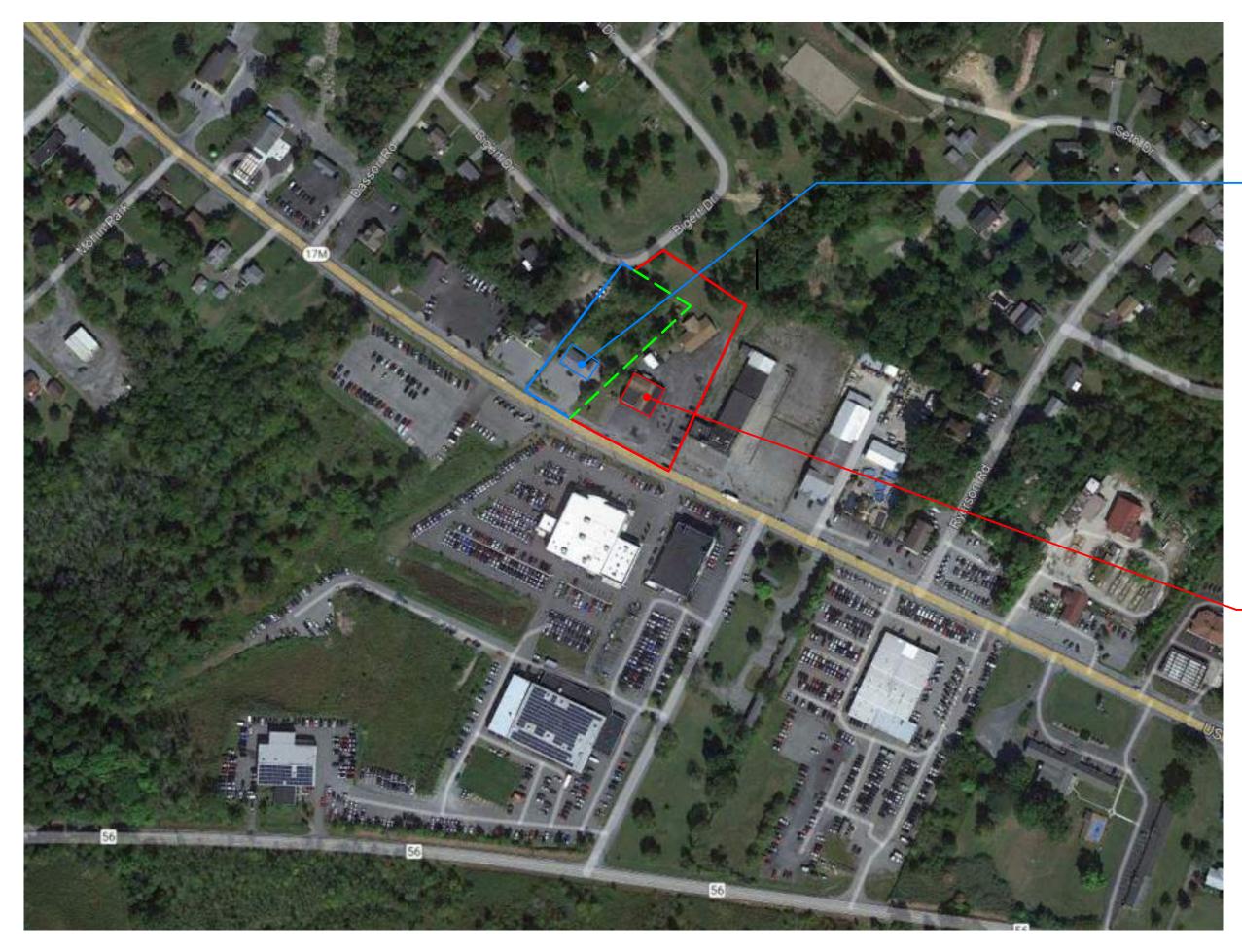
# NEW HAMPTON FIRE DEPARTMENT NEW FIRE STATION 5024 STATE ROUTE 17M, NEW HAMPTON, NY 10958

## **ISSUED FOR BID:** 12/19/2022

**SARCH** - ARCHITECTS & M.E.P. ENGINEERS BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS PASSERO ASSOCIATES - CIVIL & STRUCTURAL ENGINEERS QUALITY ENVIRONMENTAL SOLUTIONS & TECHNOLOGIES, INC. - HAZARDOUS MATERIALS DESIGN

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

## CSArch PROJECT NO. 840-2101



VICINITY MAP

## GENERAL DRAWING

-	ADJACENT BUILDING 5030 STATE ROUTE 17M, NEW HAMPTON, NY
	NEW HAMPTON, NY

**NEW HAMPTON FIRE DEPT** 5024 STATE ROUTE 17M, NEW HAMPTON, NY

NTS

G000		PG001	PLUMBING NOTES, SCHEDULE, LEGEND & DETAILS
G001	SYMBOLS, ABBREVIATIONS, AND MISC.	PLUMBING	DRAWINGS
CIVIL DRAV	WINGS	P101	FIRST FLOOR SANITARY DRAINAGE PLAN
C110	EXISTING CONDITIONS	P101 P201	FIRST FLOOR WATER DISTRIBUTION PLAN
C120	DEMOLITION PLAN		
C130	SITE PLAN	MECHANIC	AL GENERAL DRAWINGS
C140 C150	UTILITY, GRADING, & EROSION CONTROL PLAN EXISTING DRAINAGE MAP	MG001	MECHANICAL NOTES, LEGEND, SCHEDULE & DETAILS
C150	PROPOSED DRAINAGE MAP	MG002	MECHANICAL NOTES, LEGEND, SCHEDOLE & DETAILS
C152	GREEN INFRASTRUCTURE MAP		
C530	DETAILS	MECHANIC	AL DRAWINGS
C531 C533	DETAILS DETAILS	M101	FIRST FLOOR MECHANICAL PLAN
C333	DETAILS	M101	MEZZANINE LEVEL MECHANICAL PLAN
HAZARDO	US MATERIALS ABATEMENT DRAWINGS	M201	FIRST FLOOR HYDRONIC PLAN
		M202	MEZZANINE LEVEL HYDRONIC PLAN
ASB100	ASBESTOS ABATEMENT	M301	FIRST FLOOR RADIANT HEATING PLAN
	TURAL DEMOLITION DRAWINGS	M302	HEATING HOT WATER SYSTEM PIPING DIAGRAM
/ incline c		ELECTRICAL	_ GENERAL DRAWINGS
AD101	DEMOLITION - EXISTING ADJACENT BUILDING		
AD102	DEMOLITION - EXISTING FIRE STATION	EG001	ELECTRICAL NOTES, LEGEND, DETAILS & SCHEDULES
	Y DRAWINGS	EG002	ELECTRICAL PANEL SCHEDULES & ONE-LINE DIAGRAM
LIFE SAFET		ELECTRICAL	_ SITE DRAWINGS
LS101 L	IFE SAFETY PLANS		
		ES101	SITE ELECTRICAL PLAN
STRUCTUR	AL DRAWINGS		
S001	GENERAL NOTES, DESIGN CRITERIA, AND SCHEDULES	ELECTRICAL	_ DRAWINGS
S002	SPECIAL INSPECTIONS	E101	FIRST FLOOR POWER DISTRIBUTION PLAN
S101	FOUNDATION AND FRAMING PLANS	E102	MEZZANINE LEVEL POWER DISTRIBUTION PLAN
S301	SECTIONS AND DETAILS	E201	FIRST FLOOR LIGHTING PLAN
S501 S502	TYPICAL CONCRETE DETAILS TYPICAL MASONRY DETAILS	E202 E301	MEZZANINE LEVEL LIGHTING PLAN FIRST FLOOR FIRE ALARM PLAN
3502	TTPICAL MASUNKT DETAILS	E301 E302	MEZZANINE LEVEL FIRE ALARM PLAN
ARCHITEC	TURAL DRAWINGS		
A101	GROUND FLOOR OVERALL PLAN		
A111	MEZZANINE OVERALL PLAN		
A201	EXTERIOR ELEVATIONS		
A251	BUILDING SECTIONS		
A301	WALL SECTIONS		
A302 A303	WALL SECTIONS WALL SECTIONS		
A351	SECTION DETAILS		
A352	PLAN DETAILS		
A401	ROOF PLAN		
A451	ROOF DETAILS		
A501	STAIR AND ELEVATOR - PLANS, SECTIONS AND DETAILS		
A551 A600	STAIR AND MEZZANINE DETAILS TYPICAL EQUIPMENT PLANS, ELEVATIONS AND DETAILS		
A600 A601	ENLARGED APPARATUS BAY PLAN AND ELEVATIONS		
A602	ENLARGED RADIO ROOM PLAN AND ELEVATIONS		
A603	ENLARGED DECON. /STORAGE ROOM PLAN & ELEVATIONS		
A604	ENLARGED TOILET ROOM & VESTIBULE PLANS AND ELEVATIONS		
A605	ENLARGED OFFICE PLANS AND ELEVATIONS		
A606 A651	ENLARGED OFFICE PLANS AND ELEVATIONS CASEWORK PLANS, ELEVATIONS, AND DETAILS		
A701	PARTITION TYPES		
A751	SITE DETAILS		
A801	GROUND FLOOR REFLECTED CEILING PLAN		
A811	MEZZANINE REFLECTED CEILING PLAN		
A851	CEILING DETAILS		
A901 A911	DOOR SCHEDULE, ELEVATIONS, AND DETAILS WINDOW ELEVATIONS AND DETAILS		
ARCHITEC	TURAL FINISH DRAWINGS		
AF001 N	ATERIAL AND FINISH SCHEDULES		

PLUMBING GENERAL DRAWINGS

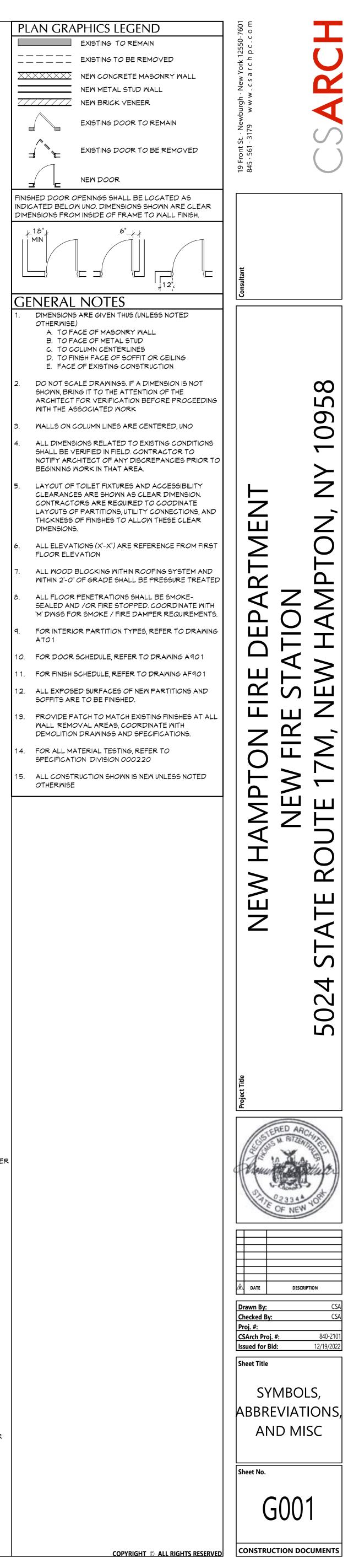
AF001 MATERIAL AND FINISH SCHEDULES AF101 ENLARGED FINISH PLANS AF102 ENLARGED FINISH PLANS

## **DRAWING LIST**



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ABBRE	<u>EVIATIONS</u>	ARCHIT	ECTURAL LEGEND	PLAN GRAPHICS LE
	TION DESCRIPTION	MATERIAL IN	IDICATIONS	
	ADDENDUM ADMINISTRATIVE		EARTH	
AFF ALT	ABOVE FINISHED FLOOR ALTERNATE		GRANULAR FILL	NEW METAL S           ZZZZZZ         NEW BRICK VI
APPROX ARCH AV	APPROXIMATE ARCHITECT / ARCHITECTURAL AUDIO VISUAL		BRICK	
BLDG	BUILDING		CONCRETE MASONRY UNIT	EXISTING DOC
BOT OR B/ BSMT	BOTTOM OF BASEMENT		CONCRETE	
CJ CL	CONTROL / CONSTRUCTION JOINT CENTERLINE		GROUT	FINISHED DOOR OPENINGS SHALL
CLG / CLNG CLR CMU	GEILING CLEAR CONCRETE MASONRY UNIT			INDICATED BELOW UNO. DIMENSIONS FROM INSIDE OF FR
COL CONC CONF	COLUMN CONCRETE CONFERENCE		SHIM FINISH WOOD	+18", .6".
CONT COORD	CONTINUOUS COORDINATE		PLYWOOD	
CORR DEMO	CORRIDOR DEMOLITION		SHEATHING	
DET DIA	DETAIL DIAMETER		RIGID INSULATION	GENERAL NOTES
DN DWG	DOWN DRAWING		BATT INSULATION	1. DIMENSIONS ARE GIVEN THU OTHERWISE)
ED EIFS ELECT	EDUCATION EXTERIOR INSULATION FINISH SYSTEM ELECTRIC / ELECTRICAL		EPS INSULATION	A. TO FACE OF MASONF B. TO FACE OF METAL S C. TO COLUMN CENTERI
EPDM EQ	ETHYLENE PROPYLENE DIENE MONOMER EQUAL		STEEL	D. TO FINISH FACE OF SO E. FACE OF EXISTING CO
EQUIP EXST EJ	EQUIPMENT EXISTING EXPANSION JOINT			2. DO NOT SCALE DRAWINGS. SHOWN, BRING IT TO THE AT
EXT	EXTERIOR	DIMENSIONI	NG CONVENTIONS	ARCHITECT FOR VERIFICAT WITH THE ASSOCIATED WOR
FIN FIN FL FIXT	FINISH FINISH FL <i>OO</i> R FIXTURE		FACE OF STUD OR CMU	3. WALLS ON COLUMN LINES A
FLR FRT	FLOOR FIRE-RETARDENT-TREATED MATERIAL	<b>•</b>	COLUMN CENTER LINE	4. ALL DIMENSIONS RELATED SHALL BE VERIFIED IN FIELD NOTIFY ARCHITECT OF ANY
FTG GA	FOOTING GAUGE			
GAL GALV GC	GALLON GALVANIZE(D) GENERAL CONTRACT(OR)	<u>SYMBOLS</u>		5. LAYOUT OF TOILET FIXTURE CLEARANCES ARE SHOWN , CONTRACTORS ARE REQUI
GND GMB	GROUND GYPSUM WALL BOARD		- ROOM NAME - ROOM NUMBER	LAYOUTS OF PARTITIONS, U THICKNESS OF FINISHES TO DIMENSIONS.
GMBS HC	GYPSUM WALL BOARD SOFFIT HANDICAPPED ACCESSIBLE	000 S.F	- AREA OF ROOM	6. ALL ELEVATIONS (X'-X") AR
HM HORIZ	HOLLOW METAL HORIZONTAL	$\overline{(A100)}$	DOOR NUMBER, REFER TO A900 DRAWINGS WINDOW TAG, REFER TO A900 DRAWINGS	FLOOR ELEVATION 7. ALL WOOD BLOCKING WITH
HR HT HTG	HOUR HEIGHT HEATING	(BL1)	BORROWED LIGHT NUMBER, REFER	WITHIN 2'-0" OF GRADE SHA         8.         ALL FLOOR PENETRATIONS
HVAC ID	HEATING/VENTILATING/AIR CONDITIONING	51	TO A900 DRAWINGS STOREFRONT / CURTAINWALL	SEALED AND /OR FIRE STO 'M' DWGS FOR SMOKE / FIRE
IN INT	INCH / INCHES INTERIOR		NUMBER, REFER TO A900 DRAWINGS COLUMN GRID DESIGNATION	9. FOR INTERIOR PARTITION T A701
NAL JL	JANITOR JANITOR'S CLOSET	M <sup>1</sup> 1	PARTITION TAG, REFER TO A 700 DRAWINGS	10. FOR DOOR SCHEDULE, REF
JST JT	T T I OL		<ul> <li>HOUR RATING OF PARTITION</li> <li>ADDITIONAL NOTES FOR PARTITION</li> </ul>	11. FOR FINISH SCHEDULE, REFE
LAB LB	LABORATORY		REVISION NUMBER	12. ALL EXPOSED SURFACES C SOFFITS ARE TO BE FINISHE
LIN LVL	LINEAR LEVEL		KEY NOTE, NEW WORK	13. PROVIDE PATCH TO MATCH WALL REMOVAL AREAS, CO DEMOLITION DRAWINGS AN
MAN MAS MAX	MANUAL MASONRY MAXIMUM	( <u>1</u> ) + <i>0</i> '- <i>0</i> "	KEY NOTE, DEMOLITION WORK ELEVATION TAG	14. FOR ALL MATERIAL TESTIN
MDF MECH	MEDIUM DENSITY FIBERBOARD MECHANICAL	₽ P		SPECIFICATION DIVISION OF 15. ALL CONSTRUCTION SHOWN
MEZZ MFR MID	MEZZANINE MANUFACTURE(R) MIDDLE		HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE	OTHERWISE
MIN MISC MO	MINIMUM MISCELLANEOUS MASONRY OPENING	MALL FINISH BASE FINISH		
MTL	METAL NOT APPLICABLE	ELOOR FINISH CEILING FINISH	INTERIOR FINISH TAG, REFER TO AF 100 DRAWINGS	
NIC NOM	NOT IN CONTRACT NOMINAL		INDICATOR LEGEND	
NTS OA	NOT TO SCALE OVERALL			
OC OD O/HD	ON CENTER OUTSIDE DIAMETER OVERHEAD			
OPT OZ	OPTIONAL OUNCE	<u>Section ine</u>	SECTION NUMBER	
PERIM PLAM	PERIMETER PLASTIC LAMINATE	DRAWING SHEE		
PLBG PLAS PLYMD	PLUMBING PLASTER PLYWOOD	SECTION IS DR	AWN ON DIRECTION OF VIEW	
PNL PNT POLYISO	PANEL PAINT(ED) POLYISOCYANURATE	DETAIL INDIC	CATOR (SECTION)	
PPT PR	PRESSURE PRESERVATIVE TREATED PAIR			
PREP PTN PVC	PREPARATORY PARTITION POLYVINYL CHLORIDE	DRAWING SHEE SECTION IS DR		
RAD RB	RADIUS RUBBER / RUBBER WALL BASE			
REQD RM	REQUIRED ROOM	<u>ENLARGED D</u>		
RND RO	ROUND ROUGH OPENING	DRAWING ARE		
SCH SECT SF	SCHEDULED SECTION SQUARE FEET	REQUIRING DETAIL		
SIM SPEC	SIMILAR SPECIFICATION		DRAWING SHEET NUMBER DETAIL IS DRAWN ON	२
5Q 55 5TC	SQUARE STAINLESS STEEL SOUND TRANSMISSION CLASS			
STD STL ST <i>O</i> R	STANDARD STEEL STORAGE	DETAIL TITLE DETAIL NUMBE		
STRUCT SUSP SAC	STRUCTURAL / STRUCTURE SUSPENDED SUSPENDED ACOUSTICAL CEILING		1 FLÓOR PLAN	
T∉B	TOP AND BOTTOM		A100 <sup>1/8" = 1'-0"</sup>	
T≴G TECH TEMP	TONGUE AND GROOVE TECHNOLOGY TEMPORARY	DRAWING SHEE	SCALE	
TMPD TOM TOS	TEMPERED TOP OF MASONRY TOP OF STEEL		EVATION INDICATOR	
TYP	TYPICAL	DIRECTION OF	ELEVATION NUMBER	
UL UNO	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE		A100	
VERT VEST VIF	VERTICAL VESTIBULE VERIFY IN FIELD	DRAMING SHEE NUMBER DETA DRAMN ON		
M/	МІТН			
M/O MD MPT	WITHOUT WOOD WOOD PRESERVED-TREATED MATERIAL	<u>INTERIOR ELI</u> BLANK ARR <i>OP</i>		
MT YD	WEIGHT YARD	ELEVATIONS N		
		DRAWING SHEE DETAIL IS DRA		
			DIRLOTION OF VIENS	



#### LEGEND:

	PROPERTY BOUNDARY
	EXISTING BUILDING
<u> </u>	EXISTING FENCE
	EXISTING EASEMENT LINE
520	EXISTING MAJOR CONTOUR
521	EXISTING MINOR CONTOUR
DCB_	EXISTING STORM SEWER & MH
е	EXISTING ELECTRIC LINE & POLE
	EXISTING ASPHALT

#### <u>SITE DATA</u>

- PARCEL OWNER: 1&2) NEW HAMPTON FIRE DISTRICT, PO BOX 386, NEW HAMPTON, NY
   PARCEL NUMBERS:1) 8-1-21.2
- 2) 8-1-22
- 3. PARCEL ADDRESS: 1) 5024 RT 17M NEW HAMPTON, NY 10958 2) 5030 RT 17M NEW HAMPTON, NY 10958
- 4. TOTAL PARCEL AREA: 1) 1.66 ACRES (72,530 SF)
- 2) 0.74 ACRES (32,400 SF) GORE PARCEL: 0.02 ACRES (875 SF)
- 5. EXISTING ZONING: 1) MC2 AND SR
- 2) MC2 PROPOSED ZONING: MC2
- 6. EXISTING USE: 1) NEW HAMPTON FIRE STATION 2) COMMERCIAL
- PROPOSED USE: NEW HAMPTON FIRE STATION
- 7. THERE ARE NO FEDERALLY REGULATED WETLANDS ON THIS PARCEL ACCORDING TO THE US FISH AND WILDLIFE SERVICE'S NATIONAL WETLAND INVENTORY.
- 8. THERE ARE NO STATE REGULATED WETLANDS ON THIS PARCEL ACCORDING TO NYSDEC WETLAND INVENTORY.
- 9. PROPERTY BOUNDARY AND TOPOGRAPHIC DATA FOR FORMER PARCEL 1 IS BASED ON A PLAT PROVIDED BY KC ENGINEERING, P.C. TITLED "TOPOGRAPHIC SURVEY OF NEW HAMPTON FIRE HOUSE" DATED JANUARY 10, 2018.
- PROPERTY BOUNDARY AND TOPOGRAPHIC DATA FOR FORMER PARCEL 2 IS BASED ON A PLAT PROVIDED BY DAN O'BRIEN, PLS TITLED "SURVEY MAP OF LANDS FOR NEW HAMPTON FIRE DISTRICT" DATED JANUARY 24, 2020 AND REVISED FEBRUARY 7, 2020 TO INCLUDE THE GORE PARCEL.
- THE OWNER HAS STATED THEY HAVE SUBMITTED A SEPARATE APPLICATION TO REMOVE THE GORE PARCEL AND MODIFY THE PROPERTY BOUNDARY TO THE BOUNDARY SHOWN ON THE SITE PLAN INCLUDED IN THIS PLAN SET.
   LOCATION OF EXISTING SUBSURFACE SEWAGE DISPOSAL SYSTEMS IS APPROXIMATE BASED ON PUBLIC RECORDS.
- 12. CONTRACTOR SHALL INDEPENDENTLY VERIFY ACCURACY OF ALL EXISTING CONDITIONS INFORMATION PROVIDED IN THESE PLANS, AND INFORM THE OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
- 13. EACH RESIDENTIAL, INDUSTRIAL, COMMERCIAL SUBDIVISION OR SITE PLANS SHALL CONTRIBUTE RECREATIONAL FEES CALCULATED ON THE BASIS OF GROSS FLOOR AREA FOR ALL NEW CONSTRUCTION.





#### DEMOLITION NOTES:

- 1. EACH CONTRACTOR SHALL CALL DIG SAFE 811 PRIOR TO ANY EXCAVATION ON THE PROJECT SITE. 2. THE CONTRACTOR(S) SHALL OBTAIN ALL SEWER PERMITS PRIOR TO DEMOLITION AND/OR CONSTRUCTION.
- 3. DEMOLITION WILL OCCUR IN TWO PHASES: 3.1. PHASE 1 (CONTRACT DC-01): DEMOLITION OF ALL STRUCTURES, APPURTENANCES, UTILITIES, ETC. WITHIN THE PHASE 1 BOUNDARY SHOWN TO ALLOW CONSTRUCTION OF NEW FIRE STATION AND STABILIZED CONSTRUCTION ENTRANCE. 3.1.1. DC CONTRACTOR SHALL ENSURE THAT THE EXISTING FIRE HOUSE, SOCIAL HALL, AND ALL
- SERVICES ON PARCEL 2 REMAIN IN SERVICE AND ACCESSIBLE DURING AND AFTER PHASE 1 DEMOLITION. 3.2. PHASE 2 (CONTRACT DA-06): DEMOLITION OF THE STRUCTURES, APPURTENANCES, UTILITIES, ETC. MARKED FOR DEMOLITION WITHIN PHASE 2 BOUNDARY. 3.2.1. PHASE 2 DEMOLITION WILL OCCUR AFTER THE NEW FIRE STATION IS COMMISSIONED AND IN
- SERVICE. GENERAL CONTRACTOR (GC) SHALL REMOVE ALL THEIR EQUIPMENT AND MATERIALS FROM THE PHASE 2 DEMOLITION AREA FOLLOWING COMPLETION OF THE NEW FIRE STATION. 3.2.2. DA CONTRACTOR SHALL ENSURE THAT THE NEW FIRE HOUSE AND EXISTING SOCIAL HALL, AND ALL SERVICES FOR BOTH STRUCTURES REMAIN IN SERVICE AND ACCESSIBLE DURING AND AFTER PHASE 2 DEMOLITION.
- 4. DA AND DC CONTRACTORS SHALL OBTAIN ALL DEMOLITION PERMITS AND INCLUDE ALL FEES ASSOCIATED WITH THOSE PERMITS.
- 2. PRIOR TO ANY DEMOLITION TAKING PLACE, DC AND DA CONTRACTORS SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE WORK AREA OR THOSE EXPECTED TO BE AFFECTED BY NEW WORK, AND SUBSURFACE FEATURES.
- 3. CONTRACTOR(S) SHALL COORDINATE ALL UTILITY SHUT DOWNS, RELOCATIONS AND SERVICE INSTALLATIONS (IF REQUIRED) WITH THE LOCAL UTILITY COMPANIES AND OTHER RELEVANT AUTHORITIES.
- 4. WITHIN LIMIT LINES, ALL AT GRADE UTILITIES SUCH AS TRANSFORMERS. GENERATORS. HVAC UNITS. THE UNIT'S CONCRETE PAD AND ANY FENCING THAT SURROUNDS THE UNIT, TO BE REMOVED AND STORED OR DISPOSED OF BY DC AND DA CONTRACTORS FOR THEIR RESPECTIVE CONTRACTS. ANY UTILITIES OR EQUIPMENT TO REMAIN SHALL BE DISCONNECTED AND RECONNECTED BY DA DC CONTRACTOR AS
- 5. CONTRACTOR(S) SHALL PROTECT ALL EXISTING FEATURES TO REMAIN. DAMAGE TO EXISTING FEATURES TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR(S) EXPENSE.
- 6. DA AND DC CONTRACTORS ARE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLISHED MATERIAL IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS FOR THEIR RESPECTIVE PHASES.
- 7. ALL EXISTING STRUCTURES THAT ARE ABANDONED IN PLACE, SHALL BE REMOVED TO A MINIMUM DEPTH OF 2 FEET BELOW FINISHED GRADE, OR TO FULL DEPTH IF LOCATED WHERE NEW CONSTRUCTION WILL
- OCCUR. 8. DA AND DC CONTRACTORS SHALL NOT BACKFILL ANY DEMOLITION EXCAVATIONS AND SHALL LEAVE A
- STABLE, SAFE EXCAVATION ENCLOSED BY CONSTRUCTION FENCE. 9. ALL EXISTING FEATURES TO BE REMOVED ARE NOT SHOWN ON SUBSEQUENT PLANS FOR CLARITY.
- 10. ALL SURFACES THAT ARE DISTURBED DUE TO DEMOLITION, OUTSIDE OF THE DEFINED DEMOLITION AREAS, ARE TO BE RESTORED TO A SERVICEABLE CONDITION.
- 11. ANY MATERIALS CONTAINING ASBESTOS SHALL BE REMOVED AND DISPOSED OF BY THE DA CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. THIS MAY INCLUDE
- UNDERGROUND UTILITIES. 12. ALL UTILITIES NOT SLATED FOR DEMOLITION, OR FOR DELAYED DEMOLITION BASED ON THE DEMOLITION PHASES, ARE TO REMAIN FUNCTIONAL UPON COMPLETION OF DEMOLITION. THIS INCLUDES BYPASS
- PUMPING, IF NECESSARY. 13.EXISTING UTILITIES THAT ARE PROPOSED TO BE REMOVED, UNLESS OTHERWISE INDICATED, SHALL BE EXCAVATED, UTILITY MATERIAL REMOVED, AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE
- SPECIFICATIONS. 14. AREAS OF ASPHALT AND CONCRETE REMOVAL SHALL BE SAWCUT WITH A NEAT STRAIGHT LINE AT ALL
- REMOVAL LIMITS, AND MATERIAL REMOVED TO STABLE SUBGRADE. 15. IF ANY PREVIOUSLY UNIDENTIFIED ENVIRONMENTAL CONDITIONS OR ISSUES ARE ENCOUNTERED DURING DEMOLITION, THE DA AND/OR DC CONTRACTORS(S) SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR AND OWNER. THE OWNER AND/OR GENERAL CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITIES BEFORE CONTINUING THE DEMOLITION PROCESS.
- 16. ALL MATERIALS SHALL BE RECYCLED, WHEN APPROPRIATE.

REQUIRED TO ACCOMMODATE DEMOLITION WORK.

- 17. ALL SPOIL MATERIALS FROM DEMOLITION OR EARTHWORK SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE.
- 18. CONTRACTORS SHALL FIELD LOCATE THE ACTUAL PIPE ALIGNMENTS AND DEPTHS, AND NOTIFY THE OWNER, GENERAL CONTRACTOR, AND ENGINEER WHEN THE PIPES ARE EXPOSED. OWNER AND/OR ENGINEER MAY REVISE THE STORMWATER MANAGEMENT PLAN AND/OR DEMOLITION REQUIREMENTS TO ACCOMMODATE THE NEW INFORMATION.
- 19.FOLLOWING PIPE DEMOLITION TO THE PHASE 1 LIMIT, GC SHALL INSTALL SUMP PIT AND PUMP TO PREVENT DISCHARGE FROM STORMWATER PIPE FROM AFFECTING ANY FUTURE WORK. GC SHALL MAINTAIN THE SUMP PIT UNTIL THE WORK IS COMPLETE OR FLOW FROM THE PIPE IS REROUTED. GC SHALL DISCHARGE WATER FROM THE SUMP PIT IN A SAFE MANNER, COMPLYING WITH ALL APPLICABLE RULES AND REGULATIONS.



#### LEGEND - DEMO:

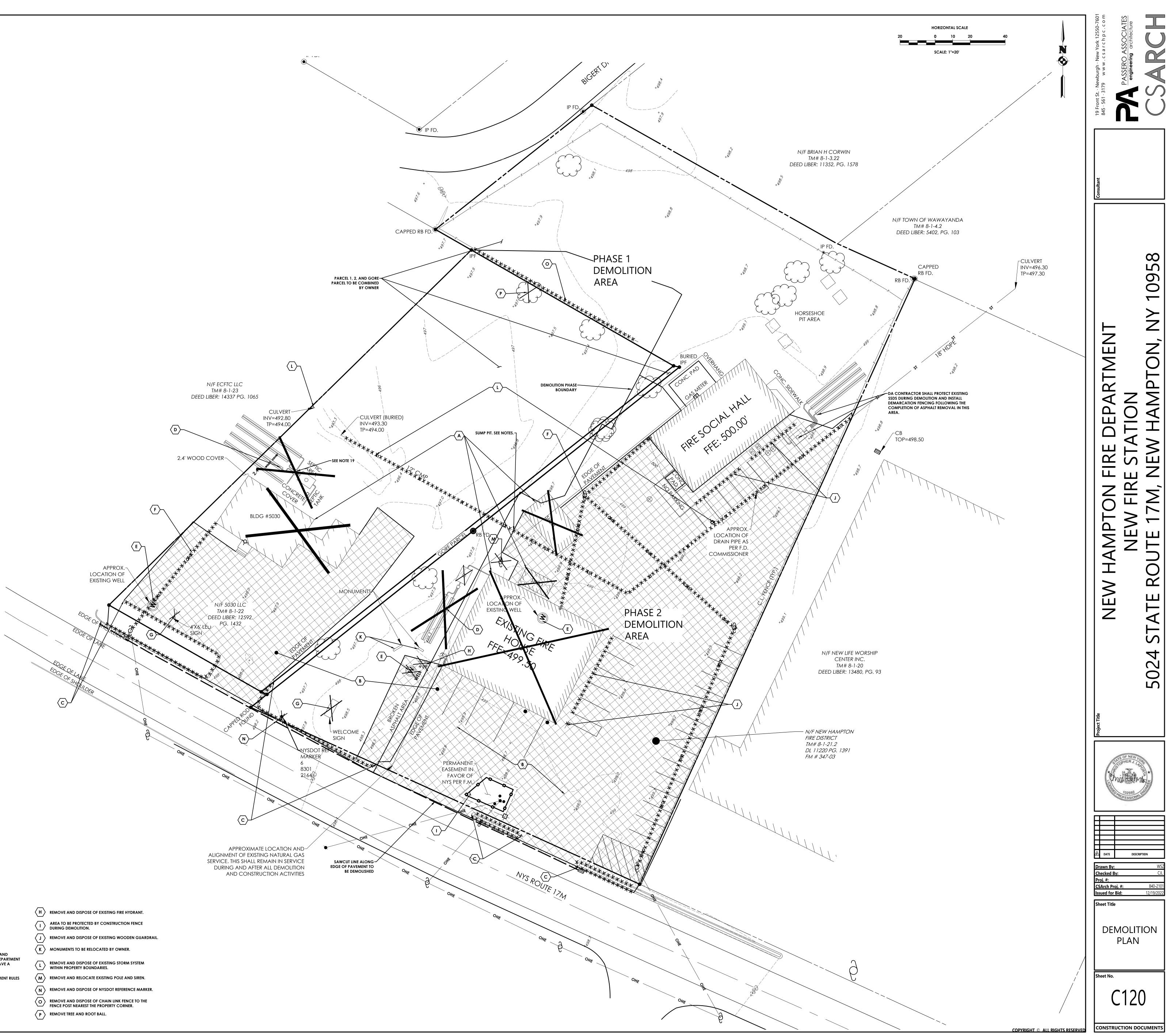
PROPERTY BOUNDARY EXISTING BUILDING EXISTING FENCE \_\_\_\_\_x \_\_\_\_ x \_\_\_\_ x EXISTING EASEMENT LINE EXISTING FEATURE TO **BE REMOVED** X X X X X X X X X X EXISTING FEATURE TO BE REMOVED EXISTING ASPHALT TO BE REMOVED

\_\_\_\_\_ ----- 520 ------- 521 -EXISTING ELECTRIC LINE & POLE

EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR 



- A
   EXISTING BUILDING TO BE REMOVED. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- $\left< B \right>$  REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND SUBBASE.
- REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.  $\langle c \rangle$
- REMOVE AND DISPOSE OF EXISTING SUBSURFACE SEWAGE DISPOSAL SYSTEM, INCLUDING TANKS, PIPING, AND GRAVEL WITHIN PROPERTY BOUNDARY IN ACCORDANCE WITH APPLICABLE STATE AND COUNTY HEALTH DEPARTMENT RULES AND REGULATIONS. DC CONTRACTOR SHALL NOT BACKFILL THE DEMOLITION EXCAVATION AND LEAVE A STABLE, SAFE EXCAVATION ENCLOSED BY CONSTRUCTION FENCE.
- E DECOMMISSION EXISTI AND REGULATIONS. DECOMMISSION EXISTING WELL IN ACCORDANCE WITH APPLICABLE STATE AND COUNTY HEALTH DEPARTMENT RULES
- $\langle F \rangle$  remove and dispose of existing overhead line(s) and power pole(s).
- $\langle G \rangle$  remove and dispose of existing signs.



#### SITE DATA

4. AREA REQUIREMENTS:

- 1. EXISTING ZONING:1) MC2 AND SR; 2) MC2
- PROPOSED ZONING: MC2
- 2. EXISTING USE: 1) NEW HAMPTON FIRE STATION; 2) COMMERCIAL PROPOSED USE: NEW HAMPTON FIRE STATION
- 3. APPROXIMATE AREA OF DISTURBANCE: 60,000 SF

	REQUIRED		PROPOSED
LOT	<u>MC2</u>	<u>SR</u>	
WIDTH	100'	75'	237'
AREA	2 AC MIN.	1 AC MIN.	105,805 SF (2.43 AC)
OPEN SPACE	30% MIN.	70% MIN.	40%
IMPERVIOUS AREA	70% MAX	30% MAX	60%
SETBACK			
FRONT	50'	30'	50'
REAR	30'	30'	83'
SIDE	15'	20'	15', 20'
<b>RESIDENTIAL BUFFER:</b>	50'	NA	50'
BUILDING			
HEIGHT	65'	35'	32'
SPACING	NA	NA	109'
MAX. COVERAGE	50%	20%	7%
PARKING			
NOTES:	1 PER 250 SF	OF FLOOR AREA	
	8,100 SF / 25	0 SF = 33 SPACES	36 SPACES INCLUDING

NG 2 ADA 10'X20'

5. WATER SERVICE TO THE PROPOSED FIRE STATION WILL BE PROVIDED BY THE EXISTING ON-SITE WELL.

STALL SIZE (PERPENDICULAR): 9'X19' MIN.

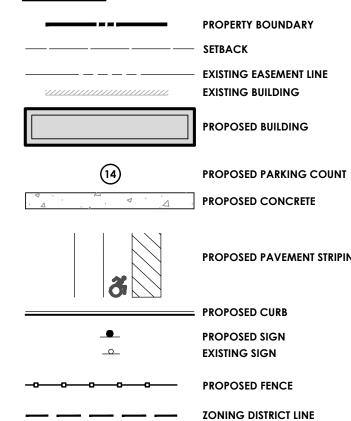
6. ELECTRIC SERVICE WILL BE SUPPLIED BY ORANGE & ROCKLAND UTILITIES.

7. GAS SERVICE WILL BE SUPPLIED BY ORANGE & ROCKLAND UTILITIES.

8. SEWAGE DISPOSAL WILL BE PROVIDED BY A SUBSURFACE SEWAGE DISPOSAL SYSTEM.

- 9. STORM SEWER AND DRAINAGE FACILITIES WILL BE PRIVATE AND MAINTAINED BY THE NEW HAMPTON FIRE DEPARTMENT. 10. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE CURRENT DEVELOPMENT STANDARDS AND
- SPECIFICATIONS OF THE MUNICIPALITY. 11. PROPERTY BOUNDARY AND TOPOGRAPHIC DATA FOR FORMER PARCEL 1 IS BASED ON A PLAT PROVIDED BY KC
- ENGINEERING, P.C. TITLED "TOPOGRAPHIC SURVEY OF NEW HAMPTON FIRE HOUSE" DATED JANUARY 10, 2018. 12. PROPERTY BOUNDARY AND TOPOGRAPHIC DATA FOR FORMER PARCEL 2 IS BASED ON A PLAT PROVIDED BY DAN O'BRIEN, PLS TITLED "SURVEY MAP OF LANDS FOR NEW HAMPTON FIRE DISTRICT" DATED JANUARY 24, 2020 AND REVISED
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- MODIFY THE PROPERTY BOUNDARY TO THE BOUNDARY SHOWN ON THE SITE PLAN INCLUDED IN THIS PLAN SET. 13. LOCATIONS OF EXISTING SUBSURFACE SEWAGE DISPOSAL SYSTEMS ARE APPROXIMATE BASED ON PUBLIC RECORDS. 14. CONTRACTOR SHALL INDEPENDENTLY VERIFY ACCURACY OF ALL EXISTING CONDITIONS INFORMATION PROVIDED IN
- THESE PLANS, AND INFORM THE OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH THE WORK. 15. EACH RESIDENTIAL, INDUSTRIAL, COMMERCIAL SUBDIVISION OR SITE PLANS SHALL CONTRIBUTE RECREATIONAL FEES
- CALCULATED ON THE BASIS OF GROSS FLOOR AREA FOR ALL NEW CONSTRUCTION. 16. IN- GROUND DIRECT BURIAL LED FLAGPOLE LIGHTING SHALL BE STARBEAM SERIES MANUFACTURED BY EAGLE MOUNTAIN FLAG AND FLAGPOLE, OR APPROVED EQUAL. LED LIGHT SOURCE SHALL HAVE A MINIMUM OF 15 DEGREE OPTICS, SHALL PROVIDE A MINIMUM OUTPUT OF 5,000 LUMENS, AND SHALL HAVE A COLOR TEMPERATURE OF 5000K. COORDINATE CONNECTIONS WITH ELECTRICAL DRAWINGS.
- 17. CONTRACTOR SHALL REMOVE, STORE, AND REINSTALL EXISTING SIREN ASSEMBLY ON A NEW UTILITY POLE. CONTRACTOR SHALL COORDINATE WITH OWNER FOR RELOCATION. CONTRACTOR TO PROVIDE NEW POLE AND REINSTALL SIREN ASSEMBLY IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS, INCLUDING PERMITTING AND COMMISSIONING. CONTRACTOR SHALL BE AWARE A DELEGATED DESIGN FOR THE FOUNDATION WILL
- BE REQUIRED FOR THE NEW POLE, TO BE PROVIDED BY THE CONTRACTOR. 18. ALL WORK COMPLETED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS OF THE NYSDOT, EXCEPT AS MODIFIED ON THESE PLANS.
- 19. THE NYSDOT STANDARD SHEETS THAT APPLY TO THIS PROJECT ARE AS FOLLOWS: 608-03, 619-10, 619-11, 619-20, AND TAST-C4.

#### <u>LEGEND</u>:



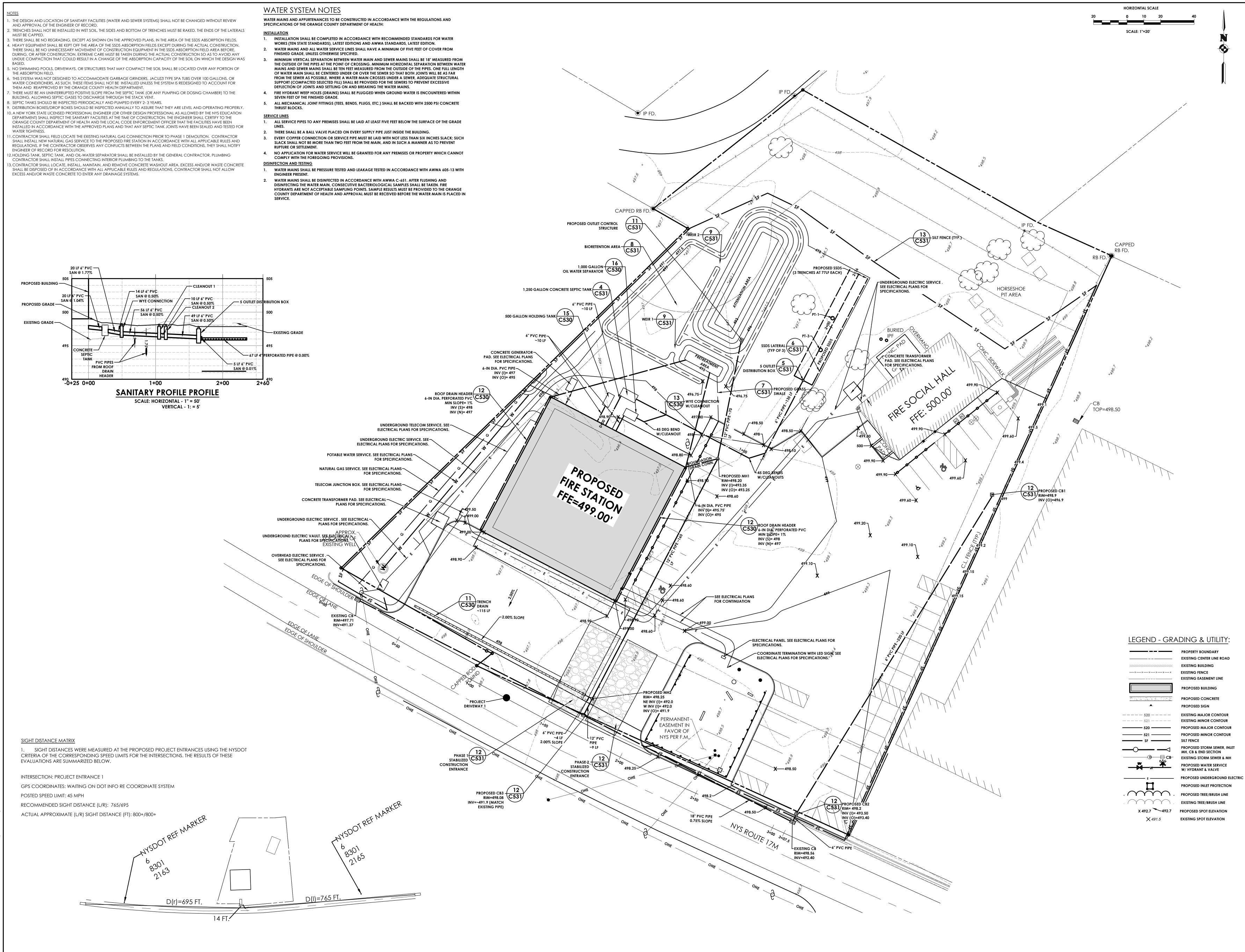
EXISTING BUILDING ROPOSED BUILDING

PROPOSED PAVEMENT STRIPING

PROPOSED CURB PROPOSED SIGN EXISTING SIGN

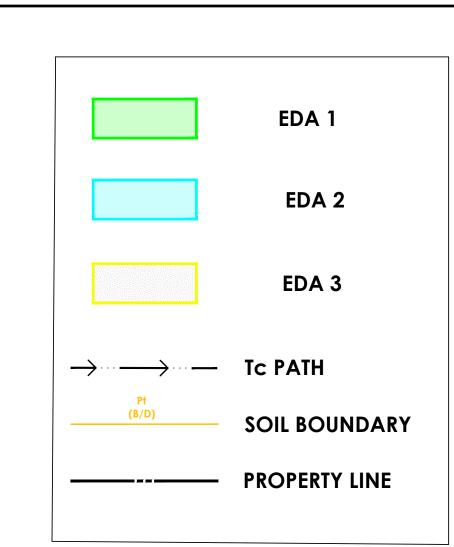








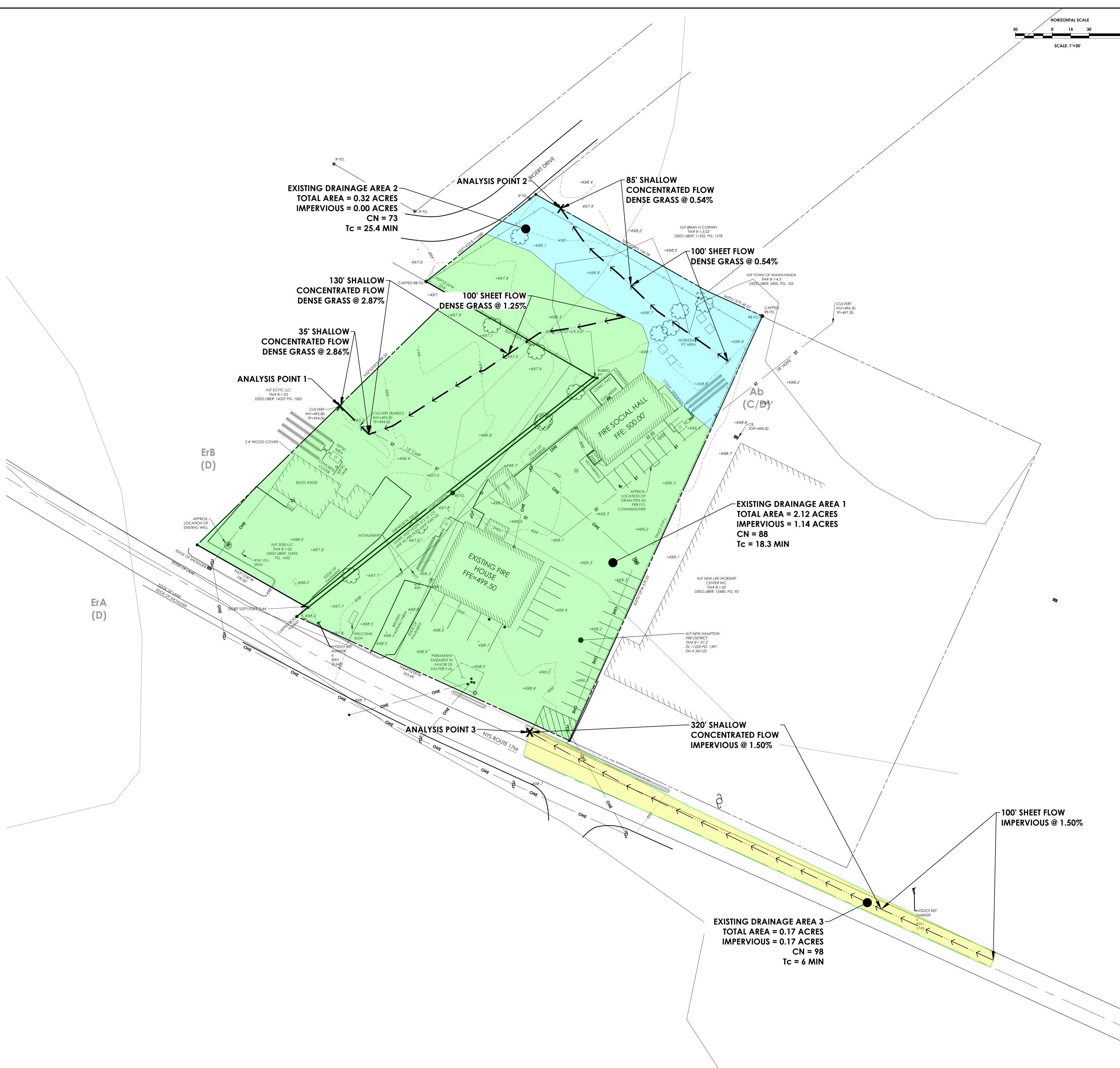




Existing Drainage Area 1						
Area (acres): 2.12						
Cn Value:	87.8					
Tc (Min.):	18.0					
Existing D	Drainage Area 2					
Area (acres):	0.315					
Cn Value:	73.1					
Tc (Min.):	25					
Existing Drainage Area 3						
Area (acres):	0.17					
Cn Value:	98.0					

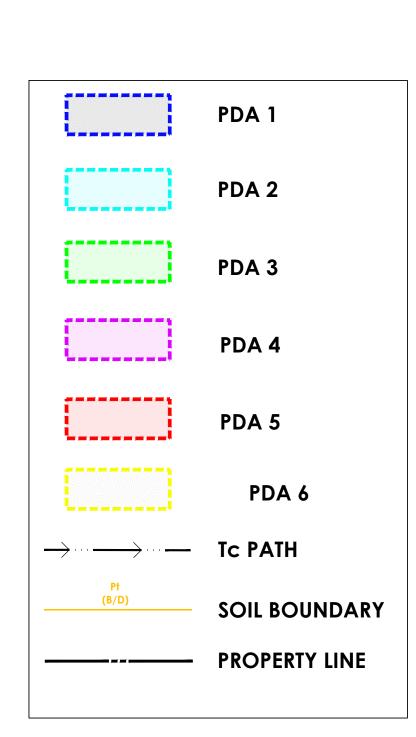
Tc (Min.):

25.4

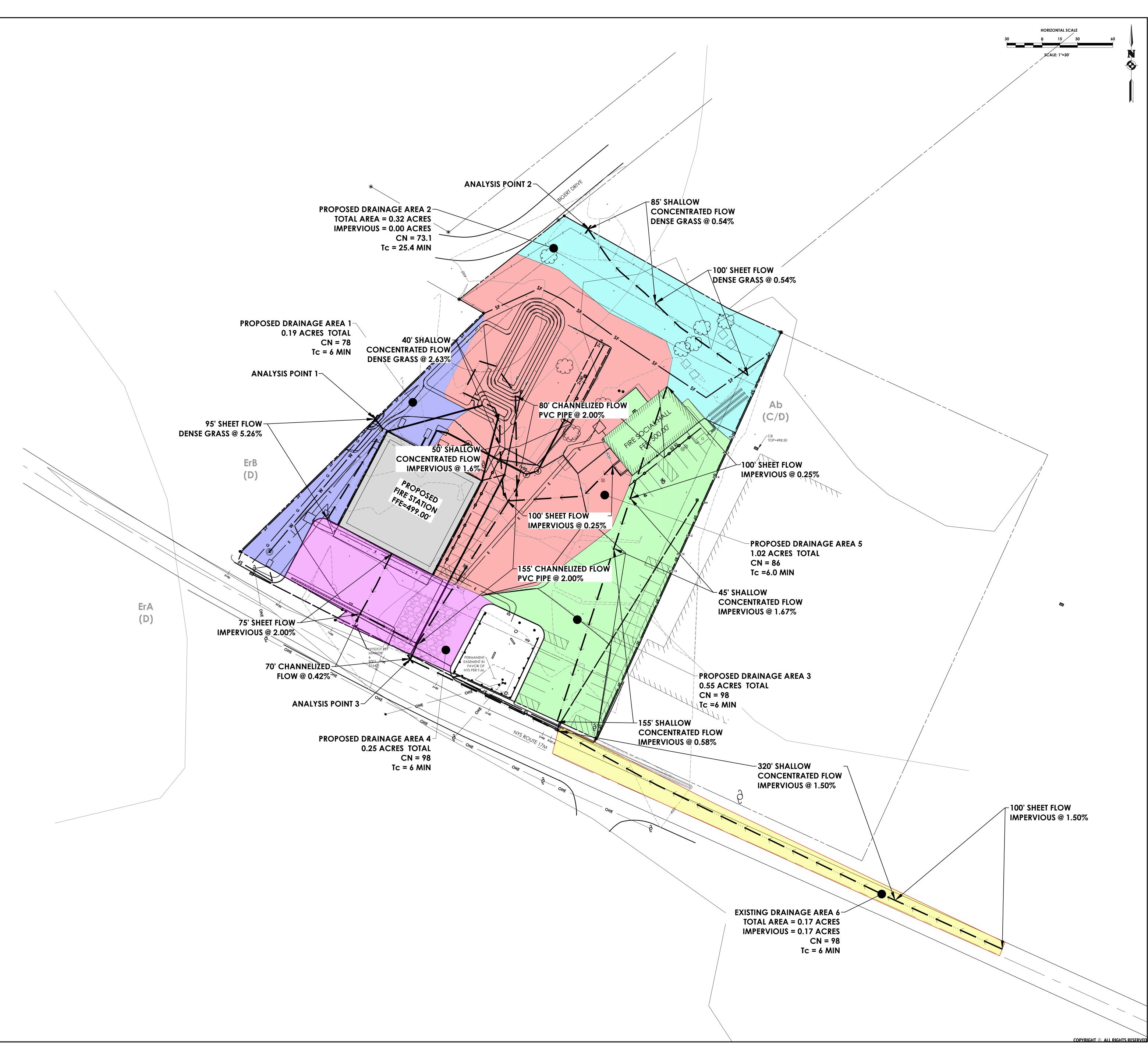




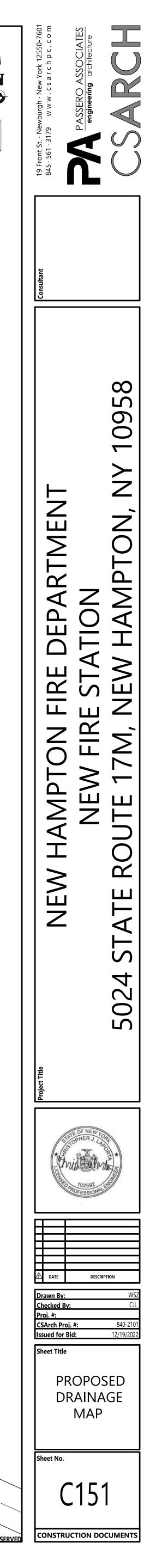


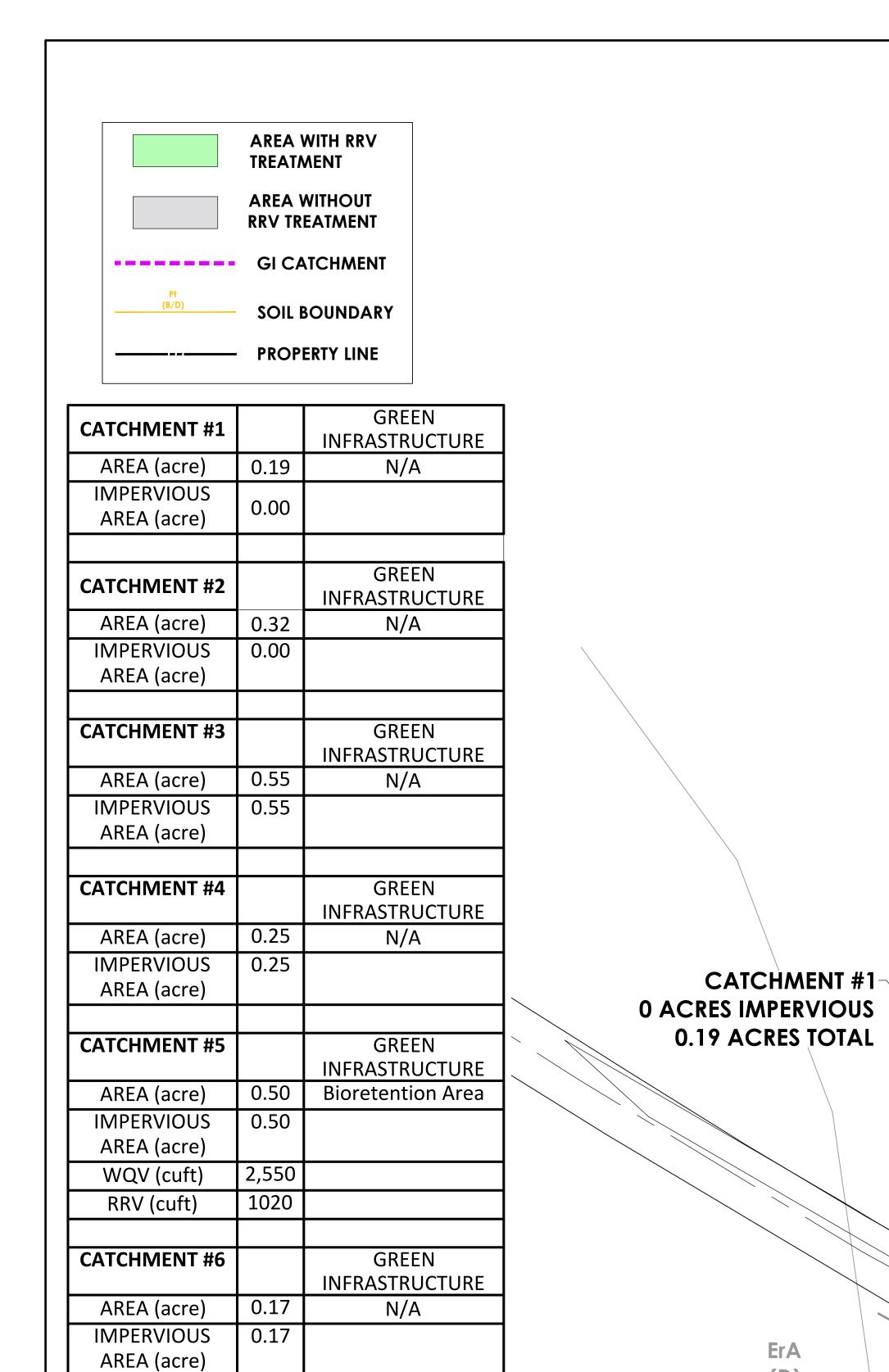


rainage Area 1					
0.19					
78.0					
6					
rainage Area 2					
0.32					
73.1					
6					
rainage Area 3					
0.55					
98.0					
6					
rainage Area 4					
0.25					
98.0					
6					
rainage Area 5					
1.02					
86.0					
6					
Proposed Drainage Area 6					
0.17					
98.0					
6					

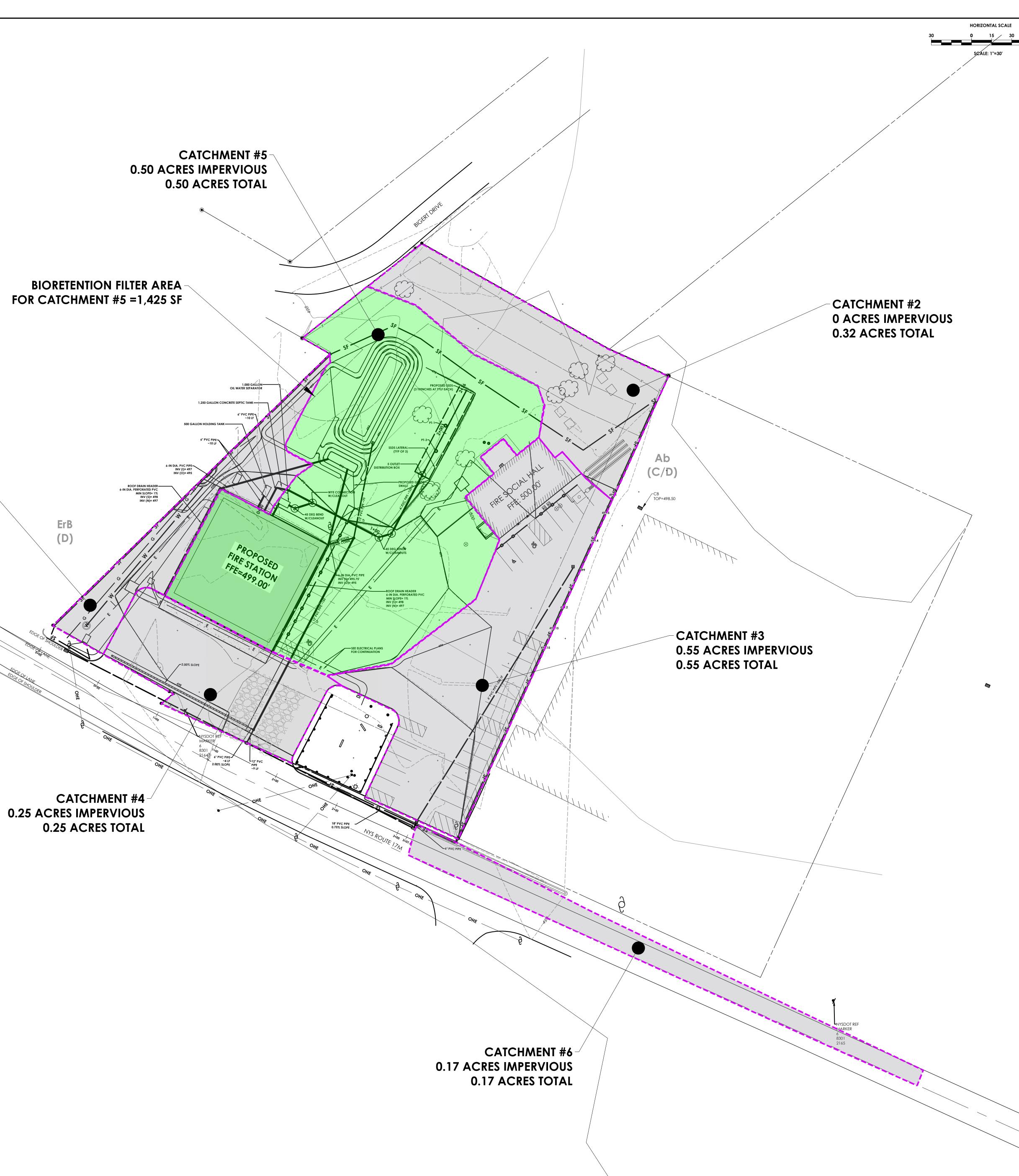




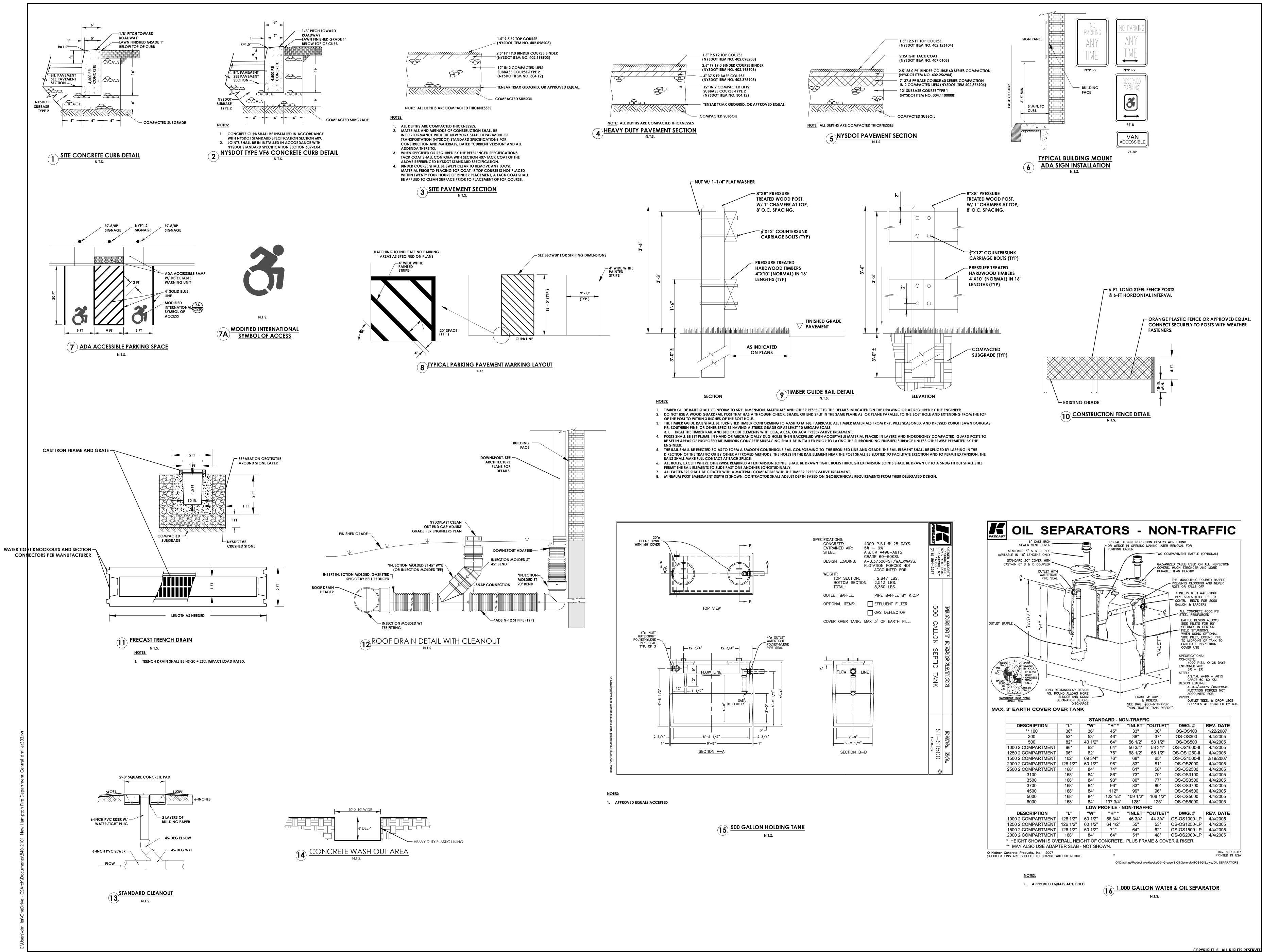




(D)



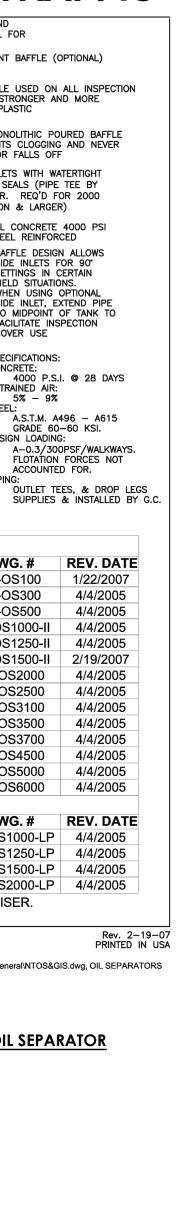


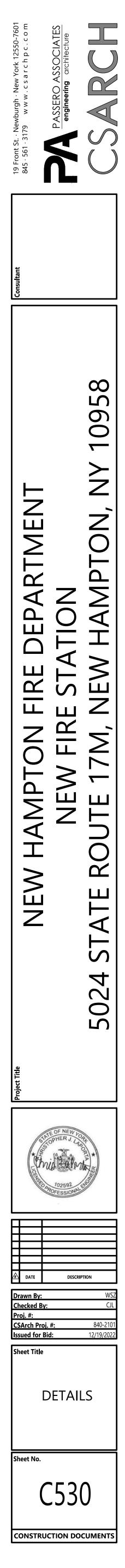


**OIL SEPARATORS - NON-TRAFFIC** SPECIAL DESIGN INSPECTION COVERS WON'T BIND OR WEDGE IN OPENING MAKING LATER REMOVAL FOR PUMPING EASIER GALVANIZED CABLE USED ON ALL INSPECTION - COVERS, MUCH STRONGER AND MORE DURABLE THAN PLASTIC THE MONOLITHIC POURED BAFFLI PREVENTS CLOGGING AND NEVER ROTS OR FALLS OFF 3 INLETS WITH WATERTIGHT PIPE SEALS (PIPE TEE BY CONTR. REQ'D FOR 2000 GALLON & LARGER) ALL CONCRETE 4000 PSI STEEL REINFORCED BAFFLE DESIGN ALLOWS SIDE INLETS FOR 90° SETTINGS IN CERTAIN FIELD SITUATIONS. WHEN USING OPTIONAL SIDE INLET, EXTEND PIPE TO MIDPOINT OF TANK TO FACILITATE INSPECTION COVER USE SPECIFICATIONS: CONCRETE: 4000 P.S.I. @ 28 DAYS ENTRAINED AIR: 5% – 9% DESIGN LOADING:

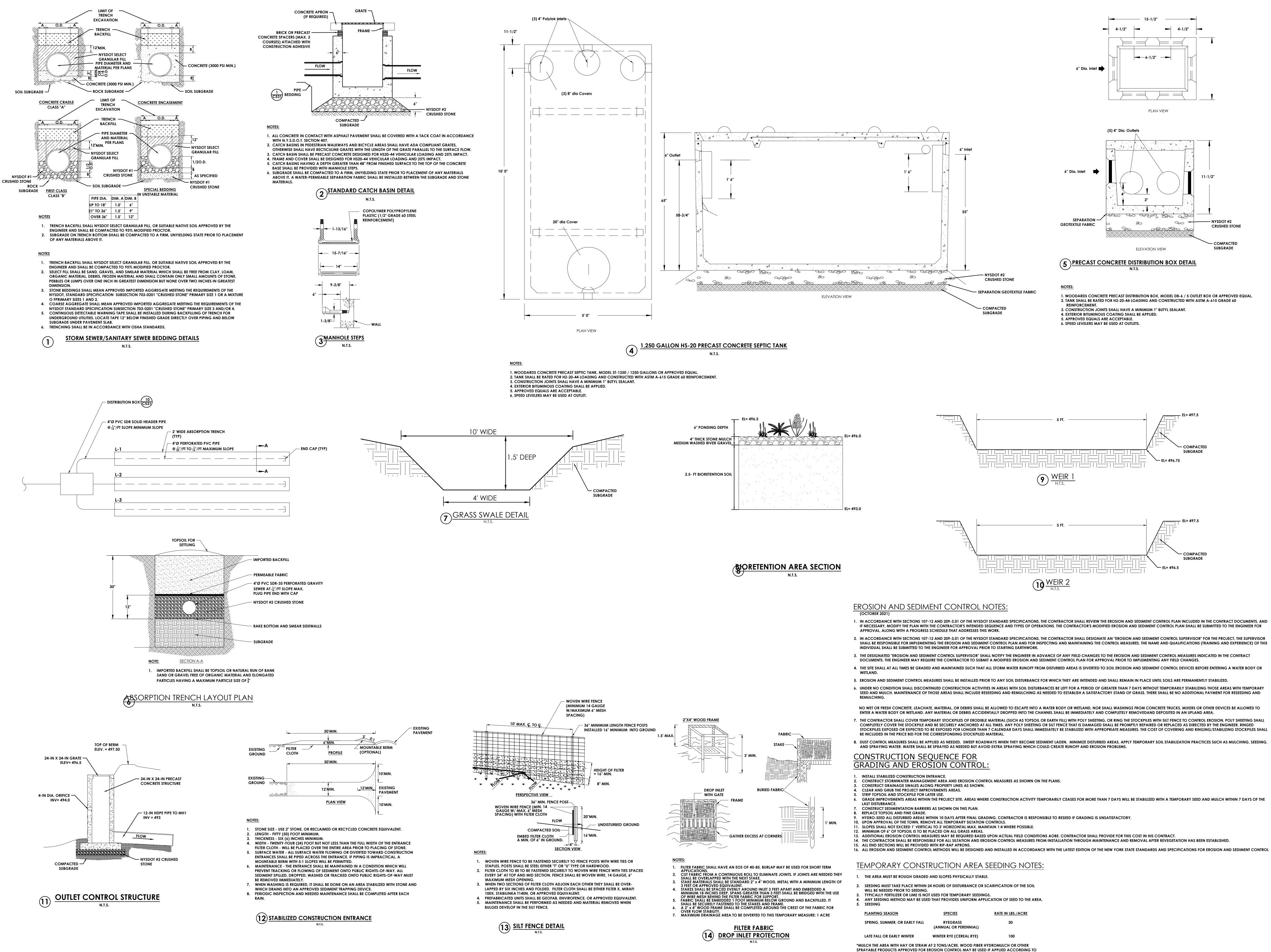
		STAN	DARD - NO	N-TRAFF	C	
DESCRIPTION	"L"	"W"	"H" *	"INLET"	"OUTLET'	DWG. #
** 100	36"	36"	45"	33"	30"	OS-OS100
300	53"	53"	46"	38"	37"	OS-OS300
500	82"	40 1/2"	64"	56 1/2"	53 1/2"	OS-OS500
1000 2 COMPARTMENT	96"	62"	64"	56 3/4"	53 3/4"	OS-OS1000-II
1250 2 COMPARTMENT	96"	62"	76"	68 1/2"	65 1/2"	OS-OS1250-II
1500 2 COMPARTMENT	102"	69 3/4"	76"	68"	65"	OS-OS1500-II
2000 2 COMPARTMENT	126 1/2"	60 1/2"	96"	83"	81"	OS-OS2000
2500 2 COMPARTMENT	168"	84"	74"	61"	58"	OS-OS2500
3100	168"	84"	86"	73"	70"	OS-OS3100
3500	168"	84"	93"	80"	77"	OS-OS3500
3700	168"	84"	96"	83"	80"	OS-OS3700
4500	168"	84"	112"	99"	96"	OS-OS4500
5000	168"	84"	122 1/2"	109 1/2"	106 1/2"	OS-OS5000
6000	168"	84"	137 3/4"	128"	125"	OS-OS6000
		LOW P	ROFILE - N	<b>ION-TRAF</b>	FIC	
DESCRIPTION	"L"	"W"	"H" *	"INLET"	"OUTLET'	' DWG. #
1000 2 COMPARTMENT	126 1/2"	60 1/2"	56 3/4"	46 3/4"	44 3/4"	OS-OS1000-LP
1250 2 COMPARTMENT	126 1/2"	60 1/2"	64 1/2"	55"	53"	OS-OS1250-LP
1500 2 COMPARTMENT	126 1/2"	60 1/2"	71"	64"	62"	OS-OS1500-LP
2000 2 COMPARTMENT	168"	84"	64"	51"	48"	OS-OS2000-LP
* HEIGHT SHOWN IS OV ** MAY ALSO USE ADAP				PLUS FRA	AME & COV	ER & RISER.
oncrete Products, Inc. 2007 NS ARE SUBJECT TO CHANGE W		-				

16 1,000 GALLON WATER & OIL SEPARATOR





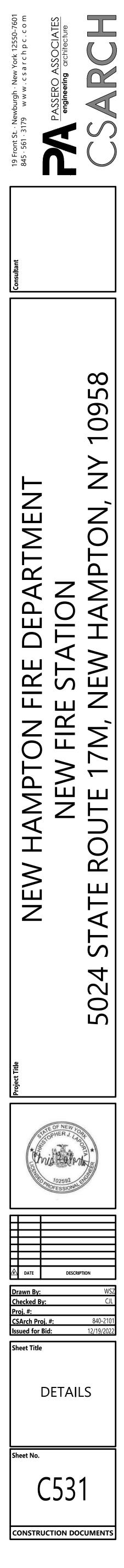




SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO SPECIFICATIONS.

