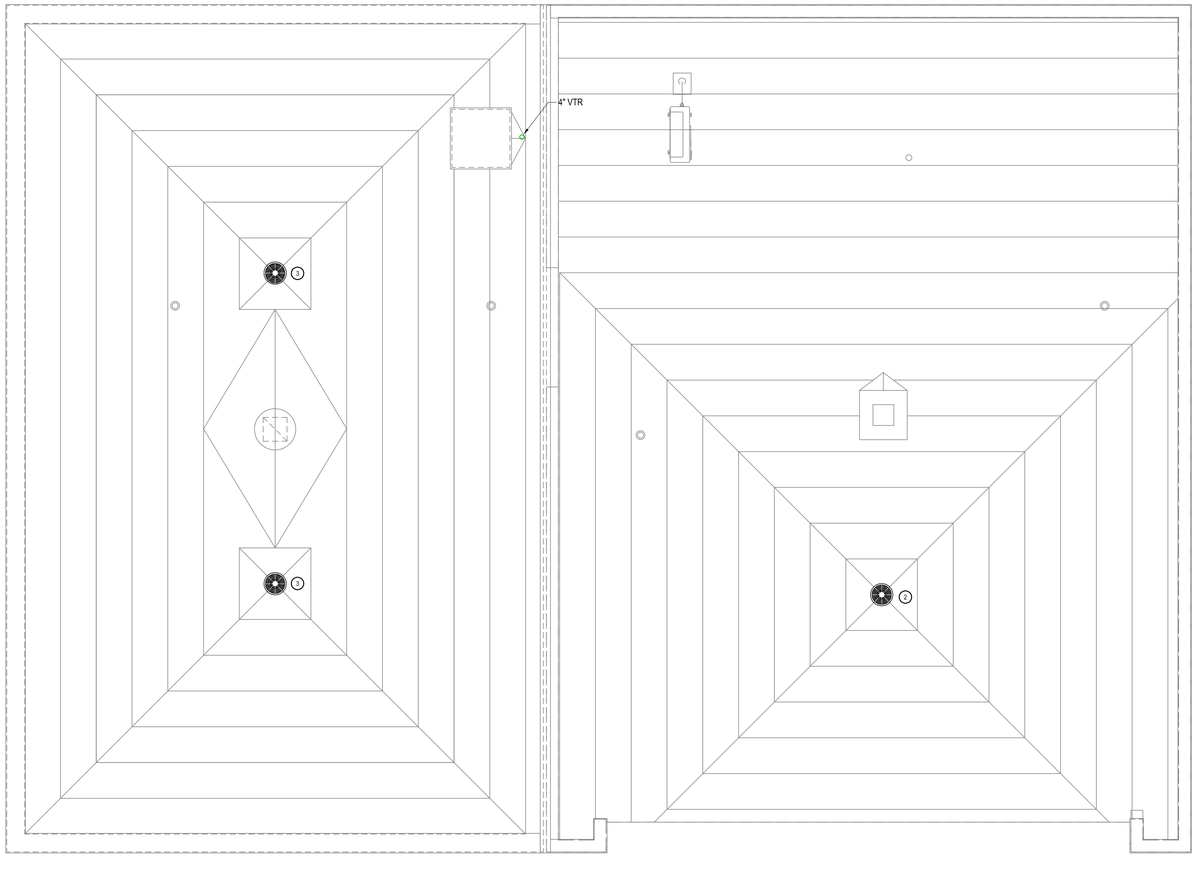
TAG	SPECIFICATION	DESIGN BASIS
FD-A	3" floor drain with trap seal and deep seal trap, Dura-Coated cast iron body with bottom outlet, combination invertible membrane clamp and adjustable collar with seepage slots and polished nickel bronze top. Sure Seal Model 3000 Inline Floor Drain Trap Sealer. Floor rating ASSE-1072 AF-GW.	ZURN Z415-ZN
DPCO-A	Adjustable floor cleanout, Dura-Coated cast iron body, with gas and watertight ABS tapered thread plug, and round scoriated polished nickel bronze secured top adjustable to finished floor.	ZURN Z1400

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	TRIM AND ACCESSORIES	MOUNTING	CONNECTIONS				BASIS OF DESIGN
				SAN	VENT	CW	HW	
WC-A	FLOOR MOUNTED PRESSURE ASSIST TOILET, 1.1 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL.	ELONGATED TOILET SEAT WITH SLOW CLOSE SNAP-OFF HINGES. QUARTER TURN WALL STOP. CHROME PLATED BRASS ONE-PIECE ESCUTCHEON.	FLOOR	3	2	½"	-	AMERICAN STANDARD CADET RIGHT HEIGHT MODEL 2467.100
UR-A	WALL MOUNTED HIGH EFFICIENCY URINAL, 0.12F GPF, WHITE VITREOUS CHINA, WASHOUT FLUSH.	SLOAN ROYAL 186-0.125-DBP MANUAL FLUSHOMETER. FLOOR MOUNTED CARRIER.	WALL	2	1½"	¾"	-	AMERICAN STANDARD DECORUM MODEL 6042.001EC
LAV-A	WALL-HUNG LAVATORY, 18-1/2" x 17" OVERALL. WHITE VITREOUS CHINA.	WALL HANGER. AMERICAN STANDARD MONTERREY SINGLE CONTROL CENTERSET FAUCET LESS POP-UP DRAIN. CHROME PLATED GRID STRAINER. QUARTER TURN WALL STOPS. 1-1/4" CAST BRASS TRAP. CHROME PLATED BRASS ONE-PIECE ESCUTCHEONS.	WALL	1½"	1½"	½"	½"	AMERICAN STANDARD DECLYN MODEL 0321.026
SH-A	- 2" PERFORATED CHROME PLATED BRASS SHOWER DRAIN ASSEMBLY.	SHOWER PACKAGE INCLUDING HANDSHOWER, SHOWERHEAD, 60" HANDSHOWER HOSE, WALL SUPPLY ELBOW, SHOWER ARM, WALL DIVERTER VALVE, PRESSURE BALANCE SHOWER VALVE, TRIM, POLISHED CHROME FINISH.	-	2"	1½"	½"	½"	KOHLER SHOWER PACKAGE: BELLWETHER K-9178 DRAIN COVER K-9159 SHOWER DRAIN K-9132 FORTE HANDSHOWER K-22165 FORTE SUPPLY ELBOW K-22174 FORTE SLIDEBAR TRIM KIT K-349 TRANSFER VALVE K-728-K TRANSFER VALVE TRIM K-T10290 SHOWER VALVE K-8304-KS SHOWER VALVE TRIM K-TS10276-4 30" SLIDEBAR K-8524 60" SHOWER HOSE K-9514

ELECTRIC WATER HEATER SCHEDULE

TAG	LOCATION	NO. OF ELEMENTS	ELEMENT WATTAGE (UPPER / LOWER)	OPERATION	MAX WORKING PRESSURE (PSIG)	CAPACITY (GAL)	RECOVERY		ELECTRICAL		DESIGN BASIS
							GPH	TEMP RISE	VOLTAGE	AMPS	
EWH-1	MECHANICAL 110	2	4500 / 4500	NON-SIMULTANEOUS	150	40	18	100	208/1	21.6	AO SMITH DEN-40



PLUMBING ROOF PLAN 1
1/4" = 1'-0"

DRAWING NOTES

1. CONNECT GAS TO UNIT HEATER INSTALLED BY M.C. PROVIDE DIRT LEG AND LISTED SHUTOFF VALVE.
2. ROOF DRAIN FURNISHED AND INSTALLED BY THE GC. CONNECT TO EXISTING ROOF LEADER.
3. EMERGENCY OVERFLOW TYPE ROOF DRAIN FURNISHED AND INSTALLED BY THE GC. PROVIDE STORM AND OVERFLOW PIPING AS INDICATED.
4. 4" EMERGENCY OVERFLOW ROOF DRAIN. DROP DOWN TO ZURN Z199 DOWNSPOUT NOZZLE 24" ABOVE GRADE.
5. 3/4" COLD SUPPLY TO HOSE BIB MOUNTED 36" AFF.

