GENERAL NOTES:

1. The work on this project shall be awarded as four (4) separate prime contracts. Contracts to be awarded under this BID are as follows:

   2108.01 GC – General Construction
   2108.01 M – Mechanical Work
   2108.01 P – Plumbing Work
   2108.01 E – Electrical Work

2. ALL prime contractors and their sub contractors shall be required to coordinate and schedule their work with ALL other contractors & Owner vendors; as required to facilitate sequencing, coordination, etc. It shall be the responsibility of EACH prime contractor to notify other prime contractors of conditions that will affect their work or the work of respective sub-contractors that will require coordination and/or verification. NO change orders will be considered for costs incurred due to lack of proper coordination and notification. All notifications between prime contractors shall be in writing or in official project meeting minutes to be considered valid.

3. The work under all sections of the specifications and all work indicated on the drawings are subject to all applicable provisions of the Notice to Bidders, Instruction to Bidders (AIA A701), General Conditions (AIA A201), Supplementary Conditions, prevailing wage rate schedules, bonds, and Division 1 General Conditions, as included in the project manual.

4. Each contractor shall review the ENTIRE set of drawings (Including Architectural & Engineering drawings) to coordinate their own work and with work of all other trades, and to verify information that will affect their work. In general, locations indicated on architectural plans takes precedence over other documents, but shall be verified in the case of a discrepancy. Architect shall provide interpretation of locations etc. when requested.

5. All items specified within the bid documents indicate the minimum standard for components to be incorporated into the project. Any "or equal" MUST be approved by the Architect and Owner. All items called for or specified shall be installed in compliance with the manufacturers written specifications and installation instructions which are incorporated into these drawings in their entirety by this reference. Installations of any portion of work shall include any and all equipment, hardware, supports, fittings, components, clearances, bracing, etc. which are required for a complete and proper installation and maintenance, without exception.

6. All work shall comply with the requirements of the 2021 Building Code of New York State.

7. EACH prime contractor shall be responsible for his own excavations, trenching, shoring, dewatering, compaction, etc. as required for the installation of his own work. Provide 95% compaction clean back fill in max. 12" lifts typical at all affected areas.

8. Each contractor shall coordinate and furnish any and all concrete/masonry sleeves and inserts to general contractor in coordination with the GC schedule for conrete/masonry work.

9. Each contractor shall be responsible for all permitting/ coordination of utilities within their scope of work, and shall complete all associated utility work up to the point of transfer from the designated utility provider.

10. Each contractor shall maintain one full set of marked up drawings to indicate any and all deviations for as-built conditions and shall turn over same to the Architect/Owner upon completion of the project.

11. Each prime contractor shall be required to have an English speaking designated project superintendent who will be at the project site at all times that contract work is in-progress. Said representative shall be in attendance at ALL job meetings, regardless of ongoing work associated with that contractor.

12. Each prime contractor shall provide for and follow any requirements associated with current health (IE: COVID-19) and safe construction (IE: OSHA) practices, for all aspects of their bid, and as currently mandated by NYS at the time of the bid.

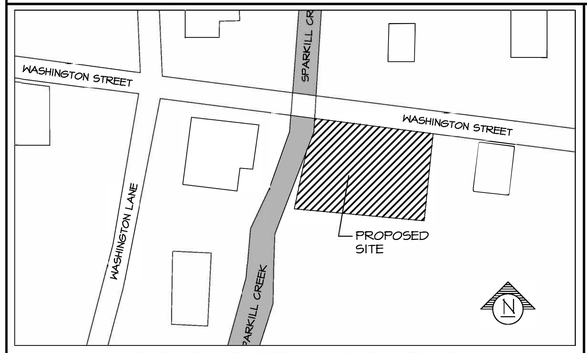
PROPOSED FIREHOUSE FACILITY FOR

TAPPAN FIRE DISTRICT

135 WASHINGTON STREET

TAPPAN, NEW YORK 10983



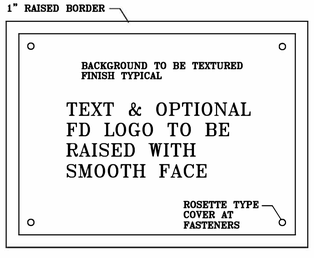


PROJECT LOCATION

NOT TO SCALE

PLAQUE DETAIL

NOT TO SCALE



GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL WHERE DIRECTED BY OWNER:
ONE (1) 24" X 36" BRONZE FD LOGO PLAQUE
ONE (1) 16" X 24" BRONZE DATE PLAQUE
CONTENT, FD LOGO & LAYOUT OF INFORMATION SHALL BE PROVIDED BY OWNER.

LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS

0-0 COVER SHEET
1 (SP) SITE PLAN
2 (EC) EXISTING CONDITIONS PLAN
3 (GP) GRADING PLAN
4 (DET.) DETAILS (SITE)
5 (SP) EROSION SEDIMENT & CONTROL PLAN
6 (LLP) LANDSCAPE & LIGHTING PLAN
21R555.2 SOIL ANALYSIS & TEST BORING PLAN
A-1.1 FIRST FLOOR PLAN & DETAILS
A-1.2 SECOND FLOOR/ATTIC PLAN & DETAILS
A-2.1 ROOF PLAN & DETAILS
A-3.1 ELEVATIONS (WEST AND NORTH) & DETAILS
A-3.2 ELEVATIONS (EAST AND SOUTH) & DETAILS
A-3.3 WINDOW ELEVATIONS & DETAILS
A-4.1 BUILDING SECTION 'A' & DETAILS
A-4.2 BUILDING SECTION 'B' & DETAILS
A-5.1 STAIR 'A' PLANS & SECTION
A-5.2 STAIR 'B' PLANS & SECTION
A-5.3 STAIR DETAILS & ENLARGED GEAR WASH PLAN
A-6.1 WALL SECTIONS & DETAILS
A-6.2 WALL SECTIONS & DETAILS
A-7 DOOR/HARDWARE SCHEDULE & DETAILS
A-8.1 ROOM FINISH SCHEDULE & NOTES
A-8.2 RESTROOM PLANS, ELEVATIONS & DETAILS
A-8.3 KITCHEN/READY ROOM PLAN & ELEVATIONS
A-9.1 FIRST FLOOR REFLECTED CEILING PLAN
A-9.2 SECOND FLOOR/ATTIC REFLECTED CEILING PLAN

STRUCTURAL DRAWINGS

S-1.1 FOUNDATION PLAN & DETAILS
S-1.2 FOUNDATION PIER DETAILS
S-2 SECOND FLOOR/ATTIC FRAMING PLAN & DETAILS
S-3.1 ROOF FRAMING PLAN & DETAILS
S-3.2 ROOF FRAMING & TRUSS DETAILS
S-4 COLUMN SCHEDULE & DETAILS

MECHANICAL DRAWINGS

M-1 HEAT GAIN & LOSS CALCULATIONS
M-2 FIRST FLOOR MECHANICAL PLAN
M-3 SECOND FLOOR MECHANICAL PLAN
M-4 FIRST FLOOR REF. PIPING PLAN & ADD ALT. SNOW MELT PLAN
M-5 SECOND FLOOR REF. PIPING PLAN
M-6 MECHANICAL EQUIPMENT SCHEDULES
M-7 MECHANICAL EQUIPMENT SCHEDULES & REFRIGERANT RISER DIAGRAM
M-8 MECHANICAL EQUIPMENT SCHEDULES & CONTROL RISER DIAGRAM
M-9 MECHANICAL DETAILS
M-10 MECHANICAL NOTES

PLUMBING DRAWINGS

P-1 PLUMBING SITE PLAN
P-2 PLUMBING FIXTURE & SPECIALTY SCHEDULE
P-3 FIRST FLOOR DOMESTIC WATER & GAS PLAN
P-4 SECOND FLOOR DOMESTIC WATER & GAS PLAN
P-5 FIRST FLOOR SANITARY PLAN
P-6 SECOND FLOOR SANITARY PLAN
P-7 DOMESTIC WATER RISER DIAGRAM
P-8 SANITARY RISER DIAGRAM
P-9 NATURAL GAS RISER DIAGRAM
P-10 PLUMBING DETAILS
P-11 PLUMBING NOTES

ELECTRICAL DRAWINGS

E-1 ELECTRICAL SITE PLAN
E-2 ELECTRICAL PANEL SCHEDULES & RISER DIAGRAM
E-3 FIRST FLOOR POWER PLAN
E-4 SECOND FLOOR POWER PLAN
E-5 FIRST FLOOR LIGHTING PLAN
E-6 SECOND FLOOR LIGHTING PLAN
E-7 FIRST FLOOR MISC. SYSTEMS PLAN
E-8 SECOND FLOOR MISC. SYSTEMS PLAN
E-9 COMPUTER SYSTEM RISER DIAGRAM
E-10 CABLE TV & TELEPHONE RISER DIAGRAM
E-11 ACCESS SYSTEM RISER DIAGRAM
E-12 SURVEILLANCE RISER DIAGRAM
E-13 P.A. RISER DIAGRAM
E-14 RADIO WIFI SYSTEMS RISER DIAGRAM
E-15 I.T. ROOM RISER DIAGRAM
E-16 FIRE ALARM RISER DIAGRAM

PRE-BID CONFERENCE NOTE:

A HIGHLY RECOMENDED PRE-BID CONFERENCE WILL BE HELD AT THE INTENDED PROJECT SITE, LOCATED AT 135 WASHINGTON STREET, TAPPAN N.Y. 10983 ON WEDNESDAY AUGUST 10th, 2022 AT 11:00AM.

DATE: ISSUE

07-20-2022 ISSUED FOR BID & PERMIT

11-07-2022 ISSUED FOR CONSTRUCTION & PERMITTING (INCLUDES BID ADDENDUM # 1 ITEMS AS NOTED ON VARIOUS DRAWINGS)

SEAL:



SENDLEWSKI ARCHITECTS PC
ARCHITECTS - PLANNERS
215 ROANOKE AVENUE
RIVERHEAD, NY 11901
(631) 727-5352
9 SELENA COURT
WALDEN, NY 12586
(845) 275-8859

PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

COVER SHEET

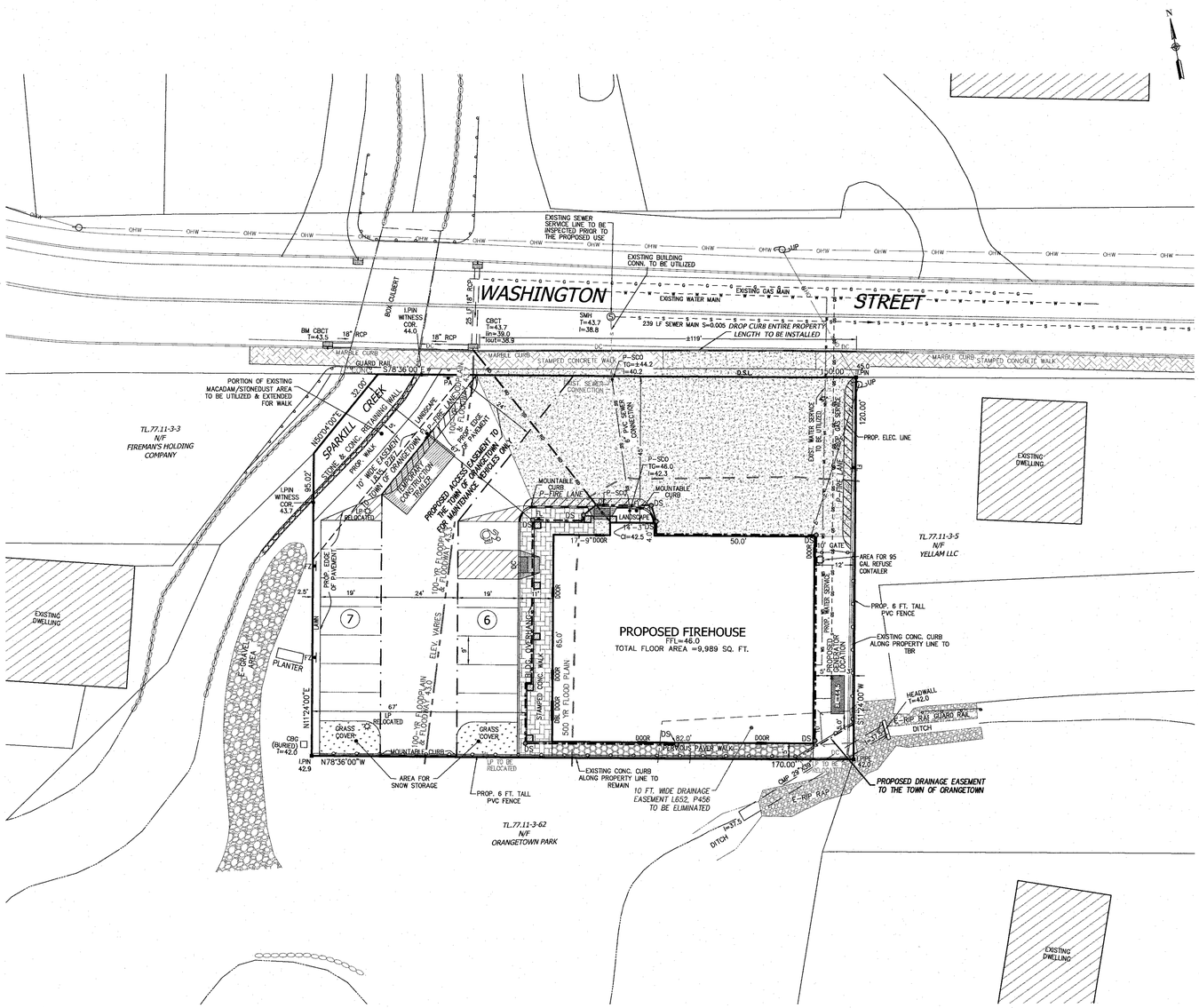
PROJECT #: 2108.01A

DRAWN BY:

CAD FILE: 2108.01A/P:/BID

DRAWING#:

0-0



NOTES:

1. ALL UTILITIES INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
2. BUILDING PERMIT WILL BE ISSUED UNTIL SEWAGE DISPOSAL ARRANGEMENTS HAVE BEEN APPROVED BY THE ROCKLAND COUNTY HEALTH DEPARTMENT AND/OR THE TOWN OF ORANGETOWN.
3. LOT DRAINAGE ON THIS PLAN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND SHALL NOT BE DISTURBED.
4. ANY EXISTING UTILITIES (POLES, HYDRANTS, ETC.) AFFECTED BY CONSTRUCTION OF THE SITE PLAN SHALL BE RELOCATED AT THE DEVELOPERS EXPENSE PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.
5. NO OPEN BURNING DURING CONSTRUCTION WITHOUT SPECIFIC PERMISSION FROM NEW YORK STATE DEPARTMENT OF HEALTH.
6. DATUM: NAVD 1988–BENCHMARK CATCH BASIN WASHINGTON STREET ELEV.=43.5.
7. NO BUILDING PERMIT SHALL NE ISSUED UNTIL RESULTS OF TEST PITS HAVE BEEN SUBMITTED TO THE BUILDING DEPARTMENT.
8. DURING THE COURSE OF CONSTRUCTION, ALL STORM DRAIN INLETS SHALL BE PROTECTED WITH A HAY BALE FILTER (SEE DETAIL).
9. ALL AREAS DISTURBED BY ONSITE GRADING SHOULD BE LIMED AND FERTILIZED PRIOR TO SEEDING.
10. THE NEW CORNERS OF ALL LOTS SHALL BE MARKED WITH METAL RODS 3/4" IN DIAMETER, AND AT LEAST 30" IN LENGTH (TO BE INSTALLED AFTER FINAL GRADING). SAID PINS SHOWN THUS: •
11. THIS SITE PLAN IS SUBJECTED TO DETAILS OF GRADING, ROADS AND UTILITIES AS SHOWN ON CONSTRUCTION DRAWINGS APPROVED BY THE PLANNING BOARD AND FILED WITH THE TOWN CLERK.
12. SIDEWALKS AND CURBS SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY DEPARTMENT SPECIFICATIONS.
13. TEMPORARY SEDIMENT ENTRAPMENT AREAS SHALL BE PROVIDED AS SHOWN TO INTERCEPT AND CLARIFY SILT LADEN RUNOFF FROM THE SITE. THESE MAY BE EXCAVATED OR MAY BE CREATED UTILIZING EARTH BEMIS, RIP–RAP OR CRUSHED STONE DAMS, HAY BALES, OR OTHER SUITABLE MATERIALS. DIVERSION SWALES, BEMIS, OR THE CANALIZATION SHALL BE CONSTRUCTED TO INSURE THAT ALL SILT LADEN WATERS ARE DIRECTED IN TO THE ENTRAPMENT AREAS, WHICH SHALL NOT BE PERMITTED TO FILL IN, BUT SHALL BE CLEANED PERIODICALLY DURING THE COURSE OF CONSTRUCTION. THE COLLECTED SILT SHALL BE DEPOSITED IN AREA SAFE FROM FURTHER EROSION.
14. ALL DISTURBED AREAS, EXCEPT ROADWAYS, WHICH WILL REMAIN UNFURNISHED FOR MORE THAN THIRTY (30) DAYS SHALL BE TEMPORARILY SEEDED WITH 1/2 LB. OR RYE GRASS OR MULCH WITH 100 LBS. OF STRAW OR HAY PER 1,000 SQUARE FEET. ROADWAYS SHALL BE STABILIZED AS RAPIDLY AS PRACTICABLE BY THE INSTALLATION OF THE BASE COURSE.
15. SILT THAT LEAVES THE SITE IN SPITE THE REQUIRED PRECAUTIONS SHALL BE COLLECTED AND REMOVED AS DIRECTED BY APPROPRIATE MUNICIPAL AUTHORITIES.
16. AT THE COMPLETION OF THE PROJECT ALL TEMPORARY SILTATION DEVICES SHALL BE COLLECTED AND REMOVED AS DIRECTED BY APPROPRIATE MUNICIPAL AUTHORITIES.
17. PERMANENT VEGETATION COVER SPECIFICATIONS:

    LAWN AREA – PER 1,00 SQUARE FEET]

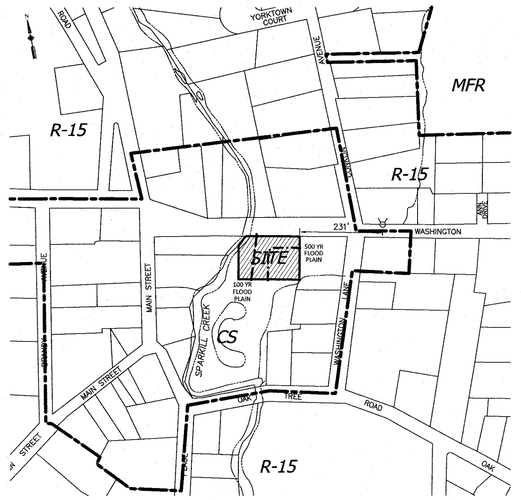
    15 LBS. 10–6–4 50% SLOW RELEASE FERTILIZED
    70 LBS. GRANULATE LIMESTONE
    4 LBS. SEED MIXTURE

    40% KENTUCKY BLUE
    40% RED FESCUE
    20% PERENNIAL RYEGRASS

18. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239 L&M OF THE GENERAL MUNICIPAL LAW.
19. CERTIFICATE OF OCCUPANCY SHALL NOT BE REQUESTED FROM THE TOWN OF ORANGETOWN BUILDING DEPARTMENT UNTIL RESULTS OF INFILTRATION AND EXFILTRATION TESTS FOR SANITARY SEWERS ARE CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AND APPROVED BY THE DIRECTOR, DIVISION OF SEWERS.
20. AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRECONSTRUCTION MEETING MUST BE HELD WITH THE OEME, SUPERINTENDENT OF HIGHWAYS AND THE OFFICE OF BUILDING, ZONING AND PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
21. TREE PROTECTION :
    A TREE PROTECTION PROGRAM WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREAS WITH MANY TREES. STEPS, WHICH WILL BE TAKEN TO PRESERVE AND PROTECT EXISTING TREES, ARE AS FOLLOWS:

    A. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
    B. THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.
    C. TREES TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES.
    D. TREES TO BE SAVED WILL BE FENCED AT THE OUTER DRIP LINE.
    E. NO EARTH FILLS GREATER THAN 6" IN DEPTH WILL BE MADE BENEATH TREES TO BE PRESERVED.
    F. IN FILL AREAS, TREES WILL BE PRESERVED IN TREE WELLS, OR THROUGH THE USE OF RETAINING WALLS
    G. IN CUT AREAS, TREES WILL BE PRESERVED WITH RETAINING WALLS.

22. ADDITIONAL CERTIFICATION, BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH THE STORMWATER MANAGEMENT PHASE TWO REGULATIONS.
23. A DRAINAGE PERMIT IS REQUIRED FROM THE ROCKLAND COUNTY DRAINAGE AGENCY PRIOR TO ISSUANCE OF A BUILDING PERMIT.
24. PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A FLOOD ELEVATION CERTIFICATE IS TO BE SUBMITTED TO THE TOWN OF ORANGETOWN BUILDING DEPARTMENT.
25. A FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED FROM THE LOCAL FLOODPLAIN ADMINISTRATOR.
26. THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY AND ALL CONSTRUCTION ON OR NEAR EXISTING AND PROPOSED SANITARY SEWER FACILITIES.
27. THE EXISTING SANITARY BUILDING CONNECTION SHALL BE TV'D BY THE APPLICANT AND WITNESSED BY THE TOWN SEWER INSPECTOR. THE TOWN SEWER INSPECTOR WILL DECIDE IF THE EXISTING SANITARY LATERAL CAN BE USED FOR PROPOSED BUILDING.
28. 100 YEAR FLOODPLAIN AND 500 YEAR FLOODPLAIN ARE PER FEMA FIRM FOR THE TOWN OF ORANGETOWN (COMMUNITY No. 360686), PANEL 36087C0189G WITH AN EFFECTIVE DATE OF MARCH 3, 2014.



VICINITY MAP

SCALE: 1"=200'

♂ FIRE HYDRANT

OWNER & APPLICANT:

TAPPAN FIRE DISTRICT
P.O. BOX 525
TAPPAN, NY 10983

TAX MAP REFERENCE:

TOWN OF ORANGETOWN
SECTION 77.11, BLOCK 3, LOTS 4

SITE ADDRESS:

135 WASHINGTON STREET
TAPPAN, NY 10983

AREA:

20,150 SQ.FT. OR 0.4626 ACS (GROSS)

DISTRICTS:

SCHOOL DISTRICT	–	SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT NO. 1
FIRE DISTRICT	–	TAPPAN
WATER DISTRICT	–	TAPPAN
SEWER DISTRICT	–	ORANGETOWN SEWER DISTRICT
LIGHTING DISTRICT	–	TOWN OF ORANGETOWN

LEGEND

EXISTING 2' CONTOUR	PROPOSED 2' CONTOUR
EXISTING 10' CONTOUR	PROPOSED 10' CONTOUR
EXISTING WATERLINE	PROPOSED WATER SERVICE
EXISTING FIRE HYDRANT	PROPOSED WATER VALVE
EXISTING GAS LINE	PROPOSED FIRE HYDRANT
EXISTING CATCH BASIN	PROPOSED GAS SERVICE
EXISTING STORM DRAIN LINE	PROPOSED GAS VALVE
EXISTING SEWER MANHOLE	PROPOSED CATCH BASIN
EXISTING SEWER LINE	PROPOSED STORM DRAIN LINE
EXISTING SPOT ELEVATION	PROPOSED SEWER CLEANOUT
EXISTING STONEWALL	PROPOSED SEWER HOUSE CONNECTION
EXISTING SIGN	PROPOSED SPOT ELEVATION
EXISTING LIGHT POLE	PROPOSED WATER SERVICE
EXISTING UTILITY POLE	PROPOSED GAS SERVICE
	LIMIT OF 100 YEAR FLOODPLAIN
	LIMIT OF 500 YEAR FLOODPLAIN
	PROPOSED ROOF DOWNSPOUT
	PROPOSED ROOF DRAIN
	PROPOSED WATERSHED
	PROPOSED SILT FENCE
	PROPOSED SUPER SILT FENCE
	PROPOSED HAY BALE
	GRASS COVER
	PERVIOUS WALK COVER
	IMPERVIOUS CONC. APRON COVER
	IMPERVIOUS CONC. PAVER COVER

SIGN LEGEND

FL	DENOTES FIRE LANE SIGN
FZ	DENOTES FLOOD ZONE SIGN
PA	DENOTES PUBLIC ACCESS SIGN

LOT AREA CALCULATION:

GROSS AREA	– 50% OF AREA WITHIN 100 FLOODPAIN = NET AREA	
20,150 SQ.FT.	– (4,888±2) SQ.FT.= 2,444 SQ.FT.	= 17,706 SQ.FT.

EXISTING COVERAGE TABLE:

EXISTING BUILDING:	1,297 SQ. FT.
EXISTING WALL:	76 SQ. FT.
CONCRETE:	283 SQ. FT.
GRAVEL:	4,090 SQ. FT.
MACADAM PAVEMENT:	12,630 SQ. FT.
TOTAL COVERAGE:	18,378 SQ. FT. OR 0.422 ACS.

PROPOSED COVERAGE TABLE:

PROPOSED BUILDING:	5,416 SQ. FT.
EXISTING WALL:	76 SQ. FT.
CONC. WALK, RAMP, PILLAR:	1,112 SQ. FT.
TRUCK APRON:	5,015 SQ. FT.
MACADAM PAVEMENT:	6,318 SQ. FT.
TOTAL COVERAGE:	17,937 SQ. FT. OR 0.418 ACS.

PARKING REQUIREMENTS:

1 SPACE PER 200 SQ.FT. OF GROSS FLOOR AREA
7,477 SQ.FT. ÷ 1 SPACE/200 SQ.FT. = 37.4 OR 38 SPACES REQUIRED
13 SPACES PROVIDED*

COVER AREA:

	EXISTING	PROPOSED	% REDUCTION
GRASS/PERVIOUS	0.04 ACS	0.044 ACS	10%
IMPERVIOUS	0.422 ACS	0.418 ACS	–1.0%
TOTAL	0.462 ACS	0.462 ACS	

BULK REQUIREMENTS

ZONE CS, GROUP GG	REQUIRED/ PERMITTED	EXISTING	PROPOSED
MAXIMUM FLOOR AREA RATIO	NONE	0.08	0.57
MINIMUM LOT AREA (SQ.FT.)	NONE	17,706 SQ.FT. (NET)	17,706 SQ.FT. (NET)
MINIMUM LOT WIDTH	NONE	170 FT.	170 FT.
MINIMUM STREET FRONTAGE	50 FT.	150 FT.	150 FT.
FRONT YARD	100 FT.	50.8 FT.	45 FT. *
SIDE YARD	100 FT.	28.3 FT.	12 FT. *
TOTAL SIDE YARD	200 FT.	121.8 FT.	79 FT. *
REAR YARD	100 FT.	42.1 FT.	5 FT. *
MAXIMUM BUILDING HEIGHT	NONE	15 FT.	32 FT.

*–DENOTES VARIANCE REQUIRED
VARIANCES WERE GRANTED BY THE TOWN OF ORANGETOWN ZBA ON JULY 6, 2022.

DRAWING LIST:

DRAWING No.		TITLE	ORIGIN DATE	REVISION DATE
DRAWING 1	–	SITE PLAN	JANUARY 12, 2022	JULY 14, 2022
DRAWING 2	–	EXISTING CONDITION	JANUARY 12, 2022	JULY 14, 2022
DRAWING 3	–	GRADING PLAN	JANUARY 12, 2022	JULY 14, 2022
DRAWING 4	–	DETAILS	JANUARY 12, 2022	JULY 14, 2022
DRAWING 5	–	EROSION & SEDIMENT CONTROL PLAN	JANUARY 12, 2022	JULY 14, 2022
DRAWING 6	–	LANDSCAPE & LIGHTING PLAN	JANUARY 12, 2022	JULY 14, 2022

DATUM: NAVD 1988

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. WHERE SUCH ALTERATIONS ARE MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS. (NYS EDUCATION LAW SECTION 7209–2)

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES."
"CERTIFICATION INDICATED HERE ON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYOR'S ADOPTED BY THE ASSOCIATION – HUDSON LAND SURVEYORS ASSOCIATION. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
5	7–14–22	PER PRELIMINARY APPROVAL 5–11–22
4	7–13–22	LIGHTING PLAN PER ZBA 07–06–22
3	6–24–22	PER PLANNING BOARD COMMENTS
2	3–28–22	PER OBZPAE COMMENTS 3–16–22
1	2–28–22	PER ARCHITECT

ATZL, NASHER & ZIGLER P.C.
ENGINEERS–SURVEYORS–PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634–4694
Fax: (845) 634–5543
E–mail: info@anzny.com
Web: www.ANZNY.com

PROJECT:

TAPPAN FIRE DISTRICT
WASHINGTON STREET

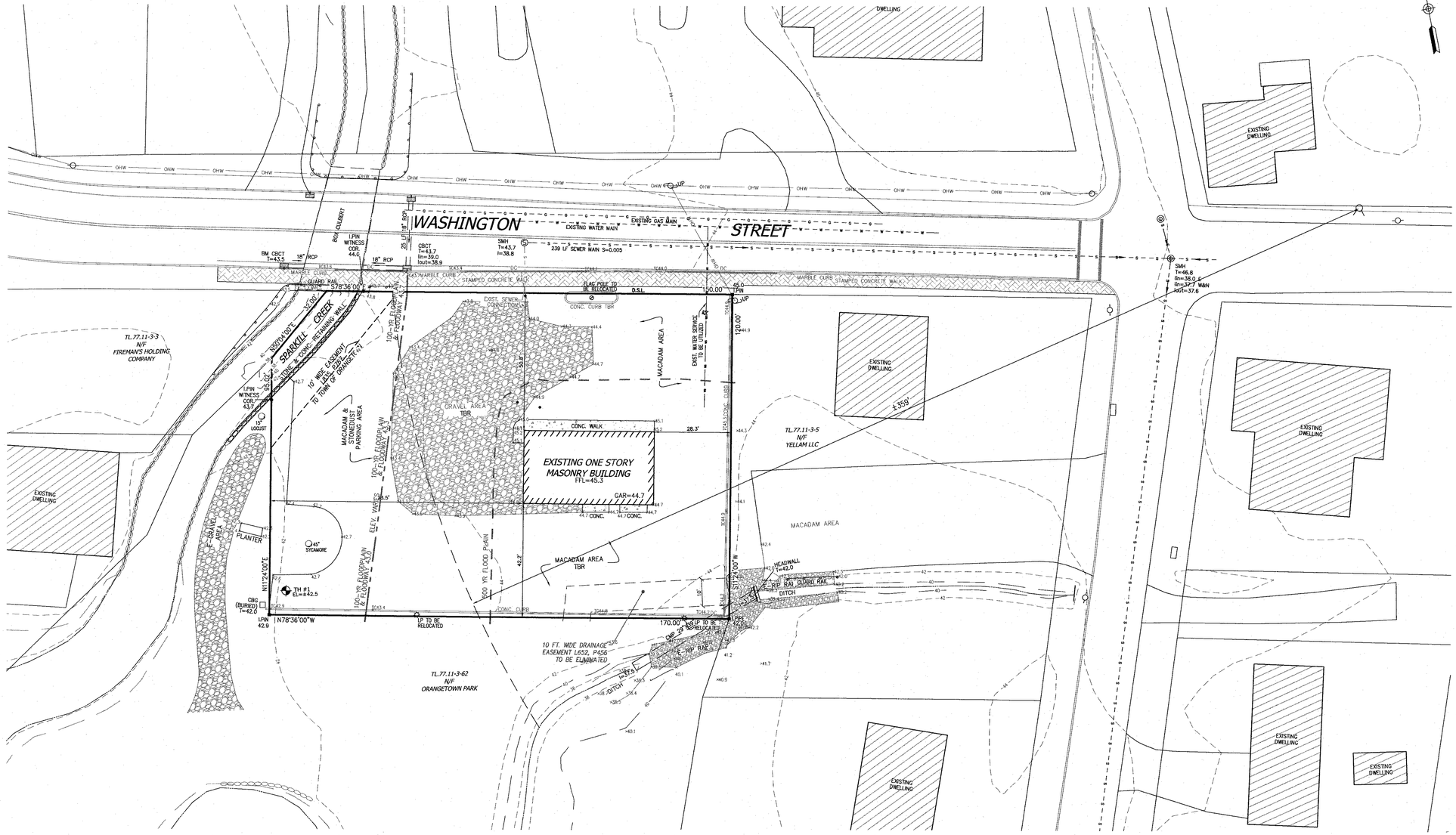
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

SITE PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: JANUARY 12, 2022	SCALE: 1 IN. = 20 FT.
PROJECT NO: 4785	DRAWING NO: 1

P:\DRAWINGS\4785\4785 SITE PLAN 7-14-22.DWG



LEGEND

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING WATERLINE
- EXISTING FIRE HYDRANT
- EXISTING GAS LINE
- CB EXISTING CATCH BASIN
- EXISTING STORM DRAIN LINE
- SMH EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- + 360.0 EXISTING SPOT ELEVATION
- EXISTING STONEWALL
- EXISTING SIGN
- LP EXISTING LIGHT POLE
- UP EXISTING UTILITY POLE
- LIMIT OF 100 YEAR FLOODPLAIN
- LIMIT OF 500 YEAR FLOODPLAIN

REVISION	DATE	DESCRIPTION
5	7-14-22	PER PRELIMINARY APPROVAL 5-11-22
4	7-13-22	LIGHTING PLAN PER ZBA 07-06-22
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1	2-28-22	PER ARCHITECT

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STATE OF NEW YORK RYAN A. NASHER LICENSED PROFESSIONAL ENGINEER

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK JOHN R. ATZL LICENSED LAND SURVEYOR

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

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Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

PROJECT:

TAPPAN FIRE DISTRICT
WASHINGTON STREET

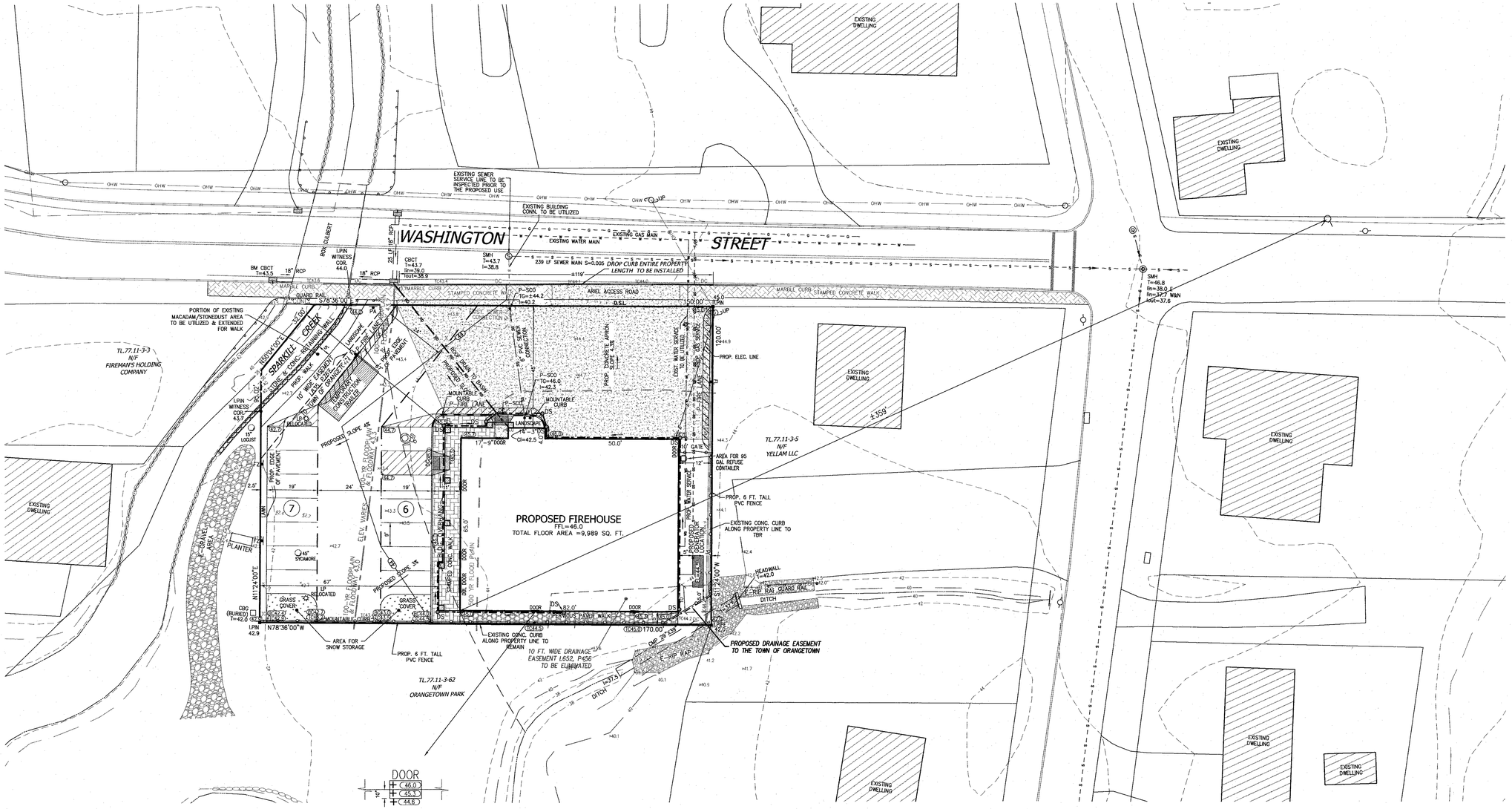
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

EXISTING CONDITION

DRAWN BY: LF	CHECKED BY: JRA
DATE: JANUARY 12, 2022	SCALE: 1 IN. = 20 FT.
PROJECT NO: 4785	DRAWING NO: 2

P:\DRAWINGS\4785\4785 SITE PLAN 7-14-22.DWG



LEGEND

362	EXISTING 2' CONTOUR
360	EXISTING 10' CONTOUR
W	EXISTING WATERLINE
	EXISTING FIRE HYDRANT
G	EXISTING GAS LINE
CB	EXISTING CATCH BASIN
	EXISTING STORM DRAIN LINE
S SMH	EXISTING SEWER MANHOLE
S	EXISTING SEWER LINE
+ 360.0	EXISTING SPOT ELEVATION
	EXISTING STONEWALL
	EXISTING SIGN
LP	EXISTING LIGHT POLE
UP	EXISTING UTILITY POLE
362	PROPOSED 2' CONTOUR
360	PROPOSED 10' CONTOUR
WS	PROPOSED WATER SERVICE
	PROPOSED WATER VALVE
	PROPOSED FIRE HYDRANT
GS	PROPOSED GAS SERVICE
	PROPOSED GAS VALVE
CB	PROPOSED CATCH BASIN
	PROPOSED STORM DRAIN LINE
CO	PROPOSED SEWER CLEANOUT
SS	PROPOSED SEWER HOUSE CONNECTION
+45.0	PROPOSED SPOT ELEVATION
WS	PROPOSED WATER SERVICE
GS	PROPOSED GAS SERVICE
	LIMIT OF 100 YEAR FLOODPLAIN
	LIMIT OF 500 YEAR FLOODPLAIN
DS	PROPOSED ROOF DOWNSPOUT
RD	PROPOSED ROOF DRAIN
WS	PROPOSED WATERSHED
	PROPOSED SILT FENCE
	PROPOSED SUPER SILT FENCE
	PROPOSED HAY BALE
	GRASS COVER
	PERVIOUS WALK COVER
	IMPERVIOUS CONC. APRON COVER
	IMPERVIOUS CONC. PAVER COVER

SIGN LEGEND

FL	DENOTES FIRE LANE SIGN
FZ	DENOTES FLOOD ZONE SIGN
PA	DENOTES PUBLIC ACCESS SIGN

REVISION	DATE	DESCRIPTION
5	7-14-22	PER PRELIMINARY APPROVAL 5-11-22
4	7-13-22	LIGHTING PLAN PER ZBA 07-06-22
3	6-24-22	PER PLANNING BOARD COMMENTS
2	3-28-22	PER OBZPAE COMMENTS 3-16-22
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PROJECT:

TAPPAN FIRE DISTRICT
WASHINGTON STREET

TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

GRADING PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: JANUARY 12, 2022	SCALE: 1 IN. = 20 FT.
PROJECT NO: 4785	DRAWING NO: 3

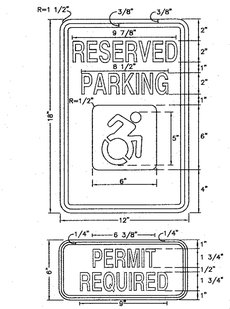
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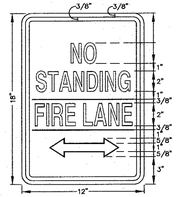
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LETTERING AND BORDER GREEN WHITE SYMBOL ON BLUE BACKGROUND BACKGROUND WHITE

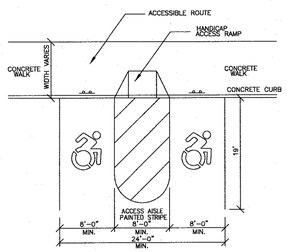
SIGN FOR ACCESSIBLE PARKING
N.T.S.



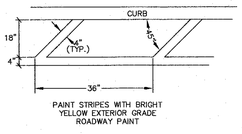
LETTERING AND BORDER RED BACKGROUND WHITE (SEE SITE PLAN FOR ARROW DIRECTION)

SIGN TYPE "A" TOWN OF CLARKSTOWN

SIGN FOR FIRE LANES
N.T.S.

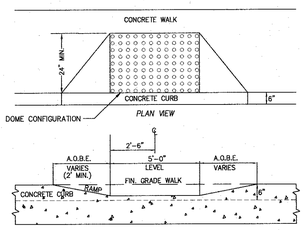


ACCESSABLE PARKING DETAIL
N.T.S.



PAINT STRIPES WITH BRIGHT YELLOW EXTERIOR GRADE ROADWAY PAINT

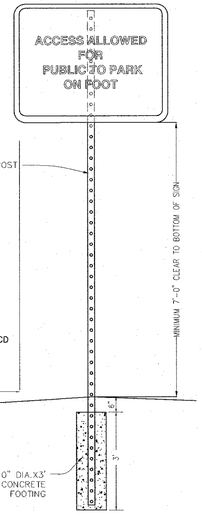
FIRE LANE STRIPING DETAIL
N.T.S.



SECTION ALONG EDGE OF PAVEMENT

DROP CURB AND TACTILE WARNING STRIP DETAIL
N.T.S.

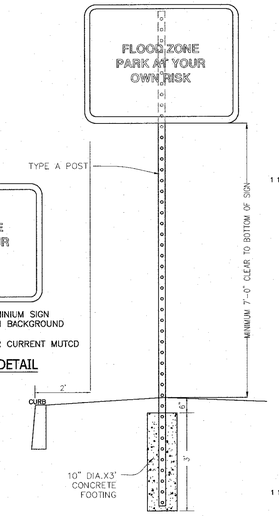
PVC FENCE DETAIL
CERTAINTEED SIMTEK "ASHLAND"
COLOR-NANTURCKET GRAY
N.T.S.



NOTES: 1. 10 GAUGE THICK ALUMINIUM SIGN
2. WHITE TEXT ON GREEN BACKGROUND
3. 1" TALL LETTERING
4. MOUNTING HEIGHT PER CURRENT MUTCD

PUBLIC ACCESS SIGN DETAIL
SCALE: 1" = 1'

PUBLIC ACCESS SIGN DETAIL
NTS



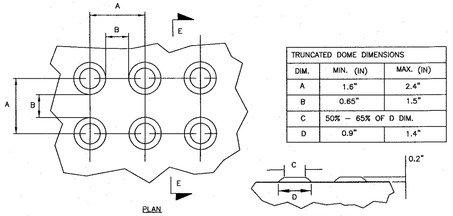
NOTES: 1. 10 GAUGE THICK ALUMINIUM SIGN
2. WHITE TEXT ON GREEN BACKGROUND
3. 1" TALL LETTERING
4. MOUNTING HEIGHT PER CURRENT MUTCD

FLOOD ZONE SIGN DETAIL
SCALE: 1" = 1'

FLOOD ZONE SIGN DETAIL
NTS

DETECTABLE WARNING NOTES:

30. DETECTABLE WARNING SURFACES (DWS) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES:
    A. CURB RAMPS AND BLENDED TRANSITIONS AT PEDESTRIAN STREET CROSSINGS.
    B. PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6')
    C. PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.
31. DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE THE PEDESTRIAN ACCESS ROUTE CROSSES DRIVEWAYS WITH SIGNAL, YIELD OR STOP CONTROL. DETECTABLE WARNING SURFACES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAYS.
32. WITH THE EXCEPTION OF THE DETECTABLE WARNING SURFACE TRUNCATED DOME DETAILS ON SHEETS 2 OF 12, DETECTABLE WARNING DOMES ARE NOT DEPICTED TO SCALE ON THESE SHEETS.
33. DETECTABLE WARNING FIELDS SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS THE FULL WIDTH OF CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES.
34. SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION, IF REQUIRED, THE BORDER SHALL NOT EXCEED 2", WHERE THE BACK OF THE CURB EDGE IS TOOLED TO PROVIDE A RADIUS, THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGER OF THE CURB RADIUS. BORDERS CANNOT BE INCLUDED AS PART OF THE 24" MINIMUM DIMENSION DESCRIBED IN NOTE 33.
35. WHERE CURB IS NOT USED, THE EDGE OF PAVEMENT SHALL BE SUBSTITUTED FOR BACK OF CURB FOR PLACEMENT OF DETECTABLE WARNINGS.
36. ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADICALLY, THEY MAY DIFFER IN DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 2 OF 12. DOME ALIGNMENT THAT IS PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK IS NOT REQUIRED ON SLOPES OF LESS THAN 5%
37. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

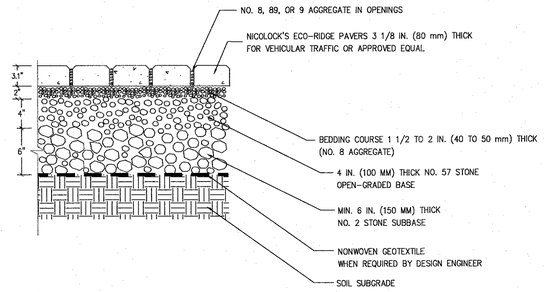


TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN)	MAX. (IN)
A	1.6"	2.4"
B	0.65"	1.5"
C	50% – 65% OF D DIM.	
D	0.9"	1.4"

PLAN

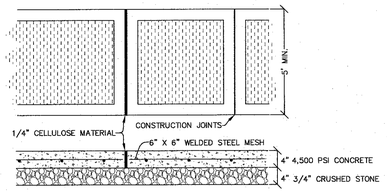
SECTION E-E

DETECTABLE WARNING SURFACE (DWS) TRUCATED DOME DETAIL
N.T.S.



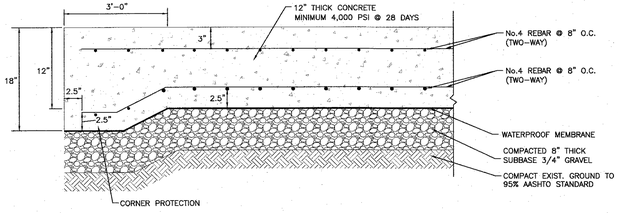
NOTES:
1. SUBGRADE MUST HAVE ADEQUATE BEARING CAPACITY AND BE SUITABLE FOR INFILTRATION PRACTICES. DO NOT COMPACT UNLESS SPECIFIED BY DESIGN ENGINEER.
2. PAVERS, AGGREGATE BASE, AND SUBBASE MUST BE PROPERLY COMPACTED.
3. NO. 2 STONE MAY BE REPLACED WITH NO. 3 OR NO. 4 STONE.
4. PAVERS SHALL BE INSTALLED WITH A SURFACE TOLERANCE OF ±3/8" OVER 10 FT. WITH NO PAVER LIPPAGE GREATER THAN 1/8".
5. CONSULT ICPI'S CURRENT PERMEABLE PAVEMENT DESIGN MANUAL FOR DESIGN AND INSTALLATION INFORMATION.
6. REFERENCE NICOLOCK PERMEABLE PAVEMENT WITH FULL EXFILTRATION TO SOIL SUBGARDE.

PERVIOUS PAVER BLOCK DETAIL
N.T.S.



1. CONSTRUCTION JOINTS HAVING A 1/4 INCH RADIUS SHALL BE PLACED AT 4 FEET INTERVALS.
2. INSTALL EXPANSION JOINTS OF 1/4 INCH CELLULOSE MATERIAL OR EQUAL AT 20 FEET INTERVALS.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
4. CONCRETE SHALL BE AIR ENTRAINED 6% PLUS or MINUS 1%
5. SIDEWALK REINFORCEMENT SHALL CONSIST OF #6 GUAGE 6" X 6" STEEL MESH PLACED 2 INCHES FROM THE BOTTOM OF THE SIDEWALK SLAB.

CONCRETE SIDEWALK DETAIL
N.T.S.



NOTES:
1. INSTALL EXPANSION JOINTS OF 1/4 INCH CELLULOSE MATERIAL OR EQUAL AT 8 FEET INTERVALS.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
3. CONCRETE SHALL BE AIR ENTRAINED 6% PLUS or MINUS 1%

CONCRETE SLAB DETAIL
N.T.S.

COARSE AGGREGATE / STONE SIZE AND SPECIFICATION

#1A CRUSHED GRAVEL (NYSDOT 703.02):
FINE STONE, PRIMARILY 1/8" TO 5/16" IN SIZE. OFTEN USED IN ASPHALT MIXES.
ALSO WORKS WELL FOR A GRAVEL WALKWAY OR VERY FINE DRIVEWAY TOPPING

#1ST'S CRUSHED GRAVEL:
5/16" TO 1/2"

#1 CRUSHED GRAVEL (NYSDOT 703.02):
CLEAN, CRUSHED STONE, 5/16" TO 9/16" IN SIZE.
GREAT FOR DRIVEWAY TOPPING AND DRAINAGE APPLICATIONS

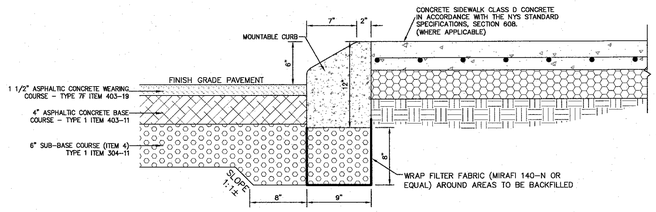
#2 CRUSHED (NYSDOT 703.02):
9/16" TO 1 1/8" SIZE STONE. USED FOR DRIVEWAY, SEPTIC SYSTEMS AND DRAINAGE

#3 CRUSHED:
WASHED GRAVEL, PRIMARILY 1 1/8" TO 2" IN SIZE

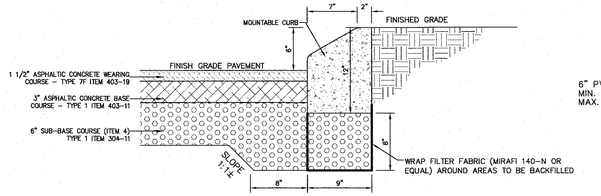
ITEM #4 (NYSDOT 304.14):
BANKRUN GRAVEL SCREENED OVER A 2" SCREEN.
USED AS A SUBBASE FOR ROADS AND DRIVEWAY. WILL NOT COMPACT AS WELL AS CRUSHER RUN

AASHTO #8:
#1A & #1ST MIX

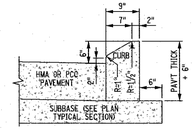
AASHTO #57:
#1 & #2 MIX



ASPHALTIC CONCRETE PAVEMENT & CONCRETE CURB DETAIL FOR TRAVELLED WAY
N.T.S.

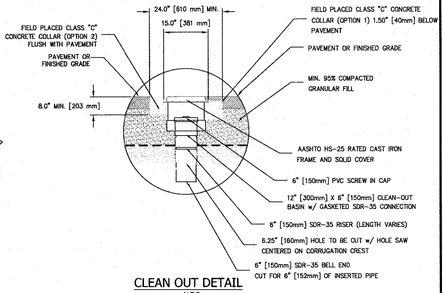


ASPHALTIC CONCRETE PAVEMENT & CONCRETE CURB DETAIL FOR PARKING AREAS
N.T.S.

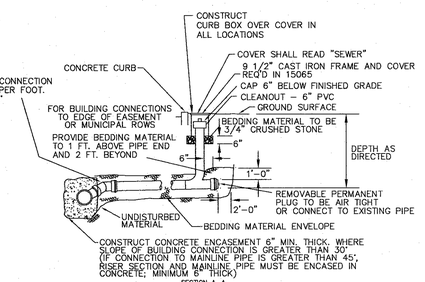


TYPE M6
(MOUNTABLE CURB WITHOUT CURB ANCHOR)

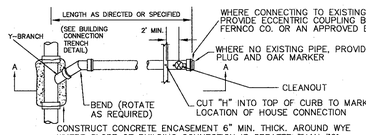
MOUNTABLE CURB DETAIL
N.T.S.



CLEAN OUT DETAIL
N.T.S.



BUILDING CONNECTION ELEVATION
N.T.S.



BUILDING CONNECTION PLAN
N.T.S.

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STATE OF NEW YORK RYAN A. NASHER LICENSED PROFESSIONAL ENGINEER

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N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK JOHN R. ATZL LICENSED LAND SURVEYOR

JOHN R. ATZL
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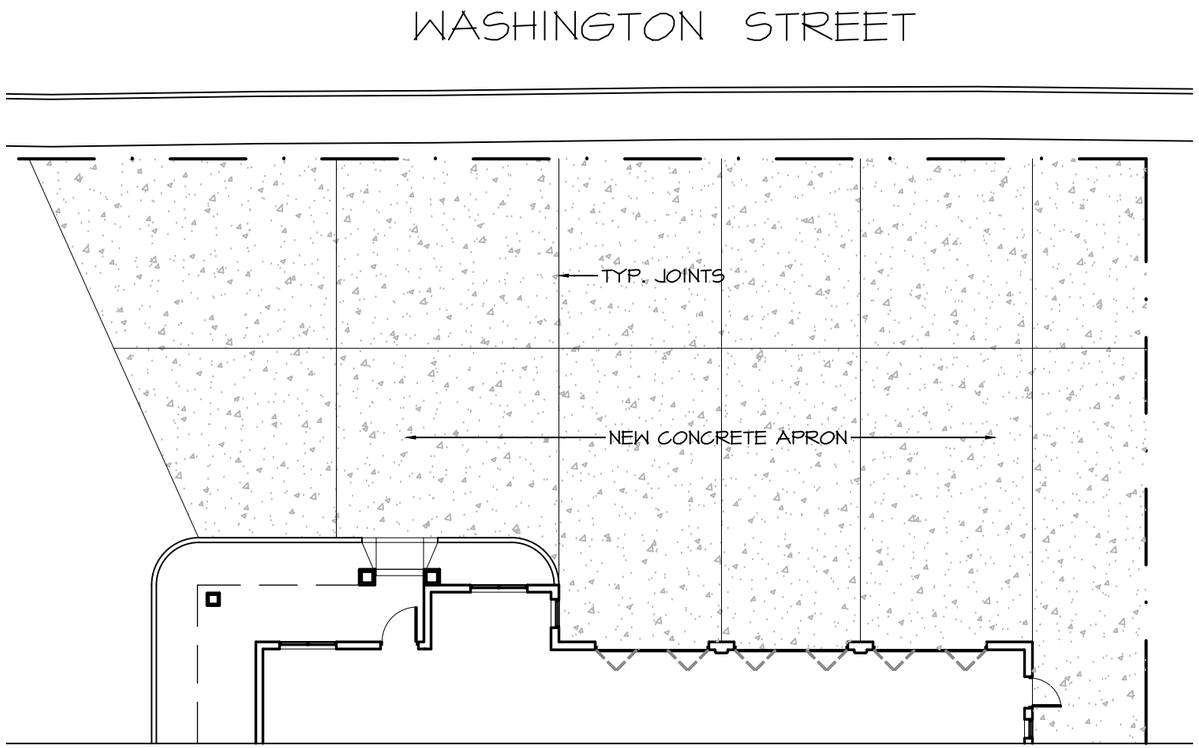
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DETAILS

DRAWN BY: LF	CHECKED BY: JRA
DATE: JANUARY 12, 2022	SCALE: 1 IN. = 20 FT.
PROJECT NO: 4785	DRAWING NO: 4

P:\DRAWINGS\4785\4785 SITE PLAN 7-14-22.DWG

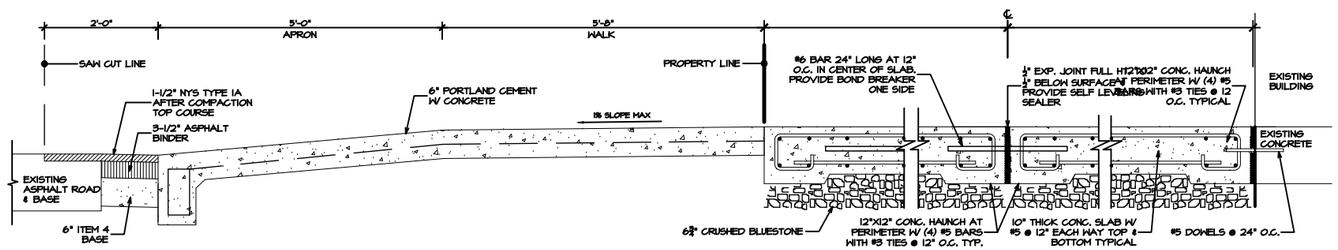
ATTACHMENT 'B' - (1pg)

(ADDENDUM #1)



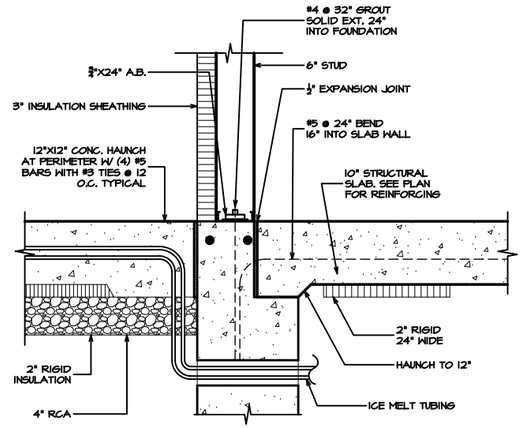
CONCRETE APRON

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



STAMP CONC. WALK & APRON

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



ADD ALT. ICE MELT

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

DATE: ISSUE

07-20-2022 ISSUED FOR BID & PERMIT

10-14-2022 REVISED FOR CONSTRUCTION

SEAL:

SENDLEWSKI ARCHITECTS PC
ARCHITECTS - PLANNERS
215 ROANOKE AVENUE
RIVERHEAD, NY 11901
(631) 727-5352
9 SELENA COURT
WALDEN, NY 12586
(845) 522-1243

PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
125 WASHINGTON STREET
TAPPAN, NY 10983

CONCRETE APRON

PROJECT #: 2108.01A

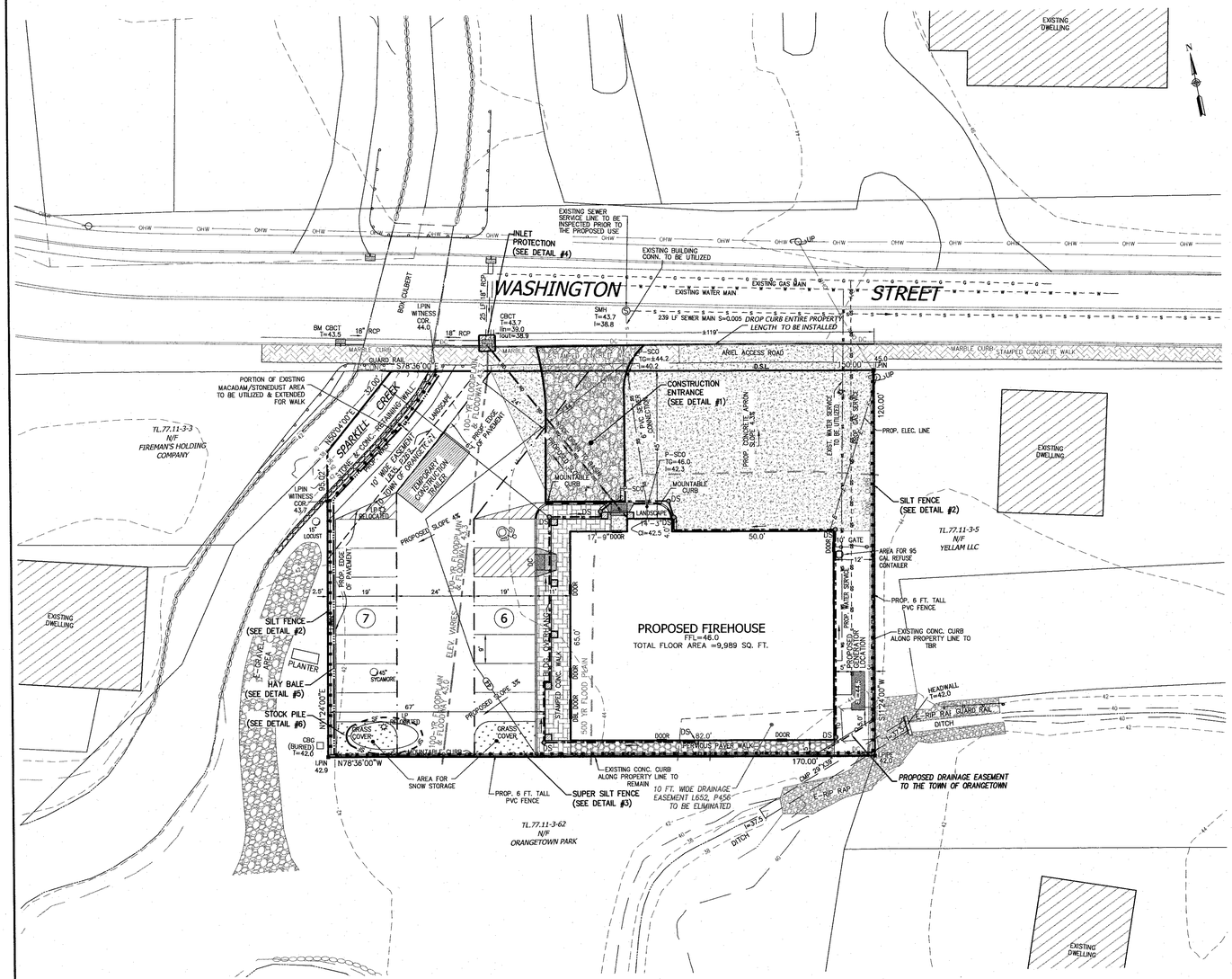
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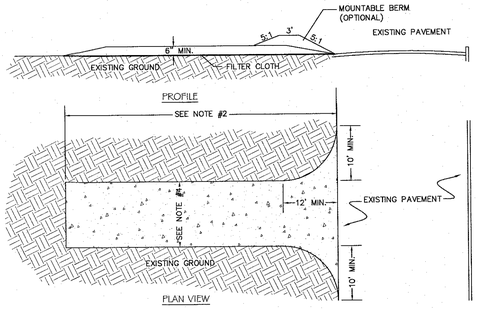
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ATTACHMENT





SPECIFICATIONS FOR CONSTRUCTION ENTRANCE

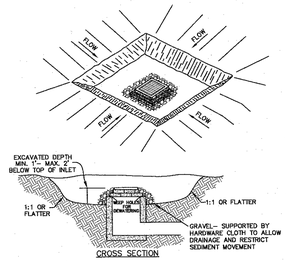
1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FT. (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FT. MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN 6 IN..
4. WIDTH – 12 FT. MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR. 24 FT. IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACEMENT OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT SPILLED , DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS TO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCE DETAIL #1

N.T.S.

SPECIFICATIONS FOR STORM INLET PROTECTION

1. SEDIMENT SHALL BE REMOVED AND THE TRAP RETURNED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
2. THE VOLUME OF SEDIMENT STORAGE SHALL BE 1800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
6. ALL CUT SLOPES SHALL BE 1:1 OR FLATTER.

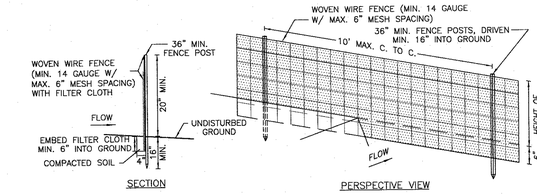


STORM INLET PROTECTION DETAIL #4

N.T.S.

CONSTRUCTION NOTES FOR REINFORCED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



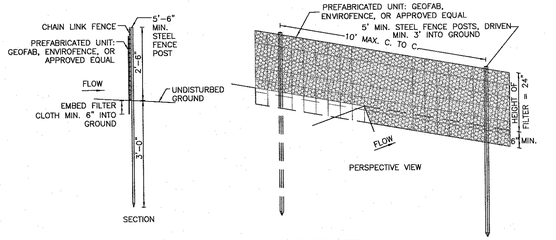
REINFORCED SILT FENCE DETAIL #2

N.T.S.

CONSTRUCTION NOTES FOR PRE FABRICATED SILT FENCE

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

1. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
3. THE FABRIC SHALL BE PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3 FEET IN THE GROUND.
4. POSTS FOR SUPER SILT FENCE SHALL BE STANDARD CHAIN LINK FENCE POSTS.

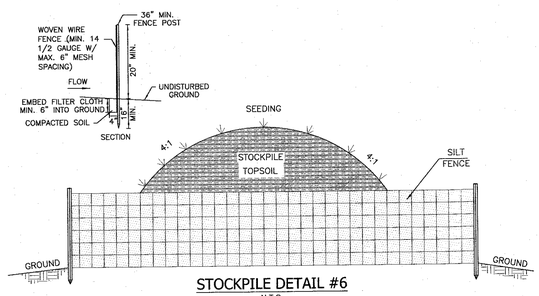


SUPER SILT FENCE DETAIL #3

N.T.S.

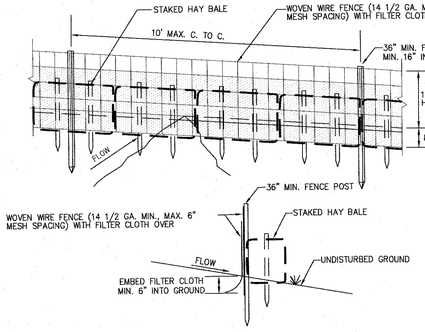
LEGEND

362 EXISTING 2' CONTOUR	362 PROPOSED 2' CONTOUR
360 EXISTING 10' CONTOUR	360 PROPOSED 10' CONTOUR
W EXISTING WATERLINE	WS PROPOSED WATER SERVICE
EXISTING FIRE HYDRANT	PROPOSED WATER VALVE
G EXISTING GAS LINE	PROPOSED FIRE HYDRANT
CB EXISTING CATCH BASIN	GS PROPOSED GAS SERVICE
EXISTING STORM DRAIN LINE	PROPOSED GAS VALVE
S EXISTING SEWER MANHOLE	PROPOSED CATCH BASIN
S EXISTING SEWER LINE	PROPOSED STORM DRAIN LINE
+ 360.0 EXISTING SPOT ELEVATION	CO PROPOSED SEWER CLEANOUT
EXISTING STONEWALL	SS PROPOSED SEWER HOUSE CONNECTION
EXISTING SIGN	+360.0 PROPOSED SPOT ELEVATION
LP EXISTING LIGHT POLE	WS PROPOSED WATER SERVICE
UP EXISTING UTILITY POLES	GS PROPOSED GAS SERVICE
	LIMIT OF 100 YEAR FLOODPLAIN
	LIMIT OF 500 YEAR FLOODPLAIN
	DS PROPOSED ROOF DOWNSPOUT
	RD PROPOSED ROOF DRAIN
	WS PROPOSED WATERSHED
	PROPOSED SILT FENCE
	PROPOSED SUPER SILT FENCE
	PROPOSED HAY BALE
	GRASS COVER
	PERVIOUS WALK COVER
	IMPERVIOUS CONC. APRON COVER
	IMPERVIOUS CONC. PAVER COVER



STOCKPILE DETAIL #6

N.T.S.



HAY BALE & SILT FENCE DETAIL #5

N.T.S.

SPECIFICATIONS FOR SILT FENCE AND HAY BALE EROSION CONTROL BARRIER

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, WHERE SUCH ALTERATIONS ARE MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS. (NYS EDUCATION LAW SECTION 7209-2)

STATE OF NEW YORK RYAN A. NASHER 090661 LICENSED PROFESSIONAL ENGINEER
RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES."
"CERTIFICATION INDICATED HERE ON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE DELAWARE – HUDSON LAND SURVEYORS ASSOCIATION. THESE CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

STATE OF NEW YORK JOHN R. ATZL 050228 LICENSED PROFESSIONAL ENGINEER
JOHN R. ATZL, P.E.
N.Y.S. P.E.S./LIC. NO. 50228

REVISION	DATE	DESCRIPTION
5	7-14-22	PER PRELIMINARY APPROVAL 5-11-22
4	7-13-22	LIGHTING PLAN PER ZBA 07-06-22
3	6-24-22	PER PLANNING BOARD COMMENTS
2	3-28-22	PER OBZPAE COMMENTS 3-16-22
1	2-28-22	PER ARCHITECT

ATZL, NASHER & ZIGLER P.C.
ENGINEERS–SURVEYORS–PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

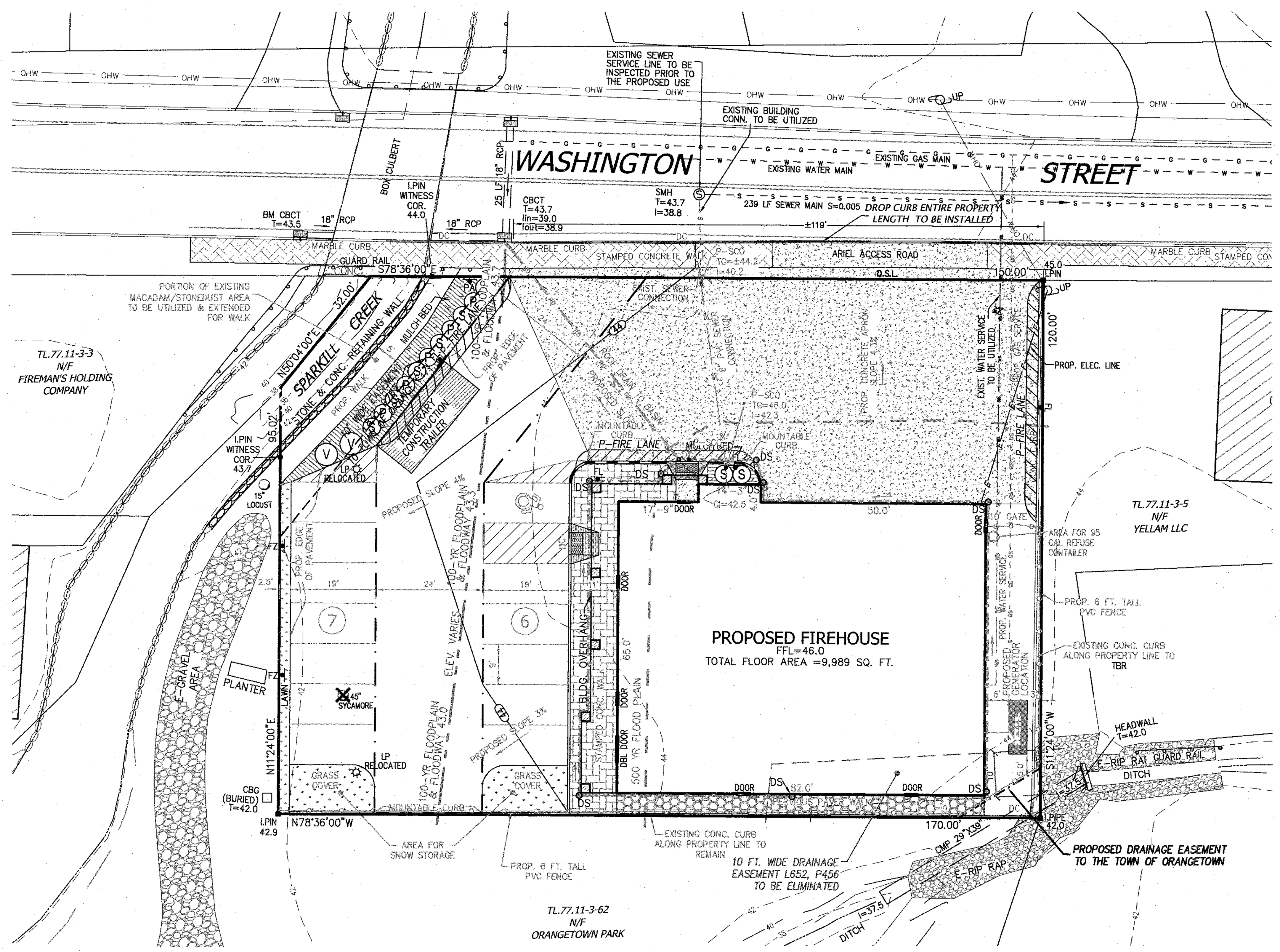
PROJECT:
TAPPAN FIRE DISTRICT
WASHINGTON STREET

TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK

TITLE:
EROSION SEDIMENT & CONTROL PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: JANUARY 12, 2022	SCALE: 1 IN. = 20 FT.
PROJECT NO: 4785	DRAWING NO: 5

P:\DRAWINGS\4785\4785 SITE PLAN 7-14-22.DWG

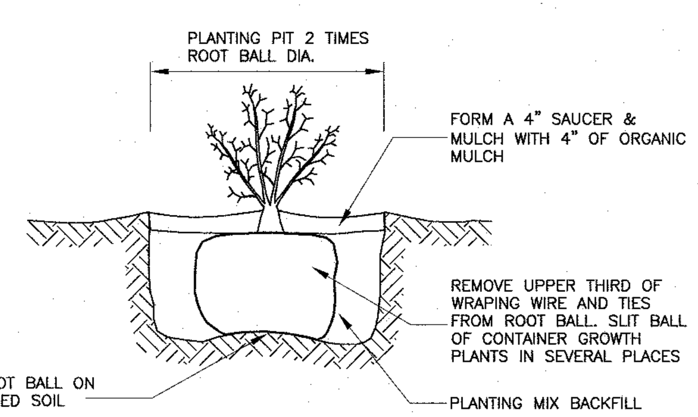


LANDSCAPING PLAN

SCALE: 1" = 20'

PLANTING NOTES

1. ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE AND AFTER PLANTING.
2. ALL PLANTING SHALL BE PLACED UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT. GIVE 48 HOURS NOTICE BEFORE PLANTING.
3. GUARANTEE ALL PLANTS AND WORKMANSHIP FOR A PERIOD OF TWO PLANTING SEASONS (ONE FULL YEAR).
4. PLACE 4" OF TOPSOIL ON ALL LAWN AREAS AND 12" TOP SOIL IN ALL PLANTING BEDS.
5. PLANT PITS SHALL BE 36" WIDER FOR TREES (MINIMUM OF TWO TIMES ROOT BALL DIAMETER) AND 24" WIDER FOR SHRUBS AND 6" DEEPER THAN THE ROOT BALL. SET PLANTS AT SAME LEVEL AS ORIGINALLY GROWN ON BASE OF UNDISTURBED SOIL. REMOVE ALL EXISTING SOIL FROM PLANT PIT AND BACKFILL WITH A MIXTURE OF ONE PART PEAT HUMUS, ONE PART DEHYDRATED COW MANURE, AND FOUR PARTS TOPSOIL. FERTILIZE ALL PLANTS WITH 2 TO 3 OZ. PER FOOT OF SHRUB HEIGHT AND 2 TO 3 IBS. PER INCH OF TREE TRUNK OF 5-10-5 FERTILIZER. FOR EVERGREEN PLANTING, ADD 1 LB. PER 100 SQUARE FEET OF PLANT BED EACH OF AMMONIUM SULFATE AND SUPERPHOSPHATE.
6. STAKE ALL TREES WITH TWO CEDAR STAKES; COVER TWISTED 10 GAGE GALVANIZED WIRE WITH RUBBER HOSE AND FASTEN AROUND TREE AT 5 FOOT HEIGHT MINIMUM. WRAP TRUNK WITH KRAFT PAPER TO FIRST BRANCH. REMOVE WIRES AND STAKES AFTER THE ONE YEAR.
7. MULCH ALL PLANTS AND PLANTED AREAS WITH A 4" DEPTH OF SHREDDED PINE, OAK BARK.
8. FERTILIZE AREAS BEFORE SEEDING OR SODDING WITH 15 IBS. PER 1000 SQUARE FEET OF 10-20-10 FERTILIZER OR APPROVED EQUIVALENT. REPEAT AFTER 8 WEEKS.
9. LAWN AREAS SHALL BE SEEDED AT 5 LBS. PER 1000 SQUARE FEET WITH THE FOLLOWING SEED MIX: 40% JAMESTOWN CHEWINGS FESCUE, 40% BARON KENTUCKY BLUEGRASS, AND 20% YORKTOWN PERENNIAL RYE. MULCH NEWLY SEEDED LAWN AT 90 IBS. PER 1000 SQUARE FEET WITH HAY OR STRAW MULCH.
10. THE CONTRACTOR IS RESPONSIBLE TO PLANT THE TOTAL QUANTITIES OF ALL PLANTS SHOWN ON THE PLANTING PLAN. THE QUANTITIES OF PLANTING SHOWN GRAPHICALLY ON THE PLAN SHALL GOVERN.
11. EXISTING TREES SHOWN ON THIS PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4 FOOT HIGH SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK.



