

BOBCAT STADIUM - WEST SIDE IMPROVEMENTS

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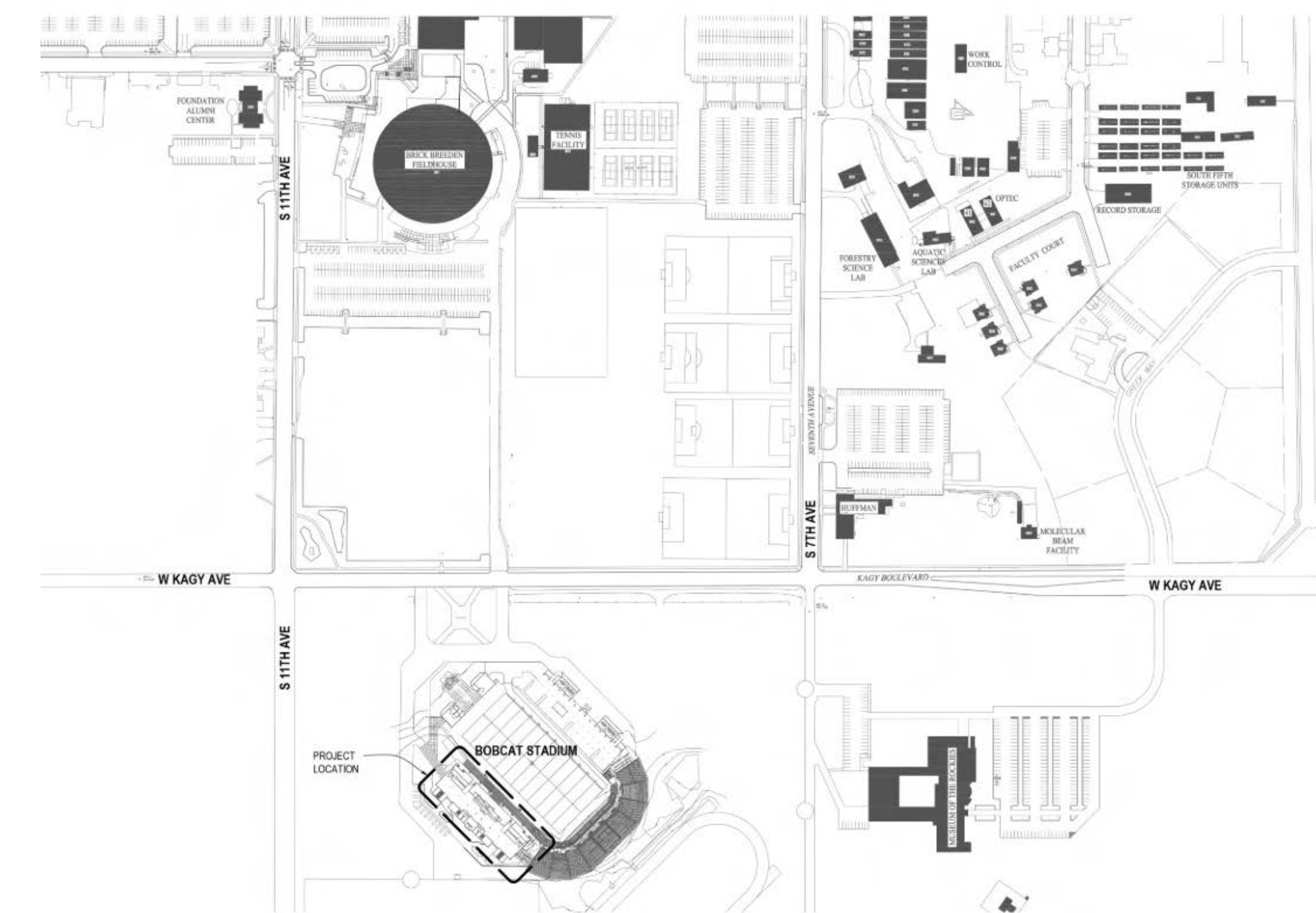
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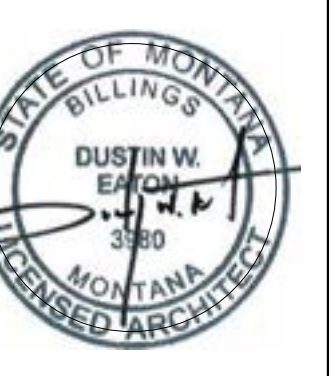
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100% CONSTRUCTION DOCUMENTS - FOR CONSTRUCTION
BOBCAT STADIUM - WEST SIDE IMPROVEMENTS
MONTANA STATE UNIVERSITY - BOZEMAN, MT



DRAWN BY: **Author**
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REV.	DESCRIPTION	DATE



PPA# 22-0514

A&E#23103

0747.080

SHEET TITLE
COVER SHEET

SHEET
GO.0

DATE
11/21/2023

GENERAL STRUCTURAL NOTES:

THESE DRAWINGS HAVE BEEN PREPARED SOLELY FOR USE IN THE CONSTRUCTION OF BOBCAT STADIUM WEST SIDE IMPROVEMENTS, AT THE LOCATION OF MONTANA STATE UNIVERSITY IN BOZEMAN, MT. POSSESSION OF THESE DRAWINGS DOES NOT GRANT A LICENSE TO CONSTRUCT OR FABRICATE THE WHOLE OR PARTS OF THIS PROJECT IN OTHER LOCATIONS.

STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL, AND SCORE BOARD SUPPLIER DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INCLUDING BUT NOT LIMITED TO DIMENSIONS, BLOCKOUTS, OPENINGS, SLEEVES, EMBEDDED ITEMS, ETC. INTO THEIR SHOP DRAWINGS AND WORK. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES OR IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN OR NOTED.

THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS AND ARE INTENDED TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

THE CONTRACTOR SHALL FURNISH THE PRODUCTS SPECIFIED ON THE DRAWINGS. SUBSTITUTIONS WILL BE CONSIDERED ONLY IF THE CONTRACTOR PROVIDES DOCUMENTATION TO PROVE THE ALTERNATIVE IS EQUALS OR EXCEEDS THE STRUCTURAL PERFORMANCE CHARACTERISTICS OF THE SPECIFIED PRODUCT.

CODE REQUIREMENTS:
ALL WORK SHALL BE IN STRICT COMPLIANCE WITH:
A. 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF MONTANA (INTERNATIONAL BUILDING CODE, 2021 EDITION, EFFECTIVE AUGUST 1, 2022)
B. ALL OTHER STATE AND LOCAL BUILDING REQUIREMENTS THAT APPLY.