S / E / W / N

0 2' 4' 8'

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

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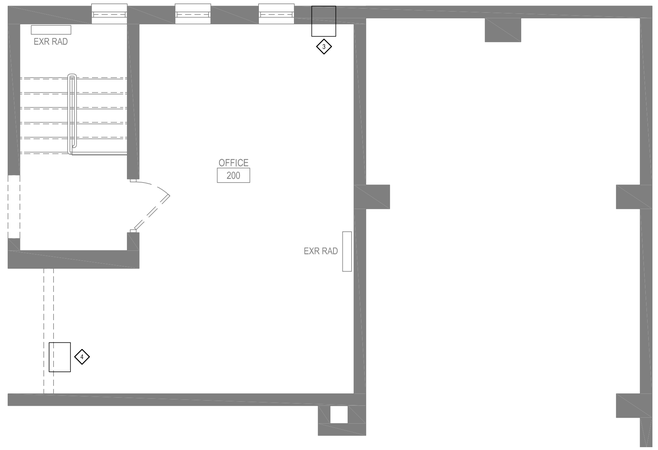
Sheet Title
PLUMBING ROOF PLAN

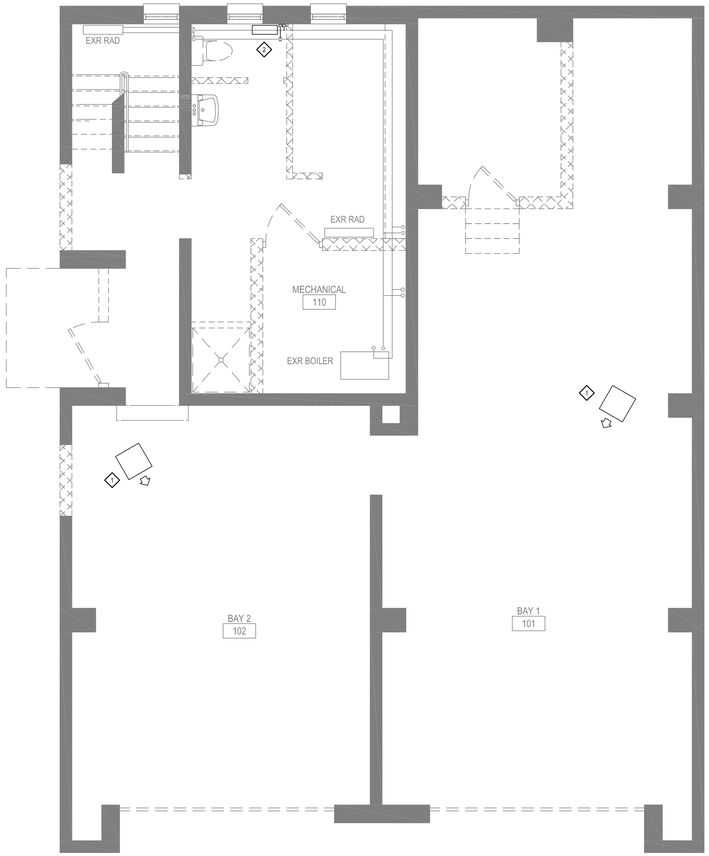
Sheet No.
P-3

CONSTRUCTION DOCUMENTS



SECOND FLOOR MECHANICAL DEMO PLAN 2

1/4" = 1'-0"



FIRST FLOOR MECHANICAL DEMO PLAN 1

1/4" = 1'-0"

Removal Notes

1. REMOVE SUSPENDED GAS-FIRED UNIT HEATER AND ASSOCIATED SUPPORTS, ATTACHMENTS, VENTING AND CONTROLS. PATCH WALL OPENINGS.
2. REMOVE WALL MOUNTED STEEL RADIATOR AND ASSOCIATED BRANCH PIPING.
3. REMOVE THRU-WALL A/C UNIT. WALL PATCH BY G.C.
4. REMOVE WINDOW A/C UNIT. WINDOW REPAIR BY G.C.

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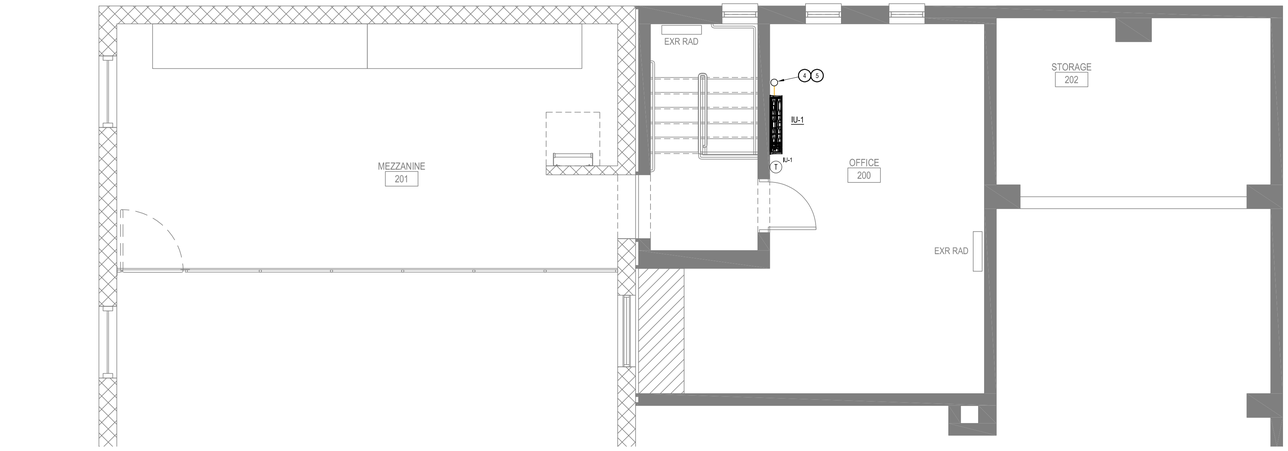
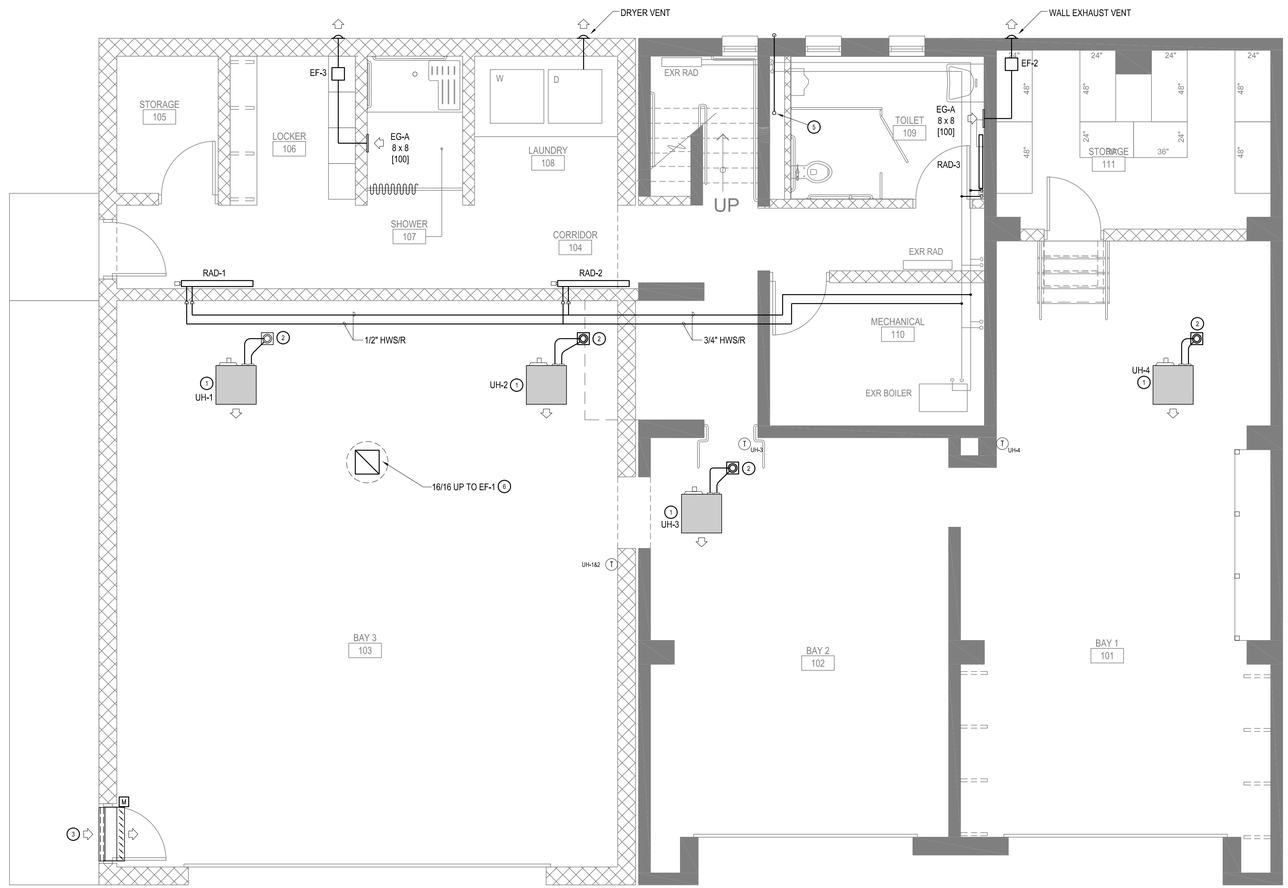
Sheet Title
MECHANICAL DEMO PLANS

Sheet No.
M-1

CONSTRUCTION DOCUMENTS



MEZZANINE PLAN 2
1/4" = 1'-0"



0 2' 4' 8'
GRAPHIC SCALE: 1/4" = 1'-0"

S E W N

FIRST FLOOR PLAN 1
1/4" = 1'-0"