CRUSHED STONE

COMPACTED SUBGRADE



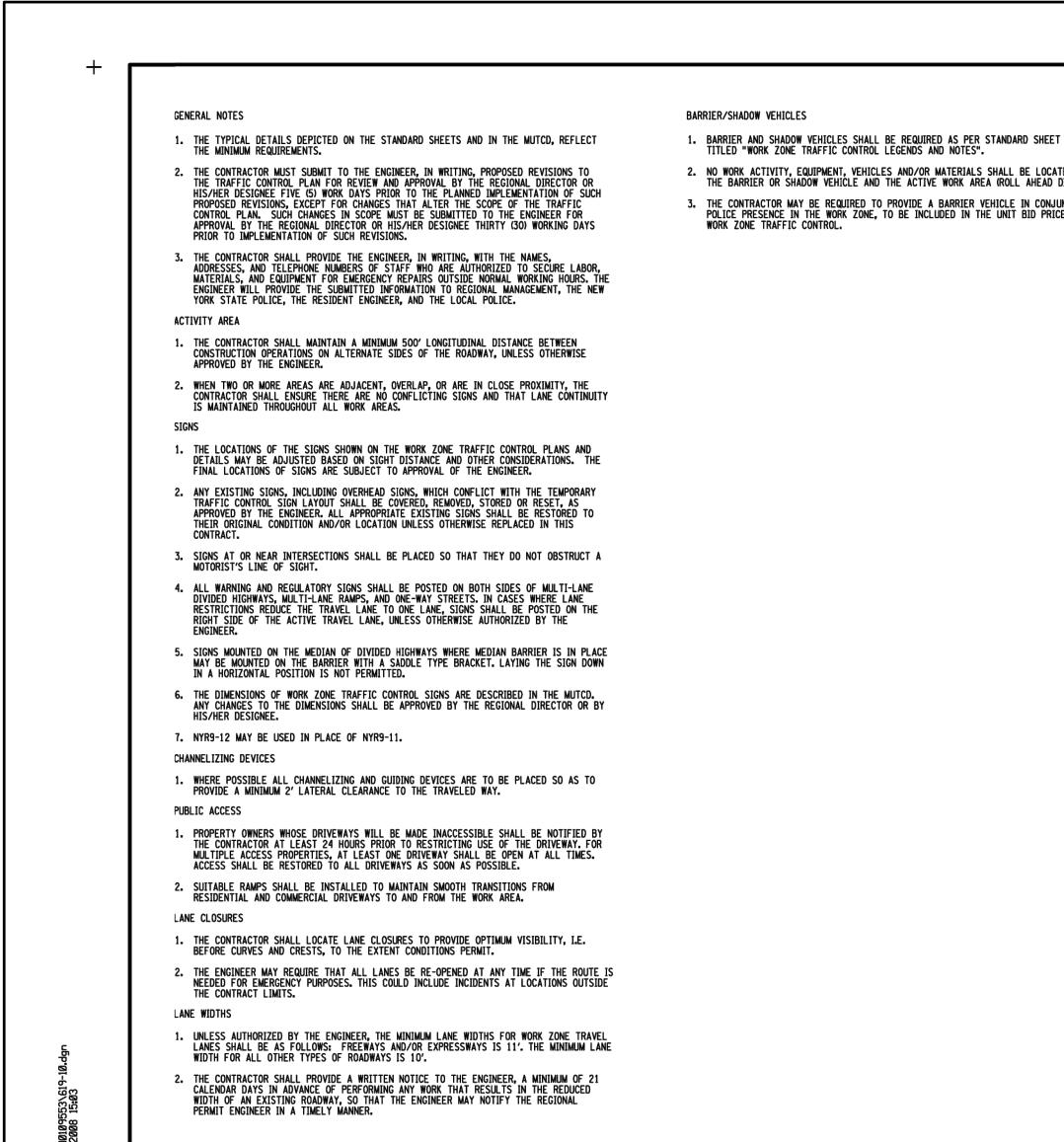


TABLE NY1-A BARRIER VEHICLE USE REQUIREMENTS (LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)								
USE REQUIREMENTS 4,5								
CLOSURE TYPE	EXPOSURE CONDITION <sup>1</sup>	FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT					
		FREEWAT	≥ 45 MPH	35-40 MPH	≤ 30 MPH			
	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL2			
LANE CLOSURE	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>			
	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>			
SHOULDER CLOSURE	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>			

	TABLE 6H-4 FORMUL	AS FOR DE	TERMINING	TAPER LE	NGTHS			TABLE 6C-3	]			
speed limit (S) (MPH)	TAPER LENGT							TAPER LENGTH FOR TEMPORARY TRAFFIC CONTROL ZONES				
(40 MPH) OR LES	$L = WS^2 / 60$		L = TAPER LI W = WIDTH OF S = PRECONS	F OFFSET (	T.) OSTED SP	FFD ITMIT /	(PH)	TYPE OF TAPER TAPER LENGTH (L)	-			
(45 MPH) OR MOI	RE L = WS		S - FRECONS		USTED SPI		AF (1)	MERGING TAPER L SHIFTING TAPER L/2	-			
	STAN	IDARD TAPE	R LENGTHS					SHOULDER TAPER L/3	1			
ATERAL SHIFT	TEMPORARY TR	AFFIC CONTRO	DL ZONE POSTE	ED SPEED L	IMIT			ONE-LANE, TWO-WAY TRAFFIC TAPER 100 FT. MAXIMUM DOWNSTREAM TAPER 100 FT. PER LANE	]	WOR	K ZONE TRAFFIC CON	TROL LEGEND
TRAFFIC OW PATH (25	MPH) (30 MPH) (35 MPH)	(40 MPH) (45	MPH) (50 MPH		(60 MPH)	(65 MPH) (7	'o mph)		SY	MBOL	DESCR	RIPTION
	45 60 85 55 75 105		80 200 225 250	220 275	240 300	260 325	280 350		R	• • • •	ARROW PANEL	
7	65         90         125           75         105         145	190 3	270 300 315 350	330 385	360 420	390 455	420 490		:	•	ARROW PANEL, CAUTION	MODE
9 9	85 120 165 95 135 185	240 4	360         400           105         450           100         500	440	480 540	520 585	560 630		ī		ARROW PANEL TRAILER C	or support
11 :	105         150         205           115         165         225           125         180         245	295 4	150 500 195 550 540 600	550 605 660	600 660 720	650 715 780	700 770 840		F		CHANGEABLE MESSAGE S	ign (pvms)
	100 243	JEU   J		000	120	ן וסט ן	עדט			•	CHANNELIZING DEVICE	
									, <b> </b>	₽	CRASH CUSHION/TEMPORA	RY IMPACT ATTENUATOR
	<b>_</b>							TABLE 619-4 FLARE RATES FOR POSITIVE BARRIER		→	DIRECTION OF TEMPORAR	Y TRAFFIC DETOUR
	TAE LONGITUDIN/	BLE 6C-2 Al Buffer	SPACE					POSTED         SPEED         LIMIT           TYPE         OF         POSITIVE         BARRIER         30         40         50         55         65           MPH         MPH         MPH         MPH         MPH         MPH		⊳	DIRECTION OF TRAFFIC	
	PRECONSTRUCTION POSTED	DIST	TANCE					MPH         MPH <td></td> <td>-•</td> <td>FLAGGER</td> <td></td>		-•	FLAGGER	
	SPEED LIMIT (MP) 25 30	155	FT.							$\Upsilon^{\bullet}$	FLAG TREE	
	35 40 45	250 305	) FT. FT.   FT.					TABLE NY6H-3 Advance Warning Sign Spacing	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		LUMINAIRE	
	50 55 60	425	FT.					ROAD TYPE DISTANCE BETWEEN SIGNS SIGN LEGEND A (FT.) B (FT.) C (FT.) XX YY		////	PAVEMENT MARKINGS THA REMOVED FOR A LONG T	NT SHALL BE ERM PROJECT
	65		FT.					AN (≤ 30 MPH+) 100 100 100 AHEAD AHEAD AN (35-40 MPH+) 200 200 200 AHEAD AHEAD		F	SIGN, TEMPORARY	
	TAD	LE NY2-A			1			AN (≥ 45 MPH+) 350 350 350 1000 FT. AHEAD			TEMPORARY BARRIER	
	PLACEMENT DISTANC	E FOR BARI	RIER VEHICL	LES				RESSWAY / FREEWAY 1000 1500 2640 1 MILE 1/2 MILE	1	•	TEMPORARY BARRIER WIT	H WARNING LIGHTS
POSTEI	D	PLACEMENT DI BARRIER VE	EHICLES+					(MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA) ALKS, BICYCLE USAGE, CURBING, CLOSED DRAINAGE SYSTEMS,	C	)►	TRAFFIC OR PEDESTRIAN	SIGNAL
SPEED (MPH)	LIMIT (18000 MINIMUM > 55 100 FT.	LBS.) MAXIMUM 200 FT.	(24000 MINIMUM 100 FT.	LBS.) MAXIMUM 200 FT.			DRIVE	AY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR RCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR		<b>XX</b>	TYPE III BARRICADE	
45	55         100 FT.           5 - 55         100 FT.           < 45	200 FT. 200 FT. 165 FT.	85 FT. 50 FT.	165 FT. 100 FT.			CONST	ER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT OF WAY RAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE S OF 45 MPH OR LESS.		Q	WARNING LIGHTS	
	FINED IN NYSDOT STANDA	II	, <b>I</b>	100 11.	_			ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CTERISTICS.			WORK SPACE	
BARRIER	R VEHICLE - VEHICLE USER ES, LANE CLOSURES, AND	) FOR STATION	NARY SHOULDER	R DNES.			CONTR	SSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL			WORK VEHICLE	
MINIMUM	DISTANCE SHOWN REFLEC FROM MANUFACTURER.						FREEW	JOR CROSSROADS. AYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH-SPEED, DIVIDED, OLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.		ŢŢŢĒ	WORK VEHICLE WITH TRU	CK MOUNTED ATTENUATOR
	TAB PLACEMENT DISTANC	LE NY2-B E FOR SHA	DOW VEHICL	.ES	]							
PRECO		PLACEMENT DI	STANCE (FT.)		-			WORK DURATION DEFINITIONS	_		-	
POSTEI SPEED (MPH)	D	SHADOW VEI LBS.) MAXIMUM	HICLES++ (24000   MINIMUM	LBS.) Maximum	4		LONG THAN	TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE 3 CONSECUTIVE DAYS.				OF NEW YORK OF TRANSPORTATION
	> 55 230 FT. 5 - 55 180 FT.	330 FT. 280 FT.	180 FT. 150 FT.	280 FT.	1		MORE	MEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR TIME WORK LASTING MORE THAN 1 HOUR.	╞			
	< 45 100 FT.	200 FT.	100 FT.	200 FT.	]		SHOR	T-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION WORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.	-		U.S. CUSTOMARY ST	ANDARD SHEET
	FINED IN NYSDOT STANDA							T DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.			WORK ZONE TRA	FFIC CONTROL
WORK OF	VEHICLE - VEHICLE USED PERATIONS.							E IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.			LEGENDS AN	
MINIMUM DISTANC	I DISTANCE SHOWN REFLEC E FROM MANUFACTURER.	IS THE ACTUA	AL KULL AHEAI	U						APPROVED	SEPTEMBER 18, 2008	ISSUED UNDER EB 08-0
										S/ DAVID	J. CLEMENTS, P.E.	
								EFFECTIVE DATE: 01/0	3/09	)IRECTOR, O	OFFICE OF FETY AND MOBILITY	619-11

. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.

. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRANSVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.

BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE6C-2) SHALL BE PROVIDED.

TABLE NY1-B SHADOW VEHICLE USE REQUIREMENTS (MOBILE CLOSURES)									
			USE REQUI	REMENTS					
CLOSURE TYPE	EXPOSURE CONDITION		NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIM						
			≥ 45 MPH	35-40 MPH	≤ 30 MPH				
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>				
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>				

A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTL' ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.

. SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 35 MPH OR MORE, SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE SPEED LIMIT OF 45 MPH OR MORE.

3. FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 30 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.

4. A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS (ON FOOT OR IN A VEHICLE) AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROMOTE THE SAFE OPERATION OF TRAFFIC AND THE INCREASED PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.

TA				] [				
TA LIMIT (S)	BLE 6H-4 FORMULAS FOR	VETERMINING TAPER LE	NG1H5	TABLE 60 TAPER LENGTH FOR	R TEMPORARY			
PH) OR LESS	(FT.) L = WS <sup>2</sup> /60	L = TAPER LENGTH W = WIDTH OF OFFSET (	T.) Osted speed limit (MPH)					
PH) OR MORE	L = WS	S = PRECONSTRUCTION P	OSTED SPEED LIMIT (MPH)	TYPE OF TAPER MERGING TAPER	TAPER LENGTH (L) L L/2			
	STANDARD	LAPER LENGTHS		SHIFTING TAPER SHOULDER TAPER	L/3	<b></b>		
SHIFT	TEMPORARY TRAFFIC C	ONTROL ZONE POSTED SPEED L	IMIT	ONE-LANE, TWO-WAY TRAFFIC TAPER DOWNSTREAM TAPER	100 FT. MAXIMUM 100 FT. PER LANE	WOR	K ZONE TRAFFIC CO	NTROL LEGEND
	1) (30 MPH) (35 MPH) (40 MPH					SYMBOL	DES	CRIPTION
45	60         85         110           75         105         135	180         200         220           225         250         275	240         260         280           300         325         350			·····	ARROW PANEL	
65 75 85	90         125         160           105         145         190           120         165         215	270         300         330           315         350         385           360         400         440	360         390         420           420         455         490           480         520         560	-		:::	ARROW PANEL, CAUTION	I MODE
95	120         105         215           135         185         240           150         205         270	300         400         440           405         450         495           450         500         550	400         520         500           540         585         630           600         650         700	-		•••	ARROW PANEL TRAILER	or support
115 125	165         225         295           180         245         320	495         550         605           540         600         660	660         715         770           720         780         840			н	CHANGEABLE MESSAGE	SIGN (PVMS)
				-			CHANNELIZING DEVICE	
			Γ-	TABLE 619-4			CRASH CUSHION/TEMPO	RARY IMPACT ATTENUATOR
	TABLE 6C	2		FLARE RATES FOR POSITI	VE BARRIER POSTED SPEED LIMIT		DIRECTION OF TEMPORA	ARY TRAFFIC DETOUR
	LONGITUDINAL BUF			TYPE OF POSITIVE BARRIER	30 40 50 55 65 MPH MPH MPH MPH MPH		DIRECTION OF TRAFFIC	
	PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE		PORARY CONCRETE BARRIER BEAM OR HEAVY POST CORRUGATED BEAM	8:1         11:1         14:1         16:1         20:1           7:1         9:1         11:1         12:1         15:1	•	FLAGGER	
	25 30 35	155 FT. 200 FT. 250 FT.		TABLE NY6H-3			FLAG TREE	
	40 45	305 FT. 360 FT.		ADVANCE WARNING SIGN			LUMINAIRE	
	50 55 60	425 FT. 495 FT. 570 FT.		ROAD TYPE A (FT.) B (FT.)	N SIGNS SIGN LEGEND C (FT.) XX YY		PAVEMENT MARKINGS T REMOVED FOR A LONG	HAT SHALL BE Term project
	65	645 FT.		RBAN (≤ 30 MPH+) 100 100 RBAN (35-40 MPH+) 200 200	100 AHEAD AHEAD 200 AHEAD AHEAD	F	SIGN, TEMPORARY	
	TABLE NY2	-A		BAN (≥ 45 MPH+)         350         350           IRAL         500         500	350 1000 FT. AHEAD 500 1500 FT. 1000 FT.		TEMPORARY BARRIER	
PL	ACEMENT DISTANCE FOR	BARRIER VEHICLES		(PRESSWAY / FREEWAY     1000     1500       ECONSTRUCTION     POSTED     SPEED     LIMIT	2640 1 MILE 1/2 MILE		TEMPORARY BARRIER W	ITH WARNING LIGHTS
PRECONSTR	BARRI	NT DISTANCE (FT.) ER VEHICLES+	URBA	N: (MEETS MORE THAN 1 OF THE FOLLOWI WALKS, BICYCLE USAGE, CURBING, CLOSED D	NG CRITERIA) DAINAGE SYSTEMS	0►	TRAFFIC OR PEDESTRIA	IN SIGNAL
SPEED LIM (MPH) > 55	MINIMUM MAXIM			WAY DENSITIES GREATER THAN 24 DRIVEW ERCIAL DRIVEWAY DENSITIES OF 10 DRIVEW TER, MAJOR COMMERCIAL DRIVEWAYS, NUMEF	NYS PER MILE, MINOR MAYS PER MILE OR		TYPE III BARRICADE	
45 -	55 100 FT. 200 F	T. 85 FT. 165 FT.	T CONS	TRAINTS, HIGH DENSITY OF CROSS STREETS DS OF 45 MPH OR LESS.	85TH PERCENTILE	<u>0</u>	WARNING LIGHTS	
	ED IN NYSDOT STANDARD SPEC		L RURA Char	L: ANY AREA NOT EXHIBITING MORE THAN ACTERISTICS.	ONE OF THE ABOVE		WORK SPACE	
BARRIER VE CLOSURES, I	HICLE - VEHICLE USED FOR ST LANE CLOSURES, AND OTHER S	ATIONARY SHOULDER FATIONARY WORK ZONES.	CONT	ESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC ROL OF ACCESS AND GENERALLY WITH GRAU	WITH FULL OR PARTIAL DE SEPARATIONS		WORK VEHICLE	
MINIMUM DIS DISTANCE F	STANCE SHOWN REFLECTS THE ROM MANUFACTURER.	ACTUAL ROLL AHEAD	FREE	AJOR CROSSROADS. WAYS/INTERSTATE: LOCAL OR INTER REGIC -VOLUME FACILITIES WITH FULL OR PARTIAL	NAL HIGH-SPEED, DIVIDED, CONTROL OF ACCESS.		WORK VEHICLE WITH T	RUCK MOUNTED ATTENUATOR
	TABLE NY2		1					
	ACEMENT DISTANCE FOR	SHADOW VEHICLES		WORK DURATION DEFINI	TIONS			
PRECONSTR POSTED SPEED LIM	SHADO	NT DISTANCE (FT.) W VEHICLES++ (24000 LBS.)		G-TERM STATIONARY IS WORK THAT OCCUPI N 3 CONSECUTIVE DAYS.			STATE	OF NEW YORK
(MPH) > 55	MINIMUM MAXIM	UM MINIMUM MAXIMUM		ERMEDIATE-TERM STATIONARY IS WORK THAT	OCCUPIES A LOCATION		DEPARTMENT	OF TRANSPORTATION
45 -	55 180 FT. 280 F	T. 150 FT. 250 FT.	NIG	E THAN ONE DAYLIGHT PERIOD UP TO 3 CO ITTIME WORK LASTING MORE THAN 1 HOUR.			U.S. CUSTOMARY S	STANDARD SHEET
• AS DEFIN	ED IN NYSDOT STANDARD SPEC	FICATION 619:	FOR	RT-TERM STATIONARY IS DAYTIME WORK TH MORE THAN 1 HOUR WITHIN A SINGLE DAY	LIGHT PERIOD.			
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					EFFECTIVE DATE: 01/08/0	DIRECTOR, C	J. CLEMENTS, P.E. DFFICE OF FETY AND MOBILITY	619-11

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	(FT.)			L = 1 W - 1	TAPER LEN WIDTH OF	IGTH OFFSET #	FT.)			TRAFFIC CONTR					
(PH) OR LESS				S =	PRECONSTR	RUCTION P	OSTED SPE	ED LIMIT	(MPH)	TYPE OF TAPER MERGING TAPER	TAPER LENGTH (L) L				
(PH) OR MORE	L -				NOTIC					SHIFTING TAPER SHOULDER TAPER	L/2 L/3				
SHIFT	TEMP			APER LE	NG THS	SPEED 1	IMIT			ONE-LANE, TWO-WAY TRAFFIC TAPER DOWNSTREAM TAPER	100 FT. MAXIMUM 100 FT. PER LANE		WOF	RK ZONE TRAFFIC CO	ONTROL LEGEND
IC	(30 MPH)							(65 MPH)	(70 MPH)				YMBOL	DES	CRIPTION
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85 95 105	120 135 150	165 185 205	215 240 270	360 405 450	400 450 500	440 495 550	480 540 600	520 585 650	560 630 700				•••	ARROW PANEL TRAILER	or support
115	165 180	205 225 245	295 320	495	550 550 600	605 660	660 720	715	770				н	CHANGEABLE MESSAGE	SIGN (PVMS)
														CHANNELIZING DEVICE	
										TABLE 619-4				CRASH CUSHION/TEMPO	RARY IMPACT ATTENUATOR
	[									FLARE RATES FOR POSITI				DIRECTION OF TEMPORA	ARY TRAFFIC DETOUR
	LONG		LE 6C-2 L BUFF	2 Er spac	æ					TYPE OF POSITIVE BARRIER	POSTEDSPEEDLIMIT304050556MPHMPHMPHMPHM	5 PH	⇒	DIRECTION OF TRAFFIC	
	POSTED	TRUCTION		DISTANCE						DRARY CONCRETE BARRIER BEAM OR HEAVY POST CORRUGATED BEAM	8:1   11:1   14:1   16:1   20	D:1		FLAGGER	
		25 30		155 FT. 200 FT.					<b>—</b>	TABLE NY6H-3			$\mathbf{Y}$	FLAG TREE	
		10 15		250 FT. 305 FT. 360 FT.						ADVANCE WARNING SIGN	SPACING	•		LUMINAIRE	
	5	50 55 50		425 FT. 495 FT. 570 FT.						ROAD TYPE A (FT.) B (FT.)		- N		PAVEMENT MARKINGS T REMOVED FOR A LONG	HAT SHALL BE Term project
	t	5		645 FT.	]					AN (≤ 30 MPH+) 100 100 AN (35-40 MPH+) 200 200	100 AHEAD AHEA 200 Ahead Ahea		F	SIGN, TEMPORARY	
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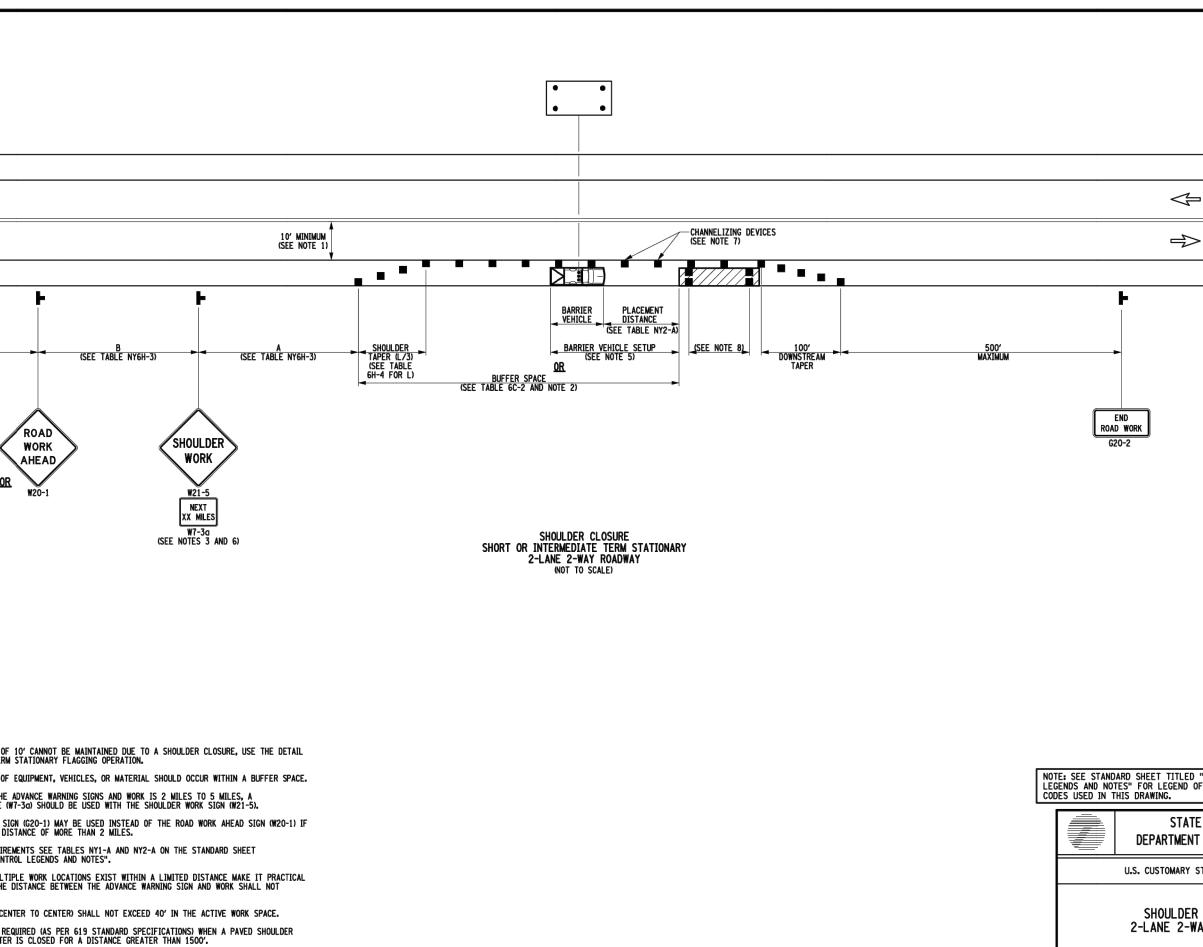
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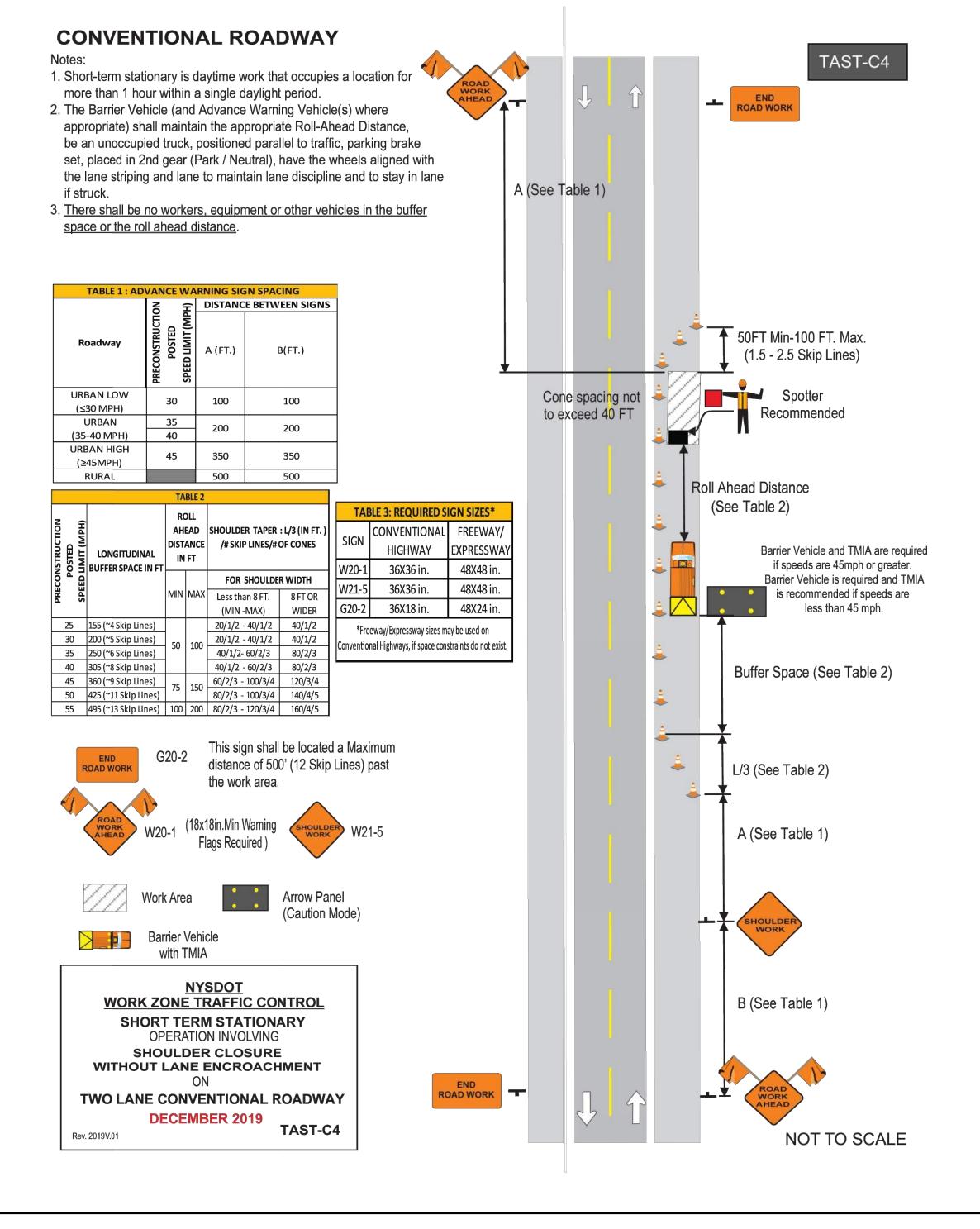
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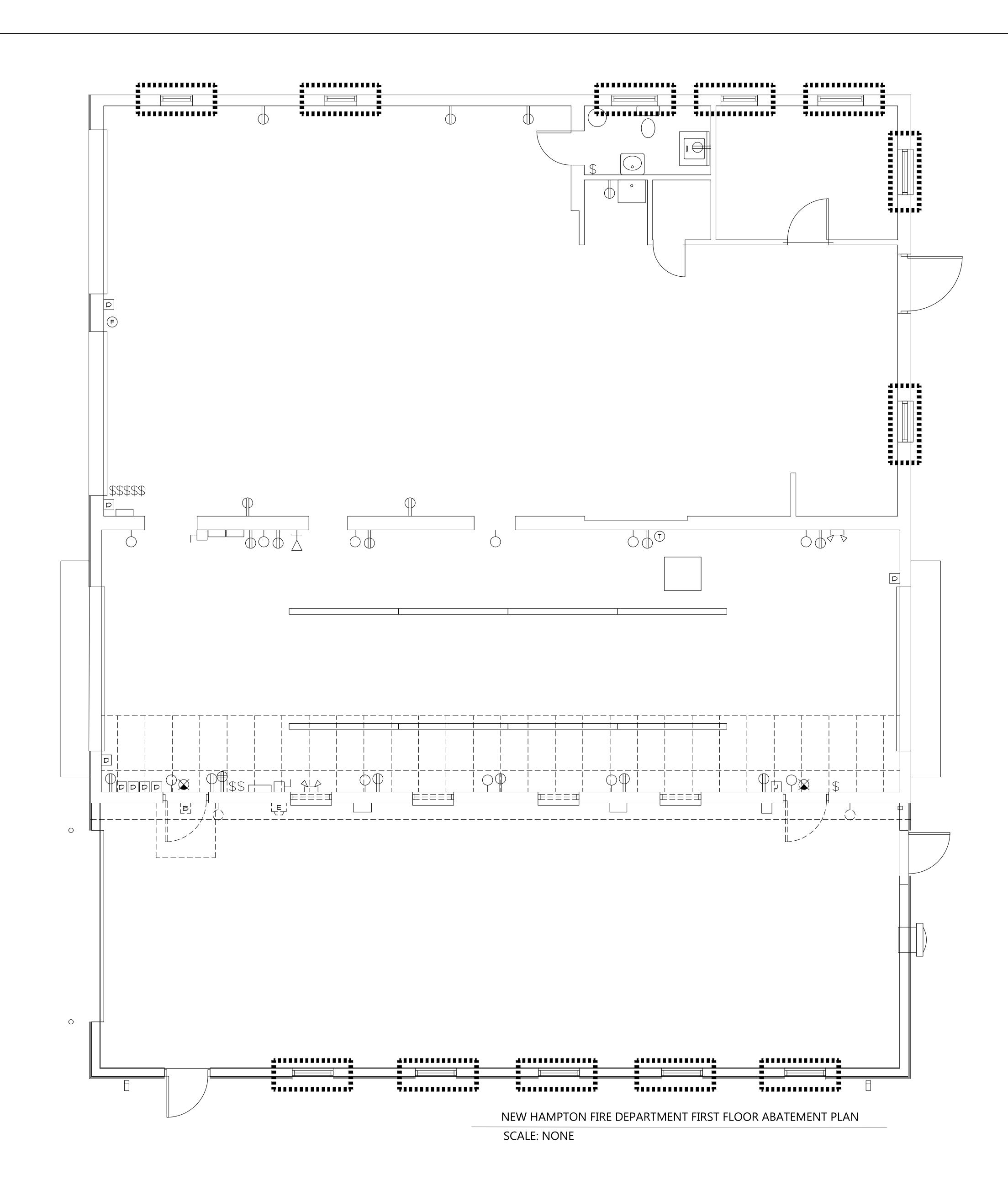


PPROVED SEPTEMBER 15, 2009 /S/ DAVID J. CLEMENTS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY EFFECTIVE DATE: 01/07/10



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"WORK ZONE TRAFFIC CONTROL OF SYMBOLS AND/OR LETTER
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# QUALITY ENVIRONMENTAL QUALITY ENVIRONMENTAL SOLUTIONS & TECHNOLOGIES, INC. 1376 NYS ROUTE 9 WAPINGERS FALLS, NY 12590 TEL. : (845) 298-6031 TEL. : (845) 298-6031

## ASBESTOS ABATEMENT LEGEND

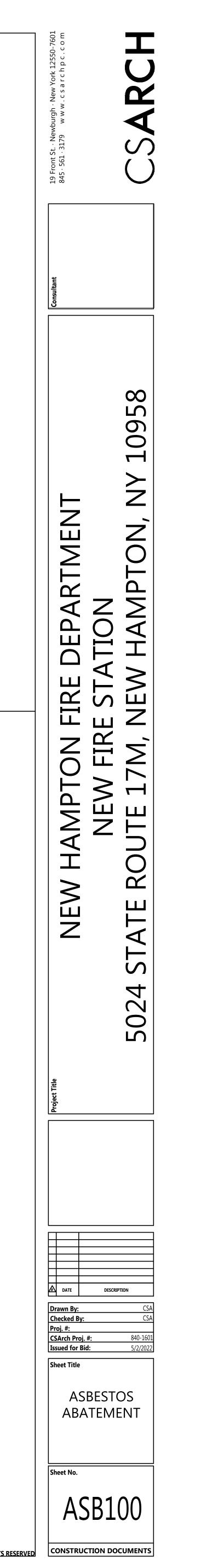


## ASBESTOS ABATEMENT NOTES

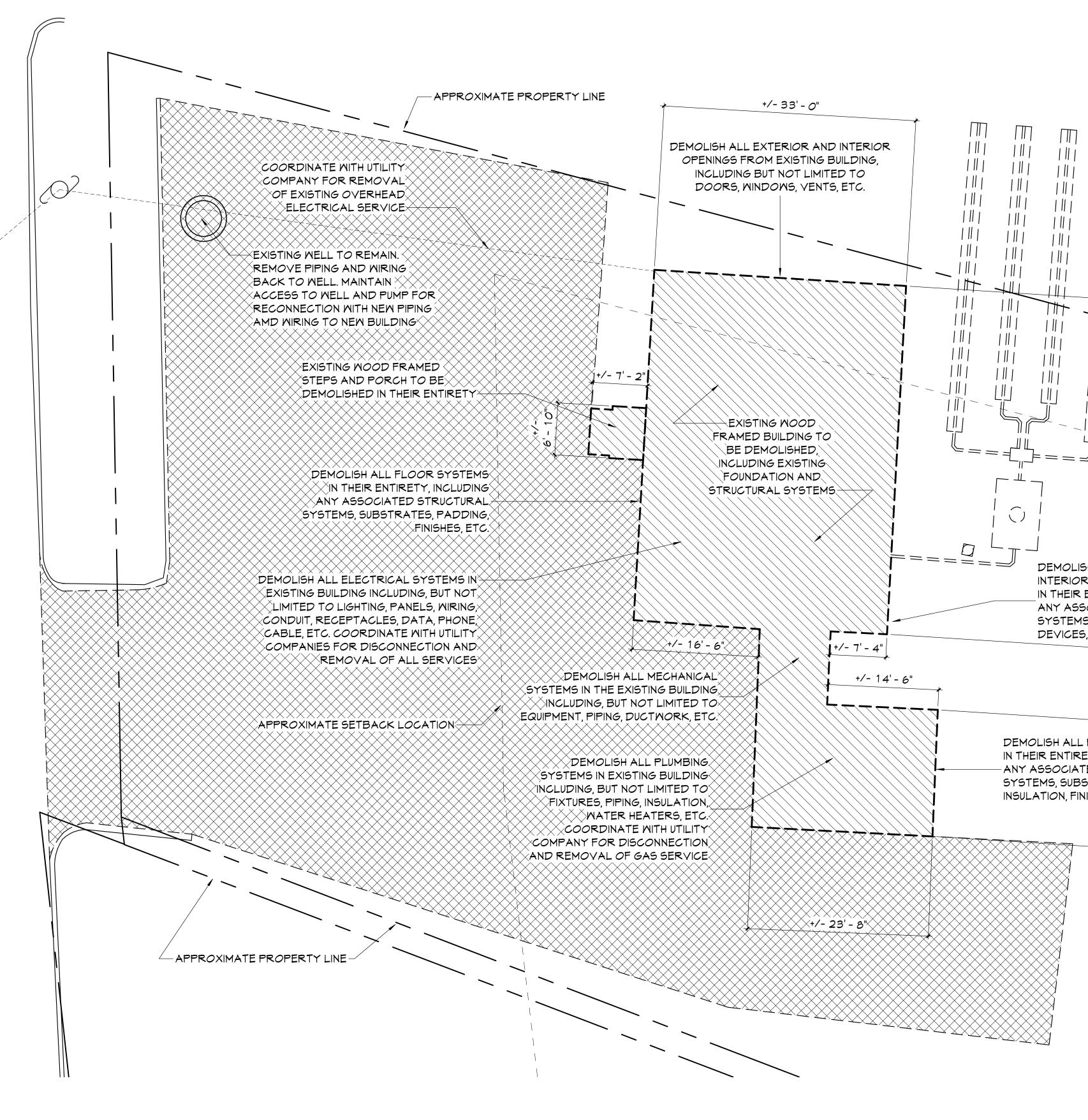
ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR COMPLETE REMOVAL AND DISPOSAL OF 200 LINEAR FEET OF EXTER-IOR, NON-FRIABLE, ASBESTOS CONTAINING WINDOW GLASS GLAZING COMPOUND AS INDICATED ON THE ATTACHED ACM LOCATION DRAWINGS. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL DEMOLITION ACTIVITIES REQUIRED TO ACCESS MATERIALS IDENTIFIED WITHIN THE WORK SCOPE AND ON ASSOCIATED DRAWINGS, AS WELL AS PROVIDING FOR ALL LABOR, MATERIALS , EQUIPMENT AND SUPERVISION TO ACCESS ACM MATERIALS AND PROPERLY EXECUTE THE ABATEMENT AND DISPOSAL

ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NYS BUILDING CODE, LATEST EDITION AND ALL APPLICABLE LOCAL AND STATE LAWS.

REFER TO SPECIFICATIONS SECTION 3.17 FOR A DESCRIPTION OF THE MATERIALS TO BE ABATED.



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AD101<sup>1/8" = 1'-0"</sup> EXISTING ADJACENT BUILDING DEMOLITION PLAN BUILDING LOCATED AT: 5030 STATE ROUTE 17M, NEW HAMPTON, NY

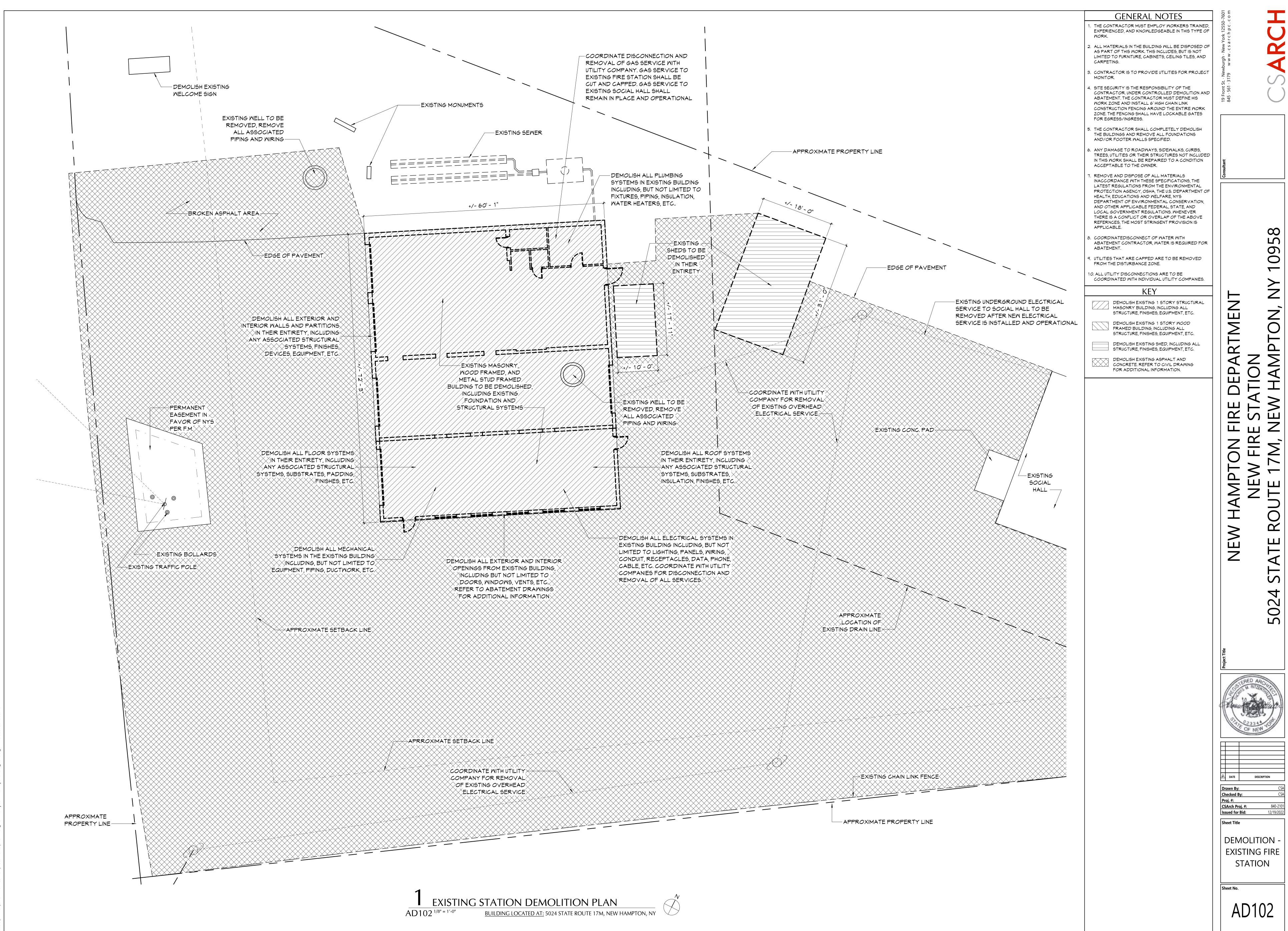


	1. THE CONTRACTOR MUST EMPLI
	WORK. 2. ALL MATERIALS IN THE BUILDING AS PART OF THIS WORK. THIS IN
	LIMITED TO FURNITURE, CABINE CARPETING. 3. CONTRACTOR IS TO PROVIDE
	4. SITE SECURITY IS THE RESPONS CONTRACTOR. UNDER CONTRO
	ABATEMENT. THE CONTRACTO WORK ZONE AND INSTALL 6' HIC CONSTRUCTION FENCING AROU ZONE. THE FENCING SHALL HAV FOR EGRESS/INGRESS.
	5. THE CONTRACTOR SHALL COM THE BUILDINGS AND REMOVE A AND/OR FOOTER WALLS SPEC
	6. ANY DAMAGE TO ROADWAYS, TREES, UTILITIES OR THEIR STR IN THIS WORK SHALL BE REPAIR
	ACCEPTABLE TO THE OWNER. 7. REMOVE AND DISPOSE OF ALL INACCORDANCE WITH THESE SF LATEST REGULATIONS FROM TH PROTECTION AGENCY, OSHA, T HEALTH, EDUCATIONS AND WEL DEPARTMENT OF ENVIRONMEN AND OTHER APPLICABLE FEDE LOCAL GOVERNMENT REGULAT THERE IS A CONFLICT OR OVER REFERNCES, THE MOST STRING APPLICABLE.
	8. COORDINATEDISCONNECT OF I ABATEMENT CONTRACTOR, WA ABATEMENT.
	9. UTILITIES THAT ARE CAPPED AN FROM THE DISTURBANCE ZONE
	10. ALL UTILITY DISCONNECTIONS COORDINATED WITH INDIVIDUAL
	DEMOLISH EXISTING 1 MASONRY BUILDING, IN
EXISTING SEPTIC	STRUCTURE, FINISHES, DEMOLISH EXISTING 1 FRAMED BUILDING, INC
	DEMOLISH EXISTING SI STRUCTURE, FINISHES,
	DEMOLISH EXISTING A CONCRETE. REFER TO FOR ADDITIONAL INFO
APPROXIMATE SETBACK LOCATION	
OR WALLS AND PARTITIONS R ENTIRETY, INCLUDING SSOCIATED STRUCTURAL	
MS, FINISHES, ES, EQUIPMENT, ETC.	
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CONSTRUCTION DOCUMENTS

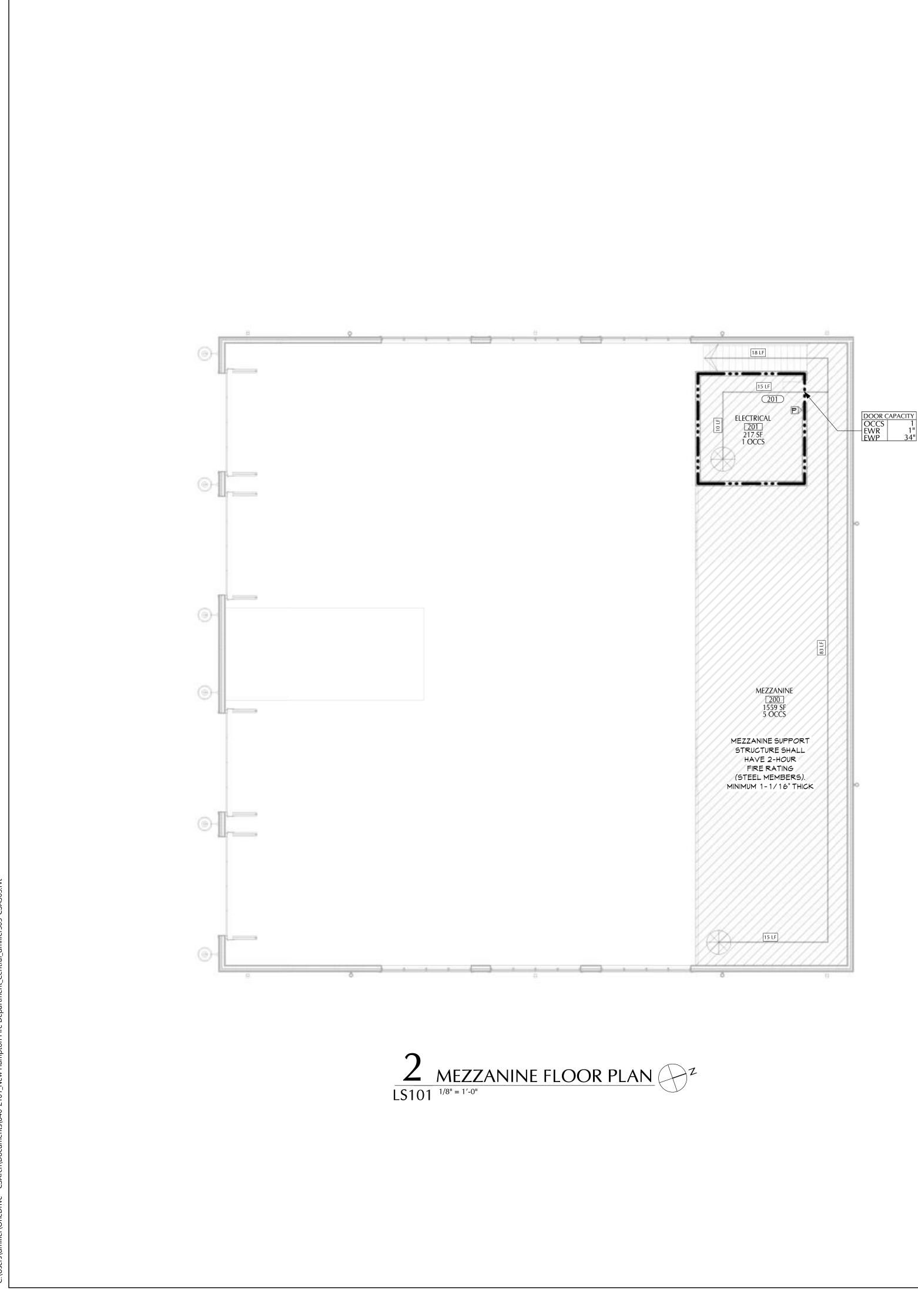
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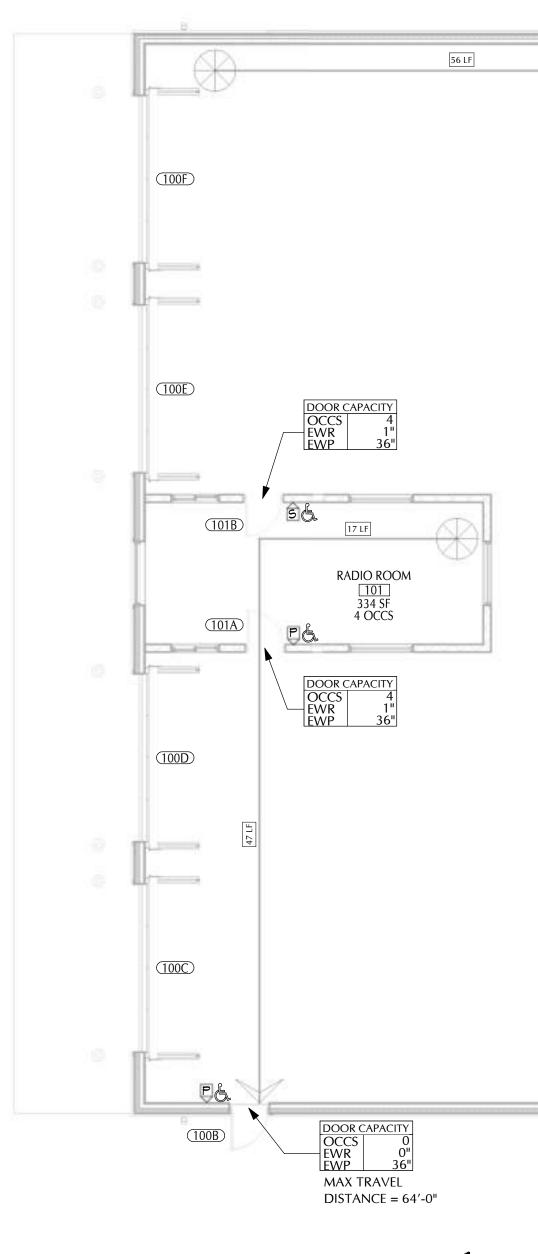


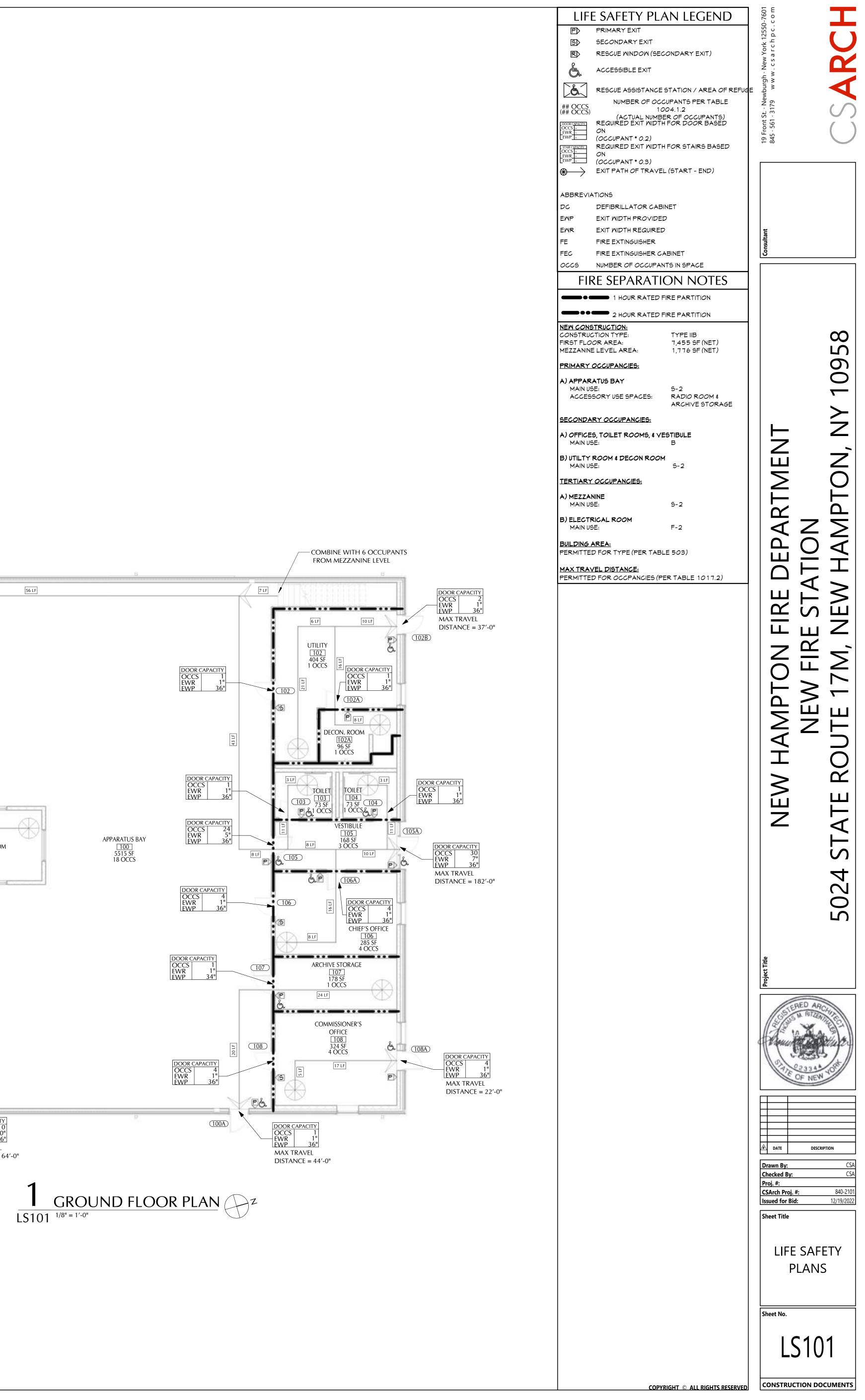
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CONSTRUCTION DOCUMENTS







#### **GENERAL NOTES:**

- 1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, HVAC, AND PLUMBING DRAWINGS AND SPECIFICATIONS. 2. THE CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. IN THE FIELD
- AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION OR SHOP DRAWINGS.
- 3. THE DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT PROPER FOR THE WORK.
- 4. ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES AND REQUIREMENTS 5. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES SEQUENCES, AND SAFETY PROCEDURES. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR AGENTS OR EMPLOYEES OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.
- OBSERVE ALL OSHA AND OTHER APPLICABLE SAFETY REQUIREMENTS INCLUDING THE USE OF SAFETY GLASSES, HARD HATS, AND PROTECTION OF AREA WHEN WORKING OVERHEAD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CONSTRUCTION SAFETY AT ALL TIMES.
- COORDINATE WORK OF ALL DISCIPLINES (STRUCT., ARCH., MECH., ELECT., ETC.) WITH EXISTING CONDITIONS, SPECIAL REQUIREMENTS, CONSTRUCTION SCHEDULE AND OTHER CONTRACTORS PERFORMING WORK AT THE SITE.
- ALL TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, BRACING, ETC., AS NEEDED FOR THE WORK SO AS NOT TO ENDANGER THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE.
- 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO THE 10. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO
- CONSTRUCTION. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IMMEDIATELY. SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. CHANGES AFFECTING THE LAYOUT SHOWN MUST BE SPECIFIC AND CLEARLY CONVEYED TO THE OWNER'S REPRESENTATIVE IN WRITTEN FORM AS A CHANGE FOR INCLUSION INTO THESE
- 11. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND PROVIDE REVIEW STAMP ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER INDICATING UNDERSTANDING AND ACCEPTANCE OF SUBMITTAL AND CONFIRMING CONFORMANCE TO PROJECT PLANS/SPECIFICATIONS.
- 12. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY
- 13. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, PROCESS OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE PERTINENT TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

#### FOUNDATION NOTES:

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT BY THE CHAZEN COMPANIES, PROJECT NO.41916.00, AND DATED MAY 21, 2019. THE CONTRACTOR SHALL THOROUGHLY REVIEW AND UNDERSTAND ALL PERTINENT CONSTRUCTION ASPECTS OF THIS REPORT BEFORE BEGINNING ANY WORK AND SHALL ENSURE ALL APPLICABLE WORK IS DONE IN ACCORDANCE WITH THIS REPORT. DESIGN OF FOOTINGS AND FOUNDATION WALLS IS BASED ON THE FOLLOWING CRITERIA:
- a. MAXIMUM ALLOWABLE BEARING PRESSURE = 2,000 PSF FOOTING ELEVATION SHOWN REPRESENT THE MINIMUM DEPTH TO WHICH FOOTINGS SHALL BE PLACED, BUT Shall bear at a depth below finished grade no less than 4' - 0". Footings shall be lowered as REQUIRED TO OBTAIN SUITABLE BEARING. WHERE FOOTINGS ARE REQUIRED TO BE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINER OF RECORD. ALL UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED WITH FOOTINGS RESTING ON STRUCTURAL FILL WITH A MINIMUM BEARING CAPACITY OF 2,000 PSF, UNLESS OTHERWISE INDICATED.
- ALL STRUCTURAL SHALLOW FOUNDATIONS SHALL BEAR ON A MINIMUM 8" THICK LAYER OF PROPERLY PLACED AND COMPACTED STONE FILL WHICH SHALL EXTEND A MINIMUM OF 6" FROM EACH EDGE OF THE FOOTING. ADDITIONALLY, A LAYER OF NON-WOVEN, GEOTEXTILE FABRIC SHALL BE LOCATED BETWEEN THE PREPARED SUBGRADE AND THE LAYER OF STONE FILL. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- A GEOTECHNICAL ENGINEER SHALL OBSERVE THE OPEN EXCAVATION TO DETERMINE THAT THE SOIL TYPE AND CONDITIONS ARE CONSISTENT WITH DESIGN CRITERIA OF THE SOIL REPORT. IF THE SOIL PROPERTIES ARE FOUND TO BE DIFFERENT FROM THIS CRITERIA THE OWNER'S REPRESENTATIVE SHALL BE PROMPTLY NOTIFIED SO THAT THE FOUNDATION DESIGN MAY BE REVIEWED.
- NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. WHERE FOOTINGS ARE REQUIRED TO BE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINEER OF RECORD.
- 7. TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS.
- WHERE ROCK OUTCROPPINGS ARE ENCOUNTERED IN ANY FOOTING EXCAVATION, UNDERCUT TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW ELEVATION OF BOTTOM OF FOOTING AND BACKFILL WITH THOROUGHLY COMPACTED #10 FINES.
- UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE LOCATED ON COLUMN CENTERLINES.

#### **CONCRETE NOTES:**

- 1. COMPLY WITH THE FOLLOWING CODES AND STANDARDS: a. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- b. ACI 305, ACI 306, ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". c. ACI DETAILING MANUAL (ACI SP-66-04).
- d. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK". e. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE".
- f. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING
- CONCRETE". materials:
- a. REINFORCING BARS ASTM A615, GRADE 60, DEFORMED. b. WELDED WIRE FABRIC (WWF) - ASTM A185, FLAT SHEETS.
- c. PORTLAND CEMENT-ASTM C150, TYPE II.
- d. AGGREGATES-ASTM C33. e. AIR ENTRAINING ADMIXTURE-ASTM C260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER
- REQUIRED ADMIXTURES. f. PROHIBITED ADMIXTURES-CALCIUM CHLORIDE THYOCYANATES OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED.
- CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED, PROVIDING BARS ARE OF THE LONGEST PRACTICABLE LENGTH AND SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS. WHEREVER POSSIBLE, SPLICES SHALL BE STAGGERED. FIELD CUTTING OF REINFORCEMENT WILL NOT BE PERMITTED
- UNLESS OTHERWISE SHOWN, BARS AT WALL AND CONTINUOUS FOOTING CORNERS AND INTERSECTIONS SHALL BE DETAILED AS SHOWN ON FIGURE 15 OF ACI SP-66-04. CORNER BARS SHALL BE DETAILED AS SHOWN FOR OUTSIDE LOADED ONLY CORNERS. INTERSECTIONS SHALL BE DETAILED WITHOUT DIAGONAL BARS. ALL END HOOKS SHALL BE STANDARD 90 DEGREE END HOOKS AND CORNER BARS SHALL BE 48 BAR DIAMETERS X 48 BAR DIAMETERS MINIMUM UNLESS NOTED OTHERWISE.
- PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS OTHERWISE INDICATED. DOWELS MUST BE PLACED AND SECURED PRIOR TO CONCRETE PLACEMENT ("WET STICKING" REINFORCING NOT PERMITTED"). MAJOR CONSTRUCTION JOINTS ARE SHOWN ON THE DRAWINGS. INTERMEDIATE JOINTS IN WALLS, SLABS,
- AND FLOOR FRAMING ARE NOT SHOWN. CONSTRUCTION JOINTS MAY BE ADDED, OMITTED OR RELOCATED IF PROPERLY DETAILED ON SHOP DRAWINGS AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SLEEVES IN CONCRETE WALLS AND SUPPORTED FLOORS. SPREAD REINFORCEMENT AT OPENINGS AND SLEEVES UNLESS OTHERWISE SHOWN. DO NOT CUT REINFORCEMENT. SEE TYPICAL REINFORCEMENT DETAILS FOR OPENINGS IN SLABS AND WALLS FOR ADDITIONAL REQUIREMENTS.
- PLACING OF REINFORCEMENT: PROVIDE CHAIRS, BOLSTERS, ADDITIONAL REINFORCEMENT, AND ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITION SHOWN ON DRAWINGS. SUPPORT OF REINFORCEMENT ON FORM TIES, WOOD, BRICK, BRICKBAT OR OTHER UNACCEPTABLE MATERIAL, WILL NOT BE PERMITTED.
- 9. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF ALL EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS
- 10. IN SLABS-ON-GRADE, PROVIDE 2 #4X4' 0" DIAGONAL BARS IN THE MIDDLE OF THE SLAB AT EACH CORNER OF OPENINGS OVER 1' 0" SQUARE AND AT RE-ENTRANT CORNERS. PROVIDE CONTROL JOINTS IN CAST-IN-PLACE CONCRETE SLABS-ON-GRADE AS INDICATED IN TYPICAL DETAIL. LOCATE CONTROL JOINTS TO FORM APPROXIMATE SQUARE PANELS WITH THE LENGTH OF ONE SIDE
- NOT EXCEEDING THE ADJACENT SIDE BY A FACTOR OF 1.5. CONTROL JOINTS MAY BE CONTRACTION JOINTS, CONSTRUCTION JOINTS, OR EXPANSION JOINTS. 12. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT THE MID-SPAN OF BEAMS, SLABS AND WALLS AND SHALL BE SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE. UNLESS NOTED OTHERWISE OR SHOWN ON THE DRAWINGS, AT CONCRETE SLABS ON STEEL DECK, SUPPORTED BY STEEL BEAMS AND GIRDERS, CONSTRUCTION JOINTS SHALL BE
- PLACED AT MID-SPAN OF DECK AND MID-WAY BETWEEN GIRDERS. 13. DEPRESS FLOOR SLABS AS REQUIRED; SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND DEPTH OF DEPRESSED AREAS. 14. CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES 3/4-INCH, UNO.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHEN IT IS SAFE TO REMOVE FORMS AND/OR SHORING. FORMS AND SHORING MUST NOT BE REMOVED UNTIL THE CONCRETE IS STRONG ENOUGH TO CARRY ITS OWN WEIGHT AND ANY ANTICIPATED SUPERIMPOSED LOADS. WHEN FORMS ARE STRIPPED THERE MUST BE NO EXCESSIVE DEFLECTION, DISTORTION, DISCOLORATION, AND NO EVIDENCE OF DAMAGE TO THE CONCRETE.

#### **MASONRY NOTES**

- 2. MATERIALS: a. CONCRETE MASONRY UNITS: HOLLOW OR SOLID UNITS ASTM C90. ALL UNITS SHALL BE TYPE I, NORMAL WEIGHT AUTOCLAVED CURED. MOISTURE CONTENT SHALL NOT EXCEED 30% OF MAXIMUM ABSORPTION, AND SHRINKAGE SHALL BE LESS THAN 0.35% AS PER ASTM C426.
- b. MORTAR: ASTM C270, TYPE S. NO MASONRY CEMENT WILL BE ALLOWED. c. f'm=2,000 psi.
- d. REINFORCEMENT BARS: ASTM A615 GRADE 60. e. JOINT REINFORCEMENT: TRUSS TYPE WITH 0.148 INCH DIAMETER.
- f. FINE GROUT: ASTM C476. 3. MASONRY STRENGTH:
- a. MASONRY SYSTEM COMPRESSIVE STRENGTH f'm = 1500 PSI b. MORTAR
- c. GROUT COMPRESSIVE STRENGTH 4. USE UNIT TEST METHOD, ACCORDING TO ASTM C -140, TO VERIFY MATERIALS PROPERTIES.
- 6. UNLESS OTHERWISE NOTED OR SHOWN, PROVIDE CMU LINTELS OVER OPENINGS IN CMU WALLS IN ACCORDANCE WITH TYPICAL CMU LINTEL SCHEDULE. 7. UNLESS OTHERWISE SHOWN, PROVIDE SOLID MASONRY BLOCK COURSES, CONSISTING OF SOLID BLOCKS
- FOLLOWING SCHEDULE a. ONE COURSE UNDER OPEN WEB STEEL JOISTS. b. THREE COURSES UNDER LONGSPAN STEEL JOISTS (2' 0" EACH SIDE OF JOIST).
- c. THREE COURSES UNDER STEEL BEAMS AND COLUMNS (2' 0" EACH SIDE OF MEMBER). 8. ALL EXPOSED MORTAR JOINTS SHALL BE TOOLED.
- WALL IS PERMANENTLY BRACED BY THE ROOF OR FLOOR. 10. PROTECT MASONRY WORK FROM DAMAGE DUE TO OTHER WORK AND THE WEATHER AS RECOMMENDED BY NCMA. ALL UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS, 3/8" THICK. LAY IN FULL RUNNING
- BOND UNLESS INDICATED OTHERWISE. 11. PLACE HORIZONTAL REINFORCING ON FULL MORTAR BED AT 16" OC MIN OR AS INDICATED ON
- CORES AND PROPERLY LOCATED AS INDICATED. SPLICES SHALL BE MINIMUM 36 X BAR DIAMETER. 12. USE LOW-LIFT GROUTING TECHNIQUES TO FILL CORES, UNLESS HIGH-LIFT GROUTING (VERTICAL PLACEMENT >4'0") IS APPROVED BY THE OWNER'S REPRESENTATIVE IN WRITING.
- 13. PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS OTHERWISE INDICTED. DOWELS MUST BE PLACED AND SECURED PRIOR TO CONCRETE PLACEMENT ("WET-STICKING" REINFORCING NOT PERMITED).

#### **STRUCTURAL STEEL NOTES:**

- 2. MATERIALS:
- a. ANGLES, BARS AND PLATES: ASTM A36. b. HOLLOW STRUCTRUAL SECTIONS "HSS": ASTM A500, GRADE C. c. PIPE: SCHEDULE 40 CONFORMING TO ASTM A53, GRADE B. U.N.O. d. HIGH STRENGTH BOLTS: ASTM A 325. e. WELDS: E70XX ELECTRODES.
- f. WIDE FLANGE BEAMS, GIRDERS AND COLUMNS: ASTM A992. 3. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.
- 4. ALL STRUCTURAL STEEL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED UNLESS SHOWN OTHERWISE.
- ALL BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE. SLIP CRITICAL BOLTS SHALL BE USED AT ALL MOMENT CONNECTIONS.
- 6. BOLTS SHALL BE <sup>3</sup>/<sub>4</sub> INCH DIAMETER, TYPE A325N, UNLESS OTHERWISE INDICATED. FOR DELEGATED DESIGN DESIGN ENGINEER (ASTM A325N, 3/4 INCH DIAMETER, MINIMUM).
- 7. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE. SWAGED ANCHOR BOLTS AND ANCHOR BOLTS WITH HOOKED END ANCHORAGE ARE NOT ALLOWED.
- 8. WELDING ELECTRODES SHALL CONFORM TO REQUIREMENTS SHOWN IN TABLE 3.2 OF AWS D1.1:2015, AND SHALL BE A MINIMUM IN ACCORDANCE WITH TABLE 5.7 OF AWS D1.1:2015.
- HOLES, ETC., SHALL BE MADE IN THE SHOP AND SHALL BE SHOWN ON THE SHOP DRAWINGS. MAKING HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED WITHOUT SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE. 10. STRUCTURAL STEEL SHALL BE PROTECTED WITH SPRAYED FIRE PROTECTION AS INDICATED. SEE
- TO RECEIVE SPRAYED FIRE PROOFING MATERAL SHALL NOT BE PRIMED OR PAINTED. 11. COMPOSITE SLABS SHALL BE PLACED TO A MINIMUM OF THE THICKNESS INDICATED AND SHALL BE SCREEDED LEVEL.

#### **STEEL DECK NOTES:**

- DFTAIL DO NOT EXCEED SDI PUBLISHED CONSTRUCTION LOAD CRITERIA.
- 3. DESIGN FLOOR DECK IN ACCORDANCE WITH THE FOLLOWING: a. YEILD STRENGTH, Fy = 50 KSI b. MINIMUM SECTION MODULUS, Sp: 0.224 CUBIC INCHES c. MINIMUM SECTION MODULUS, Sn: 0.229 CUBIC INCHES d. MINIMUM MOMENT OF INERTIA, In: 0.217 INCHES^4
- e. MINIMUM MOMENT OF INERTIA, Ip: 0.197 INCHES^4 f. DEPTH: AS INDICATED 4. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, INSERTS, ETC., WITH

#### POST INSTALLED ANCHOR NOTES:

- DESIGN. INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. EXPANSION ANCHORS: KWIK BOLT TZ2 SLEEVE ANCHORS: HLC SLEEVE ANCHOR ADHESIVE ANCHORS: HIT HY-200
- SCREEN TUBE ANCHORS:HIT HY-270
- DISTANCES AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
- AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS.
- BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS.
- ANCHOR INSTALLER PER ACI 318 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318 D.9.2.4.

#### METAL BUILDING SYSTEMS NOTES:

- EDITION OF THE FOLLOWING: EDITION)
- B. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND STEEL DESIGN GUIDE SERIES 3: SERVICABILITY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS", UNO.
- MEMBERS" (LATEST EDITION) D. AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE STEEL AWS D1.1/D1.1M" 2. DEFORMATIONS OF THE PRE-ENGINEERED BUILDING (INCLUDING BUT NOT LIMITED TO LATERAL DRIFT
- AND AS FOLLOWS: A. DRIFT OF MAIN FRAMES AT EAVE HEIGHT, UNO: H/100
- C. HORIZONTAL DEFLECTION OF GIRTS SUPPORTING METAL SIDING: L/120 D. VERITCAL DEFLECTION OF MAIN FRAME: L/240 (LIVE) & L/180 (TOTAL E. VERITCAL DEFLECTION OF PURLINS: L/240 (LIVE) & L/180 (TOTAL) F. LATERAL MOVEMENT OF ELEMENTS SUPPORTING DRYWALL PARTITIONS (H=PARTITION HT) H/500 G. HORIZONTAL DEFLECTION OF GIRTS SUPPORTING MASONRY WALLS: L/600
- 3. WIND AND SEISMIC FORCES USED FOR THE COMPUTATION OF MEMBER STRESSES ARE TO BE BASED ON THE LATERAL LOAD DESIGN CRITERIA LISTED IN THE DESIGN CRITERIA ON SHEET S-002. 4. CONTRACTOR IS TO ENGAGE AN EXPERIENCED INSTALLER TO ERECT THE PRE-ENGINEERED METAL BUILDING
- AND WHO IS CERTIFIED IN WRITING BY THE METAL BUILDING SYSTEM MANUFACTURER AS QUALIFIED FOR THE ERECTION OF THE MANUFACTURER'S PRODUCTS.
- WELD AND FIELD BOLT CONNECTIONS. 6. EXERCISE CARE IN DELIVERING, UNLOADING, STORING AND ERECTING BUILDING MEMBERS, WALL AND
- AND SURFACE DAMAGE.

