

LEGEND, NOTES AND ABBREVIATIONS  
**ATKINSON QUADRANGLE EXTERIOR REPAIRS**  
 project  
 owner MONTANA STATE UNIVERSITY

sheet  
 project # **23123.00**  
 revision \_\_\_\_\_ date \_\_\_\_\_

phase  
**CONSTRUCTION DOCUMENTS**



issue date  
**01.24.2025**

**C1.1**

**LINETYPES**

	EXISTING	PROPOSED
SANITARY SEWER	SS	SS
STORM DRAIN	SD	SD
WATER	W	W
CURB AND GUTTER		
EDGE OF ASPHALT	EDGE_OF_EX ASPHALT	
EDGE OF GRAVEL	EDGE_OF_EX GRAVEL	
FENCE - BARBED WIRE	x	x
FENCE - CHAINLINK/ WOVEN WIRE		
FENCE - VINYL	v	v
FENCE - WOOD		
FIBER OPTIC	FO	FO
GAS PIPELINE	G	G
LIQUID PROPANE PIPELINE	LP	LP
OIL PIPELINE	OIL	OIL
UNDERGROUND POWER	P	P
OVERHEAD POWER	OHP	OHP
TELEPHONE	T	T
TELEVISION/CABLE	TV	TV
CONTOUR	3157	3157
DEMO AREA		
PROPOSED ASPHALT		
PROPOSED CONCRETE		
PROPOSED GRAVEL		
PROPOSED LANDSCAPING REGRADE AREAS		

**ABBREVIATIONS**

AC = FINISHED GRADE AT ASPHALT	PC = POINT OF CURVATURE
BC = FINISHED GRADE AT BUILDING CORNER	PI = POINT OF INTERSECTION
BRK = GRADE BREAK	POC = POINT ON CURVE
BFV = BUTTERFLY VALVE	PRC = POINT OF REVERSE CURVE
BVC = BEGIN VERTICAL CURVE	PT = POINT OF TANGENCY
CS = CURB STOP	PVI = POINT OF VERTICAL INTERSECTION
EA = FINISHED GRADE AT EDGE OF ASPHALT	RED = REDUCER
EC = FINISHED GRADE AT EDGE OF CONCRETE	RT = RIGHT
EVC = END VERTICAL CURVE	SD = STORM DRAIN
EW = FINISHED GRADE AT EDGE OF WALK	SDI = STORM DRAIN INLET
EX = APPROXIMATE EXISTING ELEVATION	SDMH = STORM DRAIN MANHOLE
FL = FINISHED GRADE AT FLOWLINE	SRVC = SERVICE
FT = FEET	SS = SANITARY SEWER
FG = FINISHED GRADE	SSMH = SANITARY SEWER MANHOLE
GR = EXISTING GRADE AT GROUND	TC = FINISHED GRADE AT TOP BACK OF CURB
GV = GATE VALVE	TW = FINISHED GRADE AT TOP OF WALL
HP = HIGH POINT	WTR = WATER
LF = LINEAL FOOT	(TYP.) = TYPICAL
LT = LEFT	

KEYNOTE CALL OUT  
 (SEE KEYNOTE LEGEND)

**GRADING PLAN**

1	CATCH CURB	CATCH CURB → TOP OF CURB - 0.38' = LIP TOP OF CURB - 0.45' = FLOWLINE
2	SPILL CURB	
3	TRANSITION FROM CATCH TO SPILL CURB	SPILL CURB → TOP OF CURB - 0.58' = LIP TOP OF CURB - 0.53' = FLOWLINE
4	TAPER CURB HEAD 3'	

**SYMBOLS**

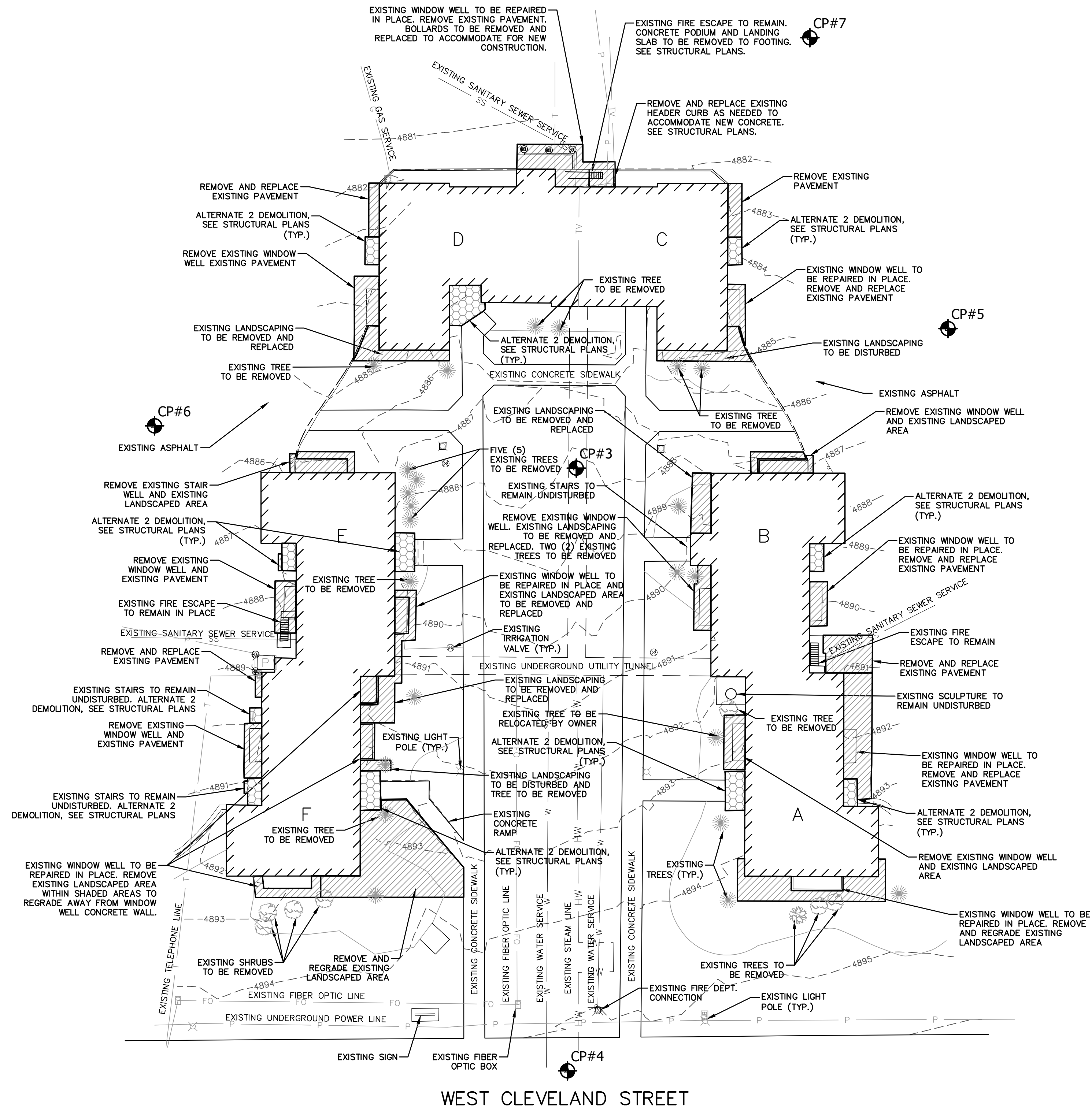
EXISTING WATER REDUCER	YARD HYDRANT	TELEPHONE MANHOLE	TRANSFORMER	IRRIGATION VALVE
PROPOSED WATER REDUCER	EXISTING SANITARY SEWER MANHOLE	TELEPHONE PEDESTAL	POWER MANHOLE	BUSH
EXISTING WATER VALVE	PROPOSED SANITARY SEWER MANHOLE	COMMUNICATIONS MANHOLE	POWER METER	CONIFEROUS TREE
PROPOSED WATER VALVE	SANITARY SEWER CLEAN OUT	COMMUNICATIONS PEDESTAL	POWER POLE	DECIDUOUS TREE
EXISTING FIRE HYDRANT	EXISTING STORM DRAIN MANHOLE	FIBER OPTIC PEDESTAL	GUYWIRE	SIGNAL POLE
PROPOSED FIRE HYDRANT	PROPOSED STORM DRAIN MANHOLE	GAS MANHOLE	LIGHT POLE	FOUND CORNER MONUMENT AS NOTED
EXISTING CURB STOP	EXISTING CATCH BASIN	GAS METER	SIGN	SET CORNER MONUMENT, REBAR WITH CAP
PROPOSED CURB STOP	PROPOSED CATCH BASIN	GAS WELL	BOLLARD	BENCHMARK
FIRE DEPT. CONNECTION	ROOF DRAIN	GAS VALVE	EXISTING MONUMENT BOX	SECTION QUARTER CORNER
WELL	TELEPHONE BOX	ELECTRIC JUNCTION BOX	PROPOSED MONUMENT BOX	SECTION CORNER
		ELECTRIC PEDESTAL	IRRIGATION BOX	

NOTE:  
 -EXISTING UNDERGROUND INSTALLATIONS & PRIVATE UTILITIES SHOWN ARE INDICATED ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF SUCH INFORMATION. SERVICE LINES (WATER, POWER, GAS, STORM, SEWER, TELEPHONE & TELEVISION) MAY NOT BE STRAIGHT LINES OR AS INDICATED ON THE PLANS. STATE LAW REQUIRES CONTRACTOR TO CALL ALL UTILITY COMPANIES BEFORE EXCAVATION FOR EXACT LOCATIONS.  
 -ALL IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS 6TH EDITION, APRIL, 2010, AND THE CITY OF BOZEMAN STANDARD MODIFICATIONS, DATED MARCH 31, 2011, WITH ADDENDUM.  
 -UNLESS OTHERWISE SPECIFIED, ALL CONSTRUCTION LAYOUT AND STAKING SHALL BE PERFORMED UNDER THE RESPONSIBLE CHARGE OF A LAND SURVEYOR LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND BY A PARTY CHIEF OR ENGINEERING TECHNICIAN EXPERIENCED IN CONSTRUCTION LAYOUT AND STAKING TECHNIQUES AS ARE REQUIRED BY THE SPECIFIC TYPE OF WORK BEING PERFORMED.

P:\2312\_MSU\_Student\_Housing\_Facilities\_Task\_#2312\_CADD\PRODUCTION\_DWG\2312\_QUAD\_COVER.dwg Jan 24, 2025 - 5:28pm  
 P:\2312\_MSU\_Student\_Housing\_Facilities\_Task\_#2312\_CADD\PRODUCTION\_DWG\2312\_QUAD\_COVER.dwg LEGEND NOTES AND ABBREVIATIONS 1/24/2025 5:28:59 PM Auser: 11

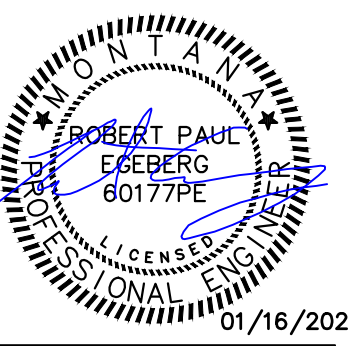
SITE DEMOLITION NOTES:

1. ALL LOCATIONS AND DIMENSIONS OF EXISTING AND PROPOSED FEATURES ARE APPROXIMATE AND THE PROJECT DRAWINGS MAY NOT INCLUDE ALL EXISTING FEATURES WITHIN THE PROJECT BOUNDARIES. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE SITE PRIOR TO BIDDING AND CONSTRUCTION TO BECOME FAMILIAR WITH THE EXISTING SITE FEATURES AND CONDITIONS. IF DISCREPANCIES ARE FOUND BETWEEN THE PROJECT DRAWINGS AND FIELD CONDITIONS THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS NECESSARY TO COMPLETE THE PROPOSED WORK INCLUDING DEMOLITION, RIGHT-OF-WAY AND ENVIRONMENTAL PERMITS.
3. ALL PUBLIC AND PRIVATE UTILITY TERMINATIONS, DISCONNECTS AND REMOVALS TO BE COORDINATED WITH THE APPLICABLE UTILITY PROVIDERS AND PERFORMED IN ACCORDANCE TO THEIR RESPECTIVE STANDARDS AND SPECIFICATIONS.
4. ALL EXISTING ASPHALT, CONCRETE, GRAVEL AND OTHER EXISTING FACILITIES TO BE REMOVED AND PROPERLY DISPOSED IN ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
5. ALL REMOVED, DISTURBED OR DAMAGED EXISTING ASPHALT, CURB AND GUTTER, PUBLIC SIDEWALK AND PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT-OF-WAY TO BE RESTORED IN ACCORDANCE TO CITY STANDARDS. ALL ASPHALT MATCH LINES SHALL BE SAW CUT TO PROVIDE FLUSH TRANSITION AND SEALED. REMOVE AND DISPOSE OF DISTURBED SIDEWALK TO THE NEAREST JOINT.
6. ALL EXCAVATIONS OR VOIDS CREATED DURING DEMOLITION SHALL BE BACKFILLED AND COMPACTED IN A CONTROLLED MANNER.
7. ALL TREES AND SHRUBS SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
8. ALL DISTURBED AND REMOVED PAVEMENT AREAS SHALL BE REPAVED TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE EXISTING BUILDING AND WINDOW WELLS.
9. ALL DISTURBED LANDSCAPED AREAS SHALL BE REPLACED TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE EXISTING BUILDING AND WINDOW WELLS.
10. ALL WATER AND SANITARY SEWER UTILITY SERVICE LINES TO BE PROTECTED IN PLACE.
11. ALL DISTURBED IRRIGATION LINES TO BE REPAIRED TO MATCH EXISTING CONDITIONS.



PROJECT SURVEY CONTROL (LDP)				
Point #	Northing (IFT)	Eastng (IFT)	Elevation (USSF)	Description
3	116487.90	380247.34	4888.31	CP /SPIKE
4	116316.42	380244.84	4895.18	CP /SPIKE
5	116527.56	380353.02	4884.38	CP /SPIKE
6	116499.91	380127.40	4885.36	CP /SPIKE
7	116610.31	380313.74	4879.68	CP /SPIKE

PROJECT DATUM: LOW DISTORTION PROJECTION  
 COORDINATE SYSTEM (LDP MT83-802-IF) NORTH  
 AMERICAN DATUM OF 1983  
 SURVEYED: 02/06/24 BY: CK



EXISTING CONDITIONS AND DEMOLITION PLAN  
**ATKINSON QUADRANGLE EXTERIOR REPAIRS**  
 owner MONTANA STATE UNIVERSITY

sheet project # **23123.00**

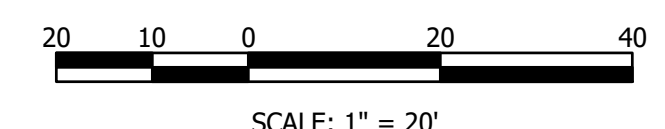
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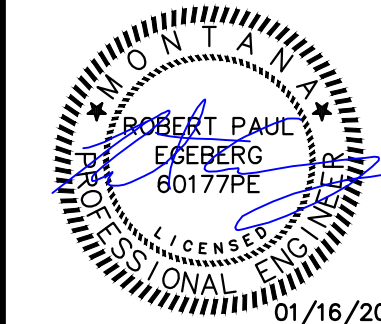
phase  
 CONSTRUCTION DOCUMENTS



issue date  
**01.24.2025**

**C2.1**





01/16/2025



sheet **SITE PLAN**  
 project **ATKINSON QUADRANGLE EXTERIOR REPAIRS**  
 owner MONTANA STATE UNIVERSITY

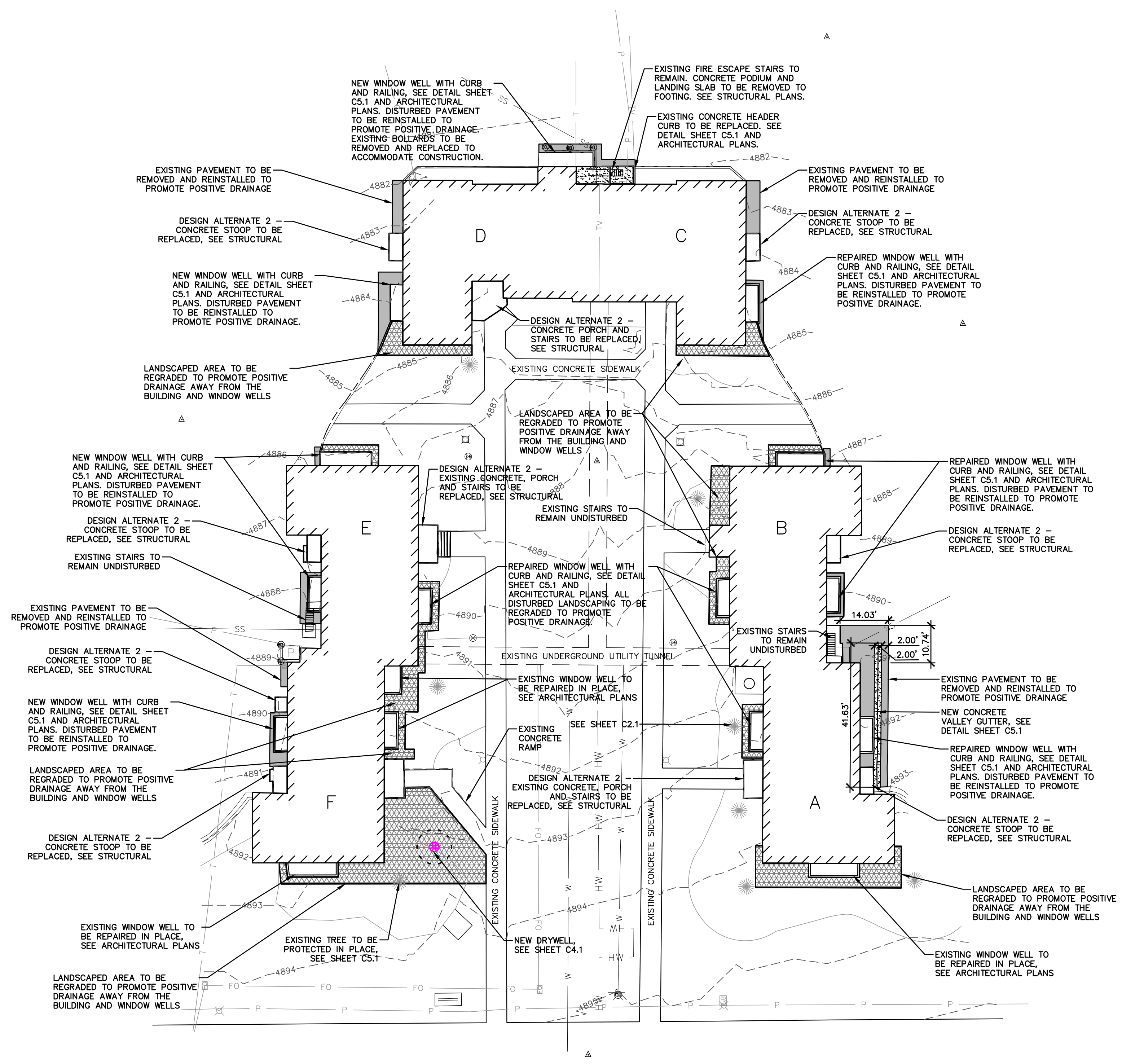
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 revision \_\_\_\_\_ date \_\_\_\_\_

phase  
**CONSTRUCTION DOCUMENTS**

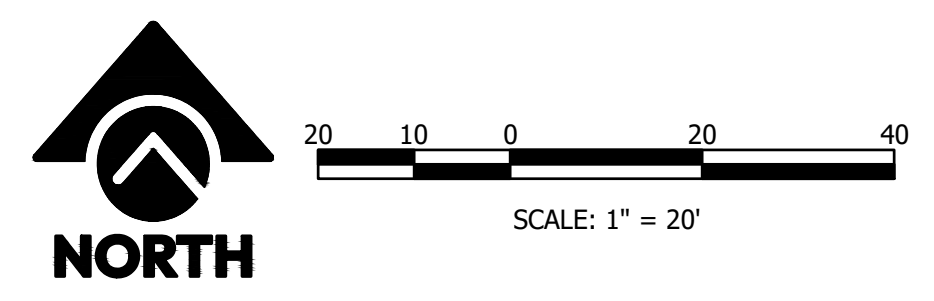


issue date  
**01.24.2025**

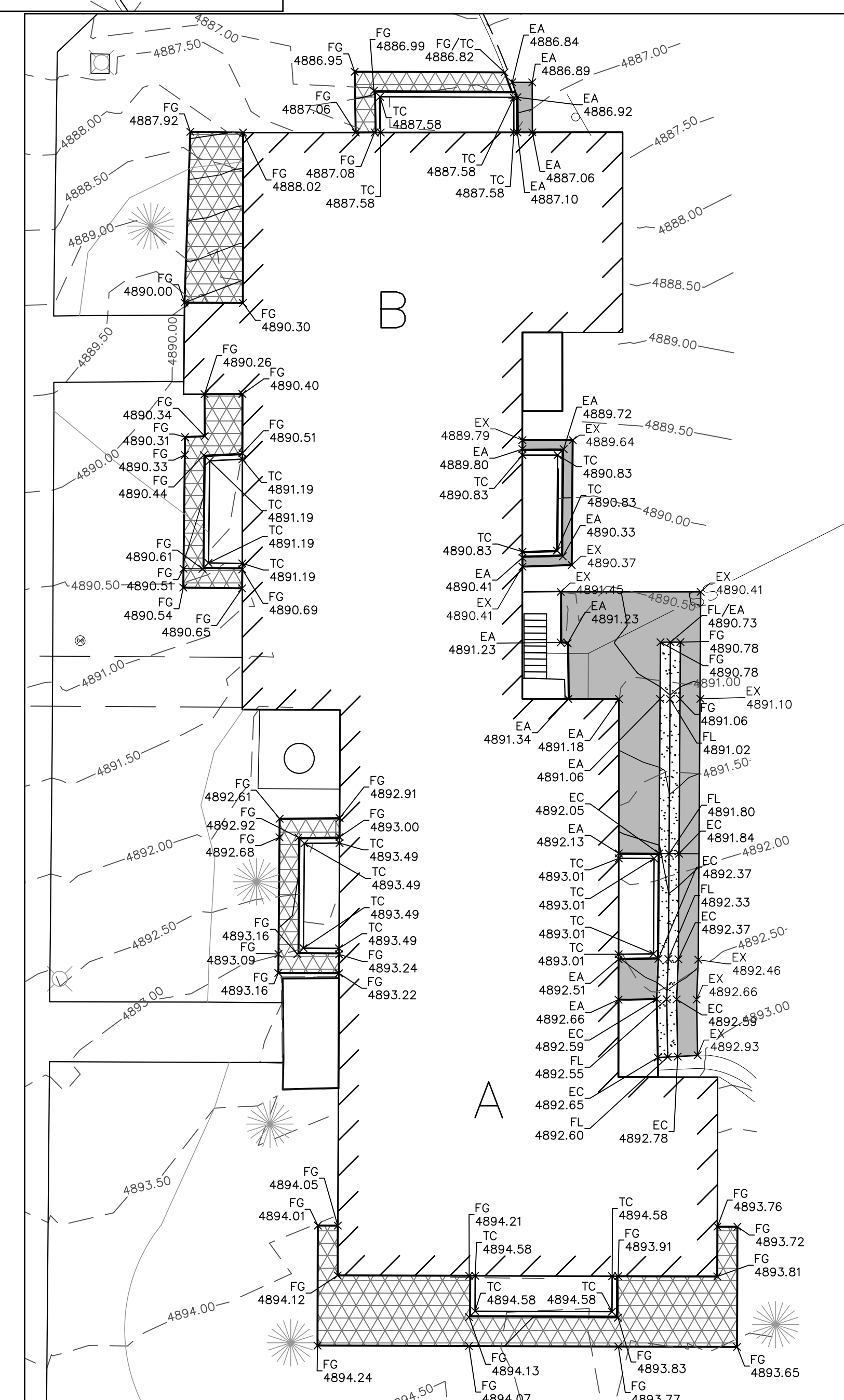
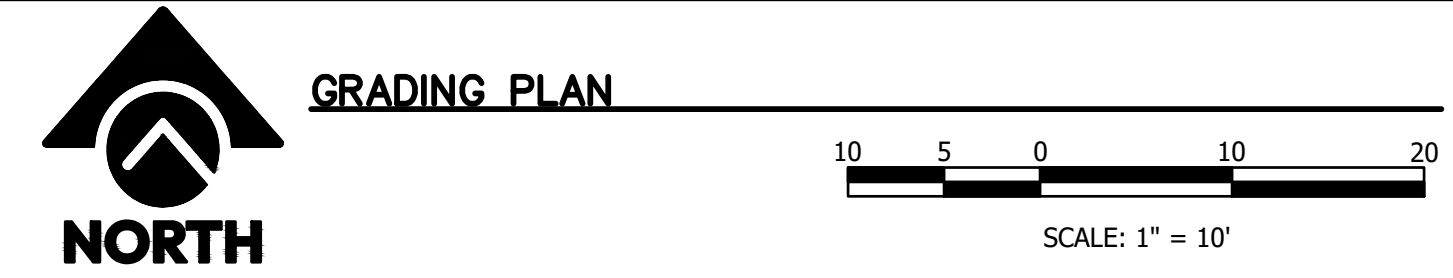
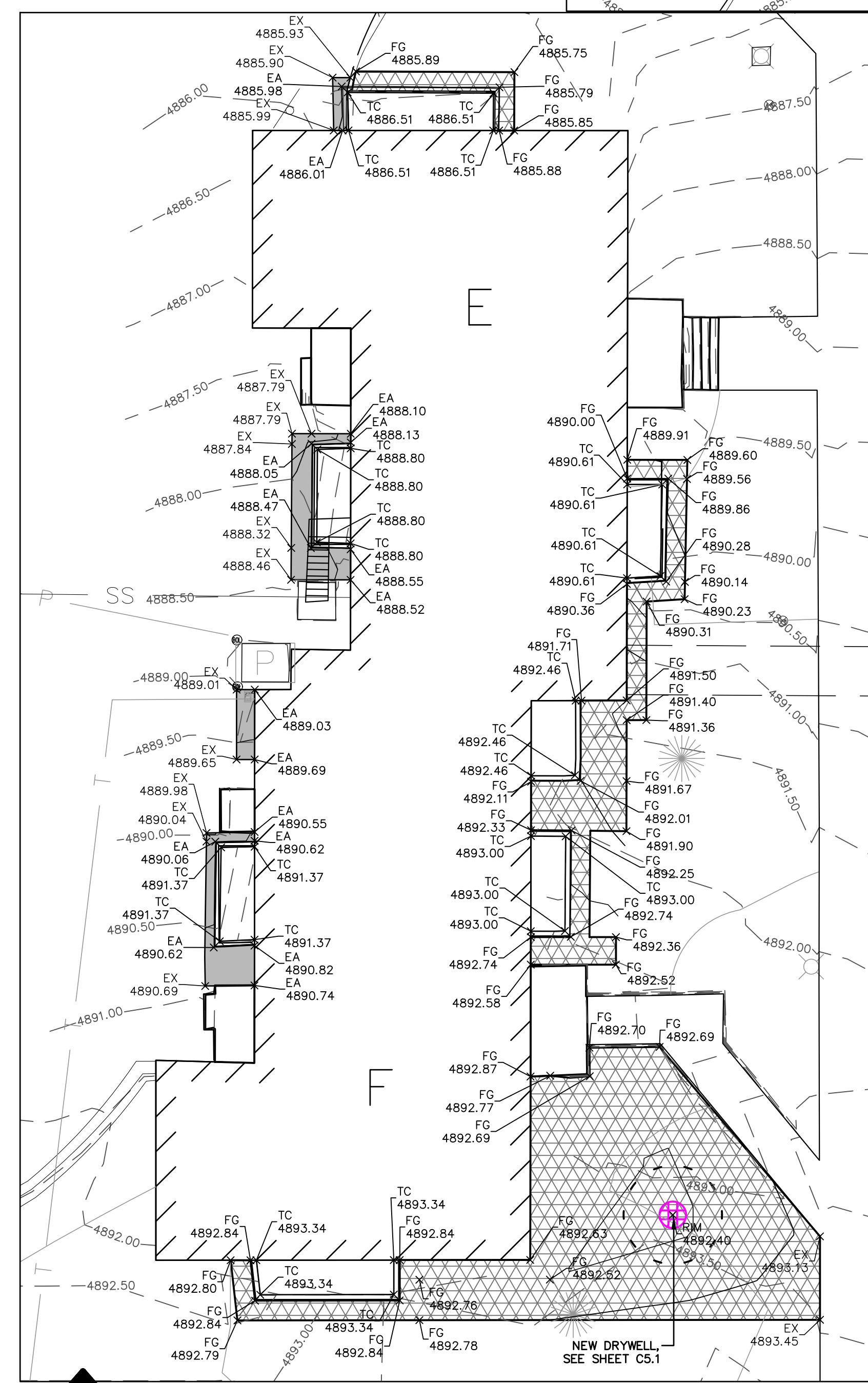
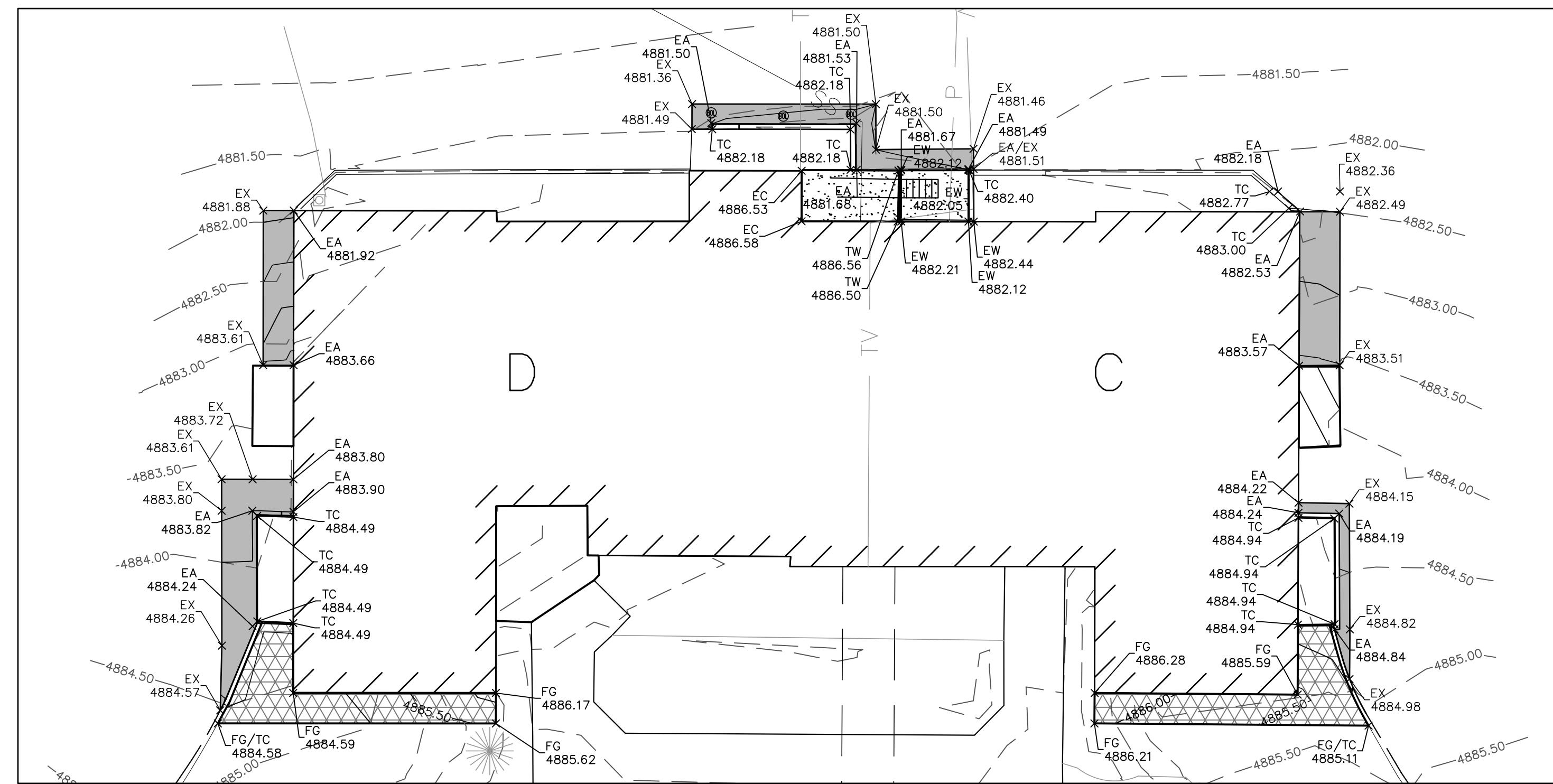
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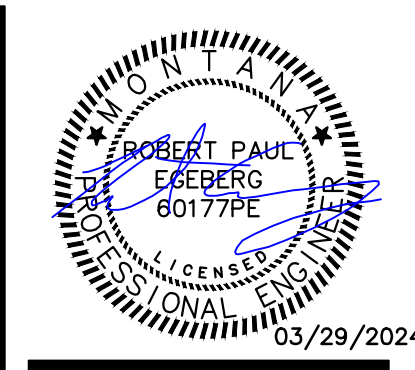
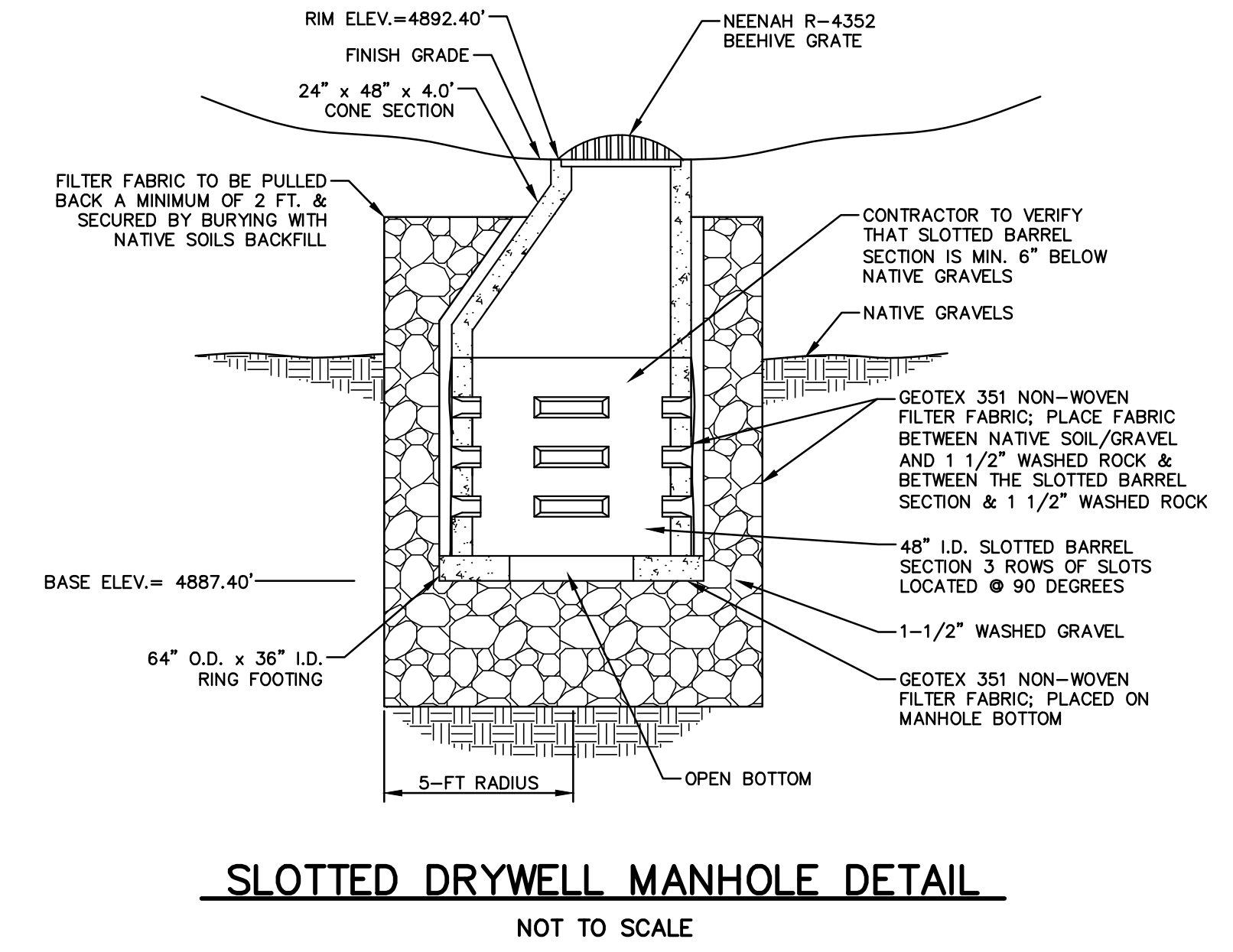
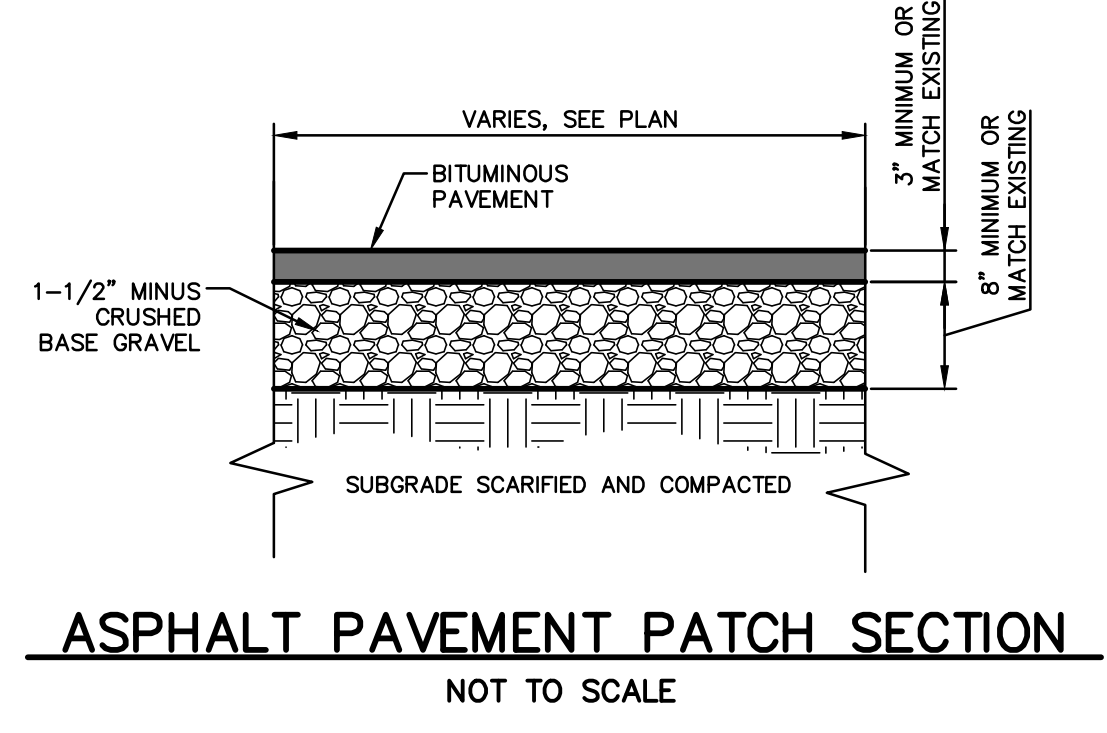
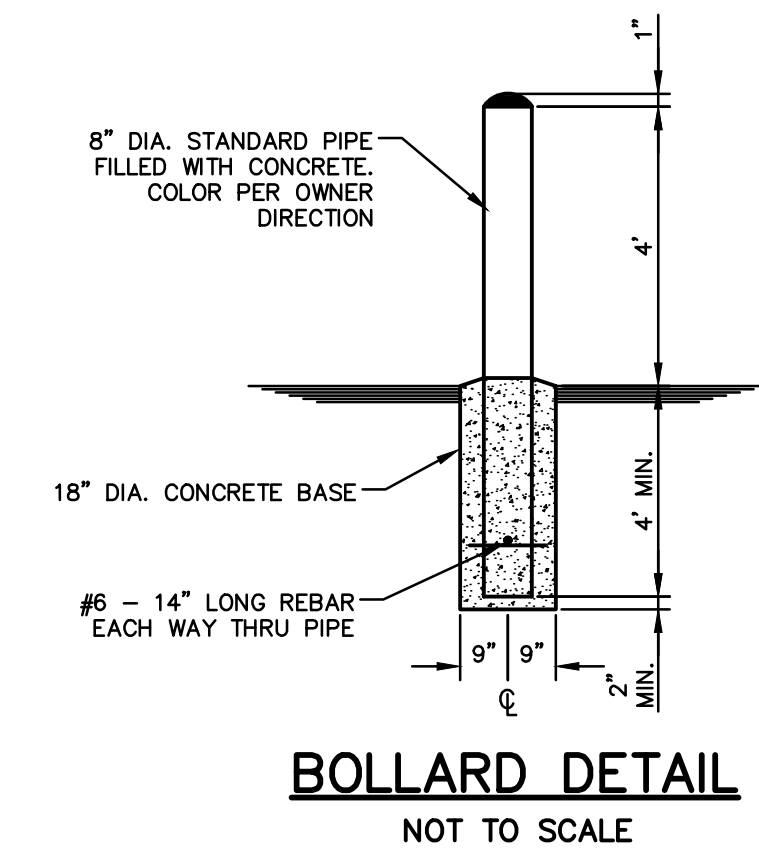
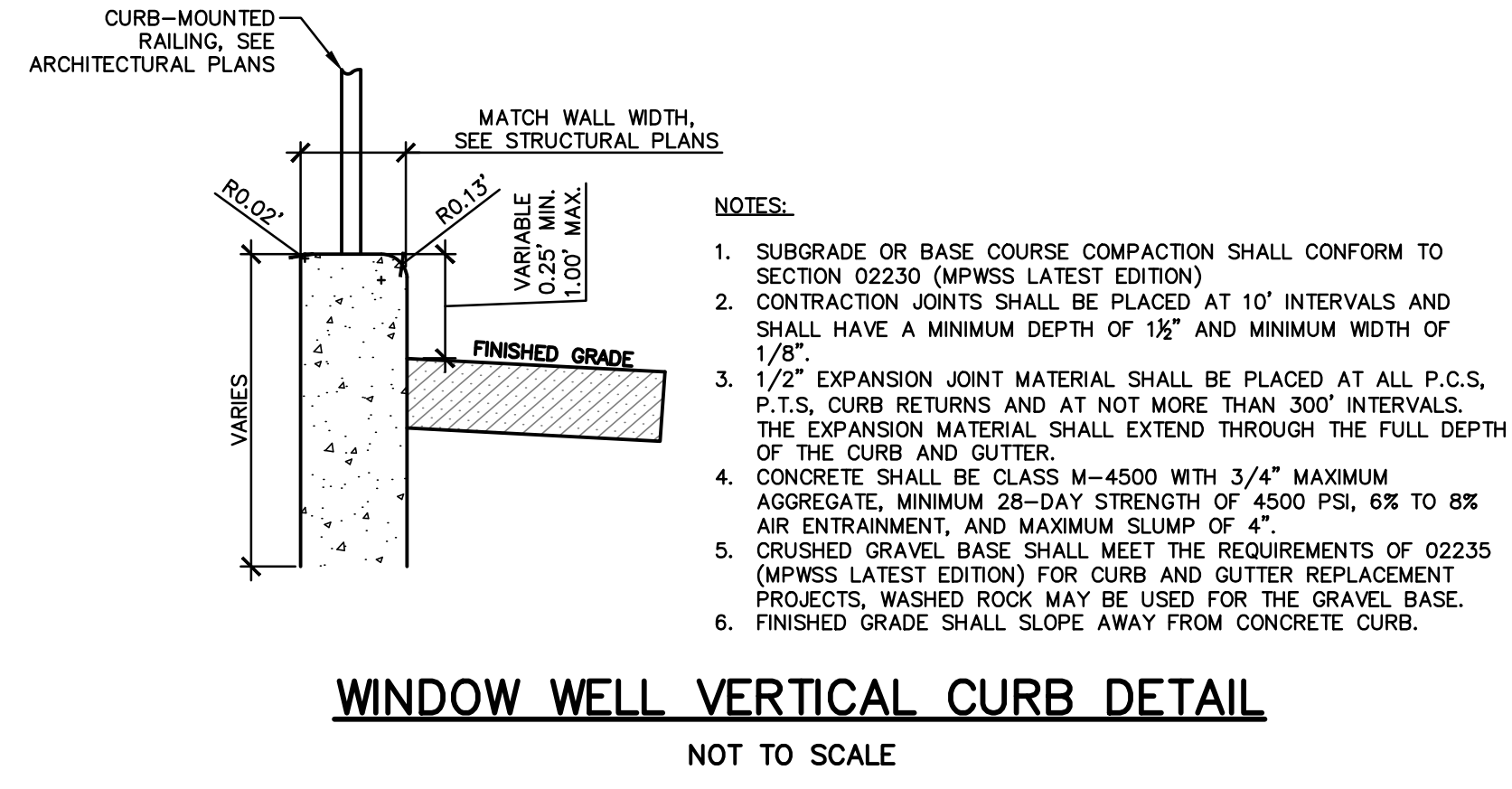
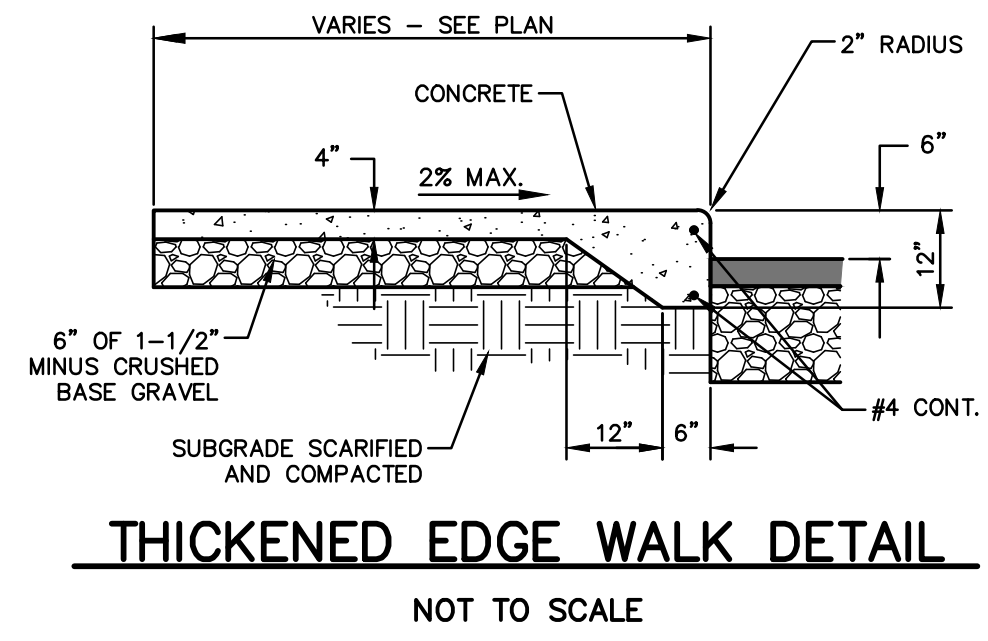
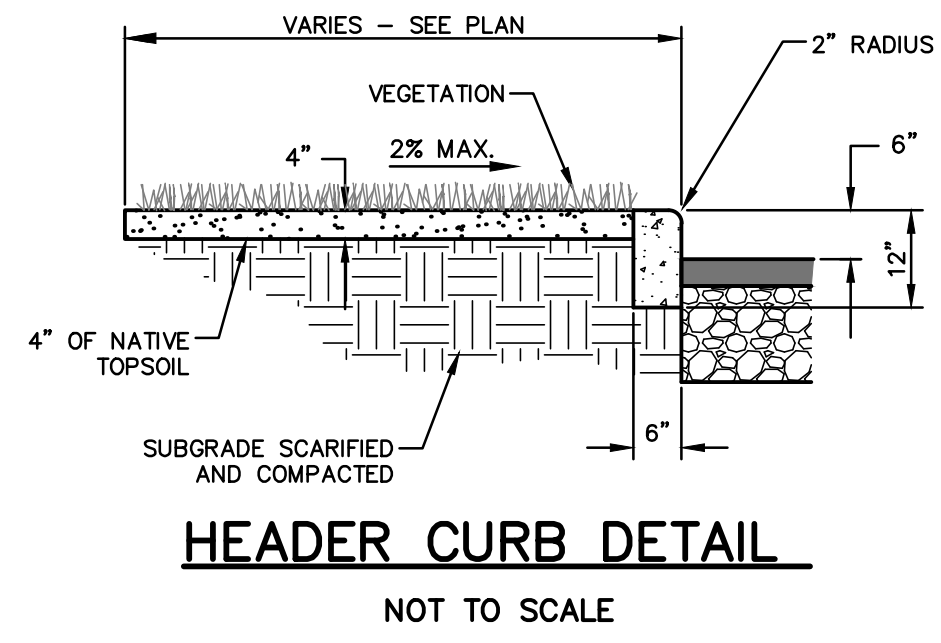
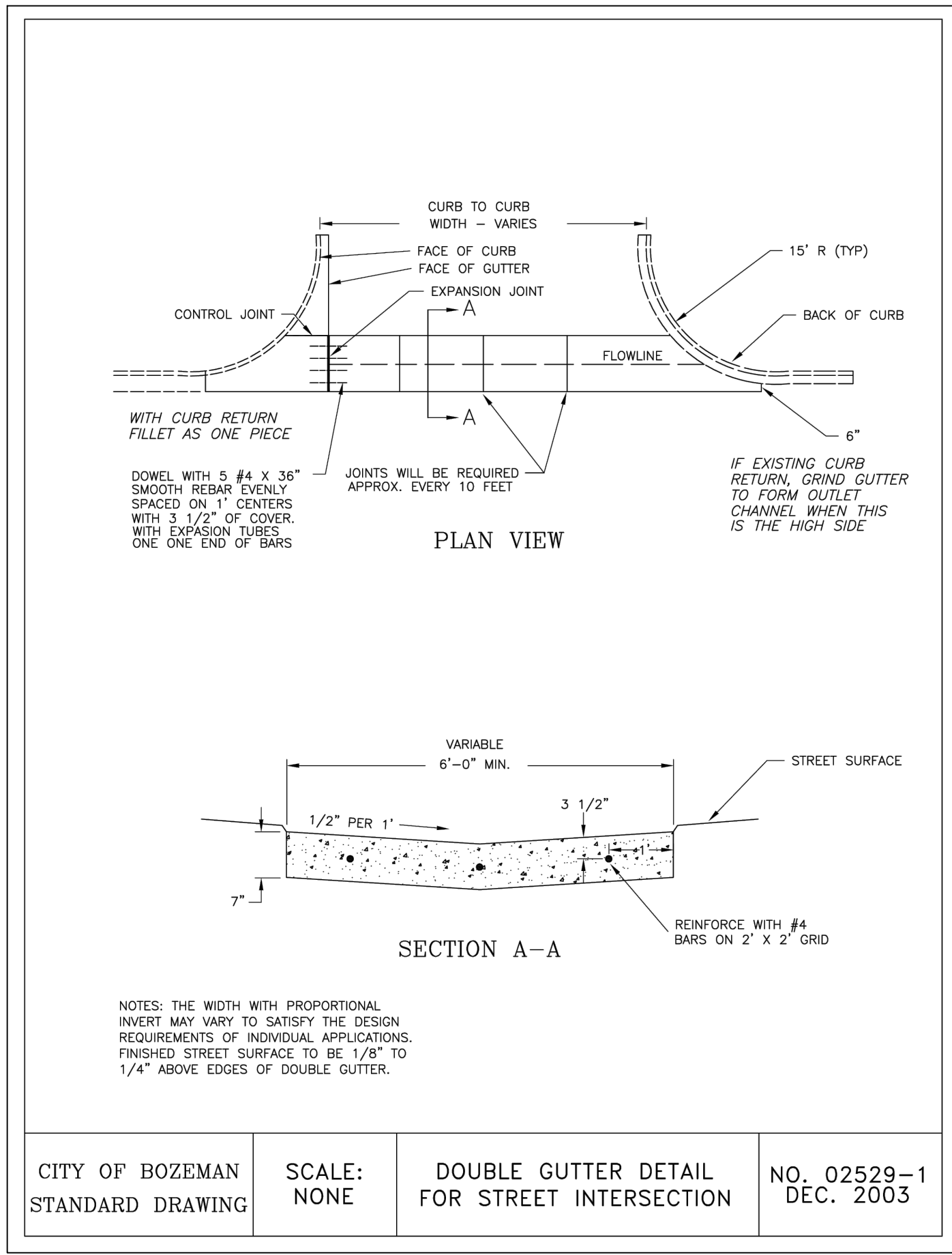
WEST CLEVELAND STREET



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ATKINSON QUADRANGLE EXTERIOR REPAIRS - PPA 23-0833

owner MONTANA STATE UNIVERSITY

project # 23123.00

revision \_\_\_\_\_ date \_\_\_\_\_

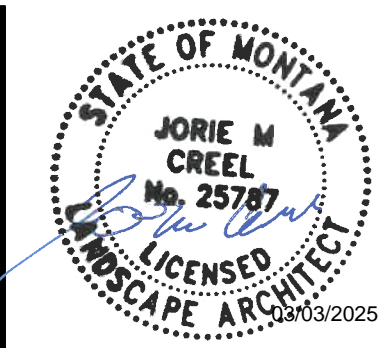
phase CONSTRUCTION DOCUMENTS



issue date 01.24.2025

C5.1

P:\2312\_MSU\_Student\_Housing\_Facilities\_Task\_#2\CADD\_C3D\PRODUCTION\_DWG\2312\_QUAD\_DETAILS.dwg Feb 24, 2025 - 11:11am



sheet **TREE PROTECTION PLAN**  
 project **ATKINSON QUADRANGLE EXTERIOR REPAIRS - PPA# 23-0833**  
 owner **MONTANA STATE UNIVERSITY**

project # **23123.00**  
 revision \_\_\_\_\_ date \_\_\_\_\_

phase **CONSTRUCTION DOCUMENTS**



issue date **02.24.2025**

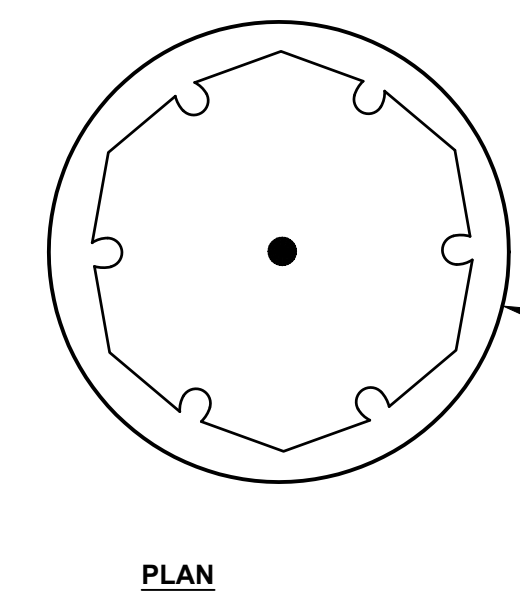
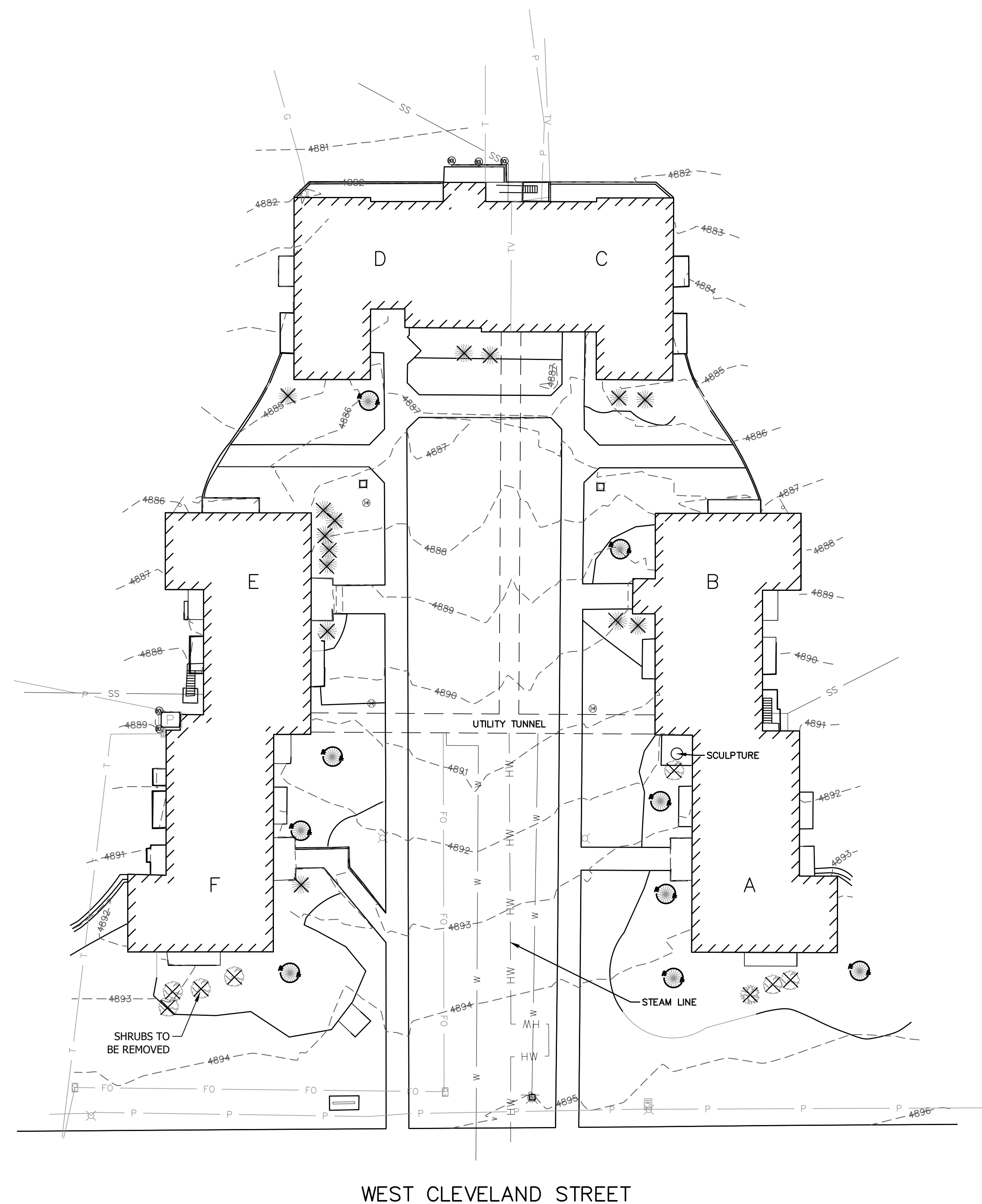
**L1.1**

**LEGEND**

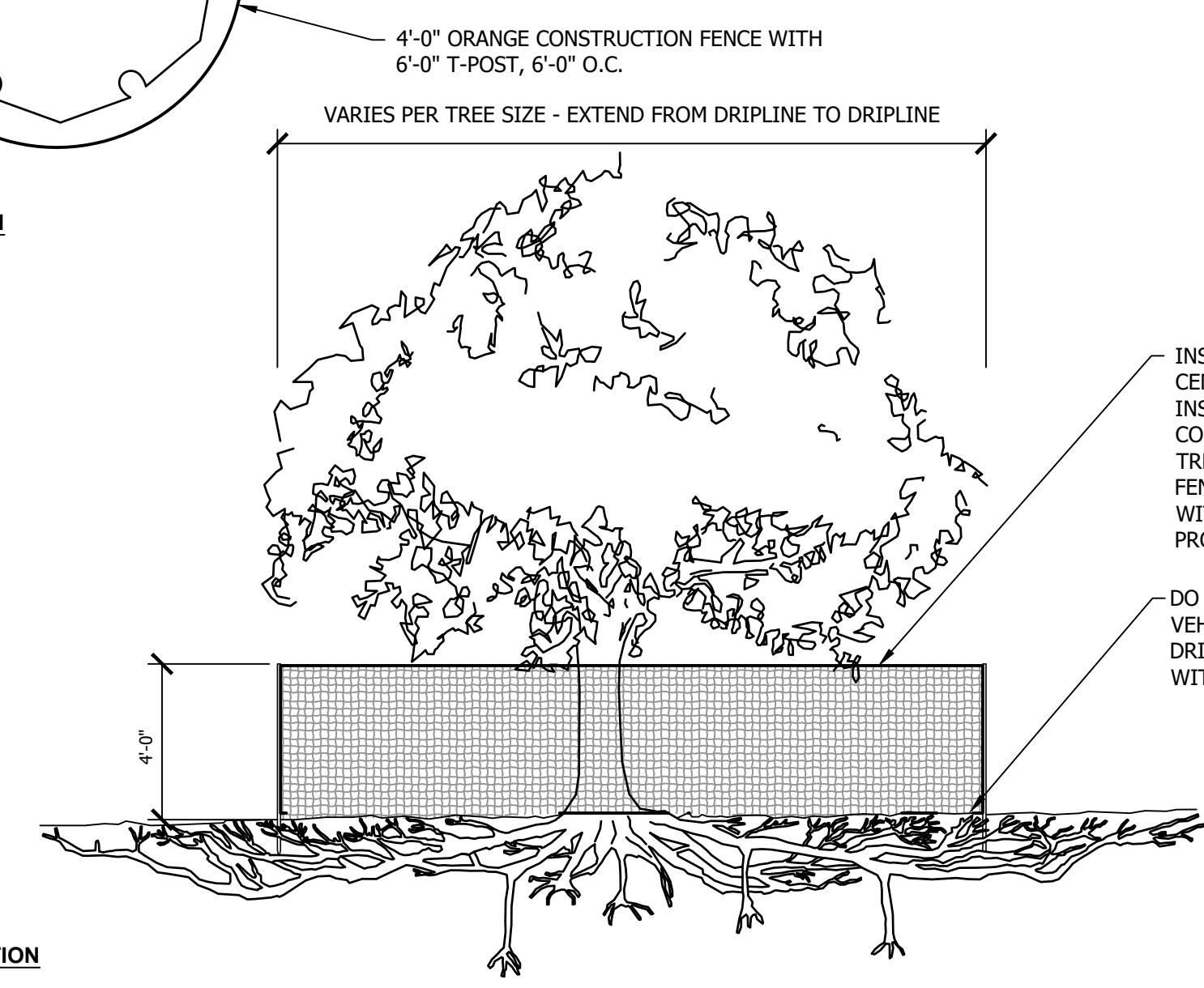
- EXISTING TREE PROTECT IN PLACE
- EXISTING TREE TO BE REMOVED (TOTAL TREES REMOVED = 18)

**TREE PROTECTION NOTES**

1. TREE REMOVAL BY CONTRACTOR.
2. PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITY, ALL TREES TO REMAIN WITHIN THE CONSTRUCTION LIMITS SHALL BE TAGGED WITH ORANGE OR PINK SURVEYOR FLAGGING. OWNER'S REPRESENTATIVE SHALL VERIFY TAGGED TREES ARE THOSE TO BE PROTECTED.
3. ALL EXISTING VEGETATION WITHIN THE TREE PROTECTION ZONE SHALL REMAIN AND BE PROTECTED.
4. TREE STUMPS TO BE REMOVED WITH CLEARING AND GRUBBING.
5. NO CONSTRUCTION ACTIVITIES SHALL BE PERMITTED IN THE TREE PROTECTION ZONE. INCLUDING, BUT NOT LIMITED TO, MATERIALS STORAGE, TRUCK OR MATERIALS WASHOUT, OR OTHER SITE WORK ASSOCIATED WITH THIS PROJECT.
6. DAMAGE TO TREES OR BRANCHES DURING CONSTRUCTION ACTIVITIES, WHETHER FROM THE GROUND OR OVERHEAD CRANE, SHALL INCUR A FINE OF \$500 PER OCCURRENCE. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY UPON OCCURRENCE OF DAMAGE.
7. DO NOT CHANGE OR ALTER GRADES WITHIN THE TREE PROTECTION ZONE.
8. CUT OFF EXPOSED ROOTS WHERE FOUND ALONG GRADING AND CLEARING LIMITS. CLEANLY CUT ROOTS, AVOIDING TEARS. COVER ALL EXPOSED ROOTS WITH ORGANIC MULCH, COMPOST OR TOPSOIL.
9. DEMOLITION AND REMOVAL ACTIVITIES SHALL AVOID TREE PROTECTION AREAS AND AVOID BRANCHES OF TREES TO REMAIN.
10. CONTRACTOR SHALL REMOVE AND DISPOSE OF OFF SITE ALL TREE LIMBS, TRUNKS, AND STUMPS.



