senior room addition

SWEDEN/CLARKSON COMMUNITY CENTER

4927 Lake Road South
Sweden, New York

This project is funded in part by a grant from the
NYS COMMUNITY DEVELOPMENT BLOCK GRANT
through the
CORONAVIRUS AID RELIEF & ECONOMIC SECURITY ACT (CARES ACT)
Grant Project #2727CVPF1-21

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CODE REQUIREMENTS

1. BUILDING CODES: 2020 Existing Building Code (EBCNYS), Building Code (BCNYS), Plumbing Code (PCNYS), Mechanical Code (MCNYS), Fuel Gas Code (FGCNYS), & Energy Conservation Code (ECCNYS) of New York State.
   A) Conformance;
      1) Addition; Comply w/BCNYS per EBCNYS 1101.1
      2) Construction Type; 2b - Non-combustible BCNYS 601
      3) Current Occupancy; A3 - Community Center BCNYS 303.4
      4) Occupancy When Built; C5.5 Education/Assembly NYCRR 703.6
      5) Max Fire Area Current; 9,500 X 1.75=16,625 SF BCNYS 506.2
      6) Max Fire Area When Built; 12,000 SF NYCRR Table VII 705
      7) Areas/Occupant Load; New 3,959 SF Fire Area w/2 hour Separation BCNYS 706.4(a)

a) Existing:	30,788 SF		
b) Addition:	3,959 SF	Senior Rm 1,961 SF/15 =	131 People
		Storage 200 SF/300=	1 Person
		Mech Rm 233 SF/300=	1 Person
c) Total:	34,747 SF	BCNYS 1004.5	133 People

      8) Fire Alarm; Provided BCNYS 907.2.1
      9) Fire Sprinkler; None, Pre-Existing BCNYS 903.2.1.3
      10) Number of Exits; 2 Exits min BCNYS 1006 & 1006.2.1
      11) Exit Fire Rating; Not Required in Aisle BCNYS 1018
      12) Exit Remoteness; >54'/2=27' BCNYS 1007.1.1
      13) Exit Door Width; 2-36"/.2=360 People BCNYS 1005.3.2
      14) Exit Access; 200' Max Travel BCNYS 1017.2
      15) Exit Illumination; 1 FC w/90 min backup BCNYS 1008.2
      16) Exit Signs; >50 People Req'd BCNYS 1013.1
      17) Plumbing Fixtures; 130/2=65 each sex PCNYS 403.3

SINK	1 Req'd	= 1
WC	1/125 female + 1/65 male	= 2
LAV	1/200 female + 1/200 male	= 2
Total Fixtures PCNYS 403.1		5

      18) Ventilation; Conf/Meeting 50 people/1000 SF
      R_p=5 CFM/Person & R_a=0.06 CFM/SF
      $V_b=R_pP_z+R_aA_z=5(97)+0.06(1,936)=$
      600 CFM Outside Air NYSMC 403.3.1
      Toilet Exhaust 75 CFM/WCX2=150 CFM
      NYSMC 403.3.1.1
      19) Envelope Insulation; Roof R=30/Mass Wall R=10/Slab R=10
      Windows U=.38 w/PF=.5 in Zone 5
      ECCNYS C402.1.3
2. Compliance; These drawings have been prepared in accordance w/2020 NYS codes. To the best of the Architect's knowledge, belief & professional judgment these plans & construction requirements are in compliance w/2020 NYS codes.
3. Special Inspection; The Owner will provide third party special inspections as required per BCNYS 1705 for the following items;
   1) Footing Reinforcing & Concrete,
   2) Steel Framing, Bar Joist & Decking, and
   3) Masonry Reinforcing & Grouting.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM (STOREFRONT) DOOR
AWN	AWNING WINDOW
ARC	ARC FAULT INTERUPTER
BB	BASE BOARD HEATER
BC	BASE CABINET
BCS	BABY CHANGING STATION
BD	BOARD
BRG	BEARING
C	COLD WATER
CBC	CORNER BASE CABINET
CF	CEILING FAN
CFM	CUBIC FEET/MINUTE
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CS	CORPORATION STOP
CST	CASEMENT WINDOW
CWT	CORNER WALL CABINET
DCO	DECK-PLATE CLEAN OUT
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG WINDOW
DS	DOWN SPOUT
EA	EACH
EF	EXHAUST FAN
ERV	ENERGY RECOVERY VENTILATOR
EPDM	ETHYLENE PROPYLENE DIENE MONOMERS
EW	EACH WAY
EX	EXHAUST
FAP	FIRE ALARM PANEL
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FRP	FIBER REINFORCED PLASTIC
G	GAS (NATURAL GAS)
GB	GRAB BAR
GD	GRAVITY DAMPER
GF	GAS FURNACE
GFI	GROUND FAULT INTERRUPTER
GYP	GYPSUM
HB	HOSE BIB
HD	HAND DRYER
HM	HOLLOW METAL DOOR
H	HOT WATER
KSK	KITCHEN SINK
LAV	LAVATORY (WALL HUNG)
LVT	LUXURY VINYL TILE
NL	NIGHT LIGHT
MH	MANHOLE
MR	MIRROR
MS	MOP SINK
MV	MIXING VALVE (SHOWER)
NL	NIGHT LIGHT
OC	ON CENTER
OH	OVERHEAD
OS	OIL SEPARATOR
PEX	CROSS-LINKED POLYETHYLENE
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENCER
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RD	ROOF DRAIN
RS	ROLLER SHADES
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAN	SANITARY SEWER
SBC	SINK BASE CABINET
SD	SHOWER DRAIN
SDR	SOAP DISPENCER
SG	SPANDREL GLASS
SHR	SHOWER
SR	SHOWER ROD
STL	STEEL
STM	STORM SEWER
TP	TOILET PARTITION
TPH	TOILET PAPER HOLDER
UH	UNIT HEATER
US	UTILITY SINK
UR	URINAL
V	VENT
VCT	VINYL COMPOSITE TILE
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCT	WALL CABINET
WD	WOOD DOOR
WH	WATER HEATER
WP	WEATHER PROOF
WCO	WALL-PLATE CLEAN OUT

PROJECT: Senior Room Addition
Sweden/Clarkson
Community Center

SKETCH: Cover & Code Req'ts

DATE: 11/15/21 SHEET: 01

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GENERAL REQUIREMENTS (APPLIES TO ALL CONTRACTS)

1. MULTIPLE CONTRACTS SUMMARY: The work of this project is to be performed by multiple prime Contractors. Each Contractor shall coordinate w/others as required to complete the work. The work shall be;
   A) General Construction Work; Provide all site work & excavation, all required existing building & site demolition & modifications, temporary site & building shell protection & heat as required for winter conditions construction, complete new building addition & finishes, & new sanitary lateral from building to & including new manhole, as identified on sheets 03 – 12.
      1) Schedule; Prepare master project schedule providing for adequate time of others to also complete their work.
   B) Plumbing Work; All plumbing work including below slab piping w/associated excavation, above slab piping, plumbing fixtures, gas piping & connections to RTU & WH, as identified on sheet 13.
   C) Mechanical Work; All mechanical work including controls & control wiring & programing, as identified on sheet 14.
   D) Electrical Work; All electrical work, including temporary power & lighting as required, power supply from main switch including disconnect, feeders & sub-panel, all power, lighting & fire alarm for addition & power connections to DF, WH, RTU & ERV as identified on sheet 14.
2. WORKMANSHIP AND MATERIALS:
   A) Responsibility; These drawings indicate finished structure. Each Contractor shall be responsible for construction means, methods, techniques, sequences, & procedures.
   B) Installation; Each Contractor shall supply materials & equipment of good quality & new, free of defects & properly applied, installed, erected, connected, used, cleaned & conditioned in accordance w/manufacturer's specification, industry/trade standards & regulatory agency approvals in a good workmanship manner. Where reference is made to various test standards for materials, such standards shall be the latest edition or addendum.
   C) Products; To the fullest extent possible, each Contractor shall provide products of the same generic kind, from a single source, for each unit of work. In accordance with Section 103 of General Municipal Law, these drawings & specifications are non-proprietary & all requirements are the minimum standard of quality allowed. It is each Contractor's responsibility to select proprietary products which comply w/drawings & specifications & which are compatible w/one another. Items listed in [brackets] are suggested proprietary product to indicate minimum basis of design. All material kinds, types, brands & manufacturers are to be approved by the Architect prior to installation (see Submittals).
   D) Architect's Authority; Each Contractor shall abide by all orders, directions & requirements of the Architect, & shall perform all work to the satisfaction of the Architect. The Architect shall determine the amount, quality, acceptability & fitness of all parts of the Work, shall interpret the Plans, Specifications, Contract Documents & any Change Orders, & shall decide all other questions in connection w/the Work. Upon request the Architect shall confirm in writing an oral order, direction, requirement or determination.
   E) Minimum Requirement; Each Contractor shall provide each item mentioned, indicated or implied to achieve the intended Work according to the methods of best construction practice.
   F) Correction Of Work; All Work, all materials incorporated in the Work or not, all processes of manufacture, & all methods of construction shall be at all times and places subject to the inspection by the Architect who shall be the final judge of the quality and suitability of the Work. Should they fail to meet his approval, they shall be forthwith reconstructed, made good, replaced and/or corrected by the Contractor at his/her own expense.
   G) GURANTEE: Each Contractor shall guarantee that the Work is in accordance w/Contract Documents, that materials & equipment furnished will be new & of good quality unless permitted otherwise and that the Work will be free of defects for a period of one year from the date of substantial completion. During the guarantee period, the Contractor shall within three days' notice of defect, take necessary action to correct such defect at the Contractor's expense. The Contractor will be bound to this guarantee by a signed Guarantee Certificate.
3. PROJECT CONDITIONS:
   A) Job Site; Each Contractor shall keep the premises & surrounding area free from accumulation of waste materials & rubbish, & disposed of in accordance w/local law. At completion of project each Contractor shall remove all waste & surplus materials, non-permanent protection & labels, tools, construction equipment & clean all work including glass, exposed finishes & fixtures.
   B) Demolition; Remove all items indicated in a systematic manner & dispose of in accordance w/local law. Cover & protect existing fixtures & provide temporary weatherproof closure during intervals vulnerable to water damage. No burning or burning debris is allowed.
   C) Coordination; Each Contractor shall be responsible for their respective work among his employees & subcontractors, & for the coordination & cooperation between his employees, & all other Contractors, their employees, subcontractors & the Owner.
   D) Temporary Facilities; Each Contractor shall provide all temporary facilities, including equipment, utilities, construction & support structure, security & protection as required for their respective work. Provide all bracing, shoring, guying, or other means to avoid excessive stresses & to hold structural elements in place during construction. Maintain, expand & modify as needed. Comply w/applicable laws & regulations.
   E) Cutting & Patching; Each Contractor shall be responsible for cutting, fitting or patching required to complete their respective work or to make its parts fit together properly. Do not cut structural members such as trusses or beams. Patching shall be done in a manner that disturbed surfaces are restored to their original condition or better.
   F) Special Inspections; The Owner will provide special inspection services. Each Contractor shall cooperate & coordinate work, & schedule inspections accordingly.
4. PROTECTION OF PERSONS AND PROPERTY:
   A) Precautions; Each Contractor shall comply w/OSHA Section 107 Safety Standards & take reasonable precautions for safety & protection to prevent damage, injury or loss to:
      1) employees on the work & other persons who may be affected thereby,
      2) the work & materials to be incorporated therein,
      3) other property at the site or adjacent thereto.
   B) Remedy; Each Contractor shall promptly remedy damage & loss to property at the site, caused in whole or in part by the Contractor of anyone directly or indirectly employed by the Contractor.
5. DRAWINGS:
   A) Copyright; These drawings are an instrument of service & may not be altered, reproduced, copied, or used for construction without the written permission of the Architect. Unauthorized alterations or additions to these drawings are a violation of New York State education law article 145, section 7209.
   B) Dimensions; These drawings are not to be scaled for dimensions, each Contractor is to use dimensions given. Dimensions shown are nominal, unless noted otherwise.
   C) Discrepancies; In the event of discrepancies between these drawings & pertinent codes, regulations & reference standard, the more stringent provision shall govern.
   D) Responsibility; Each Contractor is responsible for all items of work necessary for the proper completion of their respective work in conformance w/intent of these drawings, including those items which are not specifically covered in these drawings or construction requirements.
   E) Verification; Each Contractor shall verify all notes & dimensions & existing field conditions before starting work & shall be responsible for errors & or omissions thereafter.
   F) Record Drawings; Each Contractor shall maintain a complete set of prints, shop drawings & product data for record purposes. Give particular attention to work which will be concealed & difficult to measure & record at a later date, & work which may require servicing or replacement during the life of the building. Sign & date each mark-up. Turn record set over to owner at completion.
   G) Intent; These drawings & specifications are cooperative. The Contractor is responsible for all items of his work necessary for the proper completion of the project in conformance w/intent of these drawings, including those items which are not specifically covered in these drawings or specifications. Anything shown on the drawings & not mentioned in the specifications, or mentioned in the specifications & not shown on the drawings, shall have the same effect as if shown respectively, in both.
   H) Submittals; Each Contractor shall promptly review, approve in writing & submit to the Architect .pdf copies of all shop drawings, product data, samples & similar submittals required by the Contract Documents. Submittals are required to establish conformance of portions of the work w/Contract Document & are either approved by the Architect or not approved. Marked-up copies will be returned to the Contractor. Do not fabricated, order or install any product, material or equipment that require approved submittals. Regardless, the responsibility for correct dimensions, installation and performance remains with the Contractor. The Architect will provide a list of required submittals.
   I) Record Drawings; Each Contractor shall maintain a complete set of prints, shop drawings & product data for record purposes. Give particular attention to work that will be concealed & difficult to measure & record at a later date, & work which may require servicing or replacement during the life of the building. Sign & date each mark-up. Include with record set all maintenance and operations manuals, spare parts, data, equipment & product warranties. Turn record set over to Owner at completion.