TEMPORARY CONDITIONS:
CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SUPPORT PRIOR TO COMPLETION OF VERTICAL AND LATERAL LOAD SYSTEMS. MORRISON/MAIERLE HAS NOT BEEN RETAINED TO PROVIDE ANY SERVICES RELATED TO JOB SITE SAFETY PRECAUTIONS, OR TO REVIEW THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE CONTRACTOR TO PERFORM WORK, UNLESS WE ARE SPECIFICALLY RETAINED AND COMPENSATED TO DO OTHERWISE. OUR WORK IS LIMITED TO THE FINAL DESIGN OF THE WORK DESCRIBED ON OUR DRAWINGS FOR THIS PROJECT.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. BASEMENT WALLS WHICH THE TO UPPER SLABS SHALL NOT BE BACKFILLED UNTIL THE UPPER SLABS REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED AT THE TOP OF THE WALL.

EXISTING CONDITIONS:
EXISTING BUILDING SITE DIMENSIONS AND ASSUMED CONDITIONS ARE TO BE VERIFIED IN THE FIELD AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF ALL DISCREPANCIES WHICH REQUIRE A SIGNIFICANT CHANGE IN THE DESIGN AND/OR CONSTRUCTION FROM THAT SHOWN ON THE DRAWINGS.

STRUCTURAL OBSERVATIONS:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER OF RECORD A MINIMUM OF 24 HOURS IN ADVANCE OF REQUIRED OBSERVATIONS. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE OBSERVER. APPROVAL BY THE MUNICIPAL INSPECTOR DOES NOT PRECLUDE OBSERVATIONS BY THE ENGINEER OF RECORD AND APPROVAL BY THE ENGINEER OF RECORD DOES NOT PRECLUDE THE INSPECTION PROCESS BY THE MUNICIPAL INSPECTOR AND ANY OTHER CODE REQUIREMENTS FOR INSPECTION.

UPON COMPLETION OF WORK THE STRUCTURAL OBSERVER SHALL SUBMIT A REPORT TO THE OWNER AND BUILDING OFFICIAL ATTESTING TO THE VISUAL OBSERVATION MADE. THE REPORT SHALL IDENTIFY ANY REPORTED DEFICIENCIES WHICH HAVE NOT BEEN RESOLVED.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED TO DOCUMENT GENERAL CONFORMANCE OF THE STRUCTURAL DRAWINGS AND SPECIFICATIONS AT THE FOLLOWING STAGES:
AS REQUIRED TO VERIFY (E) WELD LOCATIONS AND SIZES
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES

DESIGN CRITERIA

LIVE LOAD CRITERIA (IBC 1603.1.1)

FLOOR LIVE LOADS:	UNIFORM LOAD	CONCENTRATED LOAD
ASSEMBLY AREAS	100 PSF (NON-REDUCIBLE)	N/A
STAIRS AND EXIT WAYS	100 PSF	300 LBS

SNOW LOAD CRITERIA (IBC 1603.1.3)

DESIGN SNOW LOAD	50 PSF (MSU MINIMUM)
SNOW EXPOSURE FACTOR	Ce = 1.0
SNOW LOAD IMPORTANCE FACTOR	Is = 1.0
THERMAL FACTOR	Ct = 1.2

SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL PRODUCTS, INCLUDING THE FOLLOWING:

ITEM	SUBMITTAL	DEFERRED SUBMITTAL
MASONRY REINFORCEMENT	x	
MASONRY BLOCK, MORTAR, GROUT MATERIALS	x	
STEEL WELDING PROCEDURES	x	
STAIR GRATING	x	
STEEL GRATING	x	

SHOP DRAWINGS SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION FOR ALL STRUCTURAL PRODUCTS DELIVERED TO THE PROJECT. IF THE SHOP DRAWINGS DEVIATE FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER OF RECORD.

DEFERRED SUBMITTAL DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER FOR LOADS IMPOSED ON THE SUPPORTING STRUCTURE. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE CODES AND DESIGN CRITERIA NOTED IN THESE GENERAL STRUCTURAL NOTES.

THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT, MACHINERY AND ASSOCIATED PIPING WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DEVIATE FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

THE USE OF REPRODUCTIONS OR PHOTOCOPIES OF THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED. WHEN CAD OR REVIT FILES ARE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, IT IS THE RESPONSIBILITY OF THE DETAILERS TO REMOVE ALL INFORMATION NOT DIRECTLY RELEVANT TO THE CREATION OF THE PLACING DRAWINGS AS WELL AS ALL REFERENCES TO THE OUTSIDE SOURCE FILES.

SUBMITTAL DOCUMENTS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO BEING SUBMITTED TO THE ARCHITECT FOR REVIEW.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REVIEWED SUBMITTAL TO THE BUILDING DEPARTMENT FOR DEFERRED PERMIT APPLICATION. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

METALS:

STRUCTURAL STEEL:

WELDING SHALL CONFORM TO AISC 1.1. STRUCTURAL WELDING CODE - STEEL WITH PREQUALIFIED WELDING PROCESSES EXCEPT AS MODIFIED BY AISC 360 SECTION J2. WELDING SHALL BE COMPLETED BY AWS-CERTIFIED WELDERS.

WELDS SHALL BE MADE USING E70XX ELECTRODES FOR SHIELDED METAL ARC WELDING (SMAW) AND E71XX WIRE FOR FLUX-CORED ARC WELDING (FCW) PROCESSES. FOR COMPLETE JOINT PENETRATION WELDS ASSOCIATED WITH MEMBER SPLICES AND CONNECTIONS NOT PART OF THE SEISMIC FORCE RESISTING SYSTEM, WELDS SHALL BE MADE WITH FILLET METAL THAT HAS A MINIMUM C/W TIGHTNESS OF 30 FT LBS AT 40°F.

FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. WHERE SHOWN, PROPER FIELD WELDING PER AWS SHALL BE USED. WHERE NO FIELD WELDING SYMBOLS ARE SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS.

ERECTION AIDS ARE TO BE DETERMINED AND PROVIDED BY THE CONTRACTOR. THE CONTRACTOR'S ERECTOR AND FABRICATOR SHALL COORDINATE THE TYPE AND QUANTITY OF ERECTION AIDS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION SEQUENCING, TEMPORARY BRACING, SAFETY OF WORKERS, AND OVERALL COMPLIANCE WITH APPLICABLE OSHA REQUIREMENTS.