1. MASONRY WORK SHALL CONFORM TO THE LATEST EDITIONS OF ACI 530 AND 530.1.

TYPE S

2000 PSI

5. REINFORCING BARS IN MASONRY SHALL BE FULLY GROUTED FOR THEIR ENTIRE LENGTH AND SHALL BE LAP SPLICED 48 BAR DIAMETERS, UNO. VERTICAL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.

OR GROUT FILLED BLOCKS FOR BEARING UNDER STRUCTURAL MEMBERS IN ACCORDANCE WITH THE

9. CMU WALLS SHALL RECEIVE TEMPORARY BRACING, TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL

DRAWINGS. VERTICAL REINFORCING IN MASONRY WHERE SHOWN SHALL BE PLACED IN GROUT FILLED

1. STRUCTURAL STEEL WORK INCLUDES ALL STRUCTURAL STEEL TO BE FURNISHED AND ERECTED, BEAMS, COLUMNS, CHANNELS, ANGLES, JOISTS, LINTELS, BEARING PLATES, ETC., AS INDICATED ON THE DRAWINGS.

CONNECTIONS, BOLT SIZE, GRADE AND TYPE SHALL BE AS SPECIFIED BY THE DELEGATED CONNECTIONS

FILLER METAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 70 KSI. WHERE WELD SIZE IS NOT GIVEN WELD SIZE WHERE THE WORK OF OTHER TRADES REQUIRES CUTS, HOLES, ETC., IN STRUCTURAL STEEL MEMBERS, CUTS

ARCHITECTURAL DRAWINGS FOR FIREPROOFING DETAILS AND UL ASSEMBLY NUMBERS. STRUCTURAL STEEL

1. FLOOR DECK CONNECTIONS: IN ACCORDANCE WITH TYPICAL COMPOSITE FLOOR DECK ATTACHMENT 2. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER THREE SPANS MINIMUM, AND SHALL BEAR AT LEAST 1 1/2 INCHES MINIMUM ON STEEL SUPPORTS OR MORE AS REQUIRED BY DECK MANUFACTURER. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED, OR FURNISH HIGHER GAGE DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS. CONTRACTOR SHALL SUBMIT ALTERNATE FOR APPROVAL. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION LOADS ON STEEL DECK

SHOP DRAWINGS OF THE EQUIPMENT TO BE INSTALLED. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF PIPE SLEEVES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF OPENINGS IN ROOF.

1. POST INSTALLED ANCHORS HAVE BEEN DESIGNED WITH HILTI ANCHORS (NOTED BELOW) AS THE BASIS OF

CONTRACTOR MAY PROVIDE EQUIVALENT ANCHORS WITH SIZE AND FINISH AS NOTED AND EQUIVALENT SHEAR AND TENSION CAPACITIES AFTER MODIFICATION DUE TO EMBEDMENT, SPACING AND EDGE ALL ADHESIVE ANCHORS FOR REINFORCING SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 4. DESIGN ADHESIVE BOND STRENGTH FOR ADHESIVE ANCHORS IN CONCRETE HAS BEEN BASED ON ACI 355.4, TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE

DESIGN, FABRICATION AND ERECTION OF THE PRE-ENGINEERED METAL BUILDING (PEMB) SYSTEM SHALL BE SUFFICIENT TO WITHSTAND LOADS FROM THERMAL, WIND, GRAVITY, STRUCTURAL MOVEMENT AND SEISMIC ACTION WITHOUT EXCEEDING ALLOWABLE STRESSES AND SHALL BE IN ACCORDANCE WITH THE LATEST

A. METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) "METAL BUILDING SYSTEM MANUAL" (LATEST

C. IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL

RACKING OF FRAMES, AND HORIZONTAL AND OR VERTICAL DEFLECTION OF STRUCTURAL ELEMENTS, CLADDING, OR OTHER SUPPORTED ELEMENTS), IS TO BE LIMITED BY THE RECOMMENDATIONS SET FORTH IN AISC'S STEEL DESIGN GUIDE SERIES 3 "SERVICABILITY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS"

B. DRIFT OF MAIN FRAMES WITH MASONRY/CONCRETE EXTERIOR WALLS: H/240

WHO IS EXPERIENCED IN THE ERECTION OF METAL BUILDINGS SIMILAR TO THAT REQUIRED FOR THIS PROJECT

5. FABRICATE FRAMING COMPONENTS IN THE SHOP TO THE GREATEST EXTENT POSSIBLE. IN GENERAL, SHOP

ROOF COVERING PANELS AND OTHER BUILDING COMPONENTS TO PREVENT BENDING, WARPING, TWISTING

7. ERECT FRAMING TRUE TO LINE, LEVEL AND PLUMB. LEVEL BASE PLATES TO A TRUE PLANE WITH FULL BEARING TO SUPPORTING STRUCTURE: USE A NON-SHRINKING GROUT TO OBTAIN UNIFORM BEARING AND TO

MAINTAIN LEVEL BASE LINE ELEVATION. 8. PROVIDE LATERAL LOAD RESISTING SYSTEMS AS REQUIRED TO RESIST THE INDICATED WIND AND SEISMIC LOADS IN ROOF AND SIDE WALLS. WHERE OVERHEAD DOORS INTERFERE WITH DIAGANOL BRACING, PROVIDE STRUCTURAL WIND FRAMES. PROVIDE SAG RODS AS REQUIRED TO MAINTAIN VERTICAL ALLIGNEMENT OF WALL GIRTS. REFERENCE THE ARCHITECTURAL AND STRUCTURAL PLAN DRAWINGS FOR PERIMETER BRACING AND FRAME LOCATIONS.

9. PROVIDE FRAMED DOOR AND WINDOW OPENINGS OF PROPER DESIGN AND SIZE TO ACCOMMODATE FINISHED UNITS AND TO TRASMIT ALL LOADS TO THE BUILDING STRUCTURE. 10. THE FOUNDATION AND ANCHOR ROD DESIGN ON THESE CONTRACT DRAWINGS IS PRELIMINARY AND BASED UPON ASSUMED COLUMNBASE REACTIONS CALCULATED BY A STRUCTURAL ENGINEER. THESE REACTIONS ARE INDICATED IN 'PEMB COLUMN BASE REACTIONS' SCHEDULE ON SHEET S-604. UPON FINAL BUILDING DESIGN, THE ACTUAL COLUMN BASE REACTIONS ARE TO BE COMPARED TO THE PRELIMINARY FOUNDATION AND ANCHOR ROD DESIGN PROVIDED IS VOID AND A REGISTERED PROFESSIONAL ENGINEER MUST BE EMPLOYED BY THE GENERAL CONTRACTOR TO COMPLETE A FOUNDATION DESIGN BASED UPON

THE ACTUAL REACTIONS. A. COLUMN BASES ARE TO BE PINNED. FIXED BASES ARE NOT PERMITTED. 11. DESIGN THE PRE-ENGINEERED METAL BUILDING TO PROVIDE LATERAL SUPPORT FOR THE TOP OF ALL MASONRY WALLS. LATERAL SUPPORT SHALL BE IN THE FORM OF A GIRT, SPANDREL BEAM OR OTHER APPROVED MEANS. THE TOP OF THE MASONRY WALLS SHALL BE BOLTED TO THE LATERAL SUPPORT. THE LATERAL SUPPOR SHALL BE CLIPPED TO THE MAIN FRAME COLUMNS WITH VERTICALLY SLOTTED CONNECTIONS.

12. CONTRACTORS TO COORDINATE WITH THE PEMB MANUFACTURER AND SUBCONTRACTORS TO PROVIDE SUPPORT FOR ALL SUSPENDED EQUIPMENT, PIPING, DUCTWORK AND UTILITIES IDENTIFIED ON THE DRAWINGS OR OTHERWISE NOTED OR REQUIRED.

#### SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS

OWNER, OR ARCHITECT/STRUCTURAL ENGINEER OF RECORD ACTING AS THE OWNER'S AGENT, SHALL DIRECTLY EMPLOY AND PAY FOR SERVICES OF THE SPECIAL INSPECTORS TO PERFORM REQUIRED SPECIAL

INSPECTIONS 3. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE.

CONCRETE REINF SPLICE & DEVELOPMENT LENGTHS SCHEDULE

	UNCKEI		L JLTI				I LENGI		DULE
		L	AP SPLIC	CE LENG	STHS (IN	.)	DEVELOF	MENT LEN	gths (in.)
	BAR SIZE		<b>ISION LA</b>	1		4			
		TOP	BARS	OTH	OTHER		TENSION	COMP.	HOOKED
	CLASS	А	В	А	В				
	#3	19	24	15	19	12		8	8
	#4	25	33	19	25	15		10	10
	#5	31	41	24	31	19	S A LICE	12	12
	#6	37	49	29	37	23	P SP	15	15
	#7	54	71	42	54	27	SAME AS CLASS A TENSION LAP SPLICE	17	17
psi	#8	62	81	48	62	30	ME	19	19
4,000 psi	#9	70	91	54	70	34	SA	22	22
11	#10	79	102	61	79	39		25	25
fc_	#11	87	113	67	87	43		27	27
		L	AP SPLIC	CE LENG	THS (IN	.)	DEVELOF	MENT LENG	Gths (in.)
	BAR SIZE	TEN	<b>ISION LA</b>	AP LENGTH					
		TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
	CLASS	А	В	А	В				
	#3	18	23	14	18	12		8	7
	#4	24	31	18	24	15		9	9
	#5	30	38	23	30	19	S A LICI	12	12
	#6	35	46	27	35	23	LAS P SP	14	14
	#7	51	67	40	51	27	AS C	16	16
psi	#8	59	76	45	59	30	ME	18	18
4,500 psi	#9	66	86	51	66	34	SAME AS CLASS A TENSION LAP SPLICE	21	21
П	#10	74	96	57	74	39		23	23
ĿŪ	#11	82	107	64	82	43		26	26

1. TOP BARS ARE HORIZONTAL BARS, PLACED SO THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW THE BAR.

2. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED. 3. LENGTHS IN THE TABLE ARE FOR UNCOATED OR ZINC-COATED (GALVANIZED) BARS

4. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2Db AND CLEAR COVER NOT LESS THAN Db.

5. VALUES IN TABLE ARE FOR NORMAL WEIGHT CONCRETE.

<u>DESIGN CRITERIA</u>

6. SPACING REQUIREMENTS AND END ANCHORAGE SHALL BE SPACED PER THE REQUIREMENTS OF ACI-318.

#### **STRUCTURAL DESIGN CRITERIA**

BUILDING DATA:		
LOCATION		NEW HAMPTON, NY
BUILDING OCCUPANCY RISK CATEGORY		
APPLICABLE BUILDING CODE		2020 BUILDING CODE OF NEW YORK STATE (IBC 2018)
GEOTECHNICAL INFORMATION:		
ALLOWABLE BEARING PRESSURE		2,000 PSF
ROOF DEAD LOADING:		
ROOF		BY PEMB MANUF
COLLATERAL	CL	10 PSF
FLOOR LIVE LOADING:		
MEZZANINE	LL1	125 PSF
<u>ROOF LIVE LOADING:</u>		
ROOF	LLr	20 PSF
SNOW LOADING:		
SNOW IMPORTANCE FACTOR	ls	1.2
GROUND SNOW LOAD	Pg	40 PSF
SNOW EXPOSURE FACTOR		1.0
ROOF THERMAL FACTOR	Ct	1.1
FLAT ROOF SNOW LOAD	Pf	37 PSF
		BY PEMB MANUF
	-	BY PEMB MANUF
DRIFT WIDTH	w	BY PEMB MANUF
WIND LOADING (MAIN WIND FORCE RESISTIN ANALYSIS PROCEDURE		<u>'STEM):</u> DIRECTIONAL PROCEDURE
ULTIMATE DESIGN WIND SPEED (3- SECOND		
GUST)	¥ OII	125 11011
NOMINAL DESIGN WIND SPEED (3-SECOND GUST)	Vas d	97 mph
EXPOSURE CATEGORY	0.	В
ENCLOSURE CLASSIFICATION		ENCLOSED
INTERNAL PRESSURE COEFFICIENT	GC pi	+0.18/-0.18
WIND LOADING (COMPONENTS AND CLADE	DING	
COMPONENTS AND CLADDING WIND PRESSURE:		BY PEMB MANUF
<u>SEISMIC LOADING:</u>		
MAPPED SHORT PERIOD SPECTRAL	Ss	0.215g
RESPONSE ACELERATION MAPPED 1-SEC PERIOD SPECTRAL	S1	0.055g
	C da	-
SHORT PERIOD DESIGN SPECTRAL RESPONSE ACELERATION	Sas	0.229g
1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACELERATION	Sd1	0.087g
SOIL SITE CLASS		D
SEISMIC DESIGN CATEGORY		С
SEISMIC FORCE RESISTING SYSTEM		BY PEMB MANUF
RESPONSE MODIFICATION FACTOR	R	BY PEMB MANUF
DEFLECTION AMPLIFICATION FACTOR	Cd	BY PEMB MANUF
	Ωο	BY PEMB MANUF
SEISMIC RESPONSE COEFFICIENT ANALYSIS PROCEDURE	Cs	BY PEMB MANUF BY PEMB MANUF
DESIGN BASE SHEAR	V	BY PEMB MANUF
DESIGN DASE STEAK	۷	

	STRUCTUR
FO	UNDATION WALLS
FO	otings, interiof
NC	DTES:
1. 2. 3. 4. 5. 6.	PREPARE DESIGN TRIAL BATCH OR CONCRETE SHAI MAXIMUM NOM SEE REINFORCEE ENSURE ENTRAPH DO NOT HARD-T ARCHITECTURAL WITH AIR-ENTRA

	STF
CAST AGAINST E	EART
EXPOSED TO FARTH OR	#5
WEATHER	#6
NOT EXPOSED TO EARTH OR WEATHER	SLABS &
VILAINER	BE,

SLAB-ON-G	RAD
MARK	
SOG1	SL/
SOG2	SL/

FOUNDATIO	N W
MARK	
CW20	СС
CW26	СС

WALL FOOT	ING
MARK	FC
MAKK	1
WF24	

	\
WF24	
WF30	
WF36	

FOOTING SCHEDULE			
MARK	MADY	FOOTIN	1
	MARK	LENGTH	
	F6.0	6' - 0''	
	F7.0	7' - 0''	

F12.0

	PIER SC	HEDULE
Ī	TYPE	PIER
	TIPE	DEPTH
	P1	2' - 0''
	P2	2' - 0''

P1	2' - 0''
P2	2' - 0''
P3	2' - 0''
P4	2' - 0''
P5	2' - 4''

	ROOF DECK SCHEDULE					
MARK TYPE		GAUGE	ATTACHMENT PATTERN		REMARKS	
MARK		GAUGE	SUPPORT PATTERN	SIDELAP PATTERN	KEIVIAKNJ	
	RD1	1 1/2" TYPE B GALV METAL ROOF DECK	20	#12 TEK SCREWS @ 36/9 PATTERN	#10 TEK SCREWS @ 12" OC	G90 FINISH

<u>MASONRY</u>	WAL

MW8	ا /BE

MARK

<u>ELEVA</u>	TED	FLOO
MARK		

FD1	4 1/2" NW C STEEL

## CONCRETE STRENGTH AND MATERIAL SCHEDULE

RAL ELEMENT	MIN COMPRESSIVE STRENGTH AT 28 DAYS (PSI)	MAX WATER/CEMENT RATIO	AIR CONTENT (%)
S, EXTERIOR SOG, PIERS	4,500	0.45	6 +/- 1.5
R SOG, SLAB-ON-DECK	4,000	0.50	N/A

IN MIXES FOR EACH TYPE, AND STRENGTH OF CONCRETE BY EITHER LABORATORY R FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318. ALL BE READY MIXED PER ASTM C94. JOBSITE MIXING SHALL NOT BE PERMITTED. MINAL AGGREGATE SIZE IS 3/4". D CONCRETE NOTES ON S-001 FOR ADDIIONAL REQUIREMENTS.

PPED AIR IN SLAB CONCRETE TO BE TROWEL FINISHED DOES NOT EXCEED 3%. -TROWEL SLABS THAT ARE TO BE AIR-ENTRAINED. COORDINATE SLAB FINISH WITH AND/OR OWNER REQUIREMENTS. CARE SHALL BE TAKEN FOR FINISHING SLABS

### REINFORCED CONCRETE COVER SCHEDULE

RUC	TURAL ELEMENT	MIN COVER (IN)
ТН		3"
5 BARS AND SMALLER, WWF		1-1/2"
6 BARS AND LARGER		2"
WALLS	#11 BARS AND SMALLER, WWF	3/4"
M	#14 BARS AND LARGER	1-1/2"
AMS AND COLUMNS		1-1/2"

## E SCHEDUL

TYPE	THICKNESS	SLAB REINFORCING	RE₩
AB ON GRADE	8"	#4 @ 12" OC, EW	
AB ON GRADE	6"	WWF 6x6-W2.9xW2.9	

#### VALL SCHEDULE

TYPE	THICKNESS	WALL RE	REMARKS		
		HORIZONTAL	VERTICAL	KE/VIAKK3	
ONC FOUNDATION WALL	1' - 8''	#5 @ 12" OC, EF	#5 BARS @ 12" OC, EF	-	
ONC FOUNDATION WALL	2' - 2"	#5 @ 12'' OC, EF	#5 BARS @ 12" OC, EF	-	

#### SCHEDULE

DOTING DIMENSIONS		FOOTING REINFORCING		REMARKS
WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE	KE/VIAKKS
2' - 0''	1' - 0''	(3) #5 CONT	#5 @ 12" OC	-
2' - 6''	1' - 0''	(4) #5 CONT	#5 @ 12" OC	-
3' - 0''	1' - 0''	(4) #5 CONT	#5 @ 12" OC	-

FOOTING DIMENSIONS BOTTOM REINFORCING		NFORCING	TOP	REMARKS		
√GTH	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE	REINFORCING	KEIMAKKS
- 0''	6' - 0''	1' - 0''	(7) #5 BARS	(7) #5 BARS	-	-
- 0''	7' - 0''	1' - 0''	(8) #5 BARS	(8) #5 BARS	(8) #%, EW	-
- 0''	8' - 0''	1' - 0''	(9) #5 BARS	(9) #5 BARS	(9) #5, EW	-
- 0''	9' - 0''	1' - 0''	(10) #5 BARS	(10) #5 BARS	(10) #5, EW	-
2' - 0''	12' - 0''	1' - 0''	(13) #6 BARS	(13) #6 BARS	(13) #6, EW	-

DIMENSIONS		PIER REIN	FORCING	REMARKS
1	WIDTH	VERTICAL	TIES	KEMARKS
	2' - 6''	(12) #7	#4 @ 12" OC	SEE DETAIL FOR ADDL TENSION AND SHEAR REINF
	2' - 6''	(12) #7	#4 @ 12" OC	SEE DETAIL FOR ADDL TENSION REINF
	2' - 6''	(12) #7	#4 @ 12" OC	-
	2' - 6''	(12) #7	#4 @ 12" OC	SEE DETAIL FOR ADDL TENSION AND SHEAR REINF
	3' - 4''	(14) #7	#4 @ 12" OC	SEE DETAIL FOR ADDL TENSION REINF

## SCHEDUL

TYPF	THICKNESS		WALL REINFOR	RCING	REMARKS
IIFE	ITICKINESS	HORIZONTAL	VERTICAL	bond beam reinf and spacing	KEIMAKKS
MASONRY EARING WALL	7 5/8"	9 GAUGE LADDER TYPE REINF @ 16'' OC	#5 BARS @ 32'' OC	(1) #5 BAR @ 10'-0" OC MAX	-

#### R SLAB SCHEDULE

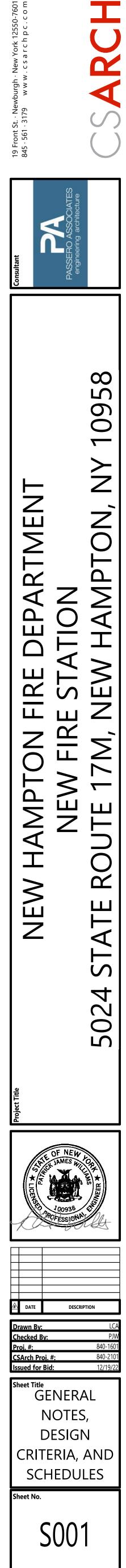
TYPE	GAUGE	SLAB REINFORCEMENT	ATTACHN	IENT PATTERN	REMARKS
	GAUGE		SUPPORT PATTERN	SIDELAP PATTERN	KEIVIAKKS
/ CONCRETE ON 1 1/2" COMPOSITE EL DECK, TOTAL THICKNESS - 6"	20	WWF 6x6-W2.1xW2.1	5/8" DIA PUDDLE WELDS AT 36/4 PATTERN	#10 TEK SCREWS @ 12" OC	G90 FINISH

#### AMERICAN CONCRETE INSTITUTE ADDL ADDITIONAL ABOVE FINISH FLOOR AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALTERNATE APPROX APPROXIMATELY ARCH ARCHITECT/ARCHITECTURAL ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDING SOCIETY BOARD BASE FLOOD ELEVATION BLOCKING BLKG BEAMS BOTTOM OF BOTTOM BOT BEARING BETWEEN BTWN CENTER TO CENTER COLD FORMED METAL FRAMING CFMF CAST-IN-PLACE CONTROL JOINT COMPLETE JOINT PENETRATION CENTER LINE CLEAR(ANCE) CONCRETE MASONRY UNIT CMU CONSTRUCTION JOINT COL COLUMN CONC CONCRETE CONN CONNECT(ED)(ION) CONST CONSTRUCTION CONT CONTINUOUS COORD COORDINATE CENT(ER)(ERED)(TRAL) DEGREE(S) DEMO(LISH)(LITION) DEMO DESIGN FLOOD ELEVATION DIAMETER DIAGONAL DIAG DIFFEREN(CE)(TIAL DIMENSION DIVI(DE)(DED)(DER)(SION) DEAD LOAD DOWN DFTAIL DRAWING(S) DWG(S) DOWEL(REBAR) EXISTNG EACH EACH FACE EXPANSION JOINT ELEVATION **FMBFD** FMBFDMFNT EDGE OF DECK EDGE OF SLAB EQUAL FACH WAY EXIST EXISTING EXPAN(D)(SION EXTERIOR FLOOR DRAIN FINISHED FLOOR ELEVATION FOUNDATION FNDN FIREPROOF(ING) FRAMING FRMC FAR SIDE FOOTING STEF FOOTING GAUGE GALVANIZED GALV GENERAL CONTRACTOR/CONSRTUCTION MANAGER HEAVY DUTY HOOK HORIZONTAL HORIZ HIGH POINT HIGH STRENGTH HOLLOW STRUCTURAL SECTION (STRUC HEIGHT INSIDE FACE INFORMATION INFO

STRUCTURAL ABBREVIATION LEGEND

	KIP (1000 POUNDS)
LF	KIPS PER LINEAR FOOT
SI	KIPS PER SQUARE INCH
/LBS	POUNDS
	LINEAR FOOT,FEET
	LIVE LOAD
H	LONG LEG HORIZONTAL
V	LONG LEG VERTICAL
C	LOCATION(S)
	LOW POINT
′L	LEVEL
V	LIGHTWEIGHT
ANUF	MANUFACTURER
ATL	MATERIAL
AX	MAXIMUM
ECH	MECHANICAL
EZZ	MEZZANINE
N	MINIMUM
SC	MISCELLANEOUS
ΓL	METAL
)	NEW
	NEAR SIDE
S	NOT TO SCALE
2	ON CENTER
)	OUTSIDE DIAMETER/DIMENSION
=	OUTSIDE FACE
PN'G	OPENING(S)
	OPPOSITE
•	PIER (SEE SCHEDULE)
C	
C CF	PRECAST CONCRETE POUNDS PER CUBIC FOOT
MB	PRE-ENGINEERED METAL BUILDING
RF	PERFORATE(D)
RIM	PERIMETER
	PLATE
F	POUNDS PER LINEAR FOOT
REFAB	PREFABRICATED
EFIN	PREFINISH(ED)
F	POUNDS PER SQUARE FOOT
	POUNDS PER SQUARE INCH
	POST TENSION (FD) (ING)
ΓY	QUANTITY
	RADIUS,RADII
2	REINFORCED CONCRETE
)	ROOF DRAIN
S EINF	REINFORCING, REINFORCEMENT
EQ('D)	REQUIRE(D)
(D) V	REVIS(E)(ED)(ION)
HED	SCHEDULE
)	STEEL DECK INSTITUTE
IT	SHEET
ITG	Sheathing
Ν	SIMILAR
	SNOW LOAD
)G	SLAB ON GRADE
A	SPACE OR SPACING
λ	SQUARE
Q(FT)	SQUARE FOOT/FEET
D	STANDARD
IFF	STIFFENER
L	STEEL
RUCT	
	STRUCTUR(E)(AL)
B	
E	
E	TOP OF DECK ELEVATION
MP	TEMPORARY
=	TOP OF FOOTING ELEVATION
RD	THREAD(ED)
=	TOP OF JOIST ELEVATION
	TOP OF LEDGE ELEVATION
١E	TOP OF MASONRY ELEVATION
)	TOP OF
S	TOP OF STEEL
G	TOPPING
G TD	TREATED
יי	
E	TOP OF SLAB ELEVATION
٧E	TOP OF WALL ELEVATION
Р	TYPICAL
٧O	UNLESS NOTED OTHERWISE
RT	VERTICAL
F	VERIFY IN FIELD
/	WITH
/0	WITHOUT
=	WIDE FLANGE
	WEIGHT
GHT	
ght HS P	WEIGHT WELDED HEADED STUD WORK POINT





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	EARTHWORK - REQUIREMENTS FOR SPECIAL	STEEL CONSTRUCTION - REQUIREMENTS F			
	AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR	REFERENCE STANDARD	IBC REFERENCE	AREAS OF INSPECTION & TESTING
	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE	TESTING PERIODIC	-	1705.6	1. FABRICATOR'S SHOP TESTING AND QUALITY CONTROL
	ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH	PERIODIC	_		PROGRAM: A. VERIFY FABRICATOR'S CERTIFICATION AND QUALITY
	AND HAVE REACHED PROPER MATERIAL. PERFORM CLASSIFICATION AND TESTING OF	PERIODIC	-		CONTROL PROGRAM. B. SPECIAL INSPECTIONS REQUIRED IN FABRICATOR'S SHOP
	COMPACTED FILL MATERIALS		_		FOR ELEMENTS IDENTIFIED BELOW.
	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	PERIODIC	_		<ol> <li>INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS PRIOR TO BOLTING:</li> <li>A. VERIFY MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR</li> </ol>
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC			FASTENER MATERIALS. B. FASTENERS MARKED IN ACCORDANCE WITH ASTM – REQUIREMENTS.
	CAST-IN-PLACE CONCRETE - REQUIREMENTS F	OR SPECIAL INSPEC			C. PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM
	AREAS OF INSPECTION & TESTING	INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE	SHEAR PLANE) D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL
	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING	PERIODIC	ACI 318 CH. 20, 25.2, 25.3,	1908.4	<ul> <li>E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF</li> </ul>
	TENDONS, AND VERIFY PLACEMENT.		26.6.1 - 26.6.3		SPECIFIED, MEET APPLICABLE REQUIREMENTS. F. PRE-INSTALLATION VERIFICATION AND TESTING BY
	REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN	PERIODIC	AWS D1.4		INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.
	ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	PERIODIC	ACI 318: 26.6.4	-	G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENERS.
	C. INSPECT ALL OTHER WELDS. INSPECT ANCHORS CAST IN CONCRETE	CONTINUOUS PERIODIC	ACI 318:17.8.2		3. INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE	TENODIC	//01010.17.0.2		A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED
	MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR	CONTINUOUS	ACI 318: 17.8.2.4	-	IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.
	UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.				<ul> <li>B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.</li> </ul>
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318:17.8.2 ACI 318: CH. 19,	1904.1, 1904.2,	C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.
6	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS	CONTINUOUS	26.4.3, 26.4.4 ASTM C172	1908.2, 1908.3	D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY
	FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		ASTM C31 ACI 318: 26.4, 26.12	1908.10	FROM THE POST RIGID POINT TOWARD THE FREE EDGES. 4. INSPECTION TASK FOR HIGH-STRENGTH BOLTS, NUTS AND
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8	WASHERS AFTER BOLTING: A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED
8.	PROPER APPLICATION TECHNIQUES. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9	CONNECTIONS.       5.       INSPECTION TASKS PRIOR TO WELDING:
	INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS	CONTINUOUS	ACI 318: 26.10	-	<ul> <li>A. WELDING PROCEDURE SPECIFICATIONS (WPSs) ARE AVAILABLE</li> <li>B. MANUFACTURER CERTIFICATIONS FOR WELDING</li> </ul>
11.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND	PERIODIC	ACI 318: CH. 26.8 ACI 318: 26.11.2	-	CONSUMABLES ARE AVAILABLE – C. MATERIAL IDENTIFICATION (TYPE/GRADE) D. WELDER IDENTIFICATION SYSTEM F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)
12.	STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2 (b)		JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING & FACE, LEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)
	DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	EVEL C SPECIAL IN	SPECTION & TESTING		<ul> <li>BACKING TYPE AND FIT (IF APPLICABLE)</li> <li>G. CONFIGURATION AND FINISH OF ACCESS HOLE.</li> </ul>
	AREAS OF INSPECTION & TESTING	FREQUENCY OF	REFERENCE STANDARD	IBC REFERENCE	H. FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT)
1.	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	TESTING PERIODIC		1705.4	CLEANLINESS (CONDITION OF STEEL SURFACES) ALIGNMENT (TACK WELD QUALITY AND LOCATION)
2.	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE				6. INSPECTION TASKS DURING WELDING: A. USE OF QUALIFIED WELDERS
	FOLLOWING ITEMS ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PREFERENCE CROUT FOR RONDED TENDONS	PERIODIC			B. CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKING AND EXPOSURE
	PRESTRESSING GROUT FOR BONDED TENDONS. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS AND RESTRESSING TENDONS AND ANCHORAGES	PERIODIC	TMS 402 Sec. 6.1		C. ENVIRONMENTAL CONDITIONS INCLUDING WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE
	BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES. C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION	PERIODIC			D. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT
	OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS, AND ANCHORAGES.	CONTINUOUS	TMS 402 Sec. 6.1,		TRAVEL SPEED SELECTED WELDING MATERIALS
	E. GROUT SPACE PRIOR TO GROUTING		6.2.1, 6.2.6, 6.2.7		SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED
	F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.				INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH)
	<ul> <li>G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.</li> <li>H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER</li> </ul>	PERIODIC CONTINUOUS	TMS 402 Sec. 1.2.1(e), 6.1.4.3, 6.2.1		E. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS
	CONSTRUCTION. I. WELDING OF REINFORCEMENT.	CONTINUOUS	TMS 402 Sec. 8.1.6.7.2,		EACH PASS MEETS QUALITY REQUIREMENTS 7. INSPECTION TASKS AFTER WELDING: A. WELDS CLEANED.
	J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMP BELOW 40°F) OR	PERIODIC	9.3.3.4(c), 11.3.3.4(b)		B. SIZE, LENGTH, AND LOCATIONS OF WELDS C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION WELD/BASE-METAL FUSION
	HOT WEATHER (TEMP ABOVE 90°F) K. APPLICATION AND MEASUREMENT OF PRESTRESSING	CONTINUOUS			CRATER CROSS SECTION WELD PROFILES
	FORCE. L. PLACEMENT OF AAC MASONRY UNITS AND	CONTINUOUS			WELD SIZE UNDERCUT
	CONSTRUCTION OF THIN-BED MORTAR JOINTS. M. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	CONTINUOUS			POROSITY D. ARC STRIKES
	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	CONTINUOUS			E. K-AREA F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)
			I		G. REPAIR ACTIVITIES H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOIN
					OR MEMBER 8. VERIFY PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENT SUPPORTING STRUCTURAL STEEL FOR

ANCHORS. C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.

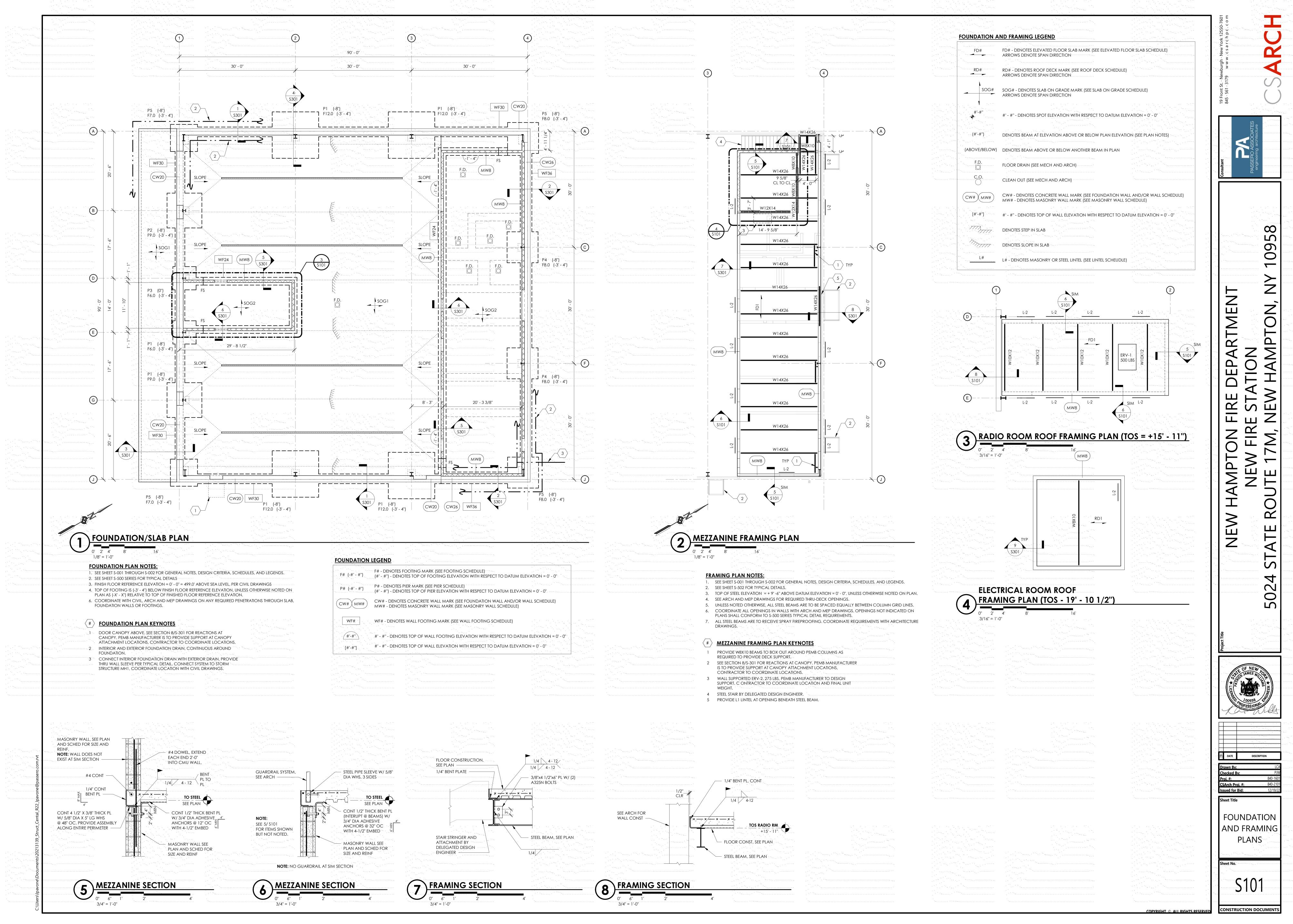
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STEEL CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING							
	AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR	REFERENCE STANDARD	IBC REFERENCE			
1.	FABRICATOR'S SHOP TESTING AND QUALITY CONTROL	TESTING	AISC PLANT	1705.2			
	PROGRAM: A. VERIFY FABRICATOR'S CERTIFICATION AND QUALITY	PERIODIC	CERTIFICATION PROGRAM				
	CONTROL PROGRAM. B. SPECIAL INSPECTIONS REQUIRED IN FABRICATOR'S SHOP FOR ELEMENTS IDENTIFIED BELOW.	NOT REQUIRED IF FABRICATOR IS AISC CERTIFIED					
2.	INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND		AISC 360, TABLE				
	WASHERS PRIOR TO BOLTING: A. VERIFY MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR	CONTINUOUS	N5.6-1				
	FASTENER MATERIALS. B. FASTENERS MARKED IN ACCORDANCE WITH ASTM	PERIODIC					
	REQUIREMENTS. C. PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM	PERIODIC					
	SHEAR PLANE) D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL. E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF	PERIODIC PERIODIC					
	SPECIFIED, MEET APPLICABLE REQUIREMENTS. F. PRE-INSTALLATION VERIFICATION AND TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED	PERIODIC					
	FOR FASTENER ASSEMBLIES AND METHODS USED. G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENERS.	PERIODIC					
3.	INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS DURING BOLTING:		AISC 360, TABLE N5.6-2				
	A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	PERIODIC	INJ.0-2				
	<ul> <li>B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.</li> </ul>	PERIODIC					
	C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	PERIODIC					
	<ul> <li>PREVENTED FROM ROTATING.</li> <li>D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE POST RIGID POINT TOWARD THE FREE EDGES.</li> </ul>	PERIODIC					
4.	INSPECTION TASK FOR HIGH-STRENGTH BOLTS, NUTS AND		AISC 360, TABLE				
	WASHERS AFTER BOLTING: A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	CONTINUOUS	N5.6-3				
5.	INSPECTION TASKS PRIOR TO WELDING: A. WELDING PROCEDURE SPECIFICATIONS (WPSs) ARE	CONTINUOUS	AISC 360, TABLE N5.4-1				
	AVAILABLE B. MANUFACTURER CERTIFICATIONS FOR WELDING	CONTINUOUS					
	CONSUMABLES ARE AVAILABLE C. MATERIAL IDENTIFICATION (TYPE/GRADE) D. WELDER IDENTIFICATION SYSTEM F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):	PERIODIC PERIODIC PERIODIC					
-	JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING & FACE, LEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)						
-	BACKING TYPE AND FIT (IF APPLICABLE) G. CONFIGURATION AND FINISH OF ACCESS HOLE. H. FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES)	PERIODIC PERIODIC					
-	ALIGNMENT (TACK WELD QUALITY AND LOCATION)						
6.	INSPECTION TASKS DURING WELDING: A. USE OF QUALIFIED WELDERS	PERIODIC	AISC 360, TABLE N5.4-2				
	B. CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKING AND EXPOSURE	PERIODIC					
	C. ENVIRONMENTAL CONDITIONS INCLUDING WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE	PERIODIC					
	D. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS	PERIODIC					
	SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MINI/MAX)						
	INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) E. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS	PERIODIC					
7.	INSPECTION TASKS AFTER WELDING: A. WELDS CLEANED.		AISC 360, TABLE N5.4-3				
	A. WELDS CLEANED. B. SIZE, LENGTH, AND LOCATIONS OF WELDS C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT	PERIODIC CONTINUOUS CONTINUOUS	143.4-3				
	POROSITY D. ARC STRIKES E. k-AREA	CONTINUOUS CONTINUOUS					
	F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	CONTINUOUS					
	G. REPAIR ACTIVITIES H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	CONTINUOUS CONTINUOUS					
8.	VERIFY PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENT SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR ROD OR EMBEDMENT ITEM AND THE EXTENT OR DEPTH OF THE EMBEDMENT INTO THE CONCRETE PRIOR TO PLACEMENT OF	PERIODIC	AISC 360, N5.7				
9.	CONCRETE. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS: A. DETAILS SUCH AS BRACING AND STIFFENERS. B. MEMBER LOCATIONS.	PERIODIC	AISC 360, N5.8				
10	<ul> <li>C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.</li> <li>INSPECT STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT:</li> <li>A. PLACEMENT AND INSTALLATION OF STEEL DECK.</li> <li>B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.</li> </ul>	PERIODIC	AISC 360, N6				

#### STATEMENT OF SPECIAL INSPECTIONS

OCATION		5024 STATE ROU	TE 17M, NEW HAMPTON, NY 10	1958		
DWNER		NEW HAMPTON FIRE DEPARTMENT				
ESIGN PROFESSIONAL	IN CHARGE	Patrick J. Williams, PE, SE				
f the applicable build oordinator and the ide ncompasses the follow ne Building Official and ne contractor for corre	ting code. It includes of lentity of other approvied wing disciplines: STRUC d the Registered Desig ection. If such discreption	a schedule of Special Inspection se ved agencies to be retained for cor CTURAL. The Special Inspection Coo gn Professional in Responsible Charg	ervices applicable to this project as we inducting these inspections and tests. To ordinator shall keep records of all insp ge (RDP). Discovered discrepancies sh appancies shall be brought to the attem	nspection and Structural Testing requirements ell as the name of the Special Inspection This Statement of Special Inspections ections and shall furnish inspection reports to nall be brought to the immediate attention of ntion of the Building Official and the RDP. The		
nterim reports shall be	submitted to the Build	ding Official and the RDP, monthly.				
			pecial Inspections, testing, and correct Jance of a Certificate of Use and Occ	ction of any discrepancies noted in the cupancy.		
lob site safety and me	ans and methods of c	construction are solely the responsib	ility of the contractor.			
n accordance with the	e applicable buildina	code, the Observations and Inspec	ctions listed in the Schedule of Specia	l Inspections are required.		
SCHEDULE OF	INSPECTION A	AND TESTING AGENCIE	<u></u>			
SPECIAL INSPECTI	ION AGENCIES	FIRM	ADDRESS	TELEPHONE No.		
Special Inspectio	on Coordinator	TBD	TBD	(###) ###-####		
Inspec	ctor	TBD	TBD	(###) ###-####		
Contractor or Subcontr	ractor whose work is to k being inspected. The	o be inspected or tested. An appro e agency shall also disclose to the l	ved agency shall be objective, comp	the applicable building code, and not by the betent and independent from the contractor sign professional in responsible charge possible		
		ORS RESPONSIBILITY				
	e applicable building	code, each contractor responsible	o for the construction of a main wind c	or seismic force-resisting system, designated		
eismic system or a wine of the building official of	nd or seismic force-resis and the owner or the o	sting component listed in the stater owner's authorized agent prior to th		all submit a written statement of responsibility stem or component. The contractor's		
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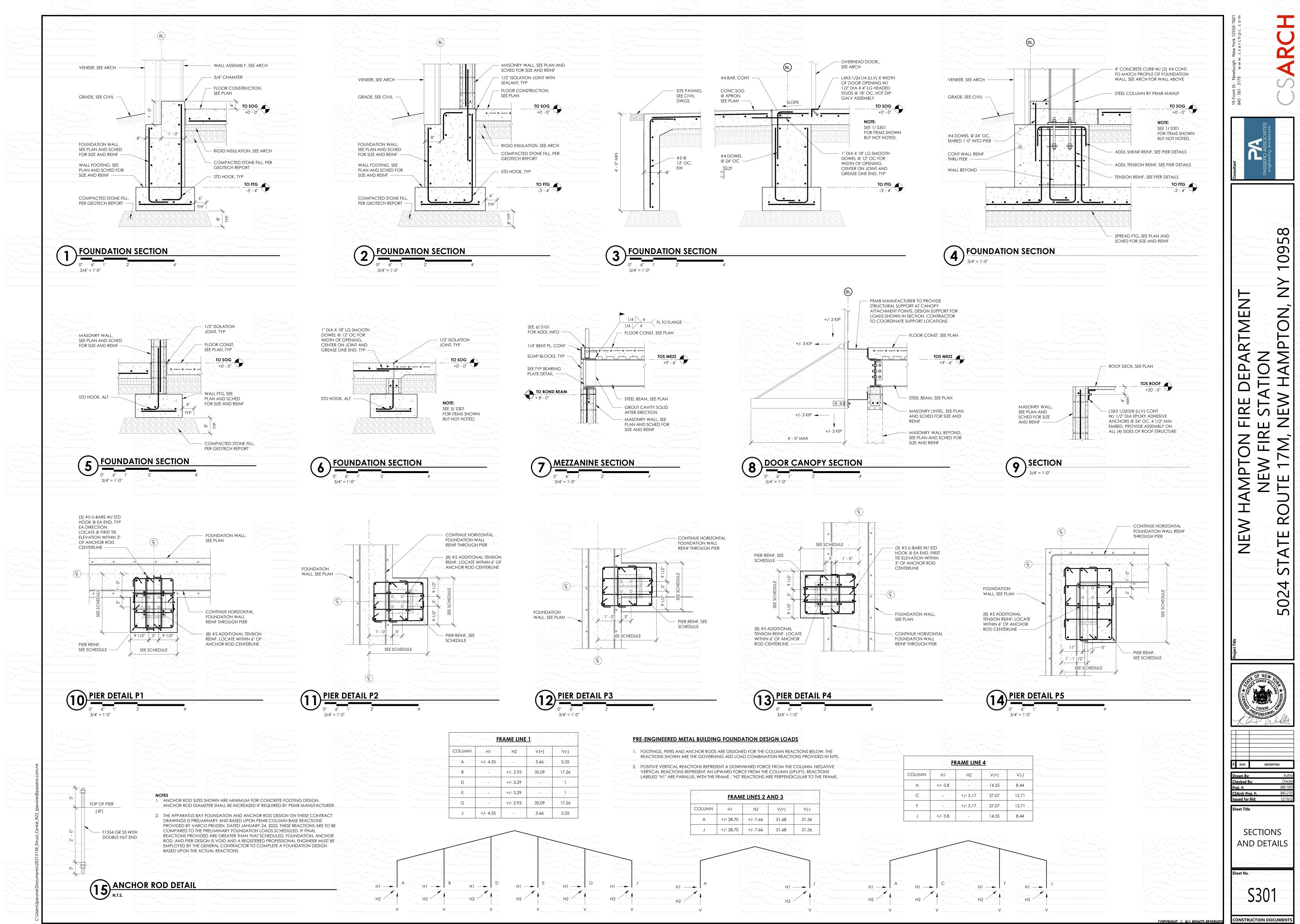


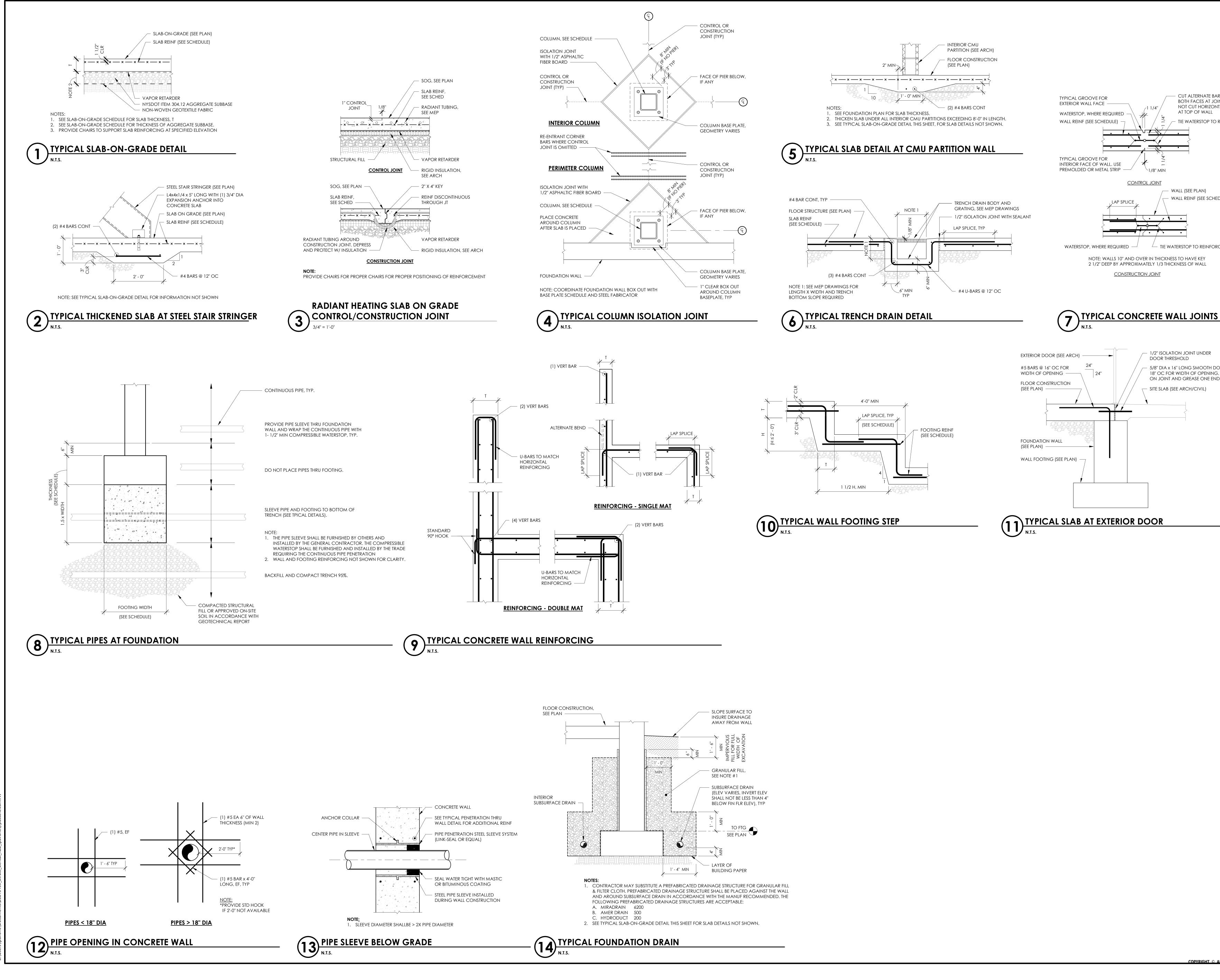
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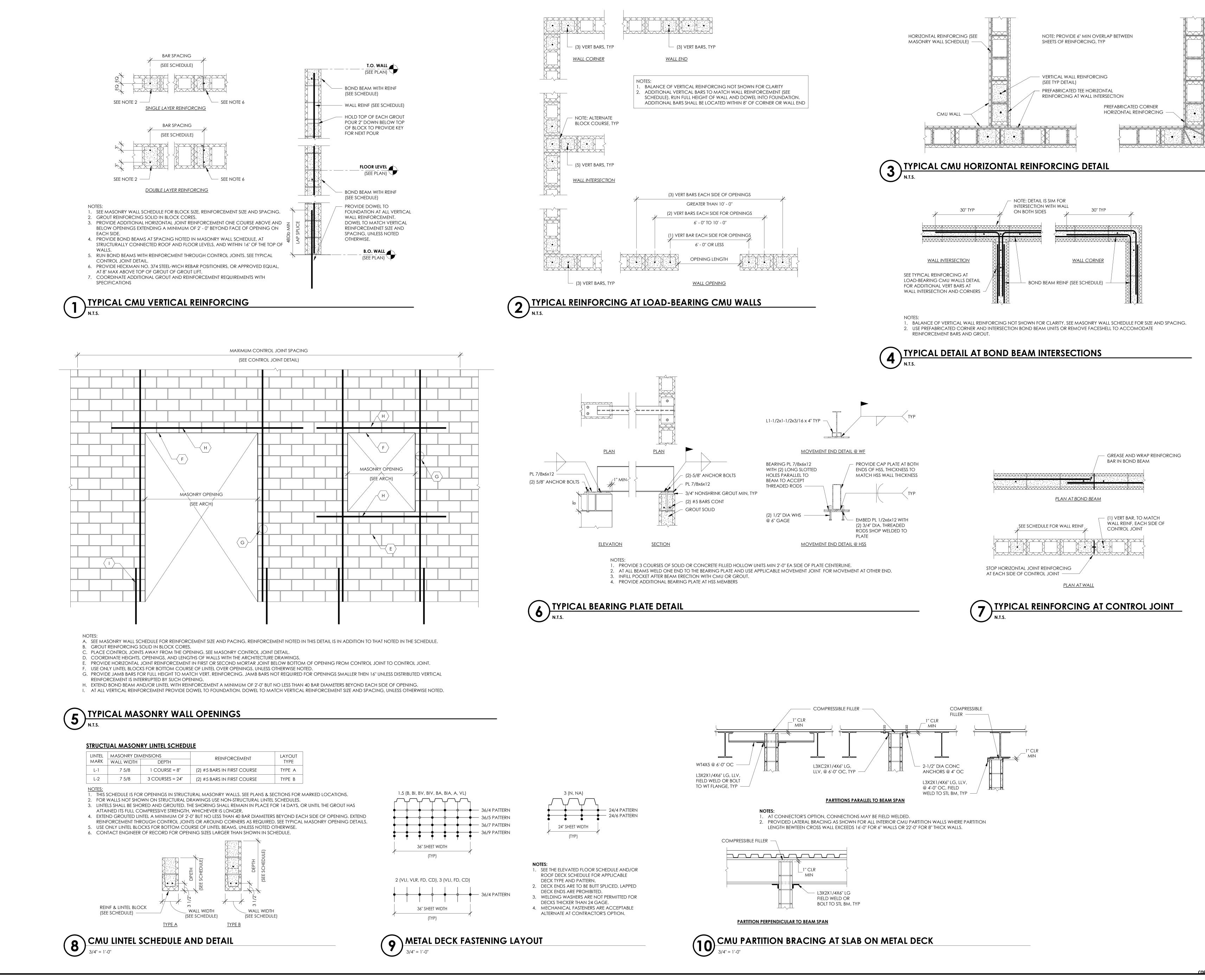


#### - CUT ALTERNATE BARS IN BOTH FACES AT JOINT. DO NOT CUT HORIZONTAL BARS AT TOP OF WALL - TIE WATERSTOP TO REINF

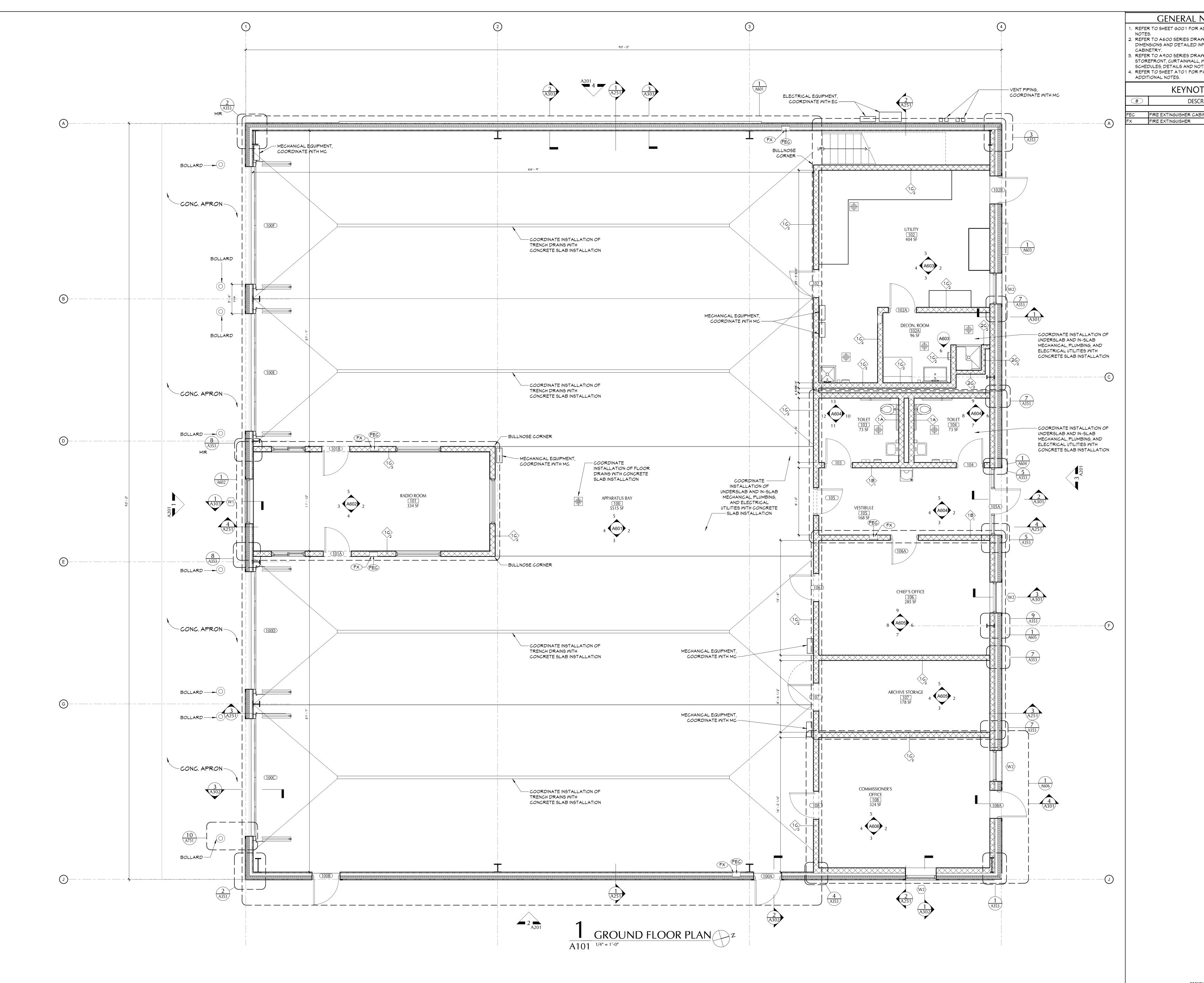
— WALL (SEE PLAN) - WALL REINF (SEE SCHEDULE)

1/2" ISOLATION JOINT UNDER 5/8" DIA x 16" LONG SMOOTH DOWEL @ 18" OC FOR WIDTH OF OPENING. CENTER ON JOINT AND GREASE ONE END, TYP







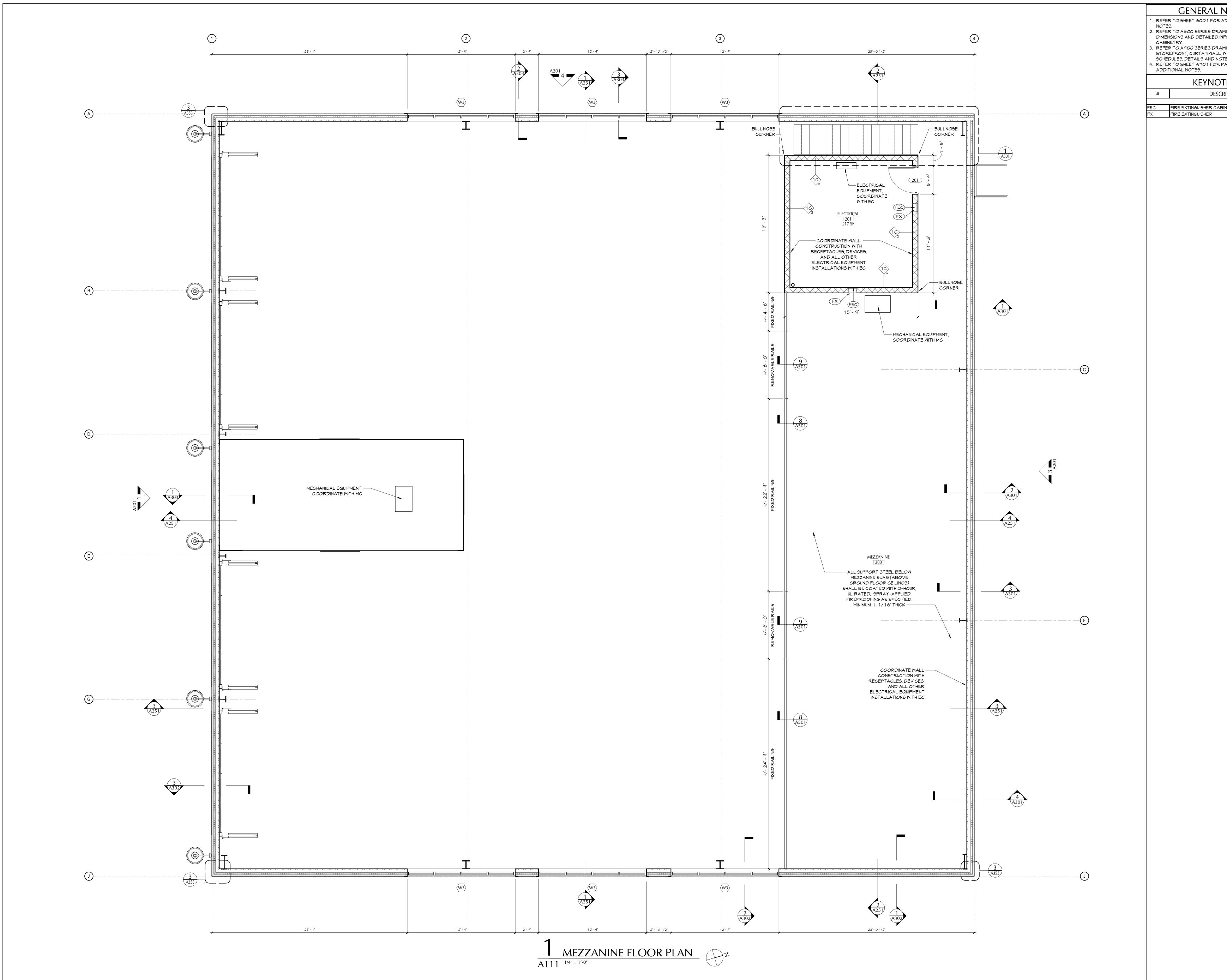


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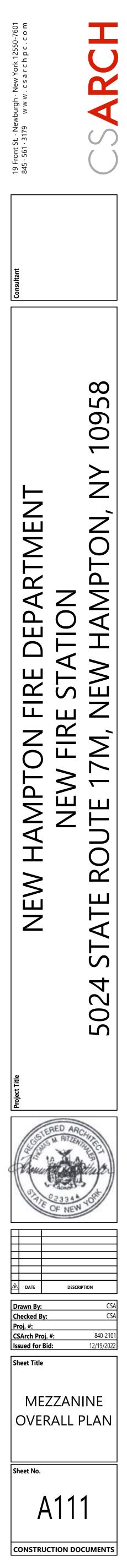


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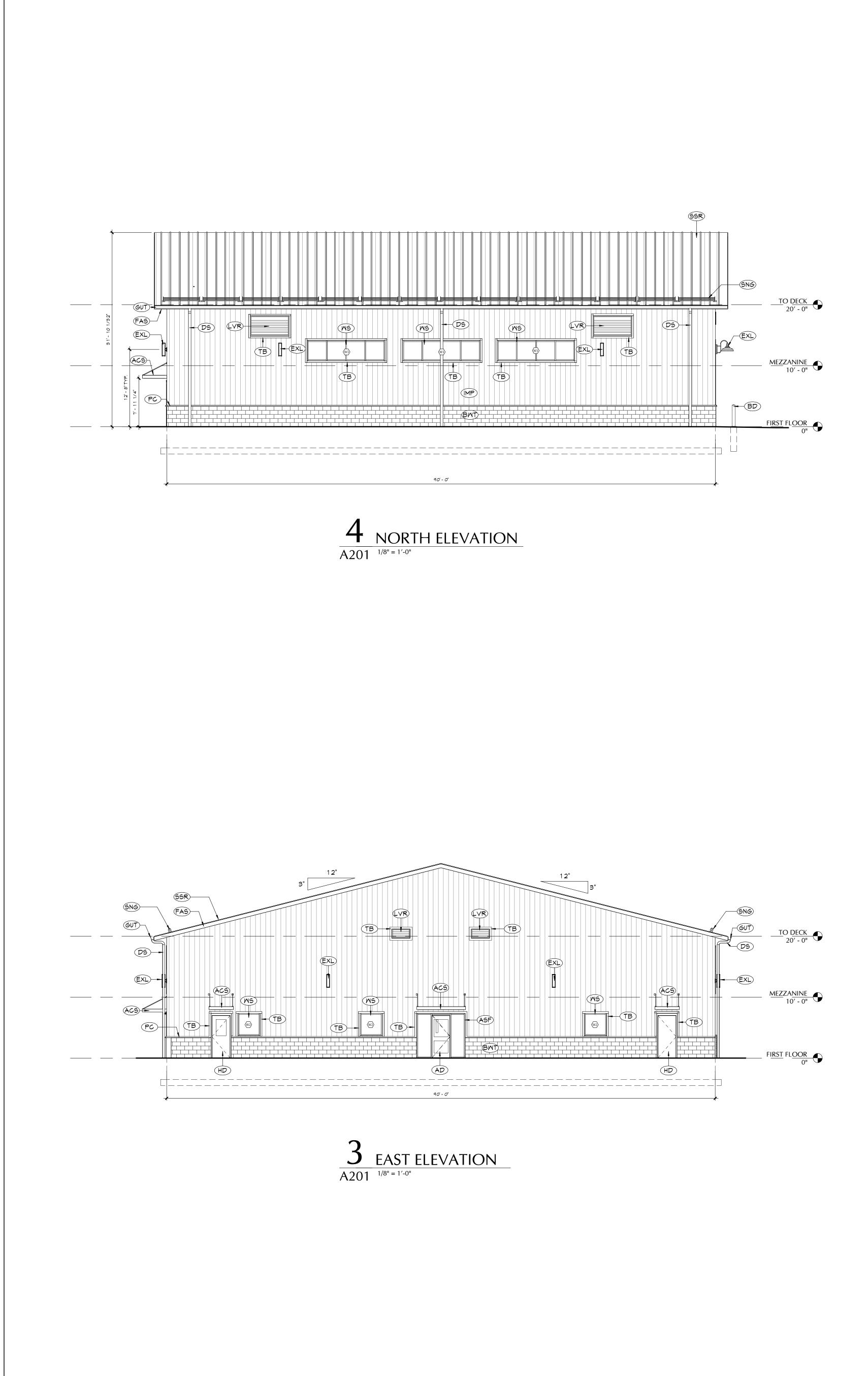


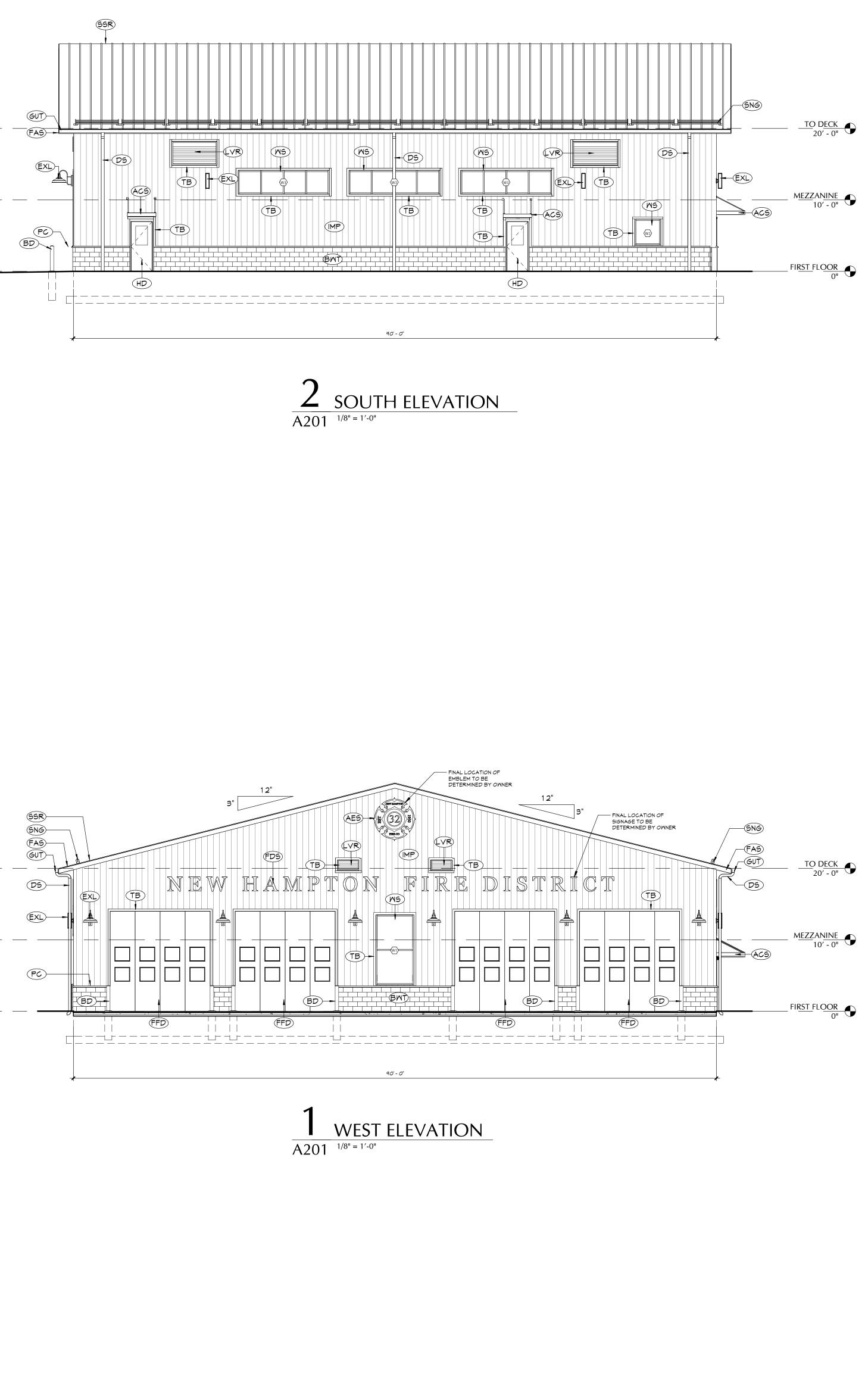
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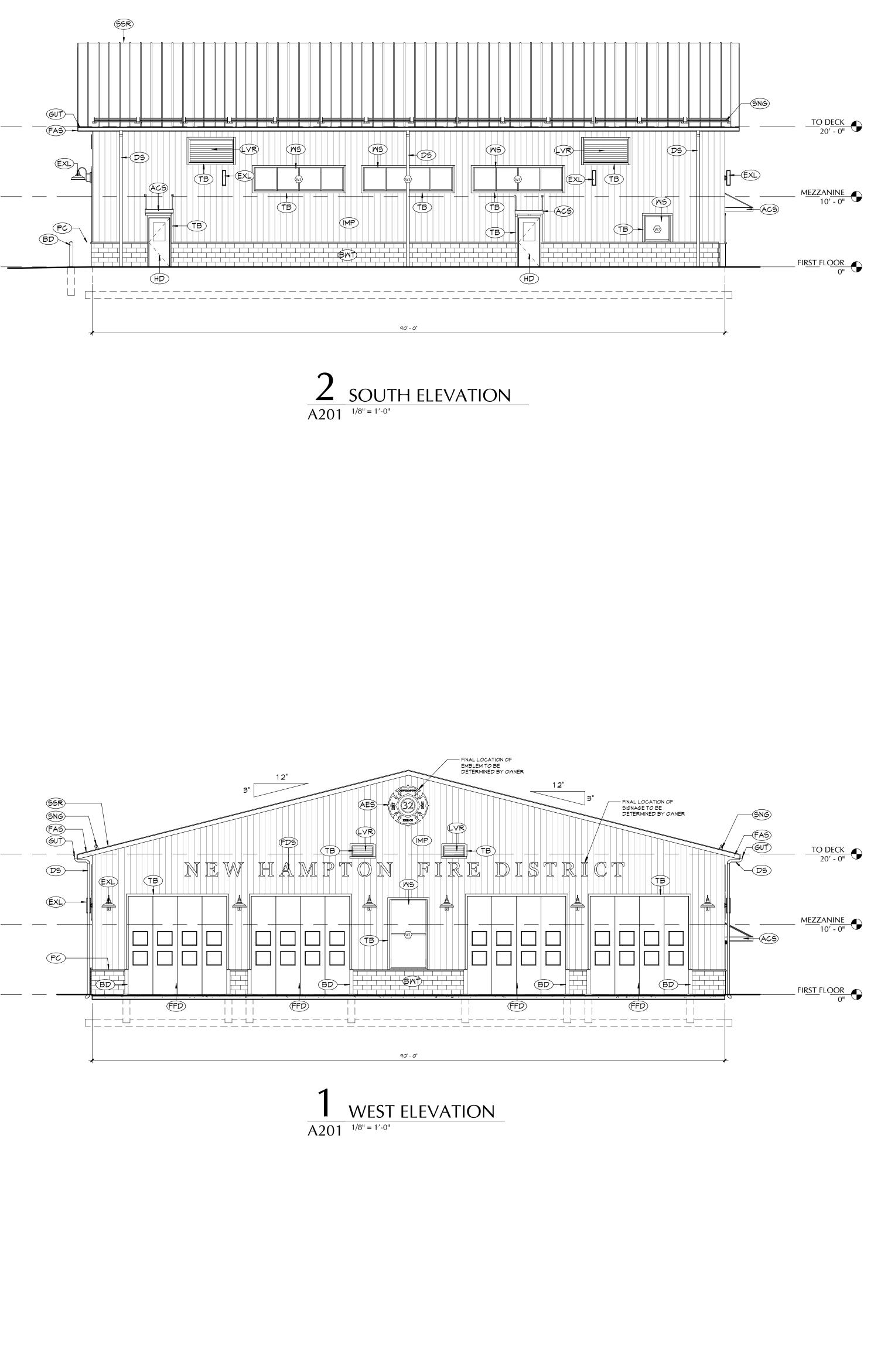
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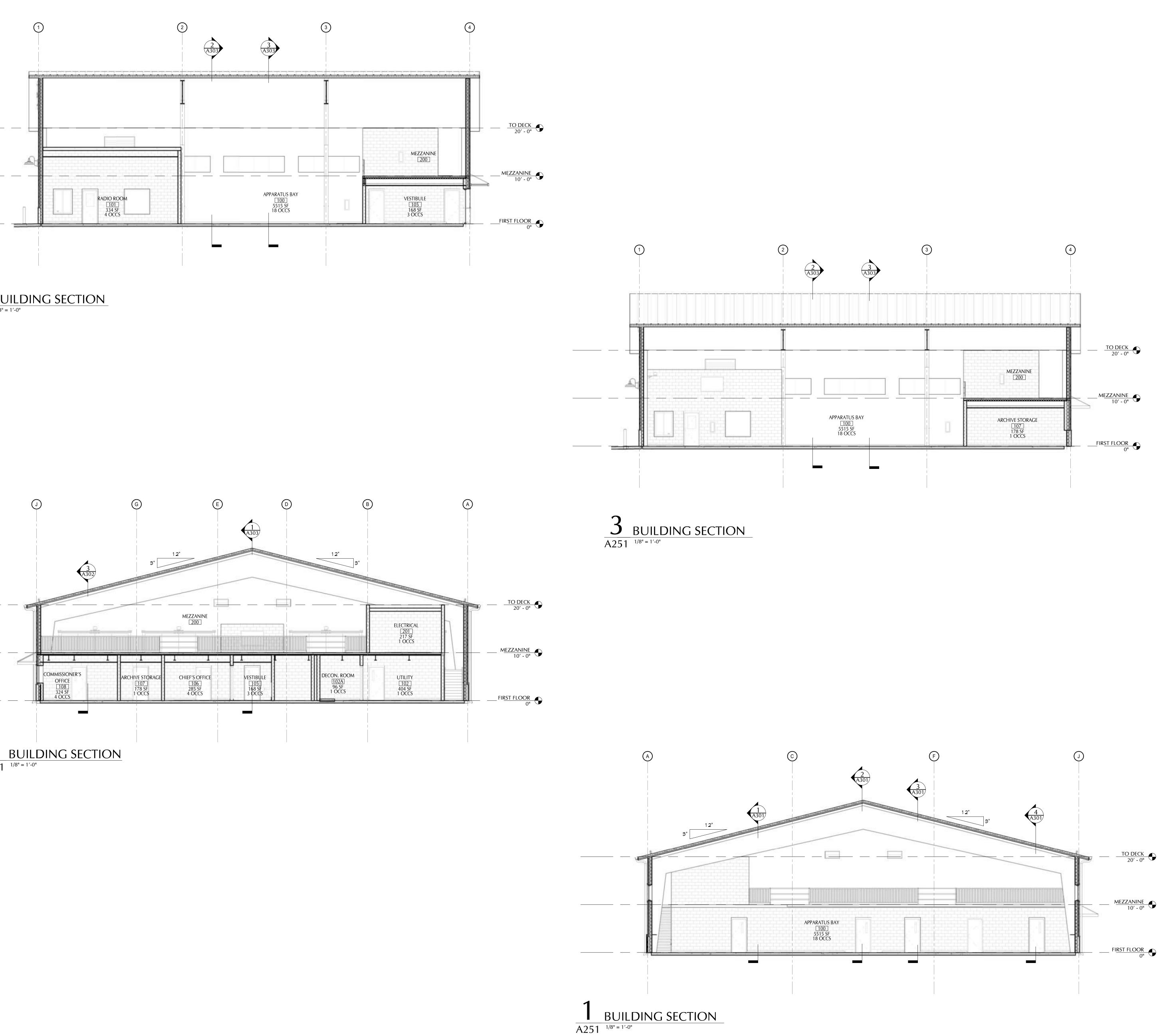


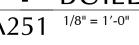


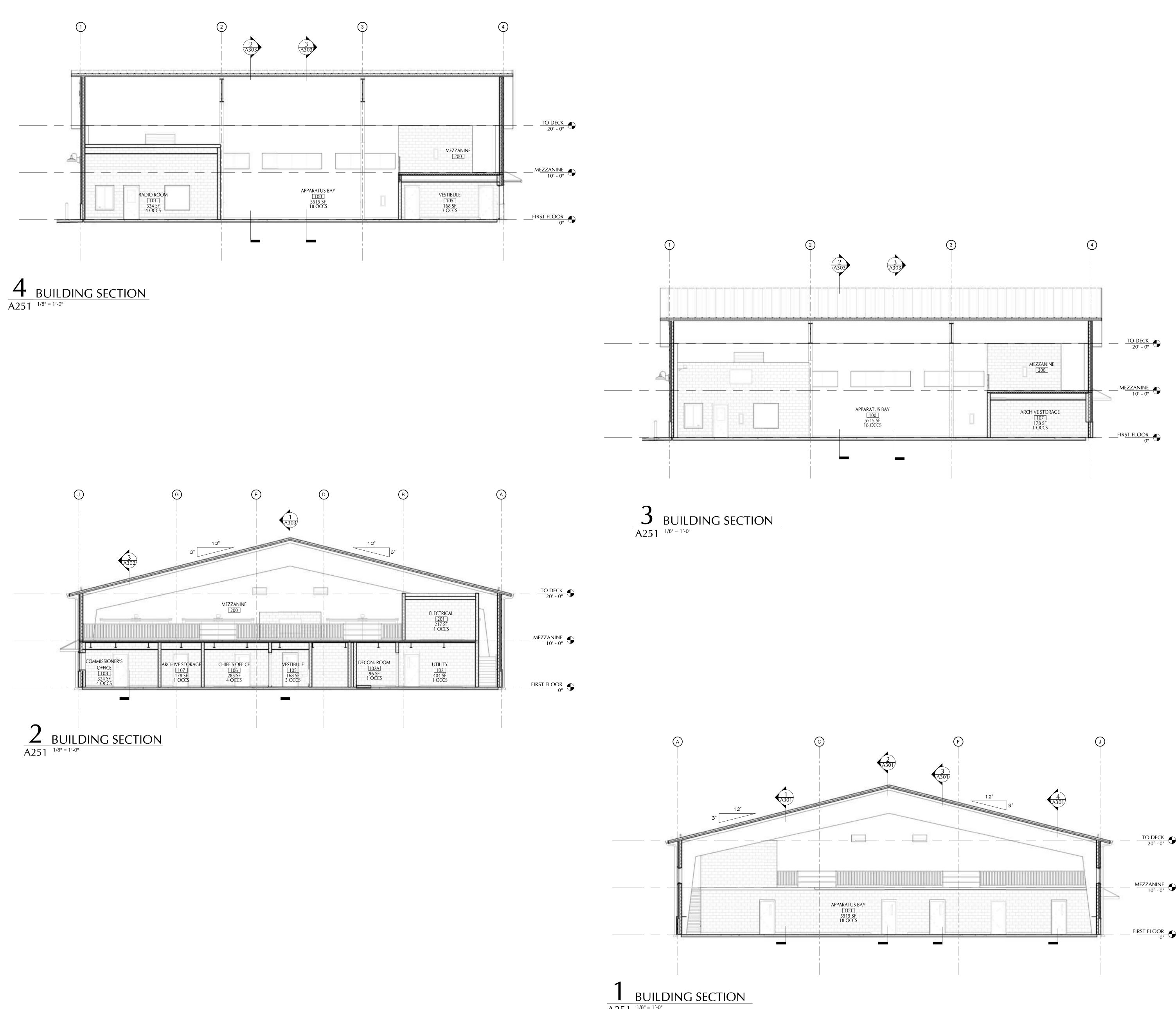


KEYNOTES				
# DESCRIPTION				
ACS	ALUM. CANOPY SYSTEM			
AD	ALUM. DOOR			
AES	ALUM. ENGRAVED FIRE EMBLEM SIGNAGE (REFER TO SHEET A751)			
ASF	ALUM. STOREFRONT, TYP.			
BD	BOLLARD, TYP. (REFER TO SHEET A751)			
BMT	WATERTABLE BLOCK, TYP.			
DS	4" x 5" DOWNSPOUT WITH UNDERGROUND CAST IRON BOOT AT ALL LOCATIONS, TYP.			
EXL	EXTERIOR LIGHTING, TYP. (REFER TO ELECTRICAL DRAWINGS)			
FAS	FASCIA TO MATCH ROOF FINISH, TYP.			
FDS	SOLID ALUM. SIGNAGE, MOUNTED TO STAINLESS STEEL STANDOFF BRACKETS.			
FFD	FOUR-FOLD DOOR			
GUT	8" X 6" BEVEL GUTTER, TYP.			
НD	HOLLOW METAL DOOR			
IMP	INSULATED METAL PANEL CLADDING, TYP.			
LVR	LOUVER, COORDINATE WITH MC. FINAL LOCATION TO BE DETERMINED IN THE FIELD.			
PC	PRE-CAST CONC. WATERTABLE COPING, TYP.			
SNG	SNOWGUARDS			
SSR	STANDING SEAM METAL ROOF, TYP.			
ТB	TRIM BOARD AROUND ALL OPENINGS, TYP.			
MS	WINDOW SYSTEM, TYP.			