PROJECT: Senior Room Addition
Sweden/Clarkson
Community Center

SKETCH: General Requirements

DATE: 11/15/21 SHEET: 02

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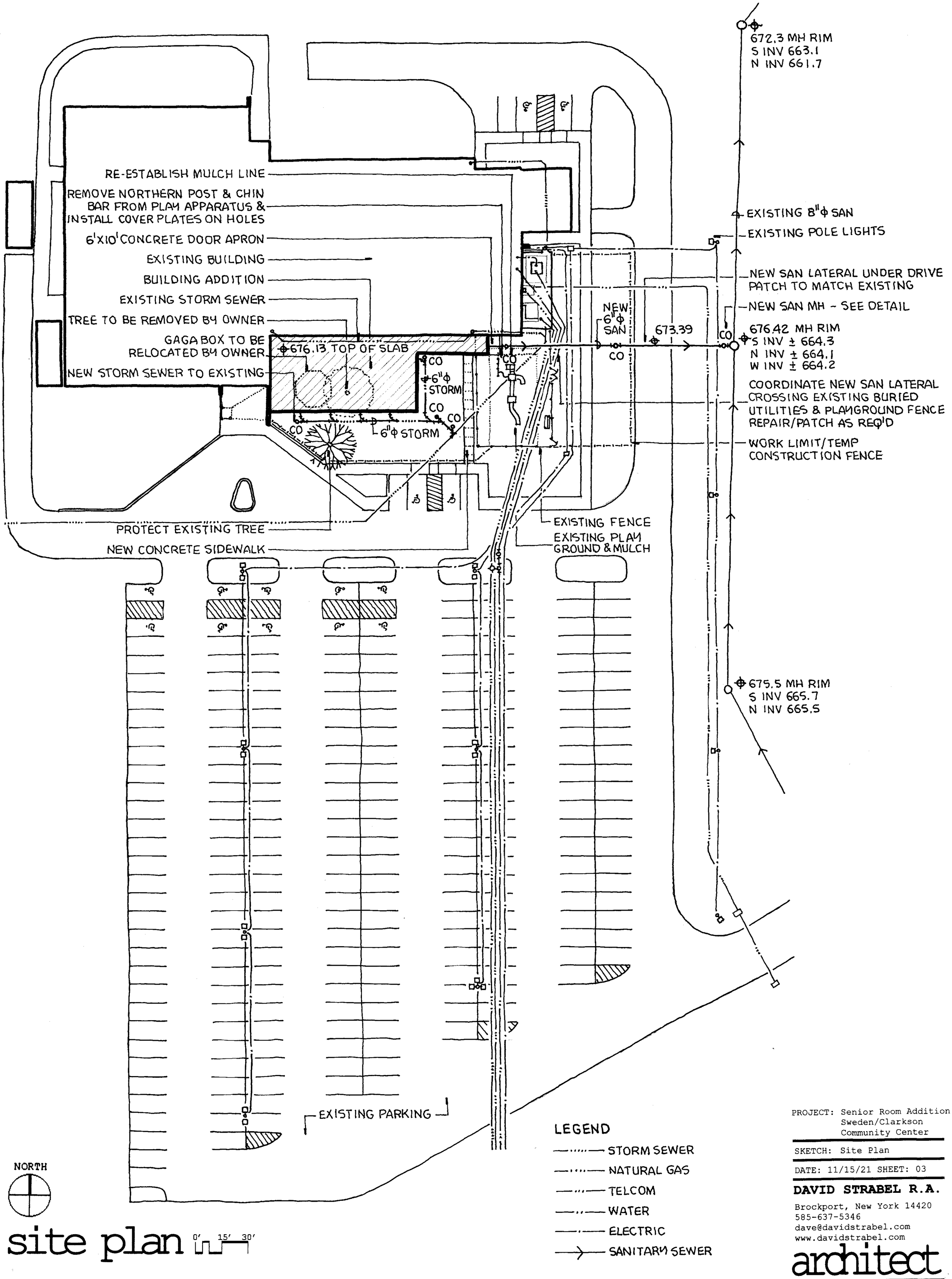

site plan

LEGEND

- STORM SEWER
- NATURAL GAS
- TELCOM
- WATER
- ELECTRIC
- SANITARY SEWER

PROJECT: Senior Room Addition
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SKETCH: Site Plan

DATE: 11/15/21 SHEET: 03

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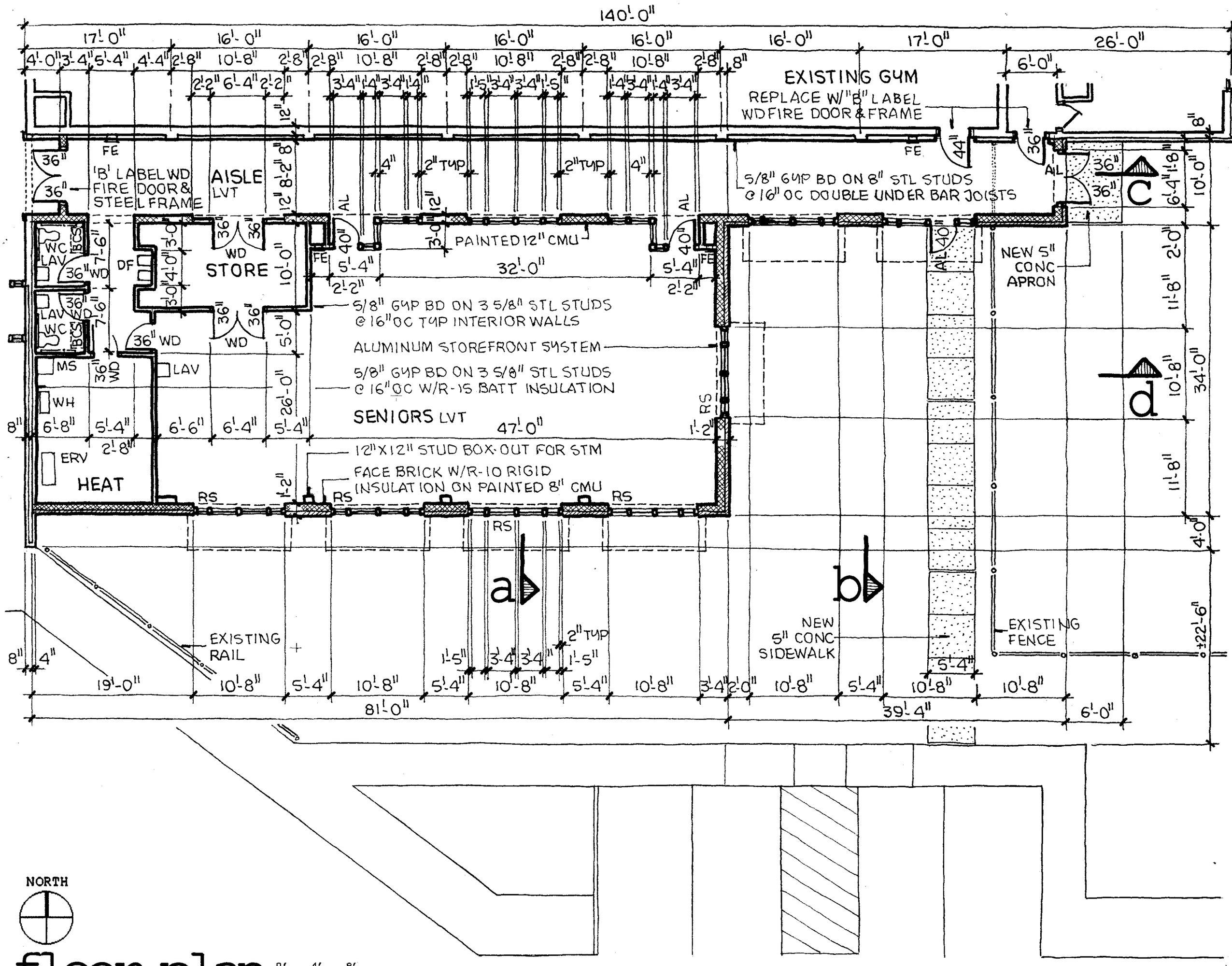
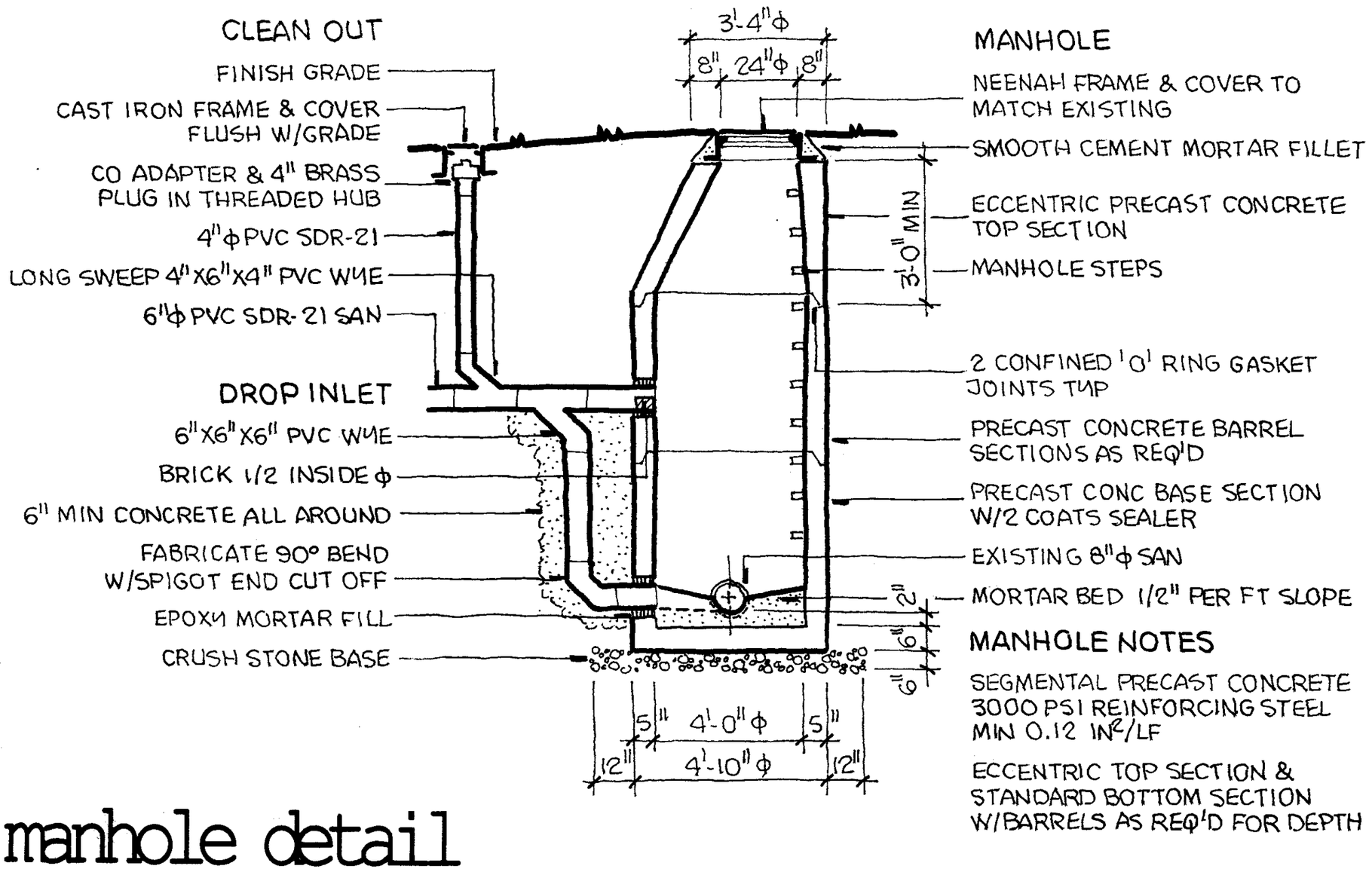


NORTH

floor plan

0' 4' 8'



MANHOLE NOTES

SEGMENTAL PRECAST CONCRETE 3000 PSI REINFORCING STEEL MIN 0.12 IN^2/LF

ECCENTRIC TOP SECTION & STANDARD BOTTOM SECTION W/BARRELS AS REQ'D FOR DEPTH

manhole detail

NOTES

INTERIOR NON-BEARING STUD WALLS 5/8" GYP BD BOTH SIDES OF 3 5/8" @ 16" OC STEEL STUDS

PROVIDE BLOCKING AS REQ'D FOR ALL WALL HUNG ACCESSORIES

ALL INTERIOR CMU & GYP BD TO BE PAINTED

PROJECT: Senior Room Addition
Sweden/Clarkson
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SKETCH: Floor Plan

DATE: 11/15/21 SHEET: 04

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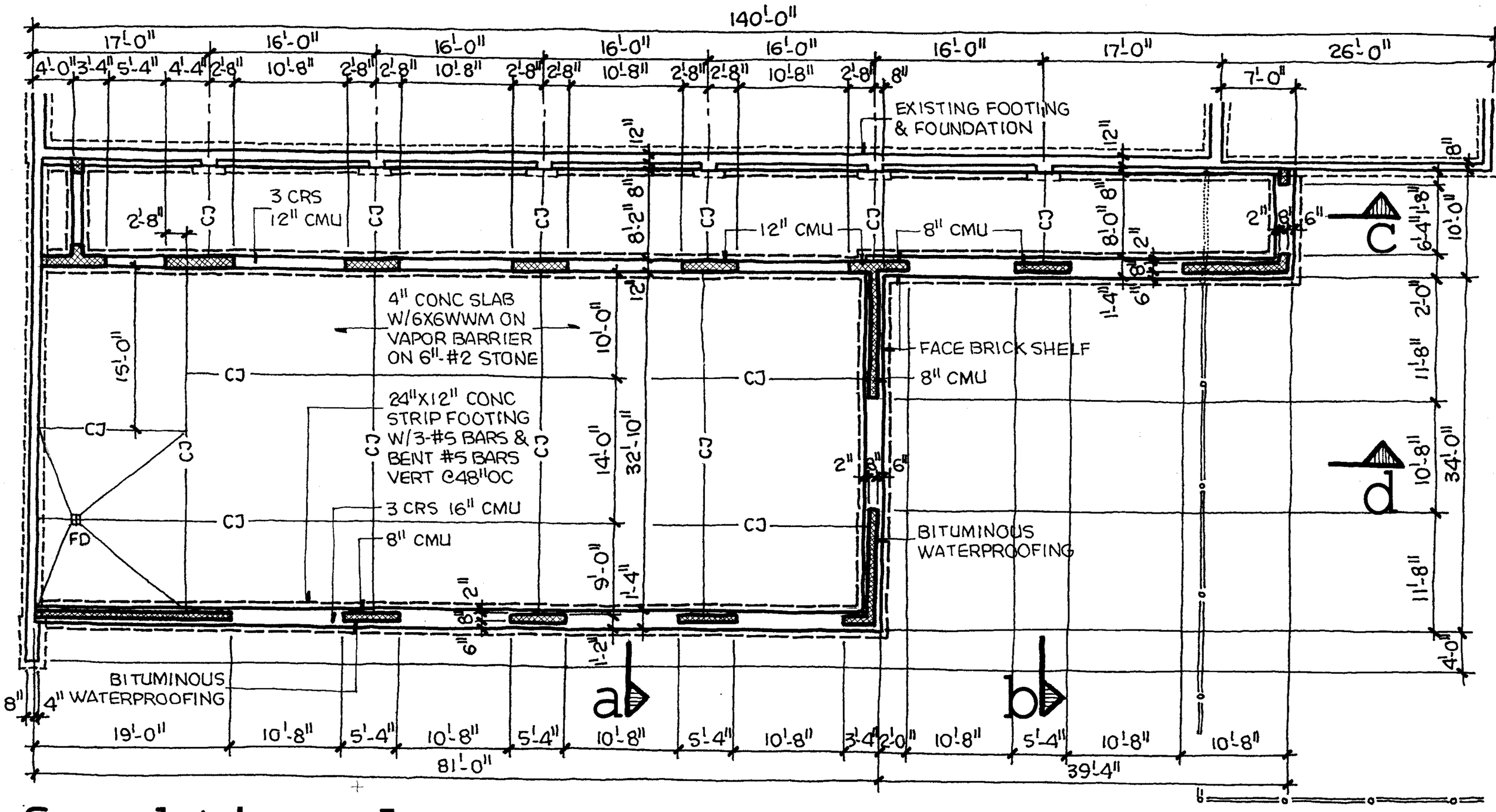
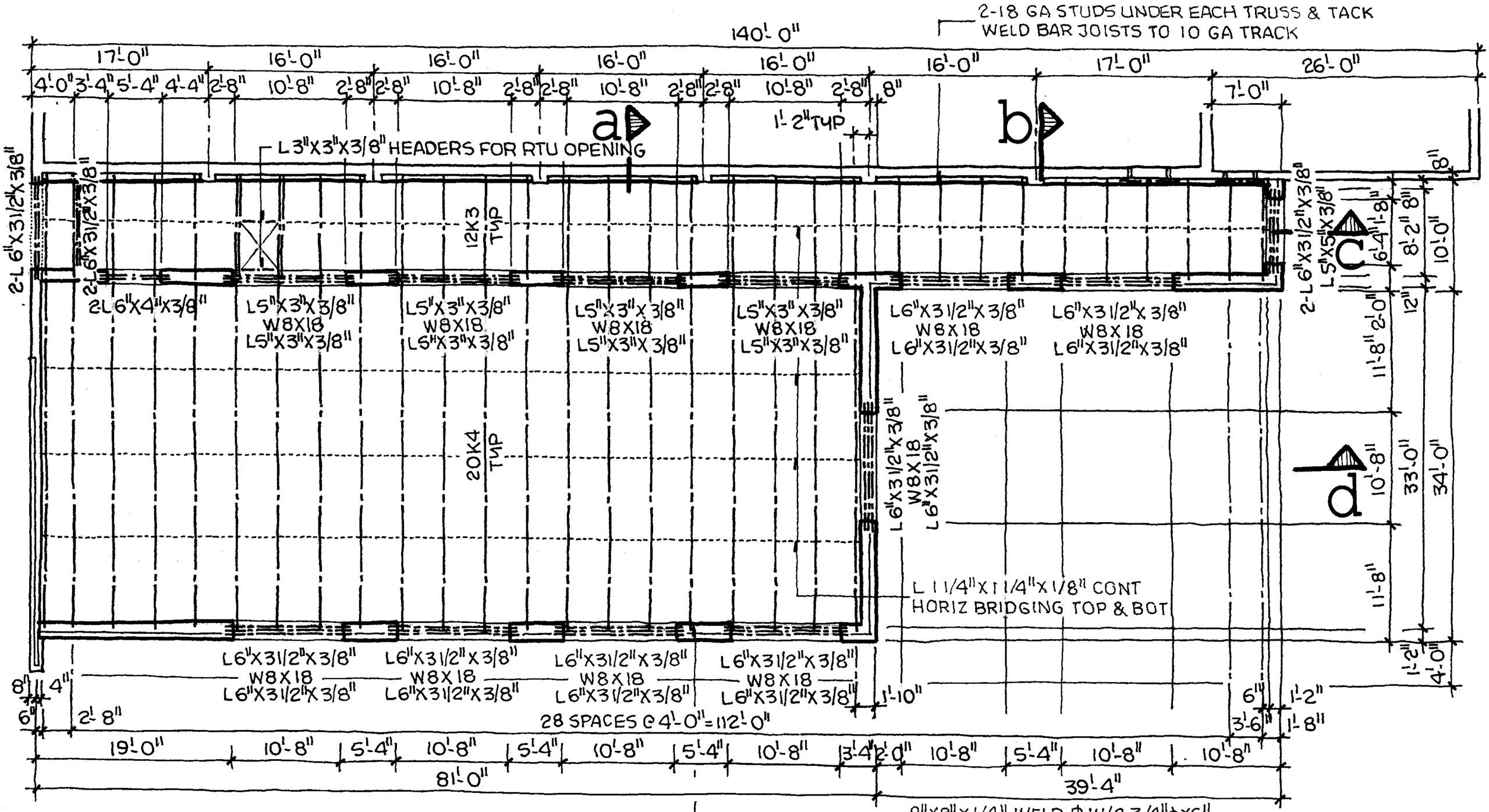