PROVIDE WEEP HOLES AT EXTERIOR CLOSED SECTIONS WHERE MOISTURE MAY ACCUMULATE.

STEEL FRAMING SHALL BE PAINTED SHALL HAVE A SHOP APPLIED PRIMER ACCORDING TO THE SPECIFICATION SECTION 099600 AND PAINTED WITH A HIGH PERFORMANCE COATING PER SECTION 099600 REPAIR PAINT ONCE WELDING IS FINISHED OR PROVIDE ENGINEER WITH A QUALIFIED WELDING PROCEDURE FOR WELDING GALVANIZED STEEL ELEMENTS.

SEE ARCH. AND THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

STEEL STAIRS:

1. MATERIAL SPECIFICATIONS:
 - STRINGERS = ASTM A36 (EXISTING CHANNELS)
 - STEEL BAR AND PLATE = ASTM A36, 1/4" D.
 - STEEL GRATED TREADS = SERRATED CARBON STEEL 1 1/2" X 3/16" BEARING BARS @ 1" O.C. W/ CROSS BARS @ 4" O.C. W/ CHECKERED PLATE NOSE
2. PAINT STAIRS PER SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

STEEL GRATING / CHECKERED PLATE FLOORING:

1. MATERIAL SPECIFICATIONS:
 - U X D = SERRATED CARBON STEEL 1 1/2" X 3/16" BEARING BARS @ 1" O.C. W/ CROSS BARS @ 4" O.C.
2. CONNECT GRATING TO SUPPORTS WITH MANUFACTURER'S REMOVABLE "WING-NUT" FASTENERS CONNECTED TO WELDED / THREADED ANCHORS INSTALLED ON TOP OF FRAMING.
3. GRATING SHALL BE PROVIDED IN REMOVABLE SECTIONS WEIGHING NOT MORE THAN 100 POUNDS. SPLICE AS REQUIRED OVER SUPPORTING MEMBERS, BRINGING SPLICED EDGES TOGETHER TO CREATE HARLINE JOINTS.
4. PAINT PER PAINTING SPECIFICATION. COLOR PER OWNER REQUIREMENTS.
5. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

MASONRY:

REINFORCED CONCRETE MASONRY:
CONCRETE MASONRY UNITS TO BE MEDIUM WEIGHT UNITS AND SHALL COMPLY WITH ASTM C90, SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C49. LINEAR SHRINKAGE FOR UNITS SHALL NOT EXCEED 0.065%. BLOCK COMPRESSIVE STRENGTH SHALL BE AS INDICATED IN THE 'CONCRETE MASONRY ASSEMBLY STRENGTH' TABLE. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (Psi) AS INDICATED IN THE TABLE AS VERIFIED BY THE UNIT STRENGTH METHOD.

CONCRETE MASONRY ASSEMBLY STRENGTH			
f'm (PSI)	BLOCK UNIT STRENGTH (PSI)	MORTAR	GROUT STRENGTH (PSI)
2,800	2,800	TYPE M OR S	2,500

WALLS SHALL BE REINFORCED AS SHOWN ON THE PLANS AND DETAILS AND, IF NOT SHOWN, SHALL BE AS NOTED UNDER "MASONRY REINFORCING STEEL".

PROVIDE VERTICAL CONTROL JOINTS IN CONTINUOUS MASONRY SUCH THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED THE LESSER OF A LENGTH-TO-HEIGHT RATIO OF 1.5 OR 25 FEET. CONTROL JOINTS SHALL BE LOCATED NO CLOSER THAN 2" FROM EDGE OF OPENINGS. EXCEPT WHERE OFFSETS ARE SHOWN, MASONRY CONTROL JOINTS SHALL BE A CONTINUOUS VERTICAL LINE FROM TOP OF FOUNDATION TO TOP OF MASONRY WALL. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

CONCRETE SURFACES ADJUTTING STRUCTURAL MASONRY STARTER COURSES SHALL BE CLEANED AND ROUGHENED TO A FULL 1/4" AMPLITUDE.

MORTAR:
MORTAR SHALL BE OF THE TYPE INDICATED IN THE 'CONCRETE MASONRY ASSEMBLY STRENGTH' TABLE AND SHALL CONFORM TO ASTM C270 USING THE 'PROPERTY METHOD'. THE MORTAR MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 1,800 PSI FOR TYPE 'S' AND 2,500 PSI FOR TYPE 'M. MORTAR PROJECTIONS INTO CELLS TO BE GROUTED SHALL BE LIMITED TO 3/8" MAXIMUM.

MASONRY GROUT:
GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH AS INDICATED IN THE 'CONCRETE MASONRY ASSEMBLY STRENGTH' TABLE AND CONFORM TO ASTM C49. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS, AGGREGATE AND A FLUIDIFIER ADMIXTURE, INTRODUCTION AD BY SPECRETE-IP OR APPROVED EQUAL. ADMIXTURE DOSAGE TO BE IN STRICT COMPLIANCE WITH MANUFACTURERS RECOMMENDATIONS.

ALL CELLS CONTAINING VERTICAL BARS AND ALL BOND BEAMS SHALL BE FILLED WITH GROUT. FULLY GROUT ALL STRUCTURAL MASONRY WALLS UNLESS NOTED OTHERWISE.

THE MAXIMUM GROUT POUR HEIGHT SHALL BE 12'-8". CLEAN-OUTS AND BAR POSITIONERS ARE REQUIRED FOR ANY POUR HEIGHT GREATER THAN 5'-0" UNLESS A GROUT DEMONSTRATION PANEL IS CONSTRUCTED. WHERE CLEAN-OUTS ARE REQUIRED, CLEAN-OUTS SHALL BE LOCATED AT ALL CORERS CONTAINING VERTICAL REINFORCEMENT AND AT A MAXIMUM OF 32" O.C. GROUT LIFTS GREATER THAN 5'-0" ARE PERMITTED PROVIDED THAT THE FOLLOWING CONDITIONS ARE MET:
• THE MASONRY HAS CURED FOR AT LEAST 4 HOURS.
• THE GROUT SHALL BE MAINTAINED BETWEEN 10 AND 11 INCHES.
• NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND THE BOTTOM OF THE POUR HEIGHT.