PLAN

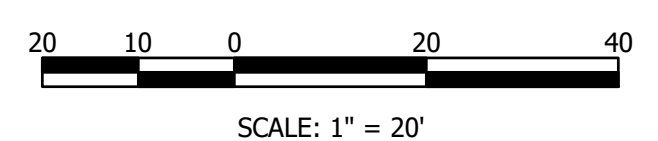


SECTION

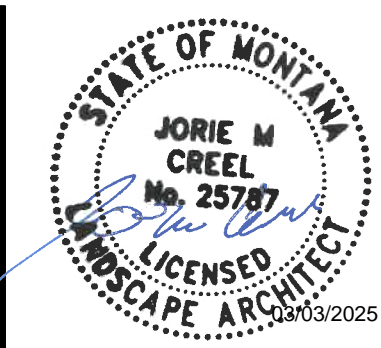
**NOTES:**

1. IN AREAS WHERE GRADING EXTENDS INTO EXISTING TREE DRIPLINES, CONTRACTOR SHALL HAND GRADE.
2. REMOVAL OF TREE PROTECTION FENCE DURING CONSTRUCTION WILL RESULT IN A \$500 PER INCIDENT, PER DAY FINE TO THE CONTRACTOR.
3. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
4. ANY DAMAGED FENCE SHALL BE REPAIRED ON A DAILY BASIS.
5. DEAD TREES, SHRUBS, OR UNDERGROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. THERE SHALL BE NO SOIL DISTURBANCE UNDER THE DRIPLINE OF THE TREE TO REMAIN.
6. BOULEVARD TREE PROTECTION FENCING TO BE ADJUSTED TO REFLECT THE WIDTH OF THE TREE LAWN OR TREE GRATE AREA WHERE PROVIDING FENCING TO THE DRIPLINE EXTENTS IS NOT POSSIBLE.
7. PROVIDE SUPPLEMENTAL WATER DURING CONSTRUCTION.

**1 TREE PROTECTION**  
N.T.S.



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project # **23123.00**

revision \_\_\_\_\_ date \_\_\_\_\_

phase  
**CONSTRUCTION DOCUMENTS**



issue date  
**02.24.2025**

**L1.2**

**LEGEND**

	GK	GYMNOCLADUS DIOICUS / KENTUCKY COFFEETREE	3" CAL	3
	QR2	QUERCUS RUBRA / NORTHERN RED OAK	3" CAL	2
	UE	ULMUS DAVIDIANA JAPONICA 'MORTON' / ACCOLADE® ELM	3" CAL	3
	UP	ULMUS X 'MORTON GLOSSY' / TRIUMPH™ ELM	3" CAL	2
<b>SHRUBS</b>				
	AS	AMELANCHIER ALNIFOLIA / SERVICEBERRY	5 GAL	7
	ES	EUONYMUS ALATUS 'SELECT' / FIREBALL® BURNING BUSH	5 GAL	11
	NF	NEPETA X FAASSENII / CATMINT	5 GAL	15
	PP2	PRUNUS BESSEYI 'P011S' / PAWNEE BUTTES® SAND CHERRY	5 GAL	7
	RG	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	5 GAL	22
	SA	SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY	5 GAL	8
<b>GRASSES</b>				
	HS	HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS	2 GAL	14
	PV	PANICUM VIRGATUM / SWITCH GRASS	2 GAL	6
<b>SYMBOL</b>	<b>CODE</b>	<b>BOTANICAL / COMMON NAME</b>	<b>CONT</b>	<b>QTY</b>
	OM	ORGANIC MULCH	MULCH	6,114 SF

EXISTING TREE

**GENERAL NOTES**

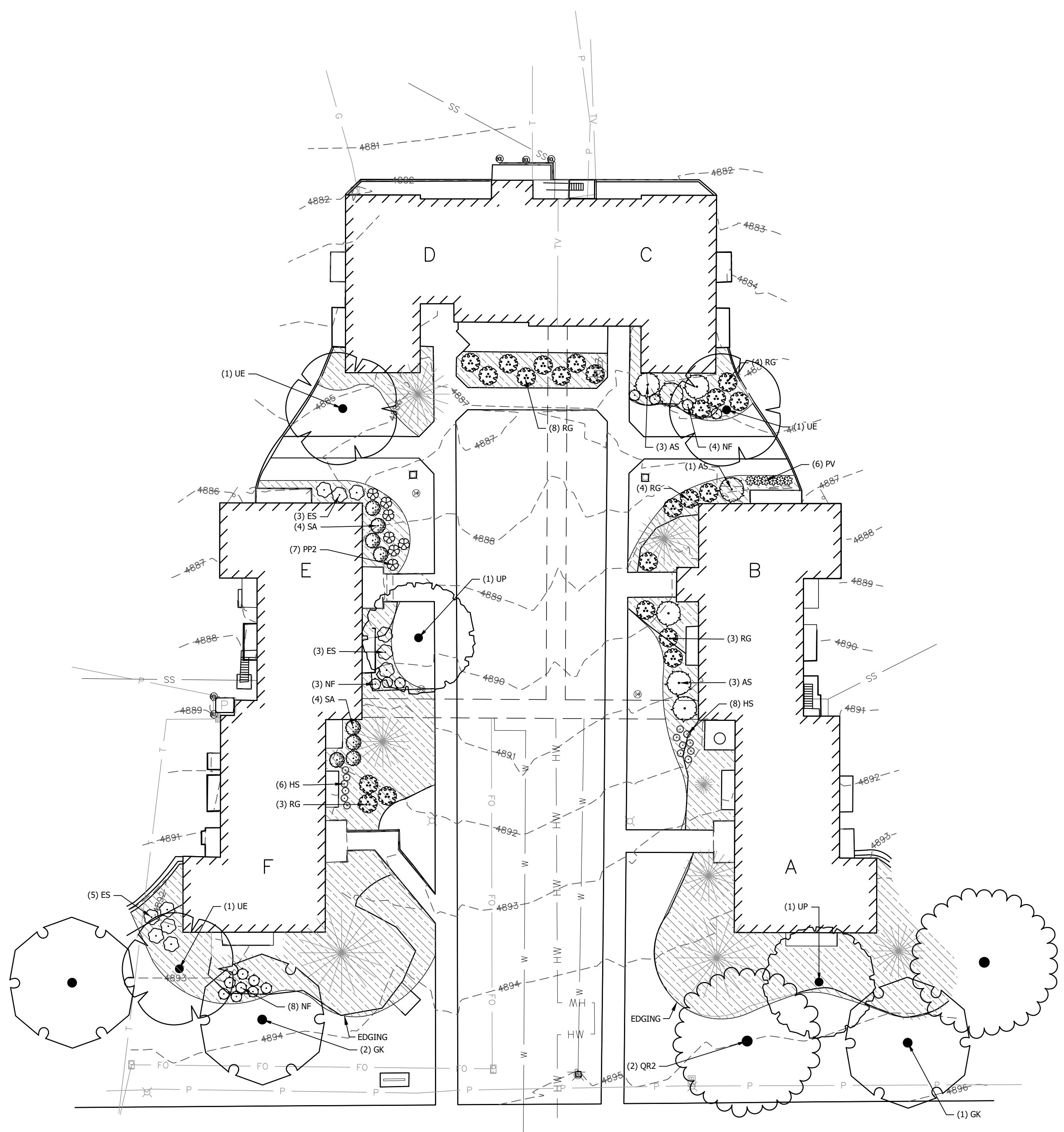
1. THE CONTRACTOR SHALL OBTAIN, AT THEIR OWN EXPENSE, APPLICABLE LICENSES, STANDARDS, PERMITS, ETC. WHICH ARE NECESSARY TO PERFORM THE WORK.
2. THE CONTRACTOR SHALL LOCATE, CLEARLY MARK AND MAINTAIN EXISTING UTILITIES ON THE SITE PRIOR TO WORK START UP. CALL FOR UTILITY LOCATES PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND REPAIR OF UTILITIES IF DAMAGED. REPAIR SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
4. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY DEVIATION FROM THESE PLANS MUST BE APPROVED BY OWNER OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
5. LIMIT OF WORK IS AS INDICATED ON THE PLANS.
6. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.
7. TREE STUMPS TO BE REMOVED WITH CLEARING AND GRUBBING.

**PLANTING NOTES**

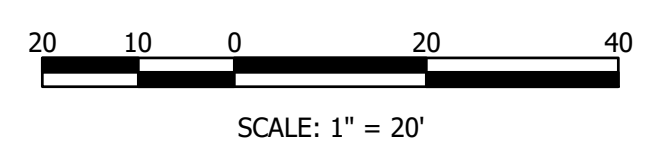
1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKE PRECEDENCE OVER WRITTEN QUANTITIES.
2. ALL LANDSCAPE AREAS SHALL RECEIVE SOIL PREPARATION AS SPECIFIED.
3. ALL EXISTING GRASS STAND AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE SOIL PREPARED AND SEEDING BY THE CONTRACTOR.
4. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES.
5. ALL LANDSCAPE MATERIALS SHALL BE INSTALLED ACCORDING TO SOUND HORTICULTURAL PRACTICES AND AMERICAN NURSERY STANDARDS IN A MANNER DESIGNED TO ENCOURAGE QUICK ESTABLISHMENT AND HEALTHY GROWTH.
6. REPAIR DISTURBED AREAS BENEATH SHRUBS BY HAND.
7. REPAIR AND RESEED STAGING AREA.
8. CONTRACTOR SHALL COORDINATE IRRIGATION AND PLANTING WORK SUCH THAT INSTALLED IRRIGATION EQUIPMENT SHALL NOT CAUSE ADJUSTMENT OF PLANTING LOCATIONS CONTRARY TO THE PLANS. IF IRRIGATION EQUIPMENT IS INSTALLED IN LOCATIONS OBSTRUCTING THE INTENDED LOCATIONS OF THE PLANTINGS, NOTIFY THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
9. THE CONTRACTOR SHALL WARRANT ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
10. PLANTING BEDS TO BE AMENDED WITH A MIN. 12" DEPTH TOPSOIL PRIOR TO PLANTING.
11. AREAS TO BE SODDED TO BE AMENDED WITH A MIN. 4" DEPTH TOPSOIL PRIOR TO SODDING.
12. AREAS TO BE SEEDING TO BE AMENDED WITH A MIN. 2" DEPTH COMPOST PRIOR TO SEEDING.
13. ALL PLANTING MATERIAL SHALL BE APPROVED ON-SITE BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

**IRRIGATION NOTES**

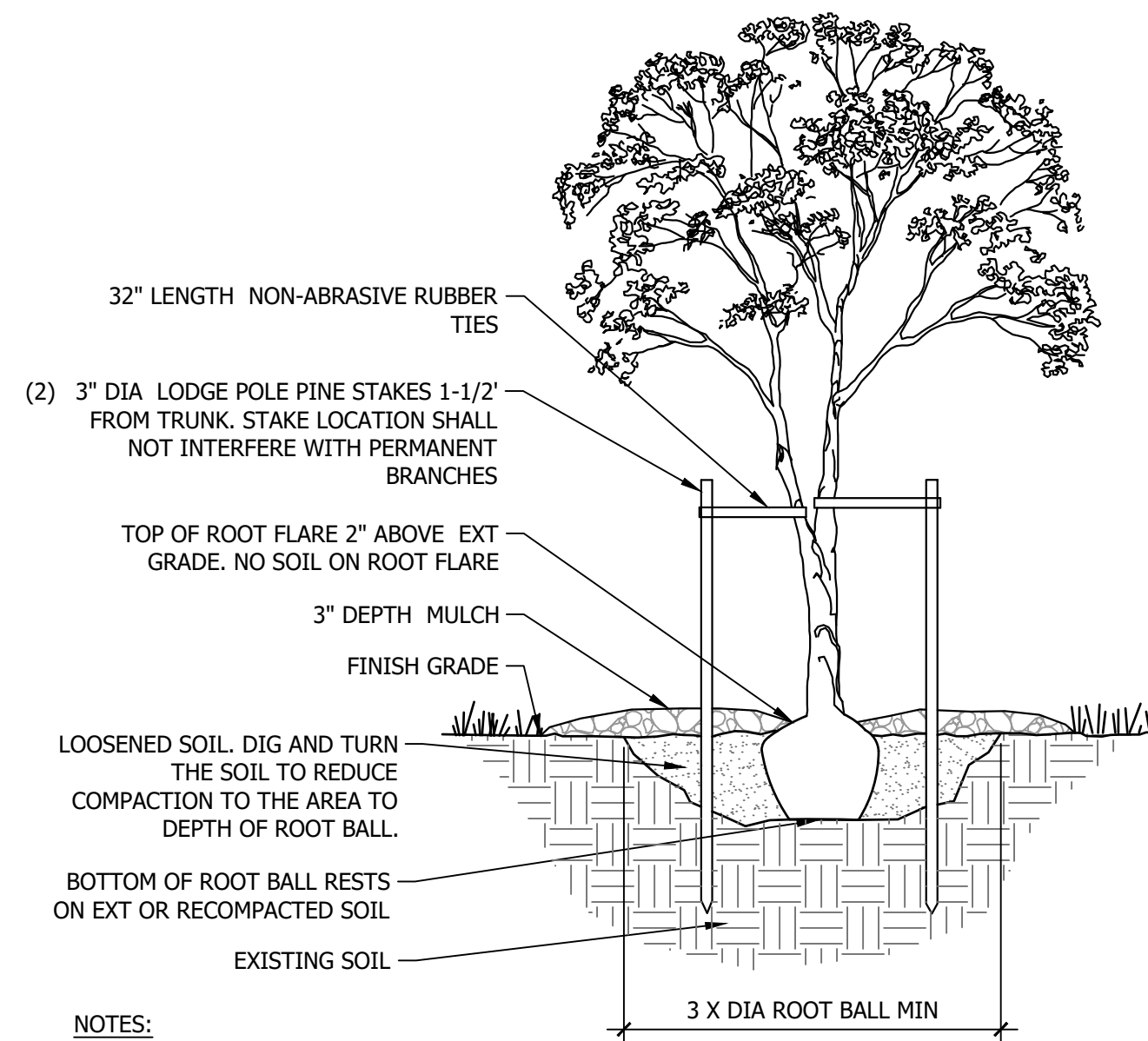
1. NEW TREES, SHRUBS AND GRASSES SHALL HAVE SUPPLEMENTAL WATER FOR THE FIRST 2 GROWING SEASONS.
2. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ADJUSTMENTS, ADDITIONS, DELETIONS TO THE EXISTING IRRIGATION SYSTEM.



WEST CLEVELAND STREET

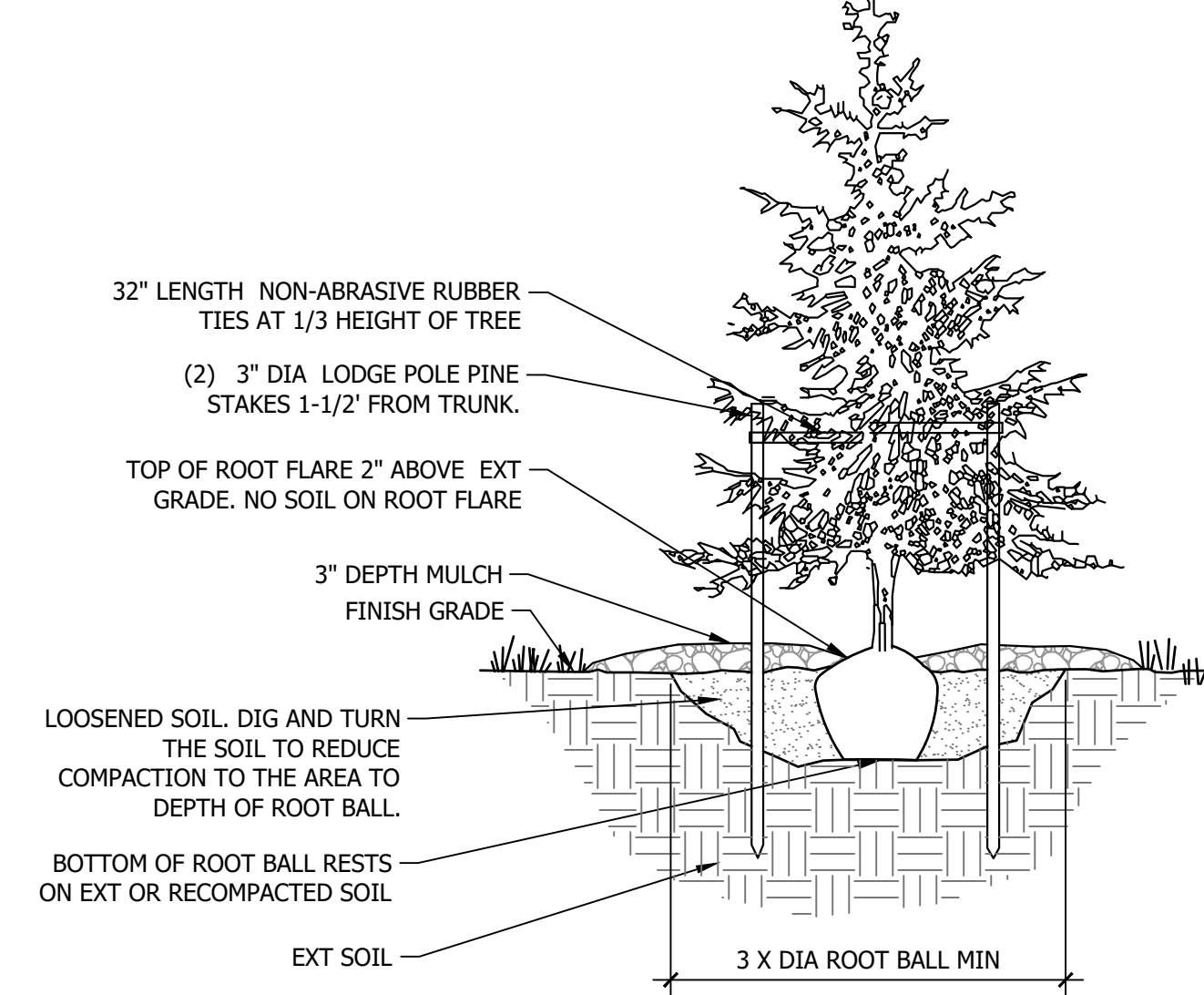






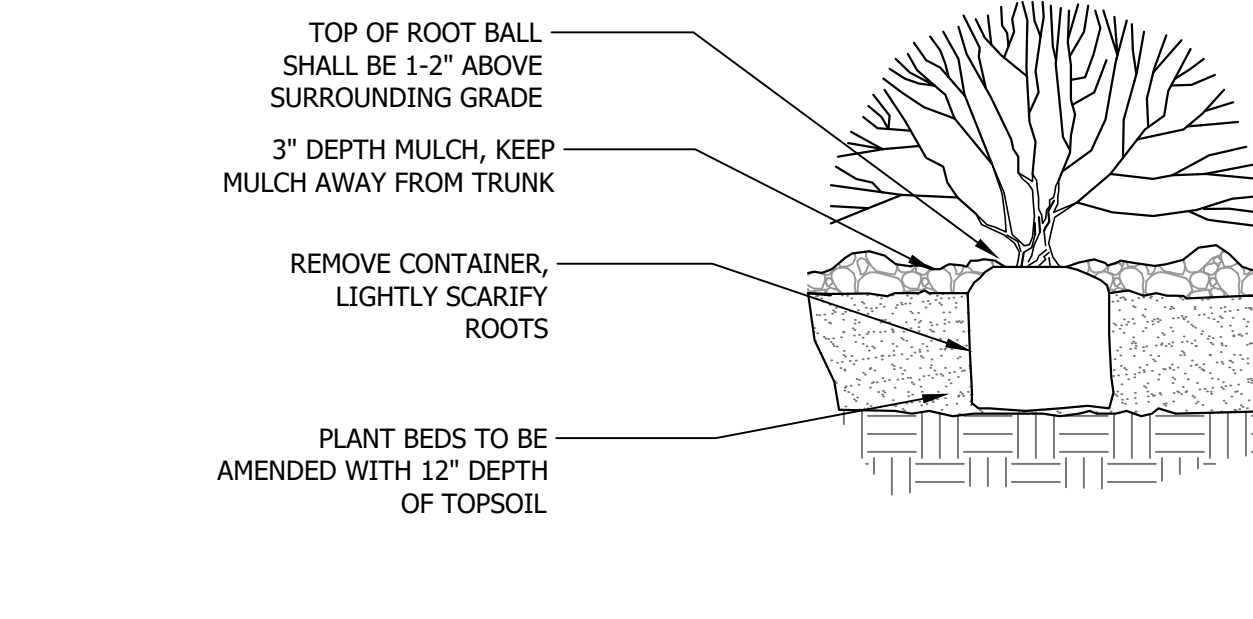
- NOTES:
1. REMOVE NURSERY STAKES.
  2. PRUNE DEAD OR DAMAGED LIMBS IMMEDIATELY AFTER PLANTING.
  3. REMOVE WIRE TIES AND BURLAP FROM ROOT BALL.
  4. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN PLANTING PIT HAS BEEN BACKFILLED, POUR WATER AROUND ROOT BALL TO SETTLE THE SOIL.
  5. BACKFILL WITH AMENDED SOIL.
  6. REMOVE STAKES FOLLOWING FIRST GROWING SEASON.
  7. RAKE SUBGRADE AND REMOVE ALL DEBRIS GREATER THAN 1/2" IN DIA. INCLUDING ROCKS, CONCRETE, ORGANIC DEBRIS, AND OR CONSTRUCTION DEBRIS.
  8. PROVIDE SUPPLEMENTAL WATER FOR THE FIRST YEAR FOLLOWING INSTALLATION.

**1 DECIDUOUS TREE**  
 N.T.S.



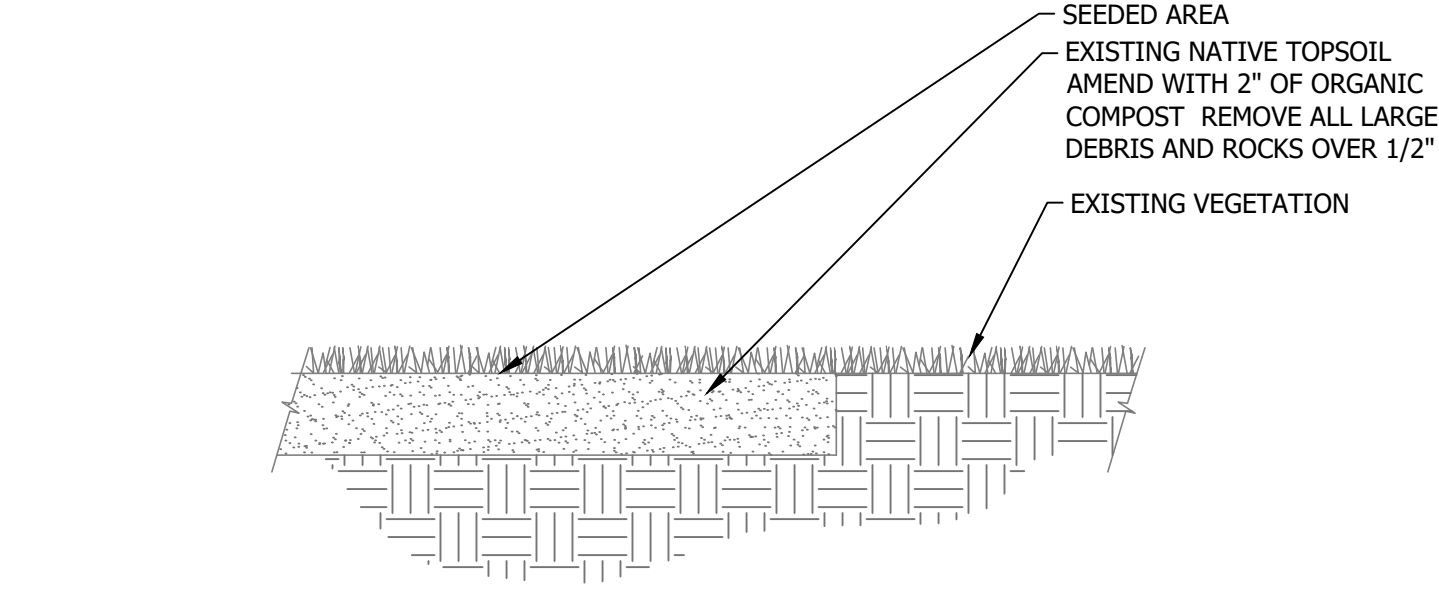
- NOTES:
1. REMOVE NURSERY STAKES.
  2. PRUNE DEAD OR DAMAGED LIMBS IMMEDIATELY AFTER PLANTING.
  3. REMOVE WIRE TIES AND BURLAP FROM TOP 1/2 OF ROOT BALL.
  4. REMOVE ALL BASKETS.
  5. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN PLANTING PIT HAS BEEN BACKFILLED, POUR WATER AROUND ROOT BALL TO SETTLE THE SOIL.
  6. BACKFILL WITH AMENDED SOIL.
  7. REMOVE STAKES FOLLOWING FIRST GROWING SEASON.
  8. RAKE SUBGRADE AND REMOVE ALL DEBRIS GREATER THAN 1/2" IN DIA. INCLUDING ROCKS, CONCRETE, ORGANIC DEBRIS, AND OR CONSTRUCTION DEBRIS.
  9. PROVIDE SUPPLEMENTAL WATER FOR THE FIRST YEAR FOLLOWING INSTALLATION.

**2 CONIFEROUS TREE**  
 N.T.S.



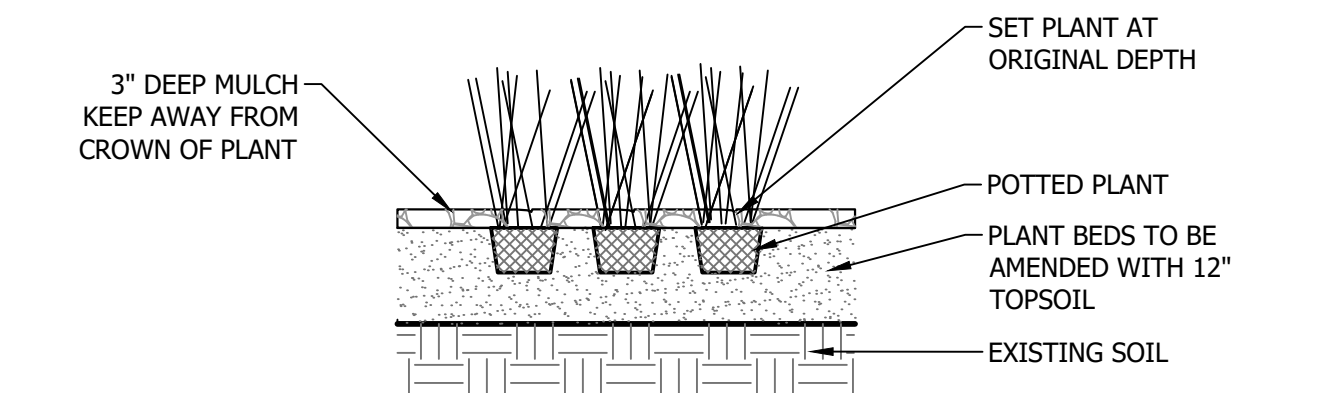
- NOTES:
1. SHRUBS WITH BROKEN OR CRUMBLING ROOT BALLS WILL BE REJECTED. CONTAINER REMOVAL WILL NOT BE AN EXCUSE FOR DAMAGED ROOT BALLS.
  2. TOP OF MULCH TO BE 1" BELOW ADJ WALKWAY, CURB, EDGING, OR OTHER SURFACE.
  3. PRUNE OUT ALL DAMAGED OR DEAD WOOD.
  4. ALL PLANT MATERIAL TO BE INSPECTED UPON DELIVERY. REJECTED MATERIALS TO BE IMMEDIATELY RETURNED TO SOURCE.
  6. RAKE SUBGRADE AND REMOVE ALL DEBRIS GREATER THAN 1/2" IN DIA. INCLUDING ROCKS, CONCRETE, ORGANIC DEBRIS, AND OR CONSTRUCTION DEBRIS.

**3 SHRUB PLANTING**  
 N.T.S.



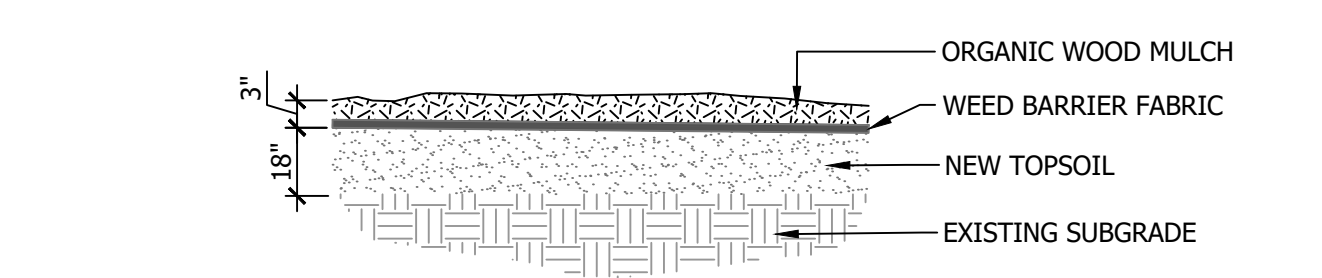
- NOTE:
1. EXISTING TOPSOIL WILL BE PLACED BY SITE WORK CONTRACTOR TO ROUGH GRADE
  2. LANDSCAPE CONTRACTOR SHALL AMEND SOIL WITH 2" DEPTH OF ORGANIC COMPOST AND TILL INTO EXISTING TOPSOIL AND PREPARE FOR SEEDING.
  3. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL GRADING AND SEEDING PREPARATION.
  4. SEED MIX TO BE APPROVED BY MONTANA STATE UNIVERSITY.

**4 SEEDING**  
 N.T.S.

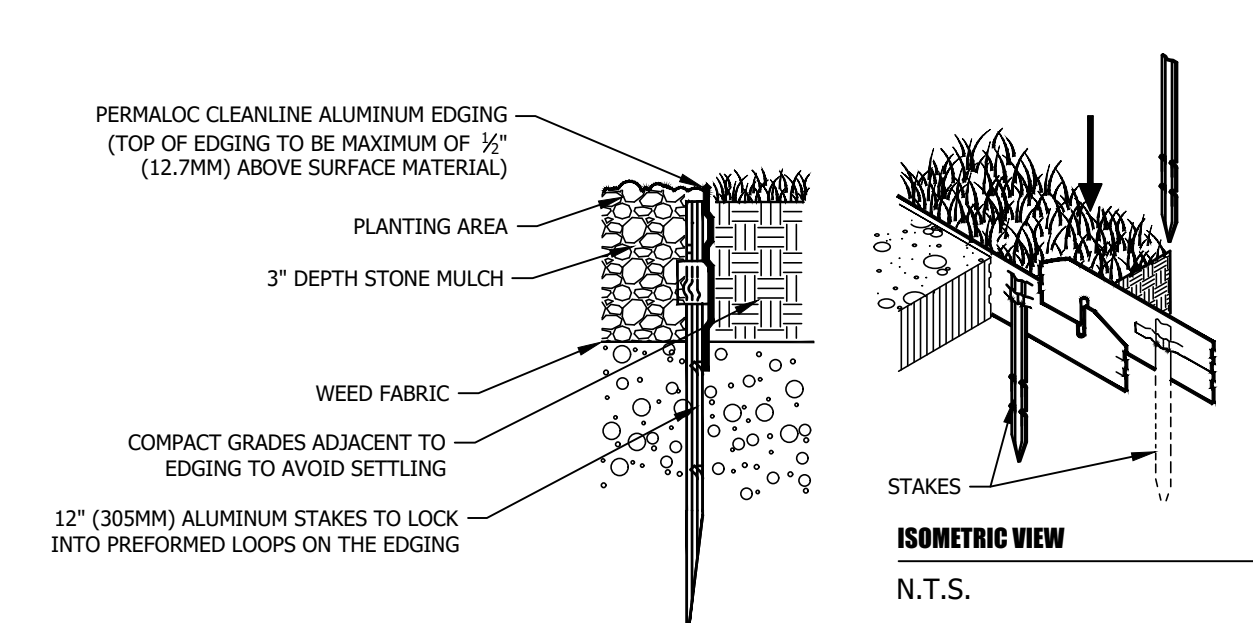


- NOTES:
1. REMOVE SPENT FLOWERS PRIOR TO PLANTING.
  2. LOOSEN ROOT MASS AT BOTTOM OF ROOTBALL.
  3. STRIP TOP OF ROOTBALL 1/4" OF SURFACE GROWING MEDIA AND COVER WITH 1/4" PLANTING MIX PLUS SURFACE MULCH.
  4. QUANTITY AND SPACING AS NOTED IN PLANT SCHEDULE.

**5 PERENNIAL/GRASS/GROUNDCOVER PLANTING**  
 N.T.S.

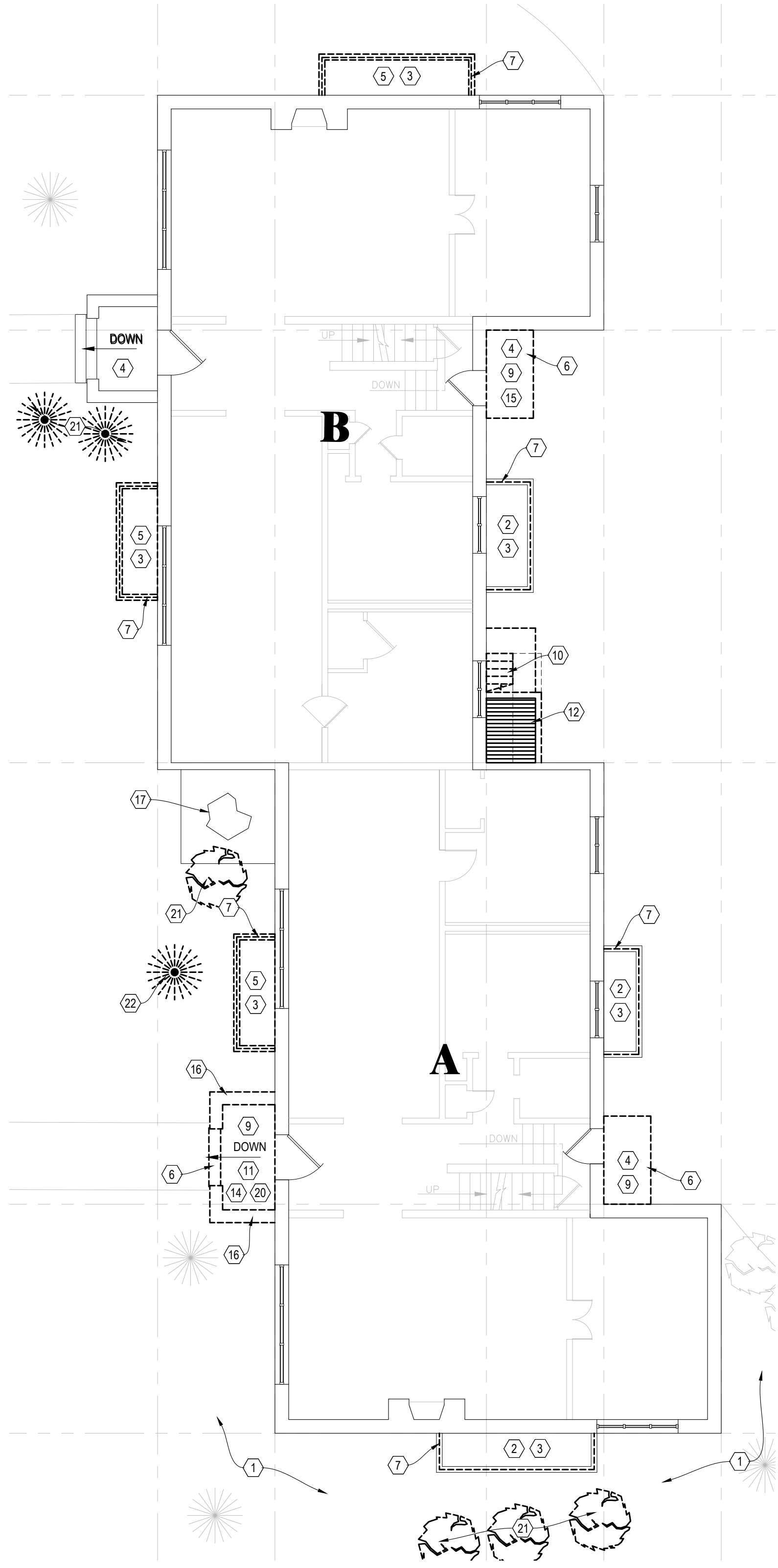


**6 ORGANIC WOOD MULCH**  
 N.T.S.

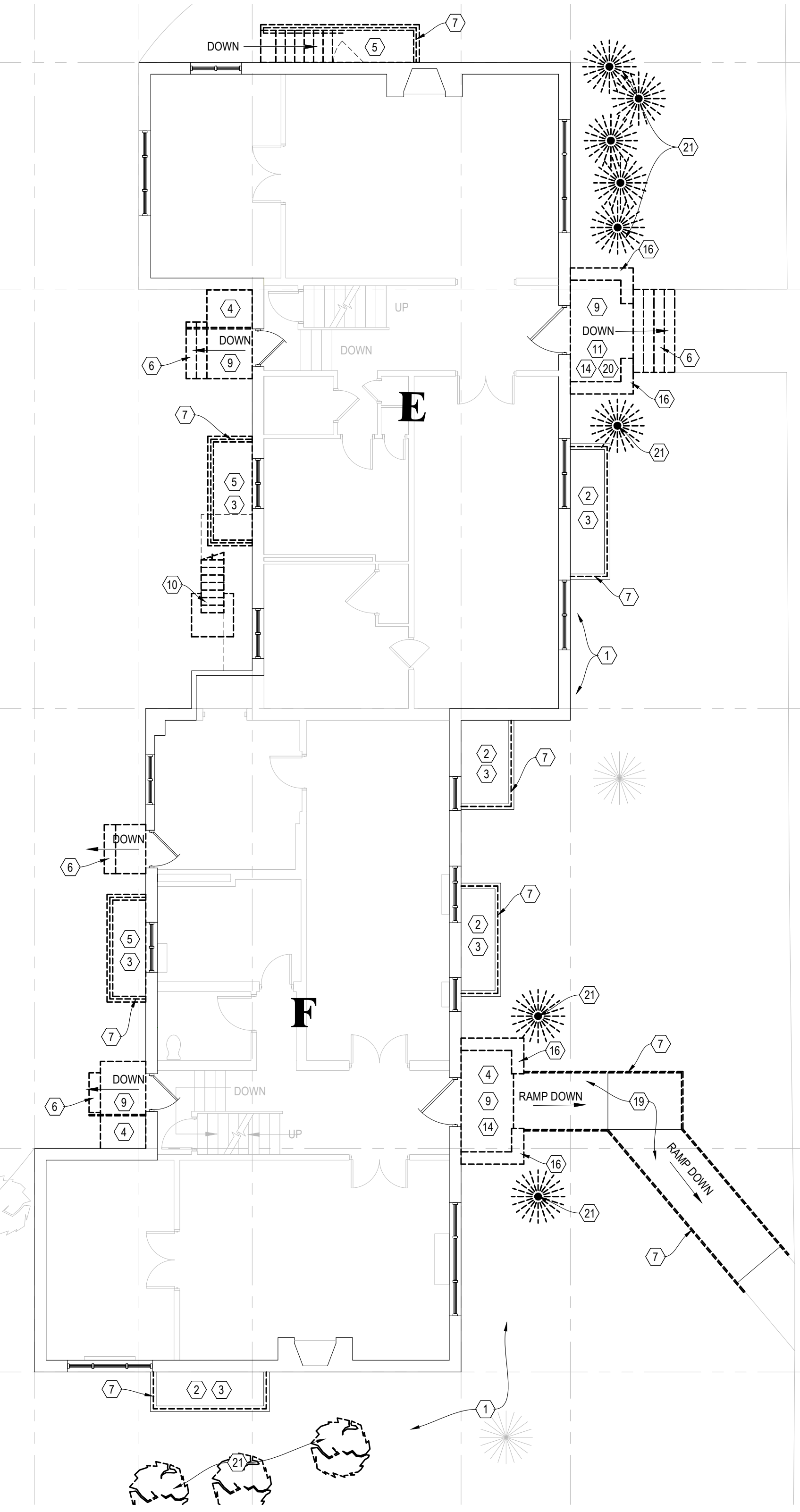


- NOTES:
1. SUBMIT SAMPLE AND SPECIFICATION OF EDGER FOR APPROVAL
  2. EDGER CORNERS SHALL BE BENT TO REQUIRED ANGLE TO FORM CONTINUOUS EDGER. CORNER JOINTS NOT ACCEPTABLE

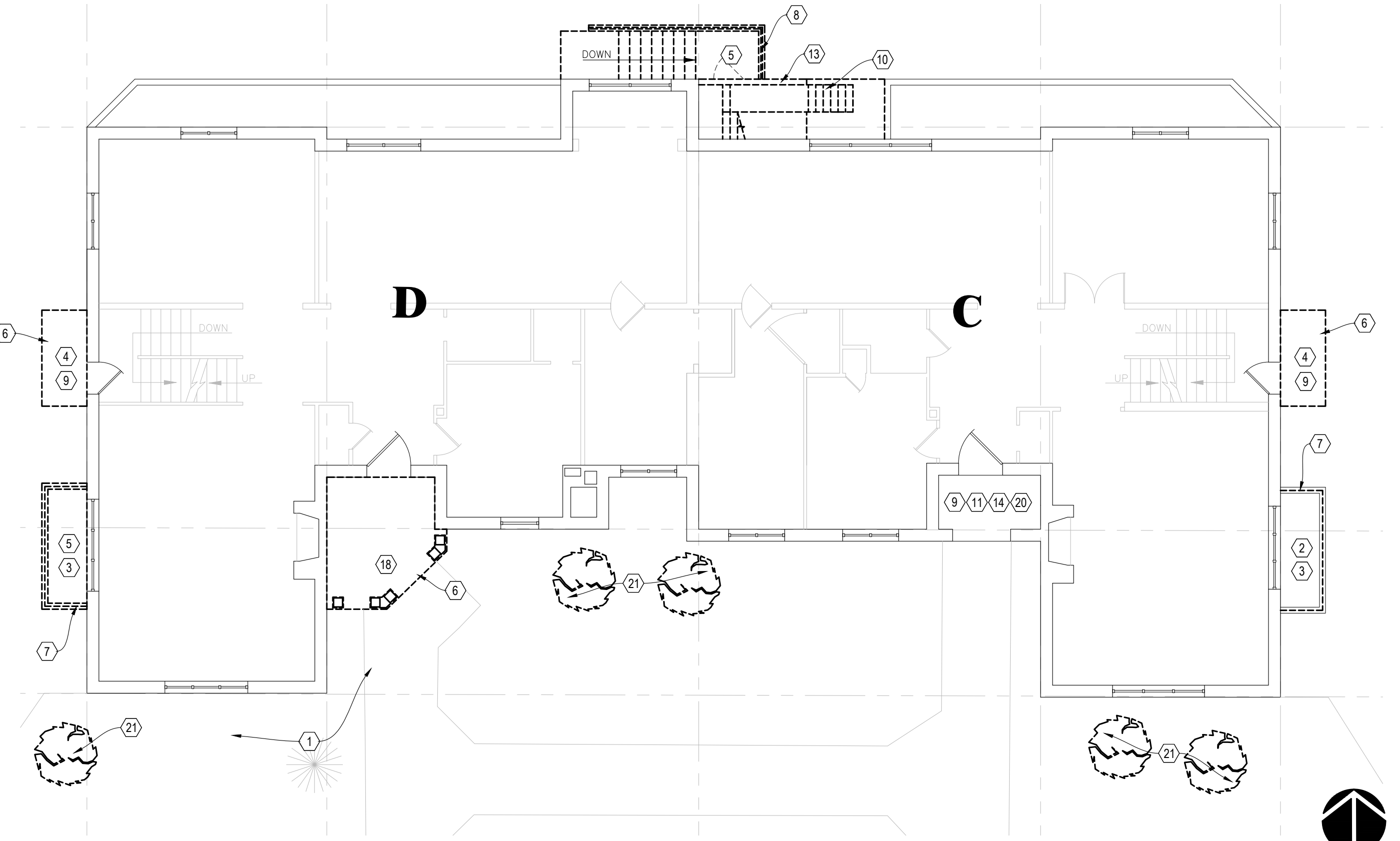
**7 EDGING ALUMINUM**  
 N.T.S.