foundation plan

0' 4' 8'



framing plan

0' 4' 8'

1 1/2"X22 GA CORRUGATED STEEL DECK ON K-SERIES BAR JOISTS

PROJECT: Senior Room Addition
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SKETCH: Foundation & Framing

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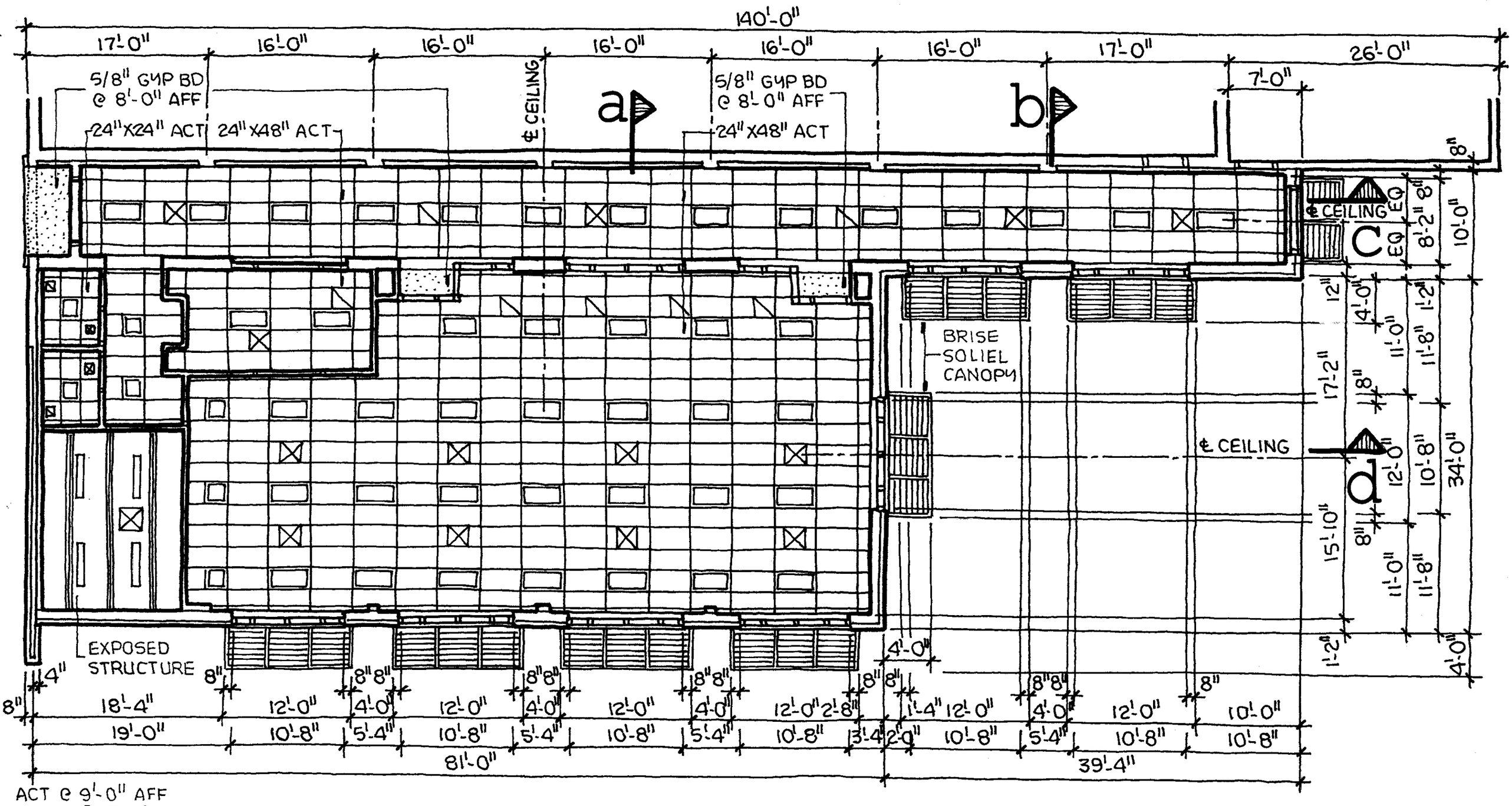
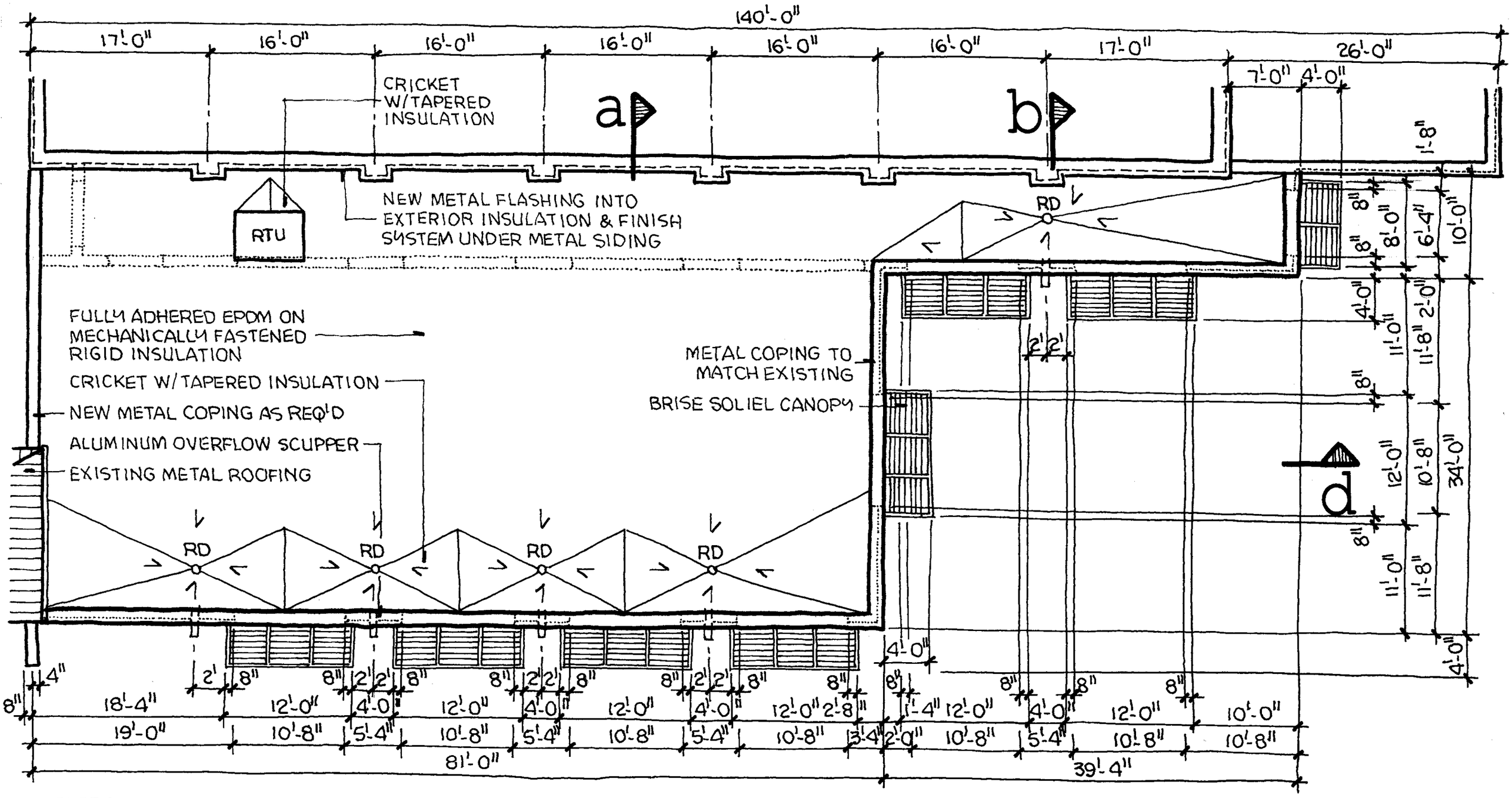


ACT @ 9'-0" AFF

ceiling plan

0' 4' 8'

SOFFITS OVER ALCOVES 5/8" GYP BD ON 3 5/8" @ 16" OC STEEL STUDS



← SLOPE

roof plan

0' 4' 8'

PROJECT: Senior Room Addition
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SKETCH: Ceiling & Roof Plans

DATE: 11/15/21 SHEET: 06

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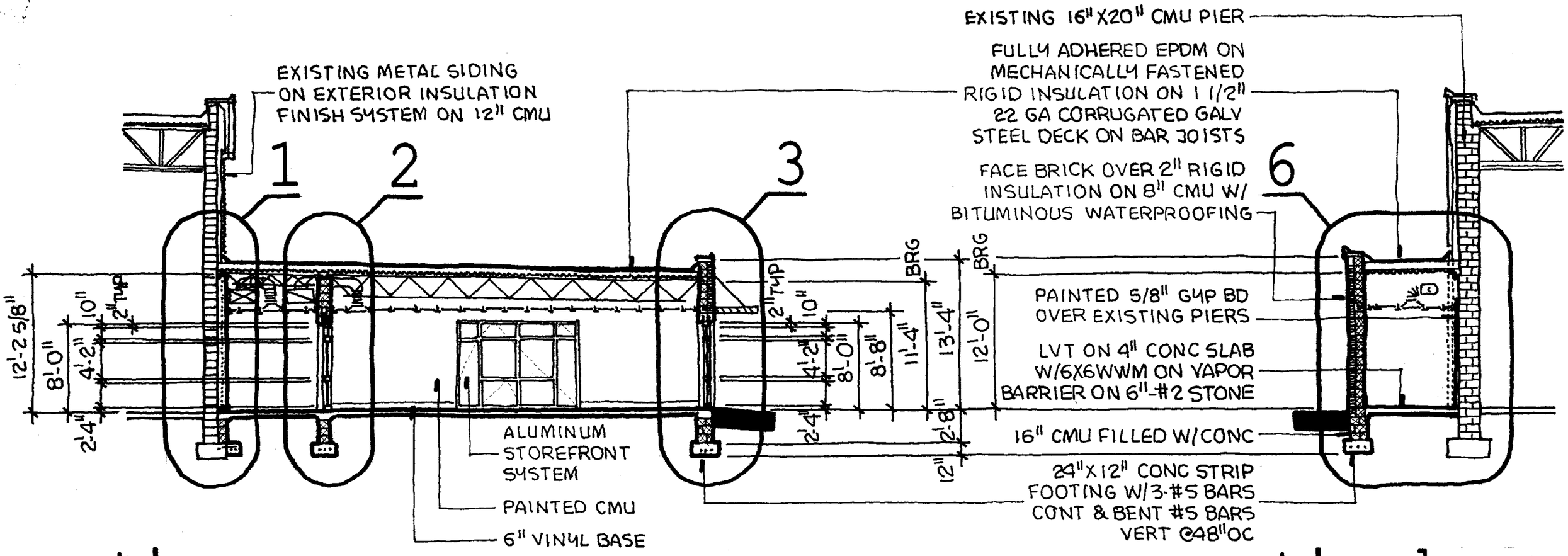
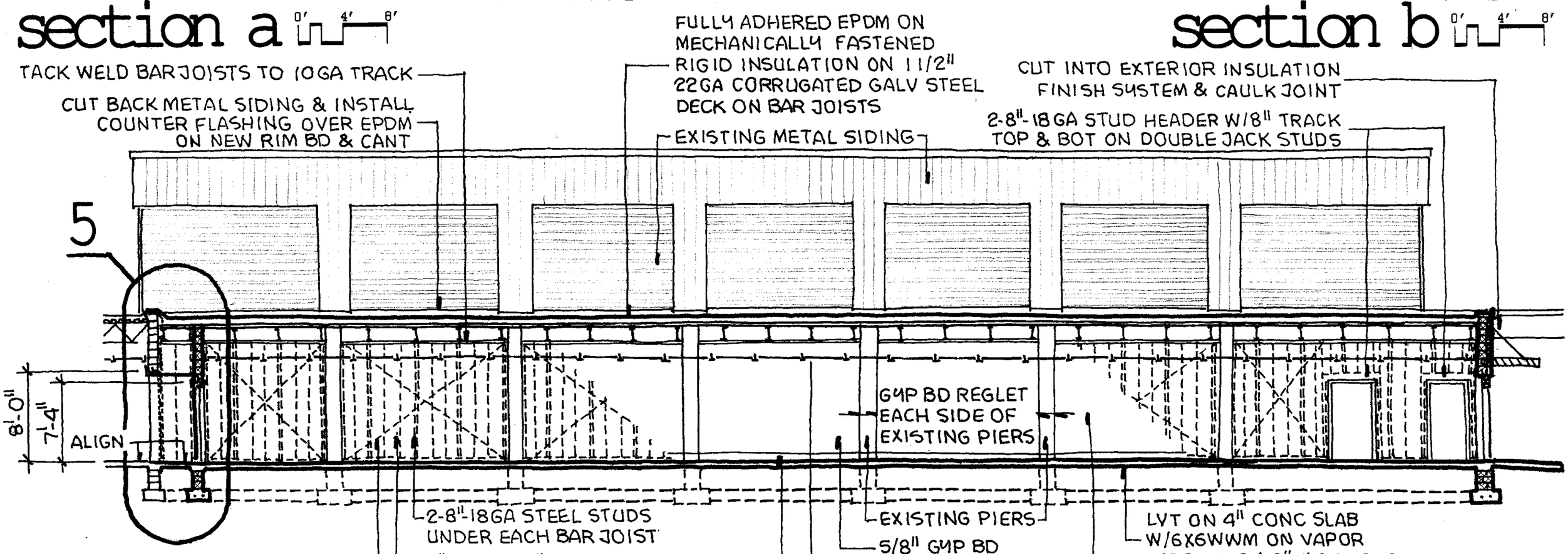
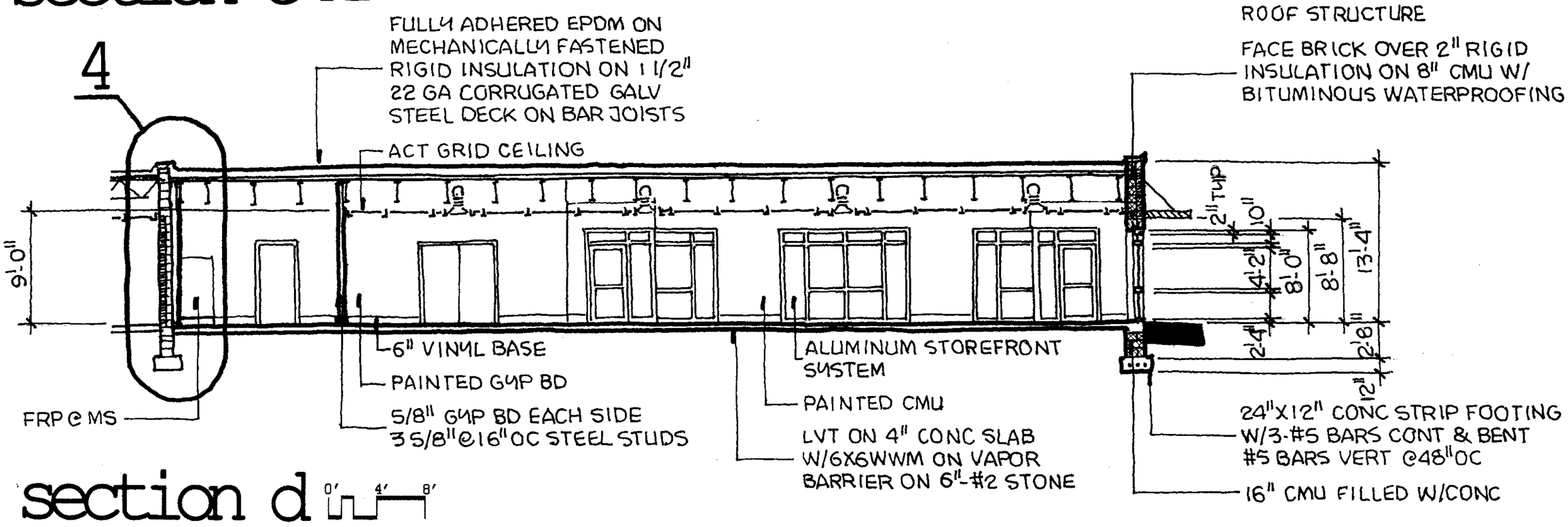


