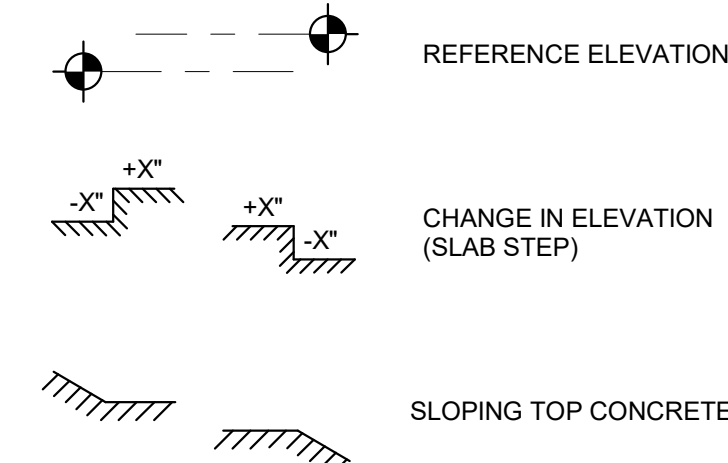


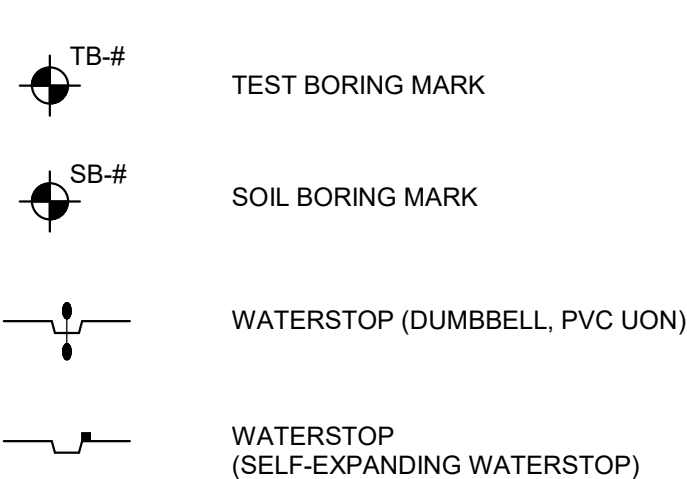
ABBREVIATIONS

ADD	ADDITIONAL
AP	AUGER CAST PILE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
	DRAWINGS AND SPECIFICATIONS
BF	BRACED FRAME
BOF	BOTTOM OF FOUNDATION
BOS	BOTTOM OF STEEL
BP	BEARING PLATE
BW	BRICK WALL
BRG	BEARING
CANT	CANTILEVERED
CB	CONCRETE BEAM
CFMF	COLD FORMED METAL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL OR CONSTRUCTION JOINT
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS OR CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
CFW	COLD FORMED METAL FRAMING WALL
CS	COMPOSITE SLAB
CW	CONCRETE WALL
DIA	DIAMETER
DIAG	DIAGONAL
DM	DIMENSIONS
DP	DRILLED PIER
DPB	DRILLED PIER WITH BELL
DPC	DRILLED PIER CAP
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FOUNDATION
FDN	FOUNDATION
FF	FINISH FLOOR
FS	SLAB ON FORMED DECK
FTG	FOOTING
GALV	GALVANIZED
GB	GRADE BEAM
HORIZ	HORIZONTAL
HP	STEEL H PILE
HP	HIGH POINT
INT	INTERIOR
JT	JOINT
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
	DRAWINGS AND SPECIFICATIONS
MIN	MINIMUM
MP	MASONRY PIER
MW	MASONRY WALL
NIC	NOT IN CONTRACT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW ROOF DRAIN
OH	OPPOSITE HAND
OPNG	OPENING
P	PIER
PC	PRECAST
PERIM	PERIMETER
PL	PLATE
PT	POST TENSIONED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RD	ROOF DECK
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
RTU	ROOF TOP UNIT
RW	RETAINING WALL
SB	SOIL BORING
SC	STEEL COLUMN
SEOR	STRUCTURAL ENGINEER OF RECORD
SF	STEP FOUNDATION
SIM	SIMILAR
SLBB	SHORT LEG BACK TO BACK
SOG	SLAB ON GRADE
SP	SPACING
SW	SHEAR WALL
TB	TEST BORING
TBR	TO BE REINFORCED
TOC	TOP OF CONCRETE
TOF	TOP OF FOUNDATION
TOS	TOP OF STEEL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
WF	WALL FOUNDATION
WW	WOOD WALL
WWF	WELDED WIRE FABRIC

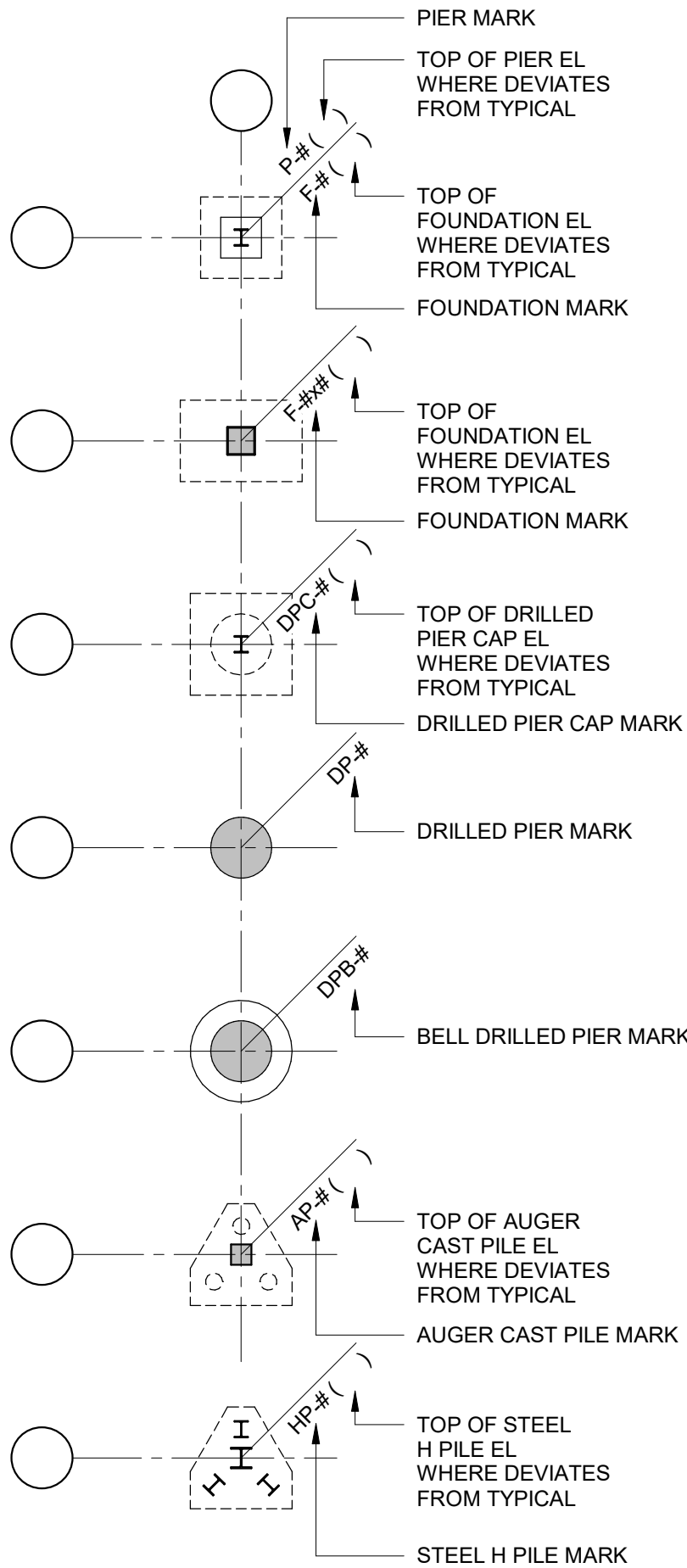
ELEVATION SYMBOLS



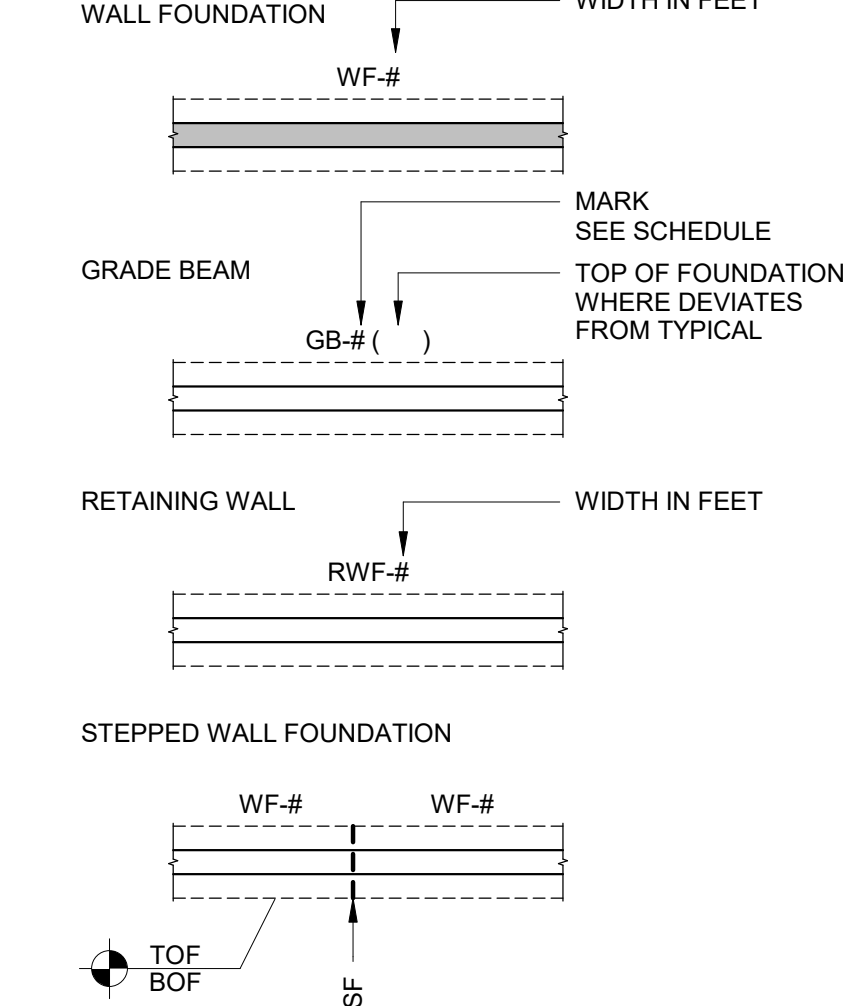
MISCELLANEOUS SYMBOLS



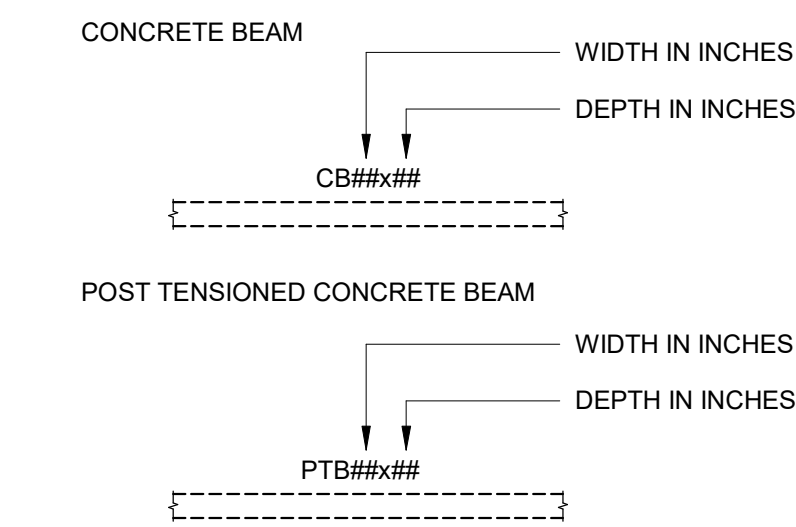
FOUNDATION DESIGNATIONS



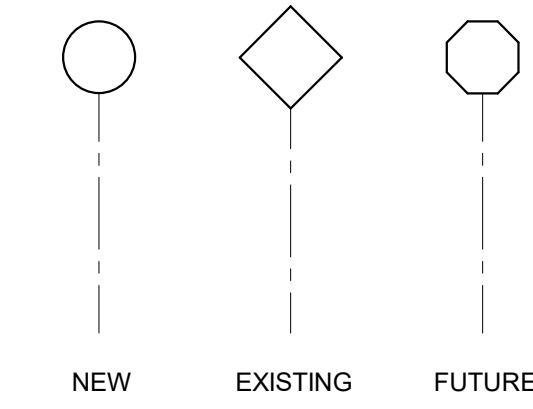
CONTINUOUS FOUNDATION DESIGNATIONS



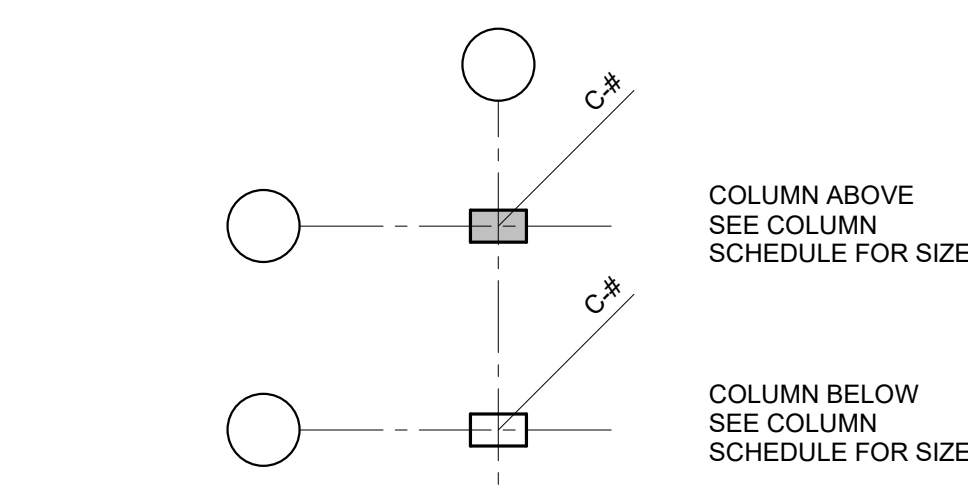
CONCRETE BEAM DESIGNATIONS



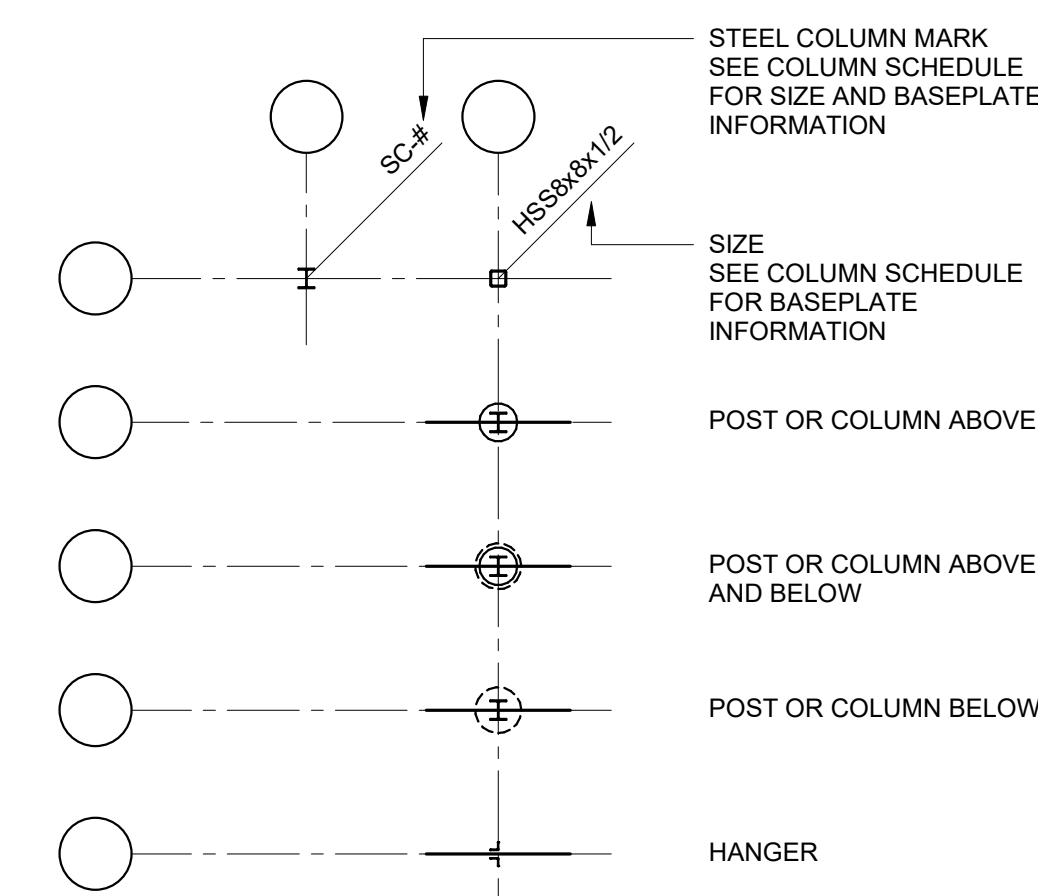
GRID DESIGNATIONS



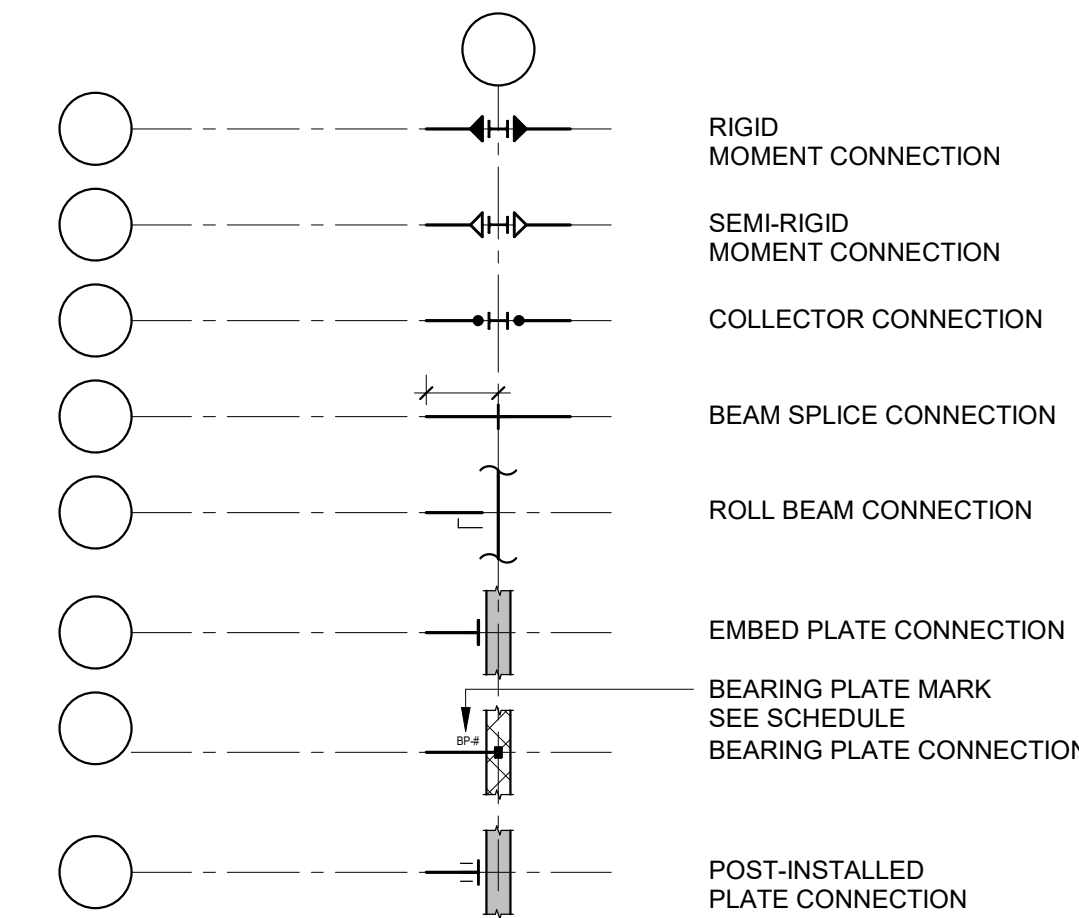
CONCRETE COLUMN DESIGNATIONS



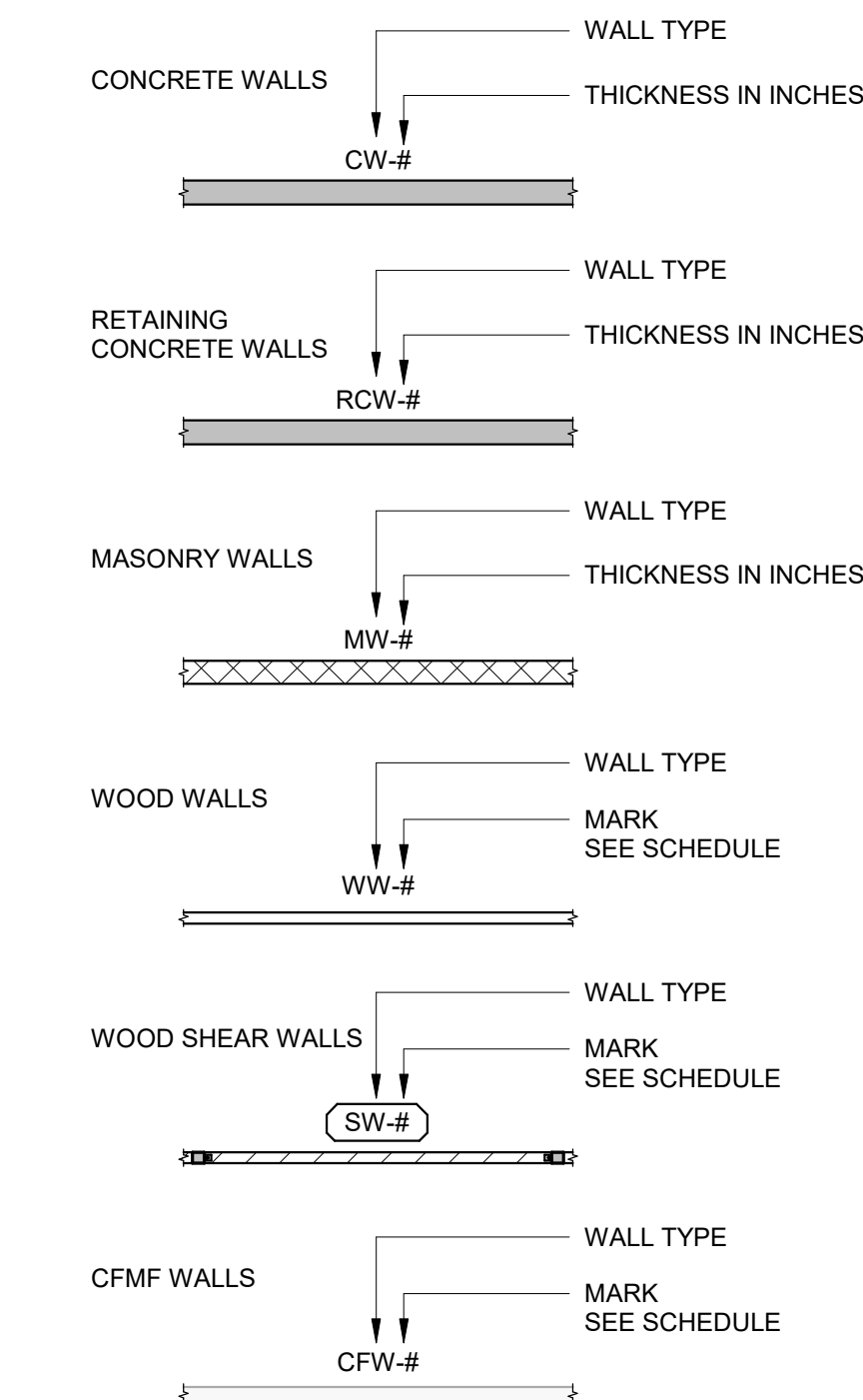
STEEL COLUMN PLAN SYMBOLS AND DESIGNATIONS