**9** QUAD AB - FLOOR PLAN  
D2.1 : D2.1 1/8" = 1'-0"



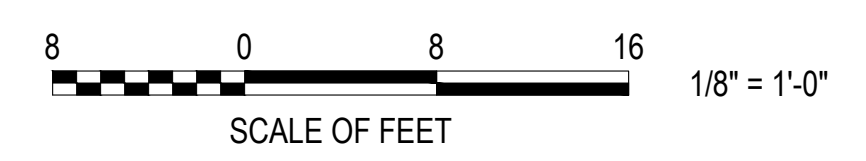
**10** QUAD EF - FLOOR PLAN  
D2.1 : D2.1 1/8" = 1'-0"

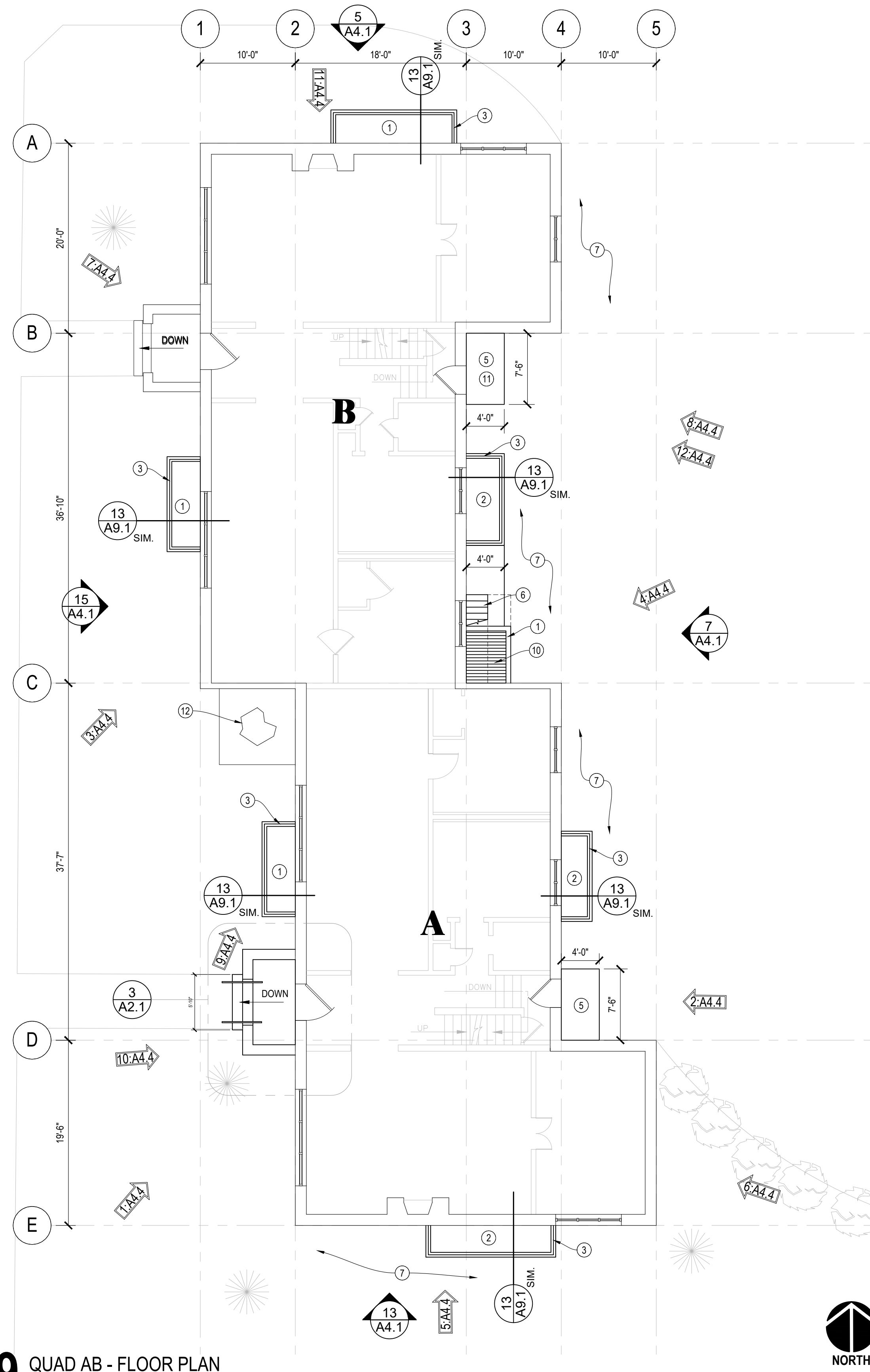


**3** QUAD CD - FLOOR PLAN  
D2.1 : D2.1 1/8" = 1'-0"

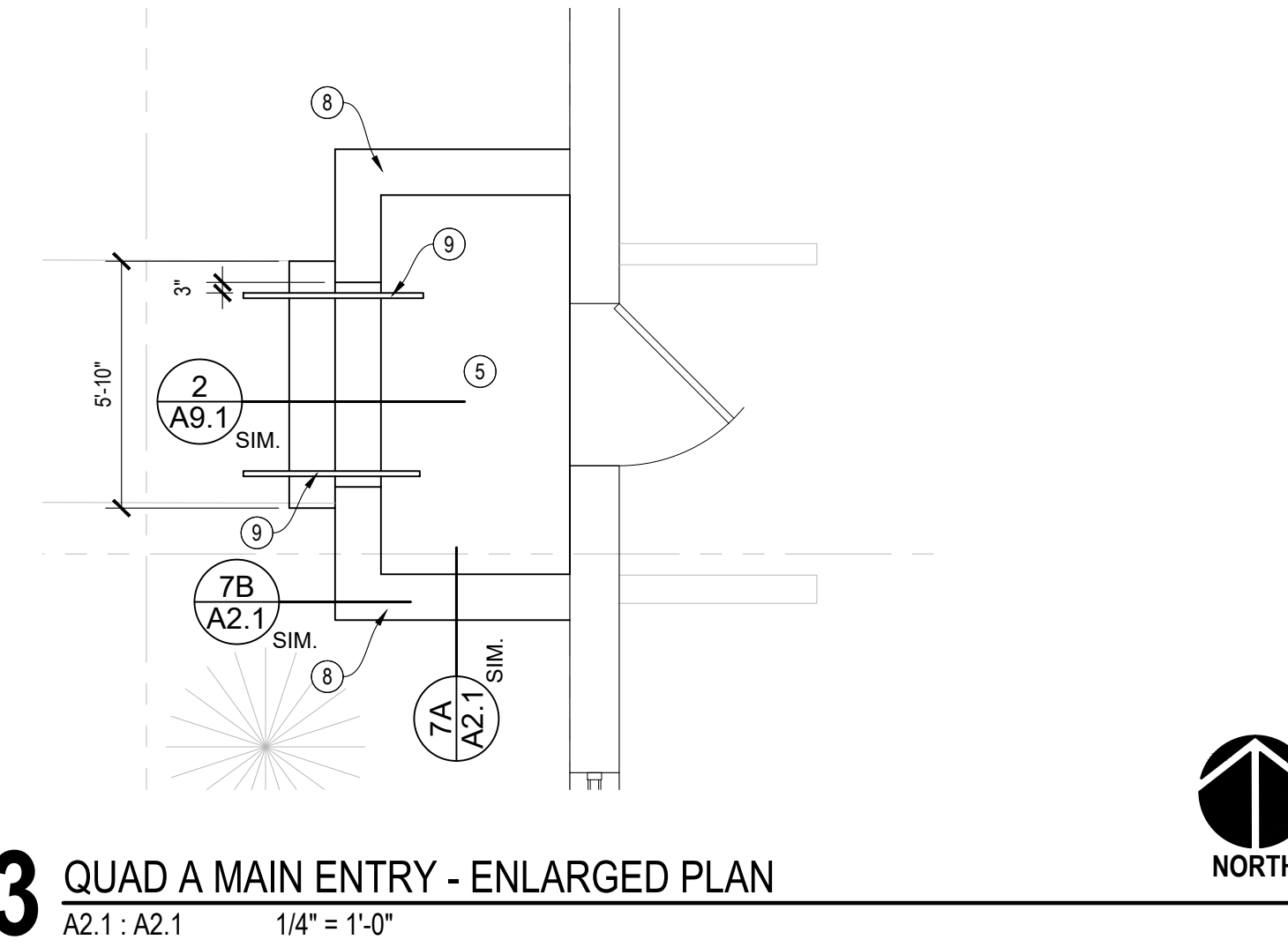
**# KEYNOTES**

- (1) TRIM OVERHANGING AND ENCRANCHING VEGETATION ADJACENT TO BUILDINGS. ACHIEVE MINIMUM 24" SEPARATION FROM STRUCTURES. TYP. ADDITIONALLY REMOVE VEGETATION INDICATED OR REQUIRED.
- (2) (E) WINDOW WELL / STAIR WELL TO REMAIN. PREPARE AREA FOR REPAIRS AND (N) CONCRETE CURB - SEE STRUCTURAL.
- (3) CAREFULLY REMOVE AND SALVAGE (E) WINDOWS AT WINDOW WELL. WINDOWS TO BE RESTORED, REFINISHED, AND PREPARED FOR REINSTALLATION IN ORIGINAL LOCATION. SEE A4.1-A4.3 FOR WINDOW ARRANGEMENT AND COUNT.
- (4) ALTERNATE 2 - CAREFULLY REMOVE (E) COUNTERFLASHING AND PORCH ROOF TO SOLID STRUCTURE. PREPARE FOR INSTALLATION OF (N) WOOD SHINGLE ROOF ASSEMBLY AND COUNTERFLASHING IN NEW WORK.
- (5) DOCUMENT EXISTING CONDITIONS AND CAREFULLY REMOVE (E) WINDOW OR STAIR WELL FOR REPLACEMENT IN-KIND. PREPARE FOR NEW WORK.
- (6) ALTERNATE 2 - CAREFULLY REMOVE (E) CONCRETE STOOP IN ITS ENTIRETY AND PREPARE FOR NEW WORK.
- (7) CAREFULLY REMOVE (E) METAL RAILS, ATTACHMENTS, AND ACCESSORIES IN THEIR ENTIRETY.
- (8) CAREFULLY REMOVE AND SALVAGE (E) GUARDRAIL. REPAIR AND REFINISH. PREPARE FOR REINSTALLATION IN NEW WORK.
- (9) ALTERNATE 2 - REMOVE ALL DAMAGED OR DETERIORATED FINISHES AND STRUCTURE AT PORCHES TO SOLID CONSTRUCTION. REPAIR ELEMENTS AND PREPARE FOR (N) FINISH. CAREFULLY REMOVE AND SALVAGE (E) LIGHT FIXTURES AS RECD. FOR REINSTALLATION.
- (10) CAREFULLY REMOVE ALL RUST AND REPAIR FIRE ESCAPE COMPONENTS IN-PLACE. COORDINATE NEW WORK WITH STRUCTURAL. PREPARE FOR NEW FINISH.
- (11) ALTERNATE 2 - CAREFULLY REMOVE AND DOCUMENT DETERIORATED BALLUSTER AND RAIL COMPONENTS ABOVE FOR IN-KIND REPLACEMENT IN NEW WORK.
- (12) CAREFULLY REMOVE RUSTED GRATE COVER AT FIRE ESCAPE, PREPARE FOR NEW WORK.
- (13) CAREFULLY REMOVE (E) CONCRETE PODIUM AND TOPPING SLAB IN ITS ENTIRETY. COORDINATE LIMITED REMOVAL, SALVAGE, AND REPAIR AND/OR SHORING OF FIRE ESCAPE COMPONENTS AFFECTED. PREPARE FOR REINSTALLATION.
- (14) ALTERNATE 2 - CAREFULLY REMOVE ALL DETERIORATED PORCH STRUCTURAL ELEMENTS. COORDINATE REPLACEMENT WITH STRUCTURAL IN-KIND.
- (15) ALTERNATE 2 - CAREFULLY REMOVE ALL SOFFIT FINISH - SALVAGE ALL SOUND MATERIAL. REMOVE PAINT, AND PREPARE FOR REINSTALLATION.
- (16) ALTERNATE 2 - DOCUMENT, LABEL, AND CAREFULLY REMOVE AND SALVAGE (E) BRICK AND GRANITE CAP. COORDINATE REINSTALLATION WITHIN THE WORK.
- (17) PROTECT (E) SCULPTURE IN-PLACE.
- (18) ALTERNATE 2 - DOCUMENT AND CAREFULLY REMOVE (E) PORCH IN ITS ENTIRETY FOR RECONSTRUCTION IN-KIND. SALVAGE GRANITE POST BASES AND SOUND BRICK FOR REINSTALLATION.
- (19) (E) RAMP TO REMAIN IN-PLACE.
- (20) ALTERNATE 2 - CAREFULLY REMOVE (E) ROOF ASSEMBLY TO SOLID STRUCTURE. PREPARE FOR INSTALLATION OF (N) MEMBRANE ROOF ASSEMBLY IN NEW WORK.
- (21) CAREFULLY REMOVE (E) TREE OR BUSH IN ITS ENTIRETY.
- (22) COORDINATE RELOCATION OF (E) TREE AND COMMEMORATIVE SIGNAGE WITH OWNER.

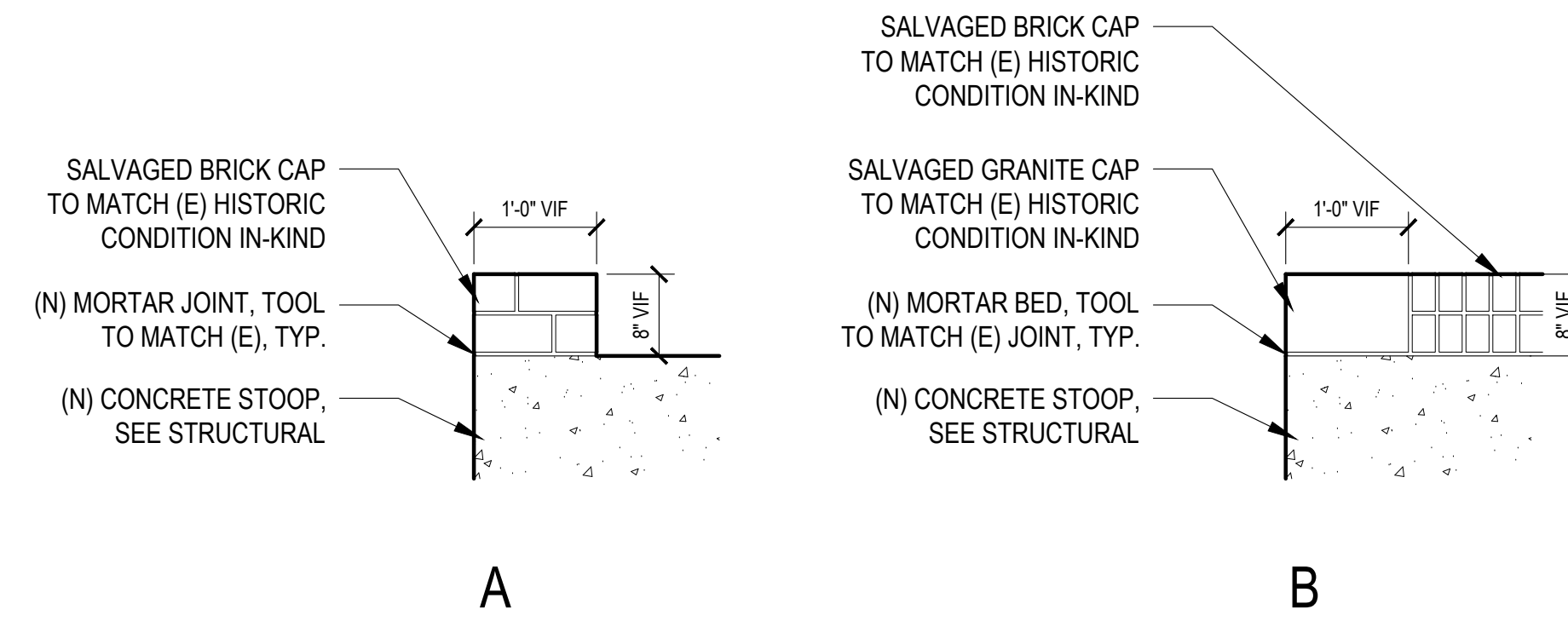




**9 QUAD AB - FLOOR PLAN**  
A2.1 : A2.1 1/8" = 1'-0"



**3 QUAD A MAIN ENTRY - ENLARGED PLAN**  
A2.1 : A2.1 1/4" = 1'-0"



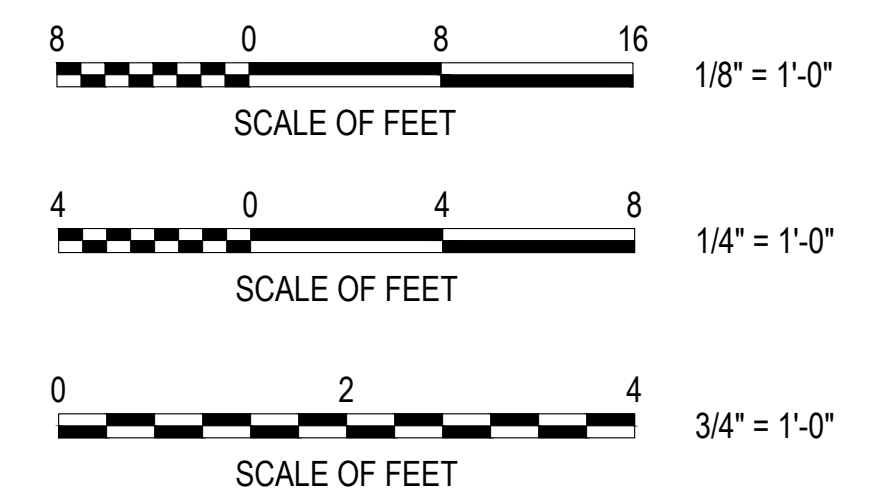
**7 TYPICAL BRICK AND GRANITE CAP AT PORCH**  
A2.1 : A2.1 3/4" = 1'-0"

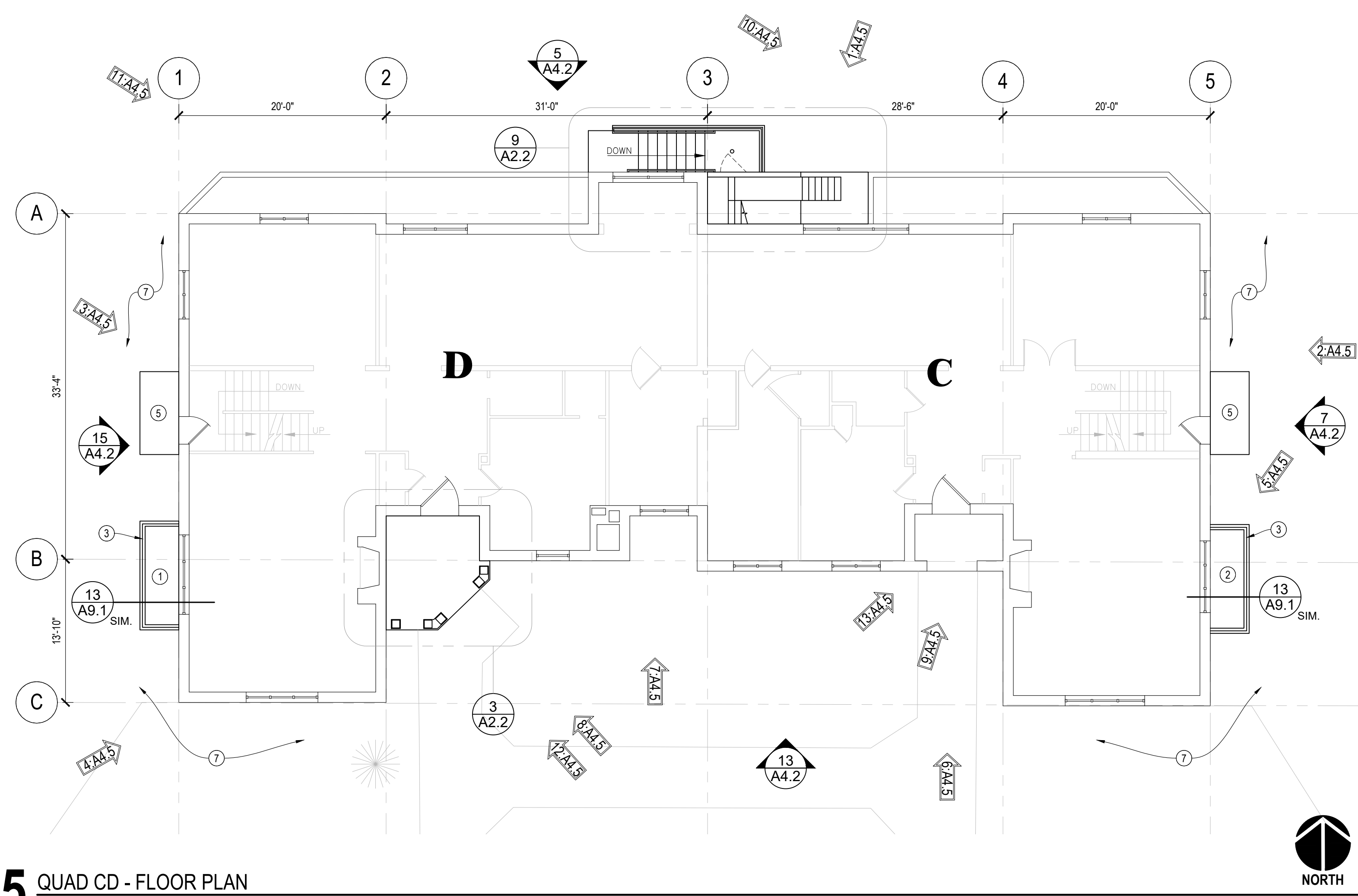
**# KEYNOTES**

- ① REPLACE CONCRETE WINDOW WELL WITH (N) CONCRETE WINDOW WELL. COORDINATE EXTENTS WITH EXISTING TO MATCH IN-KIND SIZE. COORDINATE (N) TOP ELEVATION WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
- ② STABILIZE AND REPAIR CRACKING/DAMAGED CONCRETE WINDOW WELL. REFERENCE STRUCTURAL REQUIREMENTS FOR ADDITIONAL INFORMATION. COORDINATE EXTENT. PROVIDE CONCRETE EXTENSION TO NEW ELEVATION - COORDINATE WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
- ③ PROVIDE AND INSTALL (N) METAL GUARDRAIL - POWDER COAT FINISH. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.
- ④ NOT USED.
- ⑤ ALTERNATE 2 - PROVIDE (N) CONCRETE STAIR AND LANDING TO MATCH IN-KIND HISTORIC. COORDINATE REINSTALLATION OF SALVAGED FINISH COMPONENTS IN ORIGINAL LOCATIONS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- ⑥ COORDINATE CLEANING AND REMOVAL OF ALL LOOSE, DAMAGED, AND DETERIORATED FINISH/RUST IN ITS ENTIRETY. REPAIR AND STRUCTURALLY STABILIZE FIRE ESCAPE COMPONENTS AND CONNECTIONS PER STRUCTURAL. PRIME AND PAINT IN ITS ENTIRETY. (N) CONCRETE LANDING AT BASE. SEE STRUCTURAL.
- ⑦ REGRADE TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND ASSOCIATED CONSTRUCTIONS - COORDINATE EXTENT AND FINISH WITH CIVIL FOR TIE-IN TO EXISTING.
- ⑧ ALTERNATE 2 - RECONSTRUCT BRICK AND GRANITE CAP TO MATCH (E) HISTORIC CONDITION IN-KIND. SEE 7/A2.1.
- ⑨ ALTERNATE 2 - (N) METAL HANDRAIL, POWDER COAT FINISH - SEE 2/A9.1. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.
- ⑩ (N) GALVANIZED METAL BAR GRATE COVER, 1" X 1/4" FLAT BAR SPACED AT 2" OC TO MATCH (E).
- ⑪ ALTERNATE 2 - INSTALL SALVAGED AND (N) SOFFIT FINISH AT PORCH TO MATCH IN-KIND HISTORIC. PRIME AND PAINT.
- ⑫ PROTECT (E) SCULPTURE IN-PLACE.

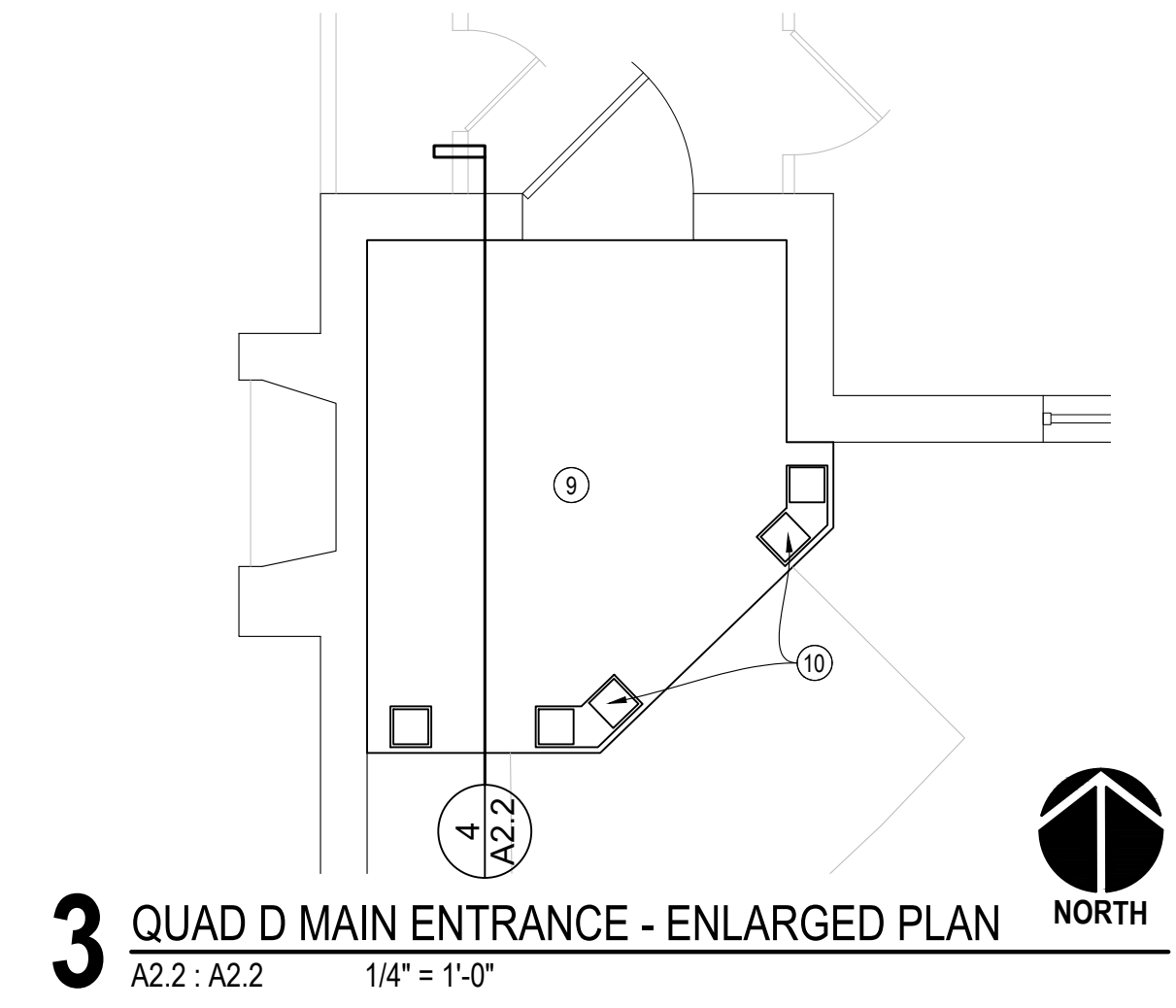
**GENERAL NOTES**

- 1. FIELD VERIFY DIMENSIONS. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- 2. REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3. SEE COVER FOR DESCRIPTION OF BASE BID AND ALTERNATES.
- 4. AS PART OF ALTERNATE 2 - CLEAN ALL BRICK AND CONCRETE PARGE COATINGS, AREAS OF MORE INTENSIVE CLEANING ARE CALLED OUT IN THE DRAWINGS.
- 5. REGRADE AROUND ENTIRE BUILDING AS REQUIRED TO DIRECT DRAINAGE AWAY FROM THE BUILDING. SEE CIVIL.

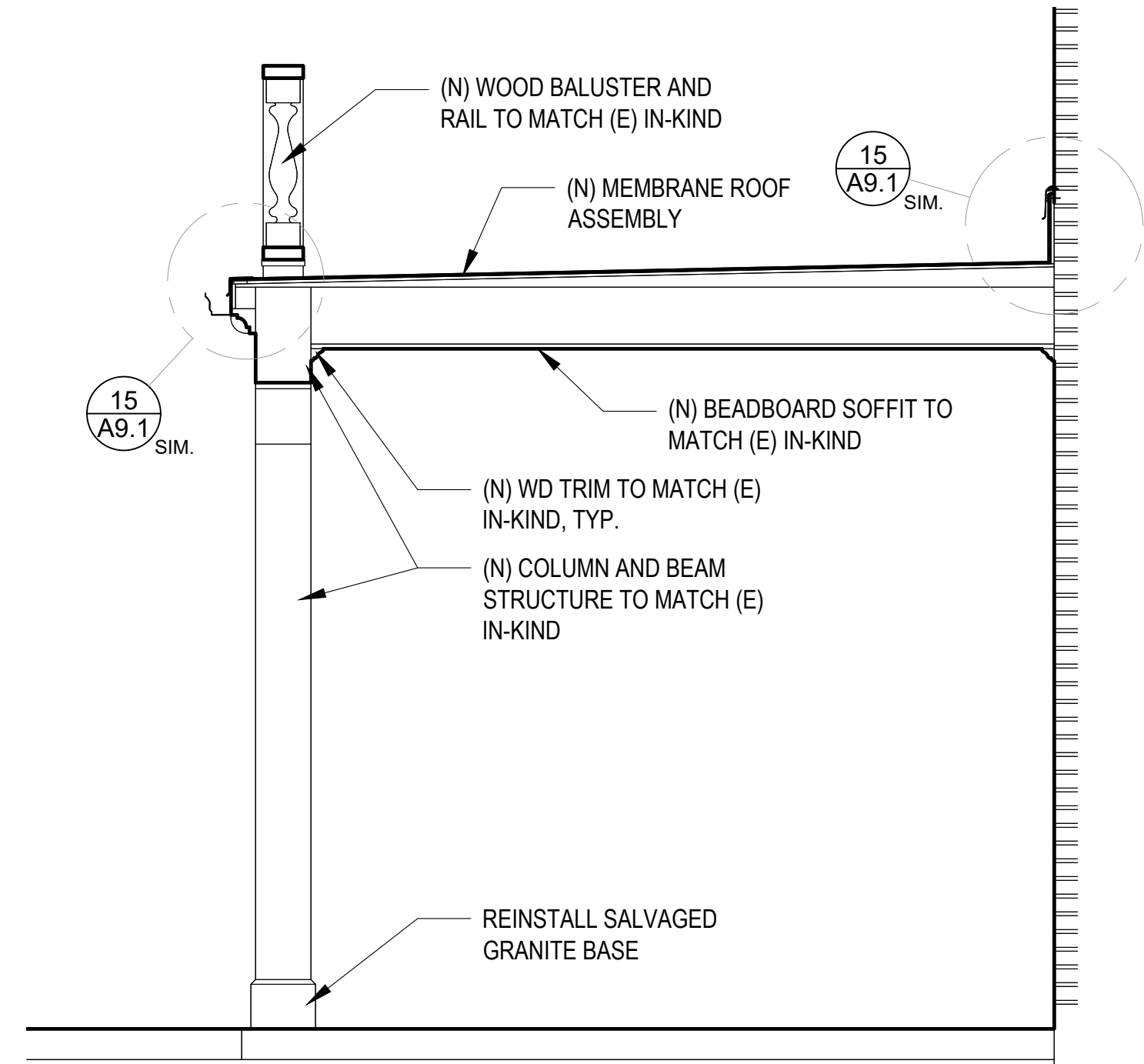




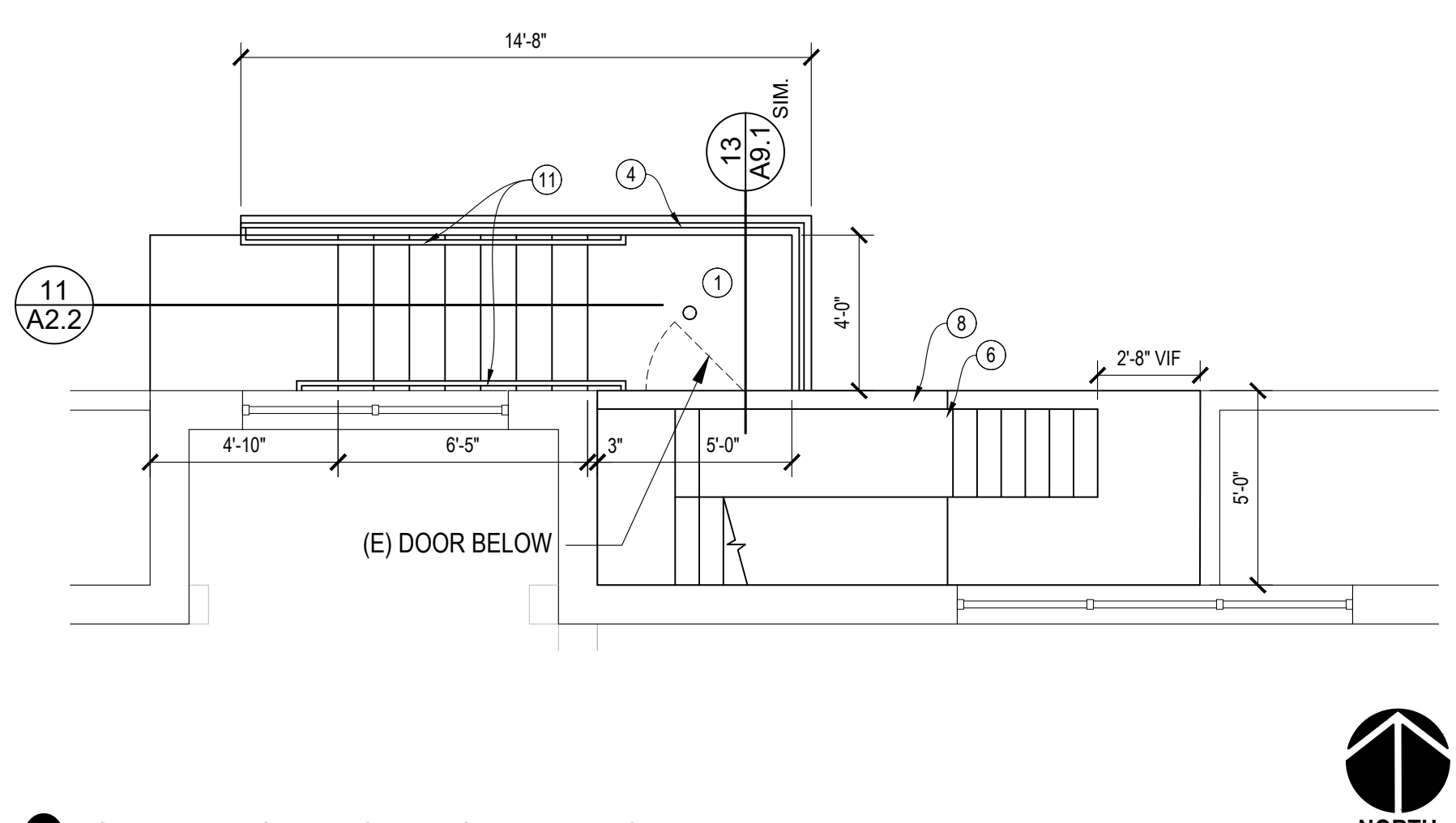
**5** QUAD CD - FLOOR PLAN  
A2.2 : A2.2 1/8" = 1'-0"



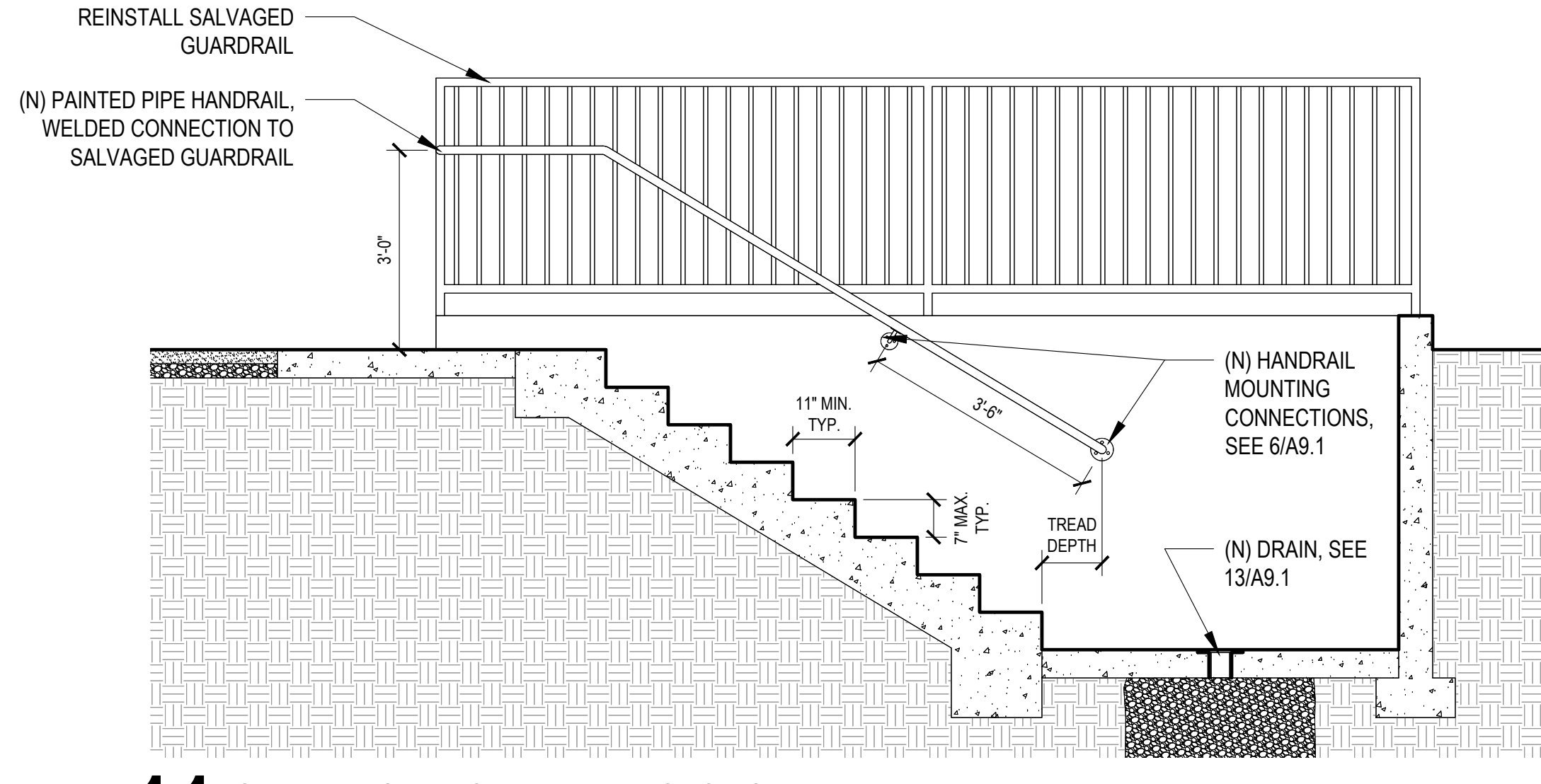
**3** QUAD D MAIN ENTRANCE - ENLARGED PLAN  
A2.2 : A2.2 1/4" = 1'-0"



**4** QUAD D MAIN ENTRANCE - SECTION  
A2.2 : A2.2 1/2" = 1'-0"



**9** QUAD D NORTH STAIRS - ENLARGED PLAN  
A2.2 : A2.2 1/4" = 1'-0"



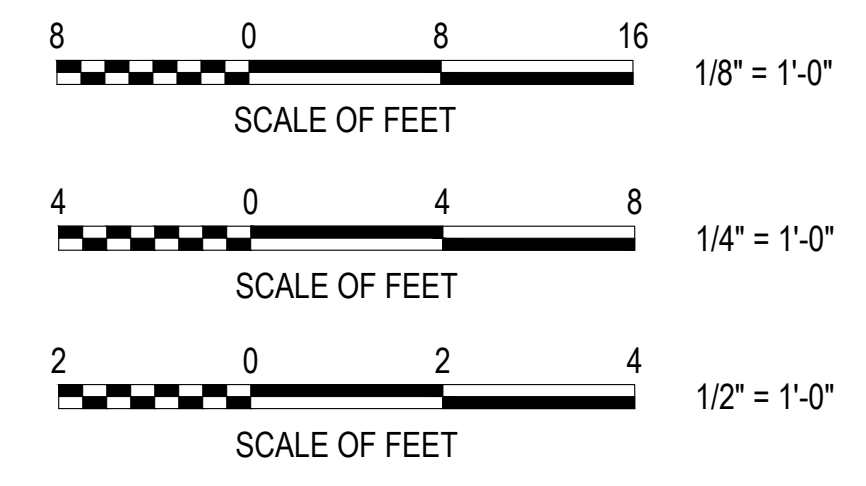
**11** QUAD D NORTH STAIRWELL - SECTION  
A2.2 : A2.2 1/2" = 1'-0"

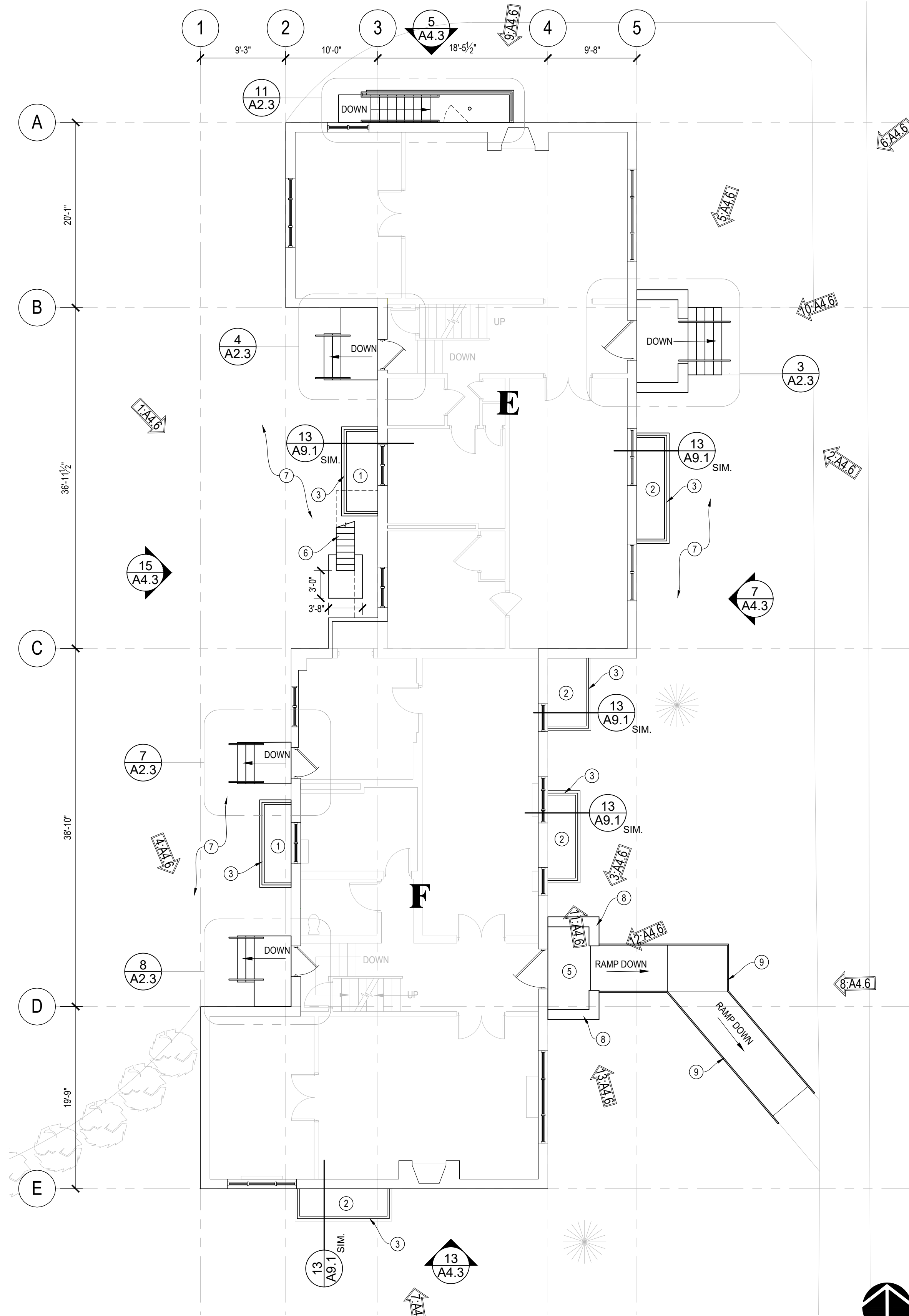
**# KEYNOTES**

- ① REPLACE CONCRETE WINDOW/STAIR WELL WITH (N) CONCRETE WINDOW/STAIR WELL. COORDINATE EXTENTS WITH EXISTING TO MATCH IN-KIND SIZE. COORDINATE (N) TOP ELEVATION WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
- ② STABILIZE AND REPAIR CRACKING/DAMAGED CONCRETE WINDOW WELL. REFERENCE STRUCTURAL REQUIREMENTS FOR ADDITIONAL INFORMATION. COORDINATE EXTENT. PROVIDE CONCRETE EXTENSION TO NEW ELEVATION. COORDINATE WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
- ③ PROVIDE AND INSTALL (N) METAL GUARDRAIL - POWDER COAT FINISH. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.
- ④ CLEAN/REPAIR AND REINSTALL EXISTING METAL GUARDRAIL - PRIME AND PAINT. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.
- ⑤ ALTERNATE 2 - PROVIDE (N) CONCRETE STAIR AND LANDING TO MATCH IN-KIND HISTORIC. COORDINATE REINSTALLATION OF SALVAGED FINISH COMPONENTS IN ORIGINAL LOCATIONS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- ⑥ COORDINATE CLEANING AND REMOVAL OF ALL LOOSE, DAMAGED, AND DETERIORATED FINISH/URUST IN ITS ENTIRETY. REPAIR AND STRUCTURALLY STABILIZE FIRE ESCAPE COMPONENTS AND CONNECTIONS PER STRUCTURAL. PRIME AND PAINT IN ITS ENTIRETY. (N) CONCRETE LANDING AT BASE. SEE STRUCTURAL.
- ⑦ REGRADE TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND ASSOCIATED CONSTRUCTIONS - COORDINATE EXTENT AND FINISH WITH CIVIL FOR TIE-IN TO EXISTING.
- ⑧ ALTERNATE 2 - RECONSTRUCT CONCRETE PODIUM AND TOPPING SLAB TO MATCH (E) HISTORIC CONDITION IN-KIND. REINSTALL SALVAGED PORTION OF FIRE ESCAPE. SEE STRUCTURAL FOR ADDITIONAL INFORMATION. COORDINATE WITH (N) GRADING.
- ⑨ ALTERNATE 2 - PROVIDE AND INSTALL (N) CONCRETE SLAB AT ENTRY TO MATCH (E) IN-KIND. COORDINATE ELEVATION WITH NEW GRADES. SEE STRUCTURAL.
- ⑩ ALTERNATE 2 - COORDINATE RECONSTRUCTION OF PORCH TO MATCH IN-KIND HISTORIC APPEARANCE. SEE STRUCTURAL FOR ADDITIONAL INFORMATION. PRIME AND PAINT.
- ⑪ (N) PIPE HANDRAIL, PRIME AND PAINT.

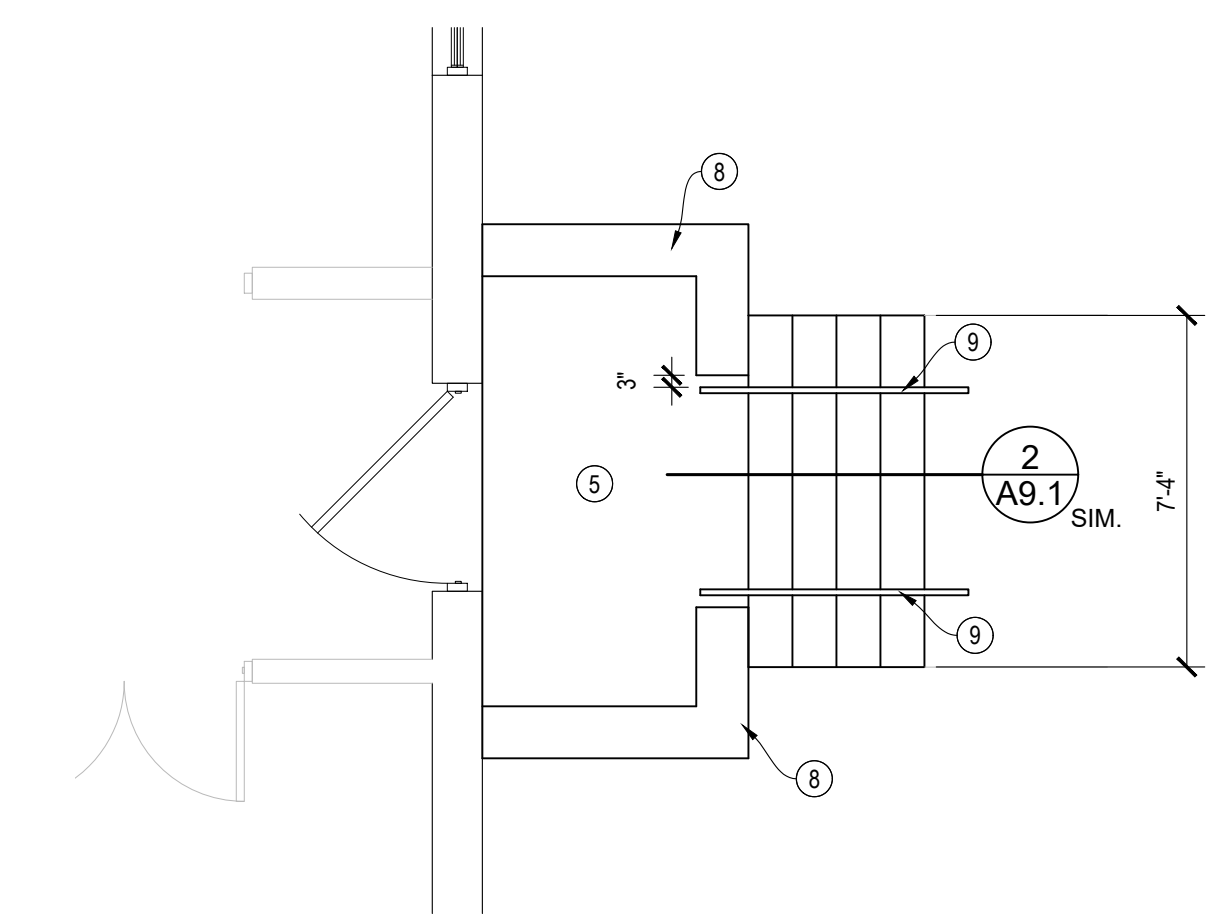
**GENERAL NOTES**

1. FIELD VERIFY DIMENSIONS. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
2. REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION.
3. SEE COVER FOR DESCRIPTION OF BASE BID AND ALTERNATES.
4. AS PART OF ALTERNATE 2 - CLEAN ALL BRICK AND CONCRETE PARGE COATINGS. AREAS OF MORE INTENSIVE CLEANING ARE CALLED OUT IN THE DRAWINGS.
5. REGRADE AROUND ENTIRE BUILDING AS REQUIRED TO DIRECT DRAINAGE AWAY FROM THE BUILDING. SEE CIVIL.