section a



section b

section c



section d

PROJECT: Senior Room Addition
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SKETCH: Sections A - D

DATE: 11/15/21 SHEET: 07

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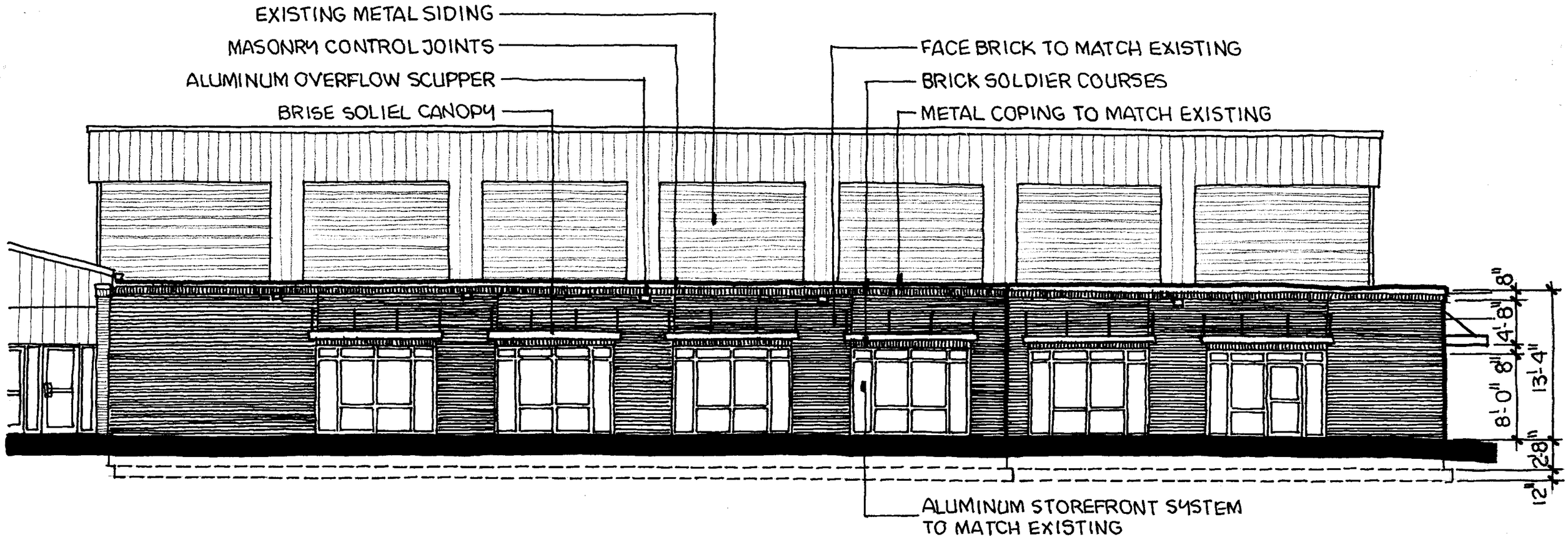
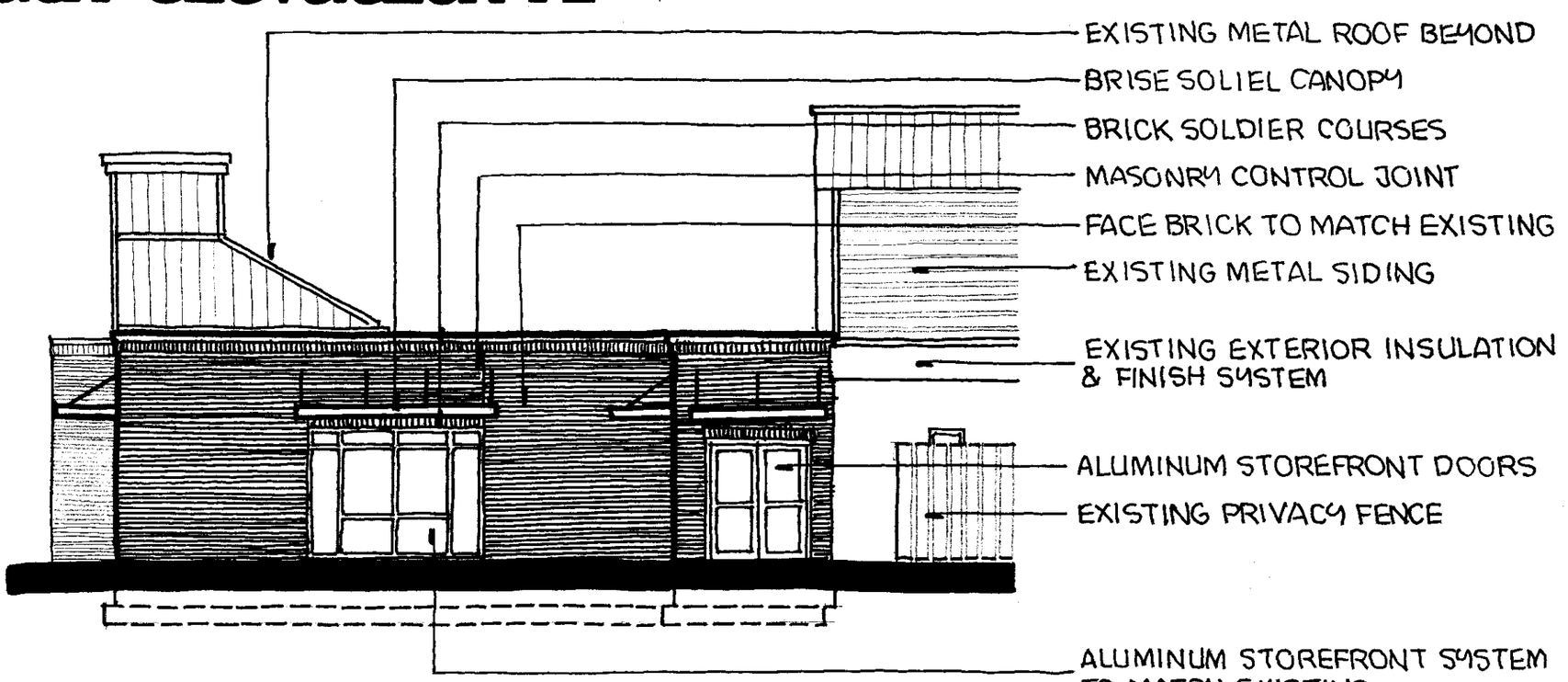
south elevation

0' 4' 8'



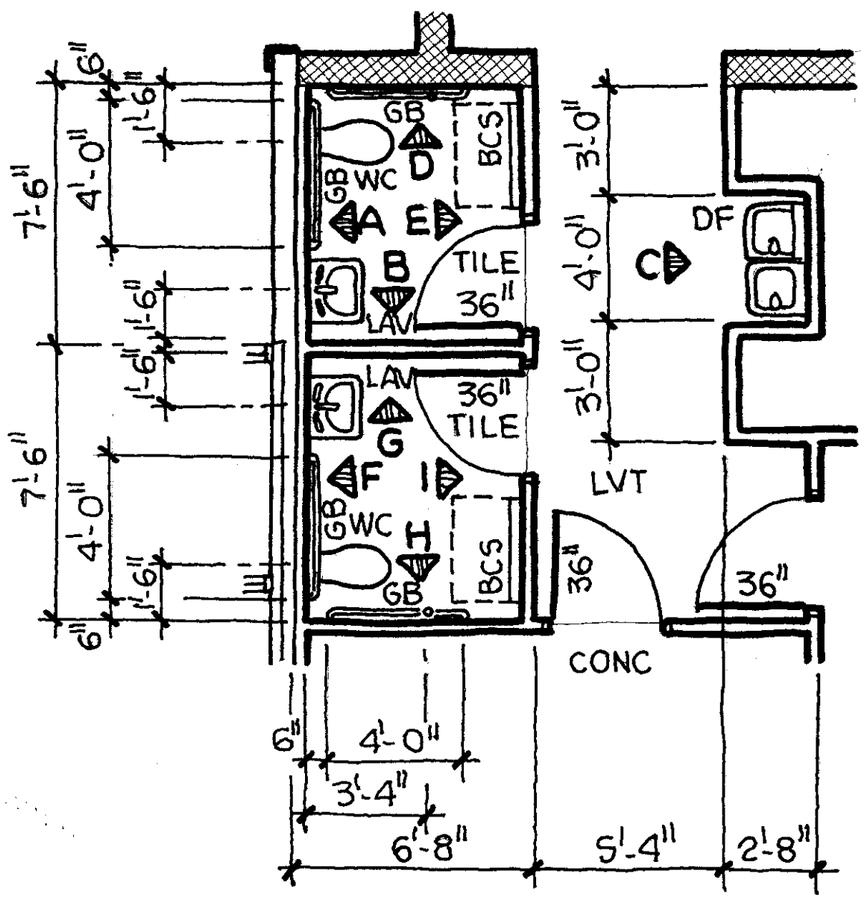
south elevation

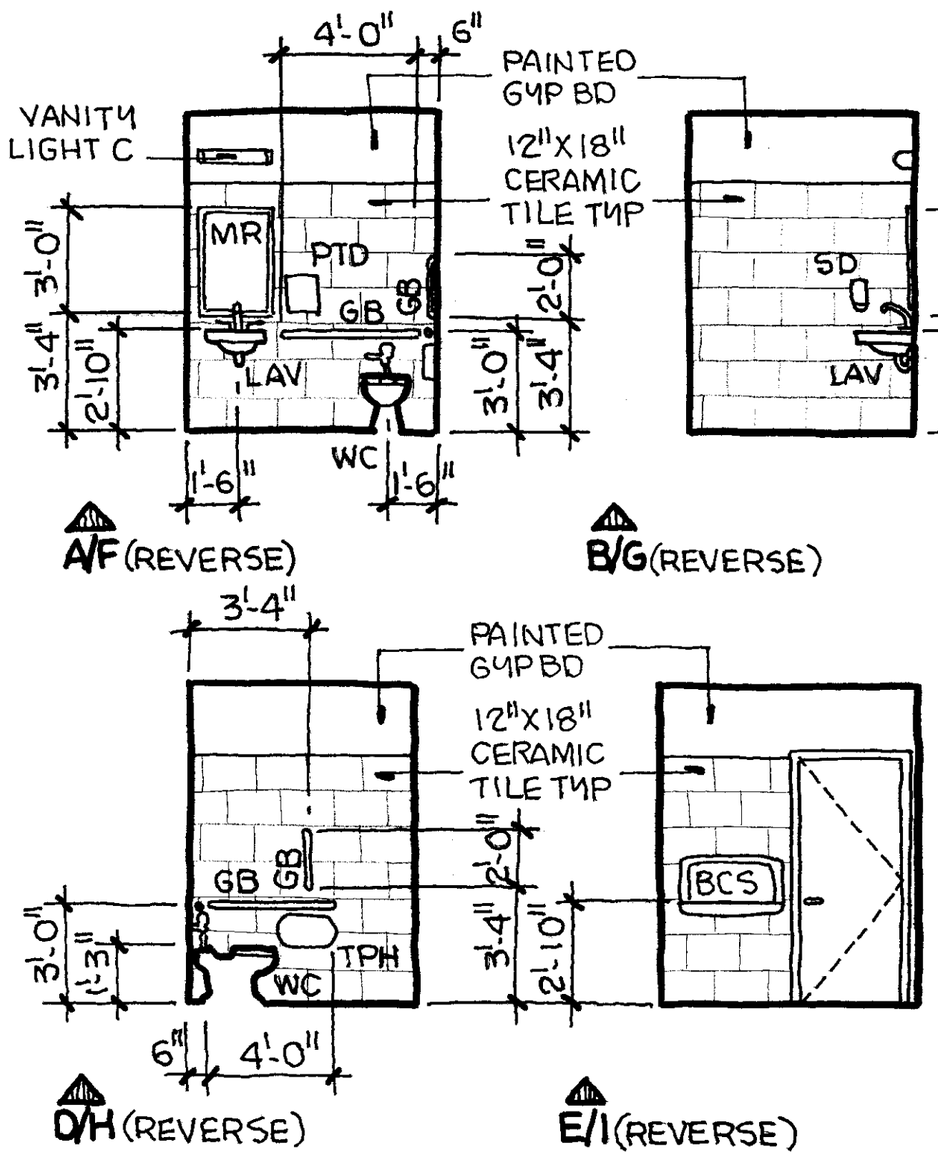
0' 4' 8'



east elevation

0' 4' 8'





interior elevations

0' 2' 4'