SHRUB PLANTING DETAIL

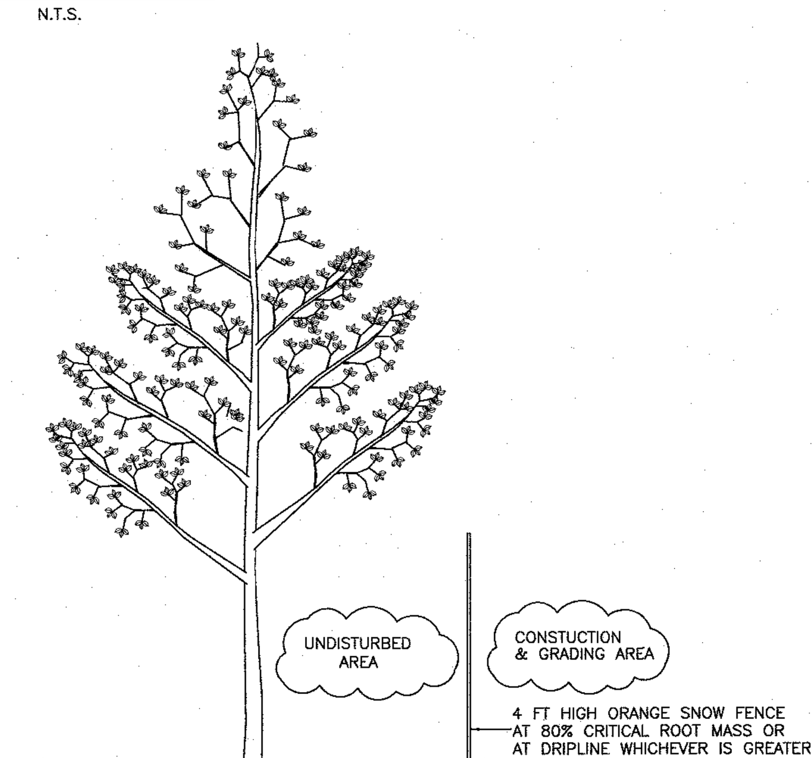
N.T.S.

PLANT LIST

No.	SYMBOL	PLANT NAME	QUANTY	SIZE & REMARKS
1.	P	PRUNUS LAUROCERASUS "OTTO LUYKEN" CHERRY LAUREL	5	18"-24" SPREAD B&B PLANT 4' O.C.
2.	S	SPIRAEA X BUMALDA ANTHONY WATERER SPIREA	8	18"-24" HT., #3 CONT. PLANT 4' O.C.
3.	V	VIBURNUM DENTATUM FRAGRANT VIBURNUM	2	3'-4' HT. B&B PLANT 6' O.C.

LEGEND

EXISTING 2' CONTOUR	PROPOSED 2' CONTOUR
EXISTING 10' CONTOUR	PROPOSED 10' CONTOUR
EXISTING WATERLINE	PROPOSED WATER SERVICE
EXISTING FIRE HYDRANT	PROPOSED WATER VALVE
EXISTING GAS LINE	PROPOSED FIRE HYDRANT
EXISTING CATCH BASIN	PROPOSED GAS SERVICE
EXISTING STORM DRAIN LINE	PROPOSED GAS VALVE
EXISTING SEWER MANHOLE	PROPOSED CATCH BASIN
EXISTING SEWER LINE	PROPOSED STORM DRAIN LINE
EXISTING SPOT ELEVATION	PROPOSED SEWER CLEANOUT
EXISTING STONEWALL	PROPOSED SEWER HOUSE CONNECTION
EXISTING SIGN	PROPOSED SPOT ELEVATION
EXISTING LIGHT POLE	PROPOSED WATER SERVICE
EXISTING UTILITY POLE	PROPOSED GAS SERVICE
TREE TO BE REMOVED	LIMIT OF 100 YEAR FLOODPLAIN
	LIMIT OF 500 YEAR FLOODPLAIN
	PROPOSED ROOF DOWNSPOUT
	PROPOSED ROOF DRAIN
	PROPOSED WATERSHED
	PROPOSED SILT FENCE
	PROPOSED SUPER SILT FENCE
	PROPOSED HAY BALE



A TREE PROTECTION PROGRAM WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREAS WITH MANY TREES. STEPS WHICH WILL BE TAKEN TO PRESERVE AND PROTECT EXISTING TREES, ARE AS FOLLOWS:

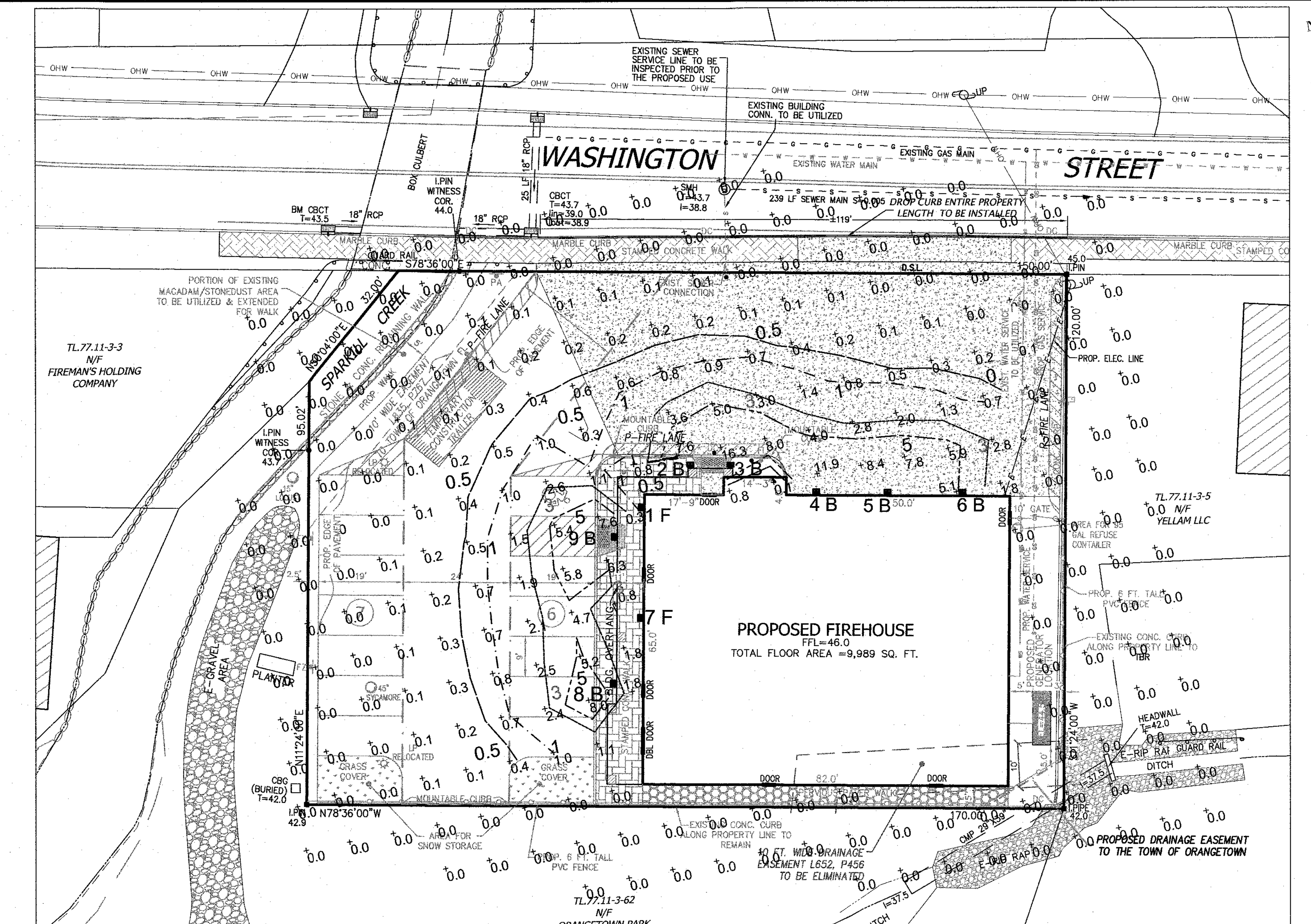
A) NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
B) THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.
C) TREES TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES.
D) TREES TO BE SAVED ARE TO BE PROTECTED WITH A 4 FOOT HIGH ORANCE SNOW FENCE PLACED AT THE DRIP LINE OR AT 80% CRITICAL ROOT MASS WHICHEVER IS GREATER.
E) NO EARTH FILLS GREATER THAN 6" IN DEPTH WILL BE MADE BENEATH TREES TO BE PRESERVED.
F) IN FILL AREAS, TREES WILL BE PRESERVED IN TREE WELLS OR THROUGH THE USE OF RETAINING WALLS PLACED AT THE DRIP LINE OR AT 80% CRITICAL ROOT MASS WHICHEVER IS GREATER.
G) IN CUT AREAS, TREES WILL BE PRESERVED WITH RETAINING WALLS AT THE DRIP LINE OR AT 80% CRITICAL ROOT MASS WHICHEVER IS GREATER.

◯ - DENOTES TREE PROTECTION

TREE PROTECTION DETAIL

N.T.S.

P:\DRAWINGS\4785\4785 SITE PLAN 7-14-22.DWG



LIGHTING PLAN

SCALE: 1" = 20'

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	7	WPLED18	SINGLE	N.A.	1.000	Wall Mount
	2	WPLED26	SINGLE	N.A.	1.000	Wall Mount

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts Neighboring Property	Illuminance	Fc	0.00	0.1	0.0	N.A.	N.A.
CalcPts Parking Lot	Illuminance	Fc	1.64	16.3	0.0	N.A.	N.A.

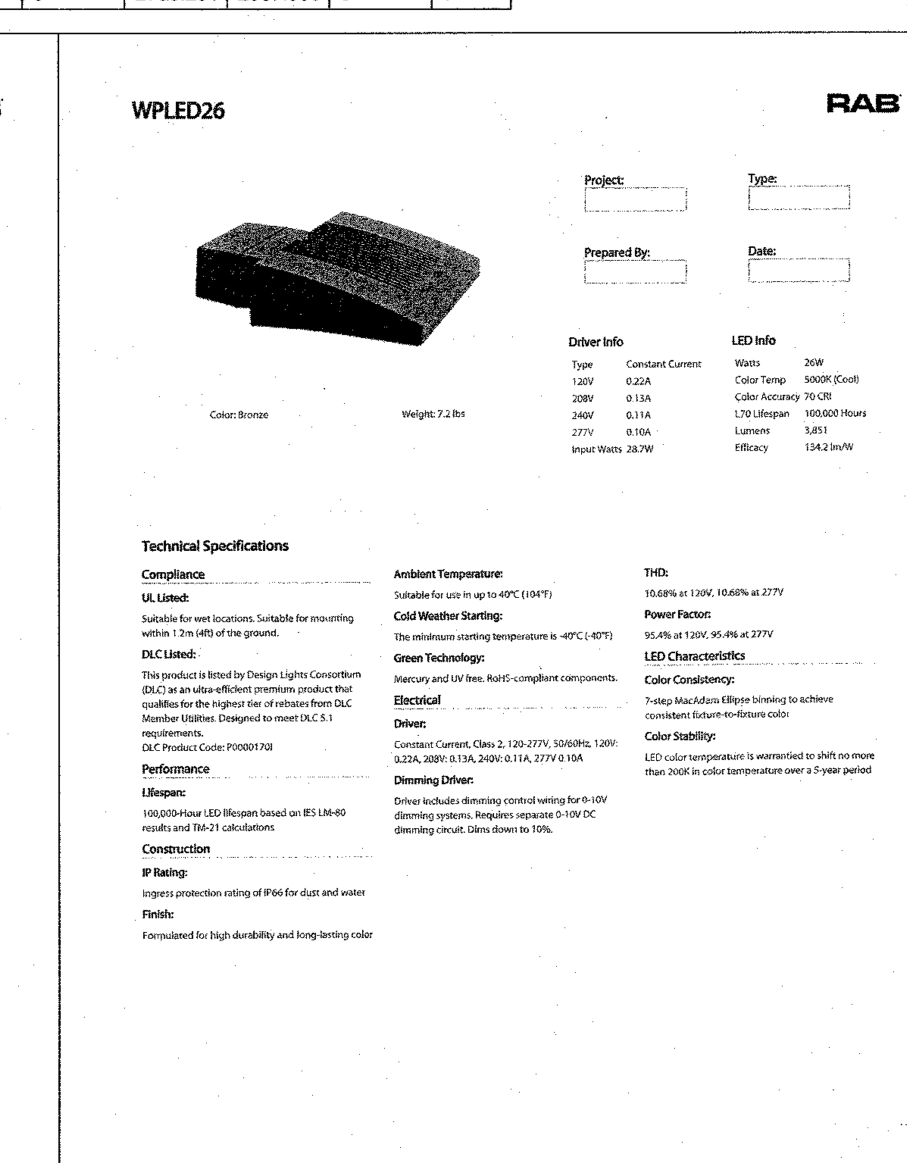
Expanded Luminaire Location Summary

LumNo	Label	X	Y	Z	Orient	Tilt	X-Aimpt	Y-Aimpt	Z-Aimpt	TCF
1	WPLED26	2766.042	2993.152	18	167.068	0	2766.042	2993.152	0	1
2	WPLED18	2780.73	3000.2	10	79.233	0	2780.73	3000.2	0	1
3	WPLED18	2788.68	2998.803	10	79.233	0	2788.68	2998.803	0	1
4	WPLED18	2804.924	2988.875	10	79.233	0	2804.924	2988.875	0	1
5	WPLED18	2820.601	2985.698	10	79.233	0	2820.601	2985.698	0	1
6	WPLED18	2837.158	2982.301	10	79.233	0	2837.158	2982.301	0	1
7	WPLED26	2761.255	2968.825	18	167.068	0	2761.255	2968.825	0	1
8	WPLED18	2751.8	2955.685	10	168.296	0	2751.8	2955.685	0	1
9	WPLED18	2758.204	2987.903	10	168.296	0	2758.204	2987.903	0	1

RAB
170 LOUDLOW AVENUE, NORTHVALE, NJ 07647
888-722-1000 • RABLIGHTING.COM

CONTACT INFORMATION:
DAMIN SALES (732) 985-8866
RAB LIGHTING (201) 931-8062





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STATE OF NEW YORK — RYAN A. NASHER — PROFESSIONAL ENGINEER (seal)
RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK — JOHN R. ATZL — LICENSED LAND SURVEYOR (seal)
JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
5	7-14-22	PER PRELIMINARY APPROVAL 5-11-22
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AN&Z
ATZL, NASHER & ZIGLER P.C.
ENGINEERS-SURVEYORS-PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

PROJECT:

TAPPAN FIRE DISTRICT
WASHINGTON STREET

TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

LANDSCAPE & LIGHTING PLAN

DRAWN BY: LF	CHECKED BY: JRA
DATE: JANUARY 12, 2022	SCALE: 1 IN. = 20 FT.
PROJECT NO: 4785	DRAWING NO: 6

TH-1

(EL. 45.0'±) GROUND SURFACE

FEET	NO	SB	REC	CLASSIFICATION
1	1	2/3/3/5	12"	GRAY-GRAY BRN.-SAND, SILT, GRAVEL, ASPHALT, CRUSHED STONE (FILL)
	2	3/3/3/5	14"	BRN.-RED BRN. SANDY CLAYEY SILT WITH SANDY SILTY CLAY, TR. GRAVEL, ROCK FRAGMENTS,
5	3	2/2/3/3	18"	THIN FINE ROOTS (ML-CL) (FILL) BRN.-RED BRN. SANDY SILTY CLAY, TR. GRAVEL, ROCK FRAGMENTS, THIN FINE ROOTS (CL) (FILL)
	4	3/3/3/3	15"	
10	5	3/2/2/3	14"	BRN.-RED BRN. - CLAYEY SILT, TR. GRAVEL, FINE SAND (ML) (FILL?)
	6	2/2/2/3	19"	BRN. SILT, TR. FINE SAND, CLAY (ML) (5)
15	7	2/3/3/4	17"	BRN. FINE SAND, TR. SILT (SP) (4)
20	8	4/5/8/8	20"	BRN. MEDIUIM FINE-SAND, TR. SILT, COARSE SAND WITH RED BRN. SILTY FINE-SAND LENS (SP-SM) (4)
25	9	4/8/12/13	18"	

END OF BORING 27'-0"

G.W.T. 7'-3" 10:20AM

TH-2

(EL. 45.0'±) GROUND SURFACE

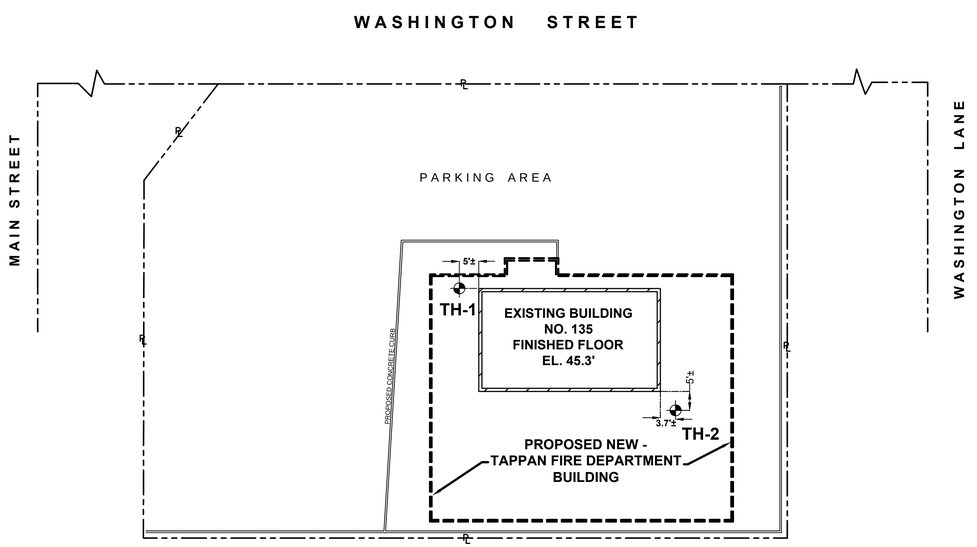
FEET	NO	SB	REC	CLASSIFICATION
				BLACKTOP 3"
1	1	3/6/8/10	12"	DARK BRN.-BLACK-SAND, SILT, GRAVEL (FILL)
	2	4/4/4/5	14"	GRAY BRN.-BRN.-SANDY CLAYEY SILT, TR. GRAVEL, ROCK FRAGMENTS (ML) (FILL)
5	3	6/3/8/8	11"	BRN. SAND, LITTLE GRAVEL, SILT, TR. ROCK FRAGMENTS (SP-SM) (FILL)
	4	4/5/6/8	13"	BRN. SILTY SAND, LITTLE GRAVEL, TR. ROCK FRAGMENTS CLAY (SM) (FILL)
10	5	3/4/3/4	15"	BRN. SAND, TR. GRAVEL, SILT (SP) (4)
	6	2/4/7/7	16"	BRN. SAND, TR. TO LITTLE GRAVEL SILT (SP) (4)
15	7	4/3/4/6	17"	BRN. MEDIUM FINE-SAND, TR. SILT, COARSE SAND, THIN BRN. SILTY-FINE SAND LENS (SP-SM) (4) LIGHT BRN.-BRN.-FINE SAND, LITTLE SILT (SP-SM) (4)
20	8	3/4/5/6	18"	BRN.-DARK BRN. FINE-SAND, TR. TO LITTLE SILT (SP-SM) (4)
25	9	4/8/9/12	14"	BRN. SAND, TR. GRAVEL, LITTLE SILT WITH BRN. FINE SAND, LITTLE SILT LENS (SP-SM) (4)

END OF BORING 27'-0"

G.W.T. 5'-2" 11:30AM

NOTES

1. SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS.
2. SOIL DESCRIPTIONS ARE IN ACCORD WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.
3. GROUND WATER TABLE WAS MEASURED INSIDE THE DRILL CASING AT THE COMPLETION OF EACH SOIL TEST BOREHOLE.
4. SOIL STRATIFICATIONS ARE ACCURATE TO WITHIN TWO FEET VERTICALLY.
5. SOIL SAMPLES WERE OBTAINED USING A CENTRAL MINE EQUIPMENT (CME) AUTOMATIC TRIP HAMMER.
6. SOIL TEST BORING GROUND SURFACE ELEVATIONS SHOWN ARE REFERENCED TO FINISHED FLOOR OF EXISTING BUILDING - AT GIVEN B.M. EL. 45.3' FROM SITE SURVEY PREPARED BY: SENDLEWSKI ARCHITECTS, P.C. .
7. SOIL TEST BORINGS DRILLED IN ACCORD WITH THE NEW YORK STATE BUILDING CODE.



BORING LOCATION PLAN

0 20' 40' 60' 80' 100'

DRAWING SCALE: 1" = 20'±

UNIFIED SOIL CLASSIFICATION

SOIL GROUPS	TYPICAL NAMES AND SOIL SYMBOLS
1a Thru 1d	BEDROCK
GW	WELL GRADED GRAVELS, GRAVEL SAND MIXTURES, LITTLE OR NO FINES
GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES, LITTLE OR NO FINES
GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURE
GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURE
SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
SM	SILTY SANDS, SAND - SILT MIXTURES
SC	CLAYEY SANDS, SAND - CLAY MIXTURES
ML	INORGANIC SILTS, VERY FINE SANDS, CLAYEY SILTS, SLIGHT PLASTICITY
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS SANDY CLAYS, SILTY CLAYS
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

ALLOWABLE FOUNDATION & LATERAL PRESSURES, N.Y.S. BLDG. CODE TABLE 1804.2

CLASS OF MATERIALS	ALLOWABLE FOUNDATION PRESSURE (PSF) [d]	LATERAL BEARING (PSF/F BELOW NATURAL GRADE) [d]	LATERAL SLIDING	
			COEFFICIENT OF FRICTION [a]	RESISTANCE PSF [b]
1. CRYSTALLINE BEDROCK	12,000	1,200	0.70	-
2. SEDIMENTARY & FOLIATED ROCK	4,000	400	0.35	-
3. SANDY GRAVEL & OR GRAVEL (GW & GP)	3,000	200	0.35	-
4. SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL & CLAYEY GRAVEL (SW, SP, SM, SC, GM & GC)	2,000	150	0.25	-
5. CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH AND CH)	1,500 [c]	100	-	130

FOR SI: 1 POUND PER SQUARE FOOT = 0.0479 kPa, 1 POUND PER SQUARE FOOT = 0.157 kPa/m.
a. COEFFICIENT TO BE MULTIPLIED BY THE DEAD LOAD.
b. LATERAL SLIDING RESISTANCE VALUE TO BE MULTIPLIED BY THE CONTACT AREA, AS LIMITED BY SECTION 1804.3.
c. WHERE THE CODE ENFORCEMENT OFFICAL DETERMINES THAT IN PLACE SOILS WITH AN ALLOWABLE BEARING - CAPACITY OF LESS THAN 1,500 PSF ARE LIKELY TO BE PRESENT AT THE SITE, THE ALLOWABLE BEARING CAPACITY SHALL BE DETERMINED BY A SOILS INVESTIGATION.
d. AN INCREASE OF ONE-THIRD IS PERMITTED WHEN USING THE ALTERNATE LOAD COMBINATIONS SECTION 1605.3.2 THAT INCLUDE WIND OR EARTHQUAKE LOADS.

COMPACTION RELATED TO SPOON BLOWS PER FOOT

SAND		SILT & CLAY	
LOOSE	15 OR LESS	SOFT	10 OR LESS
MEDIUM	16 TO 39	MEDIUM	11 TO 29
DENSE	40 OR MORE	HARD	30 OR MORE

" N " STANDARD PENETRATION TEST (2" SPOON, 140lb HAMMER, 30" FALL)

N=17 BLOWS PER FOOT

SPOON BLOW COUNT IS GENERALLY SHOWN IN 6" INCREMENTS FOR 2' DRIVE

TO OBTAIN BLOWS PER FOOT (N) USE THE 2ND & 3RD 6" INCREMENT

	ROTARY CASING	EXTRA HEAVY CASING	SAMPLE SPOON
SIZES, INCHES	2.5		2.0
HAMMER WEIGHT, POUNDS	_____		140
HAMMER FALL, INCHES	_____		30

CB - CASING BLOWSPER 1 FOOT DRIVE
SB - SPOON BLOWS PER 6 INCH DRIVE
P - PUSHED BY WEIGHT OF HAMMER
WOR - WEIGHT OF ROD
UD - UNDISTURBED SOIL SAMPLE
NO - SAMPLE NUMBER
FEET - DEPTH FROM GND. SUR. NOTED AT EACH 5'
WOH - WEIGHT OF HAMMER

THE LIABILITY OF SOIL MECHANICS DRILLING CORP., ITS OFFICERS OR EMPLOYEES, FOR ERRORS, OMISSIONS OR NEGLIGENCE RESULTING IN PERSONAL INJURIES, PROPERTY DAMAGE OR ANY CONSEQUENTIAL DAMAGES, IS LIMITED TO THE AMOUNT OF THE FEE PAID FOR THIS REPORT. THE RETENTION OR USE OF ANY PART OF THIS REPORT WILL CONSTITUTE AN ACCEPTANCE OF THIS LIMITED LIABILITY. IF THIS IS UNACCEPTABLE, THE CLIENT MUST NOTIFY SOIL MECHANICS DRILLING CORP. IN WRITING BY CERTIFIED MAIL, WITHIN SEVEN DAYS FROM THE DATE OF RECEIPT. THE FEE CHARGED FOR THIS REPORT IS BASED ON THIS LIMITATION OF LIABILITY WHICH IS THE ESSENCE OF THIS AGREEMENT.IF THE CLIENT WANTS A HIGHER LIMITATION OF LIABILITY, SOIL MECHANICS DRILLING CORP., WILL NEGOTIATE ONE, BASED UPON A HIGHER FEE BEING CHARGED FOR THE ADDITIONAL ASSUMPTION OF LIABILITY. SOIL MECHANICS DRILLING CORP., ITS OFFICERS OR EMPLOYEES, HAVE NO LIABILITY OR RESPONSIBILITY TO PERSONS OTHER THAN THE CLIENT FOR WHOM THIS REPORT WAS PREPARED. ANYONE, OTHER THAN OUR CLIENT, RELIES ON THIS REPORT AT THEIR OWN RISK.

SENDLEWSKI ARCHITECTS, P.C.
2 1 5 ROANOKE AVENUE
RIVERHEAD, NEW YORK 11901

SOIL MECHANICS DRILLING CORP.

subsoil investigations

3770 MERRICK ROAD * SEAFORD, NEW YORK 11783 * 516 - 221-2333

SUBSURFACE INVESTIGATION

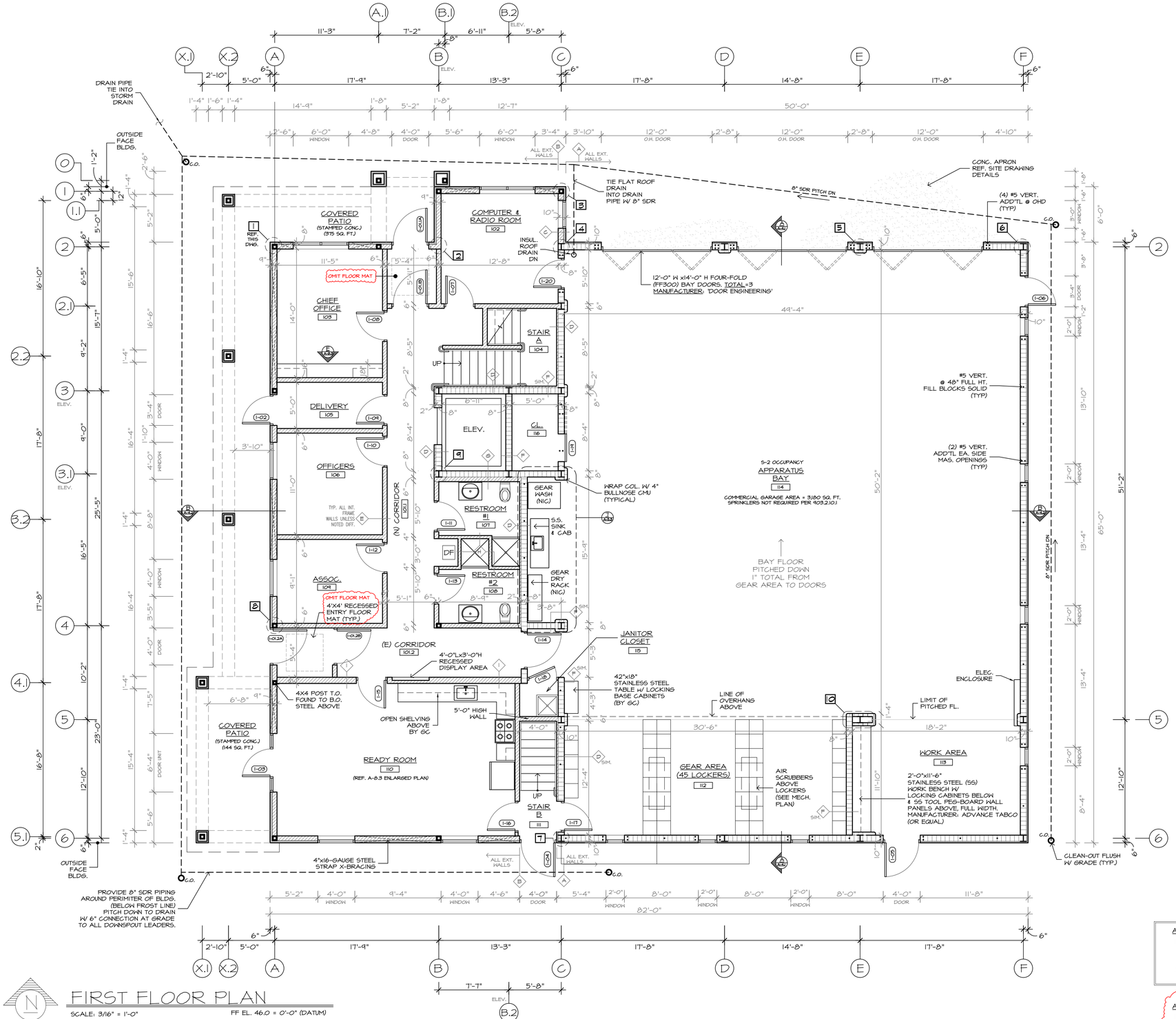
PROPOSED NEW FACILITY TAPPAN FIRE DEPARTMENT

1 3 5 WASHINGTON STREET

TAPPAN, NEW YORK

VERTICAL BORING SCALE:	DRAWING DATE			DRAWING NUMBER
1/2" = 1'-0" UNLESS NOTED OTHERWISE	OCTOBER 27, 2021			21R335.2
DATES OF BORING	DRAWN BY:	CHECKED BY:	REVISED DATE:	SHEET 1 OF 1
OCTOBER 26, 2021	NAR	CV		

Z: 21RDWGS/21R335.2



FIRST FLOOR PLAN

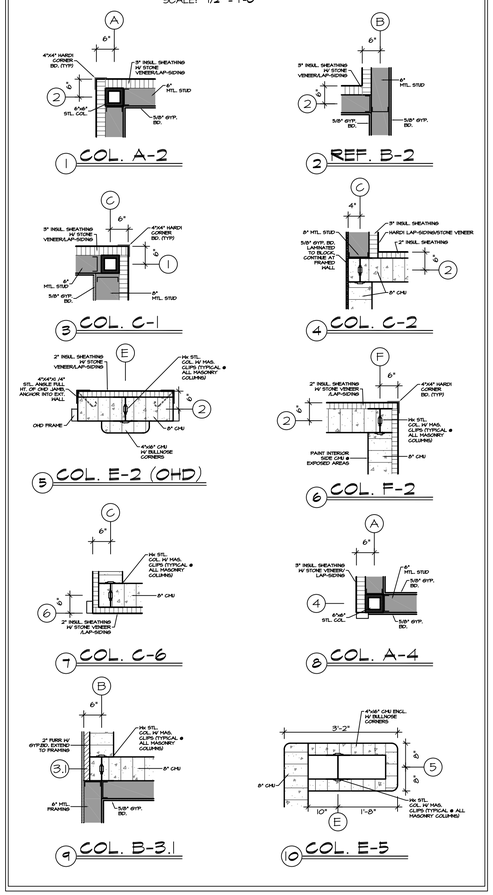
SCALE: 3/16" = 1'-0"

SQUARE FOOTAGE = 5,416

OCCUPANCY B-BUSINESS AND S-2 COMMERCIAL GARAGE PER 304.1 & 311.3
NOTE: OCCUPANCIES ARE NONSEPERATED MIXED USE OCCUPANCY PER 508.3

PIER DETAILS

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



1 COL. A-2 · 2 REF. B-2 · 3 COL. C-1 · 4 COL. C-2 · 5 COL. E-2 (OHD) · 6 COL. F-2 · 7 COL. C-6 · 8 COL. A-4 · 9 COL. B-3.1 · 10 COL. E-5

GEAR LOCKER SCHEDULE

GC TO PROVIDE & INSTALL THE FOLLOWING GEAR GRID LOCKERS (45 LOCKERS TOTAL):
- (2) STANDARD WALL MOUNT 4-PACK LOCKERS
- (1) STANDARD WALL MOUNT 3-PACK LOCKERS
- (1) STANDARD WALL MOUNT 2-PACK LOCKERS
- (8) FREE STANDING CASTER 4-PACK LOCKERS

NOTES:
1. ALL LOCKERS TO HAVE GRIDIRON 6"X6"X12" LOCK BOX
2. ALL LOCKERS TO HAVE TOPSIDE STORAGE SHELF
3. ALL LOCKERS TO HAVE STANDARD POWER BAR (POWER BY ELEC.)
4. COLOR TO BE SELECTED BY OWNER

NOTES:
1. REFER TO A-5 DRAWINGS FOR CLEAR DIMENSIONS OF STAIRWELLS.
2. REFER TO A-8.2 DRAWING FOR CLEAR DIMENSIONS OF RESTROOMS.
3. GC TO PROVIDE & INSTALL 4'X4' RECESSED FLOOR MAT @ VESTIBULE ENTRY DOORS - TWO (2) TOTAL.
4. 5/8" HI-IMPACT SHEETROCK SHALL BE USED AT ALL CORRIDORS/STAIRS DELIVERY AREA & STORAGE ROOMS, UP TO +4'-0" AFF, TYPICAL ALL LEVELS.
5. INSULATION AT ALL FRAMED WALLS & ROOF SHALL BE CLOSED-CELL SPRAY FOAM TYPE. R-VALUES AS PER SPEC & DETAILS.
6. ALL EXPOSED CMU & STEEL SHALL RECEIVE FULL PRIME & PAINT FINISH (REFER TO PAINTING SPEC FOR TYPE).
7. ALL EXPOSED CMU SHALL GET BULLNOSE AT OUTSIDE-TURN CORNERS.
8. GC SHALL PROVIDE COPY OF ELEVATOR SHOP DRAWINGS TO ELECTRICAL CONTRACTOR PRIOR TO ORDER, & COORDINATE WITH EC TO VERIFY ELECTRICAL REQUIREMENTS (HP, VOLTAGE, CIRCUITS, ETC...)

APPARATUS BAY TRUCK DOOR NOTES:
1. GC SHALL SUPPLY & INSTALL ALL ITEMS ASSOCIATED WITH THREE (3) NEW DOOR ENGINEERING' FOUR-FOLD STYLE APPARATUS BAY TRUCK DOORS (MODEL FF300) INCLUDING DOOR UNIT/TRACKS, MOTOR, BUTTON/MANUAL CONTROLS, SAFETY & ELEC. EYE SENSORS, ETC... IN DIRECT COORDINATION WITH DOOR MANUFACTURER & ELECTRICAL CONTRACTOR.
2. 'DOOR ENGINEERING' MANUFACTURER SHALL INSTALL ALL CONTROL WIRING, POWER WIRING SHALL BE BY ELECTRICAL CONTRACTOR.

ADDENDUM NOTE (OVERHEAD DOORS):
1. GC SHALL SUPPLY & INSTALL AUXILIARY END SWITCHES IN OVERHEAD DOORS FOR C.O. VENTING DETECTOR TO BE TIED INTO OVERHEAD DOOR & FAN CONTROLLERS, AS NEEDED TO OPEN DOORS & OPERATE FANS WHEN SWITCHES ARE ACTIVATED.

DATE: ISSUE

01-20-2022 ISSUED FOR BID & PERMIT

10-14-2022 REVISED FOR CONSTRUCTION

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PROPOSED NEW FACILITY
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135 WASHINGTON STREET
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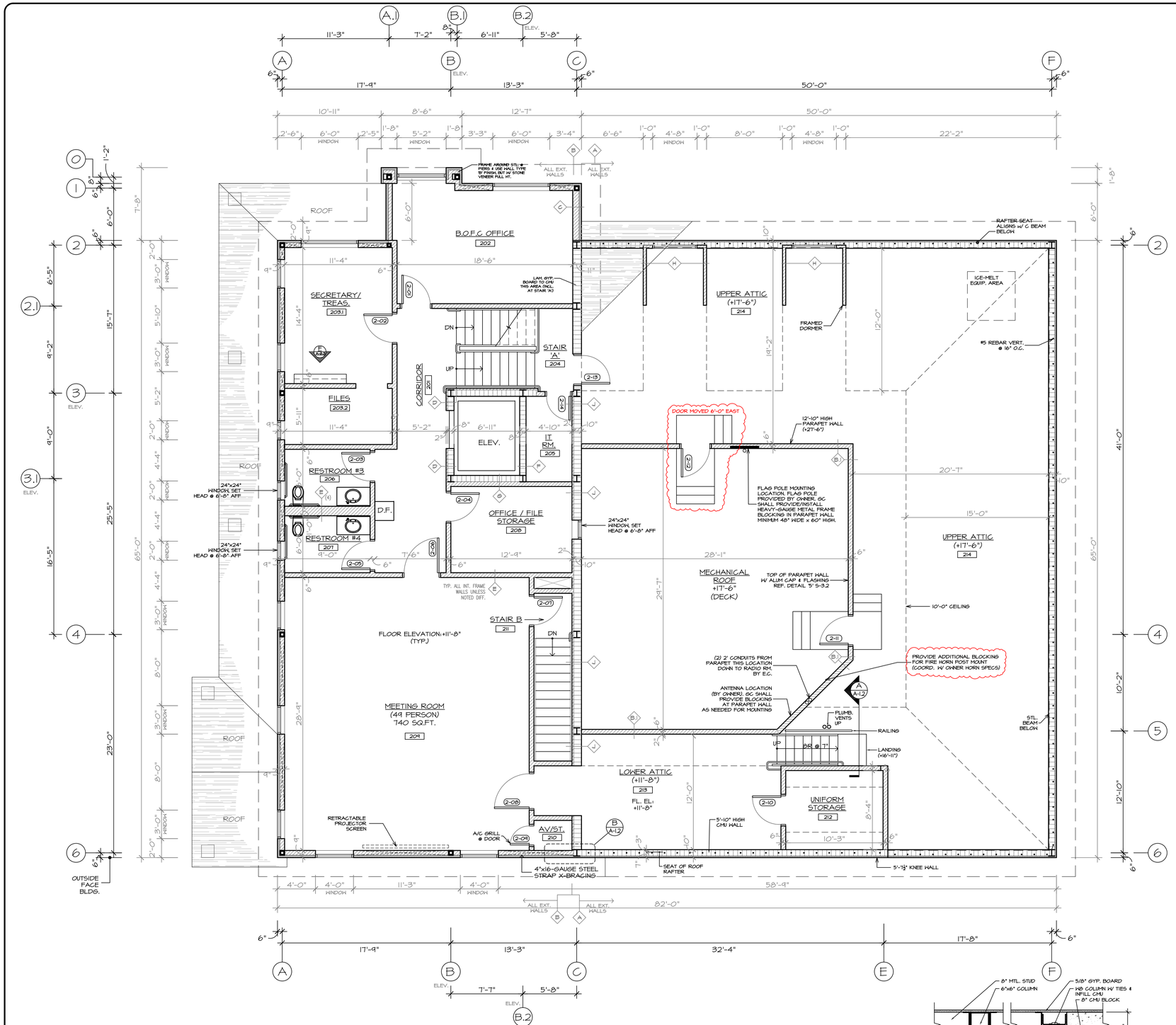
FIRST FLOOR PLAN & DETAILS

PROJECT #: 2108.01A

DRAWN BY:

CAD FILE: 2108.01A/P./BID

DRAWING#: A-1.1

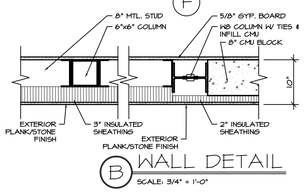


WALL TYPES:

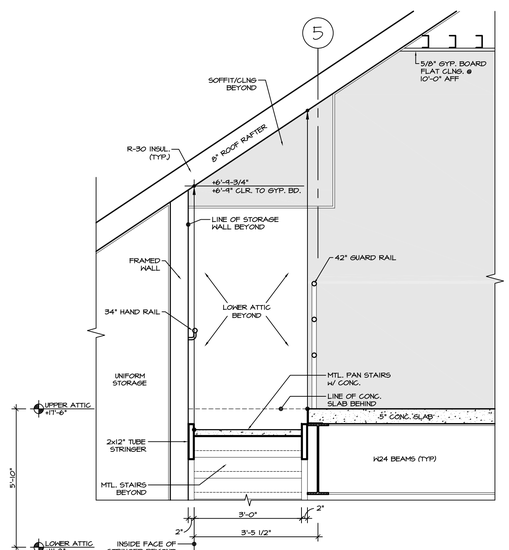
A	EXT. MASONRY WALL	8" REINFORCED C.M.U. WALL W/ 2" INSULATED SHEATHING & HARDI-PLANK LAP SIDING/STONE VENEER (BELOW) AT EXTERIOR SIDE. 8" C.M.U. TO HAVE DAMPROOFING THROUGHOUT AT EXTERIOR SIDE. INTERIOR SIDE TO HAVE FULL HEIGHT PAINT FINISH.
B	6" EXTERIOR FRAMED WALL	6" EXTERIOR FRAMED WALL W/ 6" 20 GA. STL. STUDS @ 16" O.C., FULL HT. TO DECK ABOVE W/ R-30 CLOSED-CELL SPRAY-FOAM INSULATION (CONTINUOUS). 3" INSULATED SHEATHING & HARDI-PLANK LAP SIDING/STONE VENEER (BELOW) AT EXTERIOR SIDE, AND 5/8" GYP. BD. (PAINTED) AT INTERIOR SIDE.
B.1	6" EXTERIOR FRAMED WALL	6" EXTERIOR FRAMED WALL W/ 6" 20 GA. STL. STUDS @ 16" O.C., FULL HT. W/ R-30 CLOSED-CELL SPRAY-FOAM INSULATION (CONTINUOUS). 3" INSULATED SHEATHING & HARDI-PLANK LAP SIDING AT EXTERIOR SIDE, AND 5/8" GYP. BD. (PAINTED) AT INTERIOR SIDE.
C	8" EXTERIOR FRAMED WALL	SAME AS WALL TYPE 'B', BUT USING 8" 20 GA. STL. STUDS & 2" INSULATED SHEATHING.
D	8" CMU WALL (FURR. 1-SIDE)	8" REINFORCED C.M.U. WALL W/ 2" METAL FURRING & 5/8" GYP. BD. (PAINTED) AT CORRIDOR (NON-SHAFT) SIDE. INCLUDE HIGH-IMPACT GYP. BD. UP TO 48" AFF TYPICAL.
E	6" WALL	6" WALL W/ 6" 20 GA. STL. STUDS @ 16" O.C. FULL HT. TO DECK ABOVE, AND 4" BATT. INSUL. W/ 5/8" GYP. BD. EACH SIDE. WALL TO EXTEND FULL HEIGHT TO DECK. NOTES: 1. INCLUDE HIGH-IMPACT GYP. BD. UP TO 48" AFF AT CORRIDOR SIDE. 2. INCLUDE WATER/MOLD RESISTANT GYP. BD. AT LOCATIONS OF SHOWERS/TOILETS/SINKS/ETC.. 3. THIS SHALL BE THE TYPICAL INTERIOR FRAMED WALL TYPE UNLESS DESIGNATED OTHERWISE ON PLANS). 4. USE DOUBLE 6" WALL @ 2ND FL. RESTROOM LOCATION.
F	8" C.M.U. WALL	8" REINFORCED CMU WALL TO UNDERSIDE OF DECK ABOVE. PAINT FINISH ONE SIDE @ ELEVATOR NON-SHAFT SIDE). PAINT BOTH SIDES AT 8" CMU WALLS.
G	8" C.M.U. WALL W/ 6" STL. STUDS	8" REINFORCED CMU WALL W/ 6" STL. STUDS @ 16" O.C., & 5/8" MOLD-RESISTANT GYP. BD. (PAINTED) ON FINISHED (NON-SHAFT) SIDE. EXTEND FULL HT TO BOTTOM OF DECK ABOVE.
H	4" WALL	4" WALL W/ 4" 20 GA. STL. STUDS @ 16" O.C. FULL HT. TO DECK ABOVE, AND 4" BATT. INSUL. W/ 5/8" GYP. BD. EACH SIDE. WALL TO EXTEND FULL HEIGHT TO DECK. NOTES: 1. INCLUDE HIGH-IMPACT GYP. BD. UP TO 48" AFF AT CORRIDOR SIDE. 2. INCLUDE WATER/MOLD RESISTANT GYP. BD. AT LOCATIONS OF SHOWERS/TOILETS/SINKS/ETC.. 3. INCLUDE EXTERIOR HARDI-PLANK SYSTEM FINISH AT DORMERS.
I	8" WALL	8" WALL W/ 8" 20 GA. STL. STUDS @ 16" O.C., FULL HT. TO DECK ABOVE, AND 6" BATT. INSUL. W/ 5/8" GYP. BD. EACH SIDE. WALL TO EXTEND FULL HEIGHT TO DECK. NOTES: 1. INCLUDE HIGH-IMPACT GYP. BD. UP TO 48" AFF AT CORRIDOR SIDE. 2. INCLUDE WATER/MOLD RESISTANT GYP. BD. AT LOCATIONS OF SHOWERS/TOILETS/SINKS/ETC..
J	10" CMU WALL	10" REINFORCED C.M.U. WALL W/ 2" METAL FURRING & 5/8" GYP. BD. (PAINTED) AT INTERIOR SIDE. 2" INSULATED SHEATHING & HARDI-PLANK LAP SIDING FINISH AT EXTERIOR SIDE.

ADD'TL NOTES:

1. CMU WALL REINFORCING TO BE #4 REBAR @ 32" O.C. FULL HT. CORE FILLED W/ 3000 PSI CONC. & TRUSS REINF. @ 16" FULL HEIGHT TO DECK.
2. ALL GYPSUM BOARD USED SHALL BE 5/8" TYPE 'X' & RECEIVE PAINT FINISH. (REFER TO ENLARGED PLANS/ELEVATIONS FOR LOCATIONS WHERE ADDITIONAL WALL FINISH IS REQUIRED - IE: TILE)



B WALL DETAIL
SCALE: 3/4" = 1'-0"



A STAIR DETAIL
SCALE: 1/2" = 1'-0"

SECOND/ATTIC FLOOR PLAN 5,468 SQ. FT. - 803 FLAT ROOF = 4,665 SQ. FT.

SCALE: 3/16" = 1'-0" (SECOND/LOW ATTIC FL EL. +11'-8") (UPPER ATTIC EL. +17'-6")

OCCUPANCY B-BUSINESS INCLUDING STORAGE ATTIC AREAS PER 304.1 (NO FIRE SEPARATION REQUIRED)

DATE: ISSUE

07-20-2022 ISSUED FOR BID & PERMIT

10-14-2022 REVISED FOR CONSTRUCTION

SEAL:

REGISTERED ARCHITECT MARTIN F. SENDLEWSKI NEW YORK STATE OF NEW YORK

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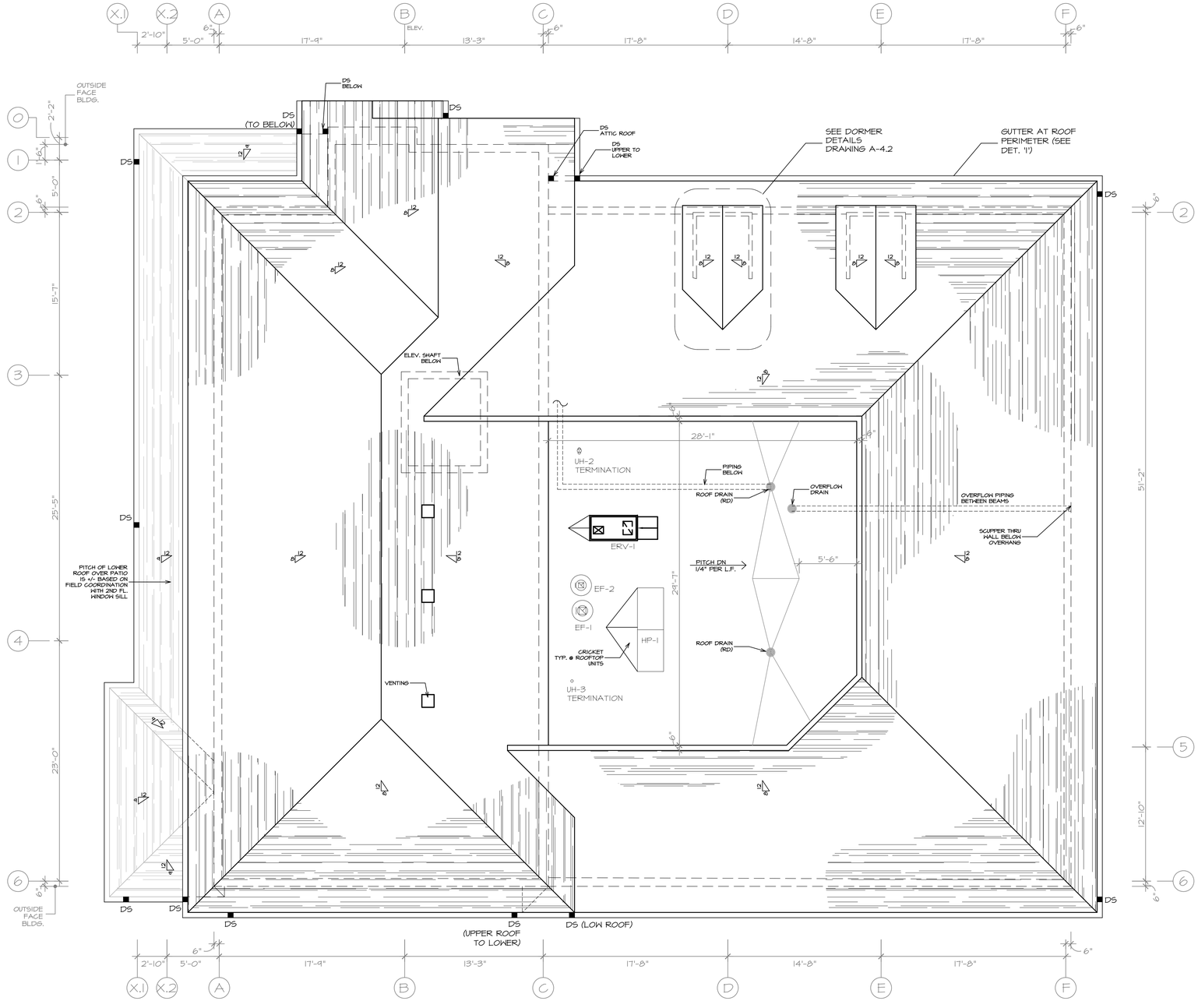
SECOND/ATTIC FLOOR PLAN

PROJECT #: 2108.01A

DRAWN BY:

CAD FILE: 2108.01A/P./BID

DRAWING#: A-1.2



ROOF PLAN

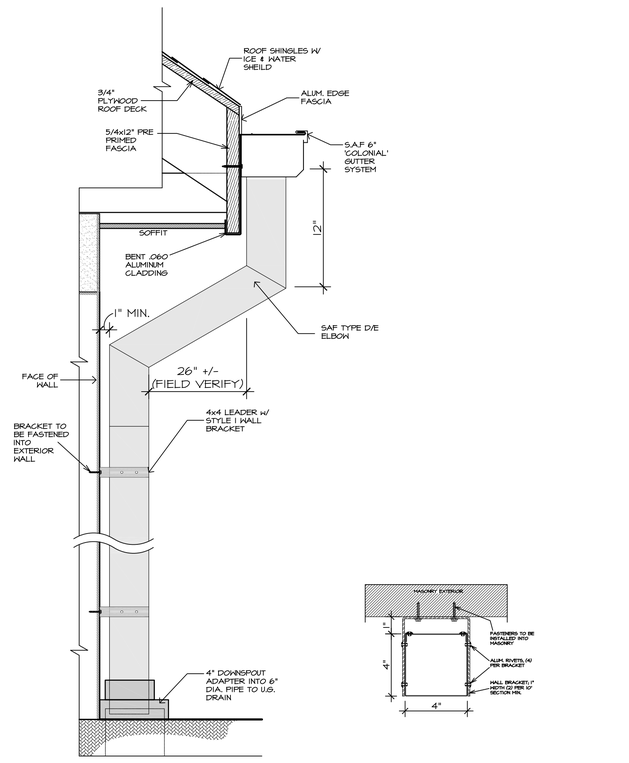
SCALE: 3/16" = 1'-0"

NOTE:
- COORDINATE ROOF FRAMING & FLAT ROOF LAYOUT W/ SECOND FLOOR PLAN & S-3.1 ROOF FRAMING PLAN.
- REFER TO ALL MECHANICAL/PLUMBING/ELECTRIC PLANS FOR COORDINATION OF ROOF MOUNTED/PENETRATING ITEMS.

■ DS = DOWNSPOUT LOCATION FROM GUTTER TO U.G. DRAINAGE

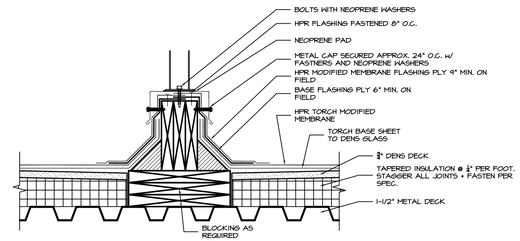
ADDENDUM NOTE:
- POLY ISO INSULATION SHALL BE PROVIED/INSTALLED IN LIEU OF EPS INSULATION.

ADDENDUM NOTE:
- FLAT ROOF WALKING PADS SHALL BE PROVIDED/INSTALLED BY GC, AS INDICATED BY OWNER.



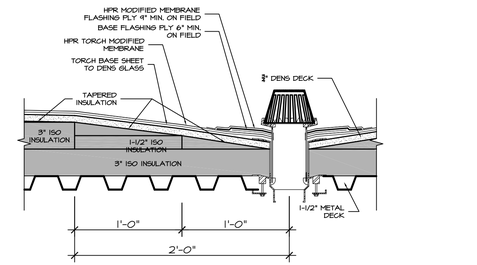
1 GUTTER/LEADER DETAIL

SCALE: NTS



B ROOF DETAIL AT MECH. CURB

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



C ROOF DETAIL AT ROOF DRAIN

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

DATE: ISSUE

07-20-2022 ISSUED FOR BID & PERMIT

10-14-2022 REVISED FOR CONSTRUCTION

SEAL:

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MATTHEW F. SENDLEWSKI
No. 027167
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TAPPAN, NY 10983

ROOF PLAN & DETAILS

PROJECT #: 2108.01A

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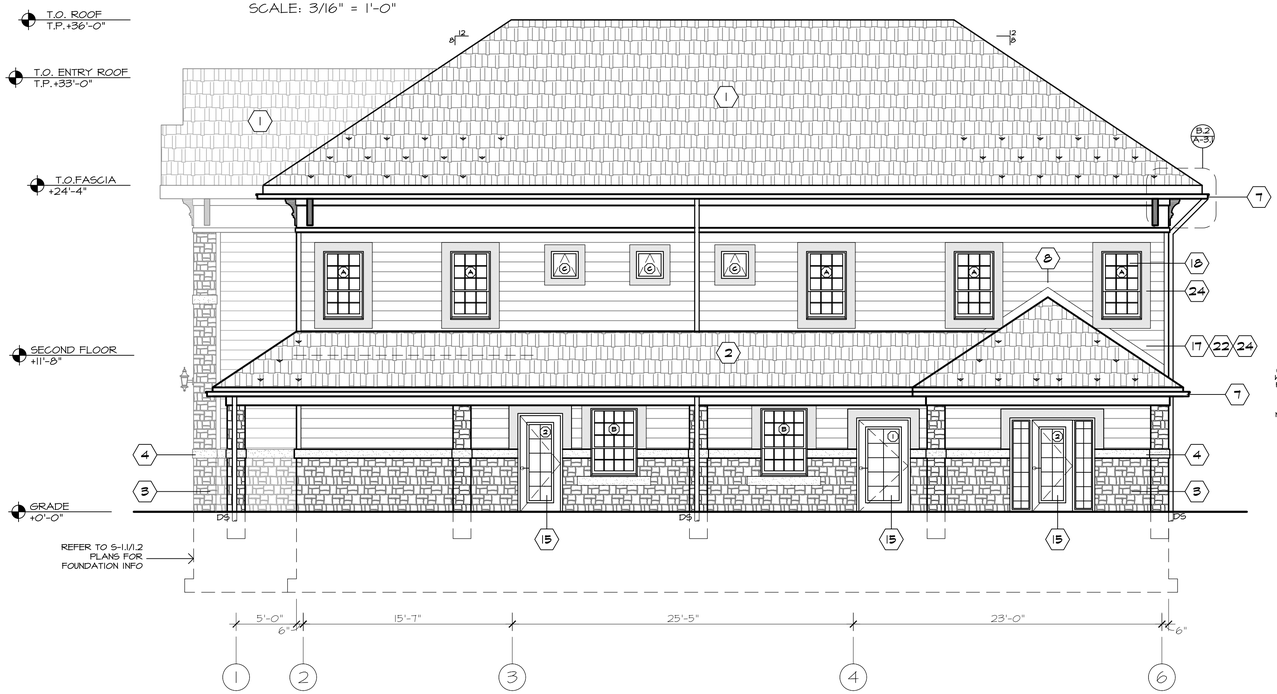
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A-2.1



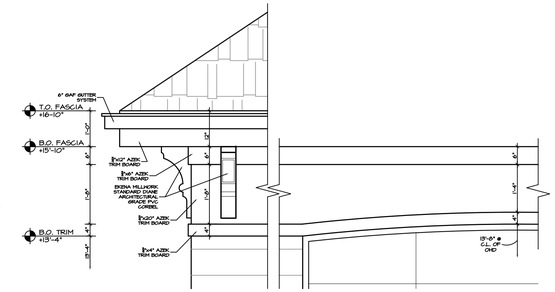
NORTH ELEVATION

SCALE: 3/16" = 1'-0"



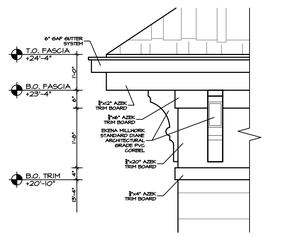
WEST ELEVATION

SCALE: 3/16" = 1'-0"



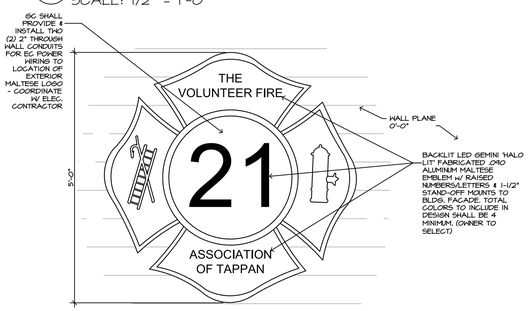
B.1 OVERHANG DETAIL

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



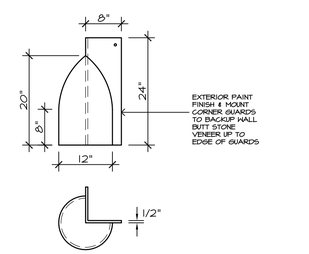
B.2 OVERHANG DETAIL

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



A MALTESE DETAIL

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



C WHEEL GUARD DETAIL

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

LEGEND

1. ALL SLOPED ROOF AREAS SHALL BE TRUSS/B'RR SIZED W/ 15# HOMASOTE NFGR ROOF DECKING W/ TYVEK PROTEC UNDERLAYMENT FELT AND 6.A.F "TIMBERLINE" ROOFING SHINGLES (OR EQUAL) TYPICAL. COLOR 'SLATE' BY DEFAULT & TO BE CONFIRMED BY OWNER.
2. LOW ROOF AREAS SHALL BE 8" MARINO C JOIST @ 16"O.C. W/ TYVEK PROTEC UNDERLAYMENT FELT AND SAME ROOF SHINGLES AS NOTE 1, W/ 1 1/2" HOMASOTE NFGR DECK.
3. EXTERIOR MASONRY VENEER SHALL BE 60/40 MIXTURE OF SHOULDICE ESTATE STONE 'NORTON' (60%) & SHOULDICE ESTATE STONE 'HAMPTON' (40%), BY KINGS MATERIALS.
4. HORIZONTAL ACCENT BANDS SHALL BE 8"x4"x MAX LENGTH PRECAST 'ROCK-CAST' SELECT STONE SPLIT-FACE FINISH, OR EQUAL. COLOR TO BE SELECTED BY OWNER.
5. COPPER SNOWGUARD BY "ALPINE SNOW GUARDS" MODEL #40R SNOWGUARD
6. NUMBERS/LETTERS SHALL BE METAL ARTS OR EQUAL (800) 237-8069, CAST METAL LETTERS 18" HIGH x 3/4" DEEP TIMES BD. 210 STYLE WITH # 20 ACRYLIC BAKED ENAMEL FINISH. MOUNT WITH PMS-3 ALUMINUM TUBE SPACERS. VERIFY FINISH COLOR W/ OWNER.
7. GUTTER SHALL BE 5.A.F 6" CORNIAL GUTTER SYSTEM W/ 4"X4" DOWNSPOUTS.
8. STRAIGHT LINE FLASHING. TYPICAL ALL ROOF AREAS.
9. 24"x12" HEAVY DUTY CAST IRON WHEEL GUARD BY TRENCH DRAIN SUPPLY (MODEL: R-4486-DG) WITH PAINT FINISH, COLOR SELECTED BY OWNER.
10. NEW 12'-0"W x 14'-0"H FOUR-FOLD APPARATUS BAY DOOR. DOORS SHALL BE BY 'DOOR ENGINEERING' MODEL #FF300, INSULATED DOORS WITH RED FINISH.
11. NEW HOLLOW-METAL INSULATED DOOR & FRAME. PROVIDE 4" HEAD AT MASONRY LOCATIONS.
12. FASCIA & TRIM SHALL BE PRE-PRIMED 5/4X12 W/ .062 ALUM. WRAP (COLOR WHITE)
13. 5'-0" DIA. CUSTOM MALTESE CROSS. REFER TO DETAIL 'A' ON A-3.1. GC TO PROVIDE & INSTALL W/ ASSOCIATED MOUNTS, HARNESS, TRANSFORMER, ETC., TO MAKE COMPLETE. ELECTRICIAN SHALL MAKE FINAL POWER WIRING CONNECTION.
14. DECORATIVE LIGHTS. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE. MOUNT BOX 8'-0" TO BOTTOM.
15. STOREFRONT ALUM/GLASS DOOR UNITS SHALL BE KAWNEER 350T SERIES. APPLIES TO DOORS 101.1A, 101.1B, 101.2A, 101.2B, 1-02, 1-03 & 1-14.
16. 16" x 24" BRONZE PLAQUE (SIMILAR TO DWG. O-0 PLAQUE DETAIL) TO BE CAST W/ CUSTOM TEXT/DATE, TO BE CONFIRMED W/ OWNER.
17. COORDINATE ALL EXTERIOR OUTLETS IN MASONRY WITH ELECTRICAL CONTRACTOR
18. WINDOWS SHALL BE ANDERSEN 400 SERIES 'STORM MATCH' TYPICAL. REFER TO DRAWING A-3.3 FOR ADDITIONAL WINDOW SPEC INFORMATION.
19. WALL PACK LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE.
20. FLOOD LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE.
21. BRASS THRU WALL OVERFLOW SCUPPER TO BE ZURN Z198, PIPED AND INSULATED THRU FROM WALL SCUPPER @ ROOF.
22. THROUGH WALL VENTS/LOUVERS/PIPES/ETC., COORDINATE M.O. W/ DEDICATED CONTRACTOR. REFER TO M/E/P DRAWINGS AS NECESSARY. VENTS/LOUVERS PROVIDED BY DEDICATED CONTRACTOR & INSTALLED BY GC.
23. 12' VERTICAL WALL-MOUNT FLAG POLE BY EDER FLAG (MODEL: EVHS-12), INSTALLED AT FLAT-ROOF NORTH PARAPET WALL PROVIDED & INSTALLED BY GC (INCLUDE ASSOCIATED BLOCKING AS REQ'D.)
24. HARDIE-PLANK STATEMENT COLLECTION 'SMOOTH' LAP SIDING, SIZE: 8" EXPOSURE. (COLOR: PEARL GRAY) W/ MATCHING CORNER TRIM (WHITE) TYP. ALL BUILDING CORNERS. INCLUDE HARDIE 4/4 NT3 SMOOTH 6" TRIM BOARDS (COLOR: ARTIC WHITE) AT ALL WINDOWS & DOORS TYPICAL.
25. 5'W X 9'D X 18'/22'H STANDARD 'DIANE' ARCHITECTURAL GRADE PVC CORBEL BY EKENA MILLWORK (OR EQUAL). COLOR/FINISH: RED

NOTE:
- ALL EXTERIOR FINISHES (MASONRY/VENEER/SIDING/TRIM/ETC.) SHALL BE FULLY CLEANED FREE OF STAINS/DEBRIS AS PART OF CLOSE-OUT AT PROJECTS END.
- COORDINATE ALL ROOF GUTTER LEADERS WITH ROOF PLAN & MANUFACTURER FOR LOCATIONS.

(-) DENOTES DOOR/WINDOW TYPE (REFER TO DOOR/WINDOW ELEVATION DETAILS DWG.)

DATE: ISSUE

07-20-2022 ISSUED FOR BID & PERMIT

SEAL:

REGISTERED ARCHITECT MICHAEL F. SENDLEWSKI NEW YORK STATE OF NEW YORK

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(845) 275-8859

PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

ELEVATIONS (WEST/NORTH)

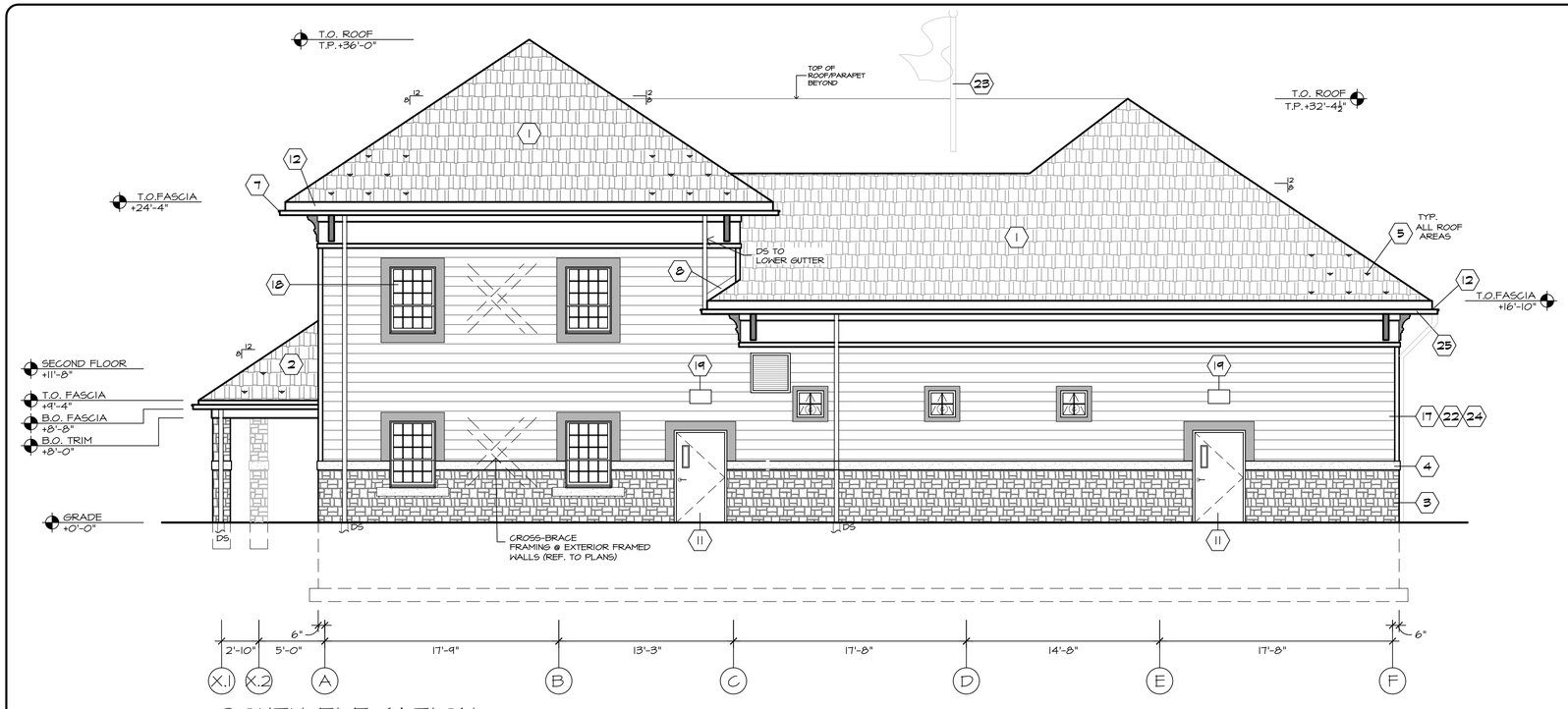
PROJECT #: 2108.01A

DRAWN BY:

CAD FILE: 2108.01A/P:/BID

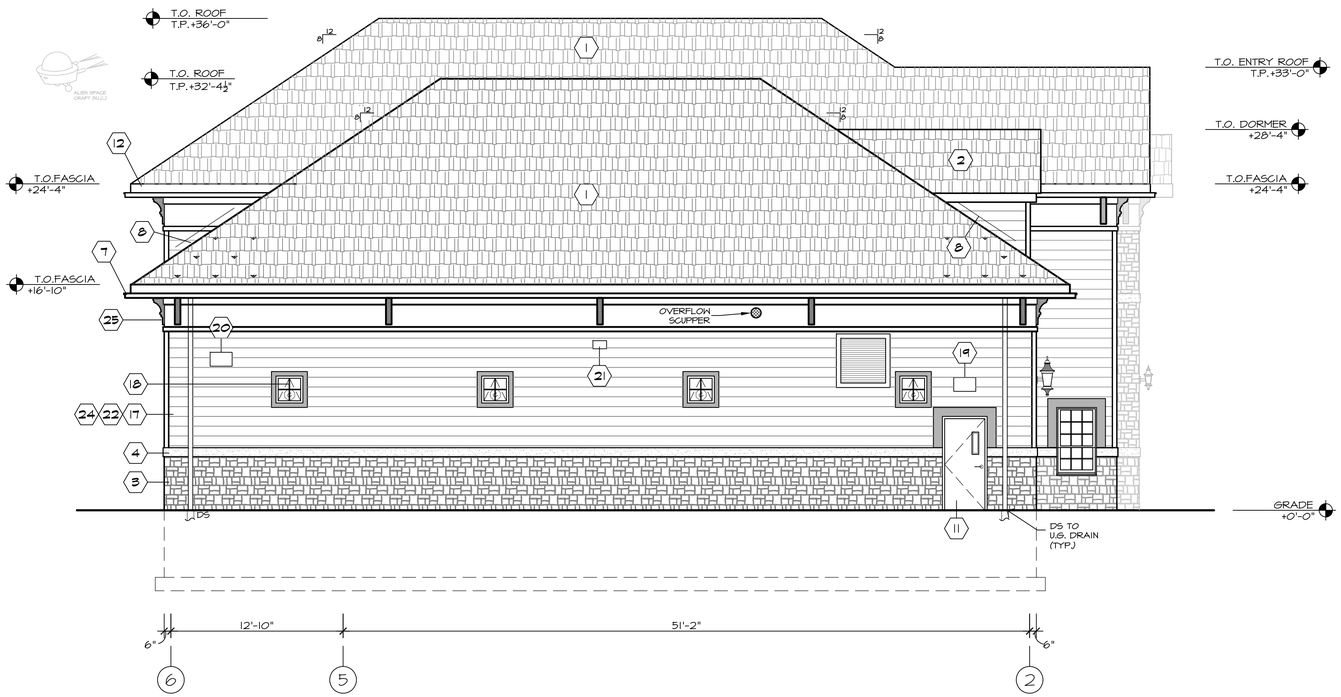
DRAWING#:

A-3.1



SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



EAST ELEVATION

SCALE: 3/16" = 1'-0"

LEGEND

1	ALL SLOPED ROOF AREAS SHALL BE TRUSS@RR SIZED W/ ½" HOMASOTE NFGR ROOF DECKING W/ TYVEK PROTEC UNDERLAYMENT FELT AND G.A.F "TIMBERLINE" ROOFING SHINGLES (OR EQUAL) TYPICAL. COLOR 'SLATE' BY DEFAULT & TO BE CONFIRMED BY OWNER.
2	LOW ROOF AREAS SHALL BE 8" MARINO C JOIST @ 16"O.C. W/ TYVEK PROTEC UNDERLAYMENT FELT AND SAME ROOF SHINGLES AS NOTE 1, W/ 1 1/2" HOMASOTE NFGR DECK.
3	EXTERIOR MASONRY VENEER SHALL BE 60/40 MIXTURE OF SHOULDICE ESTATE STONE 'NORTON' (60%) & SHOULDICE ESTATE STONE 'HAMPTON' (40%), BY KINGS MATERIALS.
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5	COPPER SNOWGUARD BY "ALPINE SNOW GUARDS" MODEL #40R SNOWGUARD
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7	GUTTER SHALL BE S.A.F 6" CORNIAL GUTTER SYSTEM W/ 4"X4" DOWNSPOUTS.
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13	5'-0" DIA. CUSTOM MALTESE CROSS. REFER TO DETAIL 'A' ON A-3.1. GC TO PROVIDE & INSTALL W/ ASSOCIATED MOUNTS, HARNESS, TRANSFORMER, ETC... TO MAKE COMPLETE. ELECTRICIAN SHALL MAKE FINAL POWER WIRING CONNECTION.
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15	STOREFRONT ALUM/GLASS DOOR UNITS SHALL BE KAWNEER 350T SERIES. APPLIES TO DOORS 101.1A, 101.1B, 101.2A, 101.2B, 1-02, 1-03 & 1-14.
16	16" x 24" BRONZE PLAQUE (SIMILAR TO DWG. 0-0 PLAQUE DETAIL) TO BE CAST W/ CUSTOM TEXT/DATE, TO BE CONFIRMED W/ OWNER.
17	COORDINATE ALL EXTERIOR OUTLETS IN MASONRY WITH ELECTRICAL CONTRACTOR
18	WINDOWS SHALL BE ANDERSEN 400 SERIES 'STORM WATCH' TYPICAL. REFER TO DRAWING A-3.3 FOR ADDITIONAL WINDOW SPEC INFORMATION.
19	WALL PACK LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE.
20	FLOOD LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE.
21	BRASS THRU WALL OVERFLOW SCUPPER TO BE ZURN Z1149, PIPED AND INSULATED THRU FROM WALL SCUPPER @ ROOF.
22	THROUGH WALL VENTS/LOUVERS/PIPES/ETC., COORDINATE M.O. W/ DEDICATED CONTRACTOR. REFER TO M/E/P DRAWINGS AS NECESSARY. VENTS/LOUVERS PROVIDED BY DEDICATED CONTRACTOR & INSTALLED BY GC.
23	12' VERTICAL WALL-MOUNT FLAG POLE BY EDER FLAG (MODEL: EVM5-12), INSTALLED AT FLAT-ROOF NORTH PARAPET WALL PROVIDED & INSTALLED BY GC (INCLUDE ASSOCIATED BLOCKING AS REQ'D.)
24	HARDIE-PLANK STATEMENT COLLECTION 'SMOOTH' LAP SIDING, SIZE: 8" EXPOSURE. (COLOR: PEARL GRAY) W/ MATCHING CORNER TRIM (WHITE) TYP. ALL BUILDING CORNERS. INCLUDE HARDIE 4/4 NT3 SMOOTH' 6" TRIM BOARDS (COLOR: ARTIC WHITE) AT ALL WINDOWS & DOORS TYPICAL.
25	5"W X 9"D X 18"/22"H STANDARD 'DIANE' ARCHITECTURAL GRADE PVC CORBEL BY EKENA MILLWORK (OR EQUAL). COLOR/FINISH: RED

NOTE:

- ALL EXTERIOR FINISHES (MASONRY/VENEER/SIDING/TRIM/ETC.) SHALL BE FULLY CLEANED FREE OF STAINS/DEBRIS AS PART OF CLOSE-OUT AT PROJECTS END.
- COORDINATE ALL ROOF GUTTER LEADERS WITH ROOF PLAN & MANUFACTURER FOR LOCATIONS.