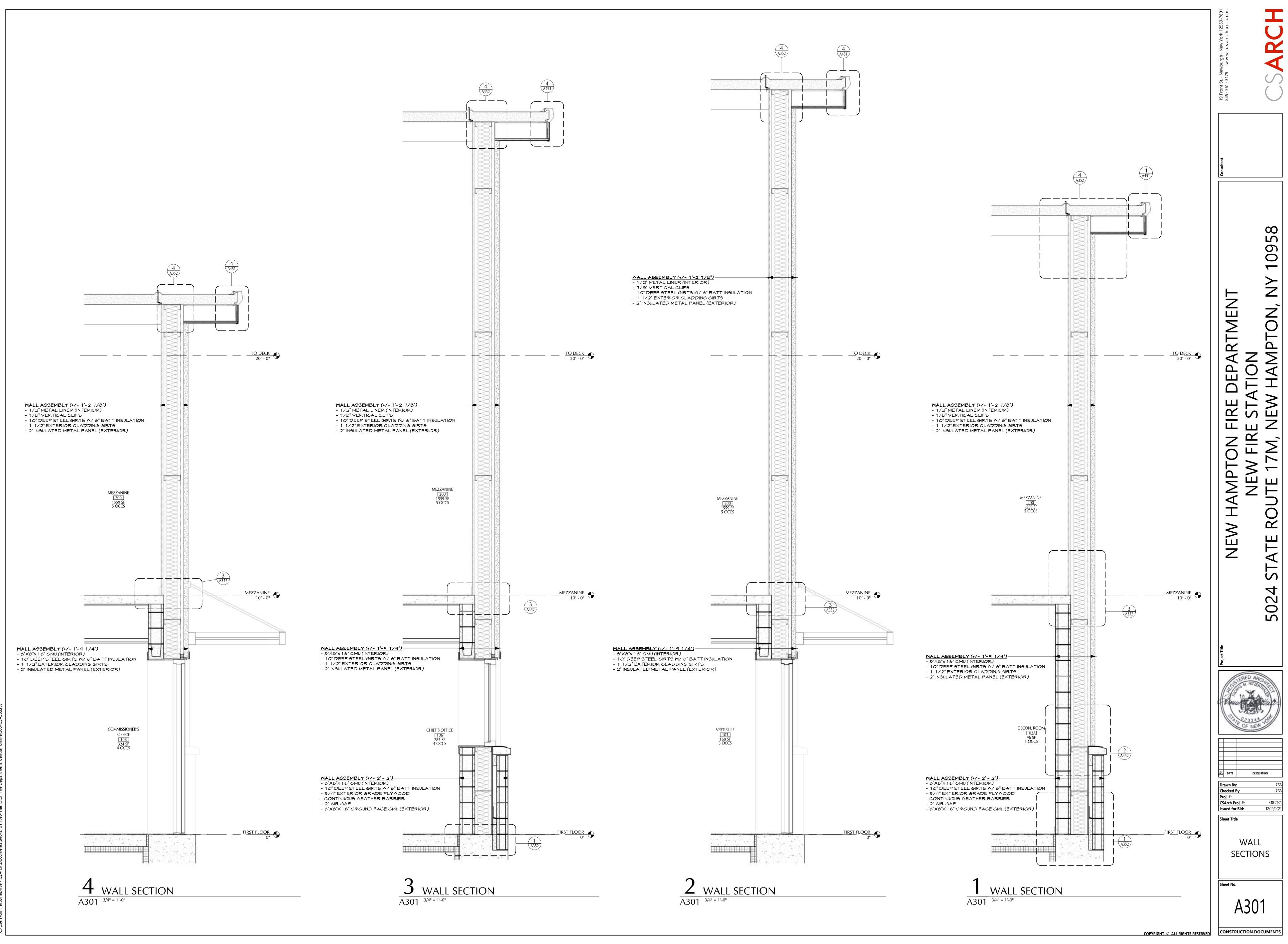


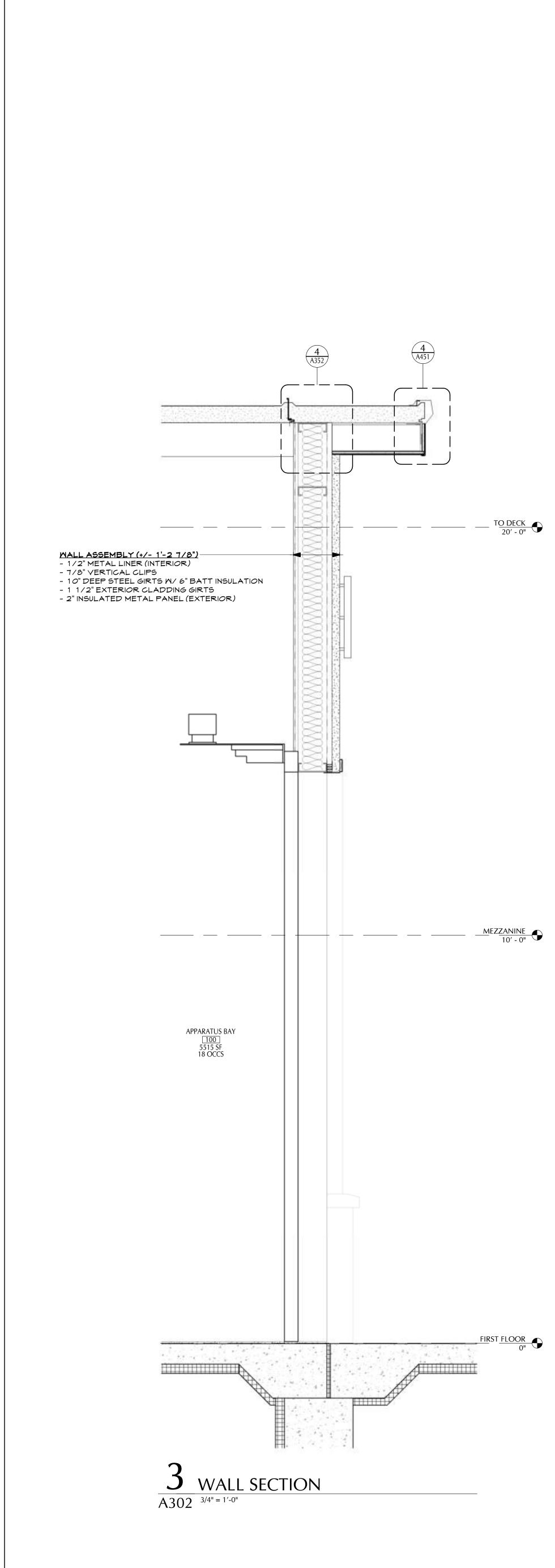




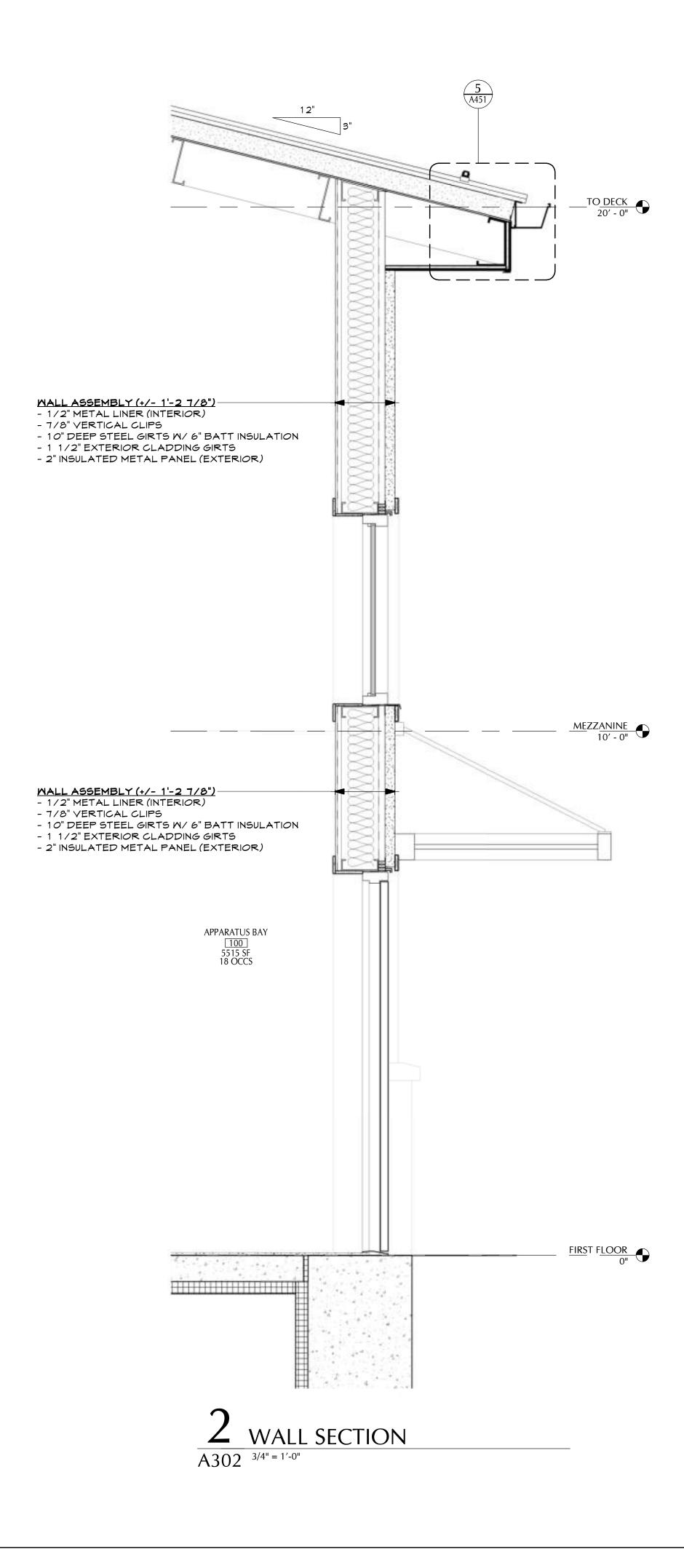


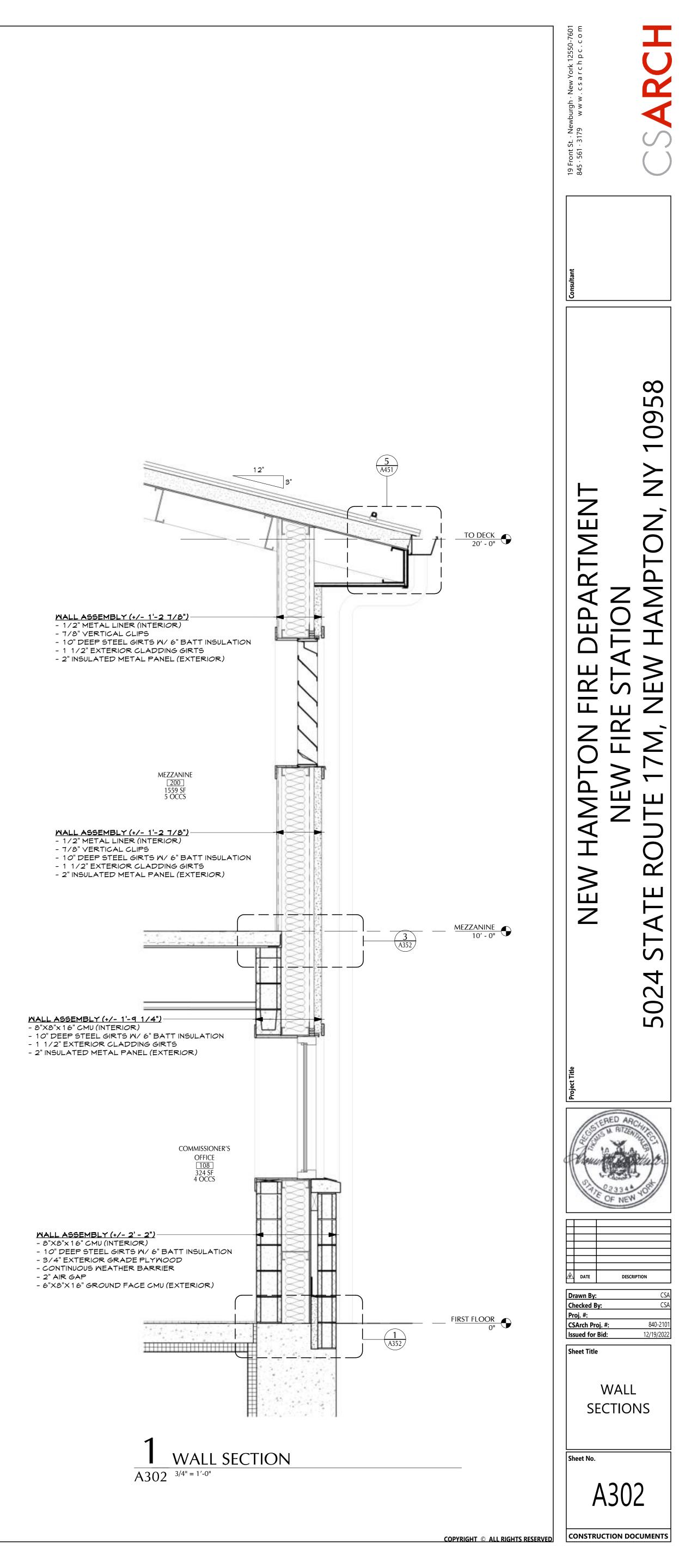


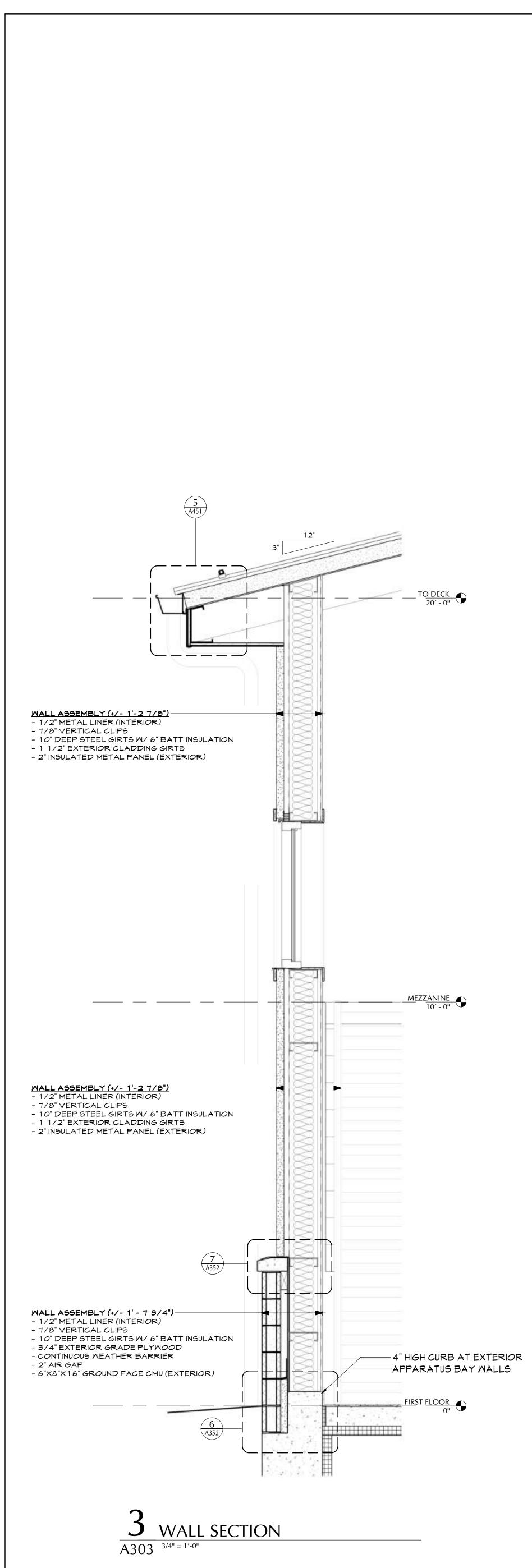




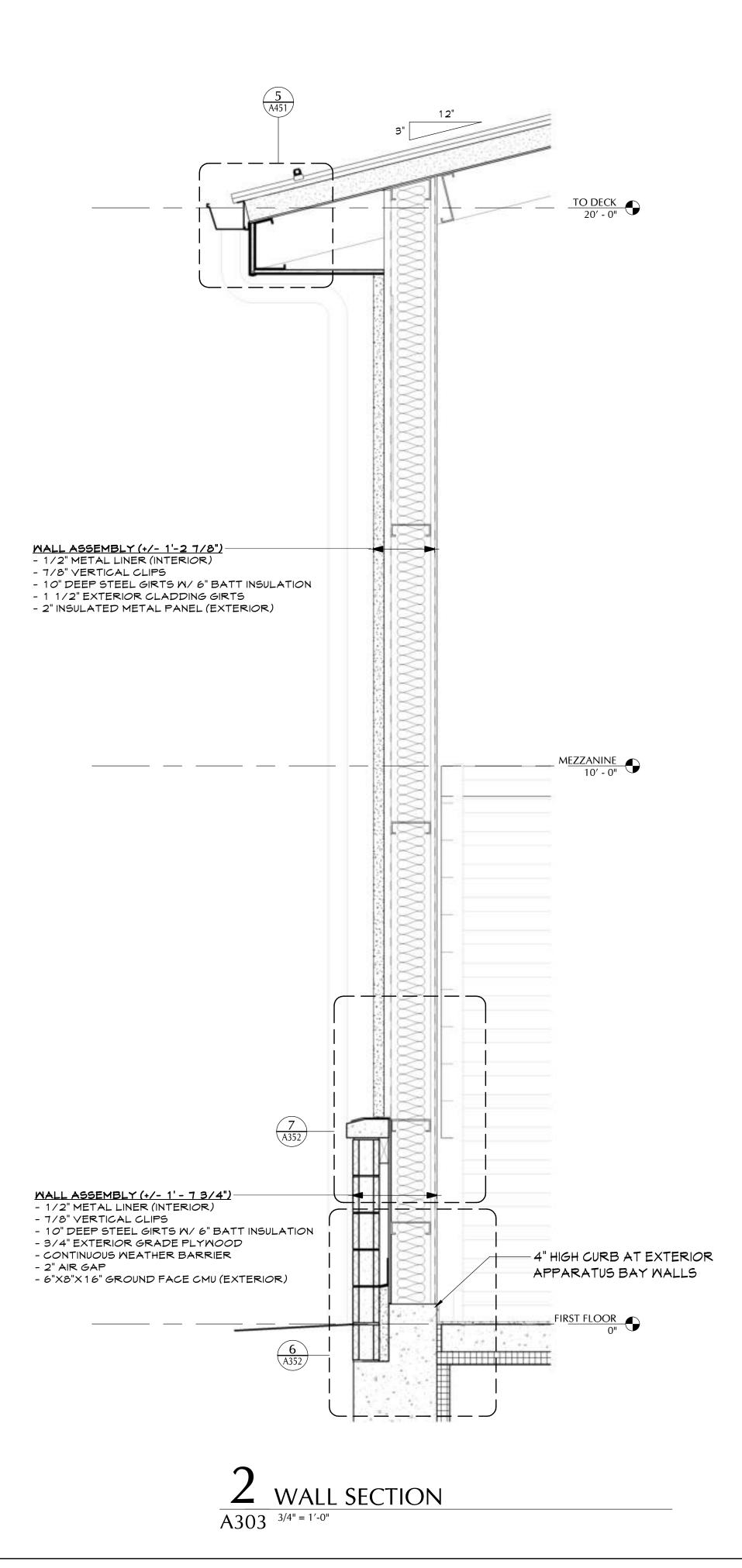
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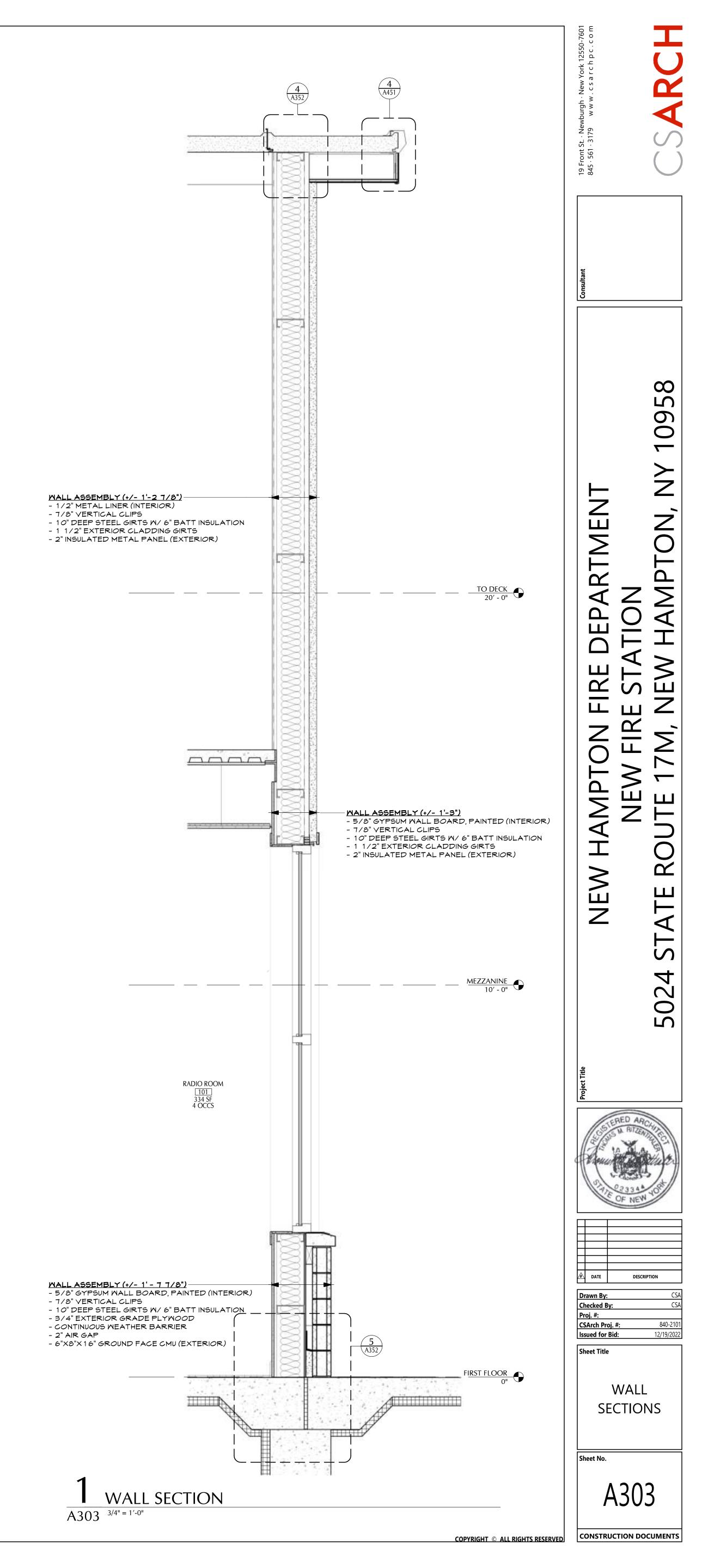


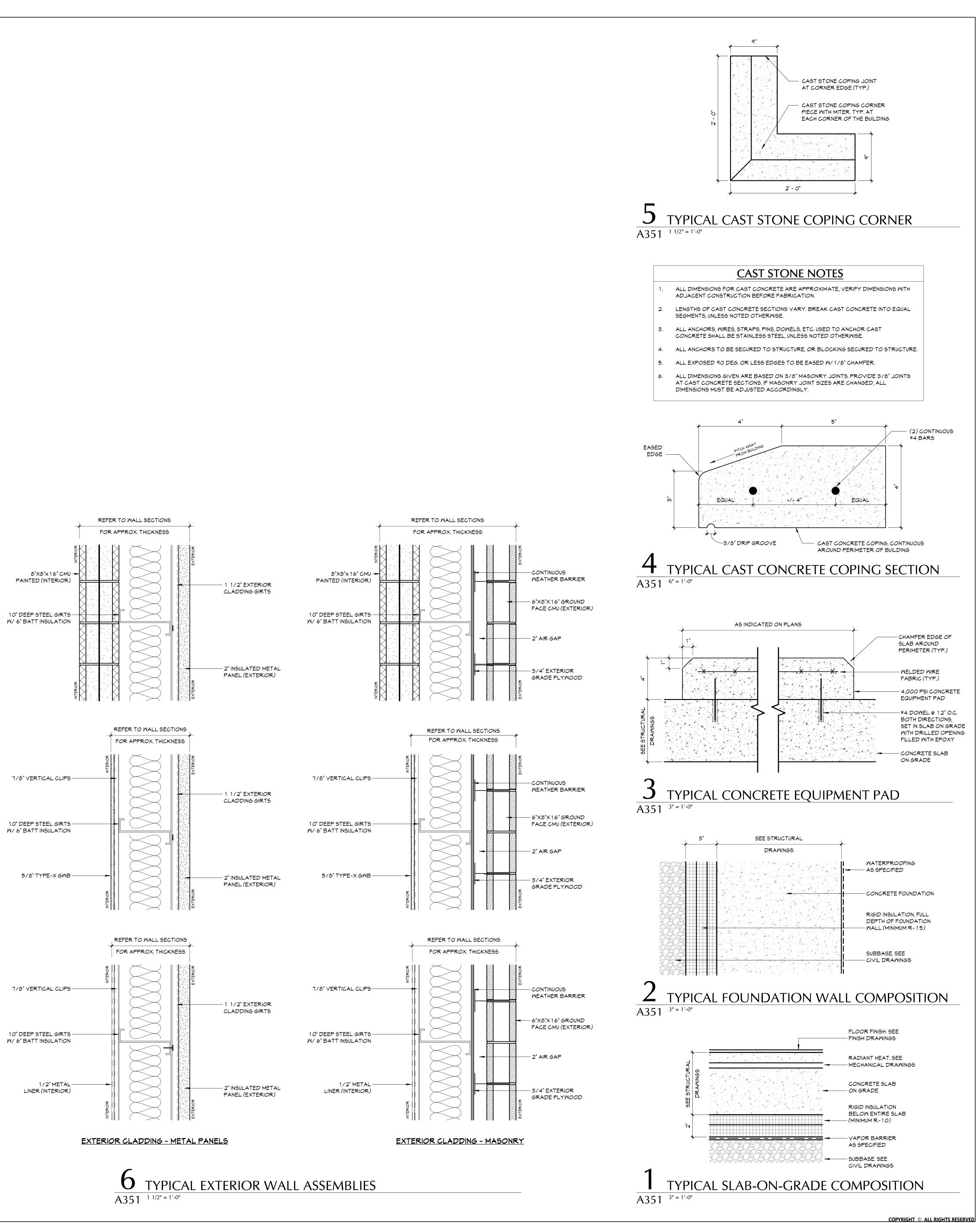




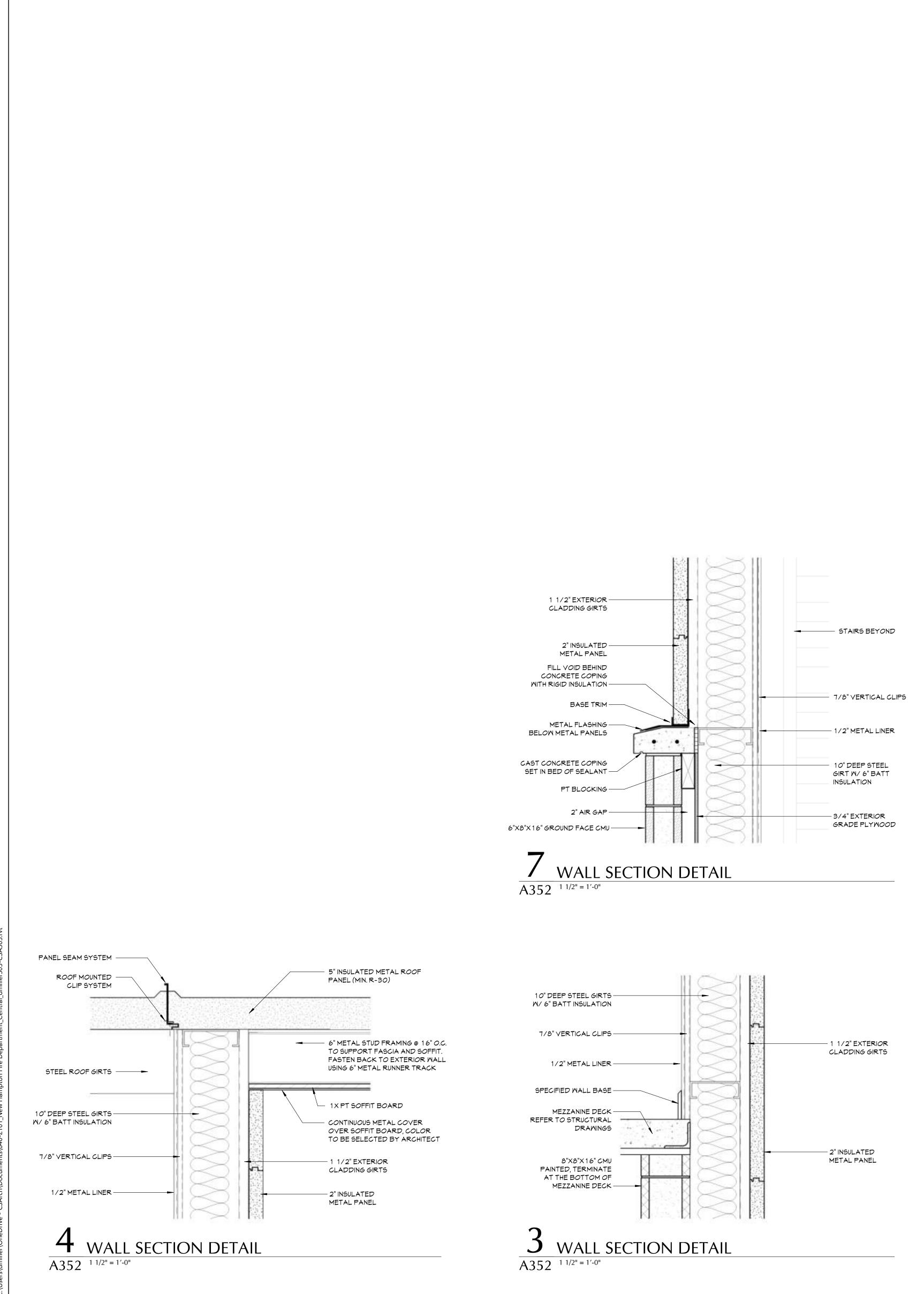
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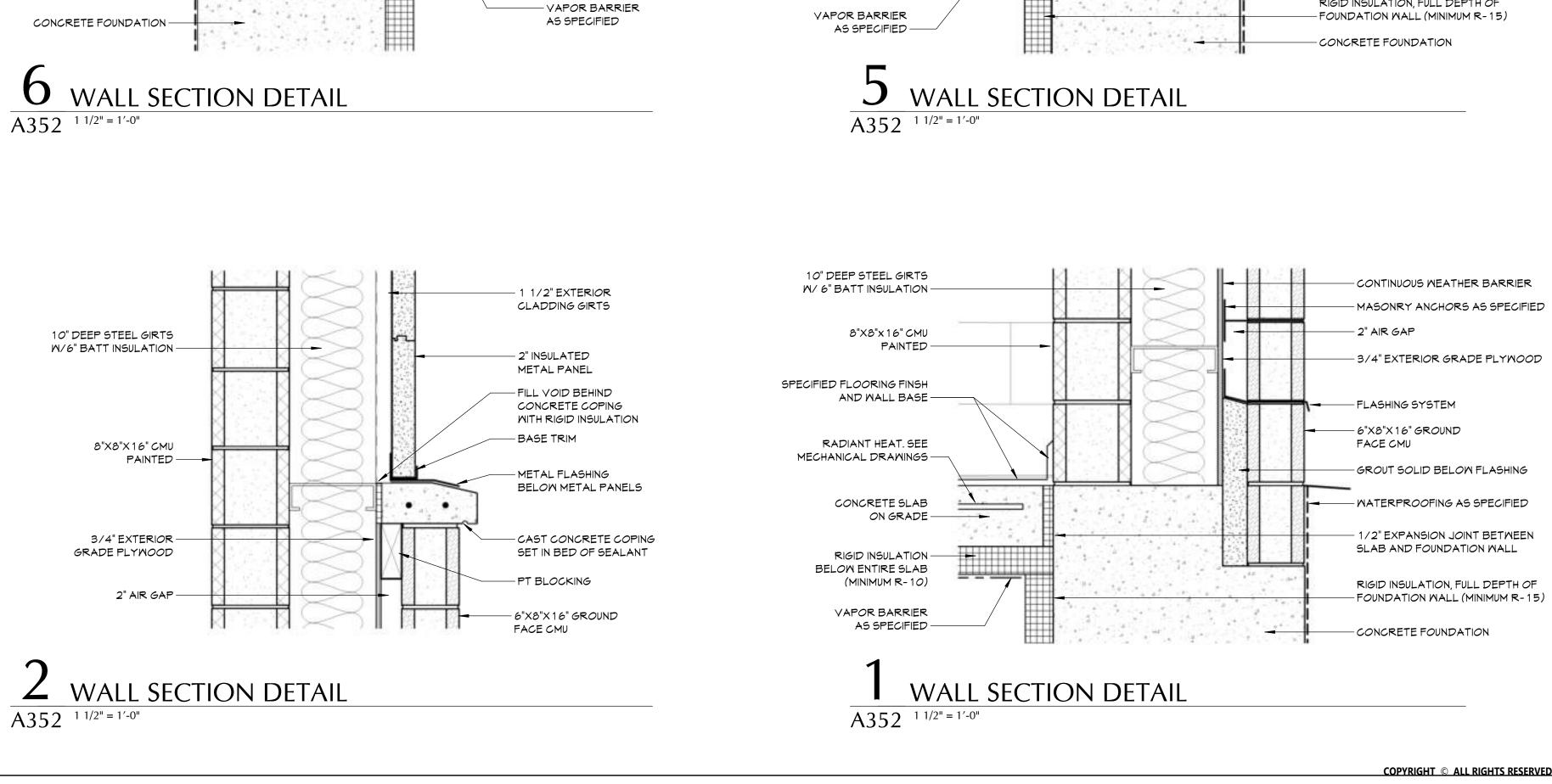


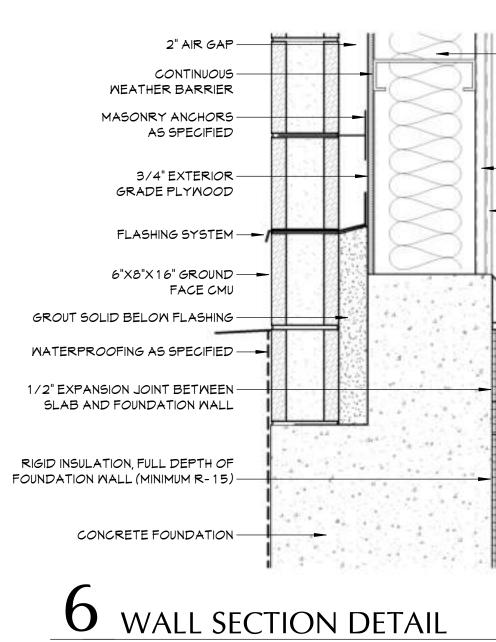












# - STAIRS BEYOND CONCRETE SLAB N

- 10" DEEP STEEL GIRTS W/ 6" BATT INSULATION

- 7/8" VERTICAL CLIPS

- 1/2" METAL LINER

- SPECIFIED FLOORING FINSH AND WALL BASE - RADIANT HEAT. SEE

MECHANICAL DRAWINGS

- RIGID INSULATION BELOW ENTIRE SLAB (MINIMUM R-10)

RIGID INSULATION BELOW ENTIRE — SLAB (MINIMUM R-10)

7/8" VERTICAL CLIPS -

5/8" TYPE-X GWB -

CONCRETE SLAB

EPOXY FLOORING AND INTEGRAL BASE -RADIANT HEAT. SEE MECHANICAL DRAWINGS-1. A. P. 1411 ON GRADE ------

3/4" EXTERIOR GRADE PLYWOOD MASONRY ANCHORS AS SPECIFIED — 2" AIR GAP - 6"X8"X16" GROUND FACE CMU - FLASHING SYSTEM -CONTINUOUS WEATHER BARRIER - GROUT SOLID BELOW FLASHING RADIANT HEAT. SEE - MECHANICAL DRAWINGS - CONCRETE SLAB ON GRADE — 1/2" EXPANSION JOINT BETWEEN SLAB AND FOUNDATION WALL RIGID INSULATION BELOW ENTIRE -SLAB (MINIMUM R-10)- WATERPROOFING AS SPECIFIED RIGID INSULATION, FULL DEPTH OF FOUNDATION WALL (MINIMUM R-15)

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A352 CONSTRUCTION DOCUMENTS

SECTION

DETAILS

- 3/4" EXTERIOR GRADE PLYWOOD

- MASONRY ANCHORS AS SPECIFIED

- CONTINUOUS WEATHER BARRIER

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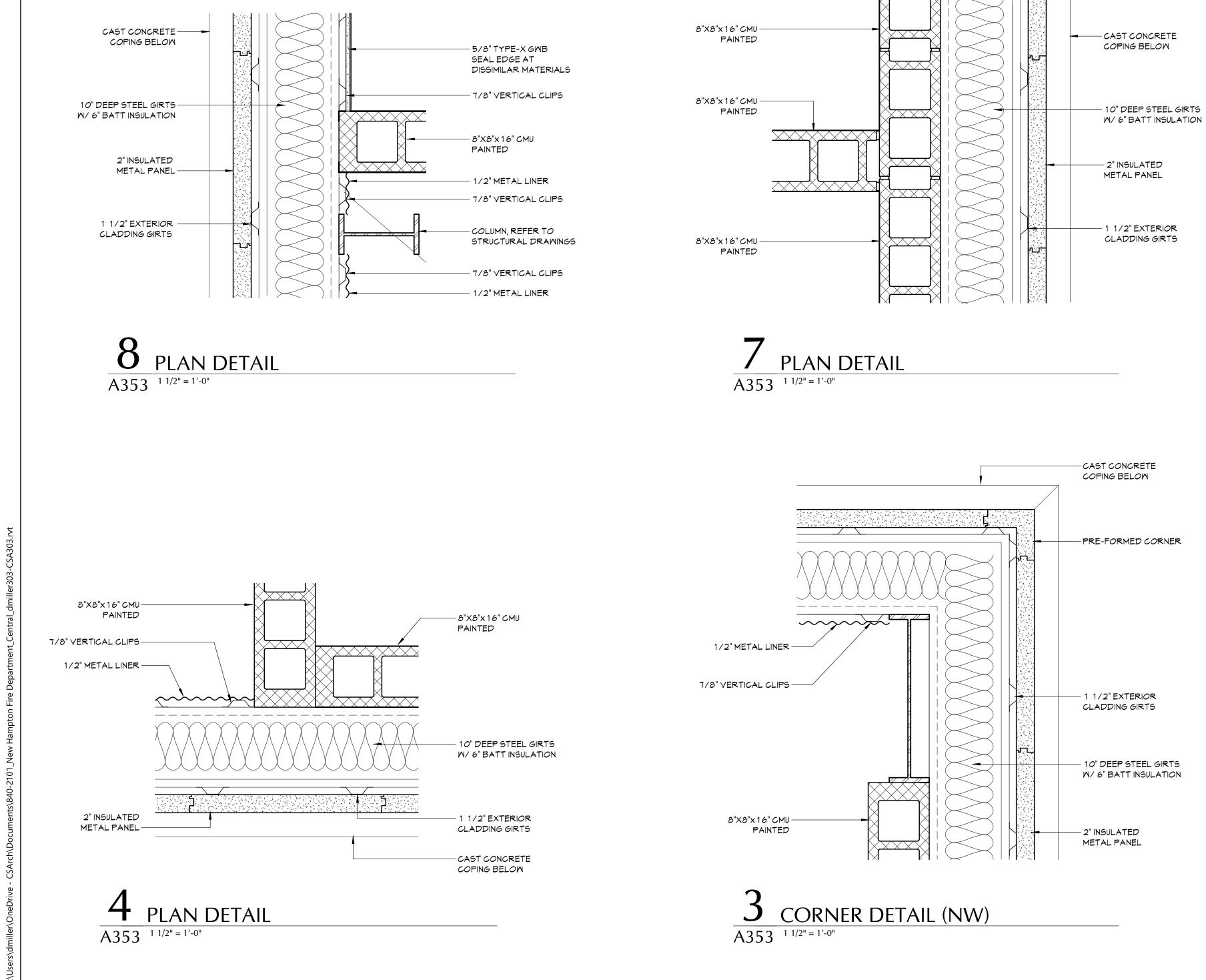
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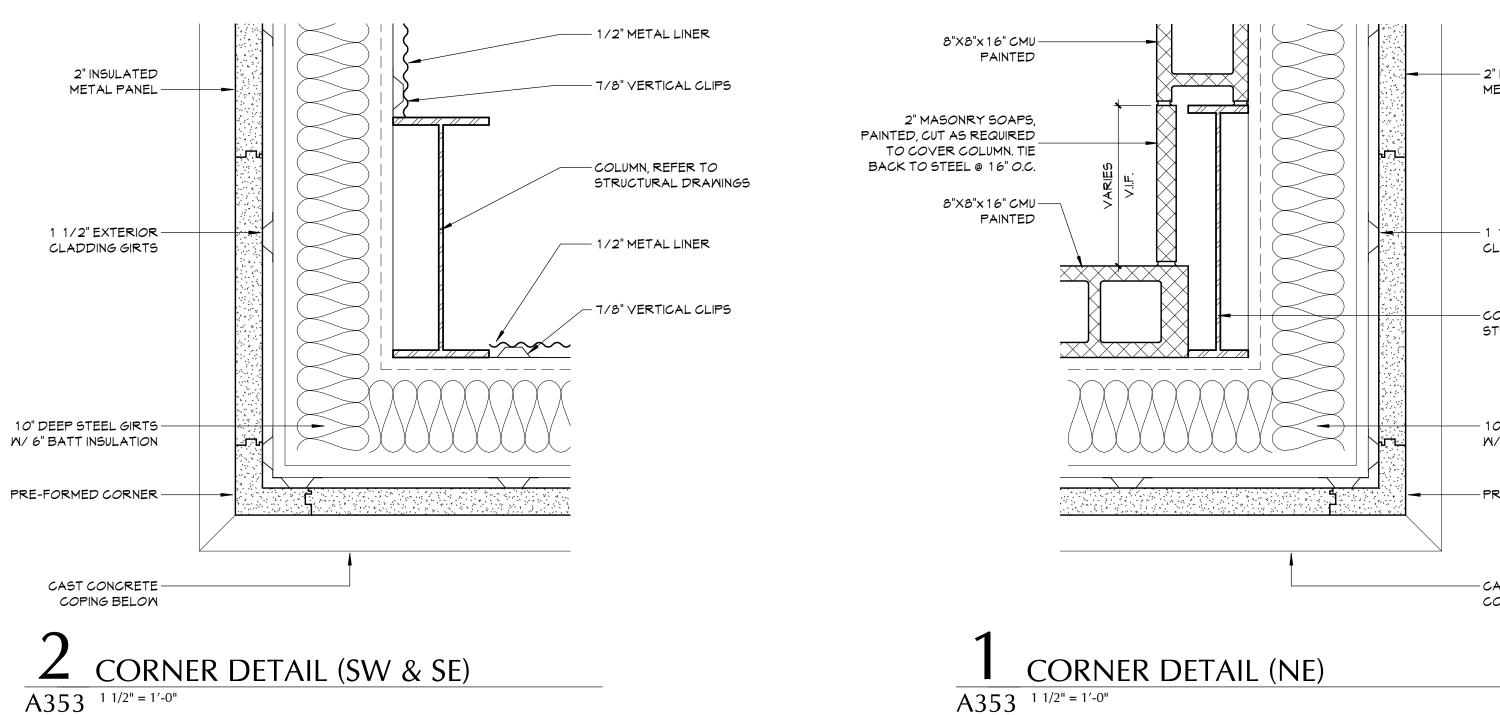
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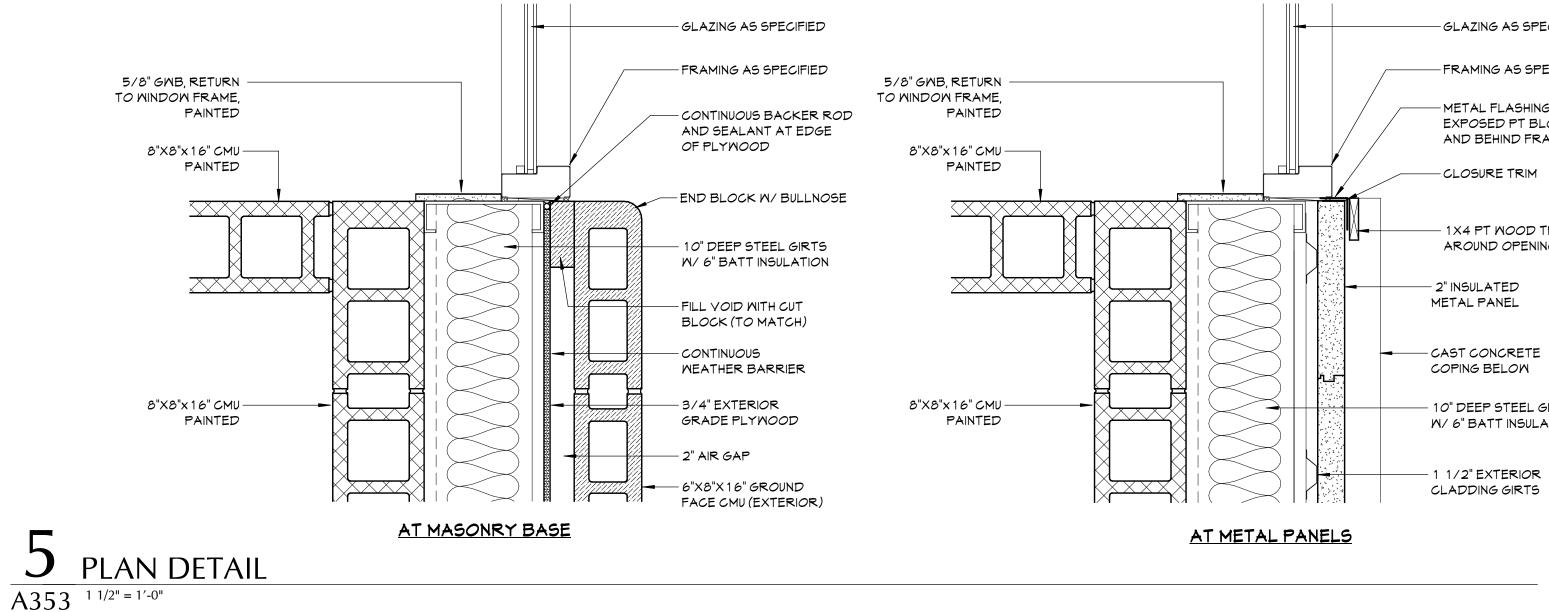
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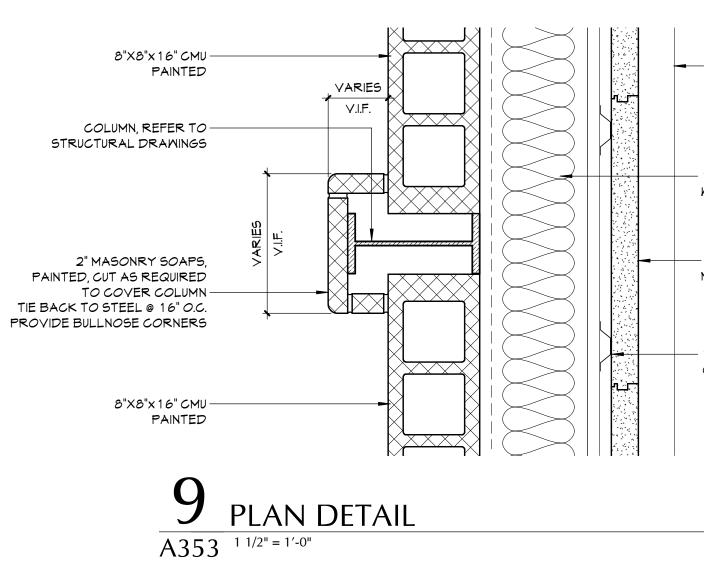
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- CAST CONCRETE COPING BELOW

> - 10" DEEP STEEL GIRTS W/ 6" BATT INSULATION

- 2" INSULATED METAL PANEL

-1 1/2" EXTERIOR CLADDING GIRTS

- GLAZING AS SPECIFIED - FRAMING AS SPECIFIED ---- METAL FLASHING OVER EXPOSED PT BLOCKING AND BEHIND FRAME

- 1X4 PT WOOD TRIM AROUND OPENING, PAINTED

- 10" DEEP STEEL GIRTS M/ 6" BATT INSULATION

- 2" INSULATED METAL PANEL

— 1 1/2" EXTERIOR CLADDING GIRTS

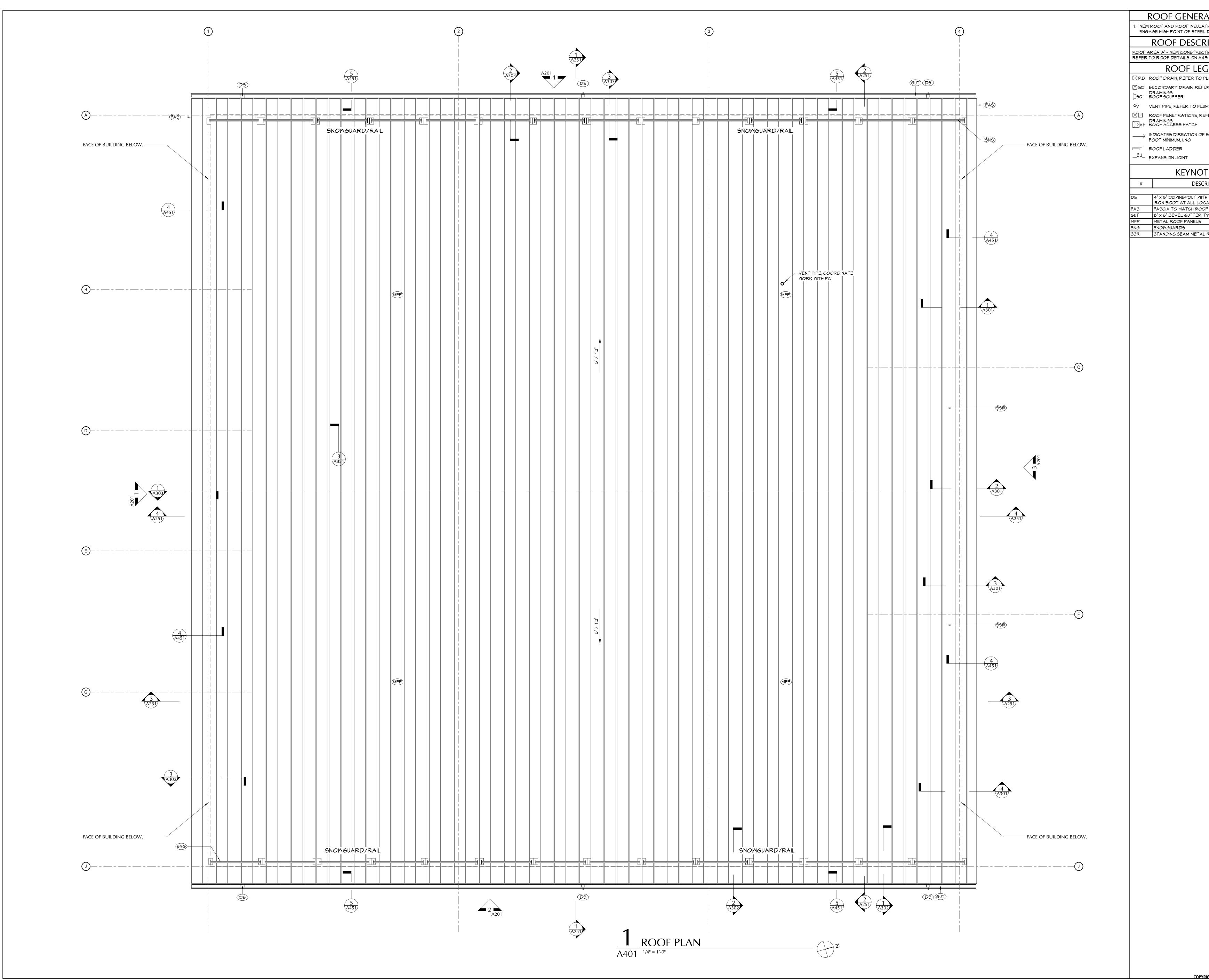
- COLUMN, REFER TO STRUCTURAL DRAWINGS

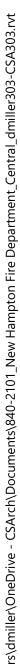
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-PRE-FORMED CORNER

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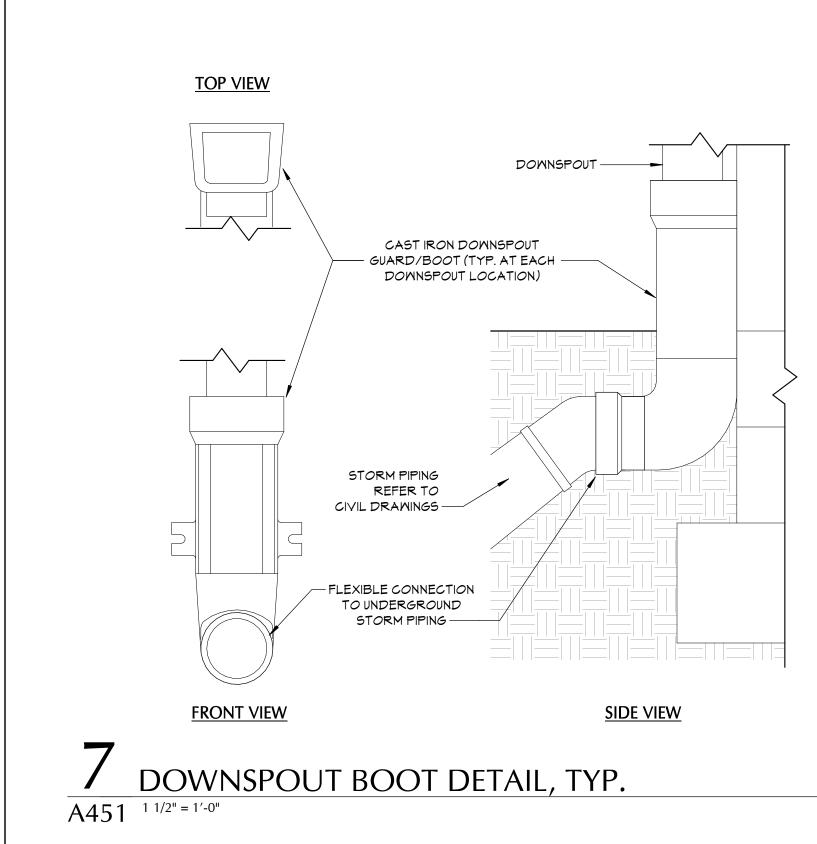


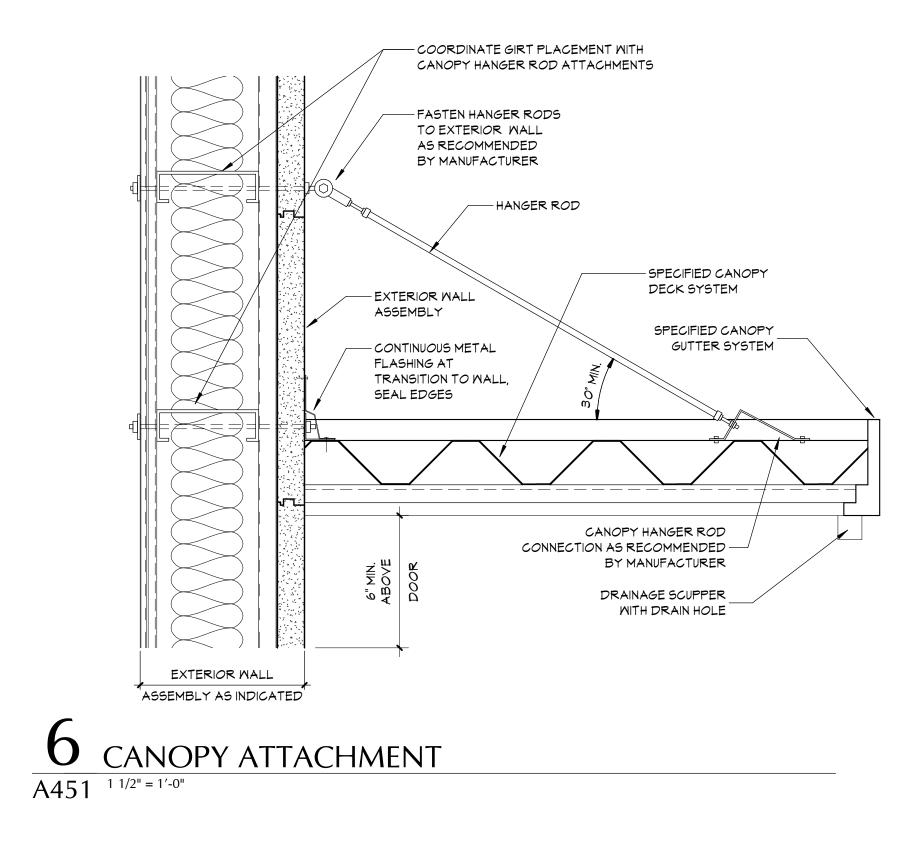


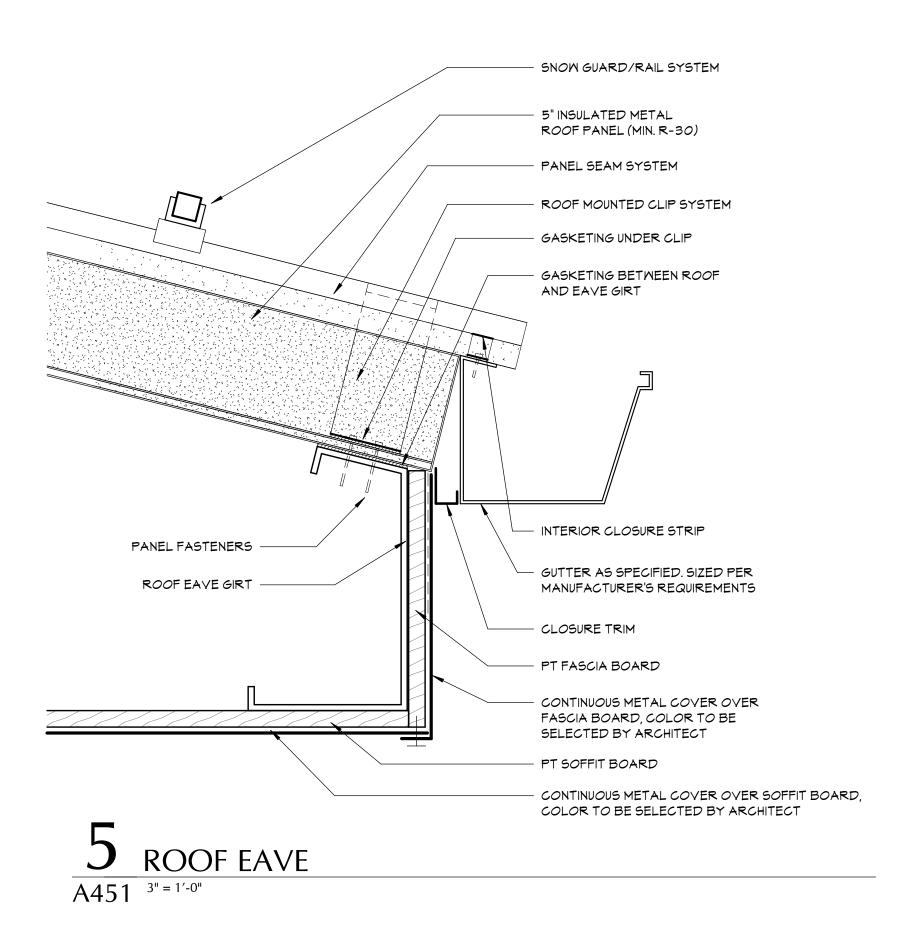


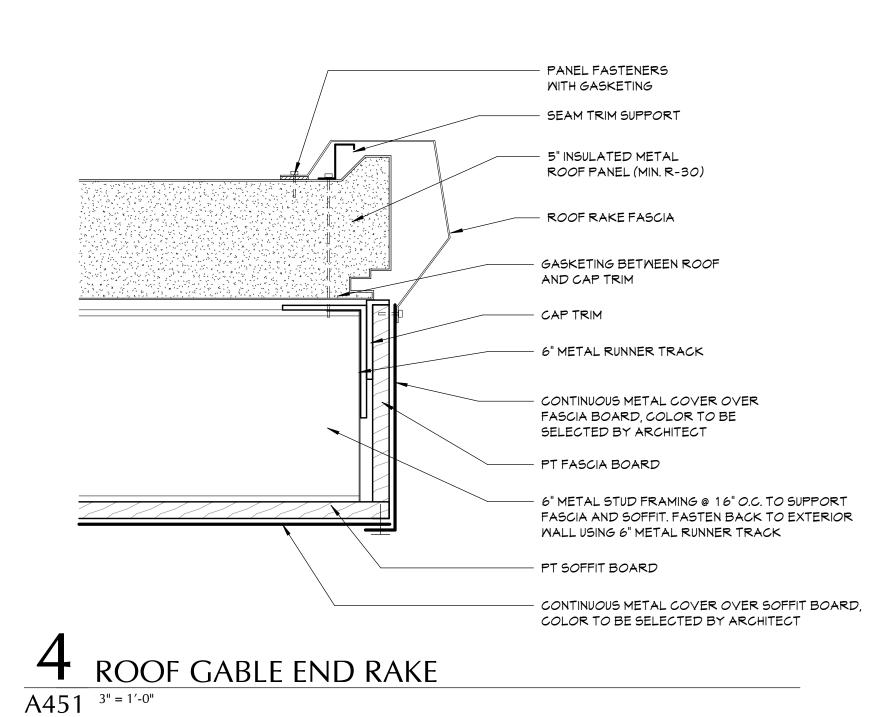
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	Checked By:         CSA           Proj. #:         CSArch Proj. #:         840-2101           Issued for Bid:         12/19/2022
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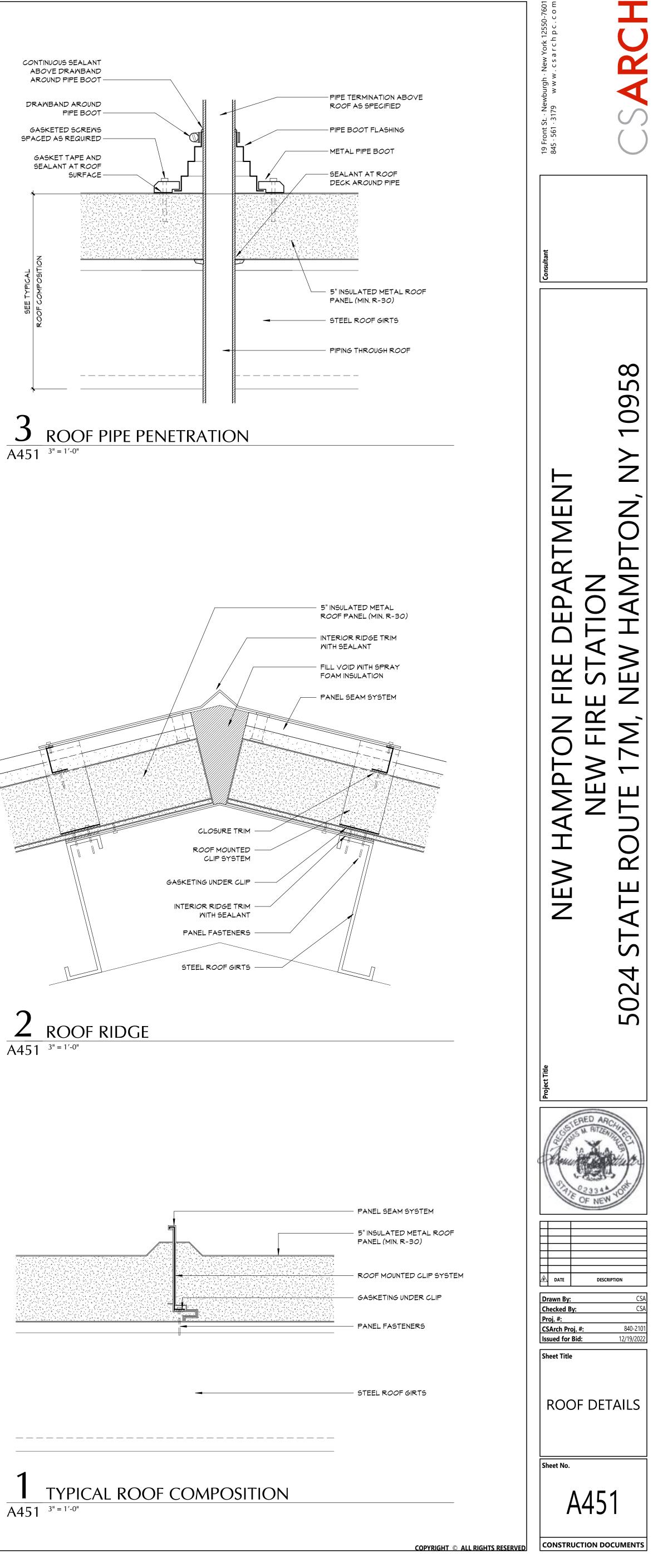