PROJECT: Senior Room Addition
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SKETCH: Elevations

DATE: 11/15/21 SHEET: 08

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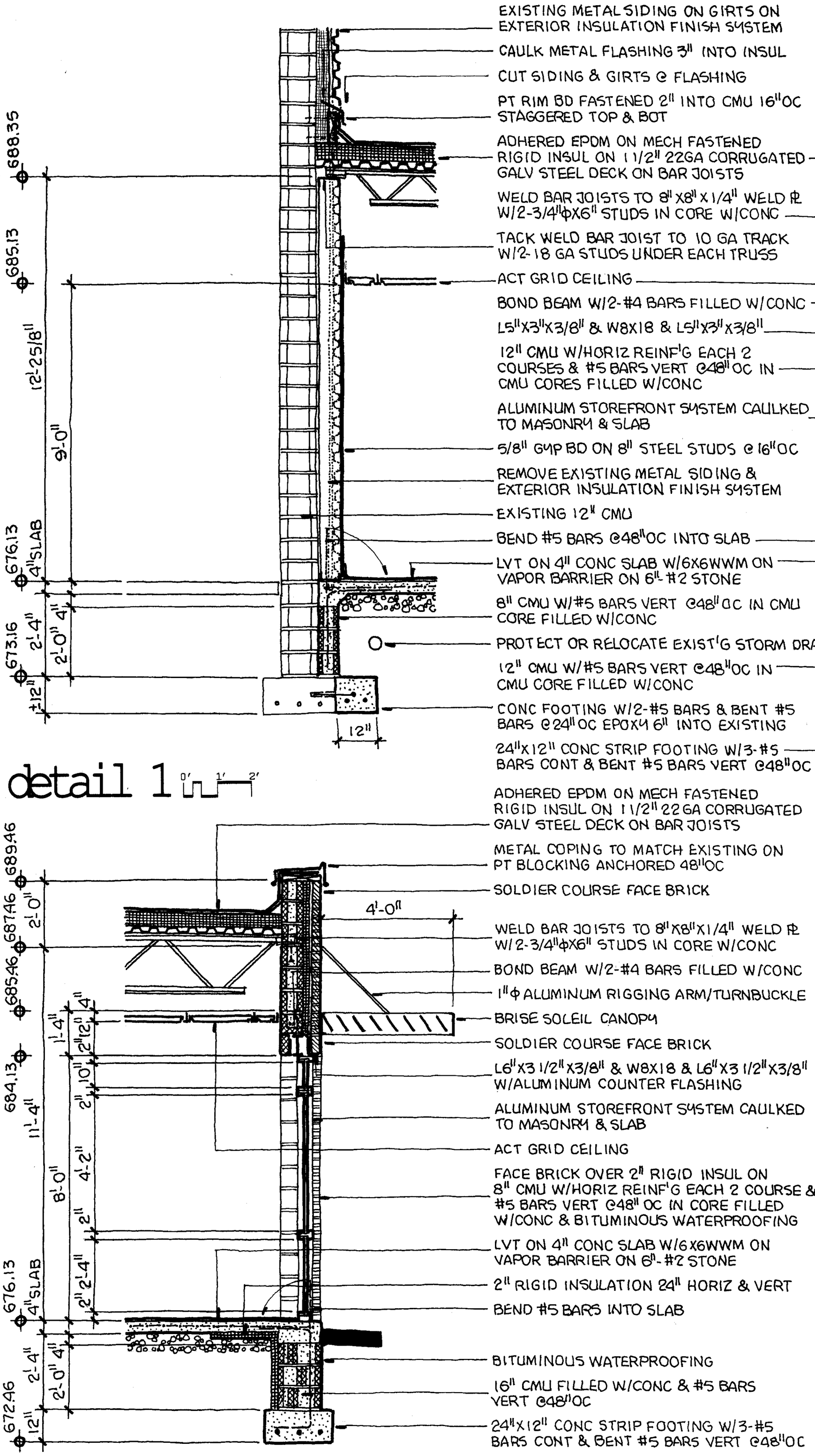

PROJECT: Senior Room Addition
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SKETCH: Details

DATE: 11/15/21 SHEET: 09

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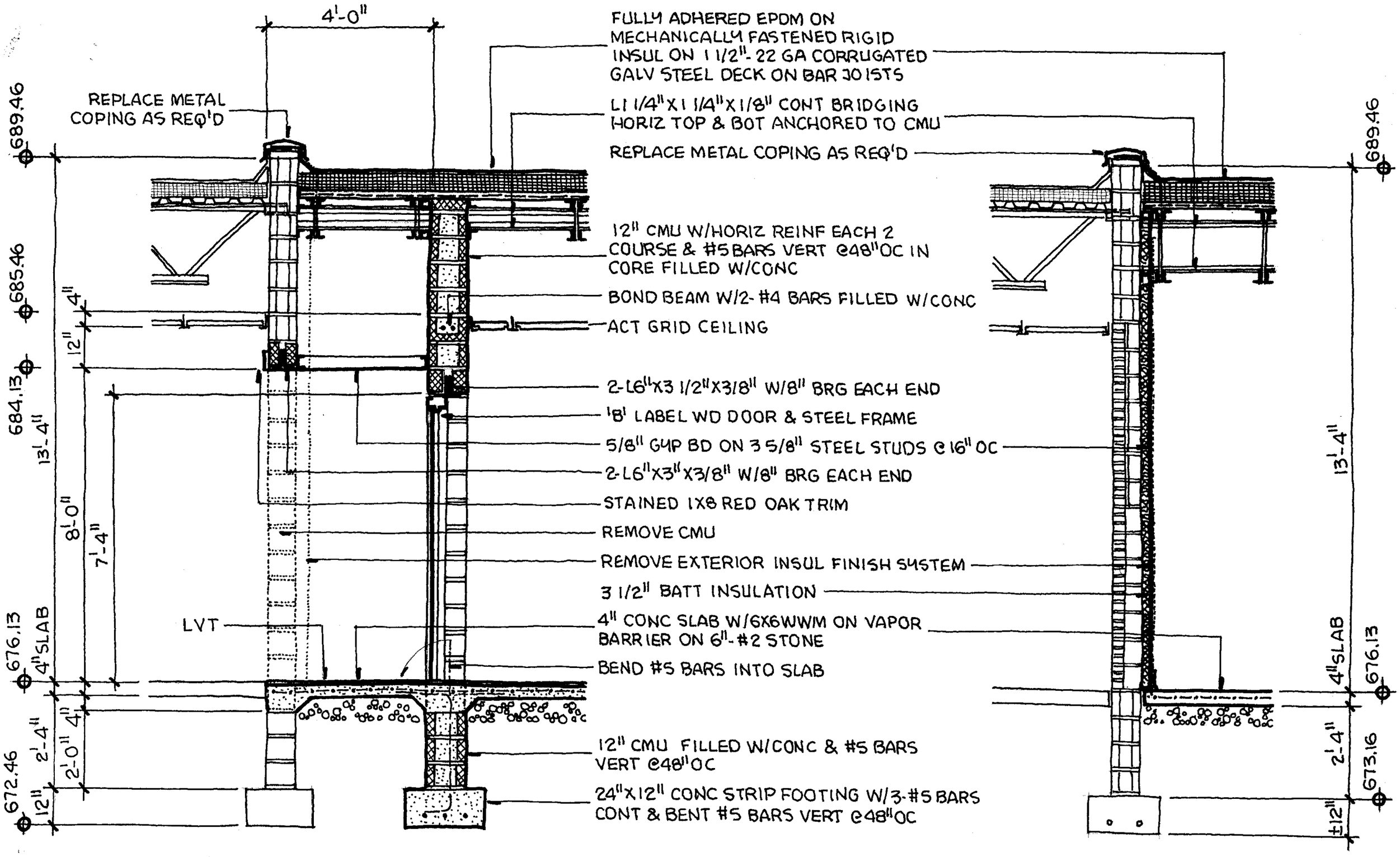
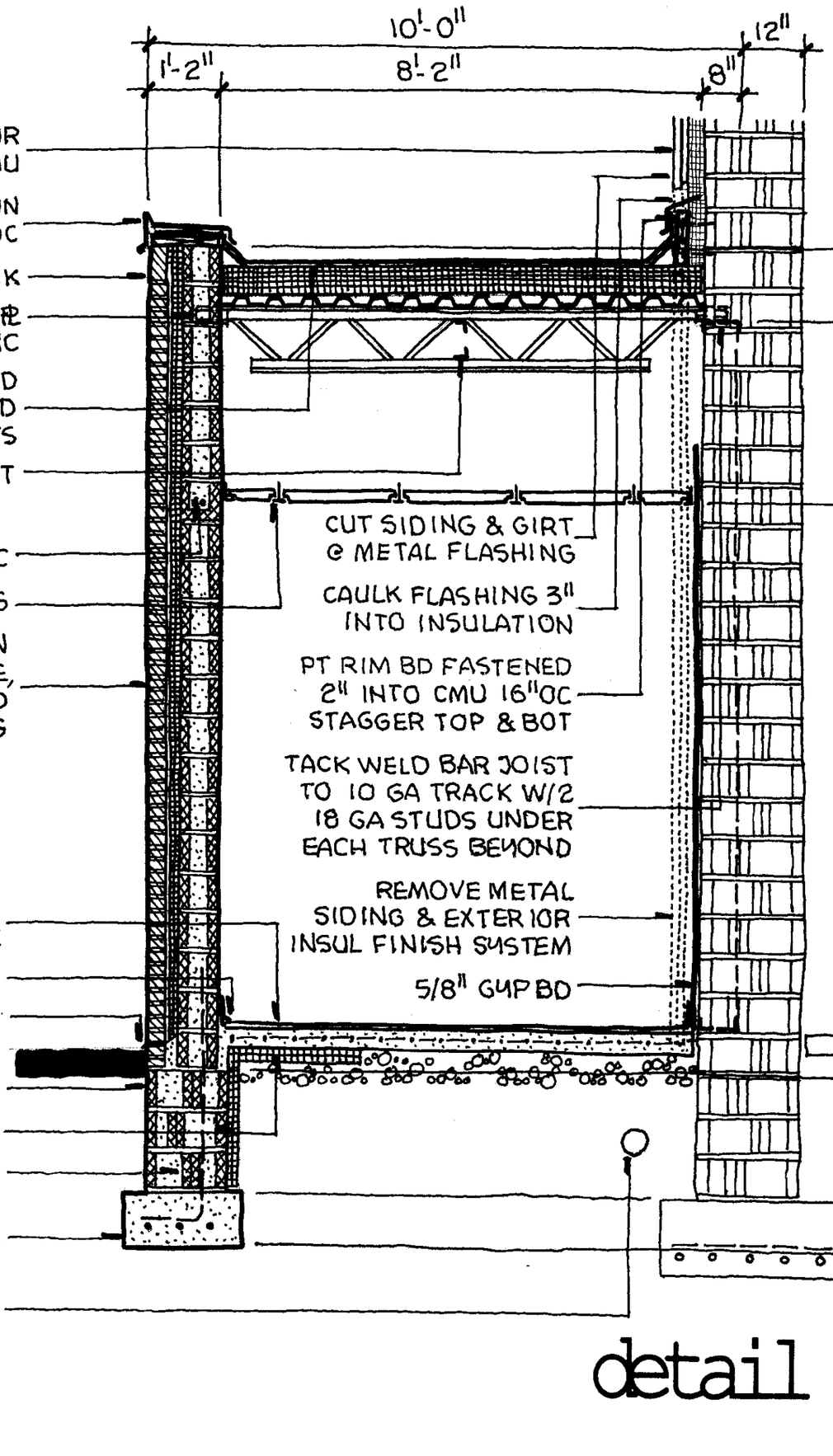


detail 4



detail 5

detail 6

PROJECT: Senior Room Addition
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SKETCH: Details

DATE: 11/15/21 SHEET: 10

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GENERAL CONSTRUCTION

1. SITE & ADDITION PROTECTION:
   - A) Fencing; Place snow fence type barricade surrounding construction site before any excavation activity takes place. Barricade shall be left in place through duration of project. Maintain safe vehicular & pedestrian access to the site.
   - B) Protection; Protect all existing site amenities & utilities not designated for removal. Maintain site conditions, which shall prevent tracking or flowing of sediment onto public right-of-ways, keep clean & free the road from dirt, mud, stone, debris, & other hauled materials as a result of his/her work.
   - C) Temporary Facilities; Provide all temporary enclosures & heat as required for winter conditions execution of the work.
   - D) Use of Existing Parking Lot; Staging & parking areas are to be coordinated w/Owner.

SITEWORK

1. EXCAVATION: All footings to rest on undisturbed (original) soil. Assumed minimum soil-bearing pressure to be 2,000 PSF. The Contractor is to be responsible for all subgrade conditions & support of all temporary embankments & excavations.
2. FOOTINGS: Minimum depth 48" below finished grade & at least 6" into natural undisturbed soil.
3. SLAB BASE: 6" - #2 clean crushed stone.
4. SITE STORM & SANIATARY: Contractor shall provide new 6"ϕ sanitary lateral from outside of new addition to & including new manhole intercepting existing 8"ϕ sanitary sewer main. Comply w/PCNYS & "Standard Specification for Type PSM Poly Vinyl Chloride (PVC) Sewer Pipe & Fittings".
   - A) Piping; Solid-Wall PVC Pipe ASTM D2665, drain, waste & vent Schedule 40.
   - B) Adhesive Primer; ASTM F656.
   - C) Solvent Cement; ASTM D2564.
   - D) Cleanouts; Inside caulk, threaded countersunk plug, square scorated top, neoprene gasket.
   - E) Manhole; 60"ϕ segmental reinforced pre-cast concrete barrel ASTM A185 sections, w/ASTM C443 rubber O-ring lapped butyl joints, polypropylene ladder rungs, bitumastic coating, 60"ϕ to 48"ϕ dog-house top section w/R-1726-A iron rim & manhole cover & precast concrete bottom w/field formed concrete flow trench. Provide sanitary sewer drop inlet to bottom. Set unit in #2 crushed stone.
5. GRADING: 2% slope for drainage minimum.
6. SEEDING: Fine grade & seed areas disturbed during construction. Sow grass seed uniformly into 4" raked topsoil.

CONCRETE

1. CONCRETE:
   - A) Strength; All concrete shall be normal weight nominal air dry density of 145 PCF, truck mixed.
     1) Footings & Slabs: 4,500 PSI, 4" slump.
     2) Sidewalks: 4,000 PSI, 3" slump, air entrainment 4-6% & surface hardener.
        - a) Floor Finish; Hard steel trowel finish.
        - b) Exterior Slab/Sidewalk; Broom finish.
   - B) Placement; All concrete design & construction to conform to ACI 318-83 & ACI 301-72 (latest edition).
   - C) Curing Compound; Clear premium grade water based curing compound formulated from hydrocarbon resin ASTM C309, type 1, class B.
   - D) Water Reducer; Add medium range plasticizer, modified glucose polymer WRDA.
   - E) Calcium; No calcium chloride shall be used in any concrete.
2. REINFORCEMENT: ASTM A615, Grade 60. Deformed #5 reinforcing bars, 3" concrete cover minimum, lap 2'-6" at ends.
3. WELDED WIRE MESH (WWM): ANSI/ASTM A185 welded steel, 6X6 - 10/10 configuration.
4. VAPOR RETARDER: 6 mil polyethylene, ASTM D 4397, vapor barrier installed under slab. Lap 6" at all joints.