(-) DENOTES DOOR/WINDOW TYPE (REFER TO DOOR/WINDOW ELEVATION DETAILS DWG.)

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SEAL:



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WALDEN, NY 12586
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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

ELEVATIONS (EAST/NORTH) & DETAILS

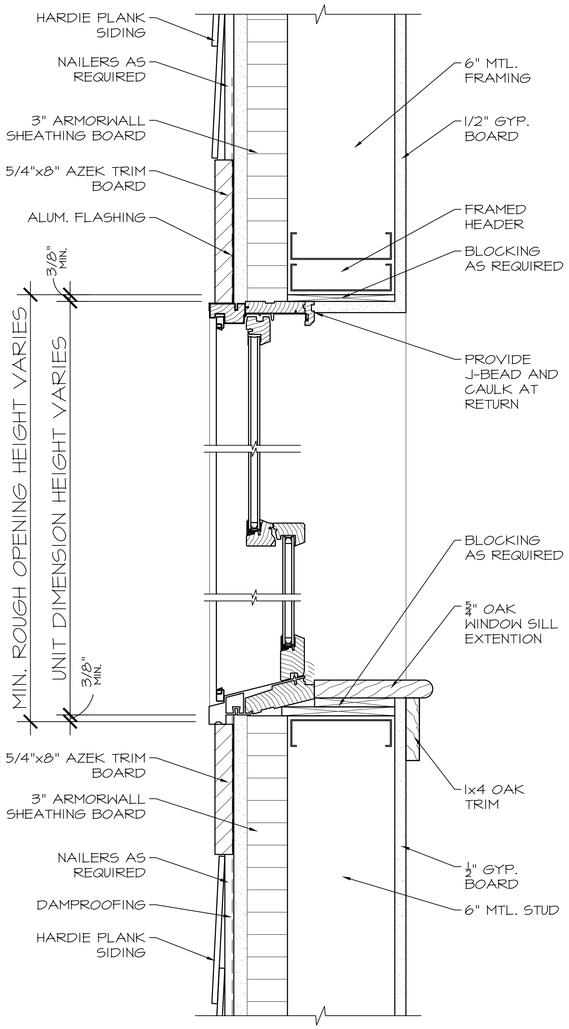
PROJECT #: 2108.01A

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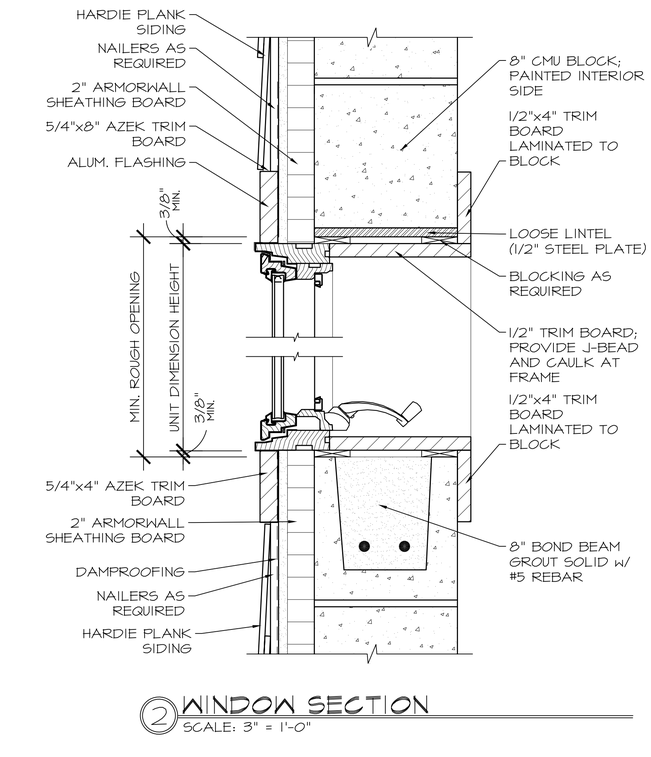
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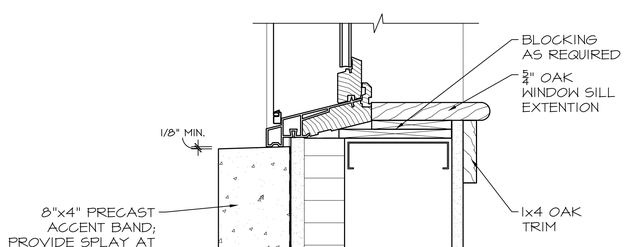
A-3.2



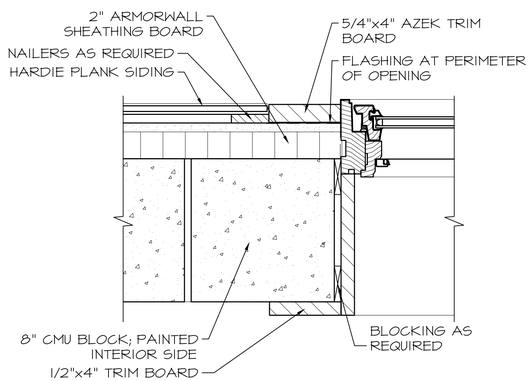
1 WINDOW SECTION
SCALE: 3" = 1'-0"



2 WINDOW SECTION
SCALE: 3" = 1'-0"

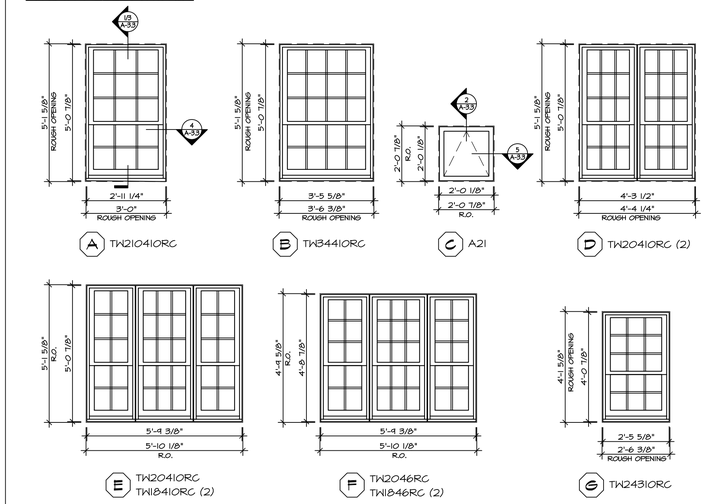


3 WINDOW SECTION
SCALE: 3" = 1'-0"



5 WINDOW JAMB DETAIL @ BLOCK
SCALE: 3" = 1'-0"

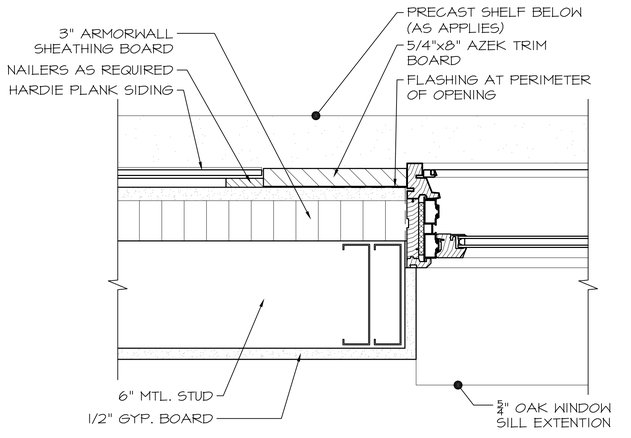
WINDOW ELEVATIONS:



WINDOW SCHEDULE AND NOTES

- ALL WINDOWS SHALL BE ANDERSEN 400-SERIES W/ STORM WATCH PROTECTION, UNLESS OTHERWISE NOTED.

DESIGNATION	MODEL	MANUFACTURER	FINISH		GLASS	HARDWARE	GRILLES	NOTES
			EXTERIOR	INTERIOR				
A	TW21041ORC	ANDERSEN	WHITE	WHITE	LOW-E4	CLASSIC SERIES, WHITE	COLONIAL COTTAGE, CUSTOM.	TRUSCENE WINDOW SCREEN W/ WHITE FRAME FINISH
B	TW3441ORC	ANDERSEN	WHITE	WHITE	LOW-E4	CLASSIC SERIES, WHITE	COLONIAL COTTAGE, CUSTOM.	TRUSCENE WINDOW SCREEN W/ WHITE FRAME FINISH
C	A21	ANDERSEN	WHITE	WHITE	LOW-E4	CLASSIC SERIES, WHITE		TRUSCENE WINDOW SCREEN W/ WHITE FRAME FINISH
D	TW2046RC TW1846RC	ANDERSEN	WHITE	WHITE	LOW-E4	CLASSIC SERIES, WHITE	COLONIAL COTTAGE, CUSTOM.	TRUSCENE WINDOW SCREEN W/ WHITE FRAME FINISH
E	TW2040RC TW1846RC	ANDERSEN	WHITE	WHITE	LOW-E4	CLASSIC SERIES, WHITE	COLONIAL COTTAGE, CUSTOM.	TRUSCENE WINDOW SCREEN W/ WHITE FRAME FINISH
F	TW2431ORC	ANDERSEN	WHITE	WHITE	LOW-E4	CLASSIC SERIES, WHITE	COLONIAL COTTAGE, CUSTOM.	TRUSCENE WINDOW SCREEN W/ WHITE FRAME FINISH



4 WINDOW JAMB DETAIL @ FRAMING
SCALE: 3" = 1'-0"

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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

WINDOW ELEVATIONS & DETAILS

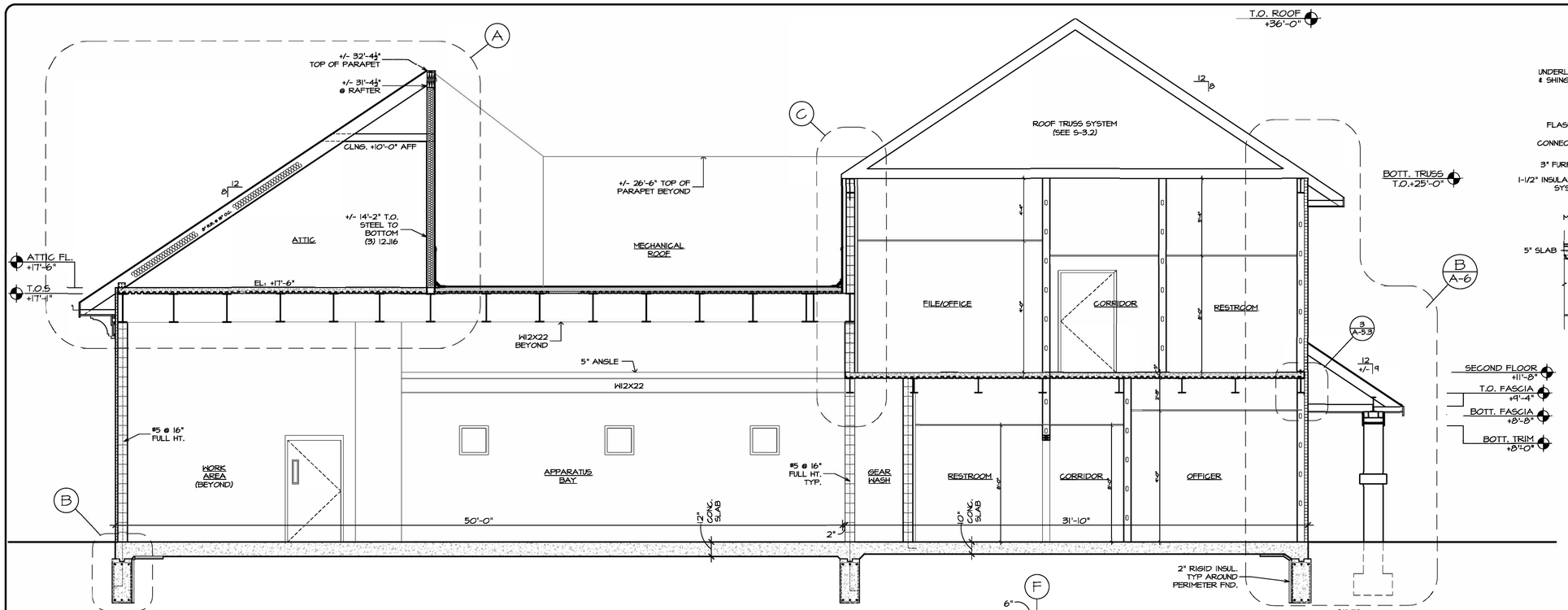
PROJECT #: 2108.01A

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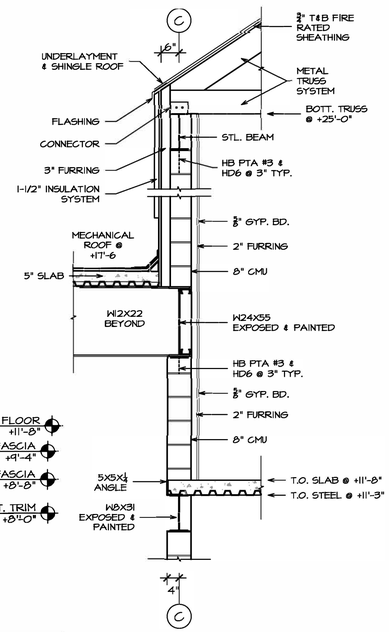
DRAWING#:

A-3.3



B BUILDING SECTION

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



C DETAIL

SCALE: 1" = 1'-0"

ROOF TRUSS NOTES:
STEEL ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

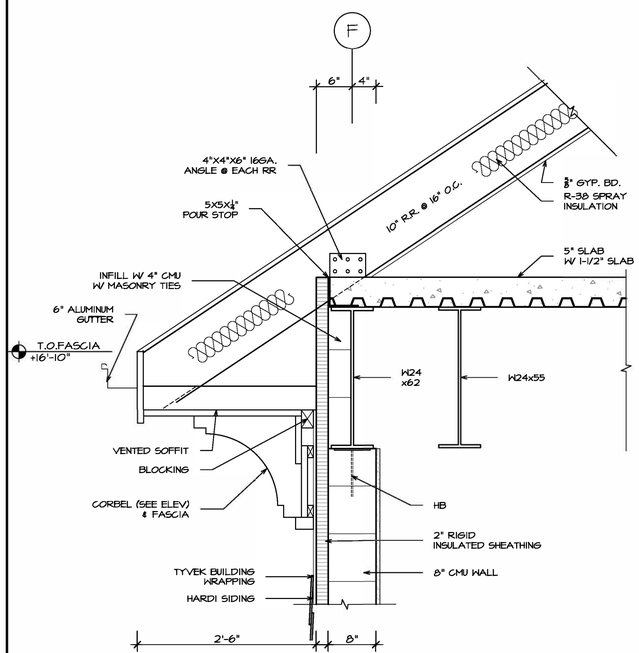
1. LOADING:

TOP CHORD LIVE LOAD	36psf
TOP CHORD DEAD LOAD	10psf
BOTTOM CHORD LIVE LOAD	10psf
BOTTOM CHORD DEAD LOAD	9psf
TOTAL =	65psf

2. TRUSSES TO BE DESIGNED FOR WIND LOAD OF 42psf.
3. PROVIDE ALL TEMPORARY & PERMANENT LATERAL BRACING AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY.
4. SHOP DRAWINGS PREPARED & SEALED BY A N.Y.S. LICENSED PROFESSIONAL ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT OR RECORD FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW MEMBER FORCES, STEEL GRADES, AND ALL DETAILS OF CONNECTIONS.

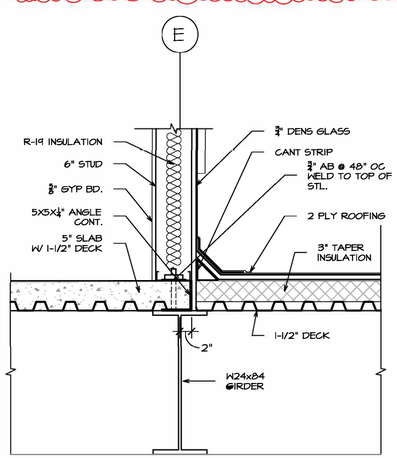
INSULATION REQUIREMENTS FOR PROJECT.

1. ROOF INSULATION SHALL BE R-38 FOIL FACED (TYPICAL ALL AREAS)
2. WALL INSULATION SHALL BE R-19 FOIL FACED (TYPICAL ALL AREAS)



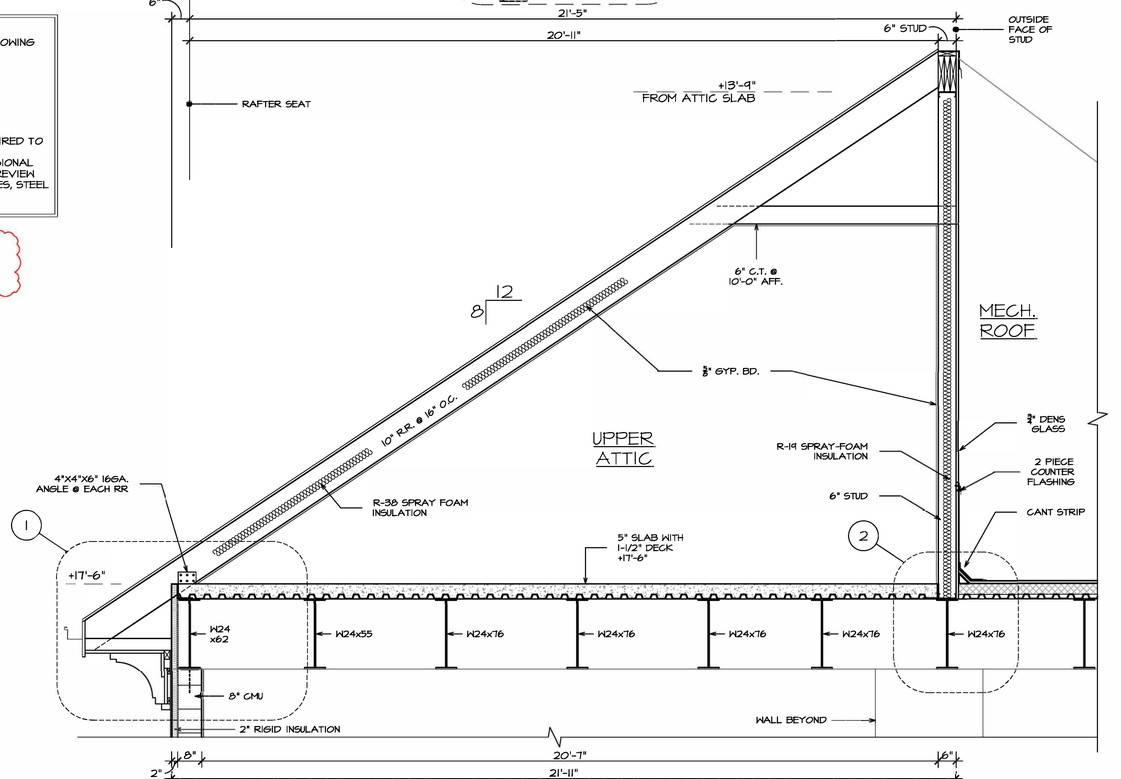
1 DETAIL

SCALE: 1" = 1'-0"



2 DETAIL

SCALE: 1" = 1'-0"



A DETAIL

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

DATE: ISSUE

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1 10-14-2022 REVISED FOR CONSTRUCTION

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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

BUILDING SECTION 'A' & DETAILS

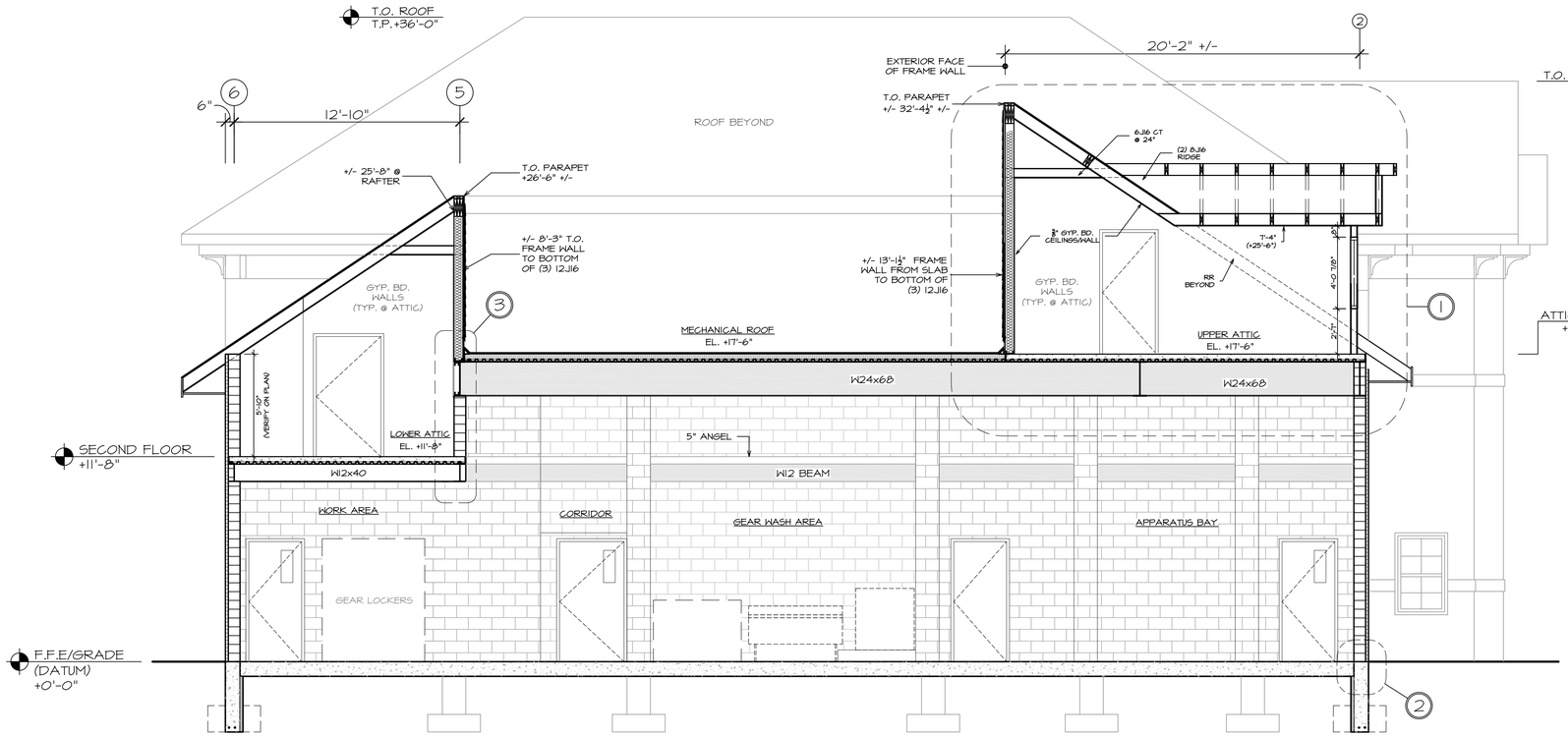
PROJECT #: 2108.01A

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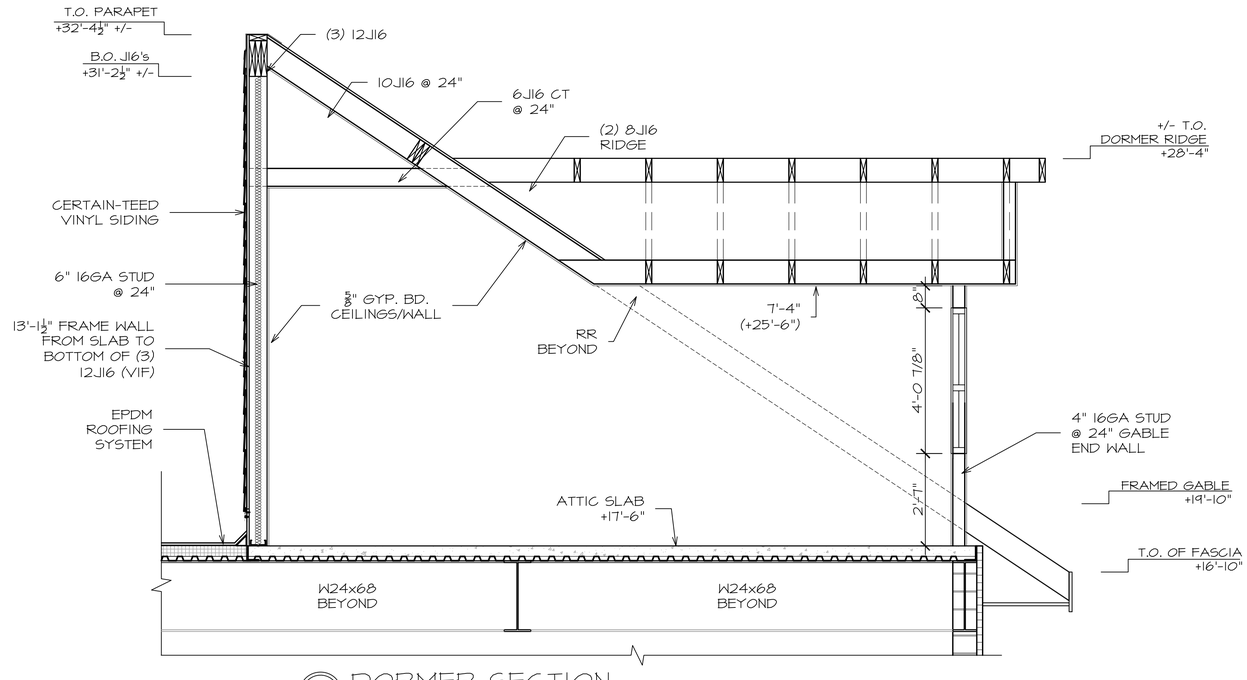
DRAWING#:

A-4.1



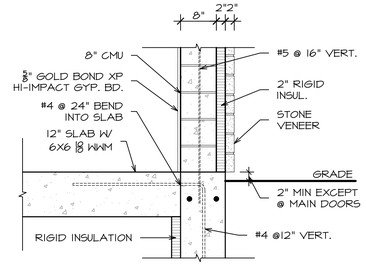
B BUILDING SECTION

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



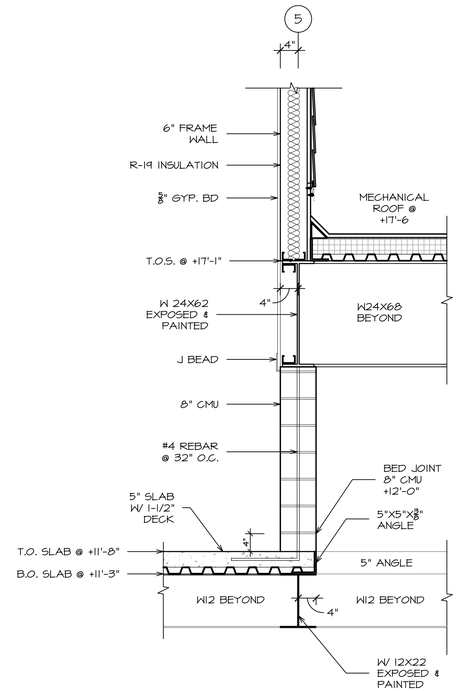
1 DORMER SECTION

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



2 FOUNDATION DETAIL

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



3 WALL DETAIL

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

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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

BUILDING SECTION 'B' & DETAILS

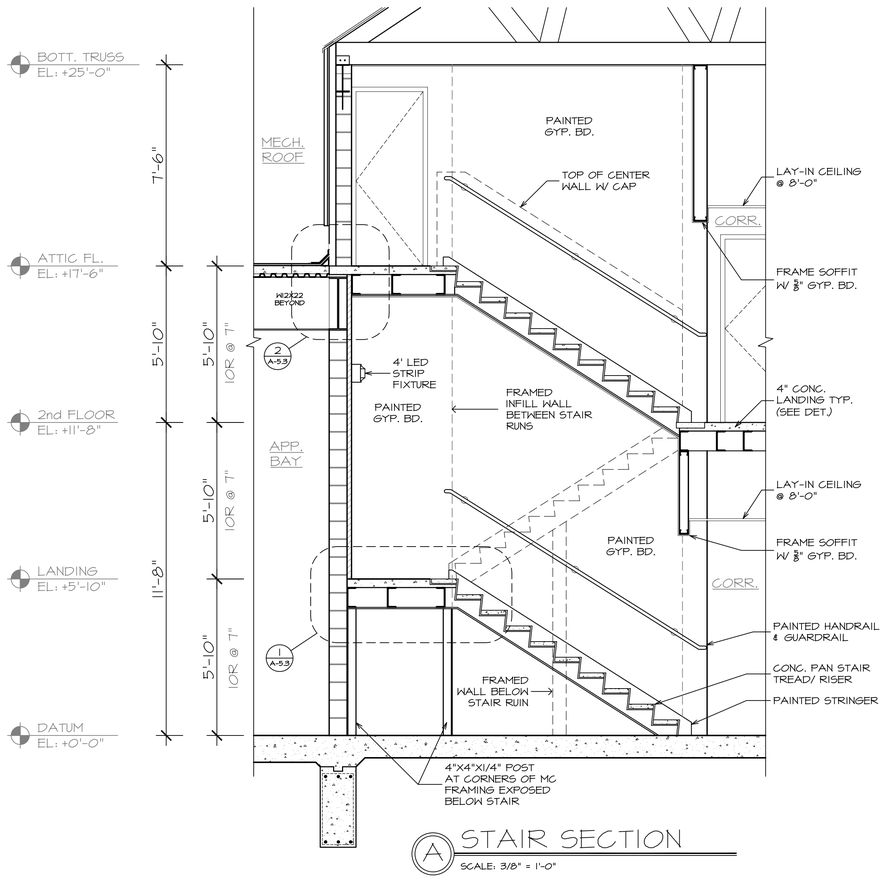
PROJECT #: 2108.01A

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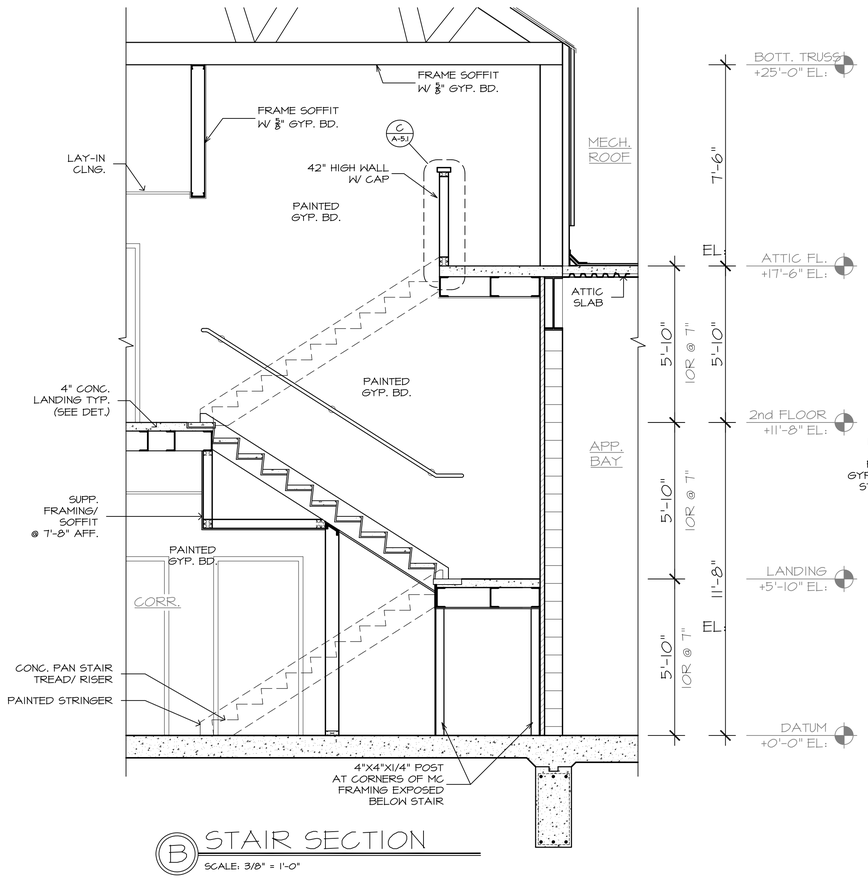
DRAWING#:

A-4.2



A STAIR SECTION

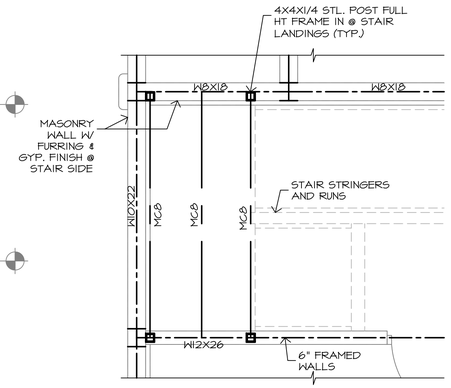
SCALE: 3/8" = 1'-0"



B STAIR SECTION

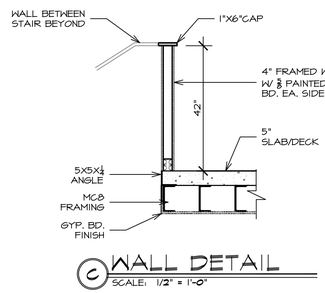
SCALE: 3/8" = 1'-0"

NOTE:
1. PROVIDE J-BEAD TRIM FOR EDGES OF ALL GYP. BD. & STEEL TERMINATIONS, INCLUDING AT UNDERSIDE OF STAIR LANDINGS/RUNS, PRIOR TO PAINTING.
2. UNDERSIDE OF ANY EXPOSED STEEL, METAL STRINGERS, RAILS, ETC., SHALL RECEIVED PAINT FINISH TYPICAL.
3. VERIFY CLEAR DIMENSIONS OF STAIR OPENING WITH ARCHITECT, STRUCTURAL PLANS & SHOP DRAWINGS PRIOR TO ORDER.



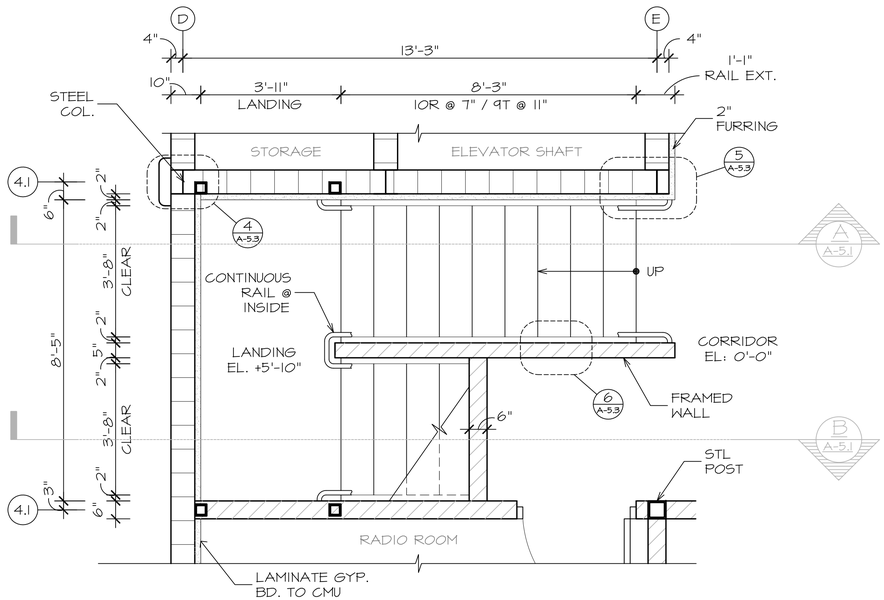
D STAIR LANDING DETAIL

SCALE: 3/8" = 1'-0"



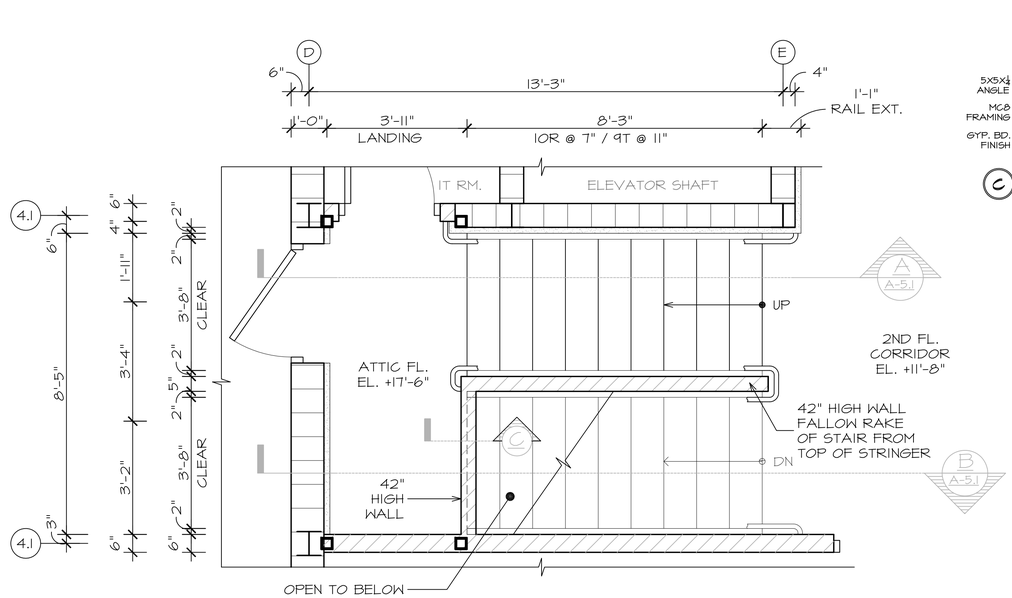
E WALL DETAIL

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



1 FIRST FLOOR STAIR PLAN

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



2 2ND FL. / ATTIC STAIR PLAN

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

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STAIR "A" PLAN & SECTION

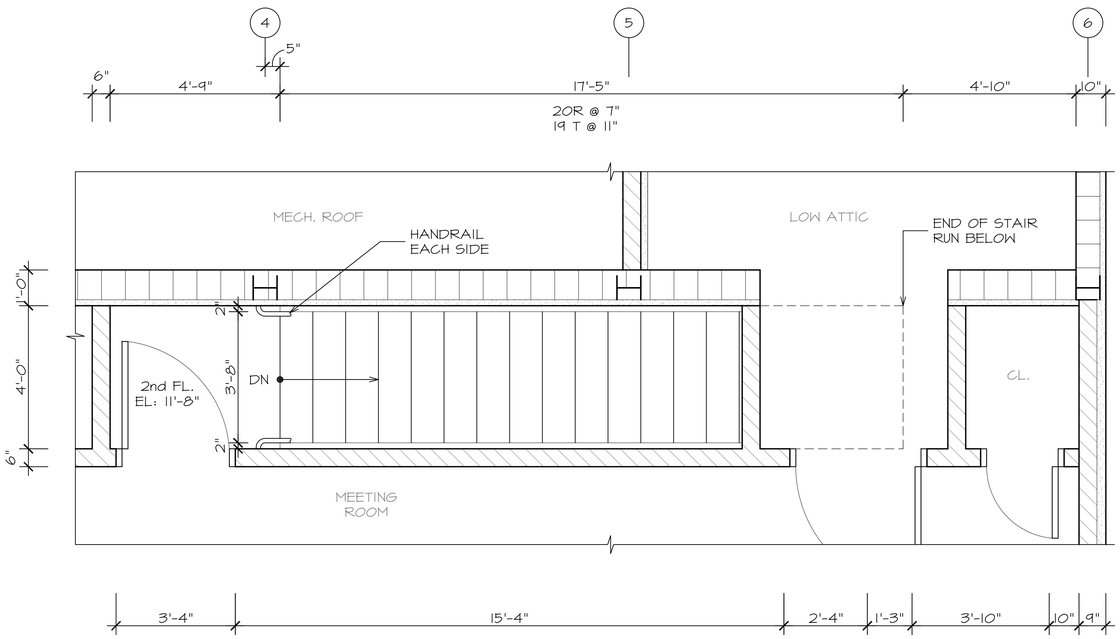
PROJECT #: 2108.01A

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CAD FILE: 2108.01A/P:/BID

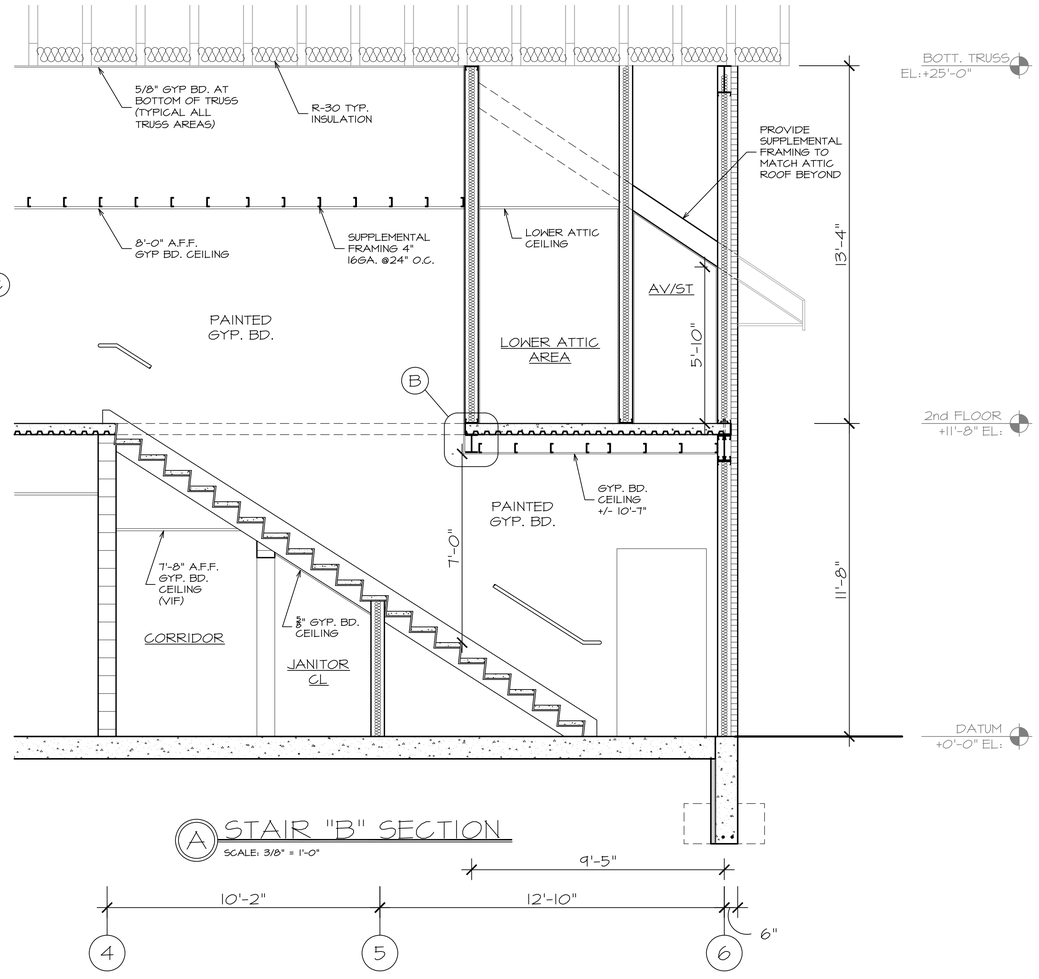
DRAWING#:

A-5.1



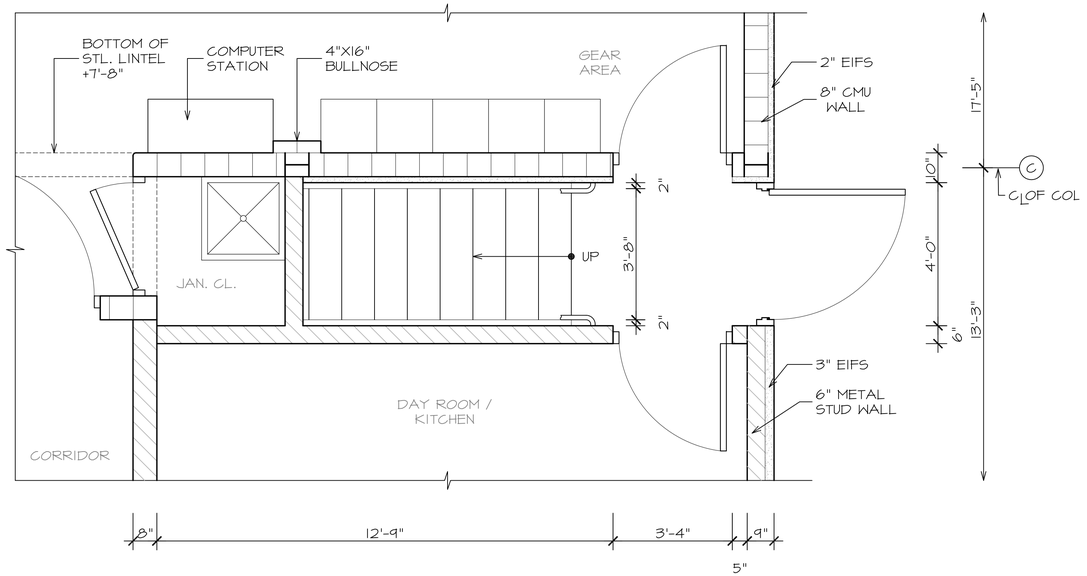
2 SECOND FLOOR STAIR PLAN

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



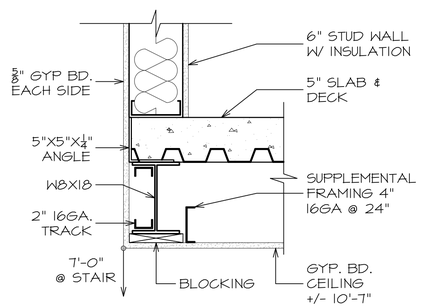
A STAIR "B" SECTION

SCALE: 3/8" = 1'-0"



1 FIRST FLOOR STAIR PLAN

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



B DETAIL

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

NOTE:
1. PROVIDE J-BEAD TRIM FOR EDGES OF ALL GYP. BD. & STEEL TERMINATIONS, INCLUDING AT UNDERSIDE OF STAIR LANDINGS/RUNS, PRIOR TO PAINTING.
2. UNDERSIDE OF ANY EXPOSED STEEL, METAL STRINGERS, RAILS, ETC.. SHALL RECEIVED PAINT FINISH TYPICAL.
3. VERIFY CLEAR DIMENSIONS OF STAIR OPENING WITH ARCHITECT, STRUCTURAL PLANS & SHOP DRAWINGS PRIOR TO ORDER.

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STAIR "B" PLAN & SECTION

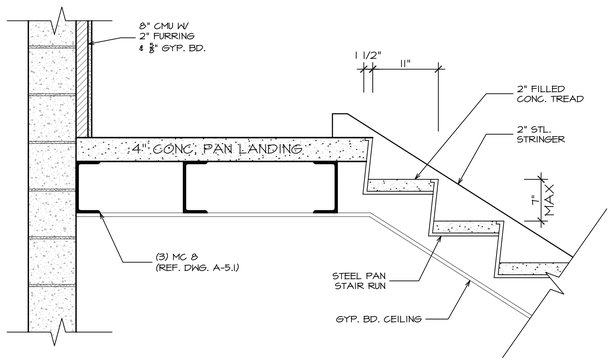
PROJECT #: 2108.01A

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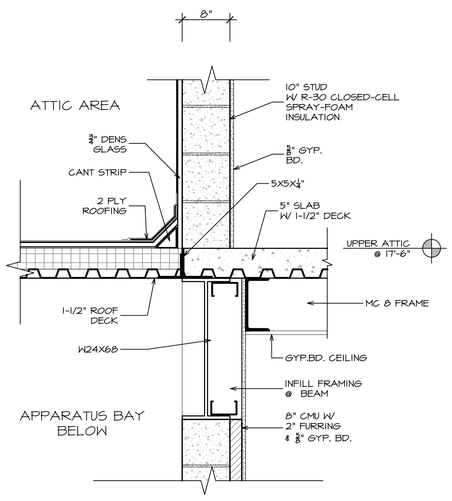
DRAWING#:

A-5.2



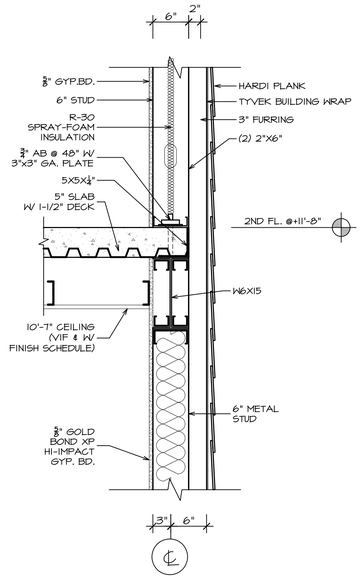
1 STAIR TREAD DETAIL

SCALE: 1" = 1'-0"



2 STAIR LANDING DETAIL

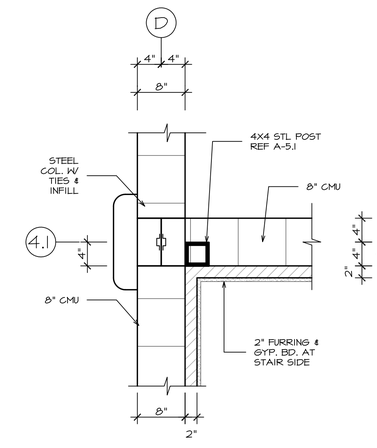
SCALE: 1" = 1'-0"



3 WALL DETAIL

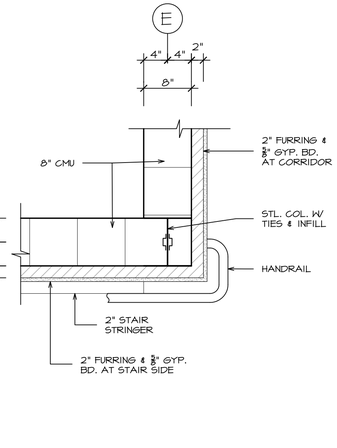
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(REF. DWG. A-4.1)



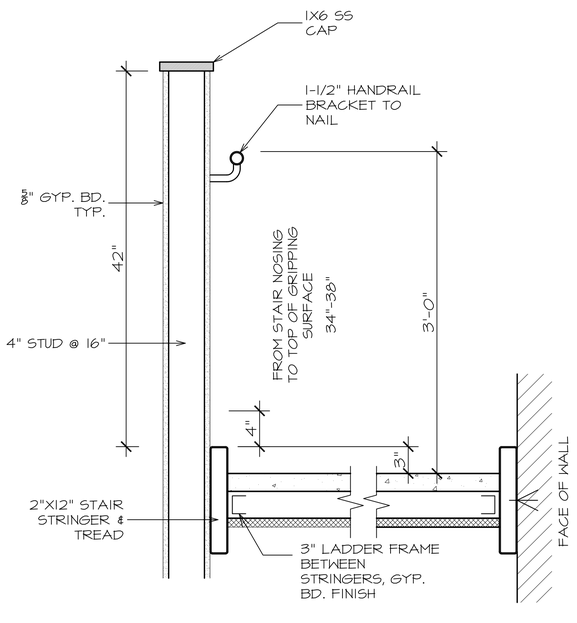
4 STAIR POST DETAIL

SCALE: 1" = 1'-0"



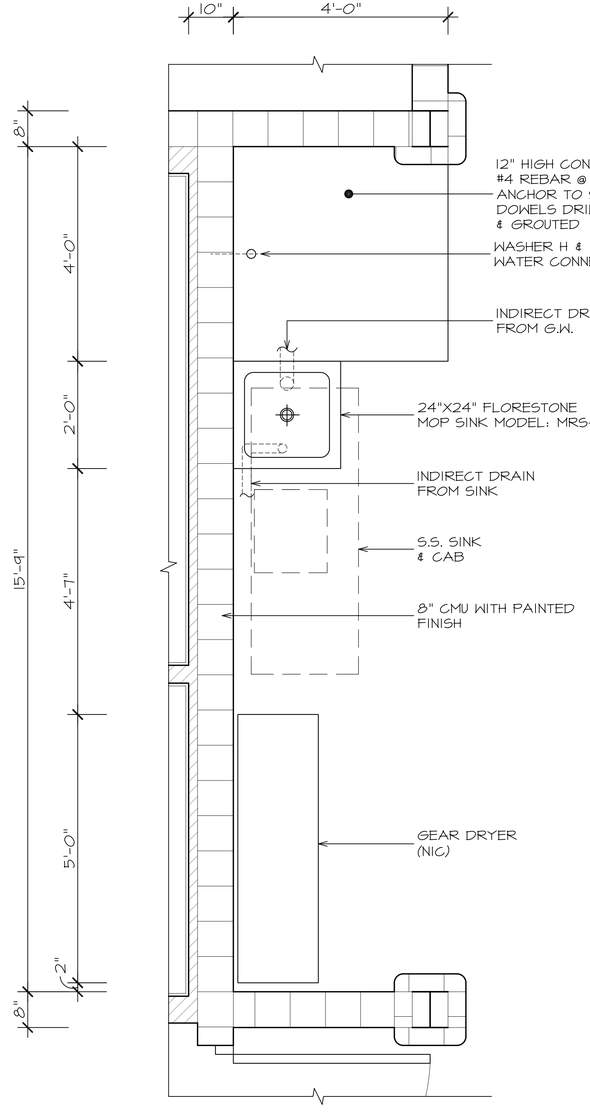
5 STAIR POST DETAIL

SCALE: 1" = 1'-0"



6 HANDRAIL DETAIL

SCALE: 1" = 1'-0"



7 GEAR WASH PLAN

SCALE: 1" = 1'-0"

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STAIR DETAILS & ENLARGED GEAR WASH PLAN

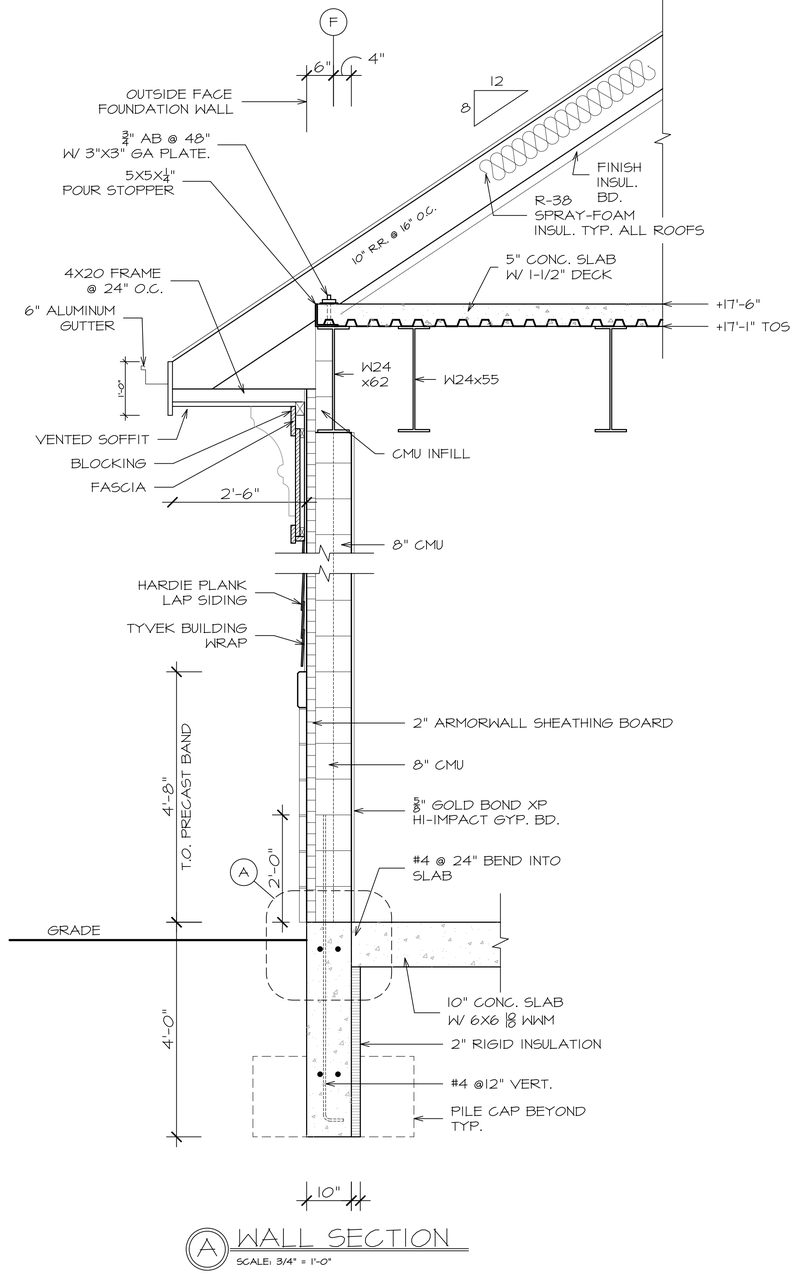
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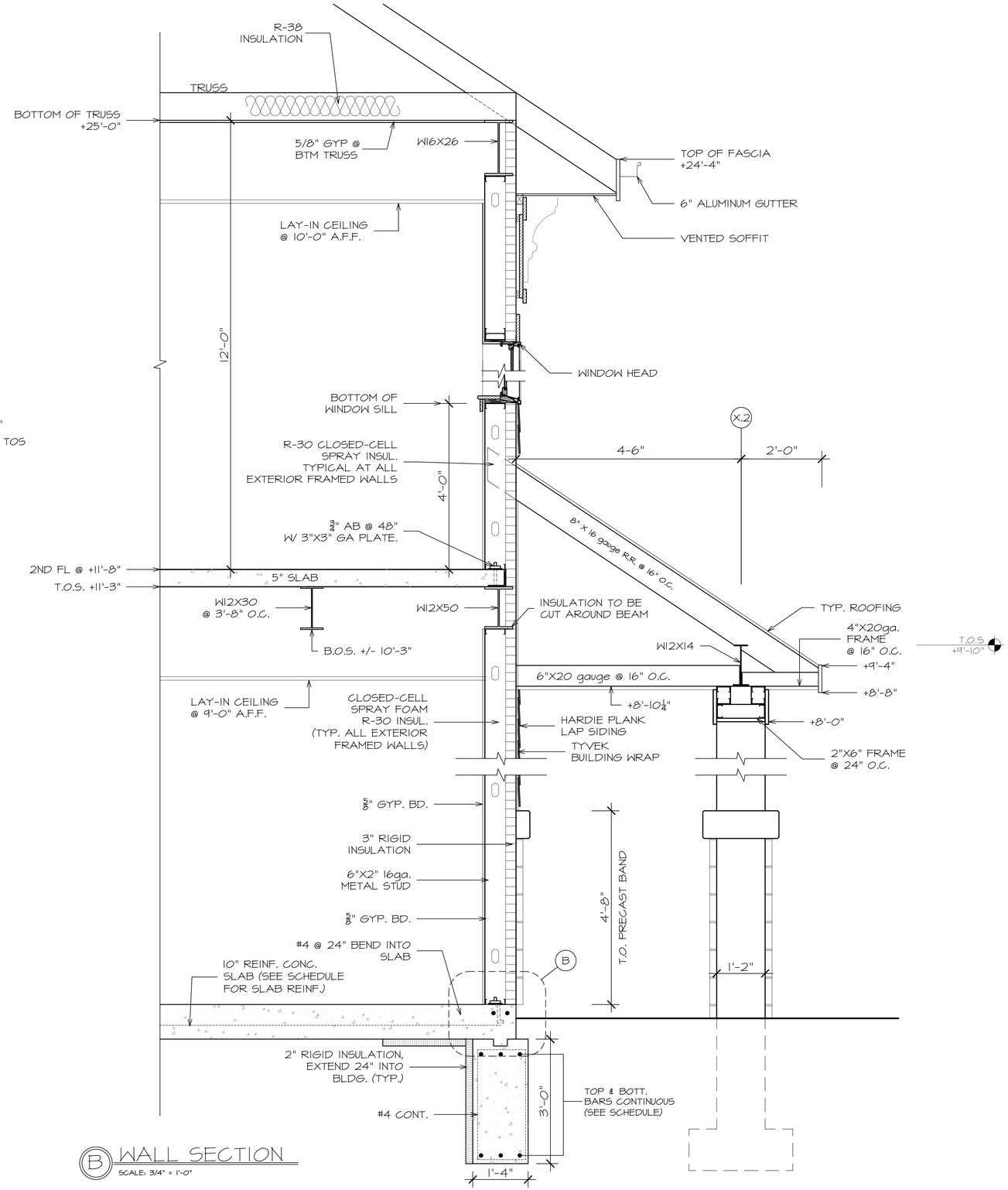
DRAWING#:

A-5.3



A WALL SECTION

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



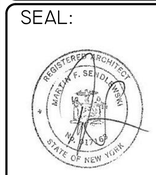
B WALL SECTION

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

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WALL SECTION & DETAIL

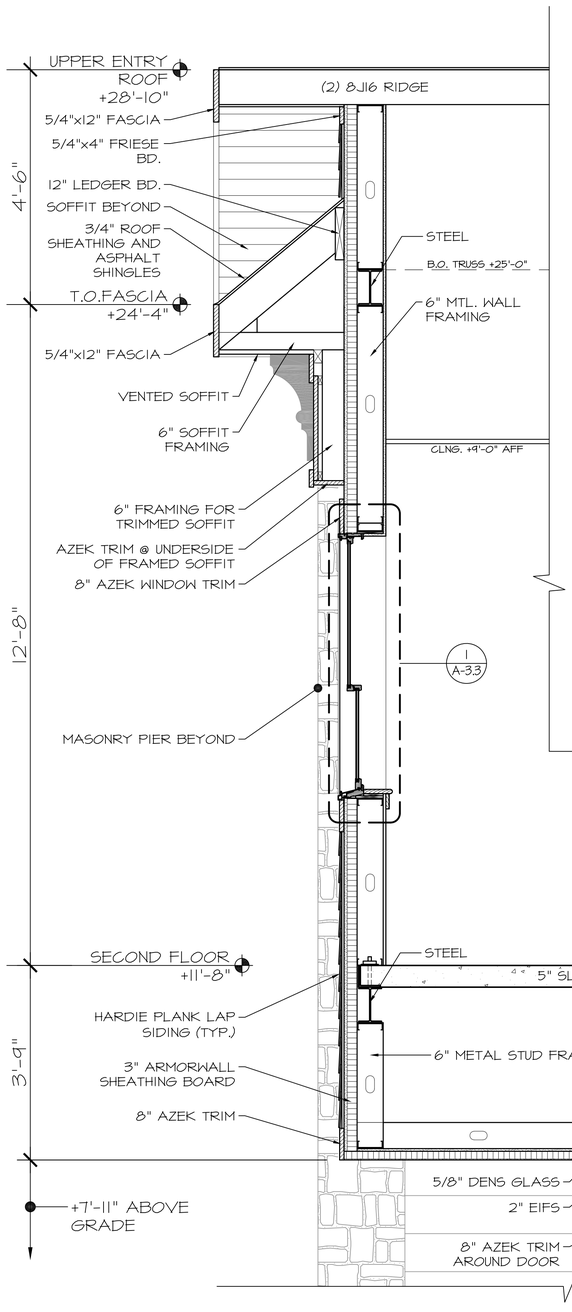
PROJECT #: 2108.01A

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CAD FILE: 2108.01A/P:/BID

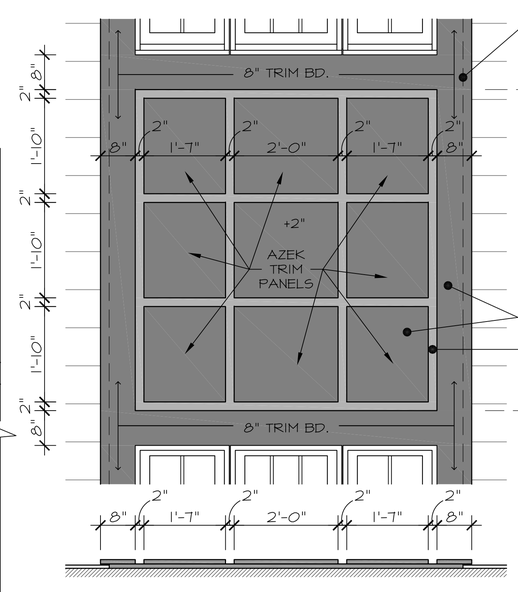
DRAWING#:

A-6.1



A WALL SECTION THRU DUTCH GABLE

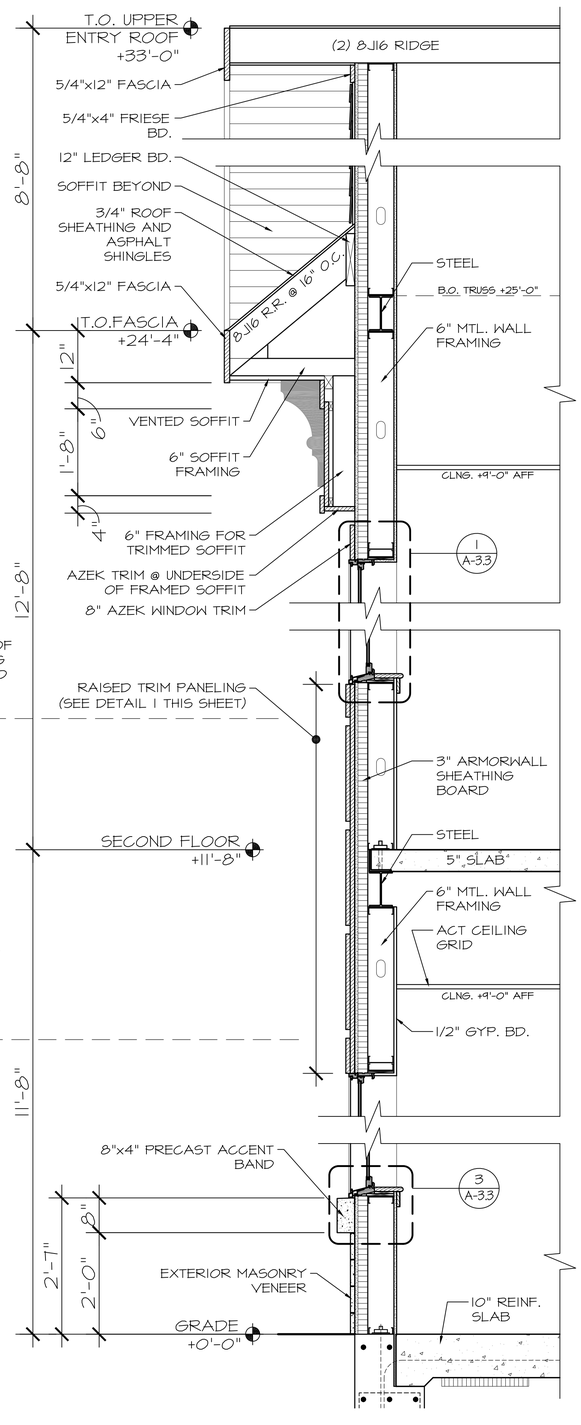
SCALE: 3/4" = 1'-0"



1 RAISED PANEL DETAIL

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

NOTE: DATUM OF RELIEF ELEVATIONS IS +0'-0" FROM WALL SHEATHING.



B WALL SECTION THRU DUTCH GABLE

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

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WALL SECTION & DETAIL

PROJECT #: 2108.01A

DRAWN BY:

CAD FILE: 2108.01A/P./BID

DRAWING#:

A-6.2

DOOR SCHEDULE

DOOR INFORMATION			SIZE			MATERIAL		FINISH		DETAILS		FRAME TYPE	HARDWARE GROUP	RATING	REMARKS
NO.	QTY.	TYPE	WITH	HEIGHT	THK	DOOR	FRAME	DOOR	FRAME	HEAD	JAMB			LABEL DR. FRAME	
1-01.1A	1	-	3'-8"	7'-0"	1-3/4"	ALUM/GL	ALUM.	-	-	-	-	-	1	B	MANUFACTURER: KAWNEER
1-01.2A	1	-	3'-8"	7'-0"	1-3/4"	ALUM/GL	ALUM.	-	-	-	-	-	1	B	MANUFACTURER: KAWNEER
1-01.1B	1	-	3'-8"	7'-0"	1-3/4"	ALUM/GL	ALUM.	-	-	-	-	-	1	B	MANUFACTURER: KAWNEER
1-01.2B	1	-	3'-8"	7'-0"	1-3/4"	ALUM/GL	ALUM.	-	-	-	-	-	1	B	MANUFACTURER: KAWNEER
102	1	-	3'-0"	7'-0"	1-3/4"	ALUM/GL	ALUM.	-	-	-	-	-	1	B	MANUFACTURER: KAWNEER
1-03	1	-	3'-8"	7'-0"	1-3/4"	ALUM/GL	ALUM.	-	-	-	-	-	1	B	MANUFACTURER: KAWNEER
1-04	1	B	3'-8"	7'-0"	1-3/4"	HM	HM	PT	PT	1	2	2	2	B	
1-05	1	B	3'-8"	7'-0"	1-3/4"	HM	HM	PT	PT	1	2	2	2	B	
1-06	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	1	2	2	2	B	
1-07	1	D	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
1-08	1	D	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
1-09	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	2	B	
1-10	1	D	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
1-11	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	4	B	
1-12	1	D	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
1-13	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	4	B	
1-14	1	B	3'-8"	7'-0"	1-3/4"	HM	HM	PT	PT	3	4	1	1	B	
1-15	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	3	B	
1-16	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	3	B	
1-17	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	6.1	6.2	1	1	B	
1-18	1	C	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	3	4	1	3	B	
1-19	1	C	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	-	-	-	-	B	SURFACE MT. SLIDING DOOR
1-20	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	3	4	1	3	B	
2-01	1	D	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
2-02	1	D	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
2-03	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	4	B	
2-04	1	D	3'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
2-05	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	4	B	
2-06	1	D	3'-8"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
2-07	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	2	B	
2-08	1	B	3'-8"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	2	B	
2-09	1	C	2'-0"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	
2-10	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	5	1	2	B	
2-11	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	7.1	7.2	1	2	B	
2-12	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	7.1	7.2	1	2	B	
2-13	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	3	4	1	2	B	
2-14	1	C	2'-6"	7'-0"	1-3/4"	OAK	HM	PT	PT	5	5	1	3	B	

HARDWARE GROUP 1

QTY	TYPE	MFG	DESCRIPTION	FIN.
3	HINGES	KAWNEER	4.5 X 4.0	S.S.
1	RIM PANICS	DORMA	9700	689 ALUM
1	CLOSERS	LCN	2030	N/A
1	ELECTRIC STRIKES	HES	7000	US26P
1	SADDLES	KAWNEER	STANDARD	MILL
1	TRIM	DORMA	2P03	689 ALUM
1	WEATHERSTRIP	KAWNEER	STANDARD	N/A
1	FACE PLATE	NES	7895	US26P

HARDWARE GROUP 2

QTY	TYPE	MFG	DESCRIPTION	FIN.
3	HINGES	PBB	BB81 4.5 X 4.5 NRP	26D
1	RIM PANICS	DORMA	F9300 X YR08	32D
1	CLOSERS	PDQ	5100 BC DS	689
1	ELECTRIC STRIKES	HES	9500 LBM	32D
1	MALL STOPS (WHERE REQ'D)	RKWD	406	32D
1	SADDLE	REESE	S284D(WIDTH PER DOOR)	AL
1	KICK PLATES	REESE	M35A(WIDTH PER DOOR)	AL
1	KICK PLATES	REESE	B07A(WIDTH PER DOOR)	AL

HARDWARE GROUP 3

QTY	TYPE	MFG	DESCRIPTION	FIN.
3	HINGES	PBB	BB81 4.5 X 4.5(27- NRP)	26D
1	STOREROOM LOCKS	PDQ	GT 115 PHL	26D
1	CLOSERS	PDQ	5100 BC PA	689
1	ELECTRIC STRIKES	HES	9500 LBM	32D
1	WALL STOPS	RKWD	406(WHERE REQ'D)	32D
1	KICK PLATES	RKWD	12 X 34	32D

HARDWARE GROUP 4

QTY	TYPE	MFG	DESCRIPTION	FIN.
3	HINGES	PBB	BB81 4.5 X 4.5 NRP	26D
1	PRIVACY LOCK	PDQ	GT 115 PHL	26D
1	WALL STOP	RKWD	406	32D
1	CLOSER	PDQ	5100 BC PA	32D

NOTE:
GC PROVIDES & INSTALLS ALL ELECTRIC STRIKE HARDWARE & SHALL COORDINATE THESE INSTALLS WITH THE ELECTRICIAN (FOR WIRING) AS WELL AS OWNERS ACCESS VENDOR (TBD)

DOOR 1-02 HARDWARE TO BE "SCHLAGE DE575 PLY 626 ELA" KEYPAD LEVER WITH PLYMOUTH TRIM, ELAN LEVER & AUTO LOCK

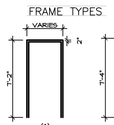
DOOR 1-02 HARDWARE TO BE "SCHLAGE DE575 PLY 626 ELA" KEYPAD LEVER WITH PLYMOUTH TRIM, ELAN LEVER & AUTO LOCK

DOOR 1-09 ACCESS CONTROL STRIKE TO BE FOR CONTROLLED ACCESS FROM DELIVERY ROOM INTO HALLWAY

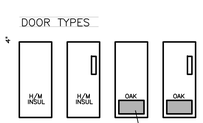
DOOR/HARDWARE NOTES:

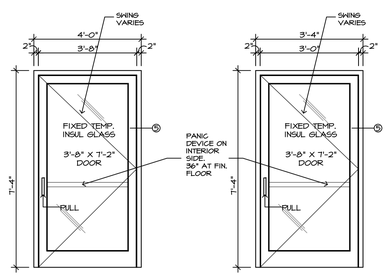
1. ALL DOOR FRAMES AT MASONRY WALLS SHALL HAVE 4" HEAD (TYPE 3)
2. ALL DOOR FRAMES TO BE PRE-CUT TO ALLOW FOR ELEC. DOOR STRIKE HARDWARE. PROVIDE SS FINISH PLATE FOR ANY LOCATIONS THAT DO NOT GET ELEC. STRIKE.
3. ALL DOORS TO BE B-LABEL RATED UNLESS OTHERWISE NOTED ON SCHEDULE
4. DOORS WITH GLASS EXCEEDING 100 SQ. INCH SHALL BE FIRE RATED GLASS (TYP.)
5. GC SHALL CONFIRM ALL DOOR & HARDWARE SCHEDULES WITH ARCHITECT PRIOR TO PURCHASE.
6. GC SHALL FIELD REVIEW & CONFIRM ALL DOOR LOCATIONS THAT ARE TO RECEIVE ELECTRIC STRIKES WITH ELECTRICIAN FOR WIRING COORDINATION.
7. GC SHALL CONFIRM KEYING SCHEDULE (TWO KEYING OPTIONS MINIMUM) WITH OWNER.
8. PRESENT ANY CONFLICTS TO ARCHITECT IN WRITING.

FRAME TYPES



DOOR TYPES

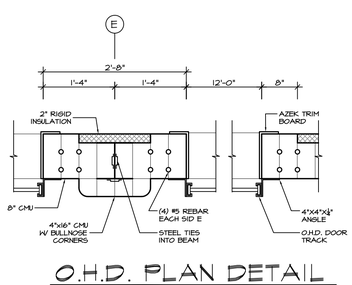




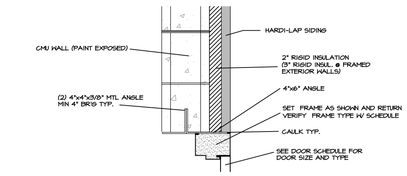
KAWNEER DOORS
SCALE: 3/8" = 1'-0" (DOORS: 101.1A - 101.2B)

KAWNEER DOORS
SCALE: 3/8" = 1'-0" (DOORS: 102 - 103)

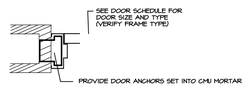
NOTE:
KAWNEER ALUM/GLASS DOORS SHALL BE MODEL 350T INSULFOUR, FINISH: 'CLEAR' ANODIZED ALUMINUM. COORDINATE INSTALLATION DETAILS INTO EXTERIOR FRAMED WALLS WITH MANUFACTURER SPECS.