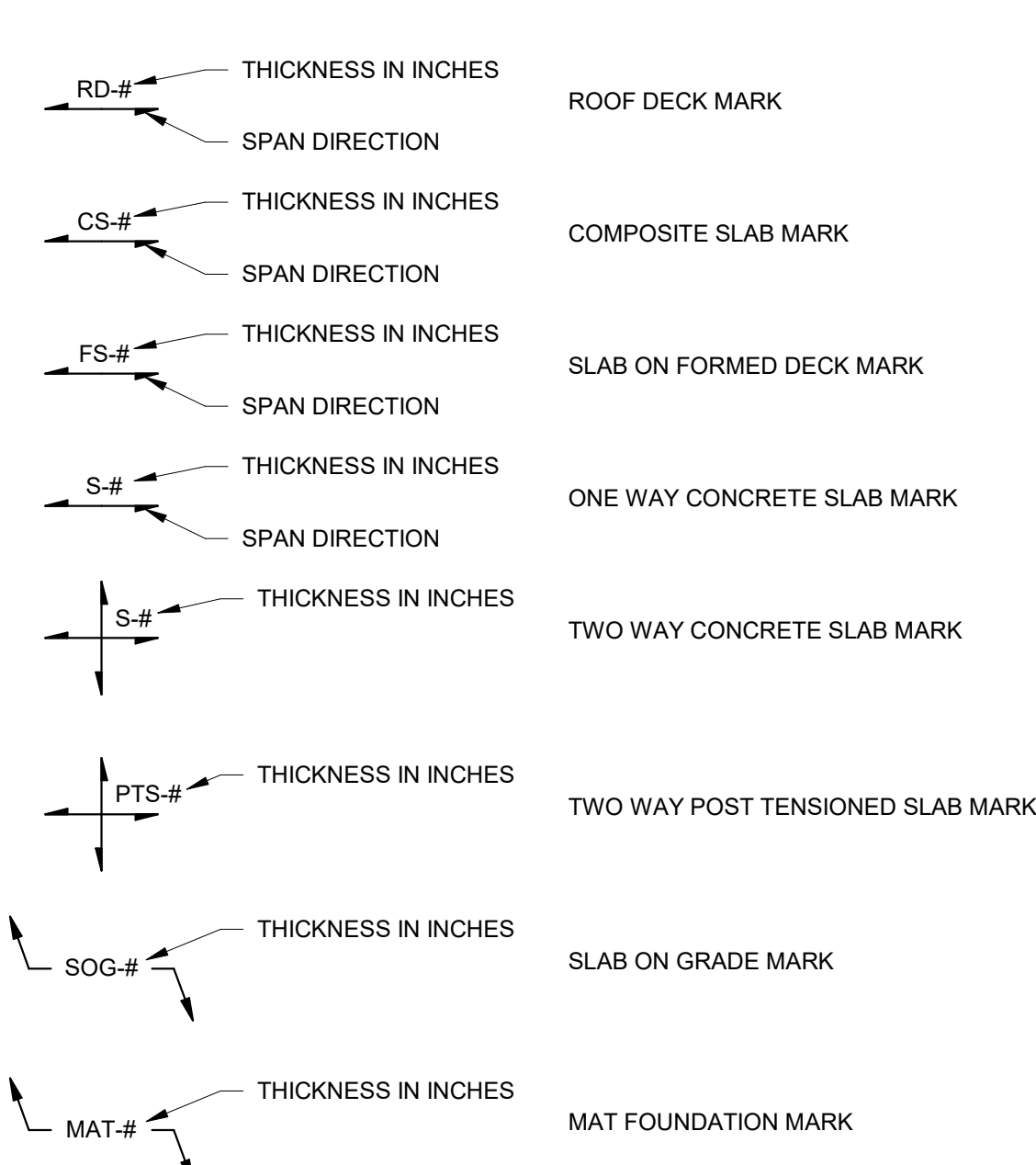
STEEL CONNECTION SYMBOLS AND DESIGNATIONS



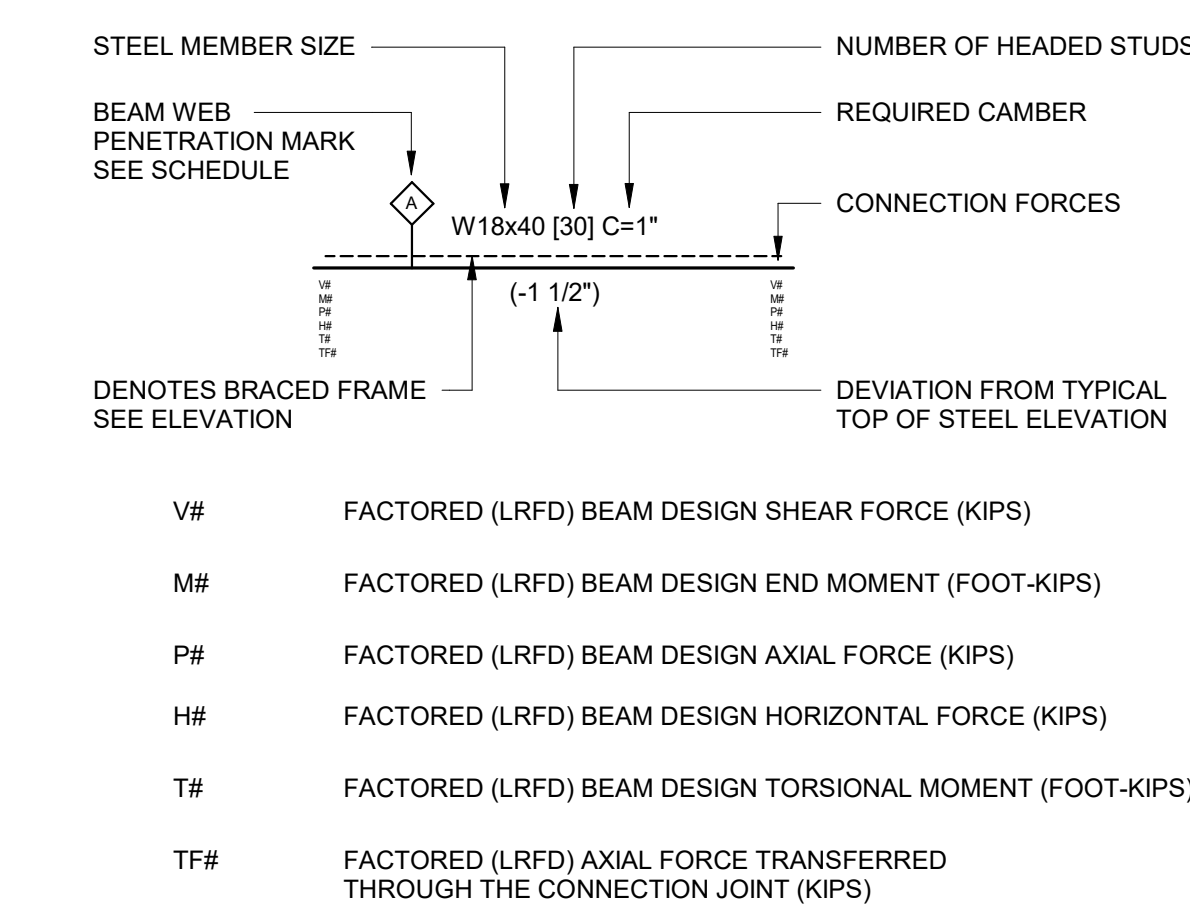
BEARING WALL DESIGNATIONS



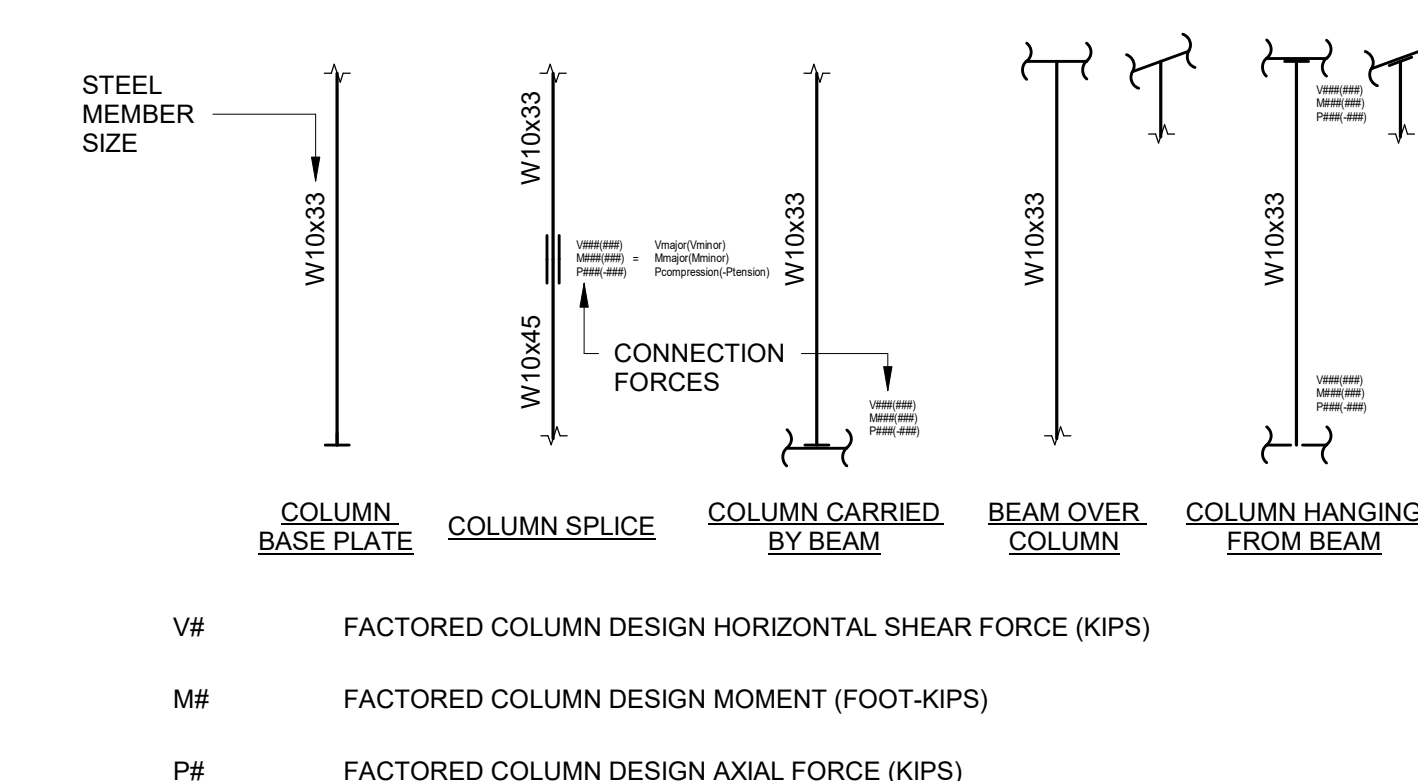
DECK AND SLAB SYMBOLS AND DESIGNATIONS



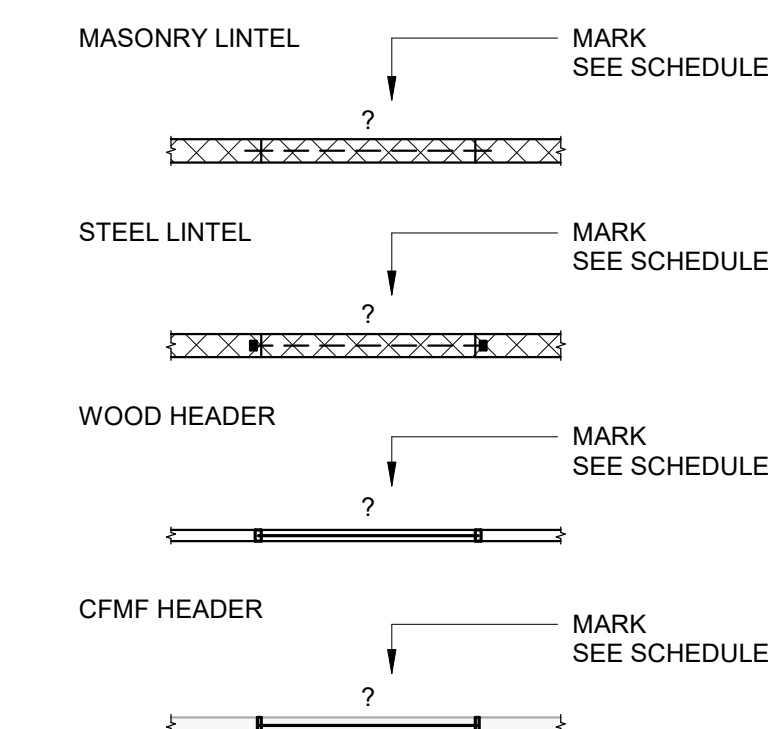
STEEL BEAM DESIGNATIONS



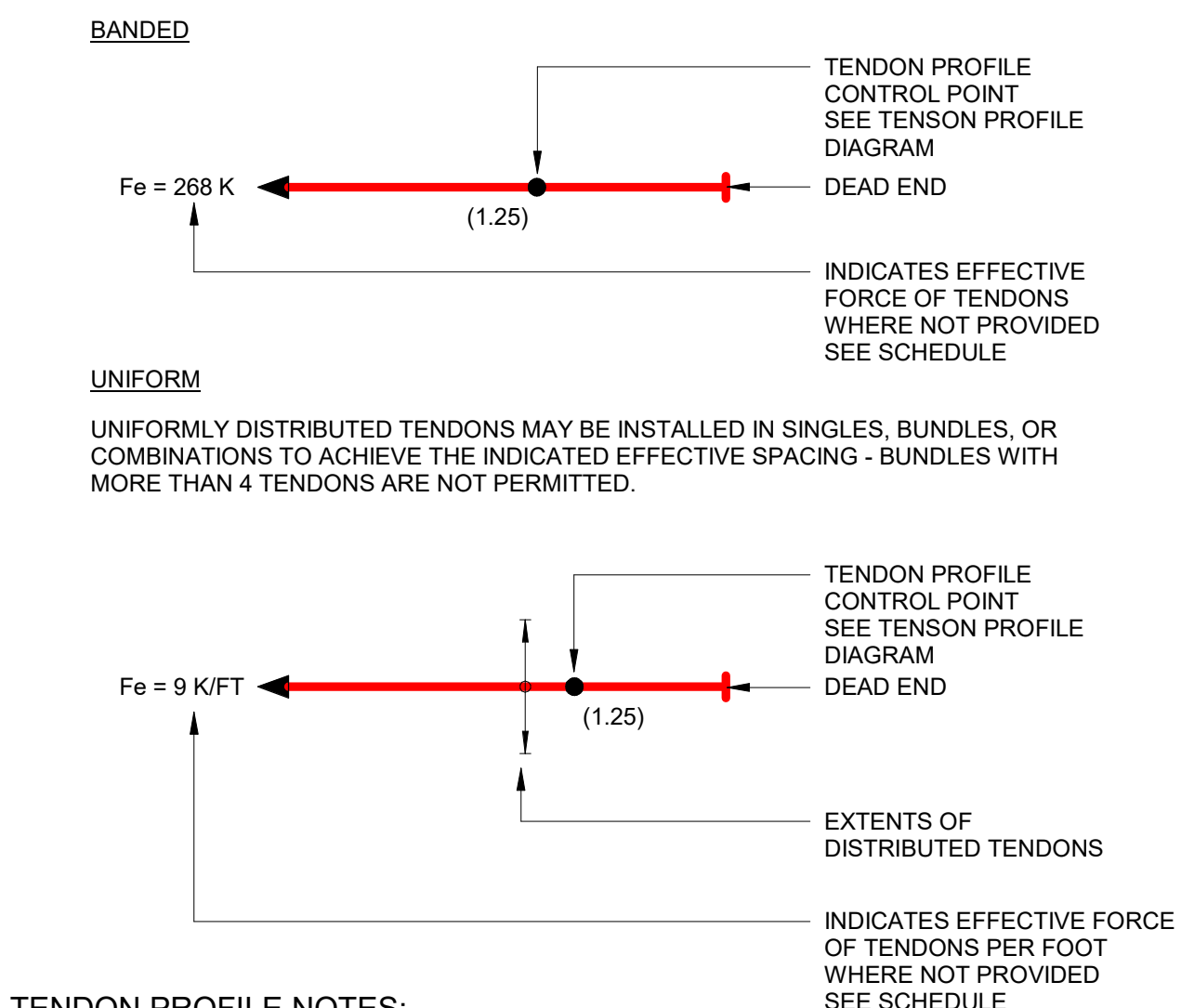
STEEL COLUMN SCHEDULE DESIGNATIONS



LINTEL AND HEADER DESIGNATIONS



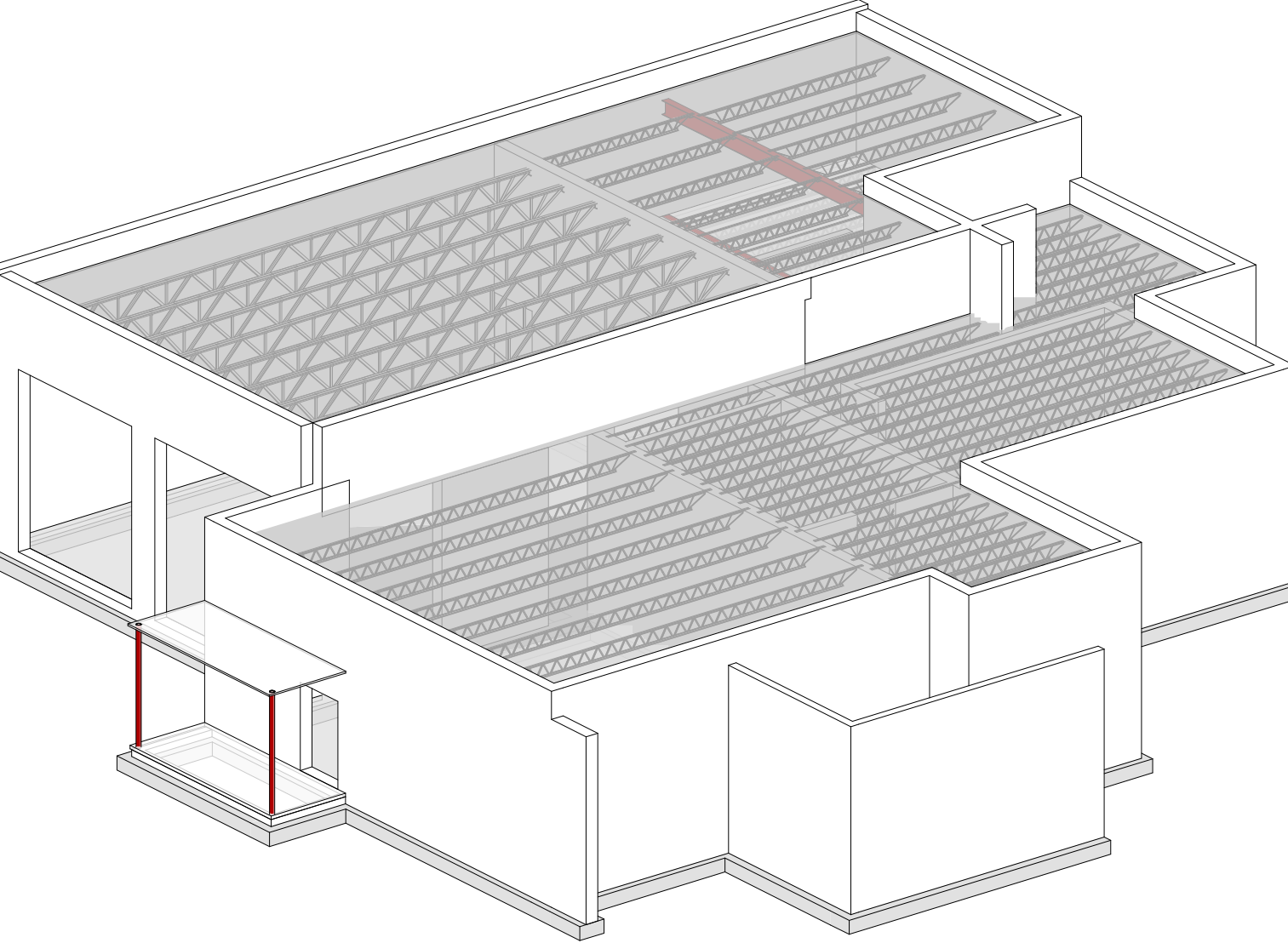
POST TENSIONING SYMBOLS AND DESIGNATIONS



- TENDON DRAPE SHALL BE PARABOLIC, TYP, UON
- TENDONS NOTED "HARPED" SHALL BE STRAIGHT BETWEEN CONTROL POINTS
- P.I. = POINT OF INFLECTION = TRANSITION BETWEEN DOWNWARD AND UPWARD PARABOLIC CURVES
- HIGH POINTS ARE CENTERED OVER SUPPORTS (COLUMNS, WALLS, BEAMS, OR BANDED TENDONS) TYP UON
- LOW POINTS ARE EQUIDISTANT BETWEEN SUPPORTS CENTER LINES TYP UON
- ALL TENDON CONTROL POINTS ARE MEASURED FROM BOTTOM OF JOIST, BEAM, OR BRIDGE, AS NOTED IN APPLICABLE ELEVATION

LEVEL	ELEVATION
FLOOR	100' - 0"
MEZZANINE PLAN	108' - 9"
SECOND FLOOR	112' - 8"
HIGH ROOF TOS	117' - 0"
TOP OF PARAPET	119' - 0"

SHEET #	SHEET TITLE
S.001	SYMBOLS AND DESIGNATIONS
S.002	GENERAL NOTES AND SPECIAL INSPECTIONS
S.101	EXISTING FOUNDATION PLAN
S.102	EXISTING MEZZANINE PLAN
S.103	EXISTING LOW ROOF FRAMING PLAN
S.104	EXISTING HIGH ROOF FRAMING PLAN
S.401	MASONRY DETAILS
A-1	BUILDING REPAIR NOTES & REFERENCE PHOTOS
EX.101	EXISTING DRAWINGS
EX.102	EXISTING DRAWINGS
EX.103	EXISTING DRAWINGS



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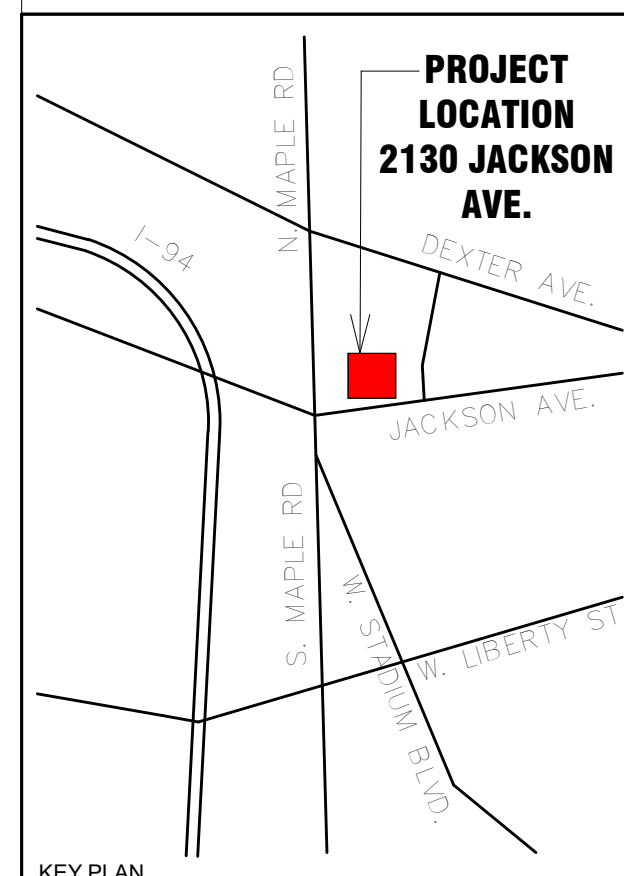
PHONE: (248) 454-6300

FAX (1st Floor): (248) 454-6312

FAX (2nd Floor): (248) 454-6359

WEB SITE: www.hrcenr.com

07/01/2026	OWNER REVIEW
06/09/2026	PROGRESS
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	JLY
DRAWN	CTM/MMD
CHECKED	JLY
APPROVED	JLY



PROJECT TITLE

CITY OF ANN ARBOR

FIRE STATION NO. 3

EMERGENCY REPAIR

SHEET TITLE

SYMBOLS AND

DESIGNATIONS

HRC JOB NO.

