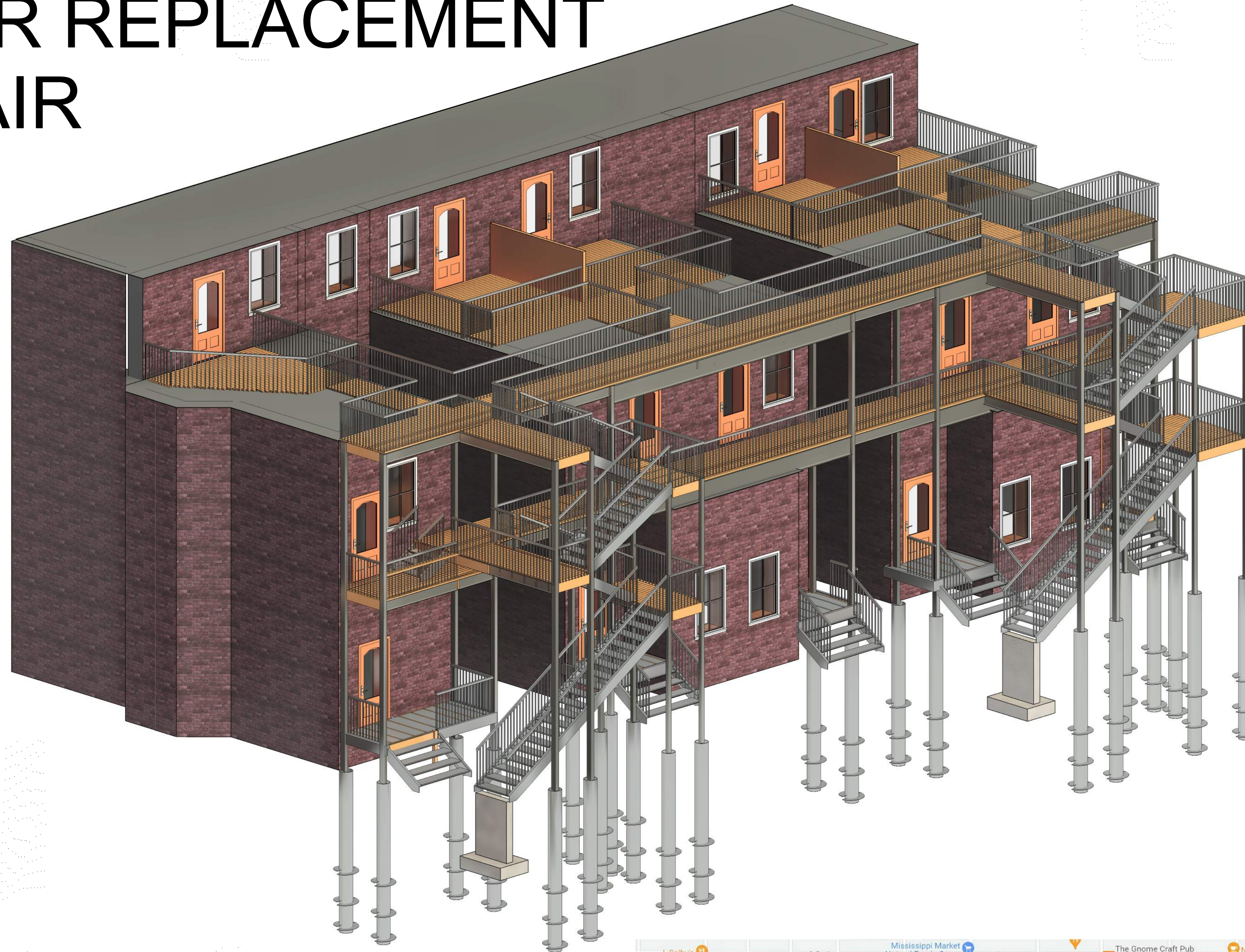


2022 EGRESS STAIR REPLACEMENT AND FACADE REPAIR

BROWNSTONES OF SUMMIT
596-604 SUMMIT AVE.
ST. PAUL, MN

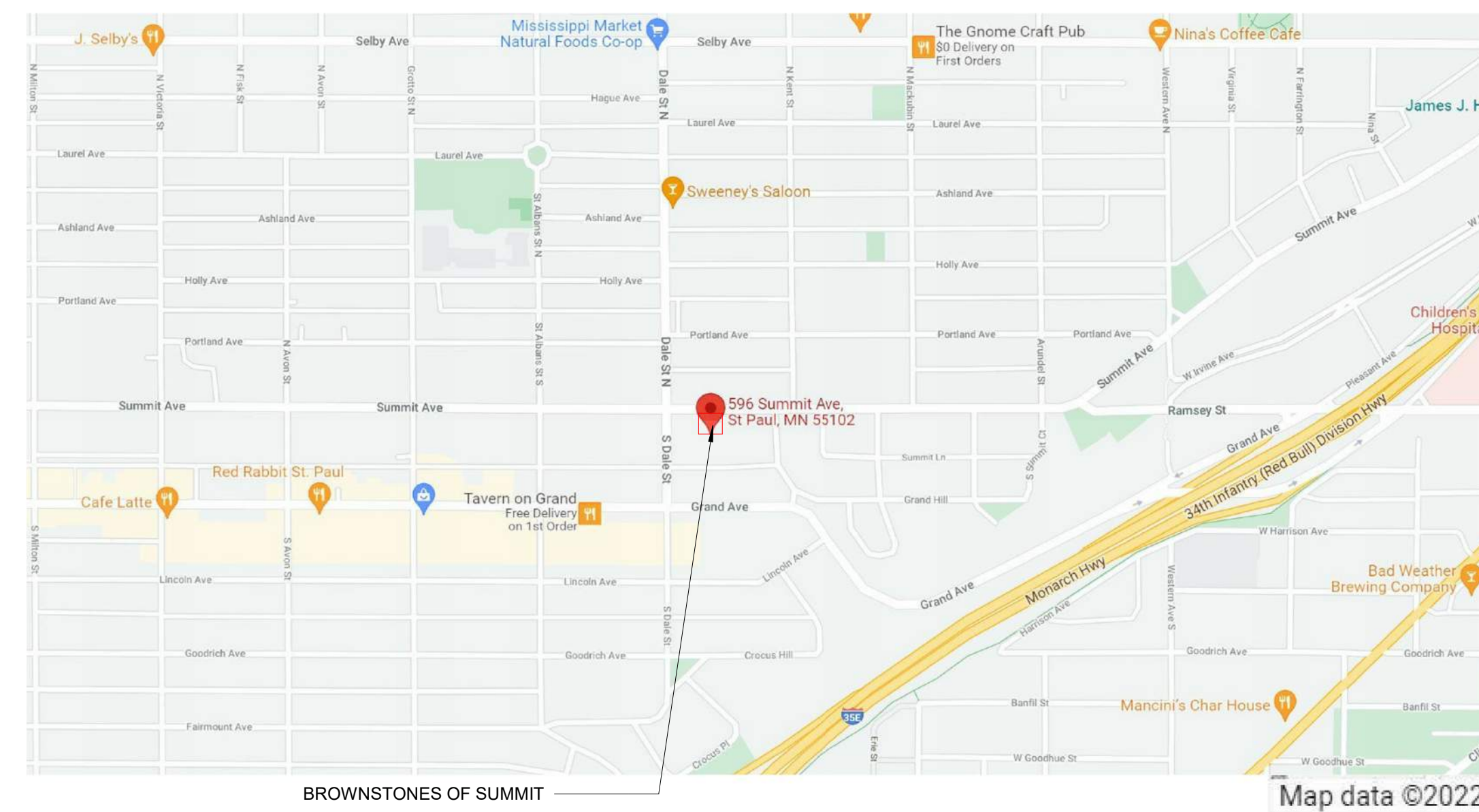


ARCHITECTURAL DRAWING INDEX	
Sheet Number	Sheet Name
A1.0	ROOF PLAN
A1.1	ELEVATIONS
A2.1	FACADE DETAILS
A2.2	FACADE DETAILS

STRUCTURAL DRAWING INDEX	
Sheet Number	Sheet Name
S0.1	GENERAL NOTES
S0.2	SPECIAL INSPECTIONS
S0.3	SCHEDULES
S1.1	FOUNDATION PLAN
S2.1	FRAMING PLAN - LEVEL 2
S2.2	FRAMING PLAN - LEVEL 3
S4.1	FOUNDATION DETAILS
S5.2	FRAMING DETAILS

DRAWINGS SYMBOLS

	CONCRETE		SECTION NUMBER SHEET NUMBER
	FACE BRICK		SECTION NUMBER SHEET NUMBER
	CONCRETE BLOCK		ELEVATION NUMBER SHEET NUMBER
	WOOD BLOCKING		REVISION CLOUD
	EARTH/COMPACT FILL		DRAWING NAME
	STEEL		DRAWING SCALE
	WELDED WIRE FABRIC		DRAWING NUMBER
	STEPPED GRADE BEAM LOCATION		
	JOIST BOT. CHORD EXTENSION		
	JOIST BOLTED CONNECTION PER OSHA REQUIREMENTS		
	BEAM SPLICE LOCATION		
	BEAM MOMENT CONNECTION		
	ELEVATION OR WORK POINT		



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CONSULTANTS:

CERTIFICATION:
I hereby certify that this drawing was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Signature: *Anne Crisp*
Name: Anne Crisp
Date: 10/17/2022
Registration Number: 47126

Project Number: 21-7861-000
Date: 10/14/2022
Drawn: JPS
Checked: AMC
Scale: 12" = 1'-0"

REVISIONS:

PROJECT:
BROWNSTONES ON SUMMIT - EGRESS REPLACEMENT
596-604 SUMMIT AVE.
ST PAUL, MN

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
0.0
SHEET 1 OF 1

BID SET 10/17/2022

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Project Number: 21-7861-000
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REVISIONS:

PROJECT:
 BROWNSTONES ON SUMMIT -
 EGRESS REPLACEMENT

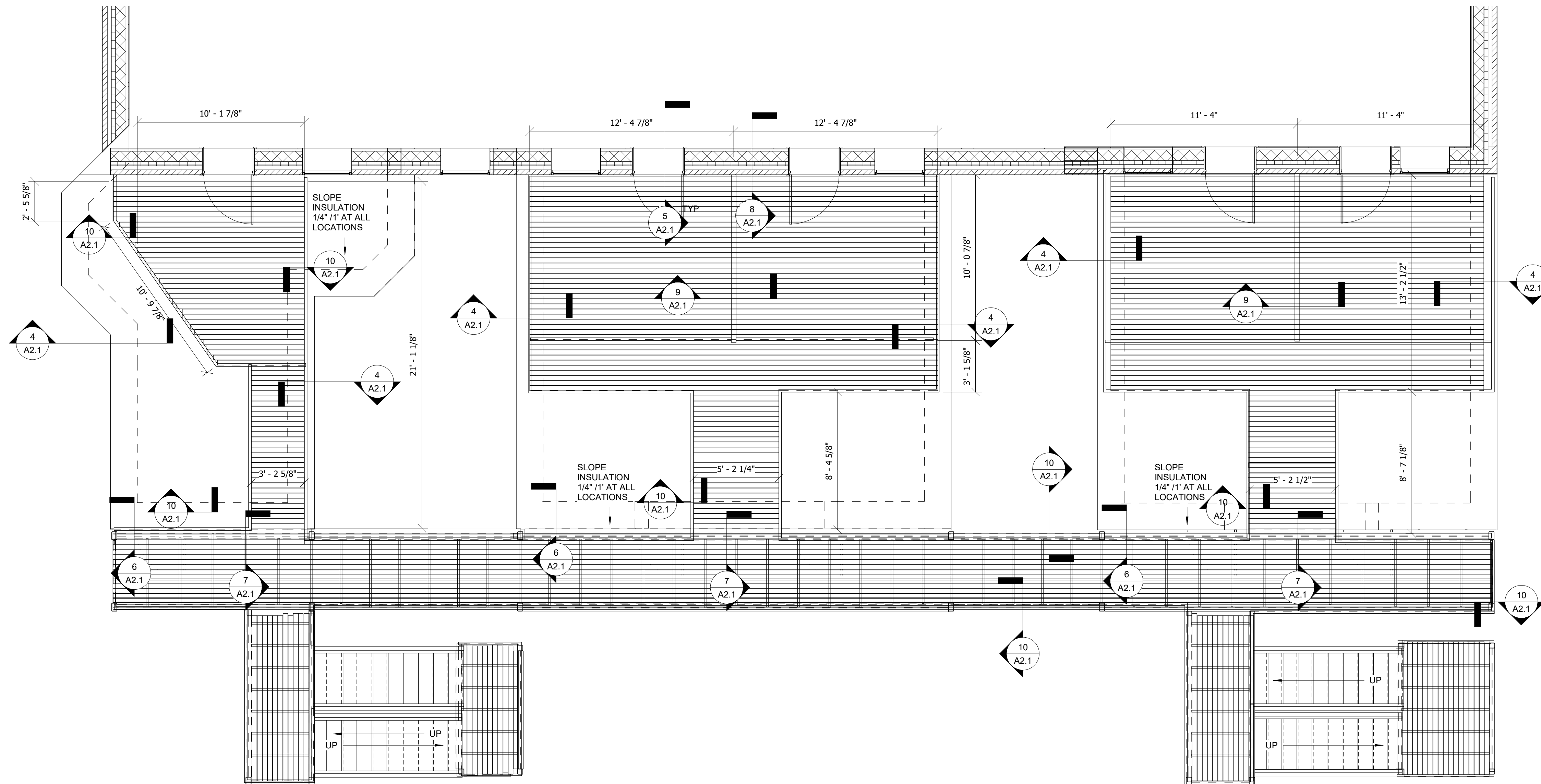
596-604 SUMMIT AVE.
 ST PAUL, MN

SHEET TITLE:
 ROOF PLAN

SHEET NUMBER:

A1.0

SHEET 1 OF 4



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

ROOF PLAN NOTES:

1. SLEEPERS WILL VARY IN DEPTH. TAPERING MAY BE REQUIRED. DEPTHS TO BE FIELD VERIFIED & COORDINATED w/ EXISTING DOOR THRESHOLD ELEVATIONS AND INSULATION THICKNESSES. MAX SPACING OF SLEEPERS TO BE 16" O.C.
2. FIELD VERIFY ALL DIMENSIONS.
3. CONTACT ENGINEER IF INSULATION HEIGHT WILL INTERFERE w/ DOOR THRESHOLD OR OTHER EXISTING ARCHITECTURAL ELEMENTS.
4. SEE A2.1 FOR TYPICAL DECK DETAILS.

CONSULTANTS:

CERTIFICATION:

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Signature _____
 Name _____
 Date _____
 Registration Number _____

Project Number: 21-7861-000
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 Checked: AMC
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REVISIONS:

PROJECT:
 BROWNSTONES ON SUMMIT -
 EGRESS REPLACEMENT

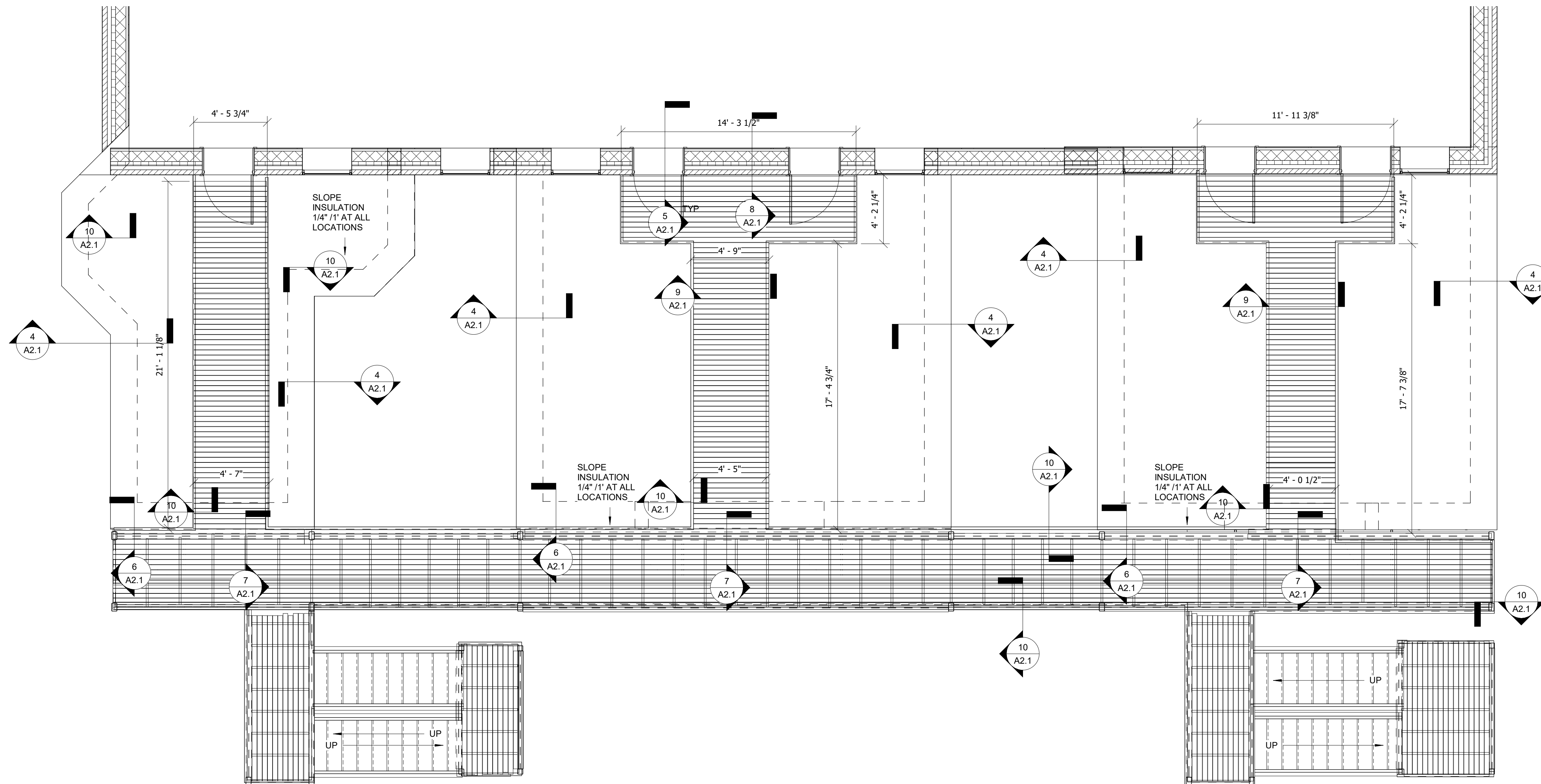
596-604 SUMMIT AVE.
 ST PAUL, MN

SHEET TITLE:
 ROOF PLAN ALTERNATE

SHEET NUMBER:

A1.0

SHEET 1 OF 4



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

ROOF PLAN NOTES:

1. SLEEPERS WILL VARY IN DEPTH. TAPERING MAY BE REQUIRED. DEPTHS TO BE FIELD VERIFIED & COORDINATED w/ EXISTING DOOR THRESHOLD ELEVATIONS AND INSULATION THICKNESSES. MAX SPACING OF SLEEPERS TO BE 16" O.C.
2. FIELD VERIFY ALL DIMENSIONS.
3. CONTACT ENGINEER IF INSULATION HEIGHT WILL INTERFERE w/ DOOR THRESHOLD OR OTHER EXISTING ARCHITECTURAL ELEMENTS.
4. SEE A2.1 FOR TYPICAL DECK DETAILS.