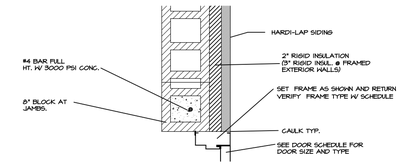
O.H.D. PLAN DETAIL
SCALE: 3/4" = 1'-0"



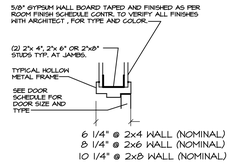
1 HEAD DETAIL AT EXT. DR. (CMU)



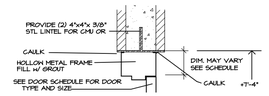
4 JAMB DETAIL AT CMU



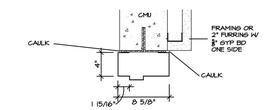
2 JAMB DETAIL AT EXT. DR.



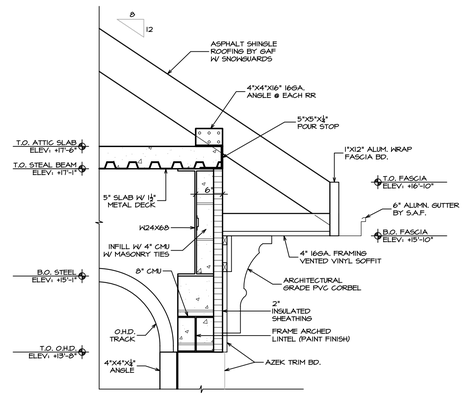
5 TYP. HEAD/ JAMB DETAIL (FRAMED WALL)



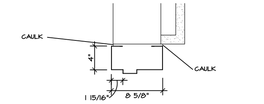
3 TYP. HEAD DETAIL INTERIOR MASONRY WALL



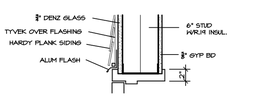
6.1 TYP. HEAD DETAIL INTERIOR MASONRY/ FRAME WALL



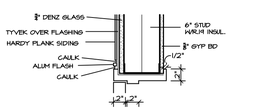
O.H.D. ELEVATION
SCALE: 3/4" = 1'-0"



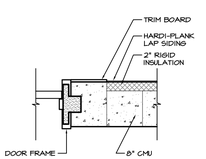
6.2 TYP. JAMB DETAIL INTERIOR MASONRY/FRAME WALL



7.1 HEAD DETAIL EXTERIOR FRAMED WALL



7.2 JAMB DETAIL EXTERIOR FRAMED WALL



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

DATE: ISSUE

07-20-2022 ISSUED FOR BID & PERMIT

10-14-2022 REVISED FOR CONSTRUCTION

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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
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TAPPAN, NY 10983

DOOR/ HARDWARE SCHEDULE & DETAILS

PROJECT #: 2108.01A

DRAWN BY:

CAD FILE: 2108.01A/P:/BID

DRAWING#:

A-7

FINISH SCHEDULE

ROOM	NAME	FLOOR		BASE		WALLS		CEILING			MISC.	KEY NOTES
		MATERIAL	FINISH	MATERIAL	HEIGHT	MATERIAL	FINISH	TYPE	FINISH	HEIGHT		
101.1	NORTH CORRIDOR	CONC.	DQ	DQ	6"	GB	PT	ACT	1	8'-0"	* INCL. HIGH-IMPACT GYP. BD @ WALLS UP TO 48"	8,
101.2	EAST CORRIDOR	CONC.	DQ	DQ	6"	GB	PT	ACT	1	8'-0"	* INCL. HIGH-IMPACT GYP. BD @ WALLS UP TO 48"	8,
102	COMPUTER & RADIO ROOM	CONC.	DQ	DQ	6"	GB	PT	ACT	1	9'-0"		
103	CHIEF OFFICE	CONC.	DQ	DQ	6"	GB	PT	ACT	1	9'-0"		
104	STAIR A	CONC.	RT	VB	6"	GB	PT	GB	PT	VARIES	* INCL. VCT FLOOR AT STAIR LANDINGS	2, 3
105	DELIVERY	CONC.	DQ	DQ	6"	GB	PT	ACT	1	9'-0"	* INCL. HIGH-IMPACT GYP. BD @ WALLS UP TO 48"	
106	OFFICERS	CONC.	DQ	DQ	6"	GB	PT	ACT	1	9'-0"		
107	RESTROOM #1	CONC.	DQ	DQ	6"	CT/GB	PT	ACT	2	8'-0"	* INCL. FULL HT. TILE @ SHOWER STALL	1, 5, 6
108	RESTROOM #2	CONC.	DQ	DQ	6"	CT/GB	PT	ACT	2	8'-0"	* INCL. FULL HT. TILE @ SHOWER STALL	1, 5, 6
109	ASSOCIATION	CONC.	DQ	DQ	6"	GB	PT	ACT	1	9'-0"		
110	READY ROOM	CONC.	DQ	DQ	6"	GB	PT	ACT	1	9'-0"	* INCL. WAINSCOT @ ALL WALLS (SEE DET. 'A')	1, 9
111	STAIR B	CONC.	RT	VB	6"	GB	PT	GB	PT	VARIES	* INCL. VCT FLOOR AT STAIR LANDINGS	2, 3, 10
112	GEAR AREA	CONC.	DQ	DQ	6"	CMU	PT	STEEL	PT	11'-3"	* PAINT EXPOSED CLNG/DECK/STEEL/ETC.	
113	WORK AREA	CONC.	DQ	DQ	6"	CMU	PT	STEEL	PT	-	* PAINT EXPOSED CLNG/DECK/STEEL/ETC.	
114	APPARATUS BAY	CONC.	DQ	DQ	6"	CMU	PT	STEEL	PT	-	* PAINT EXPOSED CLNG/DECK/STEEL/ETC.	
115	JANITOR CLOSET	CONC.	DQ	DQ	6"	CMU	PT	GB	PT	8'-0"	* PROVIDE/INSTALL FRP WALL FINISH @ FRAMED WALLS	1, 5, 6
116	CLOSET	CONC.	DQ	DQ	6"	CMU	PT	STEEL	PT	11'-3"		
201	CORRIDOR	CONC.	VLT	VB	4"	GB	PT	ACT	1	8'-0"	* INCL. HIGH-IMPACT GYP. BD @ WALLS UP TO 48"	4, 8
202	B.O.F.C. OFFICE	CONC.	CPT	VB	4"	GB	PT	ACT	1	9'-0"		
203.1	SECRETARY/TREAS.	CONC.	CPT	VB	4"	GB	PT	ACT	1	9'-0"		
203.2	FILES	CONC.	VCT	VB	4"	GB	PT	ACT	1	9'-0"		4, VCT
204	STAIR A	CONC.	RT	VB	4"	GB	PT	GB	PT	VARIES	* INCL. VCT FLOOR AT STAIR LANDINGS	2, 3, 10
205	IT CLOSET	CONC.	VCT	VB	4"	GB	PT	GB	PT	6'-8" (VIF)		10
206	RESTROOM #3	CONC.	CT	CT	4"	CT/GB	48"/PT	ACT	2	8'-0"	* WALL TILE UP TO 48" AFF W/ BULLNOSE CAP	1, 5, 6
207	RESTROOM #4	CONC.	CT	CT	4"	CT/GB	48"/PT	ACT	2	8'-0"	* WALL TILE UP TO 48" AFF W/ BULLNOSE CAP	1, 5, 6
208	OFFICE / FILE STORAGE	CONC.	CPT	VB	4"	GB	PT	ACT	1	9'-0"		
209	MEETING ROOM	CONC.	CPT	VB	4"	GB	PT	ACT	1	10'-0"	* INCL. WAINSCOT @ ALL WALLS (SEE DET. 'A')	9,
210	AV/ST	CONC.	CPT	VB	4"	GB	PT	ACT	1	10'-0"		
211	STAIR B	CONC.	RT	VB	4"	GB	PT	GB	PT	VARIES	* INCL. VCT FLOOR AT STAIR LANDINGS	2, 3, 10
212	UNIFORM STORAGE	CONC.	UNFINISHED	-	-	GB	UNFINISHED	GB	UNFINISHED	9'-0"	*TAPE/SPACKLE JOINTS @ ALL UNFINISHED GYP. BD. LOCATIONS	
213	LOWER ATTIC	CONC.	UNFINISHED	-	-	GB	UNFINISHED	GB	UNFINISHED	9'-0"	*TAPE/SPACKLE JOINTS @ ALL UNFINISHED GYP. BD. LOCATIONS	
214	UPPER ATTIC	CONC.	UNFINISHED	-	-	GB	UNFINISHED	GB	UNFINISHED	8'-0"	*TAPE/SPACKLE JOINTS @ ALL UNFINISHED GYP. BD. LOCATIONS	

GENERAL NOTES:

1. ALL FLOOR FINISHES SPECIFIED SHALL BE SUBSTITUTED WITH AN OWNER/ARCHITECT APPROVED EQUAL IN THE EVENT THE ORIGINAL MAKE/MODEL SPECIFIED IS DISCONTINUED.
2. ALL INTERIOR SIGNAGE SHALL BE PROVIDED BY OWNER & INSTALLED WHERE DIRECTED BY GC.
3. ALL STAIRS SHALL GET RUBBER TREADS TYPICAL (COLOR BY OWNER). VCT FINISH AT LANDINGS TYPICAL.
4. GC SHALL SUPPLY ATTIC STOCK (200 S.F. MIN) FOR ALL MODULAR FLOOR FINISHES (TILE/CARPET TILE/ETC.) FOR OWNER FUTURE USE.
5. REFER TO DRAWING A-9.1 FOR LAY-IN CEILING TYPES SPECIFICATION.

TILE NOTES:

1. ALL TILE TO BE BY DALTILE, REFER TO DWG. A-8.2 TILE SCHEDULE FOR MODELS/SIZES/ETC.
2. WALL TILE AT SHOWER LOCATIONS TO BEFULL HEIGHT, AS SPECIFIED ON DRAWING A-8.2 SCHEDULE.
3. WALL TILE AT READY ROOM KITCHENETTE LOCATIONS (SHOWN ON A-8.3) SHALL BE DALTILE 'VITRUVIAN, COLOR "WHITE GLOSSY VV10" OR EQUAL.

PAINTING NOTES:

1. GC SHALL PROVIDE A FULL MOCK-UP PANEL CONSISTING OF ALL OWNER SELECTED PAINT FINISHES, FOR APPROVAL, PRIOR TO COMMENCEMENT OF ANY PAINTING.
2. GC SHALL ENSURE THAT ALL CMU TO RECEIVED PAINT FINISH IS PROPERLY BRUSHED & PREPARED PRIOR TO PAINTING.
3. ALL PAINTED CMU SHALL RECEIVE BLOCK-FILLER BASE PAINT AS PREPARATION TO PAINTING.
4. ALL AREAS TO RECEIVE FINISH PAINT SHALL NOT GET ITS FINAL COAT UNTIL THE END OF THE PROJECT PUNCH-LIST PHASE, AND ONLY WHEN ALL OTHER TRADES/VENDORS HAVE BEEN CONFIRMED TO BE COMPLETED WITH THEIR WORK IN ALL AREAS.

LEGEND:

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	OAK	3/4" THK #1 OAK or WAINSCOT
AFF	ABOVE FINISHED FLOOR	PLYWD	3/4" CDX BACKING
BRCK	BRICK	PT	PAINT
CM	CROWN MOULDING (PRECAST)	RT	ROPPE RUBBER TREAD DIAMOND DESIGN
CMU	CONCRETE BLOCK	SPF	SPRAY FIREPROOFING, MASK WALLS TO AVOID OVER SPRAY
CONC	CONCRETE	TERR	TERRAZZO
CPT	CARPET TILE	VB	4" HIGH ROPPE VINYL BASE. USE FORMED CORNERS
CR	OAK CHAIR RAIL	VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE (NUMBER DENOTES TYPE)	VIF	VERIFY IN FIELD (FIELD CONFIRM)
EPOX	EPOXY PAINT	VLT	VINYL LAMINATE TILE
DQ	DURAQUARTZ EPOXY FLOOR & BASE FINISH	VT	VINYL TREAD
FL	FLOOR	VWC	VINYL WALL COVERING
FRP	FIRE RESISTANT PANEL	WD	WOOD
FT	FLOOR TILE		
GB	GYPSUM BOARD		
N/A or ——	NOT APPLICABLE		

KEY NOTES:

(1) BULLNOSE EDGE OF WALL TILE AT TRANSITION BETWEEN WALL TILE & GYPSUM BOARD.

(2) PROVIDE RUBBER STAIR TREADS. PAINT STRINGERS AND RISERS TYPICAL

(3) GYP. BD. BOTTOM OF STAIR AND LANDINGS ABOVE TYPICAL W/ SUPPLEMENTAL FRAMING AS REQUIRED. J-BEAD ALL EDGES.

(4) VINYL LAMINATE TILE FLOORING SHALL BE ARMSTRONG REJUVENATIONS "TIMBERLINE" OR EQUAL. COLOR BY OWNER.

(5) ALL GYP. BD. TO BE WATER RESISTANT TYPE, TYP. ALL AREAS.

(6) PROVIDE DUROCK WALLBOARD AT ALL WALL TILE AREAS TYP.

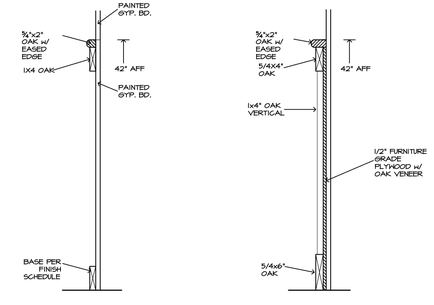
(8) PROVIDE WHITE OAK CHAIR RAIL (W/ STAIN FINISH) AT 42" AFF. PAINT ABOVE/BELOW CHAIR RAIL, PAINT COLOR SELECTED BY OWNER. REF. DETAILS 'A' THIS DRAWING.

(9) PROVIDE WHITE OAK WAINSCOT (W/ STAIN FINISH) AT 42" AFF. PAINT WALL ABOVE, PAINT COLOR SELECTED BY OWNER. REF. DETAILS 'A' THIS DRAWING.

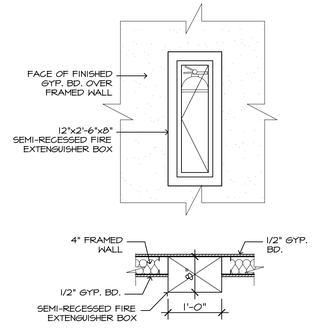
(10) VCT SHALL BE ARMSTRONG 'STANDARD EXCELON IMPERIAL' TEXTURE, OR EQUAL. COLOR TO BE SELECTED BY OWNER.

GENERAL FINISH NOTES:

1. ALL DOOR FRAMES, TRIMS, SOFFITS, RAILINGS, EXPOSED STL. LINTELS, ETC. TO HAVE PAINT FINISH TYPICAL.
2. ALL INTERIOR WOOD DOORS, TRIM, MOLDING, BASEBOARD TO HAVE STAIN/VARNISH FINISH.
3. KITCHENETTE WALLS AT READY ROOM TO HAVE GLAZED FINISH CERAMIC TILE AS SHOWN ON DRAWING A-8.3. TILE TO BE DALTILE 'VITRUVIAN', COLOR "WHITE GLOSSY VV10".
4. CARPET TILE TO BE MOHAWK "MINDFUL STRIPE - BT447", COLOR BY OWNER.
5. PARTIAL SOFFIT CEILINGS SHALL BE ON METAL SUSPENSION SYSTEMS W/ PAINT FINISH, TYPICAL ALL SOFFIT LOCATIONS.
6. PROVIDE STAINLESS FLOOR SADDLE AT TRANSITIONS BETWEEN DIFFERING FLOOR SURFACES. RESTROOMS SHALL GET SET MARBLE SADDLE BETWEEN RESTROOM & CORRIDOR FLOOR FINISH (2ND FLOOR)
7. FIELD VERIFY FINAL CLEAR DIMENSIONS FOR ALL BUILT-INS, CASEWORK & CUSTOM VANITIES PRIOR TO ORDER/INSTALL.



A WAINSCOT/CHAIR-RAIL DETAILS
SCALE: 1" = 1'-0"



C FIRE EXT DETAIL
SCALE: 3/4" = 1'-0"

NOTE:
CONTRACTOR TO PROVIDE & INSTALL UP TO TEN (10) RECESSED F.E. CABINETS (OR SURFACE MTD. WHERE APPLICABLE). VERIFY LOCATIONS W/ ARCHITECT PRIOR TO INSTALL.
(FIRE EXTINGUISHERS ARE BY OWNER)

DATE: ISSUE

07-20-2022 ISSUED FOR BID & PERMIT

SEAL:

REGISTERED ARCHITECT MARTIN F. SENDLEWSKI NEW YORK STATE OF NEW YORK

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ROOM FINISH SCHEDULE & NOTES

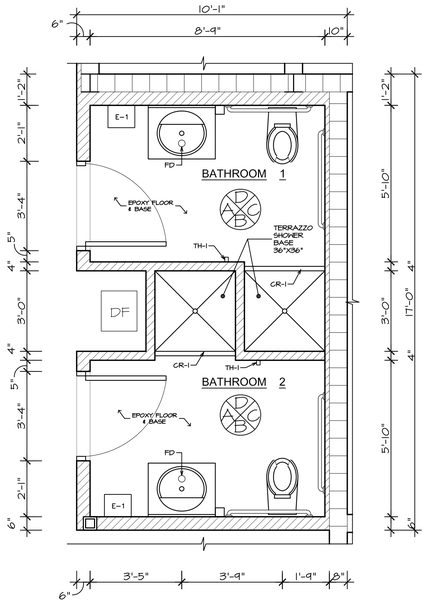
PROJECT #: 2108.01A

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CAD FILE: 2108.01A/P./BID

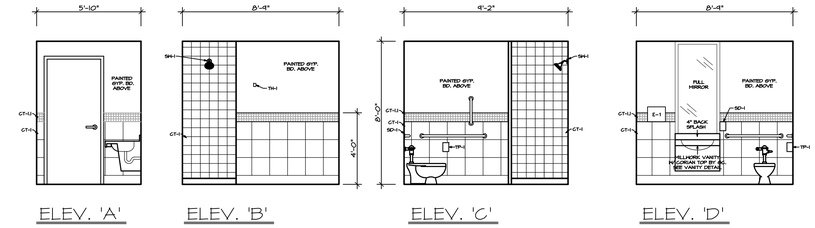
DRAWING#:

A-8.1



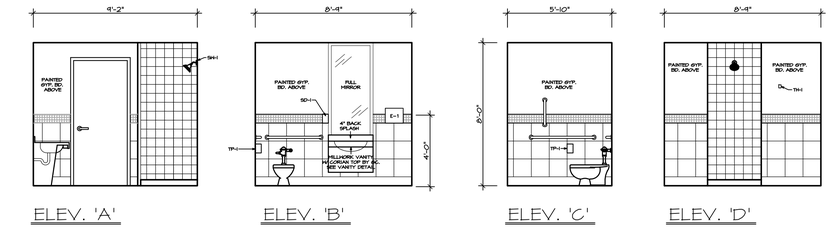
FIRST FLOOR BATHROOMS

SCALE: 3/8" = 1'-0"



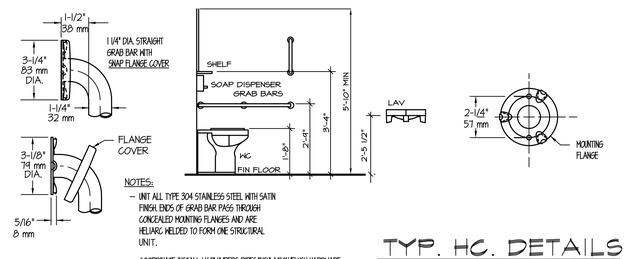
1 BATHROOM

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



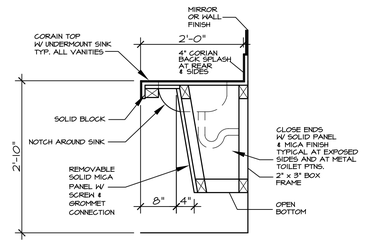
2 BATHROOM

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



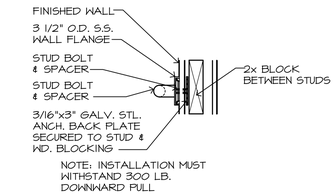
TYP. HC. DETAILS

SCALE: N.T.S.



VANITY DETAIL

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



TYP. GRAB BAR ANCHOR

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

BATHROOM TILE LENGEND				
TILE REF.	SERIES	COLOR	SIZE	NOTE
CT-1	DALTILE SANDALO	SERENE WHITE SW90	12"X12" WALL TILE (6"X6" WALL TILE AT SHOWER)	
CT-1.1	DALTILE SANDALO	UNIVERSAL SW96	6" MOSAIC	
CT-2	DALTILE STRATFORD PLACE	TRUFFLE FIELD SD93	12"X12" WALL TILE (6"X6" WALL TILE AT SHOWER)	
CT-2.1	DALTILE STRATFORD PLACE	DORIAN GREY SD94	6" MOSAIC	

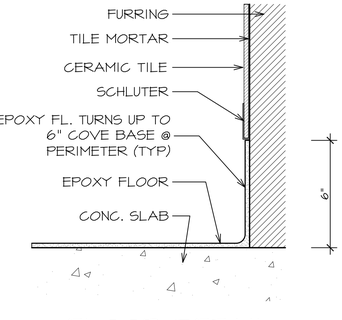
NOTES:

1. TILE SPEC/LAYOUT APPLIES TO ALL RESTROOMS.
2. WALL TILE AT READY ROOM KITCHENETTE SHALL BE DALTILE 'VITRUVIAN', COLOR "WHITE GLOSSY VV10".

BATHROOM ACCESSORY/EQUIPMENT LENGEND				
TILE REF.	MAKE	MODEL	COLOR/FINISH	NOTES
SD-1 (SOAP DISP.)	ASI	0362	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
TP-1 (TP DISP.)	ASI	0030/0031 (VERIFY)	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
TH-1 (TOWEL HOOK)	ASI	7301-S	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
CR-1 (CURTAIN ROD)	ASI	1204-2	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
HC-1 (GRAB BAR)	ASI	3700	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
CHT-1 (CHANGING TBL)	KOALA KARE	KB100-01ST	GREY	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
SW-1 (SHOWERHEAD)	KOH-LER	K-22167	CHROME	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
E-1 (ELEC. DRYER)	EXCEL	'XLERATOR'	XL-GR	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS

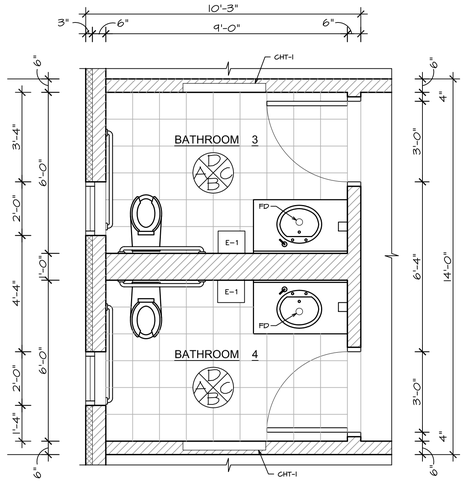
NOTES:

1. ALL HARDWARE SHALL MEET ADA REQ'MTS FOR MOUNTING HEIGHT.
2. GC SHALL PROVIDE WALL BLOCKING SUPPORT FOR ALL WALL MOUNTED EQUIPMENT, GRAB BARS, VANITIES, ETC.



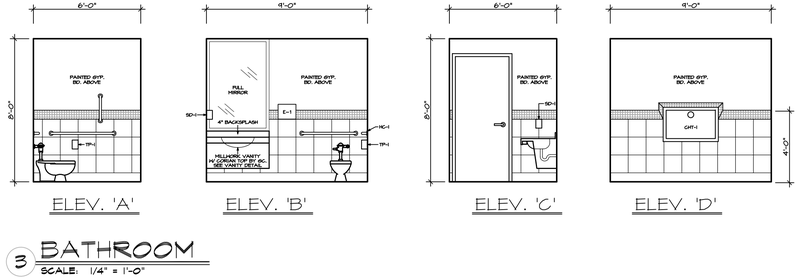
FLOOR DETAIL

SCALE: 3" = 1'-0"



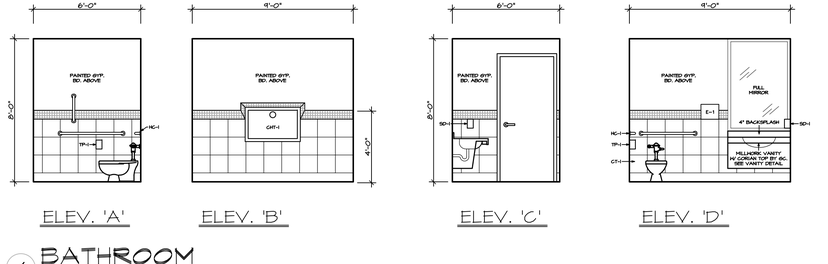
SECOND FLOOR BATHROOMS

SCALE: 3/8" = 1'-0"



3 BATHROOM

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



4 BATHROOM

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

DATE: ISSUE

01-20-2022 ISSUED FOR BID & PERMIT

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TAPPAN, NY 10983

RESTROOM PLANS, ELEVATIONS & DETAILS

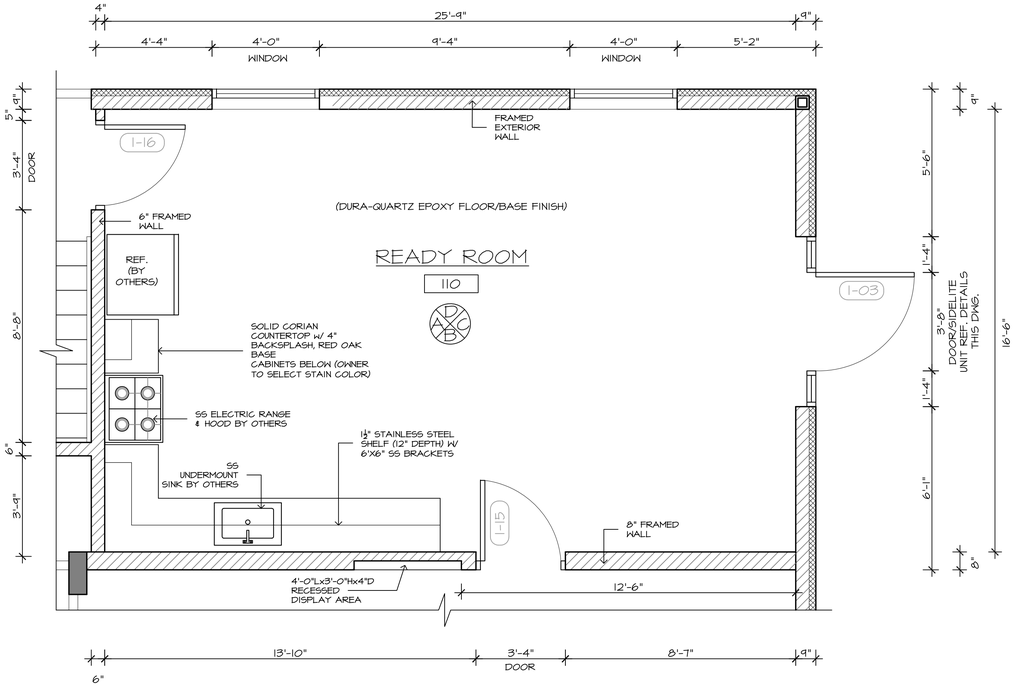
PROJECT #: 2108.01A

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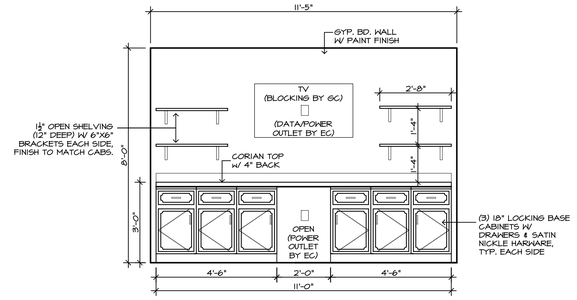
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A-8.2



1 READY ROOM PLAN

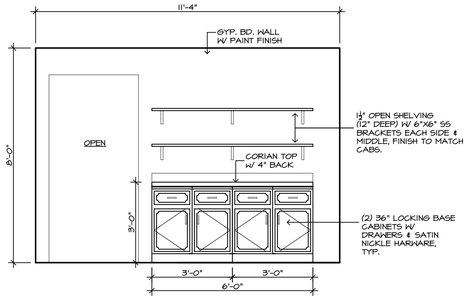
SCALE: 3/8" = 1'-0"



E CASEWORK DETAIL

SCALE: 3/8" = 1'-0"

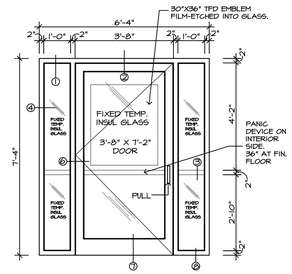
(REFER TO A-1.1 PLAN FOR LOCATION)



F CASEWORK DETAIL

SCALE: 3/8" = 1'-0"

(REFER TO A-1.2 PLAN FOR LOCATION)

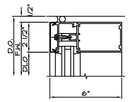


KAWNEER DOOR 1-03

SCALE: 3/8" = 1'-0"

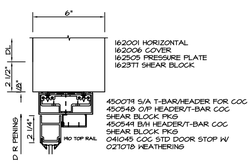
NOTE:

- KAWNEER ALUM/GLASS DOORS SHALL BE MODEL 350T INSULFOUR, FINISH: 'CLEAR' ANODIZED ALUMINUM.
- COORDINATE INSTALLATION INTO EXTERIOR FRAMED WALLS WITH MANUFACTURER SPECS & DETAILS BELOW.

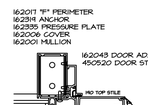


DETAIL JAMB 1" INFILL

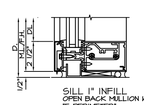
TUBE MULLION WITH PERIMETER PRESSURE PLATE



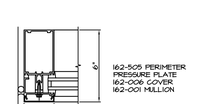
ENTRANCE DETAIL CONCEALED OVERHEAD CLOSER TRANSOM BAR (1" INFILL)





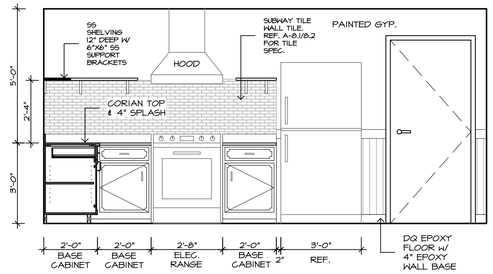


SILL 1" INFILL OPEN BACK MULLION WITH "F-PERIMETER"



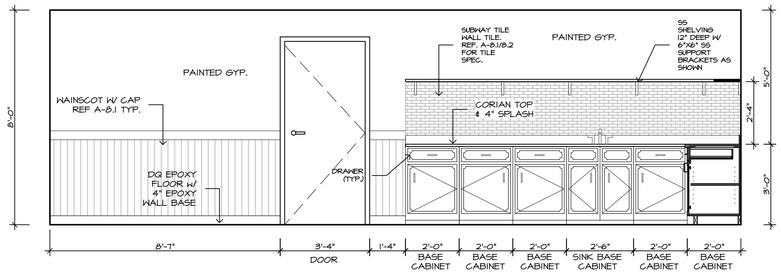
DETAIL JAMB 1" INFILL

TUBE MULLION WITH PERIMETER PRESSURE PLATE



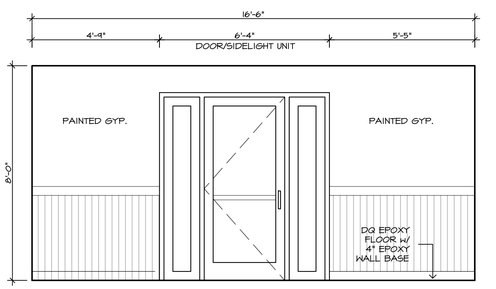
A ELEVATION

SCALE: 3/8" = 1'-0"



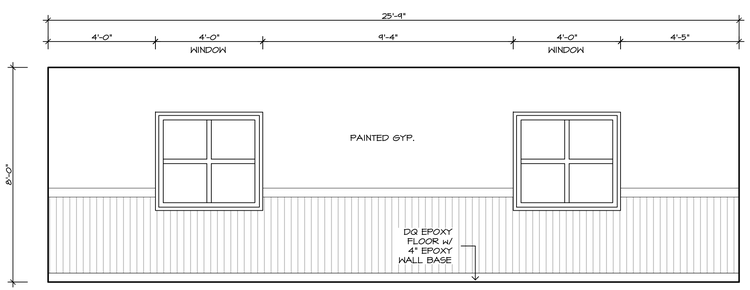
B ELEVATION

SCALE: 3/8" = 1'-0"



C ELEVATION

SCALE: 3/8" = 1'-0"



D ELEVATION

SCALE: 3/8" = 1'-0"

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KITCHEN/READY ROOM
PLAN & ELEVATIONS

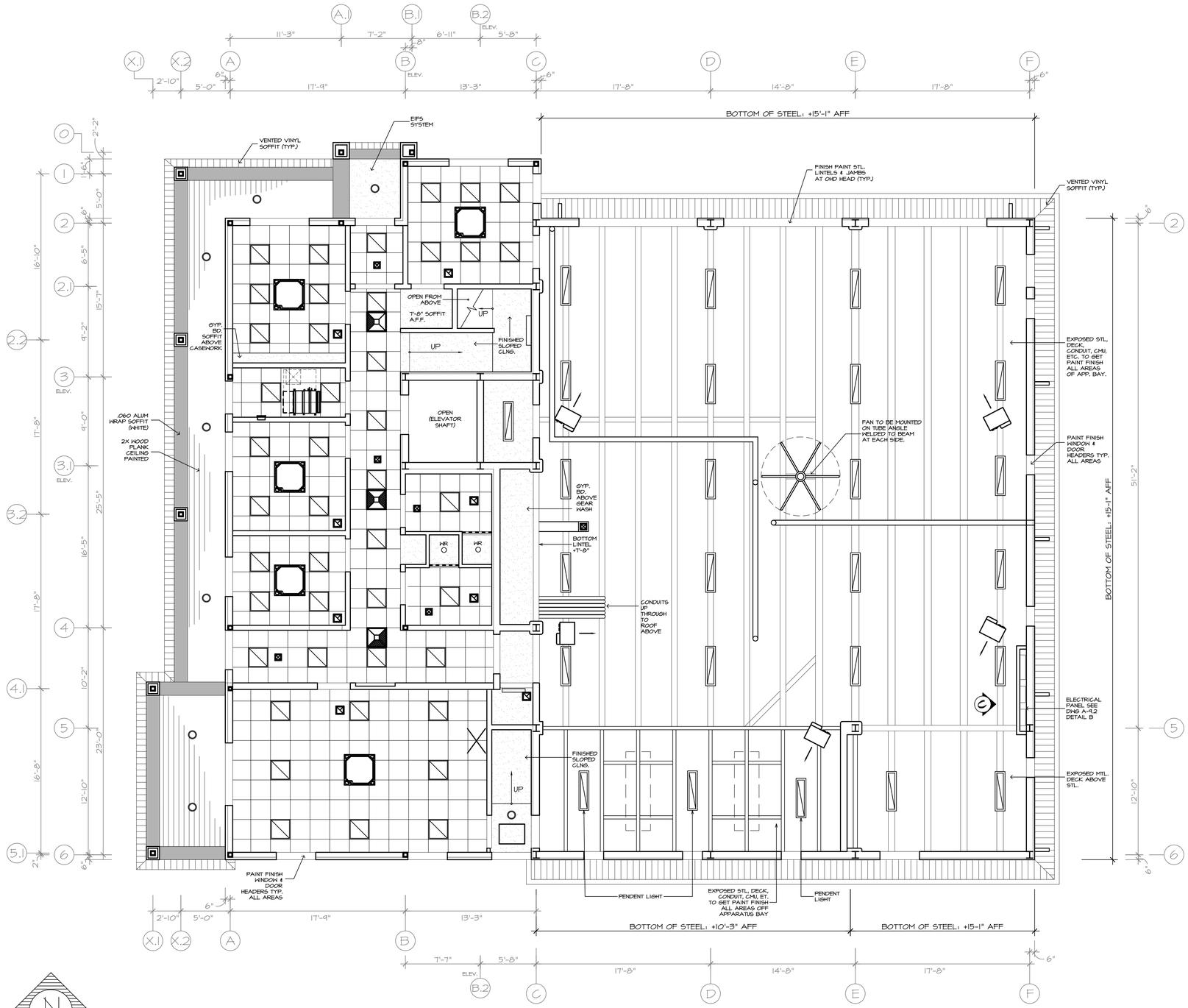
PROJECT #: 2108.01A

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A-8.3



CEILING LEGEND

- 2'-0" X 4'-0" LED FIXTURE (W/ DIMMABLE OPTION)
- 2'-0" X 2'-0" LED FIXTURE (W/ DIMMABLE OPTION)
- LED RECESSED HI-HAT
- SURFACE MTD. DECORATIVE LED EXTERIOR FIXTURE
- DECORATIVE PENDANT FIXTURE
- DECORATIVE WALL SCONCE
- SURFACE MTD. LIGHT, 12" DIA.
- LARGE VOLUME FAN
- MODINE UNIT HEATER
- CEILING FAN COIL UNIT
- HVAC SUPPLY AIR DIFFUSER
- HVAC SUPPLY AIR GRILLE
- HVAC RETURN AIR GRILLE
- SMOKE DETECTOR
- FIRE SPRINKLER HEAD
- GYP BD. CEILING/SOFFIT W/ PAINT FINISH (TYP)
- HATCH DEPICTS PAINTED GYP. BD. CLNG. FINISH (TYP.)
- CURTAIN ROD (TYP. @ SHOWER LOCATIONS)

CEILING NOTES:

1. GC SHALL COORDINATE ALL CEILING INSTALLATIONS WITH THE WORK OF OTHER TRADES, ARCHITECTURAL & ENGINEERING CEILING PLANS MAY VARY, THEREFORE IT SHALL BE THE RESPONSIBILITY OF THE GC TO REFER TO ALL ENGINEERING PLANS AS NEEDED FOR COORDINATION OF CEILING ITEMS.
2. REFER TO A-8.1 FINISH SCHEDULE FOR CEILING HEIGHTS & ADDT'L NOTES.
3. GC SHALL BE RESPONSIBLE FOR INSTALLED CEILING TILES/GRIDS FOR THE DURATION OF THE PROJECT IN COORDINATION WITH ALL ONGOING TRADES WORK. SHOULD TILES NEED TO BE REMOVED FOR CONTINUED TRADES WORK IT SHALL BE THE GC RESPONSIBILITY TO REMOVE & PROPERLY STORE TILES UNTIL OTHER TRADES WORK IS COMPLETE.
4. ANY REPLACEMENT OR TOUCH-UP OF DAMAGED CEILING AREAS SHALL BE COMPLETED BY THE GC AT THE END OF THE PUNCH-LIST PHASE AND ONLY WHEN ALL OTHER TRADES/VENDORS ARE COMPLETED WITH ABOVE CEILING WORK.
5. AREAS NOT SHOWN TO RECEIVE LAY-IN OR GYP. BD. CEILINGS SHALL GET PAINT FINISH TYPICAL.

CEILING TYPES:

1. TYPE (1) - ARMSTRONG 'CALLA' LAY-IN #2820 (2'X2'X1") IN WHITE W/ PRELUDE XL EXPOSED TEE, INTERMEDIATE DUTY 15/16" GRID IN 'BLIZZARD WHITE' FINISH.
2. TYPE (2) - ARMSTRONG FINE FISSURED UNPERFORATED 'CERAMAGUARD' #605 (2'X2'X5/8") IN WHITE W/ AL PRELUDE PLUS XL 15/16" GRID IN 'WHITE' FINISH.

FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"

NOTE:
1. COORDINATE ALL EXTERIOR BUILDING MOUNTED LIGHTING WITH SITE LIGHTING PLAN & ELECTRICAL PLANS. GC SHALL COORDINATE SURROUNDING CONSTRUCTION TO ACCOMMODATE FIXTURES AS NEEDED.

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REGISTERED ARCHITECT MARTIN F. SENDLEWSKI STATE OF NEW YORK

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FIRST FLOOR
REFLECTIVE CEILING PLAN

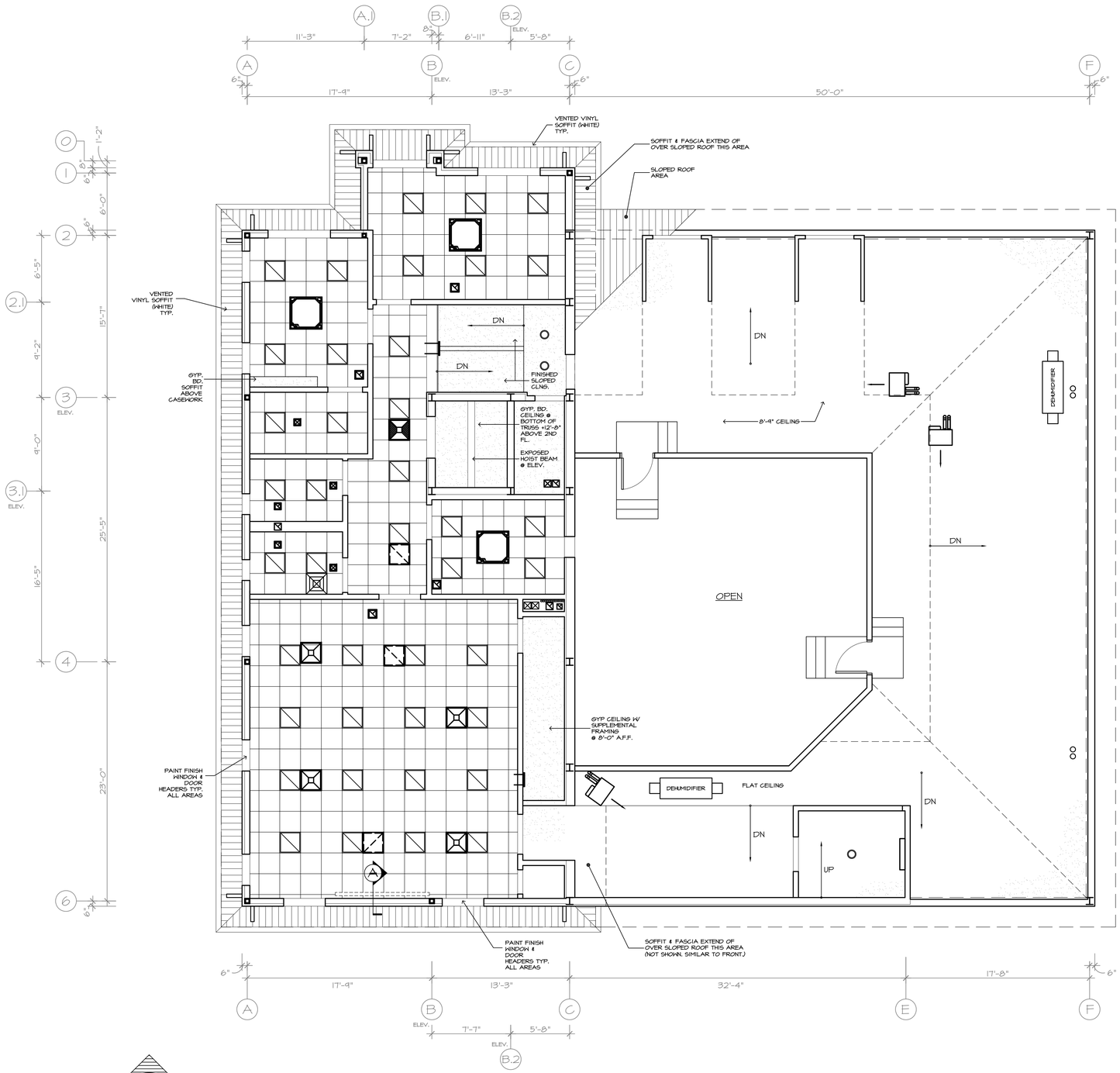
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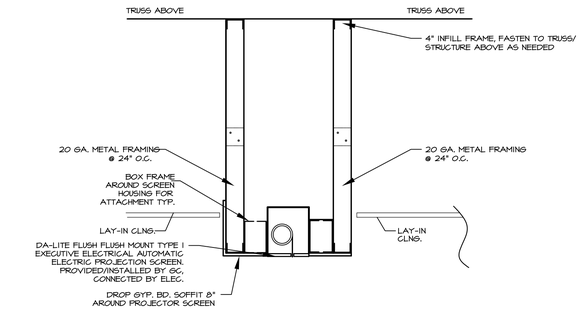
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A-9.1



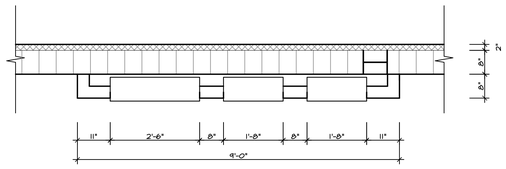
SECOND FLOOR REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"



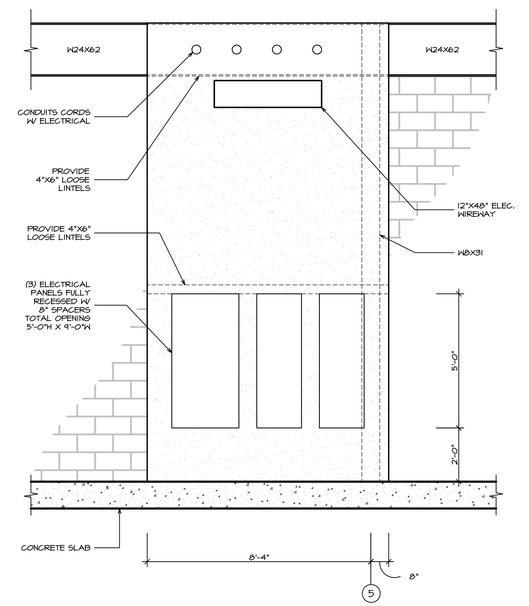
A RECESSED MOVIE SCREEN DETAIL

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



B ELECTRICAL PANEL PLAN VIEW

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



C ELECTRICAL PANEL ELEVATION

SCALE: 3/8" = 1'-0"

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SECOND FLOOR
REFLECTIVE CEILING PLAN

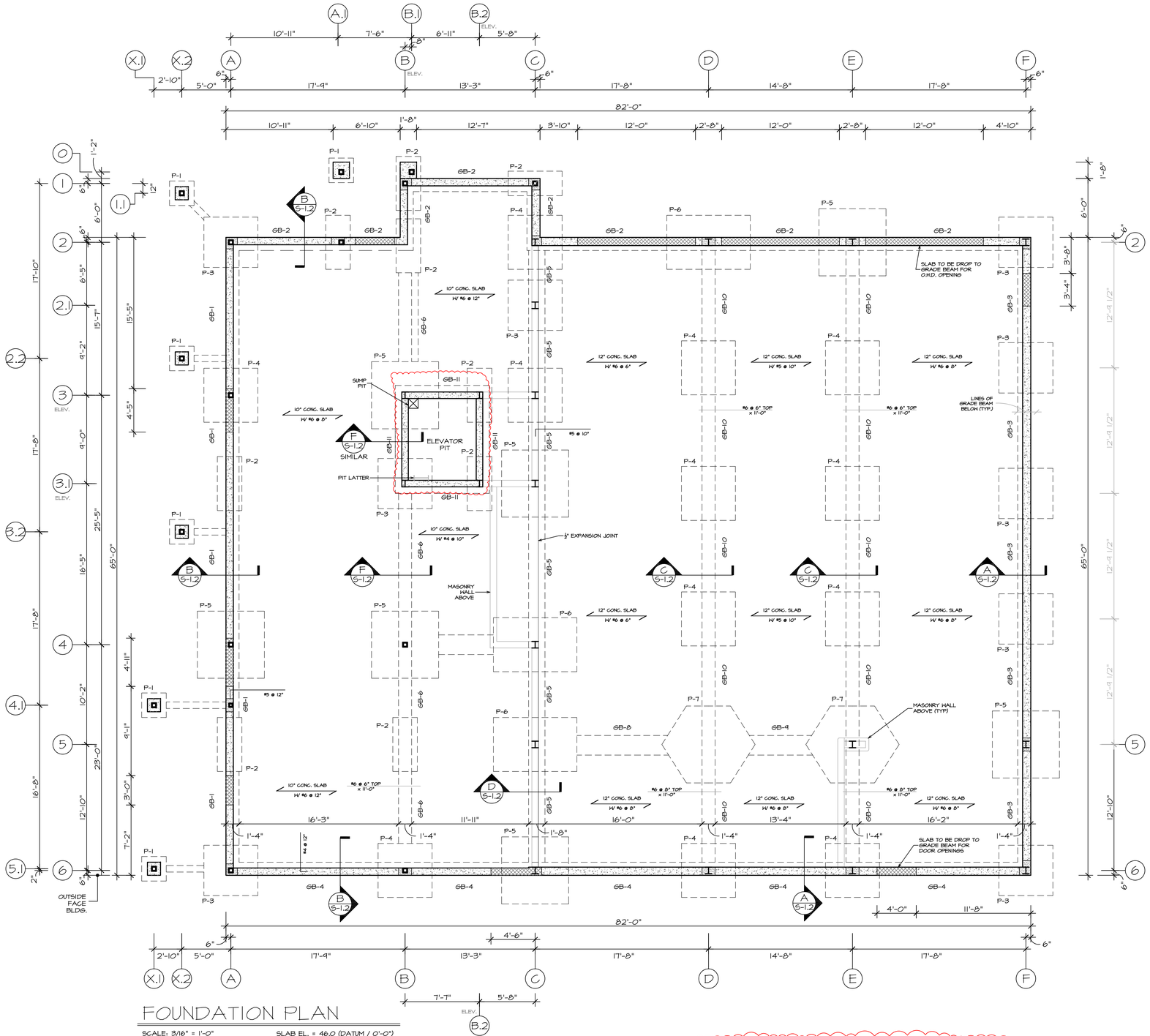
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FOUNDATION PLAN

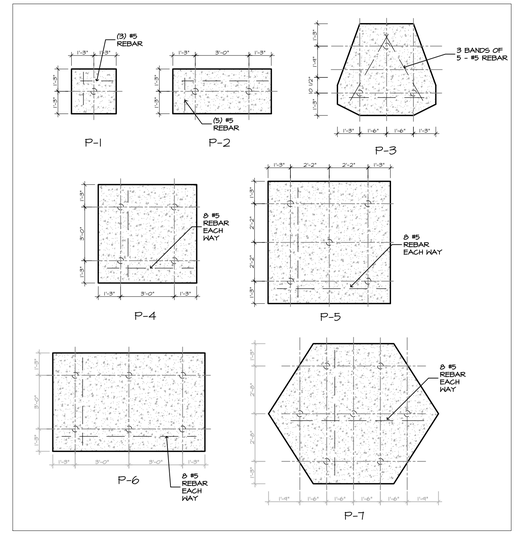
SCALE: 3/16" = 1'-0" SLAB EL. = 46.0 (DATUM / 0'-0")

NOTES:

1. HEAVY DUTY 20-MIL VAPOR BARRIER SHALL BE PROVIDED & INSTALLED UNDER ALL CONCRETE SLABS.
2. REFER TO TEST HOLES PROVIDED IN SITE DRAWINGS FOR SOIL CLASSIFICATIONS & ANTICIPATED DEPTHS. RESULTS WITHIN PROVIDED TEST HOLES SHALL BE CONSIDERED APPLICABLE TO ALL OTHER AREAS OF THE SITE.
3. BID DEPTH OF HELICAL PILES SHALL BE 20'-0" FROM DATUM ELEV. 44.0
4. UNIT PRICE IS TO BE PROVIDED IN BID FOR EXTRA/CREDIT FOR DIFFERENCE IN ACTUAL DEPTH COMPARED TO THE 25'-0"
5. COORDINATE UNDER SLAB PIPING HANGERS WITH PLUMBING CONTRACTOR.
6. GC SHALL VERIFY ELEVATOR PIT CLEAR DIMENSIONS W/ APPROVED MANUFACTURER PRIOR TO FORMING/POURING & STEEL WORK.
7. INCLUDE SLAB EXPANSION JOINTS FOR ALL MAIN COLUMN LINES. VERIFY REQUIRED LOCATIONS PRIOR TO PLACEMENT.

ELEVATOR PIT WATERPROOFING NOTES:

1. WATER STOP IN FOOTING TO BE CONTINUOUS 6" VERTICAL RUBBER DUMBBELL - HARGO MODEL DB0 WITH DBUE CORNERS.
2. FOUNDATION WATERPROOFING TO BE APPLIED TO EXTERIOR OF PIT WALLS - MENARDS WATER BARRIER B6100 WITH D-41 PRIMER.
3. UNDERSLAB TO HAVE NR MEADOWS PERMINATOR 15MIL VAPOR BARRIER, TURN UP FULL HEIGHT ON FACE OF FOOTING/SLAB.



PILE CAP DETAILS

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

GRADE BEAM SCHEDULE				
DESIGNATION	SIZE	TOP STEEL	BOTTOM STEEL	#3 STIRRUPS @ 12"
GB - 1	16"x36"	3 - #7	3 - #6	#3 STIRRUPS @ 12"
GB - 2	16"x36"	3 - #5	3 - #5	#3 STIRRUPS @ 12"
GB - 3	16"x36"	3 - #8	3 - #7	#3 STIRRUPS @ 12"
GB - 4	16"x36"	3 - #7	3 - #7	#3 STIRRUPS @ 12"
GB - 5	20"x36"	3 - #7	3 - #6	#3 STIRRUPS @ 12"
GB - 6	16"x36"	3 - #8	3 - #8	#3 STIRRUPS @ 12"
GB - 7	16"x36"	3 - #8	3 - #8	#3 STIRRUPS @ 12"
GB - 8	16"x36"	4 - #9	4 - #9	#3 STIRRUPS @ 12"
GB - 9	16"x36"	4 - #9	3 - #9	#3 STIRRUPS @ 12"
GB - 10	16"x36"	4 - #5	3 - #9	#3 STIRRUPS @ 12"
GB - 11	16"x66"	4 - #5	3 - #9	#3 STIRRUPS @ 12"

HELICAL PILE NOTES:

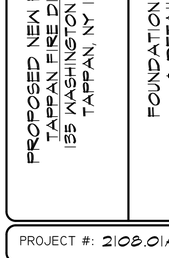
1. ALL PILES SHALL BE PATENTED HILICAL PILES AND APPURTANCES AS FURNISHED BY PREMIUM TECHNICAL SERVICES OR EQUAL.
2. HELICAL PILE LEAD SECTIONS SHALL BE MODEL SS175 WITH A 1-3 /4" DIAMETER ROUND SHAFT AND (1) 10", (1) 12"AND (1) 14" DIAMETER HELIX. LEAD SECTIONS SHALL BE 5.5' LONG. HELIX PILE EXTENSION MAY BE 5', 7', OR 10' LONG DEPENDING ON VERTICAL CLEARANCE.
3. HELICAL PILES, EXTENSIONS AND APPURTANCES SHALL BE HOT DIPPED GALVANIZED STEEL IN ACCORDANCE WITH ASTM A153.
4. ALL PILE INSTALLATION OPERATIONS SHALL BE SUPERVISED BY A N.Y.S. LICENSED ENGINEER COMMISSIONED BY THE PILE INSTALLER. THE INSPECTOR SHALL KEEP A COMPLETE RECORD OF THE PILE INSTALLATION OPERATION.
5. HELICAL PILES SHALL BE INSTALLED THROUGH ALL FILL, BOG, SILT, ETC. AND TO PENETRATE A MINIMUM DEPTH 10' INTO GOOD GRANULAR BEARING MATERIAL , AND TO A MINIMUM CAPACITY OF 15 TONS (WORKING LOAD).
6. HELICAL PILES SHALL BE INSTALLED AS SHOWN ON THE ENGINEERS PLAN. ALL CHANGES IN PILE LOCATION MUST BE APPROVED BY THE DESIGN ENGINEER.
7. IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED DURING INSTALLATION, THE CONTRACTOR SHALL HAVE THE OPTION OF REMOVING THE OBSTRUCTION, IF POSSIBLE, OR RELOCATING THE PILE WITH THE DESIGN ENGINEERS APPROVAL. THE LATTER OPTION MAY REQUIRE THE RELOCATION OF ADJACENT PILES.
8. THE HELICAL PILE SHALL BE CONNECTED TO THE STRUCTURE USING A PTS APPROVED STEEL BRACKET OR CAP PLATE AS THE CASE MAY BE SHOWN ON DESIGN ENGINEERS PLAN. THESE CONNECTION DEVICES SHALL BE CAPABLE OF SAFELY TRANSFERRING THE STRUCTURAL LOADS TO THE HELICAL PILE.
9. WRITTEN INSTALLATION RECORDS SHALL BE MAINTAINED FOR EACH HELICAL PILE. THESE RECORDS SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   - A. PROJECT NAME AND/OR LOCATION.
   - B. NAME OF CONTRACTORS FOREMAN OR REPRESENTATIVE WHO WITNESSED THE INSTALLATION
   - C. DATE AND TIME OF INSTALLATION.
   - D. LOCATION AND REFERENCE NUMBER OF EACH PILE.
   - E. DESCRIPTION OF LEAD SECTION AND EXTENSIONS INSTALLED.
   - F. OVERALL DEPTH OF INSTALLATIONS REFERENCED FROM THE BOTTOM OF GRADE BEAM OR PILE CAP.
   - G. TORQUE READING FOR THE LAST THREE FEET OF INSTALLATION IF PRACTICAL. IN LIEU OF THIS REQUIREMENT, THE TERMINAL TORQUE SHALL BE RECORDED AS A MINIMUM.
   - H. ANY OTHER RELEVANT INFORMATION RELATING TO THE INSTALLATION.
10. THE INSTALLERS N.Y.S LICENSED PROFESSIONAL ENGINEER MUST CERTIFY THE PILE INSTALLATION RECORD.

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1 10-14-2022 REVISED FOR CONSTRUCTION

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PROPOSED NEW FACILITY
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FOUNDATION PLAN & DETAILS

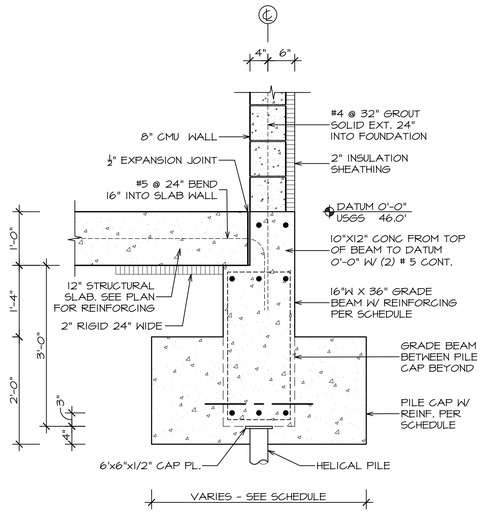
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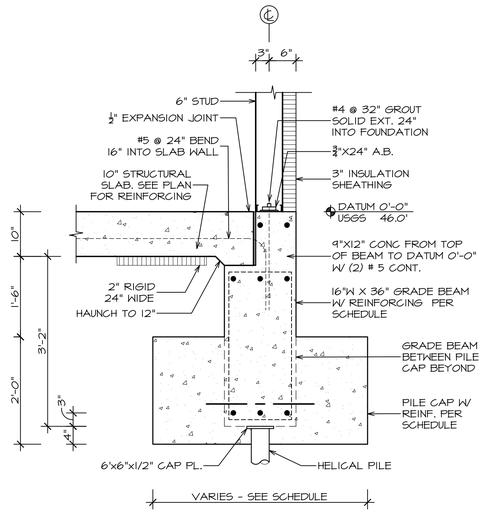
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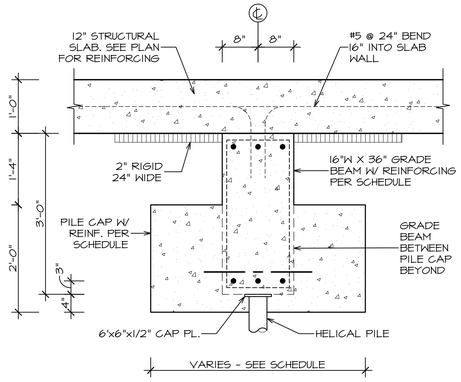
PERIMETER GRADE BEAM/WALL DETAIL EAST OF COL. C (APPARATUS AREA)

(A) SCALE: 3/4" = 1'-0"



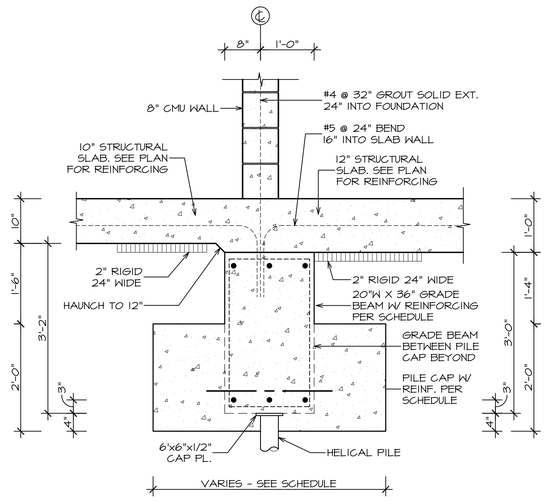
PERIMETER GRADE BEAM/WALL DETAIL WEST OF COL. C (OCCUPIED AREAS)

(B) SCALE: 3/4" = 1'-0"



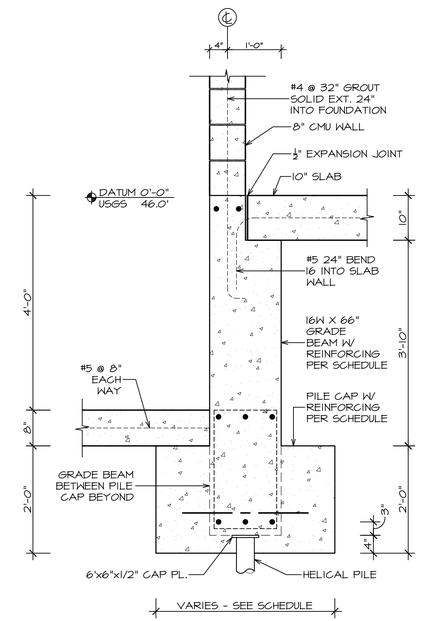
GRADE BEAM @ COLS. D&E

(C) SCALE: 3/4" = 1'-0"



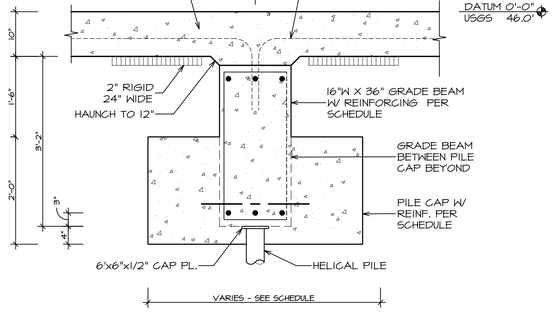
GRADE BEAM @ COL. C

(D) SCALE: 3/4" = 1'-0"



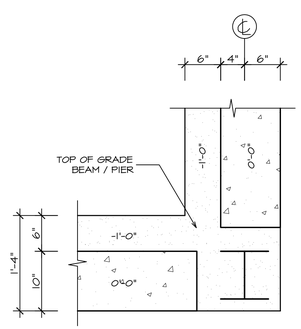
GRADE BEAM @ ELEVATOR

(E) SCALE: 3/4" = 1'-0"



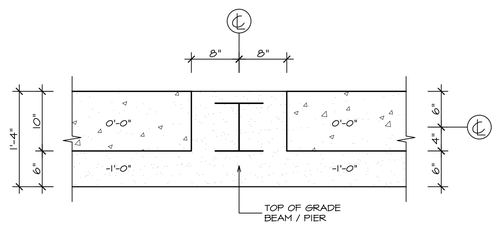
GRADE BEAM @ COL. B

(F) SCALE: 3/4" = 1'-0"



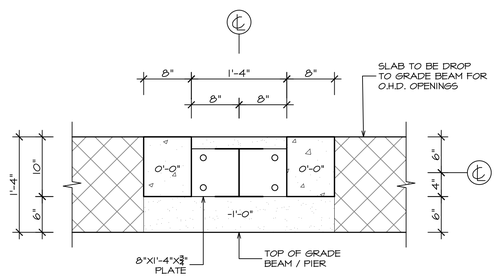
GRADE BEAM PLAN @ CORNERS

SCALE: 1" = 1'-0"



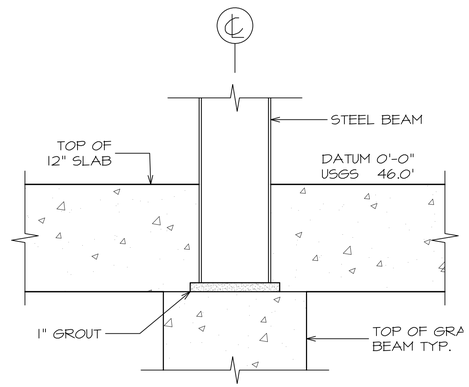
GRADE BEAM PLAN

SCALE: 1" = 1'-0"



GRADE BEAM PLAN @ O.H.D.

SCALE: 1" = 1'-0"



GRADE BEAM ELEV.

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

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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

FOUNDATION PIER DETAILS

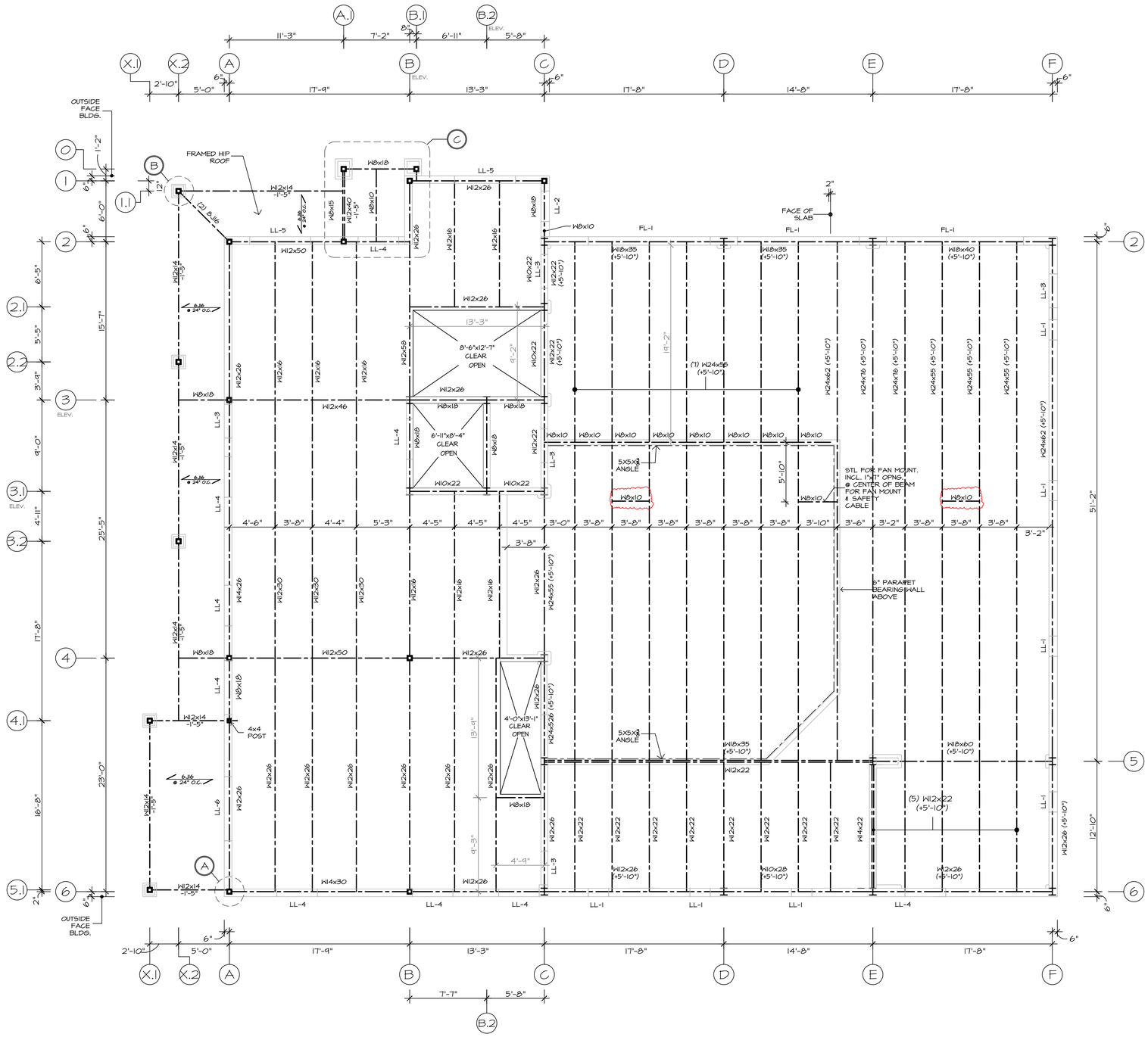
PROJECT #: 2108.01A

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CAD FILE: 2108.01A/P./BID

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S-1.2

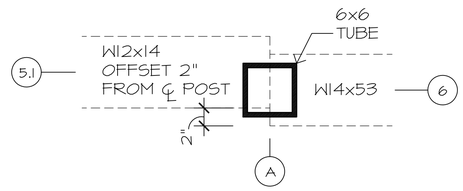


SECOND FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

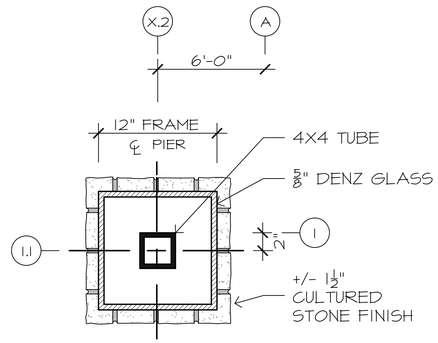
NOTES:
1. TOP OF STEEL ELEVATION +11'-3" UNLESS NOTED OTHERWISE USING +11'-3" AS REFERENCE. ALL ELEVATIONS ARE FROM FIRST FLOOR DATUM ELEVATION 0'-0".
2. SECOND FLOOR DECK TO BE 5" CONC. SLAB ON 1 ½" DEEP 22-GAUGE 'B-LOK' COMPOSITE FLOOR DECK W/ 6"x6"-W4.0/W4.0 WWM.
3. ATTIC FLOOR DECK TO BE 5" CONC. SLAB ON 1 ½" DEEP 22-GAUGE 'B-LOK' COMPOSITE FLOOR DECK W/ 6"x6"-W4.0/W4.0 WWM.

LOAD NOTES:
1. LL 100#/SF + 75#/SF DL USED FOR ALL ATTIC AREAS OVER 5'-0" HIGH.
2. 50#/SF LL + 20#/SF DL PROVIDED FOR FLAT ROOF AREAS.



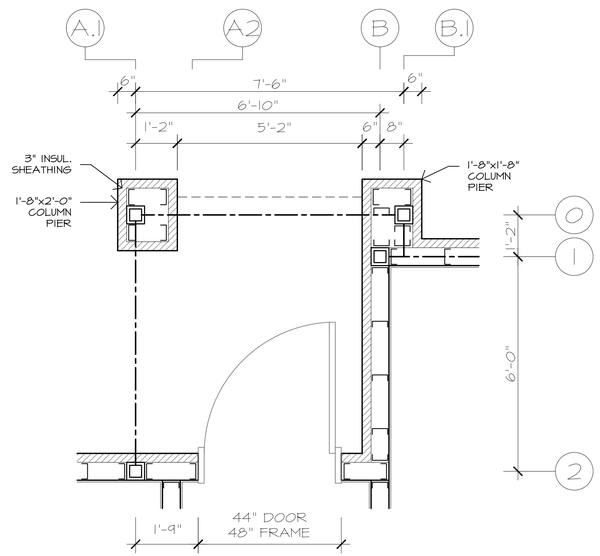
A POST DETAIL

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



B PIER DETAIL

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



C PIER DETAIL

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

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PROPOSED NEW FACILITY
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SECOND FLOOR/ATTIC FRAMING PLAN & DETAILS

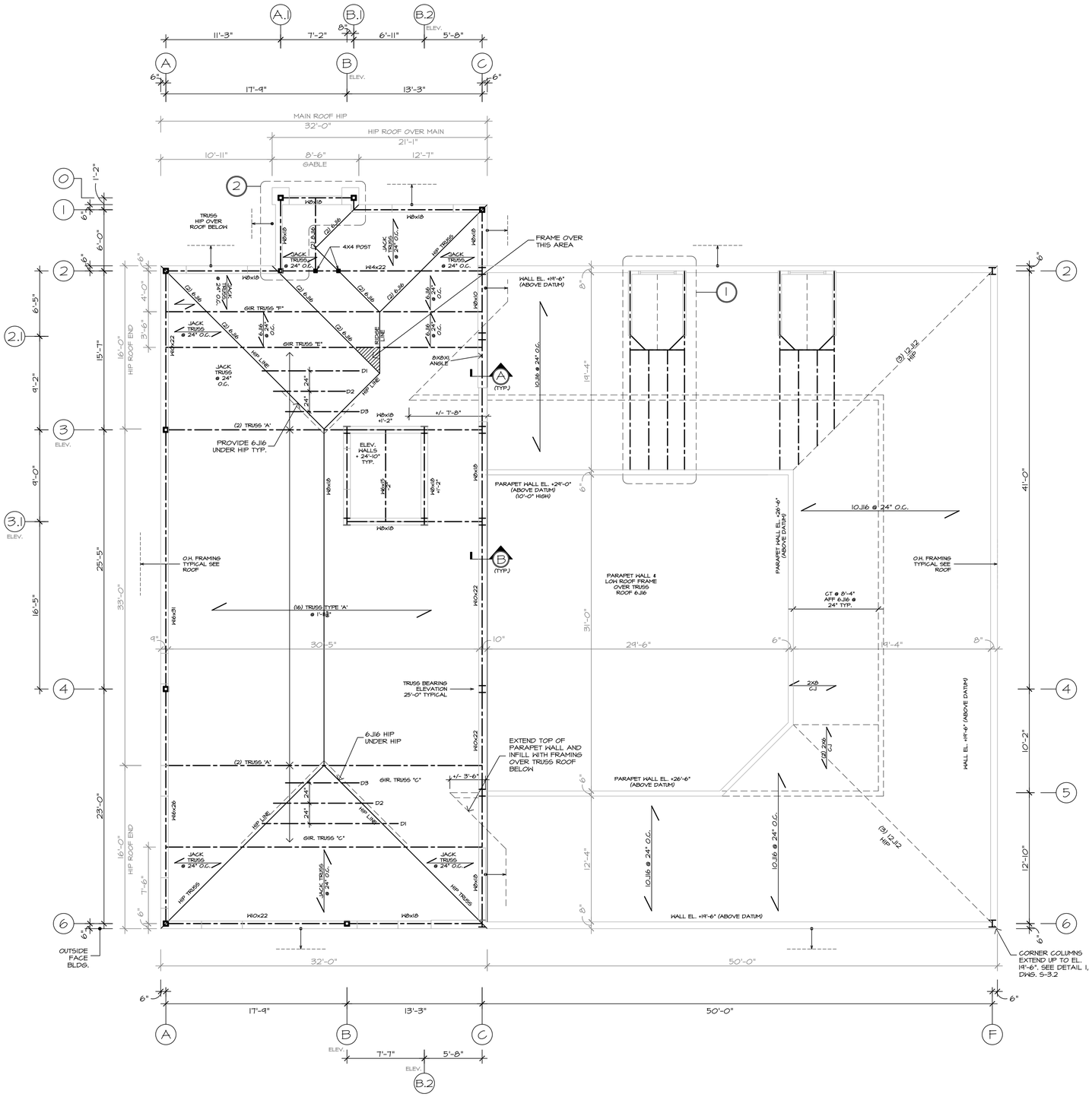
PROJECT #: 2108.01A

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CAD FILE: 2108.01A/P:/BID

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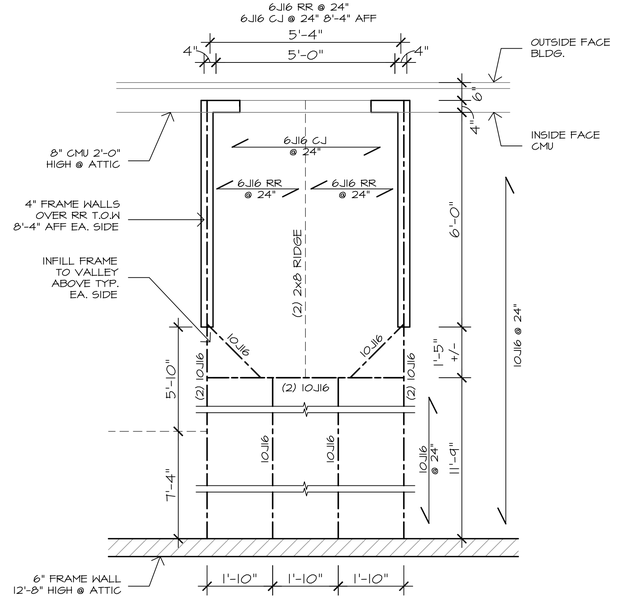
S-2



ROOF FRAMING PLAN

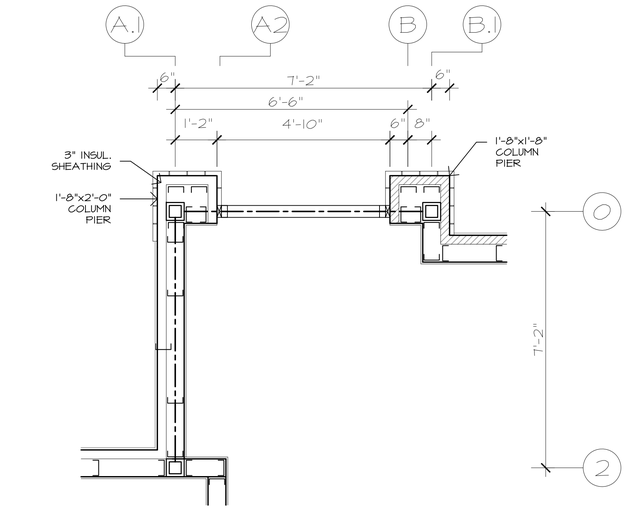
SCALE: 3/16" = 1'-0"

TOP OF STEEL/BOTTOM OF TRUSS ELEVATION +25'-0" UNLESS NOTED OTHERWISE USING +25'-0" AS REFERENCE.