General Notes

1. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF GENERAL WORK. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS, FOR PROPER DEMOLITION OF EXISTING WORK AND INCLUDE ALL MATERIALS AND LABOR IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
2. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT ALL AREAS OF PROPOSED WORK, AND EXAMINE ALL CONTRACT DOCUMENTS. VERIFY LOCATIONS WHERE THE NEW WORK IS BE ROUTED, COORDINATE WITH NEW AND EXISTING WORK AND PROVIDE CLEARANCES FROM STRUCTURE AND WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCLUDE ALL COSTS INCURRED THROUGH LIMITATIONS OF THE EXISTING AND NEW CONDITIONS. CLAIMS FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS ADDITIONAL WORK.
3. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF THE WORK AND INDICATE THE REQUIRED SIZE AND POINTS OF TERMINATION AND SUGGEST PROPER ROUTING OF THE WORK. IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. THE WORK SHALL BE COORDINATED WITH WORK OF OTHER TRADES TO PROVIDE NECESSARY CLEARANCES, AVOID OBSTRUCTIONS, MAXIMIZE HEADROOM, AND MAINTAIN EXISTING OPENINGS AND PASSAGEWAYS CLEAR.
4. MAINTAIN CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE AND REPAIR. MINOR ADJUSTMENTS MAY BE MADE TO ACCOMPLISH THIS. OBTAIN APPROVAL PRIOR TO MAKING ANY CHANGES THAT IMPACT CONTRACT COST.
5. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT COULD BE MOVED THROUGH THE BUILDING.
6. COORDINATE THE EXACT SIZE AND LOCATION OF THE NEW OPENINGS WITH EXISTING STRUCTURE. PATCH AND INSULATE AS REQUIRED. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING FIRE/ SMOKE BARRIERS. FIRE/SMOKE STOPPING SHALL BE 3M FIRE BARRIER CP 25 N/S CAULK UNLESS OTHERWISE NOTED.
7. IT IS THE INTENT OF THIS CONTRACT TO KEEP REMAINING SYSTEMS LEFT IN GOOD WORKING ORDER, READY FOR OPERATION, INCLUDING NECESSARY LABOR AND MATERIALS.
8. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST, WITHIN COST, WITHIN THIS CONTRACT PERIOD FOR SUBSTANTIAL COMPLETION.
9. THE CONTRACTOR SHALL REPAIR AND RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, AND DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR SHALL MAKE REPAIRS USING THE SAME MATERIALS, AT THE CONTRACTOR'S COST.
11. THE CONTRACTOR SHALL INCUR ALL COSTS AND BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT AND MATERIALS.
12. DAILY, DURING DEMOLITION AND DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS. ALL AREAS AND EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE CLEAN OF DUST AND DEBRIS BEFORE FINAL ACCEPTANCE BY THE OWNER.
13. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
14. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
15. OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC.
16. PAINT AND TOUCH-UP ALL SURFACES MARRED BY PERFORMANCE OF THE WORK.
17. ALL WORK DESCRIBED ON THE M-SERIES DRAWING SHEETS SHALL BE PERFORMED / FURNISHED & INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS OTHER WISED NOTED.
18. THE MECHANICAL CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN THE BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS (M.C.) MECHANICAL WORK.
19. MECHANICAL CONTRACTOR IS RESPONSIBLE TO CORE DRILL ALL NEW WALL/ FLOOR PENETRATIONS FOR PIPING REQUIRED FOR CONNECTION TO NEW EQUIPMENT.
20. ALL NEW PIPING PENETRATIONS SHALL INCLUDE PENETRATION SLEEVES LARGE ENOUGH TO INCLUDE PIPING INSULATION. REFER TO SPECIFICATIONS FOR SLEEVE TYPE.
21. ALL NEW ROOF TOP EQUIPMENT SHALL MAINTAIN A (10) TEN FOOT MINIMUM CLEARANCE DISTANCE FROM ROOF END.
22. M.C. IS RESPONSIBLE FOR ALL NECESSARY CONTROL WIRING FOR ALL EQUIPMENT LISTED.

Drawing Notes

1. NATURAL GAS-FIRED UNIT HEATER, SEPARATED COMBUSTION, 45 MBH INPUT CAPACITY, AXIAL FAN, 120 VAC, 2.4 FLA, 4" VENT, 4" COMBUSTION AIR INLET; REZNOR UDZ45 OR EQUAL.
2. PROVIDE CONCENTRIC ADAPTER BOX FOR VERTICAL VENT/INTAKE ASSEMBLY. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. 36 x 30 LOUVER ABOVE DOOR WITH LOW LEAKAGE DAMPER AND 120VAC ACTUATOR.
4. REFRIGERANT LINE SET, POWER AND CONTROL WIRING UP THROUGH ROOF TO OUTDOOR UNIT. SEE ROOF PLAN FOR CONTINUATION.
5. 3/4" SCHEDULE 80 PVC CONDENSATE DRAIN. OFFSET THROUGH EXTERIOR WALL 12" AFG. SPILL TO GRADE.
6. TRANSITION TO 24/24 HEMMED EDGE WITH BIRD SCREEN.

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Sheet Title
MECHANICAL PLANS

Sheet No.
M-2

CONSTRUCTION DOCUMENTS

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

INDOOR UNIT DATA								OUTDOOR UNIT DATA										SYSTEM DATA				
TAG	LOCATION	TYPE	MCA	FLA	WEIGHT (LBS)	COOLING AIRFLOW DRY COIL (CFM)	DESIGN BASIS	TAG	LOCATION	WEIGHT (LBS)	REFRIGERANT	HEATING MODE OPERATING RANGE (°F)	COOLING MODE OPERATING RANGE (°F)	ELECTRICAL	MCA	MOCP	DESIGN BASIS	RATED COOLING CAPACITY AT 95°F (BTUH)	HEATING AT 47°F	HEATING AT 17°F	SEER	NOTES
IU-1	OFFICE 200	WALL MOUNT	1	0.19	28	265-310-385-455	TRANE TPKA0A0181LA0OA	OU-1	ROOF	100	R410A	12 - 70	0 - 115	208/1	11	25	TRANE TRUZA0181KA70A	18,000	19,000	13,600	19.8	(1) (2)

1. PROVIDE QUICK-SLING MINI-SPLIT STAND FOR ROOF MOUNTED OUTDOOR UNIT.
2. PROVIDE TAR-CT01MAU-SB TOUCH MA CONTROLLER.

PANEL RADIATOR SCHEDULE

TAG	DIMENSIONS			BTU OUTPUT			DESIGN BASIS		NOTES
	HEIGHT	LENGTH	DEPTH	180°F	160°F	140°F	BUDERUS MODEL 21 (PART NUMBER)	BUDERUS MODEL 22 (PART NUMBER)	
RAD-1	24	48	4	8139	6092	4218	-	7-750-103-612	(1) (2)
RAD-2	24	48	4	8139	6092	4218	-	7-750-103-612	(1) (2)
RAD-3	24	36	2.5	4706	3526	2443	7-750-103-309	-	(1) (2)

1. PROVIDE ISOLATION VALVES AT RADIATOR SUPPLY AND RETURN CONNECTION.
2. PROVIDE DANFOSS THERMOSTATIC RADIATOR VALVE.

FAN SCHEDULE

TAG	SERVICE	TYPE	CFM	S.P. (IN. W.C.)	RPM	BHP	DRIVE	SONES	ELECTRICAL			MOTOR CONTROL	DESIGN BASIS	NOTES
									HP	WATTS	VOLTAGE	TYPE		
EF-1	BAY 3	ROOF DOWNBLAST	1792	0.375	1140	0.31	DIRECT	10.4	1/3	-	115	WALL SWITCH BY E.C.	GREENHECK G-140	(1)
EF-2	TOILET 109	REMOTE INLINE	108	0.30	1596	-	DIRECT	-	-	25.6	115	WALL SWITCH BY E.C.	PANASONIC FV-10NLF1E	
EF-3	SHOWER 107	REMOTE INLINE	108	0.30	1596	-	DIRECT	-	-	25.6	115	WALL SWITCH BY E.C.	PANASONIC FV-10NLF1E	