MASONRY

1. UNIT MASONRY: Concrete masonry (CMU) shall conform w/ACI 531-89.
   - A) Concrete Block; Normal-weight, ASTM C145 & C90 Type 1, Grade N, F'm = 1,900 psi minimum.
   - B) Mortar; ASTM C270, minimum 28-day compressive strength equal to 2,500 PSI., Portland cement-lime mortar, Type S above grade, Type M below grade, other types as required by application. Do not use mortar that contains calcium chloride or automotive anti-freeze.
   - C) Grout; Use fluid grout, not masonry mortar for filling vertical wall cells & horizontal bond beams. Place grout using either the low lift or high lift grouting method in maximum 4' lifts. Grout shall have a minimum 28-day compressive strength of 3,000 PSI. Do not use grout w/calcium chloride or automotive anti-freeze.
   - D) Reinforcing;
     1) Horizontal Reinforcing; Welded truss type, 9 gage wire w/deformed side rods, 2" less than width of wall.
     2) Reinforcing Bars; Deformed bars, ASTM A615, Grade 60.
     3) Placement; Place bars 2 1/2" from inside face. Lap all splices 36 diameters. Fill cores solid w/grout at all vertical reinforcing & 4 courses minimum below beam pockets. Consolidate grout in place by vibration to insure complete filling of cells. Provide horizontal joint reinforcing at 16" O.C. unless noted otherwise.
   - E) Tooling; Tool joints concave to match existing.
   - F) Cleaning; After mortar is set, remove excess particles by hand w/non-metallic scrapers. Clean new CMU as per NCMA TEK 45.
2. BRICK MASORNY:
   - A) Face Brick; ASTM C 216, Grade SW, Type FBS, match existing adjacent brickwork.
   - B) Weep Vents; 2 1/2" X full width of brick, flexible ultra violet stable recycled rectangular polyester mesh. Match mortar color.
   - C) Cavity Wall Mortar Net; 10" high X thickness of cavity, lightweight polyethylene, 90 percent open woven mesh by Mortar Net USA.
   - D) Corrugated Wall Ties; 22 gage corrugated steel, 7/8" wide X 7" long, ASTM A 153, Class B-2, 1.5 oz/SF hot dipped galvanized after fabrication.
   - E) Flashings; Mill finish .032" aluminum sheet ASTM B 209.
   - F) Preparation; Wet brick one day before use until excess water runs off. Allow brick surfaces to dry before use. Protect from exposure to precipitation, excessive drying, freezing, soiling, & other harmful elements. Cover top of walls w/non-staining waterproof covering when Work is not in progress.
   - G) Placement; Lay exposed brick in running bond, unless otherwise indicated. Match existing mortar joints. Tool exposed joints when "thumb-print" hard w/rounded jointer. Form weep holes in mortar joints of exterior wythe of cavity walls along bottom of cavity above grade & above masonry openings. Space weep holes approximately 24" O.C. Keep weep holes free of mortar droppings & other obstructions. Place vinyl flashing on bed of mortar & cover w/mortar.
   - H) Cleaning;
     1) Clean initially w/stiff brushes and water.
     2) If staining or soiling persists, reclean w/stiff brushes & a solution of trisodium phosphate, detergent, & water (1/2 cup of each in one gallon of water). Rinse w/clean water.

STEEL

1. STRUCTURAL STEEL: Detail, fabricate & erect in accordance w/latest AISC specification.
   - A) Steel Plate, Shapes & Bars; ASTM A36.
   - B) Fasteners; High strength bolts & nuts, ASTM A-325, Grade A. Anchor bolts shall be ASTM A-307 or ASTM A-36.
   - C) Shop Paint; SSPC-Paint 2, (minimum dry-film thickness 2.0 mils).
   - D) Connections; Designed for the end reactions computed from the table "Uniform Load Constraints" in the AISC manual unless otherwise noted. Composite beam connections shall be designed for 1.6 times these values.
     1) Shop Connections; Welded or made w/3/4" high strength bolts ASTM A-325N.
     2) Field Connections; 3/4" high strength bolts ASTM A-325N. Tighten by turn of nut method. Threads in shear plane permitted.
   - E) Welding; All welding shall be done using E-70XX electrodes in accordance w/latest AWS specification.
2. OPEN WEB K-SERIES STEEL JOIST: Design, fabricate & erect in accordance w/"Standard Specifications for Open Web Steel Joists, K-Series", by the Steel Joist Institute (SJI Specifications).
   - A) Shop Drawings; Show application to project. Include erection drawings, end bearing, anchorage details & bracing details.
   - B) Installation; Erect joists in compliance w/SJI Specifications. Adjust & align in accurate location & spacing before fastening. Install bridging simultaneously w/joist erection, before any construction loads are applied. Anchor ends of bridging lines at top & bottom chords where terminating at walls or beams. Fasten ends of joists resting on steel supports w/minimum of two 1/8" fillet welds, each 1" long, unless otherwise indicated.
3. STEEL DECKING: 1 1/2" X 22 gauge class G60 hot-dip galvanized wide rib corrugated steel roof deck conforming to ASTM A611 w/minimum yield strength of 33 KSI.
   - A) Fastening; Weld metal deck 12" O.C. to support steel thicker than 1/4" with 3/4" ϕ puddle welds & with #12 TEK self-drilling fasteners at supporting steel ≤ 1/4". Fasten side laps at 30" maximum on center.
   - B) Openings; Provide reinforcing at opening greater than 6" ϕ.
4. COLD FORMED METAL FRAMING: Comply w/"Specification for the Design of Cold-Formed Steel Structural Members" by the American Iron & Steel Institute (AISI Specification).
   - A) Framing (including Studs, Tracks, Joists, Perimeter Channel & Rafters); 20 ga non-load bearing & 14 ga load-bearing studs galvanized, structural quality sheet steel; ASTM A446, Grade A (minimum yield 33 KSI).
   - B) Bracing, Bridging, Strapping, Reinforcement, Stiffeners, Plates, Gussets, Clip Angles & Hangers; Unless otherwise indicated, metal framing manufacturer's standard products formed from ASTM A446 galvanized, structural quality sheet steel. Provide all bracing, blocking & strapping as required.
   - C) Self-Drilling Fasteners; Cadmium plated, No. 12-14 X 3/4", hex washer head, self-drilling, self-tapping fastener w/pilot point.
   - D) Shop Drawings; Provide erection & fabrication drawings of pre-assembled truss framing including bracing & strapping.

PROJECT: Senior Room Addition
Sweden/Clarkson
Community Center

SKETCH: Construction Spec

DATE: 11/15/21 SHEET: 11

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THERMAL/MOISTURE

1. SLAB & CMU INSULATION: 2” extruded closed cell polystyrene, R=10.
2. WALL INSULATION: 3 1/2” fiberglass un-faced batt insulation, R=15. Install in stud cavities in a manner that provides full continuity.
3. SINGLE-PLY MEMBRANE ROOFING: Fully adhered, class R reinforced, 60 mil black ethylene propylene diene monomers (EPDM) formed into uniform, flexible sheets, complying w/ASTM D 4637, Type 1 complying w/manufacturer's standard installation. Provide written warranty signed by manufacturer & his authorized installer agreeing to replace/repair, w/no dollar limit, defective material & workmanship for a 20 year period. Installation & all perimeter & accessory details per manufacturers specifications.
   - A) Roofing Accessories; Edge strips & flashings as specified by roofing manufacturer.
   - B) Penetrations; Preformed pipe seals to be premolded cured EPDM with sealants & clamps as supplied by roofing manufacturer.
   - C) Perimeter Metal; All metal copings/wall caps to be 24 gauge galvanized steel w/20 year Kynar 500 finish to match existing. Include all exposed & concealed fasteners, sealants, flashing materials & adhesives as required for complete assembly of system. Metal caps to be formed snap-on type.
   - D) Roof Insulation; 6” minimum R=30 rigid, cellular, thermal insulation w/polyisocyanurate closed-cell foam core & manufacturer's standard facing laminated to both sides, complying w/FS HH-I-1972/2, Class 1.
     1) Mechanical Anchors: Corrosion-resistant type as recommended by insulation manufacturer for deck type & complying w/fire & insurance wind-uplift rating requirements. Provide system tested & approved for I-90 wind-uplift rating. No less than 1 anchor per 4 SF.
     2) Tapered Insulation; Provide 1/4” per foot cricket.
3. JOINT SEALANT:
   - A) Caulk; Single component silicone rubber sealant, ASTM C920, Type S, Class 25, non-sag, color to match adjacent surface.
   - B) Backer Rod; Closed cell polyethylene.

DOORS/WINDOWS

1. ALUMINUM STOREFRONT DOORS & WINDOWS: Comply w/AAMA 101, & for structural requirements ASTM E 330, air infiltration ASTM E 283, & water penetration ASTM E 547. Maximum U value .69 BTU/hour/sq.ft./deg. F. @ 15 mph wind velocity.
   - A) Framing System; 2” X 4” extruded aluminum, complying w/ASTM B 221, w/closed cell polyurethane insulated panel cores, concealed fasteners, reinforcing and flashings.
   - B) Design; 1 3/4” doors w/narrow stiles (2” nominal).
   - C) Finish; Thermoset fluorocarbon finish (KYNAR 500) dark bronze to match existing.
   - D) Glazing; Comply w/ANSI Z97.1 & 16 CFR installed w/snap-in aluminum glazing stops.
     1) Exterior; Hermattically sealed, insulated double 1/4” tempered glass, tint to match existing.
     2) Interior; 1/4” tempered clear glass
   - E) Hardware; All hardware to comply w/ADA.
     1) Hinges: 5 knuckle, 2-ball bearing butts, sized to comply w/ANSI A156.1.
     2) Closer: Overhead surface mounted per/ANSI A156.1 grade 1.
     3) Weatherstripping: Compressible, replaceable, molded neoprene gaskets, comply w/ASTM D2000.
     4) Electric Strike: Mortise style retractable strike, wire to junction box above ceiling for future card reader.
     5) Exit Device: Rim device panic bar comply w/NFPA 101 Section 5-2.1.7, lockable lever handle outside. Key to match building.
     6) Threshold: Mill finish extruded aluminum.
2. INTERIOR DOORS: Comply w/ANSI/SDI-100 & ANSI 117.1 (ADA/handicap accessibility). Fit doors to frames & floors w/clearances specified in SDI-100. Set units plumb, level true to line, without warp or rack in frames or panels. Provide ‘B’ labeled assembly where indicated.
   - A) Steel Frames; 18 gauge, knock-down construction w/conceal fastenings, mitered corners, finish w/rust inhibitive primer for gloss paint finish.
   - B) Interior Wood Doors (WD); 1 3/4” thick, flush oak veneer, solid core complying with NWMA and AWI quality standards with transparent stain finish.
     1) Hinges: (3) 4 1/2” 5-knuckle ball-bearing hinges.
     2) Closers: Overhead surface mounted ANSI A156.1 grade 1.
     3) Panic Bar/Lockset: Surface mounted rim device panic bar ANSI grade 1, low profile aluminum cross bar w/hardened steel latch bolt.
     4) Lockset/Latchset:
        - a) Storage; Lever-handled keyed cylinder type lockset ANSI A156.5, F86 store room function. Provide top & bottom thumb bolt on dead leaf.
        - b) Toilet Rooms; Lever-handled cylinder type lockset ANSI A156.5, F76 privacy function.
        - c) Mechanical Room; Lever-handled keyed cylinder type lockset ANSI A 156.5, F86 function.

FINISHES

1. GYPSUM WALLBOARD:
   - A) Wallboard; 5/8” type ‘X’, bevel edged gypsum wallboard complying w/ASTM C36 for walls including taping, casing beads & trim. 5/8” water resistant backing board comply w/ASTM C630 in toilet & wash rooms. Installation to comply w/ANSI A97.1 “Specifications for Application for Finishing Wallboard”.
   - B) Screws; Type W, 1 1/4” GWB screws.
2. CERAMIC TILE: Comply w/ANSI A13.1 Standard Spec for Ceramic Tile.
   - A) Unglazed Ceramic Tile; 12”X18”, Standard Grade, Bushhammered Porcelain w/plain face & cushion edges, color to be selected.
   - B) Setting Material; ANSI A118.4 latex-Portland cement mortar.
   - C) Grouting Material; ANSI A118.6 latex-Portland cement grout color to be selected.
   - D) Elastomeric Sealant; Chemically curing, one-part mildew-resistant silicone, ASTM C 920, Type S, Grade NS, Class 25.
   - E) Installation; ANSI 108 series of tile installation.
     1) Pattern; Use grid pattern w/1/16” wide joints.
     2) Joints; Seal tile joints w/elastomeric sealants.
3. ACOUSTICAL CEILING:
   - A) Mineral-Base Tile; 24”X48”X3/4” nodular, cast or molded, w/painted finish, Type III, Form 1 units per ASTM E 1264, tegular/reveal edges & fissured/glacier pattern. Flame spread <25 & smoke development <50 per ASTM E84.
   - B) Direct-Hung Inverted Tee Steel Suspension System: White runners roll-formed pre-painted or electrolytic zinc-coated cold-rolled steel sheet.
4. LUXURY VINYL TILE (LVT): 18”X36” ASTM F-1700, CLASS III, Type B, 0.125” thick w/32 mil wearing layer, emboss texture & color to be selected.
   - A) Extreme Performance Adhesives; Industrial-high traffic, isocyanate adhesive, for use on concrete slabs w/99% RH per ASTM F-2170, 13 pH per ASTM F-170 & 12#/1,000 SF vapor transmission per ASTM F-1869 calcium chloride test.
   - C) Edge Guards; Extruded or molded heavy-duty vinyl or rubber minimum 2” wide anchorage flange, ADA compliant, color to be selected.
   - D) Resilient Base; 6”X1/8” standard top-set cove complying with FS SS-W-40, type II with matching end stops and preformed corner units. Color to be selected.
5. FIBER REINFORCED PANELS (FRP): Class A, White, install directly to drywall, floor to ceiling. Provide all seam covers for panel joints, corners, & top & bottom J-trim.
6. PAINTING:
   - A) Paint & Stain; Only one paint brand & one stain brand shall be used throughout the project. Paint & stain colors to be selected by Owner.
   - B) Paint Schedule;
     1) Interior Drywall:
        1 coat latex wall primer, &
        2 coats alkyd semi-gloss, eggshell enamel.
     2) Interior Masonry:
        1 coat vinyl acrylic block filler, &
        2 coats exterior semi-gloss acrylic.
     3) Interior Wood Doors:
        1 coat stain
        2 coats clear sealer

SPECIALTIES

1. BRISE SOLEIL CANOPIES: Horizontal, wall hung outriggers & turnbuckles, aluminum louvered sunshades w/thermoset fluorocarbon finish (KYNAR 500) dark bronze to match storefront windows, in dimensions shown.
   - A) Outriggers; 12” heavy gauge .125” thick aluminum w/concealed fasteners, mitered outside corners & intermediate outriggers as required by manufacturer.
   - B) Rigging Arm/Turnbuckle; Threaded 1”ϕX.085” type 6063-T5 aluminum w/4” turnbuckle adjustment, series 300 stainless steel swage & bolts, & type 6063-T5 aluminum upper & lower mounting brackets each w/(4) 1/2”ϕX8” stainless steel insert bolts to building.
   - C) Blades; 8” heavy gauge 0.081" thickness aluminum 8” on center @ 35° angle.
2. TOILET ACCESSORIES: All accessories & mounting locations per ADA.
   - A) Grab Bars (GB); 1 1/2”ϕX2” projection X lengths shown surface-mounted heavy duty, stainless steel.
   - B) Mirrors (MR): 24”X42” surface-mounted, channel-framed tilt, 1/4” laminated glass mirror.
   - C) Toilet Paper Holder (TP); Surface-mounted, 20 gauge min., dual-roll, drop-style, vandal-resistant, lockable, controlled delivery.
   - D) Paper Towel Dispenser (PTD); C-fold, surface-mounted, 20 gauge min., vandal-resistant, lockable.
   - E) Soap Dispenser (SDR); Wall-mounted, vandal resistant, push valve operation w/16 oz. capacity.
   - F) Baby Changing Station (BCS); ANSI Z535.4 horizontal wall mounted, blow-molded high density polyethylene w/antimicrobial additive, reinforced full length steel hinge, pneumatic cylinder closer, contoured changing surface & nylon safety strap.
   - G) Signage; Provide 1/8” thick ‘ES’ plastic sign for “Men” & “Women” toilet room, meeting ADA requirements. Color & lettering to be selected.
3. ROLLER SHADES (RS): Extruded aluminum non-deflecting rollers w/continuous-loop bead chain & clutch operation, w/woven light filter stain, fade & flame resistant fabric per NFPA 701. Shades to be 17”X96” & 58”X96” to align w/vertical window mullions & have battens @32” on center vertical. On exterior windows, color to be selected.
4. FIRE EXTINGUISHERS (FE): 5# A:B:C dry chemical type, U.L. labeled extinguisher in semi-recessed, enameled steel construction extinguisher cabinets w/clear glazed, steel framed door & silk screened lettering “FIRE EXTINGUISHER” in accordance w/NFPA 10.