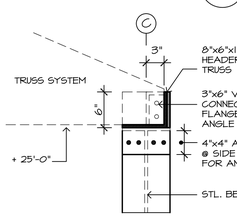
1 DORMER PLAN

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



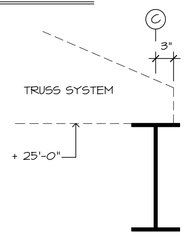
2 ENTRY FRAMING

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



A DETAIL

SCALE: 1" = 1'-0"



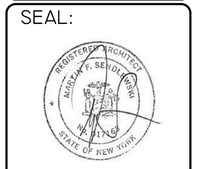
B DETAIL

SCALE: 1" = 1'-0"

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ROOF FRAMING PLAN & DETAILS

PROJECT #: 2108.01A

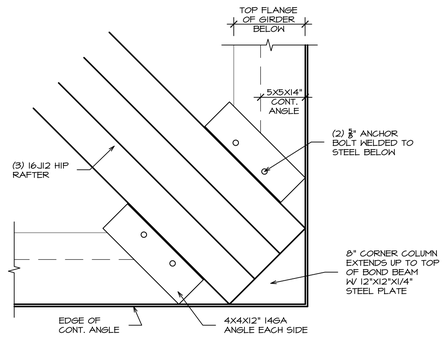
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CAD FILE: 2108.01A/P:/BID

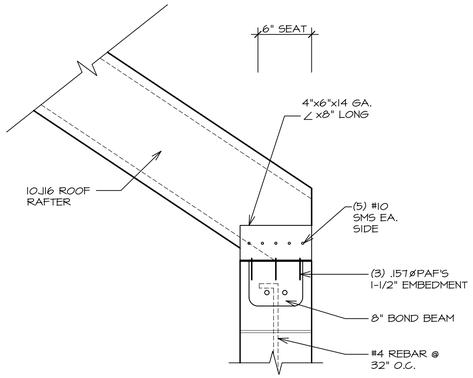
DRAWING#:

S-3.1

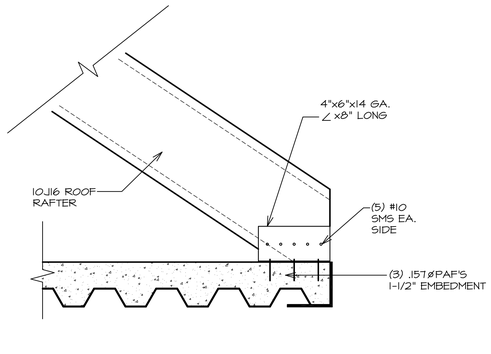
NOTES:
1. TRUSS DIMENSIONS ARE TO BE VERIFIED IN COORDINATION WITH STRUCTURAL PLANS & DIMENSIONS.
2. FULLY ENGINEERED TRUSS SHOP DRAWINGS BY THE APPROVED MANUFACTURER SHALL BE PROVIDED FOR REVIEW PRIOR TO ORDER.



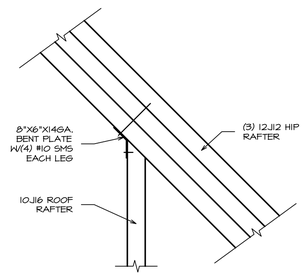
1 HIP RAFTER/BOTTOM SEAT SLAB CONNECTION PLAN
SCALE: 1-1/12" = 1'-0"



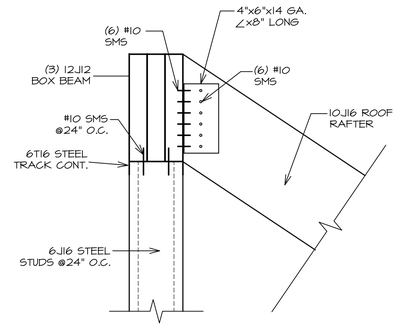
2 ROOF RAFTER/BOTTOM SEAT SLAB CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"



3 ROOF RAFTER/BOTTOM SEAT SLAB CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"

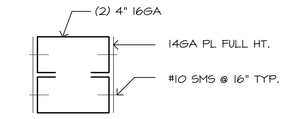


4 ROOF RAFTER TO HIP DETAIL
SCALE: 1-1/2" = 1'-0"

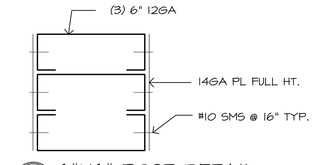


5 ROOF RAFTER TO BOX BEAM @ TOP OF WALL
SCALE: 1-1/2" = 1'-0"

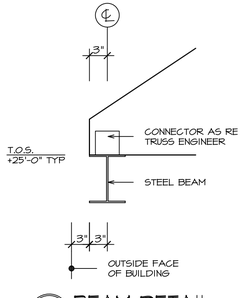
ADDENDUM NOTES:
1. BOTTOM OF ALL ROOF TRUSS AREAS SHALL RECEIVE 5/8" GYPSUM BOARD & 1-COAT OF TAPE & SPACKLE (TYPICAL).



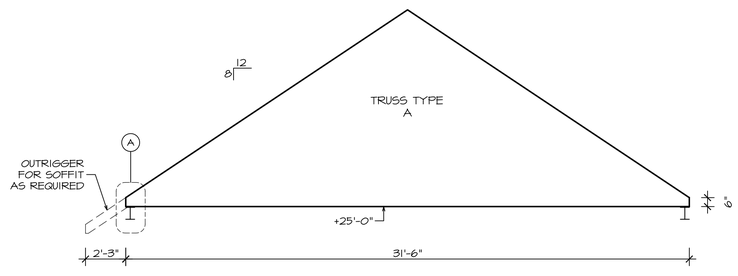
6.1 4"X4" POST DETAIL
SCALE: 3" = 1'-0"



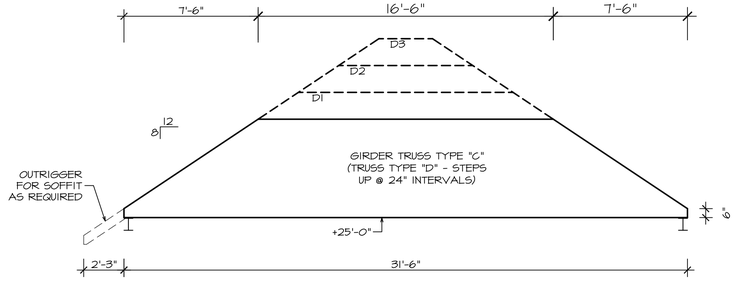
6.2 6"X6" POST DETAIL
SCALE: 3" = 1'-0"



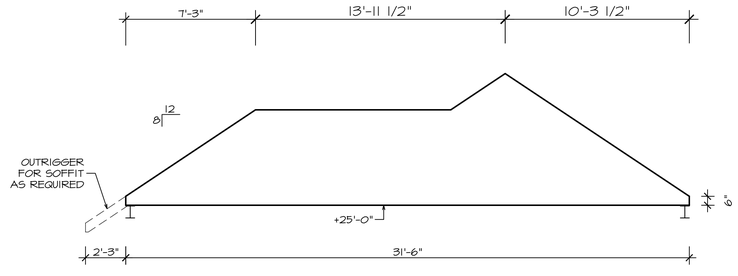
A BEAM DETAIL
SCALE: 1/4" = 1'-0"



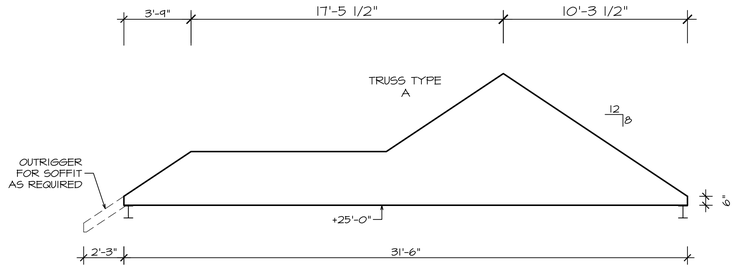
7 TRUSS TYPE A
SCALE: 1/4" = 1'-0"



8 TRUSS TYPE C & D
SCALE: 1/4" = 1'-0"



9 TRUSS TYPE E
SCALE: 1/4" = 1'-0"



10 TRUSS TYPE F
SCALE: 1/4" = 1'-0"

DATE: ISSUE

01-20-2022 ISSUED FOR BID & PERMIT

10-14-2022 REVISED FOR CONSTRUCTION

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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
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ROOF FRAMING & TRUSS DETAILS

PROJECT #: 2108.01A

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S-3.2

COLUMN SCHEDULE

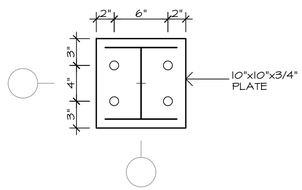
COL. NO. / TIER	A-2	A-3	A-4	A-4.1	A-6	A.1-0	A.1-2	B-1	B-3 &B-3.1 (ELEV.)	B-4	B-6	B1-0	B2-3 (ELEV.)	B2-3.1 (ELEV.)	C-1	C-2	C-2.1	C-3	C-3.1	C-4	C-5	C-6	D-2	D-6	E-2	E-5	E-6	F-2	F-5	F-6	COVERED PATIO X1-5.1	X1-4.1	X2-3.2	X2-2.2	X2-1.1
UPPER TRUSS ROOF +25'-0"																																			
UPPER ATTIC/ FLAT ROOF FLOOR +17'-6"																									5"										
2ND. FLR. +11'-8"				1'-5"						5"																								1'-10"	
1ST. FL. +0'-0" (DATUM)	6" x 6" x 1/4"	6" x 6" x 3/16" 1"	6" x 6" x 1/4"	4"x4"x1/4"	6" x 6" x 1/4"	6"x6"x3/16"	6" x 6" x 1/4"	6" x 6" x 1/4"	W 8 x 31	6" x 6" x 1/4"	6" x 6" x 1/4"	6" x 6" x 1/4"	W 8 x 31	W 8 x 31	6" x 6" x 1/4"	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	4"x4"x1/4"	4"x4"x1/4"	4"x4"x1/4"	4"x4"x1/4"	4"x4"x1/4" 1"
BASE PLATE SEE DETAILS	B	C	C	E	B	E	C	B	F	C	C	E	F	F	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	E	E	E	E	E

PORCH ROOF STEEL +9'-10"

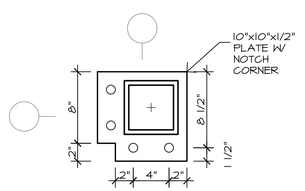
NOTES:

1. BOTTOM ELEV. OF ALL COLUMNS BELOW DATUM TO BE -1" + 1" NON-SHRINK GROUT (UNLESS NOTED OTHERWISE)
2. WELDED MASONRY ANCHORS ON ALL COLUMNS @ CMU SHALL BE FULL HEIGHT TYPICAL. COORDINATE W/ MASON FOR ANCHOR TIE INSTALLS.
3. ALL TUBE COLUMNS TO BE Fy = 46 ksi
4. ALL 'W' COLUMNS 50 ksi UNLESS NOTED OTHERWISE

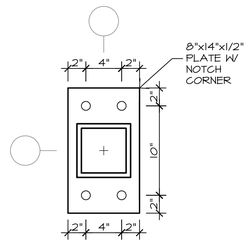
BASEPLATE DETAILS



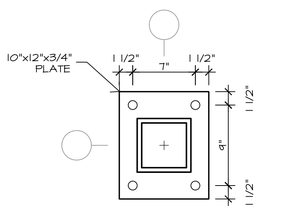
A DETAIL
SCALE: 1 1/2" = 1'-0"



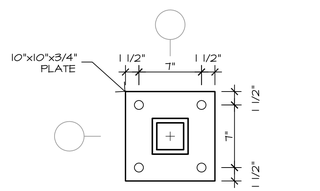
B DETAIL
SCALE: 1 1/2" = 1'-0"



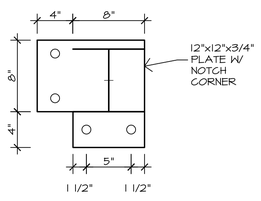
C DETAIL
SCALE: 1 1/2" = 1'-0"



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



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



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

TAPPAN FD - DESIGN CRITERIA:

DESIGN LOADS:

GROUND SNOW LOAD = 36 PSF
SNOW LOAD IMPORTANCE FACTOR I_s = 1.2
THERMAL FACTOR C = 1.0
FLAT ROOF SNOW LOAD = 25.2 PSF
ROOF DEAD LOAD = 25 PSF
ROOF LIVE LOAD = 20 PSF
FLOOR (LL) = 100 PSF
FLOOR (DL) = 50/105 PSF
(DRIFTING LOADS IN ACCORDANCE WITH ASCE 7)
WIND (128 MPH) = 42 PSF
WIND IMPORTANCE FACTOR I_w = 1.15
EXPOSURE "B"
INTERNAL PRESSURE COEFFICIENT = ± .18
DESIGN WIND PRESSURE FOR COMPONENTS & CLADDING = +34 PSF; -43 PSF
OCCUPANCY CATEGORY IV

SEISMIC DESIGN PARAMETERS:

1. I_E = 1.50; SEISMIC USE GROUP "IV"
2. S_s = .299
   S_1 = .062
3. SITE CLASS "D"
4. S_{DS} = .259
   S_{D1} = .062
5. SEISMIC DESIGN CATEGORY "C"
6. SEISMIC COEFFICIENTS FOR ORDINARY REINFORCED MASONRY SHEARWALLS
   A. R = 2
   B. ΩV = 2.5
   C. Cd = 2
   D. REDUNDANCY COEFFICIENT = 1.0
   E. FUNDAMENTAL PERIOD = .41 SEC.
   F. C_s = .115
7. SEISMIC COEFFICIENTS FOR LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRIP BRACING
   A. R = 4
   B. ΩV = 2
   C. CD = 3.5
   D. REDUNDANCY COEFFICIENT = 1.0
   E. FUNDAMENTAL PERIOD = .51 SEC.
   F. C_s = .046
8. DESIGN BASE SHEAR = 95.6 KIPS

SPECIAL INSPECTIONS REQUIRED:

1. STEEL
   A. MATERIAL VERIFICATION OF STRUCTURAL STEEL
   B. HIGH STRENGTH BOLTS
   C. WELDING
   D. JOINT DETAILS AS CONSTRUCTED
2. CONCRETE
   A. REINFORCING STEEL
   B. ANCHOR BOLTS
   C. PLACEMENT & CURING
   D. SAMPLING FRESH CONCRETE
3. MASONRY
   A. MORTAR & JOINTS
   B. REINFORCING
   C. HOT & COLD WEATHER PROTECTION
   D. GROUTING
4. PILE FOUNDATIONS
   A. CONTINUOUS SPECIAL INSPECTIONS DURING INSTALLATION.

* SOIL BEARING CAPACITY (PER TEST BORIONG REPORT)

GENERAL STRUCTURAL NOTES

FOUNDATION:

1. ALL PILE CAP FOOTINGS SHALL REST ON HELICAL PILES. SEE DETAILS DWG S-1
2. KEEP FOOTING BOTTOMS WELL DRAINED UNTIL FOOTINGS ARE IN PLACE, PUMP AS REQUIRED.
3. CONSTRUCTION JOINTS IN FOUNDATION WALLS SHALL BE NO MORE THAN 50 FEET APART AND NO LESS THAN 4'- 0" FROM ANY PIER. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS. DO NOT USE HORIZONTAL CONSTRUCTION JOINTS.
4. SLABS ON GRADE SHALL BE PLACED BY STRIP PLACING METHOD (MAX. WIDTH 30 FT. BY INFINITE LENGTH) WITH CONTROL JOINTS (SAW CUT) MAX. 30'- 0" O.C.; CONSTRUCTION JOINTS SHALL BE LOCATED ALONG LENGTH OF PLACEMENT AND AT ENDS OF PLACEMENT.

CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301-16; EXTERIOR CONCRETE WORK SHALL BE 4000 PSI AIR-ENTRAINED. SLABS ON GRADE SHALL BE NORMAL WEIGHT CONCRETE.
2. ALL REINFORCEMENT SHALL BE DEFORMED TYPE INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
3. TEMPERATURE REINFORCEMENT, SPLICES, SUPPORTS FOR REINFORCEMENT SHALL CONFORM TO REQUIREMENTS OF ACI-318 14.
4. CONTINUOUS REINFORCEMENTS SHALL BE LAPPED 48 DIAMETERS AT SPLICES AND CORNERS AND HOOKED AT NON-CONTINUOUS ENDS OR EXTENDED 24 BAR DIAMETERS UNLESS OTHERWISE NOTED. DETAILING OF ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI SP-66. (88)
5. PROVIDE TWO #6 ALL SIDES FOR OPENINGS IN CONCRETE WALLS UNLESS OTHERWISE NOTED. EXTEND BARS 2'-0" BEYOND OPENING; HOOK ENDS.
6. PROVIDE SLEEVES AND BOX OUT FOR OPENINGS FOR MECHANICAL TRADES. OPENINGS SHALL BE PLACED SO AS NOT TO AFFECT THE STRENGTH OF STRUCTURAL MEMBERS.
7. BEFORE PLACING CONCRETE, CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPLETE SEQUENCE OF PLACING SCHEDULE. INDICATING ALL CONSTRUCTION JOINTS, TIME SCHEDULE, AND GUARANTEE OF CONTINUITY OF CONCRETE SUPPLY.

MASONRY:

1. ALL CONCRETE BLOCK SHALL BE LOAD BEARING AND SHALL CONFORM TO A.S.T.M. STANDARD C-90 FOR GRADE "N" UNITS. MORTAR SHALL BE TYPE "M".
2. PROVIDE VERTICAL CONTROL JOINTS IN BLOCK WALL 30'-0" O.C. MAXIMUM USING A PRE MOLDED FILLER AND JAMB BLOCKS UNLESS DETAILED OTHERWISE.
3. ALL BLOCK WALLS SHALL BE CONSTRUCTED WITH GALV. WALL REINFORCING. REINFORCING TO BE TRUSS-TYPE, 9 GAUGE AND PLACED A MAXIMUM OF 1'-4" O.C. VERTICALLY AND TO BE THE WIDTH RECOMMENDED BY THE MANUFACTURER. PROVIDE #5 BARS @ 32" O.C. VERT. IN ALL MASONRY WALLS
4. FILL BLOCKS SOLID UNDER CONCENTRATED LOADS IN ALL BLOCK WALLS ABOVE AND BELOW GRADE.
5. ALL ANCHORAGE PLACED IN MASONRY SHALL BE ANCHORED SECURELY WITH CONCRETE.
6. ALL JAMBS AT MASONRY OPENINGS SHALL BE FILLED SOLID WITH CONCRETE.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. ROLLED SHAPES AND PLATES SHALL CONFORM TO ASTM DESIGNATION A-572 UNLESS NOTED OTHERWISE; STEEL PIPE SHALL CONFORM TO ASTM A501; STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.
3. SHOP CONNECTIONS SHALL BE WELDED. FIELD CONNECTIONS SHALL BE 3/4" DIAMETER A-325 TYPE N CONNECTION, EXCEPT WHERE FIELD WELDING IS CALLED FOR ON THE DRAWING.
4. WELDING SHALL COMPLY WITH AWS SPECIFICATIONS. USE E70XX ELECTRODES.
5. ALL STEEL SHALL RECEIVE ONE SHOP COAT OF RUST-INHIBITIVE PAINT.
6. PROVIDE ANGLE ANCHORS AT ENDS OF ALL BEAMS RESTING ON MASONRY OR CONCRETE.
7. CONNECTIONS TO BE DOUBLE ANGLE CONNECTIONS UNLESS NOTED OTHERWISE.
8. ALL BASE PLATES SHALL BE ANCHORED WITH (4) 3/4" DIAMETER BY 18" LONG ANCHOR RODS UNLESS NOTED OTHERWISE.
9. ALL LOOSE LINTELS SHALL HAVE A MINIMUM OF 8" BEARING AT EACH END OF M.O.; PROVIDE FLASHING AT ALL EXTERIOR OPENINGS. ALL WIDE FLANGE LINTELS SHALL HAVE A MINIMUM OF 10" BEARING EACH END OVER 16" BRICK MASONRY.
10. PROVIDE ALL BOLTS, HOLES ANCHORS, ANGLES, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION AND AS REQUIRED BY THE WORK OF OTHER TRADES.
11. PROVIDE MASONRY ANCHORS AT 32" O.C. ON ALL SPANDREL BEAMS AND 16" O.C. ON ALL COLUMNS. HOHMANN & BARNARD 1/4" #VNT GALV. WALL TIE WITH #359 GALV. WELD-ON TIES OR APP. EQUAL.

STEEL DECK:

1. STEEL ROOF DECK SHALL BE 22 GAUGE, 1 1/2" DEEP, GALVANIZED, TYPE "B" AS MANUFACTURED BY UNITED STEEL DECK INC. OR APPROVED EQUAL; FLOOR DECK SHALL BE 1 1/2" DEEP GALV. 22 GAUGE B-LOK COMPOSITE FLOOR DECK
2. WELD SIDE LAPS AT MID-POINT OF SPAN.

DATE: ISSUE

01-20-2022 ISSUED FOR BID & PERMIT

SEAL:

REGISTERED ARCHITECT MICHAEL F. SENDLEWSKI 026744 STATE OF NEW YORK

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PROPOSED NEW FACILITY
TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN, NY 10983

COLUMN SCHEDULE & DETAILS

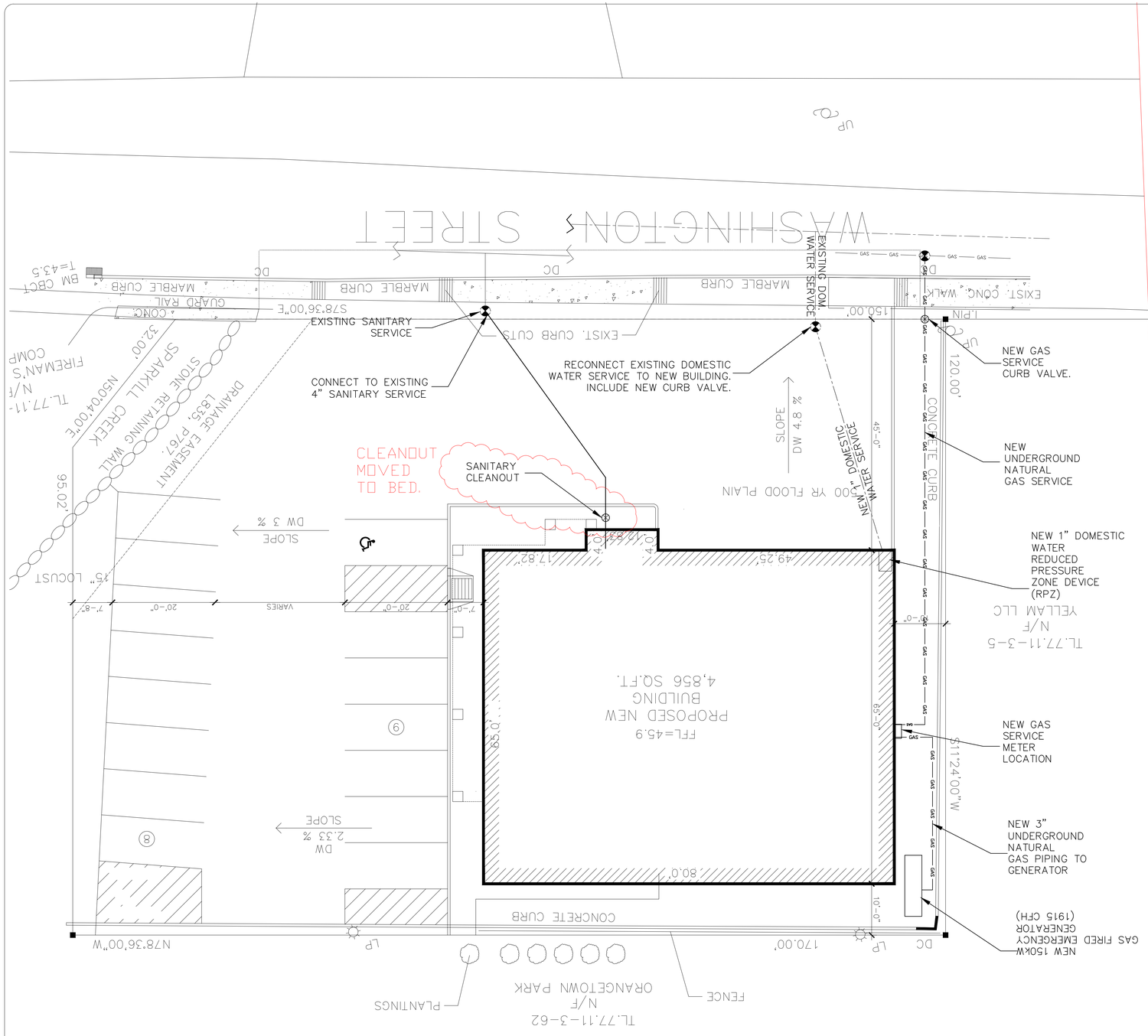
PROJECT #: 2108.01A

DRAWN BY:

CAD FILE: 2108.01A/P:/BID

DRAWING#:

S-4



PLUMBING SITE PLAN

SCALE: 1/16" = 1'-0"

DRAWING LIST:

P-1	PLUMBING SITE PLAN
P-2	PLUMBING FIXTURE SCHEDULE & SPECIALTY SCHEDULE
P-3	FIRST FLOOR DOMESTIC WATER PLAN
P-4	SECOND FLOOR DOMESTIC WATER PLAN
P-5	FIRST FLOOR SANITARY PLAN
P-6	SECOND FLOOR SANITARY PLAN
P-7	DOMESTIC WATER RISER DIAGRAM
P-8	SANITARY RISER DIAGRAM
P-9	NATURAL GAS RISER DIAGRAM
P-10	PLUMBING DETAILS
P-11	PLUMBING NOTES

SCOPE OF WORK:

THIS INSTALLATION SHALL CONFORM WITH WITH THNT, 2020 NYSECCC, 2020 NYSBC, 2020 NYSPC, 2020 NYSFGC. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR PAY FOR AND OBTAIN ALL FILINGS, APPROVALS, PERMITS AND SIGNOFFS FOR THIS PROJECT.

THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTAL ALL ITEMS NOTED BELOW AND WITHIN THESE DRAWINGS.

- A NEW 1" DOMESTIC WATER SERVICE INCLUDING THE CURB VALVE. EXISTING STREET CONNECTION TO REMAIN, INCLUDE BACKFLOW PREVENTION, ALL FIXTURES, EQUIPMENT, PIPING AND INSULATION.
- (4) HOT WATER SYSTEMS WHICH WILL INCLUDE (2) TANKLESS NATURAL GAS FIRED WATER HEATERS, (2) POINT OF USE WATER HEATER, INSULATED RE-CIRCULATION LINES, BALANCING VALVES AND PUMPS WITH TIMERS.
- A NEW 4" SANITARY SERVICE FROM THE EXISTING STREET CONNECTION. THIS SERVICE WILL INCLUDE A CLEANOUT AND VENTING SYSTEM FOR ALL FIXTURES ATTACHED. INSTALL SAMPLING MANHOLE AT PROPERTY LINE FOR WASTE LINE.
- A NEW NATURAL GAS SERVICE. THE SERVICE WILL PROVIDE GAS TO WATER HEATERS, BOILER(ADD/ALT), BACKUP GENERATOR AND UNIT HEATERS.
- COORDINATE SEPARATION OF ALL UNDERGROUND UTILITIES WITH RESPECTIVE AUTHORITY PRIOR TO WORK BEING PERFORMED.
- ALL COPPER PIPING ASSOCIATED WITH AIR & WATER HOSE REELS.
- ALL MECHANICAL EQUIPMENT CONDENSATE PIPING TO INDIRECT DRAINS.
- AIR COMPRESSOR, DRYER, COUPLINGS, REELS, CONCRETE PAD FOR THE AIR COMPRESSOR.
- REFER TO ARCHITECTURAL STAGING DRAWINGS FOR ADDITIONAL WORK TO BE INCLUDED WITHIN THE BASE BID.
- ALL TRENCHING, EXCAVATING AND BACKFILLING REQUIRED FOR THE INSTALLATION OF ANY SUBSURFACE WORK WITHIN THESE DRAWINGS IS TO BE PROVIDED BY THE PLUMBING CONTRACTOR.
- ALL MASONRY & FOUNDATION SLEEVES REQUIRED SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR IN COORDINATION WITH THE GC SCHEDULE OF MASONRY/CONCRETE WORK.
- REFER TO SITE DEMOLITION PLAN FOR ALL PLUMBING CONTRACTOR RELATED DEMO WORK, INCLUDING BUT NOT LIMITED TO CUTTING BACK OF EXISTING SYSTEMS TO LOCATIONS SPECIFIED.

ADD/ALTERNATE SCOPE OF WORK:

- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL: 2" GAS AND ¾" DOMESTIC WATER PIPING TO A NEW BOILER INSTALLED BY THE MECHANICAL CONTRACTOR LOCATED WITHIN THE APPARATUS BAY MECHANICAL ROOM FOR A 50'X50' SNOW MELT SYSTEM.

1. INSTALL UNDERGROUND CONDUIT FROM STREET CONNECTION TO MANIFOLD LOCATION AT THE BUILDING AS PER O&R REQUIREMENTS.

ADDED NOTE

DATE: ISSUE

SEAL:

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TAPPAN FIRE DISTRICT
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TAPPAN NY, 10983

PLUMBING SITE PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P: /BID

DRAWING#:

P-1

FIXTURE SCHEDULE

WC – FLOOR MOUNTED WATER CLOSET (ADA COMPLIANT)

FIXTURE FLOOR MOUNTED ELONGATED SIPHON ACTION BOWL, VITREOUS CHINA WITH SEAT, OPERATES AT 1.00 GPF, PRESSRE ASSIST
MODEL K–3519 KOHLER HIGHLINE SERIES. WITH TOILET SEAT.

LAV UNDERMOUNT LAVATORY

FIXTURE: CLASSIC OVAL UNDERMOUNT SINK, VITREOUS CHINA, UNGLAZED RIM, FRONT OVERFLOW, OVAL 17"x14" BOWL, CENTER DRAIN, SUPPLIED WITH UNDERCOUNTER MOUNTING KIT AMERICAN STANDARD ESTATE MODEL 0484.000

TRAP 1 1/4" CHROME PLATED "P" – TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE.

SUPPLY 3/8" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS.

FAUCET HARDWIRED, DECK MOUNTED, INFRARED SENSOR, 0.5 GPM, MULTI–LAMINAR SPRAY TYPE, 4" TRIM PLATE, POLISHED CHROME, BELOW DECK CONTROL ACCESS, BELOW DECK THERMOSTATIC MIXING VALVE, ADA COMPLIANT, ASME A112.18.1 COMPLIANT.
MODEL: SLOAN OPTIMA ETF–880.

SHWR SHOWER (ADA)

BASE BARRIER FREE PRECAST TERRAZZO 60"x36" (60" WIDE THRESHOLD) FLANGES ON THREE (3) SIDES SHALL BE GALVANIZED–BONDERIZED STEEL AND EXTEND NOT LESS THAN 1" ABOVE SHOULDERS, SHOULDERS ON THREE (3) SIDES SHALL NOT BE LESS THAN 2–½" INSIDE FOR INSTALLATION. THRESHOLD SHALL BE NOT MORE THAN ½" ABOVE RECEPTOR FLOOR TO ALLOW FOR BARRIER FREE ENTRANCE. DRAIN BODY WILL BE BRASS, CAST INTEGRAL, AND WILL PROVIDE FOR A NON–CAUKED CONNECTION NOT LESS THAN ONE (1) INCH DEEP TO A 2" PIPE. RECEPTOR. THE RECEPTOR CONSTRUCION SHALL BE OF TAN AND WHITE MARBLE CHIPS CAST IN WHITE PORTLAND CEMENT TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI, SEVEN (7) DAYS AFTER CASTING. TERRAZZO SURFACE SHALL BE GROUND, POLISHED, AND THE ENTIRE UNIT SEALED TO RESIST STAINS AND MOSTURE AFTER ANY AIR HOLES AND OR PITS ARE GROUND. RECEPTOR SHALL BE REINFORCED WITH 16 GAUGE WIRE AND FURNISHED WITH REMOVABLE STAINLESS STEEL STRAINER PLATE. FLORESTONE OR EQUAL MODEL No. 400.

TRAP 2" CAST IRON
SUPPLY 1/2" NPT DIRECT SWEAT TYPE
SHOWER FITTING– CAST BRASS VALVE BODY, WASHERLESS 47mm CERAMIC DISC VALVE CARTRIDGE WITH VOLUME CONTROL, TEMPERATURE CONTROL, SCREWDRIVER STOPS, AND HOT LIMIT SAFETY STOP. PRESSURE BALANCING CARTRIDGE MAINTAINS CONSTANT OUTPUT TEMPERATURE IN RESPONSE TO CHANGES IN RELATIVE HOT AND COLD WATER SUPPLY PRESSURE AND AVOIDS FAILURE DUE TO MINERAL DEPOSITS. TRIM SHALL BE POLISHED CHROME AND INCLUDE MINIMUM 2.5 GPM FLOW RESTRICTED ADJUSTABLE SPRAY SHOWER HEAD, CHROME METAL LEVER HANDLE, CHROME PLATED BRASS WALL ESCUTCHEON AND SHOWER ARM. AMERICAN STANDARD OR EQUAL VALVE BODY MODEL NO. R125SS, AND TRIM MODEL NO T000.501

AIR COMPRESSOR

DESCRIPTION: INGERSOLL RAND MODEL 2475N5. 17.2 CFM @ 90 PSI, 175 PSI MAX, 5 H.P., 28"L x 38"W x 69"H, ¾" OUTLET, 208V/1PH/60HZ

GWSH–1 GEAR WASHER (PURCHASED BY OWNER INSTALLED BY PLUMBER)

DESCRIPTION: 60 LB CAPACITY GEAR WASHER EXTRACTOR OVERALL SIZE 34.5"W x 52.3"D x 54.0"HIGH, WATER VALVES 0.8", DRAIN VALVE 3". ELECTRICAL DATA BASKET DRIVE MOTOR– 5 HP, SINGLE MOTOR DRIVE– 5 HP.
MFG. MILNOR MODEL No. 30022 V6J

DF WATER COOLER W/ BOTTLE FILLING STATION

FIXTURE UNIT SHALL INCLUDE AN ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. LZS8WSSP SHALL DELIVER 8 GPH OF 50°F OF DRINKING WATER AT 90°F AMBIENT AND 80°F INLET WATER. LOWER UNIT SHALL HAVE PUSHBAR ACTIVATION. BOTTLE FILLING UNIT SHALL INCLUDE AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AN AUTOMATIC 20–SECOND SHUT–OFF TIMER. LED LIGHT ILLUMINATING THE WATER DISPENSING AREA, BRIGHTENING AS WATER IS BEING DISPENSED. SHALL INCLUDE A GREEN TICKER™DISPLAYING COUNT OF PLASTIC BOTTLES SAVED FROM WASTE. BOTTLE FILLER SHALL PROVIDE A 1.1 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. SHALL INCLUDE THE WATERSENTRY® PLUS 3000–GALLON CAPACITY FILTER, CERTIFIED TO NSF/ANSI 42 & 53, WITH VISUAL FILTER MONITOR TO INDICATE WHEN REPLACEMENT IS NECESSARY. UNIT SHALL AUTOMATICALLY DETECT A NEW FILTER AND RESET VISUAL FILTER MONITOR ACCORDINGLY. UNIT SHALL HAVE THE ABILITY TO TURN OFF REFRIGERATION SYSTEM AS NEEDED, IN ADDITION TO SELF DIAGNOSING SYSTEM ISSUES AND RELAY MESSAGES RELATED. SHALL INCLUDE INTEGRATED SILVER ION ANTI–MICROBIAL PROTECTION IN KEY AREAS. UNIT SHALL MEET ADA GUIDELINES. UNIT SHALL BE A LEAD–FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 AND 372 AND MEETS FEDERAL AND STATE LOW–LEAD REQUIREMENTS. UNIT SHALL BE CERTIFIED TO UL399 AND CAN/CSA 22.2 NO. 120 & IS FCC COMPLIANT.
THE CHILLING CAPACITY SHALL PRODUCE 50 DEG. F. DRINKING WATER, BASED ON 80 DEG. F. INLET WATER AND 90 DEG. F. AMBIENT, UTILIZES HFC–134a REFRIGERANT CONTROLLED BY CALIBRATED CAPILLARY TUBING, CONTOURED SHOCK ABSORBING UPPER SHROUD AND ACCESSIBLE ONE PIECE LOWER SHROUD ALLOWING ACCESS TO INTERNAL COMPONENTS FROM THREE SIDES. MOTOR COMPRESSOR SHALL BE HERMETICALLY SEALED, RECIPROCATING TYPE, 115V, 60 Hz SINGLE PHASE, EQUIPPED WITH ELECTRIC CORD AND THREE PRONG MOLDED RUBBER PLUG. CAPACITY– 8.0 GPH OF 50 DEG F. @ 90 DEG. F. ROOM TEMPERATURE, 9.6 GPH. @ 70°F., AND 8.8 GPH. @ 80°F., 325 WATTS, & 3.7 FULL LOAD AMPS.

TRAP – 1 1/2" CHROME PLATED "P"–TRAP , TRAP NIPPLE AND ESCUTCHEON PLATE.

SUPPLY – CHROME PLATED 1/2" NIPPLES AND ESCUTCHEONS WITH 1/2" ANGLE

SUPPORT – FLOOR MOUNTED ELECTRIC WATER COOLER SUPPORTS UPRIGHTS SHALL BE HIGH STRENGTH STEEL WITH WELDED BASES SECURELY BOLTED TO FLOOR CONSTRUCTION. (2 REQD FOR BI–LEVEL COOLER) JR SMITH OR EQUAL MODEL No. 834–M31

ALL MODEL NUMBERS SHOWN ARE BASED ON INFORMATION GATHERED DURING DESIGN, AND ARE SUBJECT TO CHANGE BY MANUFACTURER. CONTRACTOR SHALL NOT RELY ON THE MODEL NUMBER ALONE BUT, SHALL RELY ON SPECIFICATIONS SHOWN ON SCHEDULES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR REVISED MODEL NUMBERS. VERIFY ALL MODELS WITH ARCHITECT PRIOR TO PURCHASE OR INSTALLATION.

MOP MOP SINK

FIXTURE– TERRAZZO, SQUARE DROP FRONT MOP RECEPTOR, 12" HIGH AND 1–¾" WIDE SHOULDER, GALVANIZED BONDERIZED STEEL FLANGE WILL BE CAST INTEGRAL AND EXTEND AT LEAST 1" ABOVE SHOULDER ON TWO (2) SIDES, 3" DRAIN, STAINESS STEEL CAP TO BE CAST INTEGRAL ON DROP. SIDE DRAIN BODY SHALL BE BRASS CAST INTEGRAL AND PROVIDES FOR A NON–CAULKED CONNECTION NOT LESS THAN 1" DEEP TO A 3"PIPE. RECEPTOR SHALL BE MANUFACTURED OF TAN AND WHITE MARBLE CHIPS CAST IN WHITE PORTLAND CEMENT WITH A COMPRESSIVE STRENGTH OF 3000 PSI, TERRAZZO SURFACE SHALL BE GROUND AND POLISHED WITH ALL AIR HOLES AND OR PITS GROUTED AND THE EXCESS REMOVED AND SEALED TO RESIST STAINS AND MOISTURE. RECEPTOR SHALL BE REINFORCED WITH 16 GA. WIRE. OVERALL SIZE 24"Lx24"Wx12"H WITH FLANGE. FLORESTONE OR EQUAL MODEL 60LH–24"x24"–12"

STRAINER– DOME TYPE CHROME PLATED FLORESTONE OR EQUAL MODEL NO. MR–376

MOP HANGER– WALL MOUNTED WITH 3 CLAMPS FLORESTONE OR EQUAL MODEL NO. MR–372

HOSE– ⅝" HOSE FIVE FEET LONG WITH CLAMP FLORESTONE OR EQUAL MODEL NO. MR–370
SUPPLY 1/2" NPT SWEAT TYPE, CHROME PLATED WITH STOP VALVES.
FAUCET– ROUGH CHROME PLATED CAST BRASS, ¼ TURN CERAMIC CARTRIDGES, VANDAL–RESISTANT FOUR ARM HANDLES WITH COLOR CODED INDEXES. CAST BRASS NOZZLE WITH ¾" HOSE THREAD, PAIL HOOK AND TOP BRACE. BRASS VACUUM BREAKER. BRASS BODY VANDAL RESISTANT SURFACE MOUNTED THREADED BRASS WALL FLANGE, & ½"NPTF INLETS. SPEAKMAN OR EQUAL MODEL NO SC–5811–RCP

EYE WASH STATION (AT APP BAY)

FIXTURE ULINE MODEL H–5795
TRAP – 1 1/4" CHROME PLATED "P" – TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE.
SUPPLY – 1/2" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS.

HS HANDSINK

FIXTURE– SINGLE COMPARTMENT 17"Lx16"Wx7–58"DEEP BOWL,COUNTERTOP 18 GAUGE TYPE 304 18–8 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, COVED CORNERS 1–¾" VERTICAL AND HORIZONTAL RADIUS, BOWL AND FAUCET DECK RECESS ⅜" BELOW OUTSIDE EDGE OF SINK, FULLY COATED UNDERSIDE TO DAMPEN SOUND AND PREVENT CONDENSATE, AND FOUR (4) 1–½"ø FAUCET HOLES @ 4" CENTERS. ELKAY OR EQUAL "LUSTERTONE" MODEL No. 1716

SUPPLY 3/8" OD COMPRESSION TYPE FITTINGS WITH CHROME PLATED STOP VALVES.

TRAP 1–1/2" TAILPIECE & ESCUTCHEON CHROME PLATED

FAUCET ADA COMPLIANT, DUAL HANDLE MIXING FAUCET ON DECK MOUNTED ESCUTCHEON. METAL HANDLES, TUBULAR BRASS HI–ARC CONTEMPORARY STYLE SWING SPOUT WITH RESTRICTED FLOW AERATOR FINISHED IN CHROME PLATE. REMOVABLE DIACORE CARTRIDGES AND 150° TURN OF THE HANDLE CONTROLS FROM DRIP–FREE OFF TO FULL ON. RETRACTABLE SPRAY AND HOSE, WITH 4 FAUCET HOLES REQUIRED AND ½" IP CONNECTIONS. FLOW RATE 2.5 GPM MAX. @ 80 PSI. ELKAY OR EQUAL MODEL No. LK2443.

HANDLES CHROME PLATED WRIST BLADE TYPE "AMARILLIS SERIES" AMERICAN STANDARD OR EQUAL MODEL NO. 172H

SINK

FIXTURE– SINGLE COMPARTMENT 24"Lx18"Wx7–5/8"DEEP BOWL,COUNTERTOP 18 GAUGE TYPE 304 18–8 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, COVED CORNERS 1–¾" VERTICAL AND HORIZONTAL RADIUS, BOWL AND FAUCET DECK RECESS ⅜" BELOW OUTSIDE EDGE OF SINK, FULLY COATED UNDERSIDE TO DAMPEN SOUND AND PREVENT CONDENSATE, AND FOUR (4) 1–½"ø FAUCET HOLES @ 4" CENTERS. ELKAY OR EQUAL "LUSTERTONE" MODEL No. 1716

SUPPLY 3/8" OD COMPRESSION TYPE FITTINGS WITH CHROME PLATED STOP VALVES.

TRAP 1–1/2" TAILPIECE & ESCUTCHEON CHROME PLATED

FAUCET ADA COMPLIANT, DUAL HANDLE MIXING FAUCET ON DECK MOUNTED ESCUTCHEON. METAL HANDLES, TUBULAR BRASS HI–ARC CONTEMPORARY STYLE SWING SPOUT WITH RESTRICTED FLOW AERATOR FINISHED IN CHROME PLATE. REMOVABLE DIACORE CARTRIDGES AND 150° TURN OF THE HANDLE CONTROLS FROM DRIP–FREE OFF TO FULL ON. RETRACTABLE SPRAY AND HOSE, WITH 4 FAUCET HOLES REQUIRED AND ½" IP CONNECTIONS. FLOW RATE 2.5 GPM MAX. @ 80 PSI. ELKAY OR EQUAL MODEL No. LK2443.

HANDLES CHROME PLATED WRIST BLADE TYPE "AMARILLIS SERIES" AMERICAN STANDARD OR EQUAL MODEL NO. 172H

4–BURNER RANGE W/ AIR FRY OVEN
MAKE / MODEL: GE / JS760SPSS

BUILT–IN WIFI, POWERED BY SMARTHQ APP – CONNECT, CONTROL AND MANAGE YOUR OVEN FROM ANYWHERE WITH YOUR SMARTPHONE OR TABLET (SELECT FEATURES REQUIRE WIFI CONNECTION) NO–PREHEAT AIR FRY –COOK HEALTHIER, CRISPIER VERSIONS OF YOUR FAVORITE FOODS IN LESS TIME, THANKS TO AN AIR FRYER RIGHT IN YOUR OVEN THAT DOESN'T REQUIRE PREHEATING, A BASKET, OR A SPECIAL TRAY
12–IN/9–IN DUAL ELEMENT – TWO HEATING ELEMENTS IN ONE OFFER FLEXIBILITY CONVECTION – 9–IN/6–IN POWERBOIL ELEMENT – PRODUCES RAPID, POWERFUL HEAT
FIFTH ELEMENT WARMING ZONE – PROVIDES LOW–HEAT CAPABILITY FOR FOODS
SELF–CLEAN WITH STEAM CLEAN OPTION – CLEAN YOUR OVEN THE WAY YOU WANT

SPECIALTY SCHEDULE

CO – 1 FLOOR CLEANOUT

DESCRIPTION: ROUND DECK PLUG, 4–¾"ø FOR A 3" PIPE SIZE & 6"ø FOR A 4" PIPE SIZE ALL NICKEL BRONZE CONSTRUCTION WITH A POLISHED SCORIATED WATER TIGHT COVER WHICH REQUIRES A SPANNER WRENCH FOR REMOVAL . JR SMITH OR EQUAL FIGURE No. 4890C

CO – 2 WALL CLEANOUT

DESCRIPTION: DUCO CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREADED PLUG. CHROME PLATED BRONZE ROUND FRAME AND SECURED FACE OF WALL COVER. JR SMITH OR EQUAL MODEL NO. 4436C

FN – 1 FUNNEL DRAIN

DESCRIPTION 7" DIA. INDIRECT WASTE FUNNEL DRAIN, DUCO CAST IRON WITH ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER, CAULKED 3" PIPE SIZE OUTLET. JR SMITH OR EQUAL MODEL NO. 3811C–DBS.

TRENCH DRAIN

DESCRIPTION 118.14"L x 12.19"W, POWDER COATED WELDED STEEL FRAME SUPPORT SYSTEM WITH CONCRETE ANCHORS, GALVANIZED STEEL FRAME, CAST IRON SLOTTED GRATE. JR. SMITH OR EQUAL MODEL NO. 9960–LC

FS – 1 FLOOR SINK

DESCRIPTION 10" DEEP CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED ONE HALF 12" SQUARE GRATE, ALUM. SEDIMENT BUCKET AND DEEP SEAL TRAP. MANFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 3250–C–12

REMOVED TROUGH CHANGED TO FLOOR SINK

AG–1 AIR GAP FITTING

DESCRIPTION AIRGAP FITTING TO PROVIDE UNOBSTRUCTED SEPARATION BETWEEN THE BACKFLOW PREVENTOR RELIEF VALVE PORT, THE POTABLE WATER SUPPLY & THE DRAINAGE SYSTEM, CONSTRUCTED OF EPOXY COATED CAT IRON WITH A NPT OUTLET. WATTS OR EQUAL MODEL No. 909AGK

AG–2 AIR GAP FITTING INDIRECT WASTE OUTLETS

DESCRIPTION DUCO CAST IRON WITH THREADED OUTLET ONLY, FOR INDIRECT WASTE OUTLETS FROM FIXTURES, FOR PIPE SIZE SEE CONTRACT DRAWINGS. JR SMITH OR EQUAL FIGURE No. 3951T

FAI– 1 FRESH AIR INLET

DESCRIPTION PROTECTIVE COVER FOR FRESH AIR INLET PIPING AT EXTERIOR WALL POLISHED BRONZE WITH PIPE CLAMP VANDAL PROOF SCREWS. JR SMITH OR EQUAL FIGURE NO. 9005

TCV–1 HOT WATER MIXING VALVE

DESCRIPTION: CORROSION RESISTANT WITH A REPLACEABLE THERMOSTATIC SHUTTLE, A PRE–LOADED SPRING ASSEMBLY WHICH SHALL ACT AS AN OVER–TRAVEL MECHANISM. VALVE BODY CAST BRONZE, BRASS RETAINER AND ADJUSTING SCREW, SHUTTLE SHALL BE NORYL, THERMAL ELEMENT SHALL BE BRONZE/STAINLESS STEEL, "O" RINGS BUNA–N, AND STAINLESS STEEL RETURN AND OVER–TRAVEL SPRING. MAXIMUM WORKING PRESSURE 150 PSIG, OPERATING TEMPERATURE RANGE 33°F–180°F. THE HOT WATER INLET TEMPERATURE SHALL BE BETWEEN 120°F AND 180°F. THE COLD WATER INLET TEMPERATURE SHALL BE BETWEEN 41°F AND 70°F. THE MIXED WATER TEMPERATURE SHALL BE 120°F. APOLLO MODEL NO. MVCLF (34CLF SERIES).

FD–1 FLOOR DRAIN

DESCRIPTION DUCO CAST IRON BODY, WITH FLASHING COLLAR AND 6" DIAMETER GRATE ADJUSTABLE STRAINER HEAD, CAULKED OUTLET ROUND TOP AND DEEP SEAL TRAP WITH REMOVABLE SEDIMENT BUCKET. MANUFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 2010–C–A.

WHA – 1 WATER HAMMER ARRESTOR

DESCRIPTION: ALL STAINLESS STEEL SHOCK ABSORBERS, HEAVY DUTY BALANCED EXPANSION BELLOWS, NON–TOXIC HYDRAULIC MINERAL OIL, AND THREADED NPT ENDS. CONTRACTOR SHALL INSTALL SHOCK ABSORBERS AT ALL SOLENOID, REMOTE OPERATED, QUICK CLOSING VALVES, AND INCLUDING ALL LOCATIONS SHOWN ON CONTRACT DRAWINGS. THE P.D.I. FIXTURE UNIT RATINGS SHALL BE RATINGS SHALL BE THE FOLLOWING: A=1–11 F.U.–¾", B=12–32 F.U.–1", C=33–60 F.U.–1", D=61–113 F.U.–1", E=114–154 F.U.–1", & F=155–330 F.U.–1". JR. SMITH OR EQUAL SERIES 5000

NC–1 NEUTRALIZATION KIT

DESCRIPTION: THE CONDENSATE NEUTRALIZATION CAPSULE SHALL BE AXIOM INDUSTRIES LTD. MODEL NC–1. SYSTEM SHALL INCLUDE 1 LITRE (0.26 U.S. GALLON) TRANSPARENT CAPSULE MADE FROM CORROSION RESISTANT MATERIALS WITH TWO 3" FILL/ACCESS OPENINGS, 3"INLET AND OUTLET SCREEN, ¾"–14NPT THREADED INLET, ¾"–14NPT THREADED OUTLET, TWO ¾"MNPT X ¾"FNPT UNIONS, THREE ¾"NPT TO ½"HOSE BARB FITTINGS, ½" BARBED Y FITTING, SIX HOSE CLAMPS, 10 FT OF ½" ID VINYL TUBING, TWO BASE/WALL MOUNTING CLAMPS.

HR – 1 AUTOMATIC HOSE REEL

DESCRIPTION HANNAY HOSE REEL MODEL NUMBER E1516–17–18 WITH ELECTRIC REWIND

ADDED HOSE REEL MODEL NUMBER

WH–3,4 WATER HEATER – ELECTRIC POINT OF USE

DESCRIPTION: UNIT SHALL HAVE COPPER CLAD IMMERSION HEATING ELEMENT(S) WITH BRASS TERMINATIONS FOR INCREASED DURABILITY. EXTERNAL TEMPERATURE CONTROL AND DISPLAY ADJUSTABLE IN 1° INCREMENTS WITH A RANGE OF 80°–140°F. DISPLAY SHALL BE CAPABLE OF DISPLAYING SETPOINT TEMPERATURE IN CELSIUS OR FAHRENHEIT TEMPERATURE SCALES. UNIT SHALL UTILIZE A FLOW METER WITH A 0.3 GPM ACTIVATION POINT AND MANAGE POWER BASED ON ACTUAL FLOW RATE AND INLET TEMPERATURE. VALUES SHOULD BE PROCESSED 60 TIMES PER SECOND. UNIT SHALL BE WQA CERTIFIED LEAD FREE, CERTIFIED TO UL499 AND CSA C22.2 NO.64.
RHEEM MODEL RTEX–08, 0.5 GPM, 208V/1PH/33A

WH–1,2 WATER HEATER – GAS FIRED, TANKLESS

DESCRIPTION: CONDENSING, TANKLESS, BUILT–IN RECIRCULATION, 199,000 BTU/H INPUT, 5.4 GPM @ 70°F TEMPERATURE RISE, 28.7"H x 17.3"W x 14.8" D. RHEEM MODEL RTGH–CM95DVL.

EXPTK– 1 DOMESTIC HOT WATER EXPANSION TANK

DESCRIPTION: THE PRESSURIZATION SYSTEM SHALL INCLUDE AN THERM–X–TROL®.DIAPHRAGM OR BLADDER TYPE EXPANSION TANK WHICH WILL ACCOMMODATE THE EXPANDED WATER OF THE SYSTEM GENERATED WITHIN
THE NORMAL OPERATING TEMPERATURE RANGE, LIMITING THIS PRESSURE INCREASE AT THOSE COMPONENTS IN THE SYSTEM TO THE MAXIMUM ALLOWABLE PRESSURE AT THOSE COMPONENTS. IT SHALL MAINTAIN MINIMUM OPERATING PRESSURE. FURNISH AND INSTALL AS SHOWN ON PLANS A 2.1 GALLON, 10IN. DIAMETER X 10⅜ IN. (HIGH) AMTROL.MODEL ST–5–C. THE EXPANSION TANK SHALL BE WELDED STEEL, CONSTRUCTED, TESTED AND STAMPED IN ACCORDANCEWITH SECTION VIII, DIVISION 1 OF THE ASME CODE FOR A WORKING PRESSURE OF 150 PSIG, FACTORY AIR PRE–CHARGED AND FIELD ADJUSTABLE. ALL WELDS CONFORMING TO ASME SECTION IX. ALL INTERNAL PARTS MUST COMPLY WITH FDA REGULATIONS AND APPROVALS. THE TANK SHALL BE SUPPORTED BY STEEL LEGS OR A BASE (INTEGRAL RING MOUNT) FOR A VERTICAL INSTALLATION. EACH TANK SHALL HAVE A STEEL SHELL AND AN INTERNAL BUTYL/EPDM DIAPHRAGM OR BUTYL BLADDER WITH CODE APPROVALS NSF/ANSI 61 USED TO ISOLATE THE AIR CHARGE FROM FLUID.THE MANUFACTURER SHALL BE AMTROL INC. THE MANUFACTURER SHALL HAVE AT LEAST FIVE YEARS EXPERIENCE IN THE FABRICATION OF BLADDER / DIAPHRAGM–TYPE ASME EXPANSION TANKS.

P–1 HOT WATER CIRCULATING PUMP

DESCRIPTION: HIGH CAPACITY OUTPUT, COMPOSITE HOUSING, MAXIMUM FLUID TEMPERATURE 220 DEG. F, AND MAXIMUM PRESSURE 203 PSI. 120 VOLTS, 60 Hz, SINGLE PHASE, 0.54 AMPS, 1440–3720 RPM. TACO OR EQUAL MODEL No 006e3LC

RPZ–1 – REDUCED PRESSURE ZONE ASSEMBLY

DESCRIPTION: THE ASSEMBLY SHALL CONSIST OF AN INTERNAL PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND SILICONE SEAT DISCS. SEATS AND SEAT DISCS SHALL BE REPLACEABLE IN BOTH CHECK MODULES AND THE RELIEF VALVE. THERE SHALL BE NO THREADS OR SCREWS IN THE WATERWAY EXPOSED TO LINE FLUIDS. SERVICE OF ALL INTERNAL COMPONENTS SHALL BE THROUGH A SINGLE ACCESS COVER SECURED WITH STAINLESS STEEL BOLTS. BODY AND SHUTOFFS SHALL BE CONSTRUCTED USING LEAD FREE* CAST COPPER SILICON ALLOY MATERIALS. LEAD FREE* REDUCED PRESSURE ZONE ASSEMBLY SHALL COMPLY WITH STATE
CODES AND STANDARDS, WHERE APPLICABLE, REQUIRING REDUCED LEAD CONTENT.
THE ASSEMBLY SHALL ALSO INCLUDE TWO RESILIENT SEATED ISOLATION VALVES,
FOUR RESILIENT SEATED TEST COCKS AND AN AIR GAP DRAIN FITTING. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF: USC; ASSE STD. 1013; AWWA STD. C511; CSA B64.4.
SHALL BE A WATTS SERIES LF009 – 1"

FPWH FROST PROOF WALL HYDRANT

DESCRIPTION: KEY OPERATED FROST PROOF, BRONZE NICKEL PLATED, QUARTER TURN NON–FREEZE HYDRANT WITH HOSE CONNECTION, VACUUM BREAKER, ¾" NPT INLET, "T" HANDLE KEY, & STAINLESS STEEL BOX WITH FULL 180° COVER OPENING. JR. SMITH OR EQUAL FIGURE No. 5509QT

HB –1 DOMESTIC WATER HOSE BIBB

DESCRIPTION: 3/4" MALE NPT, HEX SHOULDER TEE HANDLE, WITH SEPARATE NON REMOVABLE VACUUM BREAKER, IP INLET HOSE END, CAST BRASS. WATTS OR EQUAL MODEL NO. SC–6. HOSE CONNECTION VACUUM BREAKER WATTS OR EQUAL MODEL NO 8B.

SPOS–1 ELEVATOR SUMP PUMP

DESCRIPTION: 1/3 HP, 115V, SINGLE–PHASE, 5.2 FULL LOAD AMPS, THERMAL OVERLOAD TEMP 221°F, 1½" DISCHARGE. 10' STANDARD CORD LENGTH – UP TO 50'. 9.5"W x 6.5"L OIL DETECTOR WITH CONTROL PANEL & REMOTE ALARM LIBERTY PUMP, MODEL "ELV250 SERIES WITH OILTECTOR"

RD – 1 ROOF DRAIN & SECONDARY DRAIN

DESCRIPTION DURA COAT CAST IRON DEEP SUMP BODY WITH COMBINATION MEMBRANE FLASHING CLAMP AND GRAVEL STOP, DOUBLE TOP SET DECK PLATE, AND LOW PROFILE CAST IRON DOME. ZURN FIGURE No. Z164

SCUPPER

DESCRIPTION DOWNSPOUT NOZZLE FLANGED OUTLET, ZURN MODEL# Z199

DATE: ISSUE

SEAL:



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TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN NY, 10983

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FIXTURE & SPECIALTY SCHEDULES

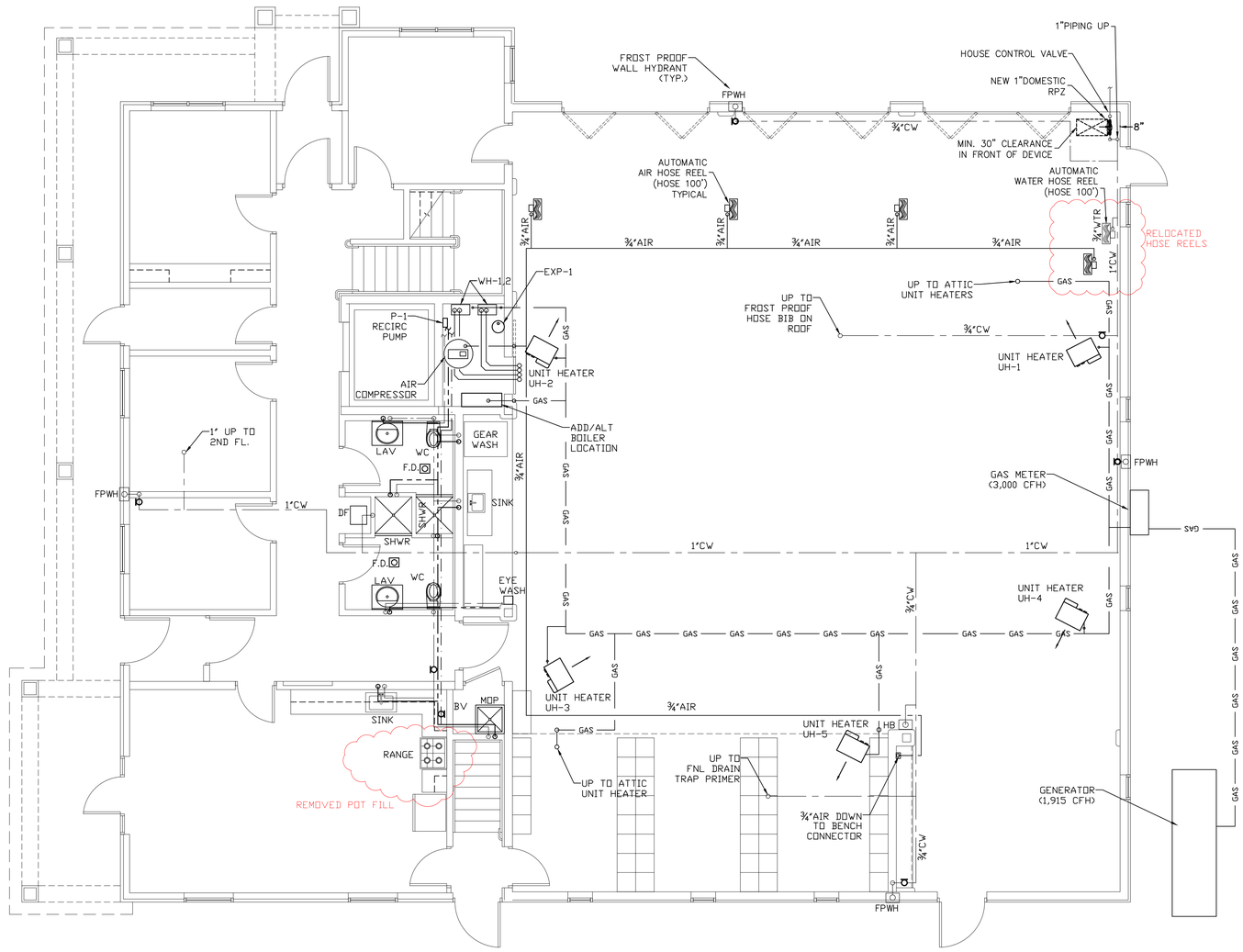
PROJECT #: 21–08

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CAD FILE: 21–08/P: /BID

DRAWING#:

P–2



SYMBOL LEGEND

	COLD WATER LINE		GAS VALVE & SEDIMENT TRAP
	HOT WATER LINE (120°)		THERMOMETER
GAS	NATURAL GAS PIPING	HB	HOSE BIB
	ISOLATION VALVE	FPWH	FROST PROOF WALL HYDRANT
WHA-1	WATER HAMMER ARRESTOR	BV	BALANCING VALVE

PLAN NOTES:
1. FLEXIBLE WATER CONNECTORS EXPOSED TO CONTINUOUS PRESSURE SHALL CONFORM TO ASME A112.18.6/CSA B125.6. ACCESS SHALL BE PROVIDED TO ALL FLEXIBLE CONNECTORS.
2. PROVIDE VALVED DRAINS FOR ANY TRAPPED DOMESTIC WATER MAIN PIPING.
3. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING IN ACCORDANCE WITH TABLE C403.11.3 OF THE NYSECCC
4. PROVIDE BRANCH ISOLATION VALVES AT MAINS.
5. PRIOR TO ACCEPTANCE AND INITIAL OPERATION, PIPING SHALL BE VISUALLY INSPECTED AND PRESSURE TESTED IN ACCORDANCE WITH SECTION 406 OF THE NYSFGC.
6. SEE RISER DIAGRAMS FOR PIPE SIZING NOT SHOWN ON PLAN.
7. ALL GAS PIPING AND HOT/COLD WATER SUPPLY PIPING IS TO BE RUN WITHIN CEILING SPACE OR CONCEALED. DROPS TO EACH FIXTURE SHALL BE WITHIN WALLS OR OTHER LOCATION SO AS TO REMAIN CONCEALED.
8. WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE PRODUCT SPECIFICATIONS.
9. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPC
10. ALL FIXTURE WATER SUPPLY PIPES SHALL MEET THE MINIMUM SIZE REQUIREMENTS OF TABLE 604.5 OF THE NYSPC.
11. ALL GAS PIPING TO BE SCHEDULE 40 METALLIC PIPE.
12. THE FLOW VELOCITY OF THE WATER DISTRIBUTION SYSTEM SHALL BE CONTROLLED TO REDUCE THE POSSIBILITY OF WATER HAMMER. A WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
13. PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL HAVE NOT MORE THAN 8-PERCENT LEAD CONTENT.
14. PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25 PERCENT OR LESS.
15. WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A PRESSURE RATING OF NOT LESS THAN 100 PSI AT 180°F.
16. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 605.5. PIPE FITTINGS UTILIZED IN WATER SUPPLY SYSTEMS SHALL ALSO COMPLY WITH NSF 61. DUCTILE AND GRAY IRON PIPE AND PIPE FITTINGS UTILIZED IN WATER SERVICE PIPING SYSTEMS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
17. VALVES SHALL BE COMPATIBLE WITH THE TYPE OF PIPING MATERIAL INSTALLED IN THE SYSTEM. VALVES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.7 OR SHALL BE APPROVED. VALVES INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF 61.
18. MANUFACTURED PIPE NIPPLES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.8 OF THE NYSPC.
19. THE FOLLOWING TYPES OF JOINTS ARE PROHIBITED: CEMENT OR CONCRETE JOINTS, JOINTS MADE WITH FITTINGS NOT APPROVED FOR THE SPECIFIC INSTALLATION, SOLVENT-CEMENT JOINTS BETWEEN DIFFERENT TYPES OF PLASTIC PIPE, AND SADDLE-TYPE FITTINGS.
20. SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE, ON THE WATER SUPPLY PIPE TO EACH SILLCOCK, ON THE WATER SUPPLY PIPE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.
21. FIXTURE FITTINGS, FAUCETS AND DIVERTERS SHALL BE INSTALLED AND ADJUSTED SO THAT THE FLOW OF HOT WATER FROM THE FITTINGS CORRESPONDS TO THE LEFT-HAND SIDE OF THE FIXTURE FITTING.
22. ACCESS SHALL BE PROVIDED TO ALL FULLOPEN VALVES AND SHUTOFF VALVES.
23. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM OF 110°F (43°C).
24. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE NYSPC.
25. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS INSTALLED. TRAP PRIMER SHALL BE LOCATED WITHIN AN ACCESSIBLE AREA FOR SERVICING.
26. INSTALL WALL HUNG WATER HEATERS, WATER HEATER CONTROLS AND ALL PIPING CONNECTIONS. ELECTRICIAN TO PROVIDE LINE VOLTAGE POWER ONLY.
27. PROVIDE VENTING TO ROOF TERMINATIONS PER MANUFACTURERS REQUIREMENTS.

FIRST FLOOR DOMESTIC WATER & GAS PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE

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FIRST FLOOR
DOMESTIC WATER & GAS PLAN

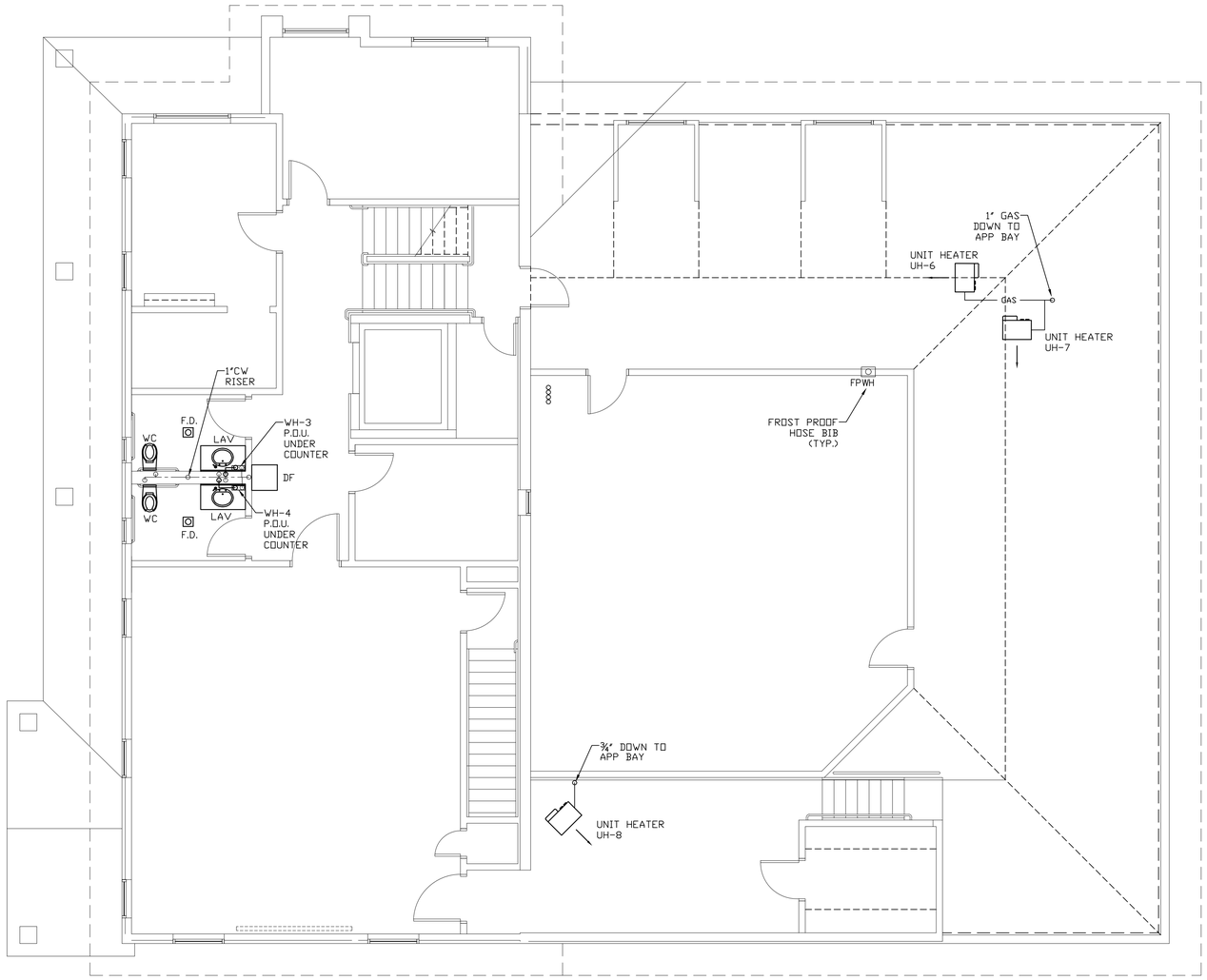
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

P-3



SYMBOL LEGEND

	COLD WATER LINE		GAS VALVE & SEDIMENT TRAP
	HOT WATER LINE (120°)		THERMOMETER
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	ISOLATION VALVE	FPWH	FROST PROOF WALL HYDRANT
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23. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM OF 110°F (43°C).
24. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE NYSPC.

SECOND FLOOR DOMESTIC WATER & GAS PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE

SEAL:

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SECOND FLOOR
DOMESTIC WATER & GAS PLAN

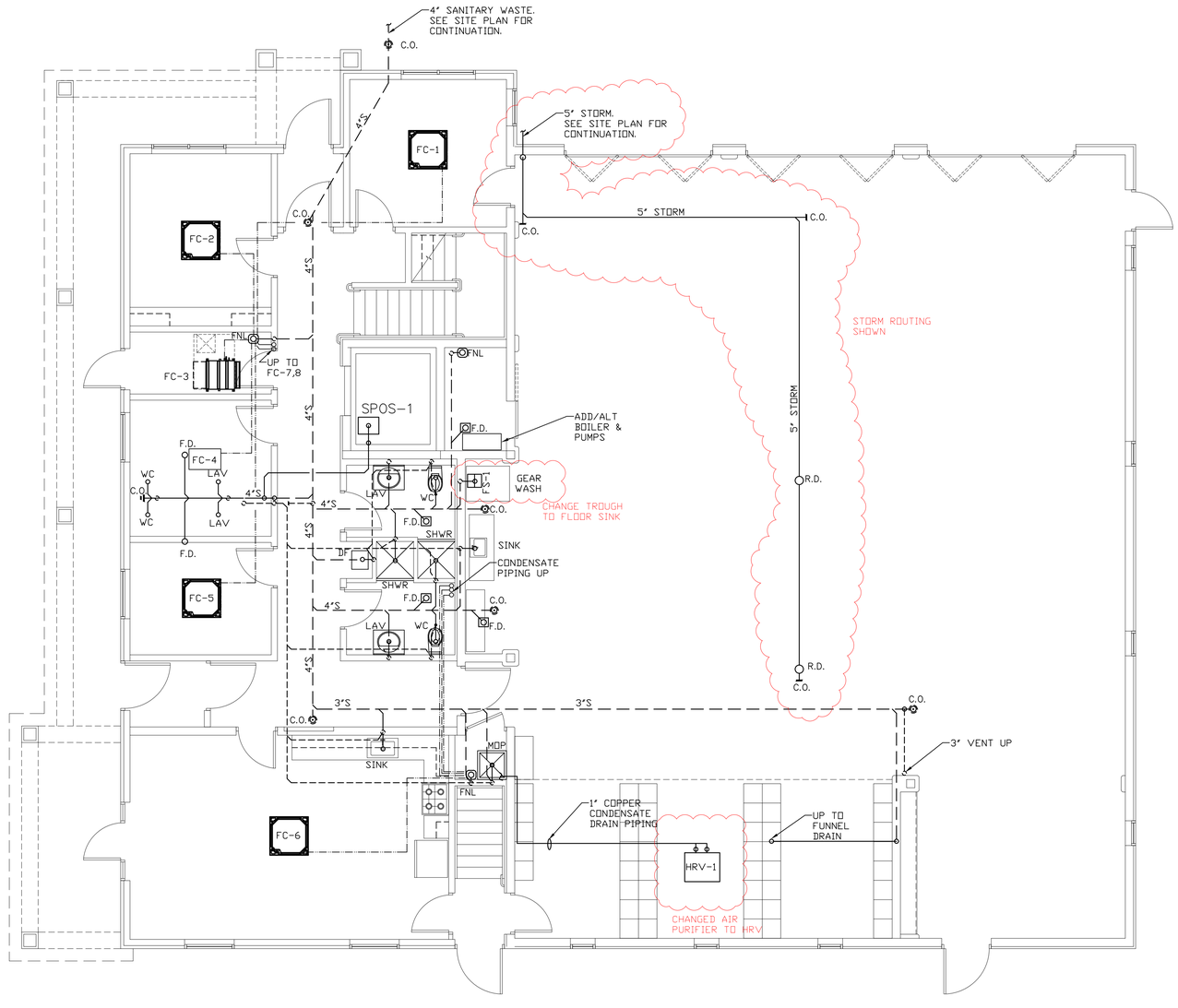
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

P-4



SYMBOL LEGEND

4"S		SANITARY PIPING
4"S		SANITARY PIPING BELOW GRADE
		SANITARY VENT PIPING
4"ST		STORM PIPING
		CONDENSATE PIPING
	C.O.	CLEAN OUT ABOVE GROUND
	C.O.	CLEAN OUT W/DECK PLATE
	W.C.O.	WALL CLEAN OUT
FD	F.D.	FLOOR DRAIN
FNL	FNL	FUNNEL DRAIN
	R.D.	ROOF DRAIN

PLAN NOTES:
1. CLEANOUTS SHALL BE PROVIDED AND SIZED ACCORDING TO SECTION 708 OD THE NYSPC.
2. FIXTURE VENTING CONNECTIONS SHALL BE AS PER SECTION 905 OF THE NYSPC.
3. PROVIDE A SLEEVE FOR PIPING PROTECTION. TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
4. ALL BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
5. ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.1 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
6. CONNECT ALL EQUIPMENT AND FIXTURES AS PER THE MANUFACTURER'S REQUIREMENTS AND STATE PLUMBING CODES.
7. SEE RISER DIAGRAM FOR PIPE SIZING NOT SHOWN ON PLAN.
8. THE SANITARY DRAINAGE SYSTEM IS TO BE TESTED AS PER SECTION 701.6 OF THE NYSPC.
9. PROVIDE NEUTRALIZATION KITS FOR ALL GAS-FIRED EQUIPMENT CONDENSATE DISPOSAL.
10. ALL CONDENSATE PIPING SHALL BE FULLY INSULATED.
11. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPC.
12. AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.2.1 OF THE NYSPC.
13. ALL FLOOR DRAINS AND FUNNEL DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.
14. ALL BELOW-GRADE SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.2 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
15. EXCAVATED TRENCHES SHALL BE PROVIDED WITH CONTINUOUS LOAD-BEARING SUPPORT BETWEEN JOINTS.
16. IF TRENCH BOTTOMS DO NOT FORM THE BED FOR THE PIPE, TRENCHES SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND OR FINE GRAVEL PLACED IN LAYERS NOT GREATER THAN 6 INCHES IN DEPTH AND SUCH BACKFILL SHALL BE COMPACTED AFTER EACH PLACEMENT.
17. IF ROCK IS ENCOUNTERED WHILE TRENCHING, THE ROCKS SHALL BE REMOVED TO NOT LESS THAN 3 INCHES BELOW THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE, AND SHE TRENCH SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND TAMPED IN PLACE. THE PIPE, INCLUDING THE JOINTS, SHALL NOT REST ON ROCK.
18. IF SOFT MATERIALS OF POOR LOAD BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY OVEREXCAVATING NOT LESS THAN TWO PIPE DIAMETERS AND BACKFILLING TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE.
19. IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.
20. ALL UNDER SLAB ROUGHING TO BE SUPPORTED BY THE STRUCTURAL SLABS. SLABS SHALL BE 10" THICK ON THE OCCUPIED SIDE, 12" THICK ON THE APPARATUS SIDE. COORDINATE WITH G.C.