1. PROVIDE 14" ROOF CURB WITH BACKDRAFT DAMPER.

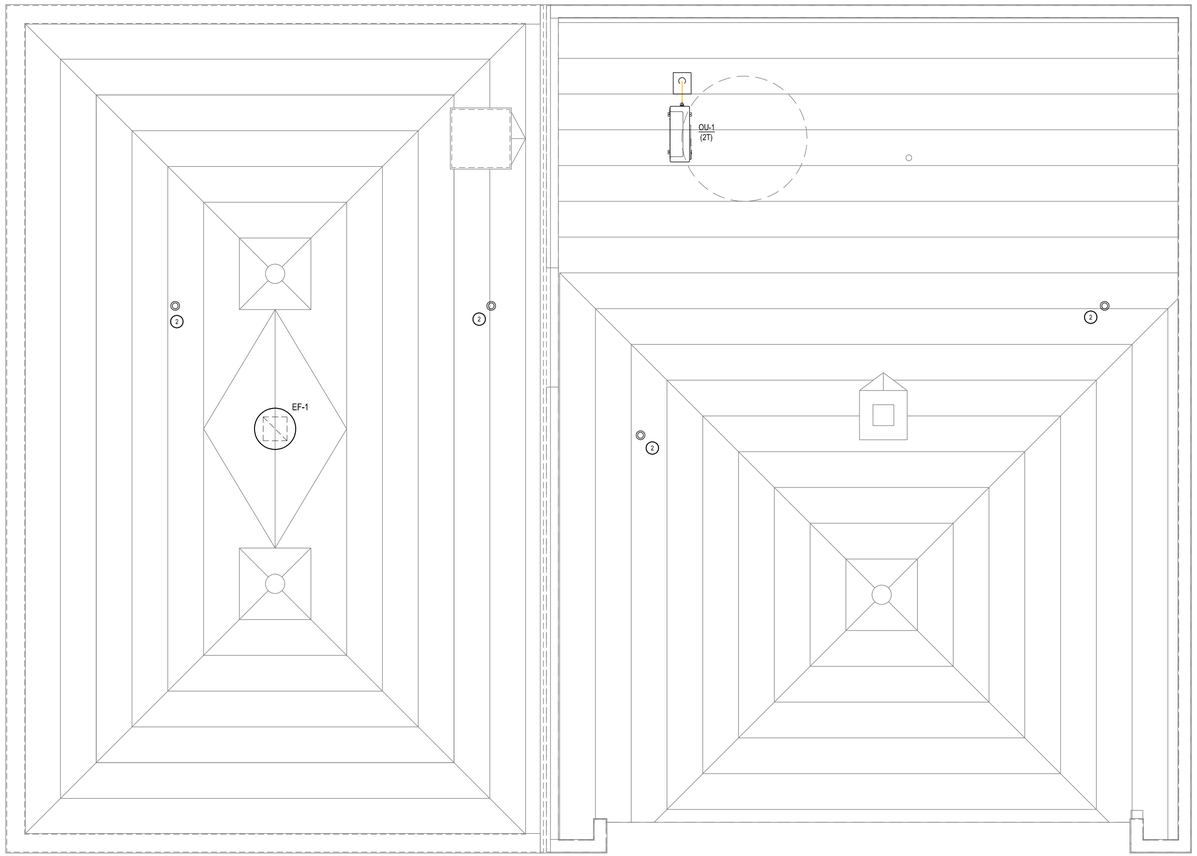
GRILLE SCHEDULE

TAG	TYPE	DUCT SIZE	BLADE SPACING	BLADE TYPE	MOUNTING	BORDER STYLE	FASTENING	MATERIAL	FINISH	BLADE ORIENTATION	DESIGN BASIS
EG-A	EXHAUST GRILLE	8 x 8	1/2	45° FIXED	SURFACE	FILTER FRAME	CONCEALED BRACKET	ALUMINUM	WHITE	NA	PRICE 635

GAS-FIRED UNIT HEATER SCHEDULE

TAG	HEATING CAPACITY			VENT DIA. (IN)	COMBUSTION INLET DIA. (IN)	WEIGHT	FAN DATA					ELECTRICAL DATA			DESIGN BASIS	NOTES
	FUEL	INPUT (MBH)	OUTPUT (MBH)				TYPE	SIZE	HP	AIRFLOW (CFM) MAX	AIRFLOW (CFM) MIN	VOLTAGE	MOCP	UNIT FLA		
UH-1	NATURAL GAS	60	49.2	4	4	103	BLOWER	9x6	1/3	1012	607	115	15	7.1	REZNOR UBZ-60	(1) (2) (3) (4) (5)
UH-2	NATURAL GAS	60	49.2	4	4	103	BLOWER	9x6	1/3	1012	607	115	15	7.1	REZNOR UBZ-60	(1) (2) (3) (4) (5)
UH-3	NATURAL GAS	60	49.2	4	4	103	BLOWER	9x6	1/3	1012	607	115	15	7.1	REZNOR UBZ-60	(1) (2) (3) (4) (5)
UH-4	NATURAL GAS	60	49.2	4	4	103	BLOWER	9x6	1/3	1012	607	115	15	7.1	REZNOR UBZ-60	(1) (2) (3) (4) (5)

1. PROVIDE TYPE 409 STAINLESS STEEL HEAT EXCHANGERS.
2. VERTICAL COMBUSTION VENT KIT WITH CONCENTRIC ADAPTER.
3. INTEGRATED 60° DOWNTURN NOZZLES.
4. FACTORY DISCONNECT SWITCH.
5. 24VAC CONTROL TRANSFORMER AND SPACE THERMOSTAT.



MECHANICAL ROOF PLAN 1
1/4" = 1'-0"

DRAWING NOTES

1. NATURAL GAS-FIRED UNIT HEATER, SEPARATED COMBUSTION, 45 MBH INPUT CAPACITY, AXIAL FAN, 120 VAC, 2.4 FLA, 4" VENT, 4" COMBUSTION AIR INLET; REZNOR UDZ45 OR EQUAL.
2. PROVIDE CONCENTRIC ADAPTER BOX FOR VERTICAL VENT/INTAKE ASSEMBLY. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. 36 x 30 LOUVER ABOVE DOOR WITH LOW LEAKAGE DAMPER AND 120VAC ACTUATOR.
4. REFRIGERANT LINE SET, POWER AND CONTROL WIRING UP THROUGH ROOF TO OUTDOOR UNIT. SEE ROOF PLAN FOR CONTINUATION.
5. 3/4" SCHEDULE 80 PVC CONDENSATE DRAIN. OFFSET THROUGH EXTERIOR WALL 12" AFG. SPILL TO GRADE.
6. TRANSITION TO 24/24 HEMMED EDGE WITH BIRD SCREEN.

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1			

Drawn By:	ks
Checked By:	ks
BDS Proj. #:	21-01
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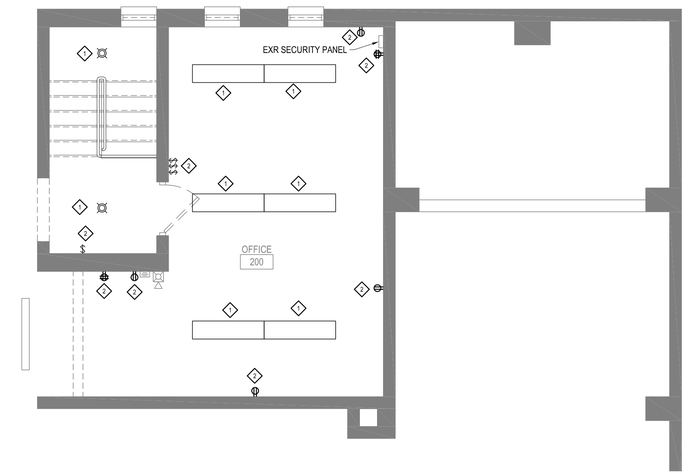
Sheet Title
MECHANICAL ROOF PLAN

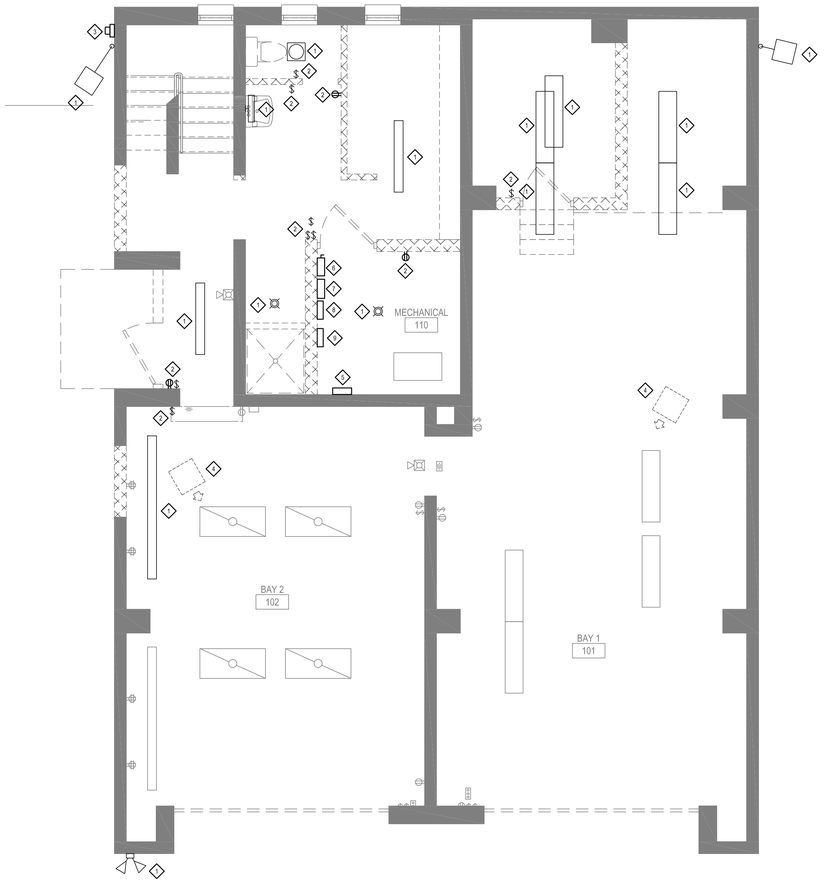
Sheet No.
M-3

CONSTRUCTION DOCUMENTS



SECOND FLOOR ELECTRICAL DEMO PLAN 2

1/4" = 1'-0"



FIRST FLOOR ELECTRICAL DEMO PLAN 1

1/4" = 1'-0"

S
E W
N

0 2' 4' 8'

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

Removal Notes

1. REMOVE LUMINAIRE AND ASSOCIATED SUPPORTS, SWITCHING, BOXES, AND BRANCH CIRCUIT WIRING BACK TO SOURCE.
2. REMOVE ELECTRICAL DEVICE AND ASSOCIATED RACEWAYS, WIRING, BOXES AND ATTACHMENTS. ABANDON EMBEDDED ITEMS AND PATCH SURFACES TO MATCH.
3. REMOVE ELECTRICAL SERVICE INCLUDING METER, OVERHEAD SERVICE CONDUCTORS AND ATTACHMENTS.
4. DISCONNECT POWER AT UNIT HEATER AND REMOVE ASSOCIATED BRANCH CIRCUIT BACK TO SOURCE.
5. DISCONNECT TANKLESS ELECTRIC WATER HEATER AND REMOVE ASSOCIATED BRANCH CIRCUIT BACK TO SOURCE.
6. REMOVE 100A SERVICE DISCONNECT.
7. REMOVE 100A PANELBOARD. PULL BACK EXISTING BRANCH CIRCUIT WIRING AND MAINTAIN FOR RECONNECTION TO PROPOSED PANELBOARD.
8. REMOVE SUB-PANEL. PULL BACK EXISTING BRANCH CIRCUIT WIRING AND MAINTAIN FOR RECONNECTION TO PROPOSED PANELBOARD.
9. SALVAGE CARBON MONOXIDE CONTROL PANEL (MACURCO DVP-120) FOR RELOCATION. REMOVE POWER CONNECTION AND MAINTAIN SENSOR AND STROBE LOW VOLTAGE WIRING CONNECTIONS FOR REUSE.