CONSULTANTS:

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Signature _____
 Name _____
 Date _____
 Registration Number _____

Project Number: 21-7861-000

Date: 10/14/2022

Drawn: JPS

Checked: AMC

Scale: As indicated

REVISIONS:

PROJECT:

BROWNSTONES ON SUMMIT -
 EGRESS REPLACEMENT

596-604 SUMMIT AVE.
 ST PAUL, MN

SHEET TITLE:

ELEVATIONS

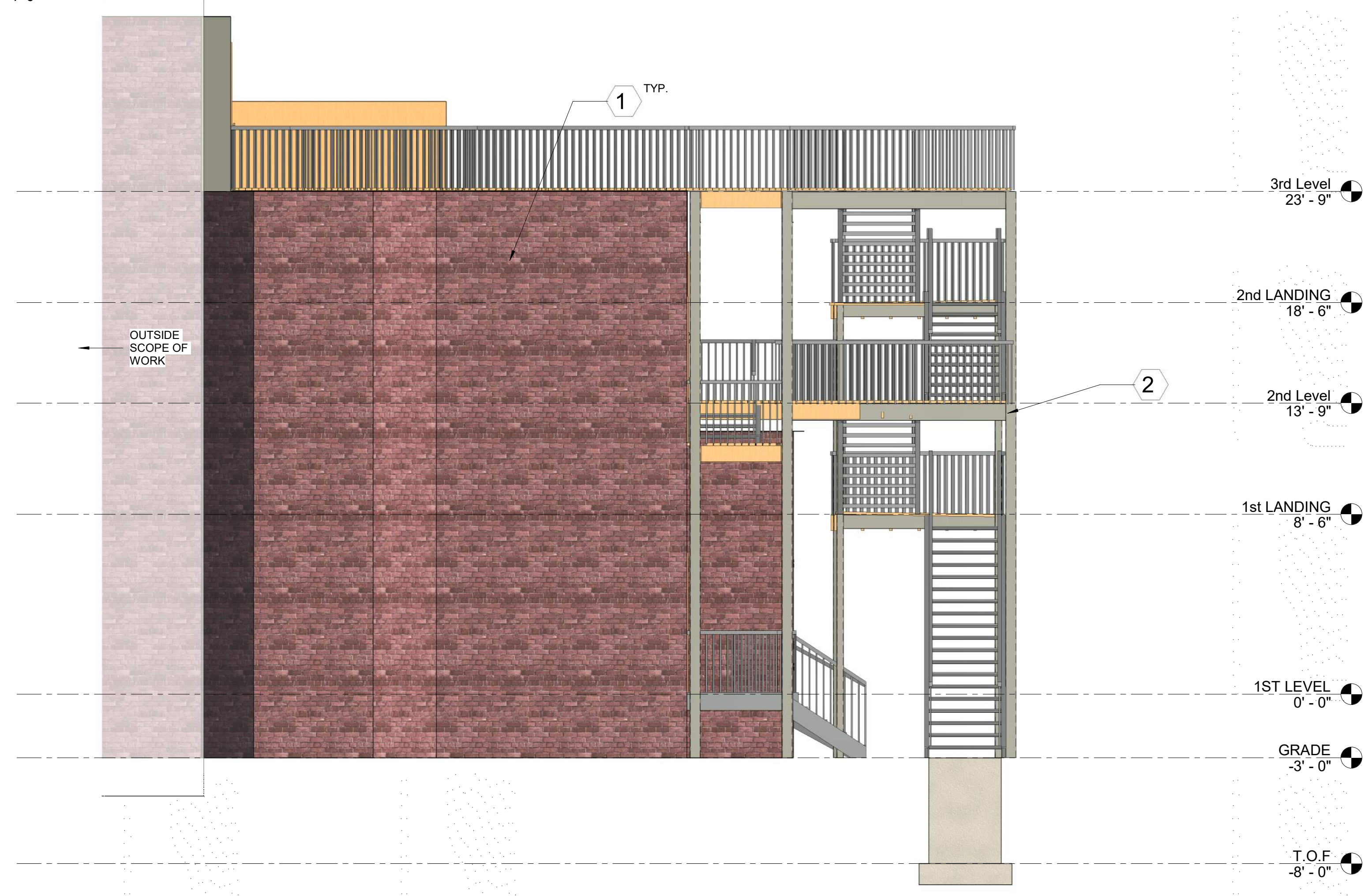
SHEET NUMBER:

A1.1

SHEET 2 OF 4

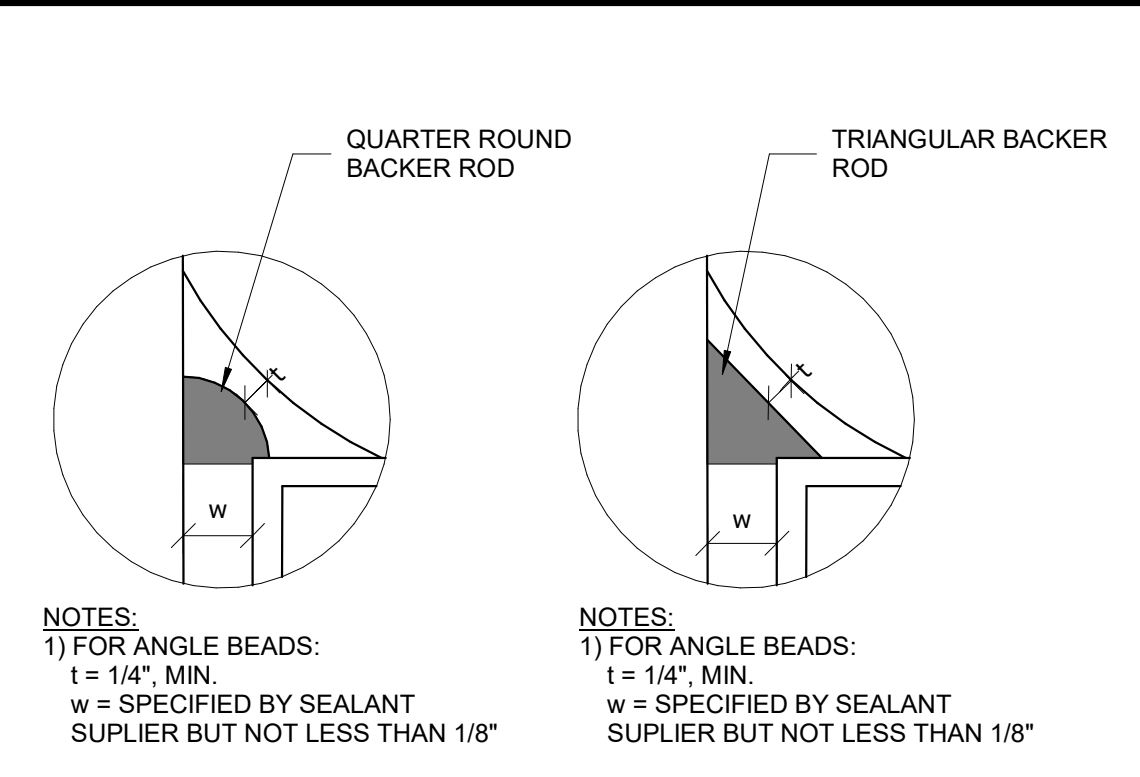
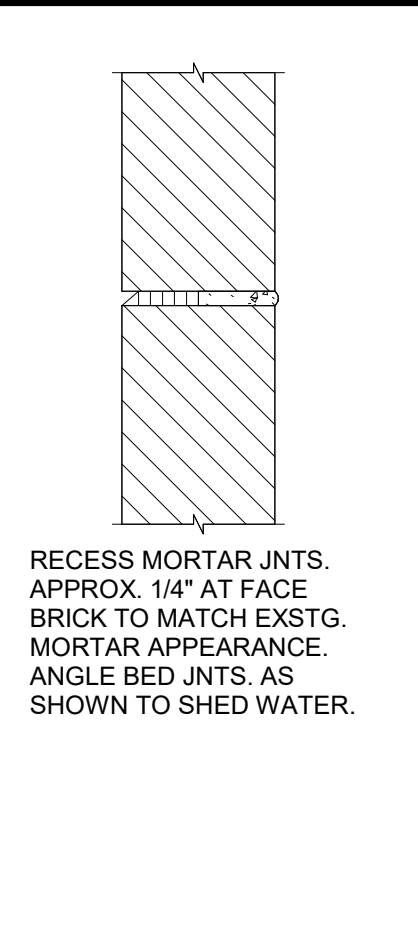
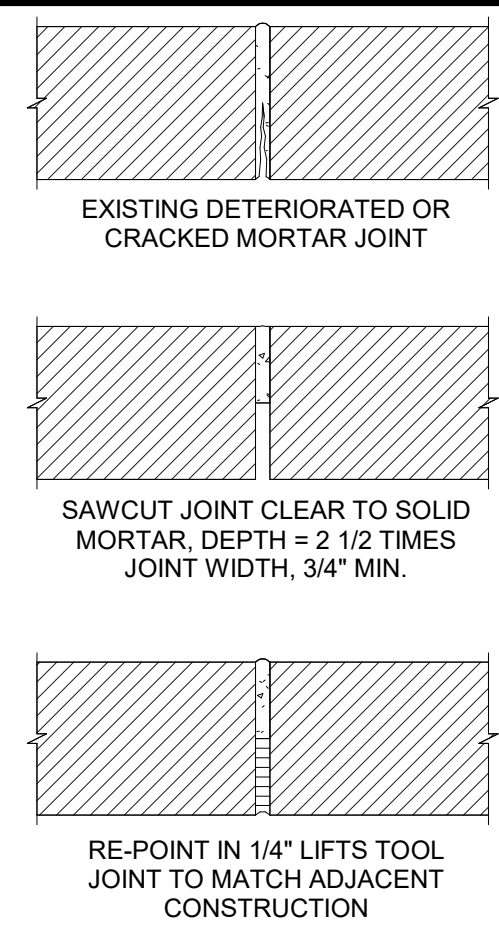


① SOUTH ELEVATION
 1/4" = 1'-0"

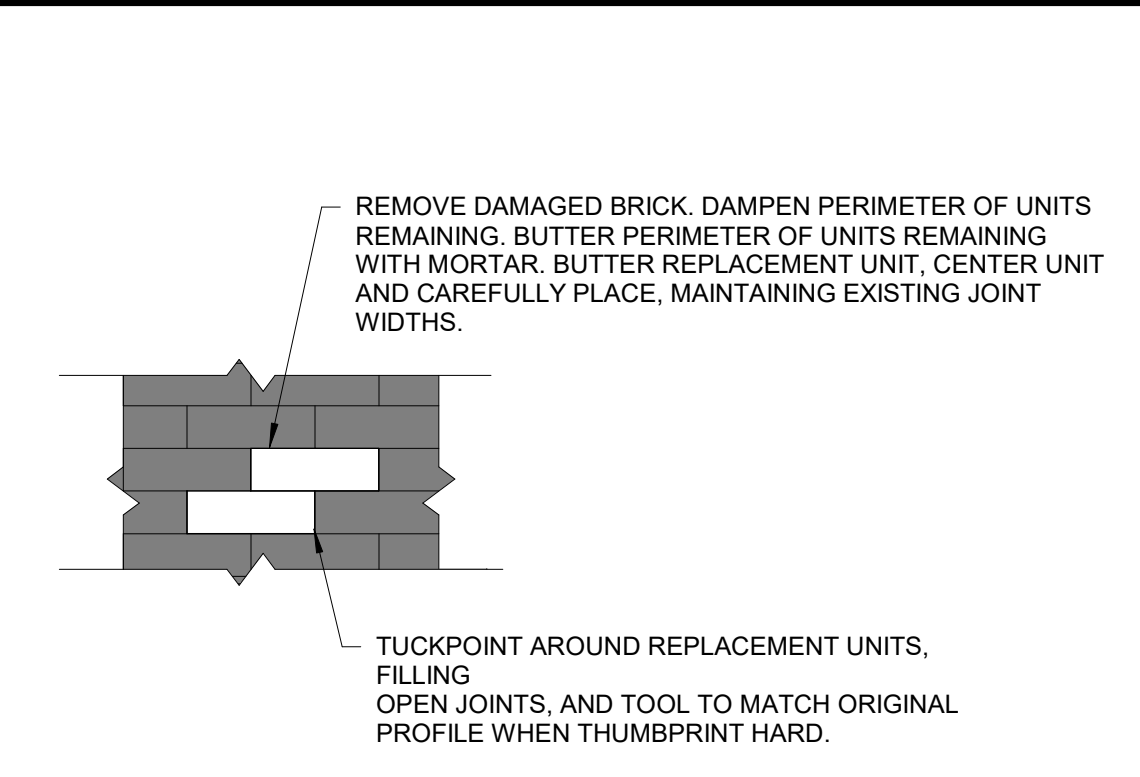


② WEST ELEVATION
 1/4" = 1'-0"

- FACADE REPAIR NOTES:**
1. REMOVE PAINT AND PERFORM INDIVIDUAL BRICK REPLACEMENT & TUCKPOINTING WHERE DIRECTED BY ENGINEER. SEE 01 10 00 SUMMARY & SHEETS A2.1 & A2.2 FOR ADDITIONAL INFORMATION.
 2. REMOVE EXISTING DECK STRUCTURE. INSTALL NEW DECK STRUCTURE PER STRUCTURAL DWGS.
 3. REMOVE & REPLACE ROOF MEMBRANE. REPAIR PARAPETS AS REQUIRED AT ROOF EDGES.
 4. DEMO EXISTING & INSTALL NEW STOOPS PER STRUCTURAL.
 5. SEE 4/A2.2 FOR DOWNSPOUT & CATCH BASIN INFORMATION.
 6. FASCIA BOARDS NOT SHOWN. SEE SHEET SS.1.