1. ALL CONDENSATE PIPING SHALL BE COPPER.
2. CONDENSATE PIPING FOR FC-7&8 TO FUNNEL IN DELIVERY ROOM.

ADDED NOTES.

FIRST FLOOR SANITARY PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE

SEAL:

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FIRST FLOOR
SANITARY PLAN

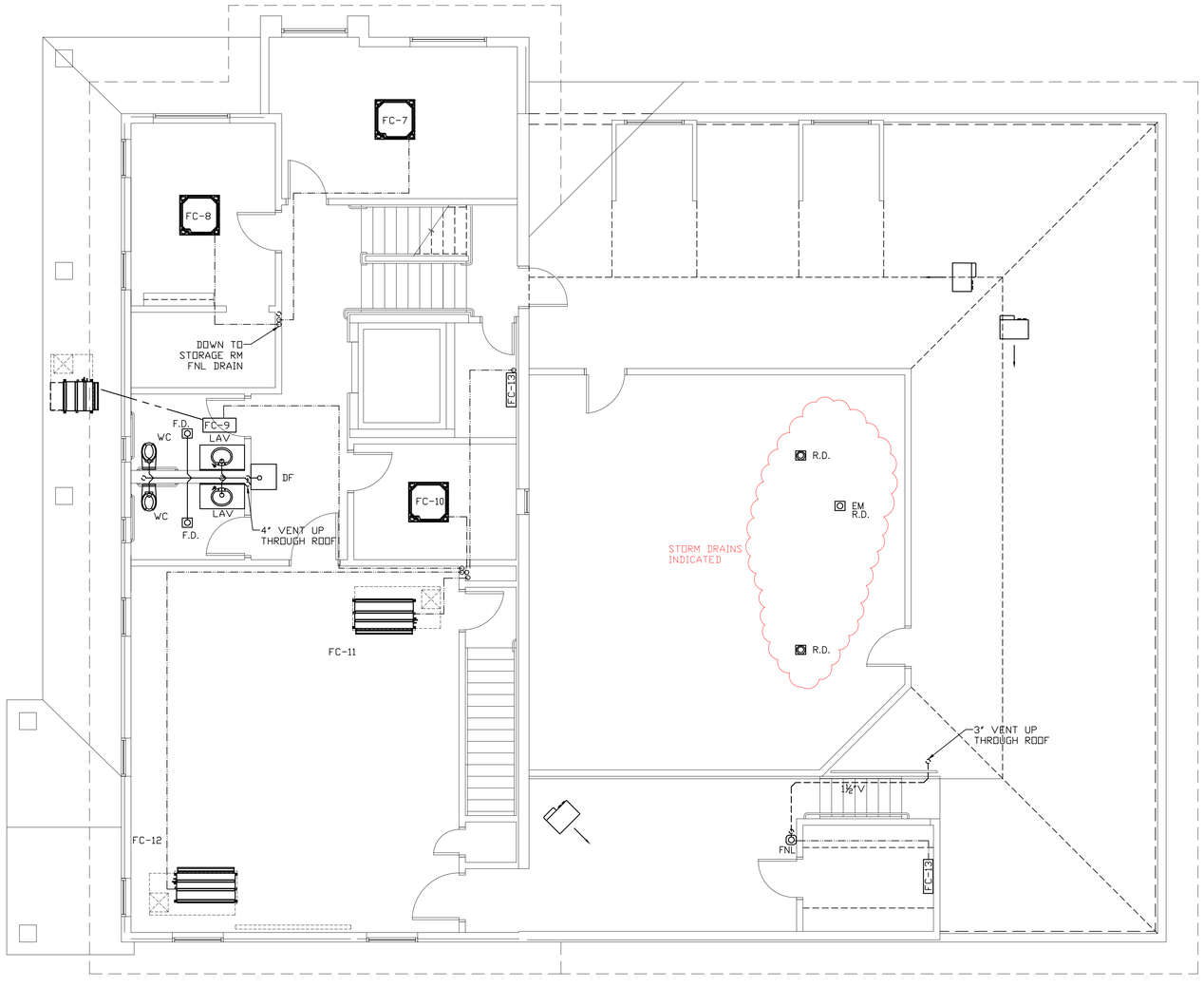
PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P: /BID

DRAWING#:

P-5



SYMBOL LEGEND

4"S		SANITARY PIPING
4"S		SANITARY PIPING BELOW GRADE
		SANITARY VENT PIPING
4"ST		STORM PIPING
		CONDENSATE PIPING
	C.O.	CLEAN OUT ABOVE GROUND
	C.O.	CLEAN OUT W/DECK PLATE
	W.C.O.	WALL CLEAN OUT
FD	F.D.	FLOOR DRAIN
FNL	FNL	FUNNEL DRAIN
	R.D.	ROOF DRAIN

PLAN NOTES:
1. CLEANOUTS SHALL BE PROVIDED AND SIZED ACCORDING TO SECTION 708 OD THE NYSPC.
2. FIXTURE VENTING CONNECTIONS SHALL BE AS PER SECTION 905 OF THE NYSPC.
3. PROVIDE A SLEEVE FOR PIPING PROTECTION, TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
4. ALL BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
5. ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.1 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
6. CONNECT ALL EQUIPMENT AND FIXTURES AS PER THE MANUFACTURER'S REQUIREMENTS AND STATE PLUMBING CODES.
7. SEE RISER DIAGRAM FOR PIPE SIZING NOT SHOWN ON PLAN.
8. THE SANITARY DRAINAGE SYSTEM IS TO BE TESTED AS PER SECTION 701.6 OF THE NYSPC.
9. PROVIDE NEUTRALIZATION KITS FOR ALL GAS-FIRED EQUIPMENT CONDENSATE DISPOSAL.
10. ALL CONDENSATE PIPING SHALL BE FULLY INSULATED.
11. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPC.
12. AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.2.1 OF THE NYSPC.
13. ALL FLOOR DRAINS AND FUNNEL DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.
14. ALL BELOW-GRADE SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.2 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
15. EXCAVATED TRENCHES SHALL BE PROVIDED WITH CONTINUOUS LOAD-BEARING SUPPORT BETWEEN JOINTS.
16. IF TRENCH BOTTOMS DO NOT FORM THE BED FOR THE PIPE, TRENCHES SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND OR FINE GRAVEL PLACED IN LAYERS NOT GREATER THAN 6 INCHES IN DEPTH AND SUCH BACKFILL SHALL BE COMPACTED AFTER EACH PLACEMENT.
17. IF ROCK IS ENCOUNTERED WHILE TRENCHING, THE ROCKS SHALL BE REMOVED TO NOT LESS THAN 3 INCHES BELOW THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE, AND SHE TRENCH SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND TAMPED IN PLACE. THE PIPE, INCLUDING THE JOINTS, SHALL NOT REST ON ROCK.
18. IF SOFT MATERIALS OF POOR LOAD BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY OVEREXCAVATING NOT LESS THAN TWO PIPE DIAMETERS AND BACKFILLING TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE.
19. IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.

SECOND FLOOR SANITARY PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE

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SECOND FLOOR SANITARY PLAN

PROJECT #: 21-08

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P-6



SYMBOL LEGEND

	COLD WATER LINE		THERMOMETER
	HOT WATER LINE (120°)	BV	BALANCING VALVE
	HOT WATER RECIRC (120°)		ISOLATION VALVE
	PRESSURE REDUCING VALVE	WHA-1	WATER HAMMER ARRESTOR
			CHECK VALVE

DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE

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DOMESTIC WATER RISER DIAGRAM

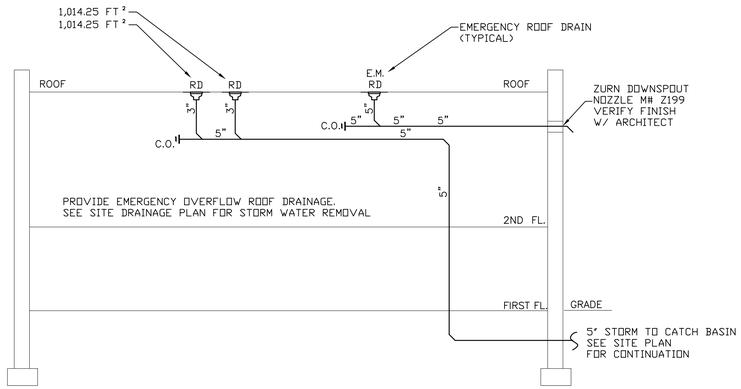
PROJECT #: 21-08

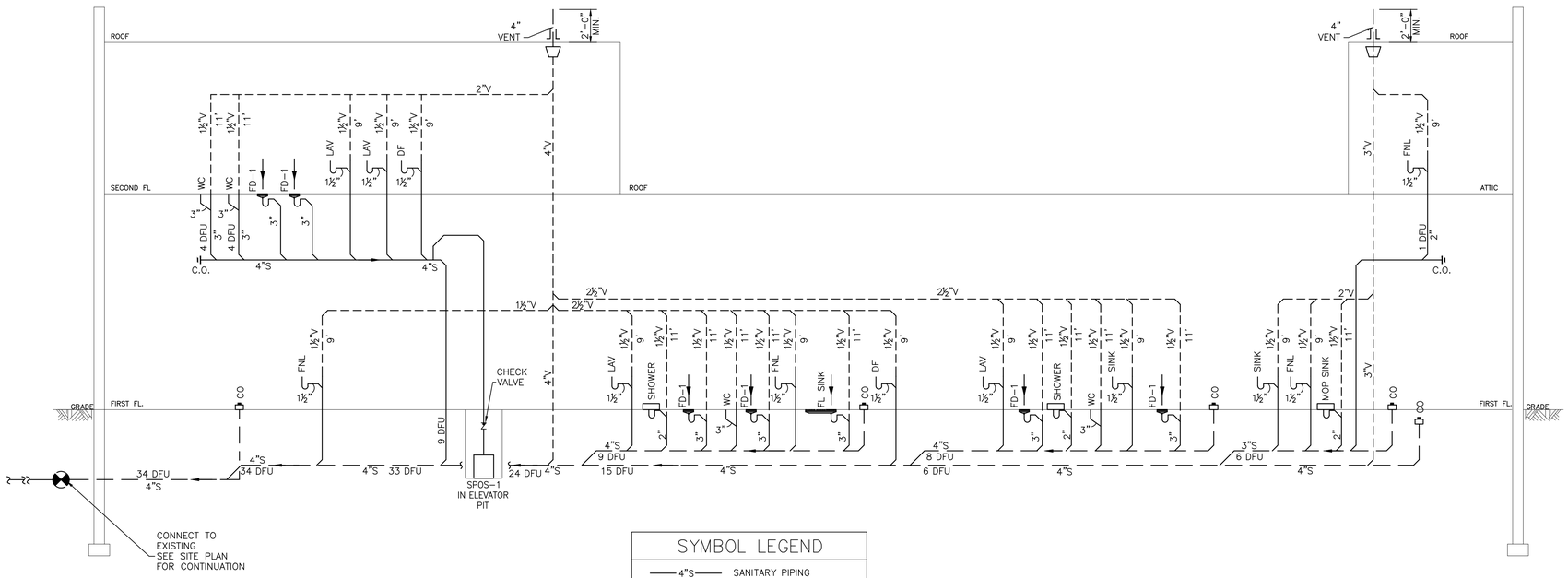
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P-7





SYMBOL LEGEND

4"S	SANITARY PIPING
4"S	SANITARY PIPING BELOW GRADE
	SANITARY VENT PIPING
4"GW	GREASE WASTE PIPING
	CONDENSATE PIPING
C.O.	CLEAN OUT ABOVE GROUND
C.O.	CLEAN OUT W/DECK PLATE
W.C.O.	WALL CLEAN OUT
F.D.	FLOOR DRAIN
FNL	FUNNEL DRAIN
R.D.	ROOF DRAIN

SANITARY RISER DIAGRAM

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SANITARY RISER DIAGRAM

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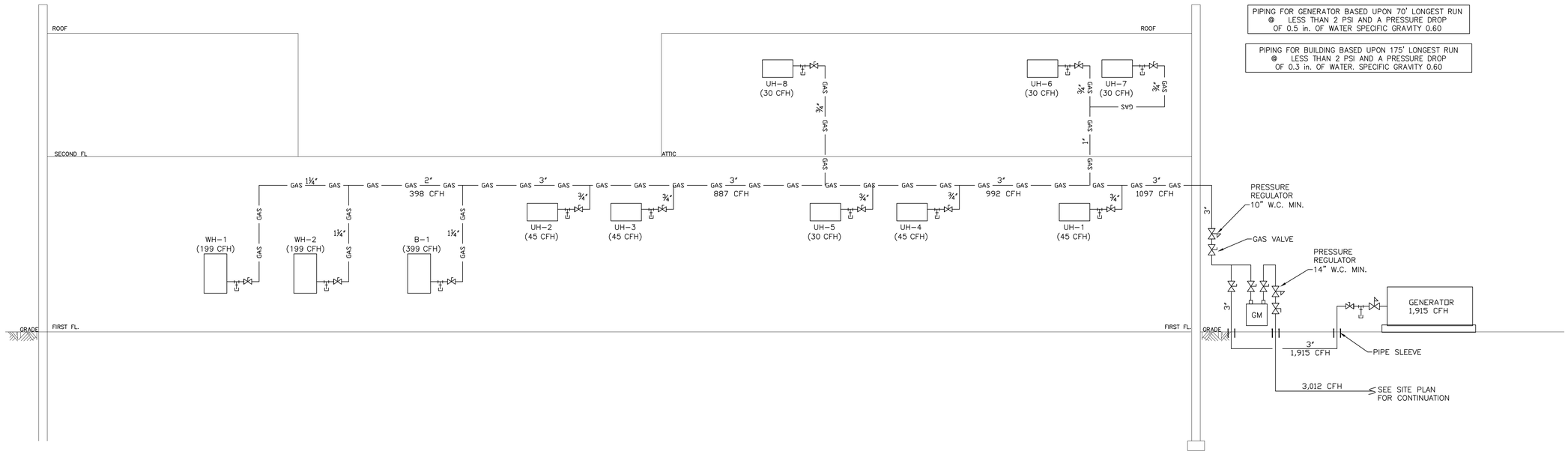
P-8

GAS PIPING NOTES:
1. THE BUILDING SHALL NOT BE WEAKENED BY THE INSTALLATION OF ANY GAS PIPING. IN THE PROCESS OF INSTALLING OR REPAIRING ANY GAS PIPING, THE FINISHED FLOORS, WALLS, CEILINGS, TILE WORK OR ANY OTHER PART OF THE BUILDING OR PREMISES WHICH IS REQUIRED TO BE CHANGED OR REPLACED SHALL BE LEFT IN A SAFE STRUCTURAL CONDITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
2. PENETRATIONS OF FLOOR/CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.
3. CUTS, NOTCHES AND HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUED-LAMINATED MEMBERS AND I-JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURER'S RECOMMENDATIONS OR WHERE THE EFFECTS OF SUCH ALTERATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER BY A REGISTERED DESIGN PROFESSIONAL.
4. NOTCHING AT THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES (51 MM) OF THE TOP AND BOTTOM OF THE JOIST AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. NOTCHES IN THE TOP OR BOTTOM OF THE JOIST SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN.
5. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONLOAD-BEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION.
6. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD DEPTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE DEPTH OF THE STUD ARE PERMITTED IN NONLOAD-BEARING PARTITIONS OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH (15.9 MM) TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
7. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, DRILLED, NOTCHED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN CONCURRENCE AND APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G., HVAC EQUIPMENT, WATER HEATERS) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.
8. FLANGES AND LIPS OF LOAD-BEARING, COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE CUT OR NOTCHED. HOLES IN WEBS OF LOAD-BEARING, COLD-FORMED STEEL FRAMING MEMBERS SHALL BE PERMITTED ALONG THE CENTERLINE OF THE WEB OF THE FRAMING MEMBER AND SHALL NOT EXCEED THE DIMENSIONAL LIMITATIONS, PENETRATION SPACING OR MINIMUM HOLE EDGE DISTANCE AS PRESCRIBED BY A REGISTERED DESIGN PROFESSIONAL. CUTTING, NOTCHING AND BORING HOLES OF STEEL FLOOR/ROOF DECKING SHALL BE AS PRESCRIBED BY A REGISTERED DESIGN PROFESSIONAL.
9. FLANGES AND LIPS OF NONSTRUCTURAL COLD-FORMED STEEL WALL STUDS SHALL BE PERMITTED ALONG THE CENTERLINE OF THE WEB OF THE FRAMING MEMBER, SHALL NOT EXCEED 11/2 INCHES (38 MM) IN WIDTH OR 4 INCHES (102 MM) IN LENGTH, AND THE HOLES SHALL NOT BE SPACED LESS THAN 24 INCHES (610 MM) CENTER TO CENTER FROM ANOTHER HOLE OR LESS THAN 10 INCHES (254 MM) FROM THE BEARING END.
10. WHERE AN ADDITIONAL APPLIANCE IS TO BE SERVED, THE EXISTING PIPING SHALL BE CHECKED TO DETERMINE IF IT HAS ADEQUATE CAPACITY FOR ALL APPLIANCES SERVED. IF INADEQUATE, THE EXISTING SYSTEM SHALL BE ENLARGED AS REQUIRED OR SEPARATE PIPING OF ADEQUATE CAPACITY SHALL BE PROVIDED.
11. FOR OTHER THAN STEEL PIPE, EXPOSED PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET (1524 MM). THE MARKING SHALL NOT BE REQUIRED ON PIPE LOCATED IN THE SAME ROOM AS THE APPLIANCE SERVED.
12. ALL GAS PIPE MATERIAL SHALL BE SCHEDULE 40 METALLIC PIPE.
13. ALL EXTERIOR GAS PIPING SHALL BE GALVANIZED.
14. PIPE AND FITTINGS SHALL BE CLEAR AND FREE FROM CUTTING BURRS AND DEFECTS IN STRUCTURE OR THREADING, AND SHALL BE THOROUGHLY BRUSHED, AND CHIP AND SCALE BLOWN. DEFECTS IN PIPE AND FITTINGS SHALL NOT BE REPAIRED. DEFECTIVE PIPE AND FITTINGS SHALL BE REPLACED.
15. WHERE IN CONTACT WITH MATERIAL OR ATMOSPHERE EXERTING A CORROSIVE ACTION, METALLIC PIPING AND FITTINGS COATED WITH A CORROSION-RESISTANT MATERIAL SHALL BE USED. EXTERNAL COATINGS OR LININGS USED ON PIPING OR COMPONENTS SHALL NOT BE CONSIDERED AS ADDING STRENGTH.
16. PIPE WITH THREADS THAT ARE STRIPPED, CHIPPED, CORRODED OR OTHERWISE DAMAGED SHALL NOT BE USED. WHERE A WELD OPENS DURING THE OPERATION OF CUTTING OR THREADING, THAT PORTION OF THE PIPE SHALL NOT BE USED.
17. THE TYPE OF PIPING JOINT USED SHALL BE SUITABLE FOR THE PRESSURE-TEMPERATURE CONDITIONS AND SHALL BE SELECTED GIVING CONSIDERATION TO JOINT TIGHTNESS AND MECHANICAL STRENGTH UNDER THE SERVICE CONDITIONS. THE JOINT SHALL BE ABLE TO SUSTAIN THE MAXIMUM END FORCE CAUSED BY THE INTERNAL PRESSURE AND ANY ADDITIONAL FORCES CAUSED BY TEMPERATURE EXPANSION OR CONTRACTION, VIBRATION, FATIGUE OR THE WEIGHT OF THE PIPE AND ITS CONTENTS.
18. MATERIAL FOR GASKETS SHALL BE CAPABLE OF WITHSTANDING THE DESIGN TEMPERATURE AND PRESSURE OF THE PIPING SYSTEM, AND THE CHEMICAL CONSTITUENTS OF THE GAS BEING CONDUCTED, WITHOUT CHANGE TO ITS CHEMICAL AND PHYSICAL PROPERTIES. THE EFFECTS OF FIRE EXPOSURE TO THE JOINT SHALL BE CONSIDERED IN CHOOSING MATERIAL. ACCEPTABLE MATERIALS INCLUDE METAL (PLAIN OR CORRUGATED), COMPOSITION, ALUMINUM "O"RINGS, SPIRAL WOUND METAL GASKETS, RUBBER-FACED PHENOLIC AND ELASTOMERIC. WHERE A FLANGED JOINT IS OPENED, THE GASKET SHALL BE REPLACED. FULL-FACE FLANGE GASKETS SHALL BE USED WITH ALL NONSTEEL FLANGES.
19. PIPING SHALL NOT BE INSTALLED IN OR THROUGH A DUCTED SUPPLY, RETURN OR EXHAUST DUCT, OR A TRASH OR CLOTHES CHUTE, CHIMNEY OR GAS VENT, VENTILATING DUCT, DUMBWAITER OR ELEVATOR SHAFT. PIPING INSTALLED DOWNSTREAM OF THE POINT OF DELIVERY SHALL NOT EXTEND THROUGH ANY TOWNHOUSE UNIT OTHER THAN THE UNIT SERVED BY SUCH PIPING.
20. CONCEALED PIPING SHALL NOT BE LOCATED IN SOLID PARTITIONS AND SOLID WALLS, UNLESS INSTALLED IN A VENTILATED CHASE OR CASING.
21. UNDERGROUND PIPING, WHERE INSTALLED BELOW GRADE THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE. THE ANNULAR SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED.
22. PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3-1/2 INCHES (89 MM) ABOVE GROUND AND WHERE INSTALLED ACROSS ROOF SURFACES, SHALL BE ELEVATED NOT LESS THAN 3-1/2 INCHES (89 MM) ABOVE THE ROOF SURFACE. PIPING INSTALLED ABOVE GROUND, OUTDOORS, AND INSTALLED ACROSS THE SURFACE OF ROOFS SHALL BE SECURELY SUPPORTED AND LOCATED WHERE IT WILL BE PROTECTED FROM PHYSICAL DAMAGE. WHERE PASSING THROUGH AN OUTSIDE WALL, THE PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL. WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE SEALED.
23. METALLIC PIPE EXPOSED TO CORROSIVE ACTION, SUCH AS SOIL CONDITION OR MOISTURE, SHALL BE PROTECTED IN AN APPROVED MANNER. ZINC COATINGS (GALVANIZING) SHALL NOT BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING UNDERGROUND. FERROUS METAL EXPOSED IN EXTERIOR LOCATIONS SHALL BE PROTECTED FROM CORROSION. ZINC COATINGS (GALVANIZING) SHALL BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING EXPOSED IN EXTERIOR LOCATIONS. WHERE DISSIMILAR METALS ARE JOINED UNDERGROUND, AN INSULATING COUPLING OR FITTING SHALL BE USED. PIPING SHALL NOT BE LAID IN CONTACT WITH CINDERS.
24. PRIOR TO ACCEPTANCE AND INITIAL OPERATION, ALL PIPING INSTALLATIONS SHALL BE INSPECTED AND PRESSURE TESTED TO DETERMINE THAT THE MATERIALS, DESIGN, FABRICATION, AND INSTALLATION PRACTICES COMPLY WITH THE REQUIREMENTS OF THE 2020 NYSFGC.

GENERAL NOTES:
1. PROVIDE NEW SERVICE FROM STREET WITH NEW GAS METER, PRV'S SHUTOFF VALVES, MOUNTING PAD. INSTALLATION SHALL BE AS PER REQUIREMENTS OF THE 2020 FUEL GAS CODE OF NYS, DOB AND LOCAL NATURAL GAS PROVIDER. INCLUDE ISOLATION VALVES AND SUPPORT TO EQUIPMENT.
2. PLUMBING CONTRACTOR TO VERIFY WITH ARCHITECT THE PRESSURE REQUIREMENTS FOR ALL APPROVED GAS-FIRED EQUIPMENT TO BE UTILIZED WITHIN THE BUILDING.
3. PLUMBING CONTRACTOR TO VERIFY WITH ELECTRICAL CONTRACTOR PRESSURE REQUIREMENTS FOR GENERATOR PRIOR TO SUBMISSION TO GAS SERVICE PROVIDER.

PIPING FOR GENERATOR BASED UPON 70' LONGEST RUN @ LESS THAN 2 PSI AND A PRESSURE DROP OF 0.5 in. OF WATER SPECIFIC GRAVITY 0.60

PIPING FOR BUILDING BASED UPON 175' LONGEST RUN @ LESS THAN 2 PSI AND A PRESSURE DROP OF 0.3 in. OF WATER. SPECIFIC GRAVITY 0.60



NATURAL GAS RISER DIAGRAM

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NATURAL GAS RISER DIAGRAM

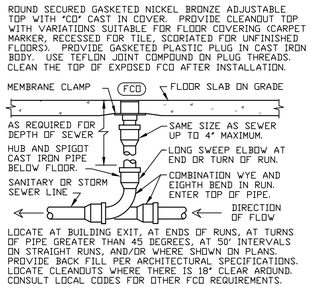
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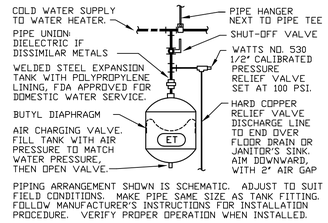
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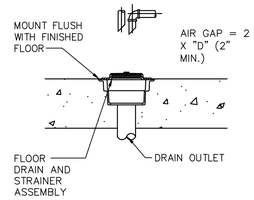
1 FLOOR CLEANOUT

NOT TO SCALE



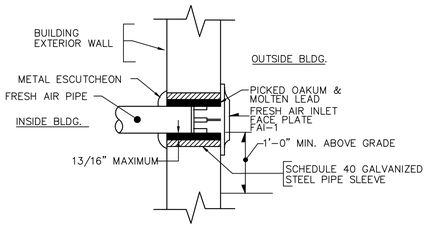
2 EXPANSION TANK

NOT TO SCALE



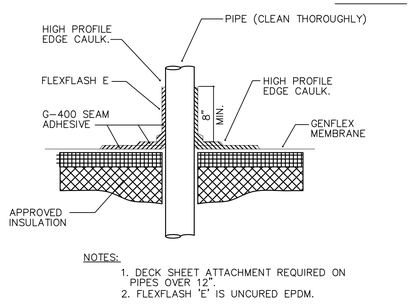
3 FLOOR DRAIN DETAILS

NOT TO SCALE



4 FRESH AIR INLET

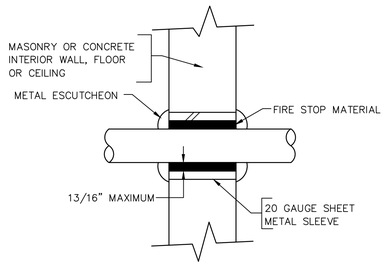
NOT TO SCALE



NOTES:
1. DECK SHEET ATTACHMENT REQUIRED ON PIPES OVER 12".
2. FLEXFLASH 'E' IS UNCURED EPDM.

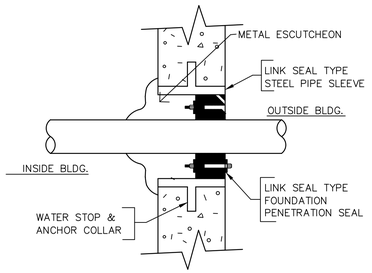
5 PIPE PENETRATION THROUGH ROOF

NOT TO SCALE



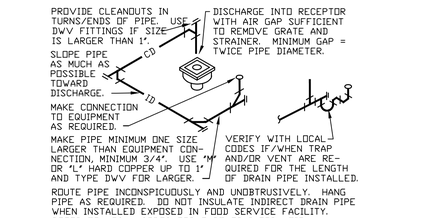
6 PIPE PENETRATION INTERIOR WALL

NOT TO SCALE



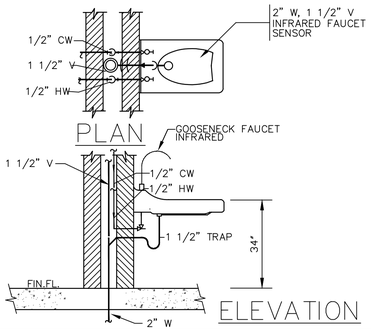
7 PIPE PENETRATION FOUNDATION WALL

NOT TO SCALE



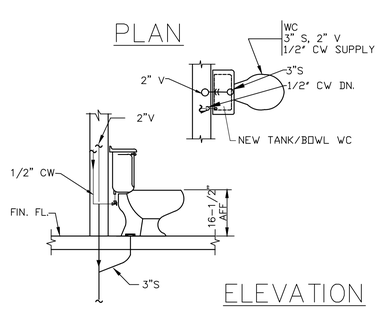
8 CONDENSATE DRAIN

NOT TO SCALE



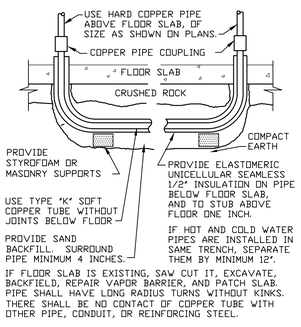
9 ADA WALL MOUNTED LAVATORY

NOT TO SCALE



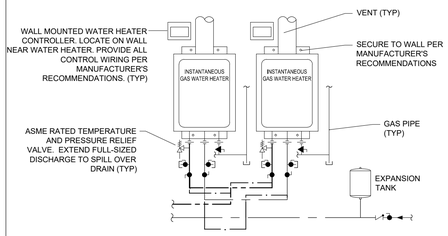
10 ADA FLOOR MOUNTED WC

NOT TO SCALE



11 WATER PIPE UNDER SLAB

NOT TO SCALE



12 WATER HEATER

NOT TO SCALE

DETAILS SHOWN REFLECT A TYPICAL ORIENTATION AND VIEW FOR THE PLUMBING FIXTURES. FOR ORIENTATION SEE PLUMBING PLANS. THE INTENT OF THE DETAILS IS TO CLARIFY PROPER CONNECTION OF PLUMBING FIXTURES, AND EQUIPMENT.

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PLUMBING DETAILS

PROJECT #: 21-08

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2020 PLUMBING CODE OF NEW YORK STATE

PLUMBING CONTRACT NOTES

1. ALL PLUMBING WORK PERFORMED AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE 2020 NYS PLUMBING CODE AND ALL OTHER LOCAL CODES HAVING JURISDICTION.

2. EQUIPMENT AND MATERIALS INSTALLED SHALL BE NEW UNLESS NOTED OTHERWISE ON DRAWINGS.

3. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND SPRINKLER CONTRACTOR IN ORDER TO AVOID ALL CONFLICTS.

4. THE PLUMBING CONTRACTOR SHALL PREPARE ALL FORMS AND DRAWINGS, PAY ALL FEES INCLUDING BUT NOT LIMITED TO THOSE REQUIRED FOR DRAWING PREPARATION, PERMITS AND APPLICATIONS TO AUTHORITIES. THE PLUMBING CONTRACTOR SHALL FILE ALL REQUIRED DRAWINGS, PLANS AND PERMITS TO OBTAIN APPROVAL. PLUMBING CONTRACTOR SHALL OBTAIN ALL WORK PERMITS AND APPROVED SIGN-OFFS AS REQUIRED TO EXECUTE THIS WORK IN A SAFE LEGAL MANNER.

5. THE PLUMBING CONTRACTOR SHALL PERFORM TESTS AND PAY ALL ASSOCIATED FEES REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION AND ARRANGE FOR ALL INSPECTIONS REQUIRED TO OBTAIN APPROVAL OF SYSTEMS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT.

6. THE PLUMBING CONTRACTOR SHALL FURNISH ALL CERTIFICATES OF INSURANCE AND ALL LICENSES AS REQUIRED BY LOCAL AUTHORITIES.

7. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT WITHOUT ANY ADDITIONAL COSTS TO OWNER WHETHER OR NOT IT IS SPECIFICALLY INDICATED IN THESE DOCUMENTS.

8. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING SIZES AND LOCATION OF CONNECTIONS BEFORE SUBMITTING A QUOTATION FOR THE WORK HEREIN.

9. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS REQUIRED TO PERFORM ALL CUTTING, TRENCHING, EXCAVATION, BACKFILLING, ETC, NECESSARY FOR THE PROPER INSTALLATION OF THE WORK OF THIS CONTRACT. THIS CONTRACT SHALL PERFORM ALL FINAL PATCHING TO BRING AREA OF WORK BACK TO ORIGINAL STATE UNLESS OTHERWISE NOTED.

10. ALL CONNECTIONS TO EQUIPMENT AND SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND THE MANUFACTURER'S RECOMMENDATIONS.

11. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL NEW PLUMBING FIXTURES AND EQUIPMENT TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. NO FIXTURES OR EQUIPMENT ARE TO BE INSTALLED WITHOUT ARCHITECT/ENGINEER APPROVAL.

12. THE PLUMBING CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LABOR AND MATERIALS INSTALLED UNDER THIS CONTRACT AND SHALL GUARANTEE THE WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF COMPLETION OF WORK.
13. PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ALL ROUGHING WITH THE RESPONSIBLE CONTRACTOR PRIOR TO INSTALLATIONS AND SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED. DRAWINGS DEPICT DESIGN INTENT AND SHALL NOT BE SCALED FOR DIMENSIONS.

GENERAL PLUMBING NOTES

ALL REFERENCED SECTION NUMBERS AND TABLES BELOW ARE FROM THE 2020 NYS PLUMBING CODE.

301.2 SYSTEM INSTALLATION. PLUMBING SHALL BE INSTALLED WITH DUE REGARD TO PRESERVATION OF THE STRENGTH OF STRUCTURAL MEMBERS AND PREVENTION OF DAMAGES TO WALLS AND OTHER SURFACES THROUGH FIXTURE USAGE.

301.3 CONNECTIONS TO THE SANITARY DRAINAGE SYSTEM. ALL PLUMBING FIXTURES, DRAINS, APPURTENANCES AND APPLIANCES USED TO RECEIVE OR DISCHARGE LIQUID WASTES OR SEWAGE SHALL BE DIRECTLY CONNECTED TO THE SANITARY DRAINAGE SYSTEM OF THE BUILDING OR PREMISES, IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CODE. THIS SECTION SHALL NOT BE CONSTRUED TO PREVENT THE INDIRECT WASTE SYSTEMS REQUIRED BY CHAPTER 8.

303.1 IDENTIFICATION. EACH LENGTH OF PIPE AND EACH PIPE FITTING, TRAP, FIXTURE, MATERIAL AND DEVICE UTILIZED IN A PLUMBING SYSTEM SHALL BEAR THE IDENTIFICATION OF THE MANUFACTURER AND ANY MARKINGS REQUIRED BY THE APPLICABLE REFERENCED STANDARDS.

303.2 INSTALLATION OF MATERIALS. MATERIALS USED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE STANDARDS UNDER WHICH THE MATERIALS ARE ACCEPTED AND APPROVED. IN THE ABSENCE OF SUCH INSTALLATION PROCEDURES, THE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED. WHERE THE REQUIREMENTS OF REFERENCED STANDARDS OR MANUFACTURER'S INSTALLATION INSTRUCTIONS DO NOT CONFORM TO MINIMUM PROVISIONS OF THIS CODE, THE PROVISIONS OF THIS CODE SHALL APPLY.

304.2 STRAINER PLATES. ALL STRAINER PLATES ON DRAIN INLETS SHALL BE DESIGNED AND INSTALLED SO THAT ALL OPENINGS ARE NOT GREATER THAN 0.5 INCH IN LEAST DIMENSION.

304.4 OPENINGS FOR PIPES. IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.

305.1 CORROSION. METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL, SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. WHERE SHEATHING IS USED TO PREVENT DIRECT CONTACT, THE SHEATHING SHALL HAVE A THICKNESS OF NOT LESS THAN 0.008 INCH (8 MIL) (0.203 MM) AND THE SHEATHING SHALL BE MADE OF PLASTIC. WHERE SHEATHING PROTECTS PIPING THAT PENETRATES CONCRETE OR MASONRY WALLS OR FLOORS, THE SHEATHING SHALL BE INSTALLED IN A MANNER THAT ALLOWS MOVEMENT OF THE PIPING WITHIN THE SHEATHING.

SECTION 306.1 SUPPORT OF PIPING. BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.

SECTIONS 306.2 THROUGH 306.4 TRENCHING, EXCAVATION AND BACKFILLING. SHALL BE IN COMPLIANCE WITH NYS PLUMBING CODE. SEE REFERENCED CODE FOR REQUIREMENTS.

308.3 MATERIALS. HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPPING MATERIAL SHALL BE OF APPROVED MATERIAL THAT WILL NOT PROMOTE GALVANIC ACTION.

308.5 INTERVAL OF SUPPORT. PIPE SHALL BE SUPPORTED IN ACCORDANCE WITH TABLE 308.5.

405.1 WATER SUPPLY PROTECTION. THE SUPPLY LINES AND FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW.

DOMESTIC HOT AND COLD WATER NOTES

605.4 WATER DISTRIBUTION PIPE. WATER DISTRIBUTION PIPING AND TUBING SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A PRESSURE RATING OF NOT LESS THAN 100 PSI AT 180° F.

TABLE 605.4
WATER DISTRIBUTION PIPE

MATERIAL	STANDARD
CHLORINATED POLYVINYL CHLORIDE (CPVC) PLASTIC PIPE	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
CHLORINATED POLYVINYL CHLORIDE/ALUMINUM/CHLORINATED POLYVINYL CHLORIDE (CPVC/AL/CPVC)	ASTM F 2855
COPPER OR COPPER-ALLOY PIPE	ASTM B 42; ASTM B 302
COPPER OR COPPER-ALLOY TUBING (TYPE K, WK, L, WL, M OR WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
CROSS-LINKED POLYETHYLENE (PEX) PLASTIC PIPE AND TUBING	ASTM F 876; ASTM F 877; CSA B137.5
CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX) PIPE	ASTM F 1281; ASTM F 2262; CSA B137.10
CROSS-LINKED POLYETHYLENE/ALUMINUM/HIGH DENSITY POLYETHYLENE (PEX-AL-HDPE)	ASTM F 1986
DUCTILE IRON WATER PIPE	AWWA C151/A21.51; AWWA C115/A21.15
GALVANIZED STEEL PIPE	ASTM A 53
POLYETHYLENE/ALUMINUM/POLYETHYLENE (PE-AL-PE) COMPOSITE PIPE	ASTM F 1282
POLYETHYLENE OF RAISED TEMPERATURE (PE-RT) PLASTIC TUBING	ASTM F 2769
POLYPROPYLENE (PP) PLASTIC PIPE OR TUBING	ASTM F 2389; CSA B137.11
STAINLESS STEEL PIPE (TYPE 304/304L)	ASTM A 312; ASTM A 778
STAINLESS STEEL PIPE (TYPE 316/316L)	ASTM A 312; ASTM A 778

605.5 FITTINGS. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 605.5. PIPE FITTINGS UTILIZED IN WATER SUPPLY SYSTEMS SHALL ALSO COMPLY WITH NSF 61. DUCTILE AND GRAY IRON PIPE AND PIPE FITTINGS UTILIZED IN WATER SERVICE PIPING SYSTEMS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104/A21.4.

605.6 FLEXIBLE WATER CONNECTORS. FLEXIBLE WATER CONNECTORS EXPOSED TO CONTINUOUS PRESSURE SHALL CONFORM TO ASME A112.18.6/CSA B125.6. ACCESS SHALL BE PROVIDED TO ALL FLEXIBLE WATER CONNECTORS.

605.7 VALVES. VALVES SHALL BE COMPATIBLE WITH THE TYPE OF PIPING MATERIAL INSTALLED IN THE SYSTEM. VALVES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.7 OR SHALL BE APPROVED. VALVES INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF 61.

606.2 LOCATION OF SHUTOFF VALVES. SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE OTHER THAN BATHTUBS AND SHOWERS IN ONE- AND TWO-FAMILY RESIDENTIAL OCCUPANCIES, AND OTHER THAN IN INDIVIDUAL SLEEPING UNITS THAT ARE PROVIDED WITH SHUTOFF VALVES IN HOTELS, MOTELS, BOARDING HOUSES AND SIMILAR OCCUPANCIES.
2. ON THE WATER SUPPLY TO EACH SILLCOCK.
3. ON THE WATER SUPPLY TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.

607.1.2 TEMPERED WATER TEMPERATURE CONTROL. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070/ASME A112.1070/CSA B125.70 AND SHALL LIMIT THE TEMPERED WATER TO NOT GREATER THAN 110°F (43°C). THIS PROVISION SHALL NOT SUPERSEDE THE REQUIREMENT FOR PROTECTIVE SHOWER VALVES IN ACCORDANCE WITH SECTION 412.3.

607.2 HOT OR TEMPERED WATER SUPPLY TO FIXTURES. THE DEVELOPED LENGTH OF HOT OR TEMPERED WATER PIPING, FROM THE SOURCE OF HOT WATER TO THE FIXTURES THAT REQUIRE HOT OR TEMPERED WATER, SHALL NOT EXCEED 50 FEET (15 240 MM). RECIRCULATING SYSTEM PIPING AND HEAT-TRACED PIPING SHALL BE CONSIDERED TO BE SOURCES OF HOT OR TEMPERED WATER.

607.2.1 CIRCULATION SYSTEMS AND HEAT TRACE SYSTEMS FOR MAINTAINING HEATED WATER TEMPERATURE IN DISTRIBUTION SYSTEMS. FOR OTHER THAN GROUP R2, R3 AND R4 OCCUPANCIES THAT ARE THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE, THE INSTALLATION OF HEATED WATER CIRCULATION AND HEAT TRACE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.6 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

608.2 PLUMBING FIXTURES. THE SUPPLY LINES AND FITTINGS FOR PLUMBING FIXTURES SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW. PLUMBING FIXTURE FITTINGS SHALL PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1.

608.3 DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS. DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM.

501.8 TEMPERATURE CONTROLS. HOT WATER SUPPLY SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENTS FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTINGS FOR THE INTENDED TEMPERATURE OPERATING RANGE.

DOMESTIC HOT AND COLD WATER NOTES

605.3 WATER SERVICE PIPE. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.3. WATER SERVICE PIPE OR TUBING, INSTALLED UNDERGROUND AND OUTSIDE OF THE STRUCTURE, SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI (1100 KPA) AT 73.4°F (23°C). WHERE THE WATER PRESSURE EXCEEDS 160 PSI (1100 KPA), PIPING MATERIAL SHALL HAVE A WORKING PRESSURE RATING NOT LESS THAN THE HIGHEST AVAILABLE PRESSURE. WATER SERVICE PIPING MATERIALS NOT THIRD-PARTY CERTIFIED FOR WATER DISTRIBUTION SHALL TERMINATE AT OR BEFORE THE FULL OPEN VALVE LOCATED AT THE ENTRANCE TO THE STRUCTURE. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104/A21.4.

605.3.1 DUAL CHECK-VALVE-TYPE BACKFLOW PREVENTER. DUAL CHECK-VALVE BACKFLOW PREVENTERS INSTALLED ON THE WATER SUPPLY SYSTEM SHALL COMPLY WITH ASSE 1024 OR CSA B64.6.

606.6 WATER SUPPLY SYSTEM TEST. UPON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM, OR PORTION COMPLETED, SHALL BE TESTED IN ACCORDANCE WITH SECTION 312.

607.5 INSULATION OF PIPING. FOR OTHER THAN GROUP R2, R3 AND R4 OCCUPANCIES THAT ARE THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE, PIPING TO THE INLET OF A WATER HEATER AND PIPING CONVEYING WATER HEATED BY A WATER HEATER SHALL BE INSULATED IN ACCORDANCE WITH SECTION C404.4 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

608.16.4.2 HOSE CONNECTIONS. SILLCOCKS, HOSE BIBBS, WALL HYDRANTS AND OTHER OPENINGS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE OR PRESSURE-TYPE VACUUM BREAKER OR A PERMANENTLY ATTACHED HOSE CONNECTION VACUUM BREAKER.

EXCEPTION:
1. THIS SECTION SHALL NOT APPLY TO WATER HEATER AND BOILER DRAIN VALVES THAT ARE PROVIDED WITH HOSE CONNECTION THREADS AND THAT ARE INTENDED ONLY FOR TANK VESSEL DRAINING.
2. THIS SECTION SHALL NOT APPLY TO WATER SUPPLY VALVES INTENDED FOR CONNECTION OF CLOTHES WASHING MACHINES WHERE BACKFLOW PREVENTION IS OTHERWISE PROVIDED OR IS INTEGRAL WITH THE MACHINE.

608.14 LOCATION OF BACKFLOW PREVENTERS. ACCESS SHALL BE PROVIDED TO BACKFLOW PREVENTERS AS SPECIFIED BY THE INSTALLATION INSTRUCTIONS OF THE APPROVED MANUFACTURER.

606.1 LOCATION OF FULL-OPEN VALVES. FULL-OPEN VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. ON THE BUILDING WATER SERVICE PIPE FROM THE PUBLIC WATER SUPPLY NEAR THE CURB.
2. ON THE WATER DISTRIBUTION PIPE AT THE ENTRANCE INTO THE STRUCTURE.
3. ON THE DISCHARGE SIDE OF EVERY WATER METER.
4. ON THE BASE OF EVERY WATER RISER PIPE IN OCCUPANCIES OTHER THAN MULTIPLE-FAMILY RESIDENTIAL OCCUPANCIES THAT ARE TWO STORIES OR LESS IN HEIGHT AND IN ONE- AND TWO-FAMILY RESIDENTIAL OCCUPANCIES.
5. ON THE TOP OF EVERY WATER DOWN-FEED PIPE IN OCCUPANCIES OTHER THAN ONE AND TWO-FAMILY RESIDENTIAL OCCUPANCIES.
6. ON THE ENTRANCE TO EVERY WATER SUPPLY PIPE TO A DWELLING UNIT, EXCEPT WHERE SUPPLYING FIXTURES EQUIPPED WITH INDIVIDUAL STOPS.
7. ON THE WATER SUPPLY PIPE TO AND FROM A GRAVITY OR PRESSURIZED WATER TANK.
8. ON THE WATER SUPPLY PIPE TO EVERY WATER HEATER.

SANITARY DRAINAGE NOTES

AS PER PLUMBING CODE SECTION 708.1 CLEANOUTS REQUIRED, CLEANOUTS SHALL BE PROVIDED FOR DRAINAGE PIPING IN ACCORDANCE WITH SECTIONS 708.1.1 THROUGH 708.1.11. AS FOLLOWS:

708.1.1 HORIZONTAL DRAINS AND BUILDING DRAINS. HORIZONTAL DRAINAGE PIPES IN BUILDINGS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING DRAINS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM) EXCEPT WHERE MANHOLES ARE USED INSTEAD OF CLEANOUTS, THE MANHOLES SHALL BE LOCATED AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, THE END OF THE HORIZONTAL DRAIN OR THE END OF THE BUILDING DRAIN.

708.1.2 BUILDING SEWERS. BUILDING SEWERS SMALLER THAN 8 INCHES (203 MM) SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING SEWERS 8 INCHES (203 MM) AND LARGER SHALL HAVE A MANHOLE LOCATED NOT MORE THAN 200 FEET (60 960 MM) FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER AND AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, A MANHOLE OR THE END OF THE BUILDING SEWER.

708.1.3 BUILDING DRAIN AND BUILDING SEWER JUNCTION. THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER SHALL BE SERVED BY A CLEANOUT THAT IS LOCATED AT THE JUNCTION OR WITHIN 10 FEET (3048 MM) OF THE DEVELOPED LENGTH OF PIPING UPSTREAM OF THE JUNCTION. FOR THE REQUIREMENTS OF THIS SECTION, THE REMOVAL OF THE WATER CLOSET SHALL NOT BE REQUIRED TO PROVIDE CLEANOUT ACCESS.

708.1.4 CHANGES OF DIRECTION. WHERE A HORIZONTAL DRAINAGE PIPE, A BUILDING DRAIN OR A BUILDING SEWER HAS A CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES (0.79 RAD), A CLEANOUT SHALL BE INSTALLED AT THE CHANGE OF DIRECTION. WHERE MORE THAN ONE CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES (0.79 RAD) OCCURS WITHIN 40 FEET (12 192 MM) OF DEVELOPED LENGTH OF PIPING, THE CLEANOUT INSTALLED FOR THE FIRST CHANGE OF DIRECTION SHALL SERVE AS THE CLEANOUT FOR ALL CHANGES IN DIRECTION WITHIN THAT 40 FEET (12 192 MM) OF DEVELOPED LENGTH OF PIPING.

SANITARY DRAINAGE NOTES

413.1 APPROVAL, 413.2 FLOOR DRAINS & 413.3 SIZE OF FLOOR DRAINS. FLOOR DRAINS SHALL CONFORM TO ASME A112.3.1, ASME A112.6.3 OR CSA B79. TRENCH DRAINS SHALL COMPLY WITH ASME A112.6.3. FLOOR DRAINS SHALL HAVE REMOVABLE STRAINERS. THE FLOOR DRAIN SHALL BE CONSTRUCTED SO THAT THE DRAIN IS CAPABLE OF BEING CLEANED. ACCESS SHALL BE PROVIDED TO THE DRAIN INLET. READY ACCESS SHALL BE PROVIDED TO FLOOR DRAINS. FLOOR DRAINS SHALL HAVE A DRAIN OUTLET NOT LESS THAN 2 INCHES IN DIAMETER.

702.1 ABOVE-GROUND SANITARY DRAINAGE AND VENT PIPE. ABOVE-GROUND SOIL, WASTE AND VENT PIPE SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 702.1.

702.2 UNDERGROUND BUILDING SANITARY DRAINAGE AND VENT PIPE. UNDERGROUND BUILDING SANITARY DRAINAGE AND VENT PIPE SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 702.2.

702.3 BUILDING SEWER PIPE. BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 702.3

702.4 FITTINGS. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 702.4.

702.7 LEAD BENDS AND TRAPS. THE WALL THICKNESS OF LEAD BENDS AND TRAPS SHALL BE NOT LESS THAN ⅛ INCH.

704.1 SLOPE OF HORIZONTAL DRAINAGE PIPING. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE SLOPE OF A HORIZONTAL DRAINAGE PIPE SHALL BE NOT LESS THAN THAT INDICATED IN TABLE 704.1 EXCEPT THAT WHERE THE DRAINAGE PIPING IS UPSTREAM OF A GREASE INTERCEPTOR, THE SLOPE OF THE PIPING SHALL BE NOT LESS THAN 1/4 INCH PER FOOT (2-PERCENT SLOPE).

TABLE 704.1
SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2½ OR LESS	¼ a
3 TO 6	⅛ a
8 OR LARGER	1/16 a

a. Slopes for piping draining to a grease interceptor shall comply with Section 704.1.

903.1 ROOF EXTENSIONS. OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED NOT LESS THAN 18 INCHES ABOVE THE ROOF. WHERE A ROOF IS TO BE USED FOR ASSEMBLY OR AS A PROMENADE, OBSERVATION DECK, SUNBATHING DECK OR SIMILAR PURPOSES, OPEN VENT PIPES SHALL TERMINATE NOT LESS THAN 7 FEET ABOVE THE ROOF.

903.2 FROST CLOSURE. WHERE THE 97.5-PERCENT VALUE FOR OUTDOOR DESIGN TEMPERATURE IS 0°F (-18°C) OR LESS, VENT EXTENSIONS THROUGH A ROOF OR WALL SHALL BE NOT LESS THAN 3 INCHES (76 MM) IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE NOT LESS THAN 1 FOOT (305 MM) INSIDE THE THERMAL ENVELOPE OF THE BUILDING.

903.3 FLASHINGS. THE JUNCTURE OF EACH VENT PIPE WITH THE ROOF LINE SHALL BE MADE WATER TIGHT BY AN APPROVED FLASHING.

903.4 PROHIBITED USE. A VENT TERMINAL SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN A VENT TERMINAL.

903.5 LOCATION OF VENT TERMINAL. AN OPEN VENT TERMINAL FROM A DRAINAGE SYSTEM SHALL NOT BE LOCATED DIRECTLY BENEATH ANY DOOR, OPENABLE WINDOW, OR OTHER AIR INTAKE OPENING OF THE BUILDING OR OF AN ADJACENT BUILDING, AND ANY SUCH VENT TERMINAL SHALL NOT BE WITHIN 10 FEET HORIZONTALLY OF SUCH AN OPENING UNLESS IT IS 3 FEET OR MORE ABOVE THE TOP OF SUCH OPENING.

802.3 INSTALLATION. INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR. WASTE RECEPTORS SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. INDIRECT WASTE PIPING THAT EXCEEDS 30 INCHES (762 MM) IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 54 INCHES (1372 MM) IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED.

EXCEPTION: WHERE A WASTE RECEPTOR RECEIVES ONLY CLEARWATER WASTE AND DOES NOT DIRECTLY CONNECT TO A SANITARY DRAINAGE SYSTEM, THE RECEPTOR SHALL NOT REQUIRE A TRAP.

802.3.1 AIR GAP. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL NOT BE LESS THAN TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

802.3.2 AIR BREAK. AN AIR BREAK SHALL BE PROVIDED BETWEEN THE INDIRECT WASTE PIPE AND THE TRAP SEAL OF THE WASTE RECEPTOR.

802.4 WASTE RECEPTORS. FOR OTHER THAN HUB DRAINS THAT RECEIVE ONLY CLEAR-WATER WASTE AND STANDPIPES, A REMOVABLE STRAINER OR BASKET SHALL COVER THE OUTLET OF WASTE RECEPTORS. WASTE RECEPTORS SHALL NOT BE INSTALLED IN CONCEALED SPACES. WASTE RECEPTORS SHALL NOT BE INSTALLED IN PLENUMS, CRAWL SPACES, ATTICS, INTERSTITIAL SPACES ABOVE CEILINGS AND BELOW FLOORS. READY ACCESS SHALL BE PROVIDED TO WASTE RECEPTORS.

802.4.2 HUB DRAINS. A HUB DRAIN SHALL BE IN THE FORM OF A HUB OR A PIPE EXTENDING NOT LESS THAN 1 INCH ABOVE A WATER-IMPERVIOUS FLOOR.

802.4.3 STANDPIPES. STANDPIPES SHALL BE INDIVIDUALLY TRAPPED. STANDPIPES SHALL EXTEND NOT LESS THAN 18 INCHES BUT NOT GREATER THAN 42 INCHES ABOVE THE TRAP WEIR. ACCESS SHALL BE PROVIDED TO STANDPIPES AND DRAINS FOR RODDING.

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PLUMBING NOTES

PROJECT #: 21-08

DRAWN BY:

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DRAWING#:

P-11

Rhvac - ight Commercial HVAC Loads — **Elite Software Development, Inc.** Tappan Fd - Washington Street

System 2 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
4	Ready Room / Kitchen	473	16,458	214	0-0	0	9,745	3,128	443	1.19	527	443
	Ventilation		7,220				1,724	2,290				
	System 2 total	473	23,678	214			11,469	5,418	443		527	443

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.41	68% / 32%	11,469	5,418	16,888
Recommended:	1.81	75% / 25%	16,255	5,418	21,673

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
5	Corridor	340	9,963	129	0-0	0	4,422	846	201	1.00	201	201
8	Men Bathroom	71	52	1	0-0	0	171	0	8	1.00	8	8
9	Women Bathroom	71	78	1	0-0	0	171	0	8	1.00	8	8
	Ventilation		5,525				1,319	1,753				
	System 3 total	482	15,618	131			6,083	2,599	217		217	217

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.72	70% / 30%	6,083	2,599	8,682
Recommended:	0.87	75% / 25%	7,796	2,599	10,395

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
6	Office 1	109	4,889	64	0-0	0	3,729	442	170	1.00	170	170
7	Office 2	132	3,813	50	0-0	0	3,611	442	164	1.25	205	164
	Ventilation		2,210				528	701				
	System 4 total	241	10,912	113			7,868	1,585	334		375	334

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.79	83% / 17%	7,868	1,585	9,453
Recommended:	0.87	75% / 25%	7,868	2,623	10,490

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
10	Chiefs Office	167	6,351	83	0-0	0	3,832	1,212	174	1.00	174	174
	Ventilation		2,799				669	888				
	System 5 total	167	9,150	83			4,500	2,100	174		174	174

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.55	68% / 32%	4,500	2,100	6,600
Recommended:	0.70	75% / 25%	6,300	2,100	8,400

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
12	Radio Room	169	7,450	97	0-0	0	9,003	756	409	1.00	409	409
	Ventilation		1,842				440	584				
	System 6 total	169	9,292	97			9,442	1,340	409		409	409

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.90	88% / 12%	9,442	1,340	10,783
Recommended:	1.05	75% / 25%	9,442	3,147	12,590

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
13	Stair To 2nd Fl	117	3,509	140	0-0	0	855	456	113	1.00	39	113
16	2nd Fl Corridor	189	2,924	117	0-0	0	1,112	331	147	1.00	51	147
17	2nd Fl Men	59	1,432	57	0-0	0	423	103	56	1.00	19	56
18	2nd Fl Women	59	1,432	57	0-0	0	423	103	56	1.00	19	56
	System 7 total	424	9,297	371			2,811	993	371		128	371

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.32	74% / 26%	2,811	993	3,804
Recommended:	0.33	75% / 25%	2,979	993	3,972

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
14	Stair To Meeting Room	86	6,648	86	0-0	0	2,287	383	104	1.18	123	104
15	Meeting Room	793	20,270	263	0-0	0	17,094	5,940	777	1.25	972	777
	Ventilation		27,258				6,509	8,647				
	System 8 total	879	54,176	350			25,890	14,970	881		1,094	881

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	3.41	63% / 37%	25,890	14,970	40,860
Recommended:	4.99	75% / 25%	44,910	14,970	59,881

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
19	Office Or File Storage	122	2,124	28	0-0	0	2,162	443	98	1.00	98	98
	Ventilation		1,105				264	351				
	System 9 total	122	3,229	28			2,426	794	98		98	98

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.27	75% / 25%	2,426	794	3,219
Recommended:	0.27	75% / 25%	2,426	809	3,235

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
20	Secretary/Treas	161	6,087	79	0-0	0	4,542	873	207	1.00	207	207
21	Sec Files	75	692	9	0-0	0	367	0	17	1.00	17	17
	Ventilation		1,842				440	584				
	System 10 total	236	8,621	88			5,348	1,457	223		223	223

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.57	79% / 21%	5,348	1,457	6,806
Recommended:	0.59	75% / 25%	5,348	1,783	7,131

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
22	Bofc	256	8,215	107	0-0	0	8,979	1,369	408	1.00	408	408
	Ventilation		3,242				774	1,028				
	System 11 total	256	11,457	107			9,753	2,397	408		408	408

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.01	80% / 20%	9,753	2,397	12,150
Recommended:	1.08	75% / 25%	9,753	3,251	13,003

DRAWING LIST:

M-1	HEAT GAIN AND LOSS CALCULATIONS
M-2	FIRST FLOOR MECHANICAL PLAN
M-3	SECOND FLOOR / ROOF MECHANICAL PLAN
M-4	FIRST FLOOR PIPING PLAN
M-5	SECOND FLOOR MECHANICAL PIPING PLAN
M-6	MECHANICAL FAN COIL SCHEDULES
M-7	MECHANICAL SCHEDULES & RISER DIAGRAM
M-8	MECHANICAL EQUIPMENT SCHEDULES CON'TD.
M-9	MECHANICAL DETAILS
M-10	MECHANICAL NOTES.

SCOPE OF WORK:

THE FOLLOWING ITEMS DESCRIBED ARE IN COMPLIANCE WITH THE 2020 NYSECCC, 2020 IBC AND THE 2020 IMC.

IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO OBTAIN ALL FILINGS, APPROVALS, PERMITS AND SIGNOFFS FOR THIS PROJECT.

THE MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OF THE FOLLOWING AND ALL SYSTEMS WITHIN THE DRAWINGS AND SPECIFICATIONS:

- (1) MULTI SPLIT SYSTEM WITH SIMULTANEOUS HEATING AND COOLING CAPABILITIES AS SPECIFIED. THIS INCLUDES ALL PIPING AND CONTROL WIRING FOR THE ENTIRE SYSTEM.
- (1) MINI SPLIT SYSTEM COMPOSED OF (1) HEATPUMP AND (1) FAN COIL FOR UNIFORM STORAGE
- ONE ENERGY RECOVERY SYSTEM WITH ALL REQUIRED DUCTWORK AND CONTROLS AS SPECIFIED.
- ALL EQUIPMENT AS INDICTED WHICH INCLUDES BUT NOT LIMITED TO APPARATUS BAY EXHAUST, UNIT HEATERS, VENTING, ALL ITEMS WITHIN THE PLANS ALONG WITH ALL SPECIFIED OPTIONS AND ACCESSORIES, REFRIGERANT PIPING, PIPING INSULATION, CONDENSATE PIPING, DUCTWORK, DUCT INSULATION, DUCT SUPPORTS, HANGERS, DIFFUSERS, GRILLES, DAMPERS, PENETRATIONS, ACCESS DOORS, CONTROL WIRING AND CONTROLS FOR ALL SYSTEMS.
-

ENERGY COMPLIANCE PATH: 2020 NYSECCC PRESCRIPTIVE PATH

ADDITIONAL EFFICIENCY PACKAGE: FOR COMPLIANCE — REDUCED LIGHTING POWER (C406.3) - SEE ELECTRICAL PLANS

ADD/ALT:

THE FOLLOWING ITEMS DESCRIBED ARE REQUESTED AS AN ADDITION TO THE CONTRACT DESIGN.

A SNOW MELT SYSTEM CONSISTING OF A 50'x50' CONCRETE APRON IN FRONT OF THE APPARATUS BAYS. THIS SHALL INCLUDE THE UNDER SLAB R-10 INSULATION, EDGE INSULATION.

PROVIDE ALL SLAB PIPING TO MANIFOLDS, ALL PIPING FROM THE TWO MANIFOLDS TO THE ADD/ALT BOILER.

PROVIDE THE BOILER, INCLUDE ALL VENTING AND A GLYCOL SYSTEM, A HYDRONIC PUMP AND EXPANSION TANK.

PROVIDE SLAB SENSOR O/A SENSOR, ALL CONTROL WIRING AND FULL AUTOMATIC CONTROL OF SYSTEM.

ADDED TO PROJECT

DATE: ISSUE
7.18.22 FOR BID

SEAL:



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ARCHITECTS - PLANNERS
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WALDEN, NY 12586
(845) 275-8859

TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN NY, 10983

HEAT GAIN AND LOSS CALCULATIONS

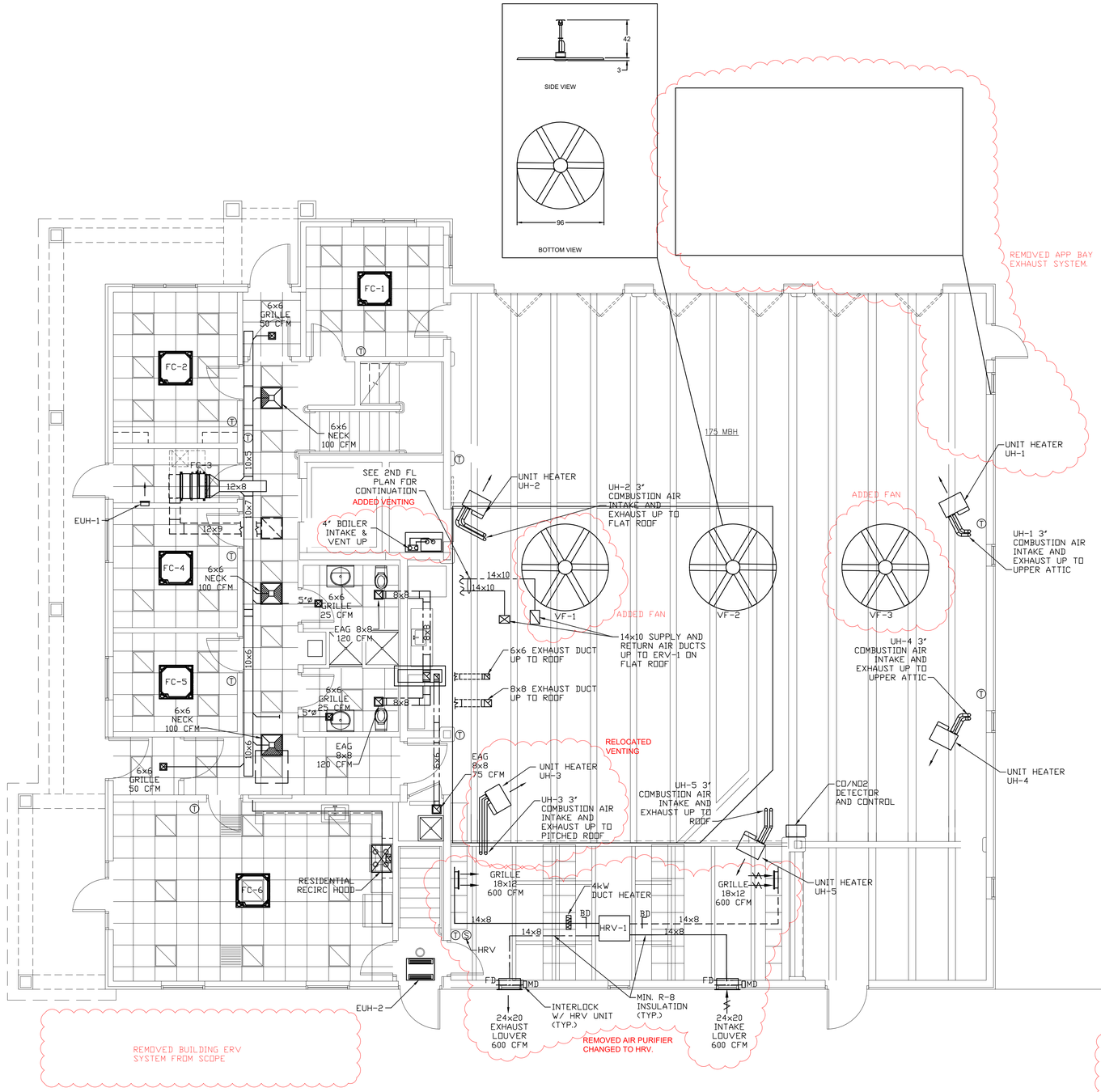
PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

M-1



SYMBOL LEGEND

SUPPLY AIR DUCT	
RETURN AIR DUCT	
EXHAUST AIR DUCT	
SUPPLY AIR GRILLE	SAG
SUPPLY AIR DIFFUSER	SAD
RETURN AIR GRILLE	RAG
FIRE/SMOKE DAMPER W/ ACCESS DOOR	FSD
BALANCING DAMPER	BD
THERMOSTAT	T

PLAN NOTES:
1. ALL BRANCH DUCTWORK TO DIFFUSERS AND GRILLES SHALL HAVE BALANCING DAMPERS INSTALLED AT TAKEOFF'S.
2. ALL SUPPLY, RETURN AND EXHAUST AIR DUCTS AND PLENUMS LOCATED IN UNCONDITIONED SPACES SHALL BE FULLY INSULATED AND EXTERNALLY WRAPPED WITH A MINIMUM OF R-6 FOIL BACK INSULATION. INCLUDE MASTIC SEALING OF ALL JOINTS AND SEAMS.
3. PROVIDE ALUMINUM DIFFUSERS/GRILLES FOR ALL DUCTWORK TERMINATIONS.
4. ALL DUCTWORK HAS BEEN SIZED IN ACCORDANCE WITH THE ASHRAE HANDBOOK OF FUNDAMENTALS.
5. ALL AIRSIDE SYSTEMS SHALL BE BALANCED AND A CERTIFIED REPORT PROVIDED.
6. PROVIDE BALANCING DAMPERS AT ALL BRANCH MAINS. TYPICAL OF ALL.
7. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES. TAPES AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M" FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-C." CLOSURE SYSTEMS USED TO SEAL ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
8. DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE. FLEXIBLE AND OTHER FACTORY-MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
9. THE PRESSURE CLASSIFICATION OF DUCTS SHALL EQUAL OR EXCEED THE DESIGN PRESSURE OF THE AIR DISTRIBUTION IN WHICH THE DUCTS ARE UTILIZED.
10. VERIFY LOCATIONS OF ALL THERMOSTATS AND SENSORS WITH ARCHITECT PRIOR TO INSTALLATION.
11. PROVIDE LOW VOLTAGE CONTROLS, CONTROL WIRING AND DAMPERS FOR EACH SYSTEM. ALL CONTROL WIRING SHALL BE IN METAL CONDUIT.
12. PROVIDE ½" INTERNAL ACOUSTICAL LINING FOR THE FIRST 15' OF ALL SUPPLY DUCTWORK.
13. ROUND BRANCH DUCTS SHALL BE GALVANIZED METAL.
14. PROVIDE ACCESS DOORS FOR ALL DAMPERS WITHIN INACCESSIBLE CEILINGS.
15. EXTERNAL DUCT INSULATION, EXCEPT SPRAY POLYURETHANE FOAM, AND FACTORY-INSULATED FLEXIBLE DUCT SHALL BE LEGIBLY PRINTED OR IDENTIFIED AT INTERVALS NOT GREATER THAN 36 INCHES WITH THE NAME OF THE MANUFACTURER, THE THERMAL RESISTANCE R-VALUE AT THE SPECIFIED INSTALLED THICKNESS AND THE FLAME SPREAD AND SMOKE-DEVELOPED INDEXES OF THE COMPOSITE MATERIALS. DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY, EXCLUDING AIR FILMS, VAPOR RETARDERS OR OTHER DUCT COMPONENTS, AND SHALL BE BASED ON TESTED C-VALUES AT 75°F MEAN TEMPERATURE AT THE INSTALLED THICKNESS, IN ACCORDANCE WITH RECOGNIZED INDUSTRY PROCEDURES.
16. ALL DUCT DIMENSIONS NOTED ARE CLEAR INSIDE DIMENSIONS.
17. ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS.
18. MATERIALS USED AS INTERNAL INSULATION AND EXPOSED TO THE AIRSTREAM IN DUCTS SHALL BE SHOWN TO BE DURABLE WHEN TESTED IN ACCORDANCE WITH UL 181. EXPOSED INTERNAL INSULATION THAT IS NOT IMPERMEABLE TO WATER SHALL NOT BE USED TO LINE DUCTS OR PLENUMS FROM THE EXIT OF A COOLING COIL TO THE DOWNSTREAM END OF THE DRAIN PAN.
19. ALL CASSETTE STYLE/CONCEALED DUCTED FAN COIL UNITS SHALL BE FULLY INSULATED ABOVE THE CEILING.
20. PROVIDE EMERGENCY CONDENSATE DRAIN PAN WITH WET SWITCH INTERLOCK FOR ALL FAN COIL UNITS ABOVE THE CEILING.
21. PROVIDE INSULATED REFRIGERANT LINESETS FROM HEAT PUMP TO ALL FAN COIL UNITS. CONNECT AS PER MANUFACTURER'S INSTALLATION MANUAL.
22. PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.
23. ALL ROOFTOP DUCTWORK, REFRIGERANT PIPING SHALL BE SUPPORTED OFF THE ROOF. PROVIDE PATE ROOF CURBS OR APPROVED EQUAL
24. ALL ROOFTOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 24" ABOVE ROOF.
25. PROVIDE ROOF CURBS AND EQUIPMENT RAILS.

1. CO/NO2 DETECTOR TO BE INTERLOCKED WITH GARAGE DOORS. DOORS TO OPEN UPON SIGNAL FROM DETECTOR. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
2. ALL CONTROLS SHALL BE LOCAL, BAS SYSTEM REMOVED FROM SCOPE.