Legend

	PANELBOARD
PNL	BRANCH CIRCUIT HOMERUN, 1 POLE (2) #12, #12G, [*C UON, PNL = PANEL NAME
PNL	BRANCH CIRCUIT HOMERUN, 2 POLE (3) #12, #12G, [*C UON, PNL = PANEL NAME
PNL	BRANCH CIRCUIT HOMERUN, 3 POLE (4) #12, #12G, [*C UON, PNL = PANEL NAME
	BRANCH CIRCUIT CONTINUED ON ANOTHER PLAN/FLOOR
$M	MANUAL MOTOR STARTER
	NON-FUSED DISCONNECT SWITCH
VS	VACANCY SENSOR
$	SINGLE POLE SWITCH
$3	THREE-WAY SWITCH
$F	FAN SWITCH
	GFI RECEPTACLE (20A/125VAC)
	GFI RECEPTACLE (20A/125VAC)
*+	DUPLEX RECEPTACLE (ABOVE COUNTER) COORDINATE MOUNTING HEIGHT WITH ARCHITECT
WP	DUPLEX RECEPTACLE (20A/125 VAC) WEATHERPROOF ENCLOSURE
J	JUNCTION BOX

Abbreviations

A	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
℄	CENTER LINE
CT	CURRENT TRANSFORMER
CU	COPPER
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
DN	DOWN
DWG	DRAWING
E, EX	EXISTING
EC	ELECTRICAL CONTRACTOR
ERL	EXISTING TO BE RELOCATED
EM	EMERGENCY
EXR	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FBO	FURNISHED BY OTHERS (OWNER)
FC	FOOTCANDLE
FLA	FULL LOAD AMPERES
GC	GENERAL CONTRACTOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G, GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
JB	JUNCTION BOX
K	KILO (THOUSAND)
KCMIL	THOUSAND CIRCULAR MILLS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOURS
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OCPD	OVER CURRENT PROTECTION DEVICE
OH	OVERHEAD
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PC	PHOTOCELL, PLUMBING CONTRACTOR
PF	POWER FACTOR
PNL	PANEL
PH	PHASE
PL	PILOT LIGHT
PM	PLUG MOLD
PP	POWER PANEL
PWR	POWER
REC	RECEPTACLE
REQ'D	REQUIRED
RM	ROOM
RMS	ROOT MEAN SQUARED
RSC	RIGID STEEL CONDUIT
RTU	ROOFTOP UNIT
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
VA	VOLT AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WG	WIRE GUARD
WM	WIRE MOLD
WP	WEATHERPROOF
XFMR	TRANFORMER

General Notes

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NEC, APPLICABLE LOCAL & STATE CODES, AND SPECIFICATIONS.
2. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CONNECTIONS TO ELECTRICAL EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.
5. EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCY BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ENGINEER'S ATTENTION PRIOR TO COMMENCING WORK.
6. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK INDICATED. PROVIDE RELATED WORK AS NECESSARY FOR COMPLETE AND FUNCTIONAL SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES.
7. ALL WORK SHALL BE PERFORMED BY AN ELECTRICAL CONTRACTOR LICENSED IN THE PROJECT LOCATION. ARRANGE AND PAY ALL FEES FOR CERTIFIED THIRD PARTY ELECTRICAL INSPECTIONS. SUBMIT COPIES OF ALL INSPECTION CERTIFICATES PRIOR TO FINAL PAYMENT APPLICATION.
8. REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM ALL WORK INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK. COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS.
11. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
13. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
14. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
15. ALL WIRING SHALL BE 1#12+1#12(N)+1#12(G)-3/4"C, OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. CONCEAL BRANCH CIRCUITS ABOVE CEILINGS, VOIDS, & CHASES.
16. WIRING INSTALLED ABOVE CEILINGS SHALL BE SUPPORTED INDEPENDENT OF CEILING SYSTEM AND SECURED TO BUILDING STRUCTURE.
17. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.
18. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISIBLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE 20A RATED, TAMPERPROOF, WITH OPERATING NOTIFICATION INDICATING LIGHT.
19. ALL DEVICES AFFECTED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
20. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
21. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
22. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.
23. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
24. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
25. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
26. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
27. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
28. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD.
29. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
30. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
31. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
32. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
33. PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

No	Date	Revision	By
4			
3			
2			
1			

Drawn By:	ks
Checked By:	ks
BDS Proj. #:	21-01
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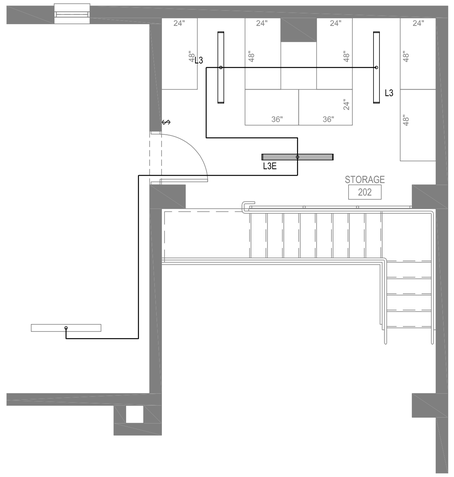
Sheet Title
ELECTRICAL DEMO PLANS

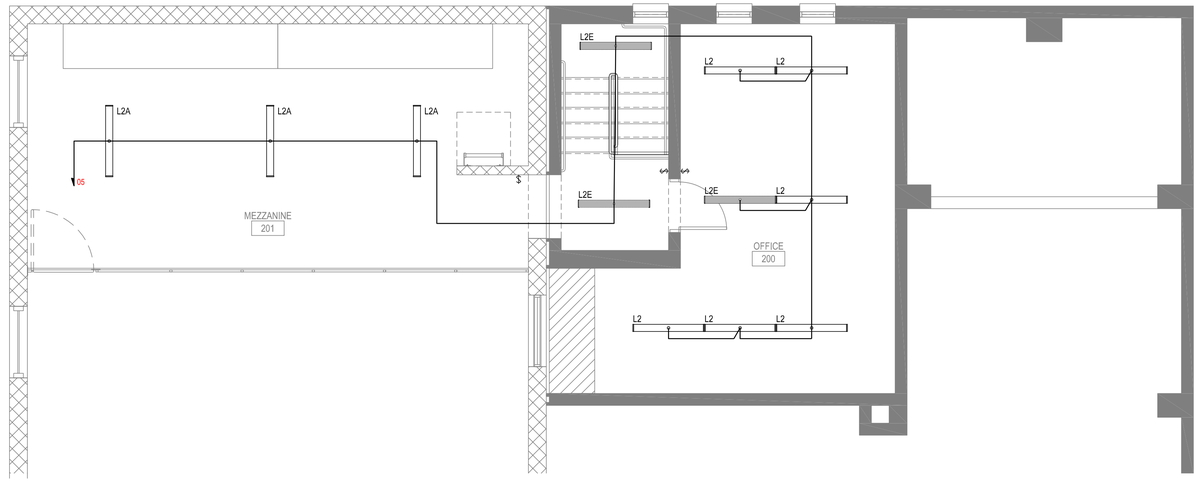
Sheet No.
E-1

CONSTRUCTION DOCUMENTS



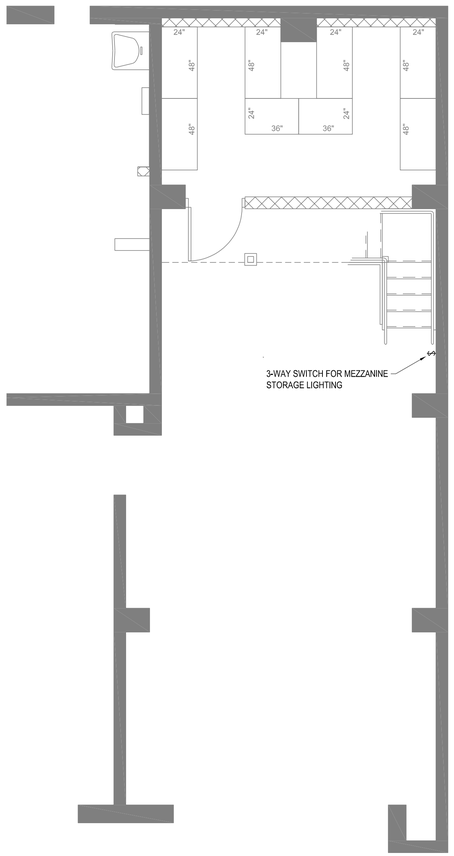
MEZZANINE LIGHTING PLAN - ALTERNATE 4

1/4" = 1'-0"