20260330

SCALE

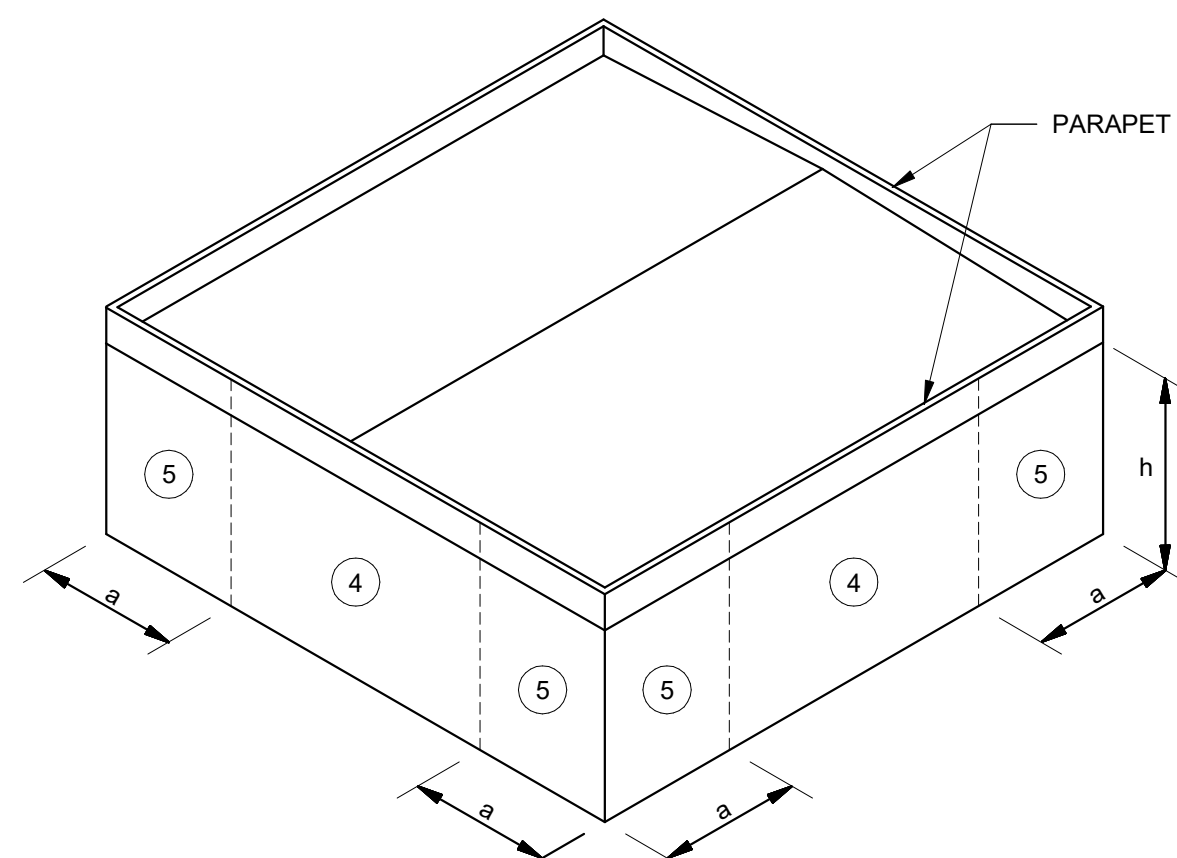
DATE

May 2026

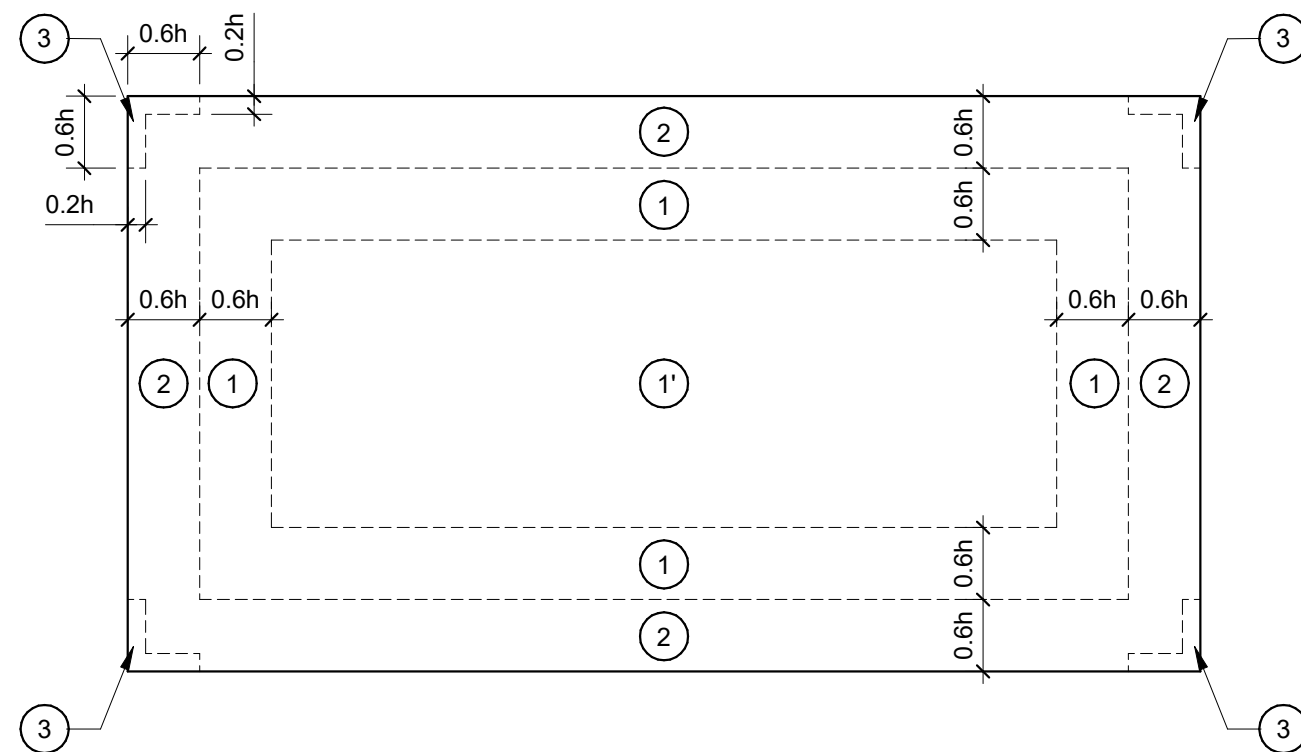
SHEET NO.

S.001

OF



WALL ZONES
FLAT ROOF



ROOF ZONES

FLAT/HIP/GABLE ROOF $\theta \leq 7^\circ$, $h \leq 60$ ft

SHORING AND BRACING

1. Contractor shall provide temporary shoring and bracing of existing construction, new construction and underground utilities as follows:
- A. Where shown or noted on the Drawings.
 - B. Where existing construction is to be altered or disturbed until permanent support is in place.
 - C. Where existing construction is not undergoing alteration and is to remain undisturbed but is disturbed as a result of the work of this contract.
 - D. As required for safe erection, installation of new construction, equipment, etc.
 - E. When needed for Contractor's "means and methods" of construction, and other safety related issues.
2. Shoring and bracing shown on the Drawings is conceptual. Contractor shall be responsible for verifying existing conditions, shoring and bracing calculations, methods of installation, transfer of loads through to final load support, and work sequencing during the new construction.
3. Shoring and bracing shall be performed by a Contractor with minimum 5 years demonstrated experience in similar size and scope of shoring and bracing projects.
4. Shoring and bracing shall be designed by a Professional Engineer registered in the State of the Project with minimum 5 years demonstrated experience in similar size and scope of shoring and bracing projects. Design loads and methods shall conform to applicable codes. Soil and material strengths shall be verified by tests, unless conservative estimates that do not affect deflections and deformations are approved by the Architect/Structural Engineer.
5. Contractor shall submit drawings and calculations sealed and signed by the Contractor's Professional Engineer showing complete design including temporary conditions, final conditions and sequence of work.
6. Before starting work, Contractor shall perform condition survey of the existing building structure, exterior facade and interior finishes, including photographic documentation and submit survey to the Owner for record.
7. During the shoring and bracing operations, Contractor shall:
- A. Keep the existing and new construction in a safe condition.
 - B. Monitor existing and new construction to detect any signs of distress or deformation.
 - C. Take immediate steps to prevent distress, deformation or damage.
8. Contractor shall continuously monitor the shoring and bracing system. Contractor shall review and ascertain that all field connections are completed according to the Contractor's design and issue approval for inspection of the work by the Testing Agency.
9. After completion of shoring and bracing and completion of work requiring shoring and bracing, Contractor shall repair any damage to the existing new construction, without any cost to the Owner, and to the satisfaction of the Owner and Architect/Structural Engineer.
1. Governing Design Code: 2021 Michigan Building Code with local jurisdiction amendments (hereafter referred to as "CODE")
2. All construction shall be in accordance with the following:
- A. CODE
 - B. Drawings and Specifications
3. The structural drawing notes are intended to work together and be complementary with the project specifications. Consult the specifications for additional requirements in each section. Information provided on structural drawings shall take precedence over the specifications. Information shown on specific details shall take precedence over typical details and structural notes.
4. Typical details and general notes shall apply, UON.
5. The structural drawings shall be used in conjunction with the architectural drawings. See architectural drawings for information not shown, including but not limited to the following:
- A. Setting out dimensions and angles of all grid lines
 - B. Setting out dimensions of concrete walls and wall openings that are not shown on the structural drawings.
 - C. Slab geometry that includes the following:
 - Edge of slab locations at building perimeter
 - Edge of slab locations at interior column openings
 - Location and geometry of slab depressions and slopes (depressions and slopes in structural slabs that are not shown diagrammatically on the structural drawings shall be reviewed by SEOR)
 - Concrete curb locations, height and width
 - D. Interior partitions are analyzed for the following:
 - Interior metal stud partitions (size, location and detailing)
 - Interior glazing walls (location and detailing)
 - Interior CMU partition (locations and openings)
 - E. Exterior non-bearing wall construction. This includes:
 - Exterior masonry studs (size, location, and detailing)
 - Curtain wall
 - Aluminum trellises (sizes and detailing)
 - F. Anchorage and bracing of building contents
 - G. Concrete chamfers, grooves, inserts, embedments, etc.
 - H. Architectural (non-structural) topping slabs – location and detailing
 - I. Concrete finish
 - J. Dimensions not shown on the structural drawings
 - K. All fireproofing requirements including fireproofing requirements for structural steel elements
 - L. Misc steel required for support of architectural elements
 - M. Waterproofing systems and details
6. See the mechanical, electrical and plumbing drawings for information not shown, including but not limited to:

REINFORCED HOLLOW CONCRETE MASONRY BLOCK

1. Masonry construction shall be in accordance with TMS 402 and TMS 602-16, referred to as CODE.
2. Compressive strength of grouted CMU construction 1"m shall be 2000 psi.
3. A. Mortar for masonry units shall conform to ASTM C280, masonry mortar, controlled block, normal weight classification, compression strength of block shall be 2000 psi to achieve 1"m of 2000 psi; 13% maximum absorption for exposed to weather units. Use open ended bond beam units where possible.
4. Compressive strength of the grout shall be 2000 psi. Maximum size of aggregate in grout shall be per CODE.
 - A. Reinforcement: ASTM A 615 GRADE 60.
5. Mortar shall conform to CODE proportional mix design procedure.
 - A. Mortar for concrete masonry shall be type M for all below grade units and type S at above grade units.
6. 1"m shall be justified by test results, compliant method.
7. In addition to prism testing, material testing shall be conducted on the block, grout, and mortar to check for compliance with minimum specified strength.
8. All cells with vertical reinforcement or as noted on drawings shall be grouted solid.
 - A. Horizontal bond beam and vertical reinforcement shall be continuous U.O.N.
9. B. Lap splice horizontal reinforcement per typical details or provide mechanical bar couplers, stagger splice locations.
10. Lay all units in running bond with mortared head joints.
11. A. Vertical control joint reinforcing shall be "ladder" type with #17 diameter longitudinal bars, galvanized. Provide 3/16 diameter eyelet bars at walls be brick veneer.
12. Provide minimum #5 vertical bars at 48" o.c. and horizontal joint reinforcing at 16" o.c. in load bearing walls unless indicated otherwise on drawings.
13. A. Walls shall be constructed with 16" o.c. vertical bars, corners, and all around door and window openings with (2) #5 bars, unless noted otherwise.
14. Provide minimum (1) #5 vertical bars additional at each side of openings or control joint UON.
15. Bond beam reinforcing shall be continuous unless noted otherwise.
16. Multiple course bond beam shall be grout at the same time.
15. Provide minimum lap and splice lengths per CODE.
16. Reinforcing shall be held in place with approved spacing system embedded in mortar joints.
17. Control joints in wall shall at a maximum spacing of 25' feet on center per detail provided on the drawings. See structural drawings for control joint locations. See architectural drawings for control joint locations in masonry veneer. Location of CMU (structural) and those in the veneer (architectural) may not be in the same location.
18. Joints and overcuts shall not be embedded in any masonry unless approved by architect and structural engineer.
19. Grouting of cores shall be in accordance with CODE.
20. GROUT lifts shall be keyed 1/2" in lower masonry course.
21. High lift grouting shall be in conformance with the CODE. Contractor shall submit a high lift grouting procedure for review and approval by the architect/engineer and Testing Lab.
22. GROUT solid all masonry below finish floor and/or finish grade.
 - A. The masonry units have reached the required strength, 1"m.
 - B. The floor slab below is completed.
24. Masonry walls are to be adequately braced during construction until floor and wall systems are complete. See "Standard Practice for Bracing Masonry Walls Under Construction" by the Council for Masonry Wall Bracing, and also NCMA TEK 3-4B "Bracing Concrete Masonry Walls During Construction" for recommended bracing details. Bracing must be designed and installed as designed by the contractor and sealed by a PE licensed in the state that has jurisdiction over the project.

REINFORCING STEEL

1. Steel reinforcement shall be as follows:
 - A. ASTM A151 grade 60 UON
 - B. ASTM A706 or 60 for bars to be welded, coupled and where noted on drawings.
2. Reinforcing bars shall be lap spliced per the lap splice schedule. Lap splices are to be securely tied at all side and end laps. Splice reinforcing where indicated on the drawings.
3. Mechanical splices, if used at contractor's option, shall be ICC approved and be capable of developing 125% of specified minimum yield strength of bar in tension or compression.
 - A. Welded wire fabric shall conform to ASTM A185.
 - B. Welded wire fabric shall be lap spliced "8" or one full mesh spacing plus 2", whichever is greater.
6. Welding of reinforcing steel shall be in accordance with AWS D1.4. Weld reinforcing bars only where noted on the drawings. Tack welding or welding of bars to plates, templates, etc, is prohibited, unless specifically shown on the drawings.
7. Submit rebar shop drawings in accordance with ACI 315 for review and acceptance by architect/engineer prior to fabrication. The shop drawings shall include:
 - A. Reinforcing size, lengths and bends.
 - B. Location, spacing and number of bars.
 - C. Methods and details of support to maintain specified cover.
 - D. Locations of construction joints.
 - E. Location and length of all splices.
8. Contractor shall investigate and coordinate reinforcing steel placement in congested areas and provide templates, reinforcing bar coupling, or bar welding where necessary to maintain bar placement.
9. Bars shall not be bent or twisted in the field, unless specifically detailed on the structural drawings.
10. Securely tie all reinforcing in-place with iron wire. Support all reinforcing in place with acceptable chairs.
 1. The drawings indicate the structure in its final condition. The contractor is fully responsible for all temporary measures necessary for erection prior to the structure's final condition.
 2. The contractor is responsible for means and methods, scheduling, sequencing of construction or compliance with OSHA provisions.
 3. The contractor shall coordinate with other trades in determining the erection sequence so that the erection sequence and associated site conditions will not adversely impact or damage work by other trades or previously erected structure.
 4. Deflection and movement of structure
 - A. Floor beams, trusses, transfer girders, and cantilevers will continue to deflect as additional loads are applied during construction. Although camber may be shown to account for the theoretical dead load deflection, this may not occur until all dead load is on the member.
 - B. The contractor shall coordinate the attachment of any items to the structure so that typical lateral movements of adjacent floors in any direction are accommodated by the attachments. The lateral movement of adjacent floors is 1/800 the floor height.

GENERAL NOTES

1. Governing Design Code: 2021 Michigan Building Code with local jurisdiction amendments (hereafter referred to as "CODE")
 2. All construction shall be in accordance with the following:
 - A. CODE
 - B. Drawings and Specifications
 3. The structural drawing notes are intended to work together and be complementary with the project specifications. Consult the specifications for additional requirements in each section. Information provided on structural drawings shall take precedence over the specifications. Information shown on specific details shall take precedence over typical details and structural notes.
 4. Typical details and general notes shall apply, UON.
 5. The structural drawings shall be used in conjunction with the architectural drawings. See architectural drawings for information not shown, including but not limited to the following:
 - A. Setting out dimensions and angles of all grid lines
 - B. Setting out dimensions of concrete walls and wall openings that are not shown on the structural drawings.
 - C. Slab geometry that includes the following:
 - Edge of slab locations at building perimeter
 - Edge of slab location at interior openings
 - Location and geometry of slab depressions and slopes (depressions and slopes in structural slabs that are not shown diagrammatically on the structural drawings shall be reviewed by SEOR)
 - Concrete curb locations, height and width
 - D. Interior partitions and ceilings (size, location, and detailing)
 - Interior metal stud partitions (size, location and detailing)
 - Interior glazed walls (locations and detailing)
 - Interior CMU partition (locations and openings)
 - E. Exterior non-bearing wall construction. This includes:
 - Exterior metal stud (size, location, and detailing)
 - Curtain wall and lower details
 - Aluminum trellises (sizes and detailing)
 - F. Anchorage and bracing of building contents
 - G. Concrete chamfers, grooves, inserts, embedments, etc.
 - H. Architectural (non-structural) topping slabs – location and detailing
 - I. Dimensions not shown on the structural drawings
 - K. All fireproofing requirements including fireproofing requirements for structural steel elements
 - L. Misc steel required for support of architectural elements
 - M. Waterproofing system and details
 6. See the mechanical, electrical and plumbing drawings for information not shown, including but not limited to:
 - A. Wall and slab openings for services, pipe sleeves, hangers, trenches, except as shown
 - B. Electrical conduit runs, boxes, outlets in walls and slabs
 - C. Concrete inserts for electrical, mechanical, or plumbing
 - D. Size and location of equipment pads and equipment anchor bolts (typical concrete pad detail are provided on the Structural Drawings)
 - E. Locations for panel penetrations for pipes and ducts, except as shown (typical steel penetrations are provided on the Structural Drawings)
 7. Contractor is responsible for the coordination of all equipment pad sizes and locations with the actual layout provided in the shop drawings.
 8. Drawing scales noted on structural drawings are for reference only. Do NOT scale drawings. The contractor shall verify dimensions not provided with the architect prior to proceeding with work.
- ### SPECIAL INSPECTIONS
1. Special inspections shall be provided by the Owner's Testing Lab in accordance to the code and the project specifications. The special inspector shall observe the work for conformance with the construction documents. The special inspector shall be responsible for coordinating with the architect, engineer, contractor and Owner. All discrepancies shall be brought to the attention of the contractor for correction. When work is done to the satisfaction of the inspector, then the special inspector shall submit a final signed report stating that, to the best of their knowledge, the work was in conformance with the drawings, specifications, and the applicable workmanship provisions of the CODE.
 2. Refer to Special Inspection tables and notes for specific requirements.

SHOP DRAWINGS

1. Verify all existing dimension before submitting shop drawings for review.
2. Review all shop drawings for accuracy and compliance with shop drawing before submitting. Review of shop drawings does not relieve the Contractor of any responsibility for omissions or errors in submissions.
3. Use of 2D Drawing or 3D REVIT model does not relieve the Contractor of any responsibility specified in the contract documents.
4. Allow a minimum of 10 working days for review by Structural Engineer of submitted drawings. The Structural Engineer will review drawings in reasonable quantities with at least 10 working days between submittals. Review time stated is for Structural Engineer only, add additional time to schedule as required for review by other disciplines.
5. Contractor shall coordinate and resolve multiple trades before submitting shop drawings. Dimensions and elevations specified to equipment installation shall be provided and coordinated prior to submittal for review. Failure to provide these dimensions shall result in return of shop drawings without review.
6. Structural Engineer is not responsible for coordination of work marked as "by others" on shop drawings.

ERECTION

1. The drawings indicate the structure in its final condition. The contractor is fully responsible for all temporary measures necessary for erection prior to the structure's final condition.
2. The contractor is responsible for means and methods, scheduling, sequencing of construction or compliance with OSHA provisions.
3. The contractor shall coordinate with other trades in determining the erection sequence so that the erection sequence and associated site conditions will not adversely impact or damage work by other trades or previously erected structure.
4. Deflection and movement of structure
 - A. Floor beams, trusses, transfer girders, and cantilevers will continue to deflect as additional loads are applied during construction. Although cantilever beams will show deflection due to their theoretical dead load deflection, this may not occur until all dead load is on the member.
 - B. The contractor shall coordinate the attachment of any items to the structure so that typical lateral movements of adjacent floors in any direction are accounted for in the design. The lateral movement of adjacent floors is 1/180 the floor height.

DESIGN CRITERIA

Design is in accordance with CODE		CODE REFERENCE
Risk Category	IV	IBC Table 1604.5 ASCE Table 1.3-1
LIVE LOADS		CODE REFERENCE
OFFICES	50 PSF	ASCE Table 4.3-1
ROOF	20 PSF	ASCE Table 4.3-1
PARTITIONS	15 PSF	ASCE Table 4.3-1
SNOW LOADS		CODE REFERENCE
Ground Snow Load	P _g = 20 PSF	ASCE Figure 7-1
Flat Roof Snow Load	P _f = 24 PSF (MINIMUM)	ASCE Section 7.3
Exposure Factor	C = 1.0	ASCE Table 7-2
Importance Factor	I = 1.0	ASCE Table 1.5-2
Thermal Factor	Δt = 1.0	ASCE Table 7-3

Snow loads adjacent to vertical projections, on lower roofs adjacent to high roofs or sloped roofs are increased for the effects of snow drift.