MASONRY REINFORCING STEEL:
REINFORCING FOR MASONRY SHALL CONFORM TO ASTM A615, GRADE 60. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A708 GRADE 60. REINFORCING SHALL BE SECURELY PLACED IN ACCORDANCE WITH ACI 530 SECTION 1.4. UNLESS NOTED OTHERWISE ON THE PLANS, THE MINIMUM WALL REINFORCING SHALL BE AS FOLLOWS:
• VERTICAL: (1) #5 AT 48" O.C.
• HORIZONTAL: (2) #4 AT 48" O.C. FOR RUNNING BOND, (2) #4 AT 24" O.C. FOR STACKED BOND.
• CORNERS AND INTERSECTIONS: (1) #5 CORNER BAR x 24 INCHES x 24 INCHES AT EACH BOND BEAM FOR 10 AND 12 INCH WALLS.

FABRICATE AND INSTALL REINFORCING STEEL IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE MANUAL OR STANDARD PRACTICE. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL STRUCTURAL CONCRETE MASONRY WALLS SHOWING LOCATIONS OF BOND BEAMS, REINFORCING BARS, AND OTHER SPECIAL REINFORCEMENT.

SPLICES IN VERTICAL WALL REINFORCING CONTAINING (2) OR MORE BARS SHALL BE LAPPED 62 BAR DIAMETERS. FOR OTHER SPLICES A 52 BAR DIAMETER LAP MAY BE USED.

BOND BEAMS WITH TWO #4 BARS HORIZONTALLY SHALL OCCUR AT EACH INTERMEDIATE FLOOR OR ROOF LEVEL AND AT TOP OF WALLS WHERE WALLS EXTEND ABOVE THE ROOF. STEP BOND BEAMS AS REQUIRED TO MATCH ROOF SLOPES. PROVIDE A BOND BEAM WITH TWO #4 BARS HORIZONTALLY ABOVE AND BELOW ALL OPENINGS, AND EXTEND 2'-6" PAST THE OPENING AT EACH SIDE. PROVIDE (2) #5 EXTENDING THE FULL LEVEL HEIGHT AT EACH SIDE OF OPENINGS AND AT WALL ENDS UNLESS NOTED OTHERWISE.

FOUNDATION DOWELS SHALL BE PROVIDED TO MATCH SIZE AND SPACING OF WALL REINFORCING AND BE DEVELOPED IN THE MASONRY AND CONCRETE.
MINIMUM GROUT COVER BETWEEN REINFORCEMENT AND THE INSIDE FACE OF CELLS SHALL BE 1/4" FOR FIVE GROUT AND 1/2" FOR COURSE GROUT.

MASONRY CONNECTORS:
HEADED STEEL STUD CONNECTORS SHALL BE NELSON GRANULAR FLUX-FILLED HEADED STUDS OR PRIOR APPROVED EQUAL, AND BE MANUFACTURED FROM ASTM A308-17 (A108, GRADES 1010-1020) COIL ROLLED CARBON STEEL WITH A MINIMUM TENSILE STRENGTH OF 60,000 PSI. DEFORMED BAR ANCHORS SHALL BE NELSON TYPE DS OR APPROVED EQUAL. STUDS AND DEFORMED BAR TO BE AUTOMATICALLY END WELDED WITH A STUD WELDING GUN. ALTERNATE WELDING PROCEDURES MAY BE USED ONLY WITH PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

UNLESS A SPECIFIC ANCHOR PRODUCT IS NOTED IN THE DRAWINGS, POST-INSTALLED ANCHORS MAY USE ONE OF THE ANCHORS LISTED BELOW FOR THE REQUIRED TYPE.

TYPE	PRODUCT	REPORT #
ADHESIVE	SIMPSON SET-XP	IAPMO ER-265
ANCHORS & DOWELS	SIMPSON SET-XP	IAPMO ER-261
	HL-TI HIT-14Y-270	ICC ESR-4143
EXPANSION ANCHOR	SIMPSON WEDGE-ALL	ICC ESR-1396
	HL-TI KWIK BOLT 3	ICC ESR-1385
SECURE ANCHOR	SIMPSON TITEN HD	ICC ESR-1056
	HL-TI KWIK HUS-EZ	ICC ESR-3056

ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND PRODUCT EVALUATION REPORTS. EMBEDMENTS SPECIFIED ON DRAWINGS ARE EFFECTIVE EMBEDMENTS. REFERENCE MANUFACTURER LITERATURE FOR CORRESPONDING ACTUAL EMBEDMENT DEPTHS.

ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL.

MASONRY VENEER:
MASONRY VENEER SHALL BE ANCHORED TO MEET THE REQUIREMENTS OF ACI 530 SECTION 6.2. VENEER SHALL BE ANCHORED DIRECTLY TO WALL STUDS, COLUMNS, CONCRETE WALLS, CMU WALLS, OR OTHER STRUCTURAL ELEMENTS. MASONRY VENEER HORIZONTAL JOINT REINFORCING SHALL BE LARGER TYPE GALVANIZED WIRE CONTINUOUS OR A SINGLE #6 GALVANIZED WIRE CONTINUOUS. ANCHORS SHALL BE SPACED NO MORE THAN 16" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY. IN NO CASE SHALL THE AREA OF VENEER SUPPORTED BY A SINGLE ANCHOR EXCEED 2.0 SQUARE FEET. EMBED ANCHORS INTO THE MORTAR JOINT A MINIMUM DISTANCE OF 1-1/2" WITH AT LEAST 5/8" MORTAR COVER TO THE OUTSIDE FACE. SEE ARCHITECTURAL FOR ALL JOINTING, FLASHING, WATER PROOFING AND OTHER RELATED DETAILING OF MASONRY VENEER.

ISOLATE THE SIDES AND TOP OF ANCHORED VENEER FROM THE STRUCTURE SO THAT THE VERTICAL AND LATERAL FORCES RESISTED BY THE STRUCTURE ARE NOT IMPARTED TO THE VENEER.