PROJECT: Senior Room Addition
Sweden/Clarkson
Community Center

SKETCH: Construction Spec

DATE: 11/15/21 SHEET: 12

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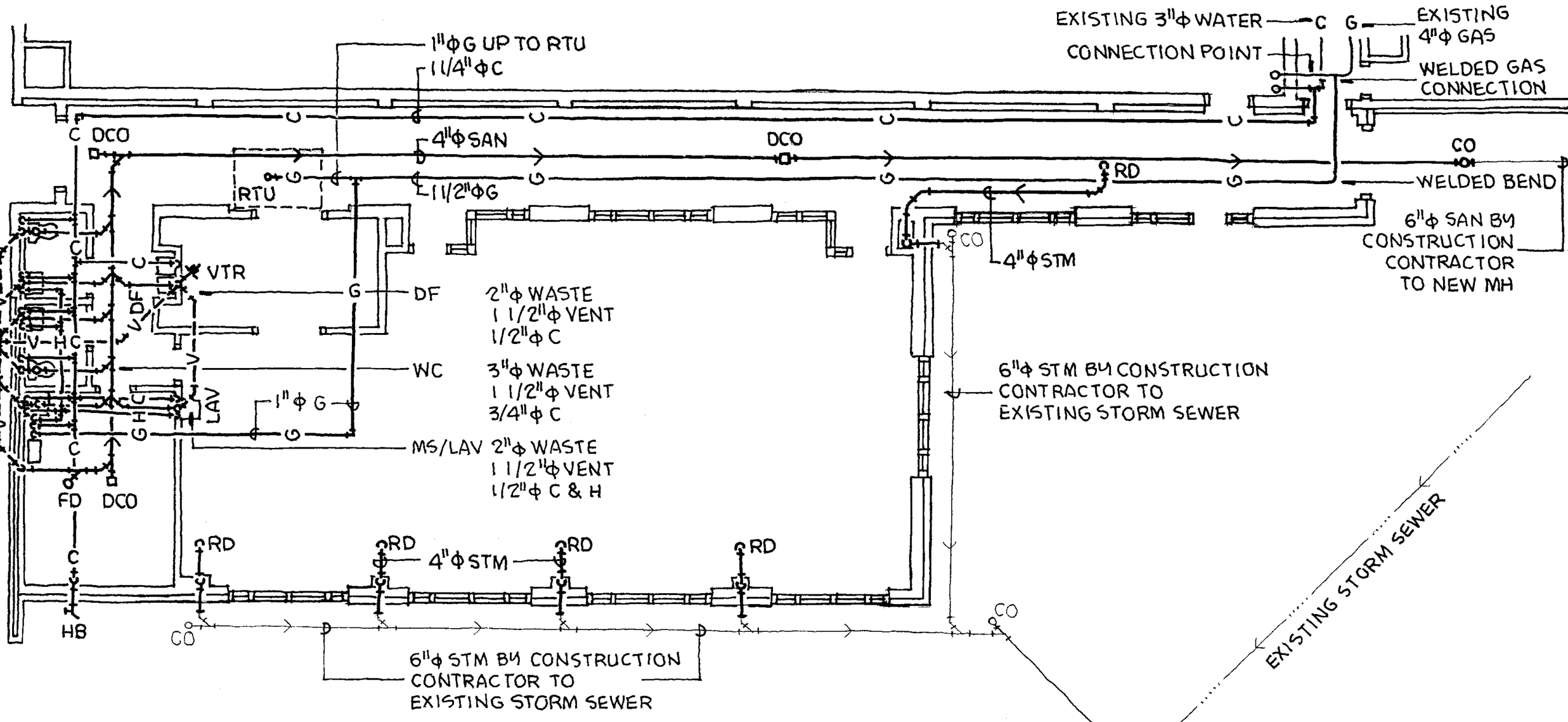

plumbing plan

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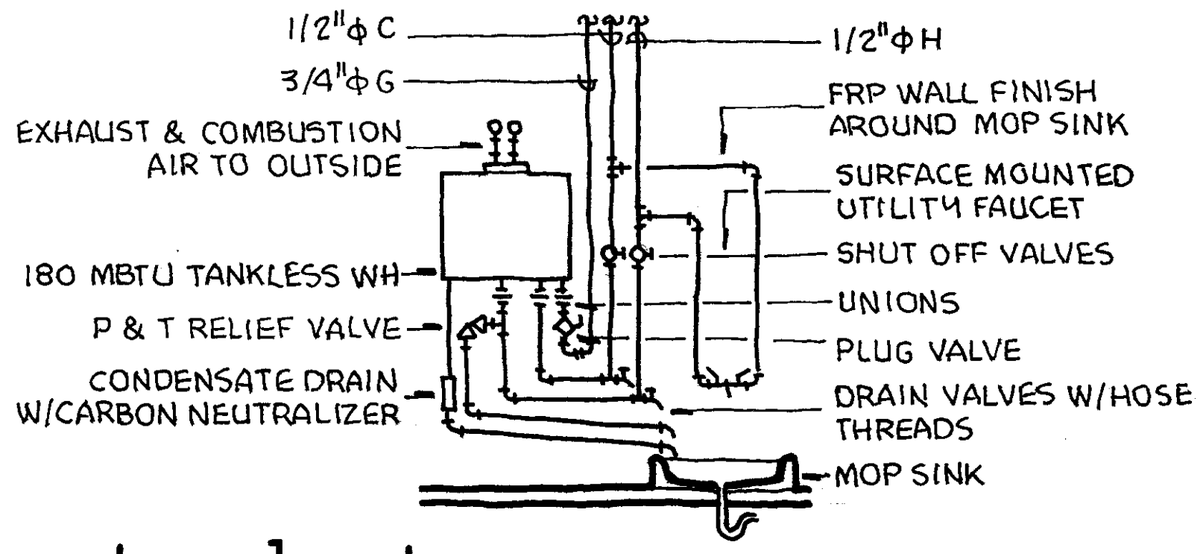

water heater

PLUMBING

1. NATURAL GAS PIPING: Comply w/FGCNYS & NFPA 54 National Fuel Gas Code.
   - A) Interior Steel Pipe; ASTM A120, Schedule 40, seamless, black steel pipe, beveled ends.
   - B) Fittings; Malleable-Iron Threaded Fittings: ANSI B16.3, Class 150, standard pattern, for threaded joints. Thread shall conform to ANSI B1.20.1.
   - C) Joint Compound; Suitable for the gas being handled.
   - D) Unions; ANSI B16.39, Class 150, black malleable iron, female pattern brass to iron seat, ground joint.
   - E) Dielectric Unions; ANSI B16.39, Class 250; malleable iron & cast bronze w/threaded connections designed to isolate galvanic & stray current corrosion.
   - F) Plug Valves; 150 psi WOG, bronze body, straightaway pattern, square head, threaded ends.
   - G) Installation; Install exposed piping at right angles or parallel to building walls. Use fittings for all changes in direction & all branch connections. Provide supports & hangers as required. Conceal piping where possible.
   - H) Terminal Equipment Connections; Install gas valve upstream & within 6' of gas appliance. Install a union downstream from the gas cock to permit removal. Install sediment trap tee fitting w/bottom outlet plugged as close to the inlet of the gas appliance as practical. Drip leg shall be a minimum of 3 pipe diameters.
2. DOMESTIC WATER PIPING: Comply w/PCNYS.
   - A) Interior Water Piping System; Cross-linked Polyethylene (PEX) ASTM F877 plastic hot & cold water distribution systems including press & crimp fittings.
   - B) Domestic Water Valves; 150 psi SWP, bronze, two piece body, TFE seats, brass ball, PEX connector, balancing stop plate.
   - C) Hose Bibs; 3/4" anti-syphon type w/brass casing, integral backflow preventer, nickel brass face & straight inlet connection. Extended stem frost-proof at exterior locations.
   - D) Insulation; 1" fiberglass insulation, ASTM C-547, class 1, vapor barrier for all piping, ASTM C-921, type 1, premolded PVC fitting covers for all fittings. All piping insulation to be composite (jacket, insulation & adhesive) fire & smoke hazard rating as tested under procedure ASTM E-84, NFPA 255 & UL 723, flame spread rating <25 and smoke developed rating <50.
   - E) Installation; Grade horizontal piping to drain. Take care that no sags, humps or air pockets are left. Pitch piping upwards in direction of flow. Provide air chambers on water supplies to individual fixtures. Insulate all cold & hot water piping.
   - F) Testing; Fill to 125 PSI hydrostatic pressure for 24 hours. There shall be no noticeable loss of pressure. Fixtures shall not be connected into system during test.
3. SOIL & WASTE PIPING: Comply w/PCNYS & "Standard Specification for Type PSM Poly Vinyl Chloride (PVC) Sewer Pipe & Fittings"
   - A) Piping; Solid-Wall PVC Pipe ASTM D2665, drain, waste & vent Schedule 40.
   - B) PVC Socket Fittings; ASTM D2665, made to ASTM D3311, drain, waste & vent patterns & to fit Schedule 40 pipe.
   - C) Adhesive Primer; ASTM F656.
   - D) Solvent Cement; ASTM D2564.
   - E) Cleanouts; Inside caulk, threaded countersunk plug, square scorated top, neoprene gasket.
   - F) Floor Drain; 3" two piece body w/p-trap. Adjustable 6" nickel bronze strainer.
   - G) Installation; Grade "horizontal" piping 1/4" per foot, never less than 1/8" per foot. Connect upper ends of drainage lines to vent system. Terminate vent one foot above roof line.
   - H) Testing; Hydrostatically test to 10' water column for 2 hours.
4. WATER HEATER (WH): 180,000 BTU, 5.0 GPM/70° rise, 96% efficient, wall mounted, natural gas fired direct vented, condensing tank-less instant water heater w/ electronic ignition & controls, low NO_x burner, schedule 40 PVC, 100% outside combustion air & direct exhaust, temperature/pressure relief valves AHRI, CSA & EnergyStar rated.
5. PLUMBING FIXTURES: Comply w/NYS Conservation Law 15-0314. Sink & lavatory facets 3 GPM at 30 PSI. Fittings, trim & accessories to be copper or brass unless noted otherwise. Escutcheons to be cast brass, bright chrome plated w/set screws.
   - A) Water Closets (WC); Floor type, 18" high ADA compliant white vitreous china, elongated bowel w/white solid plastic, open front, no cover seat, low consumption, manual 1.6 GPF flush valve.
   - B) Lavatories (LAV); Wall hung white vitreous china, ADA compliant, w/concealed floor mount wall hanger, front overflow, 4" centers, w/chrome plated, self-mixing no-scald, brass, ADA compliant faucet, chrome plated strainer, 1 1/2" brass adjustable P-trap, drainpipe & tailpiece w/slip couplings meeting ADA dimensions.
   - C) Drinking Fountain (DF); High/low ADA compliant electric water cooler with bottle filling station, stainless steel bowels & cabinets, push bar activated chrome plated bubblers, 1.1-1.5 GPM touchless electronic sensor bottle filler, silver ion anti-microbial protection, 110V/1PH hermetically sealed reciprocating compressor, fan cooled copper/aluminum condenser & EPS insulated continuous copper tube in stainless steel tank cooling unit.
   - D) Mop Sink (MS); 24"X24"X10" molded stone, 3" drain with P-trap, brass drain fittings, chrome plated service faucet w/vacuum breaker & 3/4" hose coupling discharge, pale hook & top brace. Provide hose & hose bracket, a bumper guard & mop hanger.

PROJECT: Senior Room Addition
Sweden/Clarkson
Community Center

SKETCH: Plumbing Plan & Spec

DATE: 11/15/21 SHEET: 13

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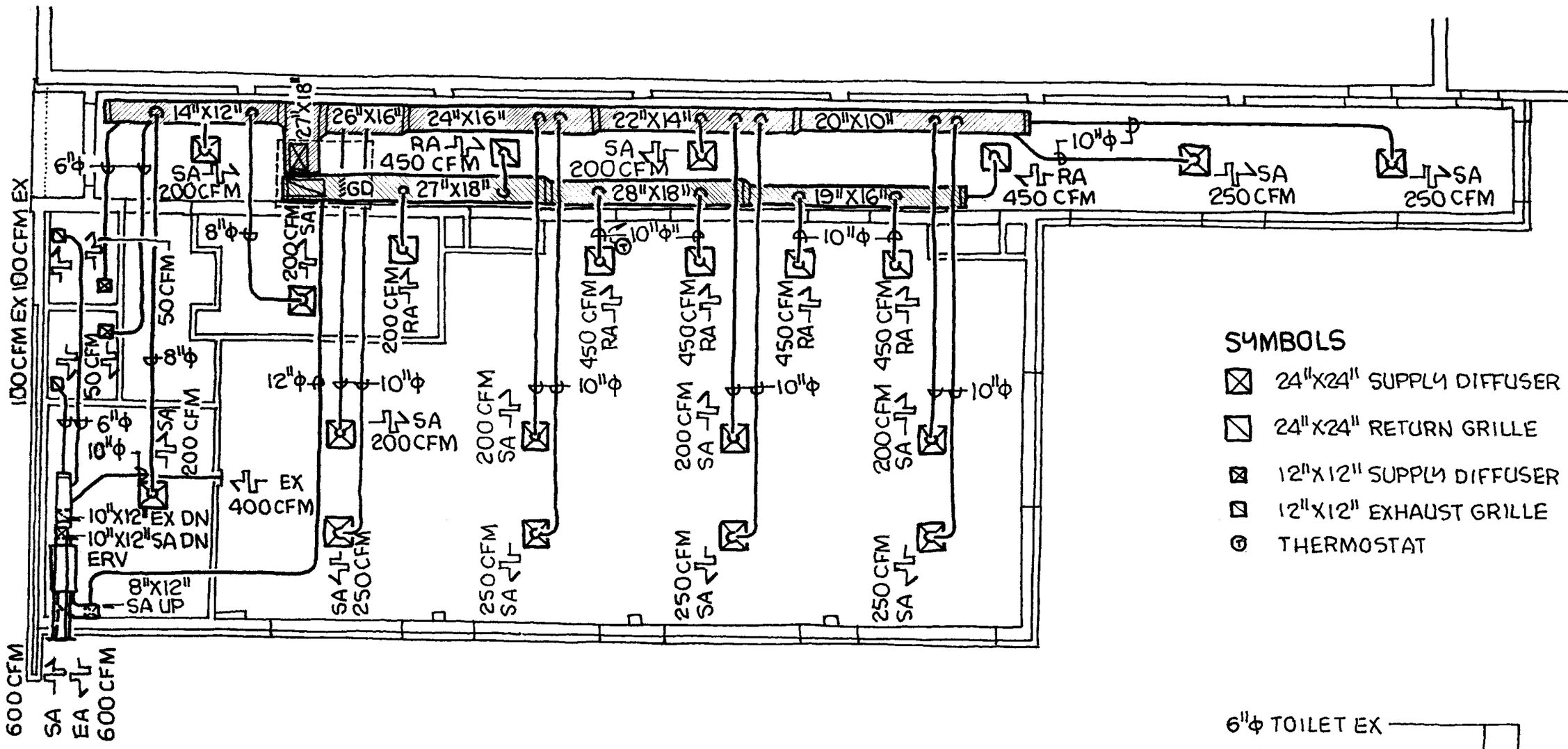