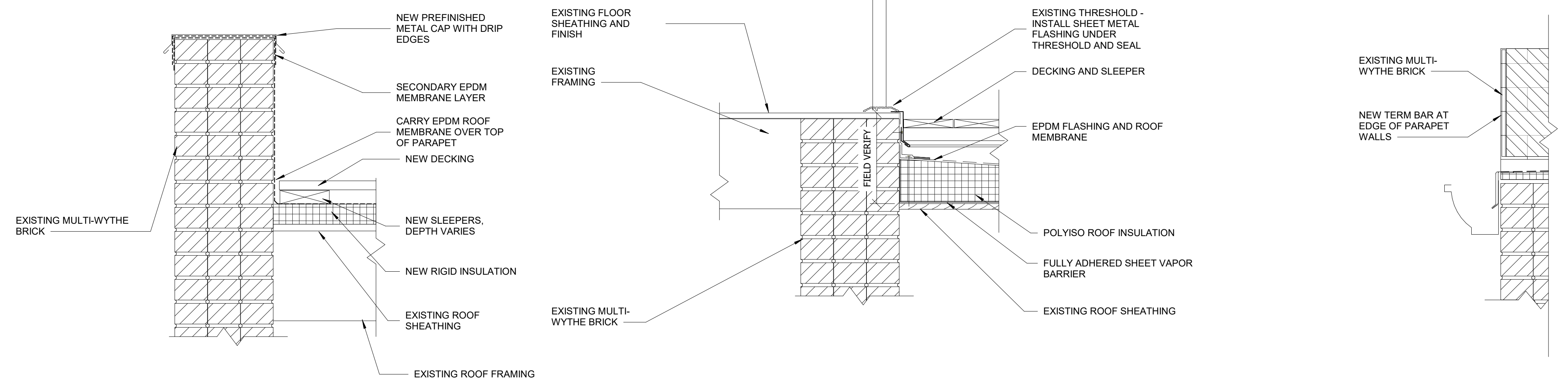


2 TYPICAL SEALANT JOINT PROFILES
12" = 1'-0"



3 BRICK REPLACEMENT
1" = 1'-0"

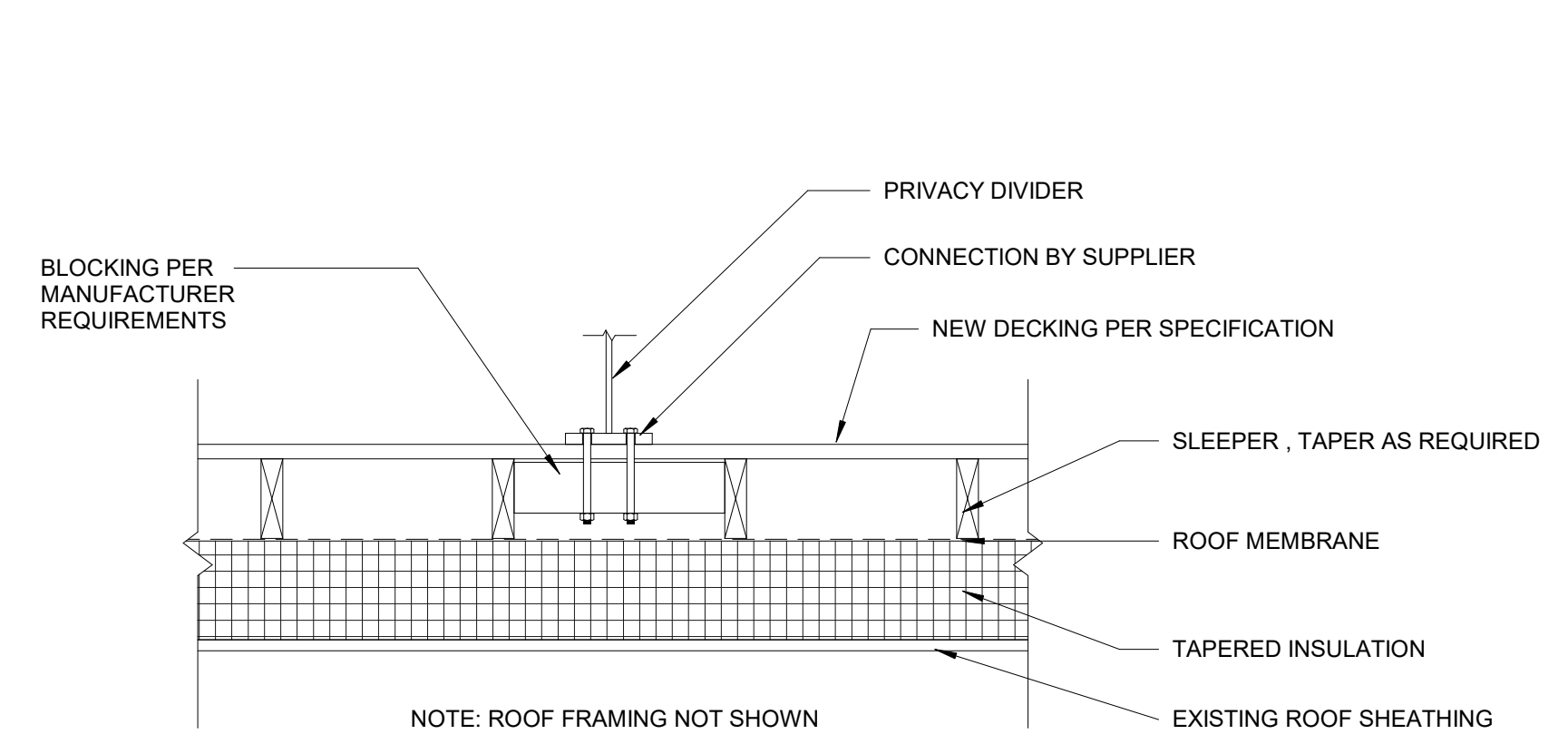
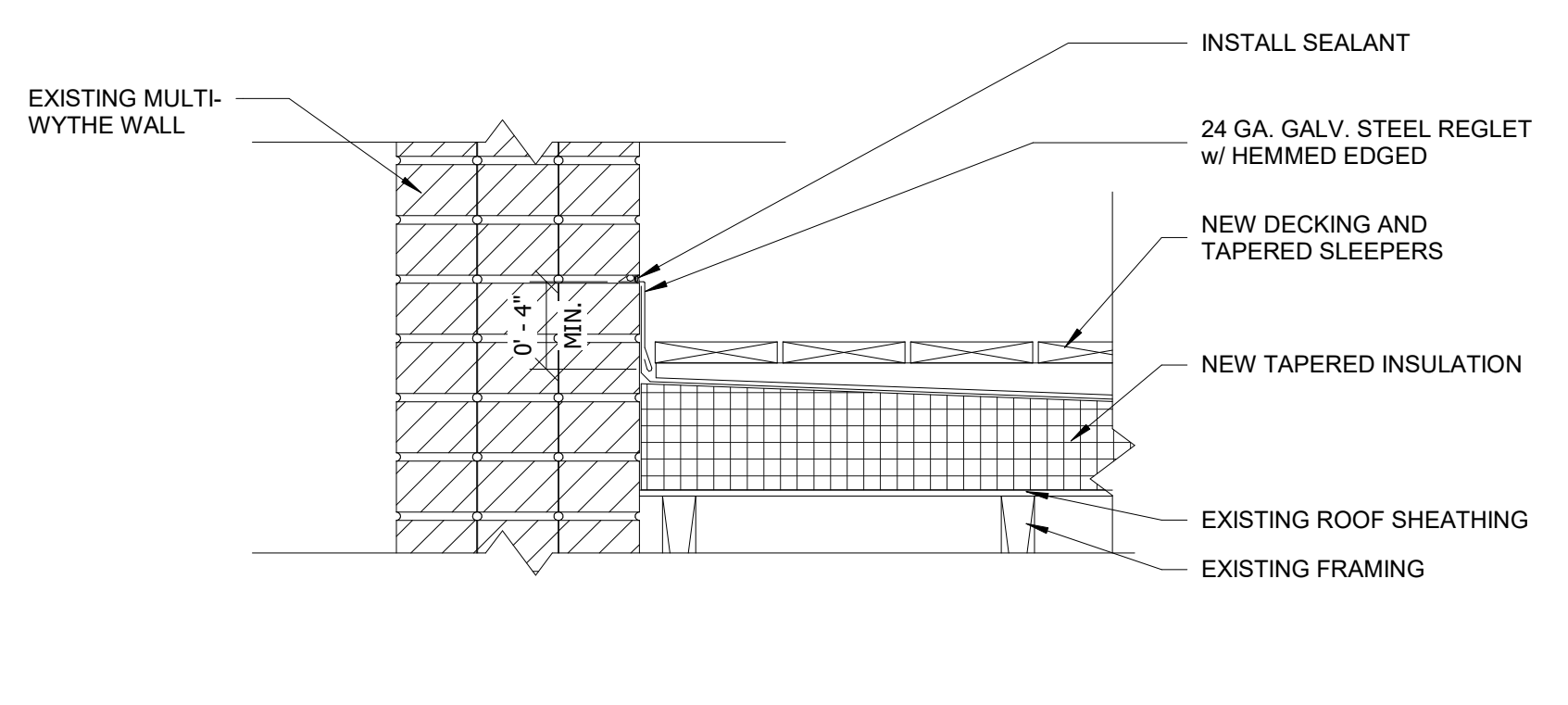
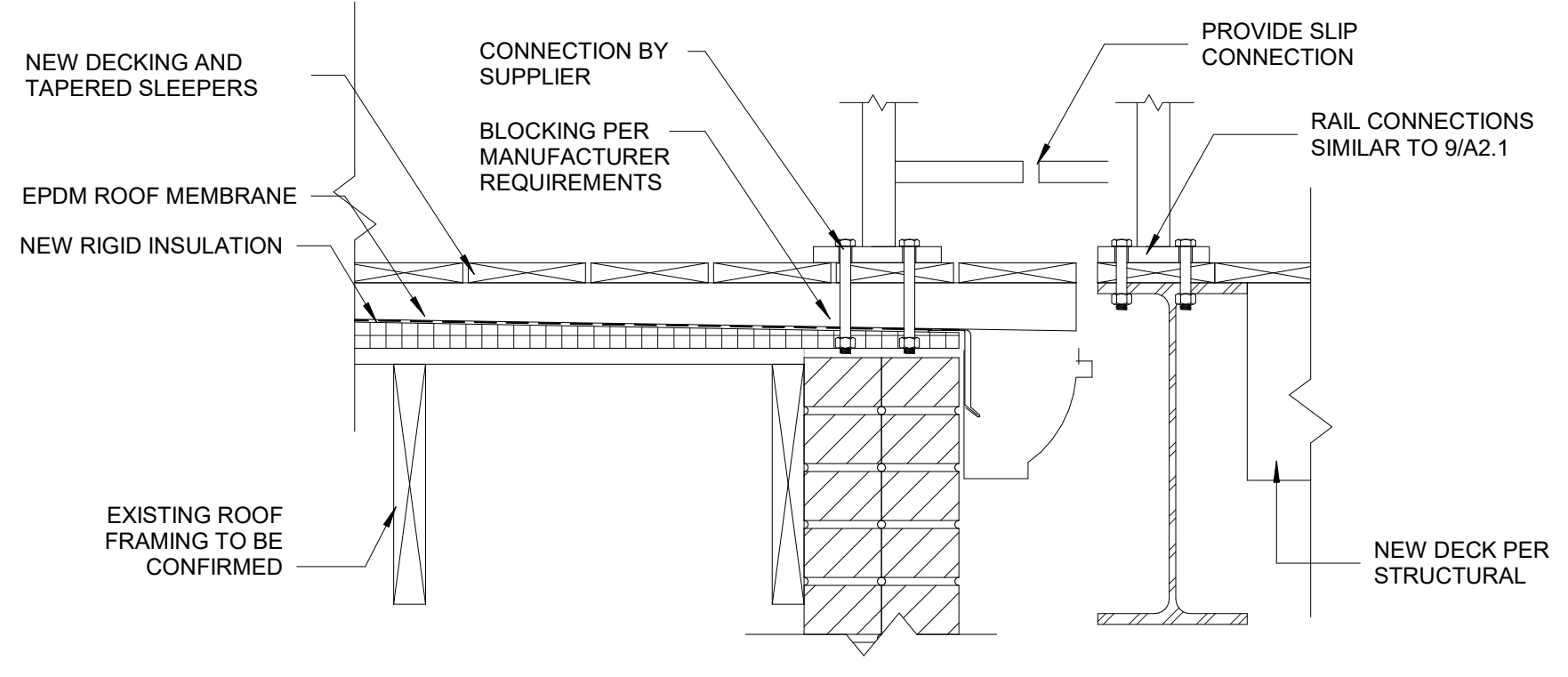
1 TUCKPOINTING DETAIL
1 1/2" = 1'-0"



4 ROOFING MEMBRANE DETAIL
1 1/2" = 1'-0"

5 DOOR THRESHOLD
1 1/2" = 1'-0"

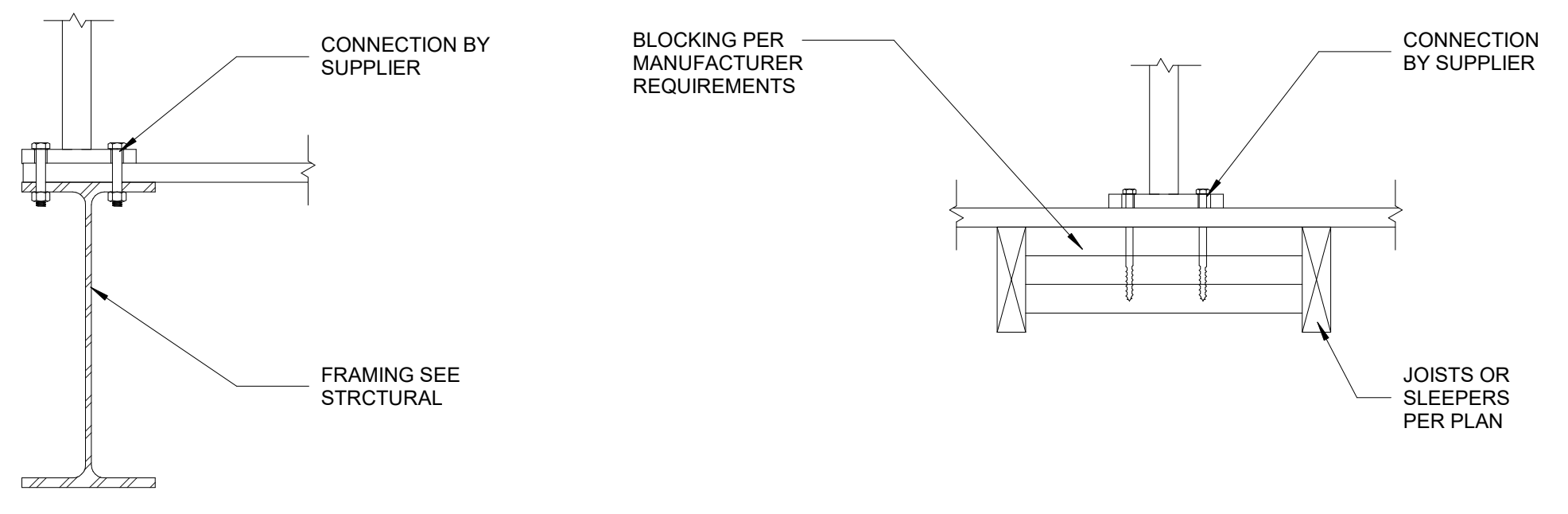
6 ROOFING MEMBRANE DETAIL
1 1/2" = 1'-0"



7 ROOFING MEMBRANE DETAIL
1 1/2" = 1'-0"

8 ROOFING MEMBRANE DETAIL
1 1/2" = 1'-0"

9 DIVIDER WALL
1" = 1'-0"



10 RAILING ATTACHMENT
1 1/2" = 1'-0"



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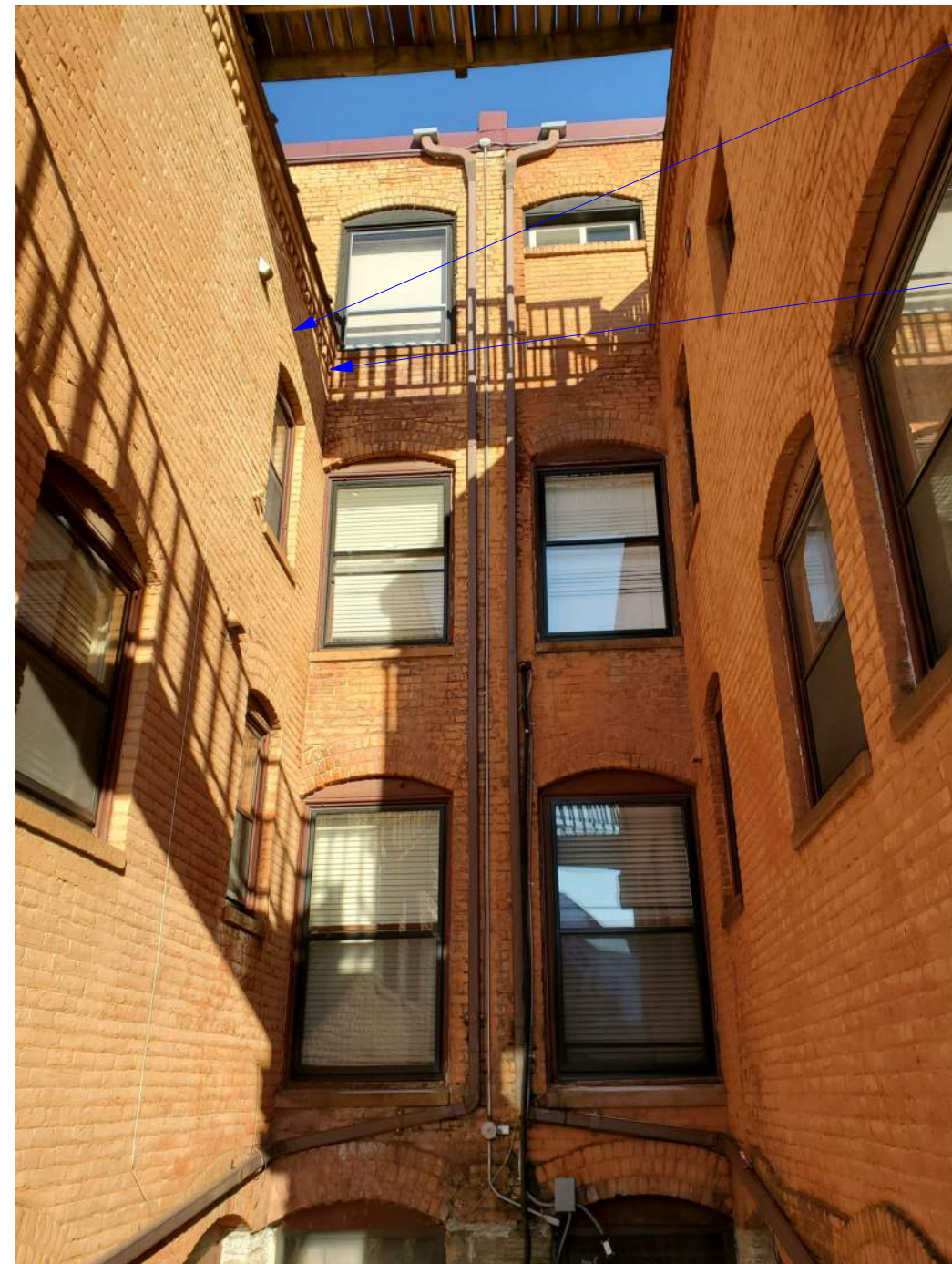
REVISIONS:

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BROWNSTONES ON SUMMIT -
EGRESS REPLACEMENT

596-604 SUMMIT AVE.
ST PAUL, MN

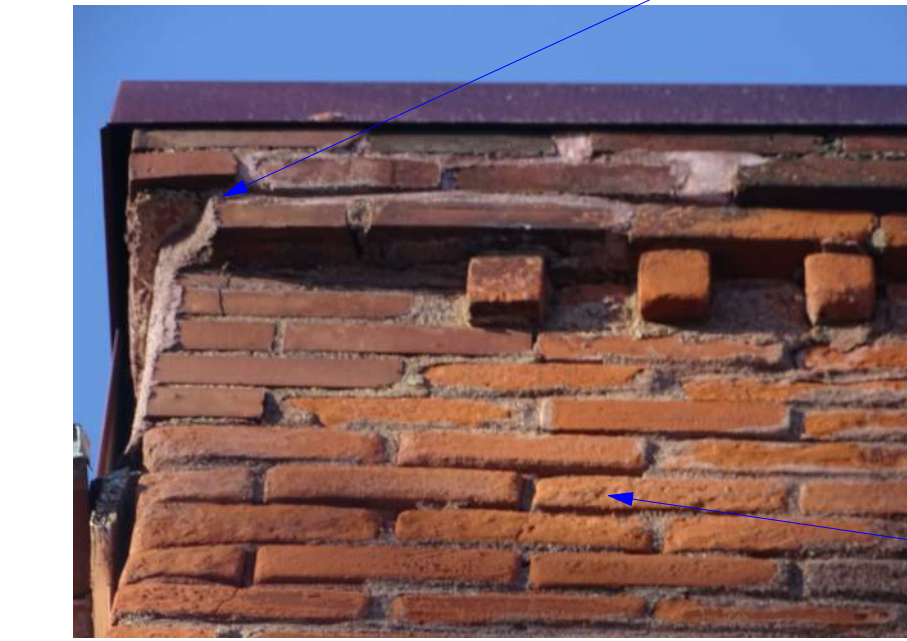
SHEET TITLE:
FACADE DETAILS

SHEET NUMBER:
A2.1
SHEET 3 OF 4



BRICK REPLACEMENT PER SPECIFICATIONS LIMITED TO PARAPET AREAS AND WHERE DECK IS TO BE REPLACED

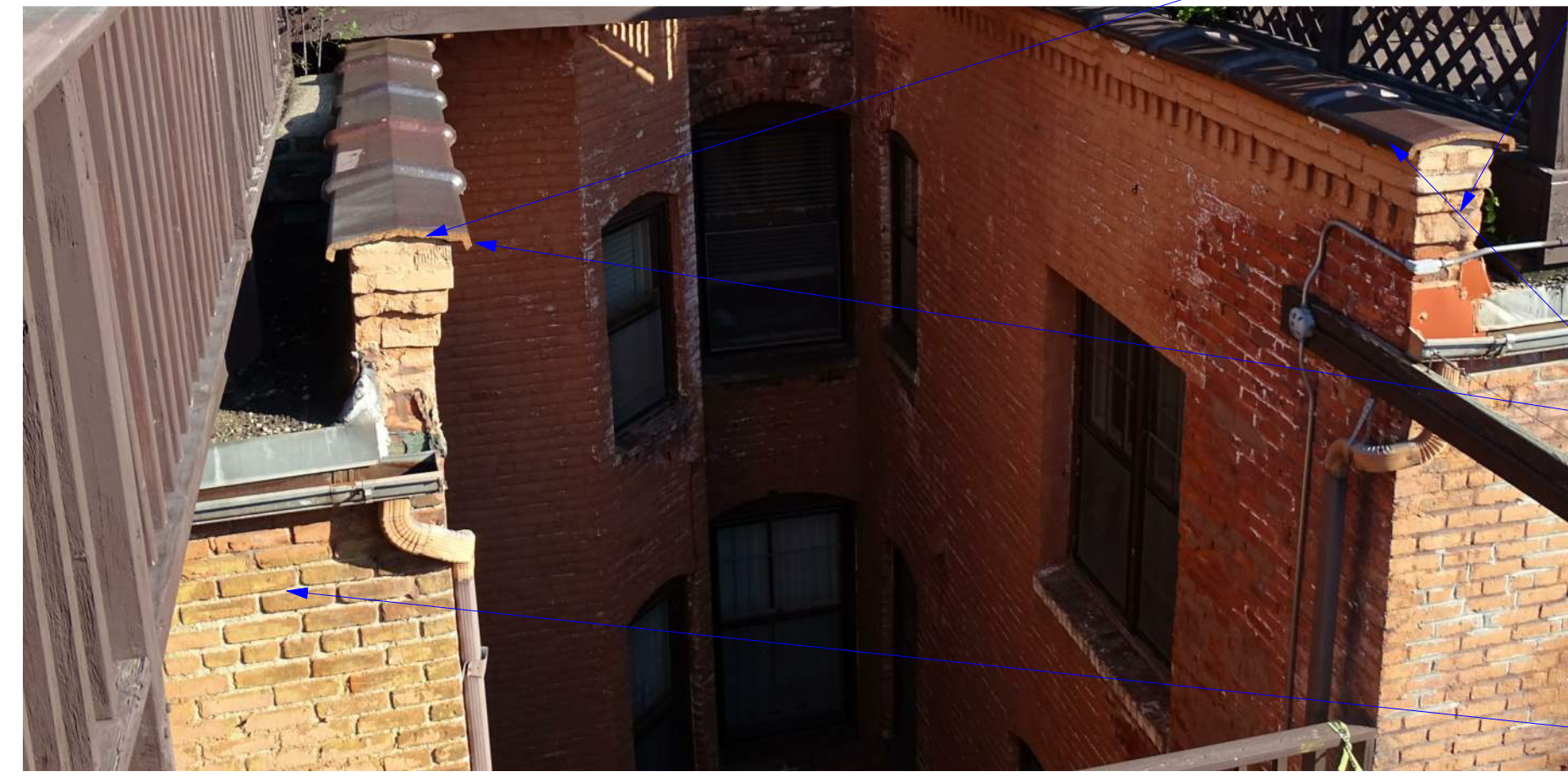
TUCKPOINTING PER SPECIFICATIONS LIMITED TO PARAPET AND WHERE DECK IS TO BE REPLACED



② FACADE REPAIRS
3/4" = 1'-0"

BRICK REPLACEMENT PER SPECIFICATIONS LIMITED TO PARAPET AREAS AND WHERE DECK IS TO BE REPLACED

TUCKPOINTING PER SPECIFICATIONS LIMITED TO PARAPET AREAS AND WHERE DECK IS TO BE REPLACED



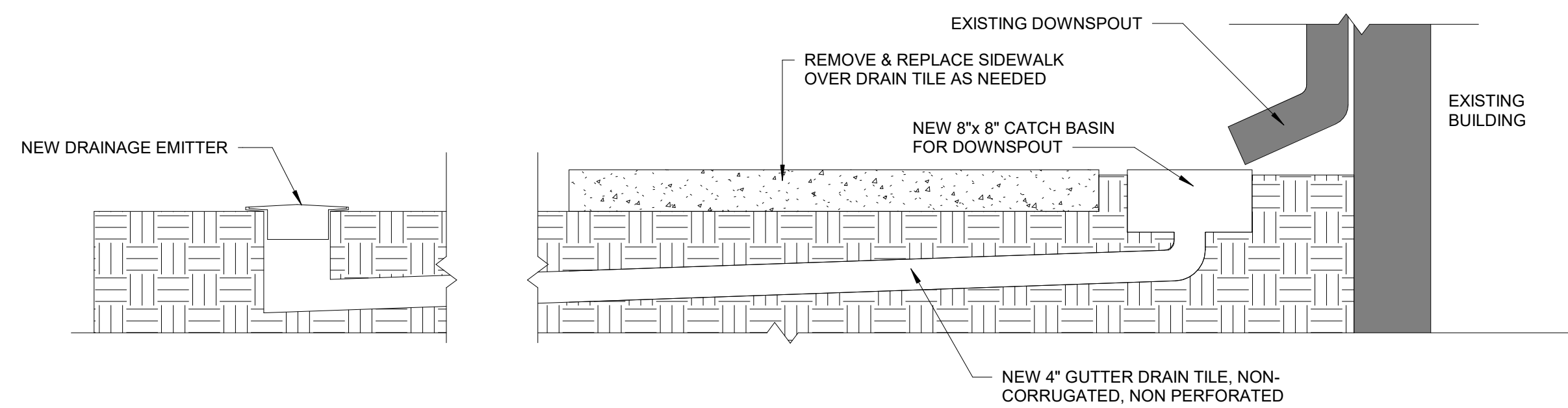
BRICK REPLACEMENT PER SPECIFICATIONS LIMITED TO PARAPET AREAS AND WHERE DECK IS TO BE REPLACED

PARAPET CAP TO BE REPLACED

TUCKPOINTING PER SPECIFICATIONS LIMITED TO PARAPET AREAS AND WHERE DECK IS TO BE REPLACED

③ FACADE REPAIRS
3/4" = 1'-0"

① FACADE REPAIRS
3/4" = 1'-0"



④ DRAINAGE DETAIL
1" = 1'-0"

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REVISIONS:

PROJECT:
BROWNSTONES ON SUMMIT -
EGRESS REPLACEMENT

596-604 SUMMIT AVE.
ST PAUL, MN

SHEET TITLE:
FACADE DETAILS

SHEET NUMBER:

A2.2

SHEET 4 OF 4

THESE GENERAL STRUCTURAL NOTES ARE GIVEN AS MINIMUM REQUIREMENTS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

- 1. BUILDING CODE:**
- A. MINNESOTA STATE BUILDING CODE 2020 BASED ON INTERNATIONAL BUILDING CODE 2018 EDITION WITH MINNESOTA AMENDMENTS.
- B. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- 2. DESIGN LOADS:**
- C. BUILDING CATEGORY II
- D. DEAD LOAD 12.0 PSF
- E. LIVE LOAD 100 PSF PUBLIC AREAS, 60 PSF PRIVATE AREAS
- F. ROOF UNIFORM LIVE LOAD 20 PSF
- G. HANDRAIL ASSEMBLIES AND GUARDRAIL SYSTEMS:
LOAD AT TOP RAIL (ANY DIRECTION) 50 PLF
SINGLE CONCENTRATED AT TOP RAIL 200#
HORIZONTAL LOAD ON INTERMEDIATE RAILS, BALUSTERS AND PANEL FILLERS 50#
- H. UNIFORM SNOW LOAD 42 PSF
(INCREASED AT AREAS OF ACCUMULATION)
Ce 1.0
Ct 1.1
Is 1.0
Cs 1.0
Pg 50 PSF
- I. WIND SPEED 109 MPH
(DESIGNED AS HAVING A HEIGHT OF 60' OR LESS)
ENCLOSURE CLASSIFICATION = OPEN BUILDING
EXPOSURE C I_w=1.0
- J. SEISMIC DESIGN (MINNESOTA) EXEMPT
- K. LATERAL SOIL PRESSURE AT FOUNDATION WALLS 50 PCF
(EQUIVALENT FLUID PRESSURE, AT REST PRESSURED)
- 3. DEFLECTION CRITERIA**
- A. ROOF SLOPES LESS THAN 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL SHALL BE STRUCTURALLY INVESTIGATED FOR PONDING INSTABILITY DUE TO PROGRESSIVE DEFLECTION.
- 4. QUALITY OF WORK AND MATERIALS**
- A. CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, CODE COMPLIANCE AND GENERAL CONSTRUCTION INTEGRITY.
1. ALL WORK AND MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES, AND LABOR LAWS, AND SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED STANDARDS OF GOOD PRACTICE.
2. ALL INSPECTIONS AND TESTING SHALL MEET THE MINIMUM REQUIREMENTS STATED EITHER HERE, IN THE BUILDING CODE, OR AS REQUIRED BY THE BUILDING OFFICIAL WHICHEVER IS MORE RESTRICTIVE. THE CONTRACTOR SHALL VERIFY THE INSPECTION REQUIREMENTS WITH THE BUILDING OFFICIAL DURING THE BUILDING PERMIT DOCUMENT REVIEW.
3. THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED AGAINST WIND, LATERAL SOIL PRESSURE AND CONSTRUCTION LOADS DURING CONSTRUCTION. STRUCTURAL MEMBERS ARE DESIGNED FOR "IN PLACE" LOADS.
- B. PRODUCTS SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR BEST RESULTS.
- C. SUBSTITUTION OF SPECIFIED STRUCTURAL ITEMS SHALL BE DONE ONLY AFTER APPROVAL ACCORDING TO THE FOLLOWING:
1. VERIFICATION OF SPECIFIED STRUCTURAL ITEMS AS "APPROVED EQUAL" SHALL COME FROM ONLY ENCOMPASS, INC.
2. ALTERNATES THAT ARE NOT SHOWN ON THE DRAWINGS MAY BE SUBMITTED FOR REVIEW PROVIDED THEY ARE SUBMITTED WITH SPECIFICATIONS, DRAWINGS (AND CALCULATIONS FOR STRUCTURAL ITEMS). THE SUBMITTAL MUST SHOW THE EQUIVALENCY OF THE ALTERNATE TO THE GIVEN ITEM. ALL ALTERNATES USED MUST HAVE BEEN ACCEPTED IN WRITING BY ENCOMPASS, INC. PRIOR TO USE.
3. ITEMS INDICATED AS EITHER OPTIONAL (OPT.) OR ALTERNATE (ALT.) SHALL BE BID SEPARATELY AND SO NOTED. REFER TO CONTRACTOR AND/OR OWNER FOR VERIFICATION OF ALL MATERIALS NOT SPECIFICALLY NOTED.
- 5. DOCUMENT COORDINATION & VERIFICATION OF EXISTING CONDITIONS:**
- A. EXAMINE THE EXISTING BUILDING DOCUMENTS AND ALL OTHER DOCUMENTS TO DETERMINE THE LOCATION AND DIMENSIONS OF ANY OTHER OPENINGS, SLEEVES, DEPRESSIONS AND/OR OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- B. BEFORE FABRICATION AND ERECTION OF ANY MATERIALS, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS, AND CONDITIONS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO ENCOMPASS, INC. FOR RESOLUTION.
- C. THE CONTRACTOR SHALL EXAMINE THE SITE TO DETERMINE LOCATION AND DIMENSIONS OF ANY PROJECT CONDITIONS OR REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- D. "VERIFY" OR "FIELD VERIFY" ON THESE DOCUMENTS REFERS TO THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- 6. LIMITS OF DESIGN RESPONSIBILITY:**
- A. LIMITS OF DESIGN RESPONSIBILITY ARE FOR THE STRUCTURES SHOWN WITHIN THESE DOCUMENTS ONLY.
- B. THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SAFETY MEASURES.
- C. THE STRUCTURAL DESIGN IS BASED ON THE STRUCTURE IN ITS COMPLETED STATE. CONTRACTORS/SUBCONTRACTORS SHALL TAKE REQUIRED PRECAUTIONS TO WITHSTAND HORIZONTAL AND VERTICAL LOADS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION PRIOR TO COMPLETION OF THE BUILDING.
- 7. CONSTRUCTION SEQUENCE:**
- A. THE CONSTRUCTION SEQUENCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- B. THE STRUCTURE SHALL BE ERECTED IN SUCH A MANNER THAT IT WILL NOT IMPOSE LOADS OR STRESSES GREATER THAN THE STRUCTURAL ELEMENTS WOULD SUPPORT IN THE COMPLETED STRUCTURE.
- 8. FUTURE EXPANSION:**
- A. THIS PROJECT IS NOT DESIGNED FOR FUTURE EXPANSION.

- 9. INSPECTIONS AND TESTING:**
- A. ALL INSPECTIONS AND TESTING SHALL MEET THE MINIMUM REQUIREMENTS STATED EITHER HERE, IN THE BUILDING CODE, OR AS REQUIRED BY THE BUILDING OFFICIAL, WHICHEVER IS MORE RESTRICTIVE.
- B. THE CONTRACTOR SHALL VERIFY THE INSPECTION REQUIREMENTS WITH THE BUILDING OFFICIAL DURING THE BUILDING PERMIT DOCUMENT REVIEW.
- C. SPECIAL INSPECTIONS SHALL BE PROVIDED BY AN INDEPENDENT TESTING AGENCY BY PERSONNEL QUALIFIED FOR THE TYPE OF INSPECTION AS NOTED.
- D. REFER TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE AND THE AMENDMENTS OF THE STATE OF THE PROJECT FOR SPECIFIC DEFINITIONS OF TERMS, SECTIONS AND ABBREVIATIONS AS STATED HEREIN.
- I. STRUCTURAL STEEL CONSTRUCTION - SEE AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SECTION N.
- HIGH-STRENGTH BOLTING, BEARING FILLET WELDS 5/16" OR LESS PERIODIC
FRAMING AND CONNECTION GENERAL COMPLIANCE PERIODIC PERIODIC
- II. CONCRETE CONSTRUCTION, IBC TABLE 1705.3
- REINFORCING STEEL SIZE, SPACING AND PLACEMENT PERIODIC
VERIFY USE OF DESIGN MIX CONTINUOUS
SLUMP, AIR, TEMPERATURE PERIODIC
CONCRETE CURING PERIODIC
STRENGTH TESTING (CYLINDER BREAKS) PERIODIC
POST INSTALLED ANCHORS CONTINUOUS
- III. WOOD CONSTRUCTION - SEE IBC SECTION 1704.2.5.
- IV. SOILS/EARTHWORK, IBC TABLE 1705.6
- VERIFY EXCAVATIONS PERIODIC
VERIFY SOILS BELOW FILL PERIODIC
VERIFY FILL MATERIALS AND PLACEMENT CONTINUOUS
TEST FILL COMPACTION PERIODIC
VERIFY SOILS BELOW FOOTINGS PERIODIC
- 10. FOUNDATIONS AND SITE WORK:**
- A. GEOTECHNICAL REPORT
1. FOUNDATIONS, RETAINING & BASEMENT WALLS, FOUNDATION DRAINAGE, SLABS ON GRADE & OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED BASED ON THE INFORMATION LISTED BELOW. PRIOR TO CONSTRUCTION A QUALIFIED SOILS ENGINEER FAMILIAR WITH THE SITE AND PROJECT MUST VERIFY THE SOILS ARE CAPABLE OF WITHSTANDING THE INDICATED BEARING PRESSURES.
- I. DESIGN NET SOIL BEARING CAPACITY IS AS FOLLOWS:
- a. SPREAD FOOTINGS 2500 PSF
b. STRIP FOOTINGS 2500 PSF
- II. MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF BUILDING PERIMETER FOOTINGS SHALL BE 5'-0". ALL OPEN AIR FOUNDATIONS HAVE A MINIMUM OF 5'-0" FROST PROTECTION.
- 11. CONCRETE (DIVISION 3)**
- A. CONCRETE DESIGN STRENGTH, MAXIMUM W/CM RATIOS, EXPOSURE CATEGORIES:
- | | MINIMUM DESIGN STRENGTH PSI | MAX w/cm RATIO | FREEZE THAW | SULFATE | WATER CONTACT | REINFORCING CORROSION PROTECTION |
|--------------------------|-----------------------------|----------------|-------------|---------|---------------|----------------------------------|
| I FOOTINGS | 3500 | 0.55 | F0 | S0 | W0 | C1 |
| II CONCRETE UNO | 4000 | 0.45 | | | | |
| III EXTERIOR PLAIN SLABS | 4500 | 0.45 | | | | |
- B. MATERIALS AND PROPORTIONS USED IN THE CONCRETE MIX DESIGN SHALL MEET THE REQUIREMENTS OF ACI 318 CODE FOR REINFORCED CONCRETE DESIGN AND CONSTRUCTION USING ACI 318 LATEST PUBLISHED EDITION.
- C. ALL REINFORCING SHALL BE DETAILED, FABRICATED & PLACED IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
- D. CALCIUM CHLORIDE IS NOT PERMITTED AS A CONCRETE ADDITIVE.
- E. ALL ADMIXTURES SHALL BE ACCEPTED IN WRITING BY ENCOMPASS, INC. PRIOR TO USE IN ANY CONCRETE.
- F. VIBRATE CONCRETE DURING PLACEMENT AS NECESSARY TO ENCAPSULATE REINFORCING STEEL AND PREVENT AGGREGATE SEGREGATION.
- G. CONCRETE EXPOSED TO FREEZING AND THAWING SHALL BE AIR ENTRAINED 6% +/- 1%.
- H. CONCRETE SHALL BE PROTECTED FROM HIGH TEMPERATURES, SUN AND WIND BY THE USE OF CURING COMPOUNDS, POLY COVERS, WATER SPRAY OR SOME OTHER ACCEPTABLE MEANS OF PROTECTION.
- J. CONCRETE COVER TO REINFORCING BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
1. SURFACES CAST AGAINST THE EARTH: 3"
2. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: #6 OR LARGER 2"
#5 OR SMALLER 1-1/2"
- L. THE FOLLOWING THREE CRITERIA ESTABLISH THE REQUIRED MINIMUM SAMPLING FREQUENCY FOR EACH CLASS OF CONCRETE:
1. ONCE EACH DAY A GIVEN CLASS IS PLACED, NOR LESS THAN
2. ONCE FOR EACH 150 CU YD OF EACH CLASS PLACED EACH DAY, NOR LESS THAN
3. ONCE FOR EACH 5000 SQ FT OF SLAB OR WALL SURFACE AREA PLACED EACH DAY, ON A GIVEN PROJECT.
4. IF TOTAL VOLUME OF CONCRETE IS SUCH THAT FREQUENCY OF TESTING REQUIRED WOULD PROVIDE LESS THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, TESTS SHALL BE MADE FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED.