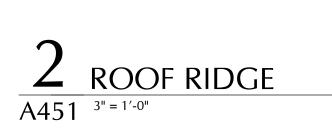


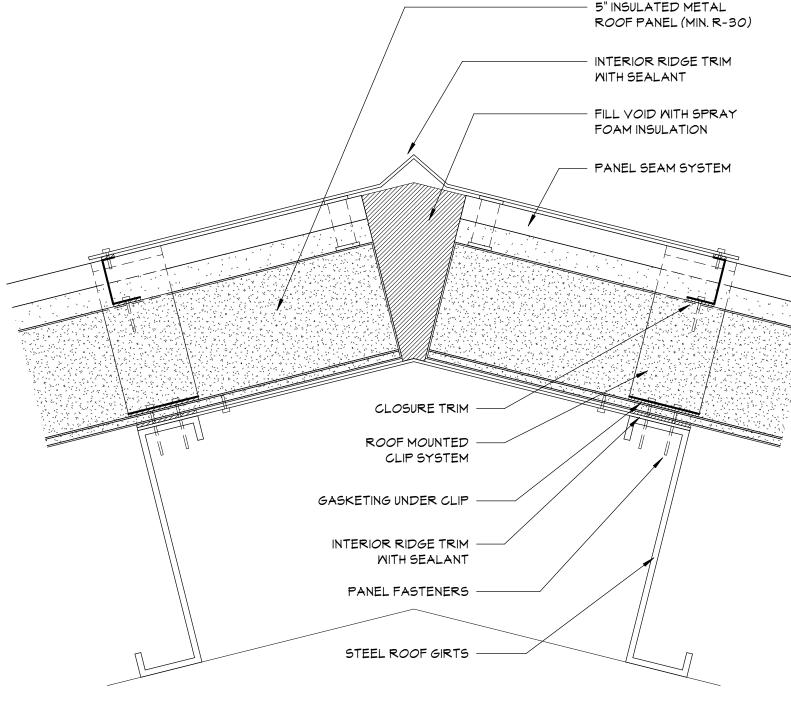


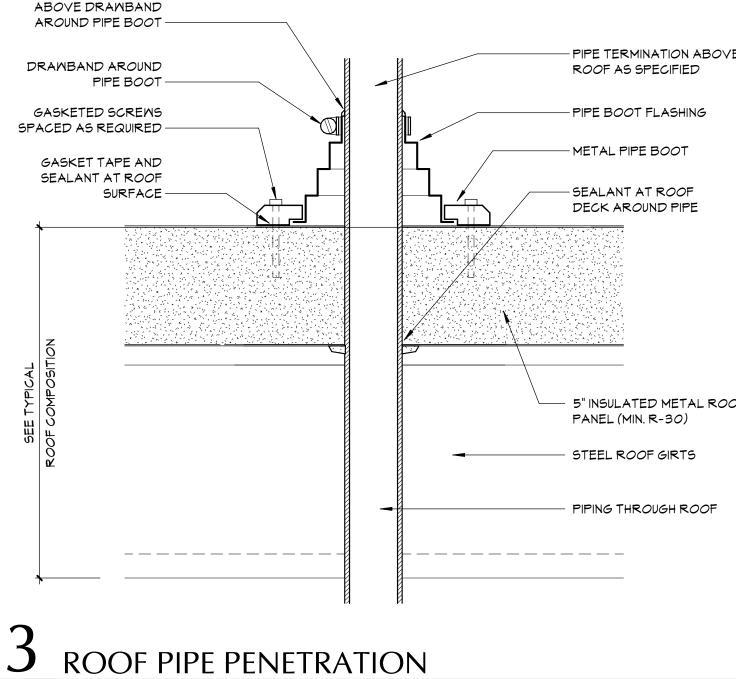


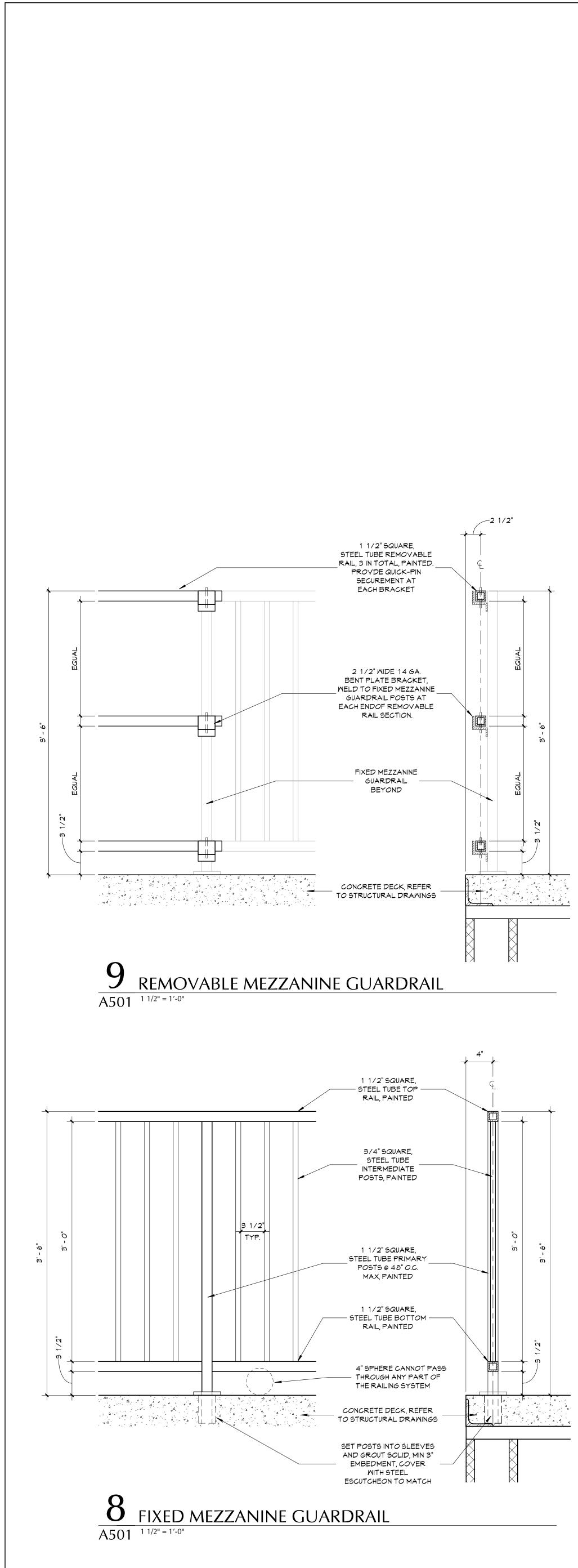




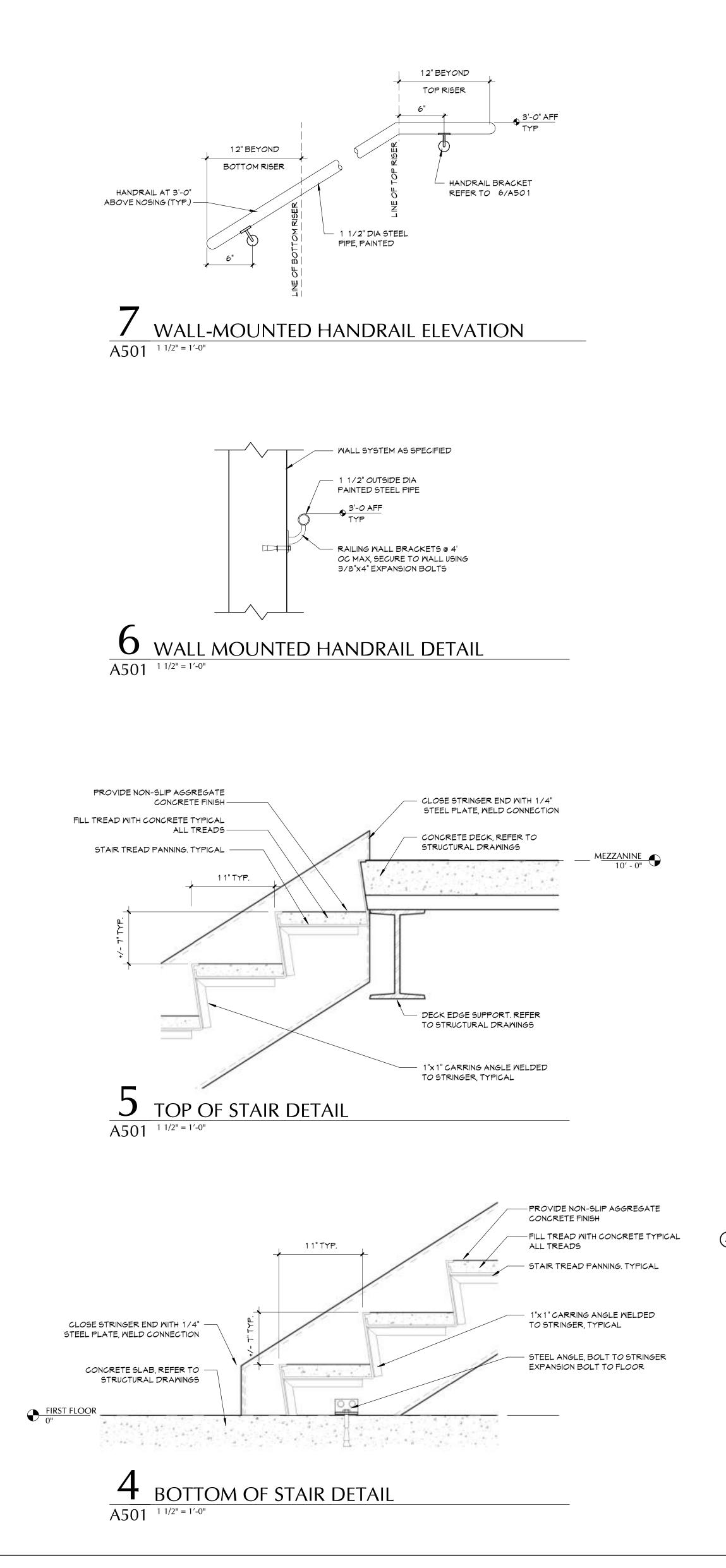


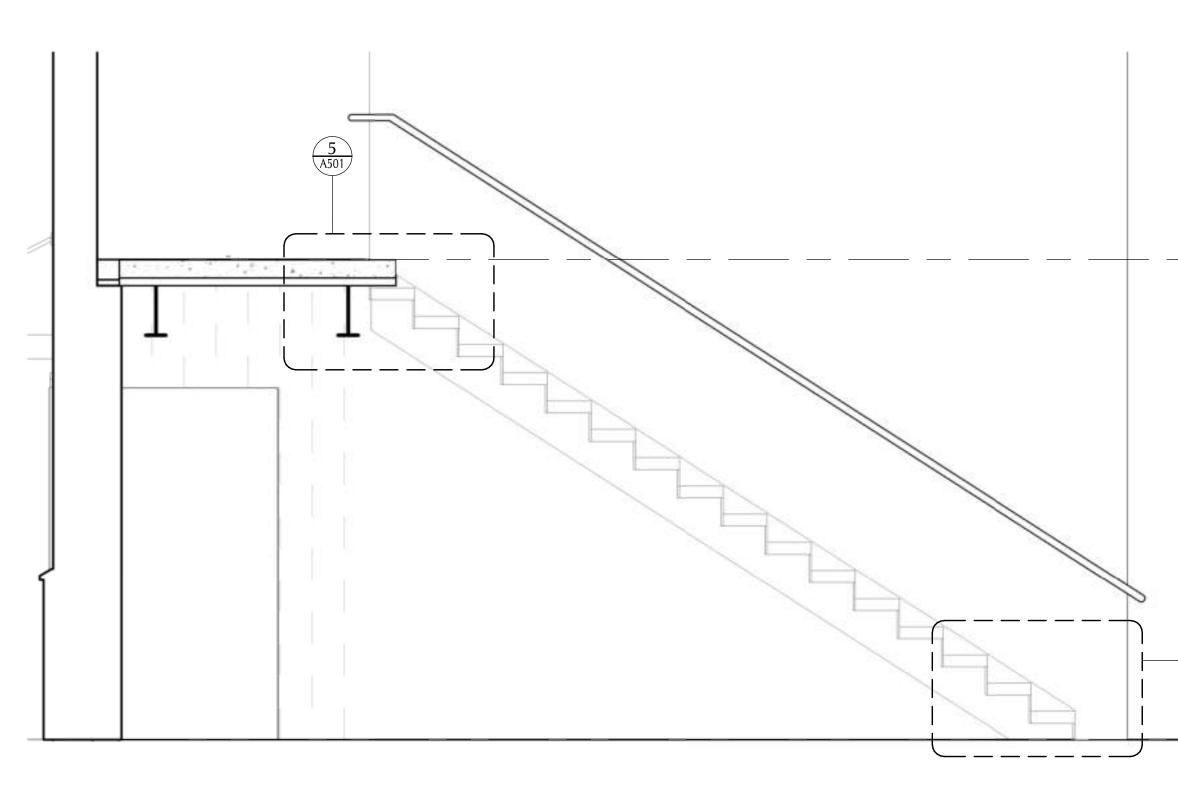




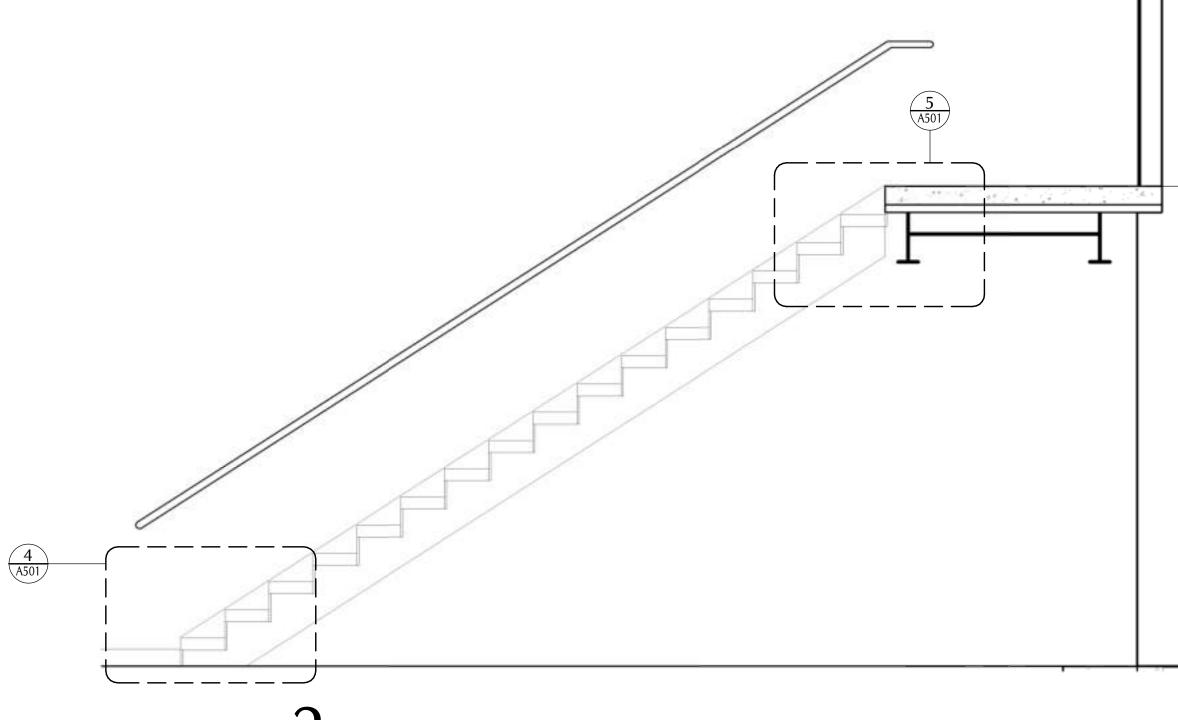


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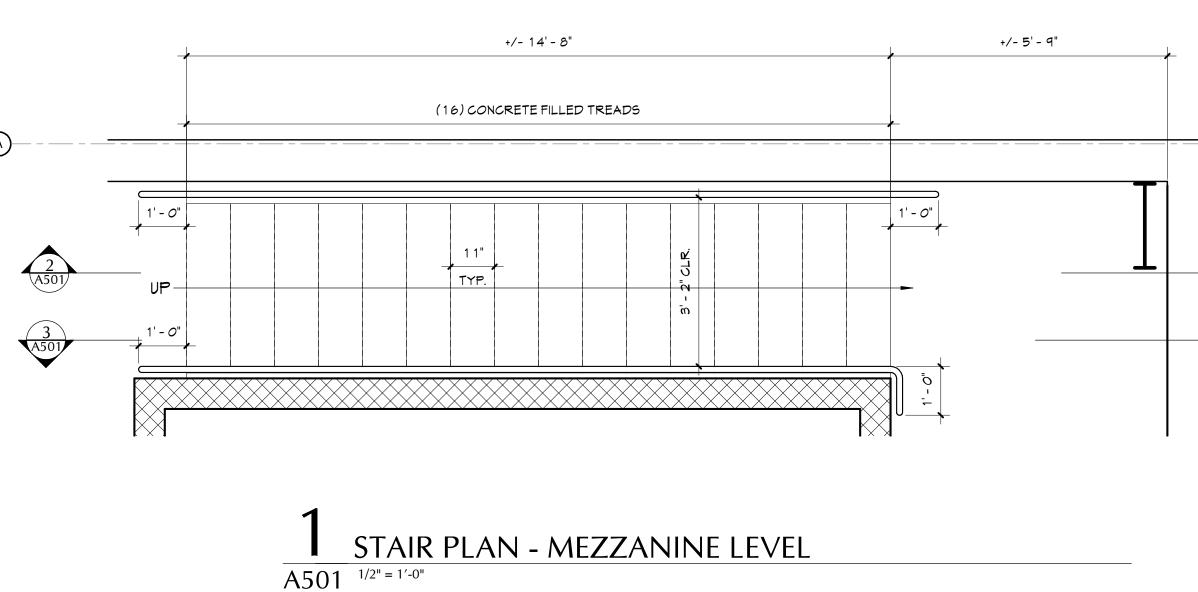


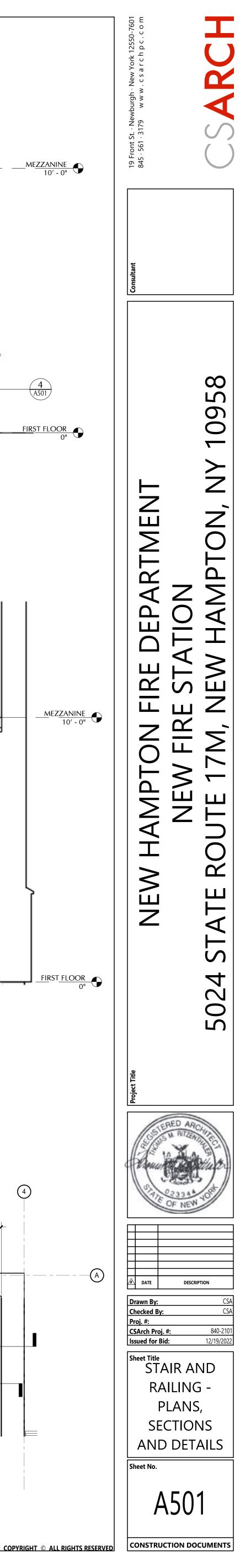


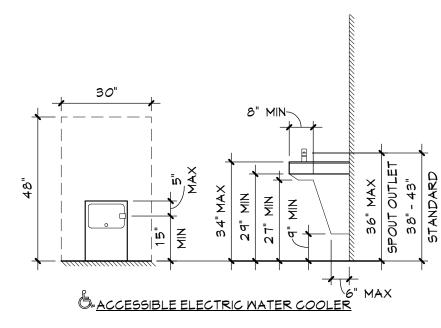
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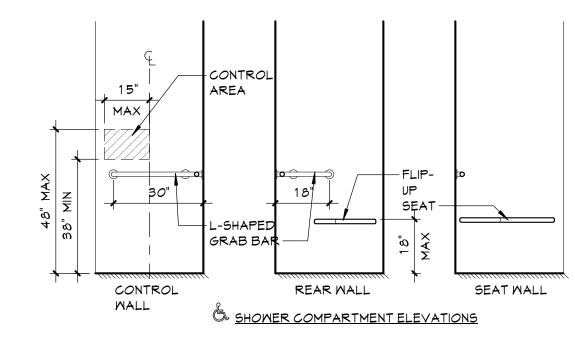


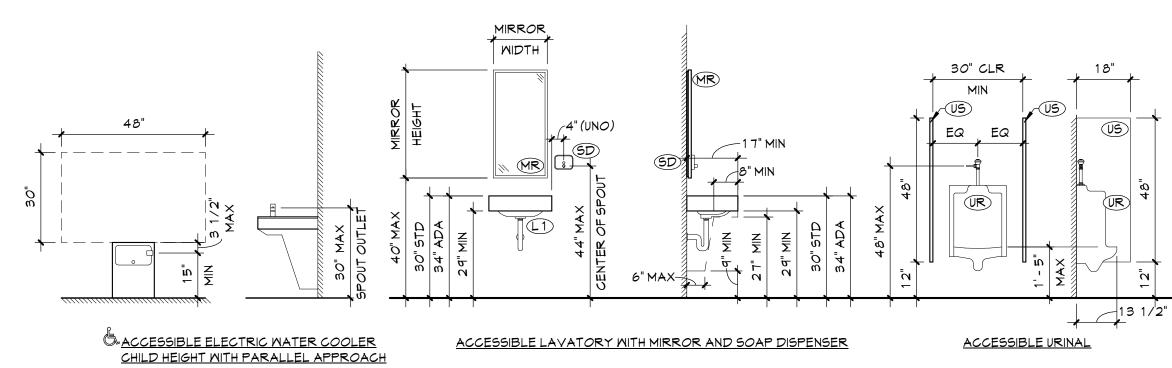






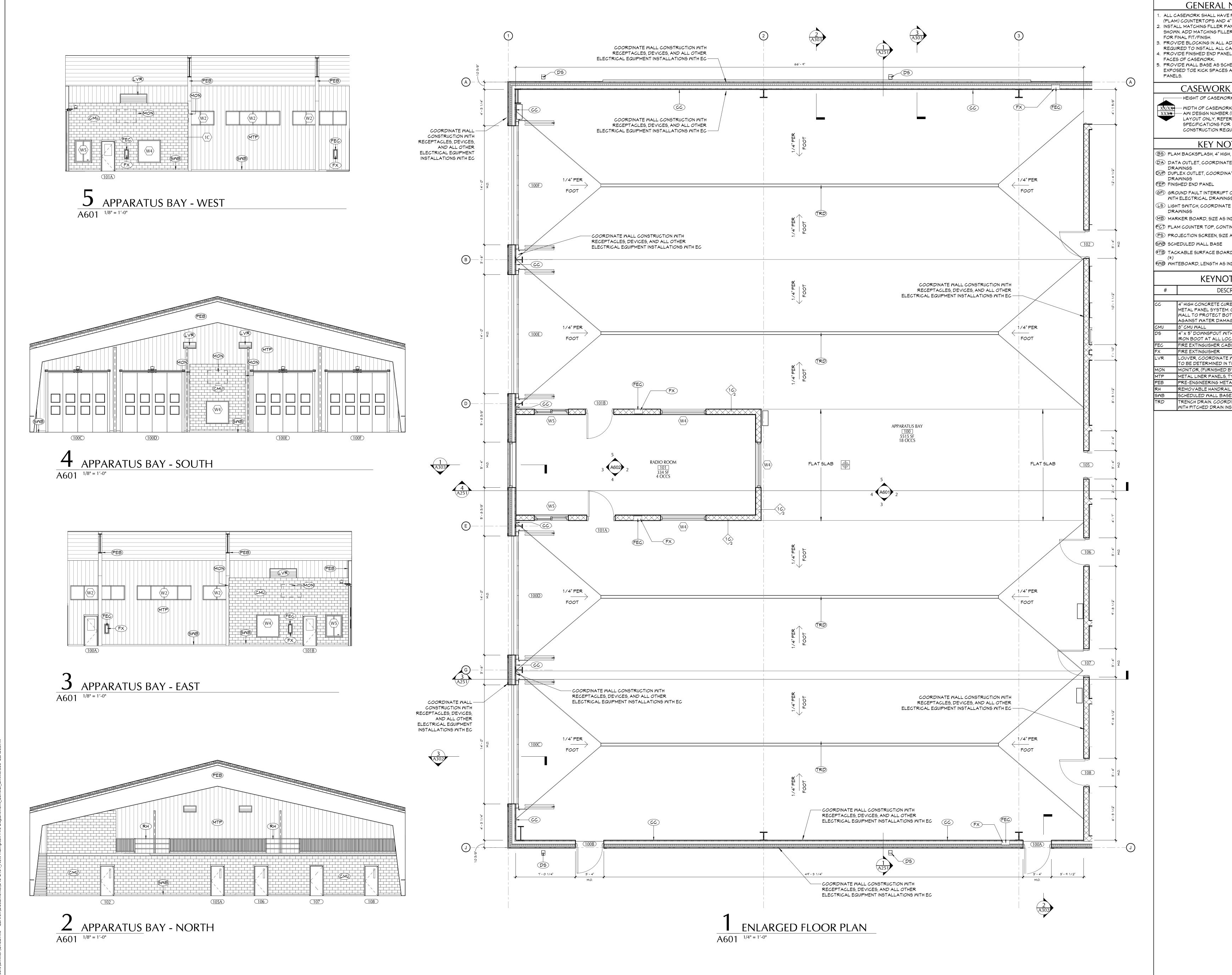




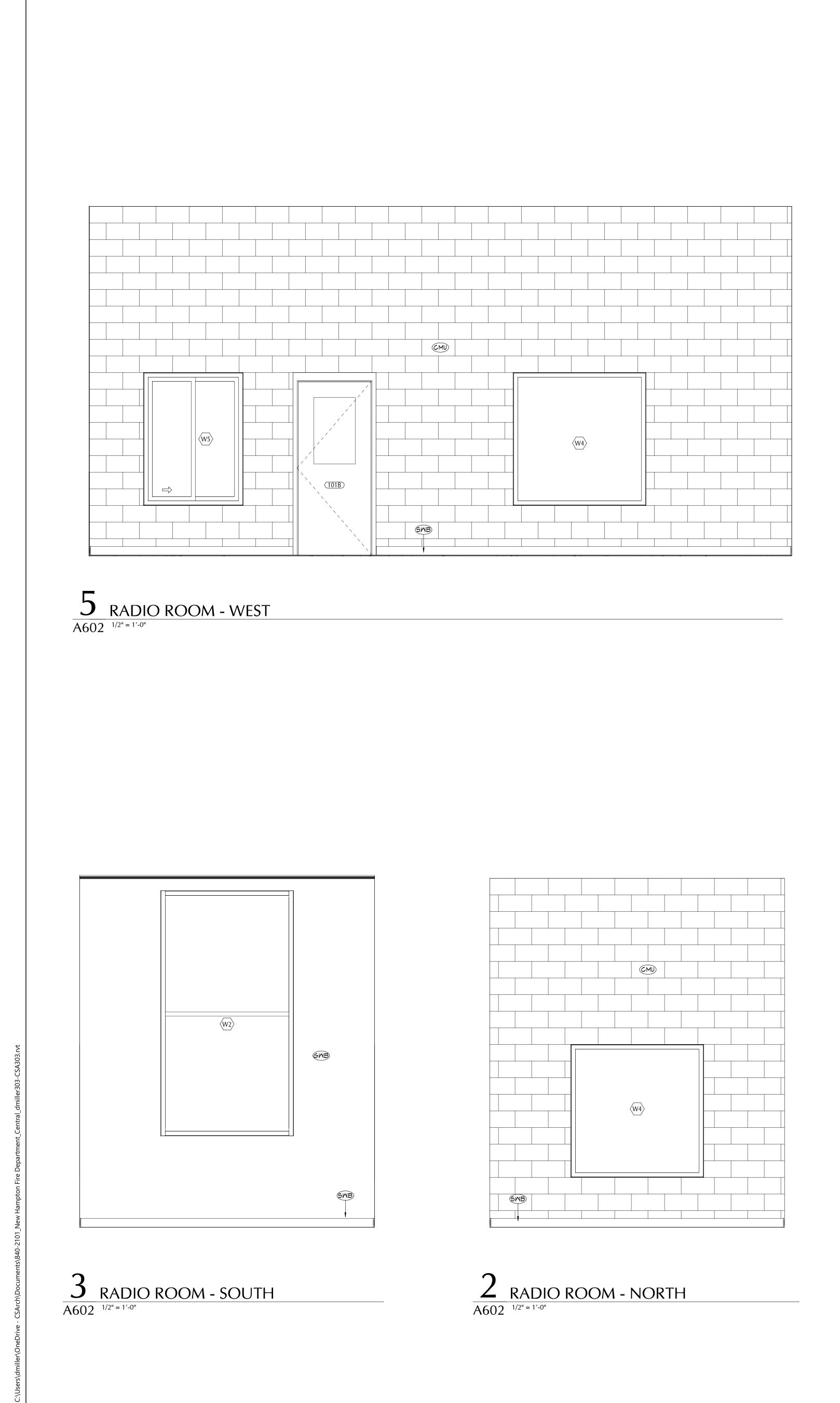


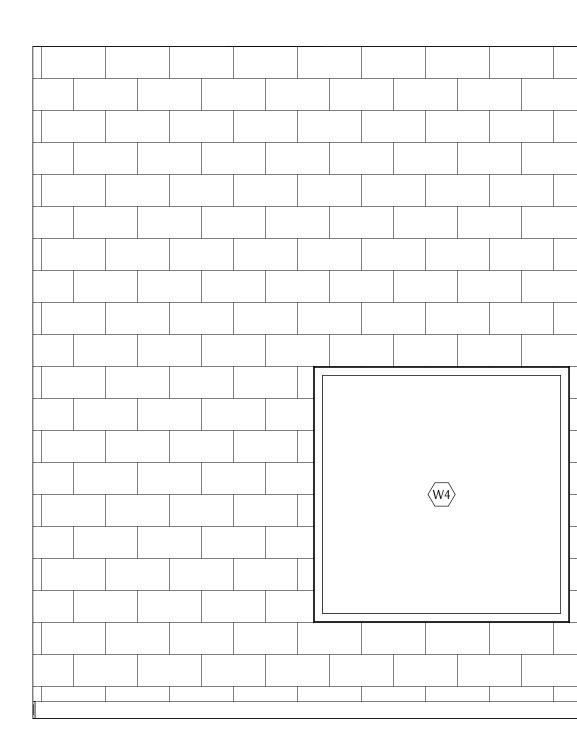
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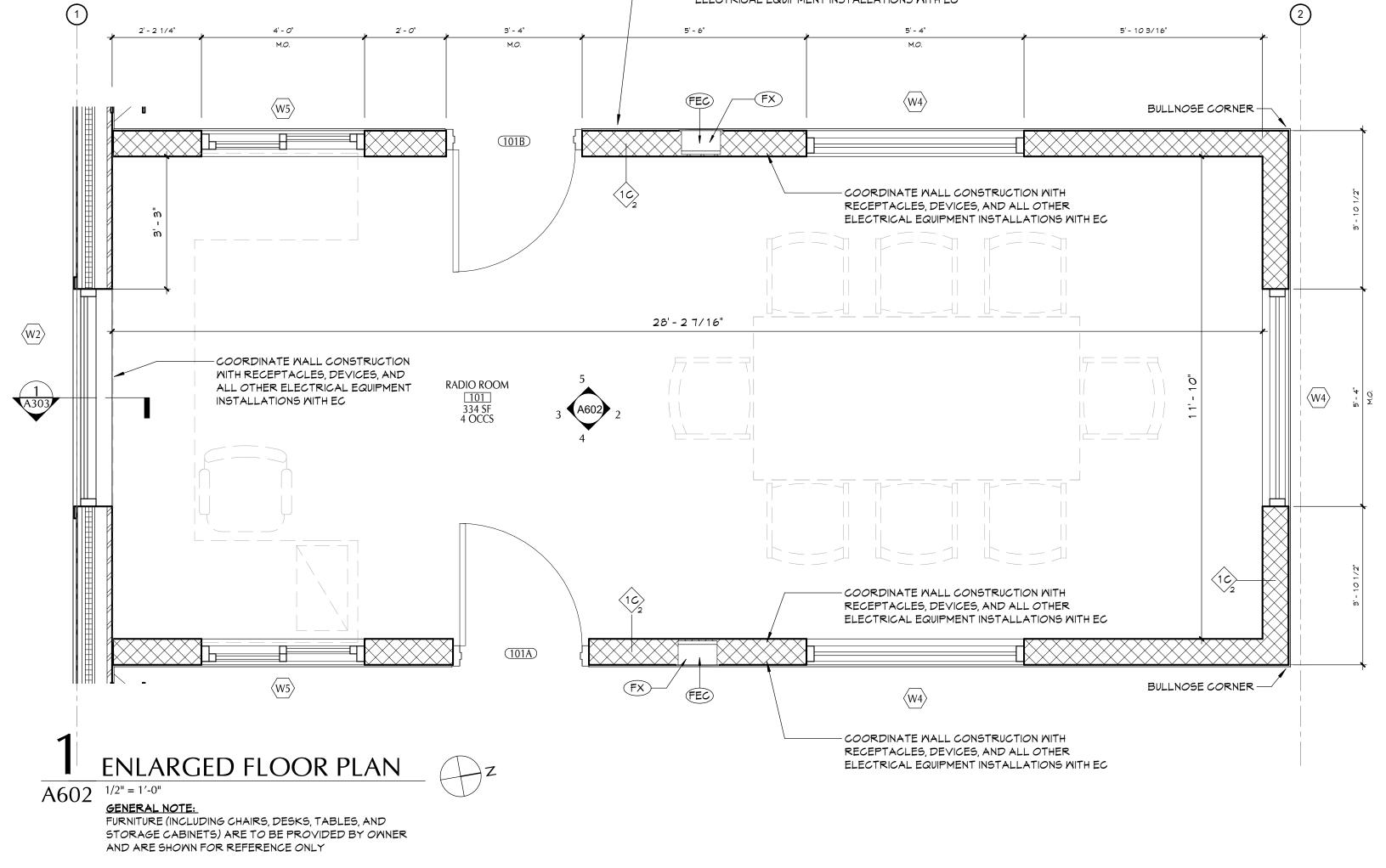


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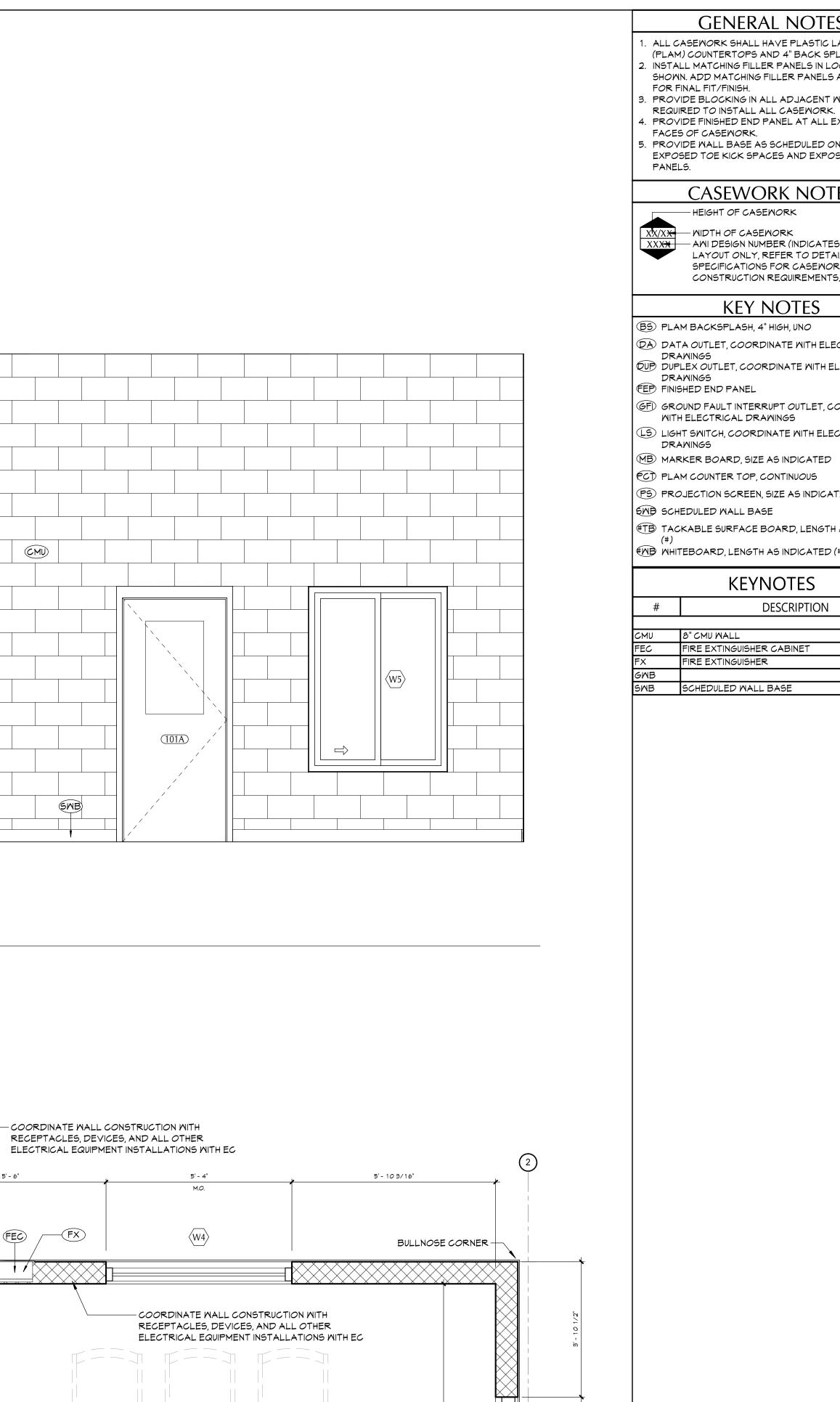






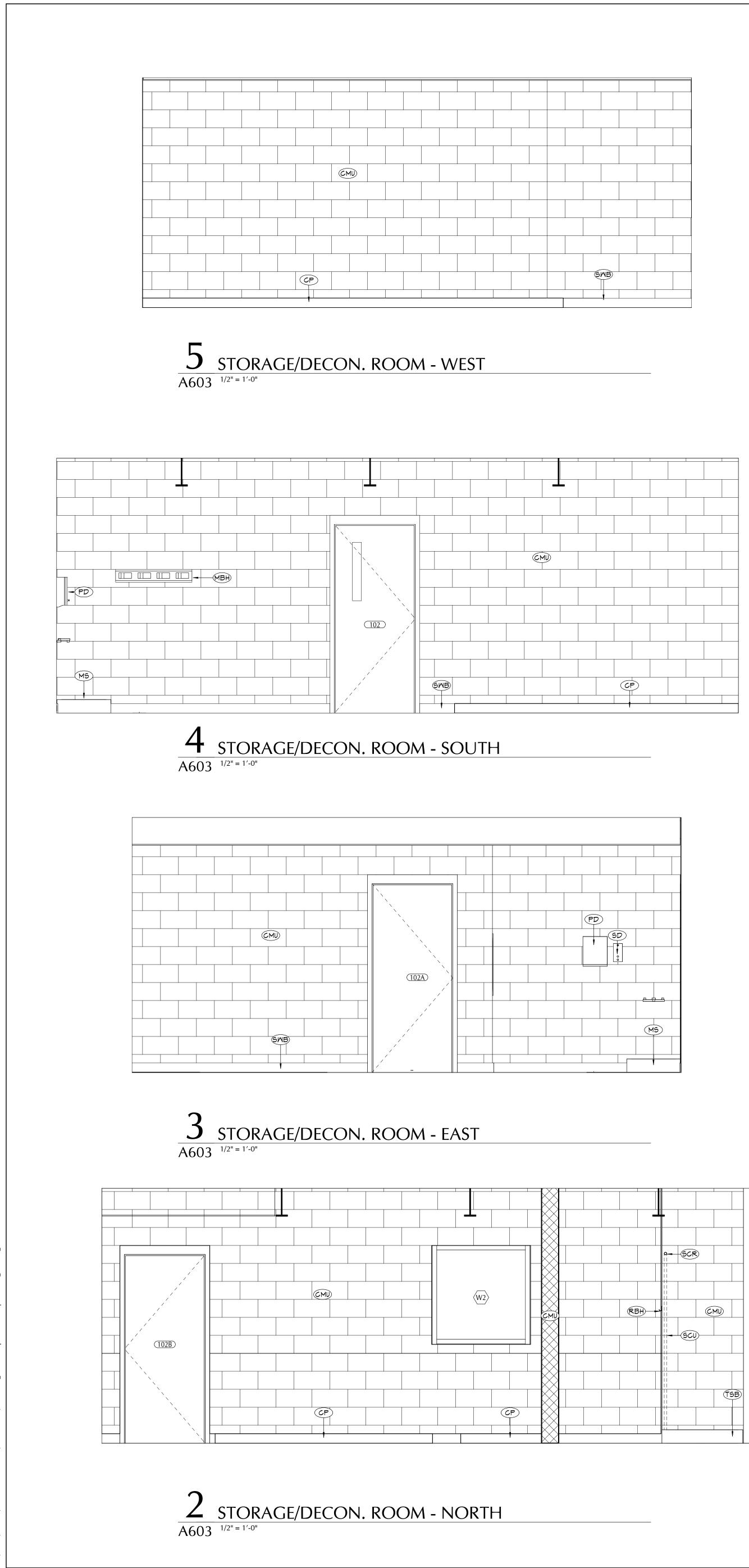


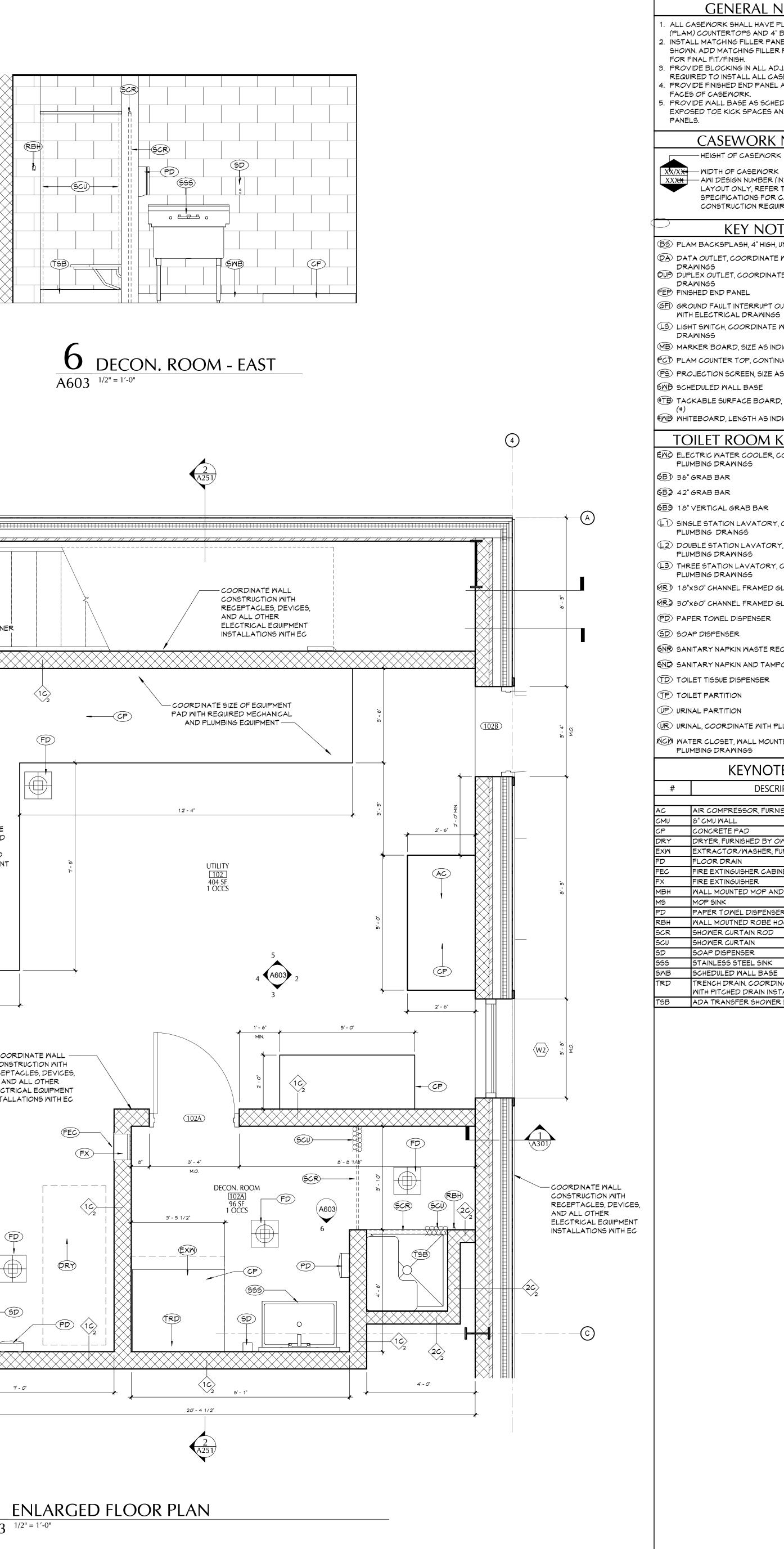
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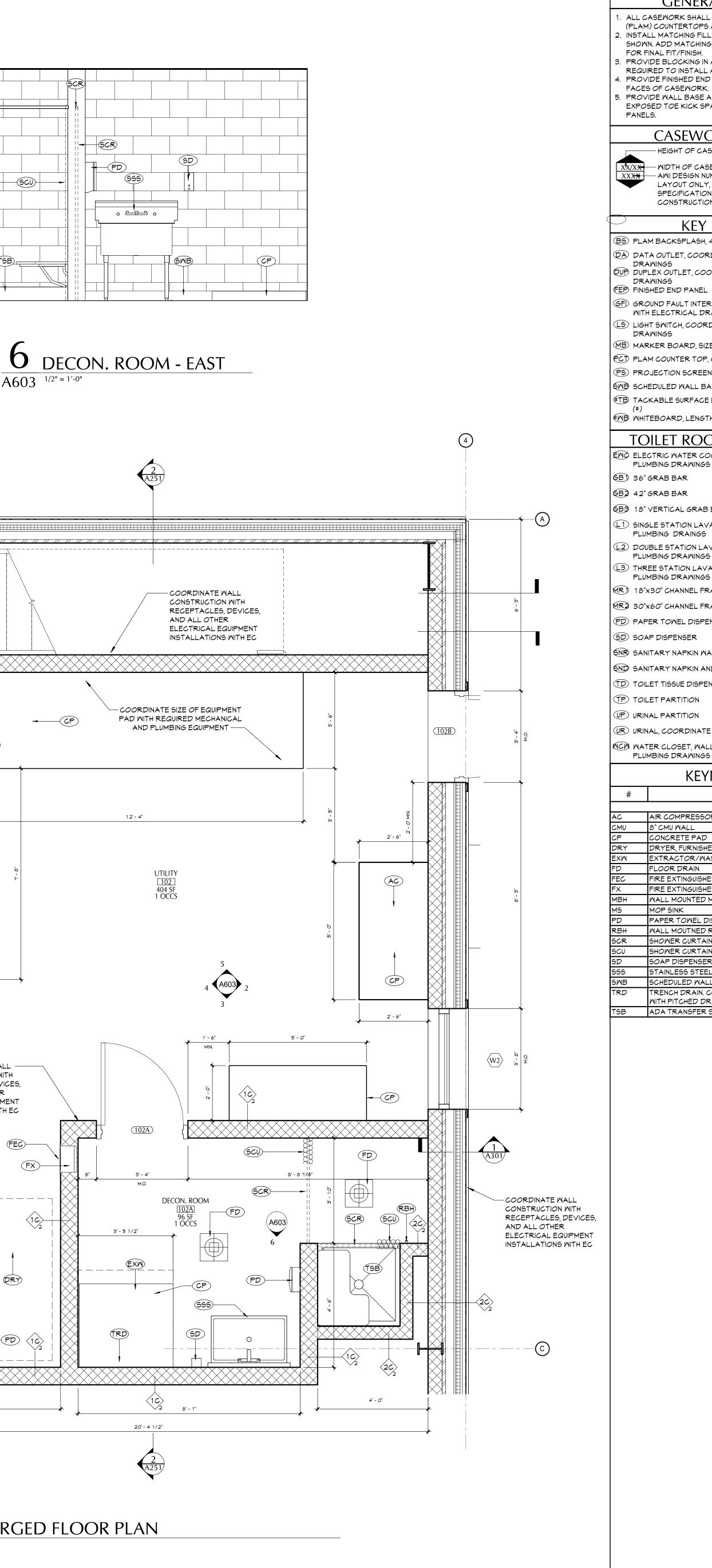


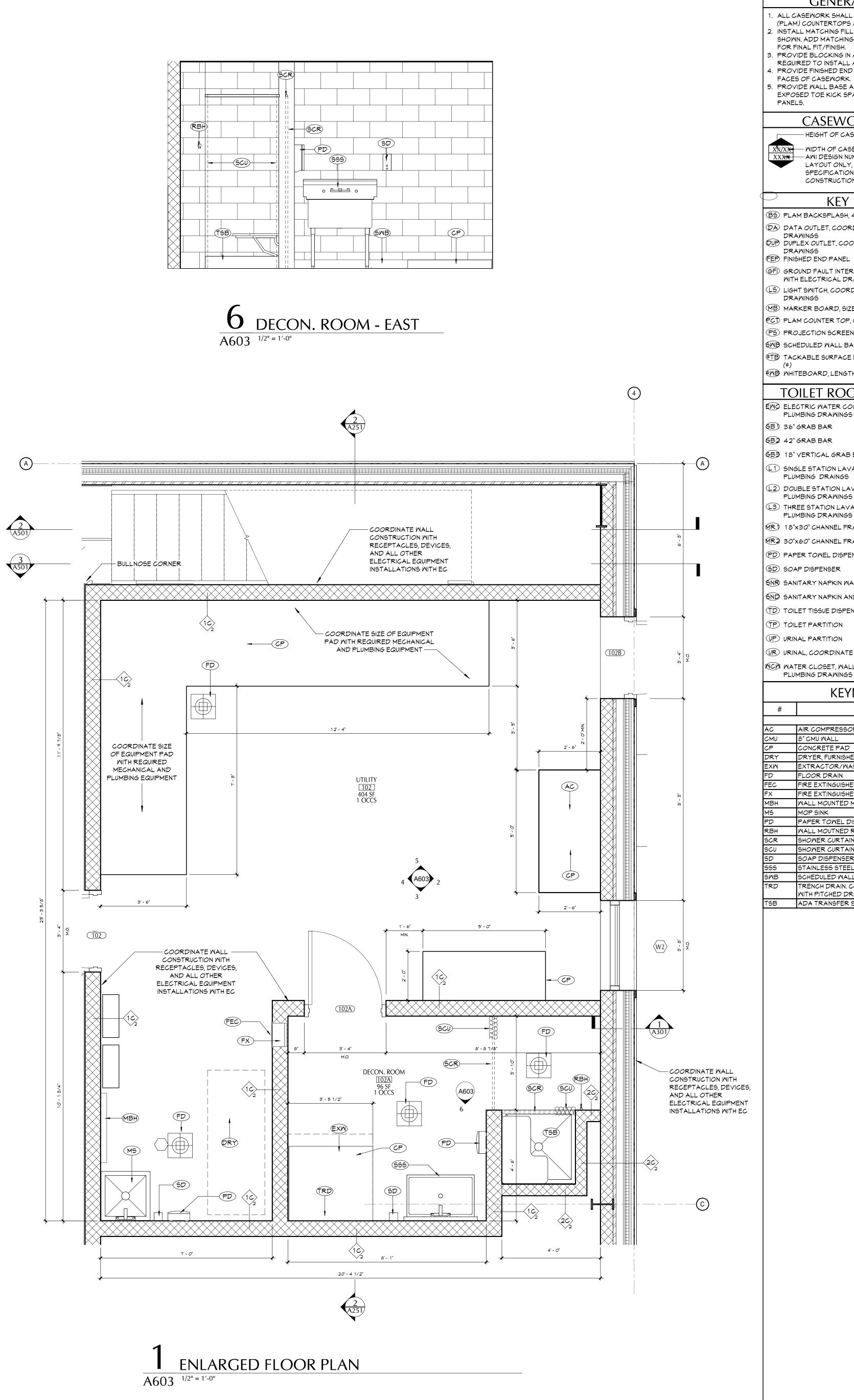
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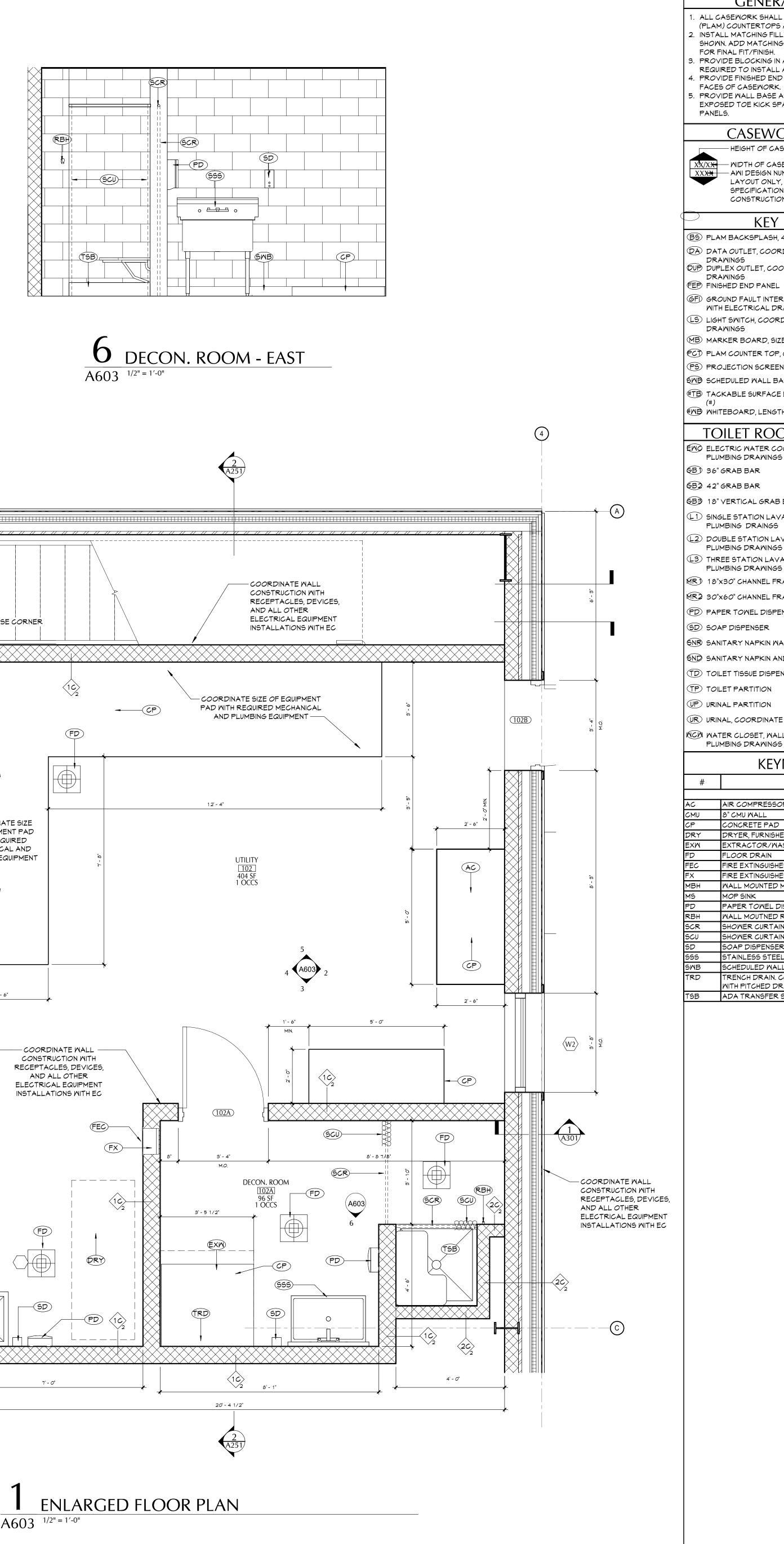
CONSTRUCTION DOCUMENTS



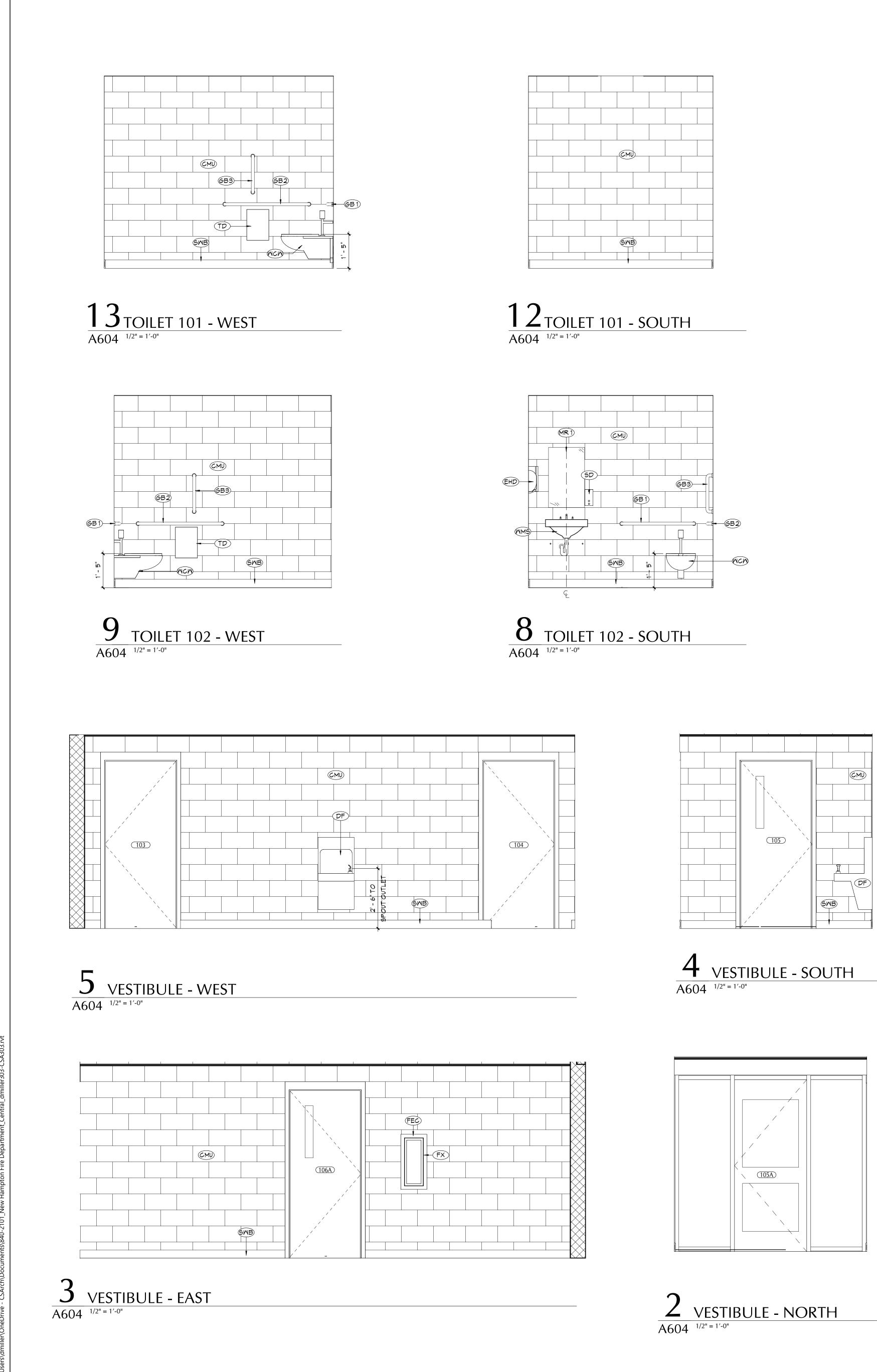


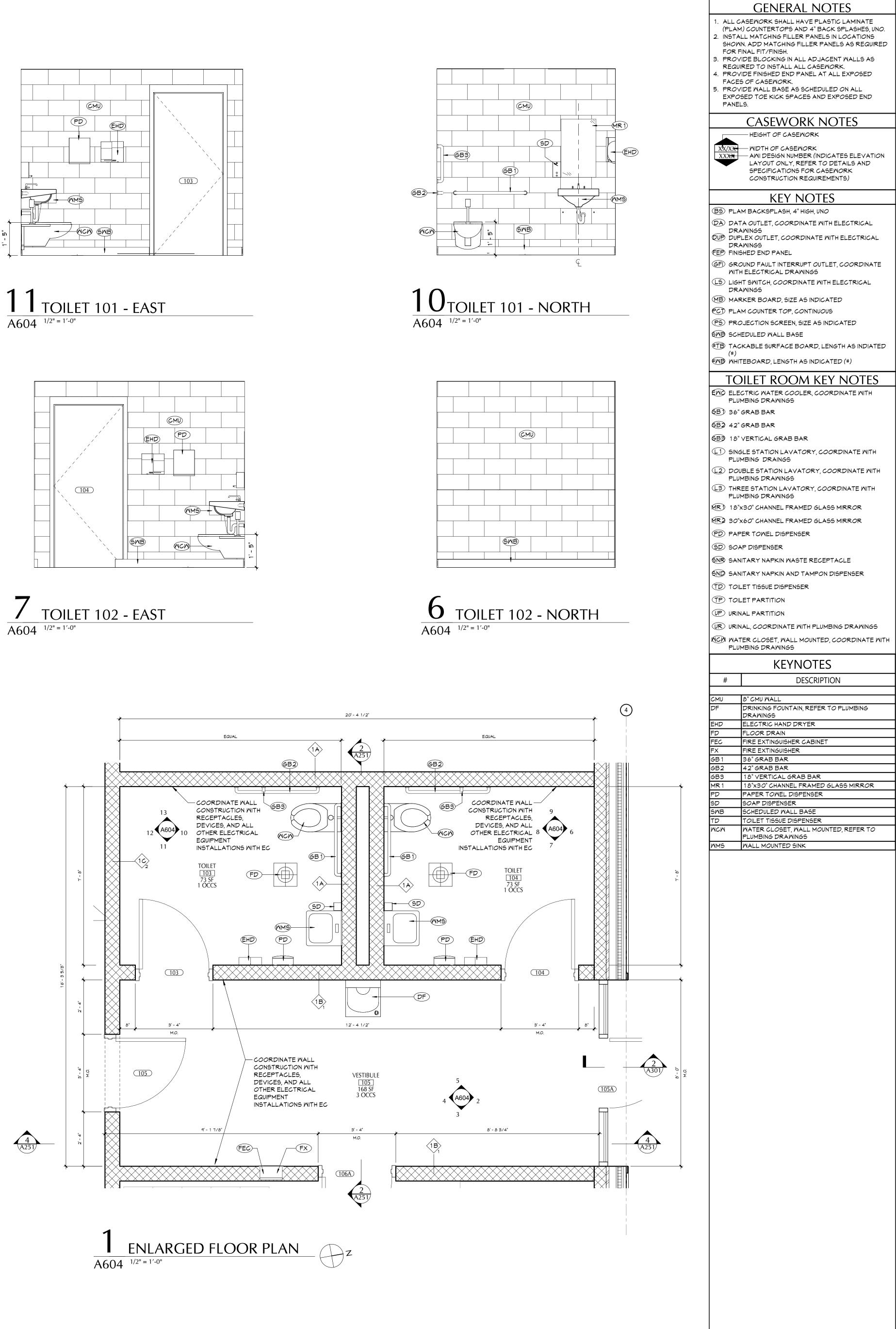


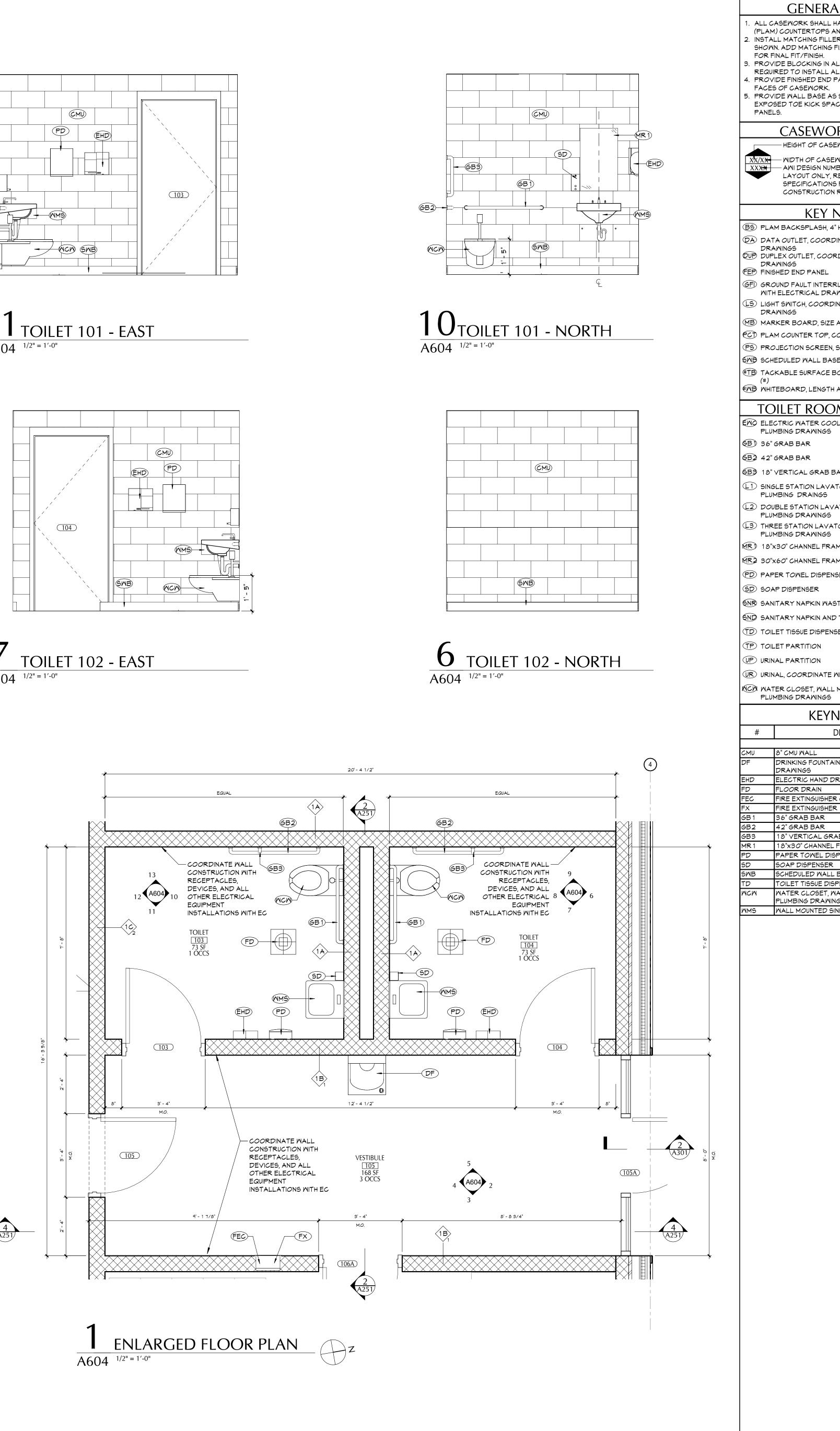




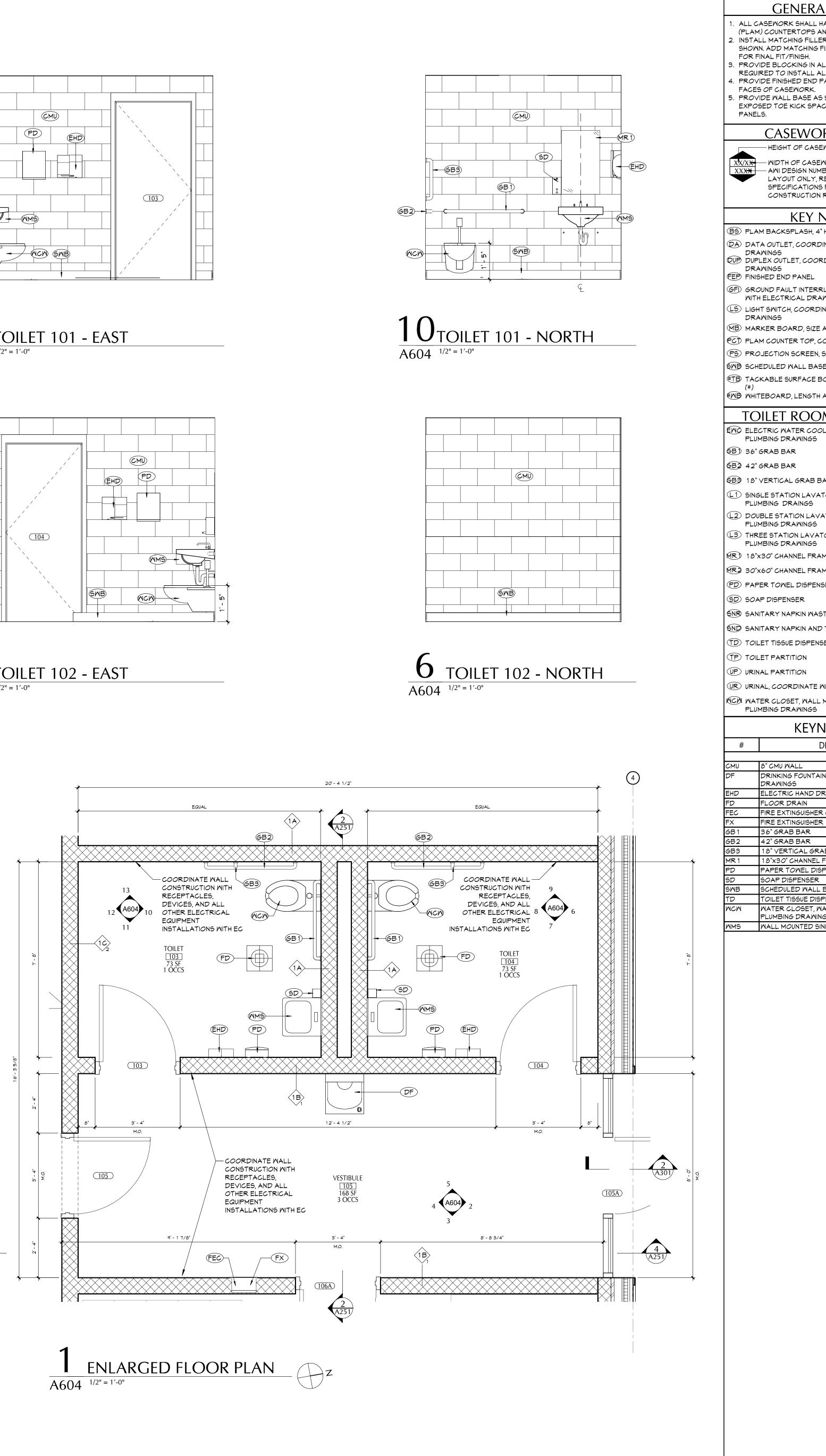
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ERRUPT OUTLET, COORDINATE RAWINGS RDINATE WITH ELECTRICAL IZE AS INDICATED P, CONTINUOUS EN, SIZE AS INDICATED BASE & BOARD, LENGTH AS INDIATED OTH AS INDICATED (#) OM KEY NOTES COOLER, COORDINATE WITH SOULER, COORDINATE WITH SOULER PLOED GLASS MIRROR PRAMED GLASS MIRROR PRAME PR	NEW HAMPTON FIRE DEPARTMENT NEW FIRE STATION 5024 STATE ROUTE 17M, NEW HAMPTON, NY 10958
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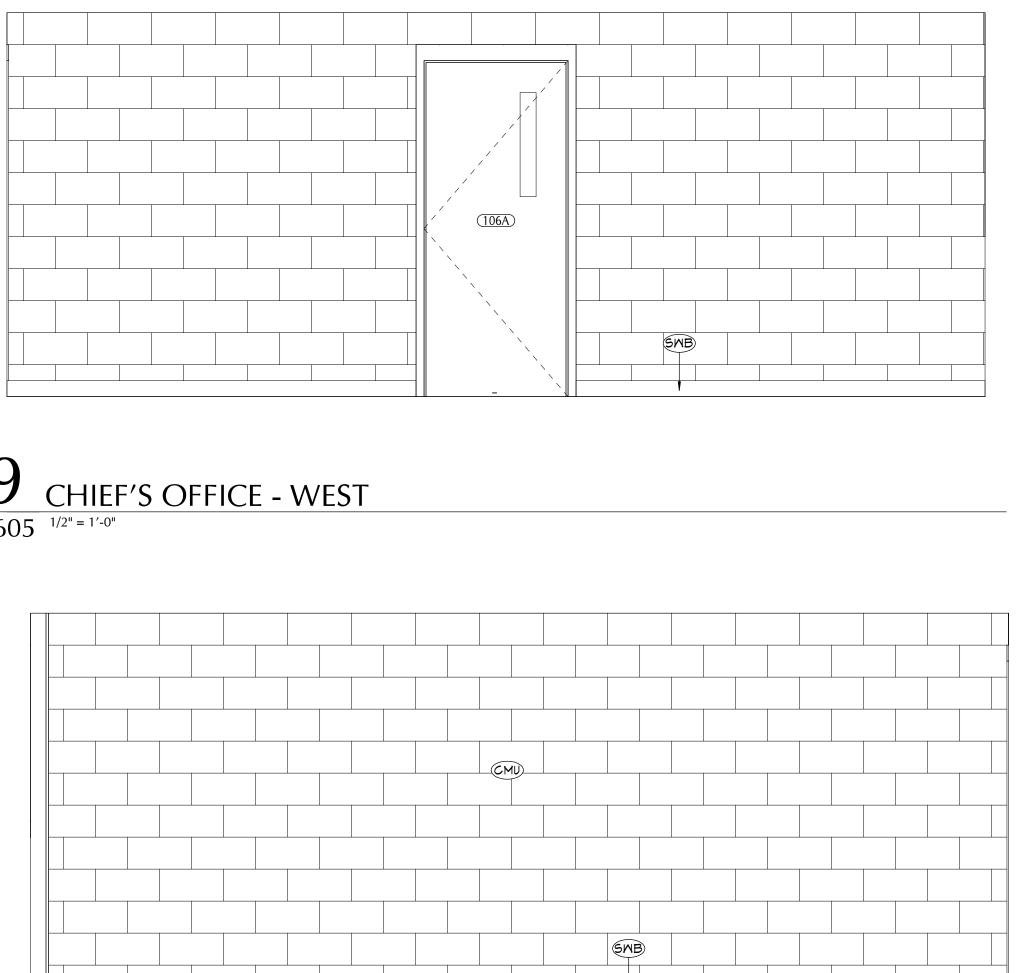