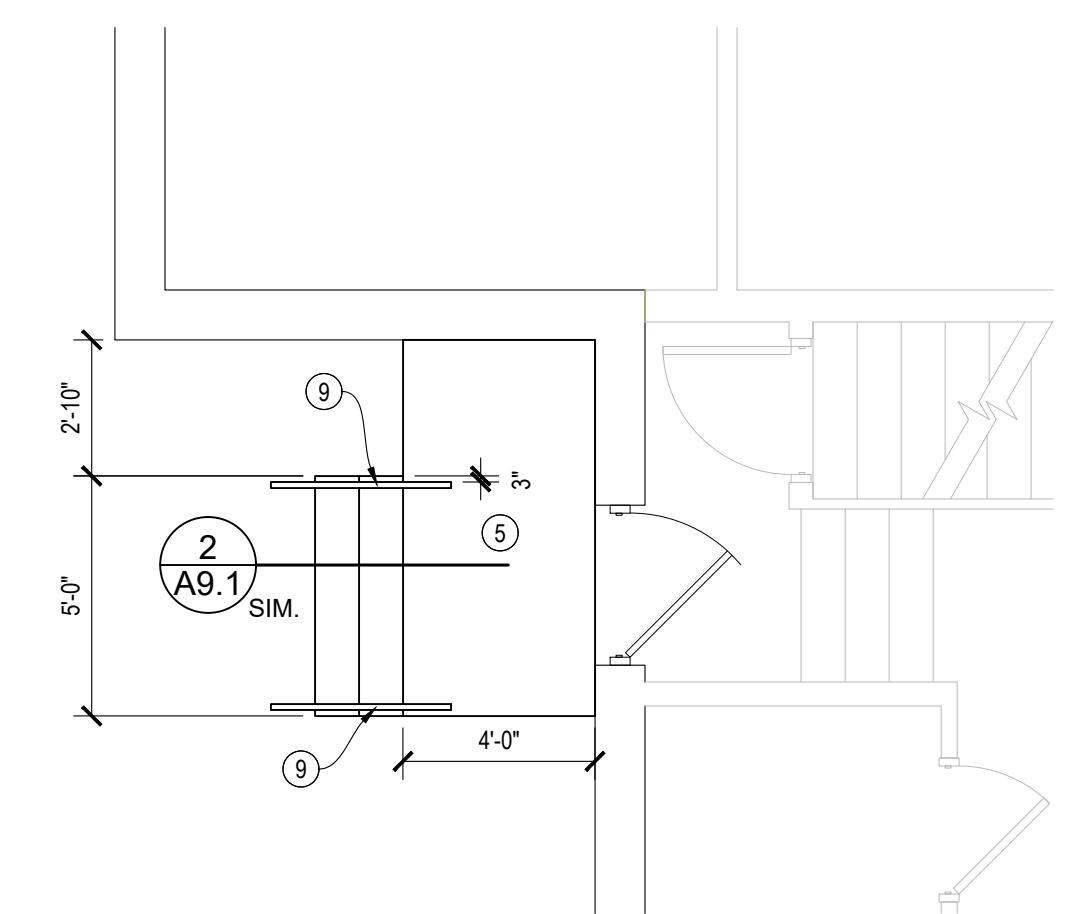




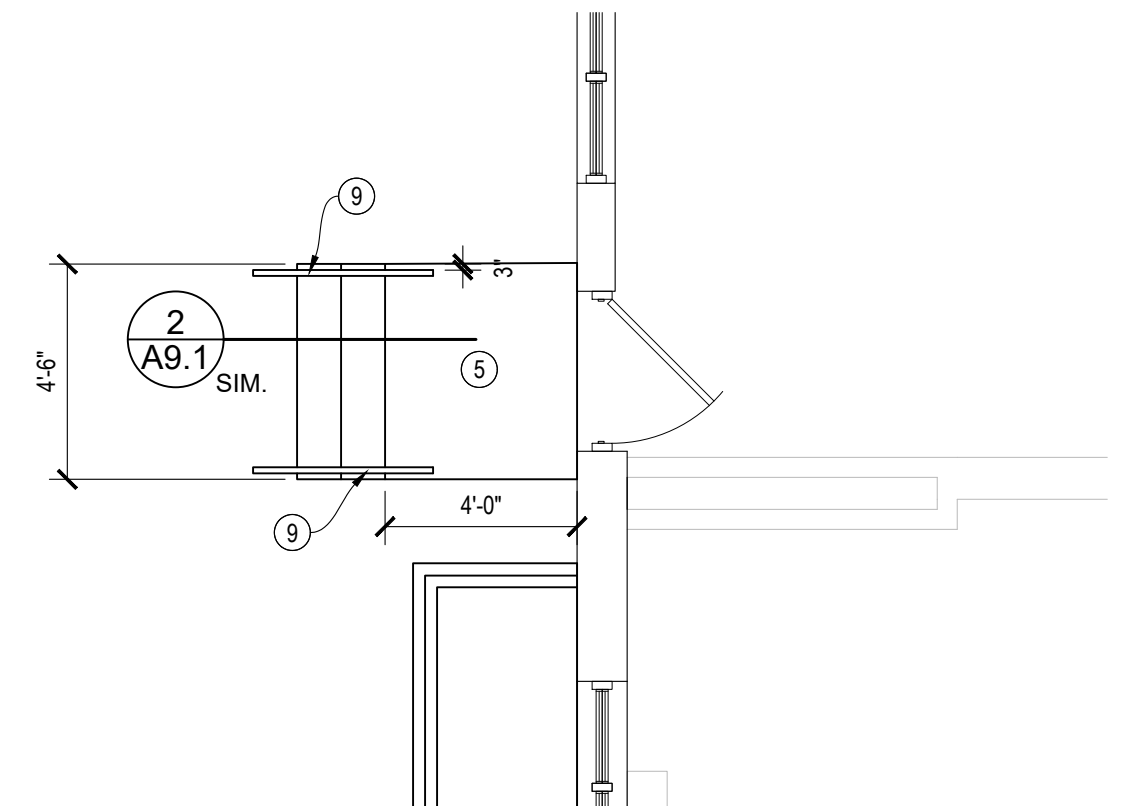
**9 QUAD EF - FLOOR PLAN**  
A2.3 : A2.3 1/8" = 1'-0"



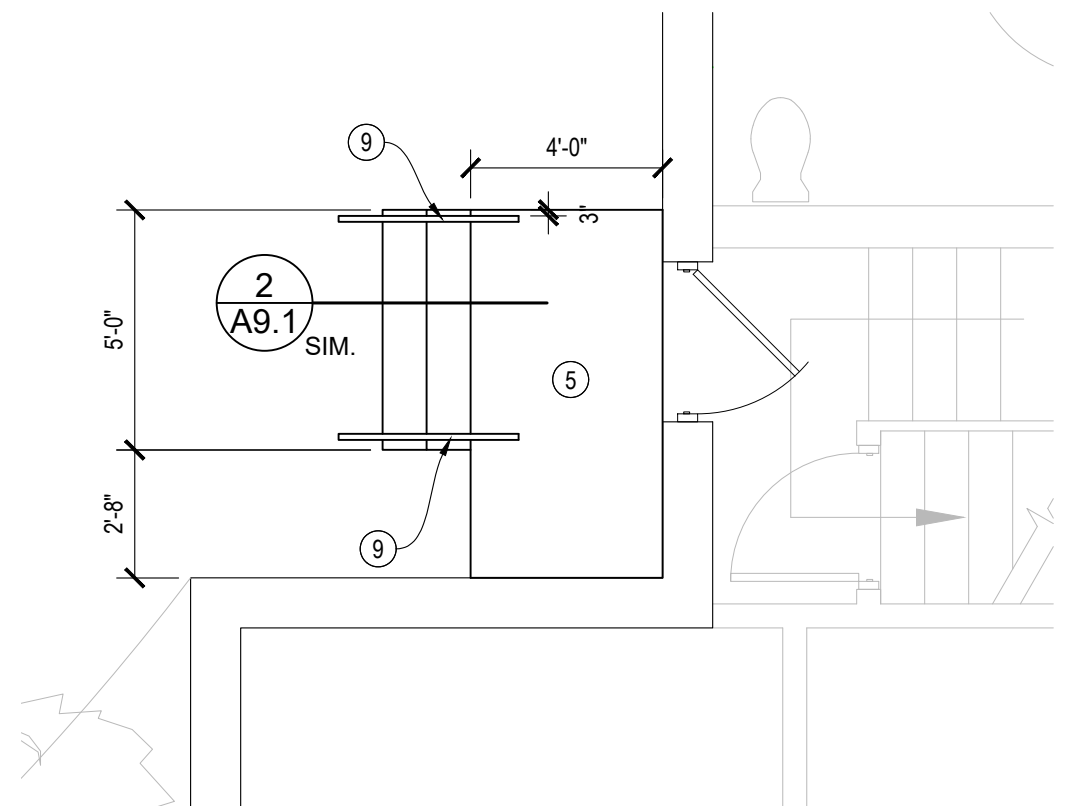
**3 QUAD E MAIN EAST ENTRANCE - ENLARGED PLAN**  
A2.3 : A2.3 1/4" = 1'-0"



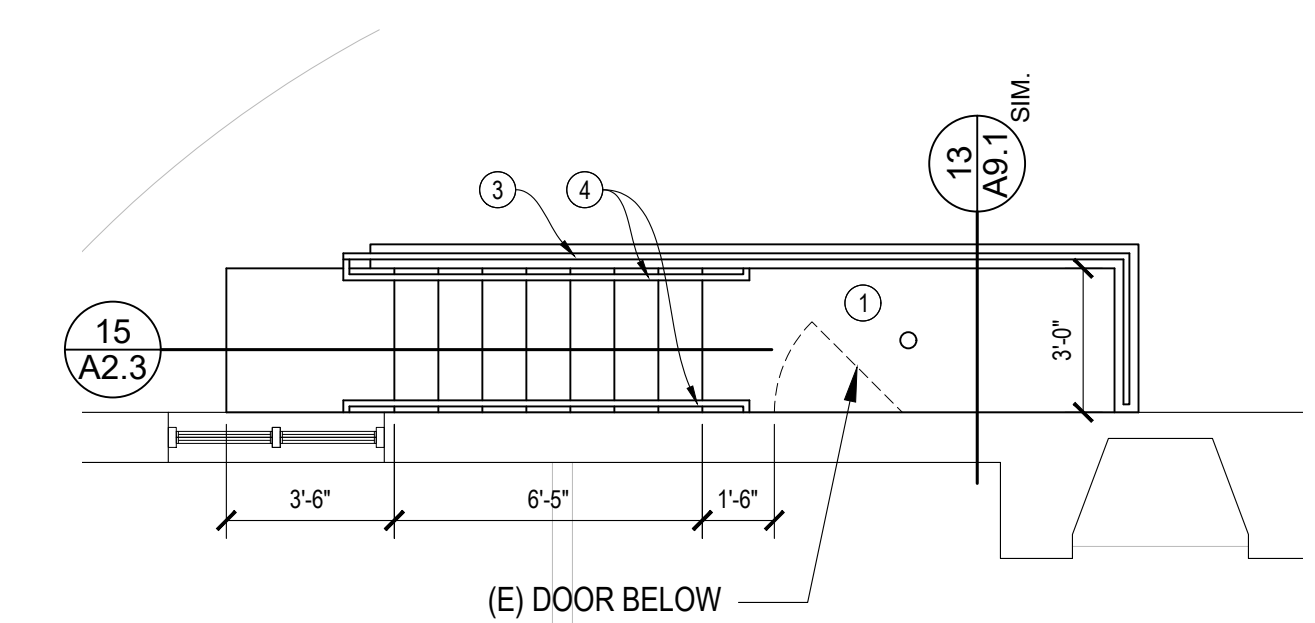
**4 QUAD E WEST ENTRANCE - ENLARGED PLAN**  
A2.3 : A2.3 1/4" = 1'-0"



**7 QUAD F SECONDARY WEST ENTRANCE - ENLARGED PLAN**  
A2.3 : A2.3 1/4" = 1'-0"



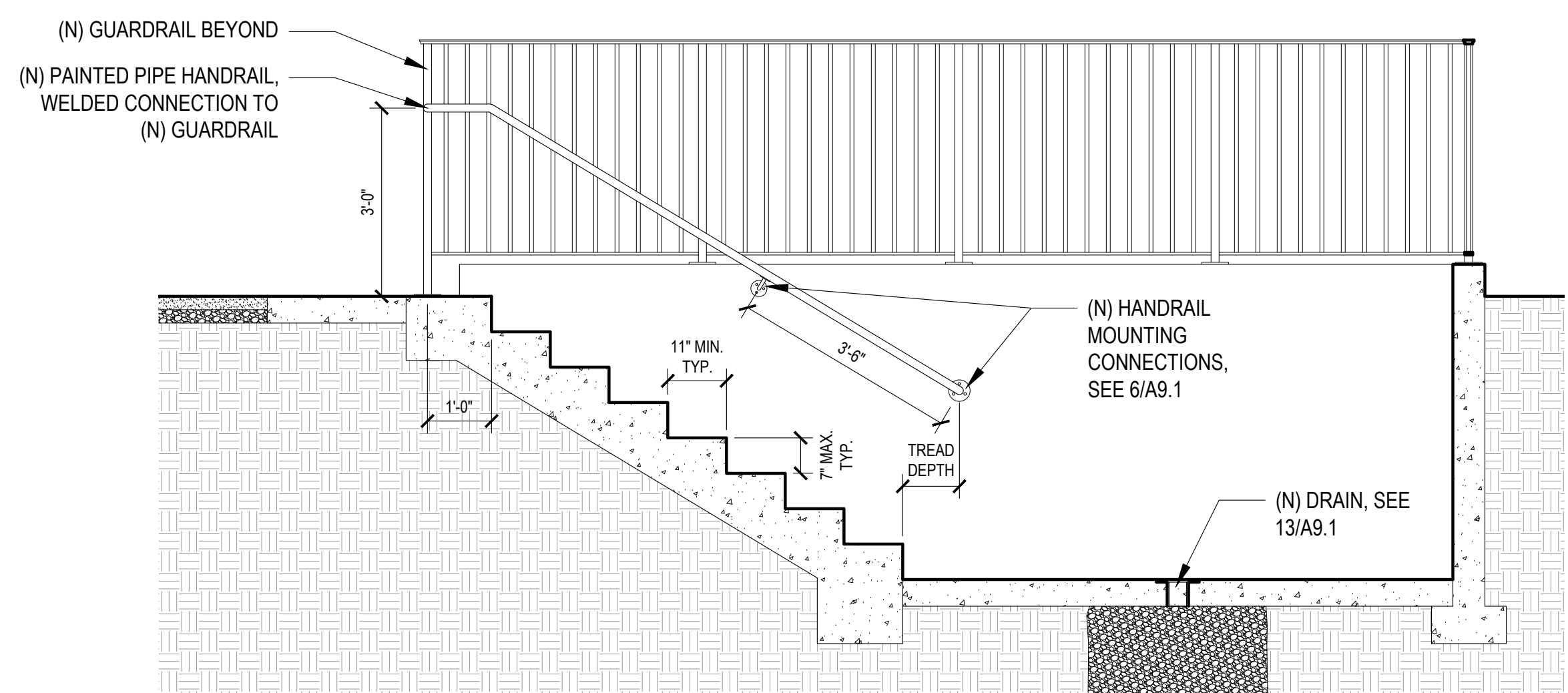
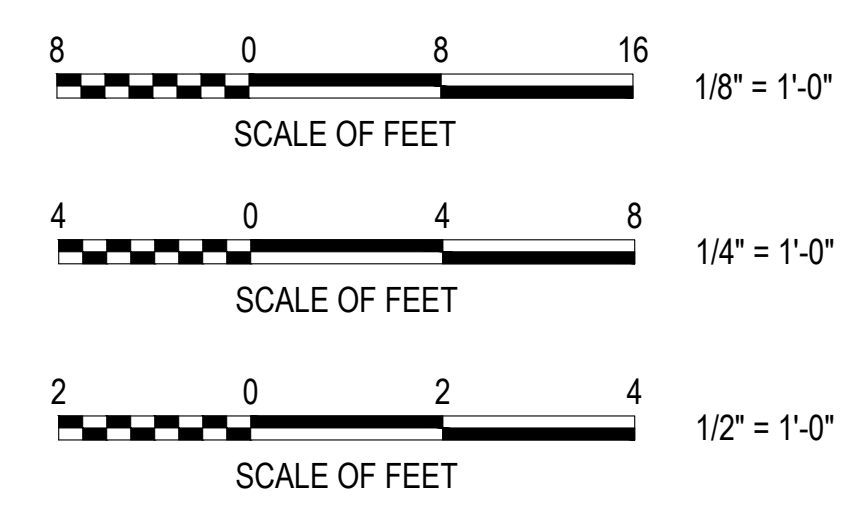
**8 QUAD F MAIN WEST ENTRANCE - ENLARGED PLAN**  
A2.3 : A2.3 1/4" = 1'-0"



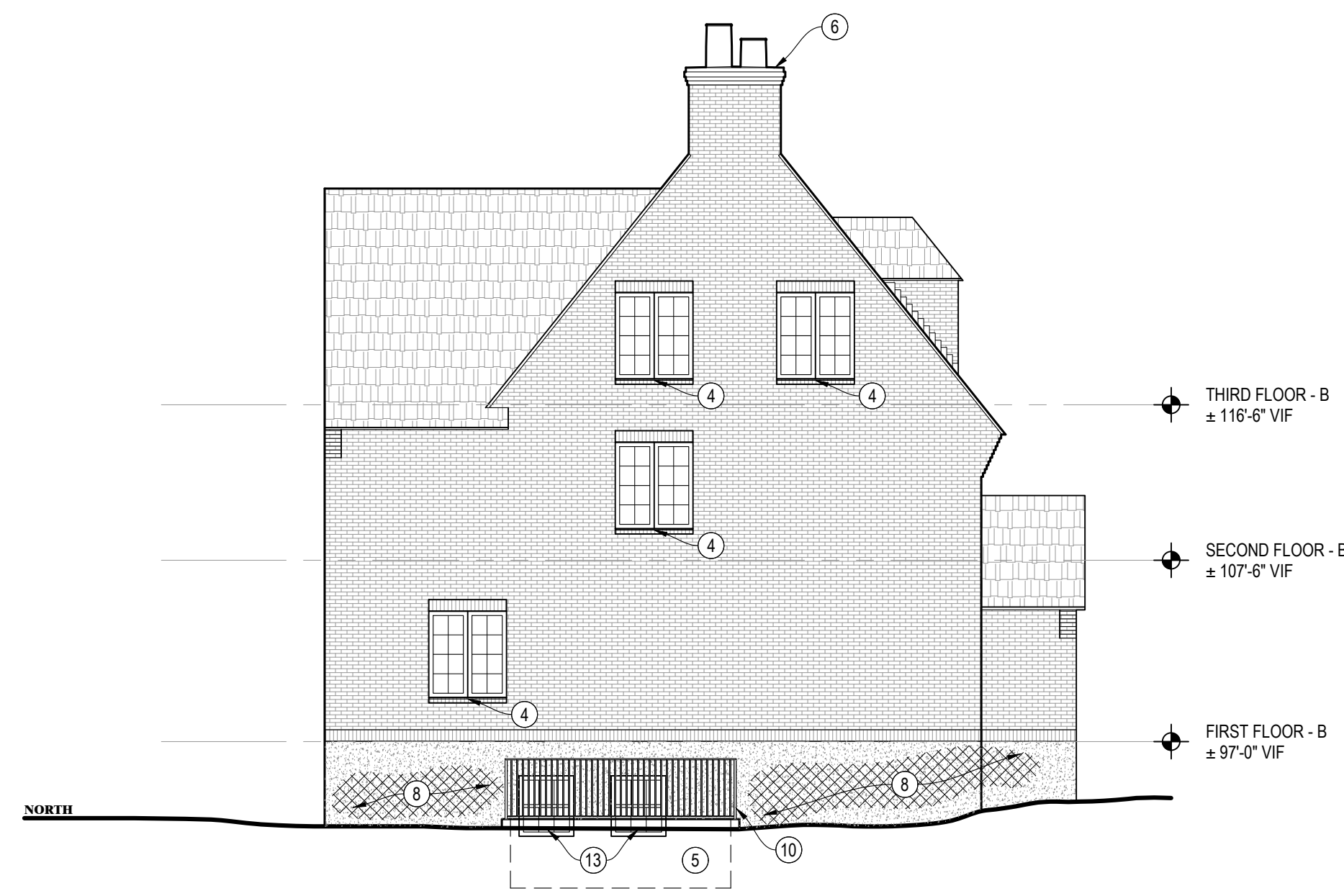
**11 QUAD E NORTH STAIRWELL - ENLARGED PLAN**  
A2.3 : A2.3 1/4" = 1'-0"

- # KEYNOTES**
- REPLACE CONCRETE WINDOW/STAIR WELL WITH (N) CONCRETE WINDOW/STAIR WELL. COORDINATE EXTENTS WITH EXISTING TO MATCH IN-KIND SIZE. COORDINATE (N) TOP ELEVATION WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
  - STABILIZE AND REPAIR CRACKING/DAMAGED CONCRETE WINDOW WELL. REFERENCE STRUCTURAL REQUIREMENTS FOR ADDITIONAL INFORMATION. COORDINATE EXTENT. PROVIDE CONCRETE EXTENSION TO NEW ELEVATION. COORDINATE WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
  - PROVIDE AND INSTALL (N) METAL GUARDRAIL - POWDER COAT FINISH. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.
  - PROVIDE AND INSTALL (N) METAL HANDRAIL - PRIME AND PAINT. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.
  - ALTERNATE 2 - PROVIDE (N) CONCRETE STAIR AND LANDING TO MATCH IN-KIND HISTORIC. COORDINATE REINSTATEMENT OF SALVAGED FINISH COMPONENTS IN ORIGINAL LOCATIONS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
  - COORDINATE CLEANING AND REMOVAL OF ALL LOOSE, DAMAGED, AND DETERIORATED FINISH/URUST IN ITS ENTIRETY. REPAIR AND STRUCTURALLY STABILIZE FIRE ESCAPE COMPONENTS AND CONNECTIONS PER STRUCTURAL. PRIME AND PAINT IN ITS ENTIRETY. (N) CONCRETE LANDING AT BASE. SEE STRUCTURAL.
  - REGRADE TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND ASSOCIATED CONSTRUCTIONS - COORDINATE EXTENT AND FINISH WITH CIVIL FOR TIE-IN TO EXISTING.
  - ALTERNATE 2 - RECONSTRUCT BRICK AND GRANITE CAP TO MATCH (E) HISTORIC CONDITION IN-KIND. SEE 7/A2.1.
  - ALTERNATE 2 - (N) METAL HANDRAIL, POWDER COAT FINISH - SEE 2/A9.1. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.

- GENERAL NOTES**
- FIELD VERIFY DIMENSIONS. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
  - REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION.
  - SEE COVER FOR DESCRIPTION OF BASE BID AND ALTERNATES.
  - AS PART OF ALTERNATE 2 - CLEAN ALL BRICK AND CONCRETE PARGE COATINGS. AREAS OF MORE INTENSIVE CLEANING ARE CALLED OUT IN THE DRAWINGS.
  - REGRADE AROUND ENTIRE BUILDING AS REQUIRED TO DIRECT DRAINAGE AWAY FROM THE BUILDING. SEE CIVIL.



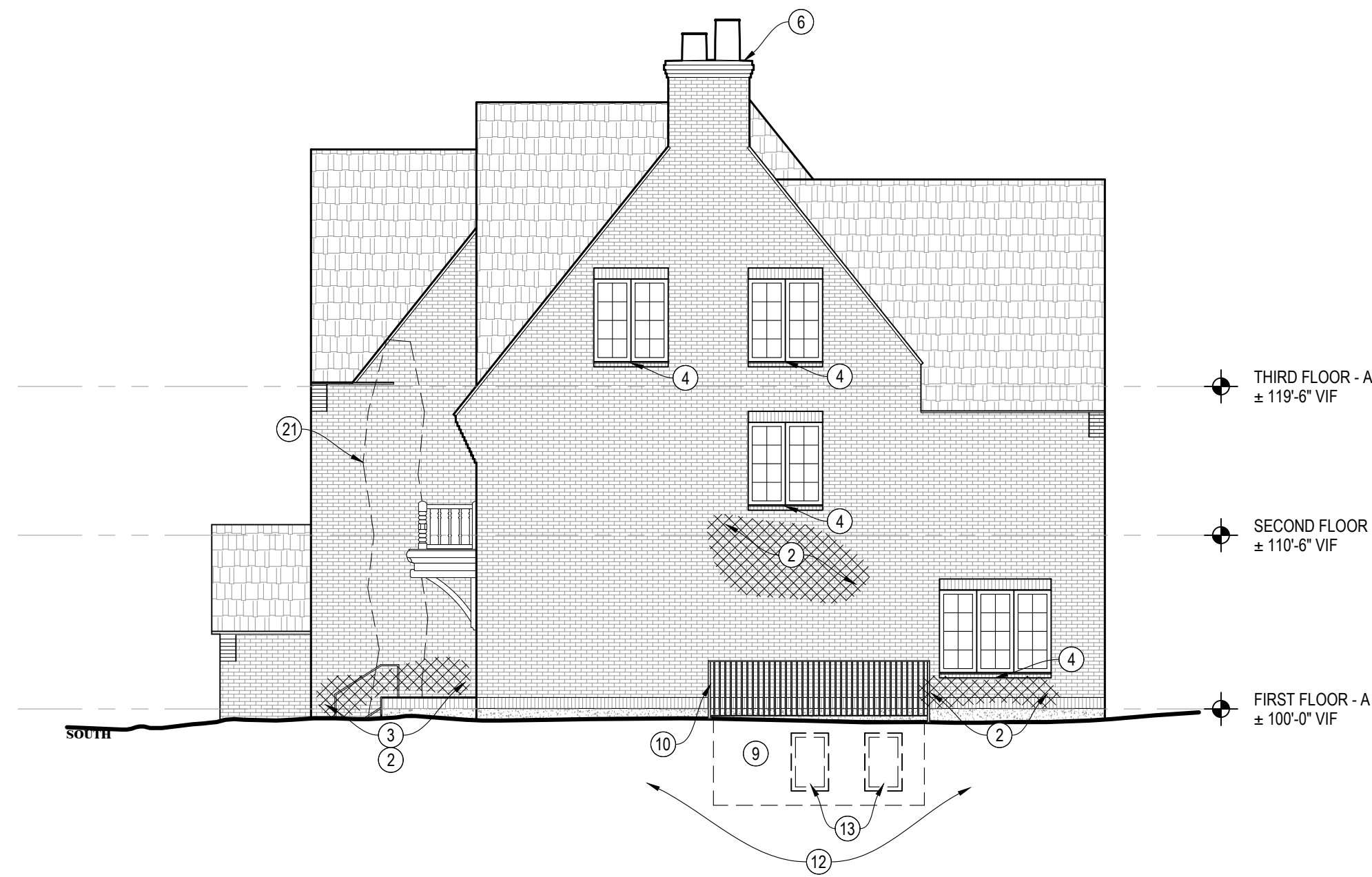
**15 QUAD E NORTH STAIRWELL - SECTION**  
A2.3 : A2.3 1/2" = 1'-0"



**5** QUAD AB - NORTH ELEVATION  
A2.1 : A4.1 1/8" = 1'-0"



**7** QUAD AB - EAST ELEVATION  
A2.1 : A4.1 1/8" = 1'-0"



**13** QUAD AB - SOUTH ELEVATION  
A2.1 : A4.1 1/8" = 1'-0"



**15** QUAD AB - WEST ELEVATION  
A2.1 : A4.1 1/8" = 1'-0"

**# KEYNOTES**

- 1 ALTERNATE 2 - PROVIDE (N) CONCRETE STAIR AND LANDING TO MATCH IN-KIND HISTORIC. COORDINATE REINSTALLATION OF SALVAGED FINISH COMPONENTS IN ORIGINAL LOCATIONS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- 2 ALTERNATE 1 - CLEAN BRICK, MORTAR, AND ASSOCIATED MASONRY FINISHES TO REMOVE BIOLOGICAL GROWTH, GRAFFITI, AND OTHER DISCOLORATION. COORDINATE EXTENT WITH FIELD CONDITIONS.
- 3 ALTERNATE 1 - REPAIR AND REPOINT DAMAGED MASONRY/MORTAR. FIELD COORDINATE EXTENT - ASSUME MINIMUM 7.5% OF TOTAL BUILDING AREA.
- 4 ALTERNATE 1 - REPAIR AND REPOINT DAMAGED MASONRY WINDOW SILL AND ADJACENT FIELD/CASING. FIELD COORDINATE EXTENT.
- 5 REPLACE CONCRETE WINDOW WELL WITH (N) CONCRETE WINDOW WELL. COORDINATE EXTENTS WITH EXISTING TO MATCH IN-KIND SIZE. COORDINATE (N) TOP ELEVATION WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
- 6 ALTERNATE 1 - CLEAN, REPAIR, AND REPOINT BRICK AND MORTAR AT (E) CHIMNEY. PROVIDE NEW POWDER COATED METAL CAP TO SEAL UNUSED FLUES.
- 7 ALTERNATE 1 - CLEAN AND REPAIR MASONRY PARGE COAT FINISH OF ALL BIOLOGICAL GROWTH, GRAFFITI, DISCOLORATION, CRACKING, SPALLING, AND DELAMINATION - FIELD COORDINATE EXTENT.
- 8 ALTERNATE 1 - CLEAN MASONRY PARGE COAT FINISH OF ALL BIOLOGICAL GROWTH, GRAFFITI, AND OTHER DISCOLORATION - FIELD COORDINATE EXTENT.
- 9 STABILIZE AND REPAIR CRACKING/DAMAGED CONCRETE WINDOW WELL. REFERENCE STRUCTURAL REQUIREMENTS FOR ADDITIONAL INFORMATION. COORDINATE EXTENT. PROVIDE CONCRETE EXTENSION TO NEW ELEVATION - COORDINATE WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.

**# KEYNOTES**

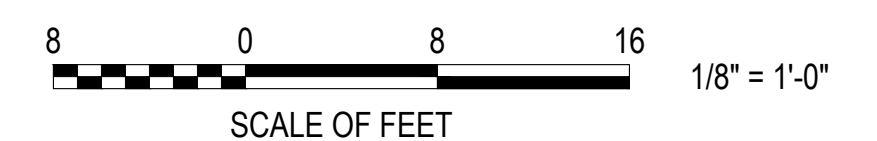
- 10 PROVIDE AND INSTALL (N) METAL GUARDRAIL - POWDER COAT FINISH. COORDINATE INSTALLATION WITH NEWEXISTING CONDITIONS.
- 11 NOT USED.
- 12 REGRADE TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND ASSOCIATED CONSTRUCTIONS - COORDINATE EXTENT AND FINISH WITH CIVIL FOR TIE-IN TO EXISTING.
- 13 REPAIR AND RESTORE (E) WOOD WINDOW. COORDINATE REMOVAL/REINSTALLATION AS NECESSARY. PRIME AND PAINT.
- 14 COORDINATE CLEANING AND REMOVAL OF ALL LOOSE, DAMAGED, AND DETERIORATED FINISH/URST IN ITS ENTIRETY. REPAIR AND STRUCTURALLY STABILIZE FIRE ESCAPE COMPONENTS AND CONNECTIONS PER STRUCTURAL. PRIME AND PAINT IN ITS ENTIRETY.
- 15 ALTERNATE 2 - (N) METAL COUNTER FLASHING. SEE DETAILS 1/A9.1 AND 7/A9.1. COORDINATE WITH FIELD CONDITIONS.
- 16 ALTERNATE 2 - (N) WOOD SHINGLE ROOF ASSEMBLY.
- 17 ALTERNATE 2 - RECONSTRUCT BRICK AND GRANITE CAP TO MATCH (E) CONDITION IN-KIND.
- 18 ALTERNATE 2 - (N) METAL HANDRAIL, POWDER COAT FINISH - SEE 2/A9.1. COORDINATE INSTALLATION WITH NEWEXISTING CONDITIONS.
- 19 ALTERNATE 2 - RECONSTRUCT BALUSTRADE RAILING, BRACKETS, TRIMS, AND MISC. COMPONENTS TO MATCH IN-KIND HISTORIC - PRIME AND PAINT. SEE 10/A4.4.
- 20 ALTERNATE 2 - INSTALL SALVAGED AND NEW SOFFIT FINISH TO MATCH IN-KIND HISTORIC. PRIME AND PAINT.
- 21 PROTECT (E) SCULPTURE IN-PLACE.

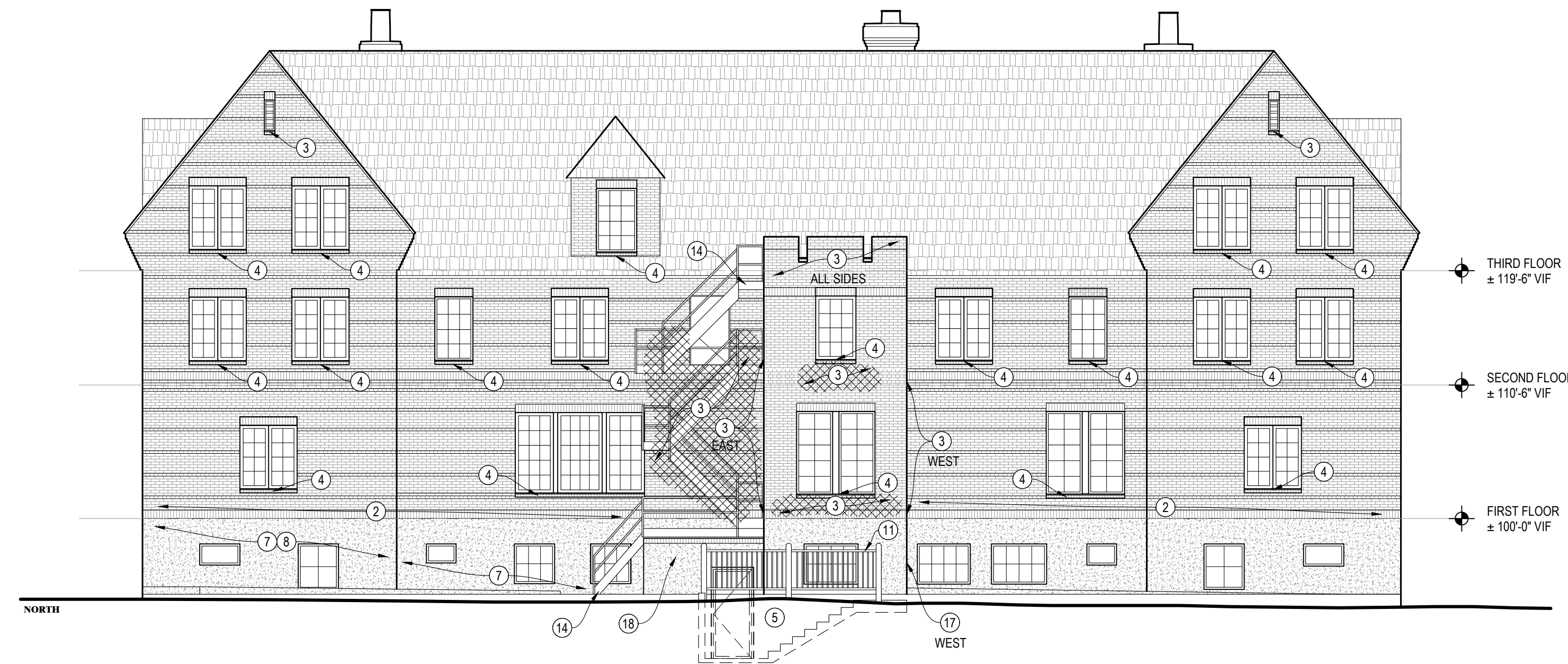
**# KEYNOTES**

- 22 (N) WINDOW HEADER. SEE STRUCTURAL.
- 23 ALTERNATE 2 - (N) MEMBRANE ROOF ASSEMBLY. SEE 15/A9.1.
- 24 ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT. REINSTALL SALVAGED LIGHT FIXTURES TO MATCH (E) CONDITION IN-KIND.

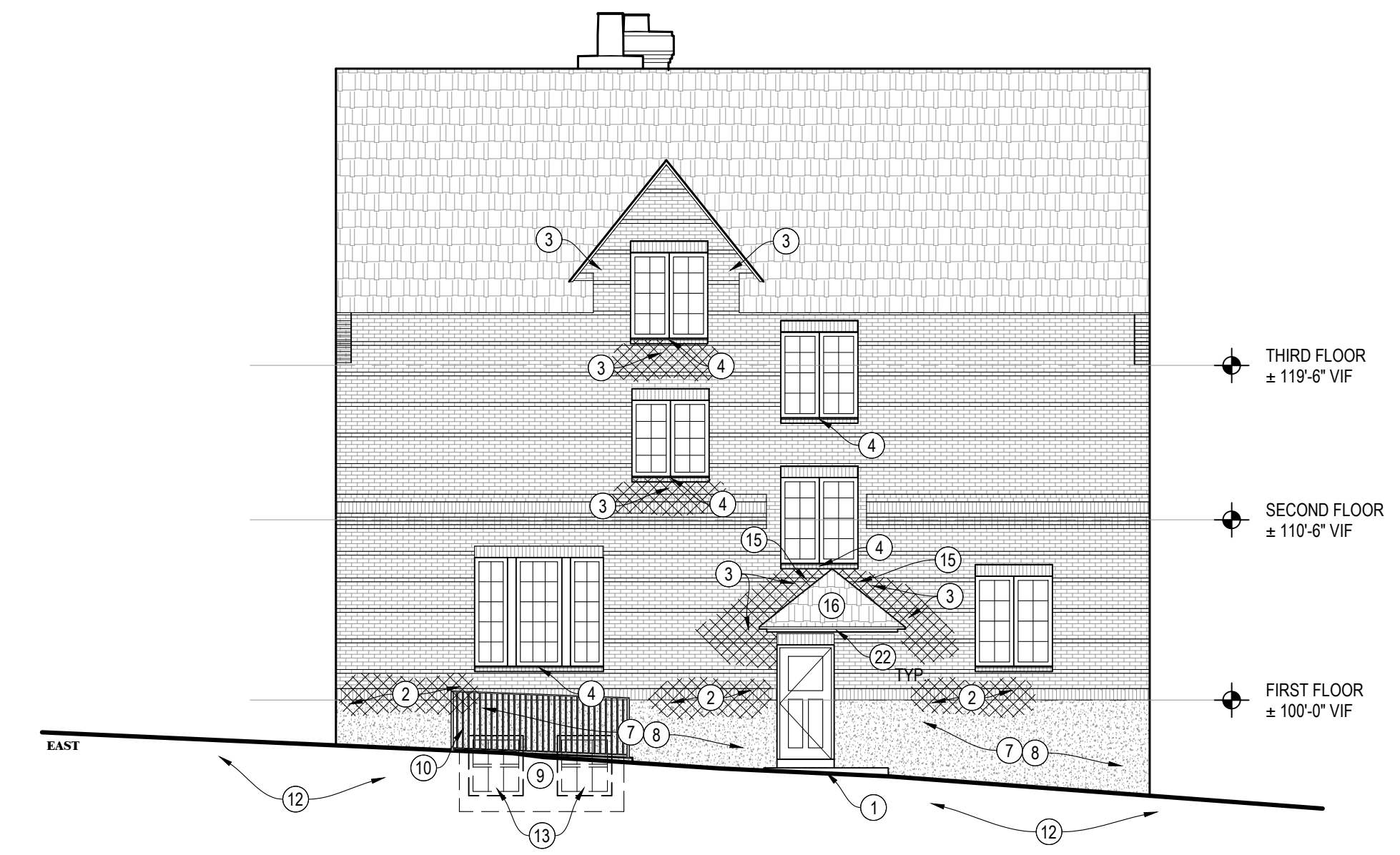
**GENERAL NOTES**

1. FIELD VERIFY DIMENSIONS. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
2. REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION.
3. SEE COVER FOR DESCRIPTION OF BASE BID AND ALTERNATES.
4. AS PART OF ALTERNATE 2 - CLEAN ALL BRICK AND CONCRETE PARGE COATINGS, AREAS OF MORE INTENSIVE CLEANING ARE CALLED OUT IN THE DRAWINGS.
5. REGRADE AROUND ENTIRE BUILDING AS REQUIRED TO DIRECT DRAINAGE AWAY FROM THE BUILDING. SEE CIVIL.

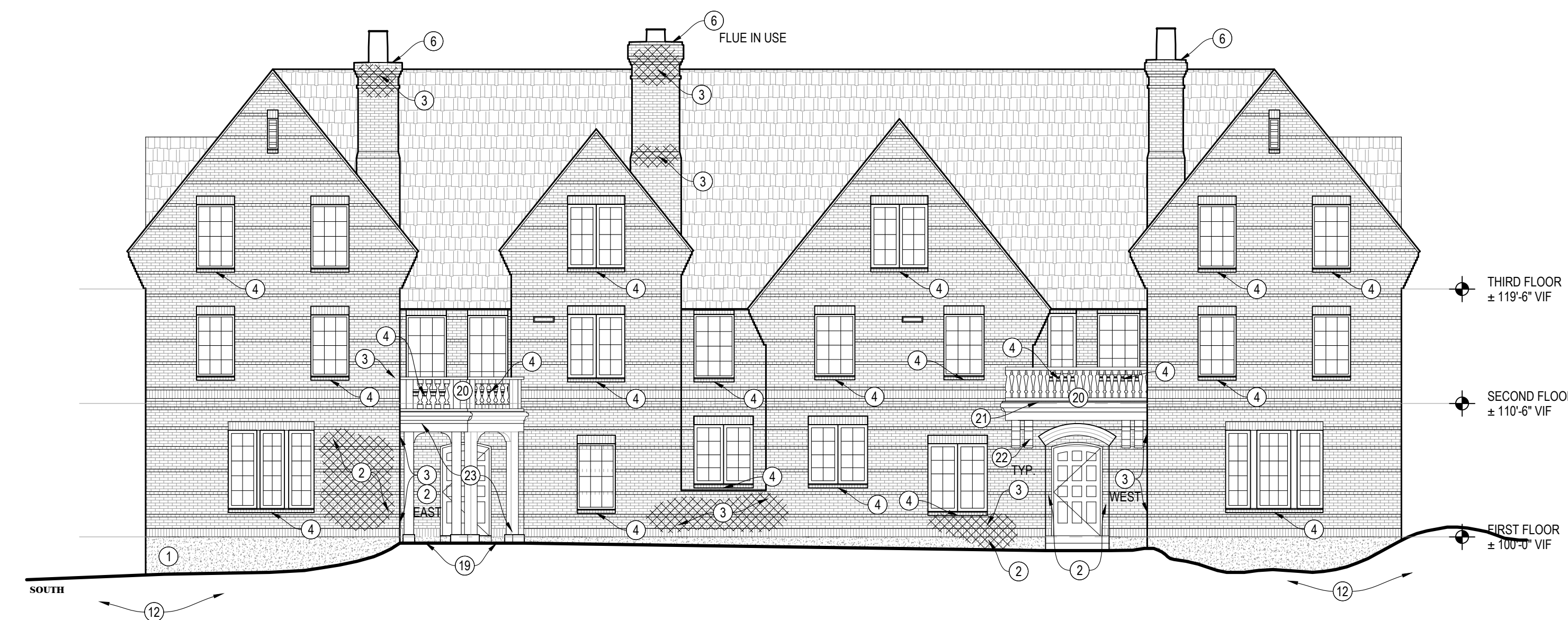




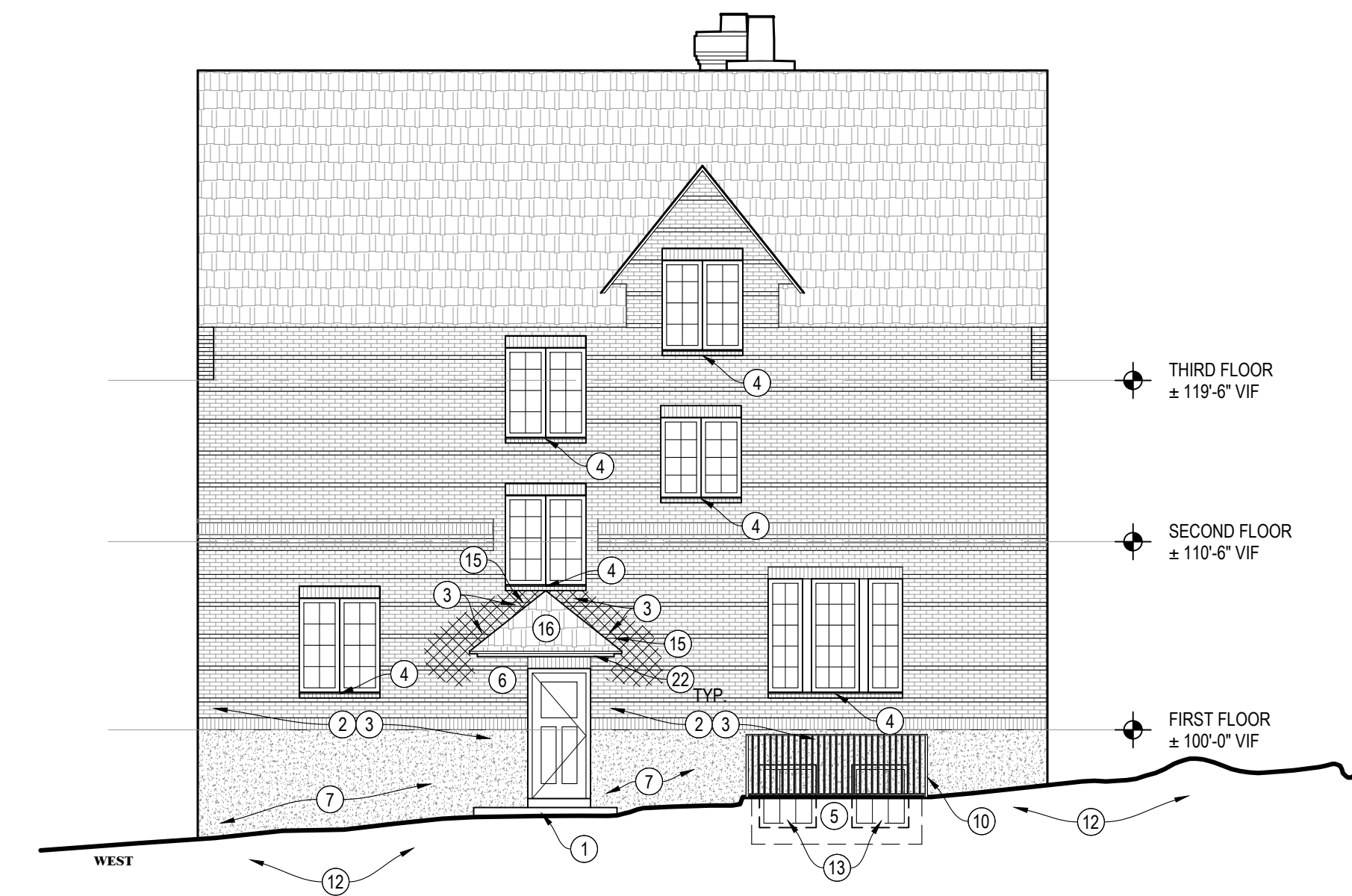
**5** QUAD CD - NORTH ELEVATION  
A2.2 : A4.2 1/8" = 1'-0"



**7** QUAD CD - EAST ELEVATION  
A2.2 : A4.2 1/8" = 1'-0"



**13** QUAD CD - SOUTH ELEVATION  
A2.2 : A4.2 1/8" = 1'-0"



**15** QUAD CD - WEST ELEVATION  
A2.2 : A4.2 1/8" = 1'-0"

**# KEYNOTES**

- ① ALTERNATE 2 - PROVIDE (N) CONCRETE STAIR AND LANDING TO MATCH IN-KIND HISTORIC. COORDINATE REINSTALLATION OF SALVAGED FINISH COMPONENTS IN ORIGINAL LOCATIONS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- ② ALTERNATE 1 - CLEAN BRICK, MORTAR, AND ASSOCIATED MASONRY FINISHES TO REMOVE BIOLOGICAL GROWTH, GRAFFITI, AND OTHER DISCOLORATION. COORDINATE EXTENT WITH FIELD CONDITIONS.
- ③ ALTERNATE 1 - REPAIR AND REPOINT DAMAGED MASONRY/MORTAR. FIELD COORDINATE EXTENT - ASSUME MINIMUM 7.5% OF TOTAL BUILDING AREA.
- ④ ALTERNATE 1 - REPAIR AND REPOINT DAMAGED MASONRY WINDOW SILL AND ADJACENT FIELD/CASING. FIELD COORDINATE EXTENT.
- ⑤ REPLACE CONCRETE WINDOW WELL WITH (N) CONCRETE WINDOW WELL. COORDINATE EXTENTS WITH EXISTING TO MATCH IN-KIND SIZE. COORDINATE (N) TOP ELEVATION WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
- ⑥ ALTERNATE 1 - CLEAN, REPAIR, AND REPOINT BRICK AND MORTAR AT (E) CHIMNEY. PROVIDE NEW POWDER COATED METAL CAP TO SEAL UNUSED FLUES.
- ⑦ ALTERNATE 1 - CLEAN AND REPAIR MASONRY PARGE COAT FINISH OF ALL BIOLOGICAL GROWTH, GRAFFITI, DISCOLORATION, CRACKING, SPALLING, AND DELAMINATION - FIELD COORDINATE EXTENT.
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**# KEYNOTES**

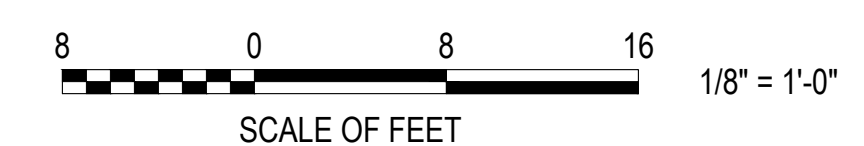
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- ⑪ NOT USED.
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- ⑭ COORDINATE CLEANING AND REMOVAL OF ALL LOOSE, DAMAGED, AND DETERIORATED FINISH/RUST IN ITS ENTIRETY. REPAIR AND STRUCTURALLY STABILIZE FIRE ESCAPE COMPONENTS AND CONNECTIONS PER STRUCTURAL. PRIME AND PAINT IN ITS ENTIRETY.
- ⑮ ALTERNATE 2 - (N) METAL COUNTER FLASHING. SEE DETAILS 1/A9.1 AND 7/A9.1. COORDINATE WITH FIELD CONDITIONS.
- ⑯ ALTERNATE 2 - (N) WOOD SHINGLE ROOF ASSEMBLY.
- ⑰ INFILL (E) OPENING.
- ⑱ ALTERNATE 2 - RECONSTRUCT CONCRETE PODIUM AND TOPPING SLAB TO MATCH (E) HISTORIC CONDITION IN-KIND. REINSTALL SALVAGED PORTION OF FIRE ESCAPE. SEE STRUCTURAL FOR ADDITIONAL INFORMATION. COORDINATE WITH (N) GRADING.
- ⑲ ALTERNATE 2 - PROVIDE AND INSTALL (N) CONCRETE SLAB AT ENTRY TO MATCH (E) IN-KIND. COORDINATE ELEVATION WITH NEW GRADES. SEE STRUCTURAL.
- ⑳ ALTERNATE 2 - RECONSTRUCT BALUSTRADE RAILING, BRACKETS, TRIMS, AND MISC. COMPONENTS TO MATCH IN-KIND HISTORIC - PRIME AND PAINT.

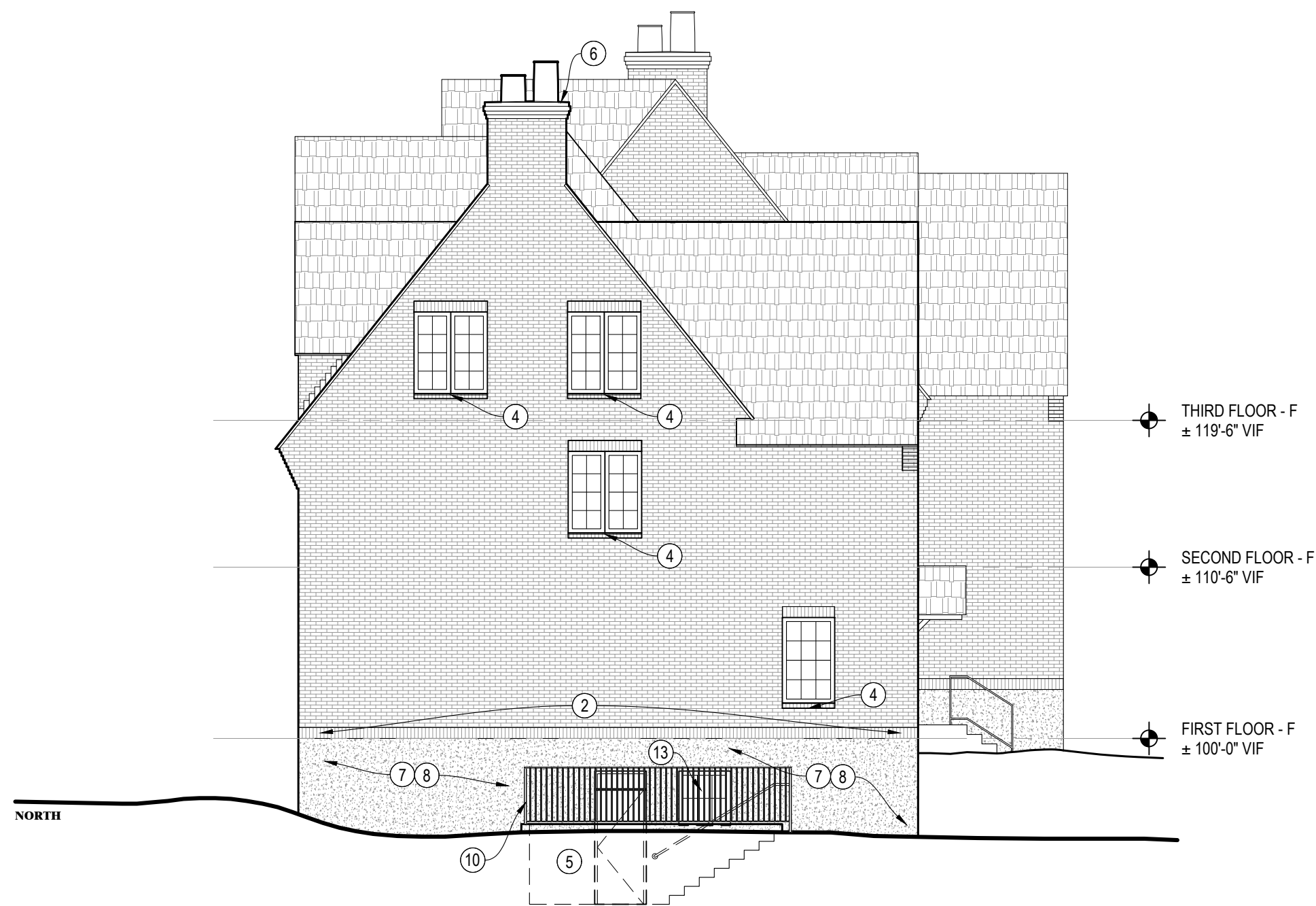
**# KEYNOTES**

- ㉑ ALTERNATE 2 - (N) MEMBRANE ROOF ASSEMBLY. SEE 15/A9.1.
- ㉒ ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT.
- ㉓ ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT. REINSTALL SALVAGED LIGHT FIXTURES TO MATCH (E) CONDITION IN-KIND.

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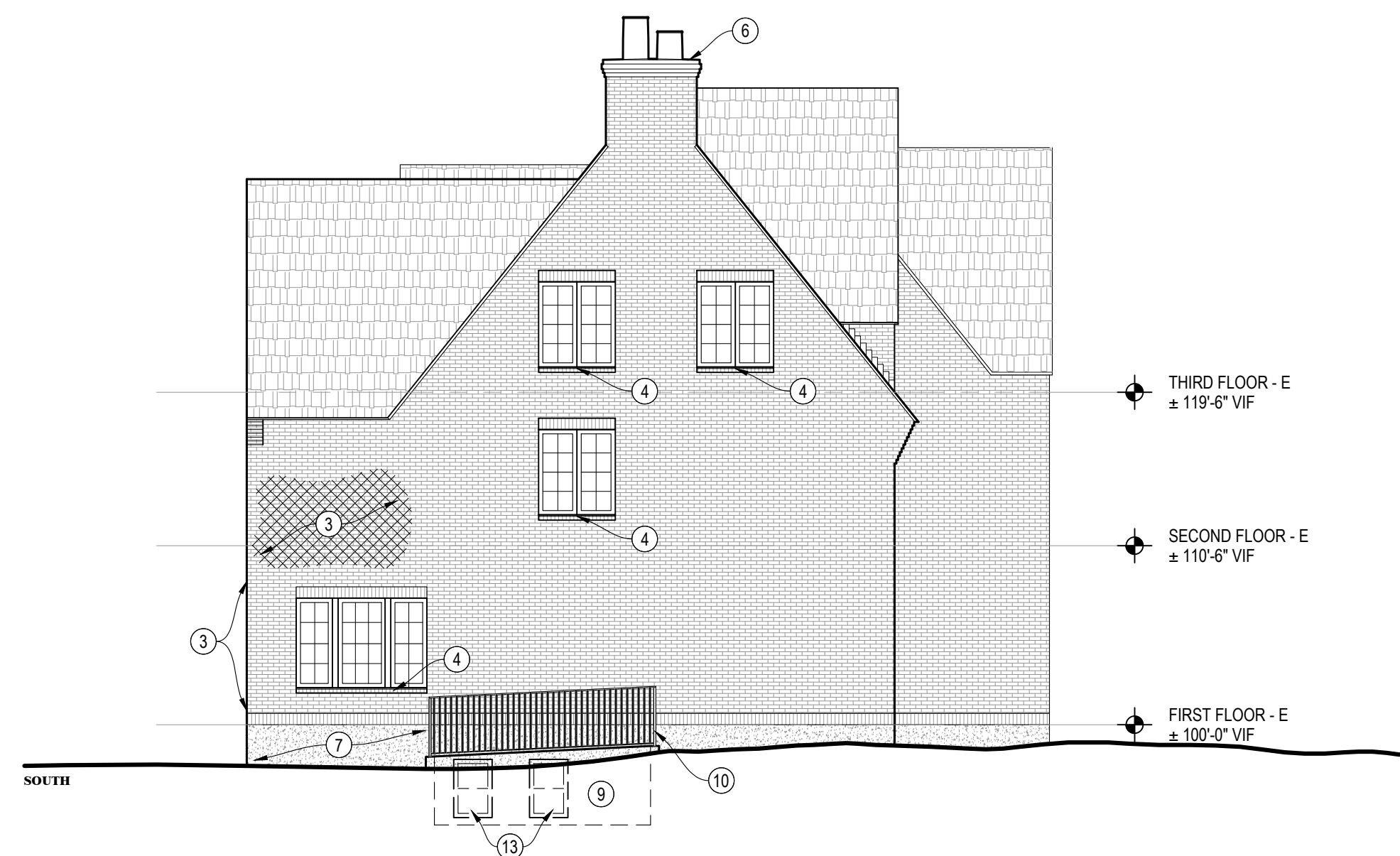




**5** QUAD EF - NORTH ELEVATION  
A2.3 : A4.3 1/8" = 1'-0"



**7** QUAD EF - EAST ELEVATION  
A2.3 : A4.3 1/8" = 1'-0"



**13** QUAD EF - SOUTH ELEVATION  
A2.3 : A4.3 1/8" = 1'-0"



**15** QUAD EF - WEST ELEVATION  
A2.3 : A4.3 1/8" = 1'-0"

**# KEYNOTES**

- ① ALTERNATE 2 - PROVIDE (N) CONCRETE STAIR AND LANDING TO MATCH IN-KIND HISTORIC. COORDINATE REINSTALLATION OF SALVAGED FINISH COMPONENTS IN ORIGINAL LOCATIONS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
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**# KEYNOTES**

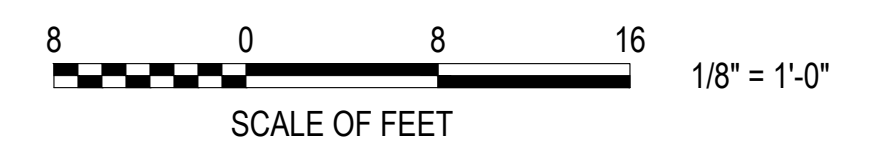
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- ⑮ ALTERNATE 2 - (N) METAL COUNTER FLASHING. SEE DETAILS 1/A9.1 AND 7/A9.1. COORDINATE WITH FIELD CONDITIONS.
- ⑯ ALTERNATE 2 - (N) WOOD SHINGLE ROOF ASSEMBLY.
- ⑰ ALTERNATE 2 - RECONSTRUCT BRICK AND GRANITE CAP TO MATCH (E) CONDITION IN-KIND.
- ⑱ ALTERNATE 2 - (N) METAL HANDRAIL, POWDER COAT FINISH - SEE 2/A9.1. COORDINATE INSTALLATION WITH NEWEXISTING CONDITIONS.
- ⑲ ALTERNATE 2 - RECONSTRUCT BALUSTRADE RAILING, BRACKETS, TRIMS, AND MISC. COMPONENTS TO MATCH IN-KIND HISTORIC - PRIME AND PAINT. SEE 10/A4.4.
- ⑳ ALTERNATE 1 - PATCH HOLES IN (E) BRICK AT THIS LOCATION.
- ㉑ ALTERNATE 1 - REPAIR AND REPOINT (E) BRICK PARAPET.

**# KEYNOTES**

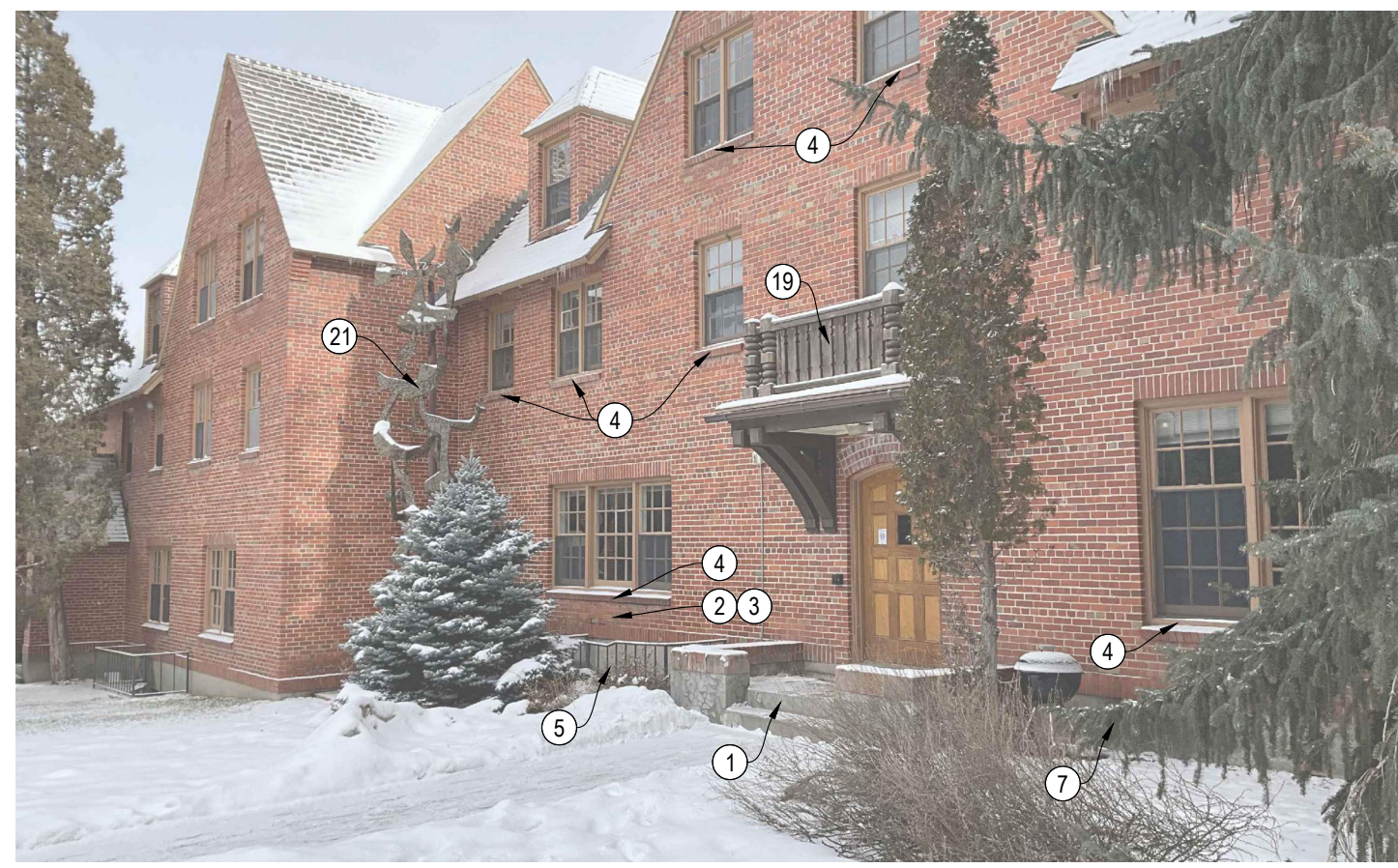
- ㉒ (N) WINDOW HEADER. SEE STRUCTURAL.
- ㉓ ALTERNATE 2 - (N) MEMBRANE ROOF ASSEMBLY. SEE 15/A9.1.
- ㉔ ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT. REINSTALL SALVAGED LIGHT FIXTURES TO MATCH (E) CONDITION IN-KIND.