ABV	ABOVE	J	JOIST
ADOL	ADDITIONAL	LAM	LAMINATED VENEER LUMBER
AD	ADHESIVE DOWEL	LVL	LINER FEET
ALT	ALTERNATE	LF	LIVE LOAD
ACI	AMERICAN CONCRETE INSTITUTE	LLH	LONG LEG HORIZONTAL
ASCE	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LLV	LONG LEG VERTICAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MFR	MANUFACTURER
APA	AMERICAN PLYWOOD ASSOCIATION	M	MASONRY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	ML	MASONRY LINTEL
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	MP	MASONRY PIER
AS	ANCHOR BOLT	MAX	MAXIMUM
AR	ANCHOR ROD	MECH	MECHANICAL
RL	ANGLE	MBR	MEMBER
ARCH	ARCHITECT	MTL	METAL
		MD	METAL DECK
		MEZZ	MEZZANINE
B PL	BASE PLATE	MIN	MINIMUM
BSMT	BASEMENT	MISC	MISCELLANEOUS
BM	BEAM		
BRG	BEARING	NLB	NONLOAD BEARING
BLW	BELOW	N	NORTH
BTWN	BETWEEN	NA	NOT APPLICABLE
BLKG	BLOCKING	NTS	NOT TO SCALE
BOT	BOTTOM	N	NUMBER
BLDG	BUILDING	OC	ON CENTER
BU	BUILT UP	OPNG	OPENING
		OPEN	OPEN WEB JOIST
		OPP	OPPOSITE
CANTILE	CANTILEVER	PAR	PARALLEL
CB	CARRIAGE BOLT	PERP	PERPENDICULAR
CP	CASE PLACE	PREFAB	PREFABRICATE
CTR	CENTER	PH	PHASE
CTRD	CENTERED	PL	PLAIN
CL	CENTERLINE	PL'HYD	PLAIN HYDRO
CLR	CLEAR	PLT	PLATE
CF	COLD FORMED METAL FRAMING	PL'OD	PLAIN O.D.
COL	COLUMN	LB3	POUND
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CC	CONCRETE COLUMN	PP	POUNDS PER SQUARE FOOT
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CD	CONSTRUCTION DOCUMENTS	PT	PRESSURE TREATED
CJ	CONSTRUCTION JOINT	QA	QUALITY ASSURANCE
CONT	CONTINUOUS	CONT	CONTINUOUS CONCRETE FOOTING
CONTR	CONTRACTOR	R	RADIUS
CJ	CONTROL JOINT	REF	REFERENCE
COORD	COORDINATE	REFR	REINFORCEMENT REINFORCING
X BRACE	CROSS BRACE	REBAR	REINFORCING STEEL BARS
		RECUR	RECURRING
		REV	REVISION
D	DEAD LOAD	RGD INS	RIGID INSULATION
DL	DEGREE	RO	ROUND
DEG	DEGREE	SCHD	SCHEDULE
DEMO	DEMOLITION	SCREW	SCREW ANCHOR
DET	DETAIL	SHTNG	SHEATHING
DM	DIMENSION	SCJ	SILAR CONTRACTION JOINT
DN	DISTANCE	SQ	SQUARE
DOUGLAS FIR	DOUGLAS FIR	SF	SQUARE FEET
DWG	DRAWING	SI	SQUARE INCH
		SPEC	SPECIFICATION
EA	EACH	STD	STANDARD
EW	EACH WAY	STL	STEEL
ELEV	ELEVATOR	STL DCK	STEEL DECK
ENGR	ENGINEER	STL JST	STEEL JOIST
EQ	EQUAL/EOUALLY	STIF	STIFFENER
EQUIP	EQUIPMENT	STRUCT	STRUCTURAL
EXT	EXTERIOR	STR	STRUCTURAL INSULATED PANEL
EXP	EXPANSION	SUB FLR	SUBFLOOR
EXP BT	EXPANSION BOLT	SUB	SUBSTITUTE
EXT	EXTERIOR		
FO	FACE OF		
FT	FASTENER	KIP	THOUSAND POUNDS
FT	FEET	TB	THROUGH BOLT
FLR	FLOOR	TMBR	TIMBER
FDTN	FOUNDATION	T&G	TONGUE AND GROOVE
FTG	FOOTING	T&B	TOP AND BOTTOM
FS	FOOTING STEP	TOB	TOP OF BEAM
GALV	GALVANIZED	TOC	TOP OF CONCRETE
GL	GAUGE	TOP	TOP OF DECK/HEATHING
GC	GENERAL CONTRACTOR	TOP	TOP OF FOOTING
GLB	GLUE LAMINATED	TOM	TOP OF MASONRY
GR	GRADE	TOS	TOP OF STEEL
GR BM	GRADE BEAM	TOW	TOP OF WALL
GROUT	GROUT	TJ	TRUSS JOIST
GYP	GYPNUM	TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
HGR	HANGER	VIF	VERIFY IN FIELD
HSA	HEADED STUD ANCHOR	VERT	VERTICAL
HR	HEADER		
HT	HEIGHT	WLD	WELDED/WELDED
H	HIGH	WWF	WELDED WIRE FABRIC
HD	HOLD-DOWN	W	WIDE
HSS	HOLLOW STRUCTURAL SECTION	WF	WIDE FLANGE
HK	HOLE	WL	WIND LOAD
HORIZ	HORIZONTAL	W	WIND
		WO	WITHOUT
INFO	INFORMATION	WD	WOOD
INT	INTERIOR	WG	WOOD BEAM HANGER
IBC	INTERNATIONAL BUILDING CODE	WP	WORKING POINT

STRUCTURAL ABBREVIATIONS



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BOBCAT STADIUM - WEST SIDE IMPROVEMENTS
MONTANA STATE UNIVERSITY - BOZEMAN, MT



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REVIEWED BY: **JBF**
REV. DESCRIPTION DATE