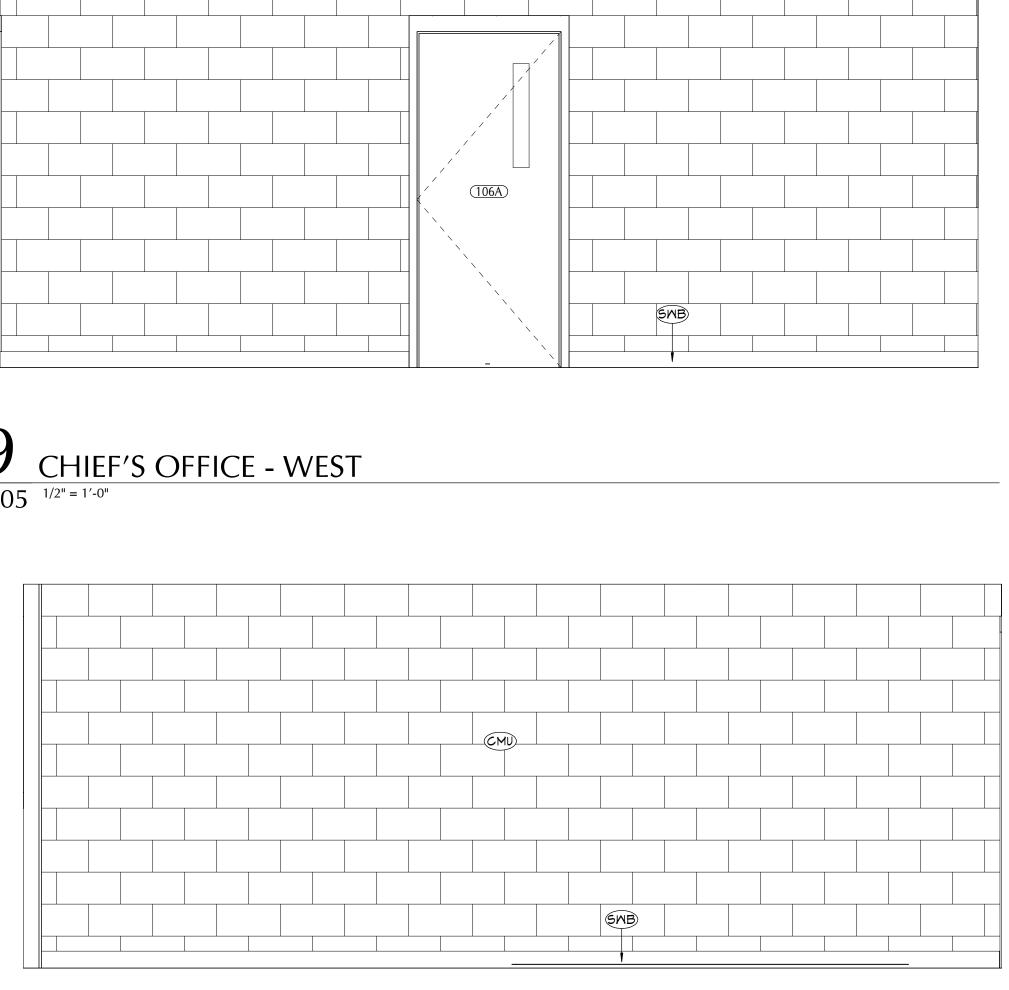








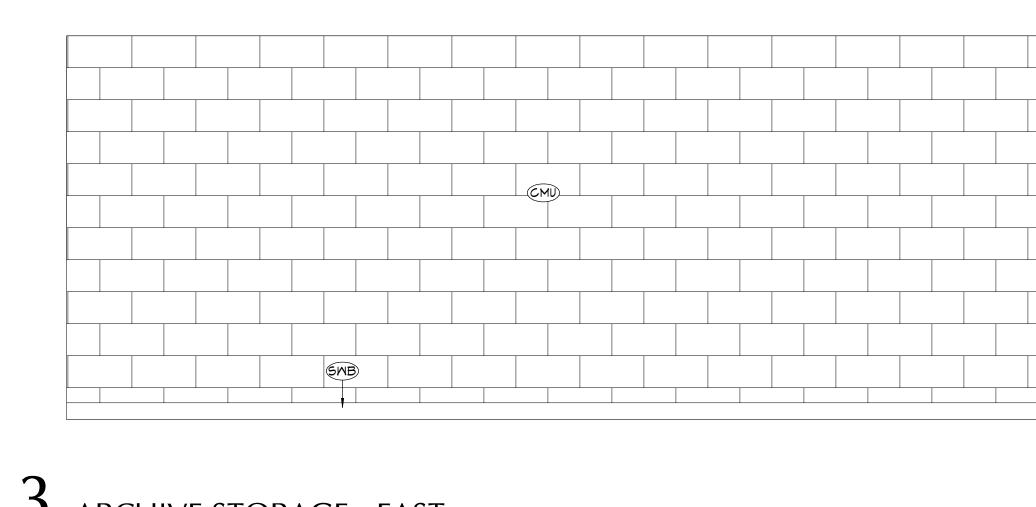




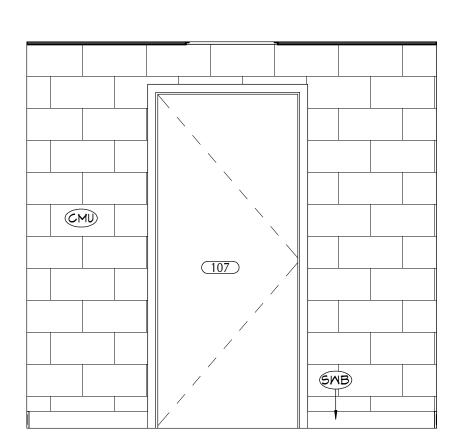


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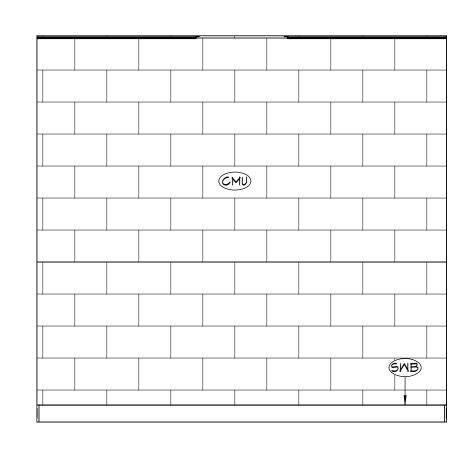




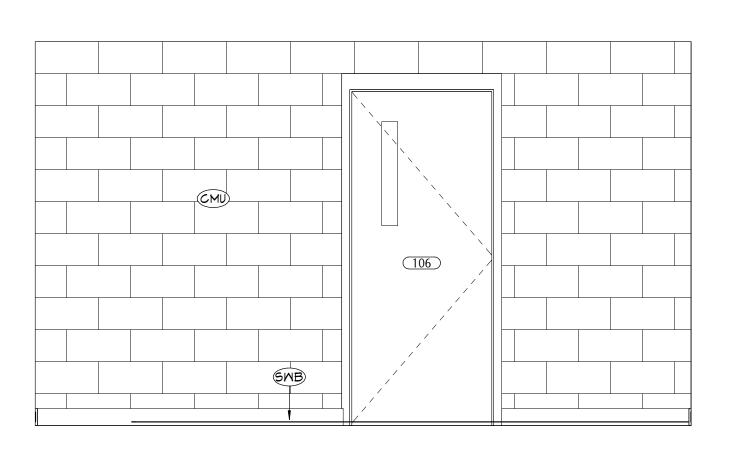
 $\mathbf{3}$  ARCHIVE STORAGE - EAST A605 <sup>1/2" = 1'-0"</sup>



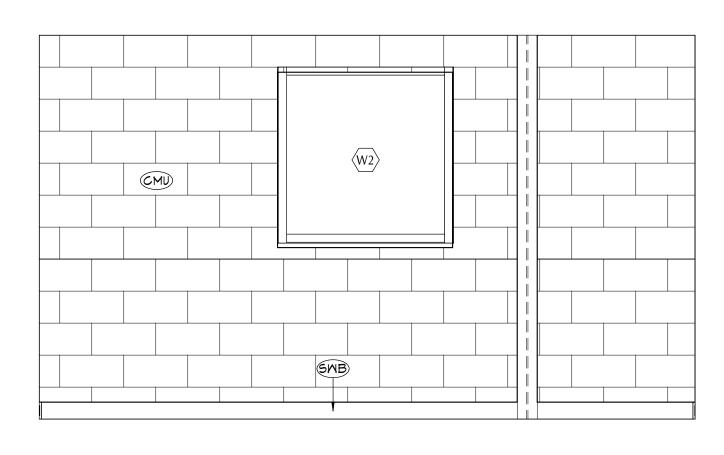
# 4 ARCHIVE STORAGE - SOUTH A605 <sup>1/2" = 1'-0"</sup>



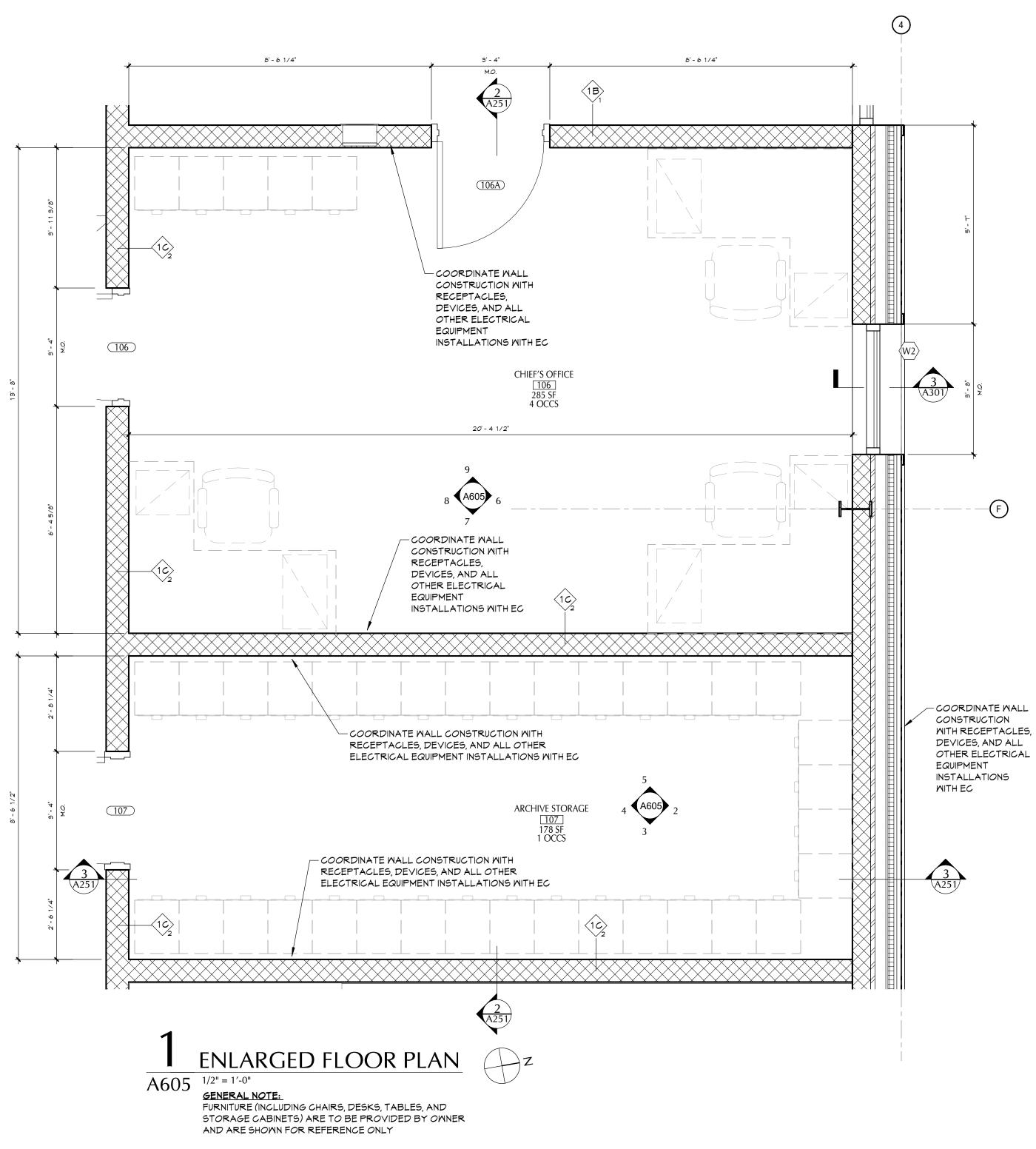


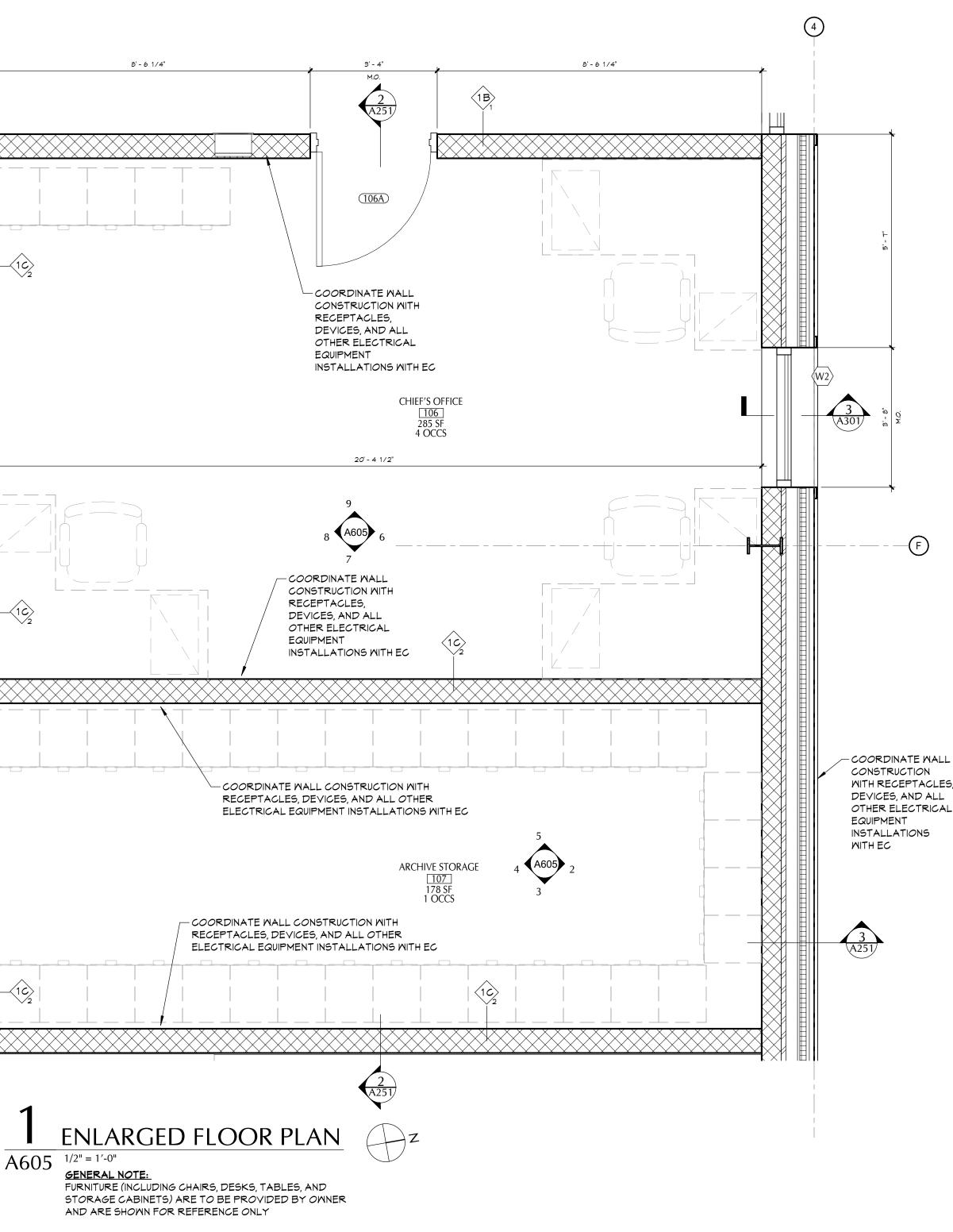


 $\frac{8}{A605} \frac{\text{CHIEF'S OFFICE - SOUTH}}{1/2'' = 1'-0''}$ 



 $\frac{6}{A605} \frac{\text{CHIEF'S OFFICE - NORTH}}{1/2" = 1'-0"}$ 





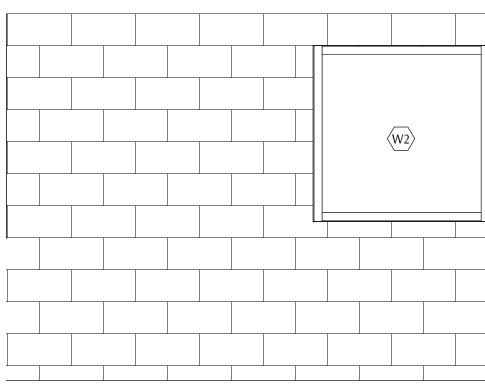
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	KEYNOTE	:5
#	DESCRIP	۲
CMU	8" CMU WALL	
SMB	SCHEDULED WALL BASE	

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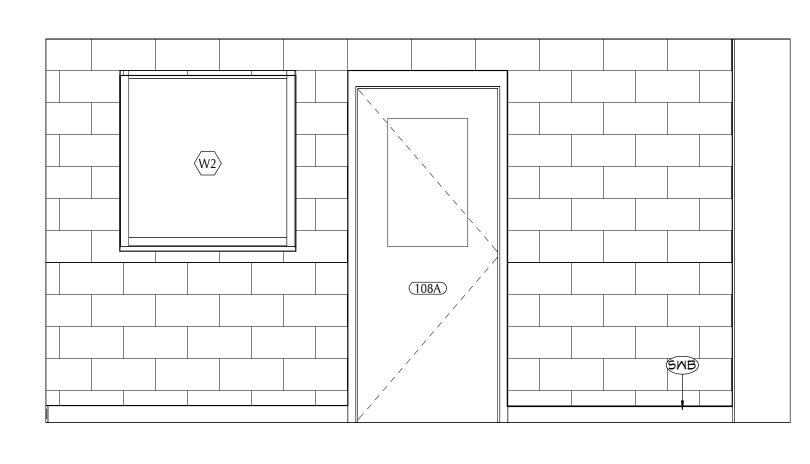
COPYRIGHT © ALL RIGHTS RESERVED CONSTRUCTION DOCUMENTS

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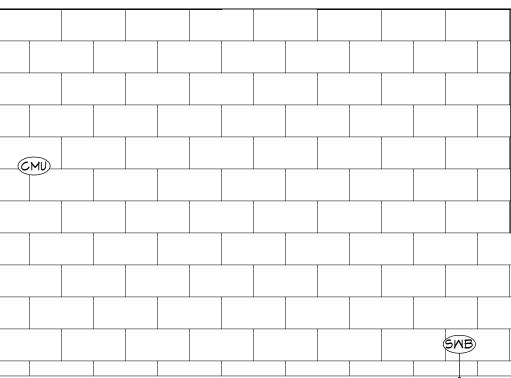




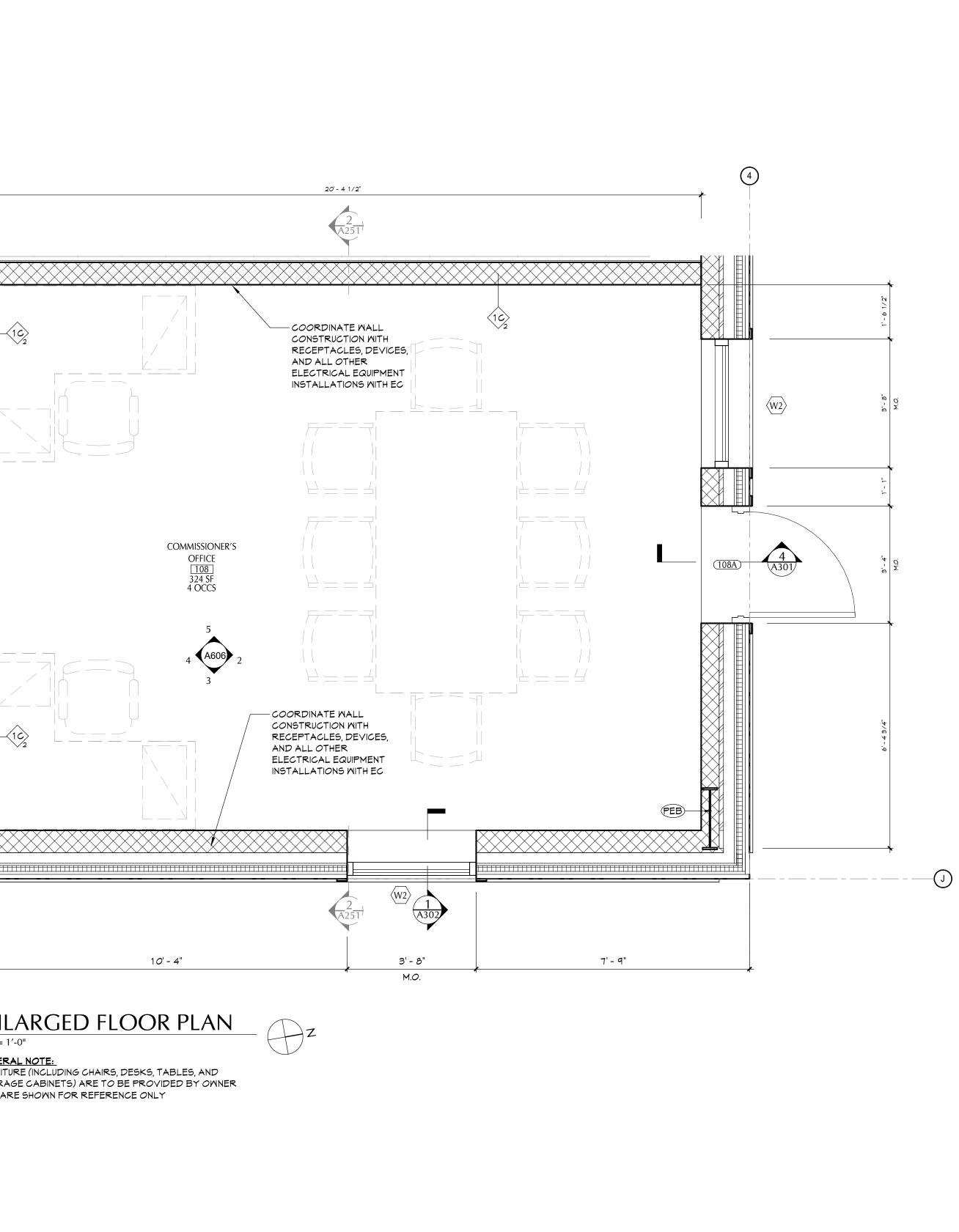


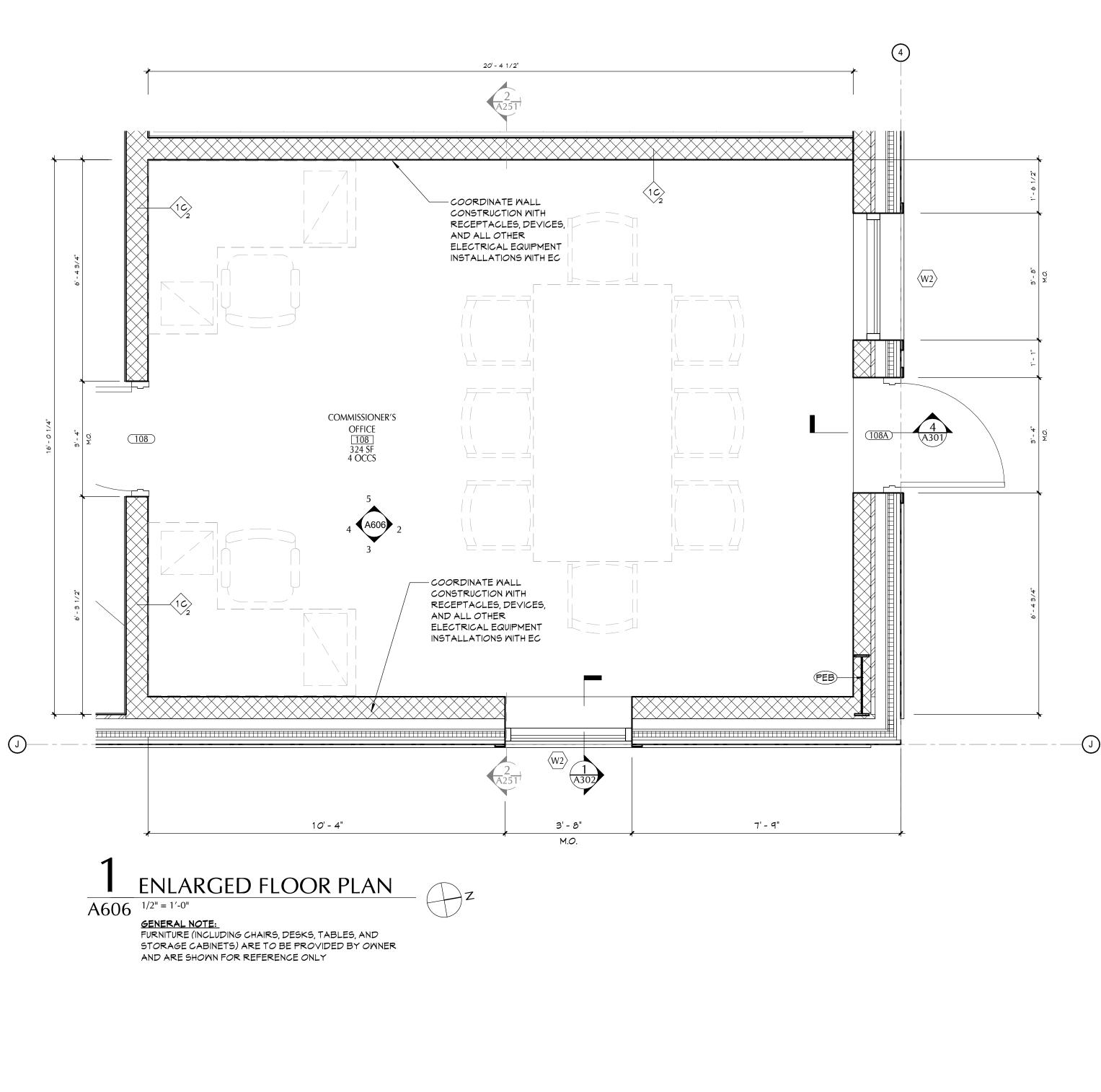


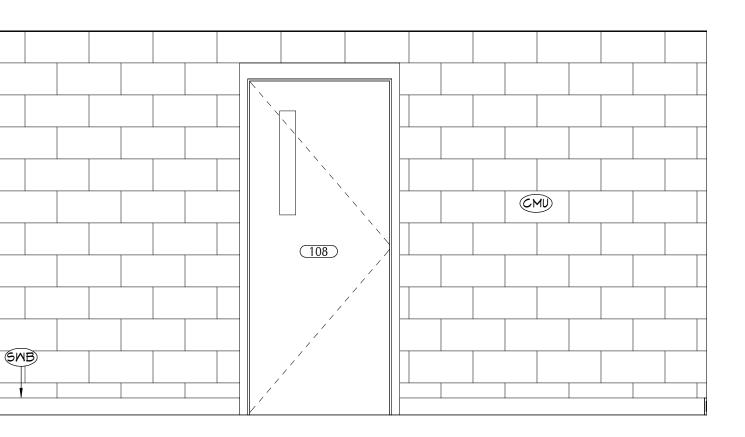




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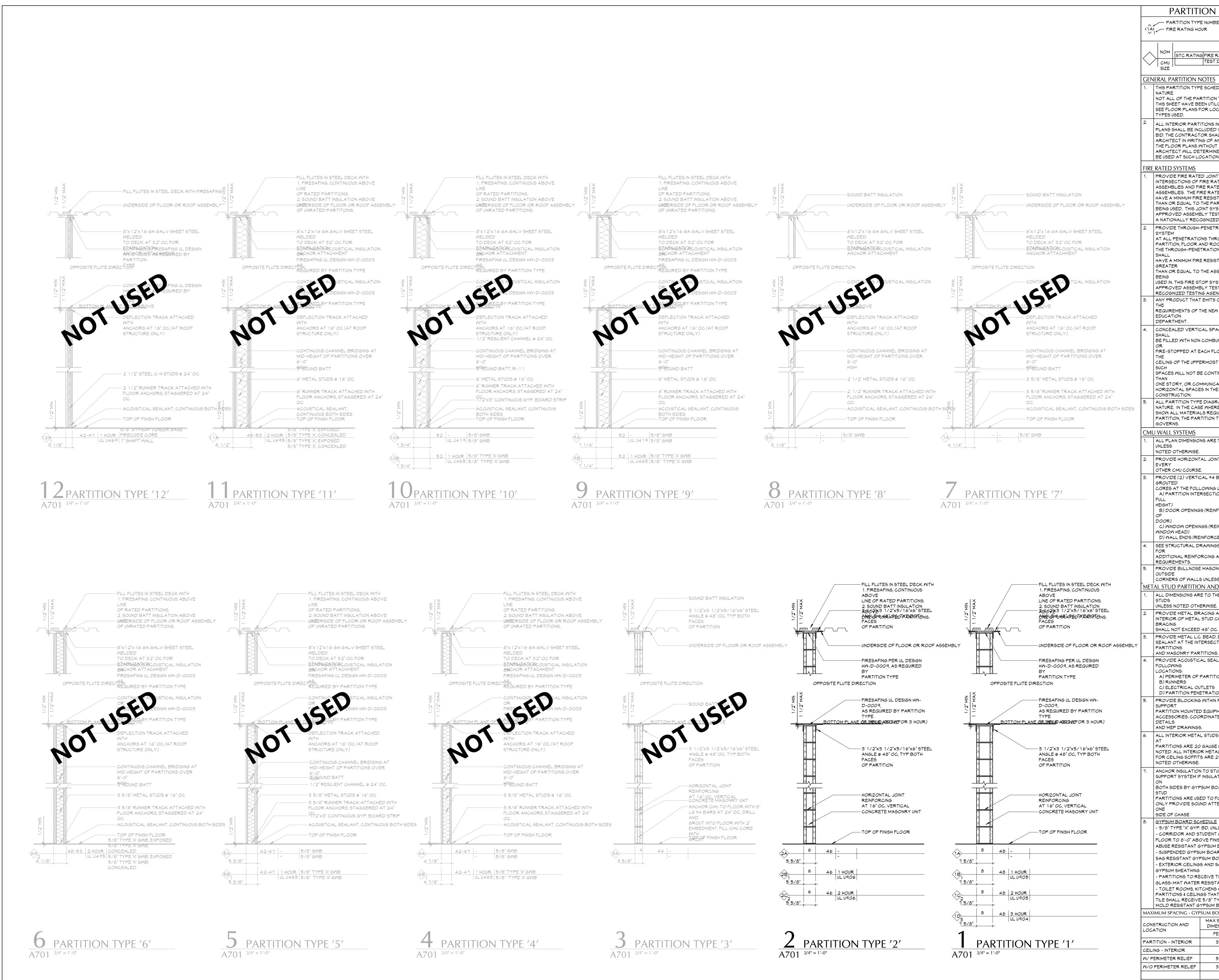


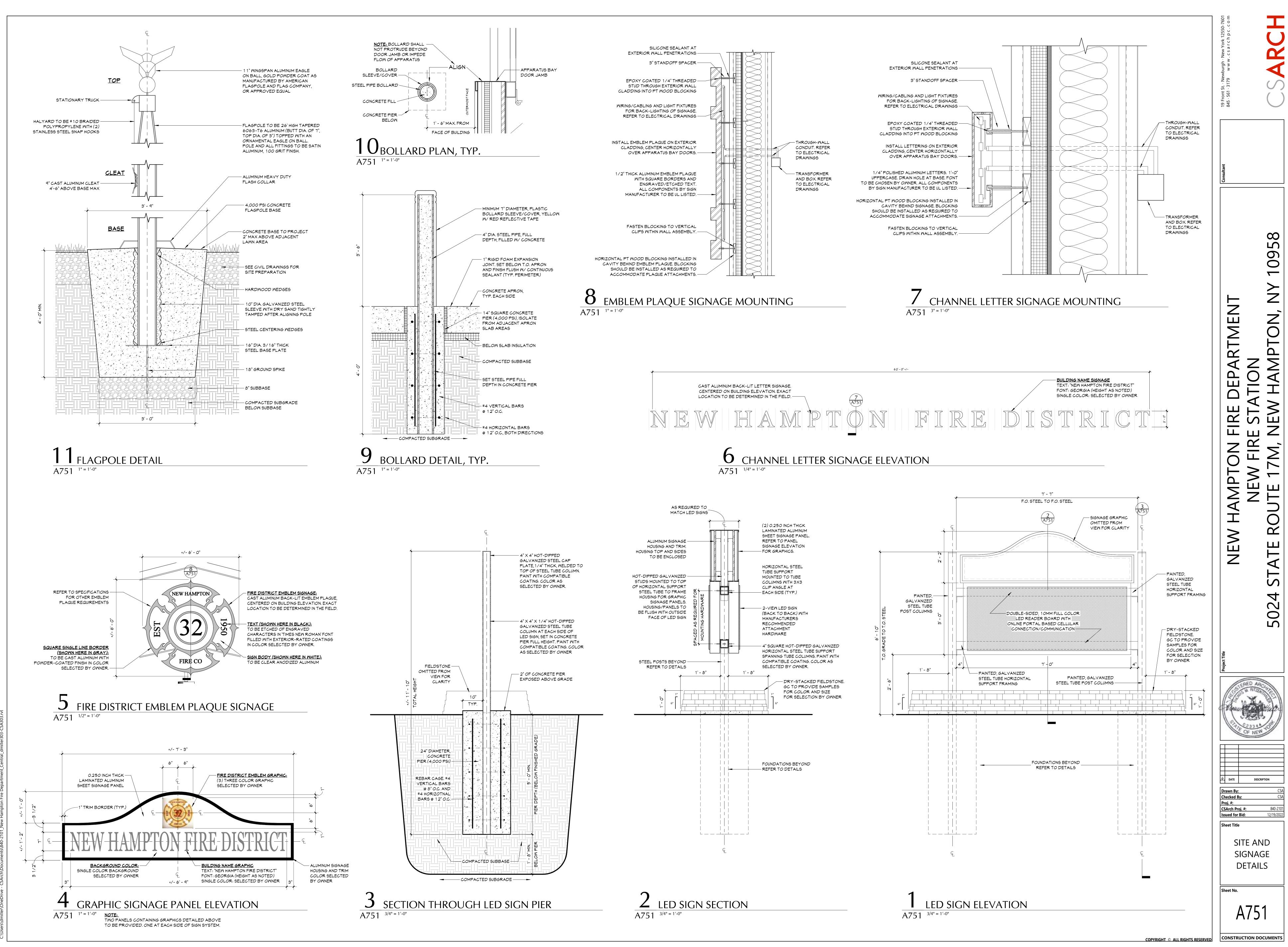


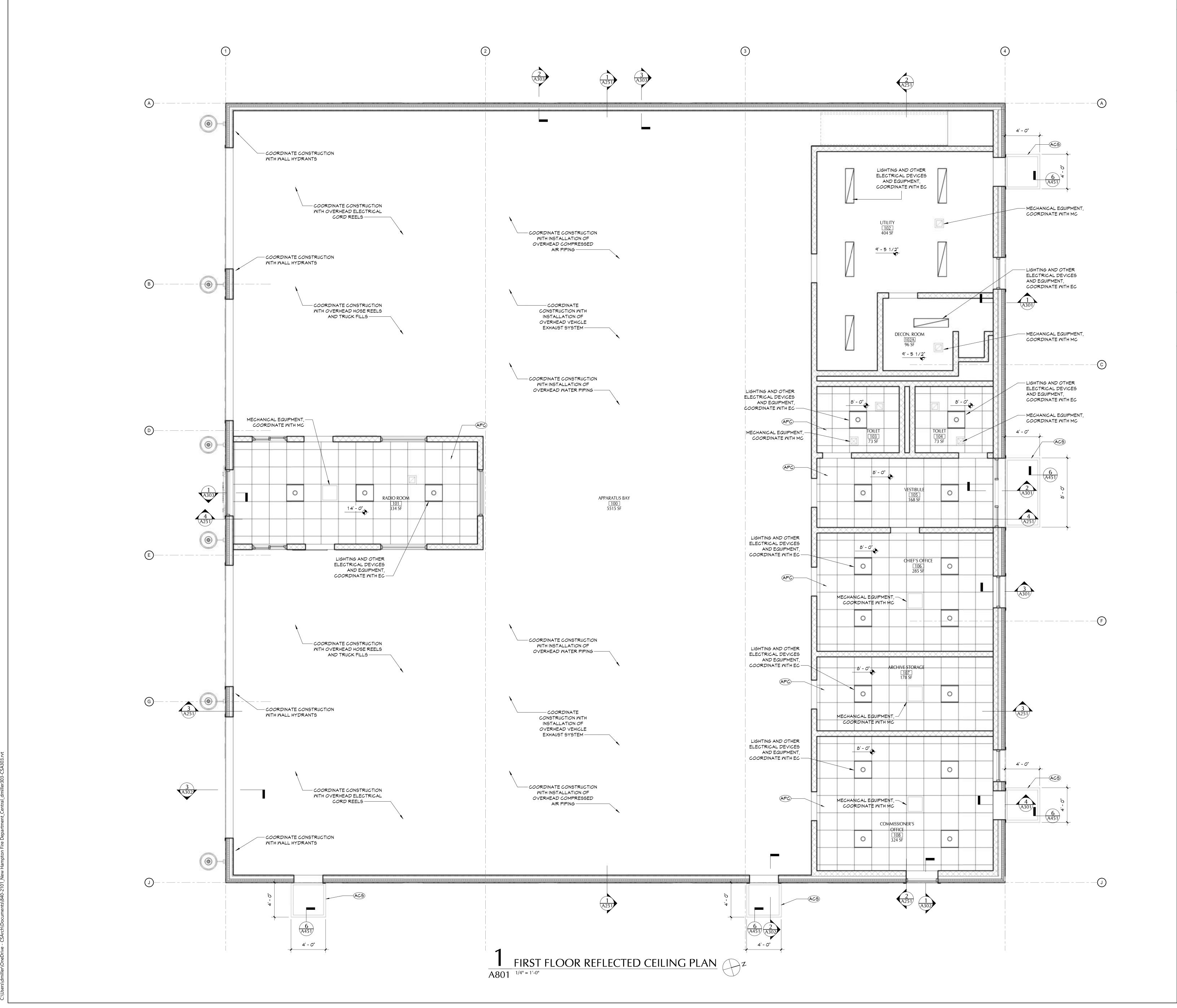
## 4 COMMISSIONER'S OFFICE - SOUTH A606 <sup>1/2" = 1'-0"</sup>

	GENERAL NO
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	KEYNOTE
#	DESCRIP
CMU	8" CMU WALL
PEB	PRE-ENGINEERING METAL E
BMB	SCHEDULED WALL BASE

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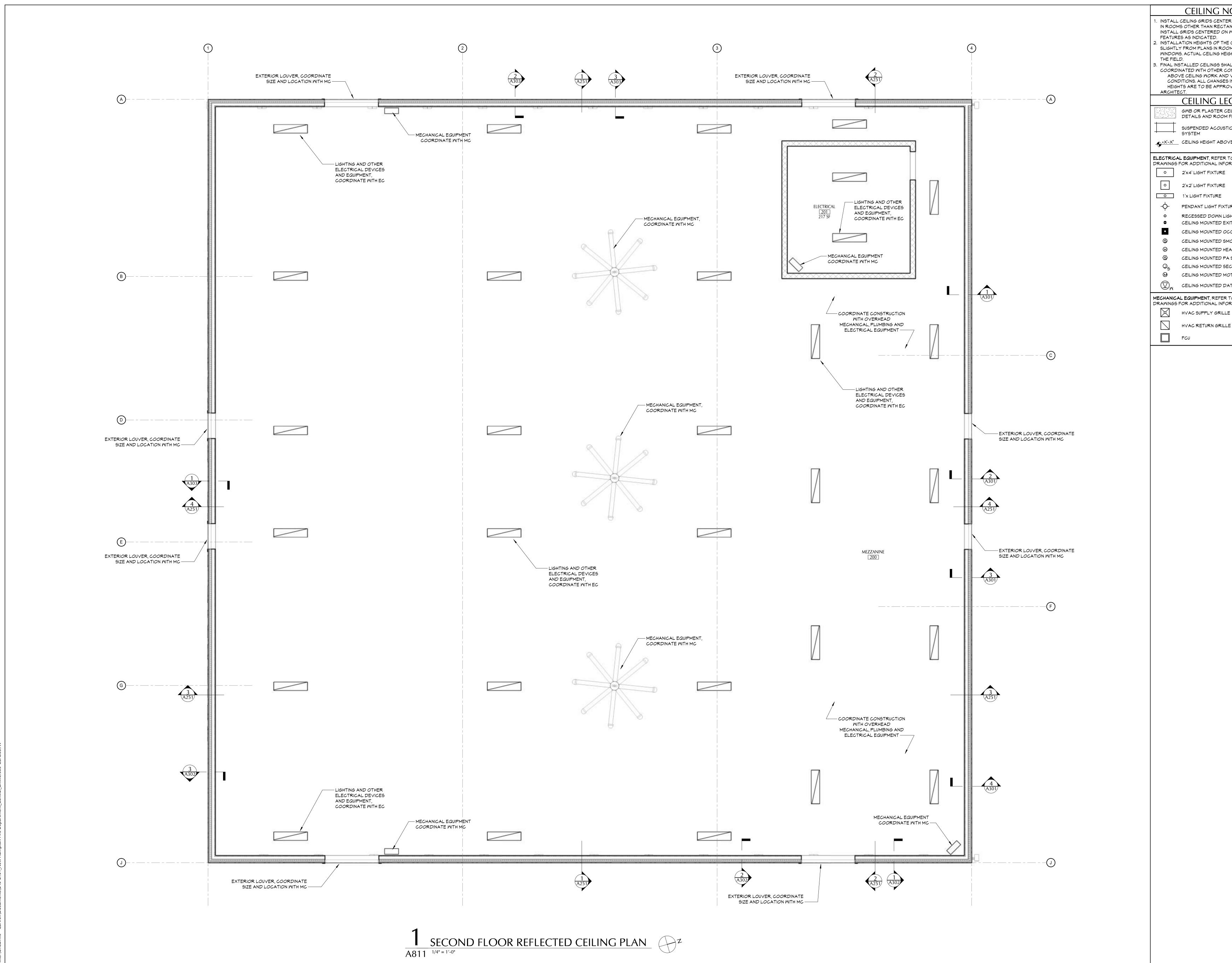






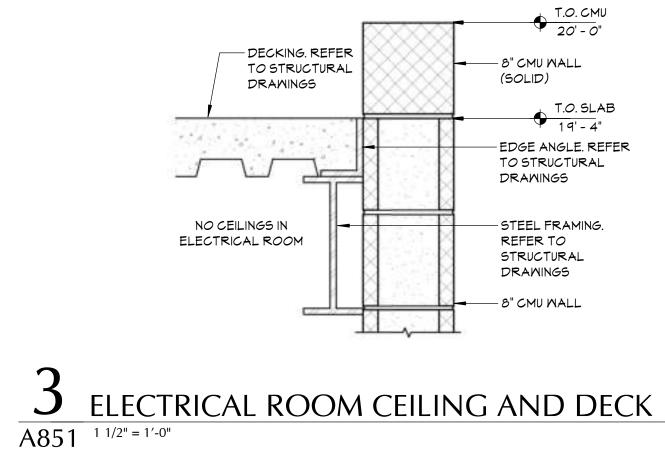
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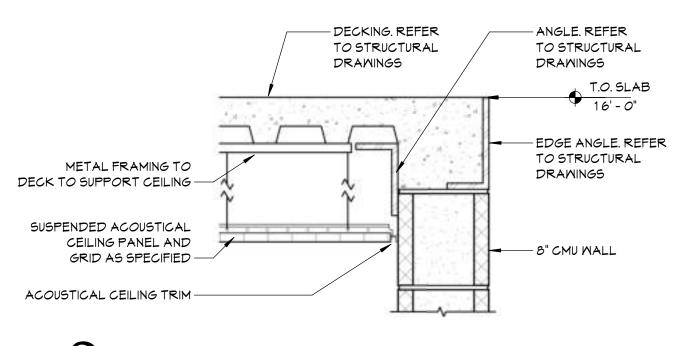




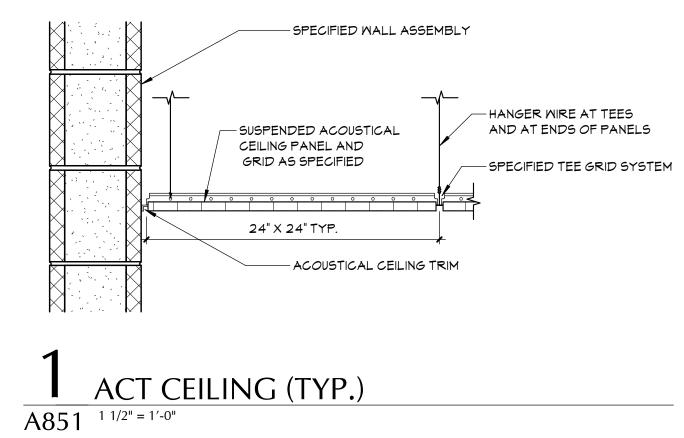
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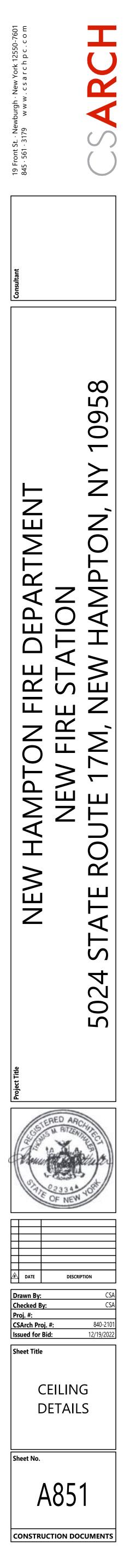
SCENTERED IN THE ROOM, UNO. N RECTANGULAR SHAPED, RED ON WALLS OR OTHER BUILT ED. SOF THE CEILINGS MAY VARY SIN ROOMS WITH EXTERIOR LING HEIGHT TO BE VERIFIED IN INGS SHALL HAVE HEIGHTS OTHER CONTRACTORS WITH ORK AND VERIFIED WITH FIELD HANGES IN CONFIGURATION OR E APPROVED BY THE <b>GLEGEND</b> ASTER CEILING, REFER TO D ROOM FINISH SCHEDULE ACOUSTICAL PANEL CEILING	19 Front St. Newburgh. New York 12550-7601 845 · 561 · 3179 www.csarchpc.com
HT ABOVE FINISHED FLOOR REFER TO ELECTRICAL NAL INFORMATION. IXTURE	Consultant
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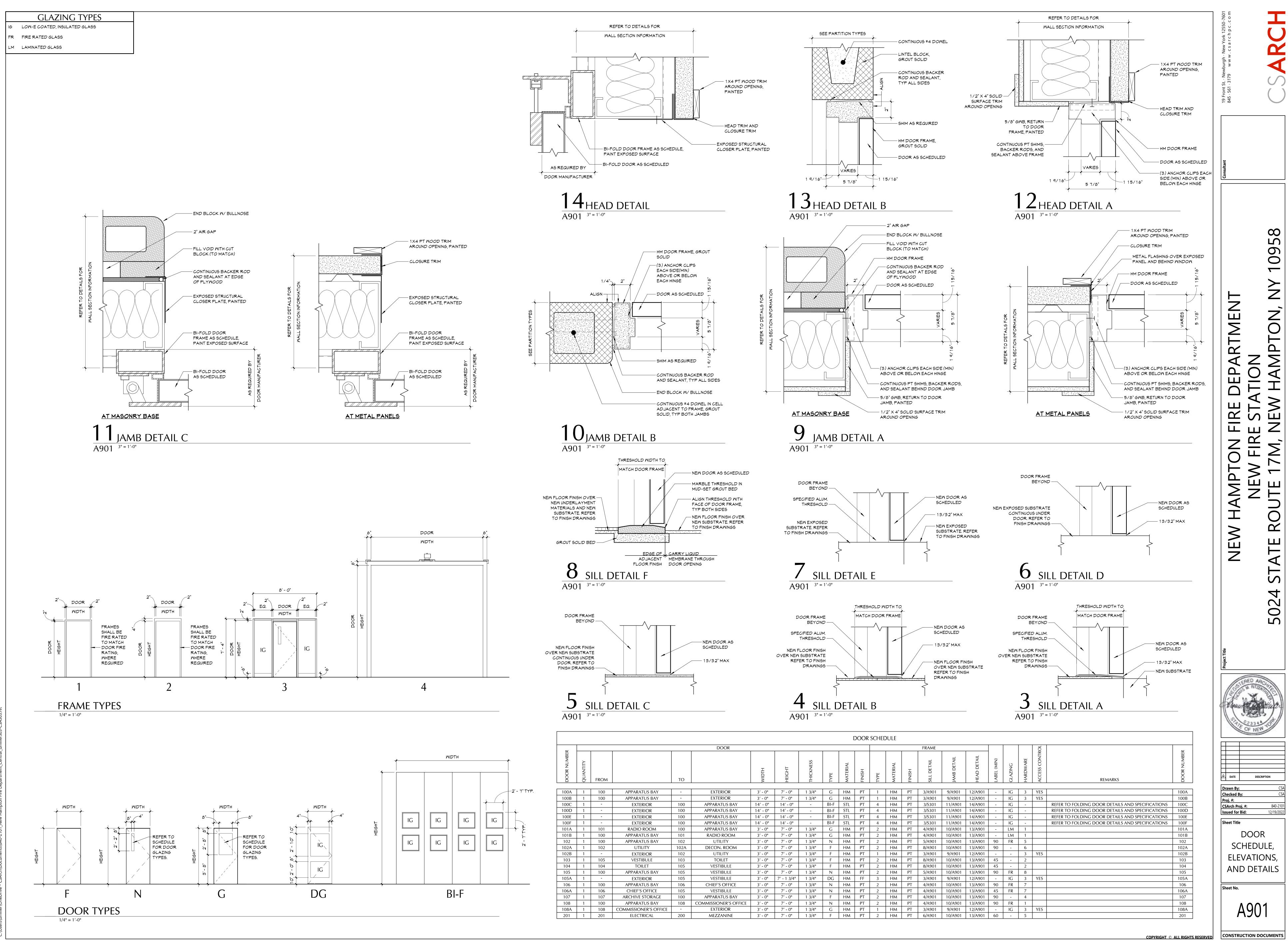


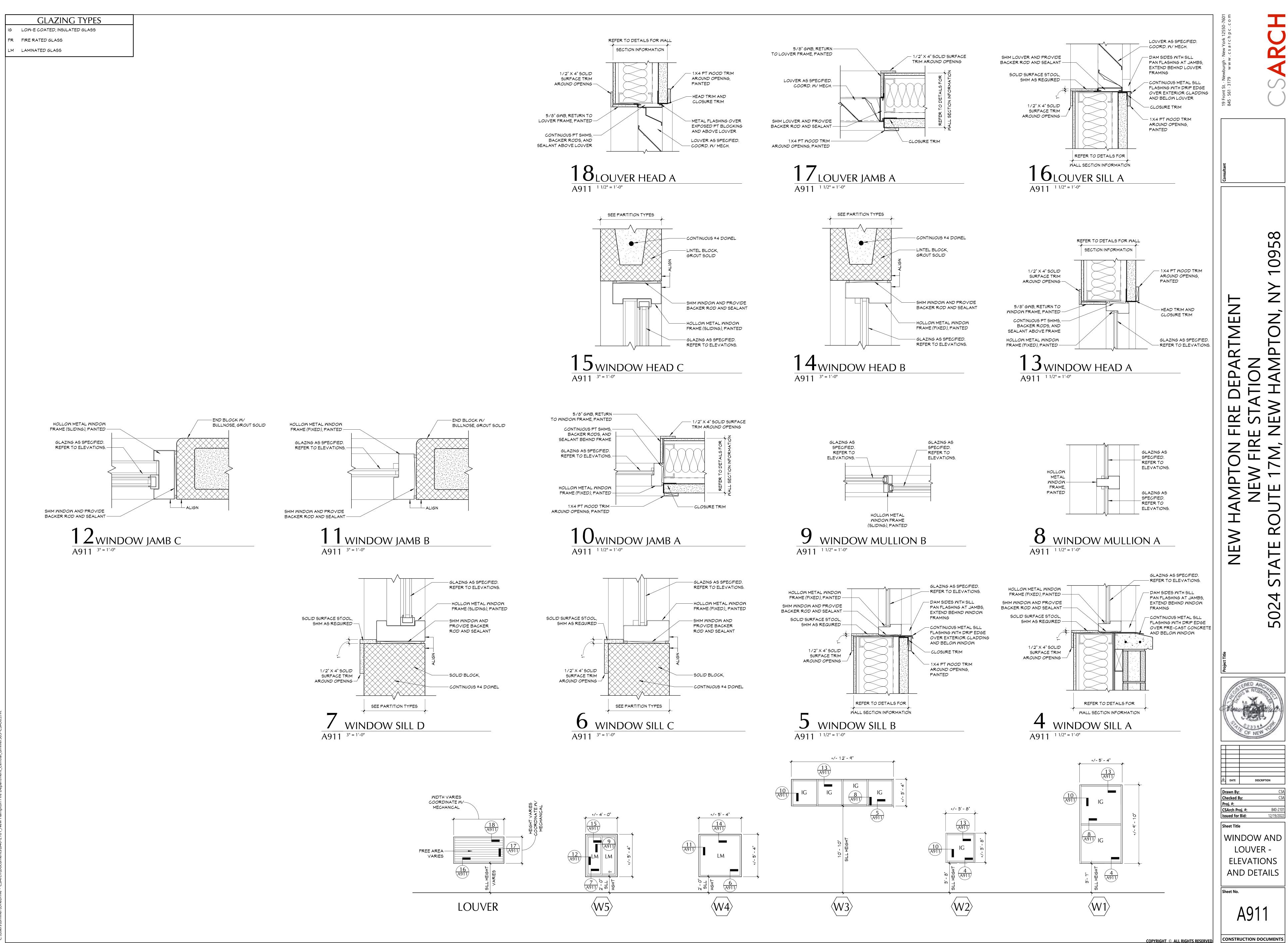












FLOOR FINISH	HES				
LUXURY VINYL TILE	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
LVT-1	MANNINGTON COMMERCIAL	PRIMARY ELEMENTS	AS SELECTED BY ARCHITECT FROM FULL RANGE	12" X 24"	OFFICES AND ARCHIVE STORAGE
CERAMIC FLOOR TILE	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
CFT-1	BEST TILE	UNGLAZED MOSAICS	AS SELECTED BY ARCHITECT FROM FULL RANGE	2" X 2"	MATTE, 12" X 24" SHEETS, TOILET ROOMS
epoxy flooring	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
EFL-1	DUR-A-FLEX, INC.	SHOP FLOOR MR	AS SELECTED BY ARCHITECT FROM FULL RANGE	SEAMLESS	APPARATUS BAY AND VESTIBULE
BASE FINISHES	S				
RUBBER	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
WALL BASE		STILL			
RB-1	JOHNSONITE, A TARKETT COMPANY	COVE	AS SELECTED BY ARCHITECT FROM FULL RANGE	4" HIGH	OFFICES AND ARCHIVE STORAGE
RB-2	JOHNSONITE, A TARKETT COMPANY	COVE	AS SELECTED BY ARCHITECT FROM FULL RANGE	4" HIGH	MEZZANINE AND ELECTRICAL ROOM
CERAMIC TILE BASE	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
CTB-1	BEST TILE	COLOR STORY COLLECTION	AS SELECTED BY ARCHITECT FROM FULL RANGE	4" X 6"	GLOSSY, SANITARY COVE BASE, TOILET ROOMS
EPOXY BASE	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
EB-1	DUR-A-FLEX, INC.	SHOP FLOOR MR	AS SELECTED BY ARCHITECT FROM FULL RANGE	4" HIGH	APPARATUS BAY AND VESTIBULE
WALL FINISH	ES				
CERAMIC WALL TILE	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
CWT-1	BEST TILE	COLOR STORY COLLECTION	AS SELECTED BY ARCHITECT FROM FULL RANGE	4" X 12"	GLOSSY, RUNNING BOND, TOILET ROOMS (PRIMARY)
CWT-2	BEST TILE	COLOR STORY COLLECTION	AS SELECTED BY ARCHITECT FROM FULL RANGE	4" X 12"	GLOSSY, RUNNING BOND, TOILET ROOMS (SECONDARY)
PAINT FINISH	-				NOTE
PAINT	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE
PNT-1	SHERWIN WILLIAMS	EGG-SHELL	AS SELECTED BY ARCHITECT FROM FULL RANGE		OFFICES AND ARCHIVE STORAGE
PNT-2	SHERWIN WILLIAMS	EGG-SHELL	AS SELECTED BY ARCHITECT FROM FULL RANGE		STORAGE, ELECTRICAL, AND UTILITY ROOMS
PNT-3	SHERWIN WILLIAMS	EGG-SHELL	AS SELECTED BY ARCHITECT FROM FULL RANGE		APPARATUS BAY AND VESTIBULE
PNT-4	SHERWIN WILLIAMS	SATIN	AS SELECTED BY ARCHITECT FROM FULL RANGE		HOLLOW METAL DOORS
PNT-5	SHERWIN WILLIAMS	SEMI-GLOSS	AS SELECTED BY ARCHITECT FROM FULL RANGE		HOLLOW METAL FRAMES
PNT-6	SHERWIN WILLIAMS	SEMI-GLOSS	AS SELECTED BY ARCHITECT FROM FULL RANGE		METAL RAILINGS
PNT-7	SHERWIN WILLIAMS	SEMI-GLOSS	AS SELECTED BY ARCHITECT FROM FULL RANGE		DECON. ROOM
PNT-8	SHERWIN WILLIAMS	MATTE	AS SELECTED BY ARCHITECT FROM FULL RANGE		EXPOSED METAL DECKING
CEILING FINIS	SHES				
ACOUSTICAL	MANUFACTURER	STYLE	COLOR # /	SIZE	NOTE

CEILING FINIS	HES			
ACOUSTICAL CEILING TILE	MANUFACTURER	STYLE	COLOR # /	SIZE
C-1	USG INTERIORS, INC.	MARS ACOUSTICAL PANELS	AS SELECTED BY ARCHITECT FROM FULL RANGE	24" X 24"

						FINI	SH SCHE	DULE							
ROOM		FLOOR		BASE		NORTH WALL	NORTH WALL	EAST WALL	EAST WALL	SOUTH WALL	SOUTH WALL	WEST WALL	WEST WALL	CEILING	
NUMBER	ROOM NAME	SUBSTRATE	FLOOR FINISH	SUBSTRATE	BASE FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	MATERIAL	<b>CEILING FINISH</b>
100	APPARATUS BAY	CONC	EFL-1	MTP/CMU	EB-1	CMU	PNT-3	MTP	FF	MTP	FF	MTP	FF	EXP	PNT-8
101	RADIO ROOM	CONC	LVT-1	CMU/GWB	RB-1	CMU	PNT-1	CMU	PNT-1	GWB	PNT-1	CMU	PNT-1	ACT	C-1
102	UTILITY	CONC	EXP	CMU/MTP	EXP	MTP	FF	CMU	PNT-2	CMU	PNT-2	CMU	PNT-2	EXP	PNT-8
102A	DECON. ROOM	CONC	EXP	CMU/GWB	EXP	GWB	PNT-7	CMU	PNT-7	CMU	PNT-7	CMU	PNT-7	EXP	PNT-8
103	TOILET	CONC	CFT-1	CMU/CBB	CTB-1	CBB/CMU	CWT-1/CWT-2	CBB/CMU	CWT-1/CWT-2	CBB/CMU	CWT-1/CWT-2	CBB/CMU	CWT-1/CWT-2	ACT	C-1
104	TOILET	CONC	CFT-1	CMU/CBB	CTB-1	CBB/MTP	CWT-1/CWT-2	CBB/CMU	CWT-1/CWT-2	CBB/CMU	CWT-1/CWT-2	CBB/CMU	CWT-1/CWT-2	ACT	C-1
105	VESTIBULE	CONC	EFL-1	CMU/GWB	EB-1	GWB	PNT-3	CMU	PNT-3	GWB	PNT-3	CMU	PNT-3	ACT	C-1
106	CHIEF'S OFFICE	CONC	LVT-1	CMU/GWB	RB-1	GWB	PNT-1	CMU	PNT-1	CMU	PNT-1	CMU	PNT-1	ACT	C-1
107	ARCHIVE STORAGE	CONC	LVT-1	CMU/GWB	RB-1	GWB	PNT-1	CMU	PNT-1	CMU	PNT-1	CMU	PNT-1	ACT	C-1
108	COMMISSIONER'S OFFICE	CONC	LVT-1	CMU/GWB	RB-1	GWB	PNT-1	GWB	PNT-1	CMU	PNT-1	CMU	PNT-1	ACT	C-1
200	MEZZANINE	CONC	EXP	MTP	FF	MTP	FF	MTP	FF	мтр	FF	MTP	FF	EXP	PNT-8
201	ELECTRICAL	CONC	EXP	CMU	RB-2	CMU	PNT-2	CMU	PNT-2	CMU	PNT-2	CMU	PNT-2	EXP	PNT-8

ALL SCHEDULED CEILINGS

	DISCLAIMER MANUFACTURER'S NAMES AND FINIS INDICATED AS REFERENCED TO TH OF-DESIGN SELECTIONS AND HAVE PRIOR TO BID. THE CONTRACTOR HEREBY NOTIFIED THAT FINISHES IN ARE SUBJECT TO CHANGE IN RESPO CONFIRMED SELECTIONS, PRODUC THE SUBSEQUENT COORDINATION OF ARCHITECT AND MAY DIFFER FRO HEREIN.
	ACMUARCHITECTURAL CONCRIACTACOUSTICAL CEILING TILEAPCACOUSTICAL PANEL CEILINGBRKBRICKCBBCEMENT BACKER BOARDCFTCERAMIC FLOOR TILECMUCONCRETE MASONRY UNCONCCONCRETECPTCARPETCTBCERAMIC TILE BASECWTCERAMIC WALL TILEEPTEPOXY PAINTEBEPOXY FLOORETREXISTING TO REMAINEXPEXPOSEDFAC/FFFACTORY FINISHFBPFIBERBOARD PANELFRTFIRE RETARDENT TREAT
	GWBGYPSUM WALL BOARDLVTLUXURY VINYL TILEMTPMETAL PANELPCONPOLISHED CONCRETEPLAMPLASTIC LAMINATEPLASPLASTIC LAMINATEPLASPLASTERPLYWDPLYWOODPNTPAINTQTQUARRY TILEQTBQUARRY TILE BASERSRUBBER SHEET FLOORINGRSFRUBBER SHEET FLOORINGRSTRUBBER STAIR TREAD / IRTRUBBER TILE FLOORINGSCFSPECIAL CONCRETE FINISSTLSTEELSTUSTUCCOTERRTERRAZZO
	TP TOILET PARTITIONS TYP TYPICAL VCB VENTED COVE BASE VCT VINYL COMPOSITION TILE VCTAS VINYL COMPOSITION TILE VPLAS VENEER PLASTER VSF VINYL SHEET FLOORING MD MOOD MM MALK-OFF MAT MT MOOD TRIM MV MOOD VENEER X- EXISTING GENERAL FINIS
	<ol> <li>ALL EXPOSED SURFACES OF NE BE PAINTED.</li> <li>ALL ELECTRIC, MECHANICAL, AN COMPONENTS EXPOSED IN A RO PAINTED TO MATCH WALL COLO</li> <li>ALL NEW GWB CEILINGS, FASCIA PAINTED PNT-2, UNO.</li> <li>ALL STEEL COLUMNS IN AREAS PAINTED.</li> <li>ALL EXPOSED STEEL AND WOOD STAIRS TO BE PAINTED PNT-3, CHANNELS, PLATES, TUBES, GUA WITH THE EXCEPTION OF SS &amp; FF</li> </ol>
	6. NEW HM DOORS AND FRAMES, M FRAMES, TO BE PANITED, PNT-2 7. THE ENTIRETY OF THE EXPOSED EXPOSED ROOF FRAMING MEMI WHITE. FINISH KI
	PNT FINISH TAG
	PNT-# ACCENT PAINT LOG SIGNAGE TYPE TAG (REFER TO TYPES S 101423 - INTERIOR
4	
LAYOUT	

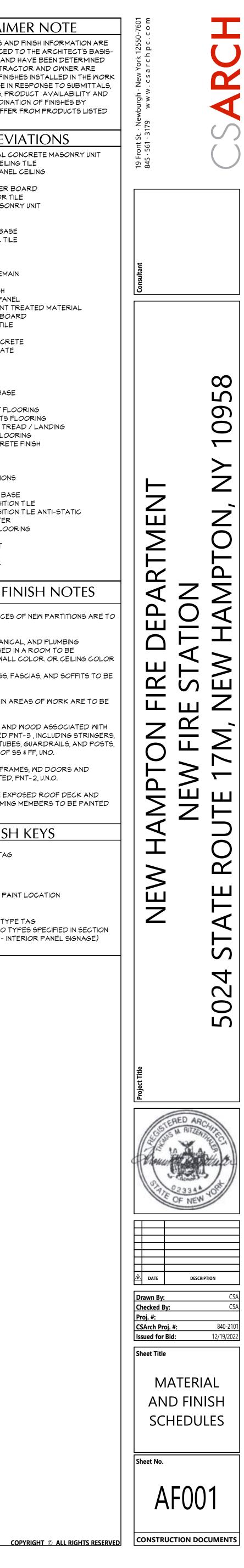


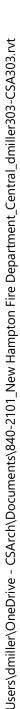
LINE OF CEILING

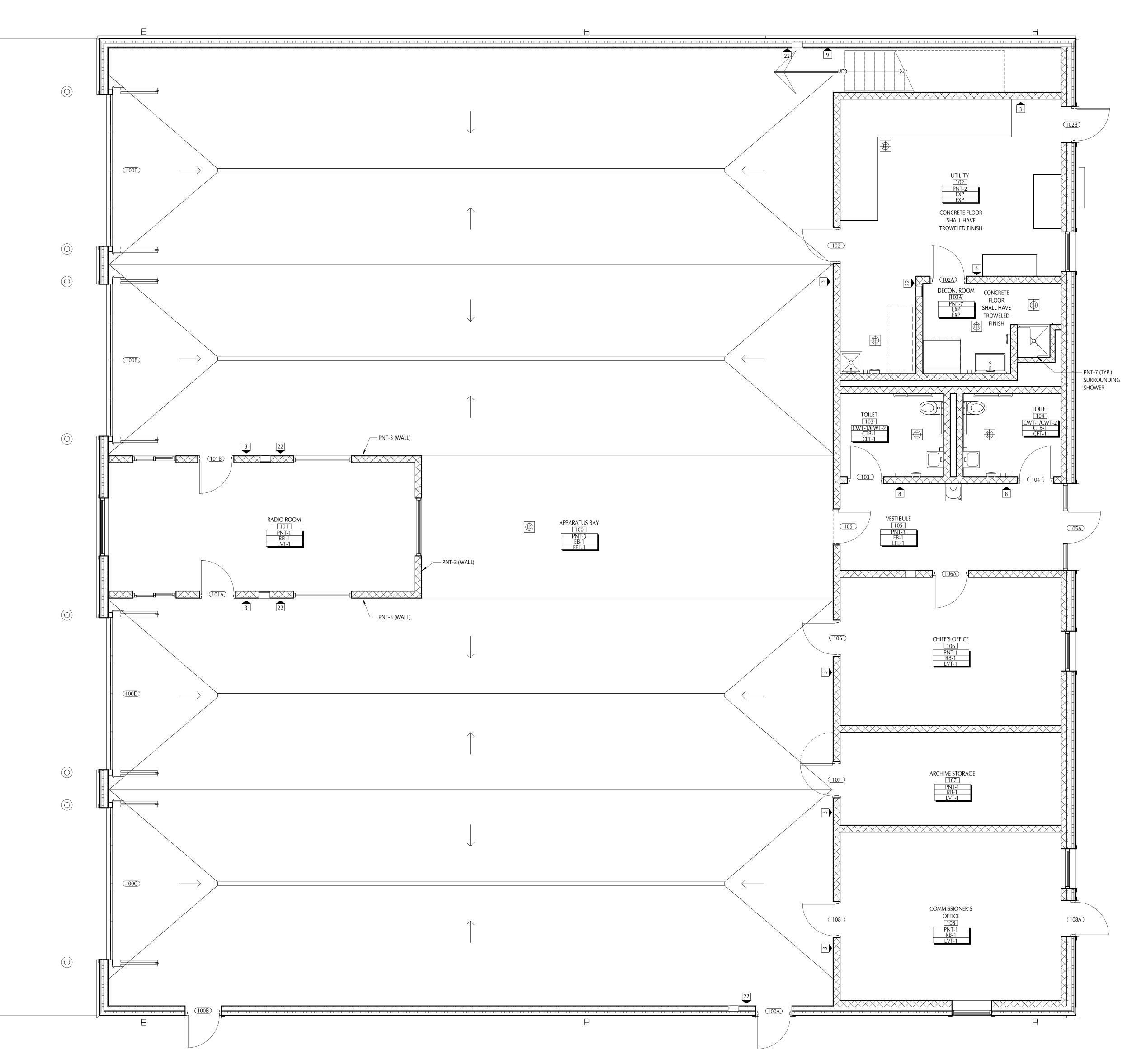
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CMT-2-----