WIND LOADS		CODE REFERENCE
Ultimate Design Win...	V(ULTIMATE) = 119 MPH	ASCE Figure 26.5-1B
Nominal Design Wind Speed	V(ASD) = 93 MPH	IBC Section 1609.3.1
Exposure Category	B	ASCE Section 26.7.2
Internal Pressure Coefficient	± 0.18 (Enclosed)	ASCE Table 26.13-1

COMPONENTS AND CLADDING ROOF

θ ≤ 7° (FLAT ROOF)	Zone 1	Zone 1'	Zone 2	Zone 3	CODE REFERENCE
A = 500 SF	-23/16 PSF	-16/16 PSF	-30/16 PSF	-30/16 PSF	ASCE Fig 30.3-2A
A = 100 SF	-28/16 PSF	-21/16 PSF	-37/16 PSF	-44/16 PSF	ASCE Fig 30.3-2A
A = 50 SF	-31/16 PSF	-21/16 PSF	-40/16 PSF	-50/16 PSF	ASCE Fig 30.3-2A
A = 10 SF	-36/16 PSF	-21/16 PSF	-47/16 PSF	-64/16 PSF	ASCE Fig 30.3-2A
Overhang (A ≤ 10 SF)	-33 PSF	-33 PSF	-44 PSF	-61 PSF	ASCE Fig 30.3-2A

COMPONENTS AND CLADDING WALLS

	Zone 4	Zone 5	CODE REFERENCE
A = 500 SF	-25/23 PSF	-25/23 PSF	ASCE Fig 30.3-1
A = 100 SF	-28/26 PSF	-31/26 PSF	ASCE Fig 30.3-1
A = 50 SF	-30/27 PSF	-34/27 PSF	ASCE Fig 30.3-1
A = 10 SF	-33/30 PSF	-40/30 PSF	ASCE Fig 30.3-1
Parapet (A ≤ 10 SF)	-37/63 PSF	-43/63 PSF	ASCE Sec 30.6.1.2

SEISMIC LOADS

SEISMIC LOADS		CODE REFERENCE
Seismic Importance Factor	$I_e = 1.5$	ASCE Table 1.5-2
Short Period Spectral Response Acceleration	$S_s = 0.10 \text{ g}$	ASCE Section 11.4.1
1.0 sec. Period Spectral Response Acceleration	$S_1 = 0.05 \text{ g}$	ASCE Section 11.4.1
Site Class	D (Default)	ASCE Section 11.4.2
Design Short Spectral Response Acceleration	$SDS = 0.111 \text{ g}$	ASCE Section 11.4.4
Design Short Period Spectral Response Acceleration	$SD_1 = 0.077 \text{ g}$	ASCE Section 11.4.4
Seismic Design Category	C	ASCE Section 11.6
Response Modification Factor	$R = 2.0$	ASCE Table 12.2-1
Seismic Force Resisting System	Ordinary reinforced masonry shear walls	ASCE Table 12.2-1
Seismic Response Coefficient	$C_s = 0.083$	ASCE Section 12.8.1.1
Design Base Shear	$V = 0.083W$	ASCE Section 12.8
Analysis Procedure	Equivalent Lateral Force	ASCE Section 12.8
Building design displacements	Seismic Inelastic Story Drift (Δ_{in}) = 2.0%	

EXISTING CONSTRUCTION

1. Before submitting a proposal for work, and/or preparing shop drawings for this work each Bidder, Contractor and Sub-Contractor shall visit the site and become familiar with the existing conditions, temporary construction required, type of equipment required to perform the work.
2. Field verify all existing dimensions, conditions, members sizes and elevations with the information provided on the drawings. Information shown on drawings is not intended to be a limited field observations and shall be verified drawings which may not reflect actual conditions. Discrepancies to be noted and immediately brought to the attention of the Structural Engineer.
3. Provide temporary shoring and bracing as required before, during and after construction as required until all materials have reached the required strength and stability.
4. Existing construction not undergoing alteration is to remain undisturbed. Where such construction is disturbed as a result of the operations of this contract, Contractor shall repair or replace as required and to the satisfaction of the Architect/Engineer.
5. Verify the existence, location and elevation of existing utilities, sewers, drains, etc. in demolition areas and adjacent to new work before proceeding with the work. All discrepancies shall be documented and reported, do not proceed until work is approved.
6. Provide fire safety precautions during field cutting and welding operations, meeting the Owner's requirements.
7. Provide temporary protection of existing field equipment during execution of work, satisfying the Owner's requirements.
8. Provide temporary protection to prevent damage from the weather and vandalism.
9. Coordinate work with the Owner's personnel to avoid any interference in their work.
10. Refer to "SHORING AND BRACING" notes for additional requirements.



LOGO



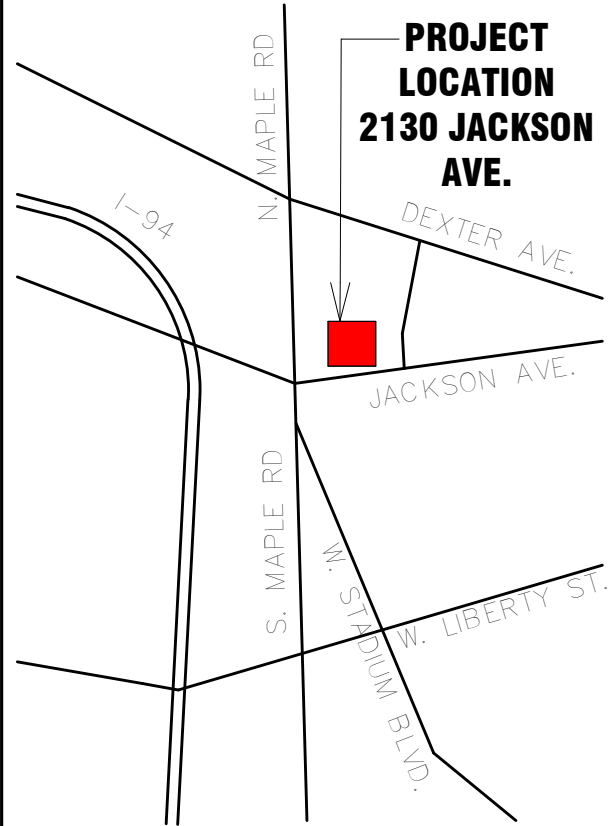
HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

**555 HULET DRIVE
BLOOMFIELD HILLS, MICH.**

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07/01/2026	OWNER REVIEW
06/09/2026	PROGRESS
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	JLY
DRAWN	CTM/MD
CHECKED	JLY
APPROVED	JLY



KEY PLAN

PROJECT TITLE

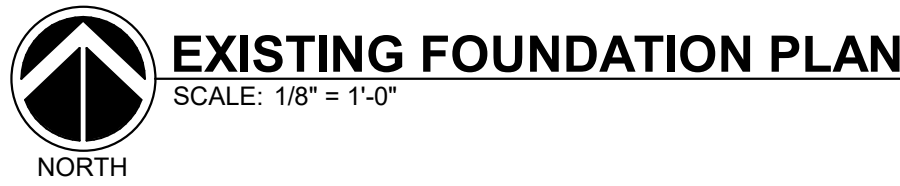
CITY OF ANN ARBOR

FIRE STATION NO. 3 EMERGENCY REPAIR

SHEET TITLE

GENERAL NOTES AND SPECIAL INSPECTIONS

HRC JOB NO. 20260330	SCALE
DATE May 2026	SHEET NO. S.002 OF



NOTE:
CJ: DENOTES NEW THROUGH WALL CONTROL JOINT SEE DETAIL E4/S.401

FOUNDATION/SLAB ON GRADE NOTES:

1. COMPLETE EXISTING BUILDING DRAWINGS CANNOT BE LOCATED. ALL DIMENSIONS MUST BE VERIFIED IN FIELD. SEE SHEETS EX.101, EX.102, AND EX.103 FOR REFERENCE ONLY.
2. REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
S.002 FOR GENERAL NOTES
S.401 FOR MASONRY DETAILS
3. DIMENSIONS INDICATED (VIF) SHALL BE VERIFIED IN FIELD.

MAINTENANCE OF MASONRY NOTES

PRODUCTS

MORTAR MATERIALS

- A. Lime: ASTM C207, Type S or SA
- B. Aggregate for Mortar: ASTM C 144 match sand color to that in existing interior mortar joints.
- C. Portland Cement: ASTM C 150, Type I or II, except Type III may be used for cold weather construction. Provide natural or white color cement as required to produce mortar color indicated.
- D. Hydrated Lime: ASTM C 207, Type S.
- E. Water: Potable
- F. Colored Mortar Pigments: Natural and synthetic iron oxides per ASTM C 979, compounded for use in mortar mixes. Use only pigments with record of satisfactory performance in masonry mortars.
 - 1. Color: Match existing
- 2. Products: Subject to compliance with requirements, provide one of the following:
 - a. Davis Colors, Subsidiary of Rockwood Industries, Inc.; True Tone Mortar Colors.
 - b. Holcim (US), Inc.; Rainbow Mortarmix Custom Color.
 - c. Solomon Colors, Inc.; SGS Mortar Colors.

MORTAR MIX

- A. General: Do not add admixtures including coloring pigments, air-entraining agents, accelerating or retarding agents, anti-freeze compounds, or others, unless otherwise specified.
1. Do not use calcium chloride in mortar or grout.
- B. Match existing mortar color.
- C. Colored Pigments (Mortar): Select and proportion pigments with other ingredients to produce color required.
1. Pigment shall not exceed 5 percent, by weight, of the total cement content.
- D. Text existing mortar for strength per ASTM C1072 using Test Method for Mortar removed from existing Masonry. Match new pointing to existing strength of the existing mortar. Match new pointing to existing strength of the existing mortar. Match new pointing to existing strength of the existing mortar. Final decision is to be made based on the tested bond strength.
1. Mortar for Unit Masonry: ASTM C 270, Properly Specification (Except where soft lime mortar is required); Type O
2. Soft Lime Mortar: Type "L" consisting of 0 part Cement: 1 part lime:2-1/4 to 3 parts sand

MASONRY MATERIALS

- A. Match existing masonry

EXECUTION

- EXAMINATION**
- A. Verify that surfaces to be cleaned and restored are ready for work of this section

PREPARATION

- A. Protect surrounding elements from damage due to restoration procedures.
- B. Carefully remove and store removable items located in areas to be restored, including fixtures, fittings, finish hardware, and accessories; reinstall upon completion.
- C. Separate areas to be protected from restoration areas using means adequate to prevent damage.
- D. Cover existing landscaping with tarpaulins or similar covers.
- E. Mask immediately adjacent surfaces with material that will withstand cleaning and restoration procedures.
- F. Close off adjacent occupied areas with dust proof and weatherproof partitions.
- G. Protect roof membrane and flashings from damage with 1/2 inch plywood laid on roof surfaces over full extent of work area and traffic route.
- H. When using cleaning methods that involve water or other liquids, install drainage devices to prevent runoff over adjacent surfaces unless those surfaces are impervious to damage from runoff.
- I. Do not allow cleaning runoff to drain into sanitary or storm sewers.

REBUILDING

- A. Cut out damaged and deteriorated masonry with care in a manner to prevent damage to any adjacent remaining materials.
- B. Support structure as necessary in advance of cutting out units.
- C. Cut away loose or unsound adjoining masonry to provide firm and solid bearing for new work.
- D. Build in new units following procedures for new work specified in other section(s).
- E. Mortar Mix: Mix mortar with sand that matches cleaned mortar.
- F. Install build in masonry work to match and align with existing, with joints and coursing true and level, faces plumb and in line. Build in all openings, accessories and fittings.

REPORTING

- A. Perform reporting prior to cleaning masonry surfaces.
- B. Cut out loose or disintegrated mortar in joints to minimum 1/2 inch depth or until mortar is exposed and mortar is equal to mortar square corners at the back of the cut.
- C. Use power tools only after test cuts determine no damage to masonry units will result. Hand tools are preferred.
- D. Do not damage masonry units.
- E. When cleaning, use compressed air to remove dust and loose material with water jet.
- F. Premoisten joint with a continuous mist of potable water for 2 to 3 hours prior to reporting. Joints should be moist with no standing water, and apply mortar. Pack tightly in maximum 1/4 inch layers. Do not apply successive layers until preceding layer is thumbprint hard. Form a smooth, compact concave joint to the exterior. If joint is not straight, use a trowel to straighten and recess the final fill of mortar slightly from the face of the masonry, to prevent a featheredge from forming.
- G. After trowel, remove excess mortar from edge of joint by brushing with a nylon brush or nylon bristle cloth. Do not remove mortar with wire brushes.
- H. Moist cure for 72 hours using wet burlap. If plastic is used ensure that plastic is not in contact with wall and is of a color to protect mortar from direct sunlight.



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DATE	ADDITIONS AND/OR REVISIONS
DRAWN JULY	
CHECKED CTM/MD	
JULY	
APPROVED JULY	



PROJECT TITLE

CITY OF ANN ARBOR

**FIRE STATION NO. 3
EMERGENCY REPAIR**

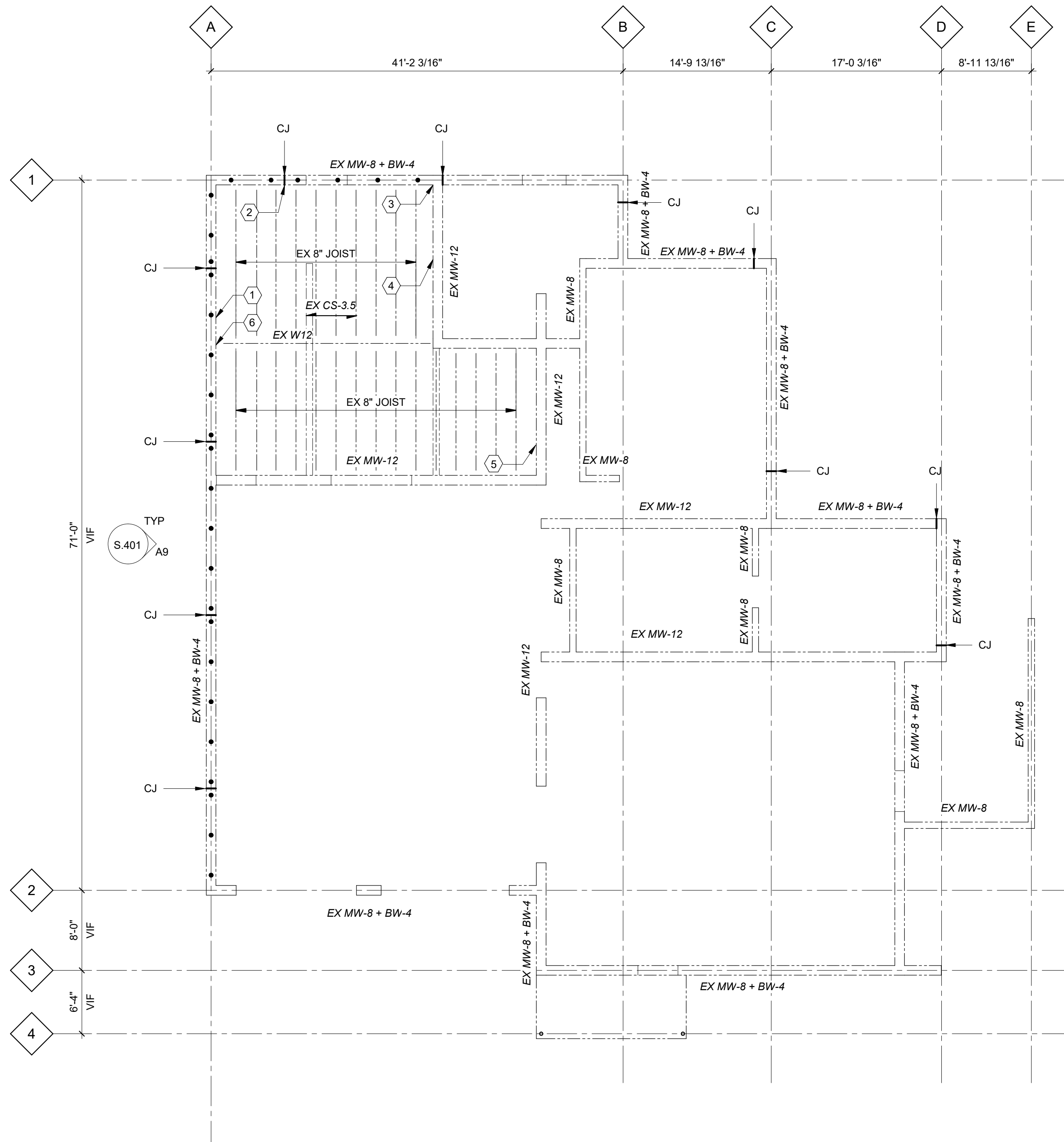
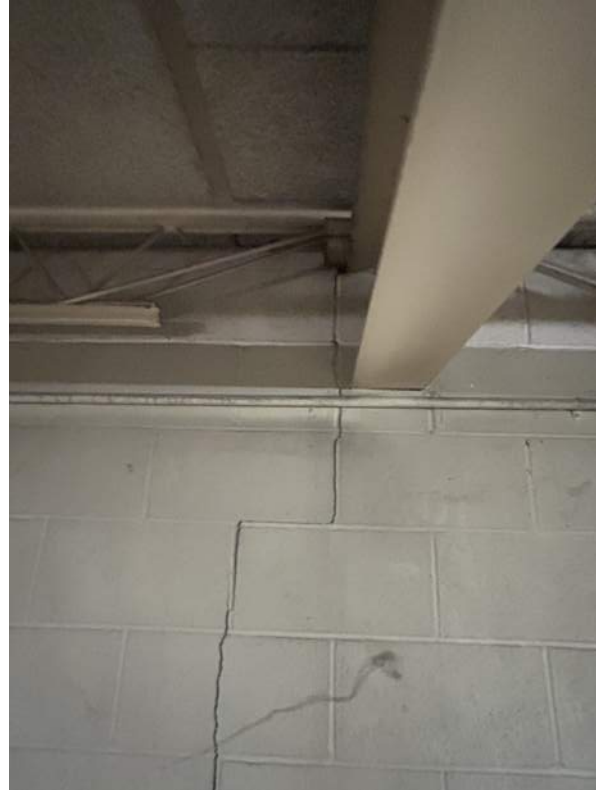
SHEET TITLE

**EXISTING
FOUNDATION
PLAN**

HRC JOB NO. 20260330	SCALE
DATE May 2026	SHEET NO. S.101 OF

A close-up photograph of a wall-mounted air conditioning unit. The unit is dark-colored with a large circular fan grille. A power cord runs vertically along the wall, secured by a metal pipe or conduit. The wall is made of light-colored, rectangular tiles. A small, white, rectangular electrical component is mounted on the wall near the power cord.

6 RANGE VERT/STEPPED CRACK. RAKE AND REPOINT. REPLACE CRACKED FACE SHELLS. GROUT CELLS AT THIS LOCATION



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

4. DIMENSIONS INDICATED (VIF) SHALL BE VERIFIED IN FIELD

07/01/2026	OWNER REVIEW
06/09/2026	PROGRESS
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	JLY
BRAWN	CTM/MD
CHECKED	JLY
APPROVED	JLY



PROJECT TITLE

CITY OF ANN ARBOR

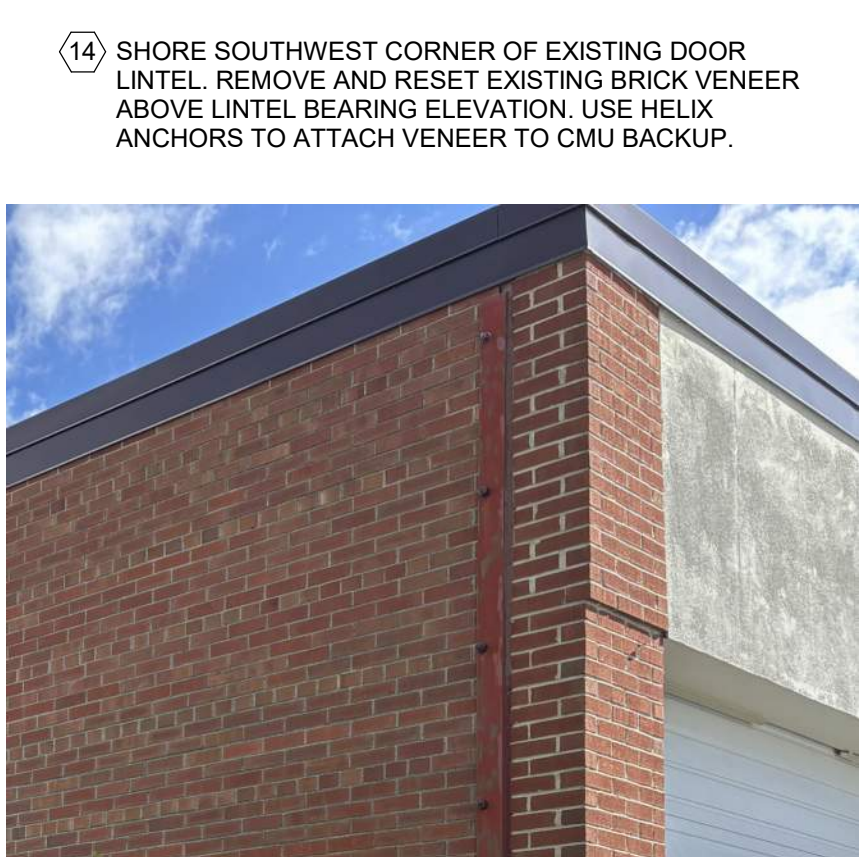
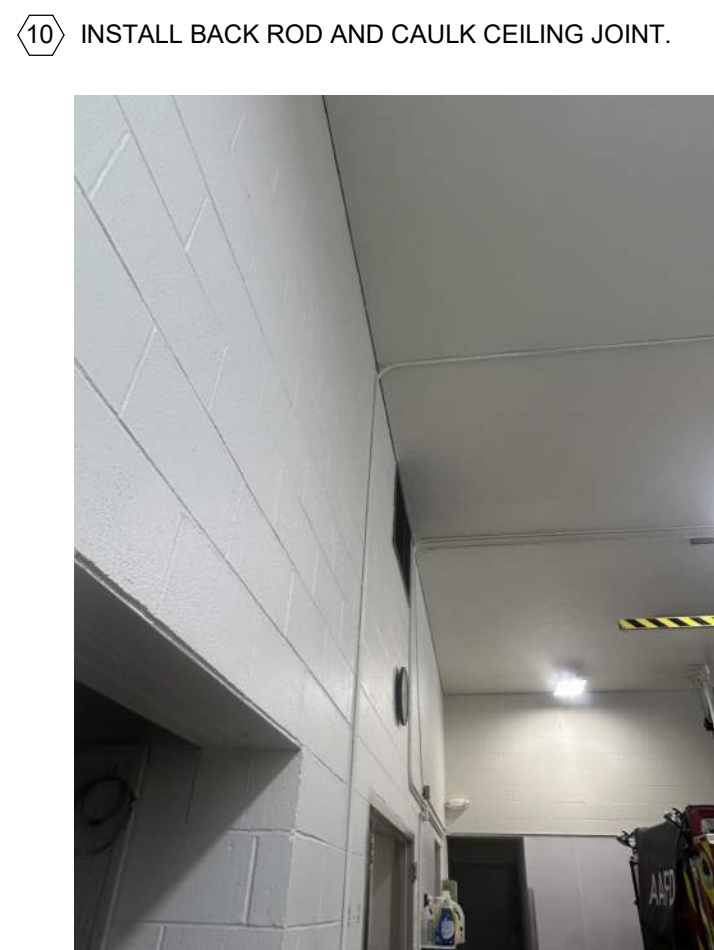
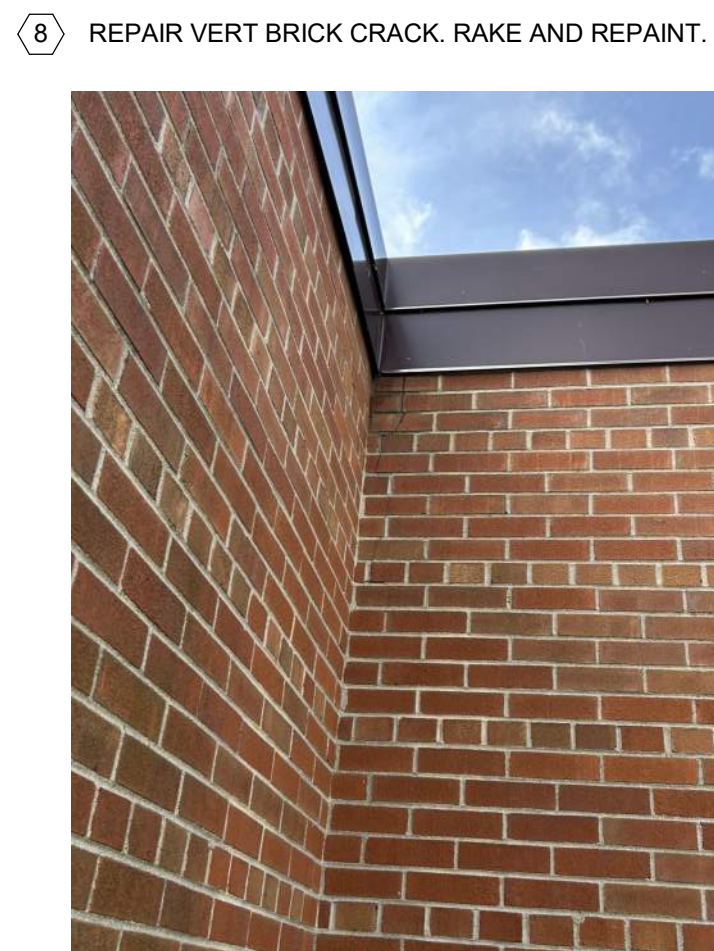
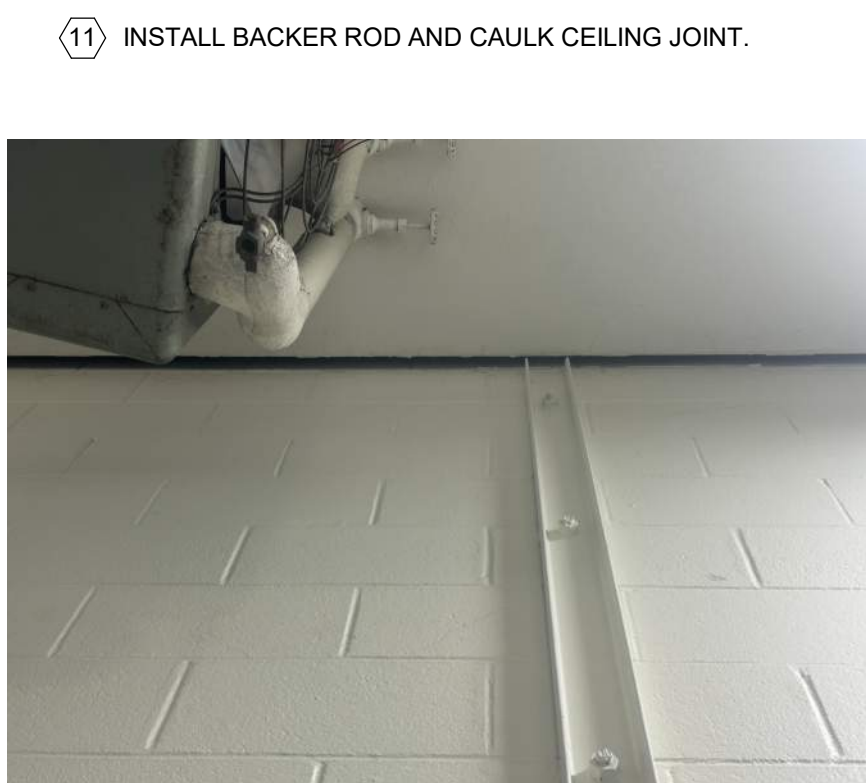
FIRE STATION NO. 3 EMERGENCY REPAIR