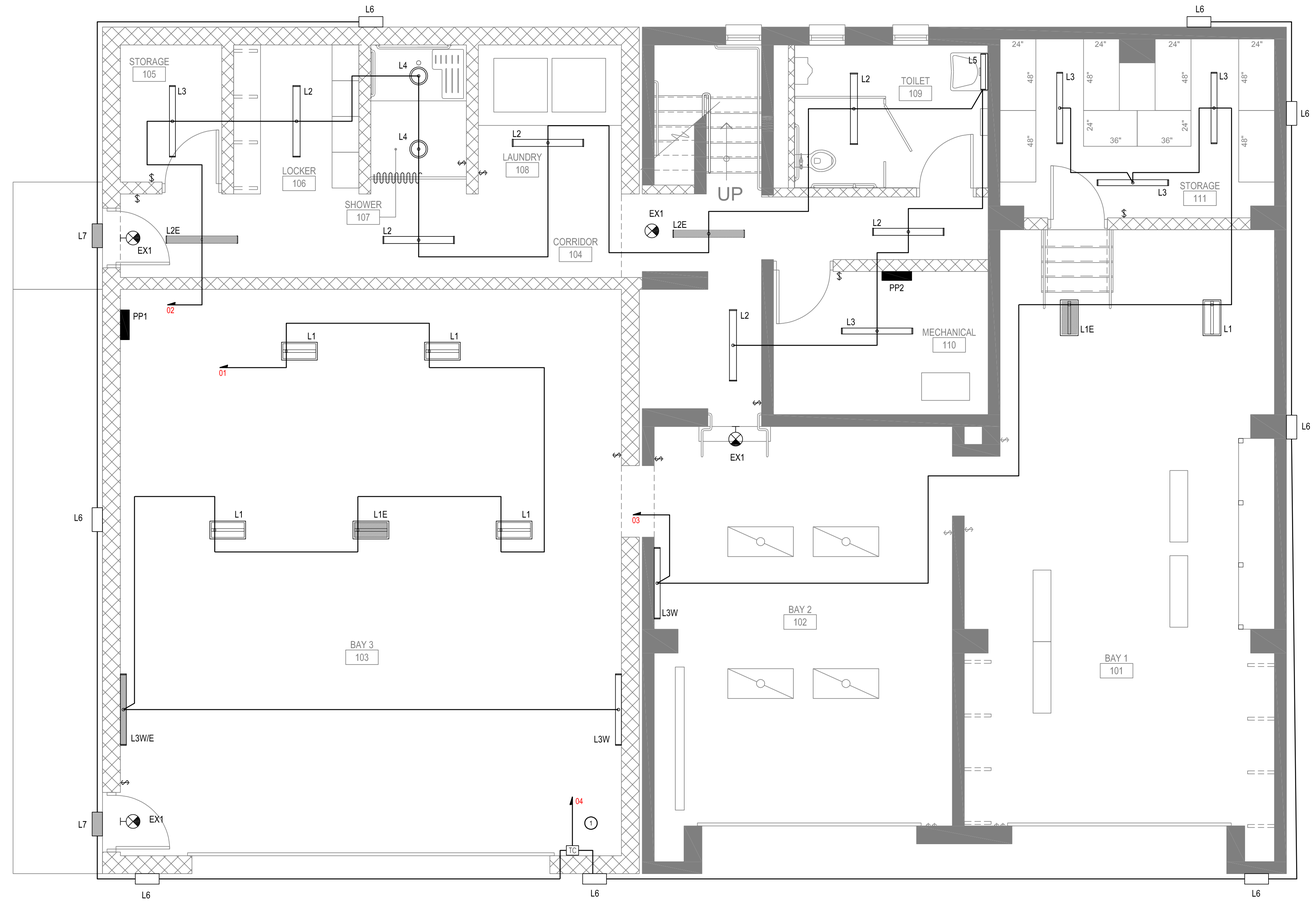
MEZZANINE LIGHTING PLAN - BASE BID 2

1/4" = 1'-0"



FIRST FLOOR LIGHTING PLAN - ALTERNATE 3

1/4" = 1'-0"



FIRST FLOOR LIGHTING PLAN - BASE BID 1

1/4" = 1'-0"

LIGHTING NOTES

1. PROGRAMMABLE TIME CLOCK CONTROLLER FOR EXTERIOR LIGHTING WITH PHOTOCELL.

S
E W
N

0 2' 4' 8'

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

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WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

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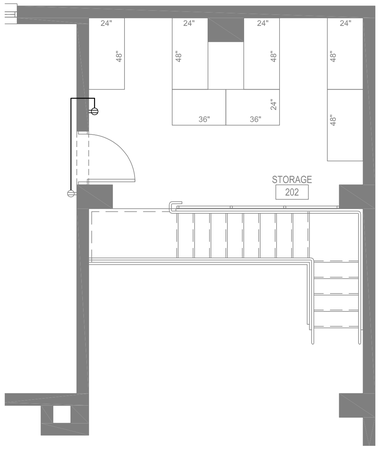
Sheet Title
LIGHTING PLANS

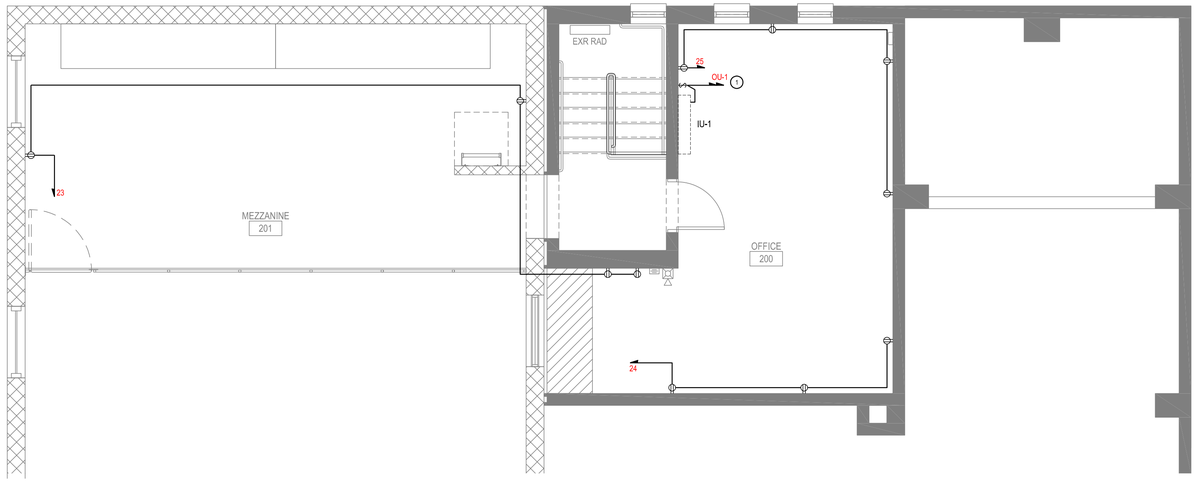
Sheet No.
E-2

CONSTRUCTION DOCUMENTS



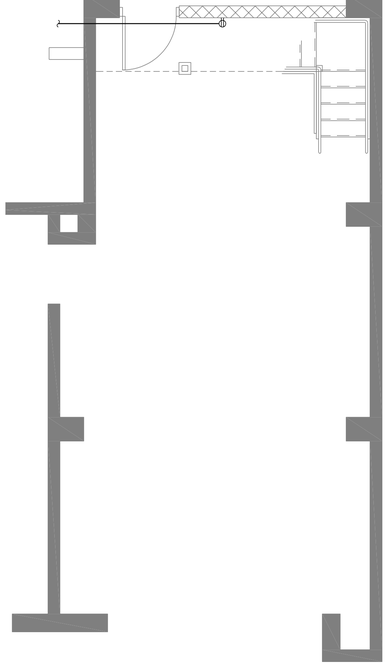
MEZZANINE POWER PLAN - ALTERNATE 4

1/4" = 1'-0"