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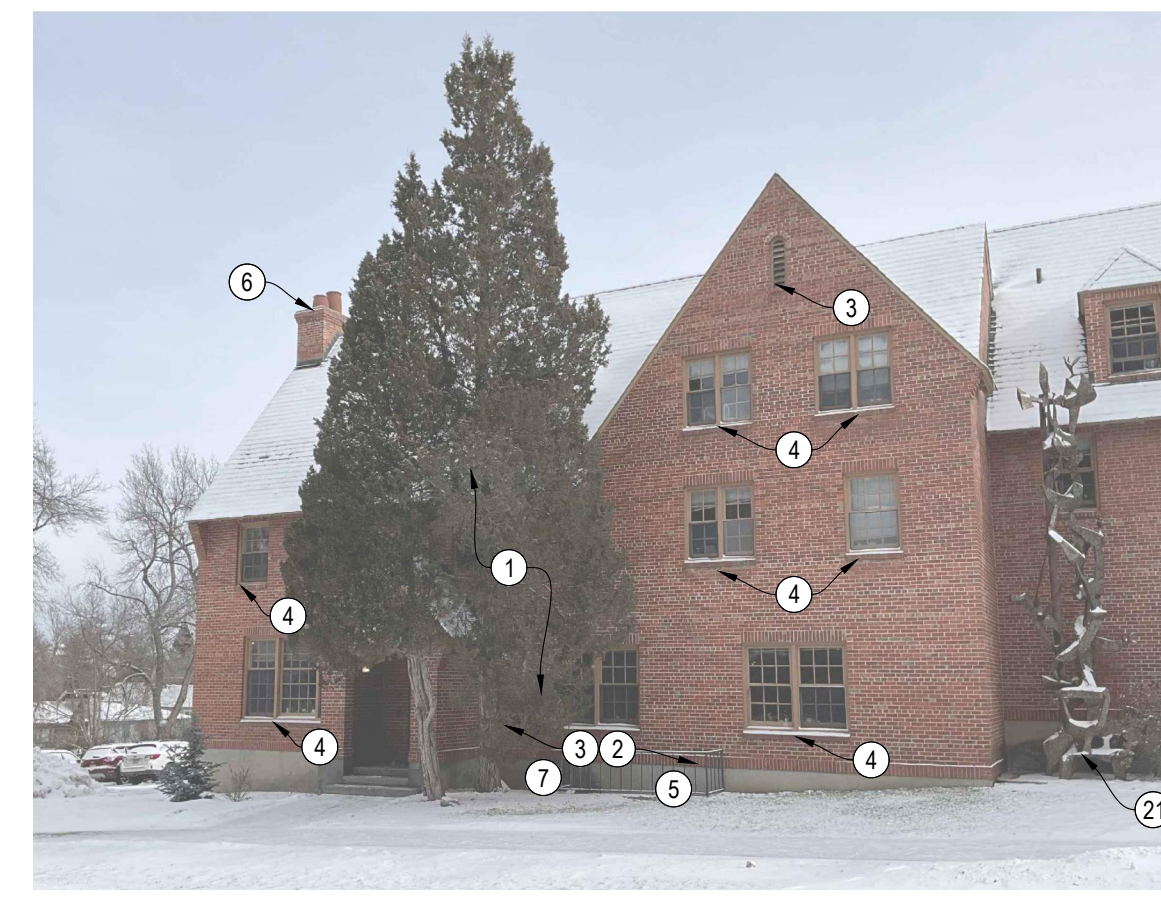




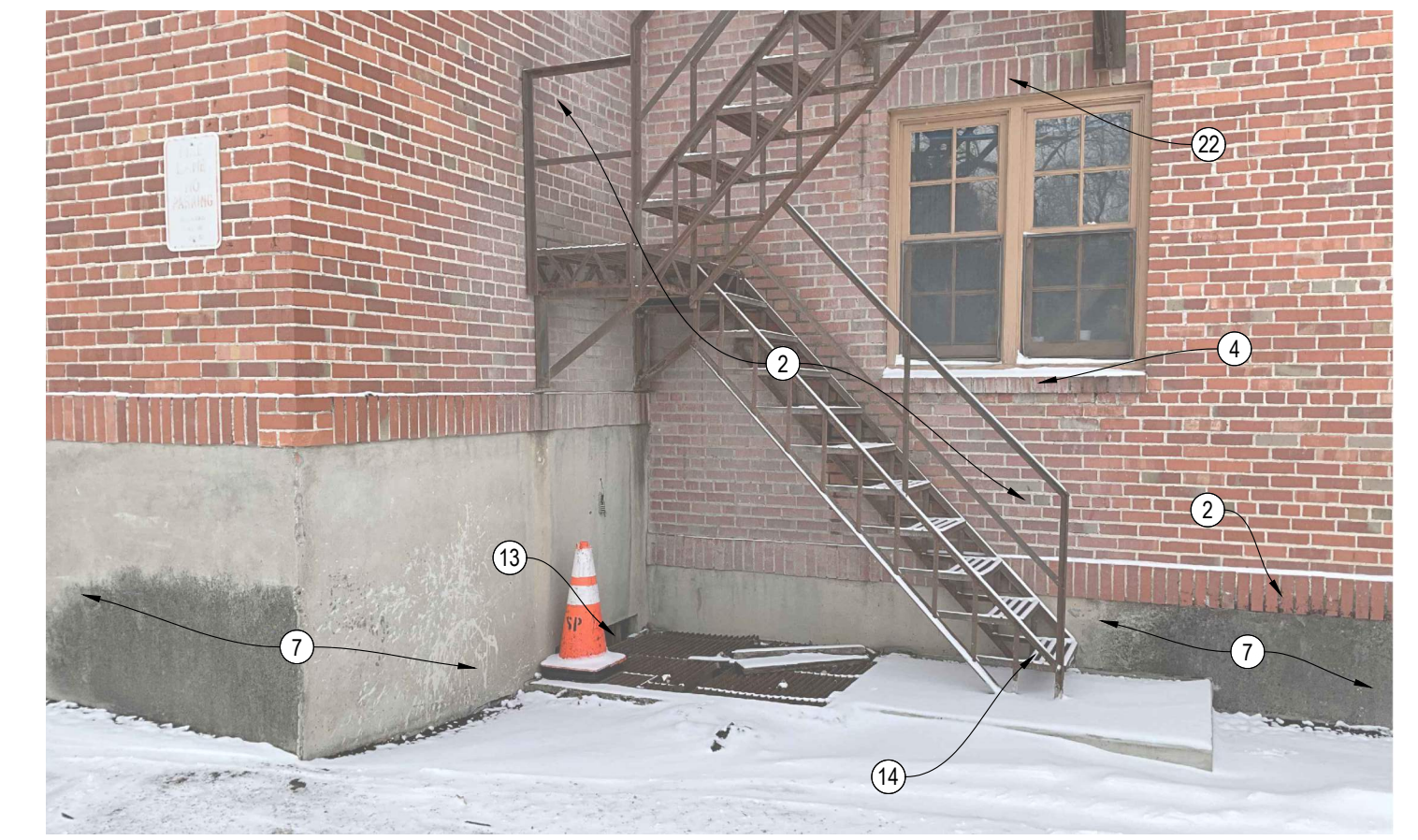
**1** QUAD A WEST ENTRY  
A2.1 : A4.4 PHOTOGRAPH



**2** QUAD A EAST ENTRY  
A2.1 : A4.4 PHOTOGRAPH



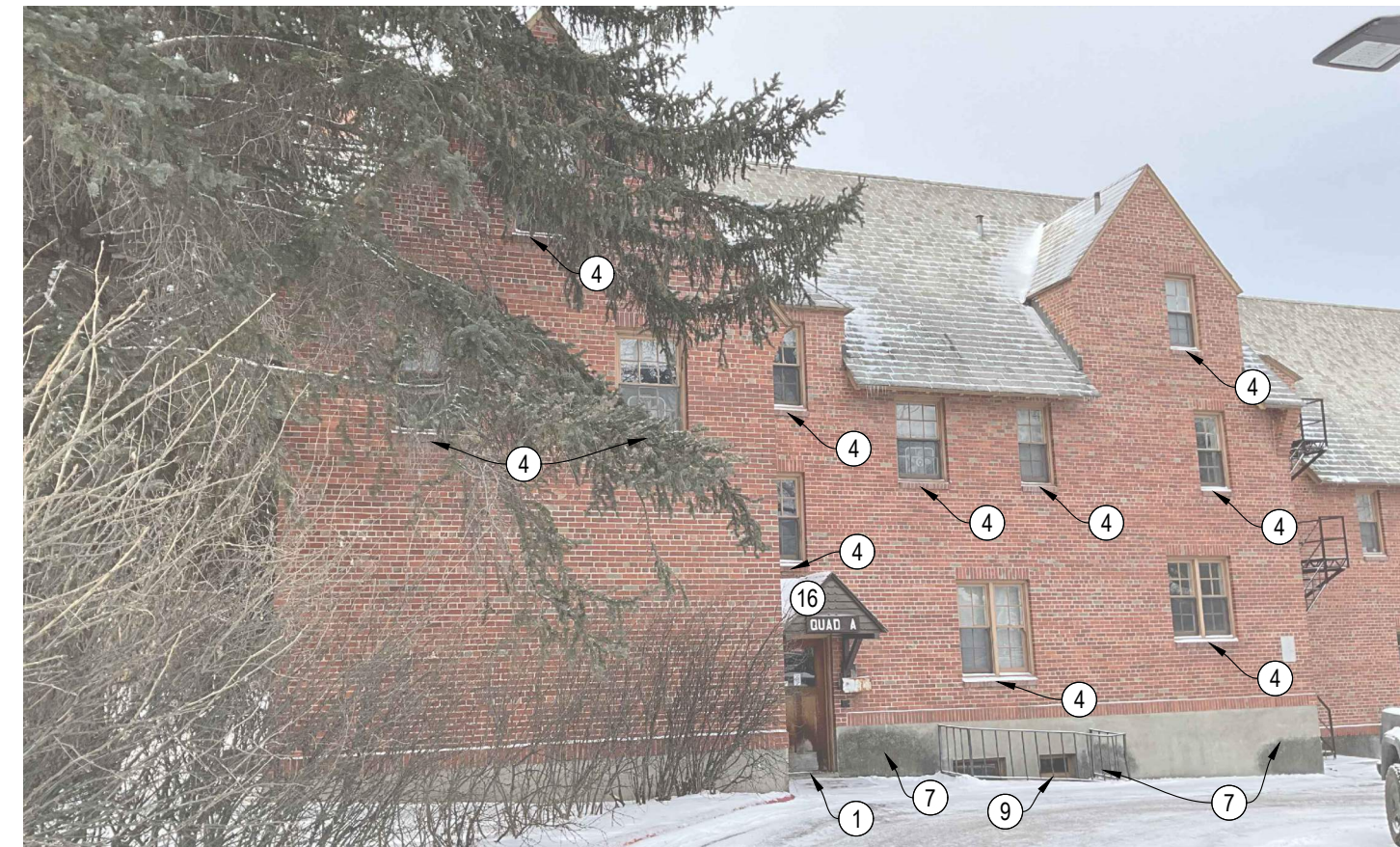
**3** QUAD B WEST ENTRY  
A2.1 : A4.4 PHOTOGRAPH



**4** QUAD B STAIR  
A2.1 : A4.4 PHOTOGRAPH



**5** QUAD A SOUTH ELEVATION  
A2.1 : A4.4 PHOTOGRAPH



**6** QUAD A EAST ELEVATION  
A2.1 : A4.4 PHOTOGRAPH



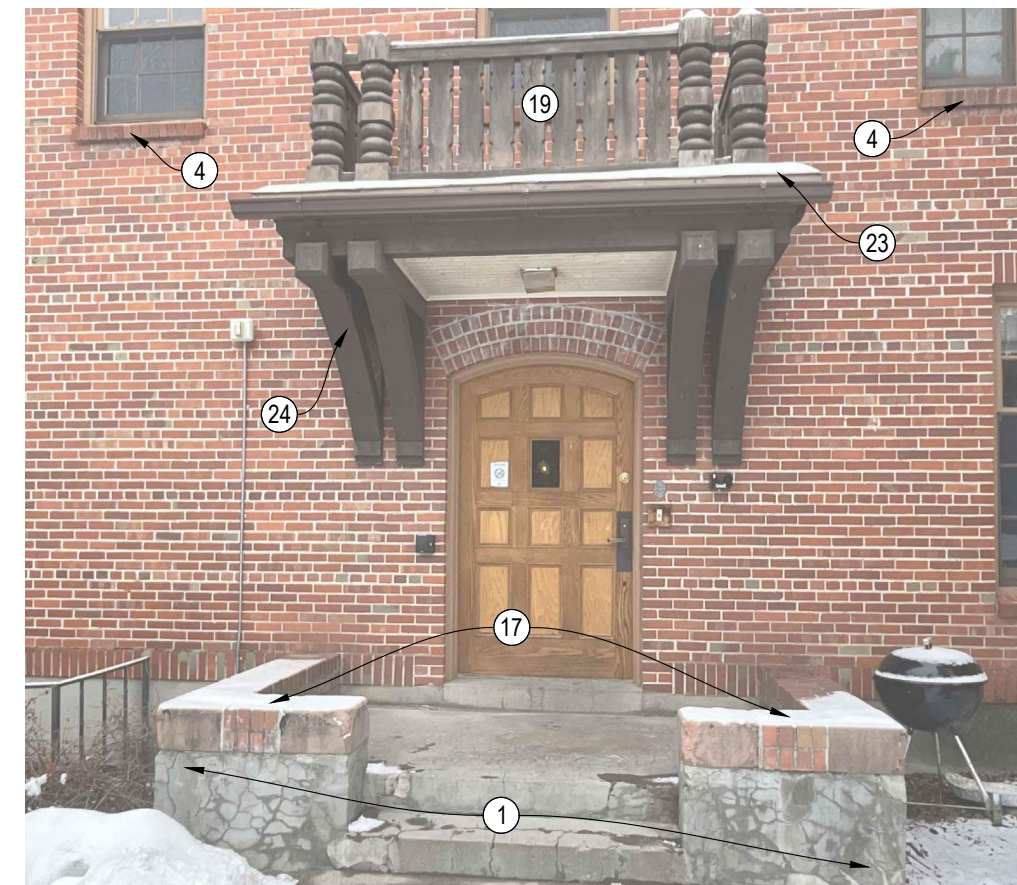
**7** QUAD B WEST ENTRY  
A2.1 : A4.4 PHOTOGRAPH



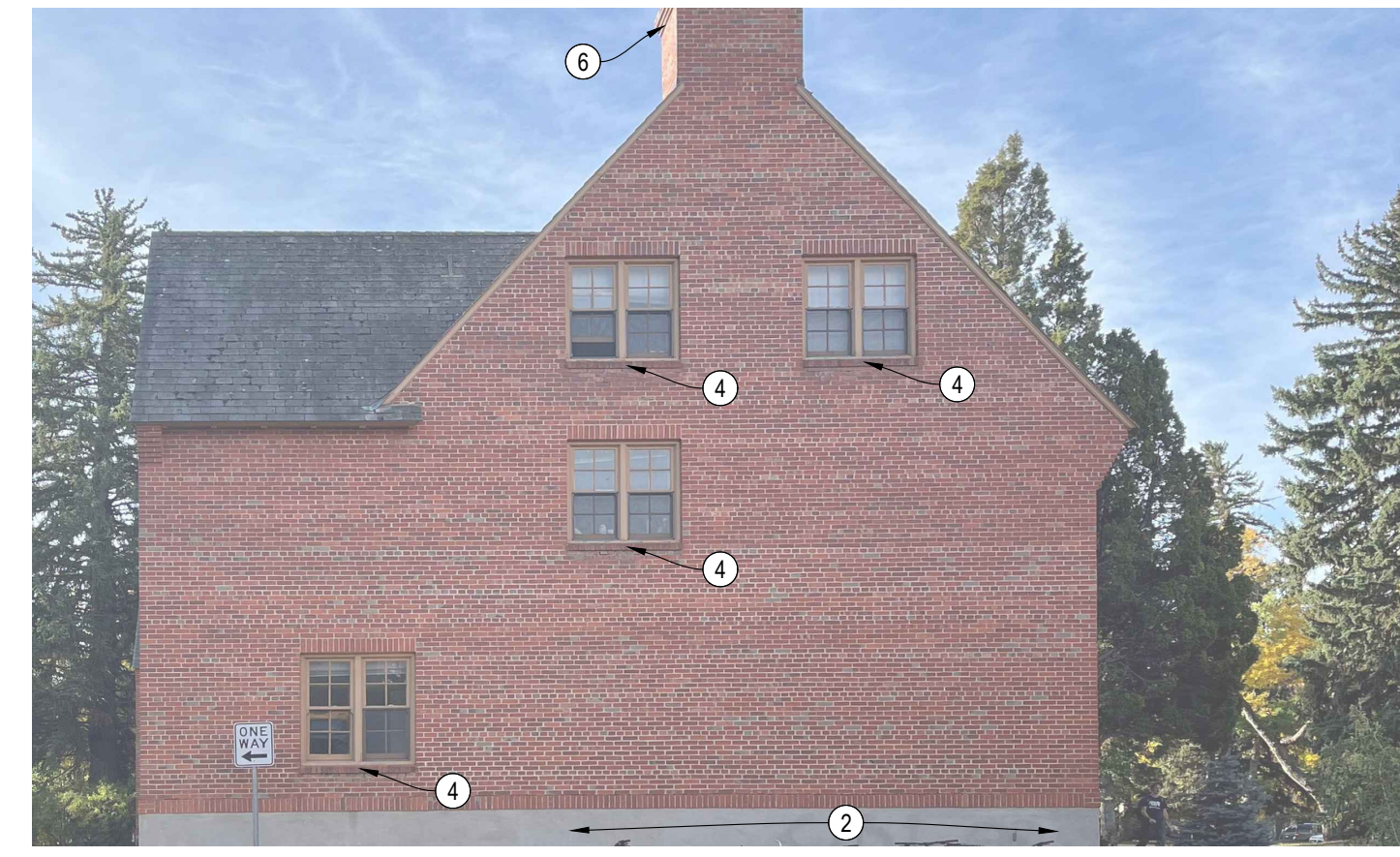
**8** QUAD B UPPER EAST ELEVATION  
A2.1 : A4.4 PHOTOGRAPH



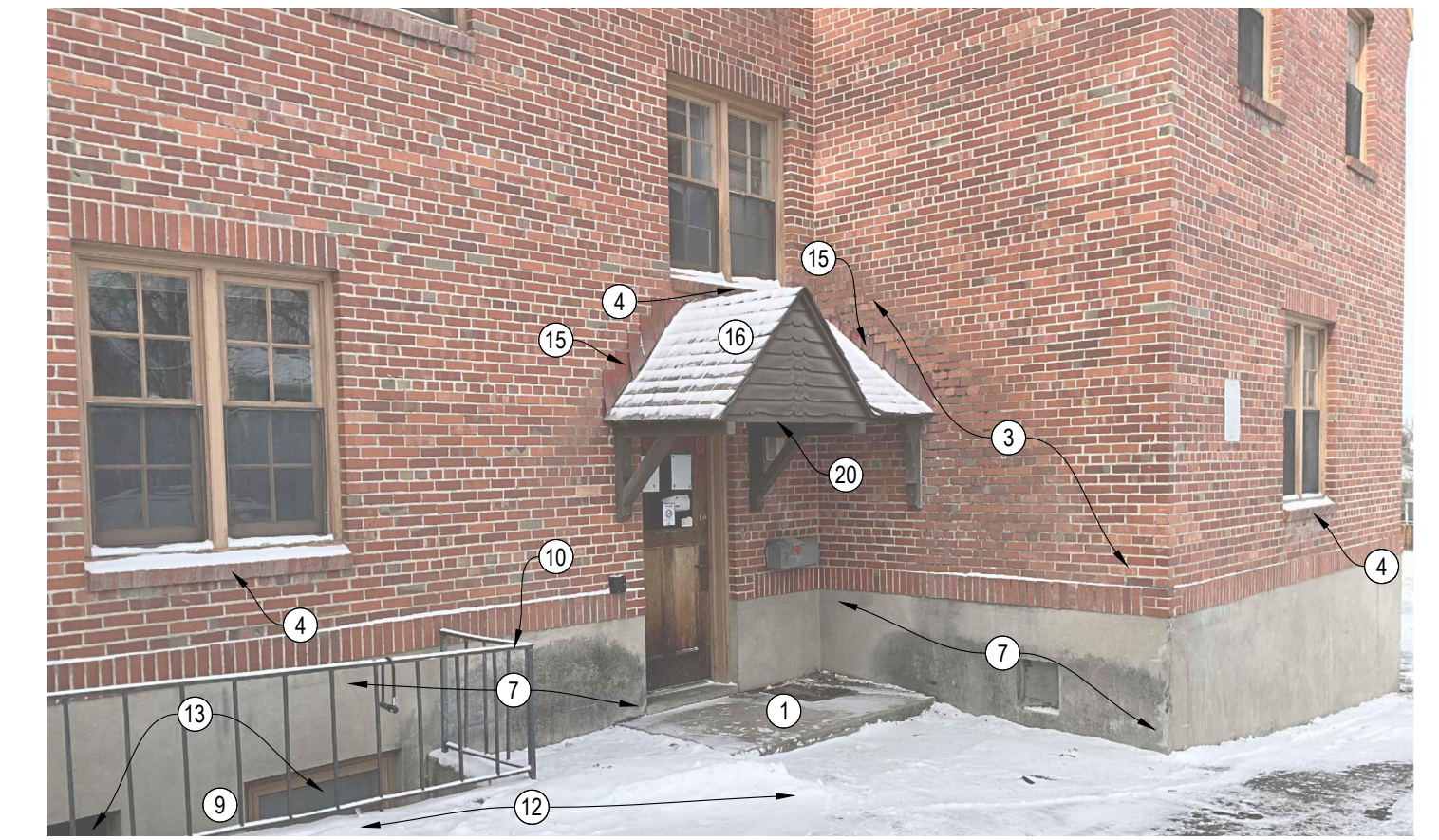
**9** QUAD A WINDOW WELL  
A2.1 : A4.4 PHOTOGRAPH



**10** QUAD A WEST ENTRY  
A2.1 : A4.4 PHOTOGRAPH



**11** QUAD B NORTH ELEVATION  
A2.1 : A4.4 PHOTOGRAPH



**12** QUAD B LOWER EAST ELEVATION / ENTRY  
A2.1 : A4.4 PHOTOGRAPH

**# KEYNOTES**

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**# KEYNOTES**

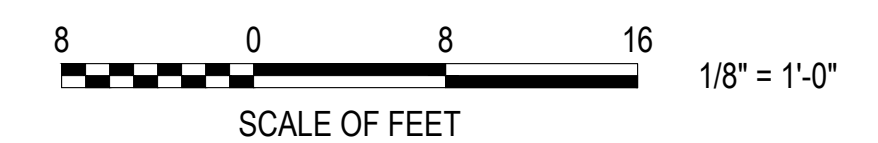
- ⑩ PROVIDE AND INSTALL (N) METAL GUARDRAIL - POWDER COAT FINISH. COORDINATE INSTALLATION WITH NEWEXISTING CONDITIONS.
- ⑪ NOT USED.
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- ⑮ ALTERNATE 2 - (N) METAL COUNTER FLASHING. SEE DETAILS 1/A9.1 AND 7/A9.1. COORDINATE WITH FIELD CONDITIONS.
- ⑯ ALTERNATE 2 - (N) WOOD SHINGLE ROOF ASSEMBLY.
- ⑰ ALTERNATE 2 - RECONSTRUCT BRICK AND GRANITE CAP TO MATCH (E) CONDITION IN-KIND.
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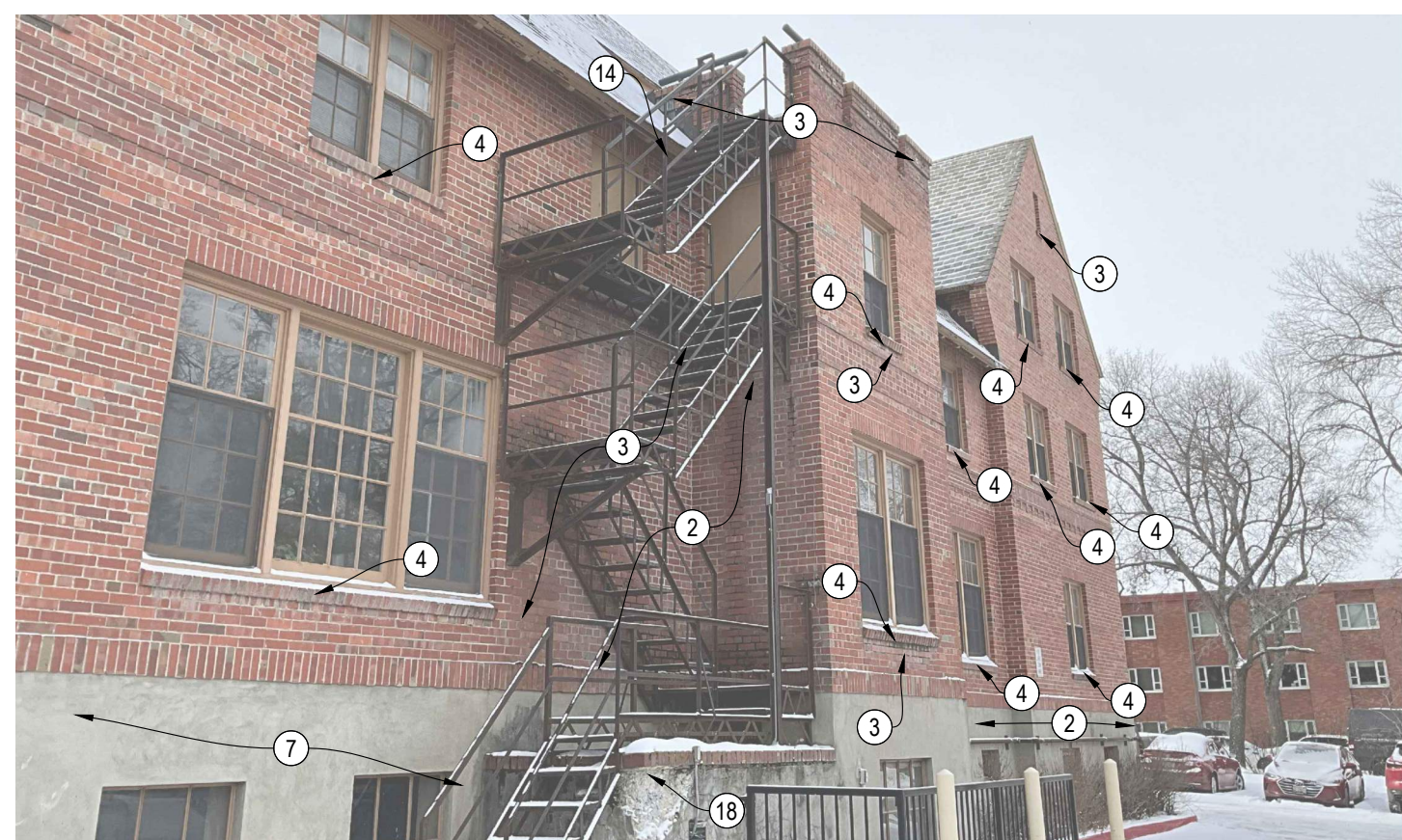
**# KEYNOTES**

- ㉒ (N) WINDOW HEADER. SEE STRUCTURAL.
- ㉓ ALTERNATE 2 - (N) MEMBRANE ROOF ASSEMBLY. SEE 15/A9.1.
- ㉔ ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT. REINSTALL SALVAGED LIGHT FIXTURES TO MATCH (E) CONDITION IN-KIND.

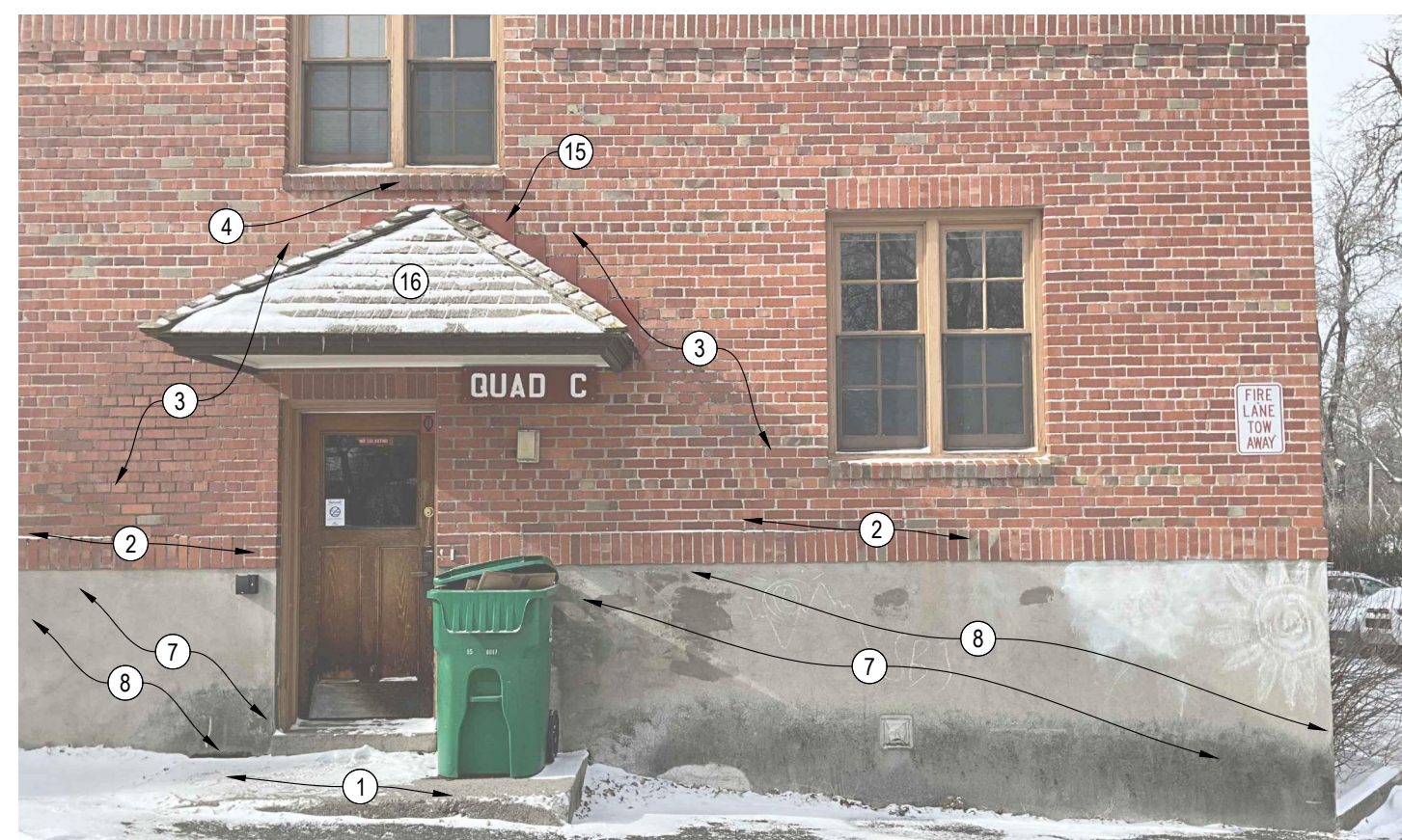
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5. REGRADE AROUND ENTIRE BUILDING AS REQUIRED TO DIRECT DRAINAGE AWAY FROM THE BUILDING. SEE CIVIL.

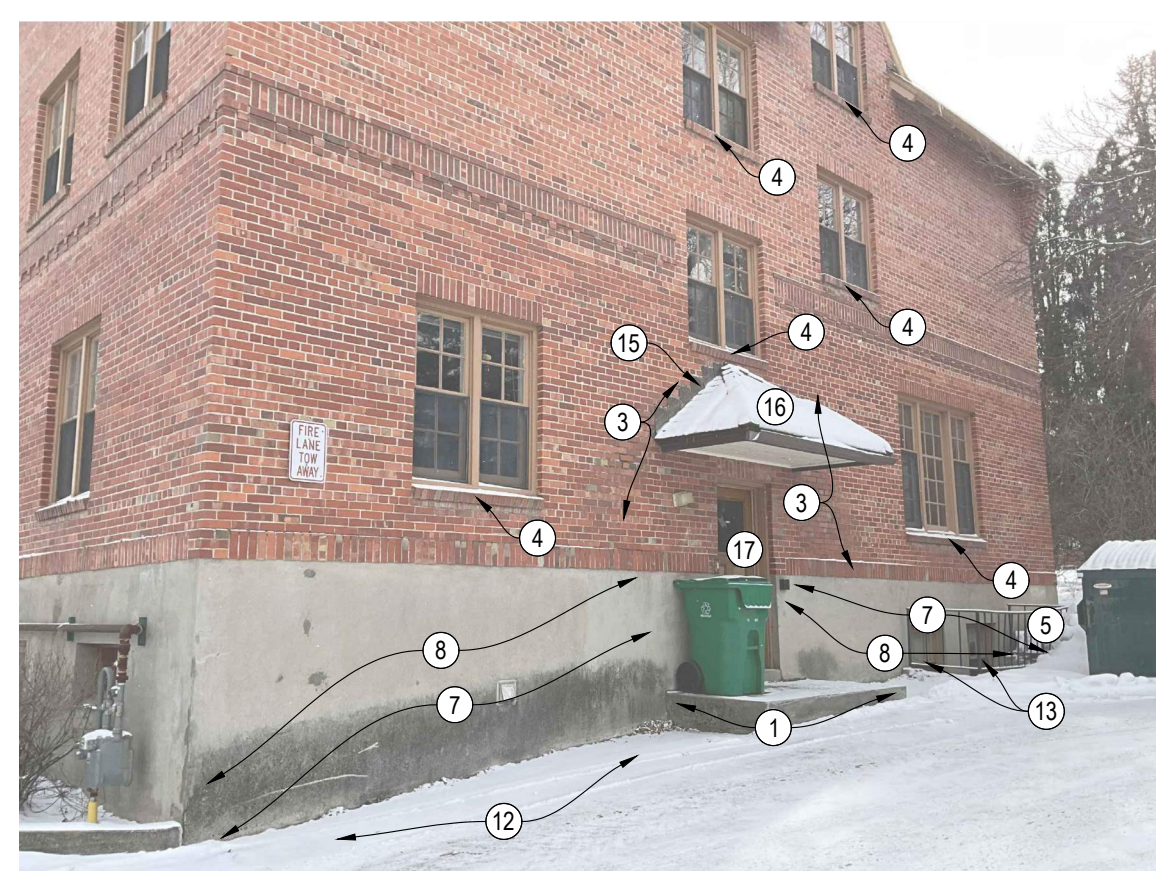




**1** QUAD C STAIR  
A2.2 : A4.5 PHOTOGRAPH



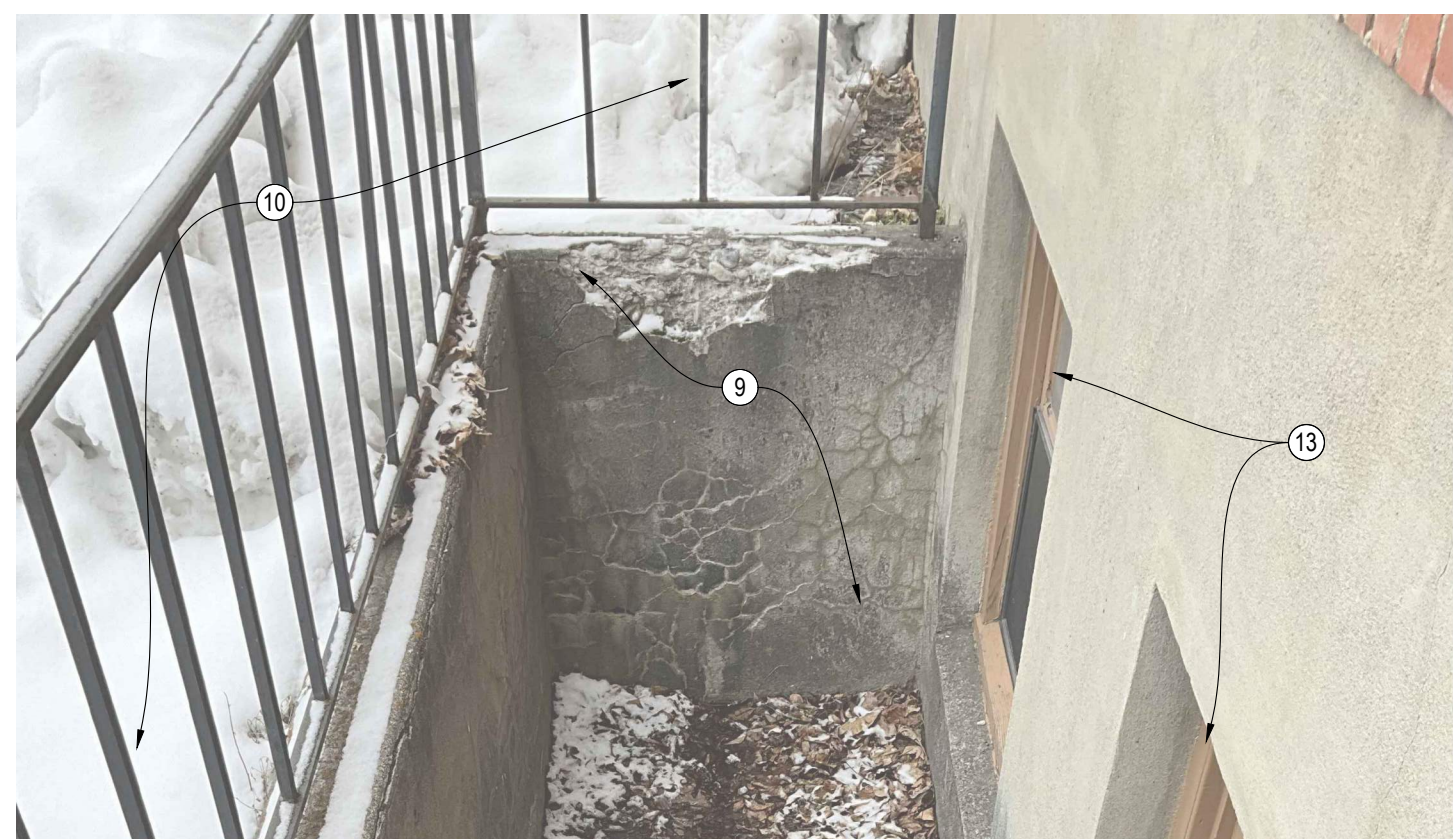
**2** QUAD C EAST ENTRY  
A2.2 : A4.5 PHOTOGRAPH



**3** QUAD D WEST ENTRY  
A2.2 : A4.5 PHOTOGRAPH



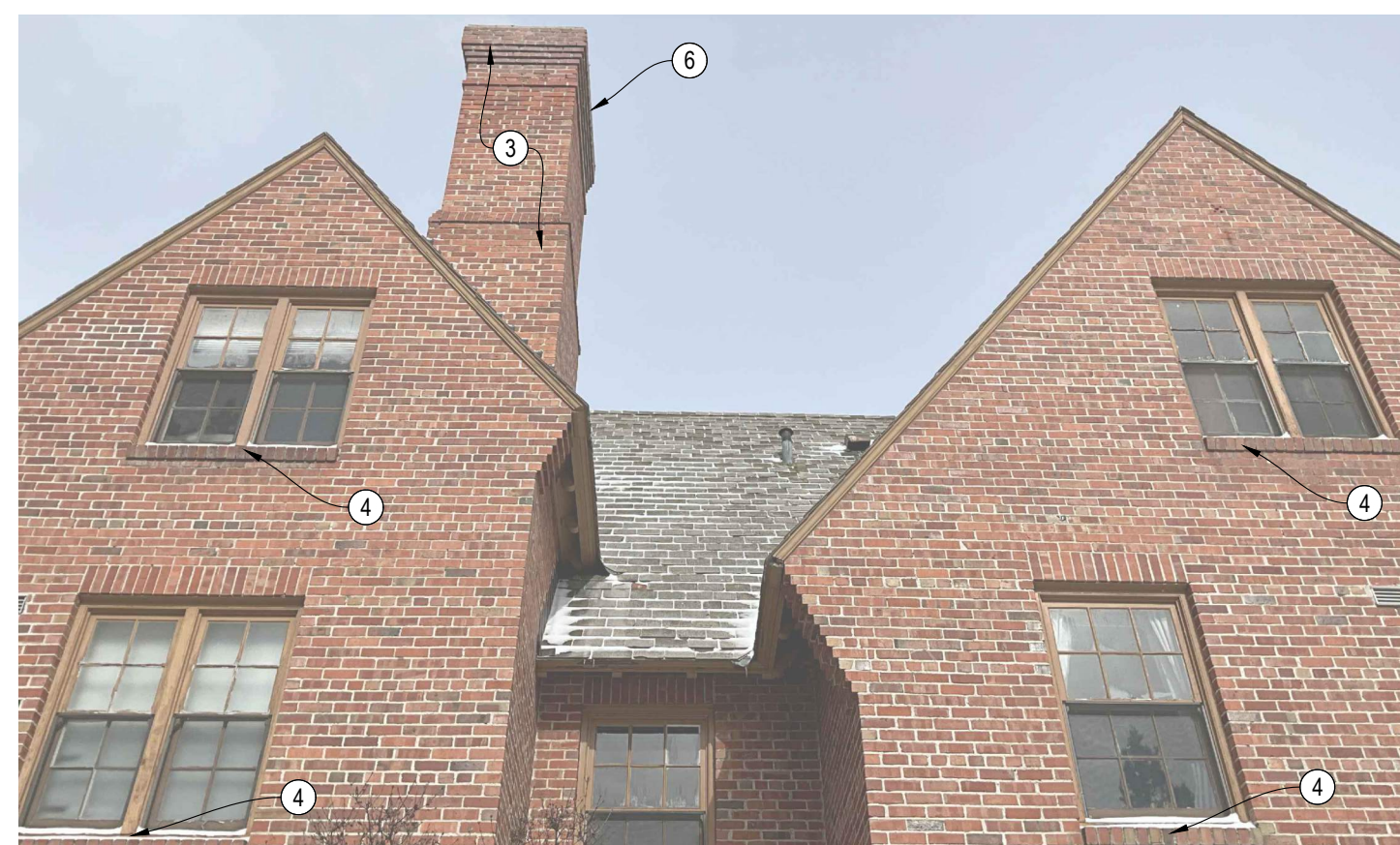
**4** QUAD D SOUTHWEST ELEVATION  
A2.2 : A4.5 PHOTOGRAPH



**5** QUAD C WINDOW WELL  
A2.2 : A4.5 PHOTOGRAPH



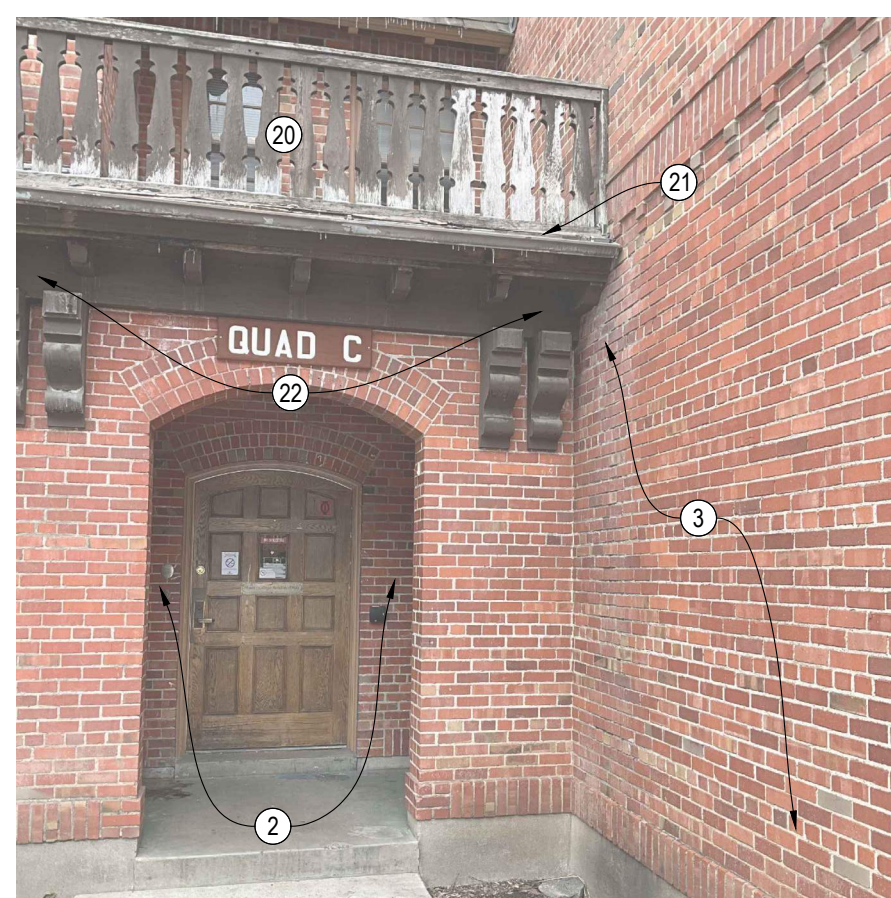
**6** QUAD C SOUTH ELEVATION  
A2.2 : A4.5 PHOTOGRAPH



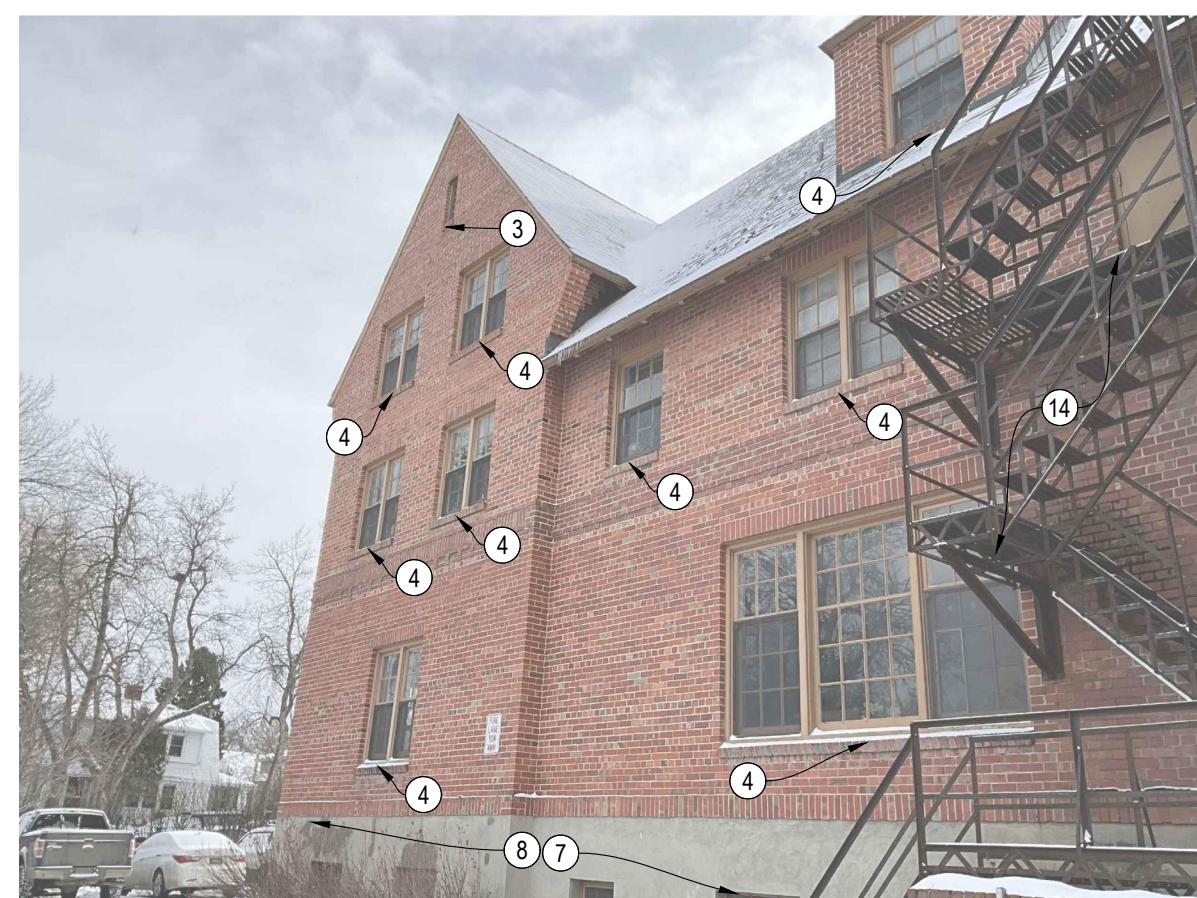
**7** QUAD D SOUTH ELEVATION  
A2.2 : A4.5 PHOTOGRAPH



**8** QUAD D SOUTH PORCH  
A2.2 : A4.5 PHOTOGRAPH



**9** QUAD C SOUTH ENTRY  
A2.2 : A4.5 PHOTOGRAPH



**10** QUAD C NORTH ELEVATION  
A2.2 : A4.5 PHOTOGRAPH



**11** QUAD D NORTH ELEVATION  
A2.2 : A4.5 PHOTOGRAPH



**12** QUAD D SOUTH ENTRY  
A2.2 : A4.5 PHOTOGRAPH



**13** QUAD C SOUTH ENTRY DETAIL  
A2.2 : A4.5 PHOTOGRAPH

**# KEYNOTES**

- ① ALTERNATE 2 - PROVIDE (N) CONCRETE STAIR AND LANDING TO MATCH IN-KIND HISTORIC. COORDINATE REINSTALLATION OF SALVAGED FINISH COMPONENTS IN ORIGINAL LOCATIONS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- ② ALTERNATE 1 - CLEAN BRICK, MORTAR, AND ASSOCIATED MASONRY FINISHES TO REMOVE BIOLOGICAL GROWTH, GRAFFITI, AND OTHER DISCOLORATION. COORDINATE EXTENT WITH FIELD CONDITIONS.
- ③ ALTERNATE 1 - REPAIR AND REPOINT DAMAGED MASONRY/MORTAR. FIELD COORDINATE EXTENT - ASSUME MINIMUM 7.5% OF TOTAL BUILDING AREA.
- ④ ALTERNATE 1 - REPAIR AND REPOINT DAMAGED MASONRY WINDOW SILL AND ADJACENT FINISH/CASING. FIELD COORDINATE EXTENT.
- ⑤ REPLACE CONCRETE WINDOW WELL WITH (N) CONCRETE WINDOW WELL. COORDINATE EXTENTS WITH EXISTING TO MATCH IN-KIND SIZE. COORDINATE (N) TOP ELEVATION WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.
- ⑥ ALTERNATE 1 - CLEAN, REPAIR, AND REPOINT BRICK AND MORTAR AT (E) CHIMNEY. PROVIDE NEW POWDER COATED METAL CAP TO SEAL UNUSED FLUES.
- ⑦ ALTERNATE 1 - CLEAN AND REPAIR MASONRY PARGE COAT FINISH OF ALL BIOLOGICAL GROWTH, GRAFFITI, DISCOLORATION, CRACKING, SPALLING, AND DELAMINATION - FIELD COORDINATE EXTENT.
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- ⑨ STABILIZE AND REPAIR CRACKING/DAMAGED CONCRETE WINDOW WELL. REFERENCE STRUCTURAL REQUIREMENTS FOR ADDITIONAL INFORMATION. COORDINATE EXTENT. PROVIDE CONCRETE EXTENSION TO NEW ELEVATION - COORDINATE WITH CIVIL AND ADJACENT GRADING. SEE DETAIL 13/A9.1 FOR ADDITIONAL INFORMATION.

**# KEYNOTES**

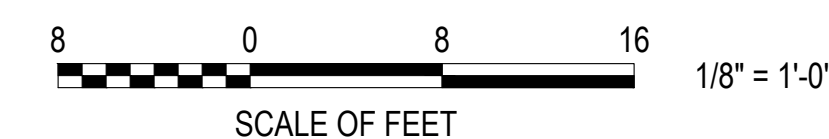
- ⑩ PROVIDE AND INSTALL (N) METAL GUARDRAIL - POWDER COAT FINISH. COORDINATE INSTALLATION WITH NEW/EXISTING CONDITIONS.
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- ⑭ COORDINATE CLEANING AND REMOVAL OF ALL LOOSE, DAMAGED, AND DETERIORATED FINISH/URST IN ITS ENTIRETY. REPAIR AND STRUCTURALLY STABILIZE FIRE ESCAPE COMPONENTS AND CONNECTIONS PER STRUCTURAL. PRIME AND PAINT IN ITS ENTIRETY.
- ⑮ ALTERNATE 2 - (N) METAL COUNTER FLASHING. SEE DETAILS 1/A9.1 AND 7/A9.1. COORDINATE WITH FIELD CONDITIONS.
- ⑯ ALTERNATE 2 - (N) WOOD SHINGLE ROOF ASSEMBLY.
- ⑰ INFILL (E) OPENING.
- ⑱ ALTERNATE 2 - RECONSTRUCT CONCRETE PODIUM AND TOPPING SLAB TO MATCH (E) HISTORIC CONDITION IN-KIND. REINSTALL SALVAGED PORTION OF FIRE ESCAPE. SEE STRUCTURAL FOR ADDITIONAL INFORMATION. COORDINATE WITH (N) GRADING.
- ⑳ ALTERNATE 2 - PROVIDE AND INSTALL (N) CONCRETE SLAB AT ENTRY TO MATCH (E) IN-KIND. COORDINATE ELEVATION WITH NEW GRADES. SEE STRUCTURAL.
- ㉑ ALTERNATE 2 - RECONSTRUCT BALUSTRADE RAILING, BRACKETS, TRIMS, AND MISC. COMPONENTS TO MATCH IN-KIND HISTORIC - PRIME AND PAINT.

**# KEYNOTES**

- ㉒ ALTERNATE 2 - (N) MEMBRANE ROOF ASSEMBLY. SEE 15/A9.1.
- ㉓ ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT.
- ㉔ ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT. REINSTALL SALVAGED LIGHT FIXTURES TO MATCH (E) CONDITION IN-KIND.