SHEET TITLE

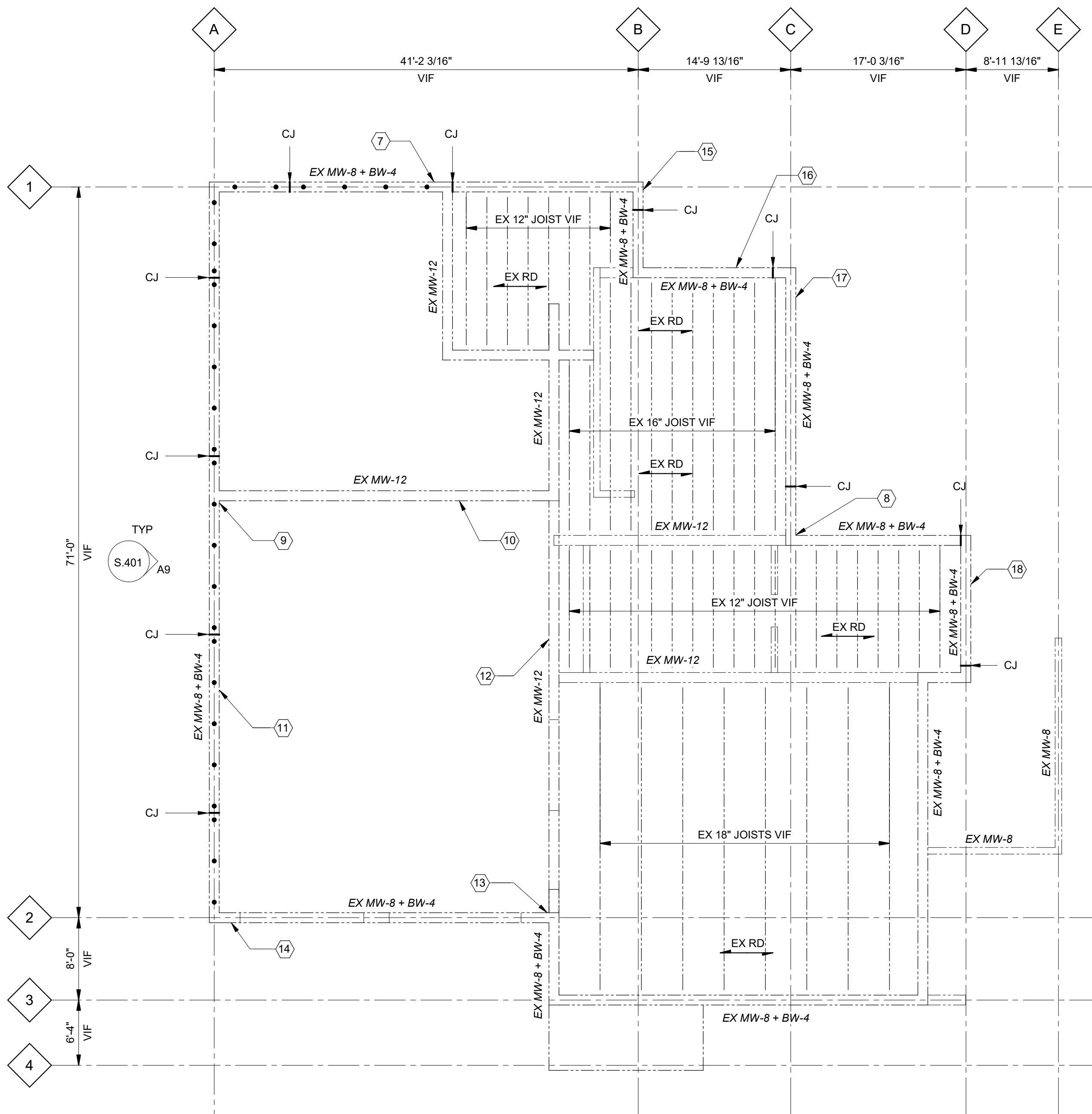
**EXISTING
MEZZANINE
PLAN**

HRC JOB NO. 20260330	SCALE
DATE May 2026	SHEET NO. S.102 OF

REPAIR KEYNOTE LEGEND



- (15) RAKE OUT AND REPOINT BED JOINTS ABOVE LOUVER.
- (16) REPAIR CRACK ABOVE WINDOW. RAKE OUT AND REPOINT.
- (17) REPAIR EXISTING CRACK. RAKE OUT AND REPOINT.
- (18) REMOVE LOOSE MORTER ABOVE VENT OPENING. RAKE OUT AND REPOINT AND ADD WEEP SCREENS.



 **EXISTING LOW ROOF FRAMING PLAN**
SCALE: 1/8" = 1'-0"

ROOF FRAMING NOTES:

1. REFERENCE ELEVATION 0'-0" + TRUE ELEVATION XXX.X'.
ESTABLISHED ELEVATIONS:
UNDERSIDE OF DECK EL VIF UON.
UNDERSIDE OF DECK EL VARIES SEE ROOF PROFILES THIS
SHEET.
2. METAL EX ROOF DECK TYPES:
EX RD: 2" TECTUM PANELS AND BULB TEES
3. REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION
S.002 FOR GENERAL NOTES.
S.401 FOR MASONRY NOTES.
4. DIMENSIONS INDICATED (VIF) SHALL BE VERIFIED IN FIELD.

MAINTENANCE OF MASONRY NOTES

PRODUCTS

MORTAR MATERIALS

- A. Lime: ASTM C207, Type S or SA
- B. Aggregate for Mortar: ASTM C 144 match sand color to that in existing interior mortar joints
- C. Portland Cement: ASTM C 150, Type I or II, except Type III may be used for cold weather construction. Provide natural or white color cement as required to produce mortar color indicated.
- D. Hydrated Lime: ASTM C 207, Type S.
- E. Water: Potable.
- F. Colored Mortar Pigments: Natural and synthetic iron oxides per ASTM C 979, compounded for use in mortar mixes. Use only pigments with record of satisfactory performance in masonry mortars.
 - 1. Color: Match existing
 - 2. Products: Subject to compliance with requirements, provide one of the following:
 - a. Davis Colors, Subsidiary of Rockwood Industries, Inc.; True Tone Mortar Colors
 - b. Holcim (US), Inc.; Rainbow MortarMix Custom Color.
 - c. Solomon Colors, Inc.; SGS Mortar Colors

MORTAR MIX

- A. General: Do not add admixtures including coloring pigments, air-entraining agents, accelerating or retarding agents, anti-freeze compounds, or other admixtures, unless otherwise indicated.
 - 1. Do not use calcium chloride in mortar or grout.
- B. Match existing mortar color.
- C. Colored Pigmented Mortar: Select and proportion pigments with other ingredients to produce color required.
 - 1. Pigment shall not exceed 5 percent, by weight, of the total cement content.
- D. Test existing mortar for strength per ASTM C1072 using Test Method for Prisms Removed from Existing Masonry. Match new pointing mortar to the strength of the existing mortar. Included below are two mortar mix specifications that may be applicable. Final decision is to be made based on the tested bond strength.
 - 1. Mortar for Unit Masonry: ASTM C 270, Property Specification (Except where soft lime mortar is required): Type O
 - 2. Soft Lime Mortar: Type "L" consisting of 0 part Cement: 1 part lime: 2-1/4 to 3 parts sand

MASONRY MATERIALS

- A. Match existing masonry

EXECUTION

- EXAMINATION**
- A. Verify that surfaces to be cleaned and restored are ready for work of this section

PREPARATION

- A. Protect surrounding elements from damage due to restoration procedures.
- B. Carefully remove and store removable items located in areas to be restored, including fixtures, fittings, finish hardware, and accessories; reinstall upon completion.
- C. Separate areas to be protected from restoration areas using means adequate to prevent damage.
- D. Cover existing landscaping with tarpaulins or similar covers.
- E. Mask immediately adjacent surfaces with material that will withstand cleaning and restoration procedures.
- F. Close off adjacent occupied areas with dust proof and weatherproof partitions.
- G. Protect roof membrane and flashings from damage with 1/2 inch plywood laid on roof surfaces over full extent of work area and traffic route.
- H. When using cleaning methods that involve water or other liquids, install drainage devices to prevent runoff over adjacent surfaces unless those surfaces are impervious to damage from runoff.
- I. Do not allow cleaning runoff to drain into sanitary or storm sewers.

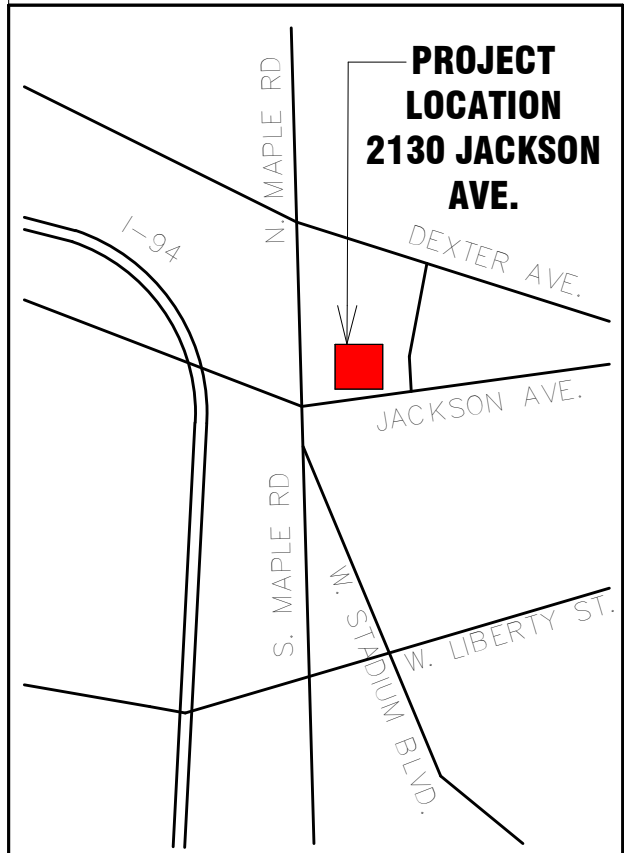
REBUILDING

- A. Cut out damaged and deteriorated masonry with care in a manner to prevent damage to any adjacent remaining materials.
- B. Support structure as necessary in advance of cutting out units.
- C. Cut away loose or unsound adjoining masonry to provide firm and solid bearing for new work.
- D. Build in new units following procedures for new work specified in other sections.
- E. Mortar Mix: Mix mortar with sand that matches cleaned mortar.
- F. Install build in masonry work to match and align with existing, with joints and coursing true and level, faces plumb and in line. Build in all openings, accessories and fittings.

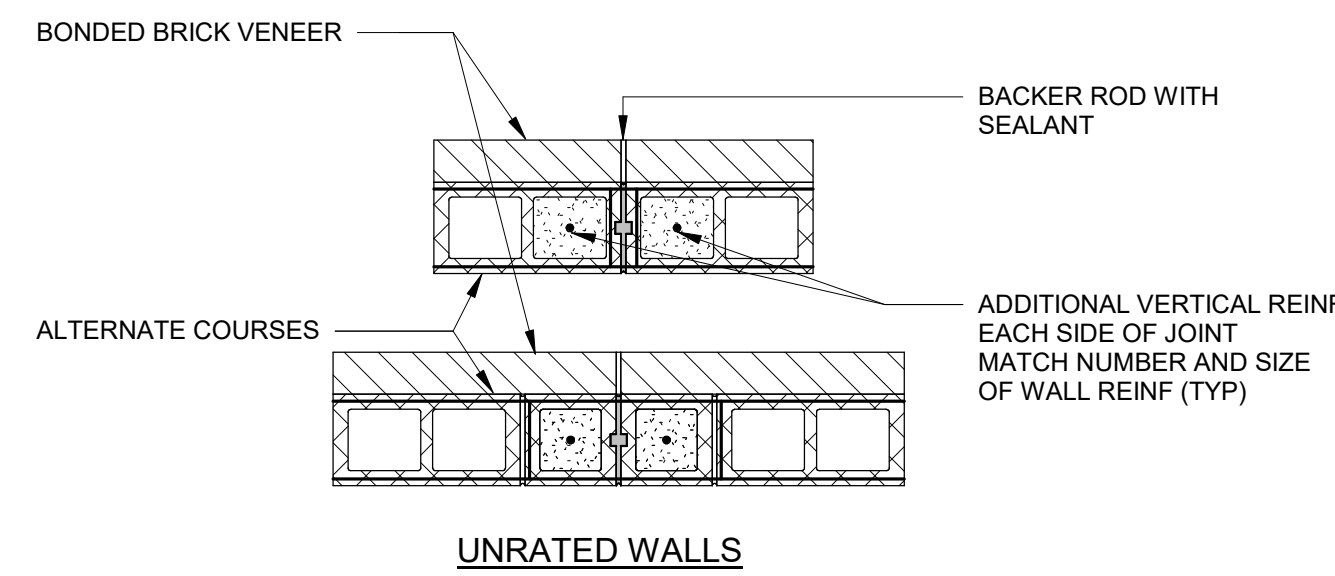
REPORTING

- A. Perform pointing prior to cleaning masonry surfaces.
- B. Cut out loose or disintegrated mortar in joints to minimum 1/2 inch depth or until sound mortar is reached. Leave square corners at the back of the cut.
- C. Use a power tools to cut joints determine no damage to masonry units will result. Hand tools are preferred.
- D. Do not damage masonry units.
- E. When cutting is complete, remove dust and loose material with water jet.
- F. When cleaning with water use a mix of potable water for 2 to 3 hours prior to pointing. Joints should be moist with no standing water. and apply mortar. Pack thickly in maximum 1/4 inch layers. Do not apply successive layers until preceding layer is thumbprint hard. Form a smooth, compact concave joint by feathering. If the face of brick has worn, rounded edges then recess the face. The final lift of mortar slightly from the face of the masonry, to prevent a featheredge from forming.
- G. After tooling, remove excess mortar from edge of joint by brushing with a natural or nylon bristle brush. Do not use metal shapers or tools.
- H. Moist cure for 72 hours. When polyurethane curing compound is used ensure that plastic is not in contact with wall and is of a color to protect mortar from direct sunlight.

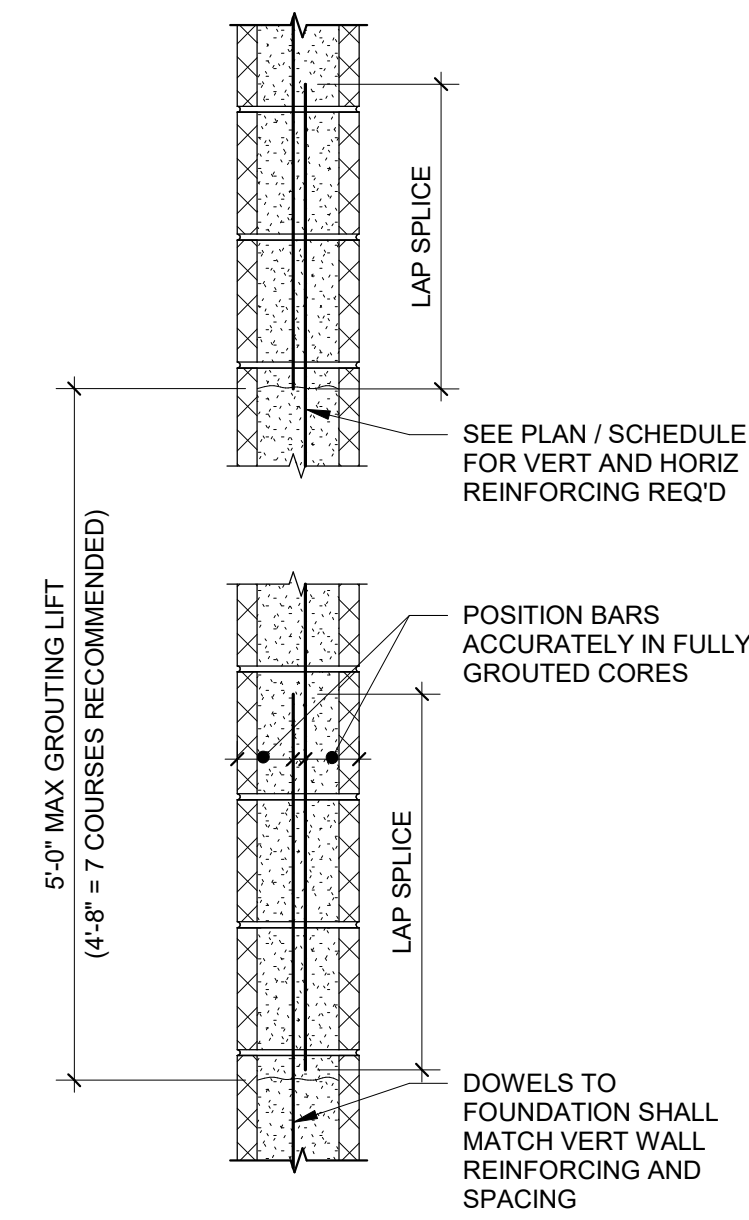
07/01/2026	OWNER REVIEW
06/09/2026	PROGRESS
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	JLY
DRAWN	CTM/MD
CHECKED	JLY
APPROVED	JLY



PROJECT TITLE	
CITY OF ANN ARBOR FIRE STATION NO. 3 EMERGENCY REPAIR	
SHEET TITLE	
EXISITNG LOW ROOF FRAMING PLAN	
HRC JOB NO. 20260330	SCALE
DATE May 2026	SHEET NO. S.103 OF



E4 **CMU CONTROL JOINTS**
S.401 SCALE: 3/4" = 1'-0"



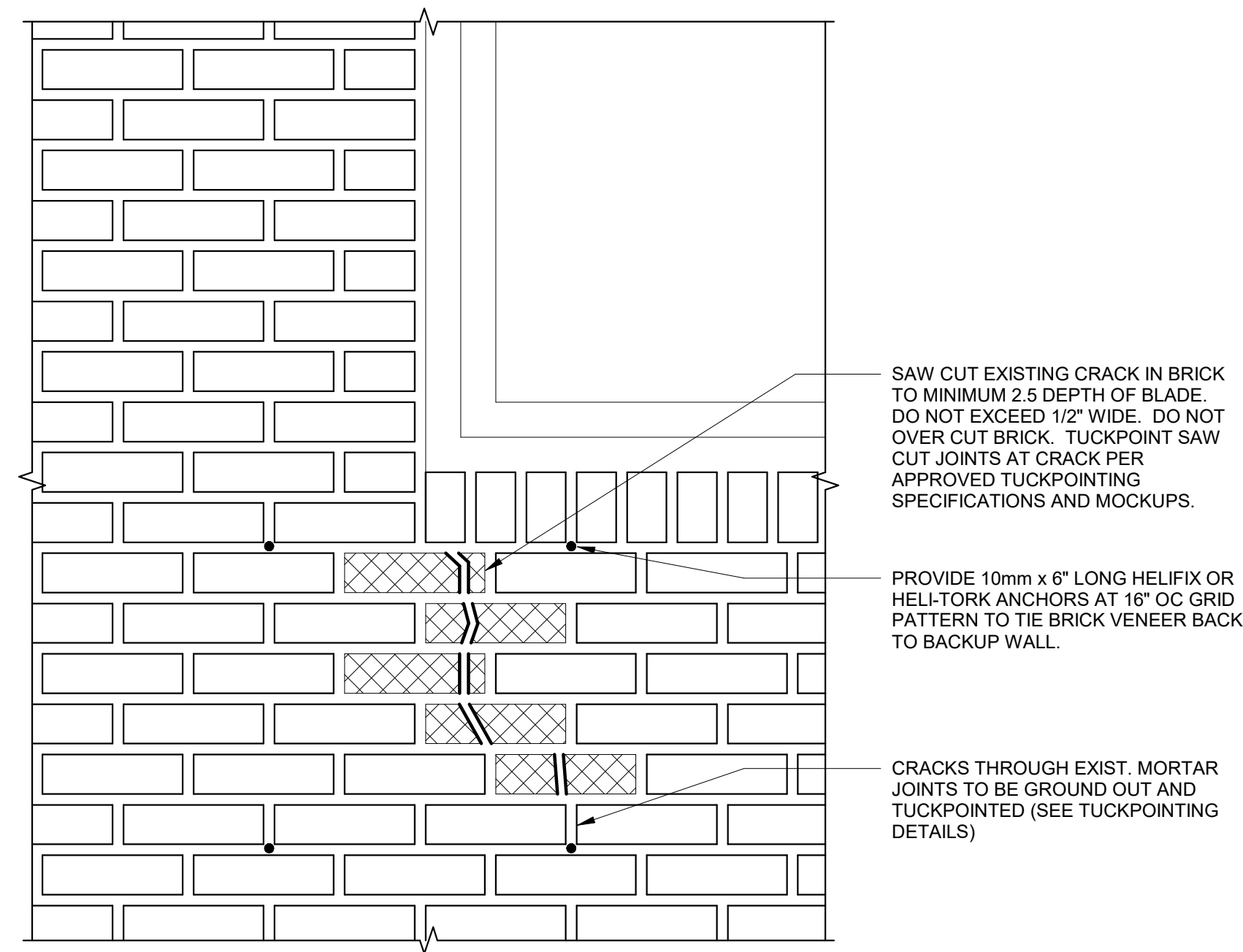
CMU REBAR LAP SPLICE LENGTH SCHEDULE					
NOMINAL WALL SIZE	VERTICAL BAR SIZE	f'm = 1500 PSI		f'm = 2000 PSI	
		SINGLE CENTERED BAR	OFF CENTER-DOUBLE BARS	SINGLE CENTERED BAR	OFF CENTER-DOUBLE BARS
8" CMU	#4	21"	26"	13"	22"
	#5	26"	40"	20"	34"
	#6	43"	54"/ MECHANICAL COUPLER	37"	54"/ MECHANICAL COUPLER
	#7	60"	63"/ MECHANICAL COUPLER	52"	63"/ MECHANICAL COUPLER
	#8	72"	72"/ MECHANICAL COUPLER	72"	72"/ MECHANICAL COUPLER
10" CMU	#4	21"	26"	12"	22"
	#5	26"	40"	15"	34"
	#6	40"	54"/ MECHANICAL COUPLER	29"	54"/ MECHANICAL COUPLER
	#7	46"	63"/ MECHANICAL COUPLER	40"	63"/ MECHANICAL COUPLER
	#8	71"	72"/ MECHANICAL COUPLER	61"	72"/ MECHANICAL COUPLER
12" CMU	#4	21"	26"	12"	22"
	#5	26"	40"	13"	34"
	#6	40"	54"/ MECHANICAL COUPLER	24"	54"/ MECHANICAL COUPLER
	#7	46"	63"/ MECHANICAL COUPLER	33"	63"/ MECHANICAL COUPLER
	#8	61"	72"/ MECHANICAL COUPLER	50"	72"/ MECHANICAL COUPLER