REV.	DESCRIPTION	DATE



PPA#22-0514

A&E#23103

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SHEET TITLE

GENERAL

STRUCT. NOTES

SHEET

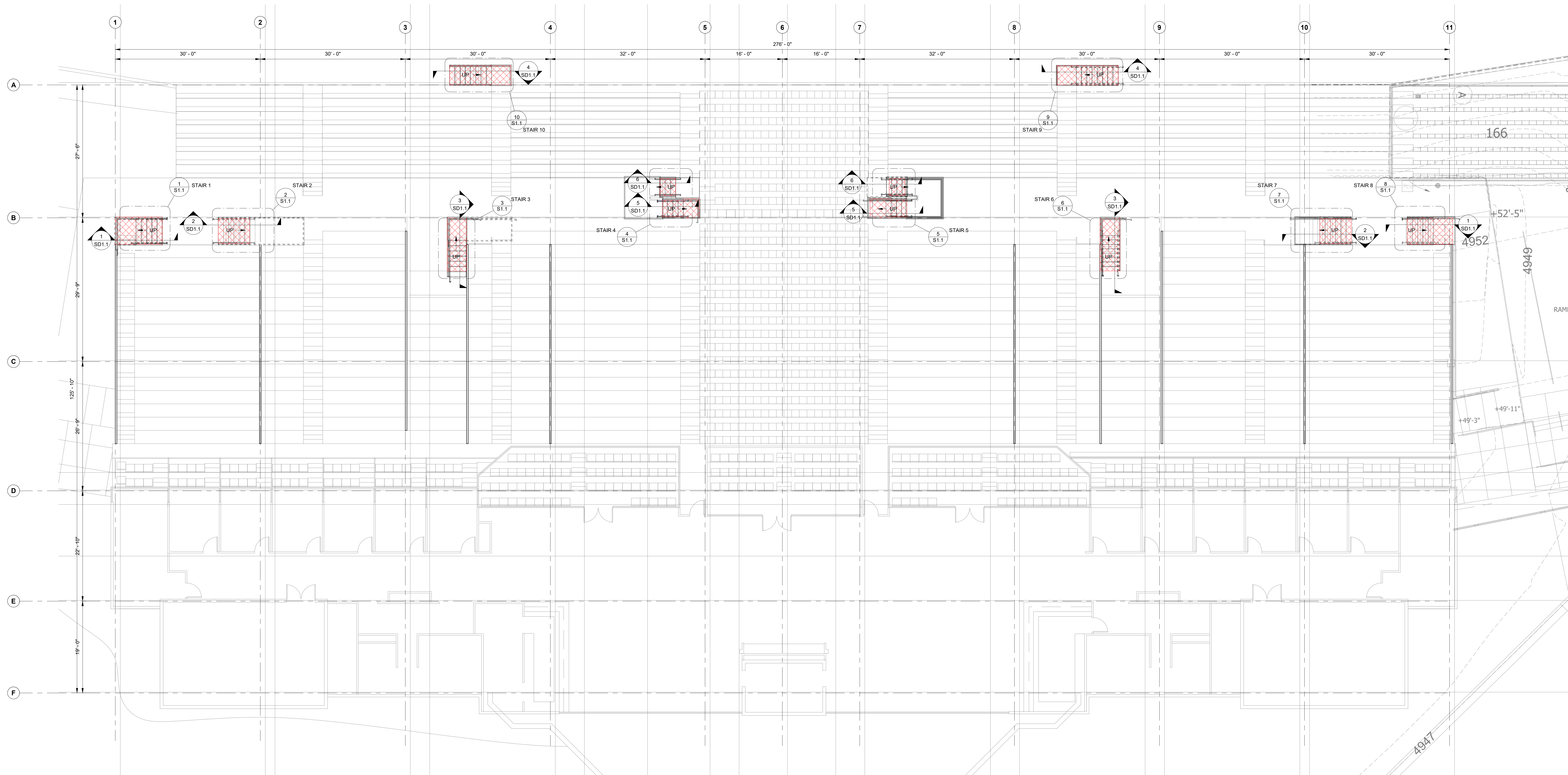
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STRUCTURAL DEMOLITION NOTES:

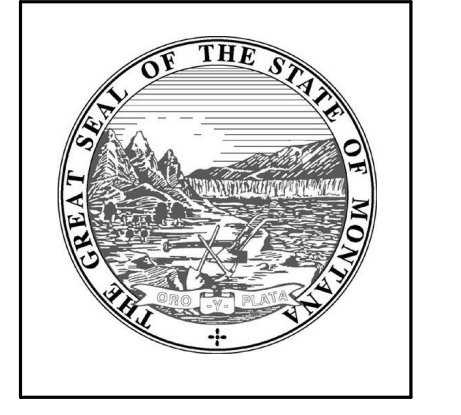
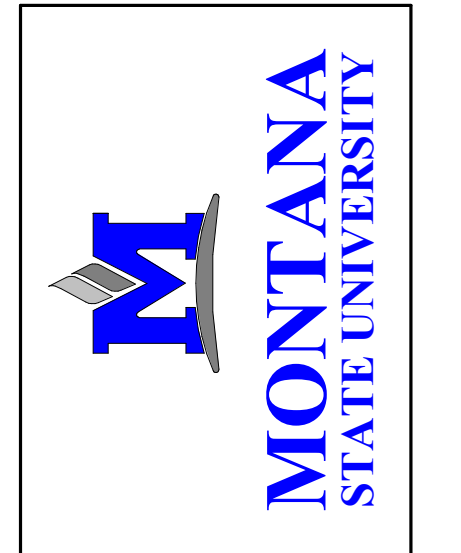
- PREPARE AND DEMO ALL RISERS AND CONCRETE-FILLED STEEL PAN STAIR TREADS BETWEEN STAIR STRINGERS AT STAIRS 1-10. PREPARE AND DEMO THE STAIR LANDINGS AT STAIRS 1,3,6 AND 8-10, ALONG WITH THE UPPER LANDINGS AT STAIRS 4 AND 5. DEMO SHALL INCLUDE:
 - 44 RISERS AND CONCRETE FILLED STEEL PAN STAIR TREADS @ -3'-10" IN WIDTH
 - 22 RISERS @ -5'-4" IN WIDTH
 - CONNECTION OF RISERS TO STRINGERS, (2) PER TREAD
 - DUE TO EXCESSIVE RUSTING OF THE EXISTING DECK, DEMO EXISTING CONCRETE ON THE METAL DECK LANDINGS AT STAIRS 1,3,6 AND 8-10. ALSO DEMO THE EXISTING CONCRETE ON METAL DECK AT THE UPPER LANDINGS OF STAIRS 4 AND 5.
- DURING THE DEMO PROCEDURE, PROTECT AND MAINTAIN STAIR STRINGERS (2) TOTAL LANDING STEEL SUPPORT STRUCTURE, AND STAIR GUARDRAILS, STAIR STRINGERS AND STAIR LANDING STEEL SUPPORT STRUCTURE SHALL REMAIN IN-PLACE. DEMO DOES NOT INCLUDE THE FOLLOWING:
 - (2) C10X20 STRINGERS AT EA STAIR
 - C200 STAIR LANDING SUPPORTS
 - THE EXISTING CONCRETE LANDINGS AT STAIRS 2, 7 AND THE MIDDLE AND LOWER LANDINGS AT STAIRS 4 AND 5
- EXISTING HANDRAIL TO REMAIN, PROTECT AND MAINTAIN DURING DEMO PROCEDURES.
- EXISTING FRAMING SHOWN FOR REPRESENTATIVE PURPOSES ONLY. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- PRIOR TO PLACEMENT OF NEW STAIR METAL GRATING TREADS AND LANDINGS, REMOVE ALL EXISTING PAINT AND CORROSION FROM STEEL CHANNEL STAIR STRINGER AND LANDING SUPPORT SURFACE. REPAINT AND COAT PER ARCH. AND SPECIFICATIONS. THIS INCLUDES THE EXISTING CONNECTIONS FROM THE ENDS OF THE STAIR STRINGERS TO THE CONCRETE BELOW.