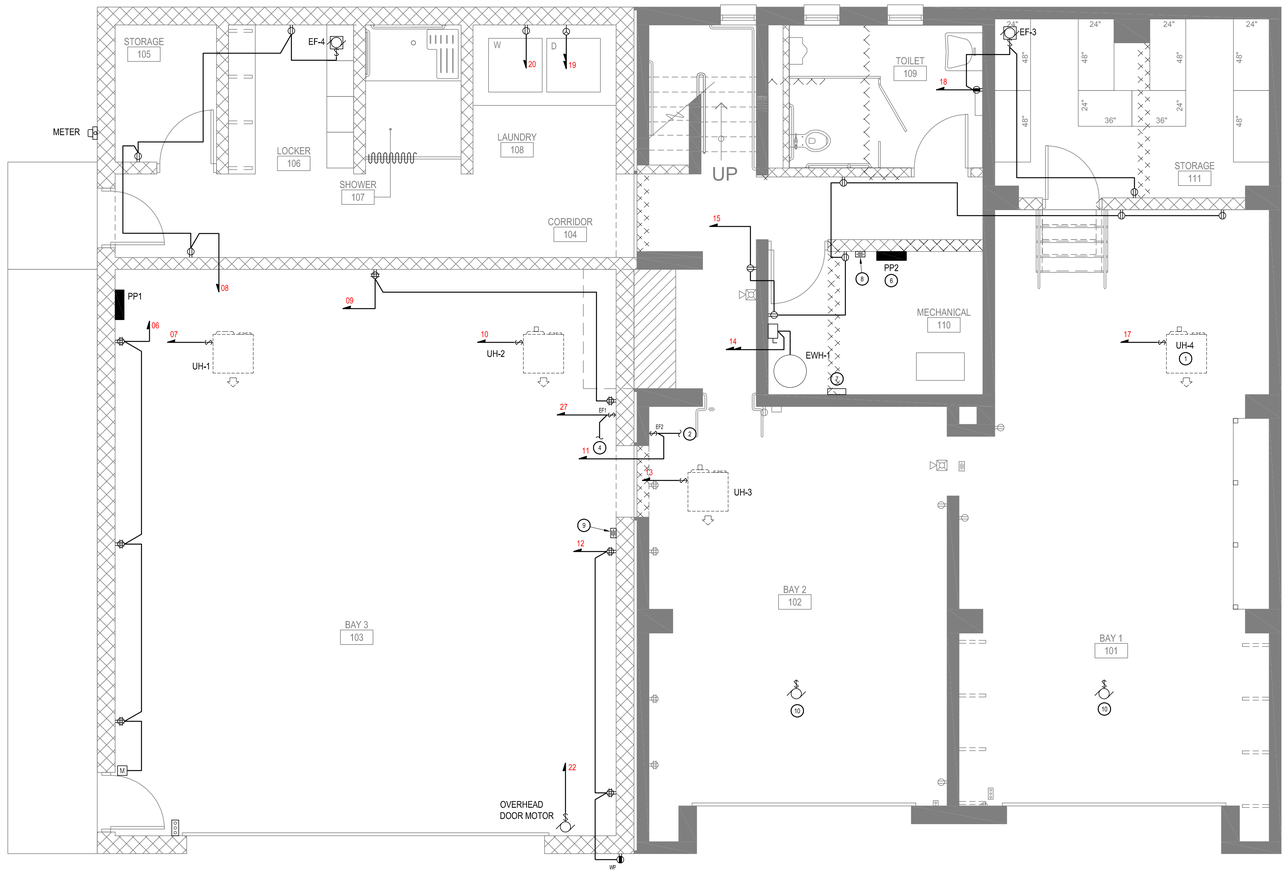
MEZZANINE POWER PLAN - BASE BID 2

1/4" = 1'-0"



FIRST FLOOR POWER PLAN - ALTERNATE 3

1/4" = 1'-0"



FIRST FLOOR POWER PLAN - BASE BID 1

1/4" = 1'-0"

POWER NOTES

1. INSTALL POWER/CONTROL CABLE BETWEEN INDOOR UNIT AND OUTDOOR UNIT. PROVIDE 15A 2P DISCONNECT SWITCH AT INDOOR UNIT.
2. TO EF-2 ON ROOF. SEE ROOF PLAN.
3. FROM FIRST FLOOR. SEE NOTE 2.
4. TO EF-1 ON ROOF. SEE ROOF PLAN.
5. FROM FIRST FLOOR. SEE NOTE 4.
6. RECONNECT EXISTING BRANCH CIRCUITS TO PP2. FIELD VERIFY EXISTING CIRCUITS PRIOR TO ORDERING CIRCUIT BREAKERS.
7. RELOCATE CARBON MONOXIDE CONTROL PANEL AND RECONNECT SENSOR AND ALARM WIRING.
8. RELOCATE CARBON MONOXIDE SENSOR.
9. PROVIDE ADDITIONAL CO SENSOR TO MATCH EXISTING (MACURCO CM-6) AND CONNECT TO EXISTING CO SYSTEM CONTROL PANEL IN ROOM 110.
10. DISCONNECT EXISTING OVERHEAD DOOR MOTOR AND RECONNECT POWER TO REPLACEMENT MOTOR.

S
E W
N

0 2' 4' 8'

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

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Sheet Title
POWER PLANS

Sheet No.
E-3

CONSTRUCTION DOCUMENTS

PANELBOARD SCHEDULE

PP1

VOLTAGE	220 VOLTS
PHASE	1 PHASE
RATING	22 KAIC, SE RATED
MAINS	225A, COPPER
BREAKER	225A
ENCLOSURE	NEMA 1 SURFACE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	KVA	REMARKS
1	LIGHTING - 103	20A	1	0,75	
2	LIGHTING - 104, 105, 106, 107, 108, 109, 110	20A	1	0,42	
3	LIGHTING - 101, 111	20A	1	0,40	
4	EXTERIOR LIGHTING	20A	1	0,72	
5	LIGHTING - 200, 201, 202	20A	1	0,51	
6	RECEPTACLES - 103	20A	1	1,08	GFCI BREAKER
7	UH-1	15A	1	0,90	
8	RECEPTACLES - 104, 105, 106, EF-4	20A	1	0,57	
9	RECEPTACLES - 103	20A	1	0,72	GFCI BREAKER
10	UH-2	15A	1	0,90	
11	EF-2	20A	1	0,25	
12	RECEPTACLES - 103, EXTERIOR	20A	1	0,90	GFCI BREAKER
13	UH-3	15A	1	0,90	
14	WATER HEATER	40A	2	4,50	
15	RECEPTACLES - 101, 104, 110	20A	1	1,08	GFCI BREAKER
16	SPARE	20A	1	-	
17	UH-4	15A	1	0,90	
18	RECEPTACLES - 109, 111, EF-3	20A	1	0,40	
19	DRYER	40A	2	5,00	
20	LIGHTING	20A	1	1,40	
21	WASHER	20A	1	1,30	
22	SPARE	20A	1	–	
23	RECEPTACLES - 200, 201	20A	1	0,72	
24	RECEPTACLES - 200	20A	1	0,54	
25	RECEPTACLES - 200, 202	20A	1	0,90	
26	OU-1 (ROOF)	25A	2	2,40	
27	EF-1	20A	1	0,25	
28	SUBFEED PANEL PP2	100A	2	10,0	
28	SPARE	20A	1	–	
28	SPARE	20A	1	–	
28	SPARE	20A	1	–	
29	SPARE	20A	1	–	
30	SPARE	20A	1	–	
31	SPARE	20A	1	–	
32	SPARE	20A	1	–	
33	SPARE	20A	1	–	
34	SPARE	20A	1	–	
35	SPARE	20A	1	–	
	TOTAL POLES		42	38,41	PANEL TOTAL (KVA)
				0,9	DEMAND FACTOR
				34,57	DEMAND KVA
				157	DEMAND AMPS

PANELBOARD SCHEDULE

PP2

VOLTAGE	220 VOLTS
PHASE	1 PHASE
RATING	22 KAIC
MAINS	100A, COPPER
BREAKER	MLO
ENCLOSURE	NEMA 1 SURFACE

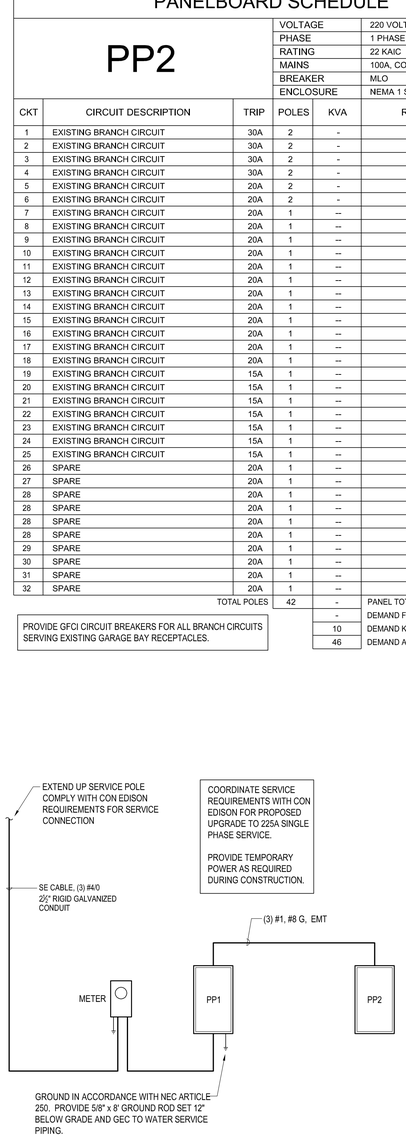
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	KVA	REMARKS
1	EXISTING BRANCH CIRCUIT	30A	2	-	
2	EXISTING BRANCH CIRCUIT	30A	2	-	
3	EXISTING BRANCH CIRCUIT	30A	2	-	
4	EXISTING BRANCH CIRCUIT	30A	2	-	
5	EXISTING BRANCH CIRCUIT	20A	2	-	
6	EXISTING BRANCH CIRCUIT	20A	2	-	
7	EXISTING BRANCH CIRCUIT	20A	1	--	
8	EXISTING BRANCH CIRCUIT	20A	1	--	
9	EXISTING BRANCH CIRCUIT	20A	1	--	
10	EXISTING BRANCH CIRCUIT	20A	1	--	
11	EXISTING BRANCH CIRCUIT	20A	1	--	
12	EXISTING BRANCH CIRCUIT	20A	1	--	
13	EXISTING BRANCH CIRCUIT	20A	1	--	
14	EXISTING BRANCH CIRCUIT	20A	1	--	
15	EXISTING BRANCH CIRCUIT	20A	1	--	
16	EXISTING BRANCH CIRCUIT	20A	1	--	
17	EXISTING BRANCH CIRCUIT	20A	1	--	
18	EXISTING BRANCH CIRCUIT	20A	1	--	
19	EXISTING BRANCH CIRCUIT	15A	1	--	
20	EXISTING BRANCH CIRCUIT	15A	1	--	
21	EXISTING BRANCH CIRCUIT	15A	1	--	
22	EXISTING BRANCH CIRCUIT	15A	1	--	
23	EXISTING BRANCH CIRCUIT	15A	1	--	
24	EXISTING BRANCH CIRCUIT	15A	1	--	
25	EXISTING BRANCH CIRCUIT	15A	1	--	
26	SPARE	20A	1	--	
27	SPARE	20A	1	--	
28	SPARE	20A	1	--	
28	SPARE	20A	1	--	
28	SPARE	20A	1	--	
28	SPARE	20A	1	--	
29	SPARE	20A	1	--	
30	SPARE	20A	1	--	
31	SPARE	20A	1	--	
32	SPARE	20A	1	--	
	TOTAL POLES		42	-	PANEL TOTAL (KVA)
				-	DEMAND FACTOR
				10	DEMAND KVA
				46	DEMAND AMPS

PROVIDE GFCI CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS SERVING EXISTING GARAGE BAY RECEPTACLES.