NOTES:

1. VALUES BASED ON REBAR $F_y = 60,000$ psi
2. CONTRACTOR'S OPTION TO USE MECHANICAL COUPLER IN LIEU OF LAP
3. DEPTH OF BAR FOR DOUBLE REINF EQUALS NOMINAL UNIT THICKNESS MINUS 2"

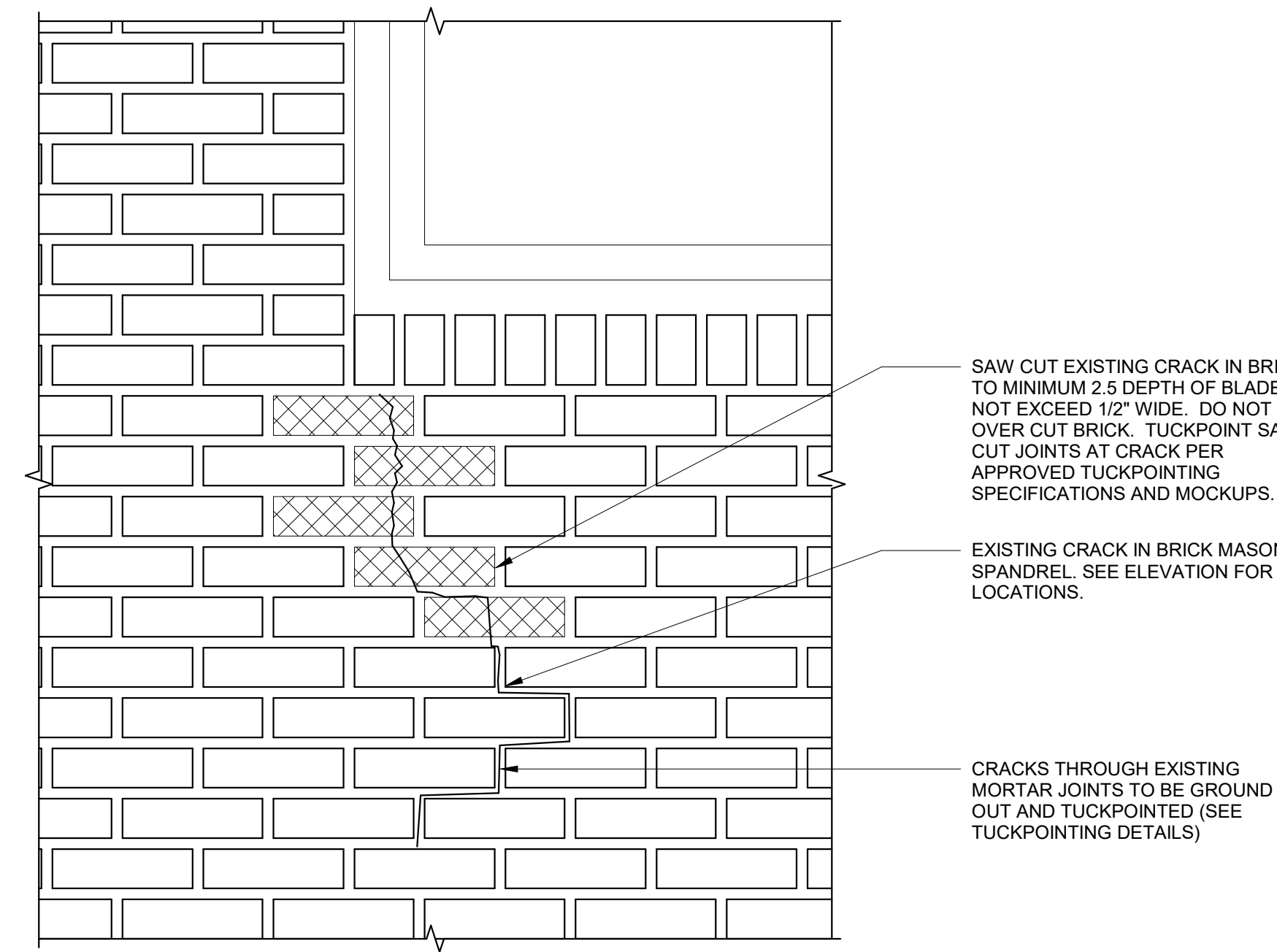
C4 TYPICAL MASONRY WALL REINF LOW LIFT GROUTING

S.401 SCALE: 1" = 1'-0"



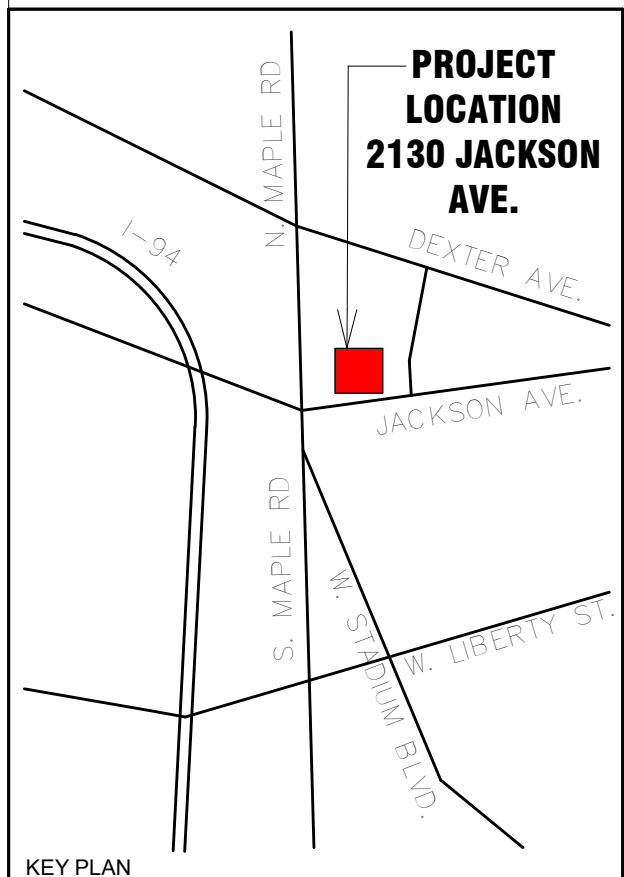
A6 BRICK VENEER CRACK - REPAIR

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



A3 **BRICK VENEER CRACK - EXISTING**
S.401 SCALE: 1 1/2" = 1'-0"

07/01/2026	OWNER REVIEW
06/09/2026	PROGRESS
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	JLY
DRAWN	CTM/MD
CHECKED	JLY
APPROVED	JLY



PROJECT TITLE

CITY OF ANN ARBOR
RE STATION NO. 3
EMERGENCY REPAIR

SHEET TITLE

MASONRY DETAILS

HRC JOB NO. 20260330	SCALE
DATE May 2026	SHEET NO. S.401 OF

PROJECT NOTES:

GENERAL REQUIREMENTS:

1. CONTRACTOR SHALL COORDINATE ALL WORK PRIOR TO INSTALLATION OR FABRICATION OF ANY COMPONENTS. ALL OPENINGS SHALL ALSO BE COORDINATED.
2. ALL WORK MUST CONFORM TO ALL STATUTES OF THE MICHIGAN BUILDING CODE (EDITION IN EFFECT AT THE TIME OF THE PERMIT), ALL STATE, COUNTY AND LOCAL ORDINANCES, CURRENTLY ENFORCED, ALL APPLICABLE INTERNATIONAL BUILDING CODES, ALL APPLICABLE INTERNATIONAL FIRE PREVENTION REGULATIONS, MICHIGAN STRUCTURAL GUIDELINES, ASTM STANDARD TESTING PROCEDURES, OWNER'S PRACTICES AND GENERALLY ACCEPTED DESIGN PRACTICES. IF DISCREPANCIES IN DRAWING APPEAR, WORK MUST BE DONE PER CODE. CITY WILL COVER THE COST OF BUILDING, ELECTRICAL, MECHANICAL, AND PLUMBING PERMITS. CONTRACTOR MUST STILL APPLY FOR THE PERMITS.
3. EXISTING CONDITIONS OF BUILDING SHOWN ON CONSTRUCTION DOCUMENTS ARE ILLUSTRATIVE OF CONDITIONS VISIBLE TO ARCHITECT AND BASED ON EXISTING DRAWINGS. ALL EXISTING DIMENSIONS, CONDITIONS, SIZES & LOCATIONS ARE TO BE FIELD VERIFIED.
4. CONTRACTOR SHALL PROVIDE NEW OPENINGS AND SUPPORTS AS NOTED. FINAL OPENING DIMENSIONS, CONNECTION SIZES, CLEARANCES, ETC. MUST BE COORDINATED DURING CONSTRUCTION WITH APPROVED COMPONENTS. SEAL TIGHT ALL OPENINGS (ROOF, WALL AND CEILING), EQUIPMENT AND/OR PENETRATIONS - FROM AIR AND MOISTURE.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND APPROVED MANUFACTURERS.
6. ALL INSTALLATIONS TO BE COORDINATED WITH EXISTING CONDITIONS FOR PROPER SIZE, LOCATION AND PROVISIONS REQUIRED TO INSTALL COMPONENTS.
7. THE CONTRACTOR SHALL COORDINATE NEW INSTALLATIONS WITH EXISTING PIPING AND CONDUIT HANGERS AND SUPPORTS AS NECESSARY.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRANSITIONS, FITTINGS AND APPURTENANCES TO CONNECTIONS.
9. CONFIRM ANY COLOR SELECTIONS WITH OWNER. COLORS TO COORDINATE WITH EXISTING BUILDING.
10. PREVENT GALVANIC ACTION AND OTHER FORMS OF CORROSION BY INSULATING METALS OR OTHER MATERIALS FROM DIRECT CONTACT WITH INCOMPATIBLE MATERIALS.
11. SHOP DRAWINGS AND PRODUCT DATA - THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND PROJECT ENGINEER, SHOP DRAWINGS & PRODUCT DATA SUBMITTALS FOR ALL PRODUCTS AND COMPONENTS TO BE USED ON THIS PROJECT. MAINTAIN ONE COPY OF ALL APPROVED SUBMITTALS AT THE SITE FOR THE OWNER'S REFERENCE.
12. "RECORD" DRAWINGS - THE CONTRACTOR SHALL MAINTAIN A SET OF "AS-BUILT" PRINTS, MARKED UP AT THE SITE, CONTAINING ALL "AS-BUILT" INFORMATION. TURN SET OVER TO ENGINEER UPON COMPLETION OF THE WORK.
13. INSTALL ALL MATERIALS IN COMPLIANCE W/ MFR. RECOMMENDATIONS AND CODE REQUIREMENTS.
14. CONTRACTOR MUST VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO START OF DEMOLITION AND MAKE EVERY EFFORT TO PROTECT THEM OR RELOCATE AS REQUIRED.
15. ALL NEW PERMANENT WOOD BLOCKING, SHEATHING, FRAMING, ETC. UTILIZED IN CONSTRUCTION TO MATCH EXISTING.

GENERAL NOTES:

1. REFER TO PLANS AND PHOTOS TO DETERMINE SCOPE OF EXTERIOR AND INTERIOR MASONRY REPOINTING. VERIFY EXACT EXTENT OF REPAIR EFFORTS IN THE FIELD.
2. INTERIOR SPACES OF BUILDINGS AFFECTED BY THIS WORK SCOPE ARE TO BE CLEANED OF ALL DUST AND DEBRIS PRIOR TO FINAL CLOSE OUT OF JOB.
3. ANY EXISTING BROKEN OR DAMAGED BRICK AND CMU ARE TO BE REPAIRED - SEE STRUCTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. TOUCH UP PAINT AT WALLS AND CEILINGS WHERE DAMAGED OR DISTURBED BY WORK SCOPE MATCH EXISTING COLOR/FINISH.
5. PROVIDE REPLACEMENT GYPSUM BOARD AT CEILINGS IN AREAS AS NOTED. NEW MATERIALS TO MATCH THICKNESS AND COMPOSITION OF EXISTING CEILINGS ADJACENT. PROVIDE CUT SHEET FOR REVIEW AND APPROVAL.

SPECIFICATIONS:

PAINTING

1. TOUCH UP PAINT AS REQUIRED AT AREAS THAT REMAIN OR RELOCATED ITEMS THAT HAVE BEEN AFFECTED BY PROJECT CONSTRUCTION. COLOR AND FINISH TO MATCH EXISTING AND BE APPROPRIATE FOR MATERIALS TO BE PAINTED.
2. ALL DRY FILM THICKNESSES SHALL FALL WITHIN PAINT MFR. RECOMMENDED RANGES. INSTALL ALL PAINT MATERIALS PER MFR. RECOMMENDATIONS. ALL COLORS TO BE DETERMINED BY OWNER. ALL PAINT PRODUCTS UTILIZED TO BE BY THE SAME MFR.
3. PREPARE SURFACES PRIOR TO PAINTING IN ACCORDANCE WITH MFR. RECOMMENDATION. PREPARE PAINTING AREAS SO AS TO NOT APPLY PAINT ON ADJACENT FINISHES THAT ARE TO REMAIN UNPAINTED. AREAS TO BE REPAINTED SHALL INCLUDE ALL SURROUNDING WALL SURFACE UP TO ADJACENT CHANGES IN WALL SURFACE (I.E. ROOM CORNERS, CHANGES IN WALL PLANE, DOOR TRIM, ETC.).
4. ALL NEW MORTAR AND CMU MUST CURE FOR A MINIMUM OF 28 DAYS PRIOR TO PAINTING PER MFR. REQUIREMENTS. DO NOT APPLY MATERIALS WHEN TEMPERATURES AND HUMIDITY LEVELS ARE OUTSIDE THE RANGES REQUIRED BY THE COATING PRODUCT MANUFACTURER. DO NOT APPLY EXTERIOR COATINGS DURING RAIN OR SNOW.
5. ALL PAINTS USED MUST BE FROM THE SAME MANUFACTURER.
6. GIVEN THE AGE OF THE BUILDING, EXISTING PAINT MAY CONTAIN LEAD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE SURFACES AS REQUIRED PER MFR. RECOMMENDATIONS. EXISTING PAINTED SURFACES THAT WILL BE AFFECTED BY PROJECT ACTIVITIES ARE TO BE ABATED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AND GUIDELINES AS PART OF THIS WORK SCOPE. PROVIDE DOCUMENTATION OF COMPLIANCE METHODS TO OWNER FOR RECORD AS PART OF SUBMITTALS.
7. CONCRETE MASONRY UNITS SHALL BE PAINTED IN (2) COATS.
 - 7.1. SURFACE PREPARATION - CLEAN SURFACES THEN THOROUGHLY AND UNIFORMLY ABRASE TO GENERATE A MINIMUM 1.0 MIL SURFACE PROFILE IN ACCORDANCE WITH MFR. RECOMMENDATIONS.
 - 7.2. PRIME SURFACES AS REQUIRED TO PROVIDE ADHESION PER MANUFACTURER'S RECOMMENDATIONS.
 - 7.3. INTERMEDIATE AND FINISH COATS - SHERWIN WILLIAMS PRO INDUSTRIAL WATER BASED CATALYZED EPOXY, CARBOLINE SANITILE 255 OR TNEMEC 113 H.B. TNEME-TUFOCOAT (3.0 DRY MILS MIN. EACH COAT). USE SEMI-GLOSS SHEEN FOR FINISH COATS.
8. FERROUS METALS SHALL BE PAINTED IN (3) COATS:
 - 8.1. SURFACE PREPARATION: CLEAN SURFACES THEN THOROUGHLY AND UNIFORMLY ABRASE TO GENERATE A MINIMUM 1.0 MIL SURFACE PROFILE IN ACCORDANCE WITH MFR. RECOMMENDATIONS.
 - 8.2. PRIMER COAT - SHERWIN WILLIAMS EXTREME BOND INTERIOR/EXTERIOR BONDING PRIMER, CARBOLINE SANITILE 120 OR TNEMEC 113 H.B. TNEME-TUFOCOAT (2.0 DRY MILS MIN.)
 - 8.3. INTERMEDIATE AND FINISH COATS - SHERWIN WILLIAMS PRO INDUSTRIAL WATER BASED CATALYZED EPOXY, CARBOLINE SANITILE 255 OR TNEMEC 113 H.B. TNEME-TUFOCOAT (3.0 DRY MILS MIN. EACH COAT). USE SEMI-GLOSS SHEEN FOR FINISH COATS.

SEALANT:

SEALANT FOR MISC. VERTICAL OR OVERHEAD JOINTS TO BE CAULKED SHALL BE SILICONE ASTM C920, GRADE NS, TYPE S, CLASS 50, USE G/A/M/O, ONE PART, NEUTRAL CURING, NON-STAINING, NON-BLEEDING, NON-SAGGING; PECORA 864N/ST, DOW DOWSIL 790 OR EQUAL. COLOR TO MATCH ADJACENT SURFACES, PROVIDE CUSTOM COLOR TO MATCH EXISTING SURFACES AS REQUIRED. SUBMIT SAMPLES FOR ARCHITECT/OWNER REVIEW. DO NOT PAINT OVER CAULK.



PHOTO 01

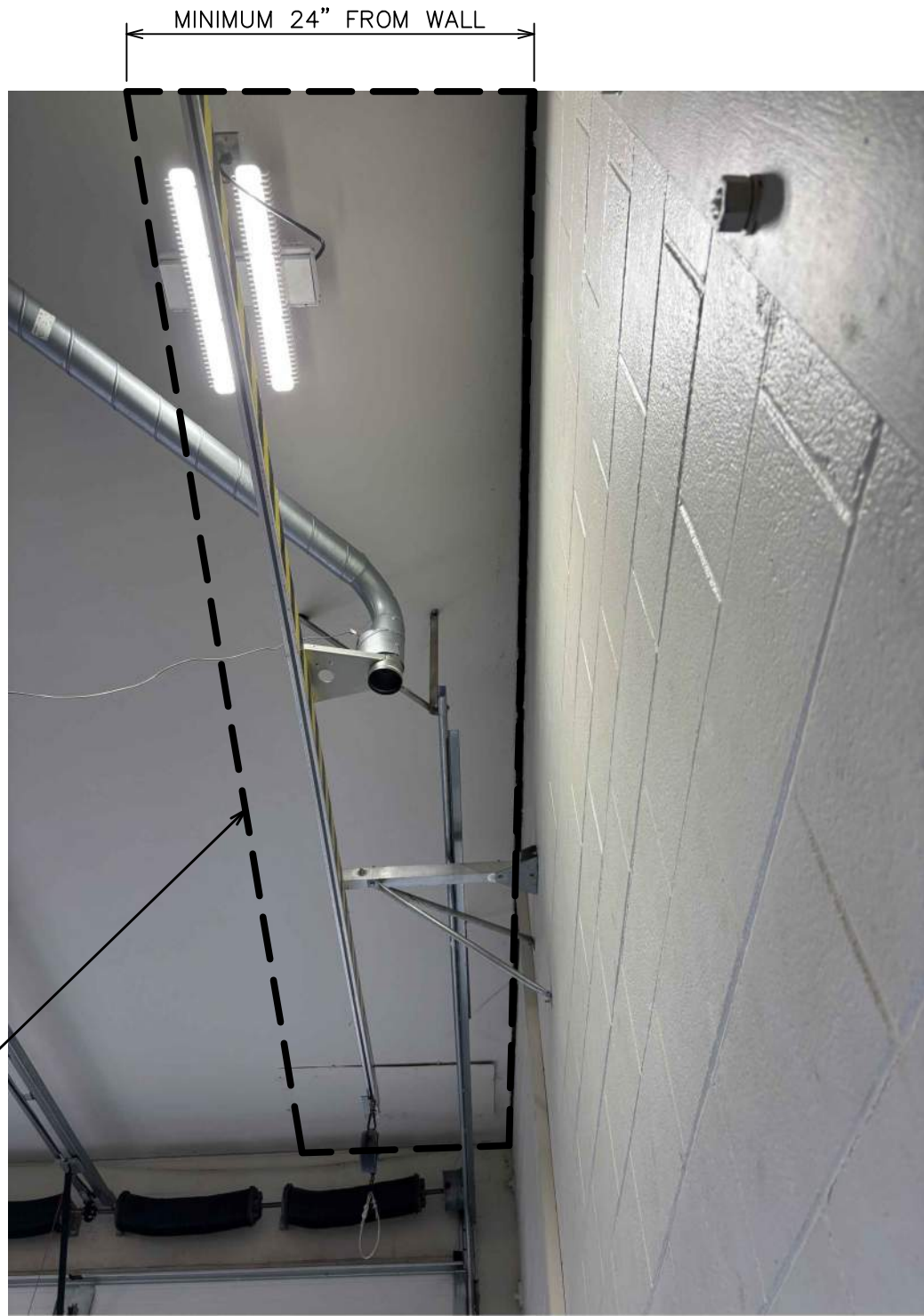


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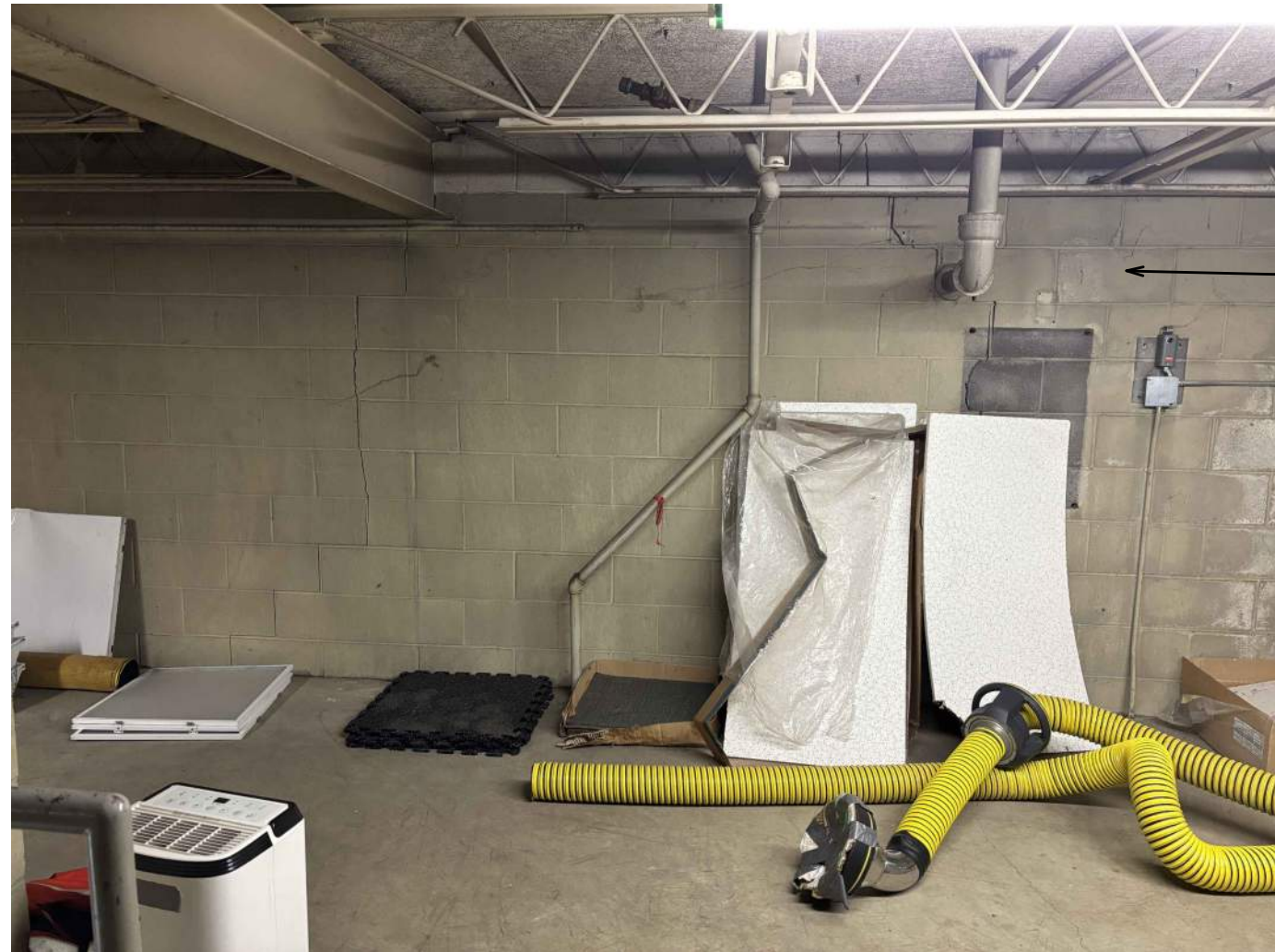