- 12. CONCRETE REINFORCING (DIVISION 3):**
- A. REINFORCEMENT
1. REINFORCEMENT Fy = 60,000 PSI ASTM A615
2. WELDABLE REINFORCEMENT Fy = 60,000 PSI ASTM A706
3. WELDED WIRE FABRIC Fy = 65,000 PSI ASTM A185
- B. ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL, LATEST EDITION.
- C. REINFORCING STEEL SHALL BE NEW DEFORMED BARS OR WELDED WIRE FABRIC.
- D. WHERE REINFORCING BARS ARE SHOWN CONTINUOUS, PROVIDE CLASS B TENSION LAP SPLICES (12" MINIMUM) EXCEPT WHERE NOTED OR DETAILED OTHERWISE. STAGGER LAPS IN SLABS AND WALLS.
- E. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT INTERSECTIONS OF FOOTINGS, WALLS, BOND BEAMS.
- F. VERIFY ALL EMBEDDED REINFORCING PRIOR TO PLACING CONCRETE. REINFORCING SHALL BE PROPERLY CHAIRED AND TIED IN PLACE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.
- G. ALL CHAIRS, SLAB BOLSTERS AND SUPPORT BARS SHALL BE PLASTIC OR EPOXY COATED OR MADE FROM NON-CORRODING MATERIALS.
- H. ALL EMBEDDED ELECTRICAL CONDUITS AND BOXES SHALL BE PLASTIC OR APPROVED NON-CORRODING MATERIAL.
- I. ALL EMBEDDED ITEMS SUCH AS PLATES, ANGLES, HEADED STUDS, ANCHOR BOLTS STUD RAILS, ETC. SHALL BE EPOXY COATED OR GALVANIZED.
- J. GALVANIZING SHALL CONFORM TO ASTM A123.
- K. EPOXY COATING SHALL CONFORM TO ASTM A775 FOR REINFORCING BARS AND ASTM A884 FOR WELDED WIRE FABRIC.
- 13. POST-INSTALLED ANCHORS INTO CONCRETE**
- A. POST-INSTALLED MECHANICAL ANCHORS INTO CONCRETE SHALL BE ICC-ES APPROVED FOR USE IN CRACKED CONCRETE. ANCHORS SHALL BE TESTED IN ACCORDANCE WITH ICC-ES AC193. PRE-APPROVED ANCHORS INCLUDE:
1. HILTI KWIK BOLT TZ ICC-ES REPORT ESR-1917
2. HILTI HDA UNDERCUT ANCHOR ICC-ES REPORT ESR-1546
3. SIMPSON STRONG-BOLT ICC-ES REPORT ESR-1771
4. ITW RED HEAD TRUBOLT+ ICC-ES REPORT ESR-2427
- B. POST-INSTALLED ADHESIVE ANCHORS INTO CONCRETE SHALL BE ICC-ES APPROVED FOR USE IN CRACKED CONCRETE. ANCHORS SHALL BE TESTED IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ANCHORS INCLUDE:
1. HILTI HIT-RE 900-SD ICC-ES REPORT ESR-2322
2. SIMPSON SET-XP ICC-ES REPORT PENDING
- C. SEE THE STRUCTURAL DRAWINGS FOR SPECIFIC POST-INSTALLED ANCHOR REQUIREMENTS. SUBSTITUTIONS IN THE ABOVE LISTS SHALL BE SUBMITTED FOR REVIEW. SUBSTITUTIONS MUST HAVE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD BEFORE THEIR USE.
- D. REFER TO THE MANUFACTURER'S INFORMATION AND ICC-ES REPORTS FOR SPECIFIC INSTALLATION REQUIREMENTS & PROCEDURES.
- E. SEE STATEMENT OF STRUCTURAL INSPECTIONS ON DRAWINGS FOR ANCHOR INSPECTION REQUIREMENTS.
- 14. STRUCTURAL STEEL (DIVISION 5):**
- A. MATERIAL STRENGTH UNLESS NOTED ON PLAN:
1. STRUCTURAL SHAPES Fy = 36 KSI ASTM A36
2. WIDE FLANGE SECTIONS Fy = 50 KSI ASTM A992
3. BOLTS Fy = 74 KSI A325N
4. WELDING ELECTRODES Fy = 70 KSI A233
5. PLATES, ANGLES, ETC. Fy = 36 KSI ASTM A36
- B. LATEST AISC MANUAL AND SPECIFICATIONS APPLY.
- C. ALL WELDING AND TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS.
- D. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES IN THE TYPE OF WELDING CALLED FOR.
- E. FIELD CUTTING OR OTHER FIELD MODIFICATIONS TO STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT SPECIFIC PRIOR WRITTEN APPROVAL OF ENCOMPASS, INC.
- 15. WOOD FRAMING (DIVISION 6):**
- A. SEE SPECS
- 16. ROOFING (DIVISION 7):**
- A. SEE SPECS
- 17. SHEET METAL FLASHING AND TRIM (DIVISION 7):**
- A. SEE SPECS
- 18. JOINT PROTECTION (DIVISION 7):**
- A. SEE SPECS
- 19. MISCELLANEOUS:**
- NOTIFY ENCOMPASS, INC. IN WRITING OF ANY DISCREPANCIES



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CONSULTANTS:

CERTIFICATION:

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Signature *Anne Crisp*
Name Anne Crisp
Date 10/17/2022
Registration Number 47126

Project Number: 21-7861-000
Date: 10/14/2022
Drawn: JPS
Checked: AMC
Scale: As indicated

REVISIONS:

PROJECT:
BROWNSTONES ON SUMMIT -
EGRESS REPLACEMENT

596-604 SUMMIT AVE.
ST PAUL, MN

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
S0.1
SHEET 1 OF 9

STATEMENT OF SPECIAL INSPECTIONS

THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE "SPECIAL INSPECTIONS" DURING CONSTRUCTION...

THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A SCOPE OF SERVICES FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION...

THE SPECIAL INSPECTOR SHALL FOLLOW THE REPORT REQUIREMENTS OF IBC SECTION 1704.1.2.

THE SPECIAL INSPECTOR SHALL USE THE LATEST ISSUE OF THE STRUCTURAL RECORD DRAWINGS FOR THE INSPECTION OF THE STRUCTURE...

THE FOLLOWING LIST IDENTIFIES THE SECTIONS OF THE IBC WHICH APPLY TO THIS PROJECT. THE SPECIAL INSPECTOR SHALL ILLUSTRATE THEIR UNDERSTANDING...

IBC SECTION 1704.2.5 - INSPECTION OF FABRICATORS

SPECIAL INSPECTIONS OF FABRICATED ITEMS ARE REQUIRED WHEN STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES ARE BEING FABRICATED...

THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL...

SPECIAL INSPECTIONS SHALL NOT BE REQUIRED IF THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5.2.

STEEL CONSTRUCTION QUALITY CONTROL / QUALITY ASSURANCE

Table with columns: INSPECTION TASKS, QC, QA, INSPECTION TASKS, QC, QA. Contains various steel construction tasks like welding, bolting, and inspection procedures.

IBC TABLE 1705.8 - REQUIRED VERIFICATION AND SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION AND FOR OTHER THAN STRUCTURAL STEEL CONSTRUCTION

Table with columns: VERIFICATION AND INSPECTION TASK, CONTINUOUS DURING TASK LISTED, PERIODICALLY DURING TASK LISTED, REFERENCED STANDARD, IBC REFERENCE, YES, NO, N.A. Lists various steel inspection tasks.

SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE FOLLOWING CONCRETE STRUCTURE COMPONENTS:

- 1. SOIL SUPPORTED FOUNDATIONS OF BUILDINGS THAT ARE THREE (3) STORIES OR LESS ABOVE THE GRADE PLANE AND:
a. ARE ISOLATED CONCRETE SPREAD FOOTINGS. OR
b. STRIP OR TRENCH FOOTINGS SUPPORTING LIGHT FRAME CONSTRUCTION, OR
c. USE A FOOTING DESIGN BASED ON CONCRETE COMPRESSIVE STRENGTH (fc) 2,500 PSI...

IBC TABLE 1705.3 - REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

Table with columns: VERIFICATION AND INSPECTION TASK, CONTINUOUS DURING TASK LISTED, PERIODICALLY DURING TASK LISTED, REFERENCED STANDARD, IBC REFERENCE, YES, NO, N.A. Lists concrete construction inspection tasks.

STATEMENT OF TESTING

THE OWNER SHALL EMPLOY ONE OR MORE TESTING AGENCIES TO PROVIDE STRUCTURAL TESTING DURING CONSTRUCTION. THE MINIMUM STRUCTURAL TESTING - REQUIRED IN ACCORDANCE WITH THE IBC, SECTION 1704 - IS SUMMARIZED BELOW.

THE TESTING AGENCY SHALL SUBMIT A SCOPE OF SERVICES FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION. IN ADDITION, THE TESTING AGENCY SHALL SUBMIT QUALIFICATIONS ASSOCIATED WITH EACH TYPE OF TESTS THAT WILL BE PERFORMED...

SUMMARY OF REQUIRED STRUCTURAL TESTS

Summary table of structural tests with columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REFERENCED..., IBC REFERENCE, YES, NO, NA.

** WHEN DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD TO PROVIDE POST-INSTALLED ANCHORAGES THE FOLLOWING GUIDELINES SHALL BE FOLLOWED:

- 1. A REPRESENTATIVE OF THE ANCHOR MANUFACTURER OR PROJECT SPECIAL INSPECTOR SHALL BE ON SITE TO OVERSEE THE INSTALLATION OF THE FIRST FOUR ANCHORS FOR EACH TYPE OF ANCHOR INSTALLED...
2. THE FIRST FOUR ANCHORS SHALL BE TENSION TESTED ONCE INSTALLATION IS COMPLETE FOR 100% OF THE SERVICE LEVEL LOAD CAPACITY AS SPECIFIED BY THE STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL TESTING AND SPECIAL INSPECTION & STATEMENT OF SPECIAL INSPECTIONS

Form with sections: Project Name, Location, Owner, Statement of special inspections, Structural/Architectural/Other records, Acknowledgements, Legend, and Date.

REQUIRED STRUCTURAL SUBMITTALS

- 1. THE REVIEW OF THE FOLLOWING SUBMITTALS IS INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S (SEOR) SCOPE OF SERVICES. THE GENERAL CONTRACTOR SHALL PROVIDE THE ITEMS BELOW TO THE SEOR FOR REVIEW PRIOR TO CONSTRUCTION.
2. SHOP DRAWINGS SHALL BE ORIGINALS AND SHALL NOT BE CREATED, IN WHOLE OR IN PART, FROM THE ELECTRONIC STRUCTURAL CAD FILES OR REPRODUCTIONS OF THE STRUCTURAL DRAWINGS...

LIST OF STRUCTURAL SUBMITTALS

Table with columns: CATEGORY, ITEM, COMMENTS. Lists structural submittals like Grading Plan, Concrete Mix Designs, Structural Steel, etc.



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CONSULTANTS:

Empty table for listing consultants.

CERTIFICATION:

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Signature: Anne Crisp
Name: Anne Crisp
Date: 10/17/2022
Registration Number: 47126

Project Number: 21-7861-000
Date: 10/14/2022
Drawn: JPS
Checked: AMC
Scale: 1/2" = 1'-0"

REVISIONS:

Table for recording revisions.

PROJECT: BROWNSTONES ON SUMMIT - EGRESS REPLACEMENT

596-604 SUMMIT AVE.
ST PAUL, MN

SHEET TITLE: SPECIAL INSPECTIONS

SHEET NUMBER: S0.2

SHEET 2 OF 9

CAST IN PLACE CONCRETE WALL SCHEDULE						
MARK	NOMINAL THICKNESS	VERT. REINF.	VERT. BAR LOCATION	HORIZ. REINF. SPACING	VERT. BAR SPLICE / LAP	COMMENTS
CW1	8"	#5 @ 18 OC	CENTER	#5 @ 18 OC	CLASS B	PROVIDE (2) - \$5 CONT. HORIZ. AT TOP OF WALL

SCHEDULE NOTES:

- VERTICAL REINFORCING IS PRIMARY. WHEN INDICATED AS INSIDE FACE ABOVE, PLACE VERTICAL REINFORCING CLOSEST TO INSIDE (INTERIOR) FACE OF WALL AND HORIZONTAL REINFORCING BEHIND THAT. WHERE CENTERED IS INDICATED ABOVE, CENTER THE VERTICAL REINFORCING AND PLACE HORIZONTAL REINFORCING ON EITHER SIDE OF THE VERTICAL BARS.
- SEE SCHEDULES ON THIS SHEET FOR REBAR LAP SPLICES FOR COATED AND UNCOATED REBAR.

LAP SPLICE SCHEDULE (UNCOATED GRADE 60 BARS IN CONCRETE)									
BAR SIZE	CLASS 'A' TENSION LAP SPLICE								
	f _c (psi)								
	3,000	3,500	4,000	5,000	6,000	7,000	8,000	10,000	
#3	1'-5"	1'-4"	1'-3"	1'-1"	1'-0"	0'-11"	0'-11"	0'-9"	
#4	1'-10"	1'-9"	1'-7"	1'-5"	1'-4"	1'-3"	1'-2"	1'-0"	
#5	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	1'-7"	1'-5"	1'-3"	
#6	2'-9"	2'-7"	2'-5"	2'-2"	2'-0"	1'-10"	1'-9"	1'-6"	
#7	4'-1"	3'-9"	3'-6"	3'-2"	2'-11"	2'-8"	2'-6"	2'-3"	
#8	4'-7"	4'-3"	4'-0"	3'-7"	3'-3"	3'-0"	2'-10"	2'-6"	
#9	5'-2"	4'-10"	4'-6"	4'-1"	3'-8"	3'-5"	3'-3"	2'-10"	
#10	5'-9"	5'-4"	5'-0"	4'-6"	4'-1"	3'-9"	3'-7"	3'-2"	
#11	6'-4"	5'-11"	5'-6"	5'-0"	4'-6"	4'-2"	3'-11"	3'-6"	

BAR SIZE	CLASS 'B' TENSION LAP SPLICE								
	f _c (psi)								
	3,000	3,500	4,000	5,000	6,000	7,000	8,000	10,000	
#3	1'-10"	1'-8"	1'-7"	1'-5"	1'-4"	1'-3"	1'-2"	1'-0"	
#4	2'-5"	2'-3"	2'-1"	1'-11"	1'-9"	1'-7"	1'-6"	1'-4"	
#5	3'-0"	2'-10"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	
#6	3'-7"	3'-4"	3'-1"	2'-10"	2'-7"	2'-5"	2'-3"	2'-0"	
#7	5'-3"	4'-10"	4'-7"	4'-1"	3'-9"	3'-5"	3'-3"	2'-11"	
#8	6'-0"	5'-7"	5'-3"	4'-8"	4'-3"	3'-11"	3'-9"	3'-3"	
#9	6'-9"	6'-3"	5'-11"	5'-3"	3'-10"	4'-5"	4'-2"	3'-8"	
#10	7'-6"	6'-11"	6'-6"	5'-10"	5'-4"	4'-11"	4'-8"	4'-1"	
#11	8'-3"	7'-8"	7'-2"	6'-5"	5'-10"	5'-5"	5'-1"	4'-6"	

NOTES:

- THESE TABLES ARE BASED ON THE FOLLOWING ASSUMPTIONS:
 - CLEAR SPACING OF BARS $\geq db$
 - CLEAR COVER $\geq db$
 - STIRRUPS OR TIES PROVIDED THROUGHOUT DEVELOPMENT LENGTH CODE MIN \geq OR
 - CLEAR SPACE OF BARS $\geq 2db$
 - CLEAR COVER $\geq db$
- FOR OTHER CASES MULTIPLY LENGTHS SHOWN BY 1.5.
- FOR TOP BAR SPLICES, MULTIPLY LENGTHS SHOWN BY 1.3. TOP BARS ARE SUCH THAT 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE SPLICE OR DEVELOPMENT LENGTH.
- FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS SHOWN BY 1.3.
- FOR HIGHER GRADE STEEL MULTIPLY LENGTHS SHOWN BY A RATIO OF HIGHER $f_y(KSI)$ OVER 1160(KSI). ALL OTHR FACTORS LISTED STILL APPLY.
- FOR COMPRESSION LAP SPLICE USE $(.0009f_y-24)^*db$ OR $.0005(f_y)db$

CONTINUOUS FOUNDATION SCHEDULE				
MARK	FOOTING SIZE	CONTINUOUS REINFORCING	TRANSVERSE REINFORCING	COMMENTS
CF3.0	3'-0" x 12"	(3) - #5	#5 @ 12" o.c.	