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	LAMP	DRIVER	VOLTAGE	DELIVERED LUMENS	EFFICACY (LM/W)	WATTS	MOUNTING	DESIGN BASIS	NOTES
L1	LED LINEAR HIGHBAY LENSED	LED 4000K	0-10V DIMMING	120	18,500	140	132	SUSPENDED AT 14' AFF	METALUX LHB-18-UNV-L840-CD	(1)
L1E	LED LINEAR HIGHBAY LENSED	LED 4000K	0-10V DIMMING	120	18,500	140	132	SUSPENDED AT 14' AFF	METALUX LHB-18-UNV-L840-CD-EL14W-REM	(1) (2)
L2	4' LED UTILITY WRAP LIGHT	LED 4000K	NO DIMMING	120	3588	114	31.4	SURFACE	METALUX 4WP3040C	
L2E	4' LED UTILITY WRAP LIGHT	LED 4000K	NO DIMMING	120	3588	114	31.4	SURFACE	METALUX 4WP3040C-EBPLED14W	(2)
L2A	4' LED UTILITY WRAP LIGHT	LED 4000K	NO DIMMING	120	3588	114	31.4	SUSPENDED	METALUX 4WP3040C	(1)
L3	VANDAL RESISTANT LED 4' STRIP	LED 4000K	NO DIMMING	120	4443	100	44.5	SURFACE	METALUX FVS4M-4-LD4-1HI-40-UNV-P125-EDC1	
L3E	VANDAL RESISTANT LED 4' STRIP	LED 4000K	NO DIMMING	120	4443	100	44.5	SURFACE	METALUX FVS4M-4-LD4-1HI-40-UNV-P125-EDC1=EL14W	(2)
L3W	VANDAL RESISTANT LED 4' STRIP	LED 4000K	NO DIMMING	120	7124	105	67.5	WALL	METALUX FVS4WM-4-LD4-2STD-40-UNV-P125-EDC1	
L4	12" ROUND SURFACE MOUNT DOWNLIGHT	LED 4000K	0-10V	120	2395	90	26	SURFACE	HALO SMD12R-20-9S-WH-E	
L5	WALL BRACKET LED	LED 4000K	0-10V DIMMING	120	2000	-	23	WALL	METALUX 2BCLED-LD4-20SL-F-UNV-L840-CD1	
L6	EXTERIOR WALL MOUNT LUMINAIRE	LED 4000K	NO DIMMING	120	7706	-	75	WALL	LUMARK WPSQLED-75	
L7	EXTERIOR LED EMERGENCY WALL PACK	LED 4000K	NO DIMMING	120	6038	-	58	WALL	LUMARK XTOR6B-W-CBP	
EX1	WALL/CEILING MOUNT EXIT SIGN	LED	_	120	-	-	1.0	WALL / CEILING	COOPER SURE-LITES APX7R	

LIGHTING FIXTURE SCHEDULE NOTES:
1. WIRE HOOK AND CHAIN MOUNTING SET.
2. EMERGENCY BATTERY PACK, REMOTE, 14W.
3. PHOTOCELL CONTROL.



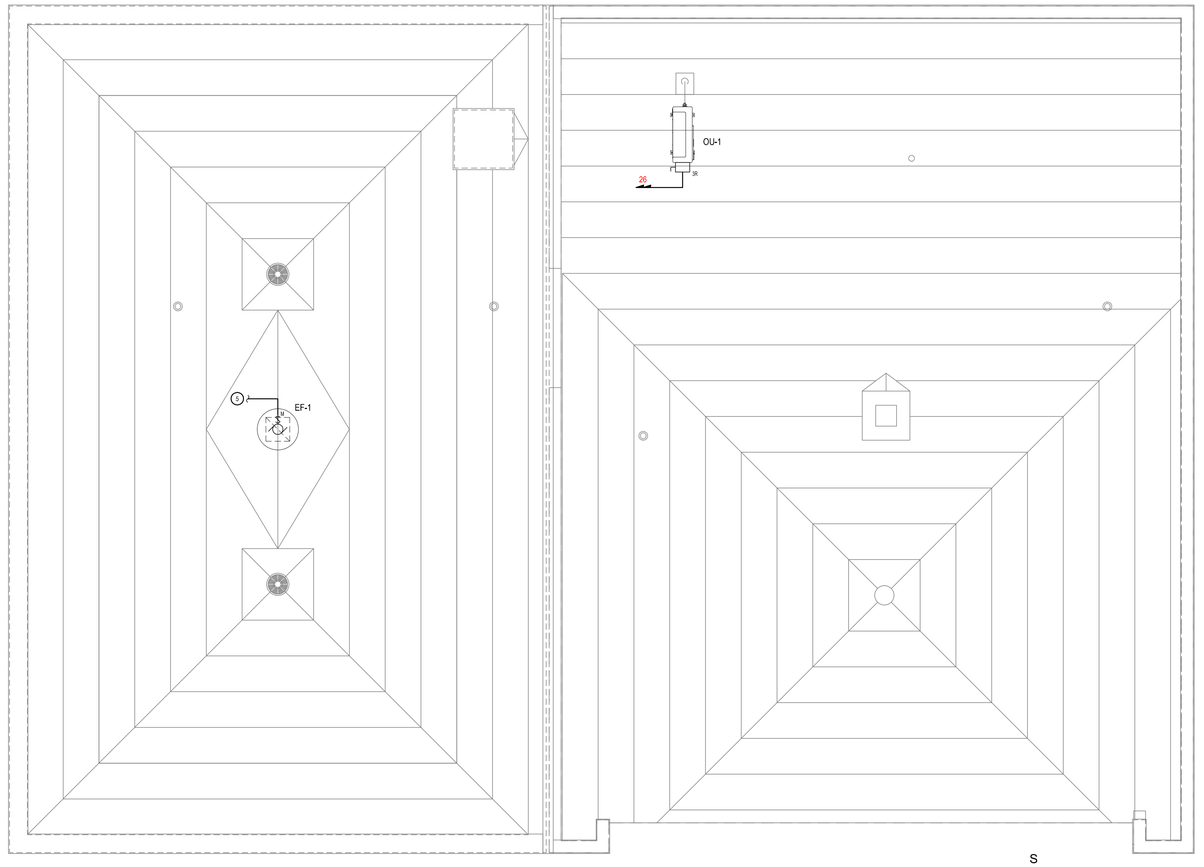
COORDINATE SERVICE REQUIREMENTS WITH CON EDISON FOR PROPOSED UPGRADE TO 225A SINGLE PHASE SERVICE.

PROVIDE TEMPORARY POWER AS REQUIRED DURING CONSTRUCTION.

POWER ONE-LINE DIAGRAM 2
NOT TO SCALE

Power Notes

1. INSTALL POWER/CONTROL CABLE BETWEEN INDOOR UNIT AND OUTDOOR UNIT. PROVIDE 15A 2P DISCONNECT SWITCH AT INDOOR UNIT.
2. TO EF-2 ON ROOF. SEE ROOF PLAN.
3. FROM FIRST FLOOR. SEE NOTE 2.
4. TO EF-1 ON ROOF. SEE ROOF PLAN.
5. FROM FIRST FLOOR. SEE NOTE 4.
6. RECONNECT EXISTING BRANCH CIRCUITS TO PP2. FIELD VERIFY EXISTING CIRCUITS PRIOR TO ORDERING CIRCUIT BREAKERS.
7. RELOCATE CARBON MONOXIDE CONTROL PANEL AND RECONNECT SENSOR AND ALARM WIRING.
8. RELOCATE CARBON MONOXIDE SENSOR.
9. PROVIDE ADDITIONAL CO SENSOR TO MATCH EXISTING (MACURCO CM-6) AND CONNECT TO EXISTING CO SYSTEM CONTROL PANEL IN ROOM 110.
10. DISCONNECT EXISTING OVERHEAD DOOR MOTOR AND RECONNECT POWER TO REPLACEMENT MOTOR.



ROOF POWER PLAN 1
1/4" = 1'-0"

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

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Project Title
VILLAGE/TOWN OF MOUNT KISCO
WATER DEPARTMENT BUILDING ADDITION
43 COLUMBUS AVE, MOUNT KISCO, NY 10549

No	Date	Revision	By
4			
3			
2			
1			

Drawn By:	ks
Checked By:	ks
BDS Proj. #:	21-01
Date:	June 3, 2022

Sheet Title
ROOF PLAN & SCHEDULES

Sheet No.
E-4

CONSTRUCTION DOCUMENTS