13 STRUCTURAL STAIR DEMO PLAN
1/8" = 1'-0"

KEY PLAN

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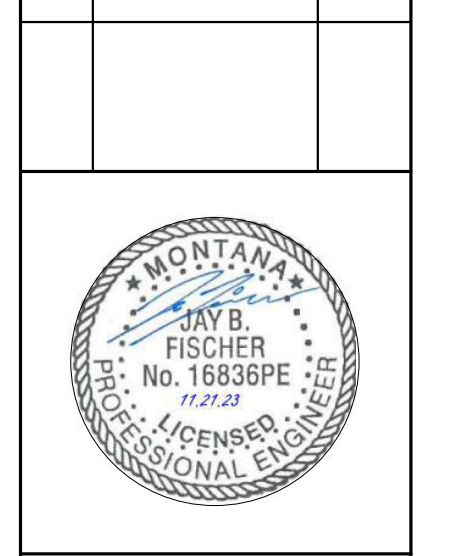


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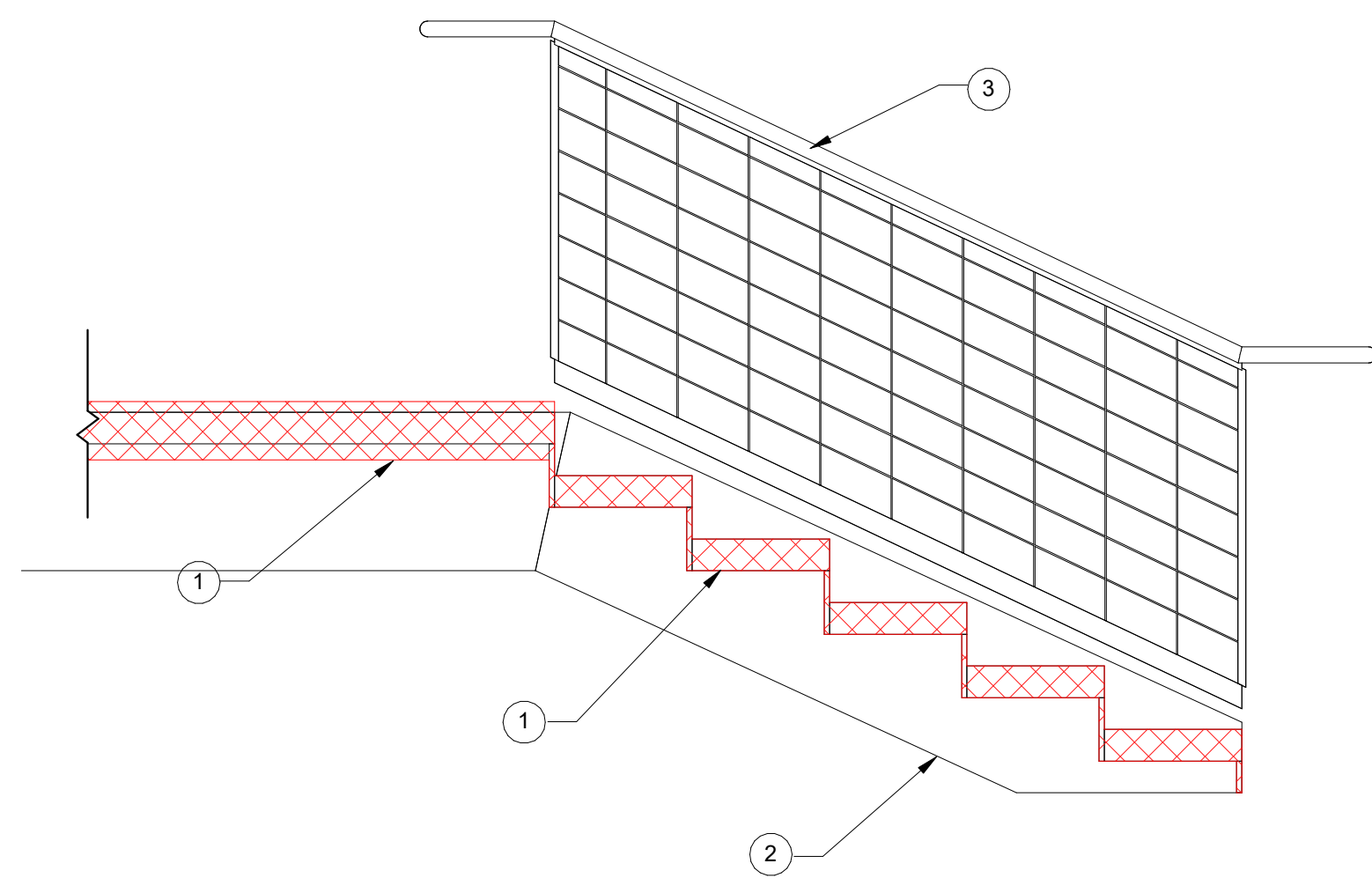