BEAM SCHEDULE		
MARK	TYPE	COMMENTS
B1	W18X35	
B2	W10X12	
B3	W8X15	

STEEL COLUMN SCHEDULE	
MARK	SHAPE
C1	HSS64X41/4
C2	HSS44X41/4

WOOD COLUMN SCHEDULE				
MARK	SHAPE	POST BASE	ANCHOR BOLTS	COMMENTS
WC3	4x4			PSL TO BE FULLY ENCASED AND FLASHED AGAINST MOISTURE w/ METAL AND SELF ADHERED FLASHING. ALT STEEL: HSS7X5X1/4

COMPONENT	WOOD SPECIES	GRADE	MINIMUM DESIGN PROPERTIES (PSI)				REMARKS	
			E	F _b	F _v	FC		
			DIMENSIONAL LUMBER					
BEAMS	SOUTHERN PINE	NO. 1	1,700,000	1,850	175	1,850	565	JOISTS
POSTS	SOUTHERN PINE	NO. 1	1,700,000	1,850	175	1,850	565	LOWER LEVEL STEPS AS NEEDED



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Signature: *Anne Crisp*
 Name: Anne Crisp
 Date: 03/30/2022
 Registration Number: 47126

Project Number: 21-7861-000
 Date: 3/30/2022
 Drawn: JPS
 Checked: AMC
 Scale:

REVISIONS:

PROJECT:
 BROWNSTONES ON SUMMIT -
 EGRESS REPLACEMENT

596-604 SUMMIT AVE.
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SHEET TITLE:
 SCHEDULES

SHEET NUMBER:
S0.3
 SHEET 3 OF 9

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 Date: 10/17/2022
 Registration Number: 47126

Project Number: 21-7861-000
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 Drawn: JPS
 Checked: AMC
 Scale: As indicated

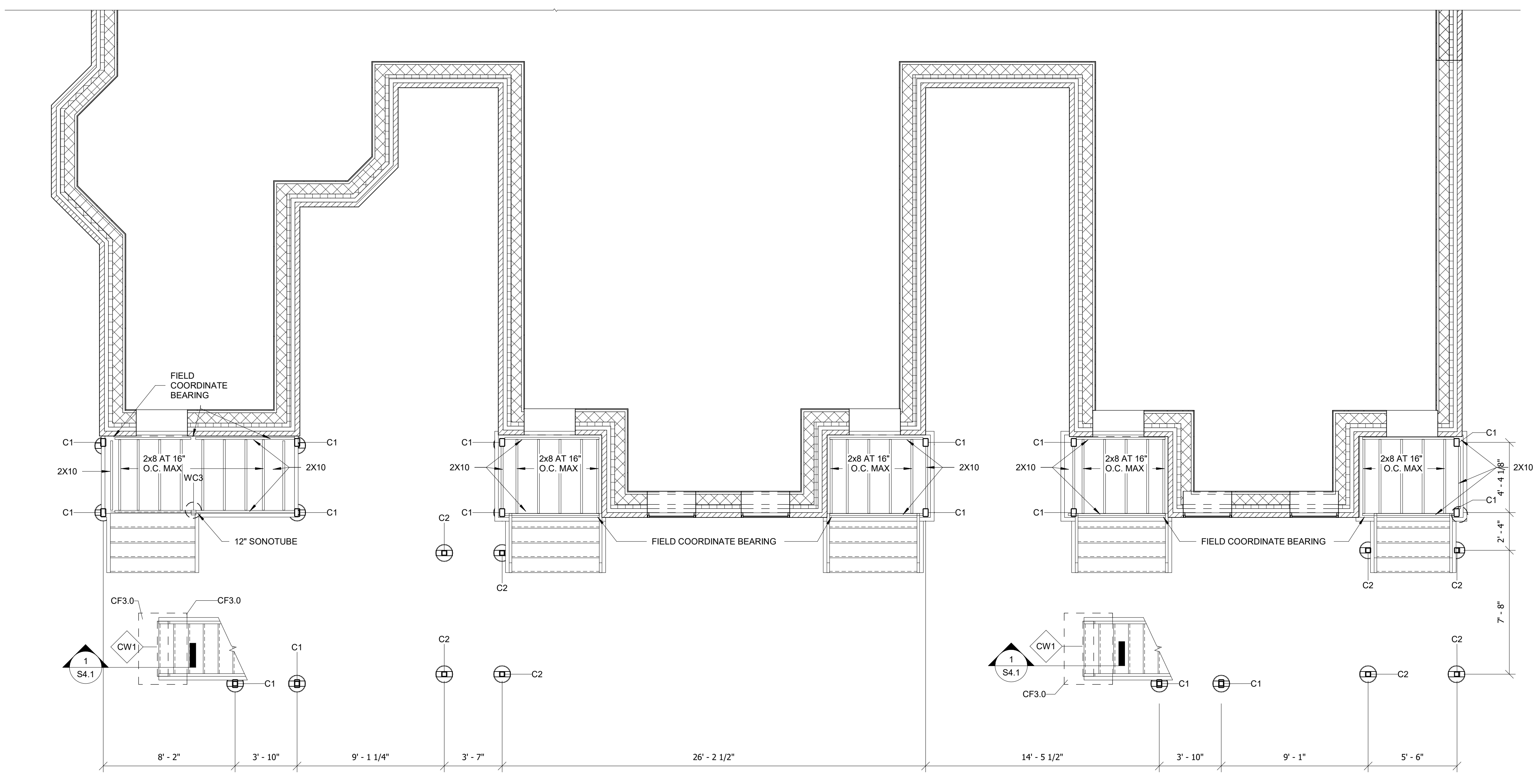
REVISIONS:

PROJECT:
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SHEET TITLE:
 FOUNDATION PLAN

SHEET NUMBER:
S1.1
 SHEET 4 OF 9



① FOUNDATION PLAN
 1/4" = 1'-0"

- FOUNDATION PLAN NOTES:
- SEE PLAN FOR FOOTING ELEVATIONS. 100'-0" IS SET AT FIRST FLOOR ELEVATION
 - ALL FOOTINGS TO BE DRILLED PIERS UNLESS NOTED OTHERWISE
 - ALL CONTINUOUS FOOTINGS TO BE 'CF3.0' UNLESS NOTED OTHERWISE. SEE SHEET S0.3 FOR MORE INFORMATION.
 - ALL CAST IN PLACE WALLS TO BE 'CW1' UNLESS NOTED OTHERWISE. SEE SHEET S0.3 FOR MORE INFORMATION.
 - THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE FOOTING ELEVATIONS SHOWN LOCATE THE BOTTOM OF THE FOOTINGS AT AN ELEVATION WHICH PROVIDES BEARING IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF LOCATIONS THAT DO NOT SATISFY THOSE REQUIREMENTS. IN THOSE CASES, THE GRADE MAY BE ELEVATED WITH COMPACTED MATERIAL APPROVED BY GEOTECHNICAL ENGINEER OR THE FOOTING DEPTH MAY BE INCREASED WITH PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

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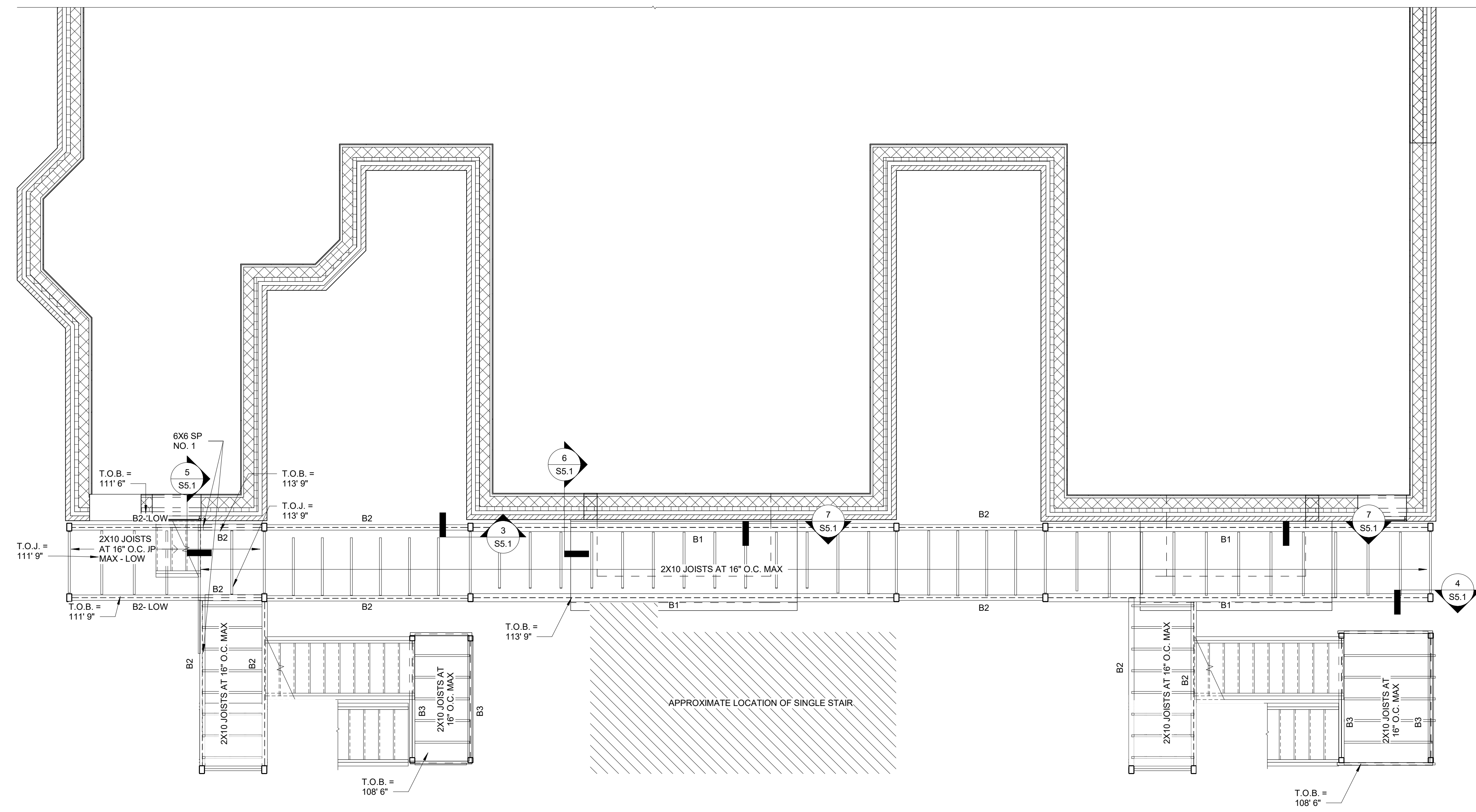
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 EGRESS REPLACEMENT

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SHEET TITLE:
 FRAMING PLAN - LEVEL 2

SHEET NUMBER:
S2.1
 SHEET 5 OF 9



① SECOND LEVEL FRAMING PLAN
 1/4" = 1'-0"

- FLOOR PLAN NOTES:
- SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATION.
 - SEE ARCHITECTURAL DRAWINGS FOR ROOF DECK INFORMATION.
 - ALL STEEL IS TO BE SHOP GALVANIZED.
 - ALL STAIR STRINGERS WERE DESIGNED TO BE C10x20 MEMBERS.
- ALTERNATE: ALL JOISTS TO BE C8x13.75 INSTEAD OF WOOD JOISTS. CONNECTIONS DETAILED AS ALTERNATES ON SHEET S5.1

CONSULTANTS:

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REVISIONS:

PROJECT:
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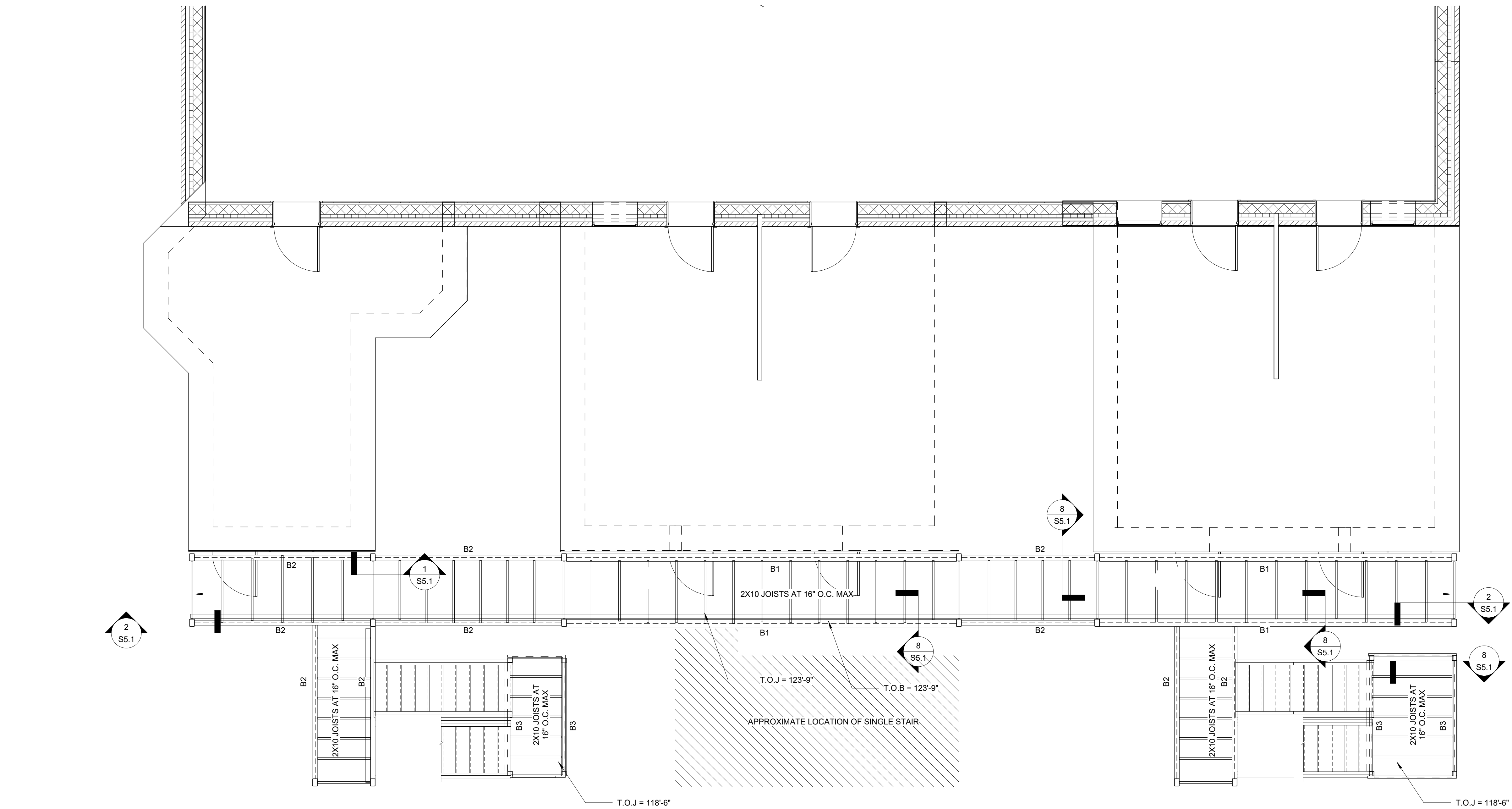
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SHEET TITLE:
 FRAMING PLAN - LEVEL 3

SHEET NUMBER:

S2.2

SHEET 6 OF 9

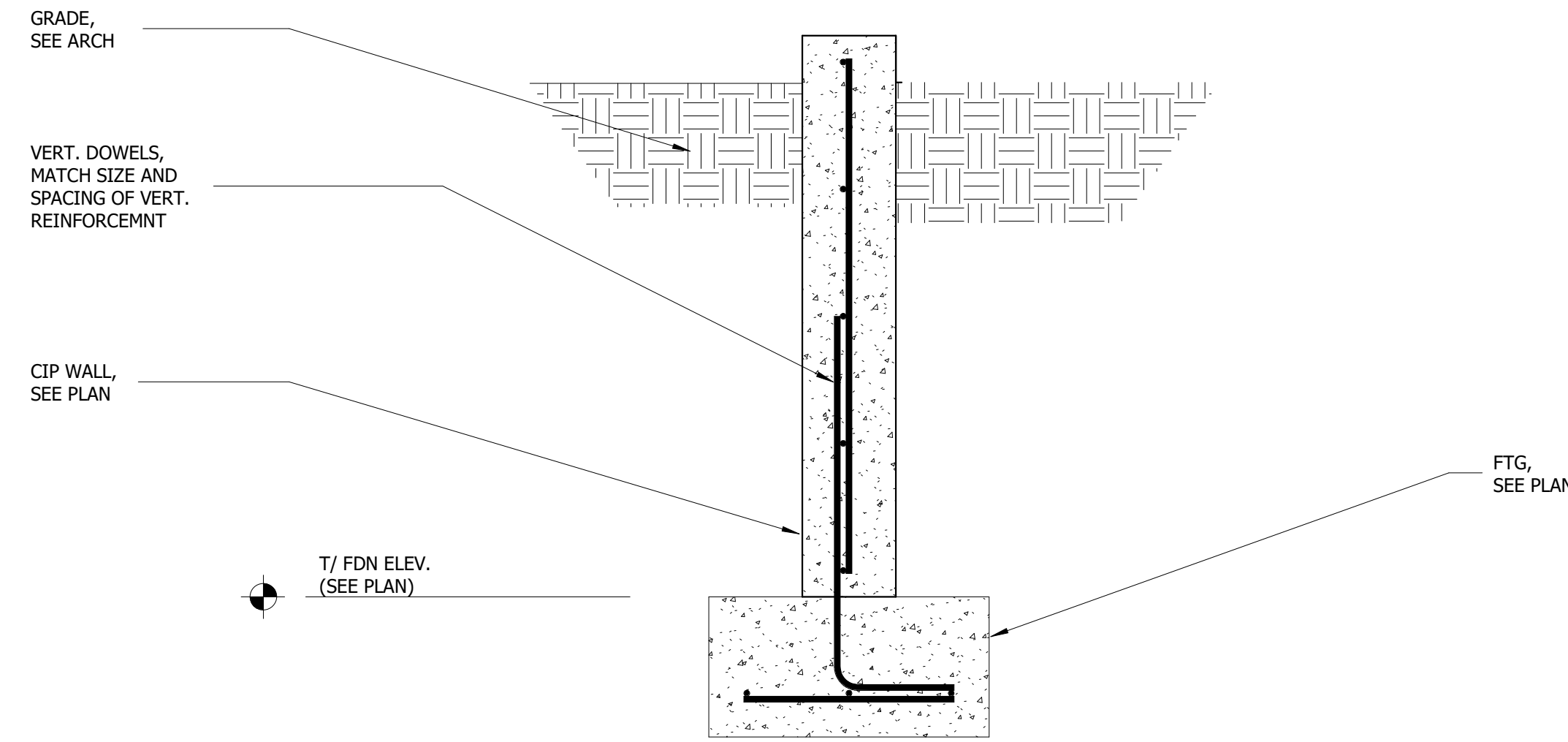


1 THIRD LEVEL FRAMING PLAN
 1/4" = 1'-0"

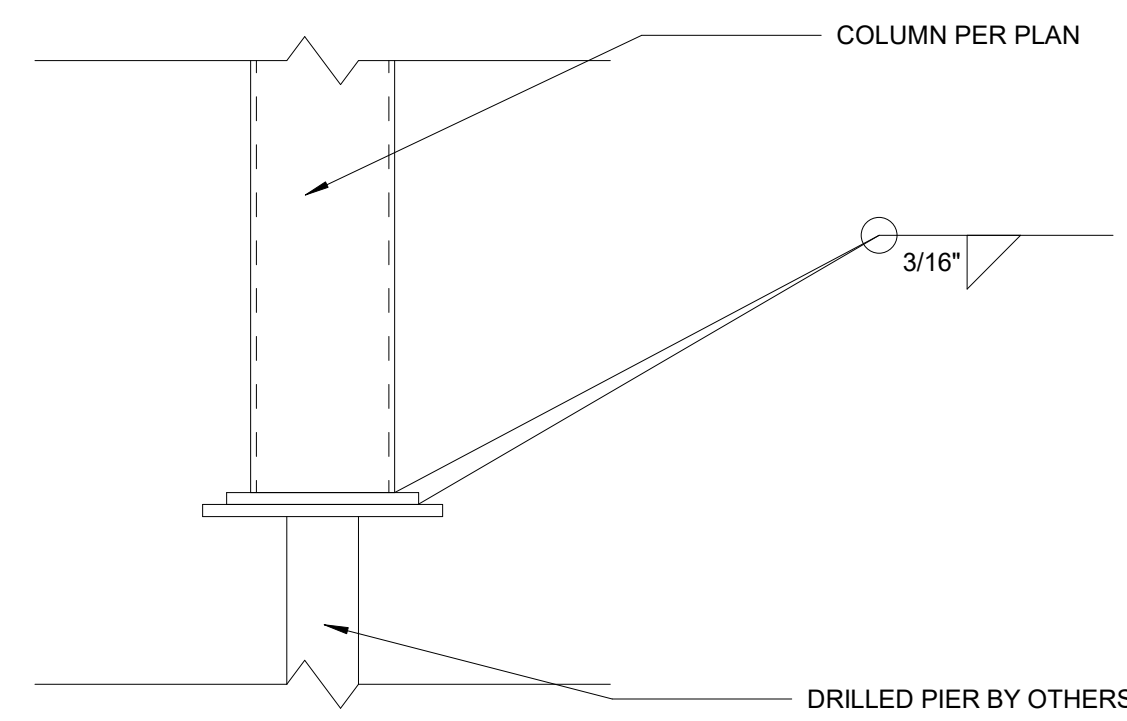
FLOOR PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATION.
2. SEE ARCHITECTURAL DRAWINGS FOR ROOF DECK INFORMATION.
3. ALL STEEL IS TO BE SHOP GALVANIZED.
4. ALL STAIR STRINGERS WERE DESIGNED TO BE C10x20 MEMBERS.

ALTERNATE: ALL JOISTS TO BE C8x13.75 INSTEAD OF WOOD JOISTS. CONNECTIONS DETAILED AS ALTERNATES ON SHEET S5.1



① CIP FOUNDATION WALL
1" = 1'-0"



② COLUMN BASE CONNECTION TO
DRILLED PIER
1 1/2" = 1'-0"



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Name Anne Crisp
Date 10/17/2022
Registration Number 47126

Project Number: 21-7861-000
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Scale: As indicated

REVISIONS:

PROJECT:
BROWNSTONES ON SUMMIT -
EGRESS REPLACEMENT

596-604 SUMMIT AVE.
ST PAUL, MN

SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER:
S4.1
SHEET 7 OF 9

CONSULTANTS:

CERTIFICATION:

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Signature: *Anne Crisp*
 Name: Anne Crisp
 Date: 10/17/2022
 Registration Number: 47126

Project Number: 21-7861-000
 Date: 10/11/2022
 Drawn: JPS
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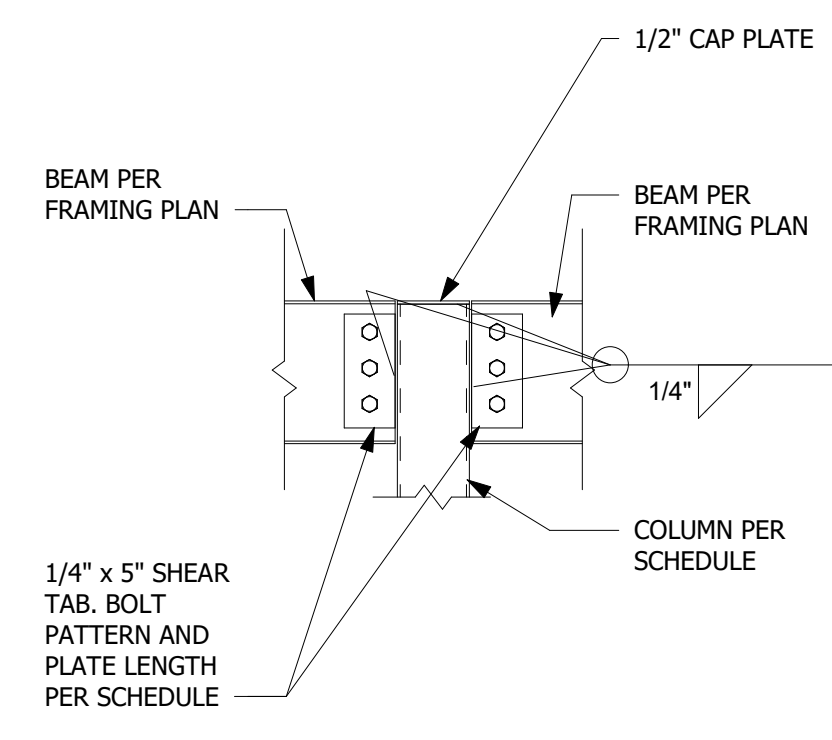
REVISIONS:

PROJECT:
 BROWNSTONES ON SUMMIT -
 EGRESS REPLACEMENT

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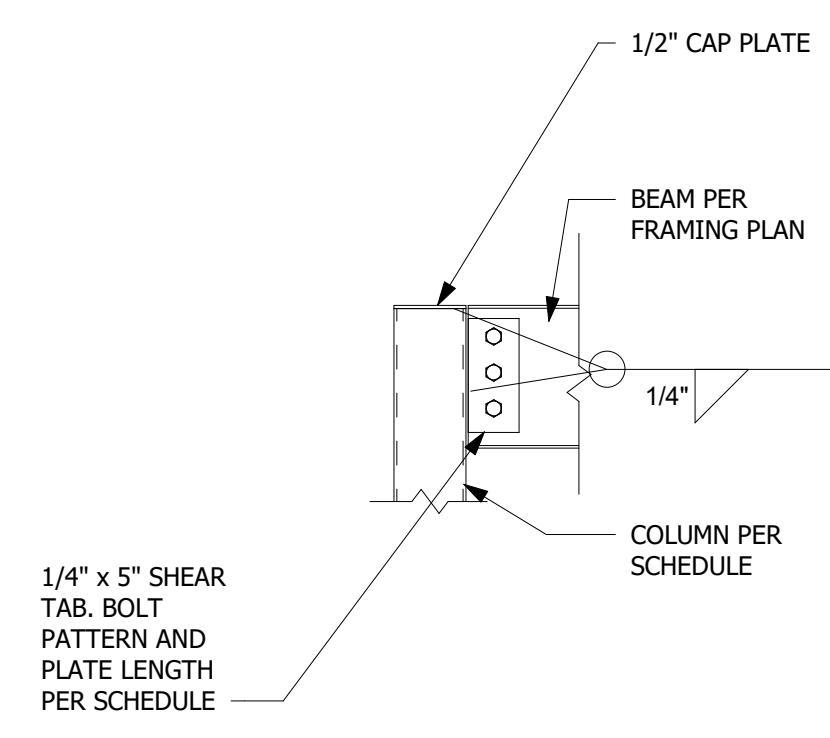
SHEET TITLE:
 FRAMING DETAILS

SHEET NUMBER:
S5.1
 SHEET 8 OF 9



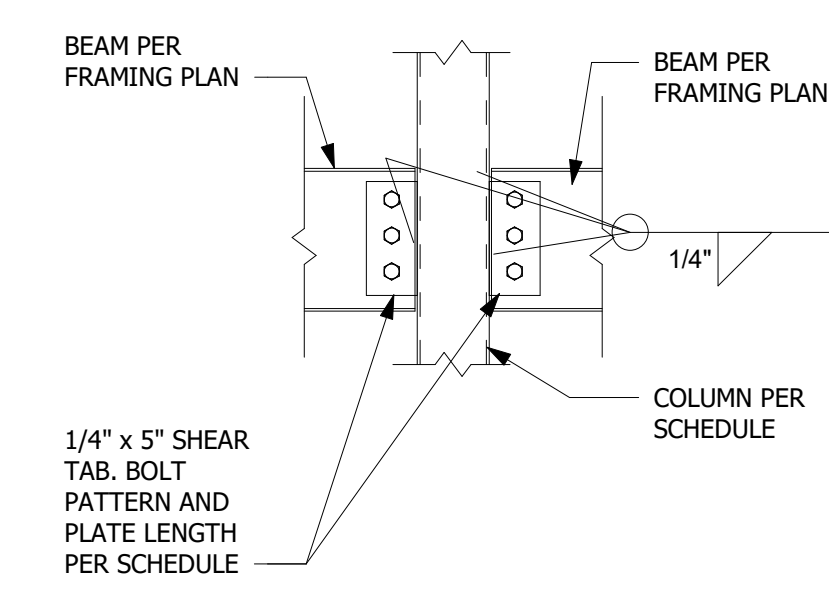
BEAM	PLATE LENGTH	BOLT PATTERN
W18x35	11 1/2"	4- 3/4" A325 THROUGH BOLTS
W10x19	8 1/2"	3- 3/4" A325 THROUGH BOLTS
W8x15	5 1/2"	2- 3/4" A325 THROUGH BOLTS

1 COLUMN CONNECTION
 3/4" = 1'-0"



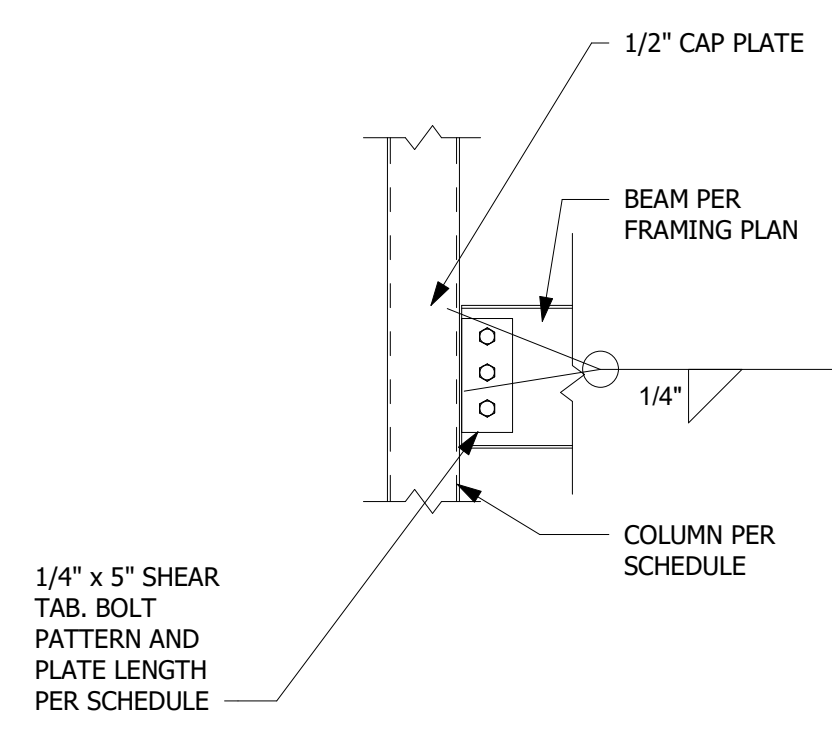
BEAM	PLATE LENGTH	BOLT PATTERN
W18x35	11 1/2"	4- 3/4" A325 THROUGH BOLTS
W10x19	8 1/2"	3- 3/4" A325 THROUGH BOLTS
W8x15	5 1/2"	2- 3/4" A325 THROUGH BOLTS

2 COLUMN CONNECTION
 3/4" = 1'-0"



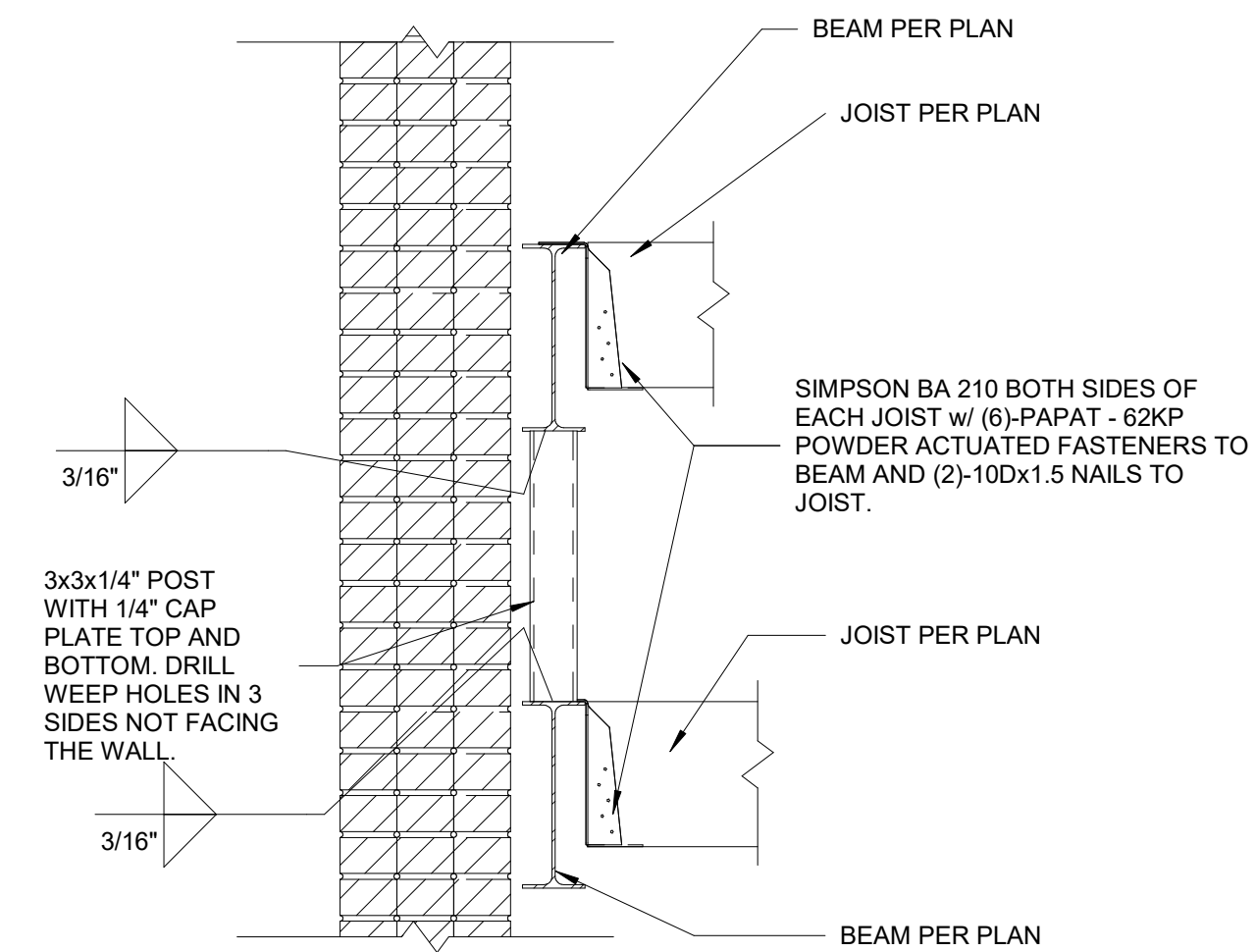
BEAM	PLATE LENGTH	BOLT PATTERN
W18x35	11 1/2"	4- 3/4" A325 THROUGH BOLTS
W10x19	8 1/2"	3- 3/4" A325 THROUGH BOLTS
W8x15	5 1/2"	2- 3/4" A325 THROUGH BOLTS