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- 5. REGRADE AROUND ENTIRE BUILDING AS REQUIRED TO DIRECT DRAINAGE AWAY FROM THE BUILDING. SEE CIVIL.



sheet QUAD C-D PHOTOGRAPHS

project **ATKINSON QUADRANGLE EXTERIOR REPAIRS**

owner MONTANA STATE UNIVERSITY

project # **23123.00**

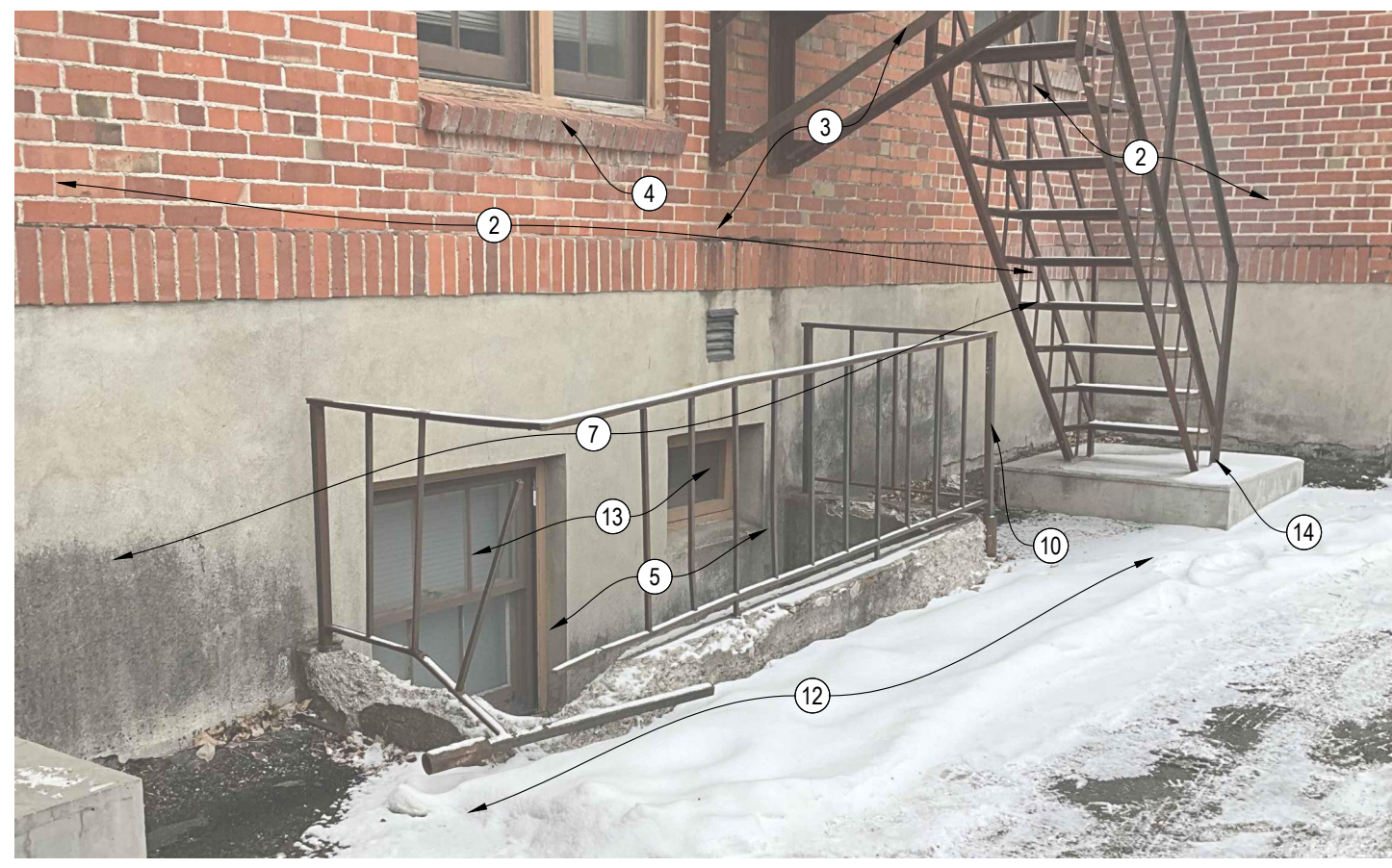
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phase **CONSTRUCTION DOCUMENTS**

issue date **01.24.2025**

**A4.5**





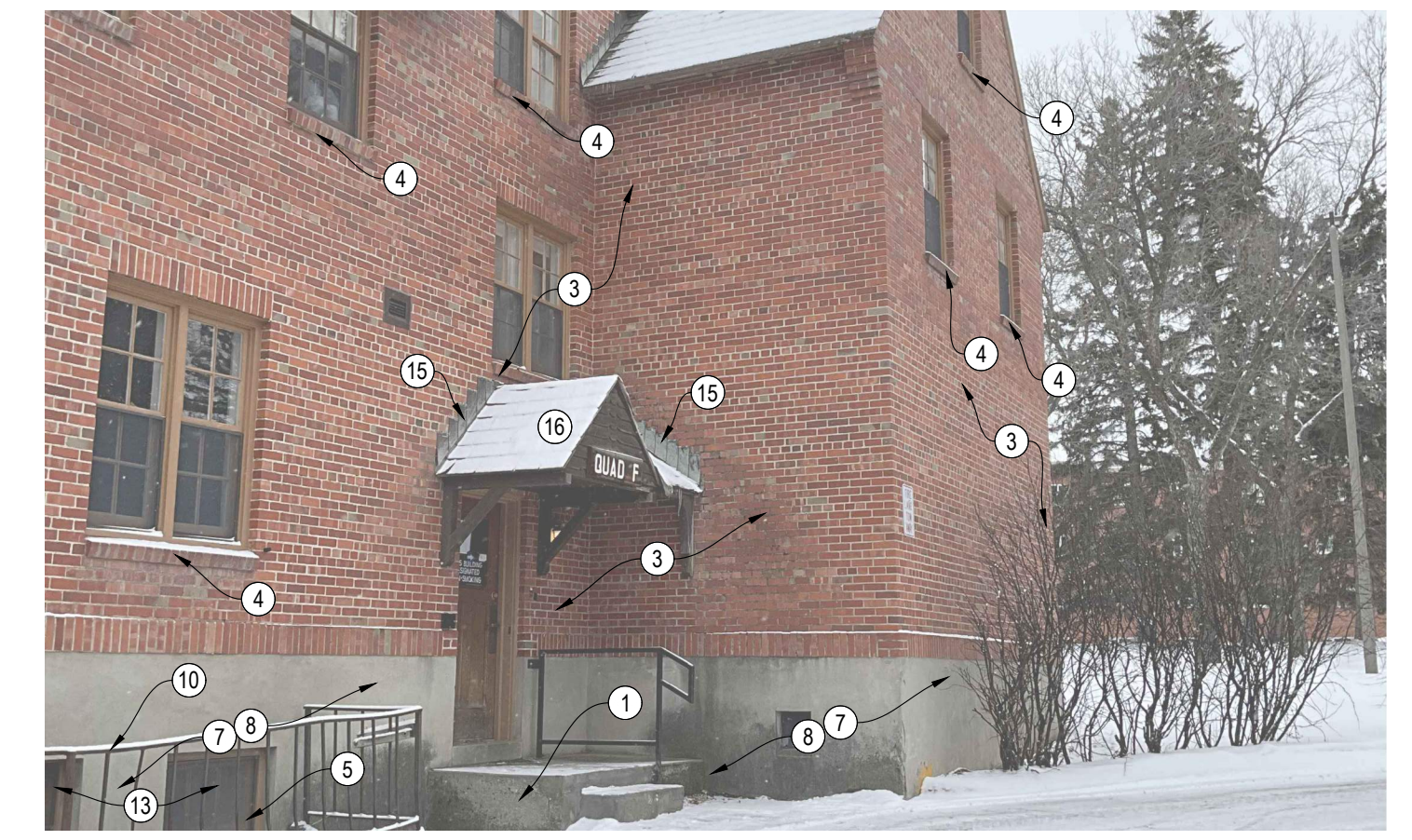
**1** QUAD E WEST WINDOW WELL  
A2.3 : A4.6 PHOTOGRAPH



**2** QUAD E EAST ROOF  
A2.3 : A4.6 PHOTOGRAPH



**3** QUAD F EAST ENTRY  
A2.3 : A4.6 PHOTOGRAPH



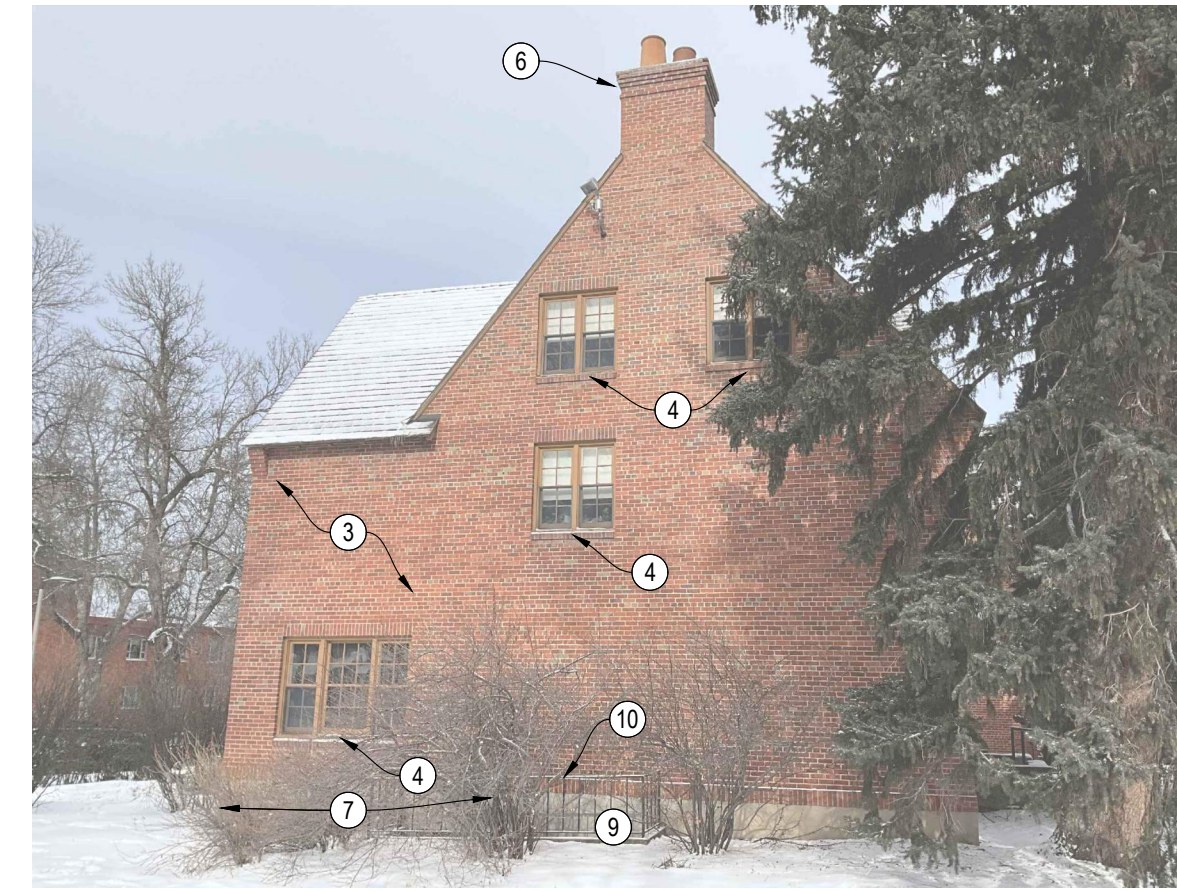
**4** QUAD F WEST ENTRY  
A2.3 : A4.6 PHOTOGRAPH



**5** QUAD E CONCRETE STOOP  
A2.3 : A4.6 PHOTOGRAPH



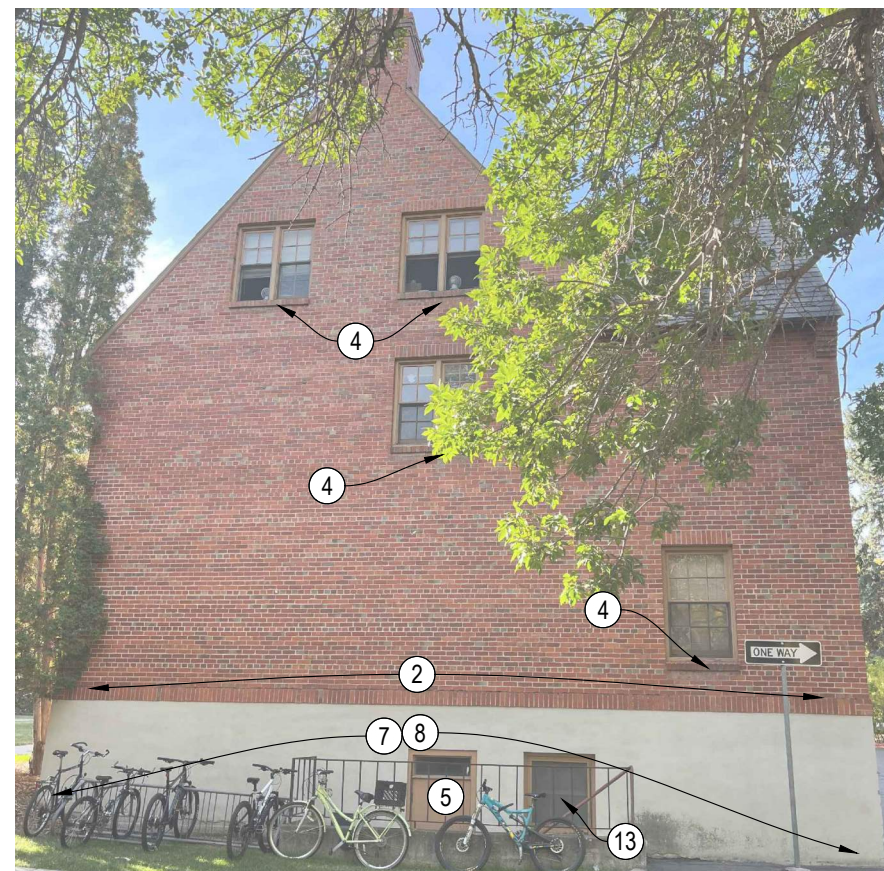
**6** QUAD E EAST ELEVATION  
A2.3 : A4.6 PHOTOGRAPH



**7** QUAD F SOUTH ELEVATION  
A2.3 : A4.6 PHOTOGRAPH



**8** QUAD F EAST ELEVATION  
A2.3 : A4.6 PHOTOGRAPH



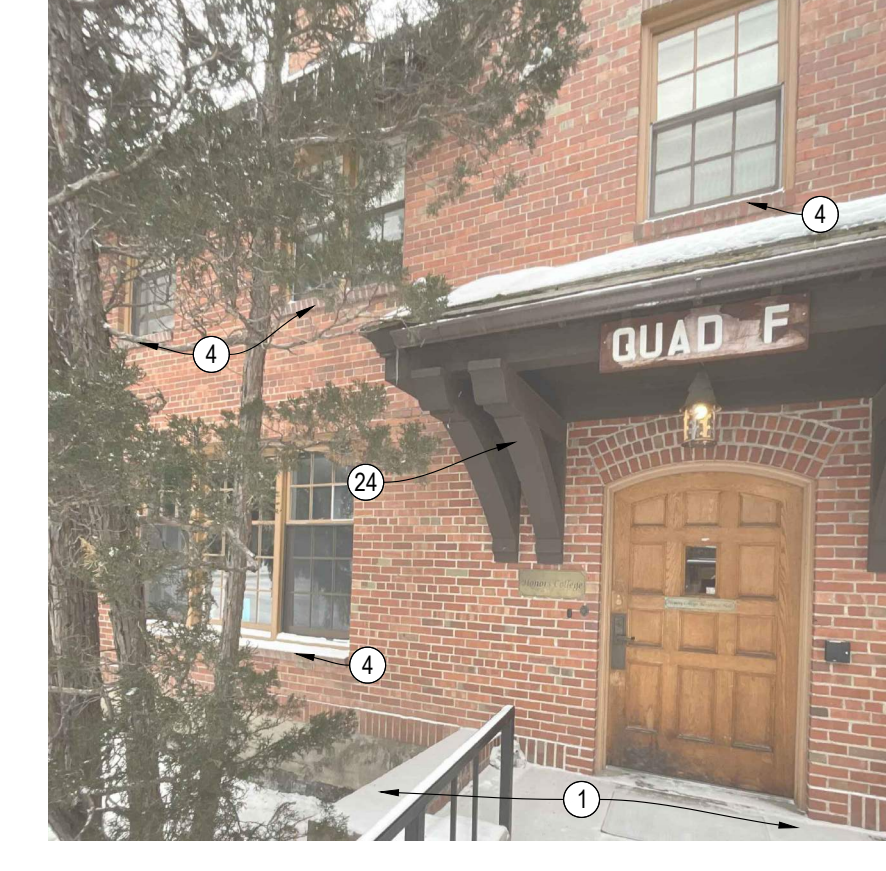
**9** QUAD E NORTH ELEVATION  
A2.3 : A4.6 PHOTOGRAPH



**10** QUAD E EAST ENTRY  
A2.3 : A4.6 PHOTOGRAPH



**11** QUAD F EAST WINDOW WELL  
A2.3 : A4.6 PHOTOGRAPH



**12** QUAD F EAST ENTRY  
A2.3 : A4.6 PHOTOGRAPH



**5** QUAD F EAST ENTRY DETAIL  
A2.3 : A4.6 PHOTOGRAPH

**# KEYNOTES**

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**# KEYNOTES**

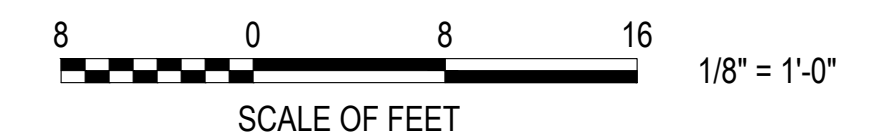
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- ⑮ ALTERNATE 2 - (N) METAL COUNTER FLASHING. SEE DETAILS 1/A9.1 AND 7/A9.1. COORDINATE WITH FIELD CONDITIONS.
- ⑯ ALTERNATE 2 - (N) WOOD SHINGLE ROOF ASSEMBLY.
- ⑰ ALTERNATE 2 - RECONSTRUCT BRICK AND GRANITE CAP TO MATCH (E) CONDITION IN-KIND.
- ⑱ ALTERNATE 2 - (N) METAL HANDRAIL, POWDER COAT FINISH - SEE 2/A9.1. COORDINATE INSTALLATION WITH NEWEXISTING CONDITIONS.
- ⑲ ALTERNATE 2 - RECONSTRUCT BALUSTRADE RAILING, BRACKETS, TRIMS, AND MISC. COMPONENTS TO MATCH IN-KIND HISTORIC - PRIME AND PAINT. SEE 10/A4.4.
- ⑳ ALTERNATE 1 - PATCH HOLES IN (E) BRICK AT THIS LOCATION.
- ㉑ ALTERNATE 1 - REPAIR AND REPOINT (E) BRICK PARAPET.

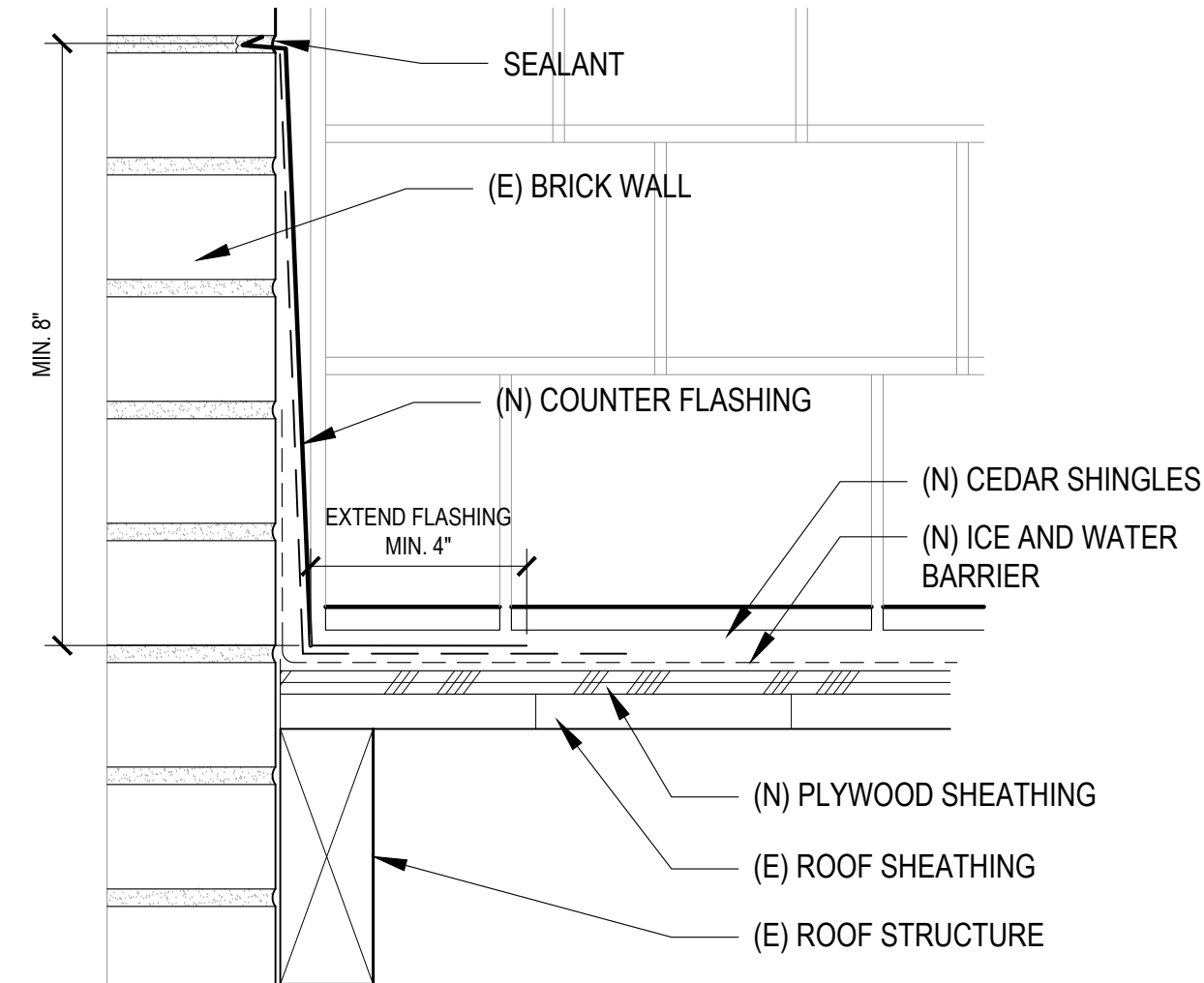
**# KEYNOTES**

- ㉒ (N) WINDOW HEADER. SEE STRUCTURAL.
- ㉓ ALTERNATE 2 - (N) MEMBRANE ROOF ASSEMBLY. SEE 15/A9.1.
- ㉔ ALTERNATE 2 - PROVIDE AND INSTALL NEW REPLICA PORCH ELEMENTS TO REPLACE ALL DAMAGED COMPONENTS IN-KIND. PRIME AND PAINT. REINSTALL SALVAGED LIGHT FIXTURES TO MATCH (E) CONDITION IN-KIND.

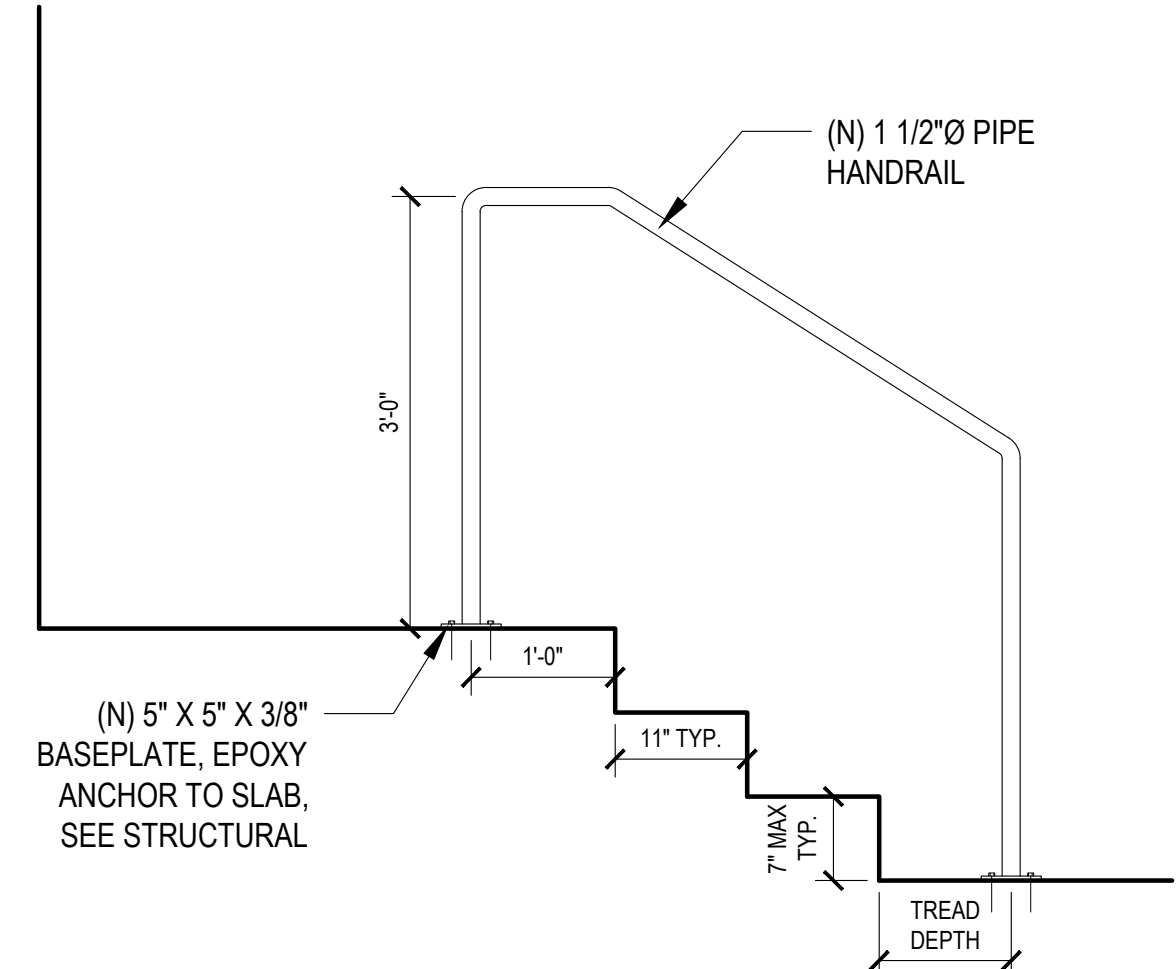
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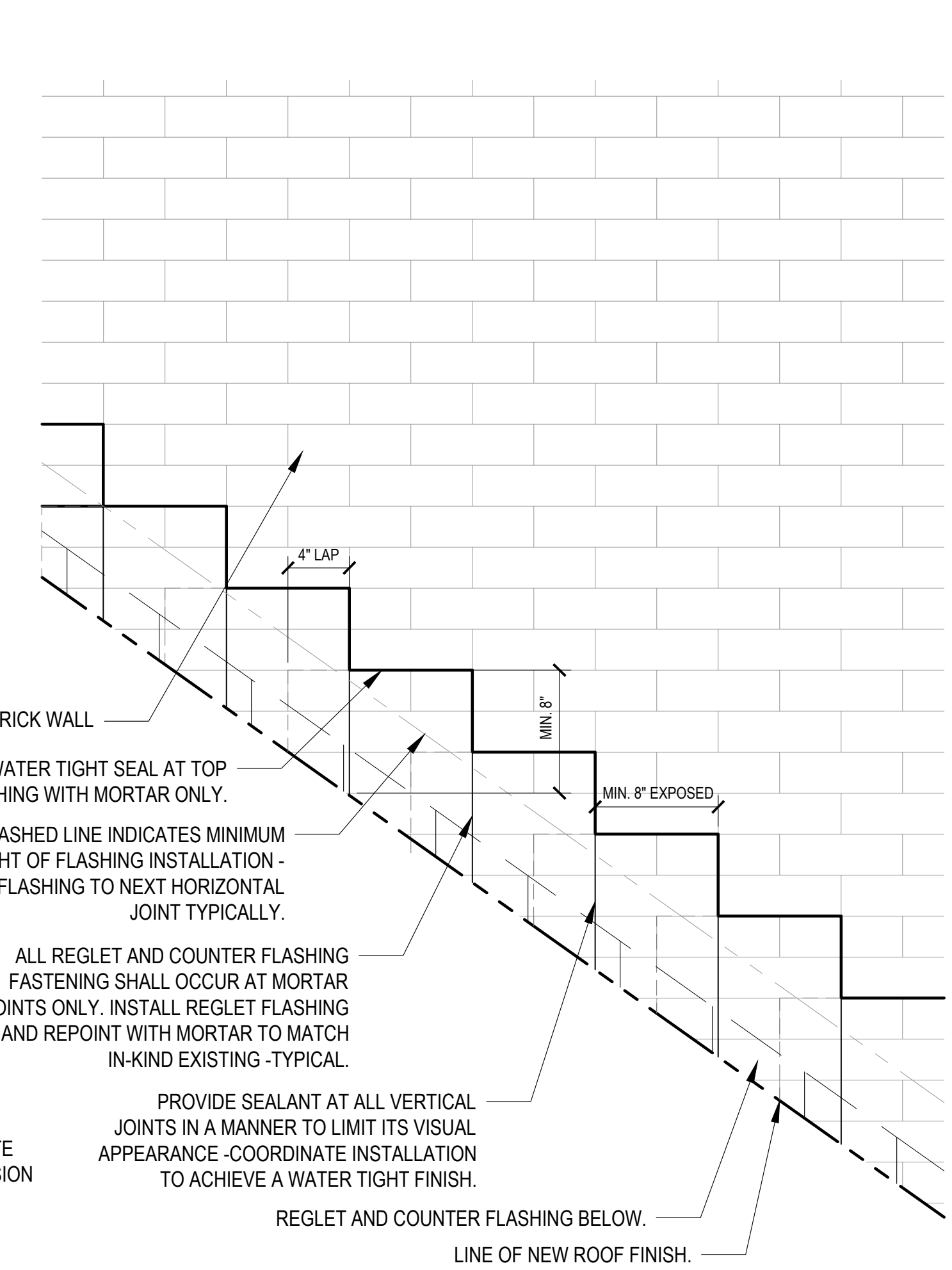




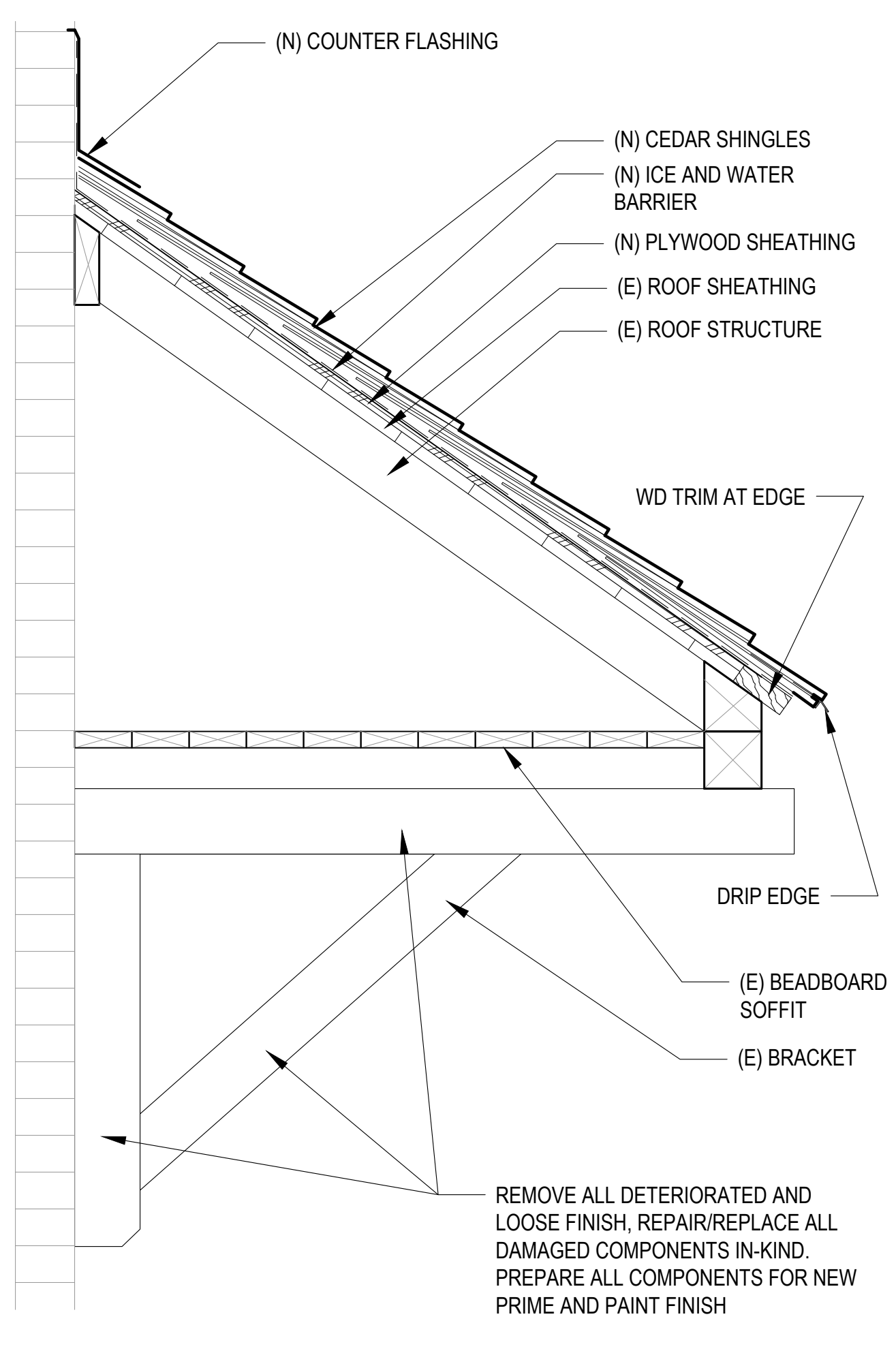
**1** COUNTER FLASHING SECTION DETAIL  
A4.1 : A9.1 3" = 1'-0"



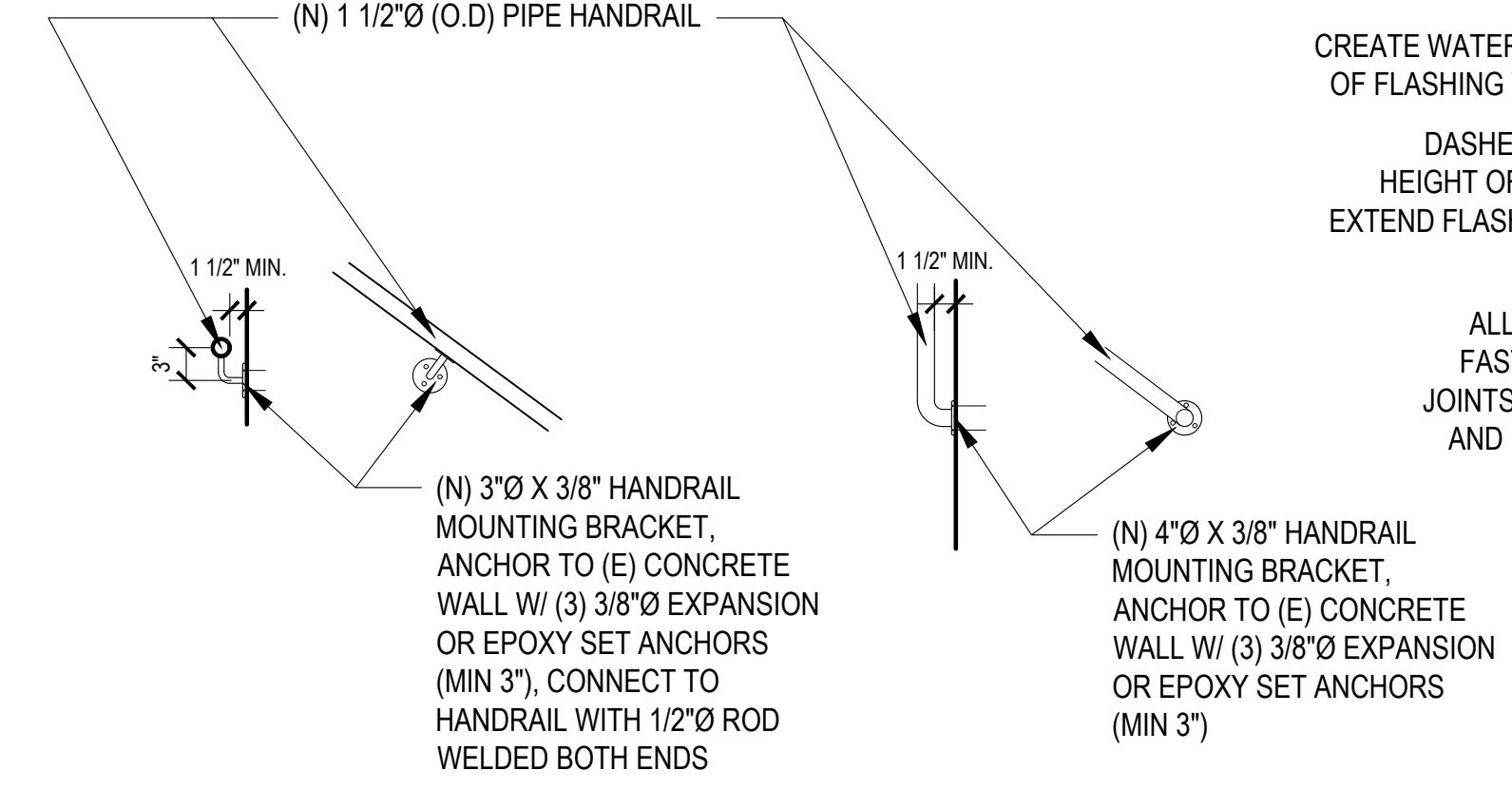
**2** TYPICAL PIPE HANDRAIL DETAIL  
A2.1 : A9.1 3/4" = 1'-0"



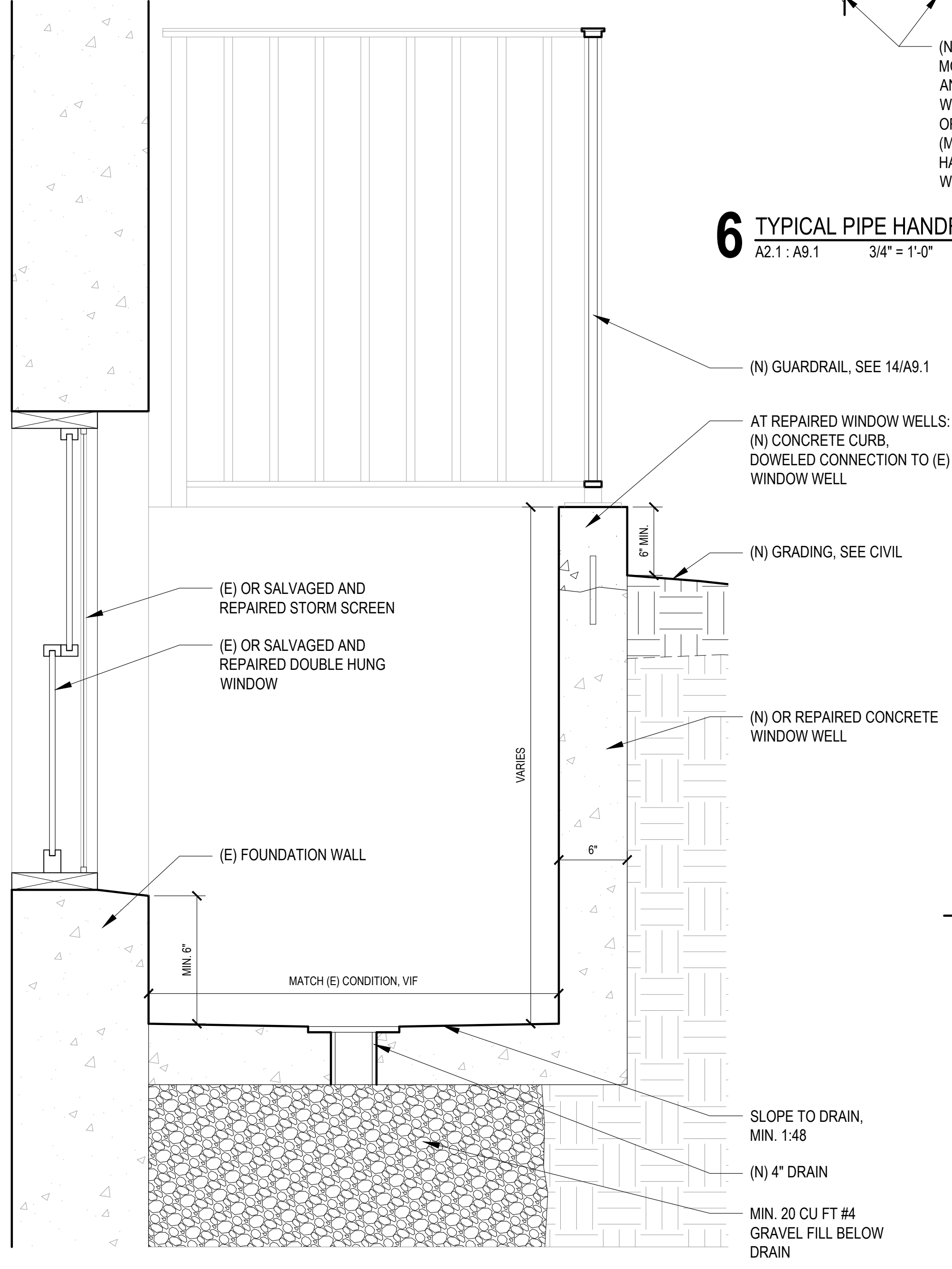
**7** COUNTER FLASHING ELEVATION DETAIL  
A4.1 : A9.1 1 1/2" = 1'-0"



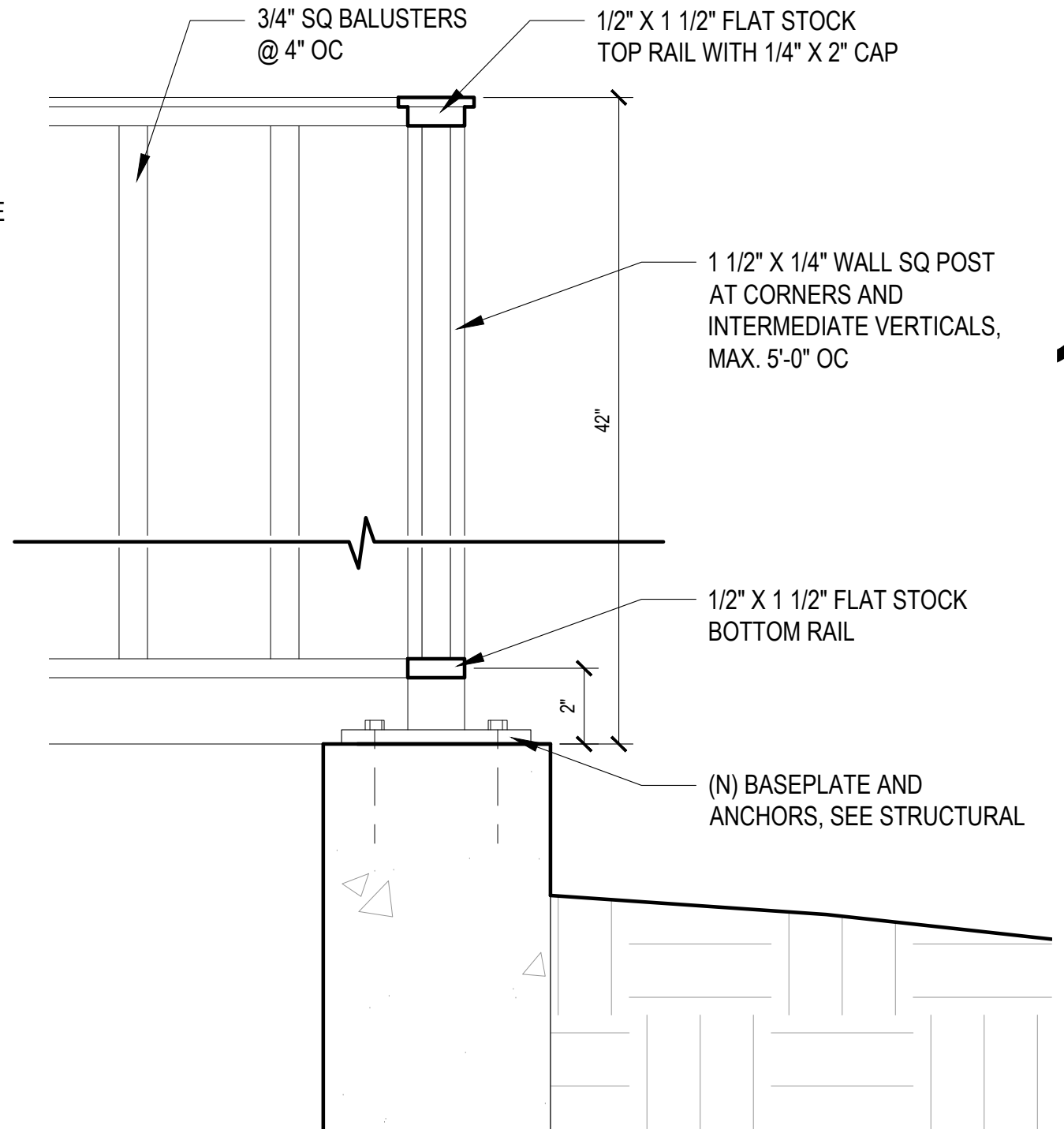
**8** TYPICAL PORCH ROOF SECTION DETAIL  
A4.1 : A9.1 1 1/2" = 1'-0"



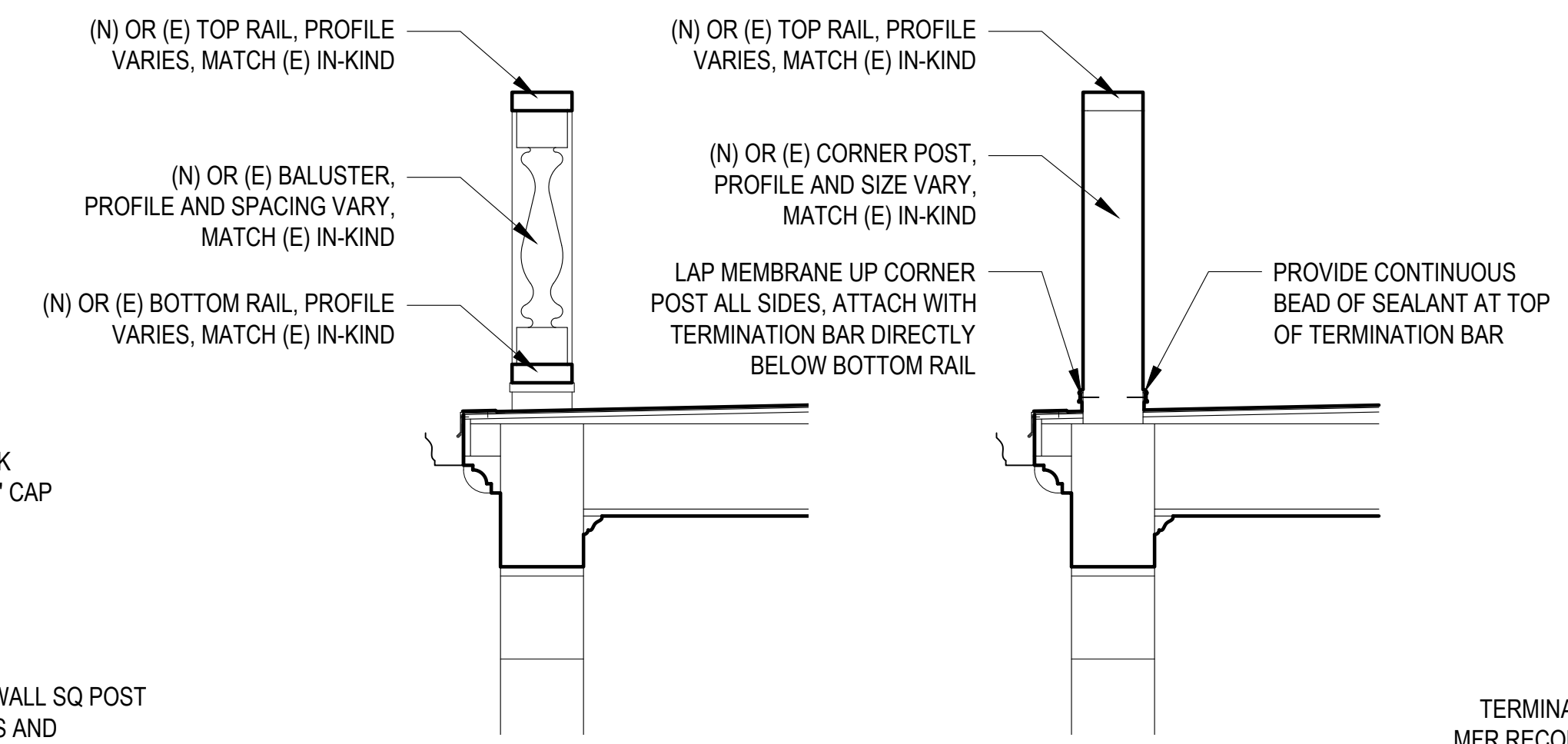
**6** TYPICAL PIPE HANDRAIL MOUNTING DETAILS  
A2.1 : A9.1 3/4" = 1'-0"



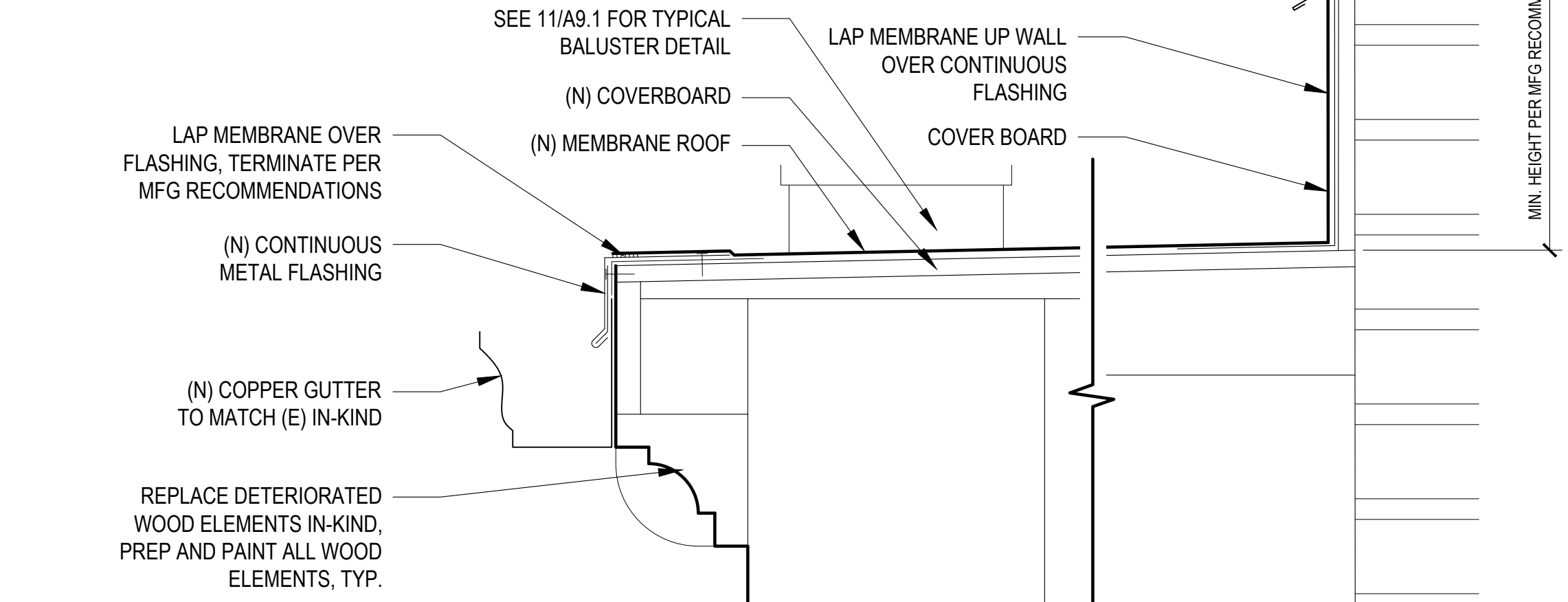
**13** TYPICAL WINDOW WELL SECTION DETAIL  
A2.1 : A9.1 1 1/2" = 1'-0"



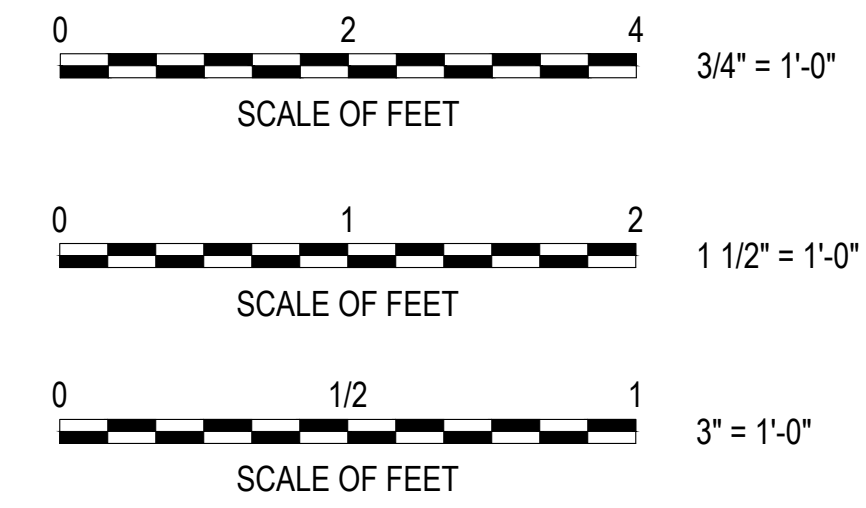
**14** TYPICAL GUARDRAIL DETAIL  
A9.1 : A9.1 3" = 1'-0"



**11** TYPICAL BALUSTER DETAIL  
A9.1 : A9.1 3/4" = 1'-0"



**15** TYPICAL MEMBRANE ROOF DETAIL  
A4.1 : A9.1 3" = 1'-0"



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# SPECIAL INSPECTIONS

The following Statement and Schedules of Inspections are those Special Inspections and Tests that shall be performed for this project. Special Inspectors shall reference these plans and IBC Chapter 17 for all special inspection requirements. The owner shall retain an "approved agency" per IBC 1703 to provide special inspections for this project. Special Inspectors shall be qualified persons per IBC 1704.2.1. Special inspection reports shall be provided on a weekly basis. Submit copies of all inspection reports to the Architect/Engineer and the Authority Having Jurisdiction for review. In addition to special inspection reports and tests, submit reports and certificates noted in IBC 1704.5 to the Authority Having Jurisdiction. Final special inspection reports will be required by each special inspection firm per IBC 1704.2.4.

### STATEMENT OF SPECIAL INSPECTIONS:

This statement of Special Inspections has been written with the understanding that the Building Official will:

- Review and approve the qualifications of the Special Inspectors
- Monitor the special inspection activity on the project site to assure that Special Inspectors are qualified and performing their duty as state within this statement.
- Review all Special Inspection Reports submitted to them by the Special Inspector
- Perform inspections as required by IBC Section 1703.3.

### The following Special Inspections are applicable to this project:

- Special Inspections for Standard Buildings (per IBC 1705.1) **REQUIRED**
- Special Inspections for Seismic Resistance (per IBC 1705.13) **NOT REQUIRED**
- Testing for Seismic Resistance (per IBC 1705.14) **NOT REQUIRED**
- Special Inspections for Wind Resistance (per IBC 1705.12) **NOT REQUIRED**

### SPECIAL INSPECTION OF SHOP FABRICATED GRAVITY LOAD-BEARING MEMBERS AND ASSEMBLIES:

Special Inspection of shop fabricated Gravity Load Bearing Members & Assemblies shall be verified by the Special Inspector as stated in Section 1704.2.5

### STRUCTURAL STEEL per IBC 1705.2.1

A qualified Special Inspector of an "approved agency" providing Quality Assurance (QA) Special Inspections for the project shall review and confirm the Fabricator and Erector's Quality Control (QC) procedures for completeness and adequacy relative to AISC 360-16 Chapter N, AISC 303-16 Code of Standard Practice, AWS D1.1-2015 Structural Welding Code and 2021 IBC code requirements for the fabricator's scope of work.

- o QA Agency providing Special Inspections shall provide personnel meeting the minimum qualification requirements for Inspection and Nondestructive Testing NDT per AISC 360 Section N4.
- o Verify Fabricator and Erector QC Program per AISC 360 Section N2.
- o Inspection of welds and bolts by both QC and QA personnel shall be per the Schedule of Special Inspections below. All provisions of AWS D1.1 Structural Welding Code for statically loaded structures shall apply.
- o Nondestructive Testing (NDT) of welds:
  - Non-Destructive Testing (NDT) of welded joints per AISC 360 N5.5
  - Risk Category for determination of extent of NDT per AISC 360 N5.5b is noted in the Design Criteria and Loads section of these General Requirements.
  - NDT performed shall be documented and reports shall identify the tested weld by piece mark and location of the piece.
  - For field work, the NDT report shall identify the tested weld by location in the structure, piece mark and location of the piece.
- o Additional Inspection tasks per AISC 360 Section N5.8.
- o Inspection for Composite Construction shall be done per AISC 360 Section N6.

**POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY:** shall comply with IBC Section 1703. Inspections shall be in accordance with the requirements set forth in the approved ICC Evaluation Report and as indicated by the design requirements specified on the drawings. Refer to the POST INSTALLED ANCHORS section of these notes for anchors that are the basis of the design. Special Inspector shall verify anchors are as specified in the POST INSTALLED ANCHORS section of these notes or as otherwise specified on the drawings. Substitutions require approval by the SER and require substantiating calculations and current 2021 IBC recognized ICC Evaluation Services (ES) Report. Special Inspector shall document in their Special Inspection Report compliance with each of the elements required within the applicable ICC Evaluation Services (ES) Report.