mechanical plan

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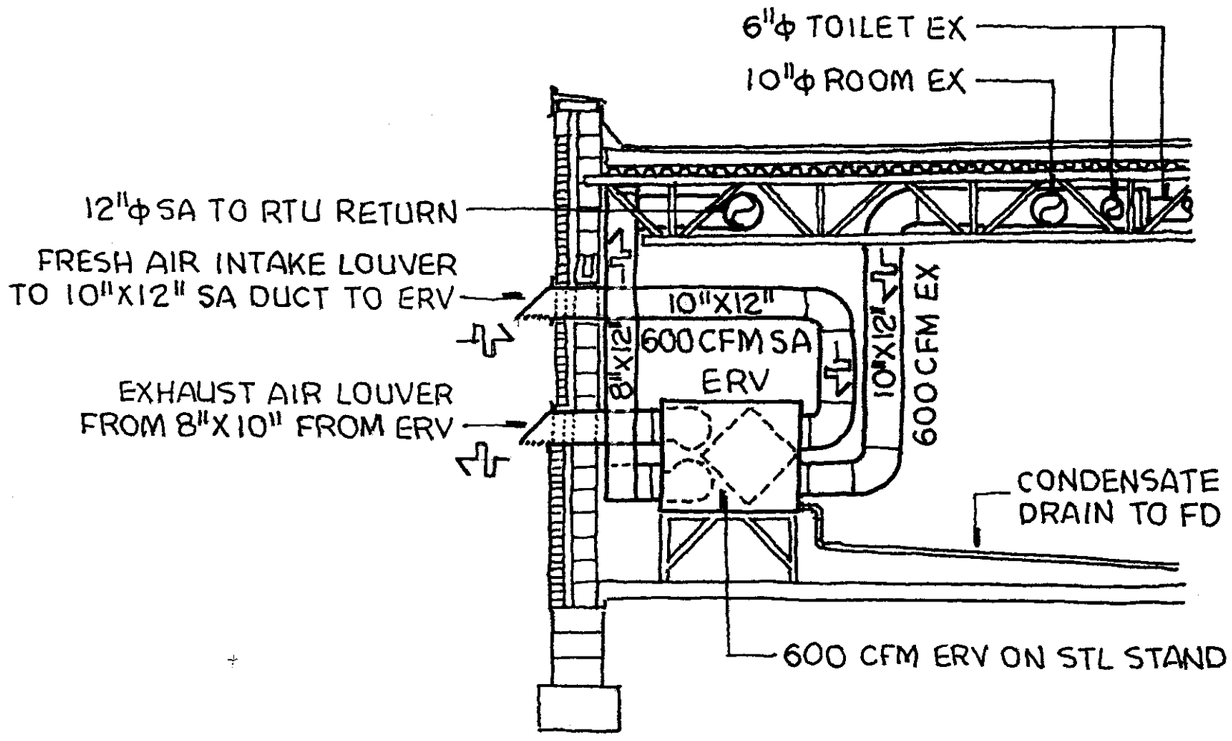

erv detail

MECHANICAL

1. ROOFTOP UNIT (RTU): 10 ton/225,000 BTU nominal, electric cool/gas heat, 3,200 CFM, down-flow medium-heat capacity packaged rooftop unit & 100% economizer w/enthalpy control, stainless steel heat exchanger, CO_2 sensor for demand control ventilating, (2)-5 HP scroll compressors w/(2)-1/3 HP propeller fans, 1 HP centrifugal blower, microchannel coil, motorized outside air damper, barometric relief, electronic thermostat & microprocessor controls w/connection to existing BCS, U.L. listed starters, roof curb, Merv 13 filters, 208V/3 phase, 25 amp breaker, EER = 11.2, & AFUE = 80%.
2. ENERGY RECOVERY VENTILATOR (ERV): AHRI certified, 80% efficient @ 600 CFM & 40% relative humidity, modular (6 section) aluminum heat recovery cores arranged for high efficiency counter-flow ventilation, w/(2) 1/4 HP, PSC, 3 speed double shafted motors each driving two centrifugal blowers, 120 VAC, 3.8 Amps each (7.6 total on high speed). Watts - total on High Speed - 912. MCA: 9.5 MOP: 15, in 20 ga galv case w/internal insulation, condensate drain, microprocessor controls, defrost cycle & humidity control. Install on floor stand.
3. DUCTWORK & ACCESSORIES:
   A) Ductwork; Provide & install all galvanized steel ductwork per SMACNA Duct Construction Standards. Ductwork shall be designed for 2" WG & seal transverse joints per New York State Energy Conservation Construction Code.
   B) Gravity Dampers (GD); Horizontal gravity backdraft damper w/spring assist G-90 galvanized steel frame & aluminum blades. Install in return air trunk to force ERV supply air thru RTU in lieu of return air grilles.
   C) Insulation; Insulate supply air ductwork w/min R=3.5 & vapor barrier. Provide 1" thick acoustic lining & screen on return air ductwork. Inside clear dimensions are shown.
   D) Diffusers/Grilles;
      1) Supply; 24"X24" (12"X12" toilet rooms) rectangular lay-in steel diffuser w/integral slot operated opposing blade volume damper, white painted finish & 8" ϕ flex collar to match existing.
      2) Return; 24"X24" (12"X12" toilet rooms) rectangular lay-in white egg-crate grille to match existing.
      3) Wall Return; Rectangular white flange mount.

PROJECT: Senior Room Addition
Sweden/Clarkson
Community Center

SKETCH: Mech Plan & Spec

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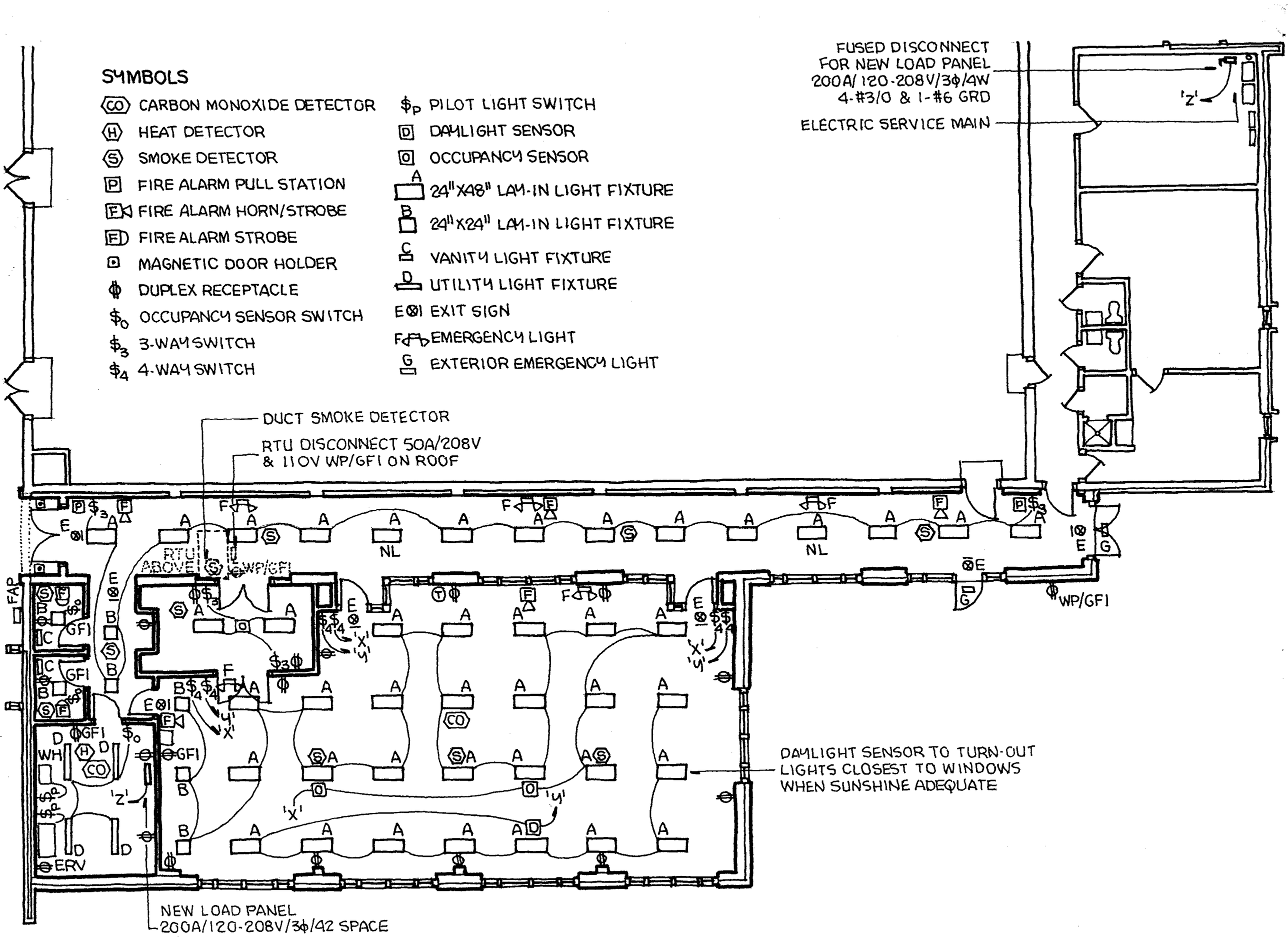
SYMBOLS

- (CO) CARBON MONOXIDE DETECTOR
- (H) HEAT DETECTOR
- (S) SMOKE DETECTOR
- (P) FIRE ALARM PULL STATION
- (F) FIRE ALARM HORN/STROBE
- (F) FIRE ALARM STROBE
- MAGNETIC DOOR HOLDER
- DUPLEX RECEPTACLE
- $_O OCCUPANCY SENSOR SWITCH
- $_3 3-WAY SWITCH
- $_4 4-WAY SWITCH
- $_P PILOT LIGHT SWITCH
- (D) DAYLIGHT SENSOR
- (O) OCCUPANCY SENSOR
- A 24"X48" LAY-IN LIGHT FIXTURE
- B 24"X24" LAY-IN LIGHT FIXTURE
- C VANITY LIGHT FIXTURE
- D UTILITY LIGHT FIXTURE
- E EXIT SIGN
- F EMERGENCY LIGHT
- G EXTERIOR EMERGENCY LIGHT



electrical plan

0' 4' 8'

ELECTRICAL

1. TEMPORARY ELECTRIC: Provide all temporary power & lighting throughout duration of project as required & for other Contractors.
2. COMPLIANCE: Comply w/NFPA-70 (NEC) & NFPA-72.
   A) Underwriter's Certificate; Contractor to secure a certificate of final inspection & approval from local board of fire underwriters.
3. WIRE & CONDUIT:
   A) Conduit; All wiring shall be installed in EMT or rigid steel conduit. Provide nylon pull string in all empty conduit.
   B) Connectors; Malleable iron set screw or 2 screw clamp type, & anti-short bushing.
   C) Wiring; THWN, XHHW, 600V, copper.
   D) Wire Size; Unless otherwise noted or required, all branch circuits shall be 2-#12AWG + #12GRD to a 20A/1P circuit breaker minimum.
   E) Ground; Ground conductor w/green insulation shall be installed in all branches & raceways as an equipment ground.
4. PANELBOARD: 225A, 120-208V/3PH/4W, 42 space, 225A MCB. Bus bars shall be copper. Cabinet shall be code gauge steel w/wiring gutters as per NEC. Panelboard to be surface mounted w/safety type deadfront hinged w/single door, nameplate & typewritten directory on inside.
   A) Circuit Breakers; Molded case snap-in type, 20 A/1P minimum. Size breakers as required per circuit.
5. BOXES & FITTINGS: Galvanized steel, U.L. listed, sized for device.
6. DISCONNECTS: Provide disconnects for HVAC equipment. Disconnects installed outside shall be NEMA 3R.
7. LIGHTING: Provide all lighting fixtures 110V complete & furnished w/drivers. All fixtures UL & Energystar rated.
   A) 24"X24" Lay-In Fixture; Adjustable 19W/29W/39W & 3500K/4000K/5000K CCT LED w/0-10V dimmable driver in die-formed 20 gauge white powder coated steel housing w/frosted polycarbonate lens.
   B) 24"x48" Lay-In Fixture; Adjustable 29W/39W/49W & 3500K/4000K/5000K CCT LED w/0-10V dimmable driver in die-formed 20 gauge white powder coated steel housing w/frosted polycarbonate lens.
   C) Vanity Fixture; 27"X4 5/8"φ white acrylic diffuser on white chassis complete w/ends, HPF ballast & 2-F17T8 lamps.
   D) Utility Fixture; 48" frosted cover pendant 40W, CRI 80+ 4000 LM.
   E) Exit Light; 6" red lit letters including down-lighting w/self-contained charger & 12V battery back-up. Provide remote exterior light at exterior doors.
   F) Emergency Wallpack; Double head w/35 watt bulbs w/self-contained charger & 12V battery back-up.
   G) Exterior Emergency Wallpack; UL924, 120/277V wall mounted nominal 8"X8"X2 1/2" thin profile injection molded 'Black' high impact thermoplastic housing exterior wet location emergency light w/1.4W LED & sealed nickel cadmium 4.8V battery, to match existing.
8. DEVICES: All devices U.L. listed.
   A) Duplex Receptacles; 120V standard duty, NEMA 5-15R white.
   B) Weatherproof Receptacles; Commercial Grade, 15A Duplex GFCI.
   C) Occupancy Sensors; Wall type, 180° viewing angle, 40' range, dual element detection, adjustable time-out delay from 1 to 15 minutes, ambient light & manual off over-ride.
9. SUPPORTS: Provide supports for conduit, cable & equipment.
10. MOUNTING: Mount switches 42" AFF & receptacles 18" AFF unless noted.
11. CIRCUITING: Provide circuits for lighting & receptacles per NEC.
12. FIRE ALARM: Extend existing fire alarm actuating & annunciating circuits. Peripheral devices to be compatible w/existing Simplex 4010 system. Comply w/NFPA 72.
   A) Smoke Detector; Photoelectric detectors interchangeable w/ionization detectors.
   B) Heat Detector; Combination rate-of-rise & fixed-temperature type.
   C) Manual Pull Station; Baked-red enamel finish steel construction w/white lettering.
   D) Horn Strobe; Combination 24 volt DC 87 dB horn & solid state Xenon flashtube w/built-in reflector & pyramid LEXAN lens in red baked-on enamel paint metal construction.
   E) Strobe; 24 volt DC solid state Xenon flashtube w/built-in reflector & pyramid LEXAN lens.
   F) Door Holders; Electromagnetic operated tied to fire alarm notification circuit. Provide power transformers as required.
13. CARBON MONOXIDE DETECTION SYSTEM: 110V AC w/9V battery backup advanced biomimetic or electrochemistry type sensor to determine time weighted average CO levels w/85 decibel alarm, complying w/NFPA 70 & UL 2034, w/manually operated alarm test, reset & silence button, resound within 6 minutes if CO level remains at or above 70 ppm.

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