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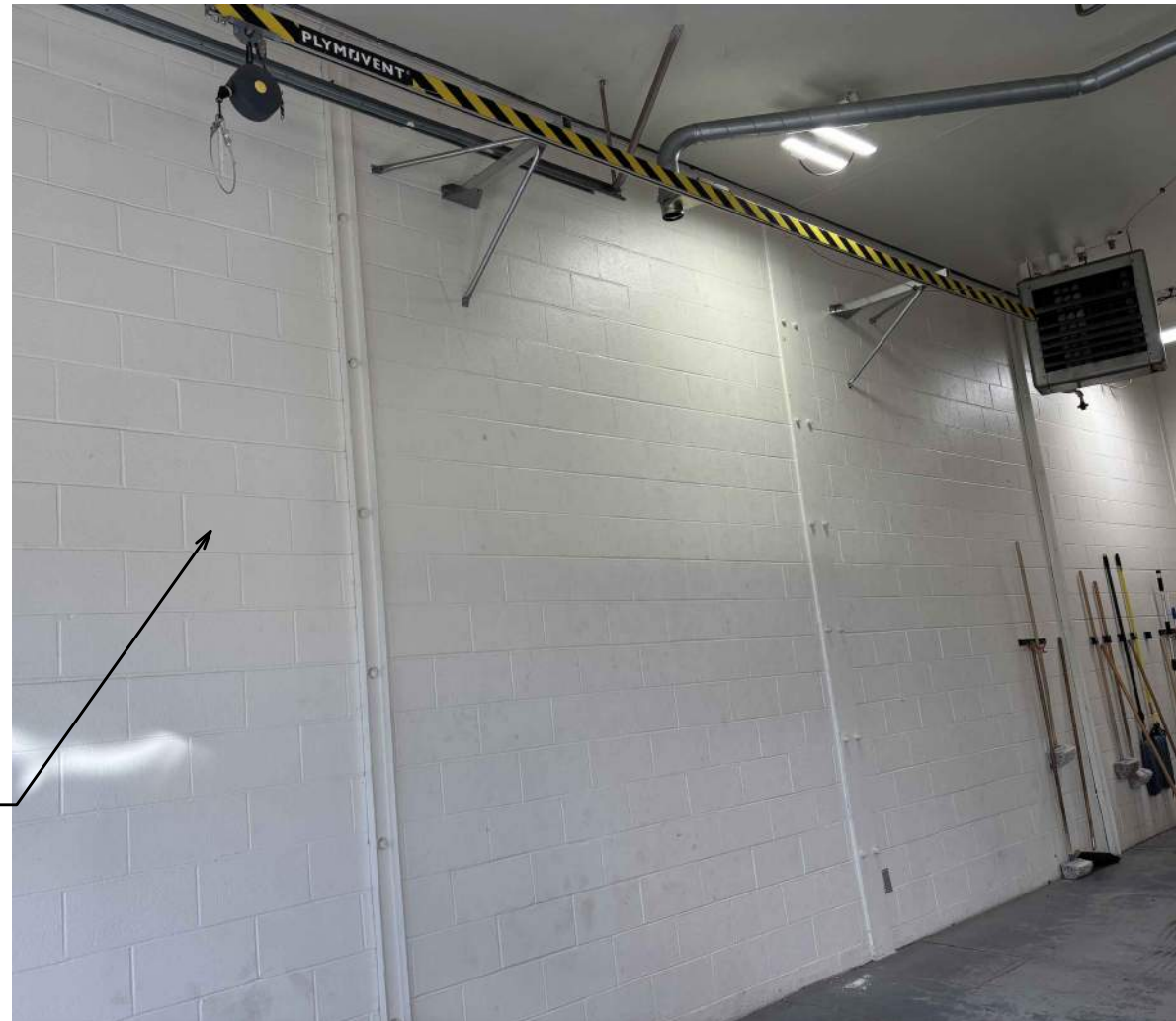


PHOTO 04



PHOTO 05

FIRE STATION REPAIRS SCOPE ITEMS			
DESCRIPTION	UNIT	AMOUNT	
CEILING REMOVAL AND REPLACEMENT	LS	1	
INSTALL BACKER ROD & CAULK AT INTERIOR CEILING JOINTS	LS	1	
REPAINT WALLS IN AFFECTED AREAS AS NOTED	LS	1	
REPLACE BROKEN CMU FACE SHELLS AND GROUT	SF	44	
INSTALL #6 REBAR FULL HEIGHT COMPLETE WITH DOWELS, GROUTING AND REPLACE FACE SHELLS	EA	27	
CMU REPOINTING (INTERIOR)	LF	110	
BRICK REPOINTING (EXTERIOR)	LF	210	
NEW MASONRY CONTROL JOINTS, COMPLETE	LF	162	

NOTES:
 THE QUANTITIES AND DESCRIPTIONS ABOVE ARE PROVIDED FOR CLARIFICATION AND INFORMATION ONLY. THE CONTENTS OF THIS TABLE ARE TO BE USED FOR THE CONSTRUCTION BIDDING PROCESS ONLY AND ARE NOT TO BE CONSTRUED AS INDIVIDUAL PAY/BIID ITEMS U.N.O..

HRC
HUBBELL, ROTH & CLARK, INC.
CONSULTING ENGINEERS SINCE 1915

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BLOOMFIELD HILLS, MICH.

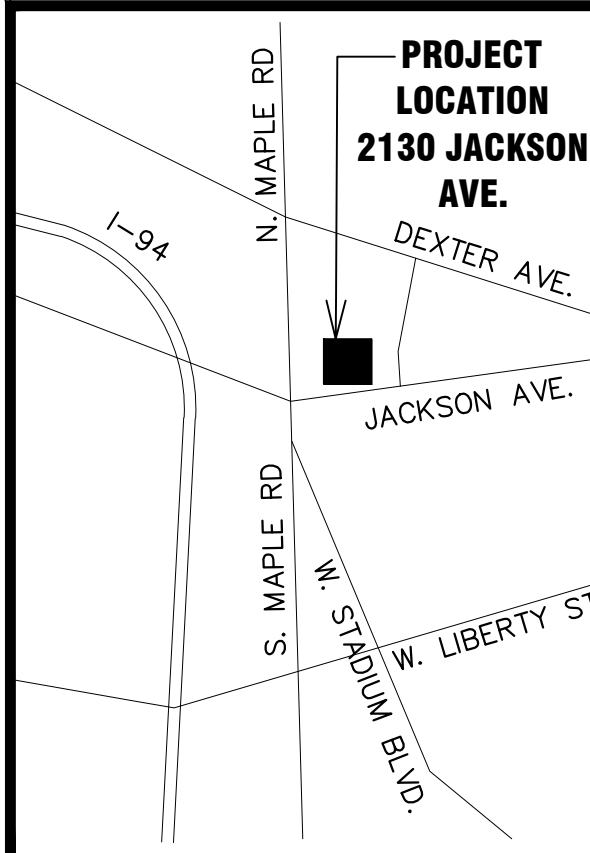
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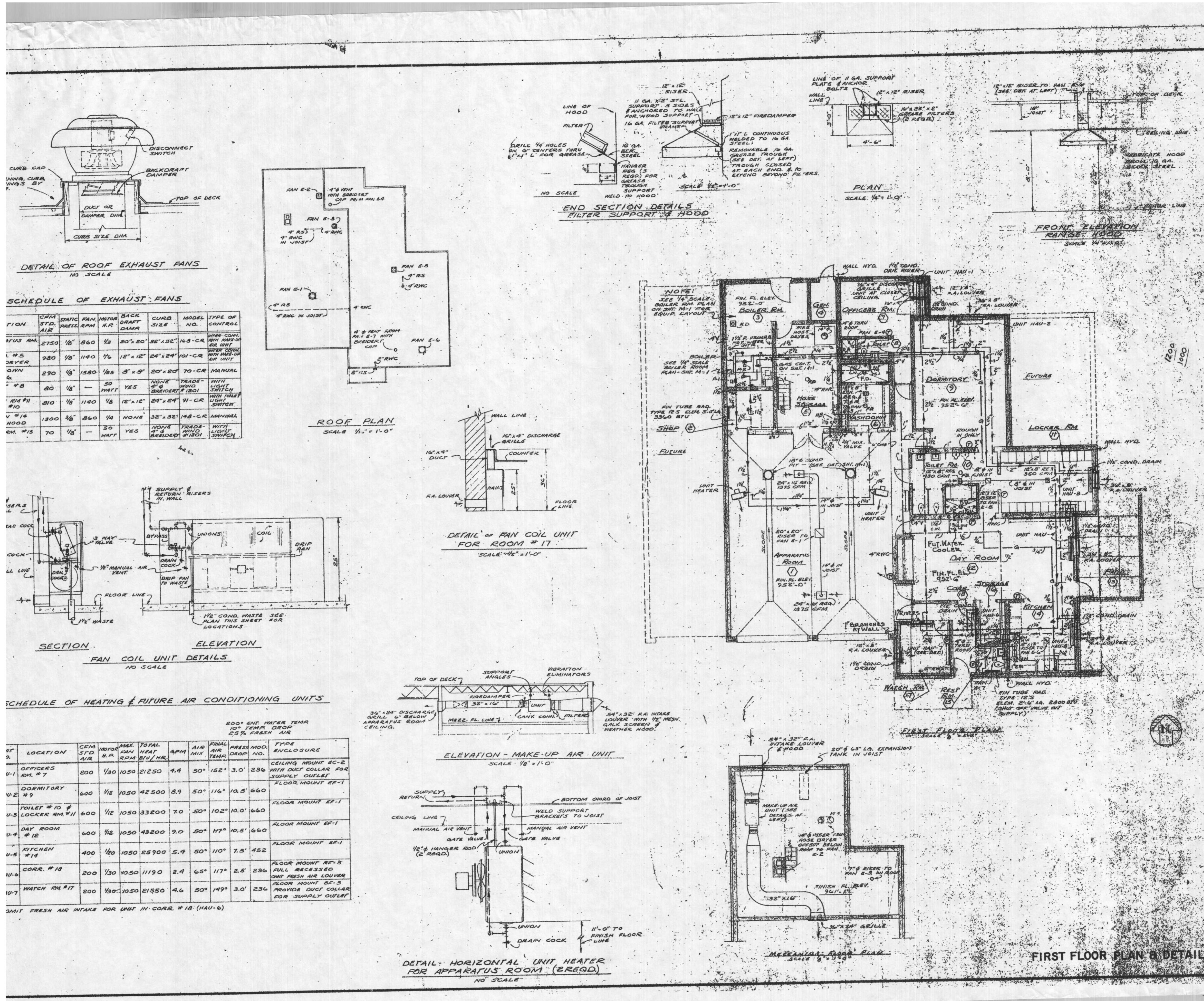
07/01/2026	OWNER REVIEW
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	AMM
DRAWN	AG
CHECKED	AMM
APPROVED	JB



CITY OF ANN ARBOR
FIRE STATION NO. 3
EMERGENCY REPAIR

BUILDING REPAIR
NOTES & REFERENCE PHOTOS

HRC JOB NO. 20260330	SCALE AS NOTED
DATE July 2026	SHEET NO. A-1 OF



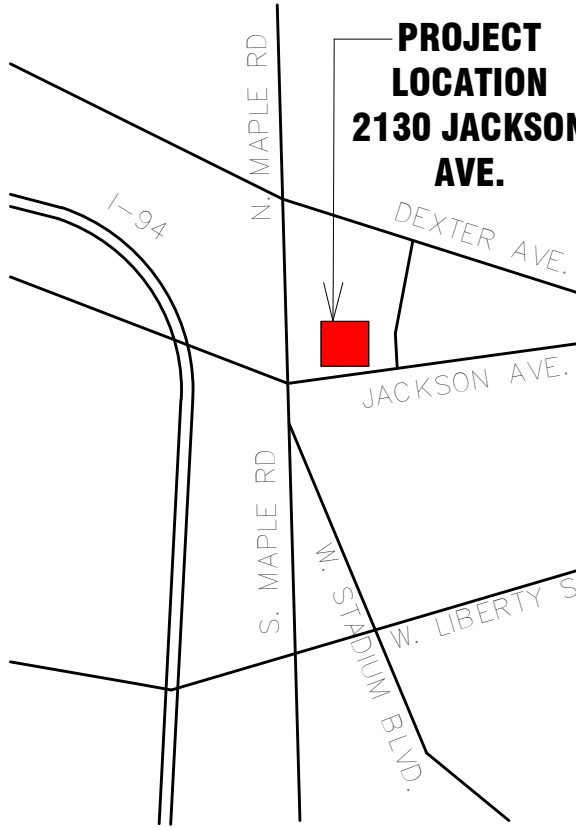
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DESIGNED ---	
DRAWN ---	
CHECKED ---	
APPROVED ---	



KEY PLAN

PROJECT TITLE

CITY OF ANN ARBOR
**FIRE STATION NO. 3
EMERGENCY REPAIR**

SHEET TITLE

**EXISTING
DRAWINGS**

HRC JOB NO. 20260330	SCALE
DATE May 2026	SHEET NO. EX.101 OF



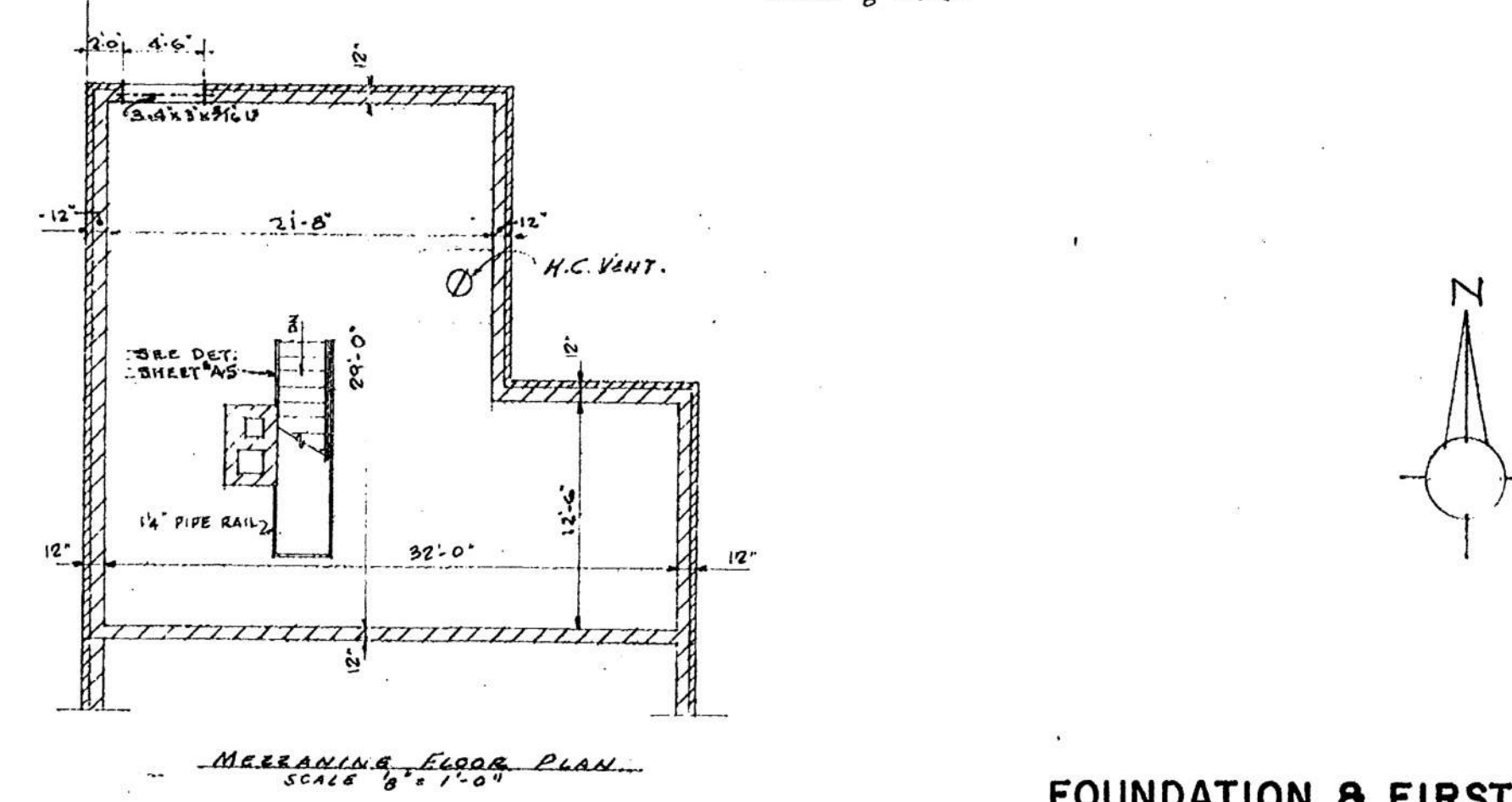
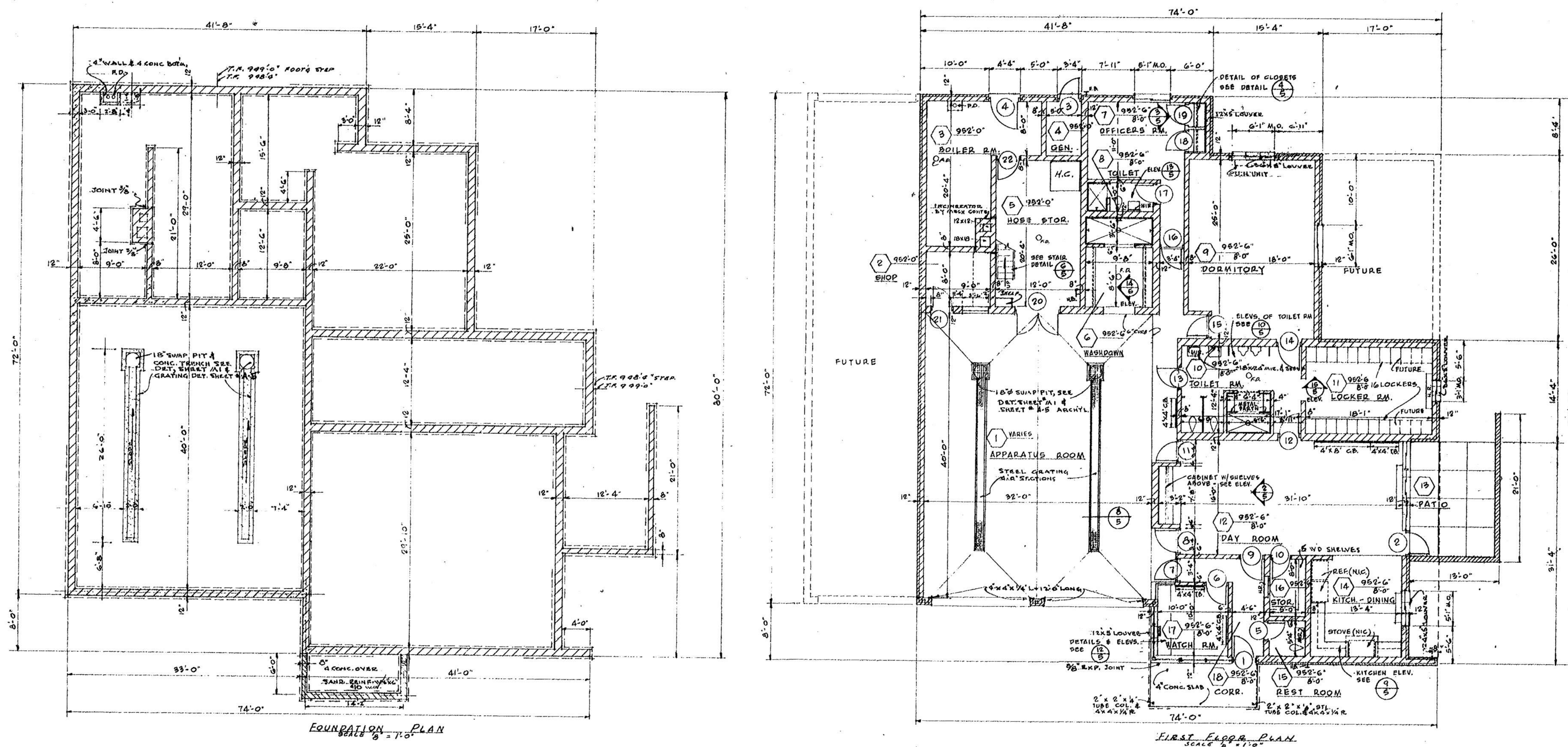
**CHARLES W. LANE
ASSOCIATES
ARCHITECTS**

**3366 WASHTENAW
ANN ARBOR, MICH.**

WEST SIDE FIRE STATION
VETERANS' PARK
ANN ARBOR MICHIGAN

PRINT DATE	
PRELIMINARY DATE	7-16-62
CONSTRUCTION DATE	8-16-62
FINAL RECORDED DATE	
ARCHITECTS JOB NO.	789
DRAWN H.K.	
CHECKED W.R.P.	
APPROVED	<i>Karl W. Wink</i>
SHEET NO.	