ADDED NOTE

FIRST FLOOR MECHANICAL PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE
7.18.22 FOR BID

SEAL:

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FIRST FLOOR MECHANICAL PLAN

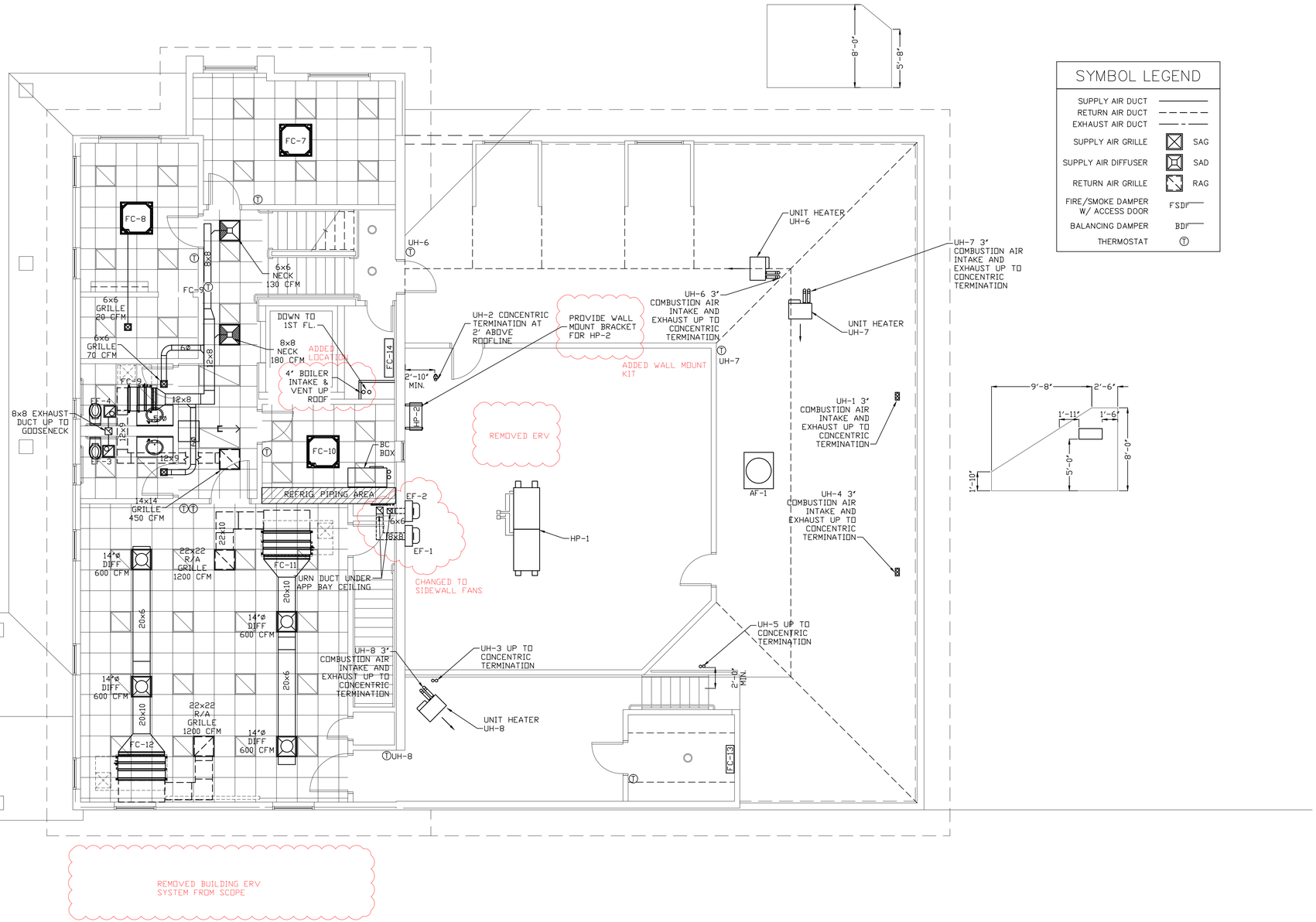
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

M-2



SYMBOL LEGEND

SUPPLY AIR DUCT	
RETURN AIR DUCT	
EXHAUST AIR DUCT	
SUPPLY AIR GRILLE	SAG
SUPPLY AIR DIFFUSER	SAD
RETURN AIR GRILLE	RAG
FIRE/SMOKE DAMPER W/ ACCESS DOOR	FSD
BALANCING DAMPER	BD
THERMOSTAT	T

SECOND FLOOR MECHANICAL PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE
7.18.22 FOR BID

SEAL:

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SECOND FLOOR MECHANICAL PLAN

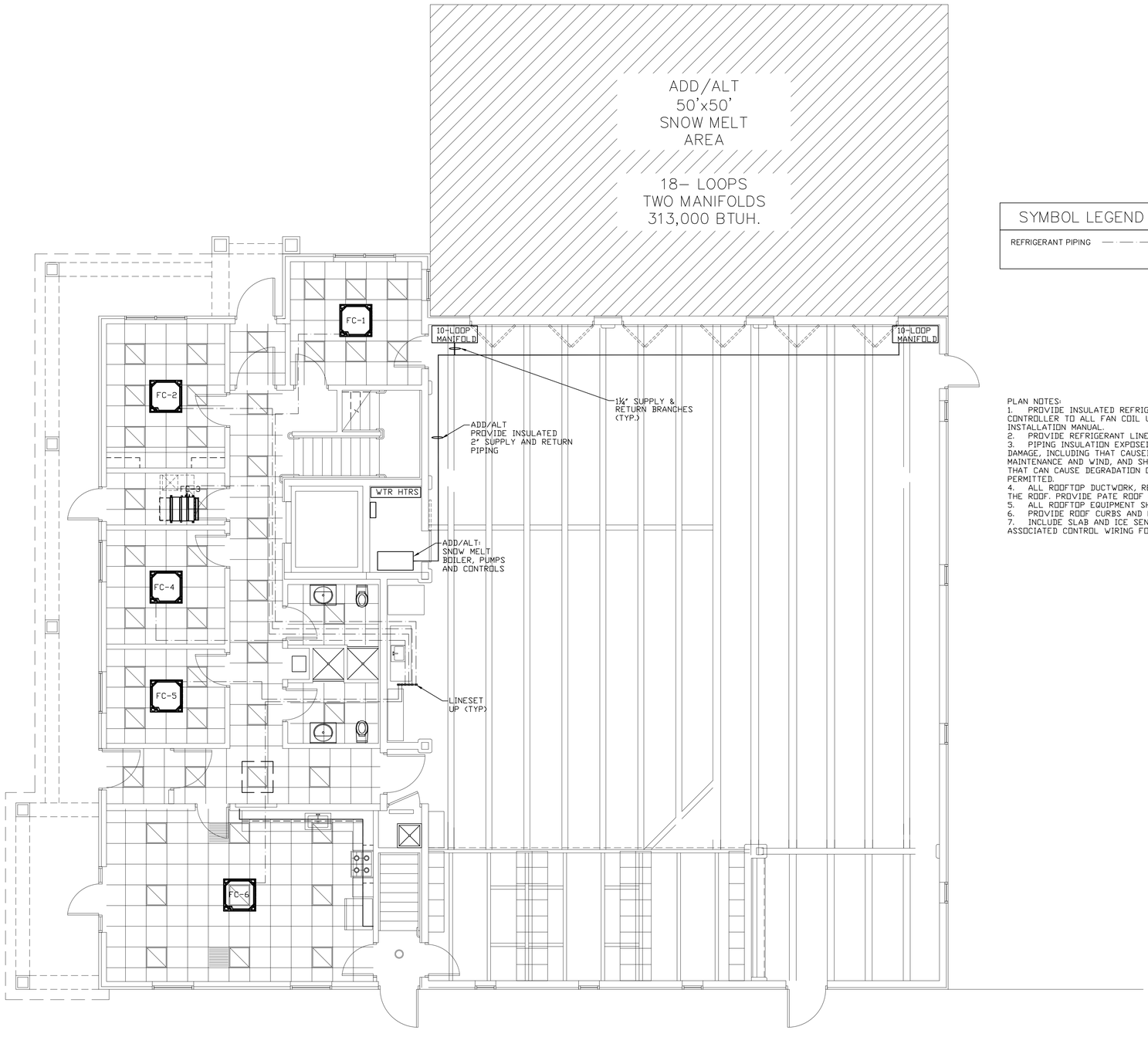
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

M-3



SYMBOL LEGEND

REFRIGERANT PIPING — — — —

PLAN NOTES:
1. PROVIDE INSULATED REFRIGERANT LINESETS FROM HEAT PUMP BC CONTROLLER TO ALL FAN COIL UNITS. CONNECT AS PER MANUFACTURER'S INSTALLATION MANUAL.
2. PROVIDE REFRIGERANT LINESET FROM BC CONTROL TO OUTDOOR HEATPUMP.
3. PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.
4. ALL ROOFTOP DUCTWORK, REFRIGERANT PIPING SHALL BE SUPPORTED OFF THE ROOF. PROVIDE PATE ROOF CURBS OR APPROVED EQUAL
5. ALL ROOFTOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 24" ABOVE ROOF.
6. PROVIDE ROOF CURBS AND EQUIPMENT RAILS.
7. INCLUDE SLAB AND ICE SENSORS, OUTDOOR AIR THERMOSTAT AND ALL ASSOCIATED CONTROL WIRING FOR SNOW MELT SYSTEM.

FIRST FLOOR REFRIGERANT PIPING PLAN

SCALE: 3/16" = 1'–0"

DATE: ISSUE
7.18.22 FOR BID

SEAL:



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FIRST FLOOR
REFRIGERANT PIPING PLAN &
ADD/ALT SNOW MELT PIPING

PROJECT #: 21–08

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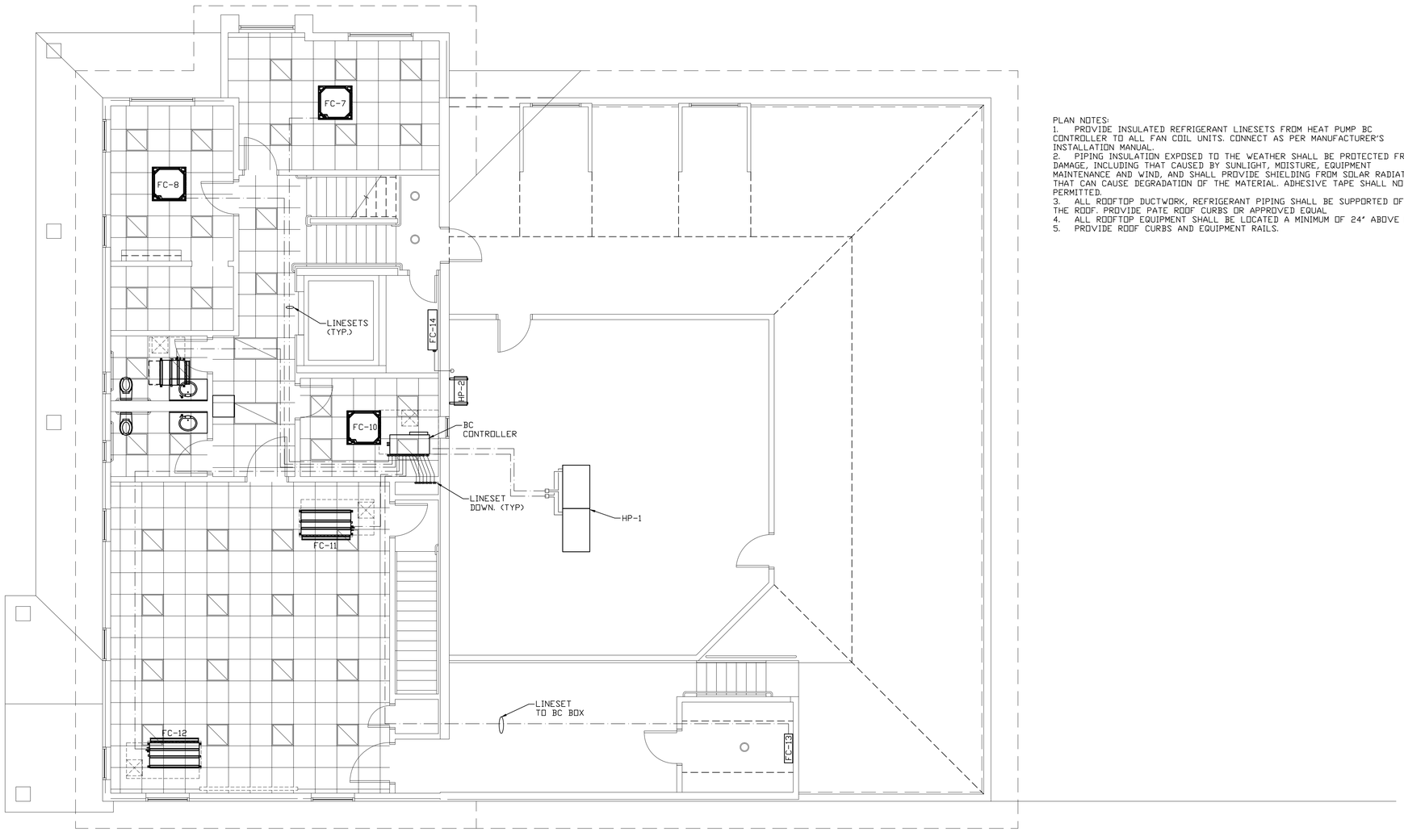
CAD FILE: 21–08/P: /BID

DRAWING#:

M–4

SYMBOL LEGEND

REFRIGERANT PIPING — — —



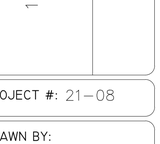
PLAN NOTES:
1. PROVIDE INSULATED REFRIGERANT LINESETS FROM HEAT PUMP BC CONTROLLER TO ALL FAN COIL UNITS. CONNECT AS PER MANUFACTURER'S INSTALLATION MANUAL.
2. PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.
3. ALL ROOFTOP DUCTWORK, REFRIGERANT PIPING SHALL BE SUPPORTED OFF THE ROOF. PROVIDE PATE ROOF CURBS OR APPROVED EQUAL.
4. ALL ROOFTOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 24" ABOVE ROOF.
5. PROVIDE ROOF CURBS AND EQUIPMENT RAILS.

SECOND FLOOR REFRIGERANT PIPING PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE
7.18.22 FOR BID

SEAL:



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135 WASHINGTON STREET
TAPPAN NY, 10983

SECOND FLOOR
REFRIGERANT PIPING PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P: /BID

DRAWING#:

M-5

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

	System Tag	System 1	System 2
	Tag Reference		
Nominal Data	M-NET Address	51, 52	14
	Model Number	PURY-EP192TSNU-A	PUY-A12NHA4
	Modules	P96, P96	
	Nominal Cooling Capacity (BTU/h)	192,000.0	12,000.0
	Nominal Heating Capacity (BTU/h)	215,000.0	00.0
	Cooling Efficiency IEER/EER [SEER]	28.55 / 13.4	0 [15.2]
	Heating COP @ 47°F [HSPF]	3.825	0 [Clg Only]
	Nom System Connected Capacity (% of NOM)	117.2%	100.0%
Design Conditions	Design Cooling Outdoor Temp DB (°F)	90.0	90.0
	Design Heating Outdoor Temp WB (°F)	2.0	2.0
	Max Pipe Length from BC or 1st Joint (feet)	74.8	0.0
	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	7/8 / 1 1/8	1/4 / 1/2
Performance Data	Corrected Cooling Total Capacity (BTU/h)	192,780.1	10,786.8
	Corrected Heating Capacity (BTU/h)	169,800.3	00.0
	Sound Pressure (dBA)	61.5/63	46
Compressor Data	Compressor Type	SCROLL	
	Compressor Quantity	2	
	Preliminary Added Field Charge (See Note 5)	41.9	0.0
Electrical Data	Voltage / Phase	208/230V / 3-phase 3-wire	208/230V /
	MCA 208/230 or [460V]	31/29, 31/29	13
	Recommended Fuse Size (RFS)	45/45, 45/45	15
	MOCP	45/45, 45/45	15
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 2, 3, 4, 5, 6, 7, 8, 9

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
6 Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment
7 Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations
8 Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment
9 Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment
10 Provide 24" Super Stand Kit

Quantities

Qty	Model	Description	Tag
12	PAR-40MAAU	MA remote controller	CTR1-DISPATCH,CTR1-CHIEFS,CTR1-1ST FL CORR,CTR1-OFFICERS,CTR1-ASSOC,CTR1-READY RM,CTR1-BOFC,CTR1-SEC/TREAS,CTR1-2nd FL CORR,CTR1-STORAGE,CTR1-MTG RM 1,CTR1-MTG RM 2
2	PAR-31MAA	MA remote controller	CTR1-UNIFORM,CTR1-IT RM
1	PURY-EP192TSNU-A	R410A R2 Series Outdoor Unit	
1	PUY-A12NHA4	R410A P Series Outdoor Unit	
1	CMB-P1016NU-JA1	BC Controller Main	
3	PLFY-EP15NEMU-ER1	Ceiling-Cassette (Four-Way) Indoor Unit	DISPATCH,BOFC,SEC/TREAS
1	PLFY-EP12NEMU-E	Ceiling-Cassette (Four-Way) Indoor Unit	CHIEFS
2	PEFY-P15NMAU-E4	Ceiling-Concealed (Ducted) Indoor Unit	1ST FL CORR,2nd FL CORR
2	PLFY-EP08NEMU-ER1	Ceiling-Cassette (Four-Way) Indoor Unit	OFFICERS,ASSOC
1	PLFY-EP30NEMU-ER1	Ceiling-Cassette (Four-Way) Indoor Unit	READY RM
1	PLFY-P08NFMU-E	Ceiling-Cassette (Four-Way) Indoor Unit	STORAGE
2	PEFY-P36NMAU-E4	Ceiling-Concealed (Ducted) Indoor Unit	MTG RM 1,MTG RM 2
1	PKFY-P12NLMU-E.TH	Wall -Mounted Indoor Unit	UNIFORM
1	PKA-A12HA4	Wall -Mounted Indoor Unit	IT RM
1	CMY-R200NCBK	Twinning Kit	TWK1
1	AE-200A	System Remote Controller	CTR1
1	QSSB48M-24	Super Stand w/ 48in rails, 24in Tall	
1	QSSX48M-24	Super Stand Ext w/ 48in Rails, 24in Tall	
1	SWDN-1	Side Wind Deflector	
1	WDN-2	Front/Rear Wind Deflector	
7	PLP-41EAEU	Grille with 3D i-see Sensor™	DISPATCH,CHIEFS,OFFICERS,ASSOC,READY RM,BOFC,SEC/TREAS
1	SLP-18FAU	Decoration Panel	STORAGE
16	BV38BBSI	Ball Valve 3/8"	
16	BV58BBSI	Ball Valve 5/8"	
1	CMY-R302S-G1	Reducer	
1	PAC-SJ95MA-E	M-NET Converter	

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

	System Tag	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 2
	Tag Reference	DISPATCH	CHIEFS	1ST FL CORR	OFFICERS	ASSOC	READY RM	BOFC	SEC/TREAS	2nd FL CORR	STORAGE	MTG RM 1	MTG RM 2	UNIFORM	IT RM
Nominal Data	Room Name														
	M-NET Address	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Model	PLFY-EP15NEMU-ER1	PLFY-EP12NEMU-E	PEFY-P15NMAU-E4	PLFY-EP08NEMU-ER1	PLFY-EP08NEMU-ER1	PLFY-EP30NEMU-ER1	PLFY-EP15NEMU-ER1	PLFY-EP15NEMU-ER1	PEFY-P15NMAU-E4	PLFY-P08NFMU-E	PEFY-P36NMAU-E4	PEFY-P36NMAU-E4	PKFY-P12NLMU-E.TH	PKA-A12HA4
	Type	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Concealed (Ducted)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Concealed (Ducted)	Ceiling-Cassette (Four-Way)	Ceiling-Concealed (Ducted)	Ceiling-Concealed (Ducted)	Wall -Mounted	Wall -Mounted
	Nominal Cooling Capacity (BTU/h)	15,000.0	12,000.0	15,000.0	8,000.0	8,000.0	30,000.0	15,000.0	15,000.0	15,000.0	8,000.0	36,000.0	36,000.0	12,000.0	12,000.0
	Nominal Heating Capacity (BTU/h)	17,000.0	13,500.0	17,000.0	9,000.0	9,000.0	34,000.0	17,000.0	17,000.0	17,000.0	9,000.0	40,000.0	40,000.0	13,500.0	13,600.0
Design Conditions	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1
	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
	Cooling Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
	Heating Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	1/4 / 1/2	1/2 / 1/4
Performance Data	Cooling Total Capacity (BTU/h)	12,852.0	10,281.6	12,852.0	6,854.4	6,854.4	25,704.0	12,852.0	12,852.0	12,852.0	6,854.4	30,844.8	30,844.8	10,281.6	10,786.8
	Cooling Sensible Capacity (BTU/h)	10,817.3	9,242.3	10,822.8	6,134.1	6,134.1	20,172.0	10,817.3	10,817.3	10,822.8	5,918.4	27,014.2	27,014.2	7,725.5	9,453.1
	Heating Capacity (BTU/h)	11,409.5	9,060.5	11,409.5	6,040.3	6,040.3	22,819.0	11,409.5	11,409.5	11,409.5	6,040.3	26,845.9	26,845.9	9,060.5	00.0
	Estimated Cooling Coil LAT (°F) / [LWT]	55.2	57.7	51.6	62.5	62.5	48.9	55.2	55.2	51.6	54.5	52.2	52.2	47.8	51.3
	Estimated Heating Coil LAT (°F) / [LWT]	89.7	86.1	93.5	81.4	81.4	98.1	89.7	89.7	93.5	89.8	91.7	91.7	100.4	72.0
Fan / Water Flow Data	Fan Speed Setting	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
	Peak Fan Airflow (cfm) / [Design gpm]	600	600	494	600	600	812	600	600	494	315	1271	1271	297	425
	Max Fan ESP Setting 208V/230V (IN WG)			0.6/0.6						0.6/0.6		0.6/0.6	0.6/0.6		
	Sound Pressure Per Fan Speed 208V/230V (dBA)	28-29-30-31	27-29-30-31	27-31-34	27-29-30-31	27-29-30-31	28-31-33-35	28-29-30-31	28-29-30-31	27-31-34	26-30-33	35-39-43	35-39-43	24-31-37-41	
Electrical Data	Voltage / Phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	/
	Power Cooling 208V/230V (kW)	0.03	0.03	0.062	0.03	0.03	0.04	0.03	0.03	0.062	0.02	0.222	0.222	0.04	
	Power Heating 208V/230V (kW)	0.02	0.02	0.06	0.02	0.02	0.04	0.02	0.02	0.06	0.02	0.22	0.22	0.03	
	Electrical MCA/MFS	0.39/0.39/15	0.39/0.39/15	2.88/15	0.39/0.39/15	0.39/0.39/15	0.57/0.57/15	0.39/0.39/15	0.39/0.39/15	2.88/15	0.28/0.28/15	4.25/15	4.25/15	0.24/0.24/15	Powered by Outdoor
	Condensate Removal Rate (gal/hr)	0.42	0.26	0.46	0.19	0.19	1.09	0.42	0.42	0.46	0.25	0.92	0.92	0.59	1.49
	Actual Port Assignments														
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.
Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply.
It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6 It is recommended to always base heating corrected capacity on full demand.

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TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN NY, 10983

MECHANICAL EQUIPMENT SCHEDULES

PROJECT #: 21-08

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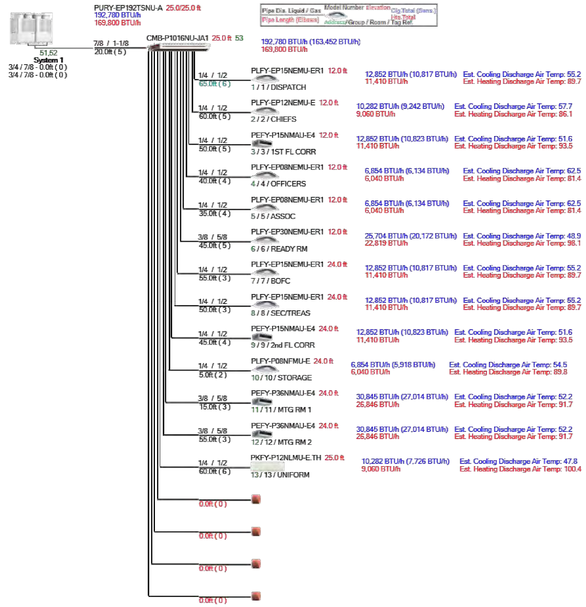
CAD FILE: 21-08/P: /BID

DRAWING#:

M-6

Centralized System - 1 : System 1

Piping Diagram Image (Design View)



Centralized System - 1 : System 2

Piping Diagram Image (Design View)



REMOVED BUILDING ERV SYSTEM FROM SCOPE

UNIT HEATER SCHEDULE (ELECTRIC)

APPROVALS: UL LISTED

MARK	MANUFACTURER TYPE & MODEL	COILS	WATTS	ENTERING AIR (°F)	BTU/HR.	ELECTRICAL DATA CFM	HP	VOLTS	PHASE	AMPS	REMARKS	LOCATION(S)
EUH-1	QMARK CWH3180F	1	1,800	40	6,138	100	-	120	1	15.0	WALL MNT.	DELIVERY RM.
EUH-2	QMARK CDF500	1	3,000	40	10,200	300	-	208	3	9.6	CLG. MNT.	SOUTH LOBBY

PROVIDE: DISCONNECT, OPTIONAL BMS RELAYS, WALL MOUNTED THERMOSTAT, RECESS CEILING KIT.

CEILING HVLS CIRCULATING FAN SCHEDULE

APPROVALS: UL

DESIGNATION	MAKE	MODEL	POWER SUPPLY VOLTAGE	PHASE	AMPS	MOCP	H.P	RPM	#AIRFOILS	WEIGHT	LISTINGS
VF-1,2,3	MACROAIR	8'	208	3	10.8	15	1.0	142	6	171 LBS.	UL

PROVIDE: AIRLYNK, CONTROLLER 30, LOCAL OVERRIDE REMOTE, CONTROL WIRING, MOUNTING, INPUTS FOR FIRE ALARM AND CO-NO CONTROLLER, SAFETY CABLE, BLADE RETAINER LINKS.

ADDED TWO FANS & CONTROLS

HEAT RECOVERY VENTILATOR SCHEDULE

DESIGNATION	MAKE	MODEL	POWER SUPPLY VOLTAGE	PHASE	AMPS	QTY	H.P	LISTINGS
HRV-1	BRDAN	B6LC	120	1	9.5	1	-	UL507/ETL

PROVIDE: OPTIONAL WALL CONTROL, PROGRAMMABLE TIMECLOCK, 4.1Kw EDH AND CONTROL WIRING BY MECHANICAL CONTRACTOR.

CHANGED AIR PURIFIER TO HRV

DEHUMIDIFIER SCHEDULE

DESIGNATION	POWER SUPPLY VOLTAGE	PHASE	MCA	MAX FUSE	MOISTURE REMOVAL	REFRIG.	CFM	MAKE	MODEL	LOCATION	NOTES
DH-1	120	1	8.42	15	70 PINTS	R-410A	120	LENNOX	HCWHD3-070	ATTIC AREAS	
DH-2	120	1	8.42	15	70 PINTS	R-410A	120	LENNOX	HCWHD3-070	ATTIC AREAS	

PROVIDE: DISCONNECT SWITCH, CONDENSATE PUMP & DRAIN, BACKFLOW DAMPER, 40VA TRANSFORMER, 10" DAMPERS, OUTDOOR TEMP SENSOR, DRAIN PAN.

UNIT HEATER SCHEDULE (GAS FIRED)

MARK	MANUFACTURER TYPE & MODEL	HEATING / BTU INPUT	HEATING / BTU OUTPUT	TEMP. RISE	F.L.A.	MOTOR DATA CFM	HP	VOLTS	PHASE	AMPS	WEIGHT	LOCATION(S)
UH-1	MODINE HDS-45	45,000	36,900	46°	3.75	720	1/15	120	1	3.8	60	NEW APPARATUS BAY
UH-2	MODINE HDS-45	45,000	36,900	46°	3.75	720	1/15	120	1	3.8	60	NEW APPARATUS BAY
UH-3	MODINE HDS-45	45,000	36,900	46°	3.75	720	1/15	120	1	3.8	60	NEW APPARATUS BAY
UH-4	MODINE HDS-45	45,000	36,900	46°	3.75	720	1/15	120	1	3.8	60	NEW APPARATUS BAY
UH-5	MODINE HDS-30	30,000	24,600	44°	3.75	505	1/15	120	1	3.8	55	GEAR AREA
UH-6	MODINE HDS-30	30,000	24,600	44°	3.75	505	1/15	120	1	3.8	55	UPPER ATTIC
UH-7	MODINE HDS-30	30,000	24,600	44°	3.75	505	1/15	120	1	3.8	55	UPPER ATTIC
UH-8	MODINE HDS-30	30,000	24,600	44°	3.75	505	1/15	120	1	3.8	55	UPPER ATTIC

1. PROVIDE AND INSTALL WALL MOUNTED LOW VOLTAGE THERMOSTAT WITH SUB-BASE.
2. PROVIDE AND INSTALL INTAKE AND EXHAUST PIPING, CONCENTRIC ROOF TERMINATION KIT WITH FLASHING.
3. PROVIDE LOCKING THERMOSTAT GUARD.
4. PROVIDE 24V TRANSFORMER.

EXHAUST FAN SCHEDULE

APPROVALS: UL

TAG	SERVICE	TYPE	FAN DATA CFM	S.P	AMPS	VOLT	PH	H.P.	RPM	DAMPER SIZE	ROOF OPENING	WEIGHT	GREENHECK MODEL NO	NOTES
EF-1	1ST FL RESTROOMS	SIDEWALL	240	0.5	1.38	115	1	1/10	1,554	10x10	12.5x12.5	28	CUE-080-VG	-
EF-2	JAN. CLOSET	SIDEWALL	70	0.30	1.3	115	1	0.02	1,578	10x10	10.5x10.5	21	CUE-060-VG	-
EF-3	2ND FL MENS RESTROOM	CLG	75	0.3	0.1	115	1	-	884	6"ø	-	12	SP-80-VG	-
EF-4	2ND FL WOMENS RESTROOM	CLG	75	0.3	0.1	115	1	-	884	6"ø	-	12	SP-80-VG	-

PROVIDE: SIDEWALL MOUNTING(EF-1&2), FLASHING, MOUNTING, HANGING/SPRING VIBRATION ISOLATION, FLEXIBLE CONNECTORS, BACKDRAFT DAMPERS, DISCONNECTS,

CHANGED FAN MODEL

Sidewall Direct Drive Fan

MARK INFORMATION QTY	MARK	FAN INFORMATION MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	MOTOR INFORMATION SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF-5	SE1-18-424-VG	2,250	0.35	1,330	0.31	54	0.75	115/60/1	OP	1725	1	13.8

*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"

APP BAY EXH : SELECTED OPTIONS AND ACCESSORIES
UL Listing
Airflow Direction: Exhaust
Motor Access: From Int. of Bldg.
Switch, NEMA-1, Toggle, Shipped with Unit
Aluminum Damper Guard

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TAPPAN FIRE DISTRICT
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TAPPAN NY, 10983

MECHANICAL EQUIPMENT SCHEDULES & REFRIGERANT RISER DIAGRAM

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

M-7

ADD/ALT EQUIPMENT SCHEDULE

BOILER SCHEDULE

APPROVALS: AHRI, ASME, CSA

UNIT NO.	SERVICE	GAS			COMB. EFF. %	MAX GPM	FLUE OUTLET SIZE (IN)	FUEL	TYPE	MAX WORK. PRESS.	DESIGN PRESS. PSIG	WEIGHT OPER. (LBS)	WATER TEMP °F		MANUF.	MODEL NO.
		INPUT MBH	OUTPUT MBH	MIN. OPER GAS PRESS (W.C.)									ENT.	LVG.		
B-1	HEATING	399	333	-	96.5	-	4"	NAT. GAS	HOT WATER	-	-	260	155	180	WEIL McLAIN	EVG-399

BOILER TO INCLUDE THE FOLLOWING: MANIFOLDS, O/A RESET, TEMP/PRESSURE GAUGES, MULTI PURPOSE & ISOLATION VALVES, LOW WATER CUT OFF, ANTI-SIPHON, HI AND LOW LIMIT CONTROLS, AQUA STAT, GLYCOL FILL, DURAVENT AL29-4C FASNSEAL VENTING, CIRCULATOR, NEUTRALIZATION KIT, VORTECH AIR/DIRT SEPARATOR, ROOF VENT TERMINATION KIT, 6' CONCRETE EQUIPMENT PAD

PUMP SCHEDULE

APPROVALS: UL

DESIGNATION	MANUF.	MODEL#	HEAD (FT.)	GPM	HP	ELECTRICAL REQ.			CONNECTION		REMARKS
						Volts	Ph	AMP	Inlet	Outlet	
P-1	TACO	VR1SH	39.5	33	0.68	208	1	5.6	1.5"	1.5"	PIPING INSULATION

PUMPS TO INCLUDE THE FOLLOWING: HOA DISCONNECT, WIRSBO PROMIX PUMP CONTROLLER AND RELAYS, ISOLATION VALVES, MULTI PURPOSE VALVES, TEMPERATURE/PRESSURE GAUGES, VIBRATION ISOLATION.

EXPANSION TANK SCHEDULE

APPROVALS: ISO 9001, ASME

DESIGNATION	MANUF.	MODEL#	TANK VOL.	ACCEPT. VOL.	HEIGHT	DIAMETER	SYS. CONN.	SHIPPING WEIGHT	REMARKS
EXP-1	TACO	CX-42	11	5	27.5"	14"	1"	51	B-1

INCLUDED IN CONTRACT

ATTIC FAN SCHEDULE

APPROVALS: UL

TAG	SERVICE	TYPE	FAN DATA							DAMPER SIZE	ROOF OPENING	WEIGHT	BROAN MODEL NO.
			CFM	S.P	HP	VOLT	PH	AMPS	FRPM				
AF-1	ATTIC VENTILATOR	ROOF EXHAUST	1600	0.03	-	120	1	8.0	1500	22sq/in	-	-	356BK

PROVIDE: ROOF FLASHING, DISCONNECT AND BUILT IN ADJUSTABLE THERMOSTAT, BACKDRAFT DAMPER

EXHAUST HOOD SCHEDULE

APPROVALS: UL

DESIGNATION	SONES		CFM			POWER SUPPLY			MAKE/MODEL
	NORMAL	HIGH	NORMAL	HIGH (0.25 IN. W.G.)	HIGH (0.1 IN. W.G.)	VOLTAGE	PHASE	AMPS	
H-1	2.5	10.5	200	488	500	120	1	3.05	BROAN/EW58

INCLUDE: DISCONNECT.

CARBON MONOXIDE CONTROLLER

DESIGNATION	MANUF.	MODEL#	ELEC	AMPS	RELAY RATING	SENSORS	SHIPPING WEIGHT	REMARKS
CO/NO-1	MACURCO	CX-12	120/1	1.0	5 AMPS	CSI02A	15 lbs	APP BAYS

INCLUDE, HORN STROBE, CALIBRATION KIT, CONTROL PANEL FAN RELAYS.

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.

1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

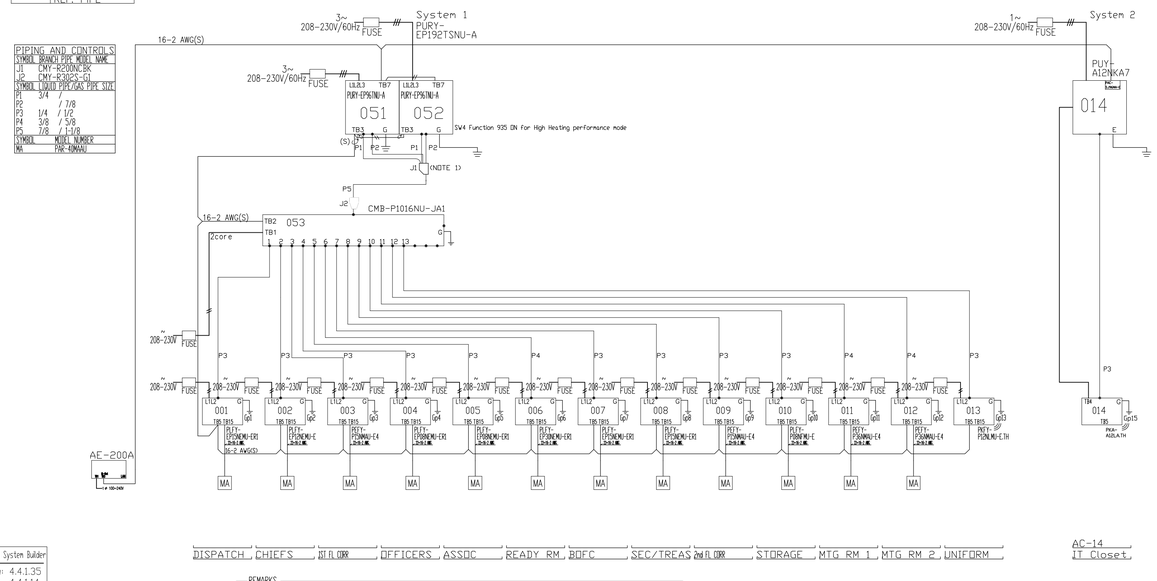
Coded Notes:
NOTE 1: Install twinning Y's within 15 degrees of level and with 20 inches of straight pipe on converging connection - reference installation manual for additional details including but not limited to special trapping requirements when twinning, and pipe slope requirements

CITY MULTI

SYSTEM SCHEMATIC DWG.

DIAGRAM SYMBOL LEGEND		CONT.No		PAGE	
DISPLAY	DESCRIPTION				
///	POWER WIRE				
———	CONTROL WIRE				
———	REF. PIPE				

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R2020NZ-BK
J2	CMY-R3025-G1
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/4 /
P2	/ 7/8
P3	1/4 / 1/2
P4	3/8 / 5/8
P5	7/8 / 1-1/8
SYMBOL	MODEL NUMBER
M1	PAC-IDM1AS



REMARKS
Comments:

Diamond System Builder
sw: 4.4.1.35
alo: 4.4.1.14
7/19/2022
10:23 AM

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MECHANICAL EQUIPMENT
SCHEDULES & CONTROL RISER
DIAGRAM

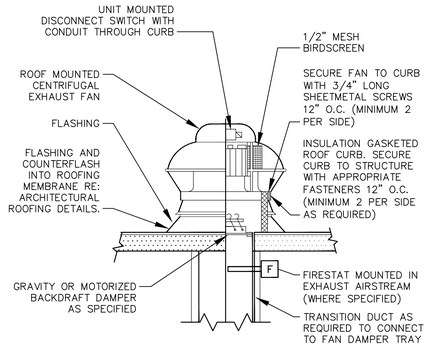
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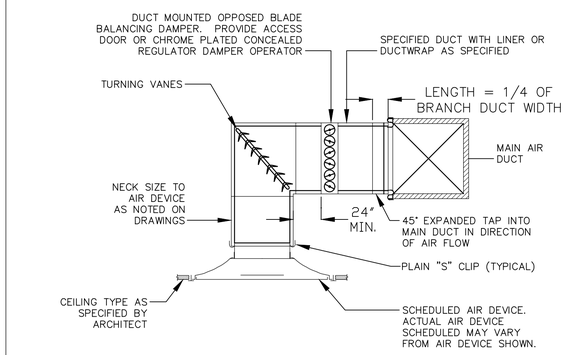
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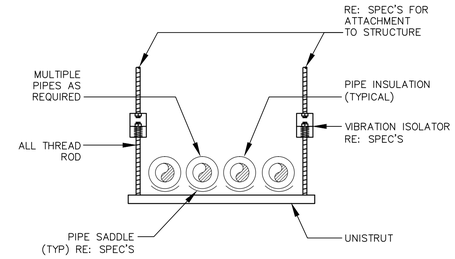
M-8



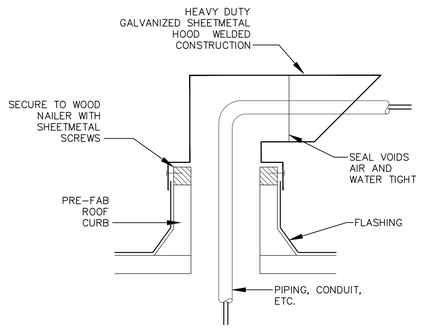
1 TYPICAL ROOF EXHAUST FAN
NOT TO SCALE



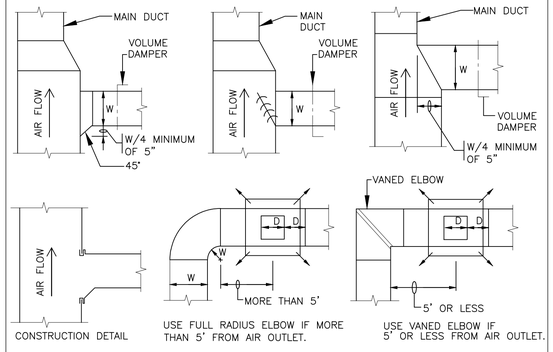
2 AIR-DEVICE IN NON-ACCESSIBLE CEILING
NOT TO SCALE



3 TYPICAL MULTIPLE PIPE HANGER
NOT TO SCALE

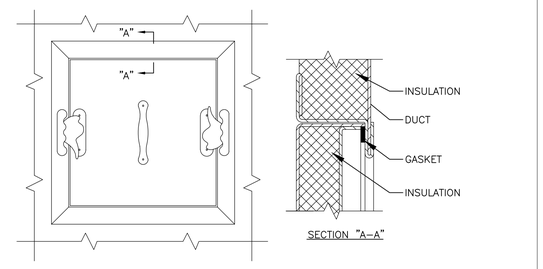


4 PIPE PENETRATION
NOT TO SCALE



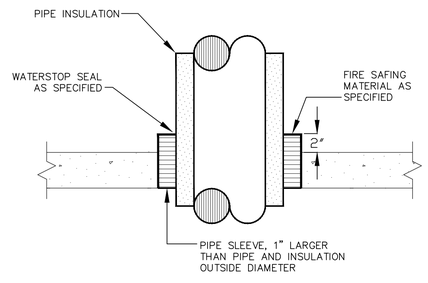
NOTE: DETAILS REFLECT CONNECTIONS FOR LOW PRESSURE DUCTWORK.

5 BRANCH DUCT CONNECTIONS
NOT TO SCALE

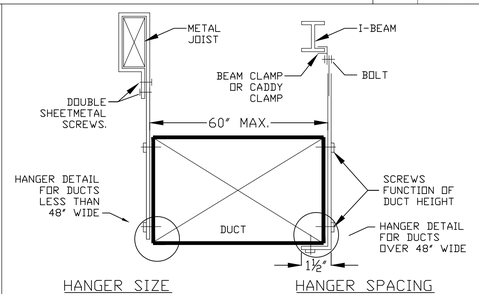


6 ACCESS PANEL
NOT TO SCALE

FIRE SEAL SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S U.L. LISTED INSTALLATION INSTRUCTIONS.



7 TYPICAL PIPE SLEEVE
NOT TO SCALE



HANGER SIZE

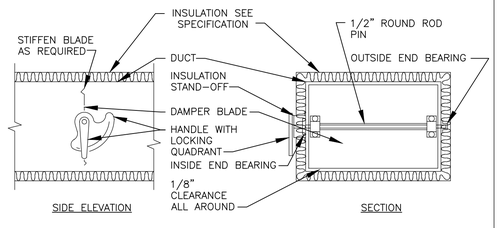
DUCT SIZE	HANGER SIZE
UP TO 2 SQ. FT.	1" X 1/16"
2 TO 8 SQ. FT.	1" X 1/8"
OVER 8 SQ. FT.	1" X 1/8"

HANGER SPACING

DUCT SIZE	MAX SPACING
UP TO 4 SQ. FT.	8'-0"
4 TO 10 SQ. FT.	6'-0"
OVER 10 SQ. FT.	4'-0"

NOTES:
1. ALL SUPPLEMENTARY STEEL OR ANGLE TO BE EITHER GALVANIZED OR BLACK.
2. DUCTS OVER 60" TO TRAPEZE WITH ROD AND ANGLE AS PER SMACNA.

8 TYPICAL DUCT HANGING
NOT TO SCALE

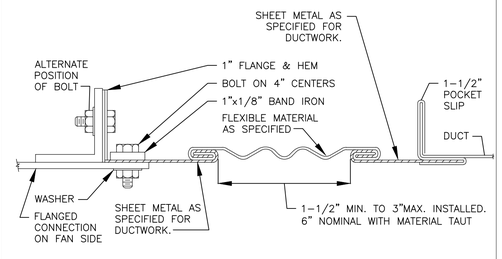


NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.

1. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

9 VOLUME DAMPER
NOT TO SCALE



10 FLEXIBLE DUCT CONNECTIONS
NOT TO SCALE

DATE: ISSUE
7.18.22 FOR BID

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TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN NY, 10983

MECHANICAL DETAILS

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

M-9

2020 MECHANICAL CODE AND BUILDING CODE OF NEW YORK STATE:

1. Heating, ventilating and air-conditioning systems of all structures shall be designed and installed for efficient utilization of energy in accordance with the International Energy Conservation Code of New York State.

2. The approval and installation of fuel gas distribution piping and equipment, fuel gas-fired appliance venting systems shall be in accordance with the International Fuel Gas Code. As per Section 301.6 Fuel gas appliances and equipment.

3. All appliances regulated by this code shall be listed and labeled for the application in which they are installed and used, unless otherwise approved in accordance with section 105. As per section 301.7 of the 2020 International Mechanical Code of New York State. Exception: Listing and labeling of equipment and appliances used for refrigeration shall be in accordance with section 1101.2.

4. The building or structure shall not be weakened by the installation of mechanical systems. Where floors, walls, ceilings or any other portion of the building or structure are required to be altered or replaced in the process of installing or repairing any system, the building or structure shall be left in a safe structural condition in accordance with the 2020 International Building Code of New York State.

5. Penetrations of floor/ceiling assemblies and assemblies required to have a fire-resistance rating shall be protected in accordance with Chapter 7 of the 2020 International Building Code of New York State.

6. Where sleeves are used, they shall be securely fastened to the assembly penetrated. The space between the item contained in the sleeve and the sleeve itself and any space between the sleeve and the assembly penetrated shall be protected in accordance with this section. Insulation and coverings on or in the penetrating item shall not penetrate the assembly unless the specific material used has been tested as part of the assembly in accordance with this section. As per Section 714.3 Installation details of the 2020 International Building Code of New York State.

7. Penetrations into or through fire walls, fire barriers, smoke barrier walls, and fire partitions shall comply with Sections 714.4.1-714.4.3 of the International Building Code (IBC). Penetrations in smoke barrier walls shall also comply with Section 714.5.4 of the 2020 IBCNYS.

8. Through penetrations of fire-resistance-rated walls shall comply with Section 714.4.1.1 or 714.4.1.2 of the 2020 IBCNYS.
Exceptions: Where the penetrating items are steel, ferrous or copper pipes, tubes or conduits, the annular space between the penetrating item and the fire-resistance-rated wall shall be permitted to be protected by either of the following measures:
1. In concrete or masonry walls where the penetrating item is a maximum 6-inch (152 mm) nominal diameter and the opening is a maximum 144 square inches (0.0929 m2), concrete, grout or mortar shall be permitted where installed the full thickness of the wall or the thickness required to maintain the fire-resistance rating.
2. The material used to fill the annular space shall prevent the passage of flame and hot gases sufficient to ignite cotton waste where subjected to ASTM E 119 or UL 263 time-temperature fire conditions under a minimum positive pressure differential of 0.01 inch (2.49 Pa) of water at the location of the penetration for the time period equivalent to the fire-resistance rating of the construction penetrated. As per Section 714.4.1 Through penetrations of the 2020 IBCNYS.

9. Through penetrations shall be protected using systems installed as tested in the approved fire-resistance-rated assembly. As per Section 714.4.1.1 Fire-resistance-rated assemblies of the 2020 IBCNYS.

10. Through penetrations shall be protected by an approved penetration firestop system installed as tested in accordance with ASTM E814 or UL 1479, with a minimum positive pressure differential of 0.01 inch (2.49 Pa) of water and shall have an F rating of not less than the required fire-resistance rating of the wall penetrated. As per Section 714.4.1.2 Through-penetration firestop system of the 2020 IBCNYS.

11. Penetrations of fire-resistance-rated walls by ducts that are not protected with dampers shall comply with this Sections 714.3-714.4.3 of the IBC. Penetrations of horizontal assemblies not protected with a shaft and not required to be protected with fire dampers by other sections of this code, shall comply with Sections 714.5-714.6.2 of the 2020 IBCNYS. Ducts and air transfer openings that are protected with dampers shall comply with Section 717. As per Section 714.1.1 Ducts and air transfer openings of the 2020 IBCNYS.

12. Noncombustible penetrating items shall not connect combustible items beyond the point of firestopping unless it can be demonstrated that the fire-resistance integrity of the wall is maintained. As per Section 714.4.3 Dissimilar materials of the 2020 IBCNYS.

13. Penetrations of a fire-resistance-rated floor, floor/ceiling assembly or the ceiling membrane of a roof/ceiling assembly not required to be enclosed in a shaft by Section 712.1 shall be protected in accordance with Sections 714.5.1 through 714.5.4. of the 2020 IBCNYS.

14. Through penetrations of fire-resistance-rated horizontal assemblies shall comply with Section 714.5.1.1 or 714.5.1.2 of the 2020 IBCNYS.
Exceptions:
1. Penetrations by steel, ferrous or copper conduits, pipes, tubes or vents or concrete or masonry items through a single fire-resistance-rated floor assembly where the annular space is protected with materials that prevent the passage of flame and hot gases sufficient to ignite cotton waste when subjected to ASTM E119 or UL 263 time-temperature fire conditions under a minimum positive pressure differential of 0.01 inch (2.49 Pa) of water at the location of the penetration for the time period equivalent to the fire-resistance rating of the construction penetrated. Penetrating items with a maximum 6-inch (152 mm) nominal diameter shall not be limited to the penetration of a single fire-resistance-rated floor assembly, provided that the aggregate area of the openings through the assembly does not exceed 144 square inches (92 900 mm2) in any 100 square feet (9.3 m2) of floor area.
2. Penetrations in a single concrete floor by steel, ferrous or copper conduits, pipes, tubes or vents with a maximum 6-inch (152 mm) nominal diameter, provided that the concrete, grout or mortar is installed the full thickness of the floor or the thickness required to maintain the fire-resistance rating. The penetrating items shall not be limited to the penetration of a single concrete floor, provided that the area of the opening through each floor does not exceed 144 square inches (92 900 mm2).
3. Penetrations by listed electrical boxes of any material, provided that such boxes have been tested for use in fire-resistance-rated assemblies and installed in accordance with the instructions included in the listing.
As per Section 714.5.1 Through penetration of the 2020 IBCNYS.

15. Through penetrations shall be protected using systems installed as tested in the approved fire-resistance-rated assembly. As per Section 714.5.1.1 of the 2020 IBCNYS.

16. Through penetrations shall be protected by an approved through-penetration firestop system installed and tested in accordance with ASTM E814 or UL 1479, with a minimum positive pressure differential of 0.01 inch of water (2.49 Pa). The system shall have an F rating/T rating of not less than 1 hour but not less than the required rating of the floor penetrated.
Exceptions:
1. Floor penetrations contained and located within the cavity of a wall above the floor or below the floor do not require a T rating..
2. Floor penetrations by floor drains, tub drains or shower drains contained and located within the concealed space of a horizontal assembly do not require a T rating.
3. Floor penetrations of maximum 4-inch (102 mm) nominal diameter metal conduit or tubing penetrating directly into metal-enclosed electrical power switchgear do not require a T rating.
As per Section 714.5.1.2 Through-penetration firestop system of the 2020 IBCNYS.

17. Penetrations of horizontal assemblies without a required fire-resistance rating shall meet the requirements of Section 707 of the 2020 IBCNYS or shall comply with Sections 302.2.3.2.1 through 302.2.3.2.2. As per Section 302.2.3.2 Nonfire-resistance-rated assemblies.

2020 MECHANICAL CODE AND BUILDING CODE OF NEW YORK STATE:

18. Noncombustible penetrating items that connect not more than five stories are permitted, provided that the annular space is filled to resist the free passage of flame and the products of combustion with an approved noncombustible material or with a fill, void or cavity material that is tested and classified for use in through-penetration firestop systems. As per Section 714.6.1 Noncombustible penetrating items of the 2020 IBCNYS.

19. Penetrating items that connect not more than two stories are permitted, provided that the annular space is filled with an approved material to resist the free passage of flame and the products of combustion. As per Section 714.6.2 Penetrating items of the 2020 IBCNYS.

20. Hangers and anchors shall be attached to the building construction in an approved manner. As per Section 305.3 Structural attachment.

21. Piping shall be supported at distances not exceeding the spacing specified in Table 305.4, or in accordance with ANSI/MSS SP-69. As per Section 305.4 Interval of support.

22. Truss members and components shall not be cut, drilled, notched, spliced or otherwise altered in any way without written concurrence and approval of a registered design professional. Alterations resulting in the addition of loads to any member, such as HVAC equipment and water heaters, shall not be permitted without verification that the truss is capable of supporting such additional loading. As per Section 302.4 of the 2020 IMCNYS Alteration to trusses.

23. The cutting, notching and boring of steel framing members shall comply with Sections 302.5.1 through 302.5.3. As per Section 302.5 of the 2020 IMCNYS Cutting, notching and boring in steel framing.

24. The cutting, notching and boring of holes in structural steel framing members shall be as prescribed by the registered design professional. As per Section 302.5.1 of the 2020 IMCNYS Cutting, notching and boring holes in structural steel framing.

25. Flanges and lips of load-bearing cold-formed steel framing members shall not be cut or notched. Holes in webs of load-bearing cold-formed steel framing members shall be permitted along the centerline of the web of the framing member and shall not exceed the dimensional limitations, penetration spacing or minimum hole edge distance as prescribed by the registered design professional. Cutting, notching and boring holes of steel floor/roof decking shall be as prescribed by the registered design professional. As per Section 302.5.2 of the 2020 IMCNYS Cutting, notching and boring holes in cold-formed steel framing.

26. Flanges and lips of nonstructural cold-formed steel wall studs shall not be cut or notched. Holes in webs of nonstructural cold-formed steel wall studs shall be permitted along the centerline of the web of the framing member, shall not exceed 1-1/2 inches (38 mm) in width or 4 inches (102 mm) in length, and shall not be spaced less than 24 inches (610 mm) center to center from another hole or less than 10 inches (254 mm) from the bearing end. As per Section 302.5.3 of the 2020 IMCNYS Cutting, notching and boring holes in non-structural cold-formed steel wall framing.

TABLE 305.4 - PIPING SUPPORT SPACING (a)

PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (FEET)	MAXIMUM VERTICAL SPACING (FEET)
ABS PIPE	4	10 (c)
ALUMINUM PIPE AND TUBING	10	15
CAST-IRON PIPE (b)	5	15
COPPER OR COPPER-ALLOY PIPE	12	10
COPPER OR COPPER-ALLOY TUBING	8	10
CPVC PIPE OR TUBING, 1 INCH AND SMALLER	3	10 (c)
CPVC PIPE OR TUBING, 1¼ INCHES AND LARGER	4	10 (c)
LEAD PIPE	CONTINUOUS	4
PB PIPE OR TUBING	2⅔ (32 INCHES)	4
PE-RT 1 INCH AND SMALLER	2⅔ (32 INCHES)	10 (c)
PE-RT 1¼ INCHES AND LARGER	4	10 (c)
PEX TUBING 1 INCH AND SMALLER	2⅔ (32 INCHES)	10 (c)
PEX TUBING 1¼ INCHES AND LARGER	4	10 (c)
POLYPROPYLENE (PP) PIPE OR TUBING, 1 INCH AND SMALLER	2⅔ (32 INCHES)	10 (c)
POLYPROPYLENE (PP) PIPE OR TUBING, 1¼ INCHES AND LARGER	4	10 (c)
PVC PIPE	4	10 (c)
STEEL TUBING	8	10
STEEL PIPE	12	15

a. See Section 301.18.
b. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.
c. Mid-story guide.

29. Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). As per Section 307.1 of the 2020 IMCNYS Fuel-burning appliances.

30. Heating and cooling system design loads for the purpose of sizing systems, appliances and equipment shall be determined in accordance with the procedures described in the ASHRAE/ACCA Standard 183. Alternatively, design loads shall be determined by an approved equivalent computation procedure, using the design parameters specified in Chapter 3 [CE] of the Energy Conservation Construction Code of New York State. As per Section 312.1 of the 2020 IMCNYS Load Calculations.

31. Ventilation systems shall be designed to have the capacity to supply the minimum outdoor airflow rate determined in accordance with Table 403.3.1.1 based on the occupancy of the space and the occupant load or other parameter as stated therein. The occupant load utilized for design of the ventilation system shall not be less than the number determined from the estimated maximum occupant load rate indicated in Table 403.3.1.1. Ventilation rates for occupancies not represented in Table 403.3.1.1 shall be determined by an approved engineering analysis. The ventilation system shall be designed to supply the required rate of ventilation air continuously during the period the building is occupied, except as otherwise stated in other provisions of the code.
Exception: The occupant load is not required to be determined based on the estimated maximum occupant load rate indicated in Table 403.3.1.1 where approved statistical data document the accuracy of an alternate anticipated occupant density. As per Section 403.3.1.1 of the 2020 IMCNYS Ventilation rate.

2020 MECHANICAL CODE AND BUILDING CODE OF NEW YORK STATE:

32. Ducts and air transfer openings that penetrate fire barriers shall be protected with listed fire dampers installed in accordance with their listing. Ducts and air transfer openings shall not penetrate enclosures for interior exit stairways and ramps and exit passageways except as permitted by Sections 1023.5 and 1024.6, respectively, of the 2020 International Building Code of NYS.
Exception: Fire dampers are not required at penetrations of fire barriers where any of the following apply:
1. Penetrations are tested in accordance with ASTM E 119 or UL 263 as part of the fire-resistancerated assembly.
2. Ducts are used as part of an approved smoke control system in accordance with Section 513 and where the fire damper would interfere with the operation of the smoke control system.
3. Such walls are penetrated by ducted HVAC systems, have a requiredfire-resistance rating of 1 hour or less, are in areas of other then Group H and are in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.1.1 or 903.1.2 of the 2020 International Building Code of NYS. For the purposes of this exception, a ducted HVAC system shall be a duct system for the structure's HVAC system. Such a duct system shall be constructed of sheet steel not less than 26 gage [0.017 inch (0.55mm)] thickness and shall be continuous from the air-handling appliance or equipment to the air outlet and inlet terminals.

DATE: ISSUE
7.18.22 FOR BID

SEAL:



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215 ROANOKE AVENUE
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TAPPAN FIRE DISTRICT
135 WASHINGTON STREET
TAPPAN NY, 10983

MECHANICAL NOTES

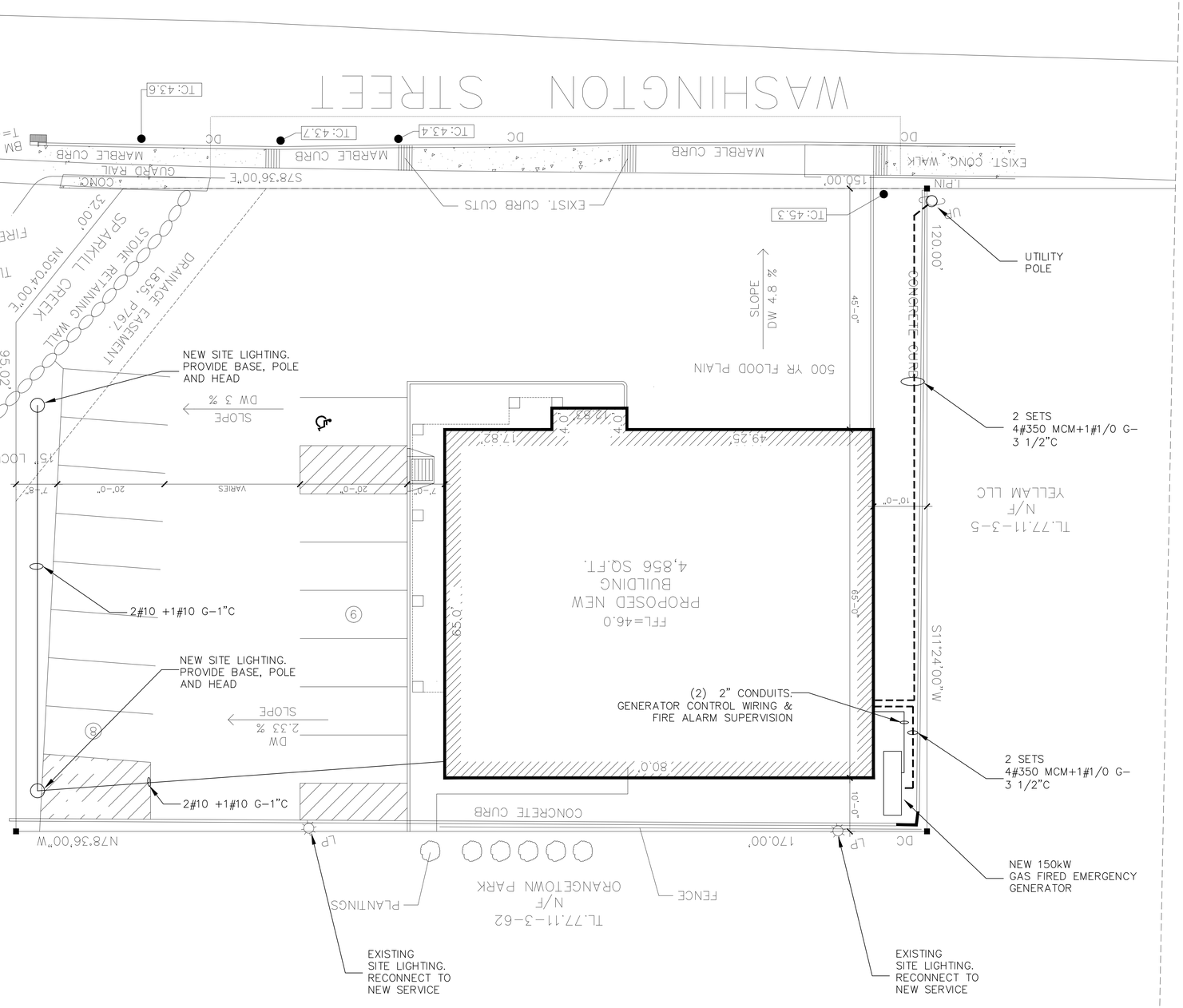
PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

M-10



ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

DRAWING LIST:

E-1	ELECTRICAL SITE PLAN
E-2	ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES
E-3	FIRST FLOOR POWER PLAN
E-4	SECOND FLOOR / ROOF POWER PLAN
E-5	FIRST FLOOR LIGHTING PLAN
E-6	SECOND FLOOR / ROOF LIGHTING PLAN
E-7	FIRST FLOOR MISCELLANEOUS SYSTEMS
E-8	SECOND FLOOR / ROOF MISCELLANEOUS SYSTEMS
E-9	COMPUTER SYSTEM RISER DIAGRAM
E-10	TELEPHONE & TV RISER DIAGRAMS
E-11	ACCESS SYSTEM RISER DIAGRAM
E-12	SURVEILLANCE SYSTEM RISER DIAGRAM
E-13	PA RISER DIAGRAM
E-14	RADIO & WIFI RISER DIAGRAM
E-15	IT ROOM PLAN & DETAILS
E-16	FIRE ALARM RISER DIAGRAM

SCOPE OF WORK:

THIS INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 70, NYS ENERGY CONSERVATION CODE, NYS BUILDING CODE AND ANY OTHER JURISDICTION HAVING AUTHORITY. ELECTRICIAN SHALL SECURE ALL PERMITS, CERTIFICATES, LICENSES, ETC. AND PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF ELECTRICAL ITEMS AS INDICATED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- APPLY FOR AND OBTAIN ELECTRICAL PERMITS TO MEET REQUIREMENTS OF THIS PROJECT.
- PROVIDE AND INSTALL NEW UNDERGROUND 600A 3PH 120v/208v PROVIDE UNDERGROUND SERVICE FROM UTILITY POLE TO BUILDING. COORDINATE WITH UTILITY COMPANY.
- INSTALL NEW METER AND MAIN DISCONNECT FOR THE BUILDING. INCLUDE NEW MDP, POWER PANELS AS INDICATED.
- PROVIDE AND INSTALL ALL RACEWAYS, PANEL BOARDS, WIRING, JUNCTION BOXES, DISCONNECTS, ETC.
- PROVIDE AND INSTALL ALL FIXTURES, LAMPS, CIRCUITS AND CONDUITS.
- PROVIDE AND INSTALL WALL SWITCHES, RECEPTACLES, LIGHTING CONTROLS, TIME CLOCKS, INTERIOR, EXTERIOR AND SITE LIGHTING.
- PROVIDE ALL PRIMARY POWER WIRING IN METAL CONDUIT FOR MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, FIRE ALARM. COORDINATE WITH TRADE CONTRACTORS.
- PROVIDE CONTROL WIRING AND CONDUIT FOR MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT AND CONTROLS. COORDINATE WITH TRADE CONTRACTORS.
- PROVIDE A BACKUP 150kW GENERATOR SYSTEM WITH AUTOMATIC TRANSFER SWITCH FOR ENTIRE BUILDING SERVICE.
- PROVIDE AND INSTALL ALL INDICATED MISCELLANEOUS SYSTEMS AS SPECIFIED WHICH INCLUDES ALL WIRING AND TERMINATION DEVICE OR FIXTURE.
- PROVIDE AN ADD/ALT FOR THE INCLUSION OF A SNOW MELT SYSTEM. PROVIDE POWER FOR BOILER, PUMPS AND CONTROLS.

ALL EXTERIOR SITE LIGHTING SHALL BE ON A TIMECLOCK. TORK MODEL EWZ201C.

ADDED CLARIFICATION

DATE: ISSUE

7.18.22 FOR BID

SEAL:

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TAPPAN NY, 10983

ELECTRICAL SITE PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

E-1

SCHEDULE FOR: PANEL MDP

Voltage: 208 / 120 V | MLO | X Equip. Ground Bus | Poles: 42 | Min CB IC: 65,000 AIC
Main Bus: 600 A | X MCB 600 A | Isol. Ground Bus | Mtg: Recessed | Comments:

Ckt #	Serves	Load VA	Breaker P	Breaker Trip	Minimum Branch Circuit	Phase A	Phase B	Phase C	Minimum Branch Circuit	Breaker Trip	Breaker P	Load VA	Serves	Ckt #
1	ELEVATOR	26659	3	350	4#350,#350G,	42732			4#3/0,#4G,2"C	200	3	16073	PP1	2
3		26659			3-1/2"C		42732					16073		4
5		26659						42732				16073		6
7	PP3	4216	3	200	4#3/0,#4G,2"C	21724			4#3/0,#4G,2"C	200	3	17508	PP2	8
9		4216					21724					17508		10
11		4216						21724				17508		12
13	FIRE ALARM PANEL	500	1	20	3#12,#12G,3/4"C	2372			3#6,#8G,1"C	40	1	1872	AIR COMP.	14
15	ELEVATOR CONTROL CIRC.	500	1	15	3#12,#12G,3/4"C		2372					1872		16
17								1008	3#12,#12G,3/4"C	15	1	1008	SNOW MELT BLR/PUMP	18
19						582			3#12,#12G,3/4"C	15	1	582	SNOW MELT PUMP	20
21							582					582		22
23								0						24
25						0							ADDED ADD/ALT	26
27							0							28
29								0						30
31						0								32
33							0							34
35								0						36
37						0			3#12,#12G,3/4"C	20	3		SURGE PROTECTOR	38
39							0							40
41								0						42
						67410	67410	65464	VA per phase					
						561.8	561.8	545.5	Amps per phase					

Total Connected Load (VA): 200284 — Total Connected Load (Amps): 556

SCHEDULE FOR: PANEL PP1

Voltage: 208 / 120 V | MLO | X Equip. Ground Bus | Poles: 60 | Min CB IC: 65,000 AIC
Main Bus: 225 A | X MCB 200 A | Isol. Ground Bus | Mtg: RECESSED | Comments:

Ckt #	Serves	Load VA	Breaker P	Breaker Trip	Minimum Branch Circuit	Phase A	Phase B	Phase C	Minimum Branch Circuit	Breaker Trip	Breaker P	Load VA	Serves	Ckt #
1	APP BAY REC	720	1	20	2#12, #12G, 3/4"C	1080			2#12, #12G, 3/4"C	15	1	360	RED ALERT	2
3	APP BAY BENCH REC	360	1	20	2#12, #12G, 3/4"C		1560		2#12, #12G, 3/4"C	20	1	1200	GEAR RACK	4
5	GEAR AREA REC	540	1	20	2#12, #12G, 3/4"C			1501	2#12, #12G, 3/4"C	20	3	961	GEAR WASHER	6
7	GEAR AREA LOCKERS	1080	1	20	2#12, #12G, 3/4"C	2041						961		8
9	GEAR AREA LOCKERS	1080	1	20	2#12, #12G, 3/4"C		2041					961		10
11	NORTH APP BAY MONITORS	720	1	20	2#12, #12G, 3/4"C			1800	2#12, #12G, 3/4"C	20	1	1080	WH-1 &2	12
13	NORTH APP BAY REC	720	1	20	2#12, #12G, 3/4"C	1080			2#12, #12G, 3/4"C	15	1	360	P-1 RECIRC PUMP	14
15	EAST APP BAY EXT REC	360	1	20	2#12, #12G, 3/4"C		3792		2#8, #10G, 3/4"C	40	2	3432	WH-3 POU	16
17	DRINKING FTN	500	1	15	2#12, #12G, 3/4"C			3932				3432		18
19	DRINKING FTN	500	1	15	2#12, #12G, 3/4"C	3932			2#8, #10G, 3/4"C	40	2	3432	WH-4 POU	20
21	BATH REC	180	1	20	2#12, #12G, 3/4"C		3612					3432		22
23	BATH REC	180	1	20	2#12, #12G, 3/4"C			680	2#12, #12G, 3/4"C	20	1	500	KIT FRIDGE	24
25	KIT REC	180	1	20	2#12, #12G, 3/4"C	4740			2#6, #10G, 1"C	40	2	4560	KIT STOVE	26
27	KIT REC	180	1	20	2#12, #12G, 3/4"C		4740					4560		28
29	KIT REC	360	1	20	2#12, #12G, 3/4"C			1080	2#12, #12G, 3/4"C	20	1	720	KIT REC	30
31	KIT REC	180	1	20	2#12, #12G, 3/4"C	540			2#12, #12G, 3/4"C	15	1	360	KIT MONITORS	32
33	KIT HOOD	500	1	15	2#12, #12G, 3/4"C		1400		2#12, #12G, 3/4"C	20	1	900	KIT EXTERIOR/ LOBBY	34
35	ASSOC RM REC	720	1	20	2#12, #12G, 3/4"C			900	2#12, #12G, 3/4"C	20	1	180	JAN REC	36
37	ASSOC RM REC	540	1	20	2#12, #12G, 3/4"C	1350			2#12, #12G, 3/4"C	20	1	810	OFFICERS RM REC	38
39	CHIEF OFF REC	900	1	20	2#12, #12G, 3/4"C		1710		2#12, #12G, 3/4"C	20	1	810	OFFICERS RM REC	40
41	CHIEF OFF REC	1080	1	20	2#12, #12G, 3/4"C			1620	2#12, #12G, 3/4"C	20	1	540	WEST EXT REC	42
43	RADIO RM	540	1	20	2#12, #12G, 3/4"C	1080			2#12, #12G, 3/4"C	20	1	540	1ST FL CORR	44
45	RADIO RM	540	1	20	2#12, #12G, 3/4"C		1050		2#12, #12G, 3/4"C	20	1	510	1ST FL S. LTG	46
47	RADIO RM	360	1	20	2#12, #12G, 3/4"C			958	2#12, #12G, 3/4"C	20	1	598	1ST FL N. LTG	48
49	SITE LTG	500	1	20	2#12, #12G, 3/4"C	1110			2#12, #12G, 3/4"C	20	1	610	APP BAY LTG WEST	50
51	SITE LTG	500	1	20	2#12, #12G, 3/4"C		1000		2#12, #12G, 3/4"C	20	1	500	APP BAY LTG EAST	52
53	HAND DRYER	1500	1	15	2#10, #10G, 3/4"C			1900	2#12, #12G, 3/4"C	20	1	400	N. APP BAY EXTERIOR LTG	54
55	HAND DRYER	1500	1	M	2#10, #10G, 3/4"C	1500								56
57							0							58
59								0						60
						18453	20905	14371	VA per phase					
						153.8	174.2	119.8	Amps per phase					

Total Connected Load (VA): 53729 — Total Connected Load (Amps): 149

SCHEDULE FOR: PANEL PP2

Voltage: 208 / 120 V | MLO | X Equip. Ground Bus | Poles: 60 | Min CB IC: 65,000 AIC
Main Bus: 400 A | X MCB 400 A | Isol. Ground Bus | Mtg: RECESSED | Comments:

Ckt #	Serves	Load VA	Breaker P	Breaker Trip	Minimum Branch Circuit	Phase A	Phase B	Phase C	Minimum Branch Circuit	Breaker Trip	Breaker P	Load VA	Serves	Ckt #
1	APP BAY CEILING FAN	1296	3	15	4#12,#12G,3/4"C	5019			4#4,#8G,1-1/4"C	70	3	3723	HEAT PUMP SEC #1	2
3	VF-1	1296					5019					3723	HP-1	4
5		1296						5019				3723		6
7	HRV-1	2059	1	25	2#10,#10G,3/4"C	5782			4#4,#8G,1-1/4"C	70	3	3723	HEAT PUMP SEC #2	8
9		2059					5782					3723	HP-1a	10
11	SPARE		1	15				3723				3723		12
13	APP BAY UNIT HEATERS 1,2,3	1311	1	15	3#12,#12G,3/4"C	1619			3#12,#12G,3/4"C	15	1	308	EF-1, EF-2	14
15	APP BAY UNIT HEATERS 4,5	874	1	15	3#12,#12G,3/4"C		924		3#12,#12G,3/4"C	15	1	50	EF-3, EF-4	16
17	ATTIC UNIT HEATERS 6,7,8	1311	1	15	3#12,#12G,3/4"C			2346	3#12,#12G,3/4"C	15	2	1035	[redacted]	18
19	DH-1	1010	1	15	3#12,#12G,3/4"C	2045						1035		20
21	DH-2	1010	1	15	3#12,#12G,3/4"C		1391		3#12,#12G,3/4"C	15	2	381	FAN COILS FC-1,2,3	22
23	EUH-1 DELIVERY RM	1800	1	20	3#12,#12G,3/4"C			2181				381		24
25	EUH-2 REAR ENT	1000	3	15	3#12,#12G,3/4"C	1141			3#12,#12G,3/4"C	15	2	141	FAN COILS FC-4,5,6	26
27		1000					1141					141		28
29		1000						1381	3#12,#12G,3/4"C	15	2	381	FAN COILS FC-7,8,9	30
31	APP BAY DOOR	750	2	20	3#12,#12G,3/4"C	1131						381		32
33		750					1300		3#12,#12G,3/4"C	15	2	550	FAN COILS 10,11,12	34
35	APP BAY DOOR	750	2	20	3#12,#12G,3/4"C			1300				550		36
37		750				1110			3#12,#12G,3/4"C	15	2	360	HP-2 / FC-14	38
39	APP BAY DOOR	750	2	20	3#12,#12G,3/4"C		1110					360		40
41		750						1250	2#12,#12G,3/4"C	15	1	500	AIR/ELEC REELS	42
43	APP BAY CEILING FAN	1296	3	15		1796			2#12,#12G,3/4"C	15	1	500	AIR/ELEC REELS	44
45	VF-2	1296					1796		2#12,#12G,3/4"C	15	1	500	AIR/ELEC REELS	46
47		1296						1796	2#12,#12G,3/4"C	15	1	500	AIR/ELEC REELS	48
49	APP BAY CEILING FAN	1296	3	15		1936			2#12,#12G,3/4"C	15	1	640	HRV-1 CONTROLS	50
51	VF-3	1296					2796		2#10,#10G,3/4"C	15	1	1500	HAND DRYER	52
53		1296						2796	2#10,#10G,3/4"C	15	1	1500	HAND DRYER	54
55						0								56
57							0							58
59								0						60
						21579	21259	21792	VA per phase					
						179.8	177.2	181.6	Amps per phase					

ADDED FANS

Total Connected Load (VA): 64630 — Total Connected Load (Amps): 179

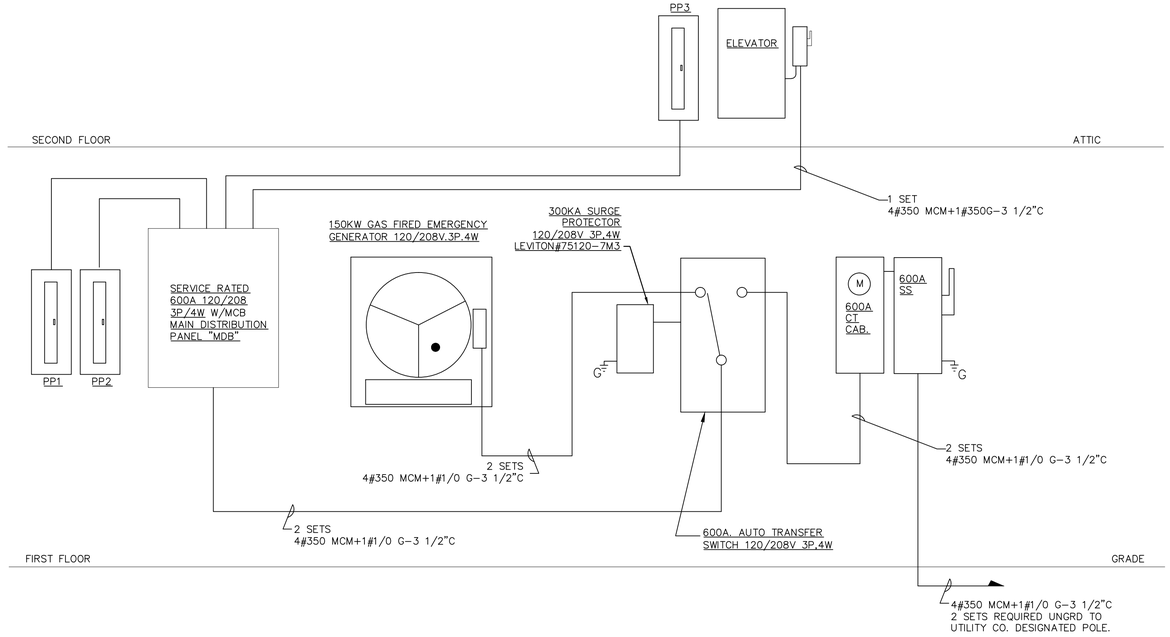
SCHEDULE FOR: PANEL PP3

Voltage: 208 / 120 V | MLO | X Equip. Ground Bus | Poles: 60 | Min CB IC: 65,000 AIC
Main Bus: 225 A | X MCB 200 A | Isol. Ground Bus | Mtg: RECESSED | Comments:

Ckt #	Serves	Load VA	Breaker P	Breaker Trip	Minimum Branch Circuit	Phase A	Phase B	Phase C	Minimum Branch Circuit	Breaker Trip	Breaker P	Load VA	Serves	Ckt #
1	MTG RM REC	720	1	20	2#12, #12G, 3/4"C	1800			2#12, #12G, 3/4"C	20	1	1080	FILE STORAGE	2
3	MTG RM REC	720	1	20	2#12, #12G, 3/4"C		900		2#12, #12G, 3/4"C	20	1	180	BATH REC	4
5	MTG RM REC	720	1	20	2#12, #12G, 3/4"C			900	2#12, #12G, 3/4"C	20	1	180	BATH REC	6
7	MTG RM PROJECTOR	360	1	20	2#12, #12G, 3/4"C	1080			2#12, #12G, 3/4"C	20	1	720	SEC/TREAS REC	8
9	MTG RM AV CL	360	1	20	2#12, #12G, 3/4"C		900		2#12, #12G, 3/4"C	20	1	540	SEC/TREAS REC	10
11	MTG RM AV CL	360	1	20	2#12, #12G, 3/4"C			1440	2#12, #12G, 3/4"C	20	1	1080	BOFC	12
13	MTG RM REC	540	1	20	2#12, #12G, 3/4"C	1260			2#12, #12G, 3/4"C	20	1	720	BOFC	14
15	2ND FL CORR REC	360	1	20	2#12, #12G, 3/4"C		1260		2#12, #12G, 3/4"C	20	1	900	N. ATTIC REC	16
17	IT RM REC	540	1	15	2#12, #12G, 3/4"C			900	2#12, #12G, 3/4"C	20	1	360	S. ATTIC REC	18
19	IT RM REC	360	1	15	2#12, #12G, 3/4"C	540			2#12, #12G, 3/4"C	20	1	180	BOFC FL REC	20
21	IT RM REC	360	1	20	2#12, #12G, 3/4"C		1320		2#12, #12G, 3/4"C	15	1	960	ATTIC FAN	22
23	2ND FL S. LTG	624	1	20	2#12, #12G, 3/4"C			724	2#12, #12G, 3/4"C	15	1	100	FLAG POLE LTG	24
25	2ND FL N. LTG	468	1	20	2#12, #12G, 3/4"C	468				20	1		SPARE	26
27	ATTIC LTG	217	1	20	2#12, #12G, 3/4"C		217			20	1		SPARE	28
29								0						30
31						0								32
33							0							34
35								0						36
37						0								38
39							0							40
41								0						42
43						0								44
45							0							46
47								0						48
49						0								50
51							0							52
53								0						54
55						0								56
57							0							58
59								0						60
						5148	4597	3964	VA per phase					
						42.9	38.3	33.0	Amps per phase					

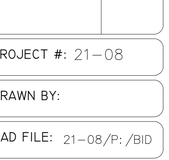
Total Connected Load (VA): 13709 — Total Connected Load (Amps): 38

REMOVED BUILDING ERV SYSTEM FROM SCOPE



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ELECTRICAL PANEL SCHEDULES & RISER DIAGRAM

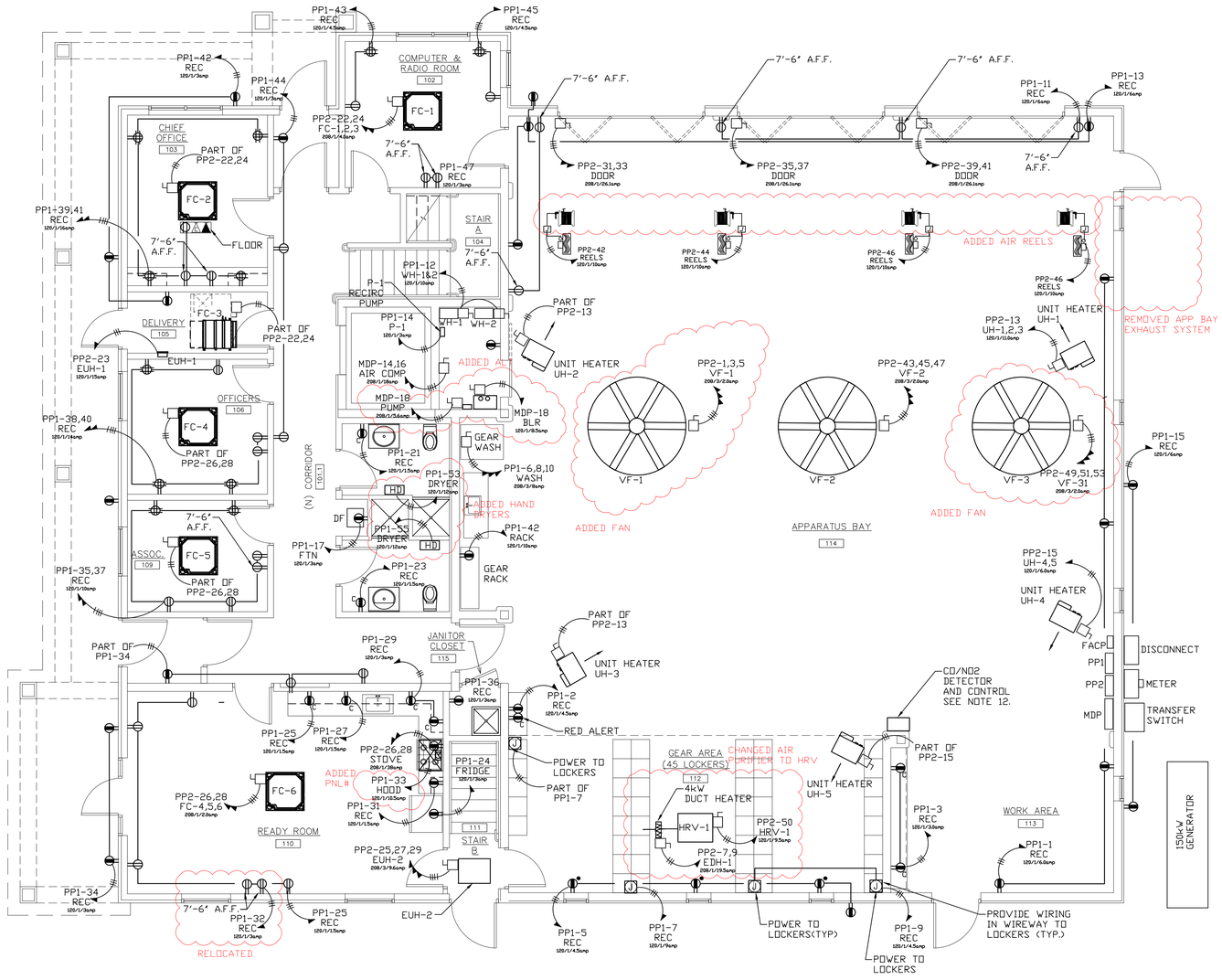
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E-2



SYMBOL LIST

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24"TO TOP OF RECP. UNLESS OTHERWISE NOTED) • DUPLEX RECEPTACLE EQUIPTED WITH USB CHARGING PORT,
	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUNDING TYPE (COMPUTER TYPE)
	QUAD RECEPTACLE GROUNDING TYPE, (MOUNTED (MOUNTED AT 24"TO TOP OF RECP. UNLESS OTHERWISE NOTED)
	DUPLEX RECEPTACLE (GROUND FAULT INTERUPTER TYPE) c = DENOTES COUNTER HEIGHT 42" (VERIFY HEIGHT WITH ARCHITECT.)
	PHONE/DATA/ POWER ALL DUPLEX JACKS ONE COVER PLATE W/DIVIDER
	HOMERUN TO DESIGNATED PANEL OR BOARD SLASHES INDICATE NUMBER OF WIRES FOR EACH CIRCUIT. ARROWS INDICATE NUMBER OF CIRCUITS.
	DISCONNECT SWITCH
	JUNCTION BOX (SIZE AS REQUIRED)
SWT	WIND-UP TIMER SWITCH
HD	ELECTRIC HAND DRYER EXCELERATOR TYPE # H-1927W SUPPLIED AND INSTALLED BY ELECTRICAL CNTR.