CMT-1

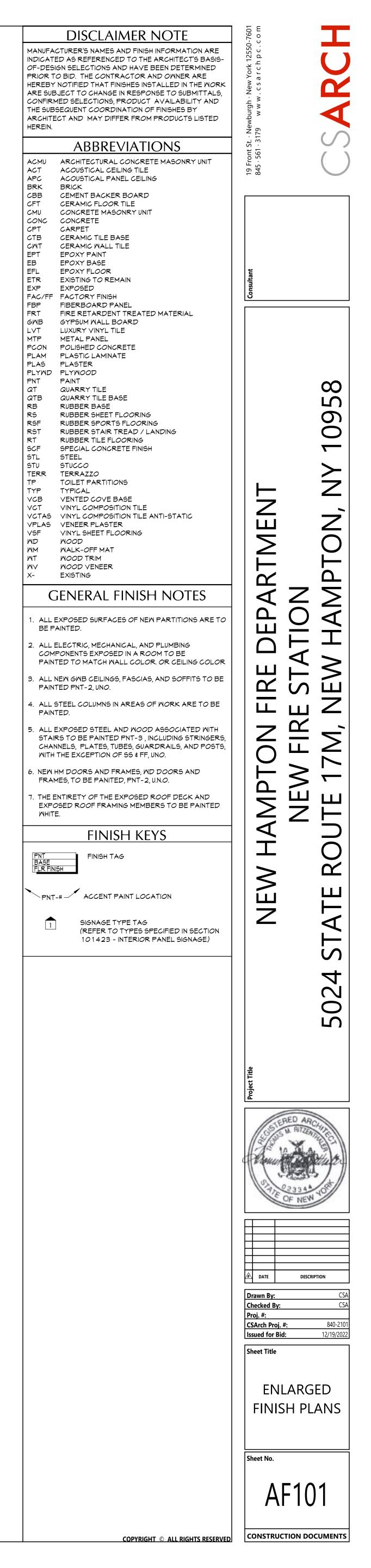


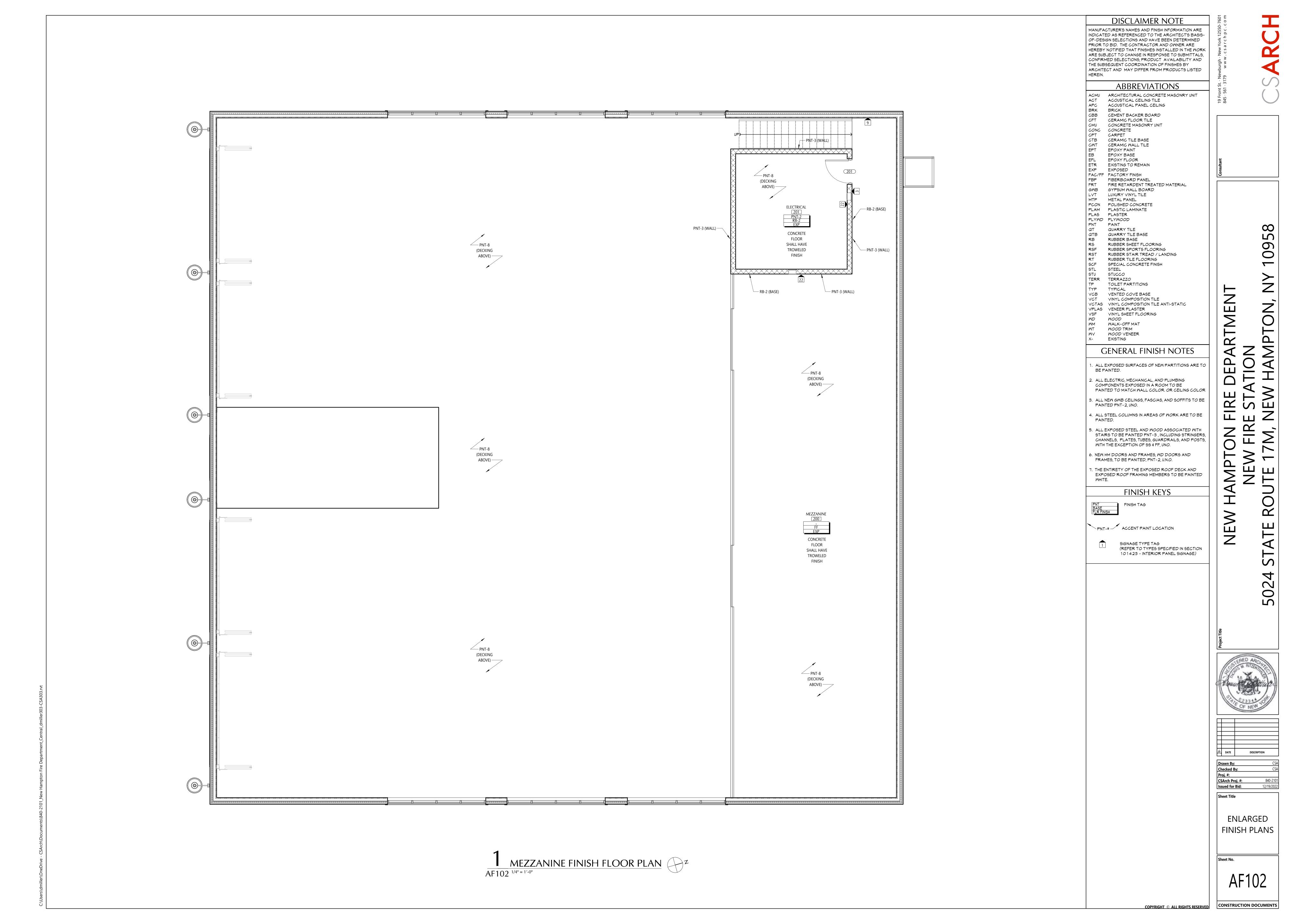




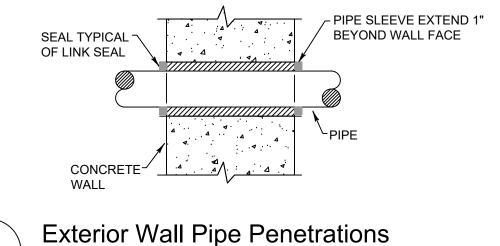
GROUND FLOOR FINISH PLAN



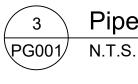


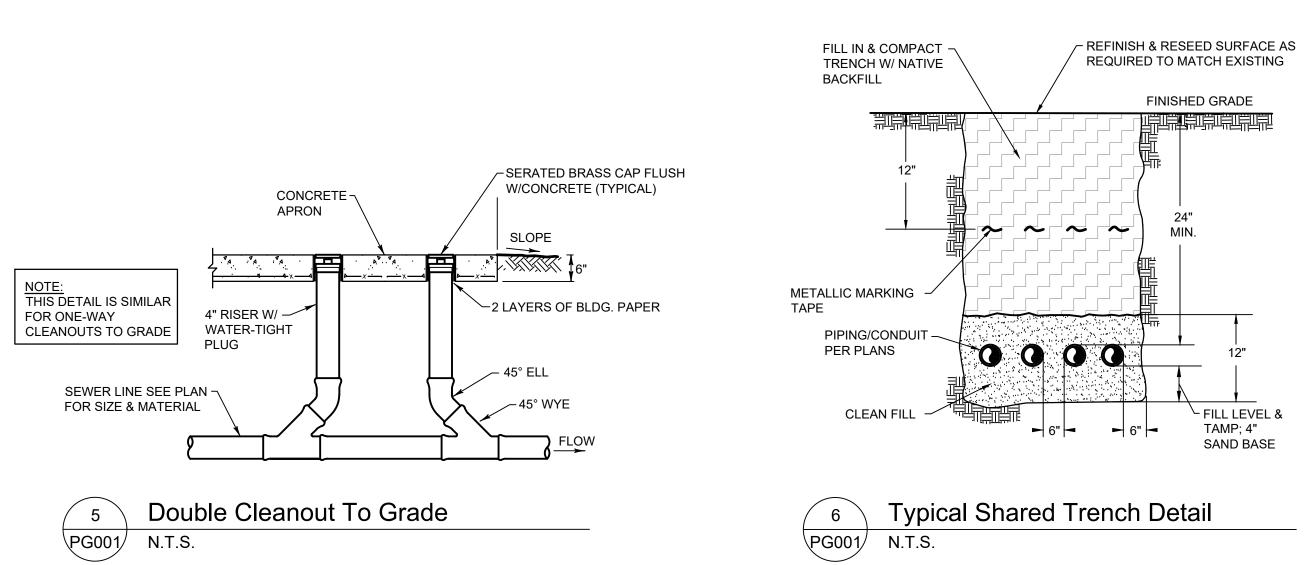


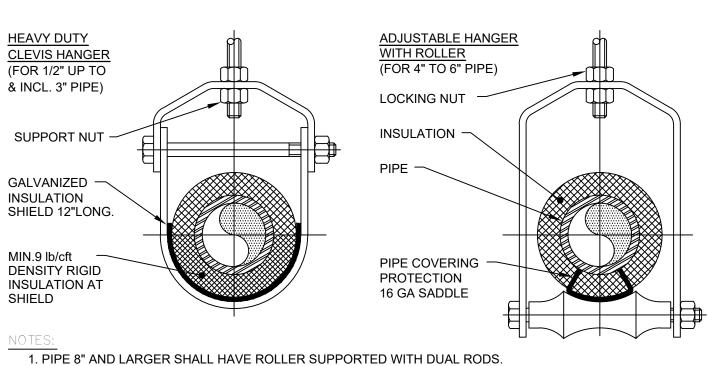
						1	1			are Schedule	
FIXTURE MARK	DESCRIPTION		PIPING		ION	WATER SUPPLY	DRAINAGE FIXTURE		ELECTRONIC CONTROL	MANUFACIURER/MODEL	REMARKS
		H.W.	C.W.	WASTE	VENT	FIXTURE UNITS	UNITS	(Y/N)	(Y/N)	(OR ACCEPTABLE EQUAL)	
P-1	LAVATORY	1/2	1/2	1-1/2	1-1/2	2.0	1	Y	Y	WALL HUNG LAVATORY TYPICAL OF ZURN MODEL #Z5340; VITREOUS CHINA; FURNISH W/ BATTERY SENSOR FAUCET MODEL #Z6955-XL-S-N-LL, CONCEALED ARM CARRIERS, ADA GRID STRAINER AND ADA TRAP/SUPPLY PROTECTORS	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS
P-2	WATER CLOSET	-	1	4	2	10.0	4	Y	Y	WATER CLOSET TYPICAL OF ZURN MODEL #Z5615 HET; WALL HUNG W/ ELONGATED FRONT RIM; 1.28 GPF; FURNISH W/ SEAT MODEL #Z5955SS-EL AND BATTERY SENSOR FLUSH VALVE MODEL# ZER6000AV-HET-CPM.	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS. PROVIDE WALL CARRIER TYPICAL OF ZURN Z1201 OR EQUAL
P-3	2'x2' MOP BASIN	1/2	1/2	3	2	1.4	2	Ν	N	MOP BASIN TYPICAL OF FIAT MODEL #MSB-2424; SHEET MOLDING COMPOUND CONSTRUCTION; FURNISH W/ FAUCET #830-AA, HOSE & BRACKET #832-AA, MOP HANGER #889-CC & STAINLESS WALL GUARD #MSG2424	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-4	FLOOR DRAIN	-	-	4	2	-	2	-	-	4"Ø FLOOR DRAIN W/ 6" STRAINER TYPICAL OF ZURN MODEL #Z415-BZ1-TSP; FURNISH WITH TRAP SEAL DEVICE	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-5	TRENCH DRAIN	-	-	4	2	-	2	-	-	12" WIDE PRE-SLOPED HDPE TRENCH DRAIN TYPICAL OF ZURN MODEL #Z882; FURNISH WITH FIBERGLASS CLASS-F GRATE; ASSEMBLE SECTIONS TO HAVE CONTINUOUS SLOPE	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-6	FLOOR DRAIN	-	-	4	2	-	2	-	-	12-1/2" SQUARE TOP HEAVY DUTY DRAIN W/ 4" PIPE CONNECTION TYPICAL OF ZURN MODEL #Z610; FURNISH WITH TRAP SEAL DEVICE	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-7	CATCH BASIN	-	-	3	2	-	2	-	-	HDPE CATCH BASIN TYPICAL OF ZURN MODEL #Z887-6; FURNISH WITH FIBERGLASS CLASS-A GRATE & SEDIMENT BUCKET	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-8	STAINLESS STEEL SINK	1/2	1/2	2	1-1/2	1.4	2	Ν	N	SINGLE COMPARTMENT STAINLESS STEEL SINK TYPICAL OF ADVANCE TABCO REGALINE 94 SERIES; 14 GAUGE TYPE 304 SS; 20"X28" BOWL; 14" DEEP BOWL; PROVIDE W/ HEAVY DUTY SPLASH MOUNT PRE-RINSE FAUCET MODEL K-116	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-9	SHOWER SYSTEM	1/2	1/2	3	2	3.0	2	Y	N	ONE-PIECE ADA ROLL-IN SHOWER TYPICAL OF FREEDOM SHOWERS MODEL #APFQ6334BF75; FURNISH W/ FOLDING SHOWER SEAT, CAULKLESS DRAIN, GRAB BARS, PRESSURE BALANCE VALVE W/ HAND-HELD SHOWER & SLIDE BAR	INSTALL PER MANUFACTURER'S REQUIREMENTS; ORDER IN LEFT & RIGHT HAND CONFIGURATIONS AS SHOWN ON PL
P-10	WELL TANK	-	2	-	-	-	-	-	-	WELL TANK TYPICAL OF AMTROL MODEL #WX-453C; 264-GAL VOLUME; 264-GAL ACCEPT; 125 PSIG WORKING PRESSURE	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-11	CARBON FILTER	-	2	-	-	-	-	-	-	CARBON FILTER TYPICAL OF US WATER MODEL 140-31F-GAC-15; 30"X72" COMPOSITE TANK; FLOW RATES: 44 GPM PEAK, 50 GPM BACKWASH	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-12	DUPLEX SOFTENER SYSTEM	-	2	-	-	-	-	-	-	DUPLEX WATER SOFTENER SYSTEM TYPICAL OF US WATER MODEL 140-129-210-DX-7; (2) 21"X62" COMPOSITE TANKS; FLOW RATES: 55 GPM NORMAL, 77 GPM PEAK, 12 GPM BACKWASH; W/ 100 GALLON BRINE TANK	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-13	GAS WATER HEATER	1-1/2	1-1/2	-	-	-	-	-	-	COMMERCIAL GAS HIGH EFFICIENCY WATER HEATER TYPICAL OF AO SMITH MODEL #BTH-120(A); 60 GAL CAPACITY; 120,000 BTUH INPUT; 95.0% THERM. EFFICIENCY; 138 GPH RECOVERY @ 100°F RISE;	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-14		I(110F) ≩(140F)	3/4	-	-	-	-	-	-	RECIRCULATION AND MIXING STATION TYPICAL OF BRADLEY MODEL#NRS-4; FURNISH W/ TACO SMARTPLUS MODEL #008-IQSF6-IFC RECIRC PUMP AND AQUASTAT	INSTALL PER MANUFACTURER'S REQUIREMENTS
P-15	EXTERIOR WALL HYDRANT	-	3/4	-	-	-	-	-	-	ENCASED WALL HYDRANT TYPICAL OF ZURN ECOLOTROL MODEL #Z1330XL; ENCASED, LEAD FREE, ANTI SIPHON, AUTO DRAINING	MTD. AT 36" ABOVE FINISHED GRADE. INSTALL PER MANUFACTURER'S REQUIREMENTS
P-16	EXPOSED WALL HYDRANT	-	3/4	-	-	-	-	-	-	EXPOSED WALL HYDRANT TYPICAL OF ZURN ECOLOTROL MODEL #Z1333XL; EXPOSED, LEAD FREE, ANTI SIPHON, AUTO DRAINING	MTD. AT 24" ABOVE FINSHED FLOOR. INSTALL PER MANUFACTURER'S REQUIREMENTS
P-17	DRINKING FOUNTAIN W/ BOTTLE FILLER	-	3/8	1-1/2	1-1/2	0.25	0.5	Y	-	BOTTLE FILLING STATION & SINGLE ADA COOLER TYPICAL OF ELKAY MODEL #LZS8WSSP; FILTERED 8 GPH STAINLESS	INSTALL PER MANUFACTURER'S REQUIREMENTS & ARCH DETAILS W/ SPO HEIGHT AT 30" ABOVE FINISHED GRADE







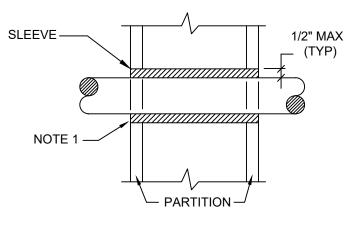




2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

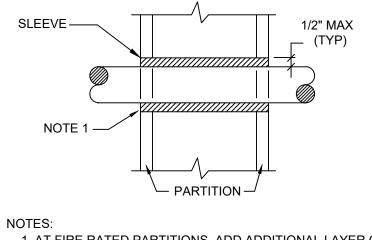
PIPE Ø (IN.)		SPACING BETWE IANGERS (FT.)	EN	MIN. ROD SIZE
	STEEL PIPE	COPPER PIPE	CPVC	(IN.)
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

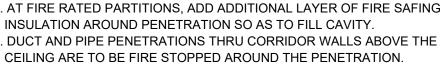
Pipe Hanger Support



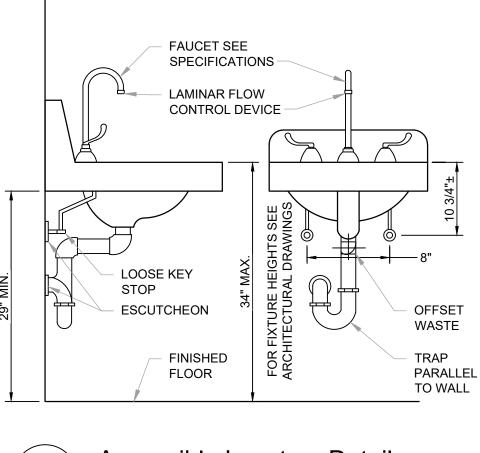
1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY. 2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

### Pipe Penetrations Detail

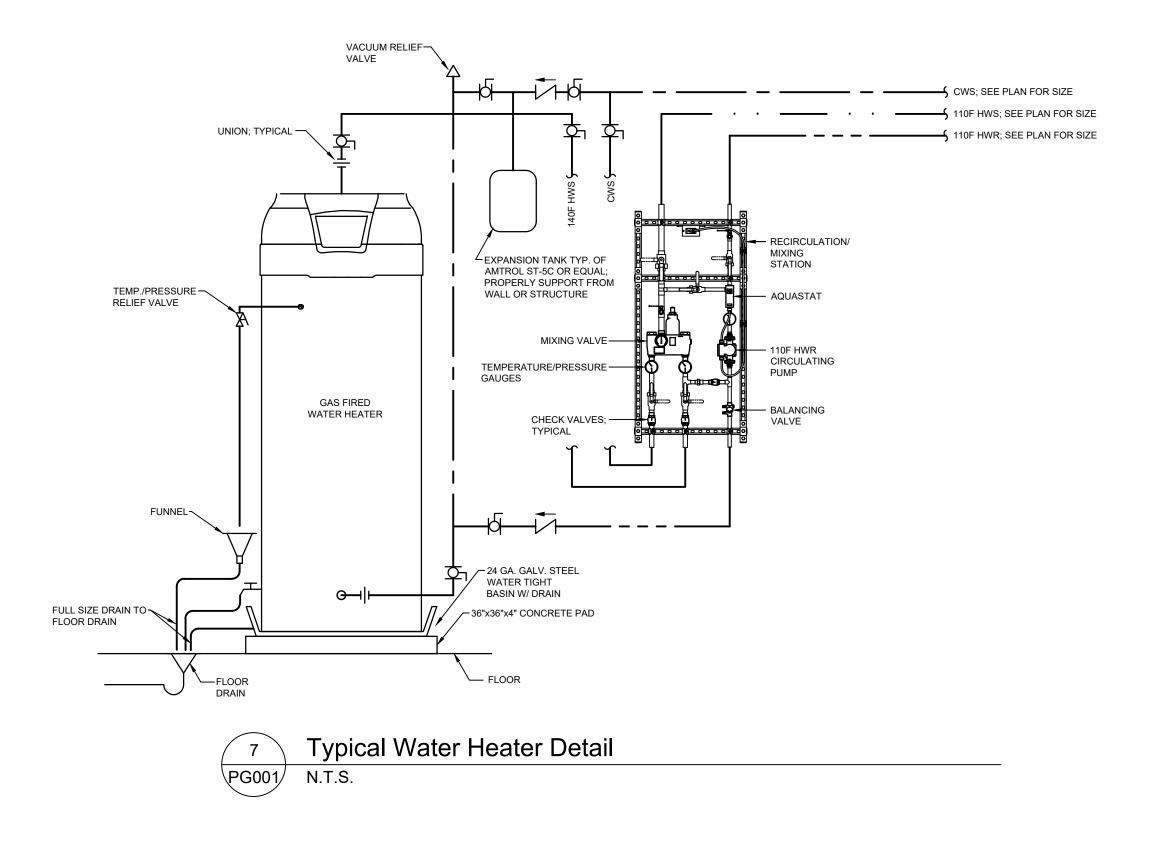








4 \ \PG001/ Accessible Lavatory Detail Scale: None



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С.О. F.C.O.

(P-X)

### Plumbing Legend:

DOMESTIC COLD WATER SUPPLY 110 °F DOMESTIC HOT WATER SUPPLY 140 °F DOMESTIC HOT WATER SUPPLY HOT WATER RETURN SANITARY SEWER, ABOVE GRADE SANITARY SEWER, BELOW GRADE GREASE WASTE, BELOW GRADE PLUMBING VENT STORM WATER, ABOVE GRADE STORM WATER, BELOW GRADE NATURAL GAS PIPING DIRECTION OF PIPE SLOPE (DOWN) CONCENTRIC REDUCER OR INCREASER ECCENTRIC REDUCER TOP CONNECTION, 45° OR 90° BOTTOM CONNECTION, 45° OR 90° SIDE CONNECTION CAPPED OUTLET RISE OR DROP IN PIPE UNION PIPE UP PIPE DOWN POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK STRAINER HOSE BIB SOLENOID VALVE GATE VALVE GLOBE VALVE CHECK VALVE

BUTTERFLY VALVE

FULL PORT BALL VALVE

### PRESSURE GAUGE

PRESSURE REDUCING VALVE (PRV) DRAIN VALVE

FLEXIBLE PIPING CONNECTION

CLEANOUT

WALL CLEANOUT

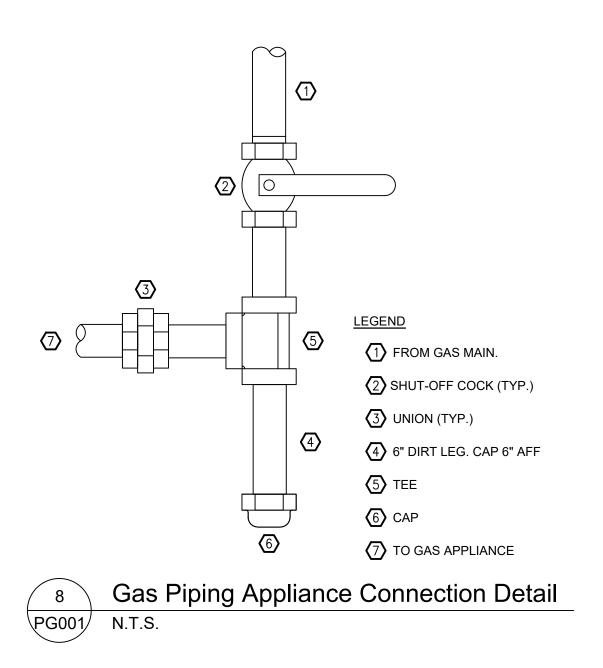
FLOOR CLEANOUT

CLEANOUT TO GRADE

- DOUBLE CLEANOUT TO GRADE
- PLUMBING FIXTURE MARK

### Plumbing Notes:

- 1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- 3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- 4. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR. 5. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY
- DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- 6. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 PLUMBING CODE OF NEW YORK STATE, 2020 FUEL GAS CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- WHERE THE PROJECT INVOLVES A GAS SERVICE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL GAS UTILITY COMPANY. ALL WORK INVOLVING THE GAS UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- 8. ALL DOMESTIC COLD AND HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH 1" THICK RIGID ONE-PIECE MOLDED SECTIONAL FIBERGLASS PIPE COVERING WITH UNIVERSAL JACKET. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.
- 9. ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- 10. ALL EXPOSED PIPING, FITTINGS, TRAPS, ESCUTCHEONS, VALVES, ETC. SHALL BE CHROME PLATED.
- 11. SLOPE SANITARY DRAINAGE PIPING 2" DIAMETER AND SMALLER NOT LESS THAN 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING OVER 2" DIAMETER NOT LESS THAN 1/8" PER FOOT.
- 12. INSTALL A CLEANOUT AT THE BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY CODE.
- 13. PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.
- 14. TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- 14.1. WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.
- 14.2. DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.
- 15. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- 16. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM. SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- 17. INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM.
- 18. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 19. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- 20. CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.



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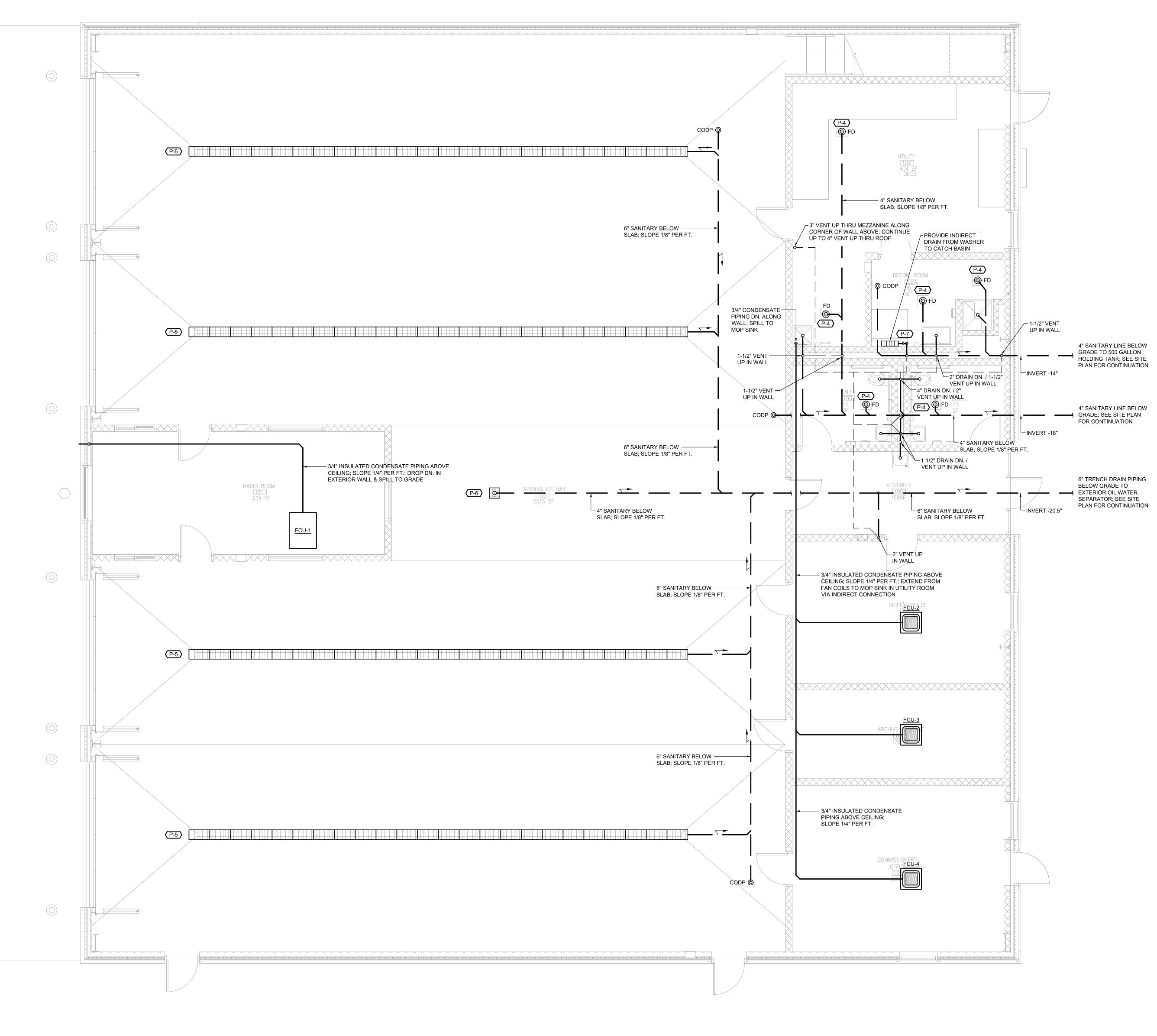
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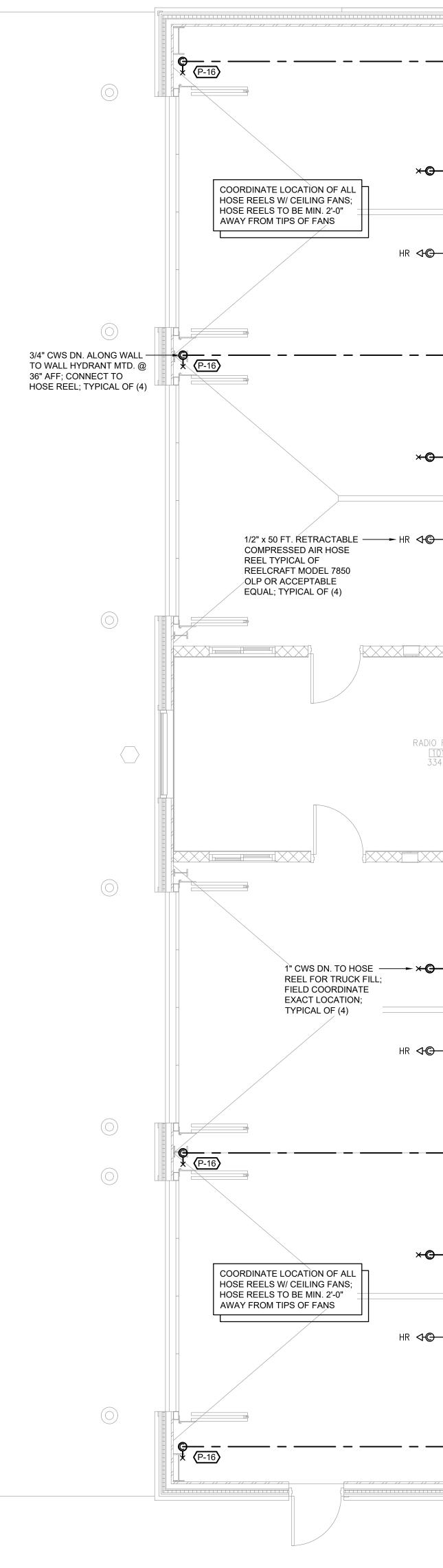
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CONSTRUCTION DOCUMENTS

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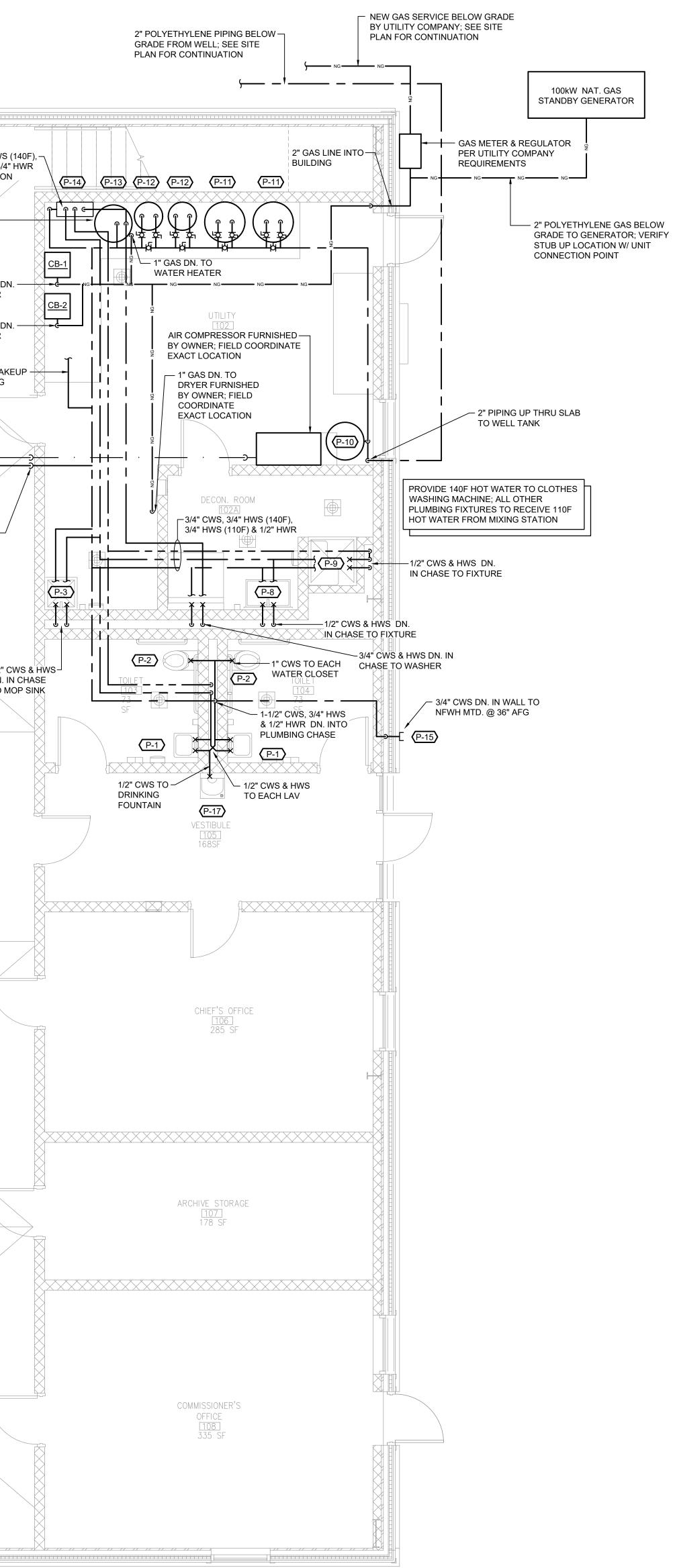




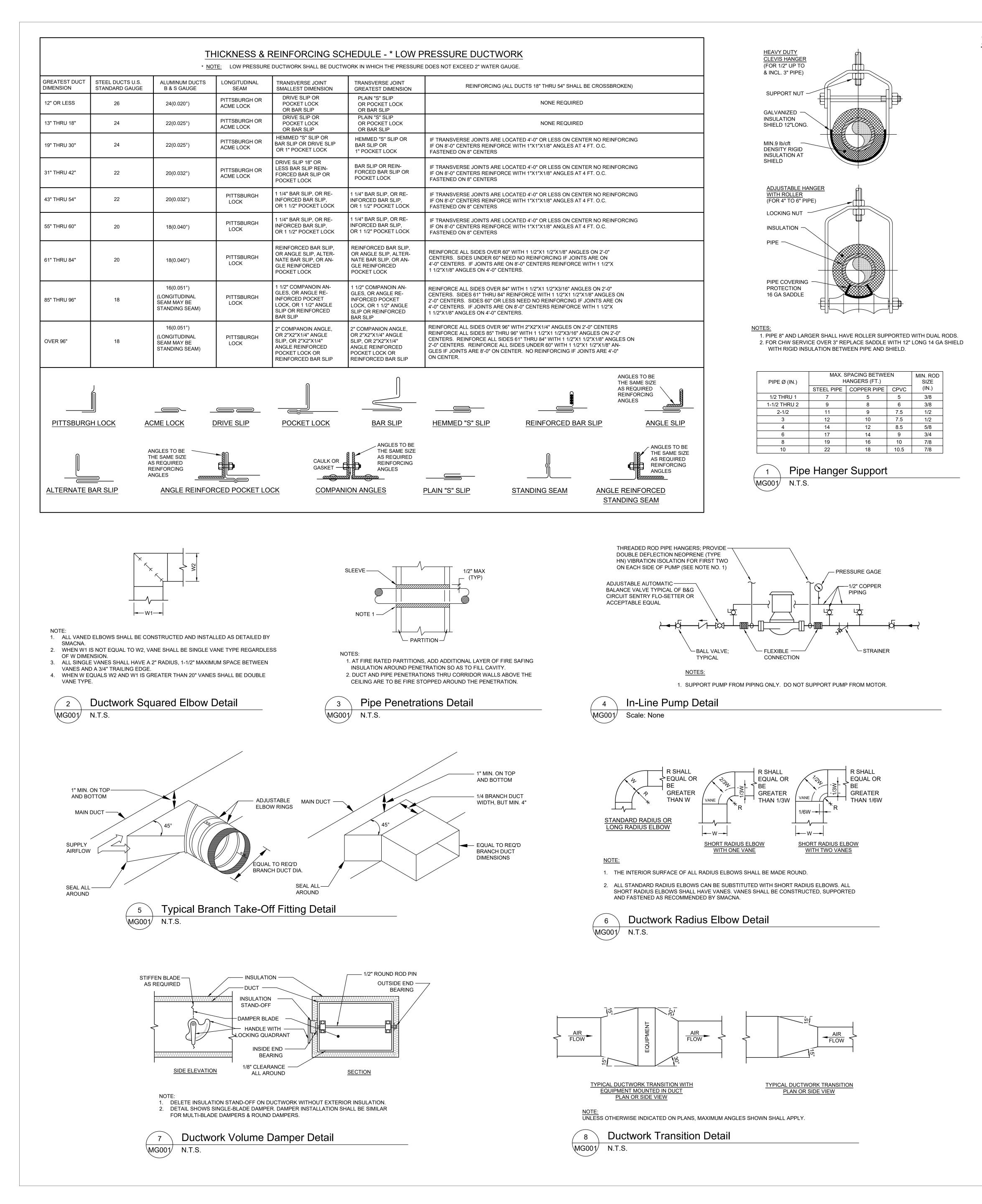
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	1" HWS (110F) & 3/4		٦
	DEWALL VENT; CONFIRM SIZING WITH ASED ON FINAL VENTING LAYOUT; SEE	EXTERIOR WALL TO CONCENTRIC SID MANUFACTURER REQUIREMENTS BAS	   
	TO BOILER	· · · · · · · · · · · · · · · · · ·	
	• TO BOILER	PIPING INSTALLED AS	
	TO HEATING		
	AIR PIPING RISE UP ALONG FACE OF WALL & CONTINUE		
	1/2"	SSED AIR PIPING DN	
	. TO	RADIO ROOM CEILING;	
		3/4" COMPRESSED AIR PIPING DN. ALONG WALL TO VALVE & QUICK	
COMPRESEND AIR PRIVISIONAL TRE MODULAD MANUACTURENCOMPLIANT NA KARE BS1.1 MANUACTURENCOMPLIANT NA KA		CONNECT FITTING AT 36" AFF	
			0 ROOM 011 54 SF
PIPING INSTALLED AS HIGH AS POSSIBLE		AND ACCESSORIES COMING FROM THE SAME MANUFACTURER; COMPLIANT W/ ASME B31.1; W/ 10 YEAR WARRANTY; INSTALL PER	
PIPING INSTALLED AS HIGH AS POSSIBLE			
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PIPING INSTALLED AS HIGH AS POSSIBLE		· · · · · · ·	
PIPING INSTALLED AS HIGH AS POSSIBLE			   
		PIPING INSTALLED AS HIGH AS POSSIBLE	



P201 Scale: 1/4" = 1'-0"







### Mechanical Legend :

SUPPLY DUCT (UP & DOWN)

EXHAUST DUCT (UP & DOWN)

RETURN DUCT (UP & DOWN)

SQUARE 3-WAY CEILING DIFFUSERS

SQUARE 2-WAY CEILING DIFFUSERS

SQUARE 1-WAY CEILING DIFFUSERS

LINEAR SLOT DIFFUSER

(WALL TYPE)

(WALL TYPE)

MANUAL SPLITTER DAMPER

STANDARD BRANCH SUPPLY OR

RETURN, NO SPLITTER (45° TAP)

SYMBOL IS MISSING)

VANED ELBOW (SHORT RADIUS)

VANED ELBOW (PROVIDE ALL SQUARE OR

RECTANGULAR ELBOWS WITH VANES EVEN IF

STANDARD RADIUS ELBOW (LONG RADIUS); INSIDE

RADIUS R TO BE EQUAL TO OR GREATER THAN W

NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)

FLEXIBLE DUCTWORK (INSULATED)

MANUAL VOLUME DAMPER

FIRE DAMPER

ROUND AND SQUARE 4-WAY CEILING DIFFUSERS

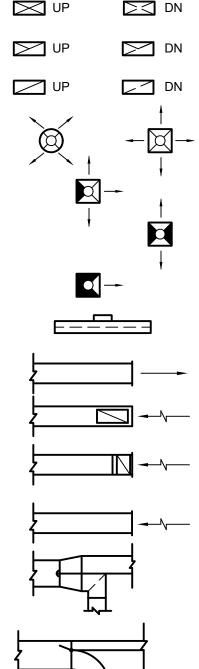
SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)

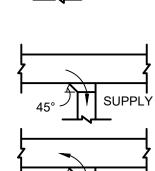
EXHAUST OR RETURN CEILING REGISTER OR GRILLE

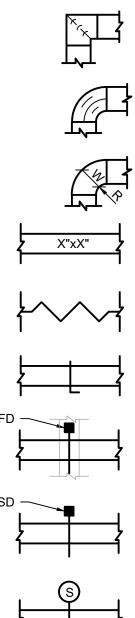
EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE

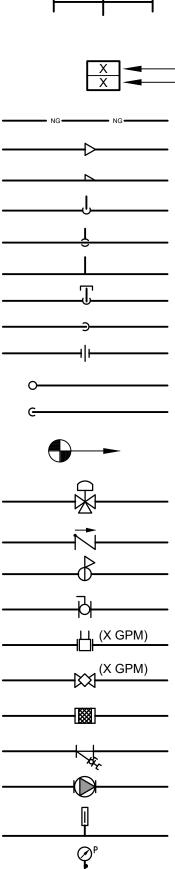
EXHAUST OR RETURN REGISTER OR TOP GRILLE

VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF









ſ	
- <u> </u> -{	COMBINATION FIRE SMOKE DAMPER
- <u> </u> -1	DUCT SMOKE DETECTOR
	- TERMINAL UNIT TAG - AIRFLOW (CUBIC FEET PER MINUTE)
	NATURAL GAS PIPING
	CONCENTRIC REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	RISE OR DROP IN PIPE UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	3-WAY MODULATING CONTROL VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	FULL PORT BALL VALVE
)	MANUAL BALANCE VALVE (CIRC. SETTER)
)	AUTOMATIC BALANCE VALVE (FLO-SETTER)
	FLEXIBLE PIPING CONNECTION
	WYE STRAINER W/ VALVE & HOSE CONN.
	INLINE PUMP
	THERMOMETER

PRESSURE GAUGE

**TEMPERATURE & PRESSURE GAUGE** 

DRAIN VALVE

PRESSURE RELIEF VALVE

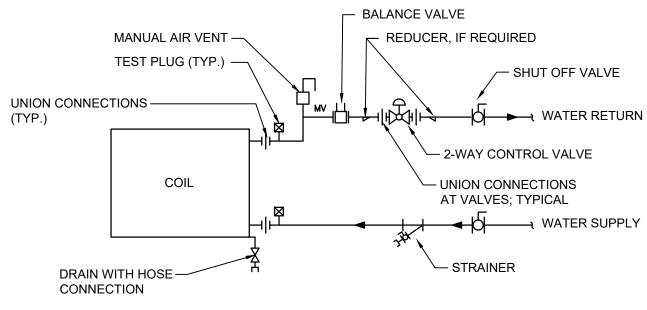
### Mechanical Notes:

- 1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- 3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES. 4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- 6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- 7. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT. 8. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT
- COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 MECHANICAL CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- 9. ALL HYDRONIC HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH A MINIMUM OF R-3 INSULATION. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.
- 10. ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- 11. ALL PIPING SHALL BE PITCHED SUCH THAT AIR IN THE SYSTEM CAN BE VENTED THROUGH MANUAL AIR VENTS.
- 12. TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS TO TWICE THE SYSTEM WORKING PRESSURE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- 13. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- 14. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- SYSTEM. INSTALL MANUAL AIR VENT VALVE FACILITIES AT THE TOP OF ALL RISERS AND AT HIGH POINTS OF THE PIPING SYSTEM.
- 16. INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- 17. THE ENTIRE HYDRONIC SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED WATER FLOWRATE REQUIREMENTS. A CERTIFIED BALANCING REPORT AND VERIFICATION IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- 18. ALL DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET STEEL (EXCEPT WHERE OTHERWISE SPECIFIED) WITH GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- 19. PROVIDE MANUAL DAMPERS AT EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. EACH DAMPER SHALL BE OF THE OPPOSED BLADE DAMPER TYPE INSTALLED WITH AN OPERATOR AND LOCKING DEVICE. ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS SHALL BE INSTALLED WITH REMOTE GEAR OPERATORS.
- 20. FURNISH & INSTALL FUSIBLE LINK FIRE DAMPERS AT ALL LOCATIONS WHERE DUCT PENETRATES FIRE-RATED FLOOR OR CEILING ASSEMBLY WHETHER OR NOT SPECIFICALLY SHOWN. INSTALL DUCTWORK CASING ACCESS DOORS AND FRAMES AHEAD OF EACH FIRE DAMPER FOR INSPECTION AND MAINTENANCE. DOORS SHALL BE A MINIMUM OF 20 GA. DOUBLE PANEL INSULATED TYPE.
- 21. INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.
- 22. ROUND SHEET STEEL ELBOWS ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL SUPPLY AIR DIFFUSERS. SHEET STEEL PLENUM BOXES ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL RETURN AND EXHAUST AIR GRILLES. THE CONTRACTOR IS TO PAINT THE INSIDE OF THE SHEET STEEL PLENUM BOXES FLAT BLACK.
- 23. ALL SUPPLY AND RETURN DUCTWORK LOCATED IN UNCONDITIONED SPACES OR ABOVE CEILINGS SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION. ALL DUCTWORK LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION. INSULATION SHALL BE FIBERGLASS DUCT WRAP WITH VAPOR SEAL SECURELY TAPED AROUND DUCT. IF DUCT LINING IS TO BE USED, ALL DUCT SIZES SHOWN SHALL BE CONSIDERED TO BE INSIDE CLEAR DIMENSIONS.
- 24. INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- 25. THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.
- 26. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 27. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- 28. CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

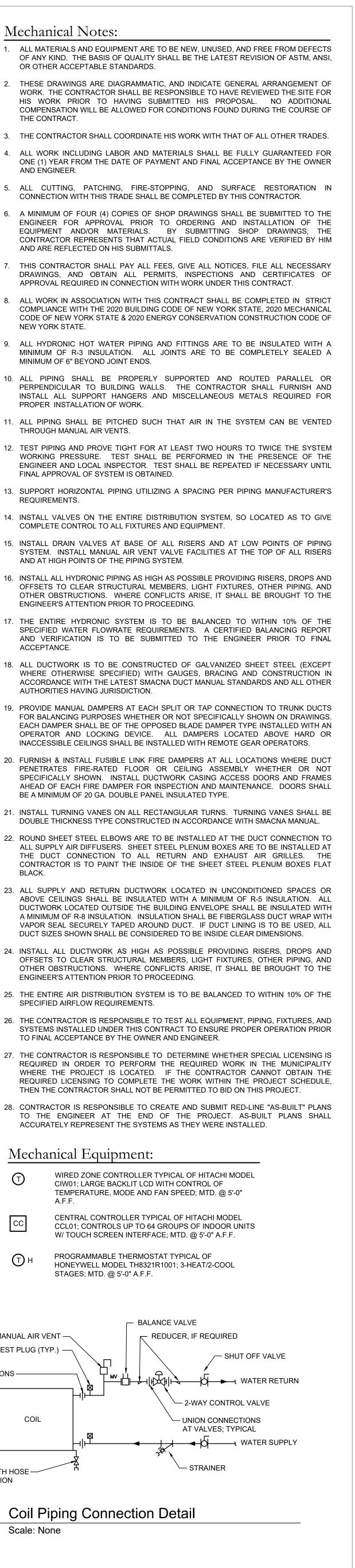
### Mechanical Equipment:

T	WIRED ZONE CONTROLLER TYPICAL OF HITACHI MODEL CIW01; LARGE BACKLIT LCD WITH CONTROL OF TEMPERATURE, MODE AND FAN SPEED; MTD. @ 5'-0"
	A.F.F.

- CENTRAL CONTROLLER TYPICAL OF HITACHI MODEL CCL01; CONTROLS UP TO 64 GROUPS OF INDOOR UNITS W/ TOUCH SCREEN INTERFACE; MTD. @ 5'-0" A.F.F.
- PROGRAMMABLE THERMOSTAT TYPICAL OF Tн HONEYWELL MODEL TH8321R1001; 3-HEAT/2-COOL STAGES; MTD. @ 5'-0" A.F.F.



Coil Piping Connection Detail MG001/ Scale: None





								IN	NDO	OR N	MINI-S	SPLIT	UN	IT SCH	IEDULE	<u>-</u>							
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	MIN	NI-SPLIT UNIT TYPE		a of Ding Ved	AIRFLOW (CFM)		COOLING Y EDB (°F)		CAPACITY (MBH)	HEATING ( EDB (°F)	EWB (°F)	PAIRED OUTDOOR UNIT	EXTERNAL STATIC PRESSURE (IN. W.C.)		ELECT POV REQUIRI PHASE	VER	W	WEIGHT (LB)			NOTES
FCU-1	HITACHI	HIDM018B2	3S DUC	CTED MEDIUM STATIC	<sup>1</sup> RADIO	ROOM	653	18.0	80.0	67.0	20.0	70.0	60.0		-	208	1	60	57	190	PROVIDE	W/ BUILT	IN CONDENSATE PUMP
FCU-2	HITACHI	HICM012B2		CEILING CESSED UNIT	CHIEF'S	6 OFFICE	459	10.8	80.0	67.0	12.0	70.0	60.0		-	208	1	60	57	35	PROVIDE	W/ BUILT	IN CONDENSATE PUMP
FCU-3	HITACHI	HICM012B2	1S REG	CEILING CESSED UNIT		HIVE RAGE	459	7.2	80.0	67.0	12.0	70.0	60.0	HP-1 -	-	208	1	60	57	35	PROVIDE	W/BUILT	IN CONDENSATE PUMP
FCU-4	HITACHI	HICM012B2	1S REG	CEILING CESSED UNIT	COMM.	OFFICE	459	10.8	80.0	67.0	12.0	70.0	60.0		-	208	1	60	57	35	PROVIDE	W/BUILT	IN CONDENSATE PUMP
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL		OR UNITS C	COMPRESS TYPE	<sup>SOR</sup> CA		OM. HEAT APACITY (MBH)	OU OPERA RAN	TDOOR TING TEM IGE (°F)	P AHRI I	EFFICIENC <sup>N</sup> ATINGS	Y REF	RIGERANT	SOUND PRESSURE LEVEL COOLING/ HEATING			VER EMENTS		WEIG			NOTES
HP-1	HITACHI	HVAHP060B2			INVERTE SCROLL HERMET	_	60.0	66.0				16.8 3.9		R410A		08	1 6					IISH W/ REG R DIAGRAM	QUIRED PIPING ACCESSORIES AS SHOWN ON 1
								ENER	GY F	RECO	OVER	Y VEI	NTI	LATOF	R SCHEI	DUL	Æ						
EQUIPMENT	MANUFACTURER	MODEL	FRESH AIR FLOW	EXHAUST AIR FLOW				TSIDE AIR (° TER SUMI					ECOVEF	RY EFFECTIV	ENESS TOTAL	MO		FRICAL	DATA			WEIGHT	NOTEO
TAG	(OR ACCEPT. EQUAI	_) MODEL	RATE (CFM)	RATE (CFM)	DB W			WB DB			DB WB	WINTER						VOLT.	PHASE	Hz. F	LA MOCP	(LB)	NOTES
					+					+ +													PROVIDE W/ HIGH EFFICIENCY FILTERS, ECM
ERV-1	RENEWAIRE	HE1.5XINV	550	550	70.0 58	8.0 75.0	63.0 0.0	0.0 95.0	75.0 55.	7 43.5	79.1 67.3	80.0%	80.0	0% 79.9%	% 64.7%	2	1 HP EA.	208	1	60	7.7 15	-	MOTORS, DISCONNECT SWITCH, MOTORIZED DAMPERS & TIMER FOR OCCUPIED OPERATION

				AI	R GRI	ILLE/DIF	FFUSER
EQUIPMENT	MANUFACTURER (OR ACCEPT.	MODEL	AIR DEVICE	AIRFLO	W (CFM)	MAX AIR PRESS.	MOUNTING
TAG	EQUAL)	MODEL	TYPE	MIN.	MAX.	DROP (IN. W.C.)	MOONTINO
D-1	KRUEGER	PLQ-10-F23-24x24-06-IB-44	LOUVERED FACE SUPPLY DIFFUSER	241	400	0.10	LAY-IN
D-2	KRUEGER	880-H-6-6-F22-NONE-02-01-00-44	DOUBLE DEFLECTION SUPPLY GRILLE	0	175	0.10	DUCT MTD.
D-3	KRUEGER	5DMGDR-H-10-6-10-01-81	DUCT MOUNTED SUPPLY GRILLE	0	200	0.10	DUCT MTD.
R-1 / EG-1	KRUEGER	S80P-20x20-F23-24x24-00-00-00-44	PERFORATED FACE RETURN GRILLE	0	1,300	0.10	LAY-IN
EG-2	KRUEGER	S80H-6x6-F22-NONE-00-00-00-44	35° DEFLECTION RETURN GRILLE	0	150	0.08	DUCT MTD.
EG-3	KRUEGER	S80H-36x24-F22-NONE-00-00-00-44	35° DEFLECTION RETURN GRILLE	0	2500	0.08	DUCT MTD.
EG-4	KRUEGER	S80H-8x8-F22-NONE-00-00-00-44	35° DEFLECTION RETURN GRILLE	0	275	0.08	DUCT MTD.

ERV-2

RENEWAIRE

HE1XINV

300

	HOT WATER UNIT HEATER SCHEDULE																
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT.	MODEL	AIRFLOW (CFM)	EFT (°F)	LFT (°F)	CAPACITY (MBH)	E.A.T. DB (°F)	L.A.T. DB (°F)	FPD (FT)	FLOW RATE (GPM)	NOM. H.P.	VOLT.	MOTOR PHASE	HZ.	RPM	FLA	NOTES
UH-1	EQUAL) STERLING	HS-144	2200	160	140	74.4	60	104	0.43	(GPM) 10.4	1/3	120	PHASE 1	п <u>2</u> . 60		4.5	PROPERLY SUPPORT FROM STRUCTURE ABOVE
UH-2	STERLING	HS-136A	850	160	140	25.6	60	99	3.0	3.6	1/20	120	1	60	-	1.4	PROPERLY SUPPORT FROM STRUCTURE ABOVE

					HOT W	ATER F	PUMI	P SCHE	DULE							
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	LOCATION	AREA SERVED	PUMP TYPE	FLUID	CIRCULA G.P.M.	ATING FLUID HEAD (FT.)	TEMP. (°F)	NOM. H.P.	VOLT.	MOTOR PHASE	HZ.	RPM	FLA	NOTES
CP-1	GRUNDFOS	UPMXL	UTILITY ROOM	BOILER PUMP	IN-LINE	HOT WATER	30.4	15.0	160	-	120	1	60	1160	1.7	FURNISHED W/ BOILER
CP-2	GRUNDFOS	UPMXL	UTILITY ROOM	BOILER PUMP	IN-LINE	HOT WATER	30.4	15.0	160	-	120	1	60	1160	1.7	FURNISHED W/ BOILER
CP-3	GRUNDFOS	MAGNA3 32-100F	UTILITY ROOM	UNIT HEATERS	IN-LINE	HOT WATER	34.2	14.0	160	-	120	1	60	VARI.	1.61	VARIABLE SPEED ECM
CP-4	GRUNDFOS	ALPHA2 15-55F	UTILITY ROOM	INJECTION PUMP	IN-LINE	HOT WATER	8.8	10.0	160	-	120	1	60	VARI.	0.65	VARIABLE SPEED ECM
CP-5	GRUNDFOS	ALPHA2 15-55F	UTILITY ROOM	RADIANT ZONE RM-1	IN-LINE	HOT WATER	8.6	10.0	125	-	120	1	60	VARI.	0.65	VARIABLE SPEED ECM
CP-6	GRUNDFOS	ALPHA2 15-55F	UTILITY ROOM	RADIANT ZONE RM-2	IN-LINE	HOT WATER	1.8	2.1	125	-	120	1	60	VARI.	0.65	VARIABLE SPEED ECM
CP-7	GRUNDFOS	ALPHA2 15-55F	UTILITY ROOM	RADIANT ZONE RM-3	IN-LINE	HOT WATER	3.1	10.4	125	-	120	1	60	VARI.	0.65	VARIABLE SPEED ECM
CP-8	GRUNDFOS	ALPHA2 15-55F	UTILITY ROOM	RADIANT ZONE RM-4	IN-LINE	HOT WATER	2.0	5.4	125	-	120	1	60	VARI.	0.65	VARIABLE SPEED ECM
CP-9	GRUNDFOS	MAGNA3 40-80F	UTILITY ROOM	RADIANT ZONE RM-5	IN-LINE	HOT WATER	8.6	14.6	125	-	120	1	60	VARI.	2.57	VARIABLE SPEED ECM
CP-10	GRUNDFOS	ALPHA2 15-55F	UTILITY ROOM	HEAT EXCHANGER HX-1	IN-LINE	HOT WATER	10.6	6.8	160	-	120	1	60	VARI.	0.65	VARIABLE SPEED ECM
CP-11	GRUNDFOS	MAGNA3 40-80F	UTILITY ROOM	SNOW MELT	IN-LINE	40% PROPYLENE GLYCOL	13.5	38.7	135	-	120	1	60	VARI.	2.57	VARIABLE SPEED ECM

 300
 70.0
 58.0
 75.0
 63.0
 0.0
 95.0
 75.0
 56.5
 44.0
 78.9
 67.1
 81.1%
 81.1%
 81.1%
 66.5%

	LOUVER SCHEDULE													
EQUIPMENT TAG	QTY.	MANUFACTURER (OR ACCEPT.	MODEL	AIR DEVICE TYPE				FREE AREA (SQ. FT.)	AIRFLOW (CFM)	VELOCITY (FT./MIN.)	MOUNTING	SCREEN	FINISH	NOTES
TAG		EQUAL)			WIDE	HIGH	DEPTH	(00.11.)		(1 1.///////////////////////////////////				
L-1	2	RUSKIN	ELF6375DX	STATIONARY LOUVER	72"	36"	6"	10.38	5000	415.6	EXTERIOR WALL	YES	TBD	1, 2 & 3
L-2	1	RUSKIN	ELF6375DX	STATIONARY LOUVER	24"	12"	6"	0.90	500	426.1	EXTERIOR WALL	YES	TBD	1, 2 & 3
2. FURNIS	SH WITH IN	ORDINATED WITH O' SECT-SCREEN OPTIC PER MOUNTING HAR	ON.	T BEFORE ORDERING										

			Ε	XHA	UST F	AN SCHED	ULE				
EQUIPMENT TAG	MANUFACTURER	MODEL	SERVICE	FAN C.F.M.	R.P.M.	EXTERNAL STATIC PRESSURE					REMARKS
IAO				C.I .IVI.		INCH H <sub>2</sub> O	POWER	VOLT.	PHASE	HZ.	
EF-1	GREENHECK	BSQ-200	APPARATUS BAY EXHAUST	4,200	868	0.25	1 HP	208	1	60	FURNISH W/ BACKDRAFT DAMPER & DISCONNECT SWITCH
EF-2	GREENHECK	SQ-90-VG	ELECTRIC ROOM	250	1144	0.25	1/10 HP	120	1	60	FURNISH W/ BACKDRAFT DAMPER & DISCONNECT SWITCH
EF-VEX	PLYMOVENT	TEV-559	VEHICLE EXHAUST SYSTEM	3,000	940	0.30	5 HP	208	3	60	FURNISH W/ SYSTEM CONTROLLER & DISCONNECT SWITCH

				С	ONDEN	SING BC	OILER SC	HEDUL	E
EQUIPMENT TAG	MANUFACTURER	MODEL	INPUT MIN.	(MBH) MAX.	THERMAL EFFICIENCY	OUTPUT (MBH)	NET AHRI RATING (MBH)	TURNDOWN RATIO	REMARKS
CB-1	LOCHINVAR	WHB399N	39.9	399	94.4%	377	328	10:1	FURNISH W/ ADD'L HI
CB-2	LOCHINVAR	WHB399N	39.9	399	94.4%	377	328	10:1	FURNISH W/ ADD'L HI

V	RF Syste
1.	VRF PROGRA

COIL UNIT.

### ER SCHEDULE PANEL/FRAME SIZE NECK SIZE MAX (IN.) (IN.) NC DAMPER FINISH NOTES (IN.) 20 OBD WHITE PROVIDE W/ INSULATED BLANKET ON BACKPAN 24"x24" 10"Ø 6"x6" 20 OBD WHITE 8"x8" CLEAR 10"x6" 20 OBD 12"x8" ANOD. FURNISH & INSTALL FULL-SIZE SHEET METAL PLENUM BOX 24"x24" 20"x20" 20 WHITE ON REAR OF GRILLE, PAINT INSIDE FLAT BLACK FURNISH & INSTALL FULL-SIZE INSULATED SHEET METAL 8"x8" 6"x6" 20 WHITE BOX ON REAR OF GRILLE; PAINT INSIDE OF BOX FLAT BLACK FURNISH & INSTALL FULL-SIZE INSULATED SHEET METAL WHITE BOX ON REAR OF GRILLE; PAINT INSIDE OF BOX FLAT BLACK 38"x26" 36"x24" 20 8"x8" 20 - WHITE FURNISH & INSTALL FULL-SIZE INSULATED SHEET METAL BOX ON REAR OF GRILLE; PAINT INSIDE OF BOX FLAT BLACK 10"x10"

2 HP 208 1 60 10.1 15

0.75

EA.

PROVIDE W/ 3kW DUCT HEATER, HIGH EFF. FILTERS,

ECM MOTORS, DISCONNECT SWITCH, MOTORIZED

DAMPERS & TIMER FOR OCCUPIED OPERATION

HIGH LIMIT & LOW WATER CUTOFF HIGH LIMIT & LOW WATER CUTOFF

### AMMABLE WIRED CONTROLLERS SHALL BE FURNISHED BY MECHANICAL CONTRACTOR FOR EACH INDOOR UNIT. CONTROLLERS SHIP LOOSE FOR FIELD INSTALLATION AND WIRING BY THE MECHANICAL CONTRACTOR.

2. MECHANICAL CONTRACTOR TO PROVIDE CENTRAL CONTROLLER FOR LOCAL SET POINT CONTROL AND SYSTEM VIEWING. CONTROLLER TO BE INSTALLED AND WIRING BY MECHANICAL CONTRACTOR. 24V POWER BY ELECTRICAL CONTRACTOR.

3. DISCONNECT SWITCH FOR HEAT PUMP UNITS AND INDOOR UNITS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

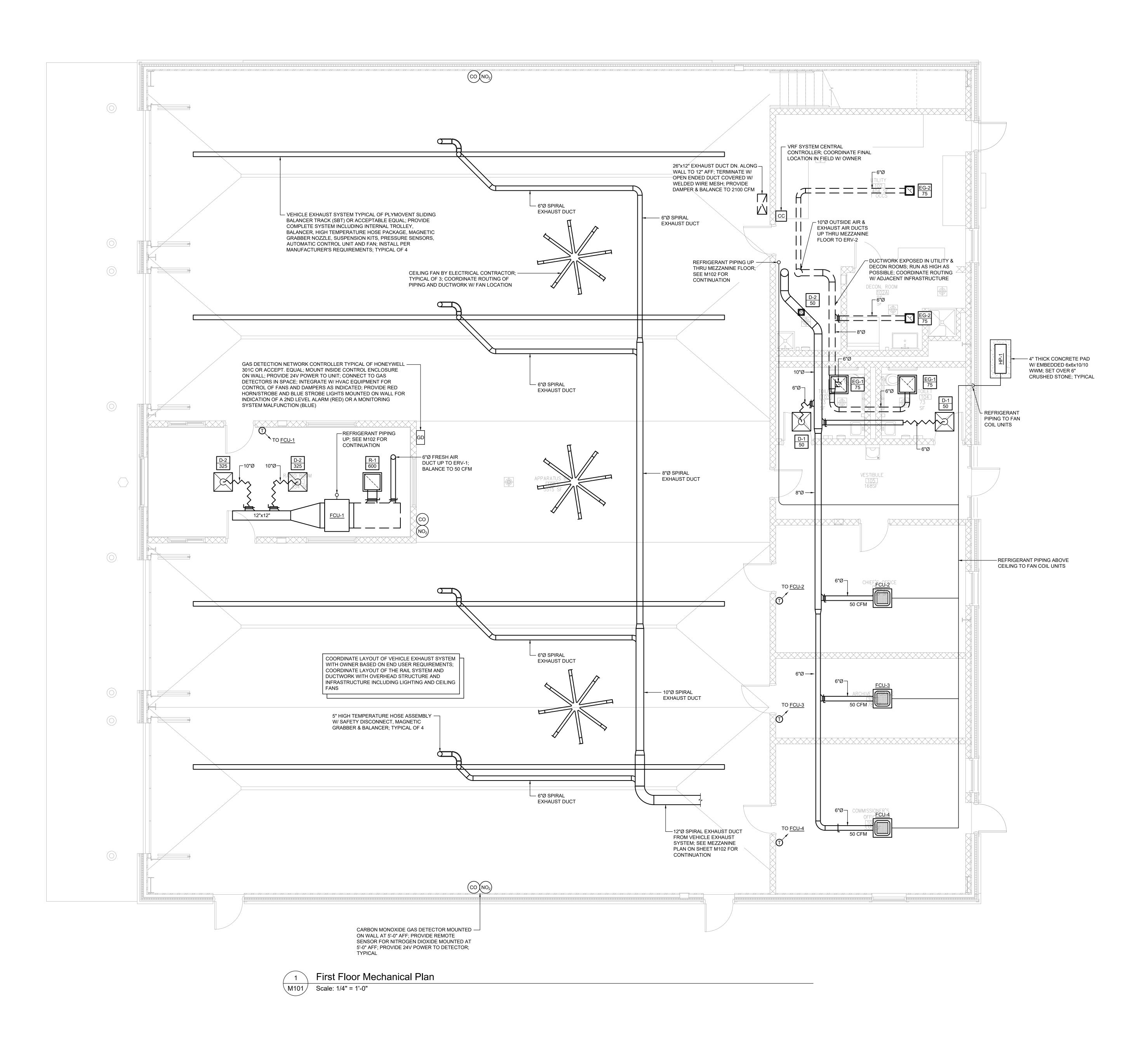
4. EXTERNAL SUPPORTS FOR INDOOR AND HEAT PUMP UNITS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

5. FILTER RACK AND 2" PLEATED MERV-8 FILTERS FOR DUCTED UNITS SHALL FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

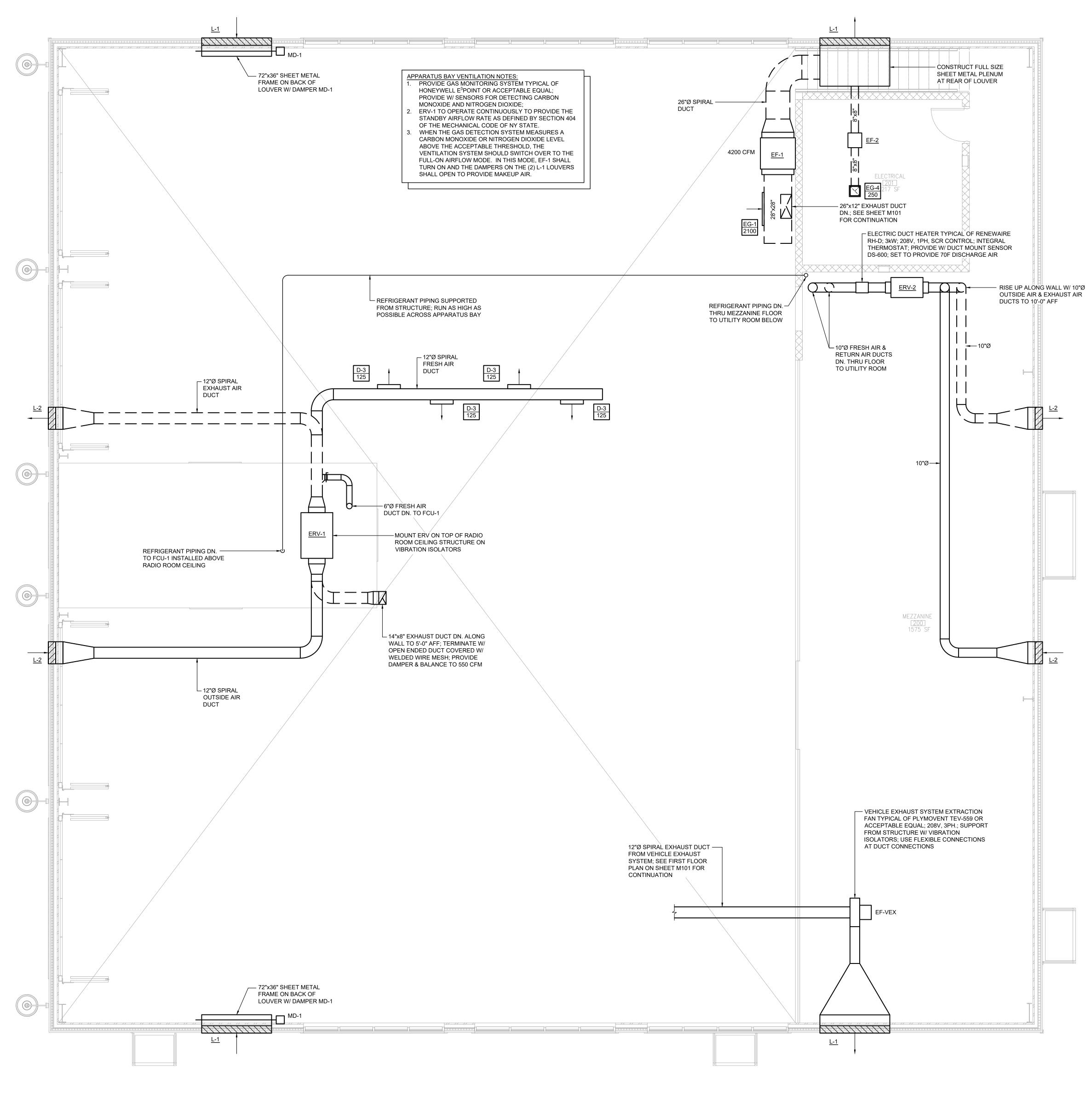
6. CONDENSATE PUMPS SHIP FOR FIELD INSTALLATION BY MECHANICAL CONTRACTOR FOR WALL MOUNTED UNITS. DUCTED UNITS FURNISHED WITH FACTORY MOUNTED CONDENSATE PUMP. MECHANICAL CONTRACTOR TO PROVIDE CONDENSATE PIPING FROM ALL UNITS TO SANITARY DRAIN. FIELD VERIFY EXACT ROUTING AND TERMINATION POINT IN BUILDING.