**PREFABRICATED CONSTRUCTION:** All prefabricated construction shall conform to IBC Section 1703.

### SCHEDULES OF SPECIAL INSPECTIONS:

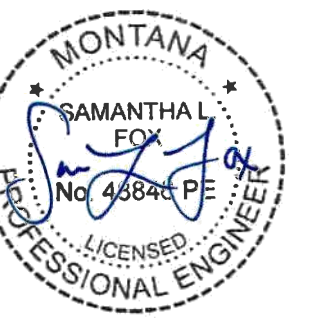
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. Inspection, reinforcement, including pre-stressing tendons, and verify placement.	-	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	-
4. Inspect anchors post-installed in hardened concrete members:				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	X	-	ACI 318: 17.8.2.4	-
b. Mechanical anchors and adhesive anchors not defined in 4.a	-	X	ACI 318: 17.8.2	-
5. Verify use of required design mix	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. Prior to concrete placement, fabricate specimens, for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques	X	-	ACI 318: 26.5	-
12. Inspect formwork for shape, location and dimensions of the concrete member being formed	-	X	ACI 318: 26.11.1.2 (b)	-

### MINIMUM REQUIREMENTS FOR INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION

INSPECTION TASKS	QC	QA	REFERENCED STANDARD
<b>INSPECTION TASKS PRIOR TO WELDING</b>			
1. Welder qualification records and continuity records	P	O	AISC 360 TABLE N5.4-1
2. Welding procedure specifications (WPSs) available	P	P	AISC 360 TABLE N5.4-1
3. Manufacturing certifications for welding consumables available	P	P	AISC 360 TABLE N5.4-1
4. Material identification (type/grade)	O	O	AISC 360 TABLE N5.4-1
5. Welder identification system	O	O	AISC 360 TABLE N5.4-1
6. Fit-up of groove welds (including joint geometry) <ul style="list-style-type: none"> <li>• Joint preparation</li> <li>• Dimensions (alignment, root opening, root face, bevel)</li> <li>• Cleanliness (condition of steel surfaces)</li> </ul>	O	O	AISC 360 TABLE N5.4-1
7. Fit-up of fillet welds <ul style="list-style-type: none"> <li>• Dimensions (alignment, gaps at root)</li> <li>• Cleanliness (condition of steel surfaces)</li> <li>• Tacking (tack weld quality and location)</li> <li>• Baking type and fit (if applicable)</li> </ul>	O	O	AISC 360 TABLE N5.4-1
8. Check welding equipment	O	-	AISC 360 TABLE N5.4-1
<b>INSPECTION TASKS DURING WELDING</b>			
1. Use of qualified welders	O	O	AISC 360 TABLE N5.4-2
2. Control and handling of welding consumables <ul style="list-style-type: none"> <li>• Packaging</li> <li>• Exposure control</li> </ul>	O	O	AISC 360 TABLE N5.4-2
3. No welding over cracked tack welds	O	O	AISC 360 TABLE N5.4-2
4. Environmental conditions <ul style="list-style-type: none"> <li>• Wind speed within limits</li> <li>• Precipitation and temperature</li> </ul>	O	O	AISC 360 TABLE N5.4-2
5. WPS followed <ul style="list-style-type: none"> <li>• Settings on welding equipment</li> <li>• Travel speed</li> <li>• Selected welding materials</li> <li>• Shielding gas type/flowrate</li> <li>• Preheat applied</li> <li>• Interpass temperature maintained (min/max)</li> <li>• Proper position (F, V, H, OH)</li> </ul>	O	O	AISC 360 TABLE N5.4-2
6. Welding techniques <ul style="list-style-type: none"> <li>• Interpass and final cleaning</li> <li>• Each pass within profile limitations</li> <li>• Each pass meets quality requirements</li> </ul>	O	O	AISC 360 TABLE N5.4-2
<b>INSPECTION TASKS AFTER WELDING</b>			
1. Welds cleaned	O	O	AISC 360 TABLE N5.4-3
2. Size, length, and locations of welds	P	P	AISC 360 TABLE N5.4-3
3. Welds meet visual acceptance criteria <ul style="list-style-type: none"> <li>• Crack prohibition</li> <li>• Weld/base-metal fusion</li> <li>• Crater cross section</li> <li>• Weld profiles</li> <li>• Weld size</li> <li>• Undercut</li> <li>• Porosity</li> </ul>	P	P	AISC 360 TABLE N5.4-3
4. Arc strikes	P	P	AISC 360 TABLE N5.4-3
5. k-area	P	P	AISC 360 TABLE N5.4-3
6. Weld access holes in rolled heavy shapes and built-up heavy shapes	P	P	AISC 360 TABLE N5.4-3
7. Backing removed and weld tabs removed (if required)	P	P	AISC 360 TABLE N5.4-3
8. Repair activities	P	P	AISC 360 TABLE N5.4-3
9. Document acceptance or rejection of welded joint or member	P	P	AISC 360 TABLE N5.4-3
10. No prohibited welds have been added without the approval of the EOR	P	P	AISC 360 TABLE N5.4-3

INSPECTION TASKS PRIOR TO BOLTING			
1. Manufacturer's certifications available for fastener materials	O	P	AISC 360 TABLE N5.6-1
2. Fasteners marked in accordance with ASTM requirements	O	O	AISC 360 TABLE N5.6-1
3. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O	AISC 360 TABLE N5.6-1
4. Correct bolting procedure selected for joint detail	O	O	AISC 360 TABLE N5.6-1
5. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	O	AISC 360 TABLE N5.6-1
6. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.	P	O	AISC 360 TABLE N5.6-1
7. Proper storage provided for bolts, nuts, washers and other fasteners components	O	O	AISC 360 TABLE N5.6-1
<b>INSPECTION TASKS DURING BOLTING</b>			
1. Fastener assemblies, of suitable condition, placed in all holes and washers are positioned as required	O	O	AISC 360 TABLE N5.6-2
2. Joint brought to the snug-tight condition prior to the pre-tensioning operation	O	O	AISC 360 TABLE N5.6-2
3. Fastener component not turned by the wrench prevented from rotating	O	O	AISC 360 TABLE N5.6-2
4. Fasteners are pre-tensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	O	O	AISC 360-10 TABLE N5.6-2
<b>INSPECTION TASKS AFTER BOLTING</b>			
1. Document acceptance or rejection of bolted connections	P	P	AISC 360 TABLE N5.6-3
<b>INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT</b>			
1. Placement and installation of steel deck	P	P	AISC 360 TABLE N6.1
2. Placement and installation of steel headed stud anchors	P	P	AISC 360 TABLE N6.1
3. Document acceptance or rejection of steel elements	P	P	AISC 360 TABLE N6.1

O - Observe these items on a random basis. Operations need not be delayed pending these inspections  
P - Perform these tasks for each welded joint or member, each bolted connection, or each steel element



STRUCTURAL - SPECIAL INSPECTIONS  
 sheet  
 project  
 owner  
**ATKINSON QUADRANGLE EXTERIOR REPAIRS**  
 MONTANA STATE UNIVERSITY

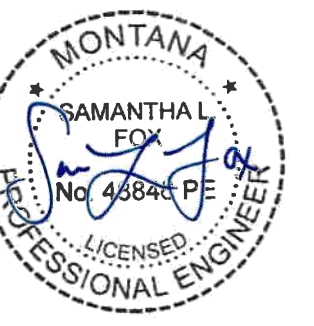
project # **23123.00**

revision \_\_\_\_\_ date \_\_\_\_\_

phase  
DESIGN DEVELOPMENT



issue date  
**01.24.2025**  
**S1.1**



sheet STRUCTURAL - QUAD AB - FLOOR PLAN  
 project ATKINSON QUADRANGLE EXTERIOR REPAIRS  
 owner MONTANA STATE UNIVERSITY

project # 23123.00

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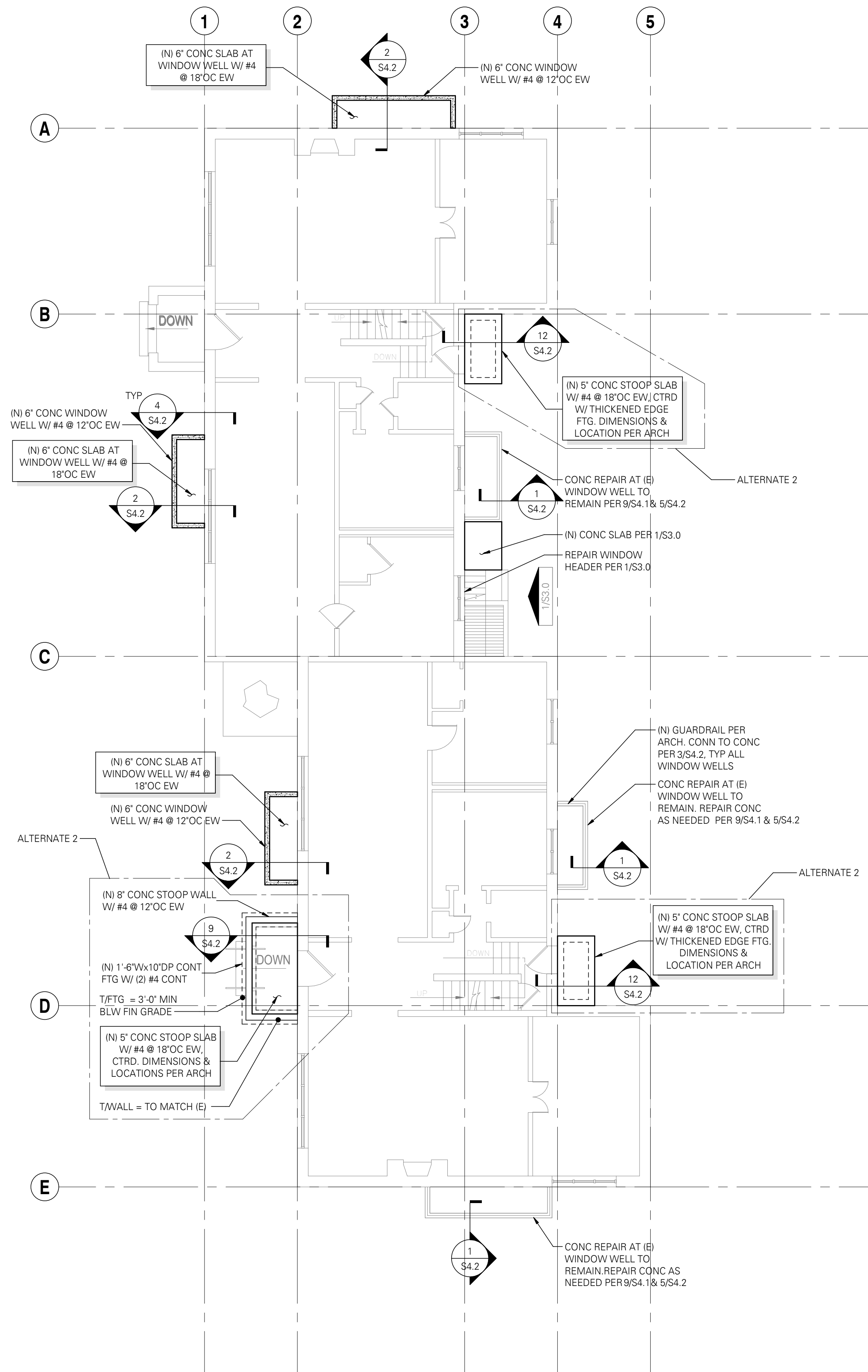
phase DESIGN DEVELOPMENT



issue date 01.24.2025  
**S2.1**

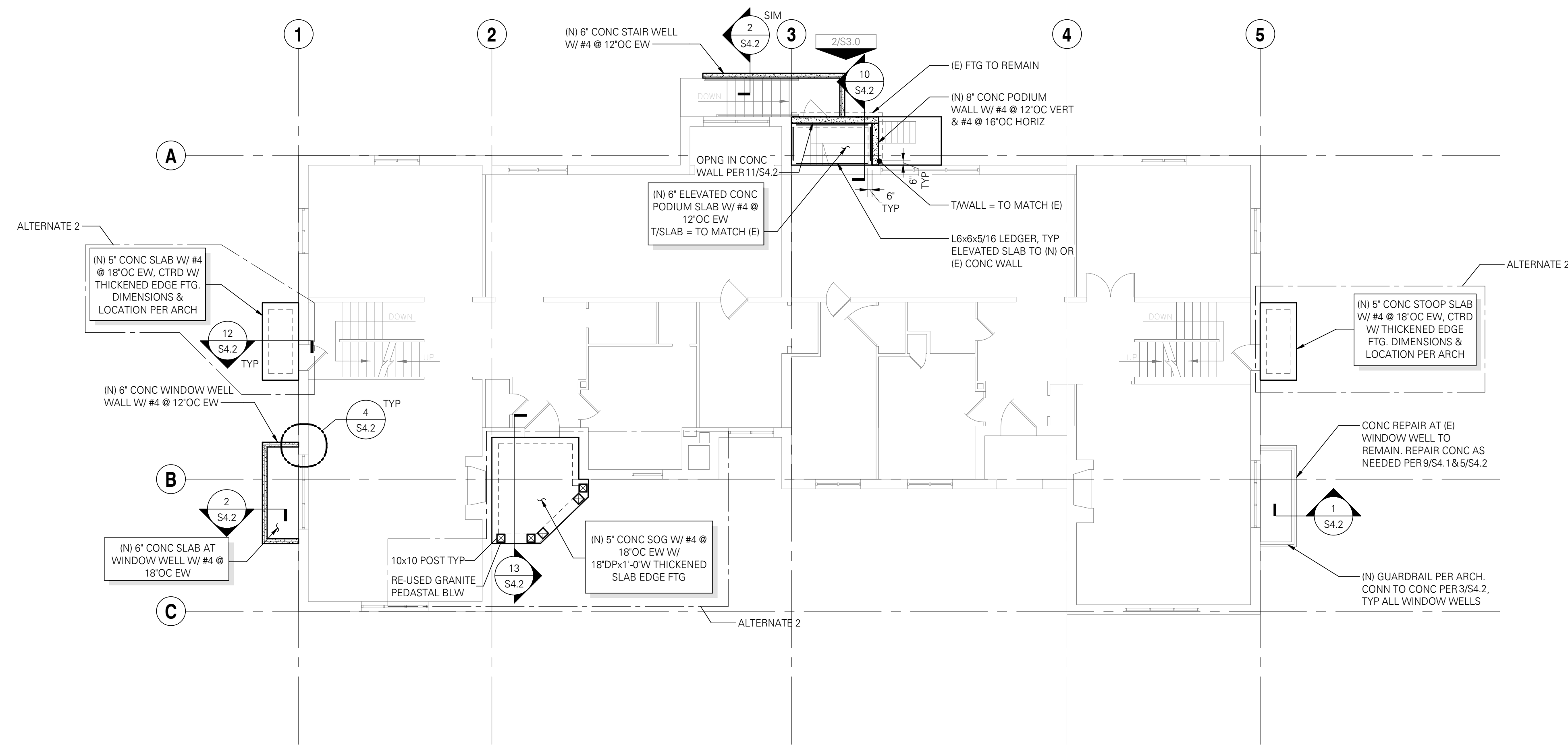
**PLAN NOTES:**

1. STRUCTURAL GENERAL NOTES AND INSPECTION REQUIREMENTS PER S1.0.
2. BUILDINGS WILL REMAIN OCCUPIED DURING CONSTRUCTION. CONTRACTOR IS REQUIRED TO COORDINATE CLOSURE OF FIRE ESCAPES WITH OWNER AND CAMPUS FIRE MARSHAL TO ENSURE LIFE SAFETY OF BUILDING OCCUPANTS IS MAINTAINED DURING CONSTRUCTION.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO WORK. DO NOT SCALE FROM DRAWINGS.
4. CONTRACTOR IS RESPONSIBLE FOR SHORING OF EXISTING STRUCTURE DURING REPAIRS.
5. CONTACT DCI ENGINEERS IF CONDITIONS VARY FROM THOSE SHOWN ON PLAN.
6. TYPICAL REPAIR DETAILS OCCUR AT ALL (3) STAIR LOCATIONS, AND AT ALL INSTANCES.
7. QUAD SPECIFIC DETAILS ARE UNIQUE TO INDIVIDUAL STAIR LOCATIONS. REFER TO STAIR PROFILE FOR LOCATION OF REPAIR.
8. ALL STAIRS TO BE CLEANED OF SURFACE RUST, AND COATED WITH CORROSION RESISTANT PAINT. PROTECT ADJACENT SURFACES DURING WORK. COORDINATE WITH OWNER. COORDINATE PRODUCT SELECTION AND PRODUCT FINISH WITH OWNER AND ARCHITECT.
9. PROTECT ALL ADJACENT SURFACES DURING WORK.
10. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL. SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.
11. THE FOLLOWING ABBREVIATIONS ARE USED:  
 (E) - EXISTING  
 (N) - NEW  
 (V) - VERIFY



**QUAD AB - FLOOR PLAN**

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

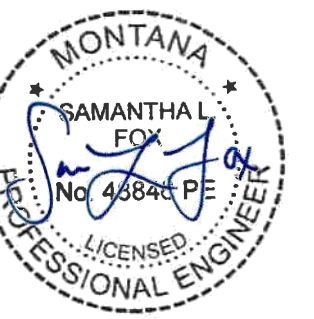


**QUAD CD - FLOOR PLAN**

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

**PLAN NOTES:**

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 (V) - VERIFY



sheet **STRUCTURAL - QUAD CD - FLOOR PLAN**  
 project **ATKINSON QUADRANGLE EXTERIOR REPAIRS**  
 owner **MONTANA STATE UNIVERSITY**

project # **23123.00**

revision \_\_\_\_\_ date \_\_\_\_\_

phase **DESIGN DEVELOPMENT**

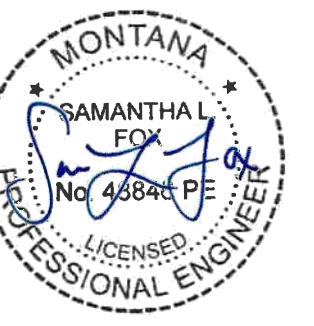


issue date

**01.24.2025**

**S2.2**





sheet STRUCTURAL - QUAD EF - FLOOR PLAN  
 project ATKINSON QUADRANGLE EXTERIOR REPAIRS  
 owner MONTANA STATE UNIVERSITY

project # 23123.00

revision date

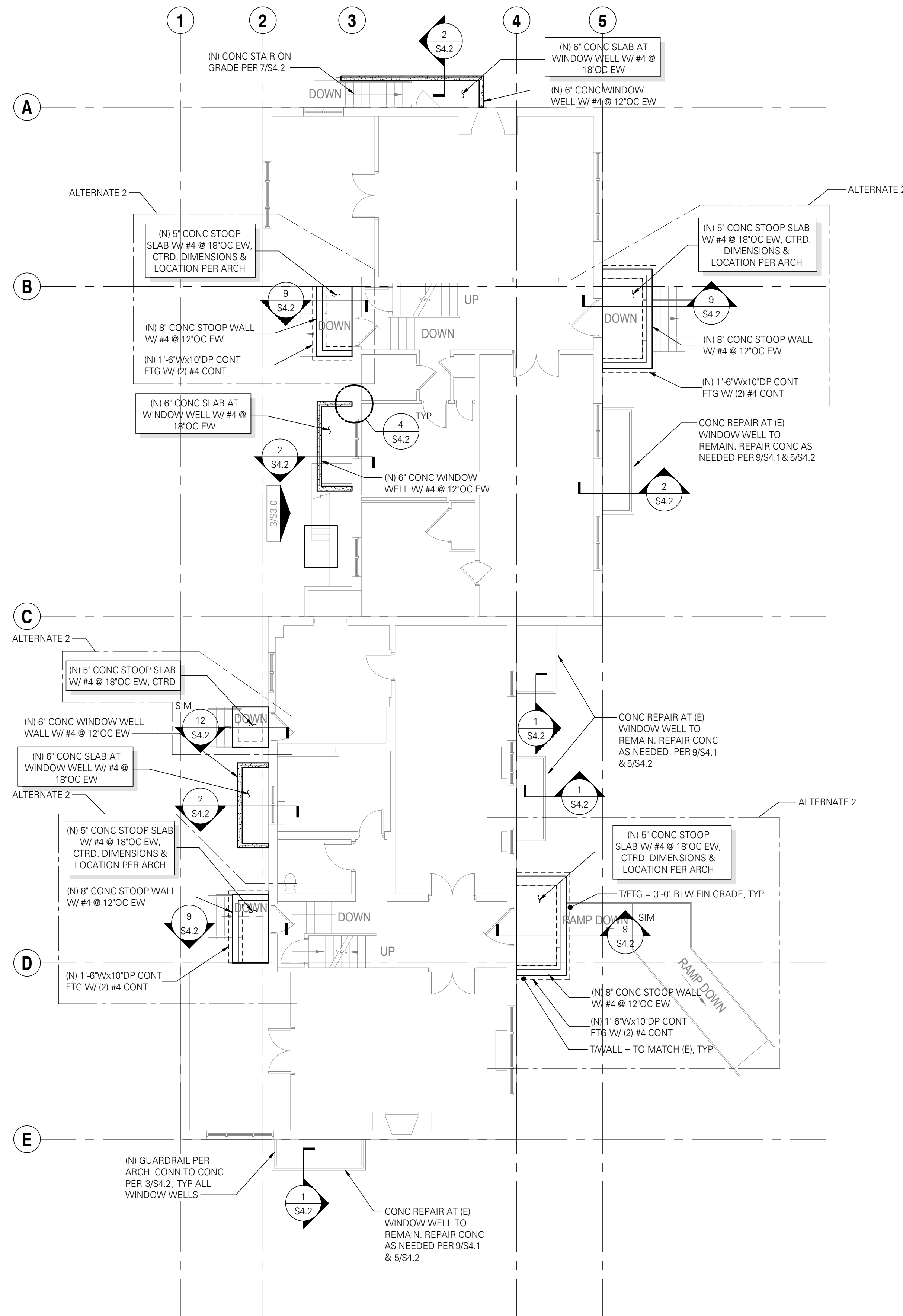
phase DESIGN DEVELOPMENT



issue date  
01.24.2025  
**S2.3**

**PLAN NOTES:**

- STRUCTURAL GENERAL NOTES AND INSPECTION REQUIREMENTS PER S1.0.
- BUILDINGS WILL REMAIN OCCUPIED DURING CONSTRUCTION. CONTRACTOR IS REQUIRED TO COORDINATE CLOSURE OF FIRE ESCAPES WITH OWNER AND CAMPUS FIRE MARSHAL TO ENSURE LIFE SAFETY OF BUILDING OCCUPANTS IS MAINTAINED DURING CONSTRUCTION.
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**QUAD EF - FLOOR PLAN**

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



**1 QUAD A STAIR PROFILE**  
SCALE: 1" = 1'-0"



**2 QUAD C STAIR PROFILE**  
SCALE: 1" = 1'-0"



**3 QUAD E STAIR PROFILE**  
SCALE: 1" = 1'-0"

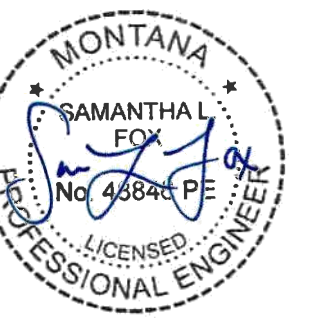
**REPAIR KEY**

TYPICAL DETAIL - APPLIES TO ALL QUADS:

- 1 HANDRAIL CONNECTION RETROFIT - DETAIL 1/S4.1
  - 2 KNEE BRACE CONNECTION RETROFIT - DETAIL 2/S4.1
  - 3 (N) CONCRETE PIER FDN BELOW EA STRINGER - DETAIL 7/S4.1. REMOVE (E) CONC PAD AS REQ'D
- QUAD SPECIFIC DETAILS:
- 4 (N) WINDOW HEAD (QUAD A) - DETAIL 4/S4.1
  - 5 CORRODED STEEL REPAIR (QUAD C) - DETAIL 5/S4.1
  - 6 (E) CONCRETE WALL TO BE REPLACED (QUAD C) - PER PLAN
  - 7 (E) CONCRETE WINDOW WELL TO BE REPAIRED - PER PLAN
  - 8 (E) CONCRETE WINDOW WELL TO BE REPLACED - PER PLAN

**PLAN NOTES:**

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Missoula, Montana 59801  
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sheet **STRUCTURAL - STAIR PROFILES**  
project **ATKINSON QUADRANGLE EXTERIOR REPAIRS**  
owner **MONTANA STATE UNIVERSITY**

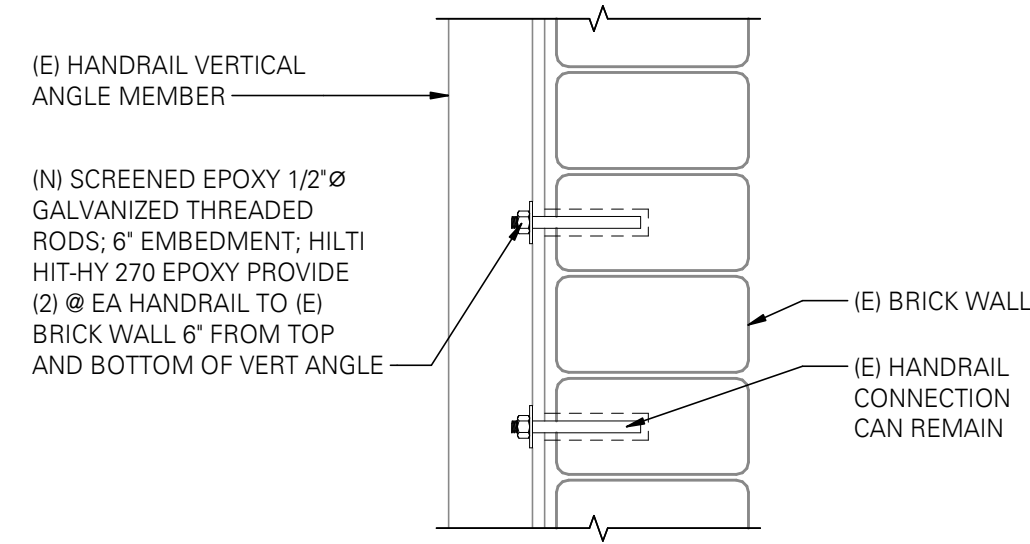
project # **23123.00**

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phase  
DESIGN DEVELOPMENT

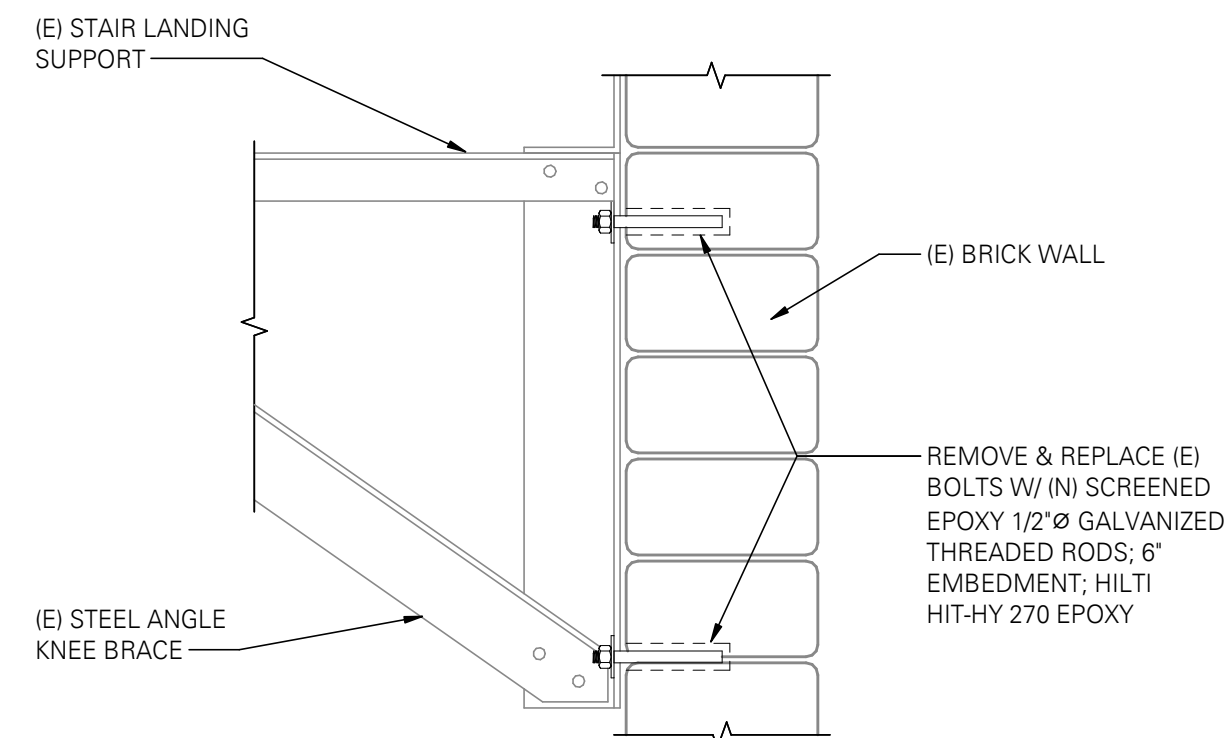


issue date  
**01.24.2025**  
**S3.0**



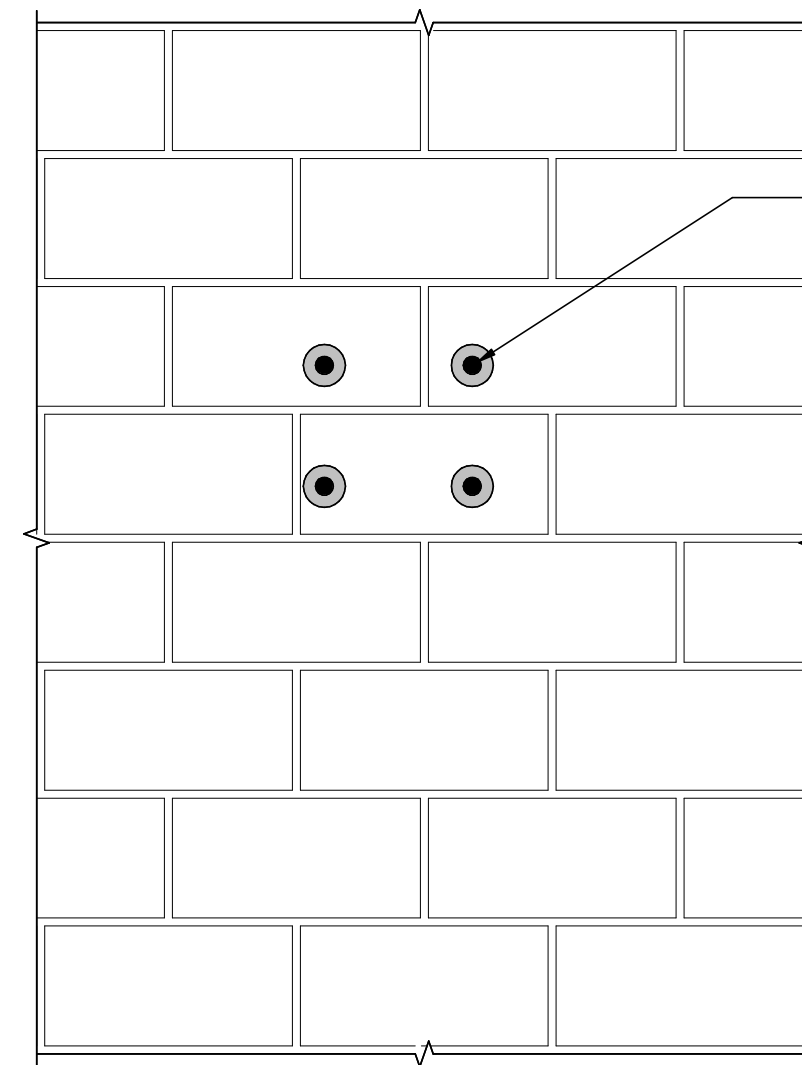
**NOTE:**  
 IF EXISTING BOLT HOLES ARE INTO UNSOUND MATERIAL, PATCH HOLES PER 3/52.1 AND DRILL NEW HOLES IN NEXT SOUND BRICK.

**1 HANDRAIL CONNECTION**  
 SCALE: 1 1/2" = 1'-0"



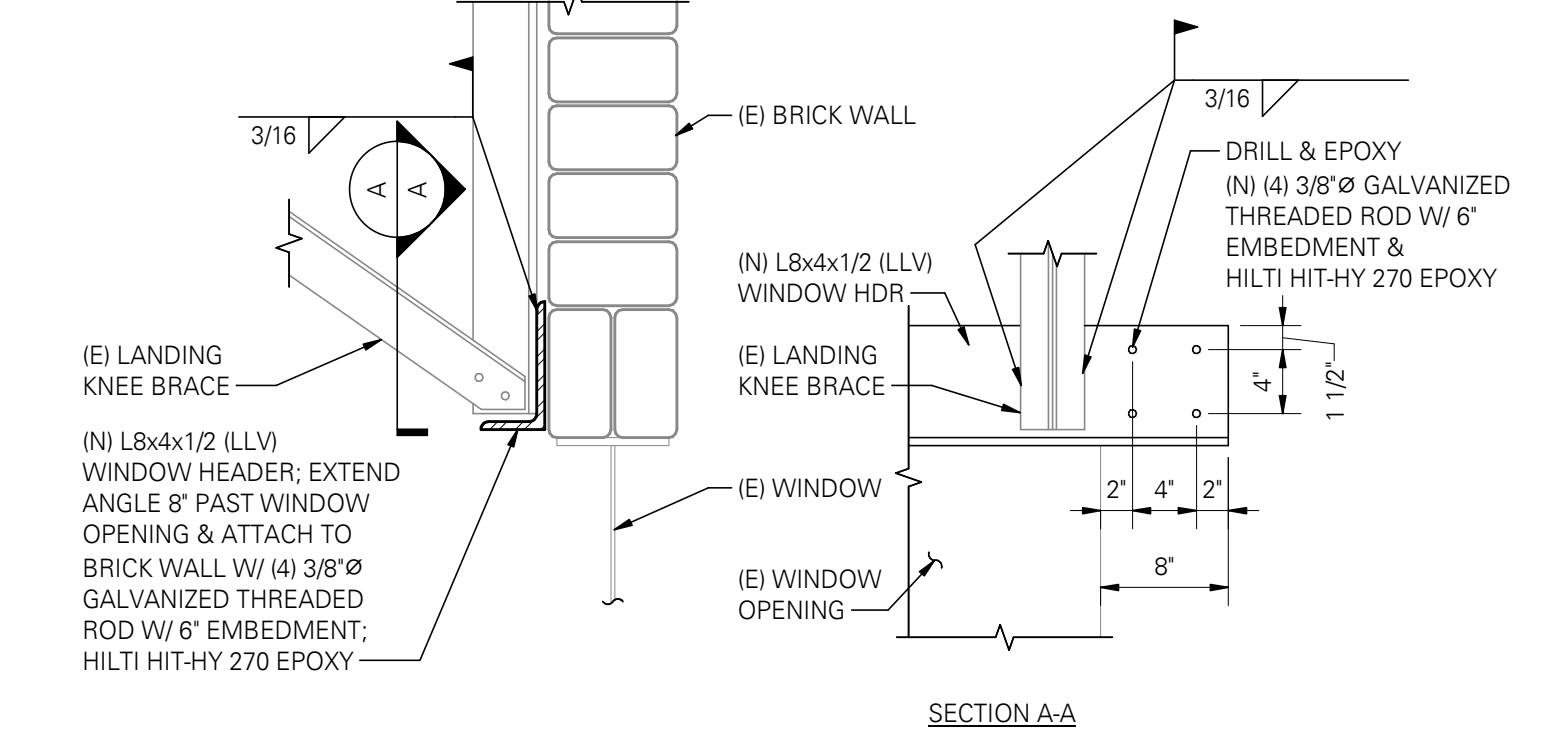
**NOTE:**  
 IF EXISTING BOLT HOLES ARE INTO UNSOUND MATERIAL, PATCH HOLES PER 3/52.1 AND DRILL NEW HOLES IN NEXT SOUND BRICK.

**2 STAIR LANDING KNEE BRACE CONNECTION**  
 SCALE: 1 1/2" = 1'-0"

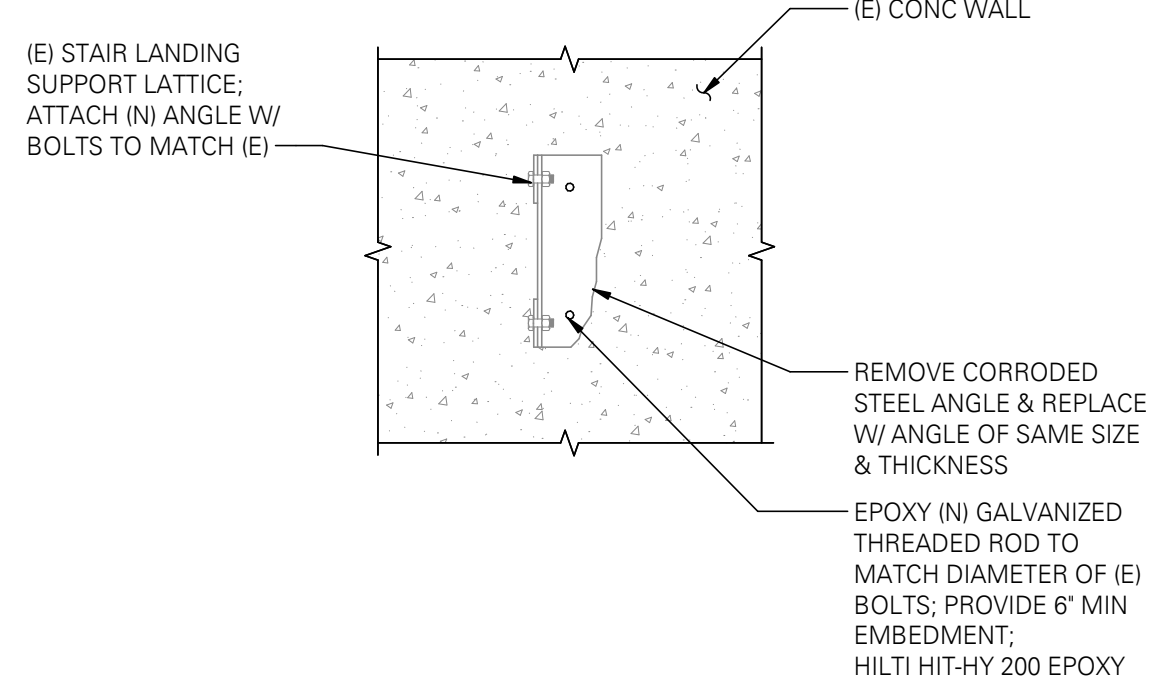


(1) CLEAN & REMOVE ALL UNSOUND MATERIAL AROUND HOLES(S).  
 (2) PACK HOLES W/ BRICK MORTAR AND SMOOTH TO FACE OF WALL.

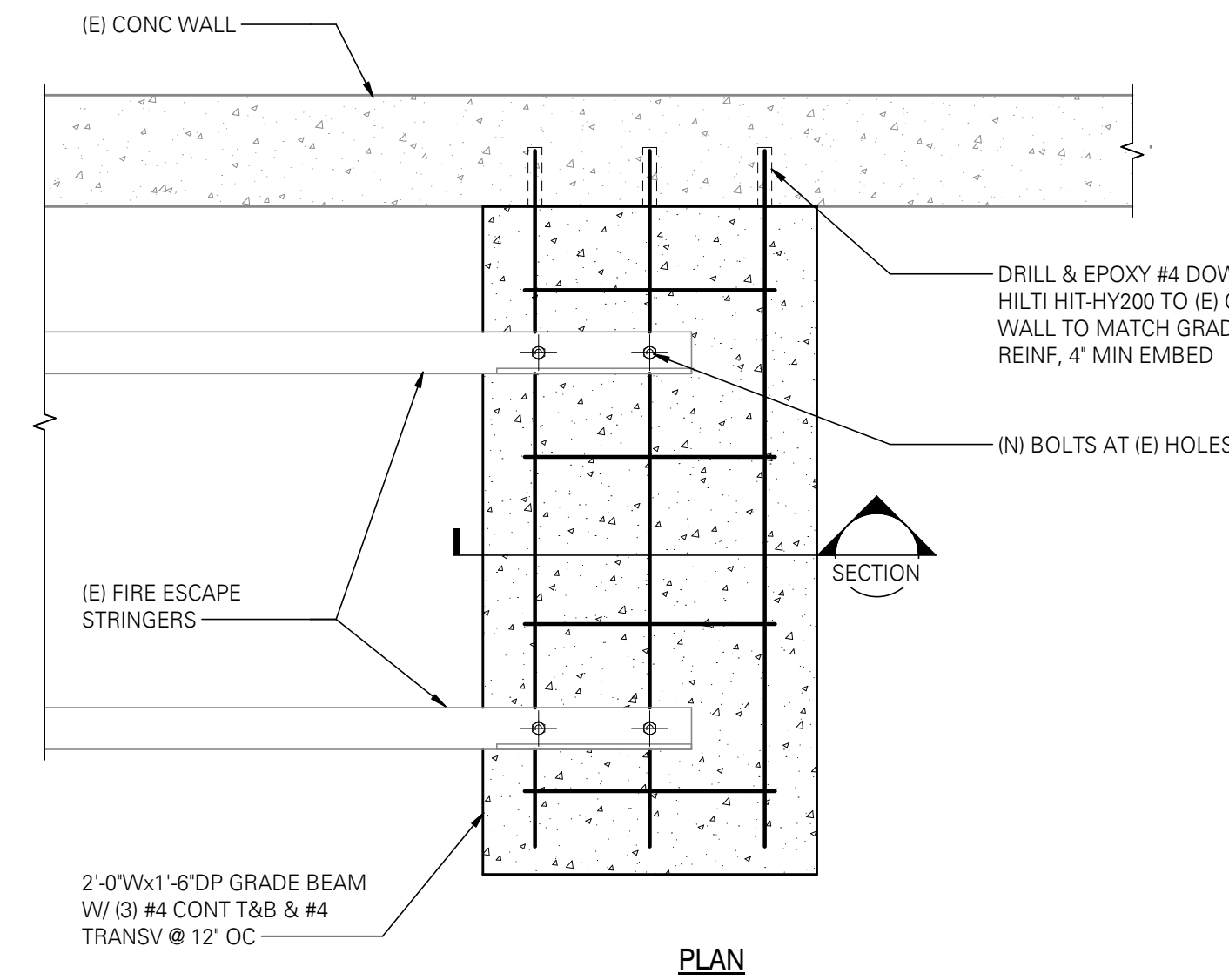
**3 EXISTING BRICK HOLE REPAIR**  
 SCALE: 1" = 1'-0"



**4 WINDOW HDR REPAIR**  
 SCALE: 1" = 1'-0"

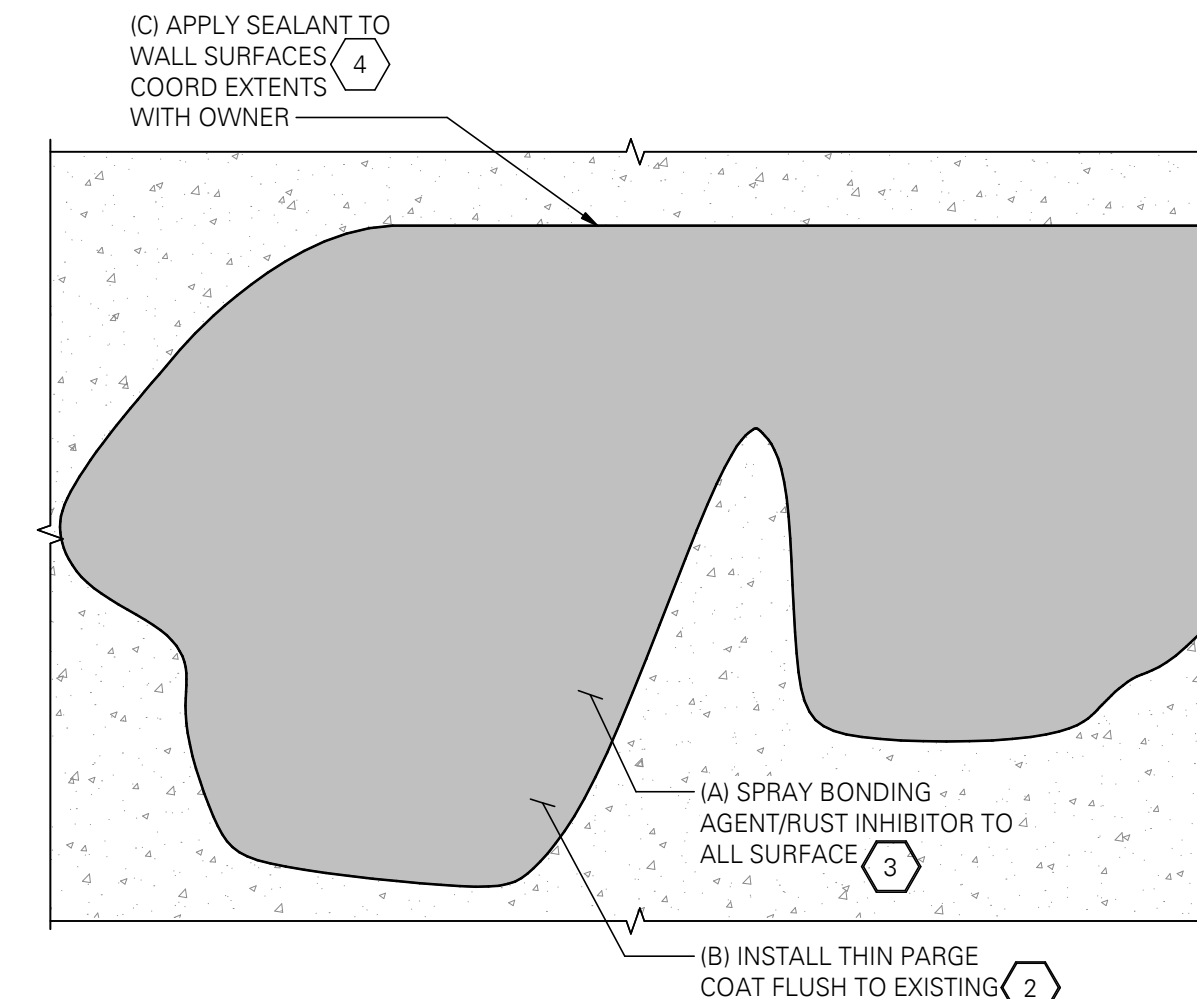
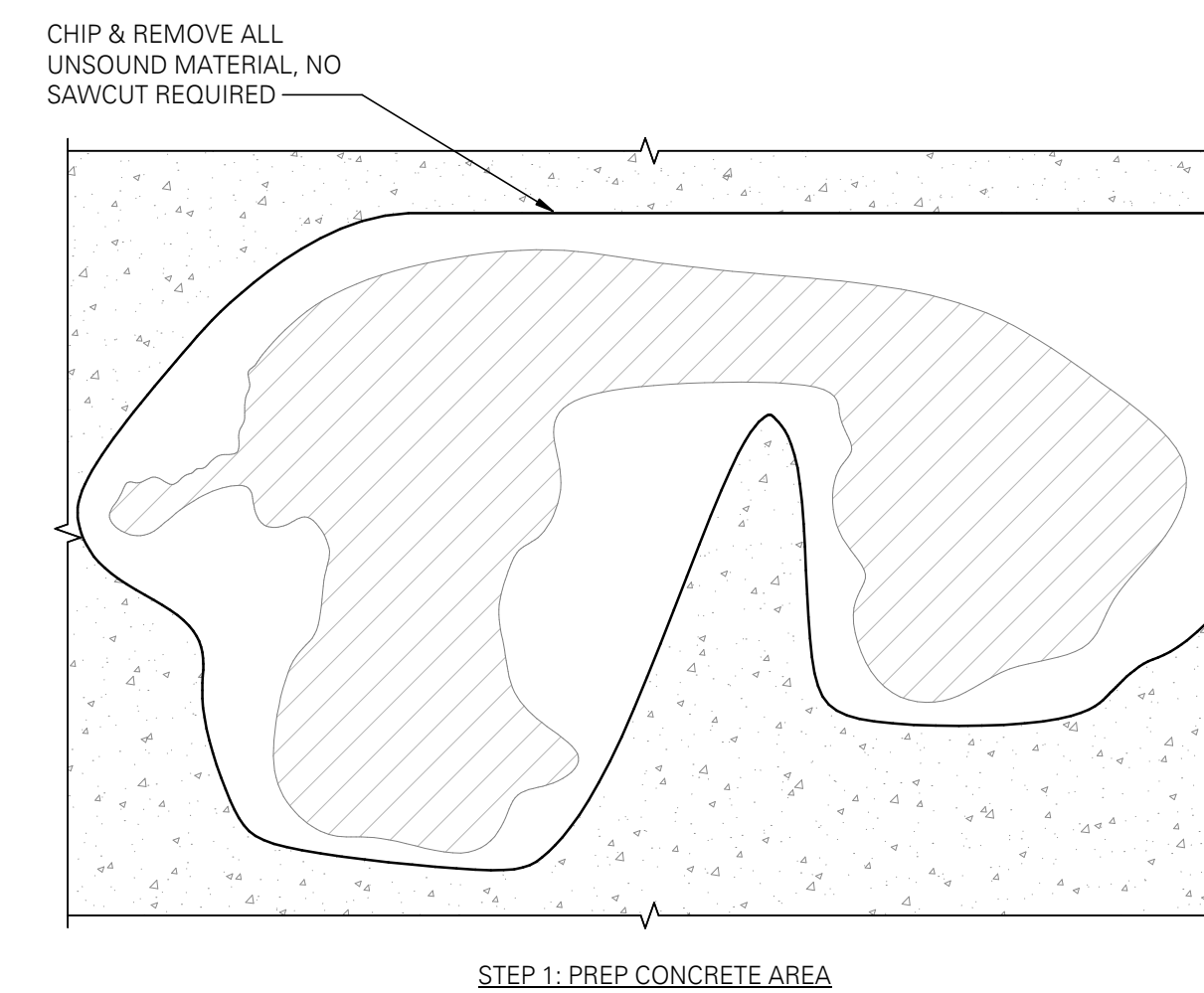
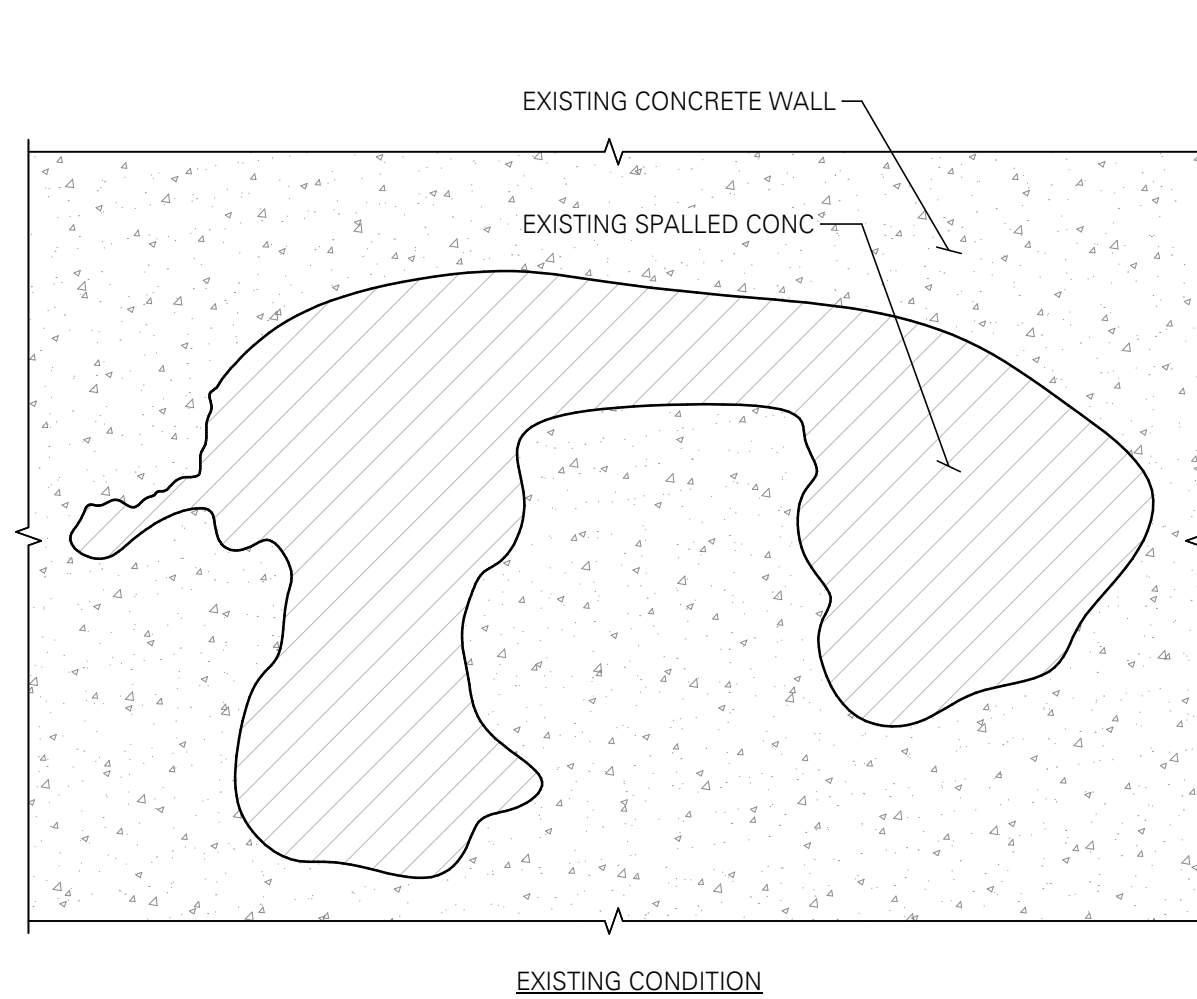
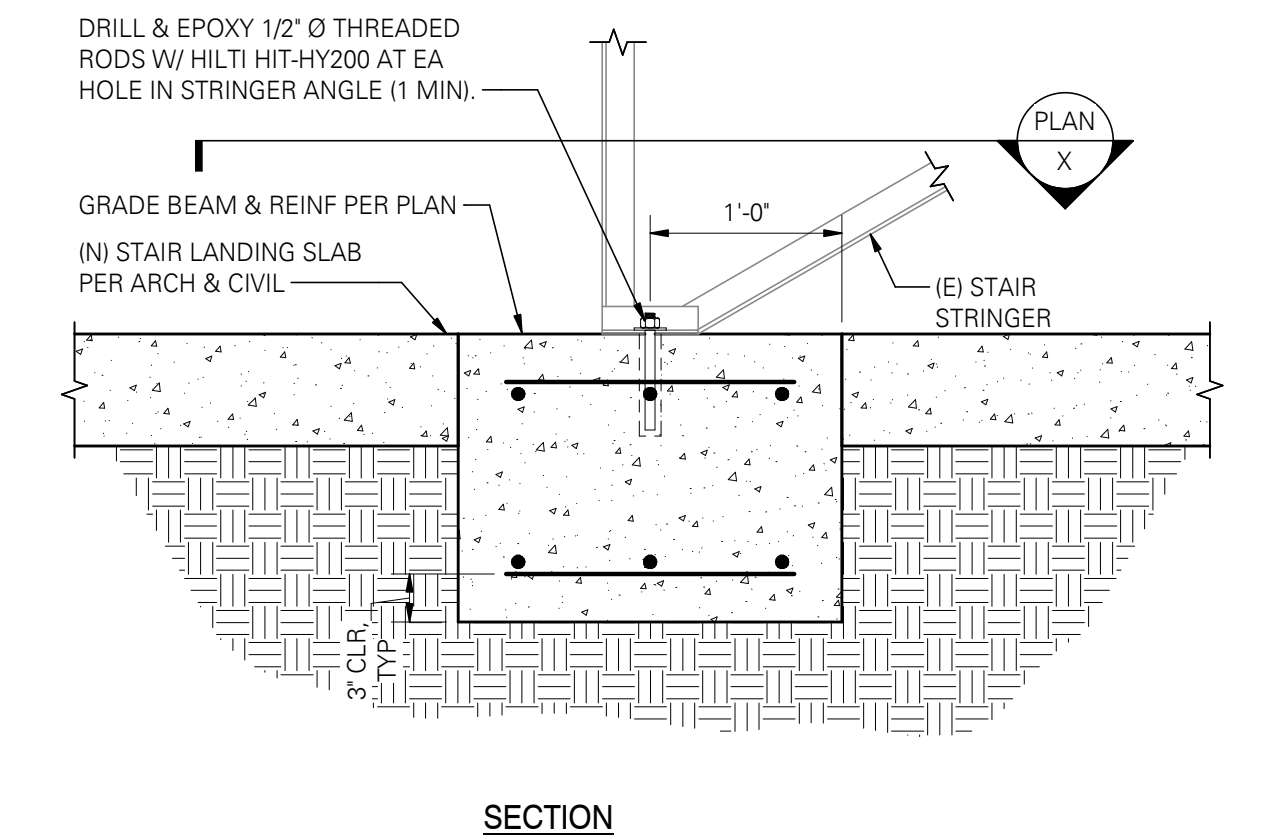


**5 CORRODED STEEL REPLACEMENT**  
 SCALE: 1" = 1'-0"



**NOTE:**  
 1. LOCATE ALL UTILITIES PRIOR TO EXCAVATION. COORDINATE W/ OWNER.  
 2. PROTECT EXISTING STRINGERS TO REMAIN DURING EXCAVATION AND CONCRETE POUR.