3 COLUMN CONNECTION
 3/4" = 1'-0"

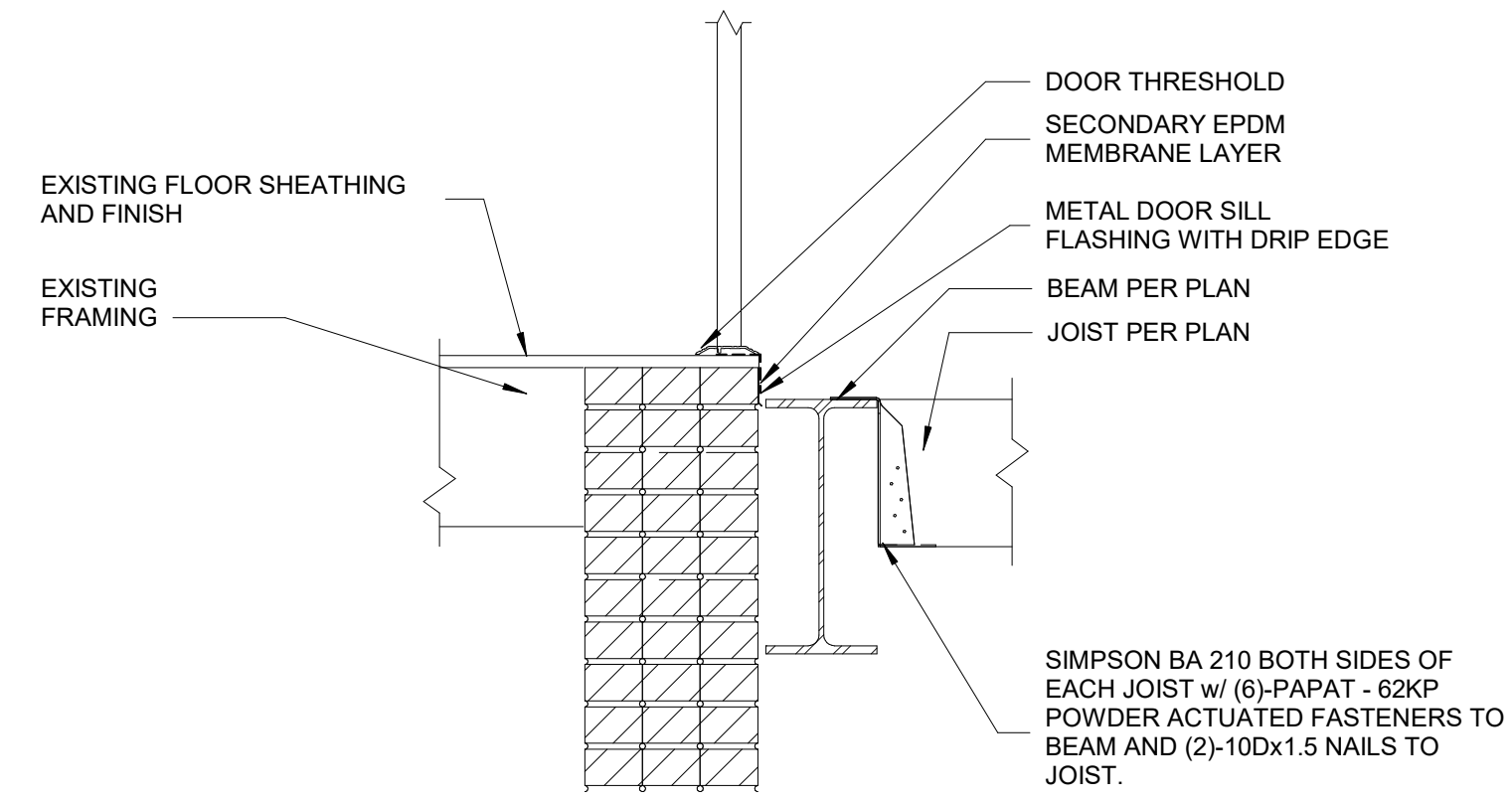


BEAM	PLATE LENGTH	BOLT PATTERN
W18x35	11 1/2"	4- 3/4" A325 THROUGH BOLTS
W10x19	8 1/2"	3- 3/4" A325 THROUGH BOLTS
W8x15	5 1/2"	2- 3/4" A325 THROUGH BOLTS

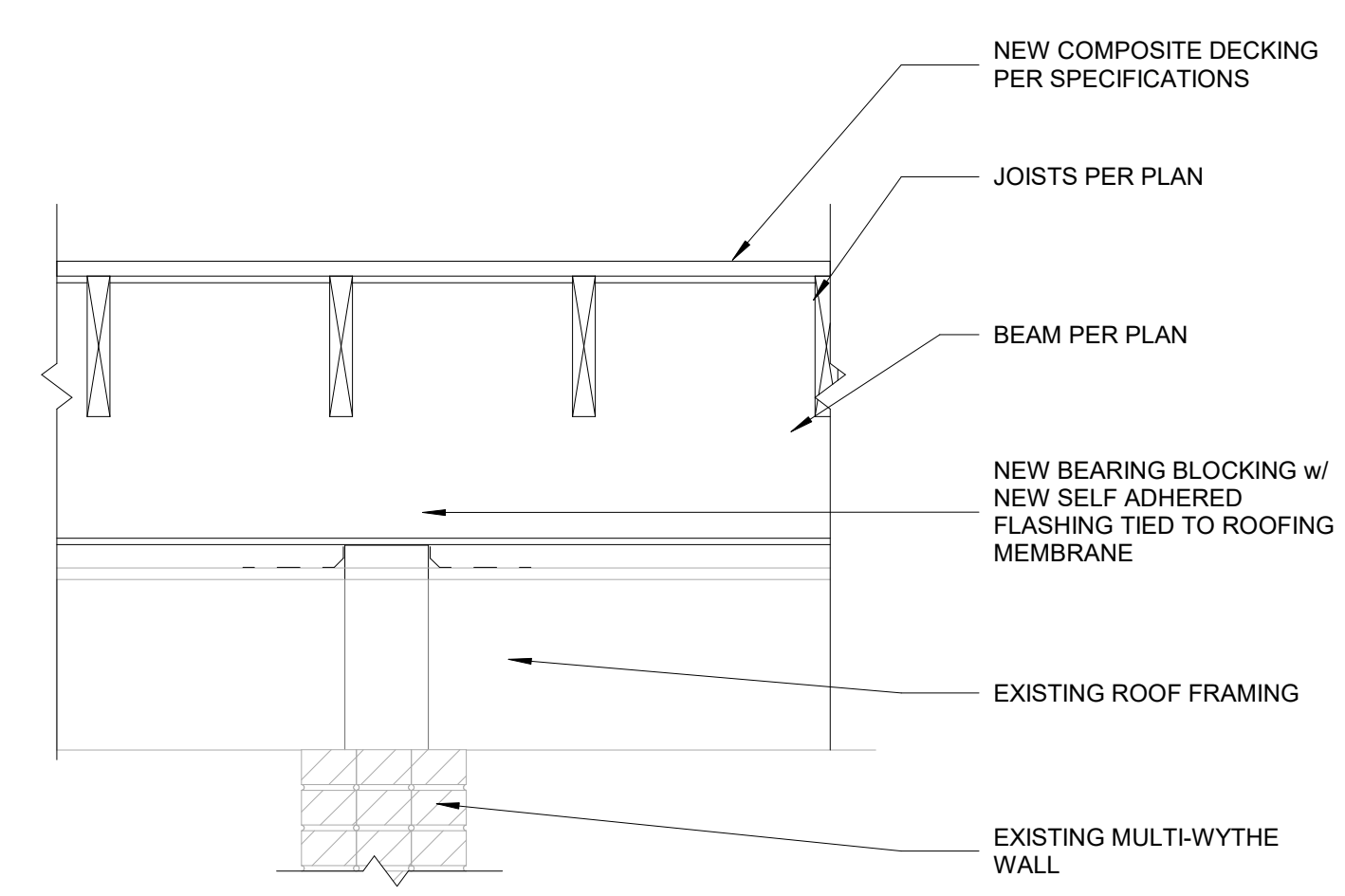
4 COLUMN CONNECTION
 3/4" = 1'-0"



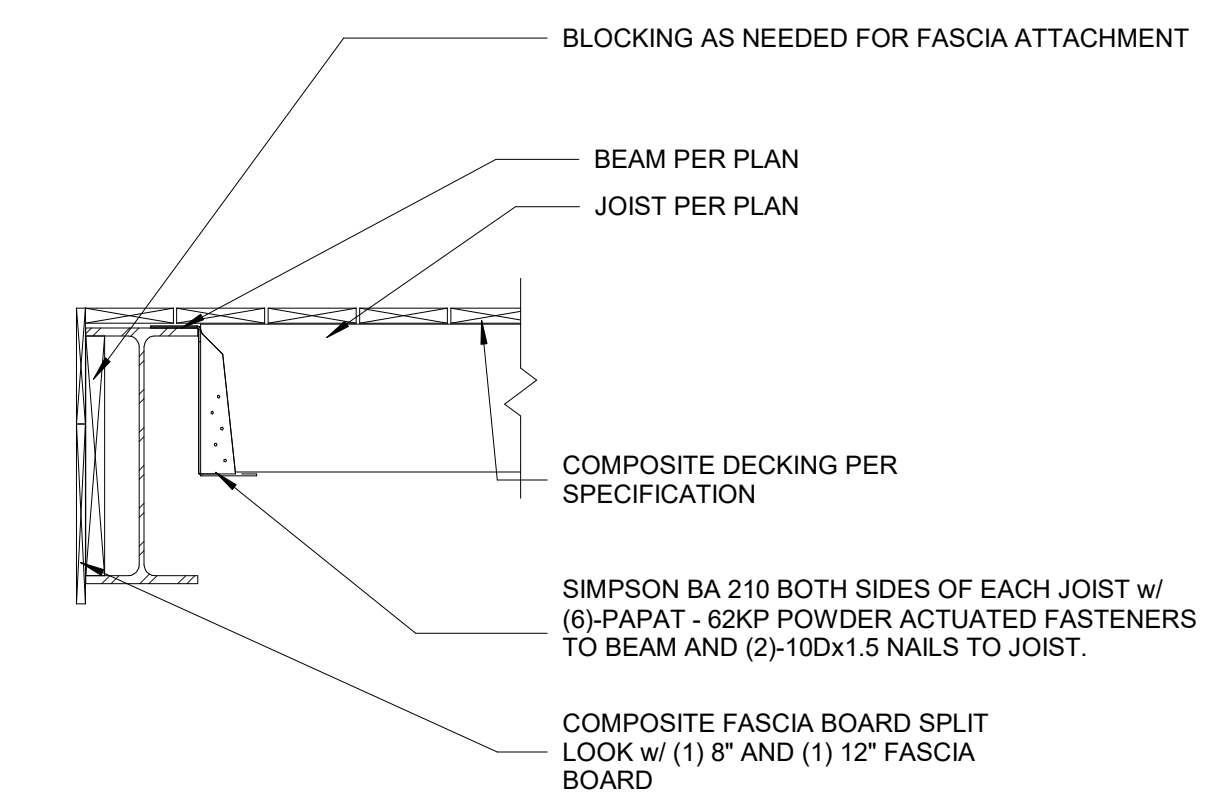
5 2ND LEVEL HIGH/LOW SECTION
 1" = 1'-0"



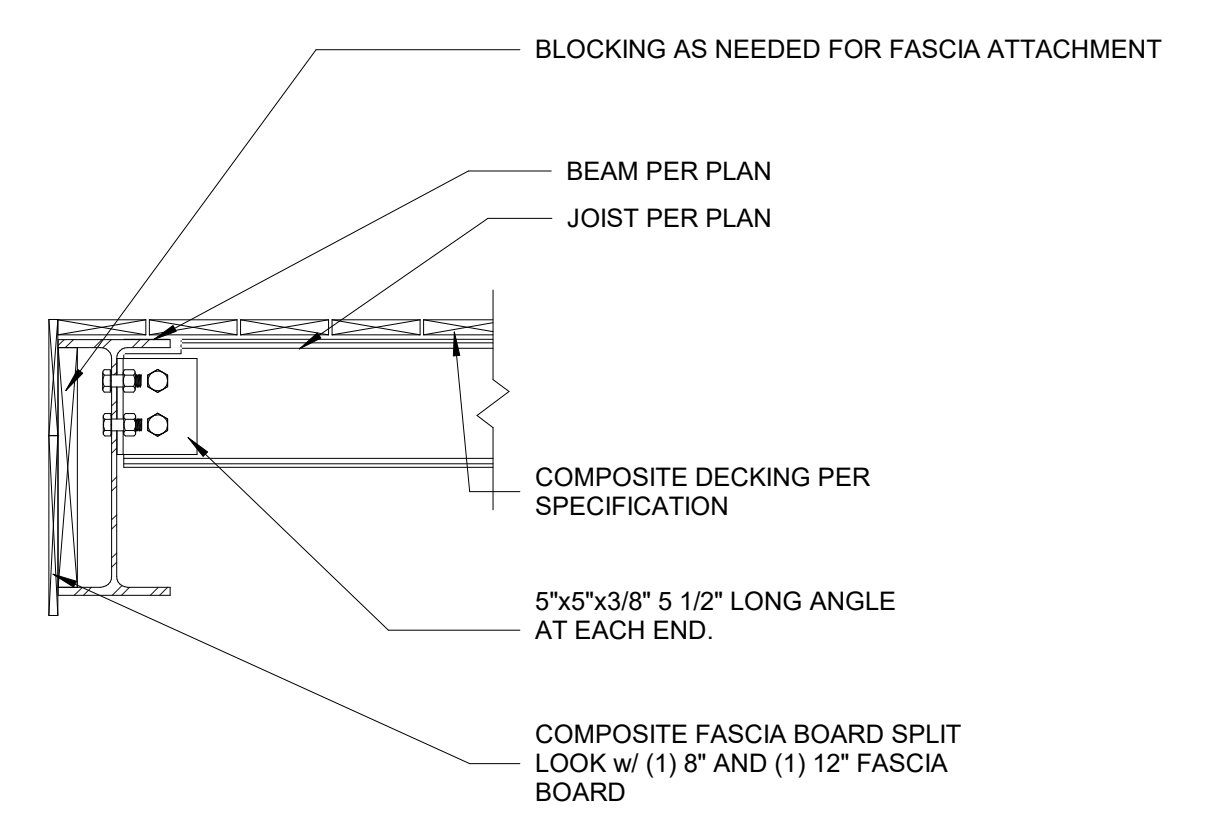
6 JOIST HANGER ON WOOD
 1" = 1'-0"



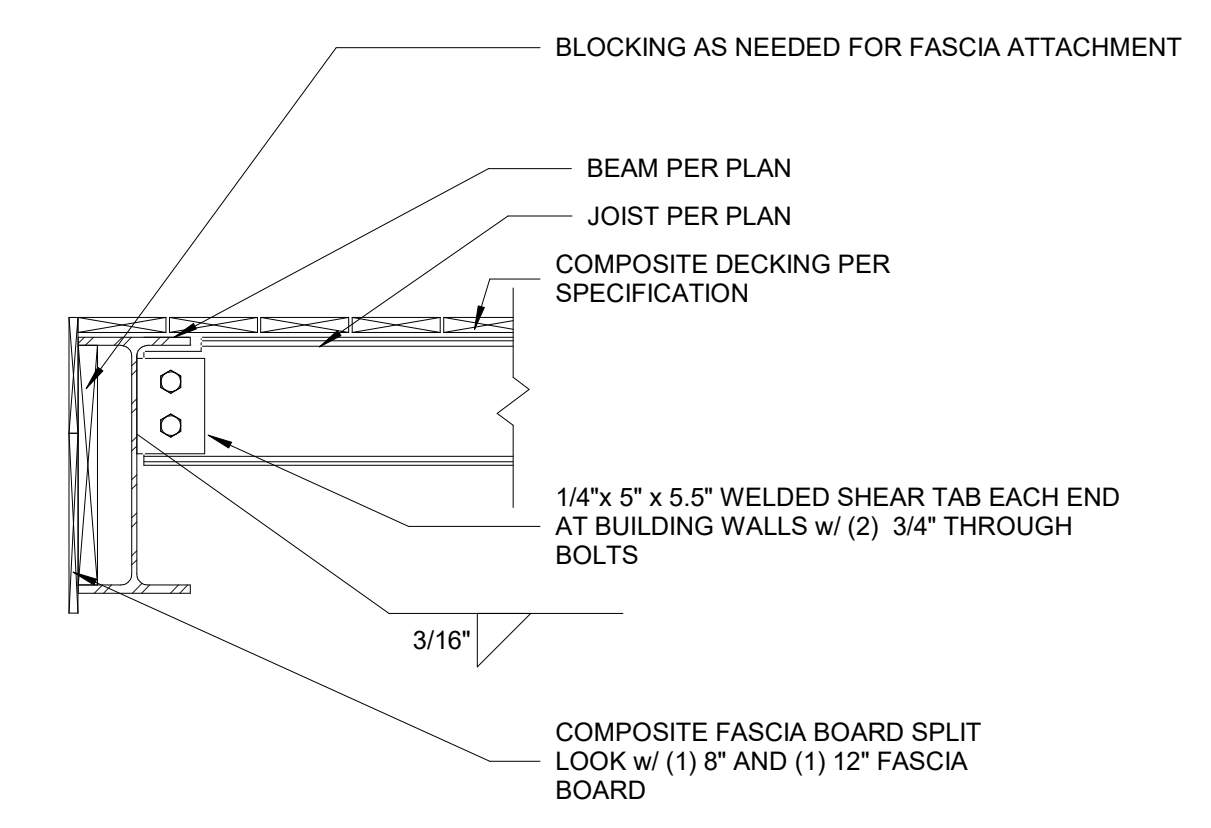
7 NEW BEARING POINT ON EXISTING WALL
 1" = 1'-0"



8 JOIST HANGER ON STEEL
 1" = 1'-0"



9 CHANNEL JOIST ALTERNATE
 1" = 1'-0"



10 CHANNEL JOIST ALTERNATE
 1" = 1'-0"