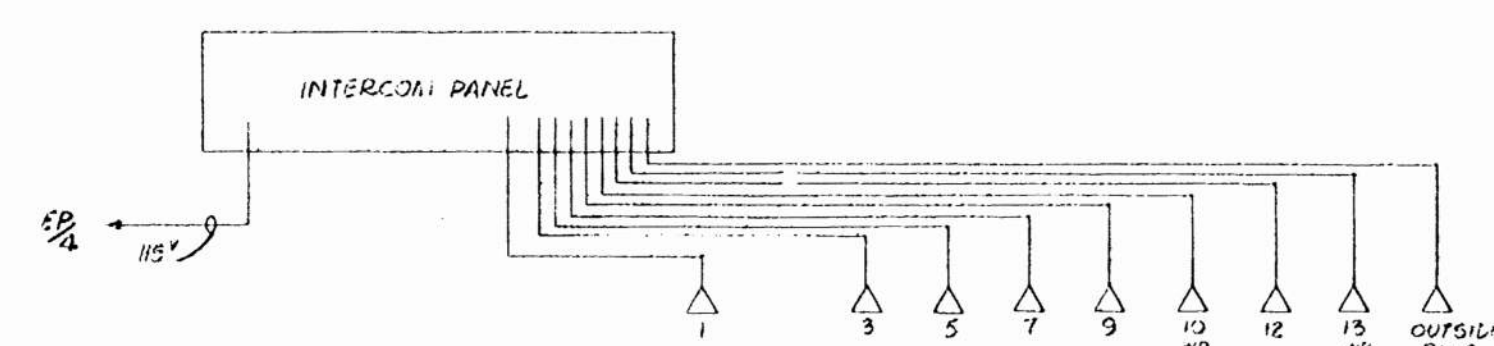
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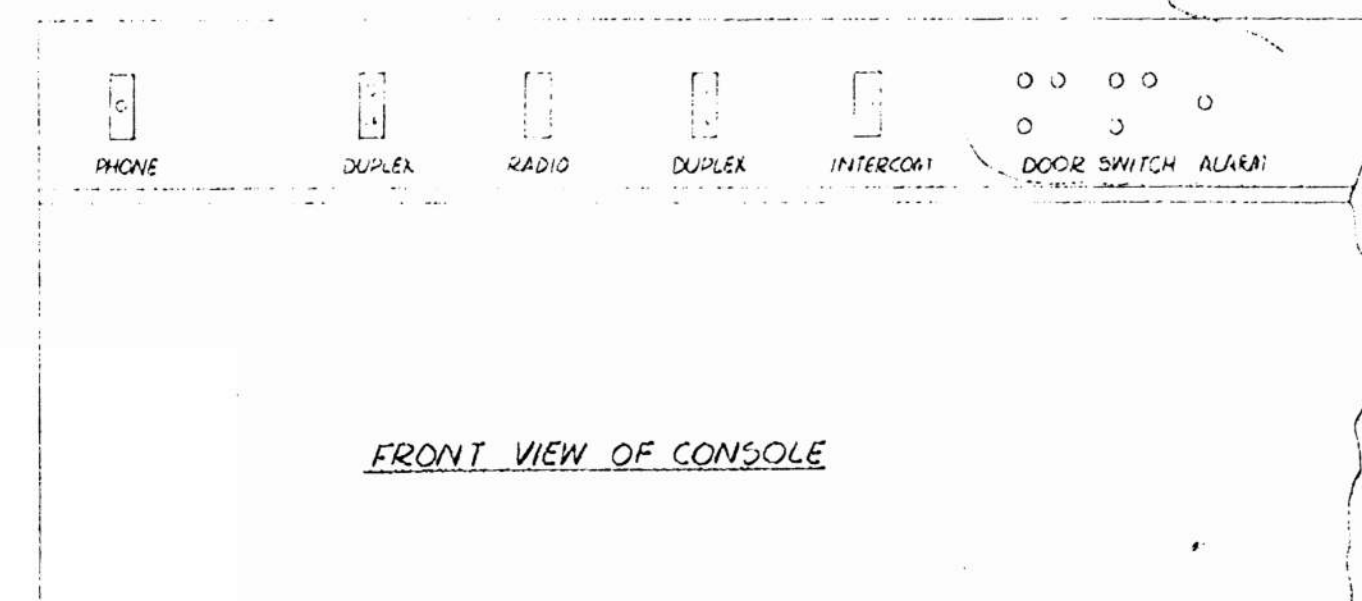
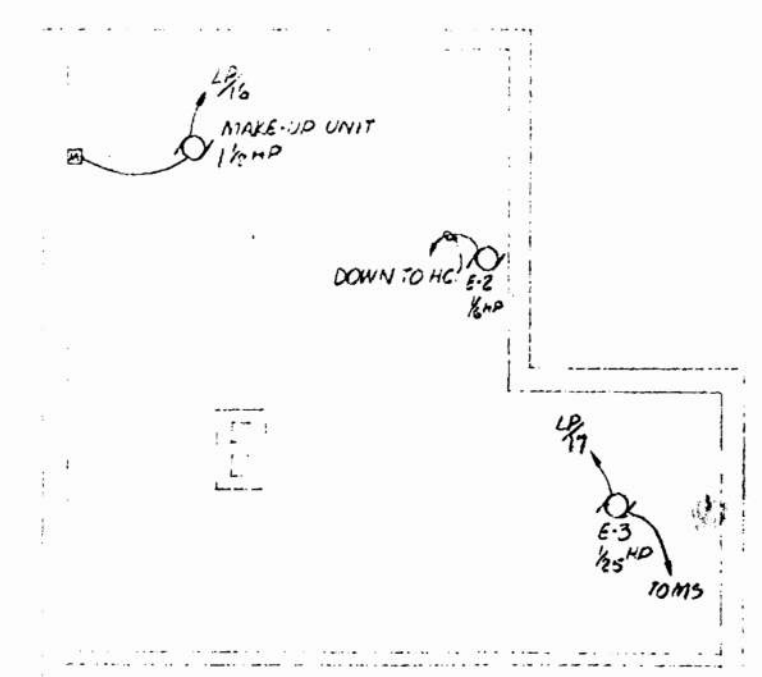
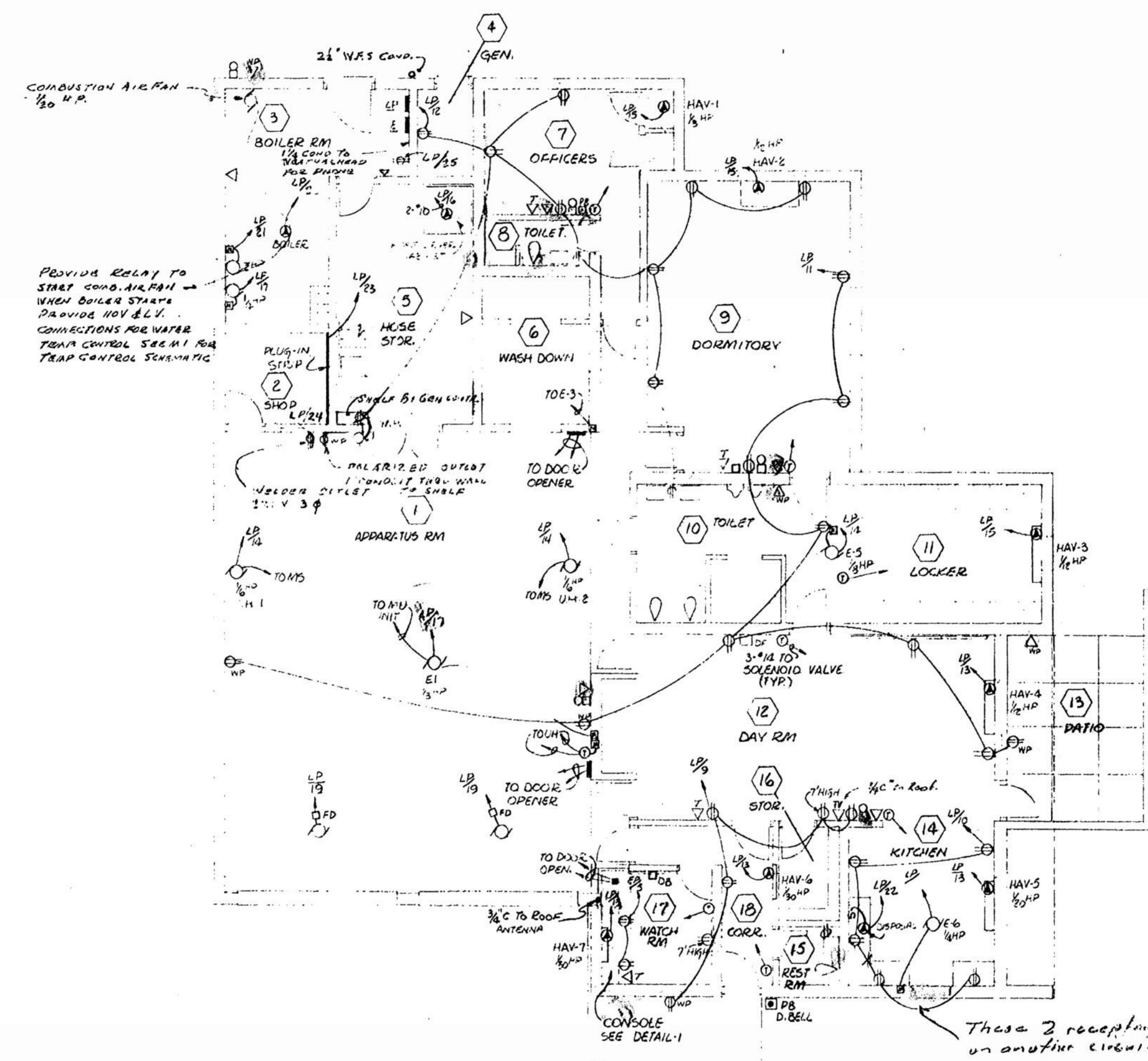
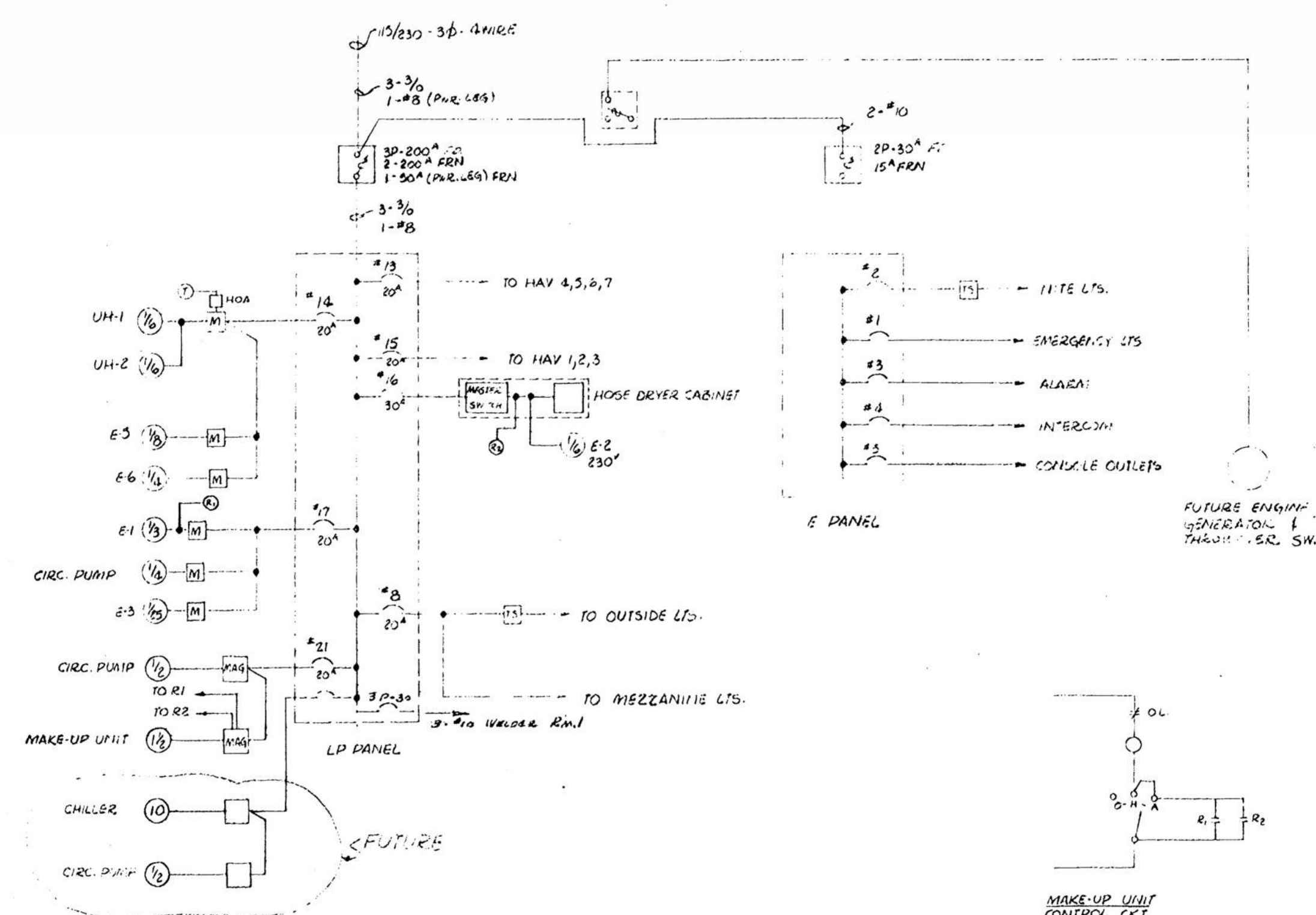
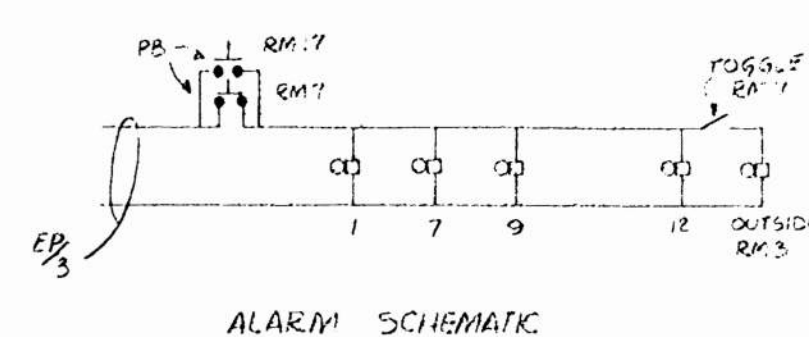
FOUNDATION & FIRST FLOOR PLAN

ROOM FINISH SCHEDULE					
ROOM	FLOOR	BASE	WALL	CEILING	REMARKS
1. APPARATUS RM.	TROWELLED CONC.	NONE	PAINTED BLOCK	PLASTER	
2. SHOP	TROWELLED CONC. W/ HARDENER	NONE	PAINTED BLOCK	EXPOSED CONST.	
3. BOILER RM.	TROWELLED CONC. W/ HARDENER	NONE	PAINTED BLOCK	EXPOSED CONST.	
4. GENERATOR	TROWELLED CONC. W/ HARDENER	NONE	PAINTED BLOCK	EXPOSED CONST.	
5. HOSE STORAGE	TROWELLED CONC. W/ HARDENER	NONE	PAINTED BLOCK	EXPOSED CONST.	
6. WASHDOWN AREA	CERAMIC TILE	CERAMIC TILE	6" X 6" WAINSCOT & PAINTED BLOCK	PLASTER	WAINSCOT IN SHOWER ONLY
7. OFFICERS' RM.	ASPHALT TILE	RUBBER	PAINTED BLOCK	ACOUSTIC TILE	
8. TOILET	CERAMIC TILE	CERAMIC TILE	6" X 6" WAINSCOT PAINTED BLOCK	PLASTER	WAINSCOT IN SHOWER ONLY
9. DORMITORY	ASPHALT TILE	RUBBER	PAINTED BLOCK	ACOUSTIC TILE	
10. TOILET RM.	CERAMIC TILE	CERAMIC TILE	6" X 6" WAINSCOT & PAINTED BLOCK	PLASTER	WAINSCOT IN SHOWER ONLY
11. LOCKER RM.	ASPHALT TILE	RUBBER	PAINTED BLOCK	PLASTER	
12. DAY RM.	ASPHALT TILE	RUBBER	PAINTED BLOCK	ACOUSTIC TILE	
13. PATIO	4" CONCRETE	—	3/8" EXP. JOINT @ WALLS		
14. KITCHEN- DINING	VINYL ASBESTOS	RUBBER	PAINTED BLOCK	PLASTER	
15. REST ROOM	ASPHALT TILE	RUBBER	PAINTED BLOCK	PLASTER	
16. STORAGE	TROWELLED CONC. W/ HARDENER	NONE	PAINTED BLOCK	PLASTER	
17. WATCH ROOM	ASPHALT TILE	RUBBER	PAINTED BLOCK	ACOUSTIC TILE	
18. CORRIDOR	ASPHALT TILE	RUBBER	PAINTED BLOCK	ACOUSTIC TILE	
19.					

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SOUND SCHEMATIC



DETAIL - 1
NO SCALE

**CHARLES W. LANE
ASSOCIATES
ARCHITECTS**
3366 WASHTENAW
ANN ARBOR, MICH.

[illegible]

WEST SIDE FIRE STATION
VETERANS' PARK
ANN ARBOR MICHIGAN

PRINT DATE	
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ARCHITECTS JOB NO.	
	789
DRAWN	MB
CHECKED	
APPROVED	E. J. [illegible] Kend. J. W. [illegible]
SHEET NO.	

POWER & OUTLETS - RISER DIAGRAMS

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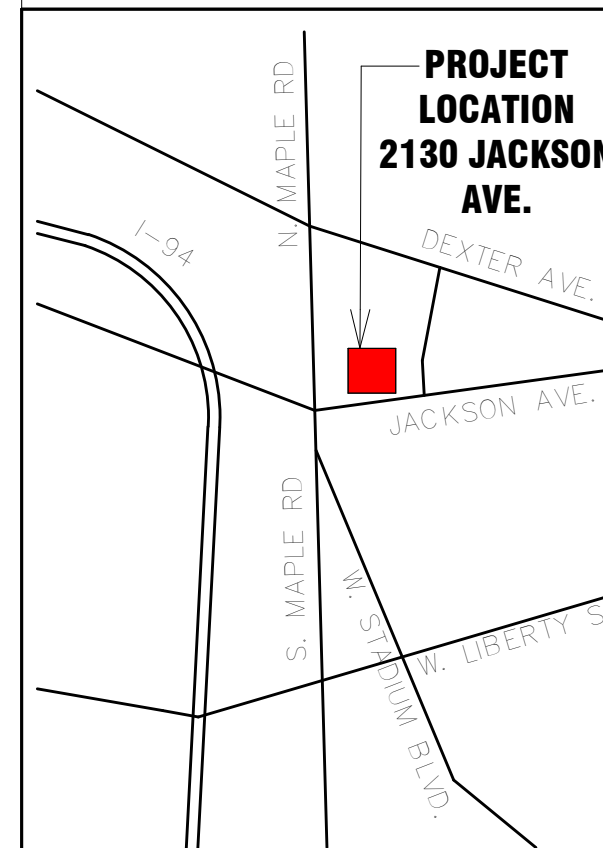
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DESIGNED ---	
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APPROVED ---	



PROJECT TITLE

CITY OF ANN ARBOR

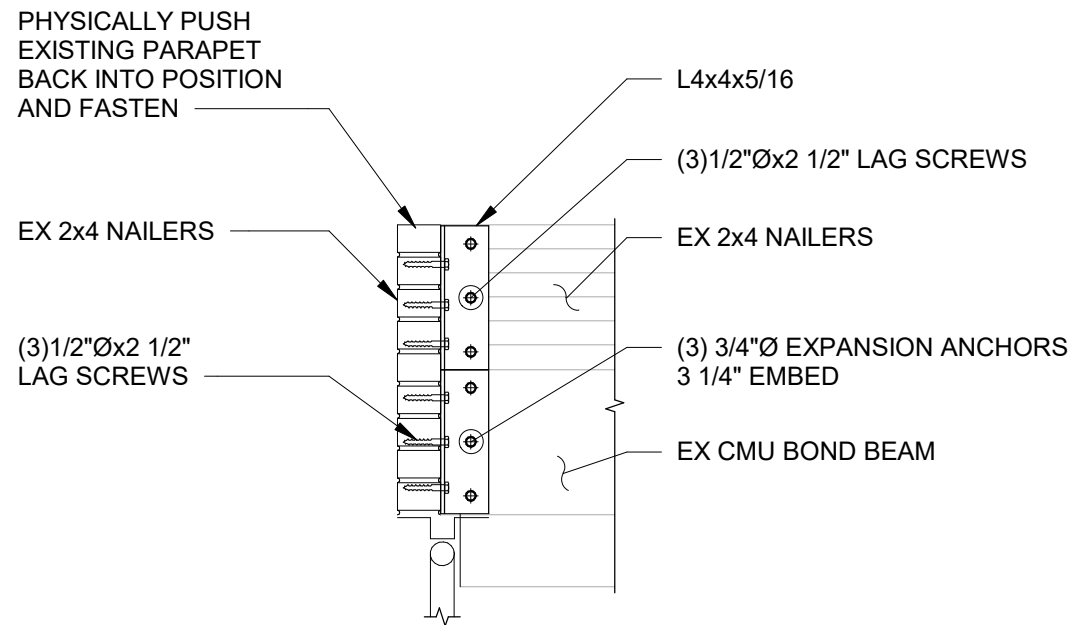
FIRE STATION NO. 3

EMERGENCY REPAIR

SHEET TITLE

EXISTING DRAWINGS

HRC JOB NO. 20260330	SCALE
DATE May 2026	SHEET NO. EX.103 _{OF}



NOTE: REINSTALL FLASHING AND CAP WHEN DONE.
INSTALL BACKER ROD AND CAULK FASCIA.





Southwest Corner of Upper Roof – Note Ponding Areas Due to Storm Damage



Southwest Corner of Upper Roof



North Drain at Upper Roof



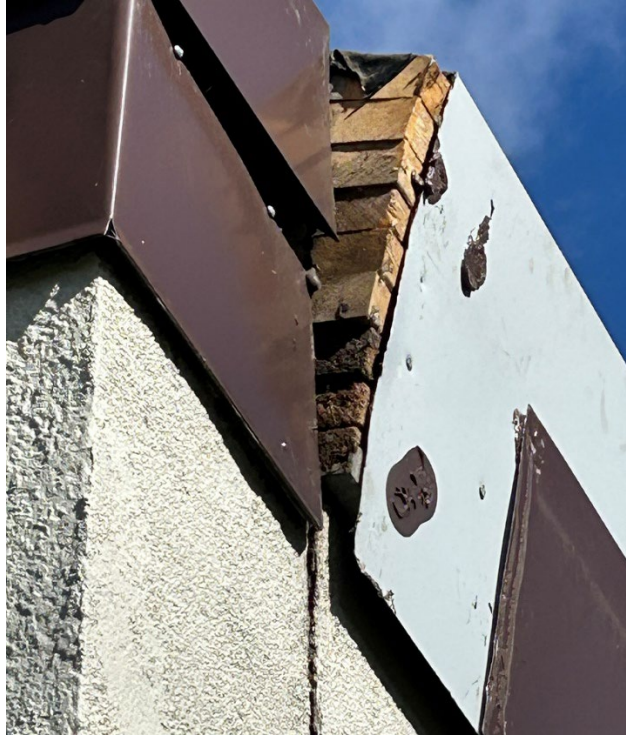
North Drain and Chimney at Upper Roof



North Section of Upper Roof – Note Excessive Ponding, Must Be Addressed



Existing Tectum Deck at Interior – Note Existing Fasteners to be Carefully Removed



Leaning Section of Parapet at Southeast Side of Lower Roof To Be Addressed



Cut Through at Leaning Parapet at Southeast Side of Lower Roof