7. PROVIDE REFRIGERANT ISOLATION VALVES ON LIQUID AND GAS LINES AT EVERY FAN





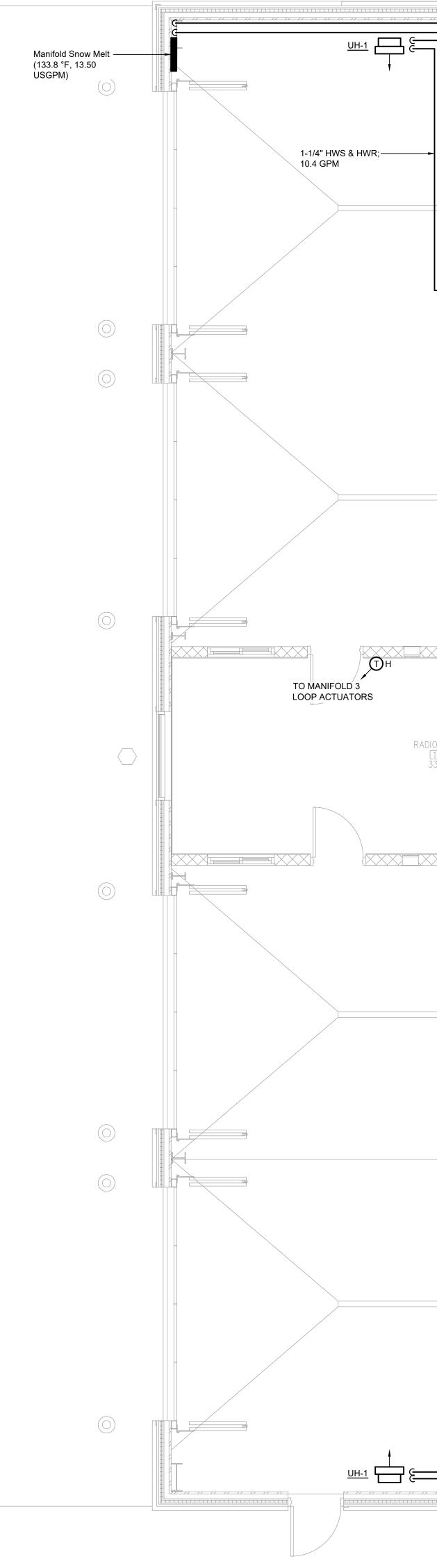




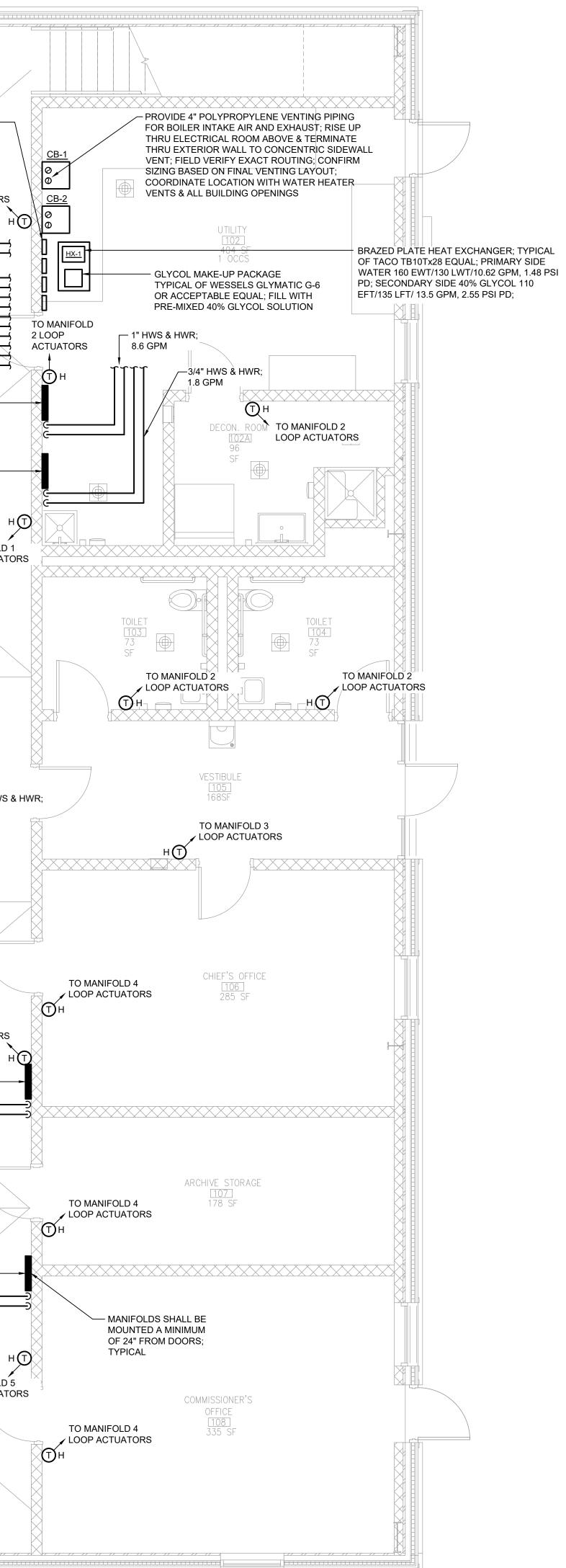
Mezzanine Level Mechanical Plan

M102 Scale: 1/4" = 1'-0"

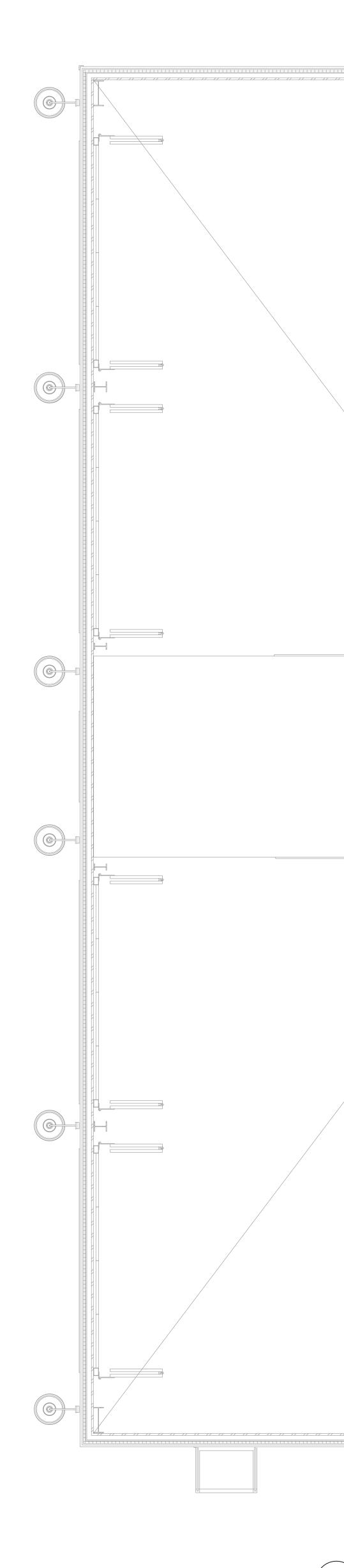


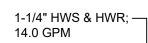


			PROVIDE BOILER CONTROLS IN & #680 CONTROLLERS AND (1) ZONE & (1) TACO #SR504-4 FOU RELAY PANELS. ALL HEATING T WIRED BACK TO RELAY PANELS DIAGRAMS ON SHEET EG002	TACO #SR502-4 TWO
			1-1/4" HWS 14.0 GPM; S FOR CONT	SEE M202 \
		I-1/2" HWS & HWR; 20.8 GPM INSTALL ALL HOT WATER PIPING AS HIGH AS		Manifold 1 (126.9 °F, 8.56 USGPM) Manifold 2 (126.9 °F, 1.76 USGPM) H TO MANIFOLD 1 LOOP ACTUATO
O ROOM		POSSIBLE WITHIN SPACE; COORDINATE LAYOUT & ROUTING W/ ALL ADJACENT INFRASTRUCTURE INCLUDING CEILING FANS, PLUMBING PIPING, DUCTWORK, VEHICLE EXHAUST, ETC. 		
0 ROOM 101 34 SF	TO MANIFOL LOOP ACTU TH TO UH-1	_D 3	1" HWS & HWR;	3/4" HWS & 2 GPM
				TO MANIFOLD 5 LOOP ACTUATORS H Manifold 4 (126.9 °F, 1.99 USGPM) Manifold 5 (126.9 °F, 8.54 USGPM)
				TO MANIFOLD 5 LOOP ACTUATOR

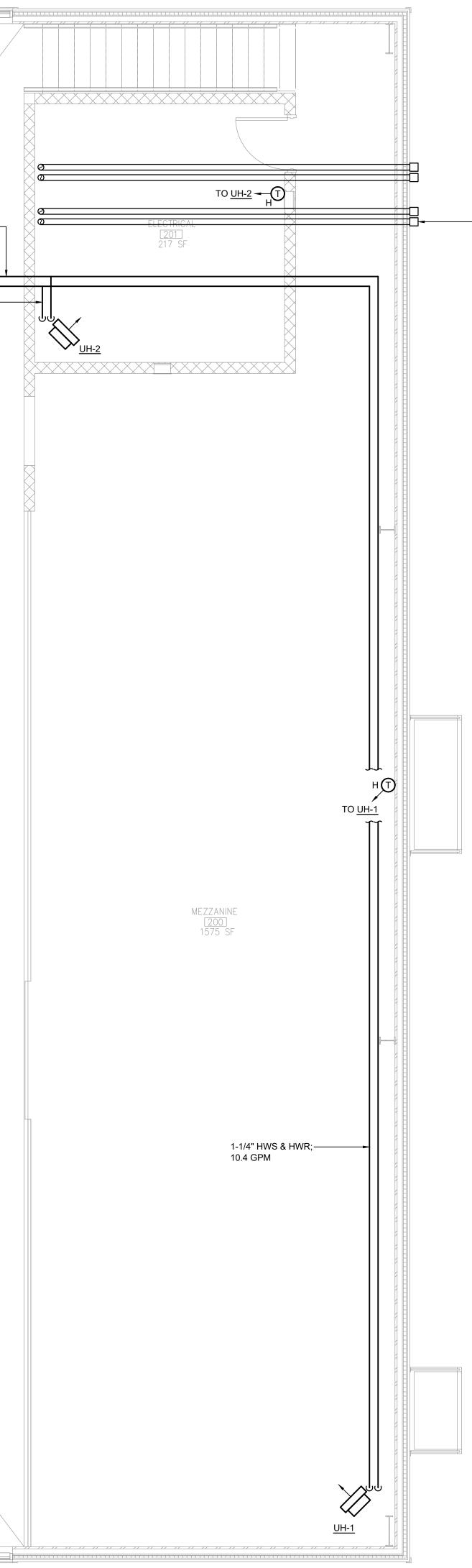






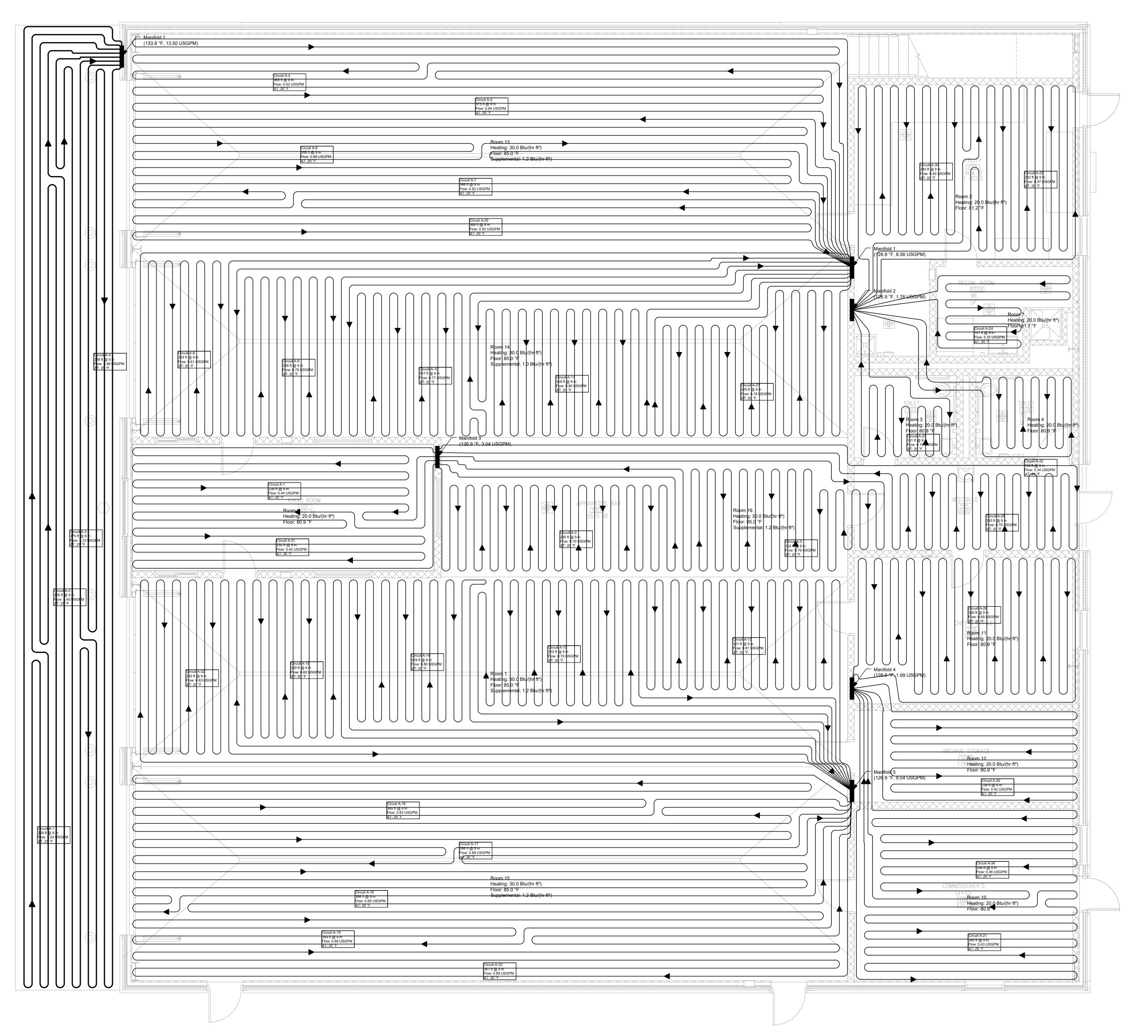


SEE M201 FOR SALE CONTINUATION 3/4" HWS & ------HWR; 3.6 GPM



 PROVIDE 4" POLYPROPYLENE VENTING PIPING
 FOR BOILER INTAKE AIR AND EXHAUST THRU
 EXTERIOR WALL; FIELD VERIFY EXACT ROUTING; CONFIRM SIZING BASED ON FINAL VENTING LAYOUT; COORDINATE LOCATION WITH WATER HEATER VENTS & ALL BUILDING OPENINGS



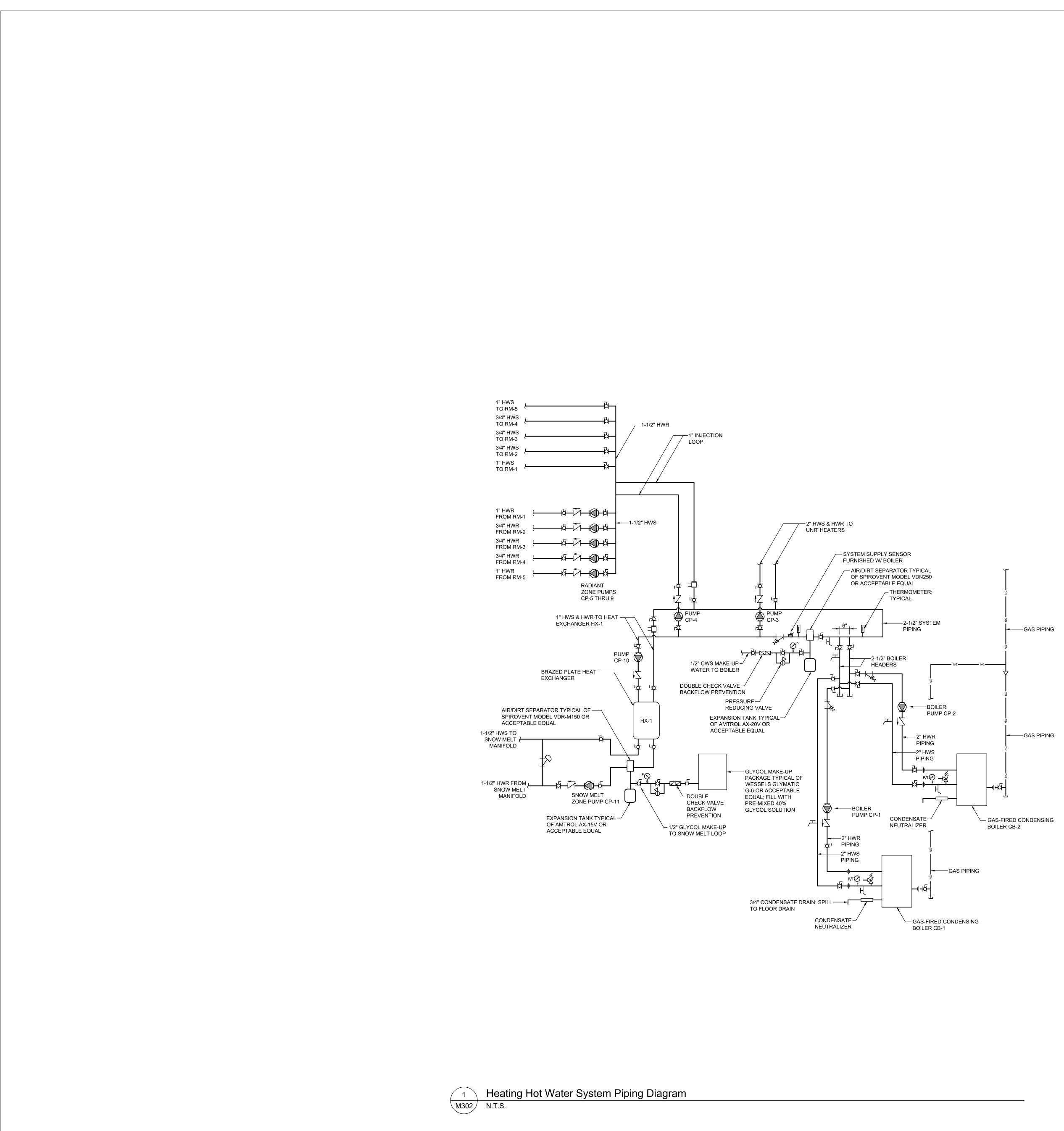


## Infloor Radiant Heating Notes:

- 1. RADIANT FLOOR TUBING LAYOUT IS PROVIDED FOR BIDDING PURPOSES & BASIS OF DESIGN ONLY. CONTRACTOR IS REQUIRED TO PROVIDE DETAILED SHOP DRAWING OF RADIANT FLOOR LAYOUT TO THE ENGINEER FOR REVIEW.
- 2. ALL TUBING IS TO BE TYPICAL OF WATTS RADIANTPEX+ BARRIER TUBING OR ACCEPTABLE EQUAL. ALL TUBING IS TO BE 5/8" IN SIZE WITH THE EXCEPTION OF THE
- SNOW MELT. THE SNOW MELT TUBING IS TO BE 3/4" IN SIZE. 3. ALL RADIANT MANIFOLD SETS ARE TO BE TYPICAL OF WATTS STAINLESS MANIFOLDS W/
- SHUT OFF, BALANCING VALVES & FLOW METERS FOR EACH CIRCUIT.
  4. EACH CIRCUIT SERVING INDIVIDUAL ROOMS IS TO BE EQUIPPED WITH A 24V POWERHEAD FOR ADDITIONAL ZONE CONTROL. FURNISH & INSTALL A HEATING THERMOSTAT TYPICAL OF WATTS DIGITAL THERMOSTAT OR ACCEPTABLE EQUAL IN EACH ROOM TO CONTROL THE INDIVIDUAL POWERHEADS. FURNISH THERMOSTAT WITH SLAB TEMPERATURE
- SENSOR.
  GENERAL CONSTRUCTION CONTRACTOR IS TO FURNISH & INSTALL UNDER-CONCRETE INSULATION UNDER THE ENTIRE RADIANT FLOORING AND SNOW MELT SYSTEMS. UNDERSLAB INSULATION SHALL HAVE A MINIMUM RATING OF R-10. SUBMIT PRODUCT DATA TO ENGINEER & ARCHITECT FOR DESIGN CONFORMANCE REVIEW PRIOR TO ANY WORK. PROPERLY OVERLAP & SEAL ALL JOINTS PER MANUFACTURER'S REQUIREMENTS.
- COORDINATE INSTALLATION W/ GENERAL CONSTRUCTION CONTRACTOR.
   PROPERLY SECURE ALL RADIANT TUBING TO THE WELDED WIRE MESH OR REBAR IN CONCRETE FLOOR.
   RIGID PVC TUBING ELBOWS TO BE USED AS SLEEVES FOR THE PEX TUBING WHEREVER
- IT PENETRATES THE CONCRETE FLOOR. 8. MECHANICAL CONTRACTOR IS TO PRESSURE TEST THE ENTIRE SYSTEM WITH AIR TO 1.5
- TIMES OPERATING PRESSURE, AND THE SYSTEM IS TO REMAIN PRESSURIZED DURING THE CONCRETE POUR.
- 9. MECHANICAL CONTRACTOR IS TO COORDINATE THE ROUTING OF ALL RADIANT TUBING WITH THE GENERAL CONSTRUCTION CONTRACTOR TO ENSURE THAT THE TUBING DOES NOT INCUR DAMAGE DURING THE INSTALLATION OF THE WALL FRAMING.

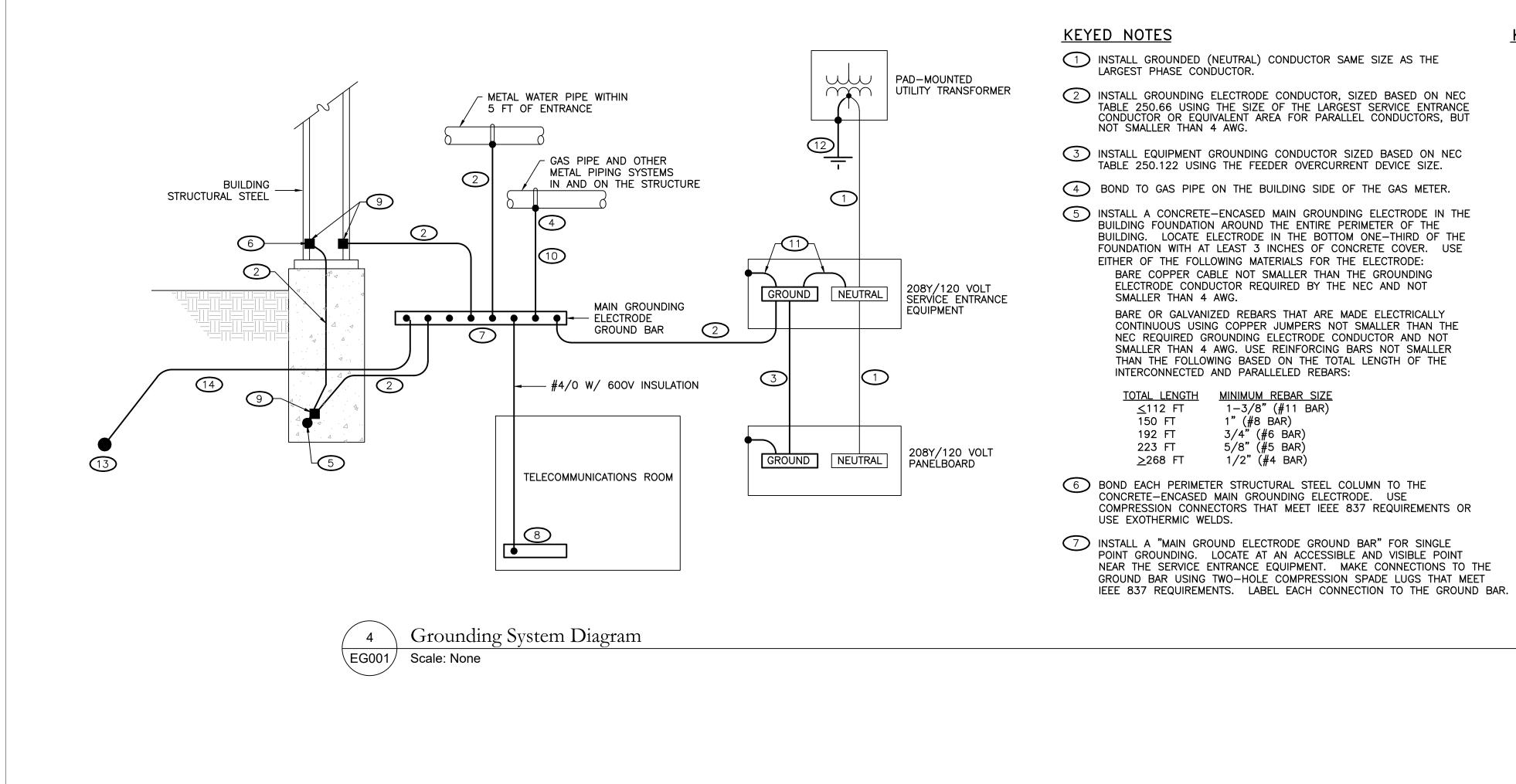
ES & BASIS OF OP DRAWING OF ER TUBING OR EPTION OF THE MANIFOLDS W/ 4V POWERHEAD IOSTAT TYPICAL M TO CONTROL TEMPERATURE DER-CONCRETE MELT SYSTEMS. BMIT PRODUCT PRIOR TO ANY REQUIREMENTS. H OR REBAR IN







	I			GHTING I	FIXTUI	RE SCH	EDULE	, 1		
TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES
A	A	HE WILLIAMS RECESSED DIRECT/INDIRECT PT-22-L26/840-RA-DIM-UNV	LED	120	1	21.3	21.3	RECESSED	2'x2'	4000K COLOR TEMPERATURE
A (EM)	EM A	HE WILLIAMS RECESSED DIRECT/INDIRECT PT-22-L26/840-RA-EM/7W-DIM-UNV	LED	120	1	21.3	21.3	RECESSED	2'x2'	4000K COLOR TEMPERATURE; 90-MINUTE BATTERY BACKUP
В	Ď₽₽	HUBBELL LIGHTING SLIM LED AC/EMERG. OUTDOOR LIGHT CUSO4DB-H-ND	LED	120	1	3.59	3.59	SURFACE MTD.	9.1"x6.3" x2.5"	4000K COLOR TEMPERATURE; PHOTOCELL; HEATER; 90-MINUTE BATTERY BACKUP
С		BOCK LIGHTING GOOSENECK DOME LED SN520-EGXX-IG1/LVEV1-4000-35K-0-10V/42/WB-GN1-GXX	LED	120	1	36	36	SURFACE MTD.	20"Ø	3500K COLOR TEMPERATURE; COLOR TO BE DETERMINED BY ARCHITECT; MOUNT 12'-6" A.F.F. TO CENTER
D	EM D	HE WILLIAMS LED SURFACE WRAP 39-4-L52/840-A-EM/10WLP-DIM-UNV	LED	120	1	37.2	37.2	SURFACE MTD.	48"x10 <sup>1</sup>	4000K COLOR TEMPERATURE
D (EM)	D	HE WILLIAMS LED SURFACE WRAP 39-4-L52/840-A-DIM-UNV	LED	120	1	37.2	37.2	SURFACE MTD.	48"x10 <sup>1</sup> "	4000K COLOR TEMPERATURE; 90-MINUTE BATTERY BACKUP
F	F	HE WILLIAMS LINEAR LED HIGHBAY GL-4-L200/840-DRV-UNV	LED	120	1	148	148	SUSPENDED	48"x14 <u>3</u> "	4000K COLOR TEMPERATURE; FURNISH W/ CABLE SUSPENSION KIT & HAND 20'-0" A.F.F.
F (EM)	EM	HE WILLIAMS LINEAR LED HIGHBAY GL-4-L200/840-EM/12W/BMTD-DRV-UNV	LED	120	1	148	148	SUSPENDED	48"x14 <u><sup>3</sup></u> "	4000K COLOR TEMPERATURE; 90-MINUTE BATTERY BACKUP; FURNISH W/ CABLE SUSPENSION KIT & HANI 20'-0" A.F.F.
G	G	HE WILLIAMS ENCLOSED & GASKETED LED 96-4-L40/840-HIAFR-DRV-UNV	LED	120	1	30	30	SURFACE MTD.	48"x7 <del>8</del> "	4000K COLOR TEMPERATURE; WET LOCATION LISTED
Н	<b>⊢o</b>	WAC LIGHTING LED WALL MOUNT DS-WD06-F35C-BZ	LED	120	2	35	70	WALL MTD.	6 <sup>3</sup> /8"x17 <sup>7</sup> /8"	3500K COLOR TEMPERATURE; COLOR TO BE DETERMINED BY ARCHITECT; MOUNT 12'-6" A.F.F. TO CENTER
-	⊗	BEGHELLI LIGHTING LED EXIT SIGN FME-SA-LR-U-M	LED	120	1	2	2	UNIVERSAL	-	90-MINUTE BATTERY BACKUP



	WIRE COLOR CODING TABLE											
PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	GROUND					
1	2 (1)	120	BLACK	-	-	WHITE	-					
1	2 (1)	208	BLACK	RED	-	-	-					
1	3	120	BLACK	-	-	WHITE	GREEN (2)					
1	3	208	BLACK	RED	-	-	GREEN (2)					
3	4	208	BLACK	RED	BLUE	-	GREEN (2)					
3	5	208	BLACK	RED	BLUE	WHITE	GREEN (2)					
1	3	277	BROWN	-	-	GRAY	GREEN (2)					
1	3	277	BROWN	ORANGE	-	-	GREEN (2)					
3	4	480	BROWN	ORANGE	YELLOW	-	GREEN (2)					
3	5	480	BROWN	ORANGE	YELLOW	GRAY	GREEN (2)					
-	1. FOR DOUBLE INSULATED EQUIPMENT ONLY.											

- GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES - GREEN = 50 TO 70%, YELLOW = 50 TO 30%. - GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR USE AS AN EQUIPMENT GROUNDING CONDUCTOR.

- GREEN OR GREEN/YELLOW MUST ONLY BE USED FOR GROUNDING CONDUCTORS.

DEVICE MOUNTING	G HEIGHTS						
POWER RECEPTACLES (INTERIOR)	18" A.F.F.						
POWER RECEPTACLES (EXTERIOR)	36" A.F.G.						
POWER RECEPTACLES (@ COUNTER)	44" A.F.F.						
LIGHT SWITCHES	44" A.F.F. TO TOP OF DEVICE						
DISCONNECT SWITCHES	SEE NEC 404.8(A)						
TELEPHONE/DATA RECEPTACLES	18" A.F.F.						
TELEPHONE/DATA RECEPTACLES (@ COUNTER)	44" A.F.F.						
WALL TELEPHONE RECEPTACLES	48" A.F.F. TO TOP OF DEVICE						
FIRE ALARM PULL STATIONS	42" A.F.F. MIN./44" A.F.F. MAX.						
FIRE ALARM AUDIO/VISUAL DEVICES	80" A.F.F. MIN./96" A.F.F. MAX.						
EXIT LIGHTS (WALL MOUNTED)	12" ABOVE DOOR						
EMERGENCY LIGHTS (WALL MOUNTED)	90" A.F.F.						
TV & A/V OUTLETS	18" A.F.F.						
NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVIC	NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED						

	KEYED	NOTES	(CONTINUED)
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- (8) INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
- PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
- 10 INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SIZE OF THE LARGEST SERVICE ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS.
- 11 INSTALL BONDING JUMBER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SIZE OF THE LARGEST SERVICE ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS.
- 12 INSTALL 2/0 AWG STR. BARE TINNED COPPER GROUNDING ELECTRODE CONDUCTOR RING & (2) 5/8" x 8' LONG COPPERCLAD GROUND RODS IN ACCORDANCE WITH UTILITY CO. REQUIREMENTS
- 13 LIGHTNING PROTECTION COUNTERPOISE 4/0 AWG COPPER.
- 14 BOND THE LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO THE MAIN GROUND ELECTRODE GROUND BAR. USE 4/0 AWG COPPER CABLE WITH 600 VOLT INSULATION. AT THE UNDERGROUND CONNECTION USE A COMPRESSION CONNECTOR THAT MEETS IEEE 837 REQUIREMENTS OR USE AN EXOTHERMIC WELD

### GENERAL NOTES

- CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND
- 3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH 4. METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE.

### ELECTRICAL LEGEND:

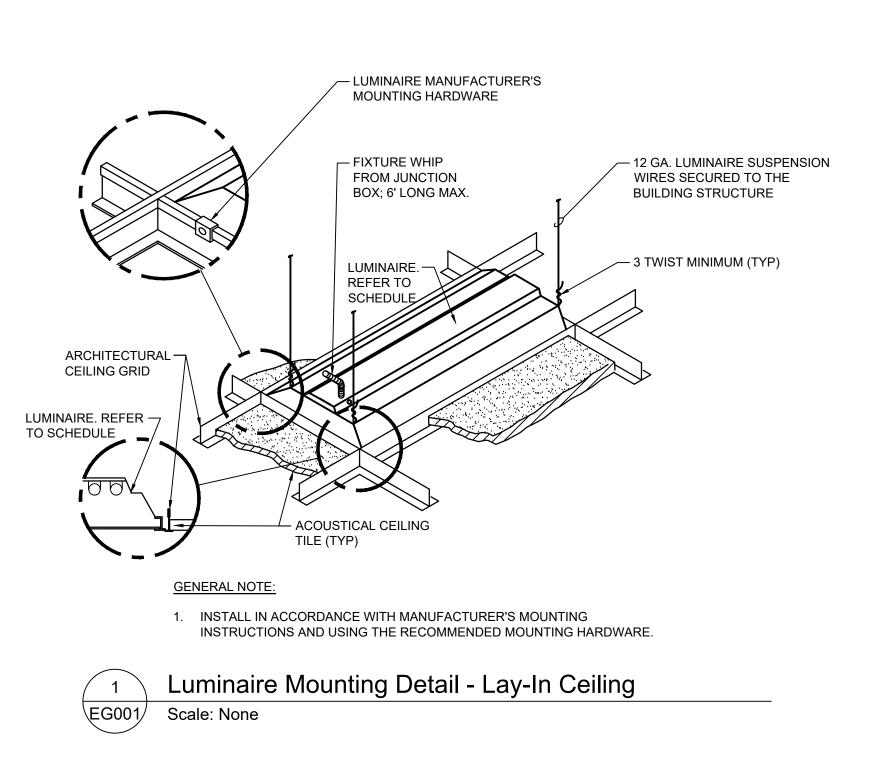
		J
Ø	MOTOR	
$\frac{1}{\overline{z}}$	EARTH GROUND	
Q	JUNCTION BOX	
PB	PULL BOX	
	FUSE WITH RATING MOLDED CASE CIRCUIT BREAKE	D
( )		
4∕⊒	DISCONNECT SWITCH, FUSED	)
4	STARTER, COMBINATION WITH D	DISCONNECT SWITCH
	STARTER OR MOTOR CONTROLI	.ER
$\overline{\mathbb{M}}$	METER	
0	20A 120V DUPLEX CEILING MOUN	NTED RECEPTACLE
€	20A 120V DUPLEX WALL MOUNTE OTHERWISE NOTED	ED RECEPTACLE; 18" A.F.F. UNLESS
#	20A 120V DUPLEX WALL MOUNT FAULT CIRCUIT INTERRUPTER	ED RECEPTACLE WITH GROUND
<b>#</b>	20A 120V QUADRAPLEX RECEPT	ACLE
-⊗	WALL MOUNTED SPECIAL PURPO	OSE RECEPTACLE
€USB	20A 120V WALL MOUNTED USB C HUBBELL USB20X OR ACCEPTAE	CHARGER RECEPTACLE TYPICAL OF
€		AL; PUSH BUTTON OPEN; FULLY IP66 I CLOSED POSITION); W/ 20A 125V
$\Delta_{M}$	WALL PHONE OUTLET MTD. 48" ABOVE CEILING W/ PULL CORD	A.F.F.; 3/4" EMT CDT. IN WALL TO
$\diamond$	WALL BOX FOR TELEVISION CON TO ABOVE CEILING W/ PULL COP	NNECTION; 1-1/4" EMT CDT. IN WALL
$\Psi$	TELEPHONE/DATA COMMUNICA WALL TO ABOVE CEILING W/ PUI	
ŧ	BRANCH CIRCUIT HOMERUN; LI NEUTRAL, AND SWITCH LEG CO GROUNDING CONDUCTOR SHAL HOMERUN; NOT SHOWN	
<b>\$</b> 2	SWITCH BLANK = SINGLE POLE 3 = THREE-WAY D = DIMMER P = WITH PILOT LIGHT T = TIMER OPERATED X = EXPLOSION PROOF	2 = DOUBLE POLE 4 = FOUR-WAY K = KEY OPERATED PB= PUSH BUTTON WP= WEATHER PROOF OC= OCCUPANCY SENSOR
<u>os</u>	DUAL TECHNOLOGY OCCUPANO	CY SENSOR
DS	DAYLIGHT SENSOR	
$\boxtimes \triangleleft$	HORN/STROBE DEVICE, ONE AS OTHERWISE NOTED; 15 CANDEL	SEMBLY; MTD. 80" A.F.F. UNLESS A UNLESS OTHERWISE NOTED
$\boxtimes$	STROBE DEVICE; MTD. 80" A.F.F CANDELA UNLESS OTHERWISE	. UNLESS OTHERWISE NOTED; 15 NOTED
$\diamondsuit$	MANUAL PULL STATION; MTD. 48	8" A.F.F.
	WATER FLOW SWITCH	
	VALVE TAMPER SWITCH	
Øx	DETECTOR; LETTER INDICATES BLANK = SMOKE DETECTOR P = PHOTOELECTRIC SMOKE M = MULTIPLE STATION SMOKE D = PHOTOELECTRIC DUCT SMO FSD = DUCT SMOKE DETECTOR	ALARM DKE DETECTOR
⊕ <sub>R</sub>	RATE OF RISE HEAT DETECTOR	, 135°F
CO	CARBON MONOXIDE DETECTOR	; MTD. 60" A.F.F.
FACP	ADDRESSABLE FIRE ALARM CO	NTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PAN	IEL
RTS	REMOTE TEST SWITCH & LED FO	OR DUCT SMOKE DETECTORS
R	FIRE ALARM RELAY	

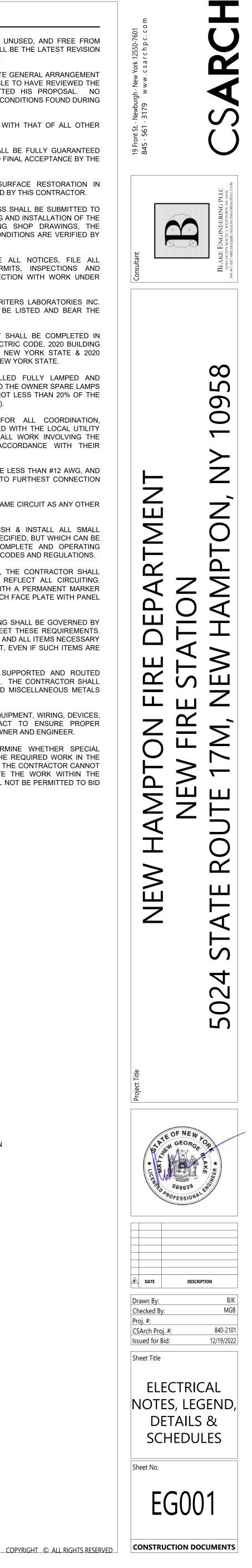
### ELECTRICAL NOTES:

- 1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- 3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- 4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- 6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- 7. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- 8. EQUIPMENT AND MATERIALS FOR WHICH UNDERWRITERS LABORATORIES INC. (UL) PROVIDES PRODUCT LISTING SERVICE SHALL BE LISTED AND BEAR THE LISTING MARK.
- 9. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2017 NATIONAL ELECTRIC CODE, 2020 BUILDING CODE OF NEW YORK STATE, 2020 FIRE CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- 10. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED FULLY LAMPED AND OPERABLE. THE CONTRACTOR SHALL TURN OVER TO THE OWNER SPARE LAMPS OF EVERY TYPE ON THE PROJECT IN AN AMOUNT NOT LESS THAN 20% OF THE TOTAL NUMBER OF EACH TYPE (MINIMUM 1 PER TYPE).
- 11. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL UTILITY COMPANY AND/OR THE TELEPHONE COMPANY. ALL WORK INVOLVING THE UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- 12. ALL CONDUCTORS SHALL BE COPPER, SHALL NOT BE LESS THAN #12 AWG, AND SHALL NOT EXCEED 70 FEET FROM PANEL BOARD TO FURTHEST CONNECTION UNLESS OTHERWISE NOTED ON PLANS.
- 13. LIGHTING LOADS SHALL NOT BE COMBINED ON THE SAME CIRCUIT AS ANY OTHER ELECTRICAL LOADS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL SMALL DETAILS AND INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH CAN BE REASONABLY INFERRED AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM OF HIGH QUALITY MEETING ALL APPLICABLE CODES AND REGULATIONS.
- 15. FOR EACH NEW OR MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT ALL CIRCUITING. ADDITIONALLY, THE CONTRACTOR SHALL LABEL (WITH A PERMANENT MARKER OR LABEL) EACH RECEPTACLE ON THE INSIDE OF EACH FACE PLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATION.
- 16. MINIMUM REQUIREMENT FOR EQUIPMENT GROUNDING SHALL BE GOVERNED BY THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS AT NO EXTRA COST, EVEN IF SUCH ITEMS ARE NOT DETAILED ON THE DRAWINGS.
- 17. ALL CONDUIT AND CABLE SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- 18. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, WIRING, DEVICES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 19. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

(9) INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-

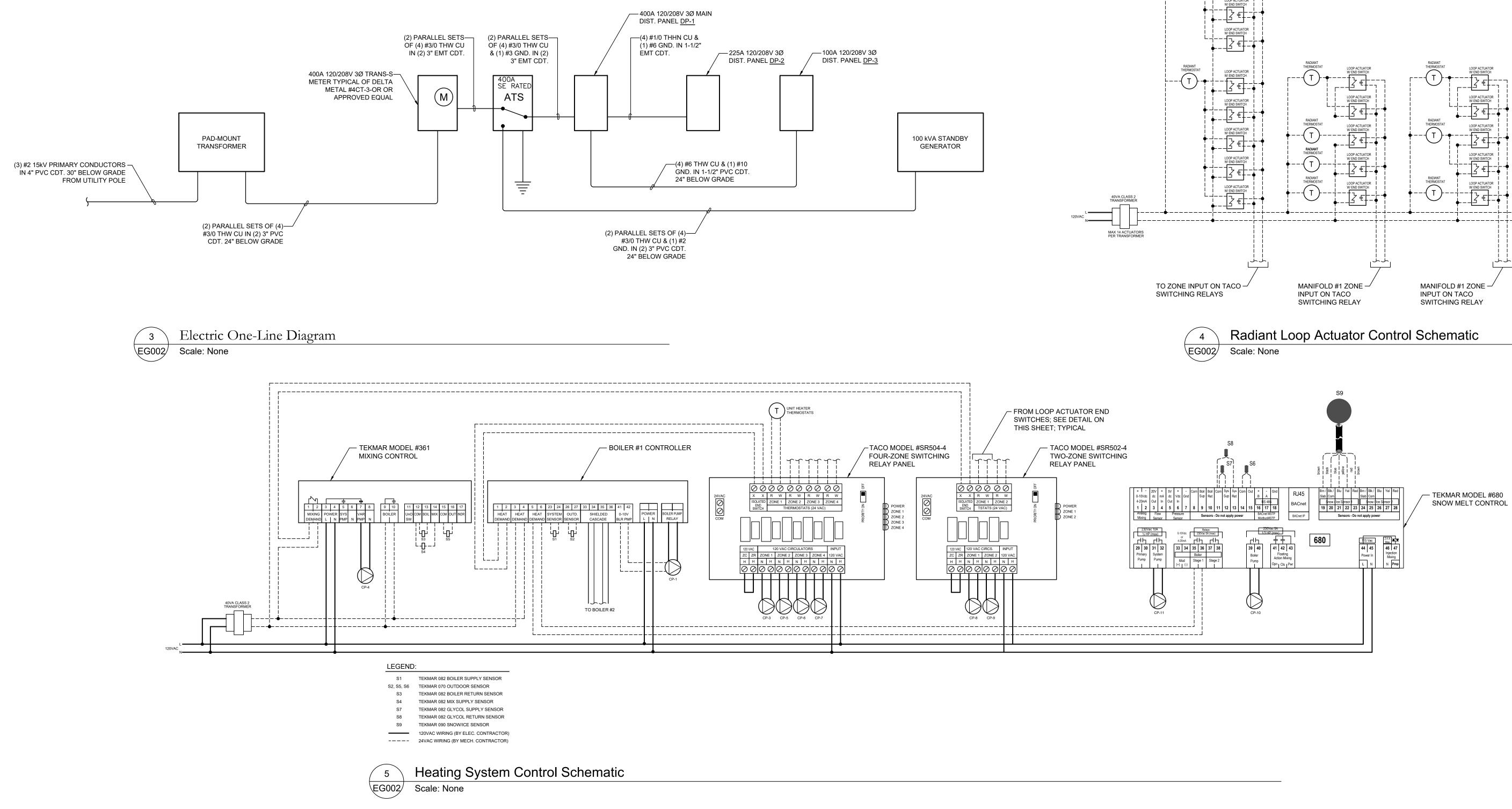
ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.





120/208V 3Ø 4W+G				BUS	RATIN	G: 400A				400A MCB	120/208V 3Ø 4W+G				BU	S RATING	i: 225A				MAIN LUGS ONL
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	NOITISO		CONDUCTORS	CONNECTED LOAD	CONNECTED LOAD	CONDUCTORS	CKT. BREAKER	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAI
			1 1	0.50 5.04			2	2			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	1	0.90	90		2		(2) #12 CU & (1) #12 GND.	RECEPTACLES
SUB-PANEL DP-2	(4) #1/0 CU & (1) #6 GND.	150			10.50 5.0	1	4	60	(3) #4 CU & (1) #10 GND.	CASCADE FILL STATION	RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	3		0.90		4	20	(2) #12 CU & (1) #12 GND.	RECEPTACLE
			5			10.50	04 6	5			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20				0.90 0.90	6	20	(2) #12 CU & (1) #12 GND.	RECEPTACLE
			7 4	.20 2.50			8	3			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	7	0.90	90		8	20	(2) #12 CU & (1) #12 GND.	RECEPTACLE
WASHING MACHINE	(4) #6 CU & (1) #10 GND.	50	9		4.20			0 40	(4) #6 CU & (1) #10 GND.	EXTERIOR PANEL DP-3	RECEPTACLES	(2) #12 CU & (1) #12 GND.	20			0.90	1	10	20	(2) #12 CU & (1) #12 GND.	RECEPTACLE
			11		Ĩ	4.20	50 12	2			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	11			0.90 0.90	12	20	(2) #12 CU & (1) #12 GND.	RECEPTACLE
			13 4	.20 2.00	1		14	4			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	13	0.90	90		14	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
AIR COMPRESSOR	(3) #6 CU & (1) #10 GND.	50	15		4.20		10	6 25	(3) #10 CU & (1) #10 GND.	VEHICLE EXHAUST FAN	RECEPTACLES	(2) #12 CU & (1) #12 GND.	20		- F	0.90	1	16	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
			17		Í	4.20	00 18	8			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	17			0.90	18	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
			19 <sup>2</sup>	.85 0.32	1		2	0			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	19	0.90	90		20	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
HEAT PUMP HP-1	(2) #8 CU & (1) #10 GND.	40	21		2.85	,	2	2 20	(2) #12 CU & (1) #12 GND.	FAN COIL UNITS	RECEPTACLES	(2) #12 CU & (1) #12 GND.	20			0.90		22	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
	(2) #12 CIL 8 (1) #12 CND 15 23 0.80 1.50	50 24	24 (2) #1			RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	23			0.90	24	20	(2) #12 CU & (1) #12 GND.	RECEPTACLE					
ERV-1	(2) #12 CU & (1) #12 GND.	15	25 <sup>0</sup>	.80	1	T i	2	6	(2) #12 CU & (1) #12 GND.	ELEC. DUCT HEATER	LIGHTING	(2) #12 CU & (1) #12 GND.	20	25	0.80	30			20	(2) #12 CU & (1) #12 GND.	LIGHTIN
		1.5	27		0.83	5	2	8 45			LIGHTING	(2) #12 CU & (1) #12 GND.	20		-r	0.80		28	20	(2) #12 CU & (1) #12 GND.	LIGHTING
EF-1	(2) #12 CU & (1) #12 GND.	15	29			0.83	05 30	0	(2) #12 CU & (1) #12 GND.	ERV-2	LIGHTING	(2) #12 CU & (1) #12 GND.	20	29			0.80	30	20	(2) #12 CU & (1) #12 GND.	LIGHTING
		45	31 0	.83	1	ſ	3	2 20	(2) #12 CU & (1) #12 GND.	BOILER & CONTROLS	LIGHTING	(2) #12 CU & (1) #12 GND.	20	31	0.80	30		32		(2) #12 CU & (1) #12 GND.	LIGHTING
CEILING FAN	(2) #12 CU & (1) #12 GND.	15	33		0.83	2	34	4 20	(2) #12 CU & (1) #12 GND.	BOILER & CONTROLS	LIGHTING	(2) #12 CU & (1) #12 GND.	20	_		0.80		34	20	(2) #12 CU & (1) #12 GND.	LIGHTING
		45	35		ľ	0.83	00 36	6 20	(2) #12 CU & (1) #12 GND.	PUMPS	CORD REEL	(2) #12 CU & (1) #12 GND.	20	35		Í	0.90	36	20	(2) #12 CU & (1) #12 GND.	CORD REE
CEILING FAN	(2) #12 CU & (1) #12 GND.	15	37 <sup>0</sup>	.83		T	3	8 20	(2) #12 CU & (1) #12 GND.	PUMPS	CORD REEL	(2) #12 CU & (1) #12 GND.	20	37	0.90	90				(2) #12 CU & (1) #12 GND.	CORD REE
		45	39		0.83		4	0 20	(2) #12 CU & (1) #12 GND.	PUMPS	FIRE ALARM PANEL	(2) #12 CU & (1) #12 GND.		39	-	1.00		40	20	(2) #12 CU & (1) #12 GND.	IT RECEPTACLE
CEILING FAN	(2) #12 CU & (1) #12 GND.	15	41			0.83	80 42	2 15	(2) #12 CU & (1) #12 GND.	LOUVER DAMPERS	ELEC. ROOM EXHAUST	(2) #12 CU & (1) #12 GND.	15	41		Í	0.10	42	20	(2) #12 CU & (1) #12 GND.	IT RECEPTACLE
UNIT HEATER	(2) #12 CU & (1) #12 GND.	15	43 0	.85		T		4 15	(2) #12 CU & (1) #12 GND.	UNIT HEATER	TANK ALARM	(2) #12 CU & (1) #12 GND.	20	43	0.18			44	20	-	SPAR
UNIT HEATER	(2) #12 CU & (1) #12 GND.		45		0.85	5	4	6 15	(2) #12 CU & (1) #12 GND.	UNIT HEATER	SPARE	-	20	45	Í	•/.		46	20	-	SPAR
		00	47		ľ	0.73	10 48	8			SPARE	-	20	47			•	48	20	-	SPARE
WELL PUMP	(2) #10 CU & (1) #10 GND.	20	49 <sup>0</sup>	.73		T		0 15	(4) #12 CU & (1) #12 GND.	DRYER	SPARE	-	20	49				50	20	-	SPARE
			51		1.01		5	2			SPARE	-	20	51	Í	-/.		52	20	-	SPAR
MOTORIZED DOORS	(2) #12 CU & (1) #12 GND.	20	53		Í	1.01	10 54	4 20	(2) #12 CU & (1) #12 GND.	GEN. BATT. CHARGER	SPARE	-	20	53			•	54	20	-	SPARE
	(2) #12 CU & (1) #12 GND.	20		.01		ſ	5	6 20	(2) #12 CU & (1) #12 GND.	RADIO TOWER	SQUARE 'D' NQ PANELBO	ARD; NEMA 1; SURFACE MTD.			12.48	12.60	11.90	36.9	98 kVA	TOTAL	
MOTORIZED DOORS	(2) # 12 CO & (1) # 12 GND.	20	57		1.01		5	8 20	(2) #12 CU & (1) #12 GND.	TANK LEVEL											
HAND DRYER	(2) #12 CU & (1) #12 GND.	20	59			1.60	60 60	0 20	(2) #12 CU & (1) #12 GND.	HAND DRYER											
GAS DETECTION CONTROL	(2) #12 CU & (1) #12 GND.	20	61	·/.	1	T	6	2 20	-	SPARE	🖉 2 🔪 Distribu	ition Panel DP-2									
SPARE	-	20	63		•	1	64	4 20	-	SPARE	EG002 Scale: None	е									
SPARE	-	20	65		ſ	-	_ 60	6 20	-	SPARE											
SPARE	-	20	67	-/_	1	1	6	8 20	-	SPARE											
SPARE	-	20	69		- /	1	7	0 20	-	SPARE											
SPARE	-	20	71		ſ	· /	7	2 20	_	SPARE											

Main Distribution Panel DP-1 EG002 Scale: None

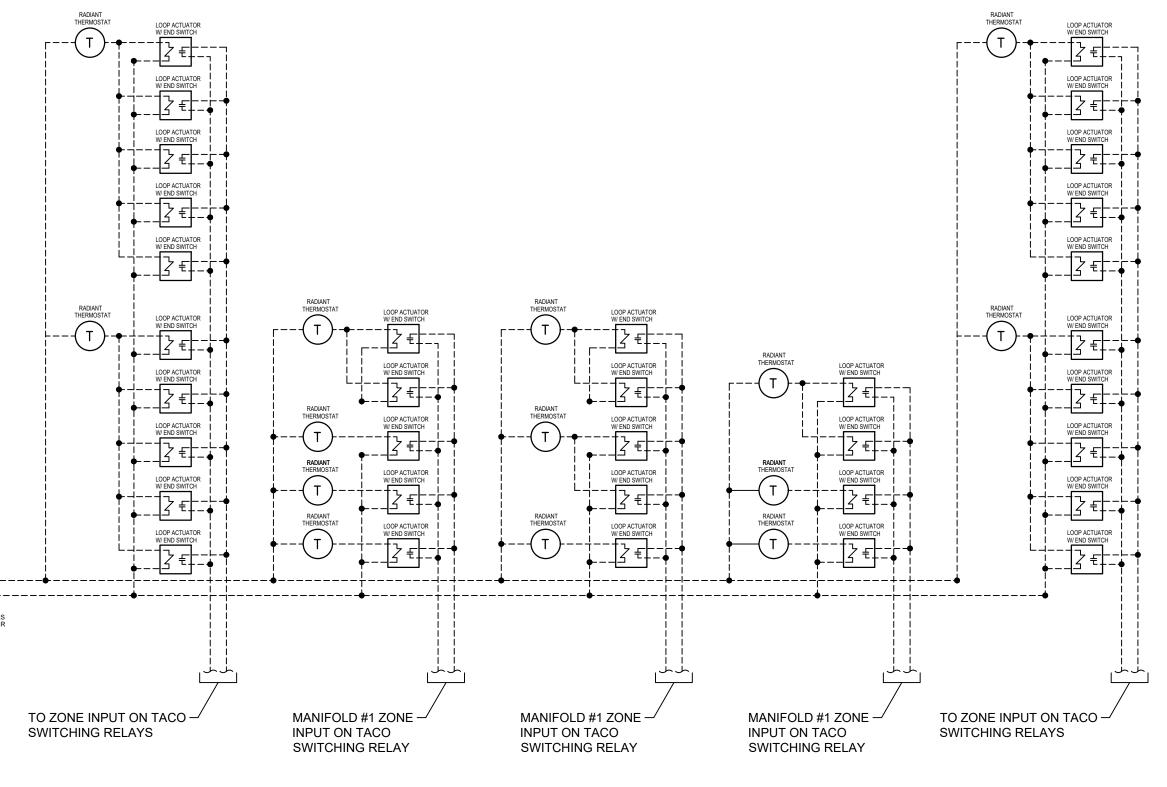


120/208V 3Ø 4W+G			_	BUS	RATING	: 100A				MAIN LUGS ONLY
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY		L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
FLAG POLE LIGHTS	(2) #12 CU & (1) #12 GND.	20	1	0.10			2	20	-	SPARE
LED STREET SIGN	(2) #12 CU & (1) #12 GND.	20	3		0.90		4	20	-	SPARE
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	5			0.90	6	20	-	SPARI
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	7	0.90			8	20	-	SPAR
-	-	-	9	Í	•		10	-	-	
-	-	-	11		ſ	•	12	-	-	
-	-	-	13	•			14	-	-	
-	-	-	15	Í	•		16	-	-	
-	-	-	17			•	18	-	-	
SQUARE 'D' NQ PANELBO	ARD; NEMA 3R; SURFACE MTD.	-	-	1.00	0.90	0.90	2.8	0 kVA	TOTAL	

Distribution Panel DP-3

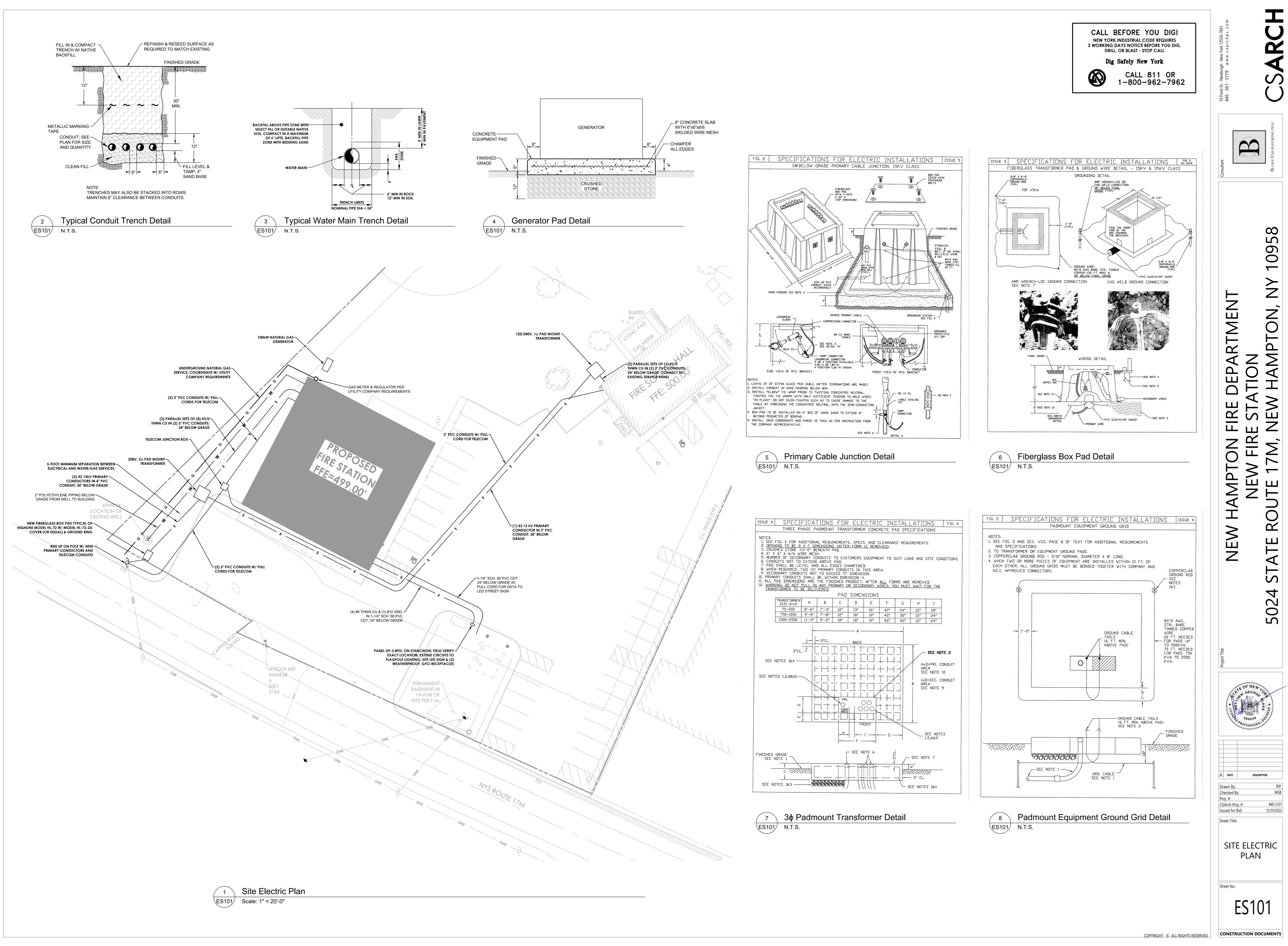
3

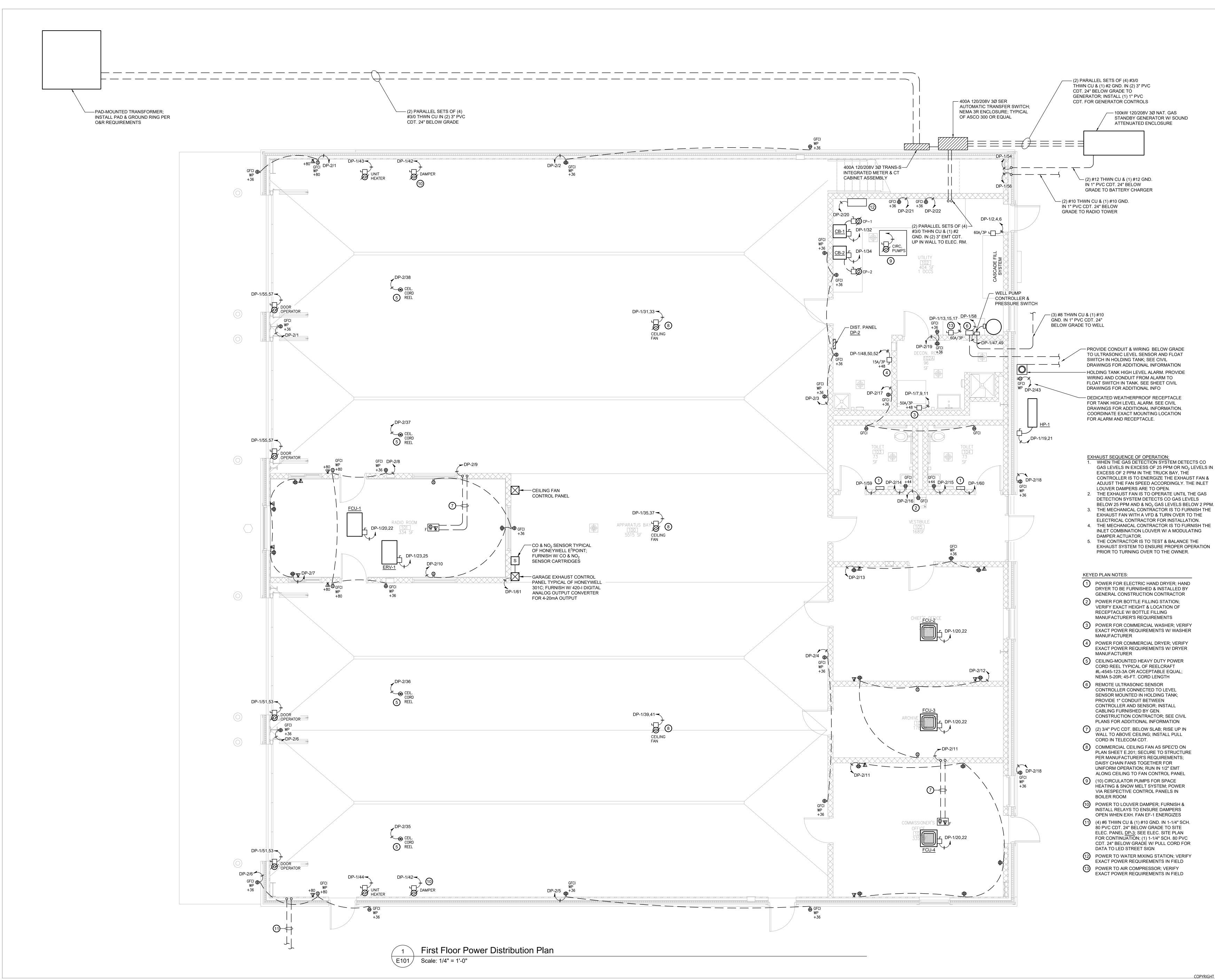
EG002 Scale: None



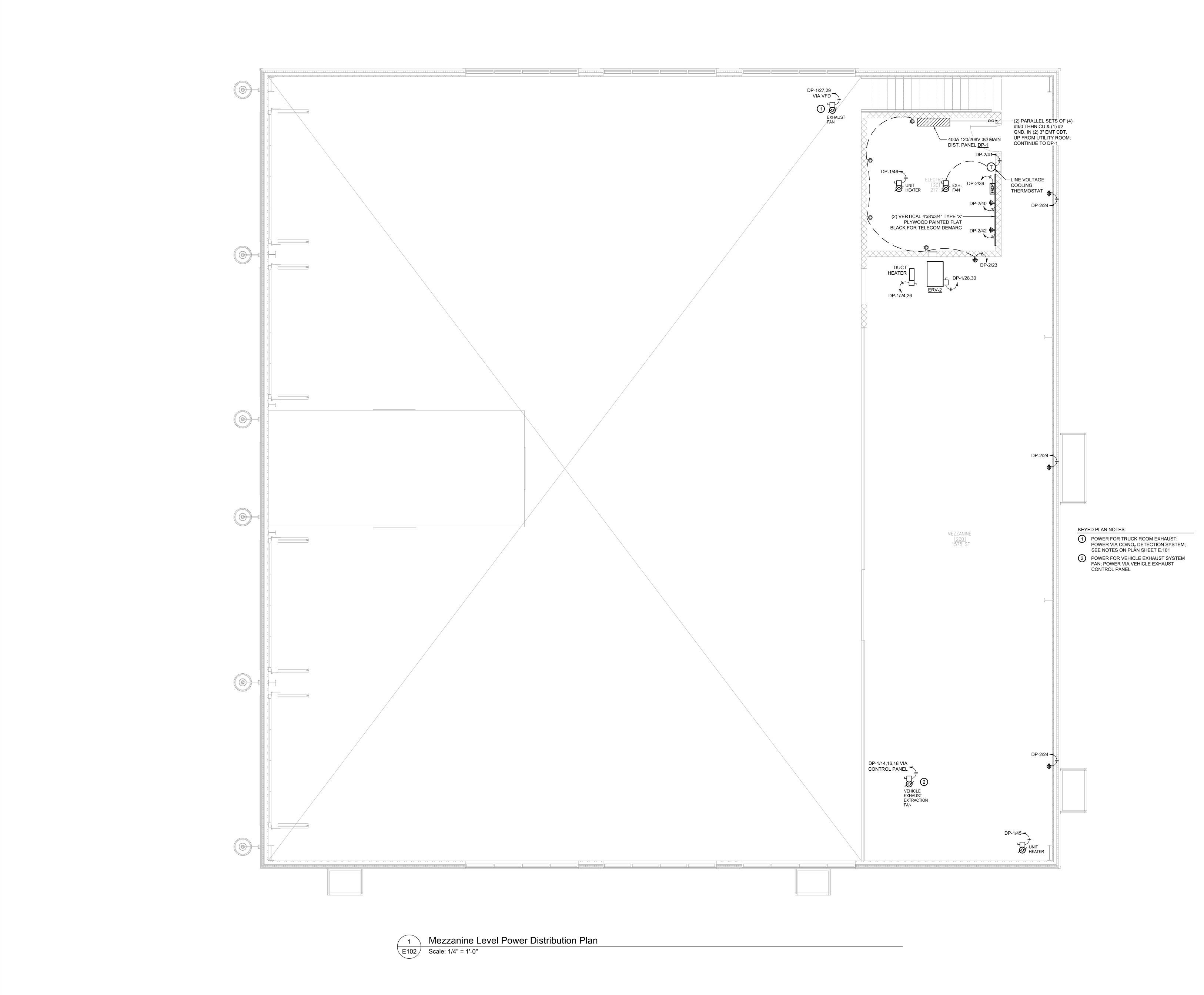




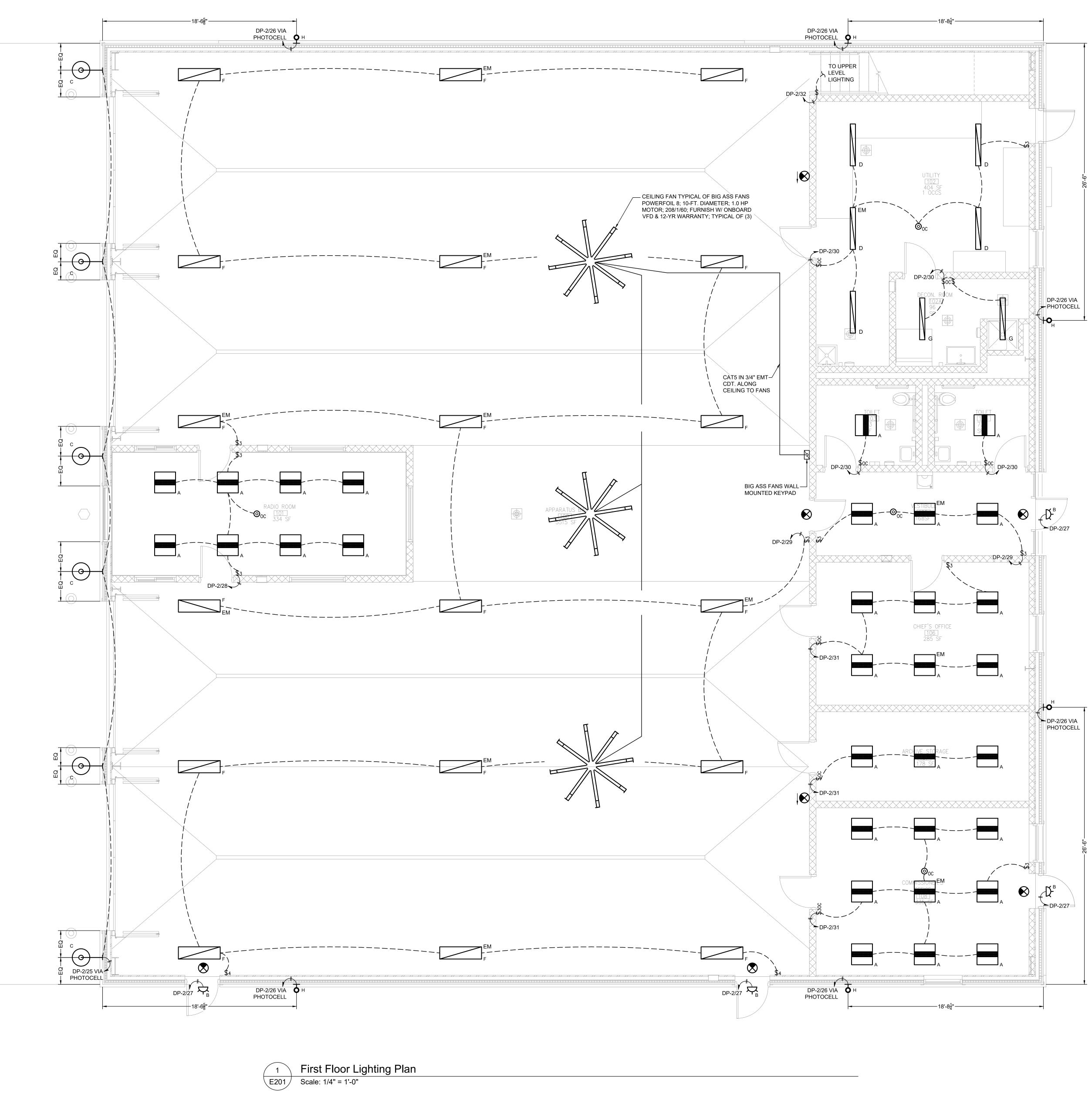




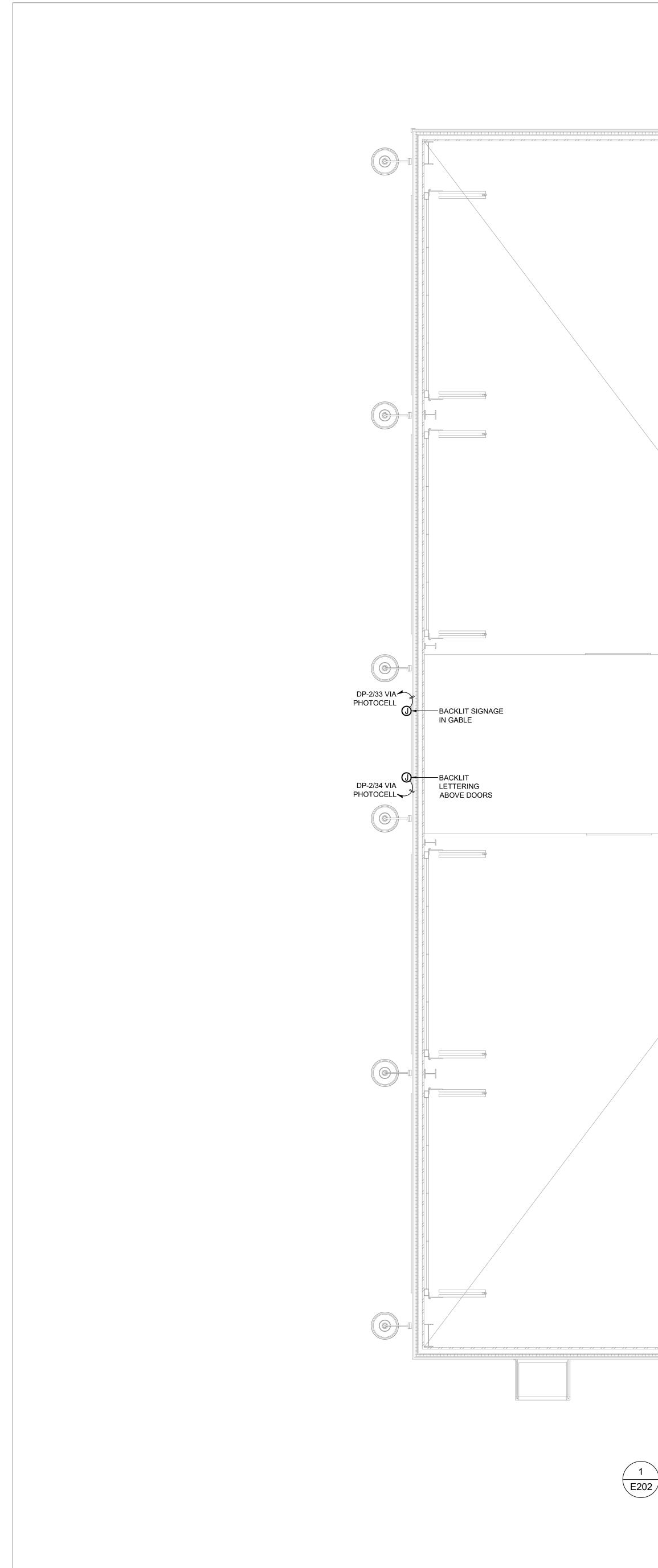




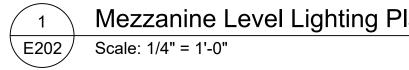


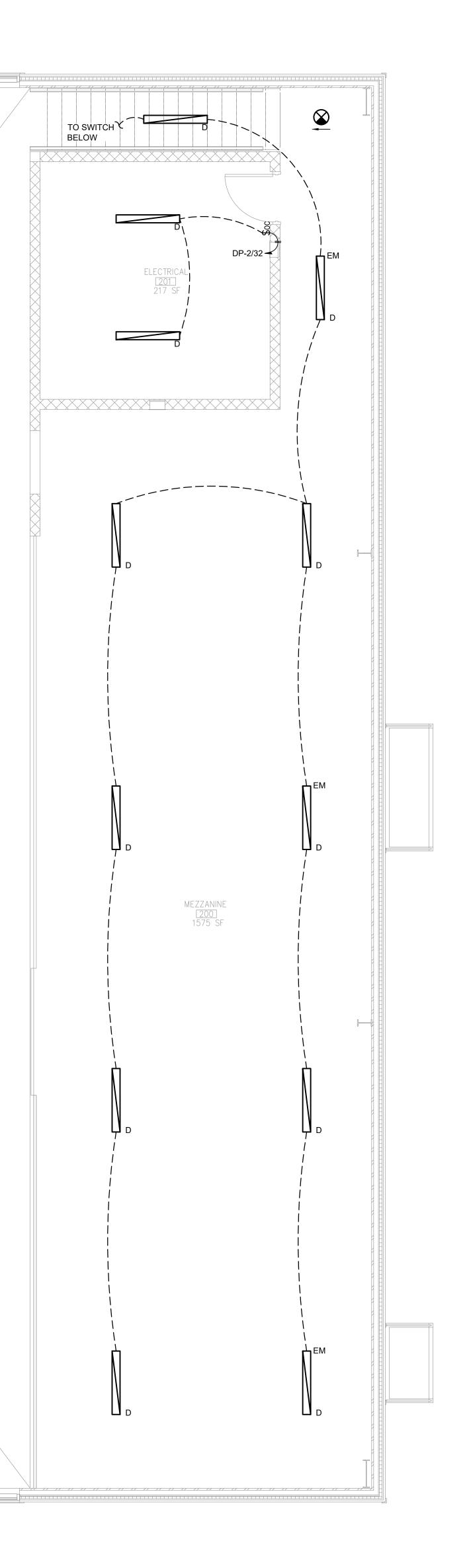




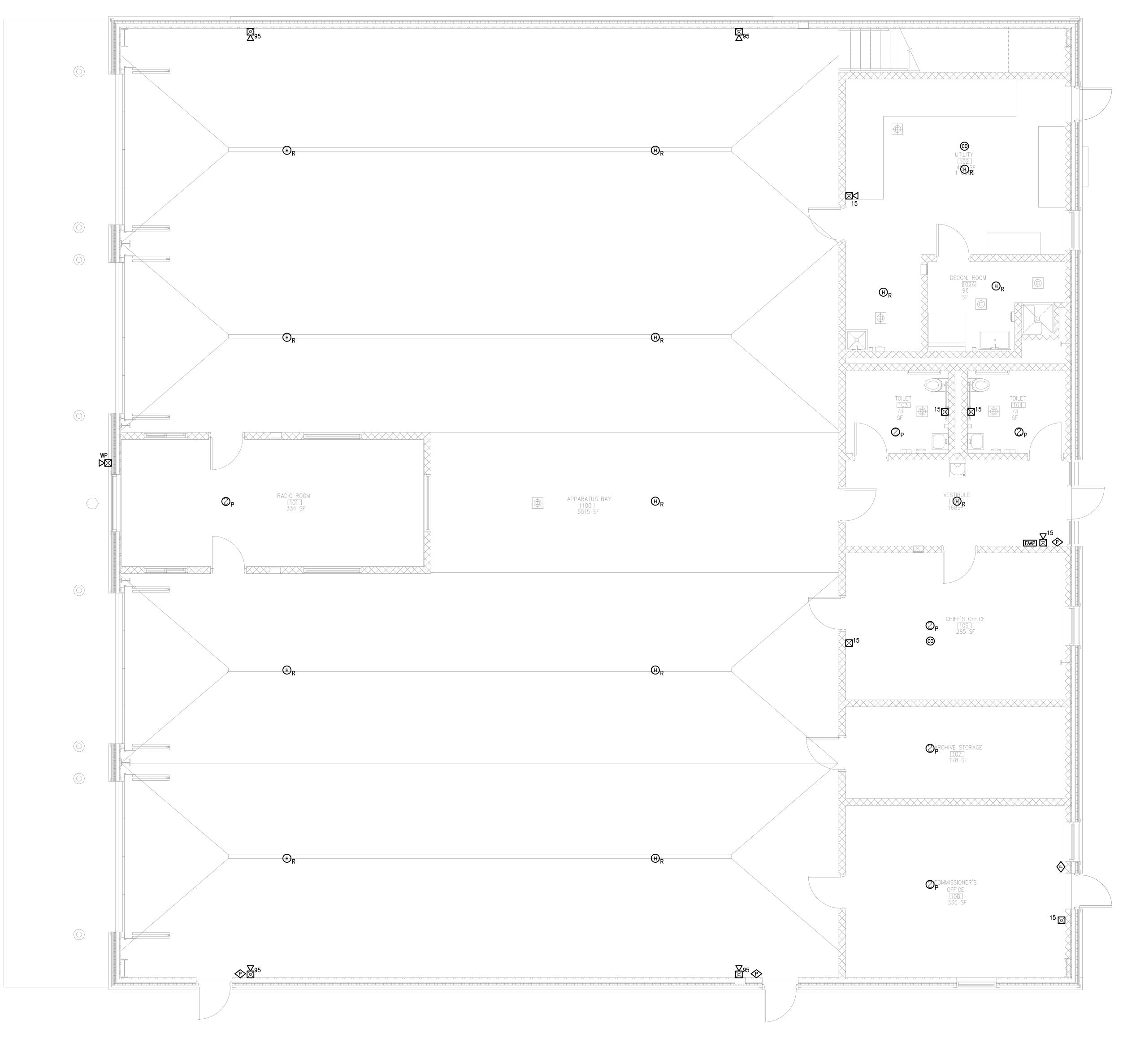


Mezzanine Level Lighting Plan



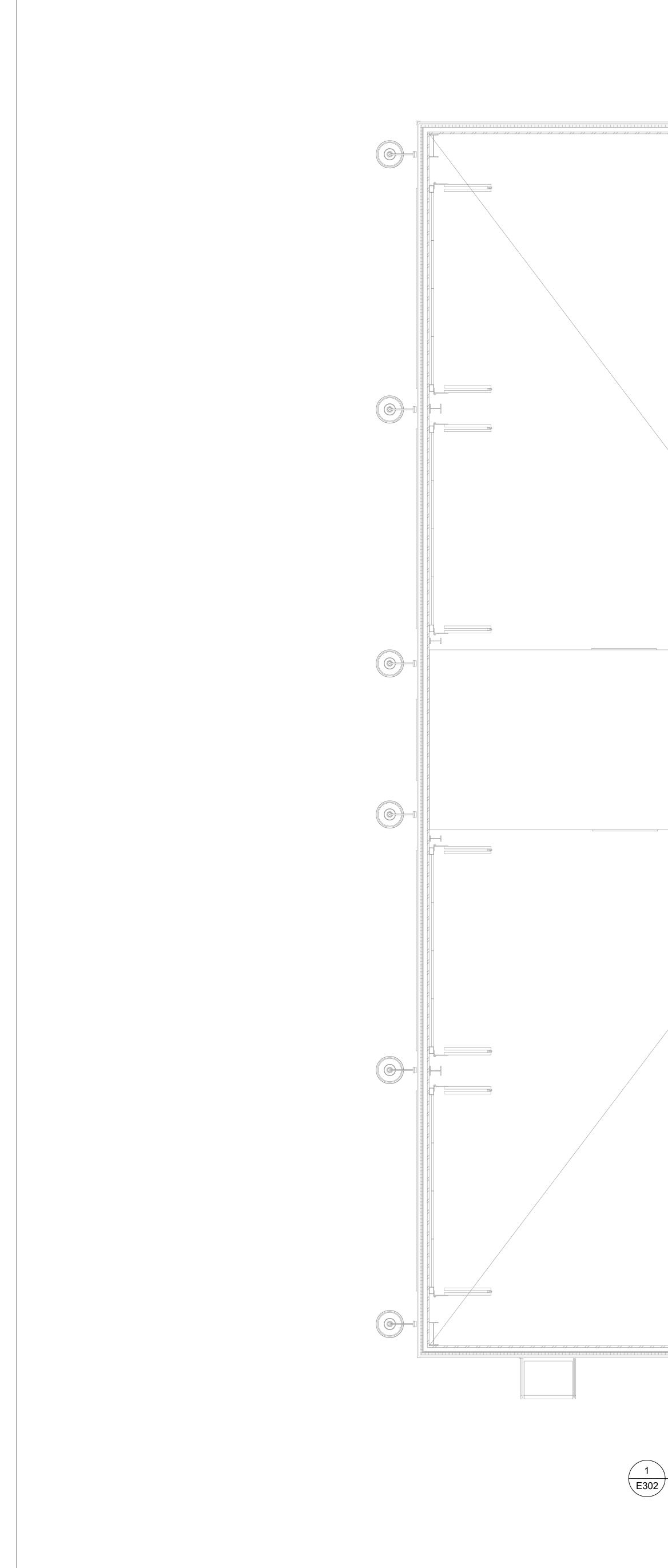






First Floor Fire Alarm Plan E301 Scale: 1/4" = 1'-0"





Mezzanine Level Fire Alarm Plan

E302 Scale: 1/4" = 1'-0"