PLAN NOTES:
1. PROVIDE NEW POWER PANELS, MAIN SERVICE, TRANSFER SWITCH AND ALL ASSOCIATED WIRING AND CONDUIT.
2. NEW ELECTRIC SERVICE AND FEEDERS FOR ALL EQUIPMENT SHALL BE IN CONDUIT.
3. ALL EXTERIOR RECEPTACLES SHALL BE GFI. ALL WIRING SHALL BE IN CONDUIT.
4. BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.
5. VERIFY RECEPTACLE LOCATIONS, TYPES AND HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
7. CONNECTIONS TO ALL EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
8. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. ELECTRICIAN SHALL VERIFY CIRCUIT LOADS OF LIGHTING FIXTURES, POWER AND EQUIPMENT BEFORE CONNECTING NEW CIRCUITS TO NEW PANELS. ELECTRICIAN SHALL BE RESPONSIBLE FOR BALANCING LEGS.
9. ALL EQUIPMENT POWER AND CONTROL WIRING SHALL BE IN METAL CONDUIT.
10. ALL RECEPTACLES SHALL BE AFCI AND GFCI PROTECTED.
11. ELECTRICAL CONTRACTOR TO PROVIDE SHUNT TRIP BREAKER FOR ELEVATOR SERVICE. VERIFY WITH ELEV CONTRACTOR ADDITIONAL CIRCUITS REQUIRED FOR CAB AND CONTROLS.

12. DETECTOR SHALL BE INTERLOCKED WITH GARAGE DOORS. UPON ACTIVATION, THE GARAGE DOORS SHALL OPEN AND VENTILATION FANS TURNED ON. NOTIFICATION SHALL ALSO BE SENT TO THE FIRE ALARM CONTROL PANEL. INCLUDE RELAY AND DRY CONTACTS FOR INTERLOCK WITH GARAGE DOOR.
13. INCLUDE DUCT HEATER DISCONNECT FOR HRV-1.
14. PROVIDE FOUR HAND DRYERS XLERATOR MODEL # XL-BW-110
15. EMT MAY BE USED FOR CONDUIT DROPS.

ADDED HAND DRYERS AND ADDITIONAL CLARIFICATION NOTES.

FIRST FLOOR POWER PLAN

SCALE: 3/16" = 1'-0"

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FIRST FLOOR POWER PLAN

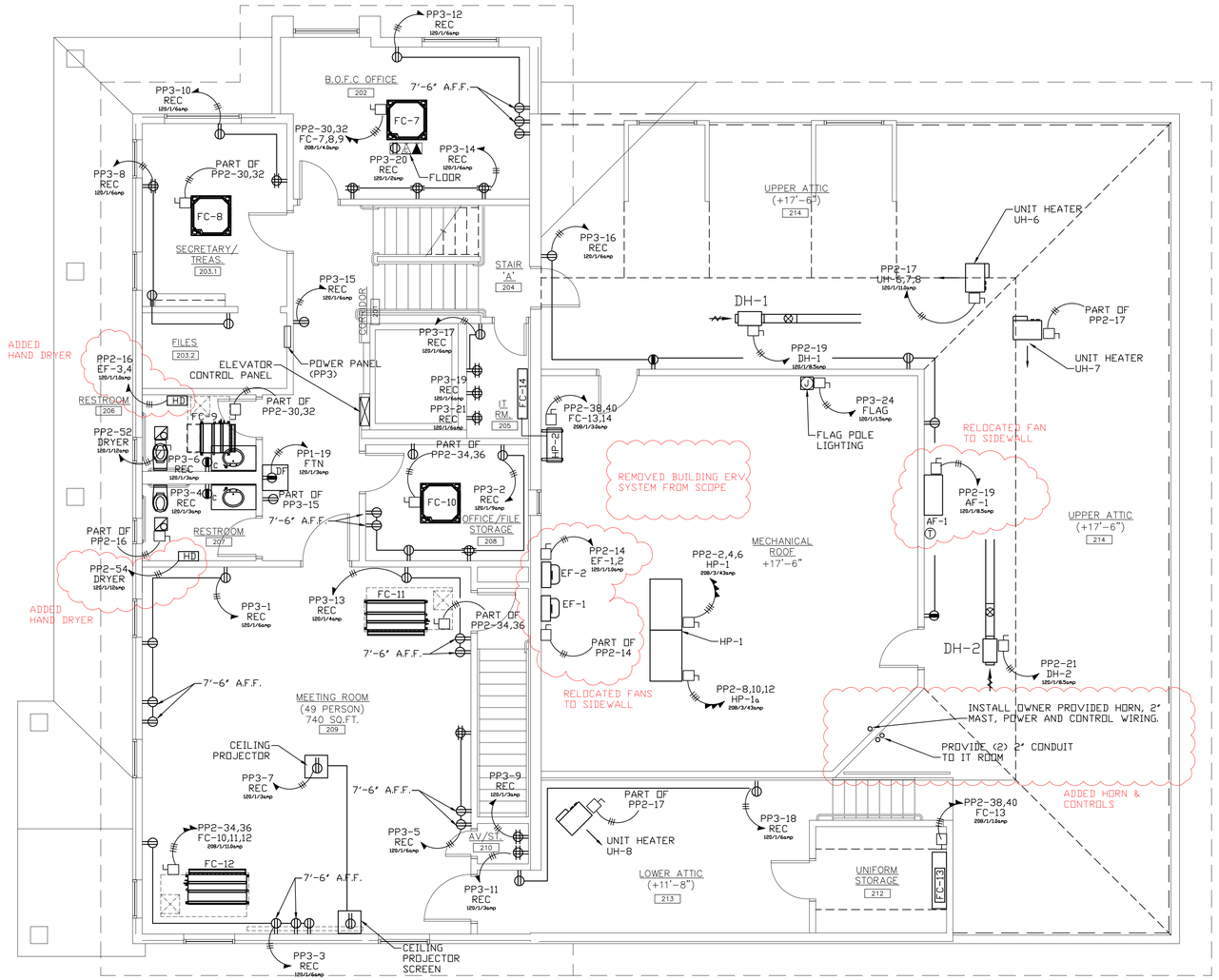
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E-3



SECOND FLOOR POWER PLAN

SCALE: 3/16" = 1'-0"

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SECOND FLOOR POWER PLAN

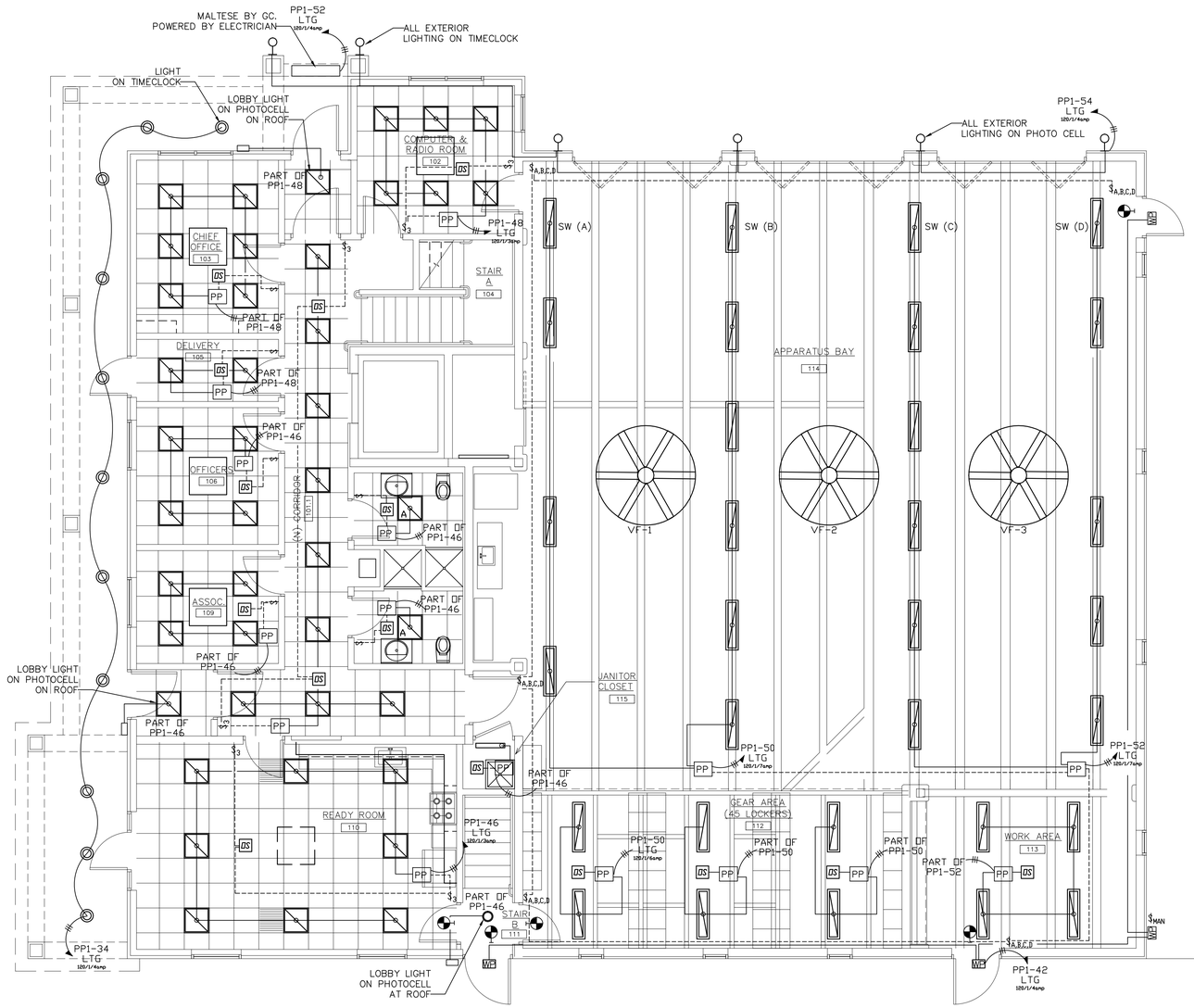
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E-4



FIRST FLOOR LIGHTING PLAN

SCALE: 3/16" = 1'-0"

1. ALL CONTROL WIRING FOR LIGHTING SHALL BE CAT-5. ALL OTHER WIRING SHALL BE CAT-7
2. ALL EXTERIOR LIGHTING SHALL BE ON TIMECLOCKS TORK MODEL EWZ201C 2 CHANNEL.
3. RE-USE (10) EXISTING LED LIGHTING FIXTURES FROM SUBSTATION. TO BE USED IN THE BATHROOMS, DELIVERY, 2ND FL FILE ROOM.

ADDED WIRING CLARIFICATION

GENERAL NOTES:
1. WHERE EXPOSED, ALL WIRING SHALL BE IN CONDUIT.
2. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
3. VERIFY ALL FINAL SWITCH LOCATIONS & TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
4. VERIFY FIXTURE TYPES WITH ARCHITECT PRIOR TO INSTALLATION. CONNECTIONS SHALL BE AS PER MANUFACTURERS REQUIREMENTS.
5. LED STRIP LIGHTING SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
6. ALL BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.

Washington Street
LIGHTING LEGEND

	4' LED PENDANT STEM MTD.W/PRISMATIC ACRYLIC LENS LUMAX LTG.#CDL-LED63L-35K-48-9-FAR-SX LENGTH OF STEM TO BE DETERMINED AT SITE
	LITHONIA LIGHTING EPANL 2X2 4000LM 80CRI 35K EPANL 2X2, 4000 NOMINAL LUMENS 33 WATTS
A	LITHONIA LIGHTING EPANL 2X2 2000LM 80CRI 35K EPANL 2X2, 3400 NOMINAL LUMENS (USED IN BATHROOMS) 30 WATTS
	GOTHAM ARCHITEC EVO6 35/15 AR WD LSS EVO 6IN ROUND, 80 CRI, 3500K. 35 WATTS
	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K EPANL 2X4, 4000 NOMINAL LUMENS 39 WATTS
	LED LANTERN TYPE FIXTURE WALL VISIONAIRE LTG #SRL-1-T3-16LC-3-4K-UNV-WM-BZ-PC-120 18 WATTS
	4' LED WALL MTD. W/PRISMATIC ACRYLIC LENS +EM PACK + OCC LUMAX # COSLED33L35K48-1-FAR-EM - 31 WATTS
	LITHONIA LIGHTING LED LINEAR 24" CLX L24 5000LM SEF 42 WATTS
WP	LED TYPE WALL WALL PACK WITH PHOTOCELL BARRON LIGHTING #TLED-NFM-42-VS-4K 42 WATTS
	LED EXIT SIGN FIXTURE LITHONIA LIGHTING EXRG EL M6. 1 WATT
PP	NLIGHT NPP16 D SA POWER/RELAY PACK
OS	NLIGHT NCM PDT 9 LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR
J	JUNCTION BOX
$(4)	NLIGHT NPOD LOW VOLTAGE WALL SWITCH.

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FIRST FLOOR
LIGHTING PLAN

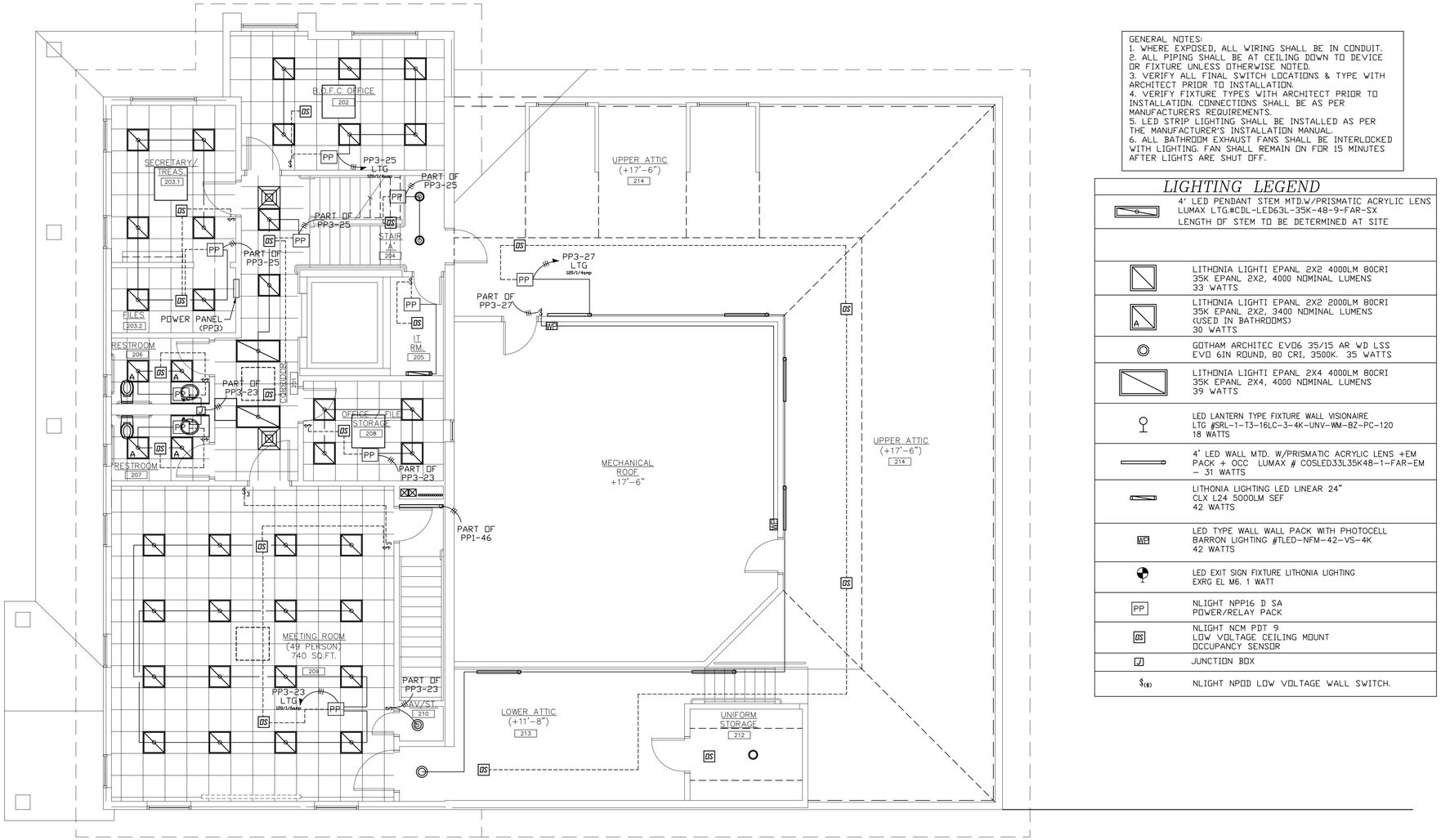
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E-5



GENERAL NOTES:
1. WHERE EXPOSED, ALL WIRING SHALL BE IN CONDUIT.
2. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
3. VERIFY ALL FINAL SWITCH LOCATIONS & TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
4. VERIFY FIXTURE TYPES WITH ARCHITECT PRIOR TO INSTALLATION. CONNECTIONS SHALL BE AS PER MANUFACTURERS REQUIREMENTS.
5. LED STRIP LIGHTING SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
6. ALL BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.

LIGHTING LEGEND

	4' LED PENDANT STEM MTD.W/PRISMATIC ACRYLIC LENS LUMAX LTG.#CDL-LED63L-35K-48-9-FAR-SX LENGTH OF STEM TO BE DETERMINED AT SITE
	LITHONIA LIGHTI EPANL 2X2 4000LM 80CRI 35K EPANL 2X2, 4000 NOMINAL LUMENS 33 WATTS
A	LITHONIA LIGHTI EPANL 2X2 2000LM 80CRI 35K EPANL 2X2, 3400 NOMINAL LUMENS (USED IN BATHROOMS) 30 WATTS
	GOTHAM ARCHITEC EVD6 35/15 AR WD LSS EVD 6IN ROUND, 80 CRI, 3500K. 35 WATTS
	LITHONIA LIGHTI EPANL 2X4 4000LM 80CRI 35K EPANL 2X4, 4000 NOMINAL LUMENS 39 WATTS
	LED LANTERN TYPE FIXTURE WALL VISIONAIRE LTG #SRL-1-T3-16LC-3-4K-UNV-WM-BZ-PC-120 18 WATTS
	4' LED WALL MTD. W/PRISMATIC ACRYLIC LENS +EM PACK + OCC LUMAX # COSLED33L35K48-1-FAR-EM - 31 WATTS
	LITHONIA LIGHTING LED LINEAR 24" CLX L24 5000LM SEF 42 WATTS
WP	LED TYPE WALL WALL PACK WITH PHOTOCELL BARRON LIGHTING #TLED-NFM-42-VS-4K 42 WATTS
	LED EXIT SIGN FIXTURE LITHONIA LIGHTING EXRG EL M6. 1 WATT
PP	NLIGHT NPP16 D SA POWER/RELAY PACK
OS	NLIGHT NCM PDT 9 LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR
J	JUNCTION BOX
$(6)	NLIGHT NPOD LOW VOLTAGE WALL SWITCH.

SECOND FLOOR LIGHTING PLAN

SCALE: 3/16" = 1'-0"

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SECOND FLOOR
LIGHTING PLAN

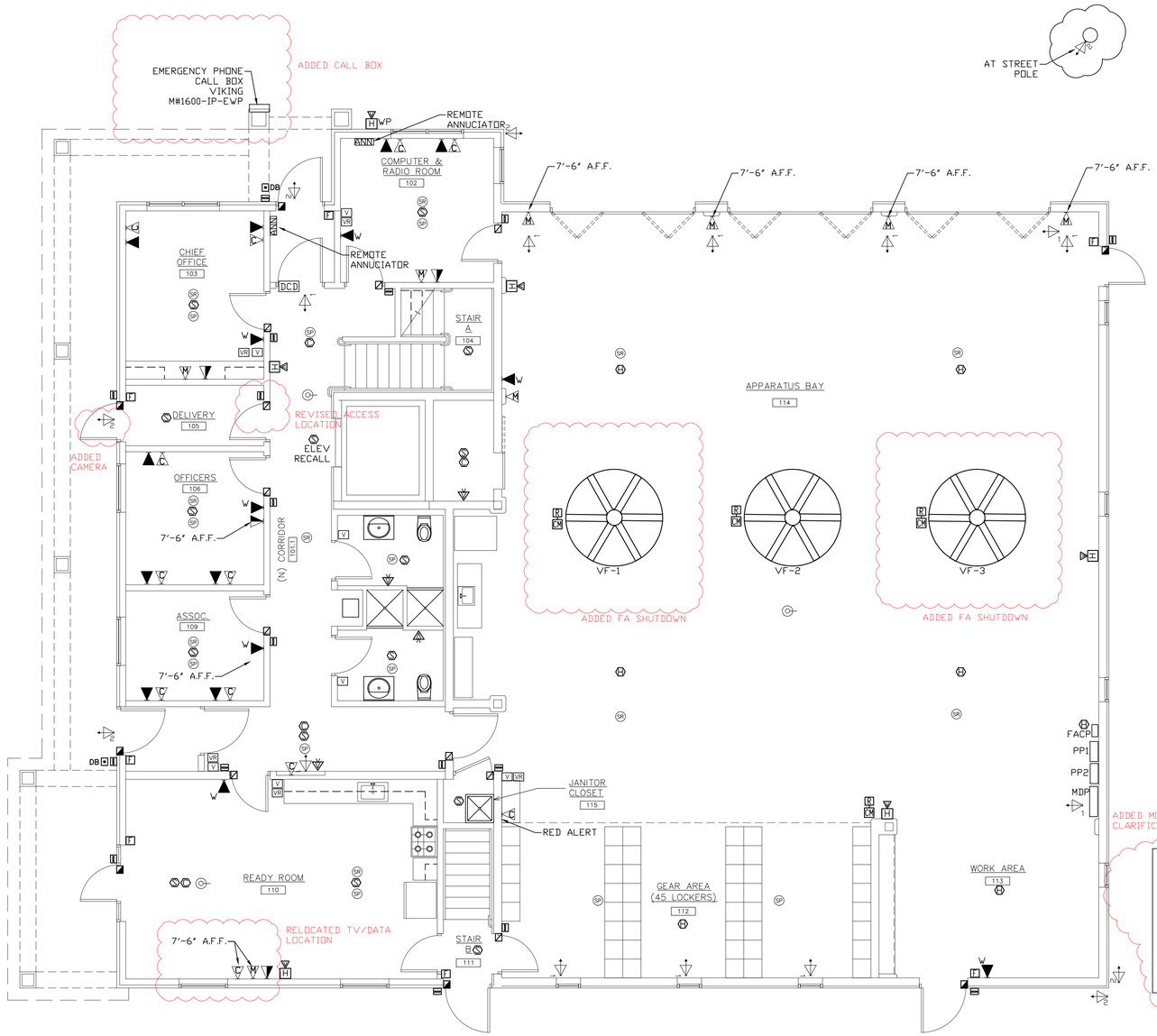
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E-6



SYMBOL LIST

- CABLE TV OUTLET(MTD. @ 7'-6"AFF)UNLESS NOTED WIRE SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR TO COMPUTER IT ROOM. TERMINATE W/2-CAT 6 WIRE WHITE. VERIFY W/CABLE CO
- COMPUTER OUTLET(DUPLEX)(MTD.@2'-0"AFF) ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL CMPTR.. WIRE CAT 6(BLUE) TO COMPUTER RM FROM EACH OUTLET. TERMINATE AT PUNCH BLOCK
- TELEPHONE OUTLET(MTD.@2'-0"AFF.) W = WALL MTD. (MTD.@64"AFF) ELECTRICAL CONTRACTOR WILL SUPPLY AND INSTALL 2 CAT 6 WIRE GREY FROM EACH TELEPHONE OUTLET TO COMPUTER RM.TERMINATE AT PUNCH BLOCK
- INTERIOR DOOR ELECTRIC STRIKE
- EXTERIOR DOOR ELECTRIC STRIKE
- CARD READER(MTD. @ 48"AFF)WHERE APPLICABLE
- DB DOOR BELL & SPEAKER(PART OF ACCESS SYSTEM) ELECTRICAL CONTR. SHALL SUPPLY AND INSTALL WIRE,CDT,JBOXES ETC PLUS 18/4 TO TELEPHONE SYSTEM.
- NV SECURITY CAMERA 1 = DENOTES TYPE OF CAMERA(OUTDOOR) 2 = DENOTES TYPE OF CAMERA(INDOOR)
- LAN SYSYTEM ANTENNA ELECTRICAL CONTRACTOR WILL SUPPLY AND INSTALL 2CAT 6 WIRE GREY FROM EACH OUTLET TO COMPUTER ROOM. TERMINATE AT PUNCH BLOCK.
- DCD DOOR CONTROL DEVICE
- A1 DENOTES DOOR NUMBER AS SHOWN ON RISER DIAGRAM AND PLAN
- PHONE/DATA/ POWER ALL DUPLEX JACKS ONE COVER PLATE W/DIVIDER
- DATA/ POWER ALL DUPLEX JACKS ONE COVER PLATE W/DIVIDER CAT 5E WIRE BACK TO COMPUTER ROOM.
- FACP FIRE ALARM CONTROL PANEL
- ANN FIRE ALARM REMOTE ANNUNCIATOR PANEL
- STROBE
- H HORN/STROBE
- M MANUAL PULL STATION
- CM CONTROL MODULE WITH RELAY/CONTACTOR FOR HOOD
- SMOKE DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP
- CARBON MONOXIDE DETECTOR
- HEAT DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP
- SP MUSIC/PUBLIC ADDRESS SYSTEM SPEAKER W/18/4 FROM COMPUTER ROOM TO VOLUME CONTROL
- V CONTROL TO SPEAKER MUSIC/PUBLIC ADDRESS SYSTEM VOLUME CONTROLLER
- SR RADIO SYSTEM SPEAKER W/18/4+CAT 6 ORANGE FROM COMPUTER ROOM TO VOLUME
- VR VOLUME CONTROL TO SPEAKER RADIO SYSTEM VOLUME CONTROLLER
- M MONITOR OUTLET(DUPLEX)(MTD.@7'-6"AFF) ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL CMPTR. WIRE CAT 6(BLUE) TO COMPUTER RM FROM EACH OUTLET. TERMINATE AT PUNCH BLOCK

NOTE:
LOCATIONS SHOWN FOR ALL TELEPHONE,COMPUTER JACKS, CABLE TV, FIRE ALARM, ETC. ARE CONCEPTUAL-EXACT LOCATIONS TO BE COORDINATED WITH OWNER/ARCHITECT .

ALL WIRING FOR ACCESS, SURVEILANCE,TELEPHONE,CABLE TV, COMPUTER, FIRE ALARM,PUBLIC ADDRESS SYSTEMS TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CNTR. ALL CDT,BOXES ETC NEEDED TO FACILITATE INSTALLATION SHALL BE SUPPLIED AND INSTALLED BY ELECT. CNTR. ALL ROUTING TO 2ND FLOOR COMPUTER ROOM.

NOTE:
ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE VERIFIED WITH SUCCESSFUL SPECIALTY SYSTEMS VENDOR PRIOR TO PURCHASE OR INSTALLATION BY ELECTRICAL CONTRACTOR

NOTE:
ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE CERTIFIED BY ELECTRICAL CONTRACTOR.

NOTE:
OUTLETS SHOWN ON MISCELLANEOUS SYSTEMS PLANS ARE ALSO SHOWN ON POWER PLANS AND ARE NOT IN ADDITION TO OUTLETS SHOWN ON POWER PLANS

NOTE:
COORDINATE CONNECTION OF FAN SHUTDOWN WITH MECHANICAL CONTRACTOR.

ADDED CLARIFICATION

FIRST FLOOR MISCELLANEOUS SYSTEMS PLAN

SCALE: 3/16" = 1'-0"

DATE: ISSUE
7.18.22 FOR BID

SEAL:

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135 WASHINGTON STREET
TAPPAN NY, 10983

FIRST FLOOR
MISCELLANEOUS SYSTEMS PLAN

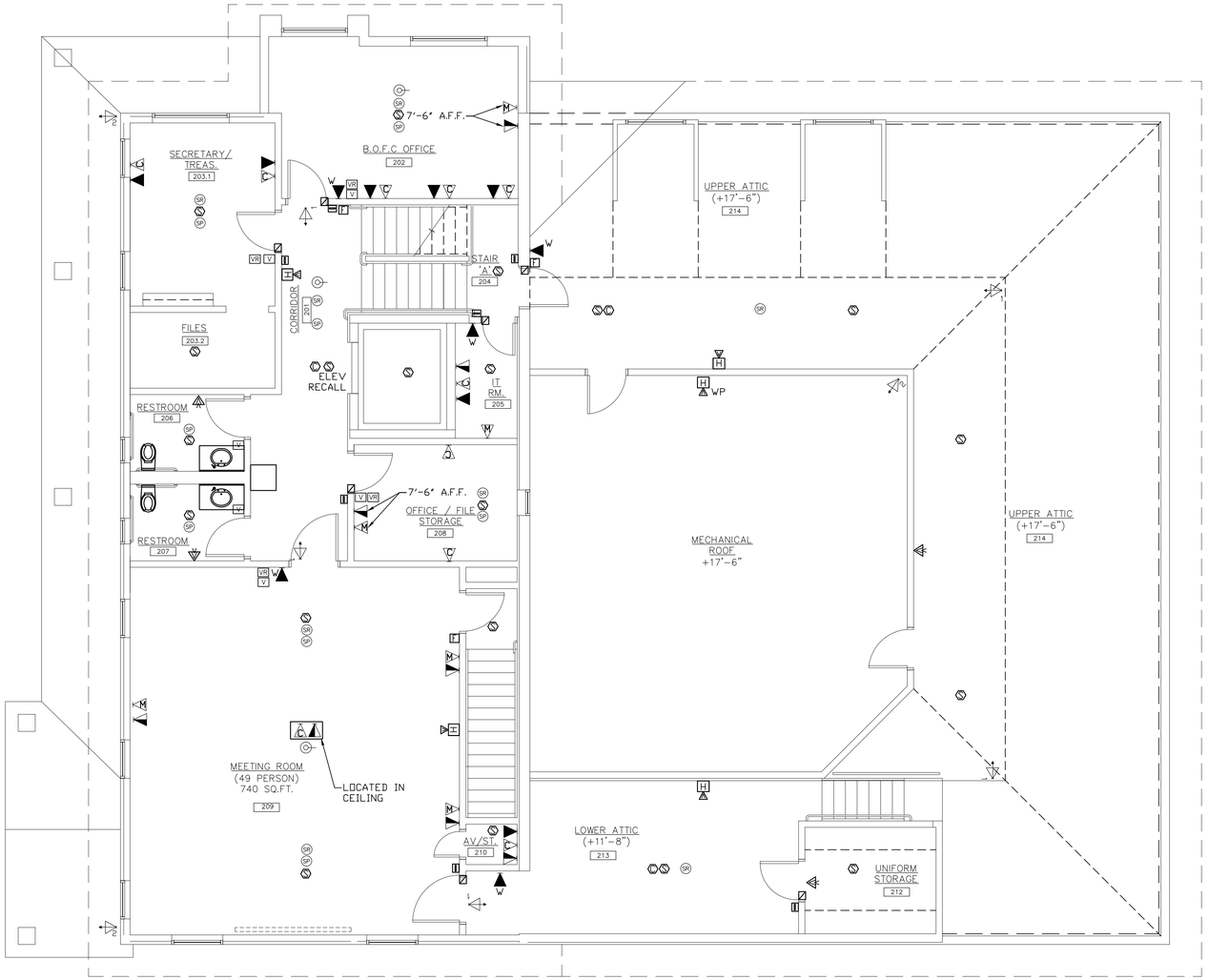
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E-7



SECOND FLOOR MISCELLANEOUS SYSTEMS PLAN

SCALE: 3/16" = 1'-0"

NOTE:
LOCATIONS SHOWN FOR ALL TELEPHONE,COMPUTER JACKS, CABLE TV ETC. ARE CONCEPTUAL-EXACT LOCATIONS TO BE COORDINATED WITH OWNER/ARCHITECT .

ALL WIRING FOR ACCESS, SURVEILANCE,TELEPHONE,CABLE TV, COMPUTER, FIRE ALARM,PUBLIC ADDRESS SYSTEMS TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CNTR. ALL CDT,BOXES ETC NEEDED TO FACILITATE INSTALLATION SHALL BE SUPPLIED AND INSTALLED BY ELECT. CNTR. ALL ROUTING TO 2ND FLOOR COMPUTER ROOM.

NOTE:
ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE VERIFIED WITH SUCCESSFUL SPECIALTY SYSTEMS VENDOR PRIOR TO PURCHASE OR INSTALLATION BY ELECTRICAL CONTRACTOR

NOTE:
ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE CERTIFIED BY ELECTRICAL CONTRACTOR.

NOTE:
OUTLETS SHOWN ON MISCELLANEOUS SYSTEMS PLANS ARE ALSO SHOWN ON POWER PLANS AND ARE NOT IN ADDITION TO OUTLETS SHOWN ON POWER PLANS

DATE: ISSUE
7.18.22 FOR BID

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SECOND FLOOR
MISCELLANEOUS SYSTEMS PLAN

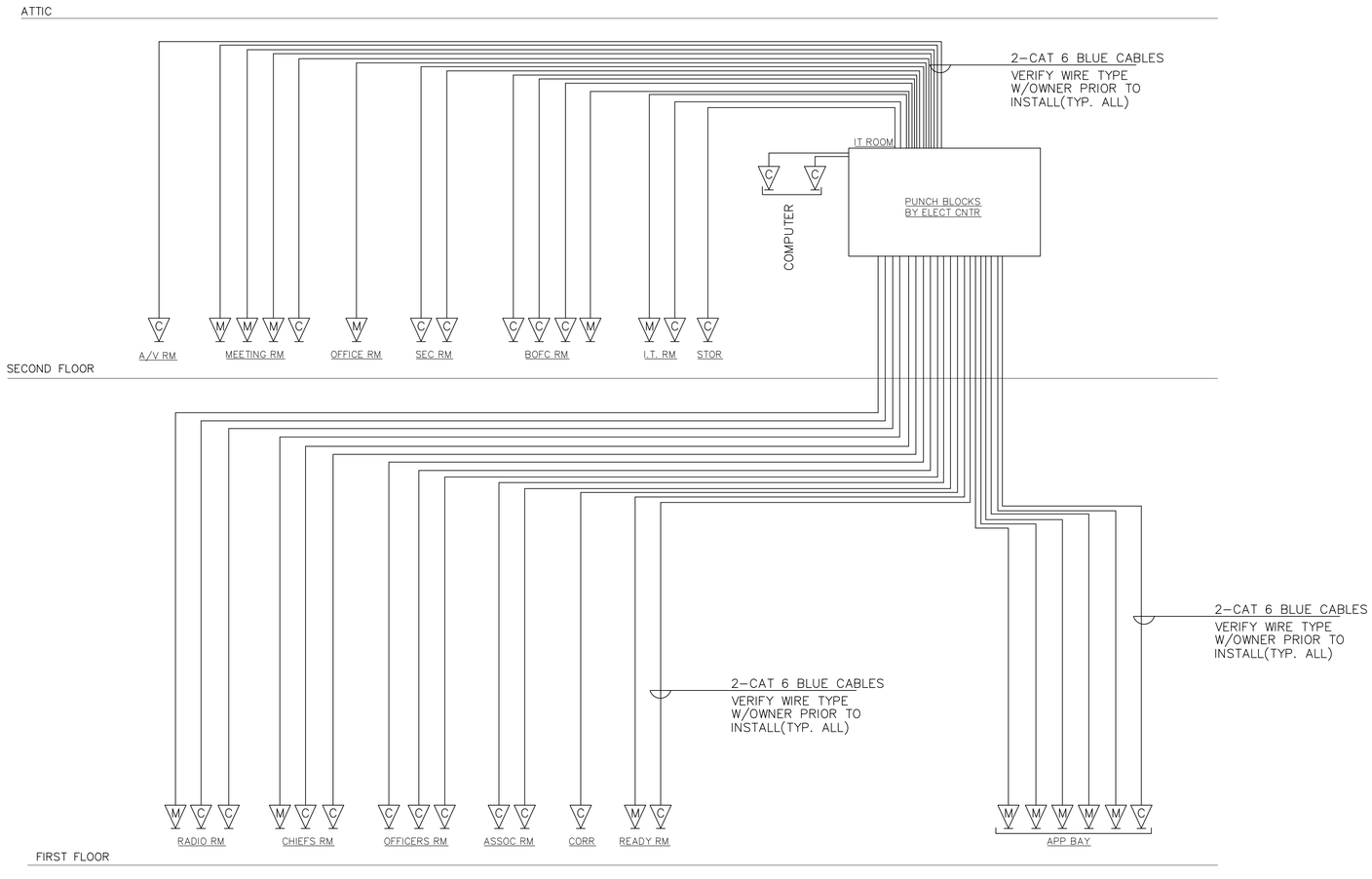
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E-8



NOTE:
ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRE,CONDUIT,BOXES ETC.TO MAKE COMPLETE SYS. ALL FINAL DEVICES TO BE WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. WIRING FOR LAN AND DATA SHALL INCLUDE WALL (OR CEILING) JACKS AND PLATES FULLY WIRED & LABELED

NOTE
ALL WIRING TO BE CERTIFIED BY ELECTRICAL CONTRACTOR

COMPUTER SYSTEM RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE
7.18.22 FOR BID

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COMPUTER SYSTEM
RISER DIAGRAM

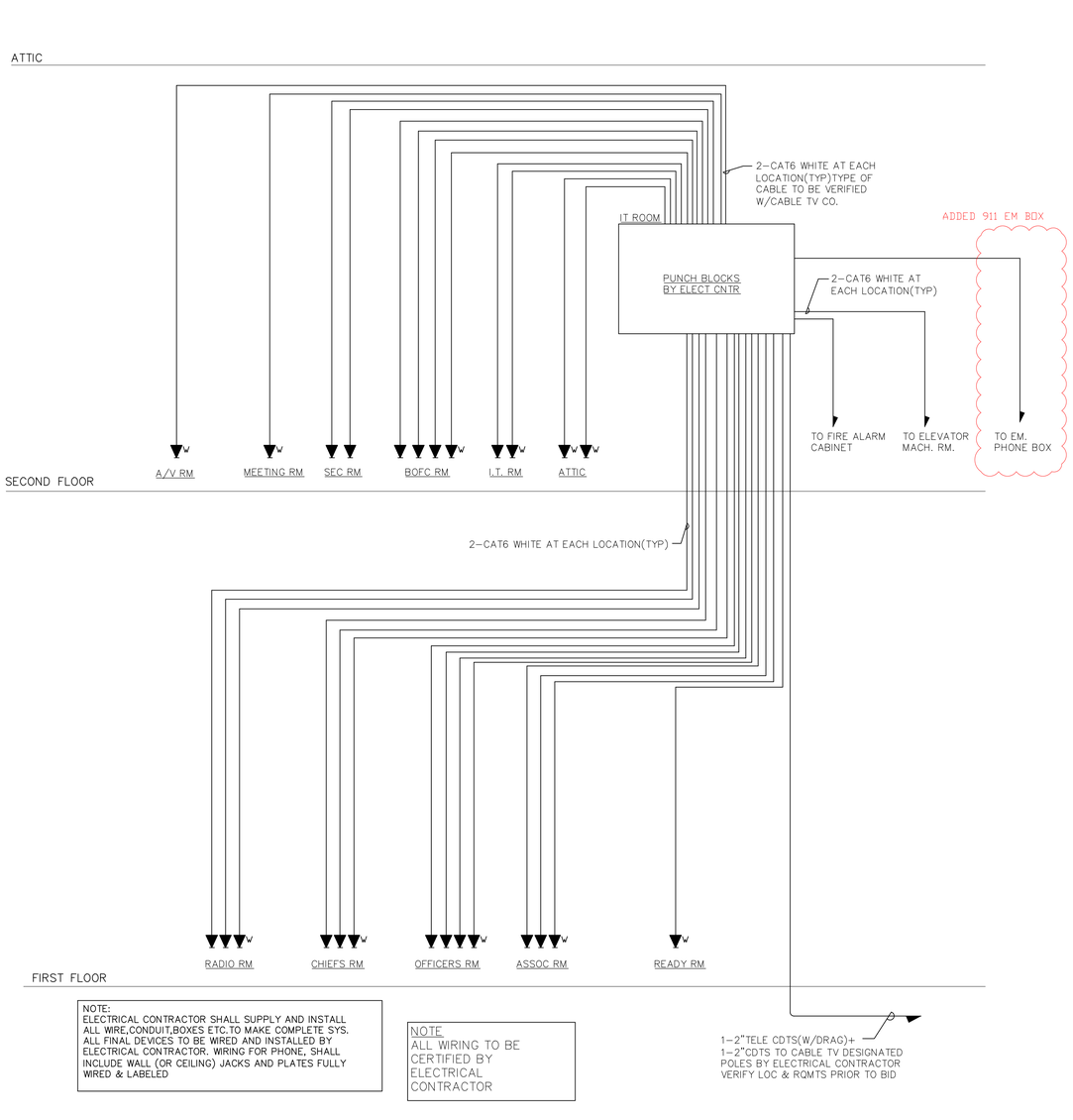
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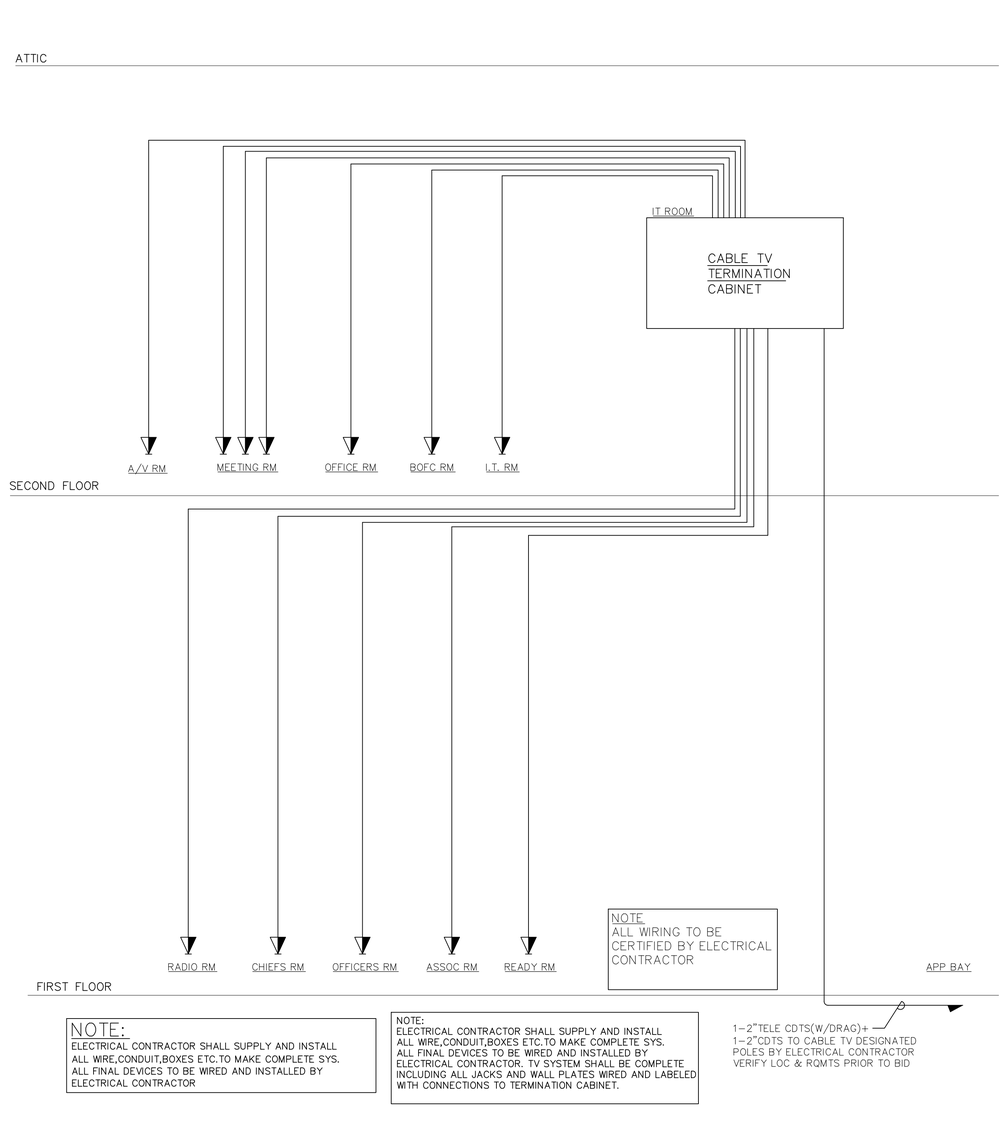
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CABLE TV AND TELEPHONE RISER DIAGRAMS

SCALE: N.T.S.

DATE: ISSUE
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CABLE TV AND TELEPHONE RISER DIAGRAMS

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DRAWING#:

E-10

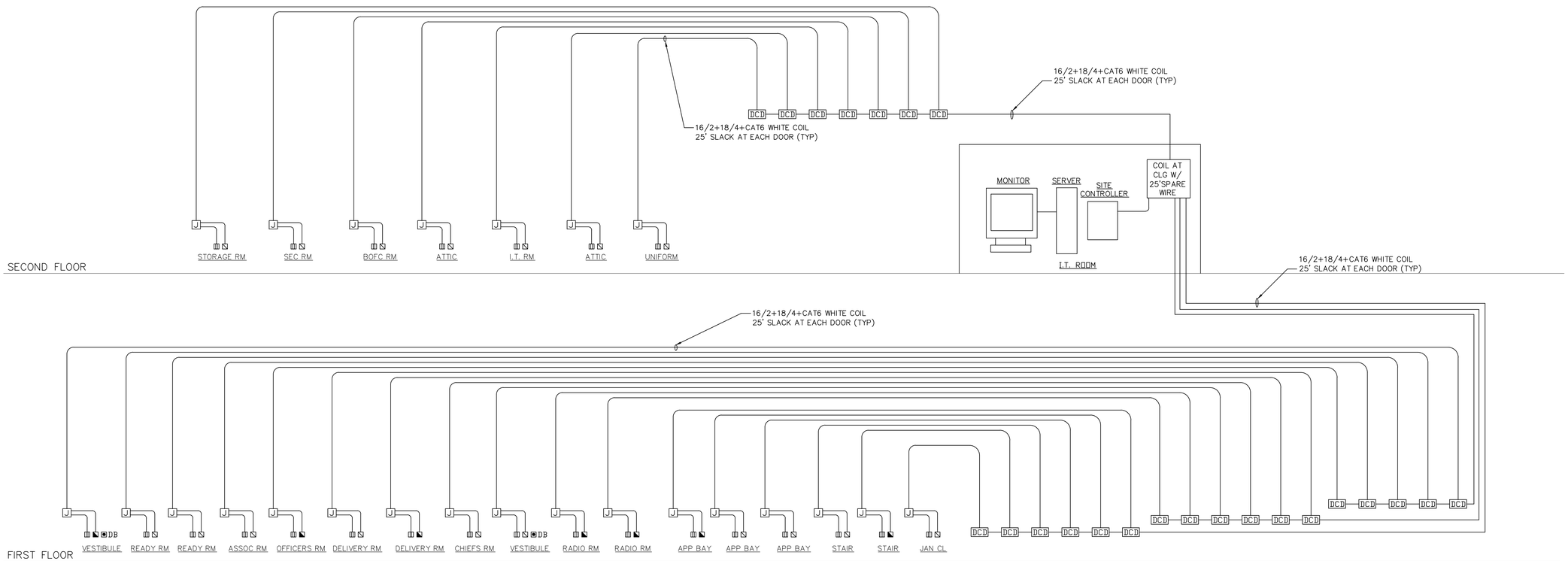
NOTE:
ALL WIRING TO BE CERTIFIED BY ELECTRICAL CONTRACTOR

NOTE:
ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRE,CONDUIT,BOXES ETC.TO MAKE COMPLETE SYS. ALL FINAL DEVICES TO BE WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR

NOTES:
1. ACCESS SYSTEM RUNS TO BE SHIELDED CABLE.
2. ACCESS SYSTEM WIRING TO BE AS FOLLOWS:
(A)– FROM COMPUTER SERVER ROOM TO BOX ABOVE DOORS (IN GROUPS UP TO 10 DOORS EACH RUN) 16/6 & 18/4. PROVIDE 12" LOOP OF WIRE IN BOX ABOVE DOOR, ACCESS VENDOR WILL CUT IN CONTROLLER.
(B)– FROM BOX ABOVE DOOR TO CARD READER BOX NEXT TO DOOR, 22/6.
(C)– FROM BOX ABOVE DOOR TO STRIKE IN DOOR FRAME 16/2.

ACCESS LEGEND

◪	EXTERIOR DOOR ELECTRIC STRIKE
◪	INTERIOR DOOR ELECTRIC STRIKE
▥	CARD READER (MTD. @ 48" A.F.F.) WHERE APPLICABLE
▣DB	DOOR BELL & SPEAKER (PART OF ACCESS SYSTEM) ELECTRICAL CONTR. SHAL SUPPLY AND INSTALL WIRE, CDT, JBOXES ETC PLUS 18/4 TO TELEPHONE SYSTEM.
DCD	DOOR CONTROL DEVICE
	DENOTES DOOR NUMBER AS SHOWN ON RISER DIAGRAM AND PLAN



ACCESS SYSTEM RISER DIAGRAM

SCALE: N.T.S.

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7.18.22 FOR BID

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ACCESS SYSTEM
RISER DIAGRAM

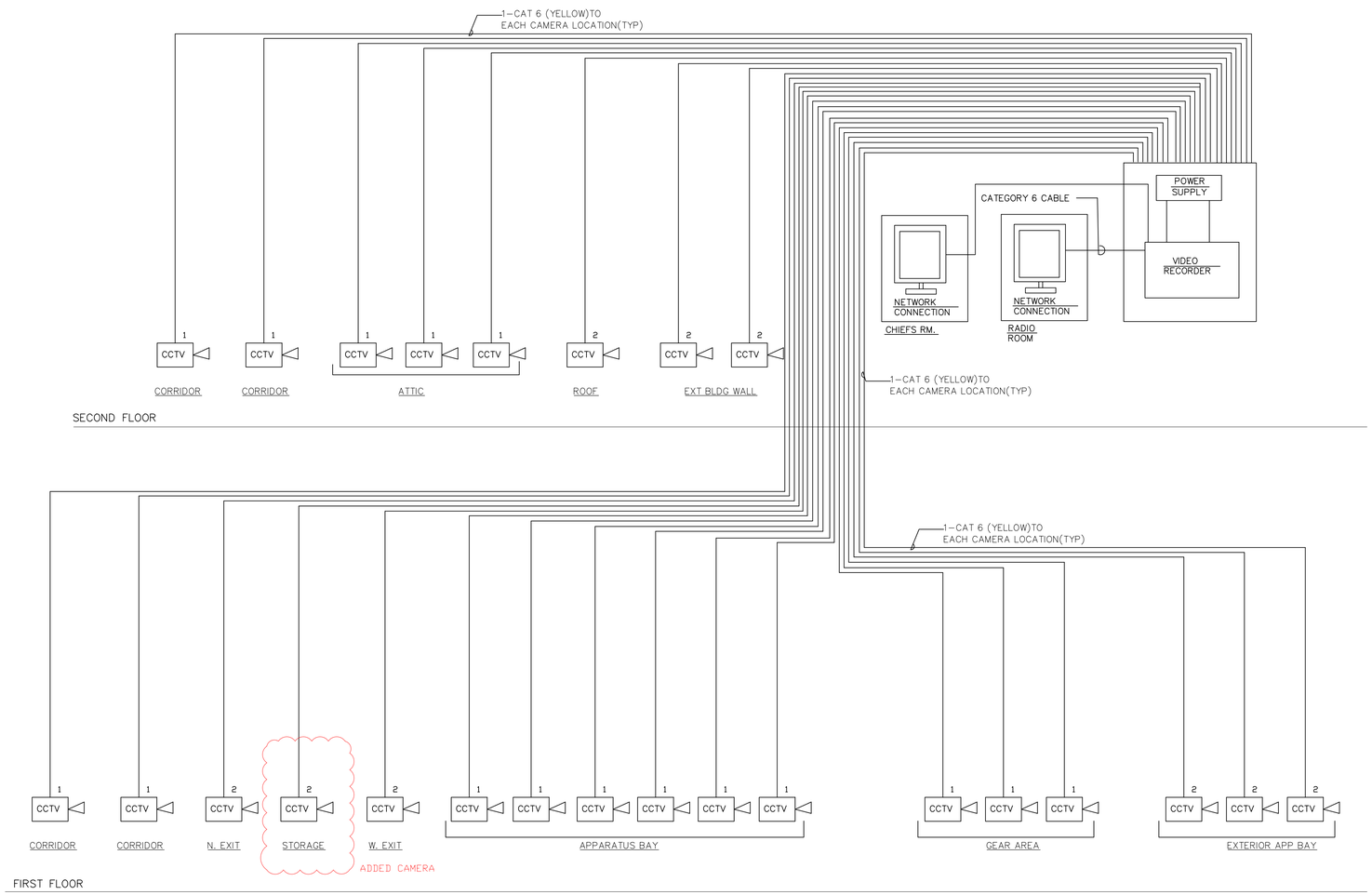
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E–11



NOTE:

1. ALL BOXES,WIRE,CONDUIT AS NEEDED BETWEEN FLOORS OR EXPOSED AREAS IS BY ELECTRICAL CONTRACTOR. ALL FINAL CONNECTIONS AT DEVICES ARE BY SURVEILLANCE VENDOR.
2. ALL LOCATIONS, REQUIREMENTS ARE TO BE COORDINATED W/VENDOR PRIOR TO
3. CATV SYSTEM SHALL BE COMPLETE INCLUDING ALL JACKS AND WALL PLATES WIRED AND LABELED WITH CONNECTIONS TO TERMINATION CABINET.

NOTE
ALL WIRING TO BE CERTIFIED BY ELECTRICAL CONTRACTOR

SURVEILLANCE RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE
7.18.22 FOR BID

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SURVEILLANCE
RISER DIAGRAM

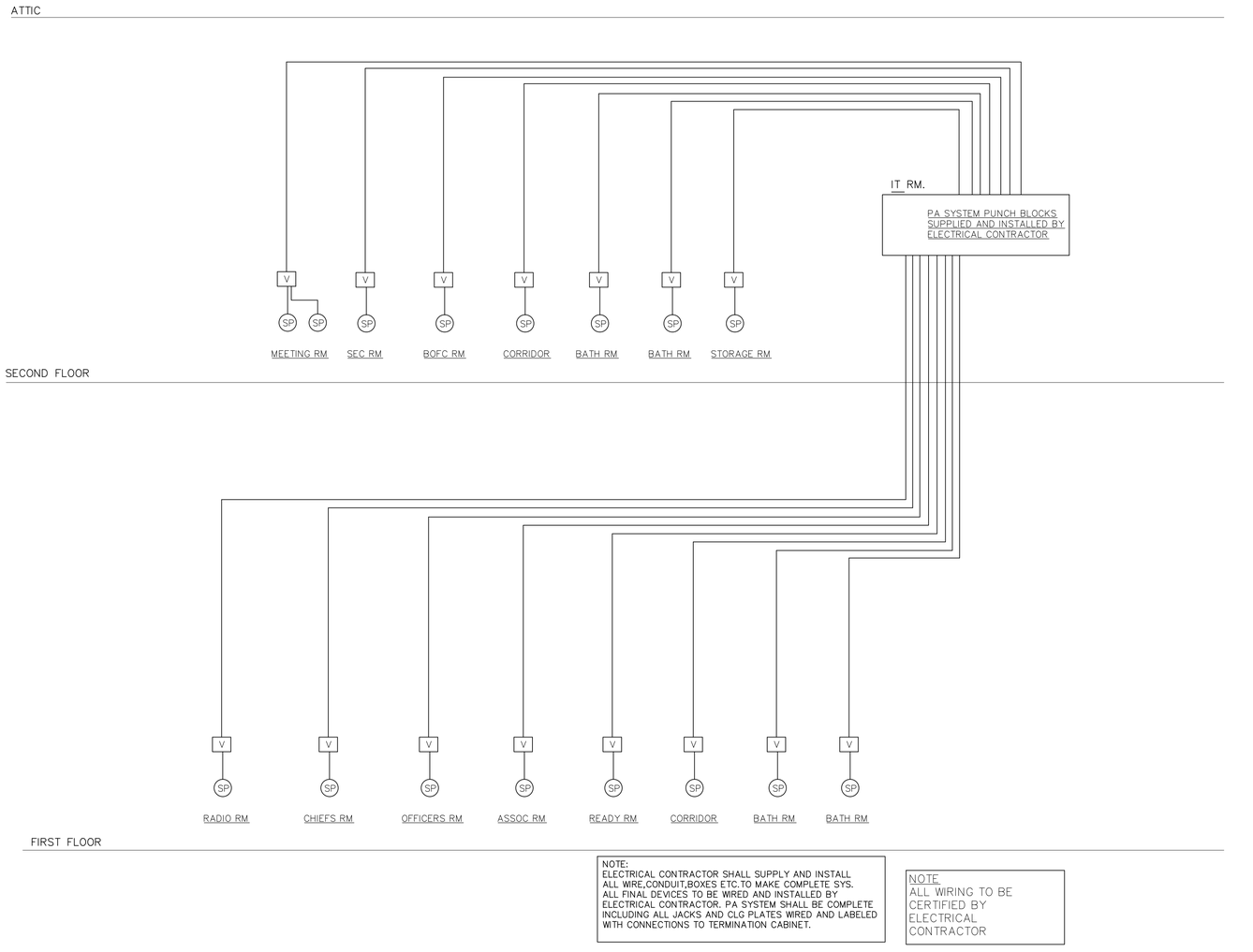
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E-12



NOTE:
ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRE,CONDUIT,BOXES ETC.TO MAKE COMPLETE SYS. ALL FINAL DEVICES TO BE WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. P.A SYSTEM SHALL BE COMPLETE INCLUDING ALL JACKS AND CLG PLATES WIRED AND LABELED WITH CONNECTIONS TO TERMINATION CABINET.

NOTE
ALL WIRING TO BE CERTIFIED BY ELECTRICAL CONTRACTOR

PA RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE
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PA RISER DIAGRAM

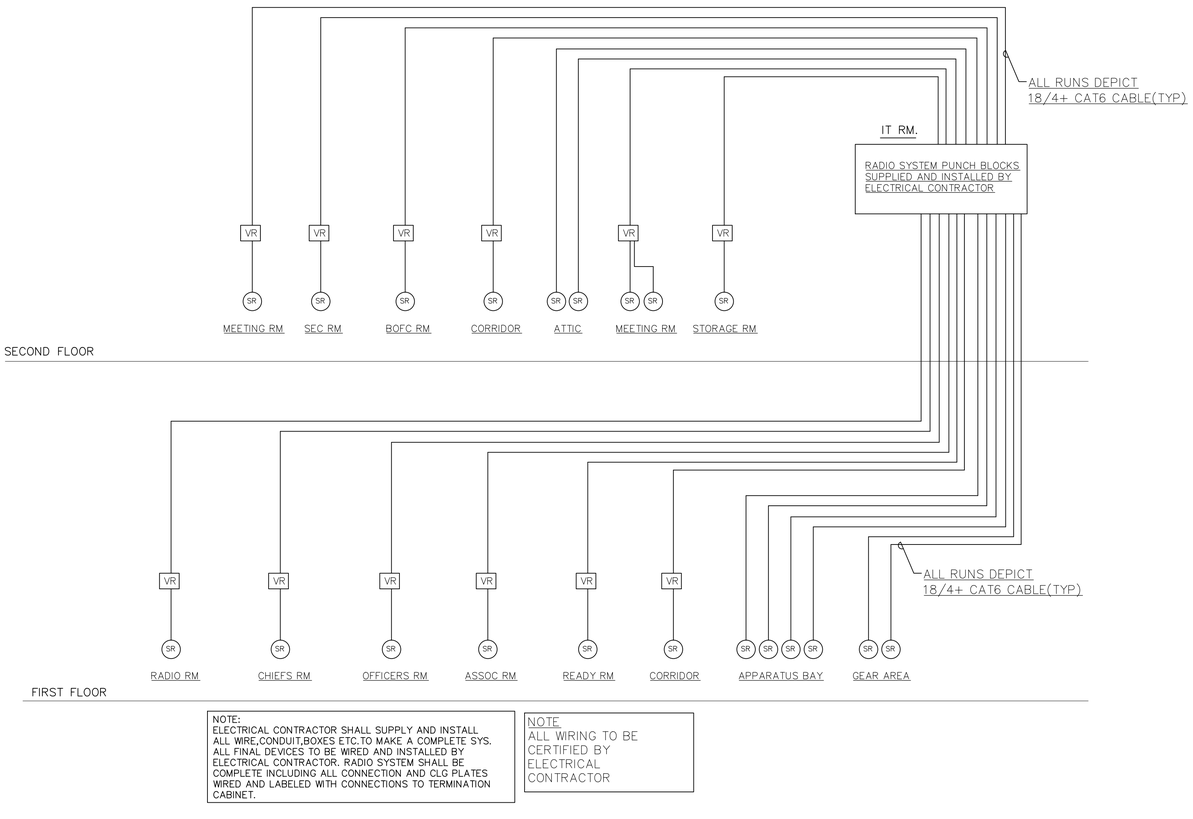
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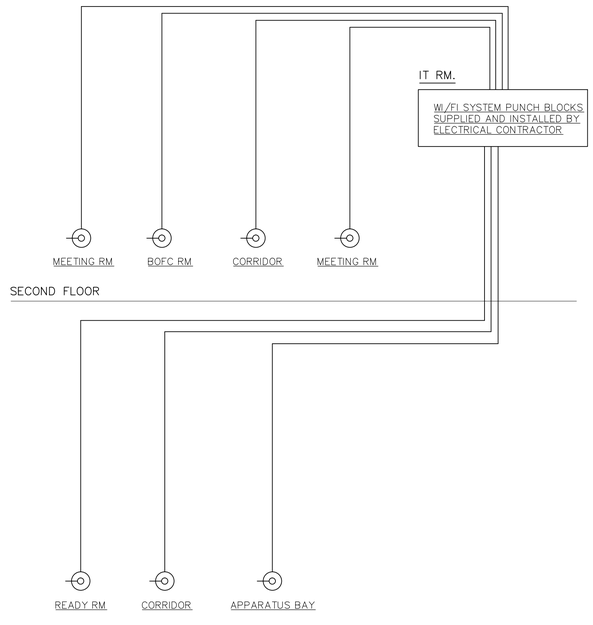
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E-13



NOTE:
ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRE,CONDUIT,BOXES ETC.TO MAKE A COMPLETE SYS. ALL FINAL DEVICES TO BE WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. RADIO SYSTEM SHALL BE COMPLETE INCLUDING ALL CONNECTION AND CLG PLATES WIRED AND LABELED WITH CONNECTIONS TO TERMINATION CABINET.

NOTE
ALL WIRING TO BE CERTIFIED BY ELECTRICAL CONTRACTOR



NOTE:
ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRE,CONDUIT,BOXES ETC.TO MAKE A COMPLETE SYS. ALL FINAL DEVICES TO BE WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. WIFI SYSTEM SHALL BE COMPLETE INCLUDING ALL CONNECTION AND CLG PLATES WIRED AND LABELED WITH CONNECTIONS TO TERMINATION CABINET.

NOTE
ALL WIRING TO BE CERTIFIED BY ELECTRICAL CONTRACTOR

RADIO, WIFI SYSTEMS RISER DIAGRAMS

SCALE: N.T.S.

DATE: ISSUE
7.18.22 FOR BID

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RADIO, WIFI
SYSTEMS RISER DIAGRAMS

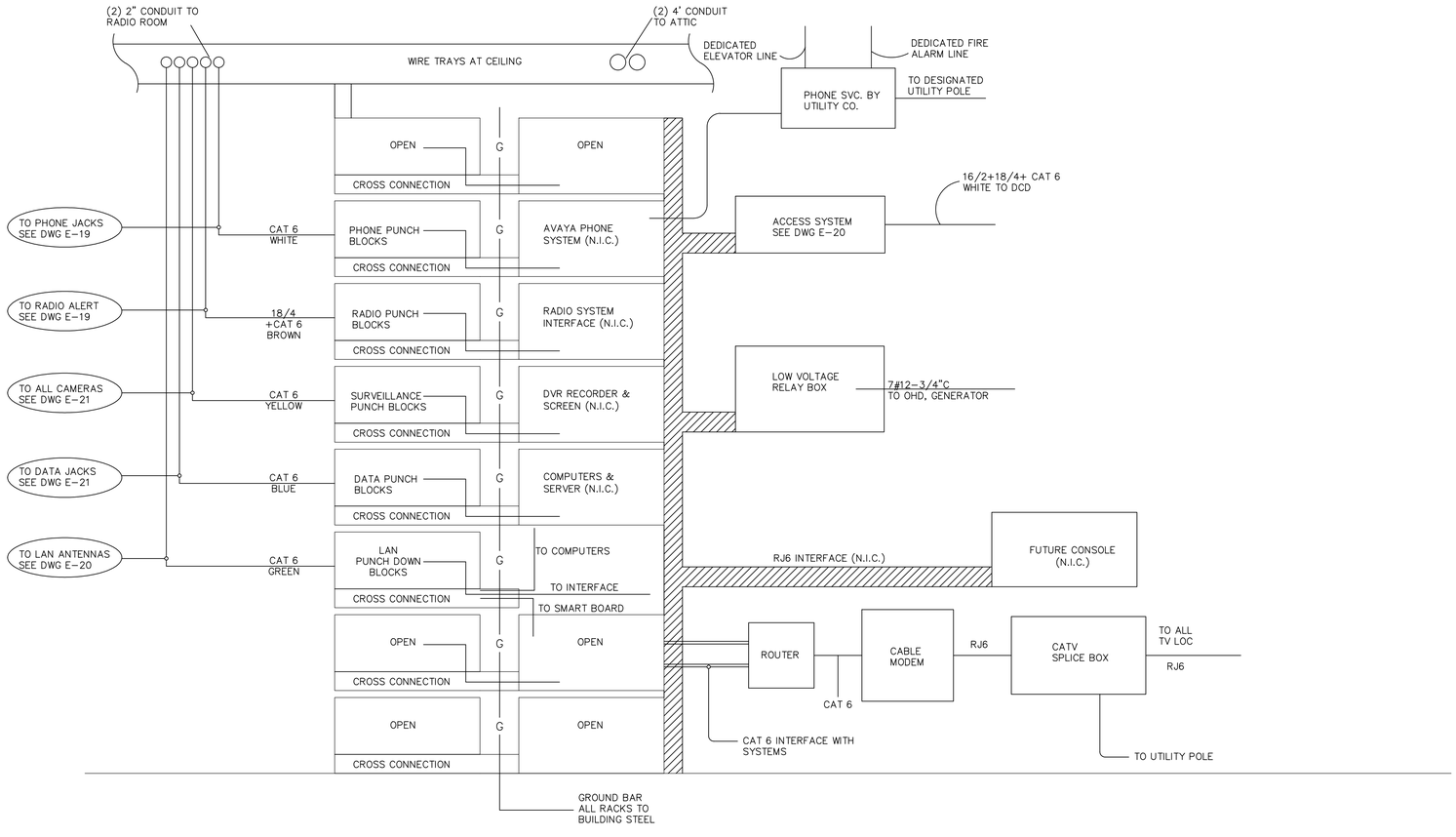
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CAD FILE: 21-08/P:/BID

DRAWING#:

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I.T. ROOM RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE
7.18.22 FOR BID

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I.T. ROOM RISER DIAGRAM

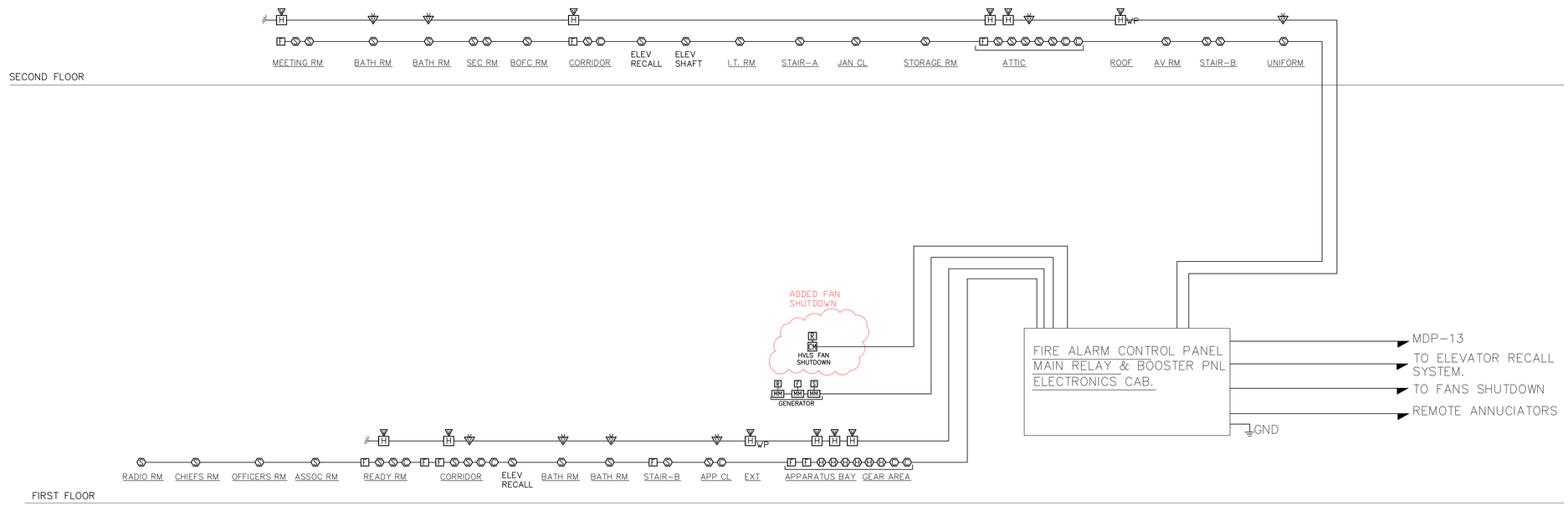
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E-15



NOTE:
ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL COMPLETE FIRE & SMOKE ALARM SYSTEM TO CODE USING DRAWINGS AS A MINIMUM SCOPE.

FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.

DATE: ISSUE
7.18.22 FOR BID

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FIRE ALARM RISER DIAGRAM

PROJECT #: 21-08

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