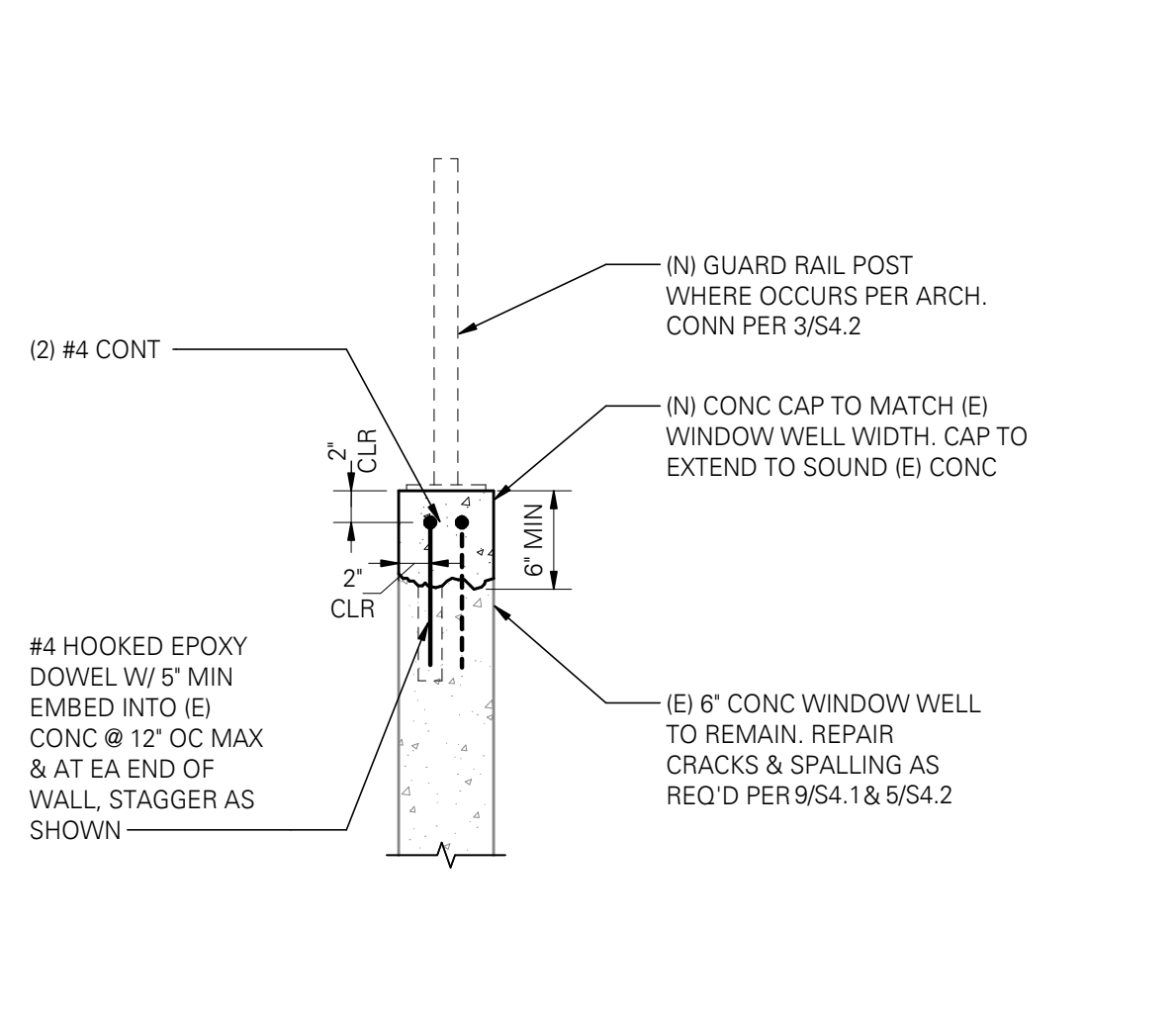
**7 CONCRETE GRADE BEAM FOUNDATION**  
 SCALE: 1" = 1'-0"



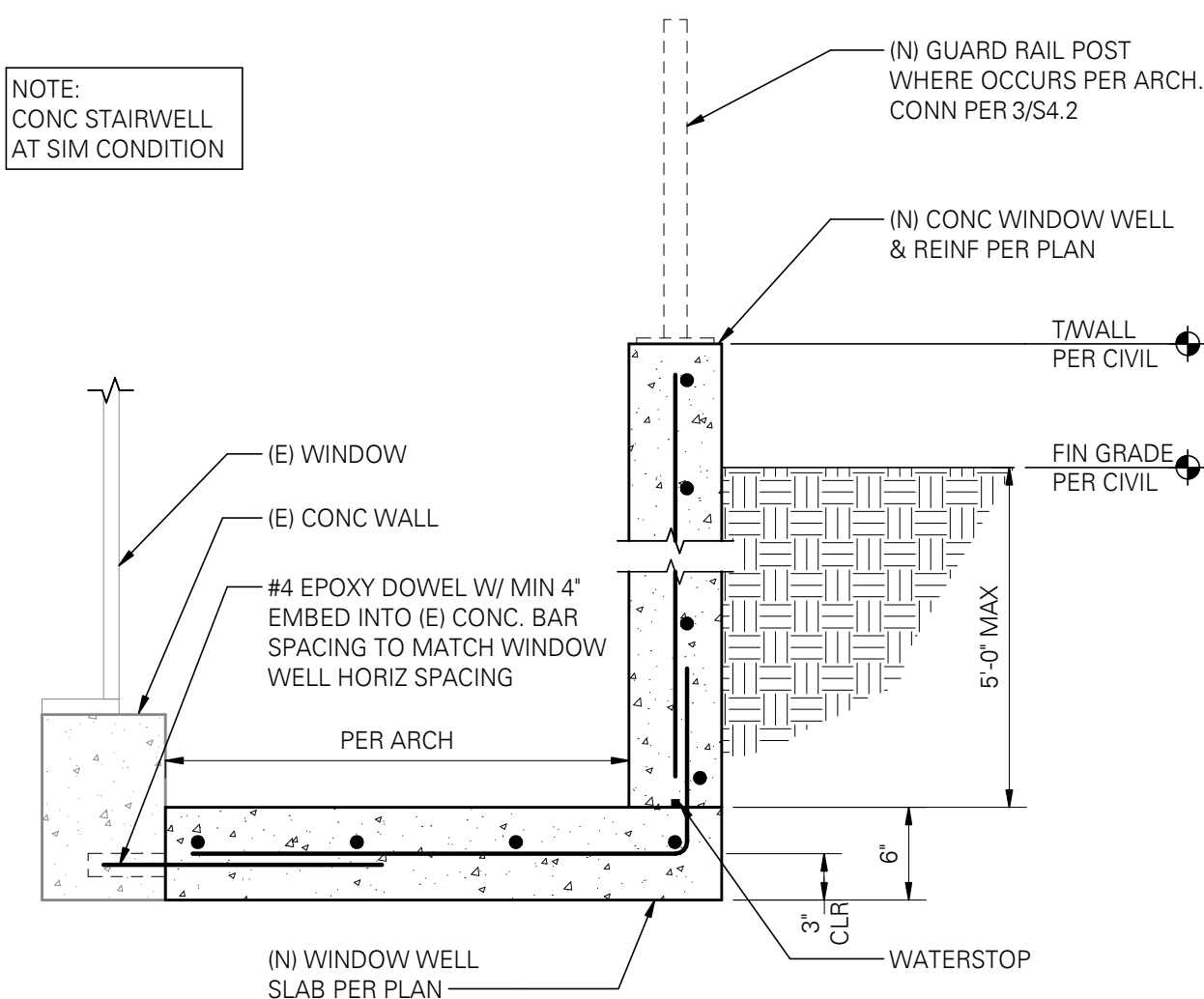
- PRODUCT GUIDE:**
- 1 EUCOPATCH - FAST-SETTING PATCHING AND REPAIR MATERIAL
  - 2 EUCOCRETE - FLOWABLE MEDIUM DEPTH PATCH MATERIAL
  - 3 DURAL PREP AC - BONDING AGENT & ANTI-CORROSION COATING
  - 4 TAMOSEAL - FINISH COAT TO BE APPLIED TO EXTERIOR CONCRETE SURFACES

**NOTE:**  
 ALL PRODUCTS NOTED ARE MANUFACTURED BY THE EUCLID CHEMICAL COMPANY. CONTRACTOR TO SUBMIT DATA SHEETS FOR ANY ALTERNATE PRODUCT OR MANUFACTURER. WRITTEN APPROVAL REQUIRED PRIOR TO BIDDING FOR ANY SUBSTITUTION

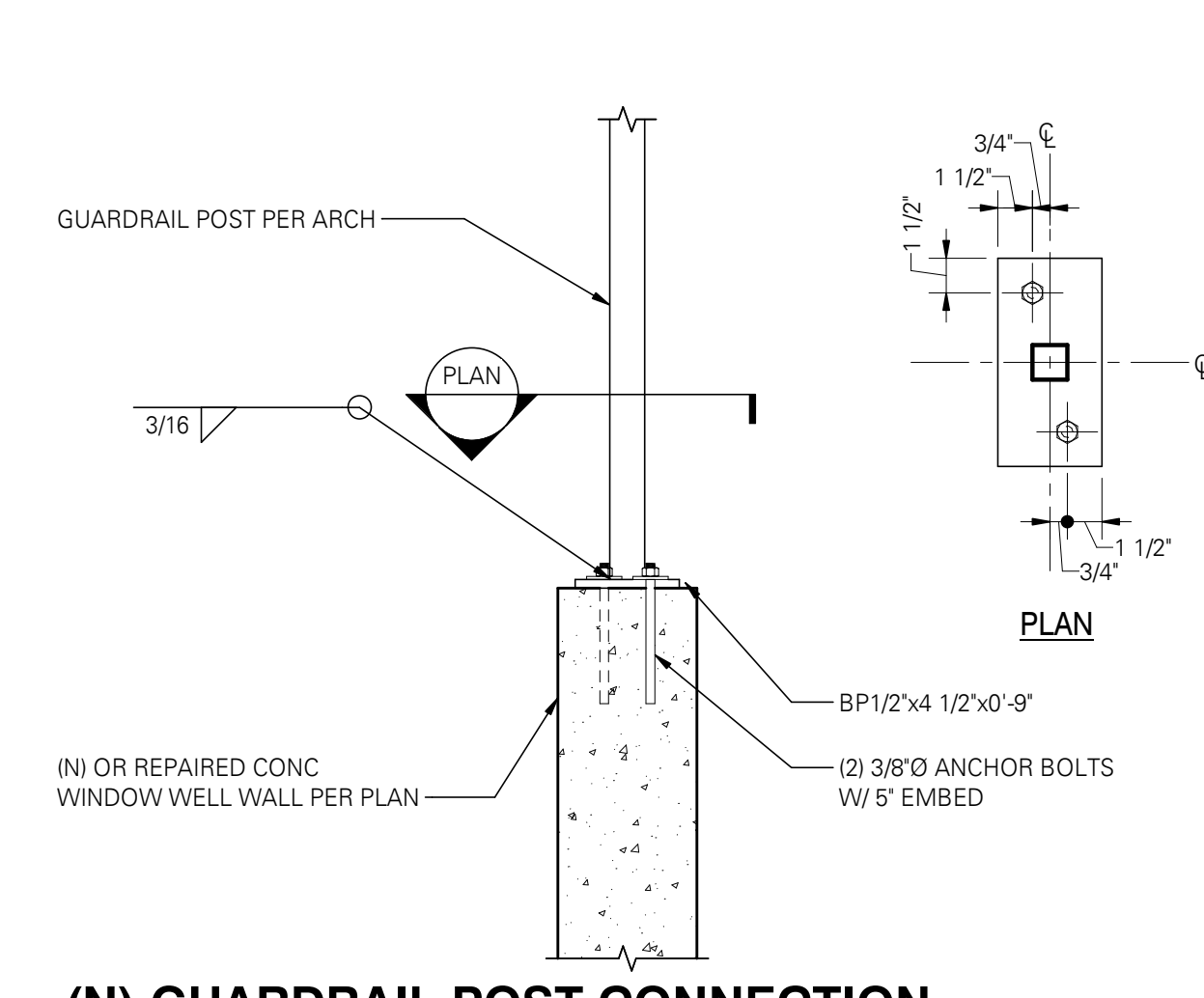
**9 SPALLING CONCRETE REPAIR**  
 SCALE: 3/4" = 1'-0"



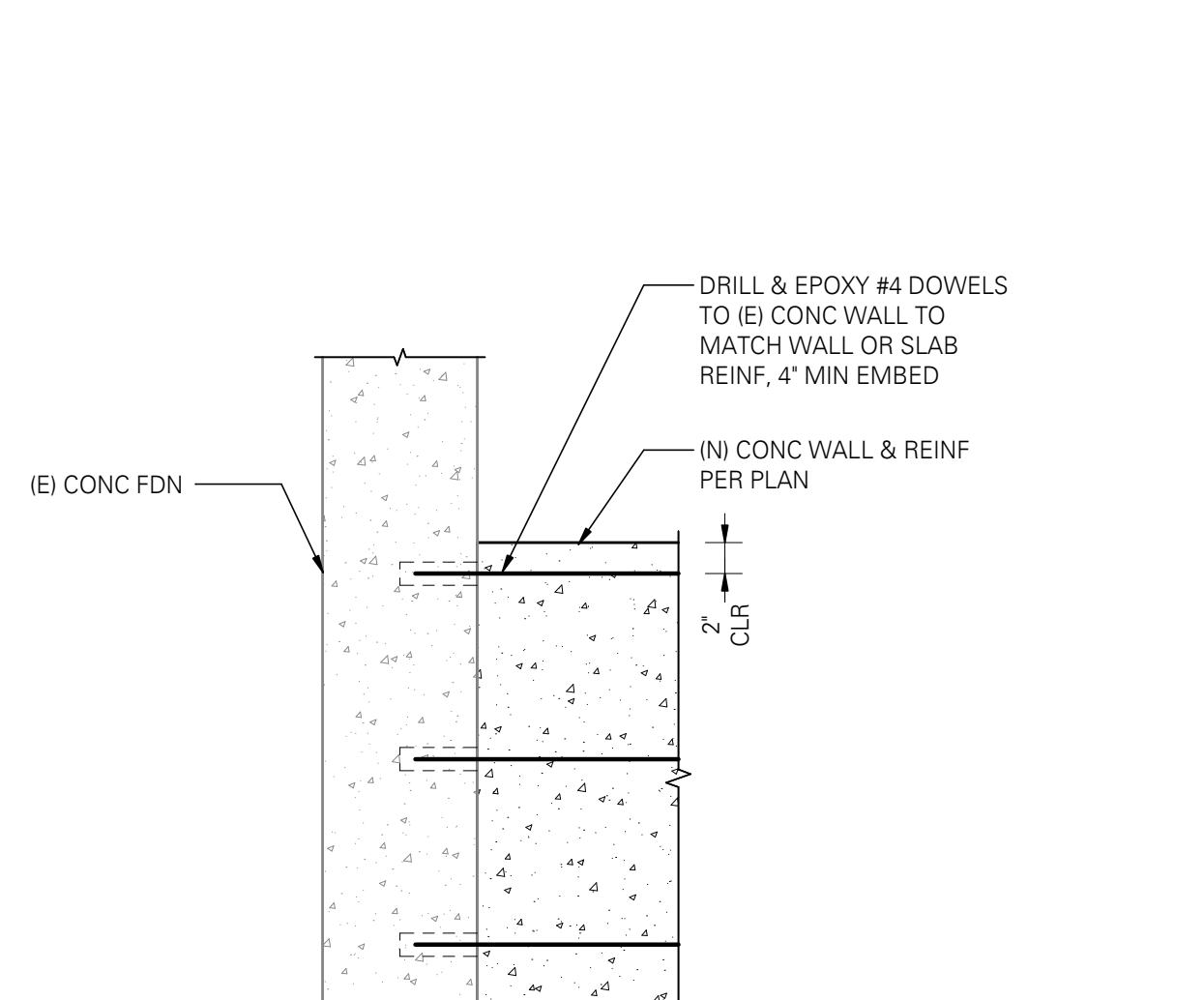
**1 (N) CONCRETE CAP ON (E) WINDOW WELL**  
SCALE: 1" = 1'-0"



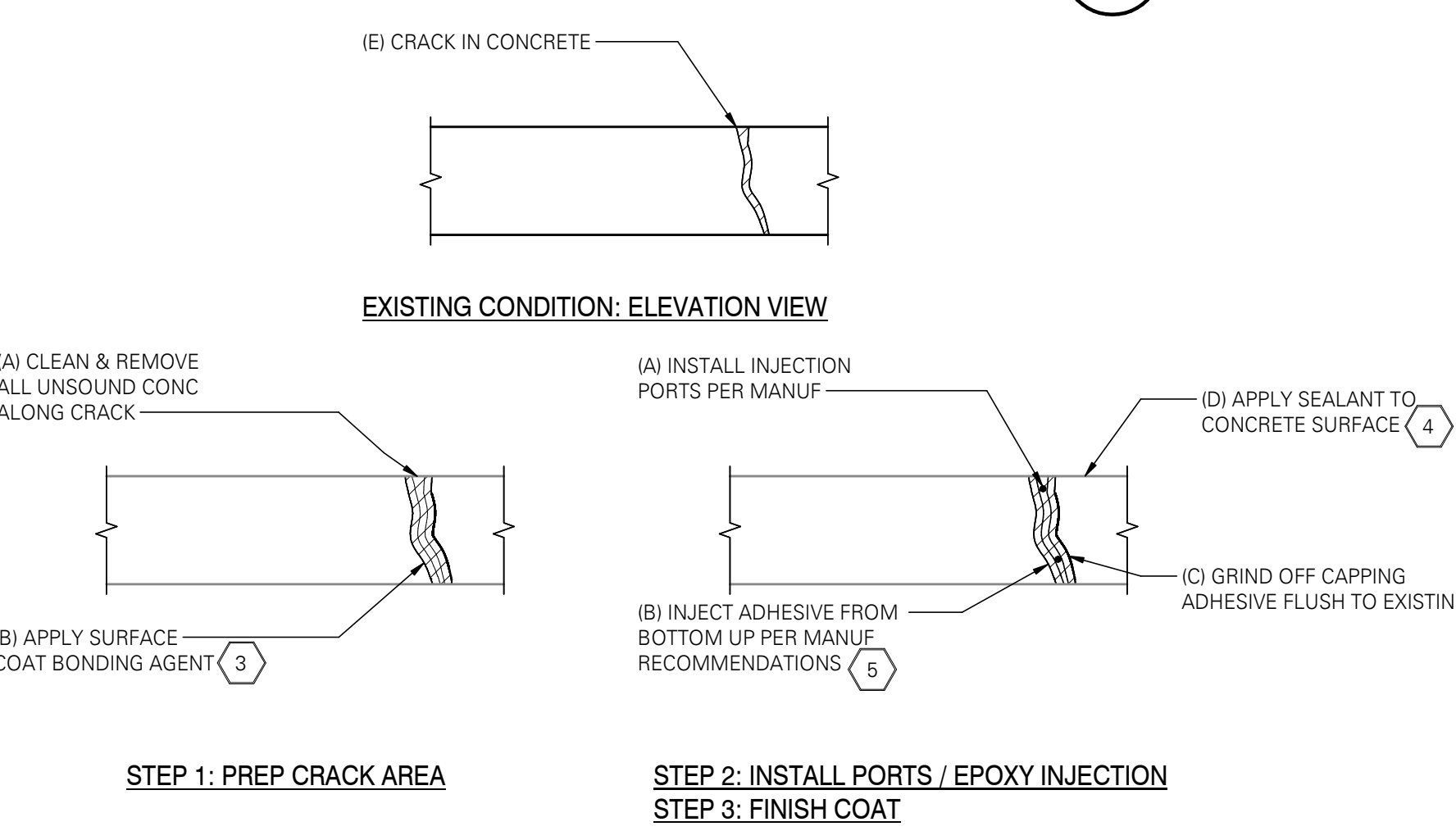
**2 (N) CONCRETE WINDOW WELL**  
SCALE: 1" = 1'-0"



**3 (N) GUARDRAIL POST CONNECTION TO CONCRETE WINDOW WELL**  
SCALE: 1 1/2" = 1'-0"



**4 TYPICAL (N) TO (E) CONCRETE CONNECTION**  
SCALE: 1" = 1'-0"

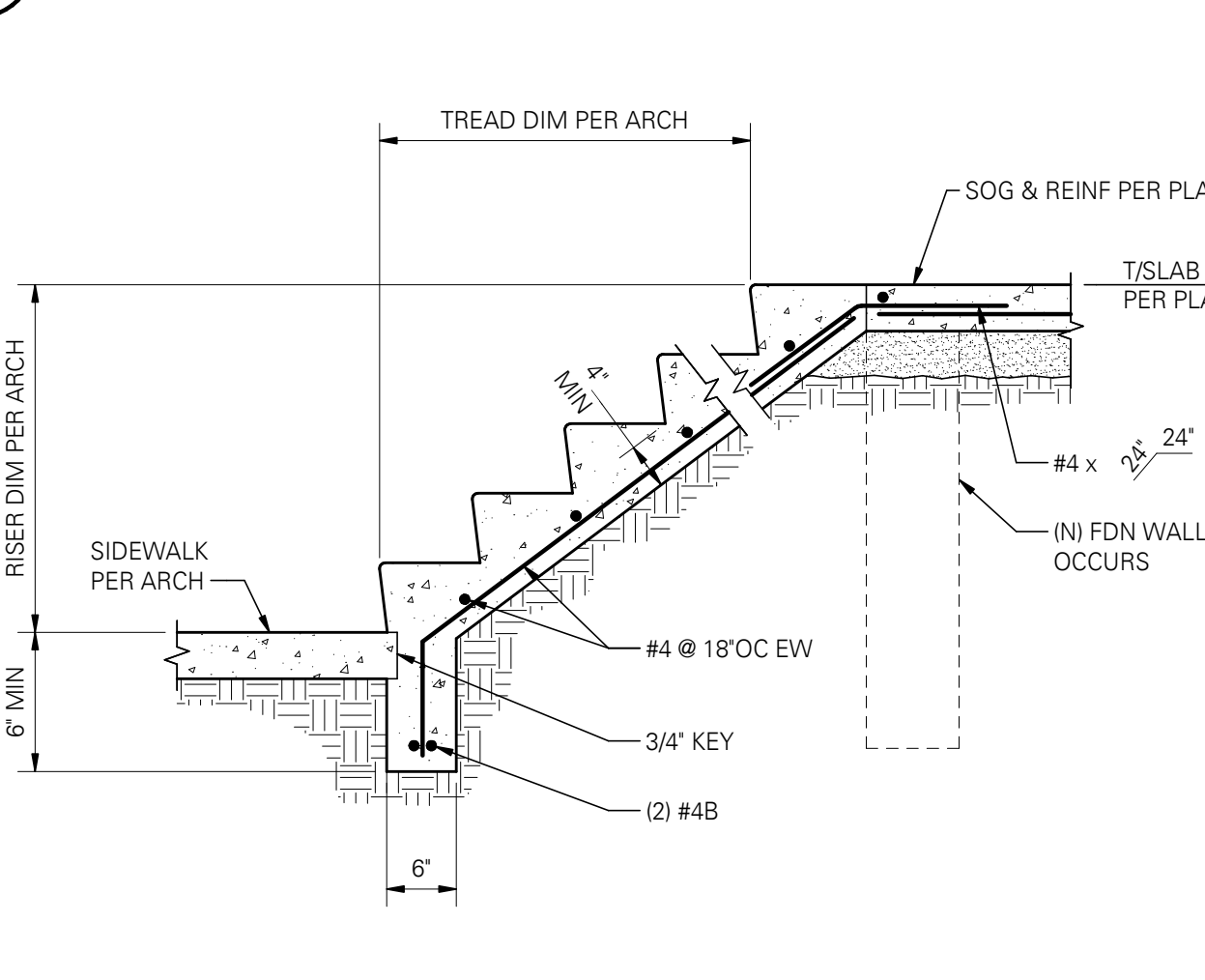


**5 TYPICAL CRACKED CONCRETE REPAIR**  
SCALE: 3/4" = 1'-0"

**PRODUCT GUIDE:**

- EUCOPATCH-FAST-SETTING PATCHING AND REPAIR MATERIAL
- EUCOPATCH-FLOWABLE MEDIUM DEPTH MATERIAL
- DURAL PREP AC-BONDING AGENT & ANTI-CORROSION COATING
- BARACADE WB244-WATER REPELLANT CONCRETE SEALER FOR ALL EXISTING CONCRETE SURFACES
- DURALCRETE EPOXY SYSTEM-PRESSURE INJECTED HIGH STRENGTH EPOXY BONDING ADHESIVE FOR STRUCTURAL CRACK

**NOTE:**  
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**7 TYPICAL STAIR ON GRADE**  
SCALE: 3/4" = 1'-0" (03800)

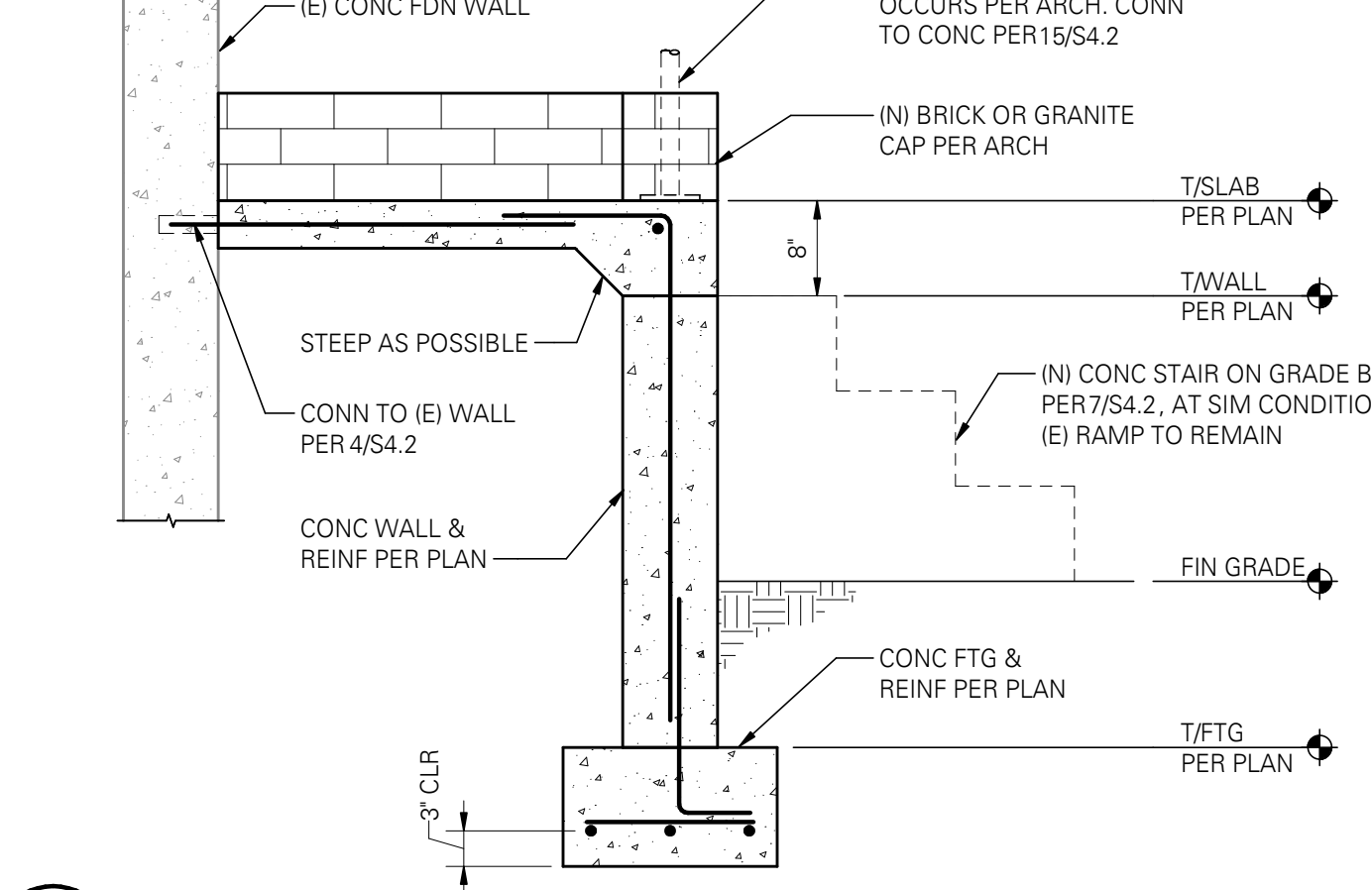
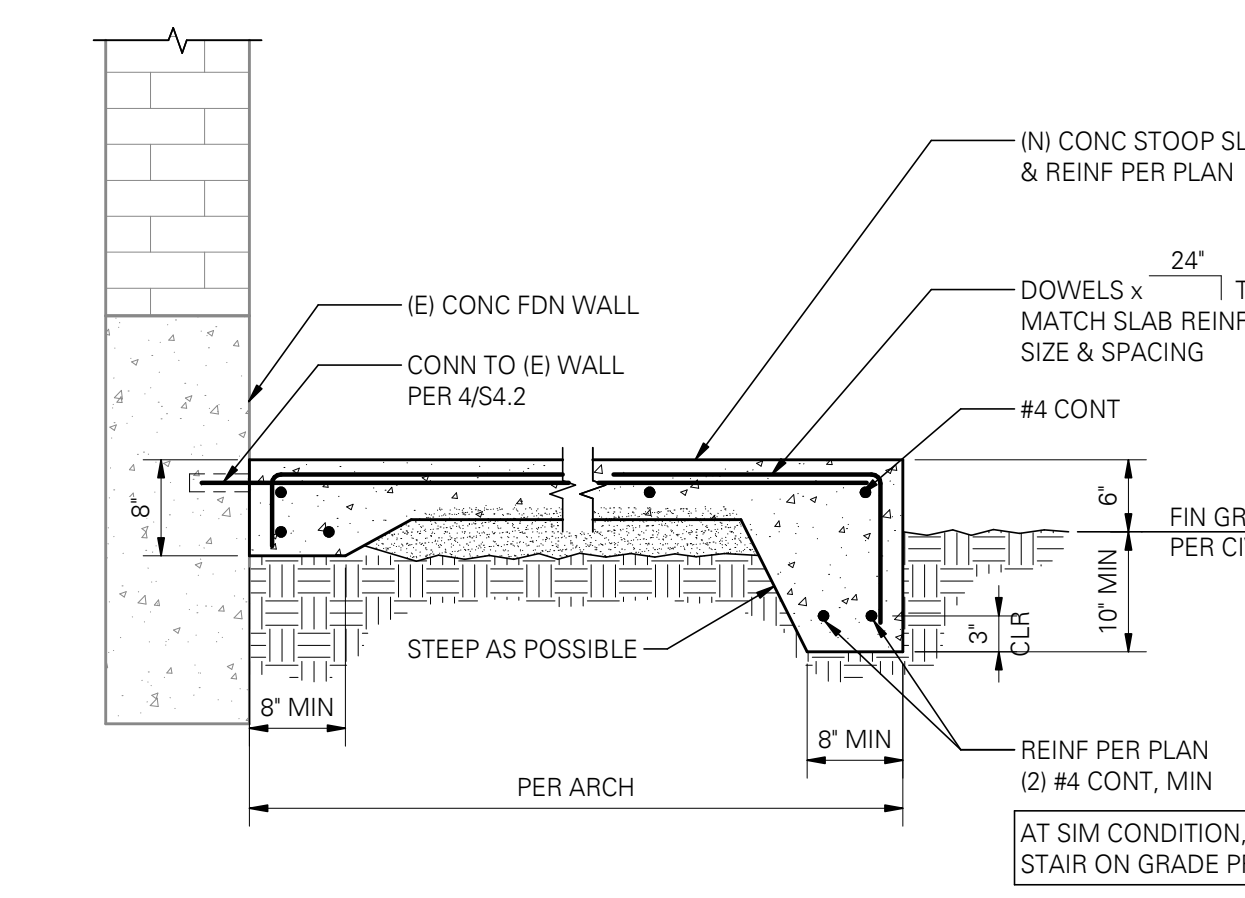
**01403B GRADE 60 REINFORCING**

BAR SIZE	MISCELLANEOUS BARS		TOP BARS (see note #3)		HOOKED BARS
	Ld	Splice	Ld	Splice	
#3	15	19	19	25	6
#4	19	25	25	33	6
#5	24	31	31	41	8
#6	29	37	37	49	10
#7	42	54	54	71	13
#8	48	62	62	81	15
#9	54	70	70	91	18
#10	61	79	79	102	22
#11	67	87	87	114	26
#14	81	N/A	105	N/A	33
#18	108	N/A	140	N/A	51

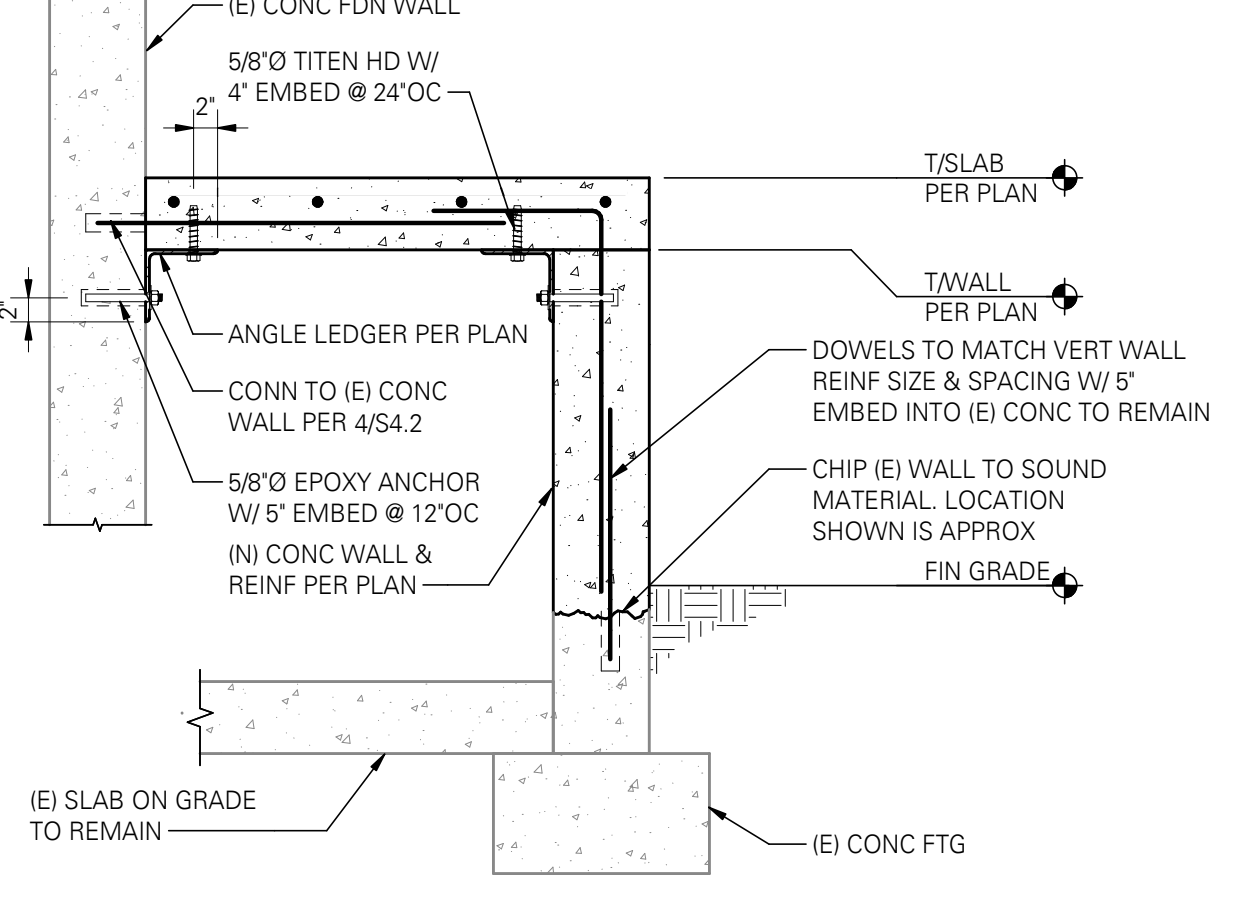
**NOTES:**

- ALL TABULATED VALUES ARE IN INCHES.
- ALL TABULATED VALUES ARE FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING > db, CLEAR COVER > db AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING > 2db AND CLEAR COVER > db.
- TOP REINFORCING = HORIZONTAL REINFORCING WITH MORE THAN 12' OF FRESH CONCRETE BELOW OR AS NOTED ON DOCUMENTS AS 'TOP BAR'.
- LAP SPLICE OF #14 AND #18 BARS IS NOT PERMITTED. LAP SPLICE OF SMALLER TO #14 AND #18 BARS IS NOT PERMITTED.

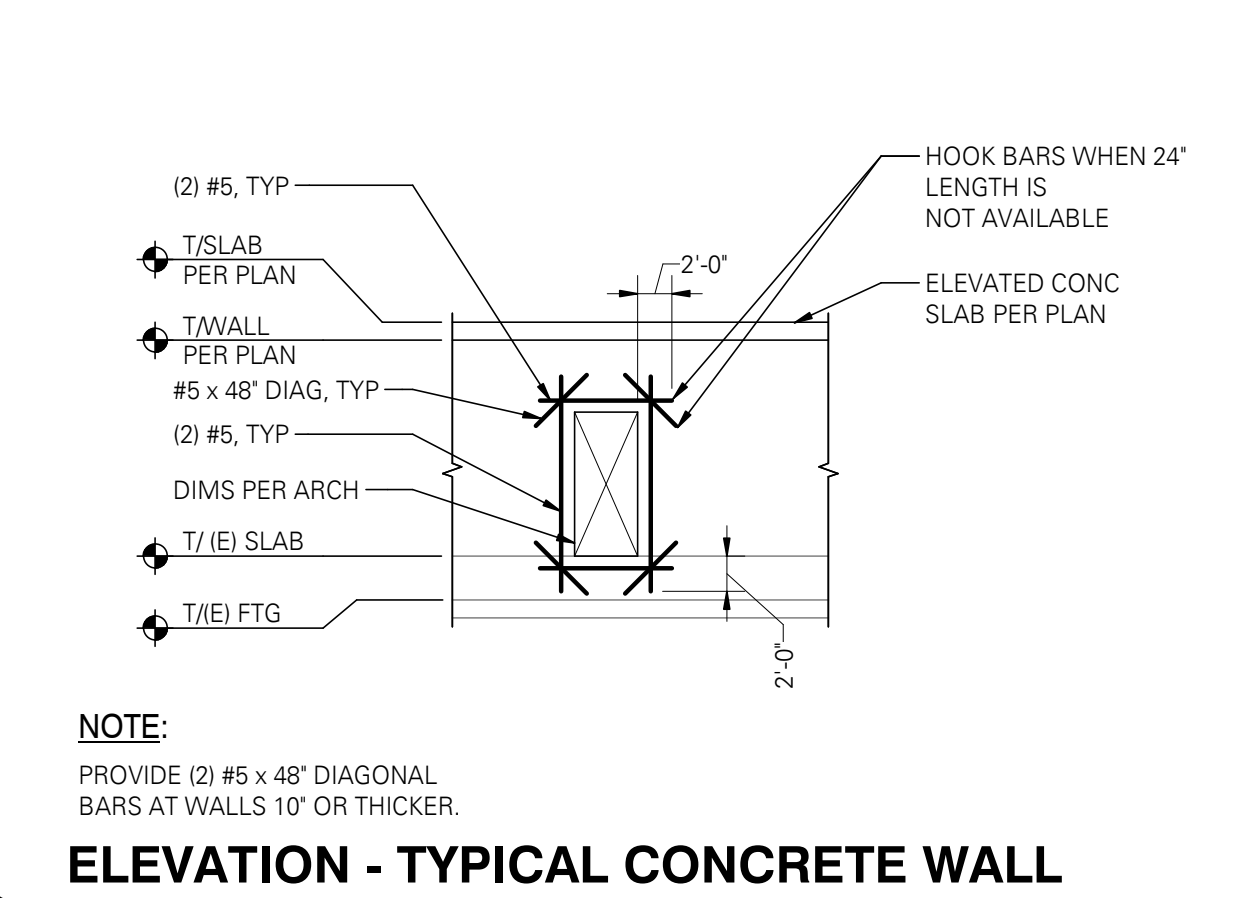
**8 LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE**  
SCALE: 3/4" = 1'-0" (01403B)



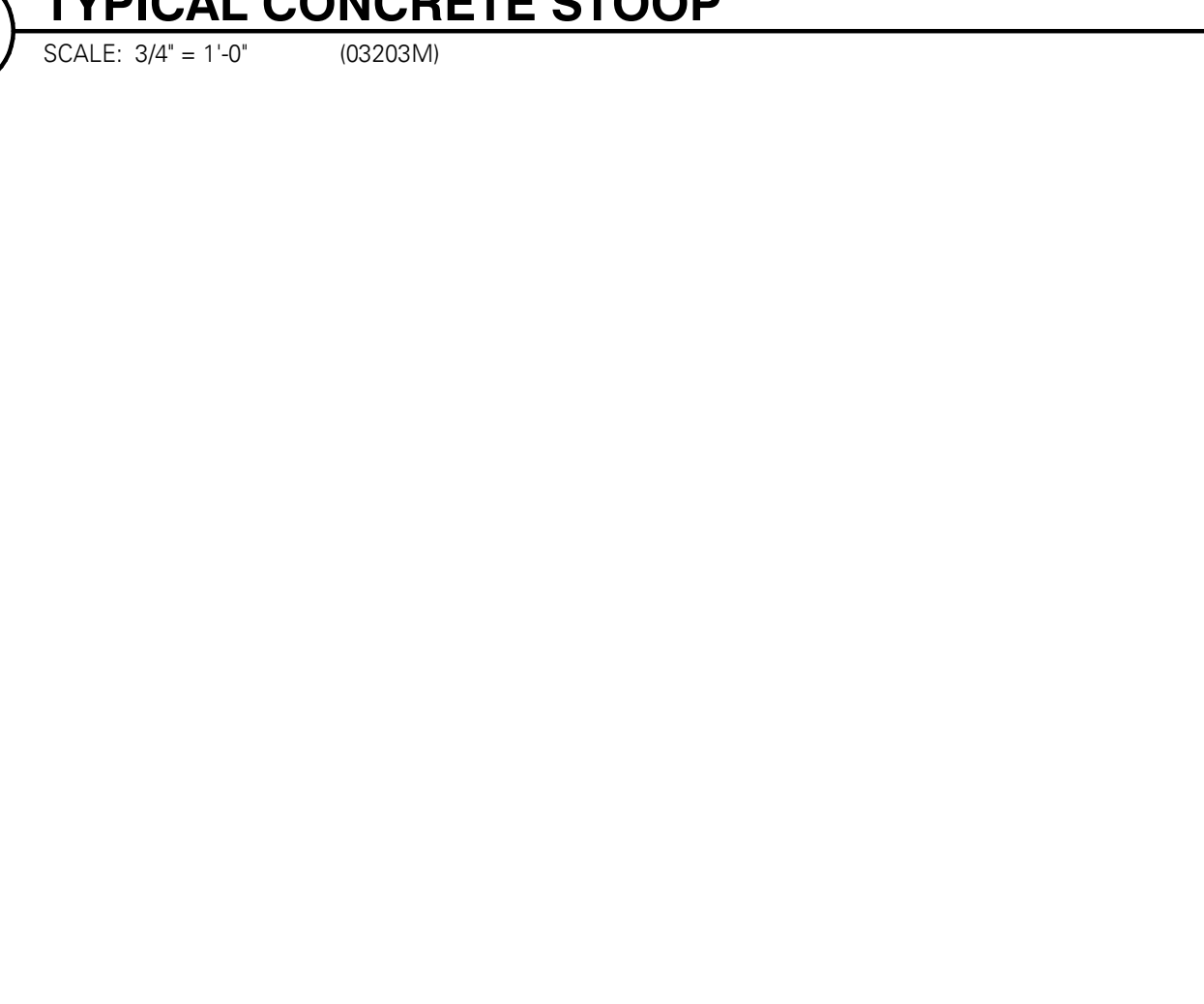
**9 TYPICAL RAISED CONCRETE STOOP**  
SCALE: 3/4" = 1'-0"



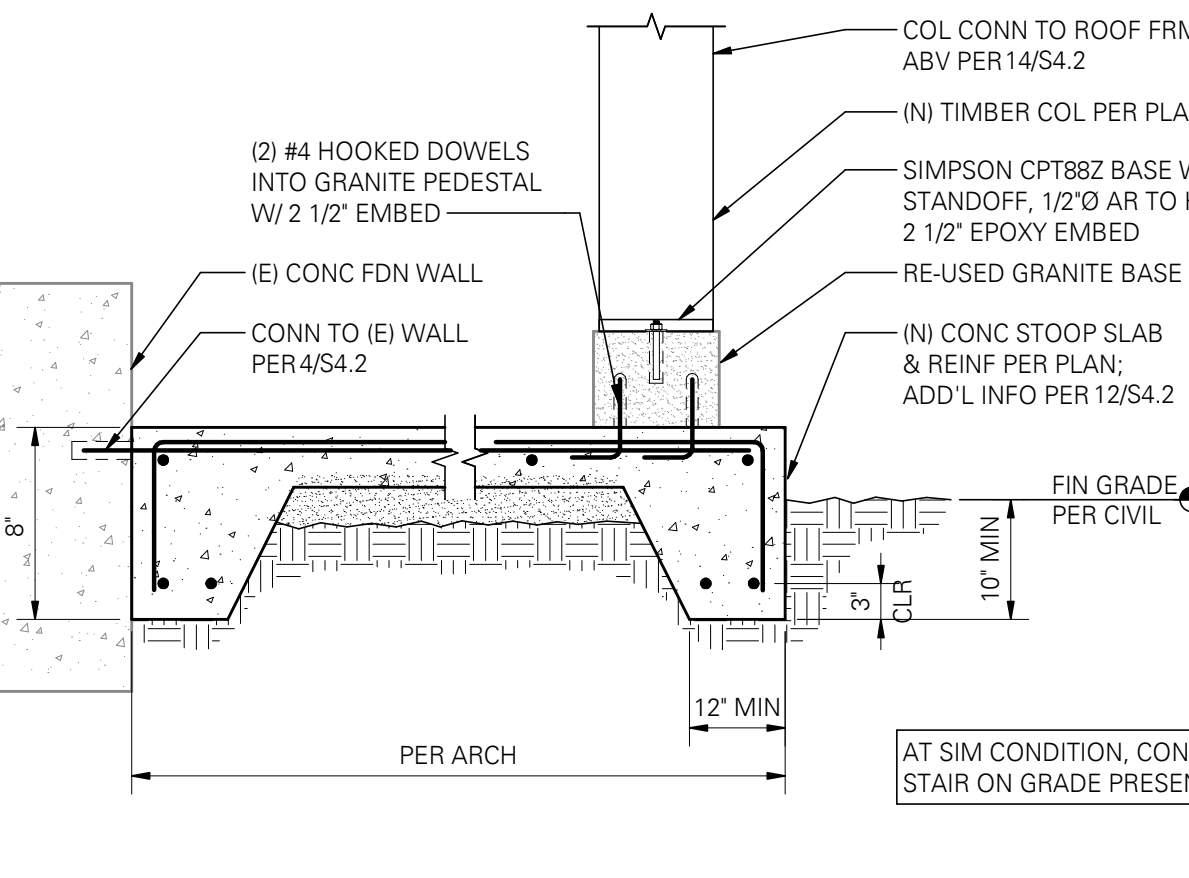
**10 (N) CONCRETE PODIUM WALL & SLAB - QUAD C**  
SCALE: 3/4" = 1'-0"



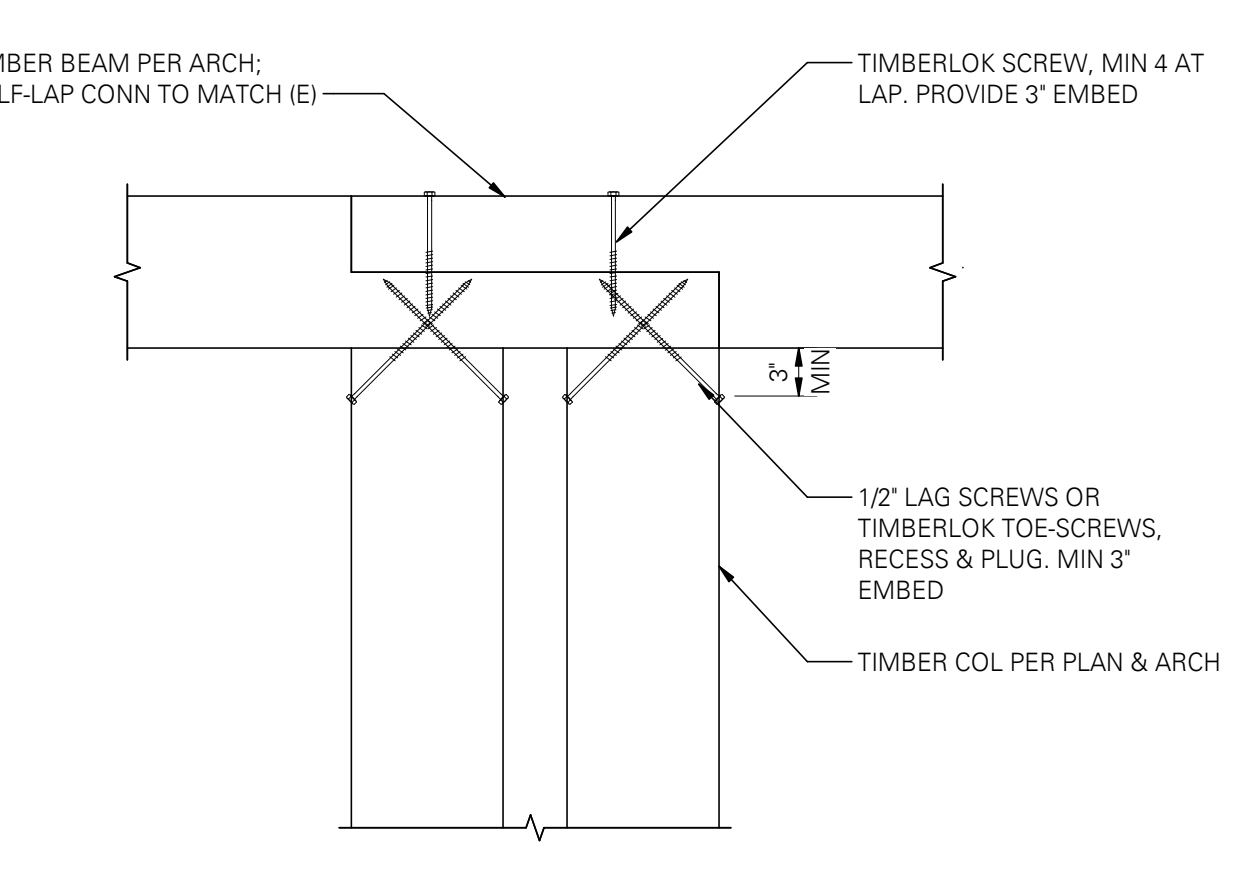
**11 ELEVATION - TYPICAL CONCRETE WALL OPENING REINFORCING**  
SCALE: 3/4" = 1'-0" (03401M)



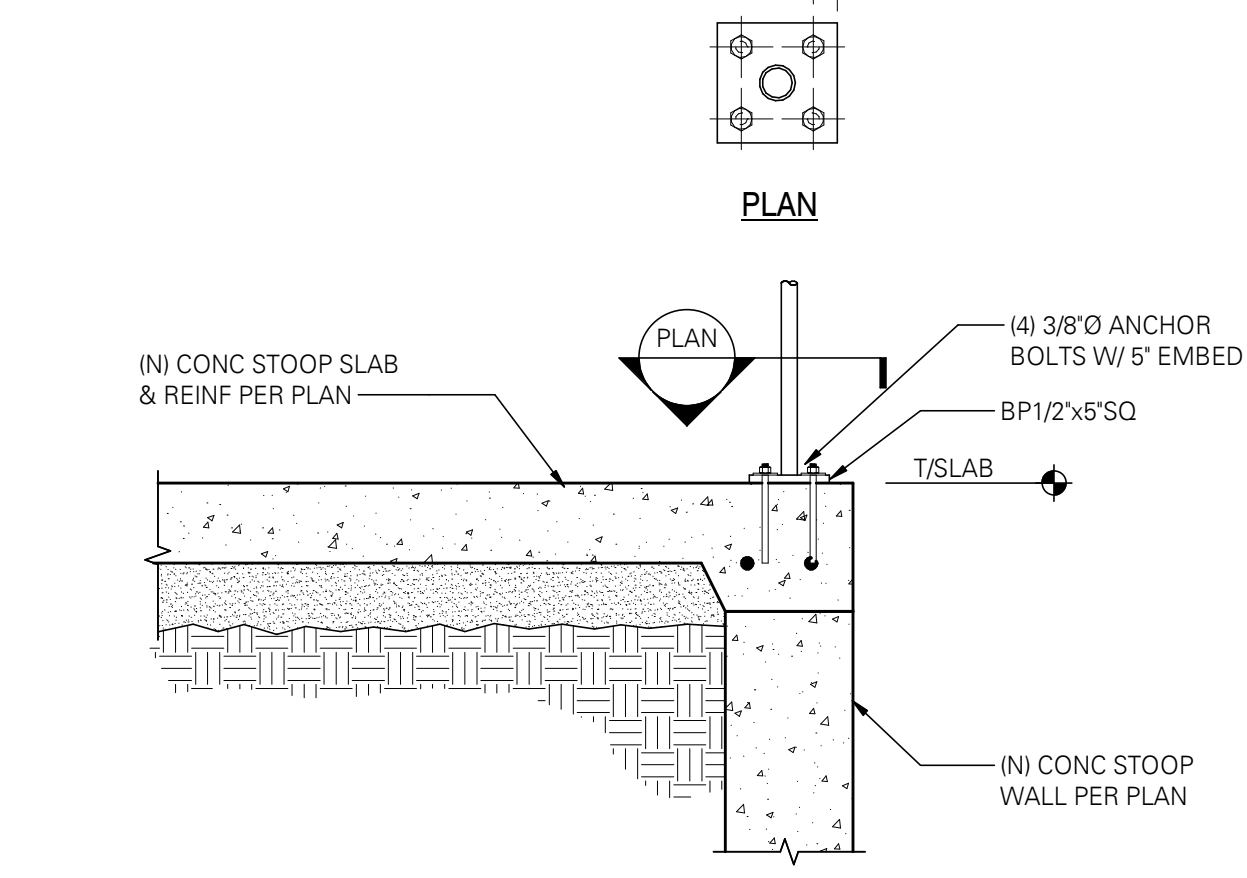
**12 TYPICAL CONCRETE STOOP**  
SCALE: 3/4" = 1'-0" (03203M)



**13 (N) CONCRETE STOOP WITH ROOF - QUADS 'C'-D'**  
SCALE: 3/4" = 1'-0" (03203M)



**14 (N) CONCRETE STOOP WITH ROOF - QUAD 'C'-D'**  
SCALE: 1" = 1'-0"



**15 TYPICAL HANDRAIL ANCHORAGE AT NEW STAIR**  
SCALE: 1" = 1'-0"