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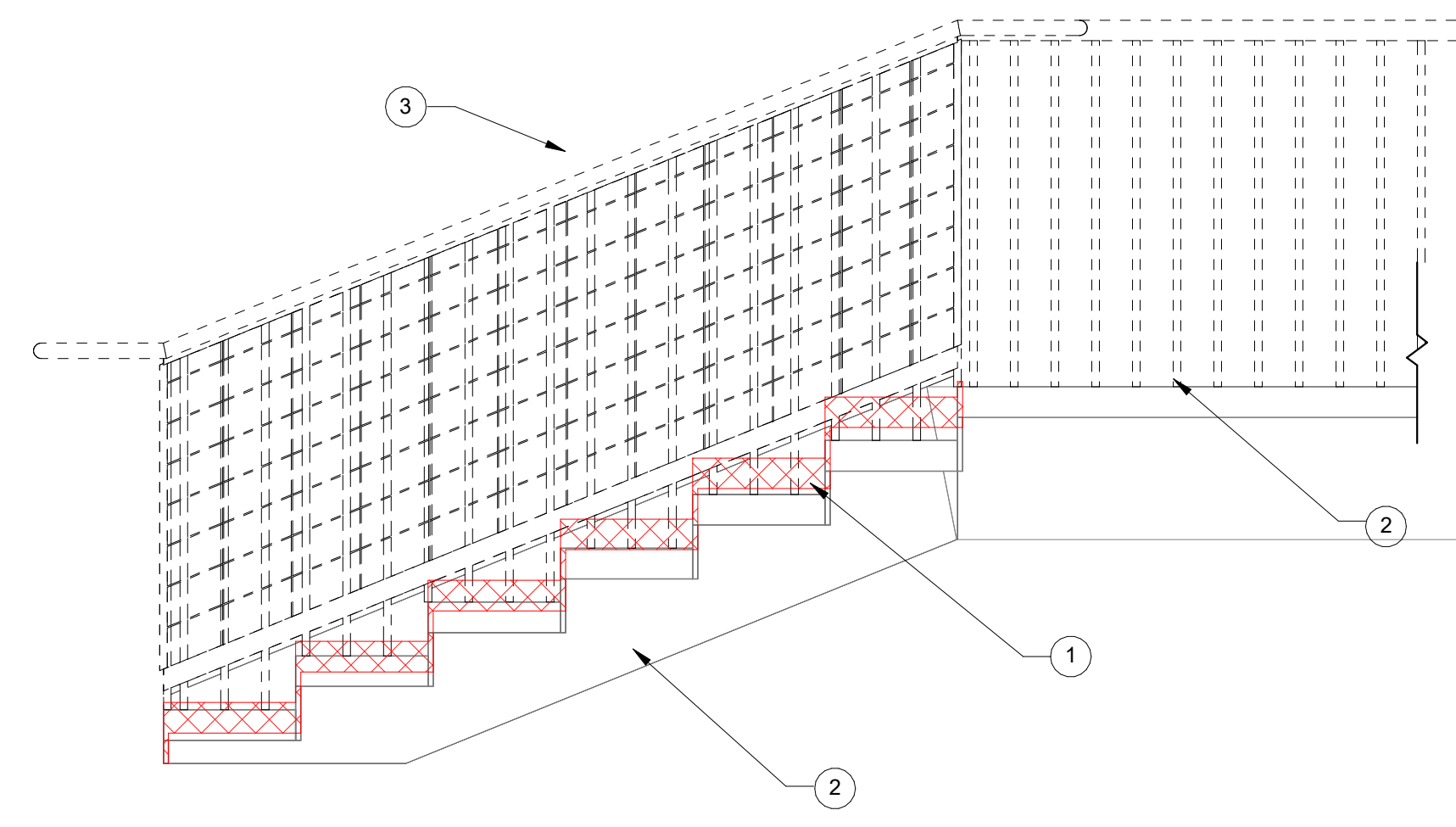
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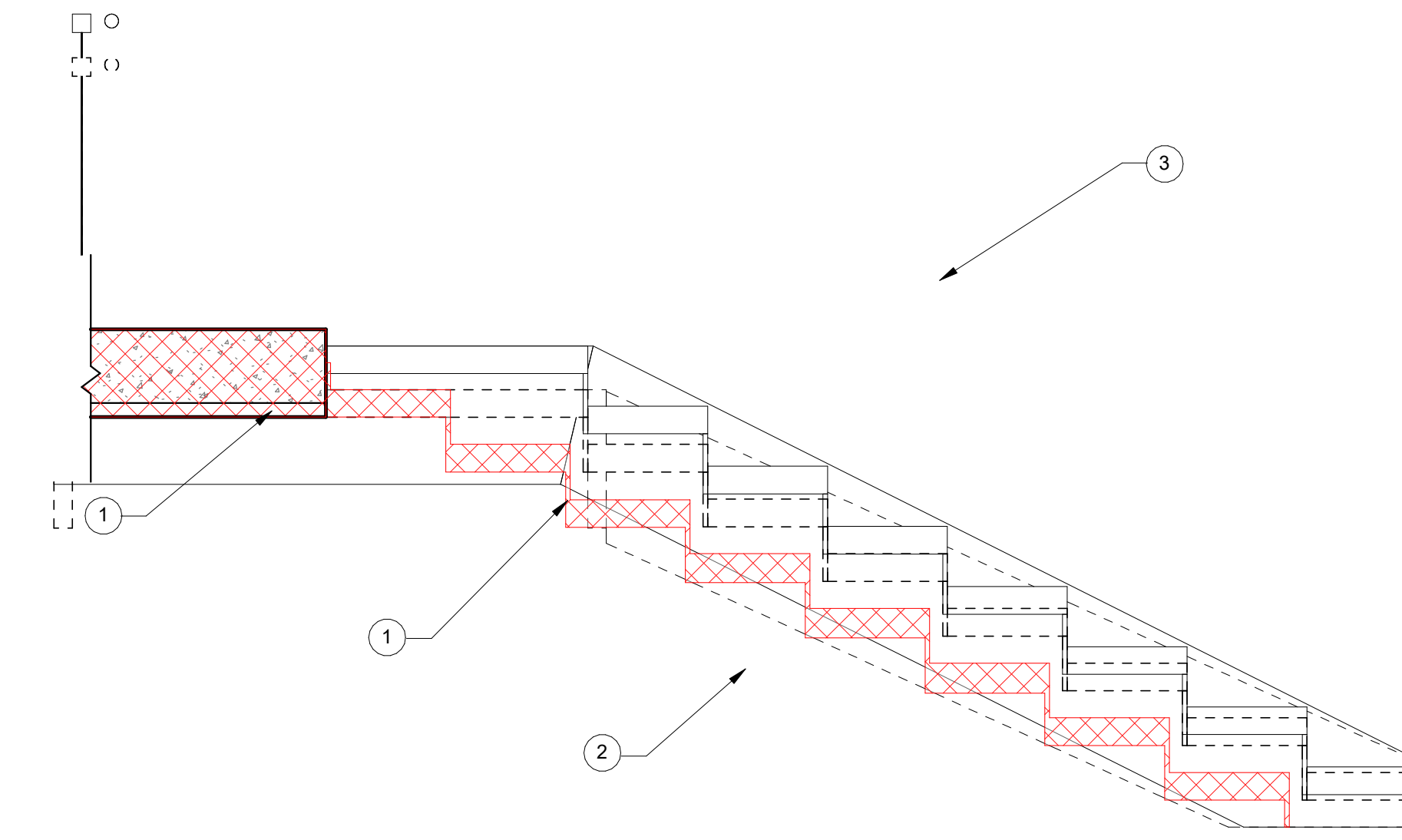
PPA#22-0514
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DEMO PLAN
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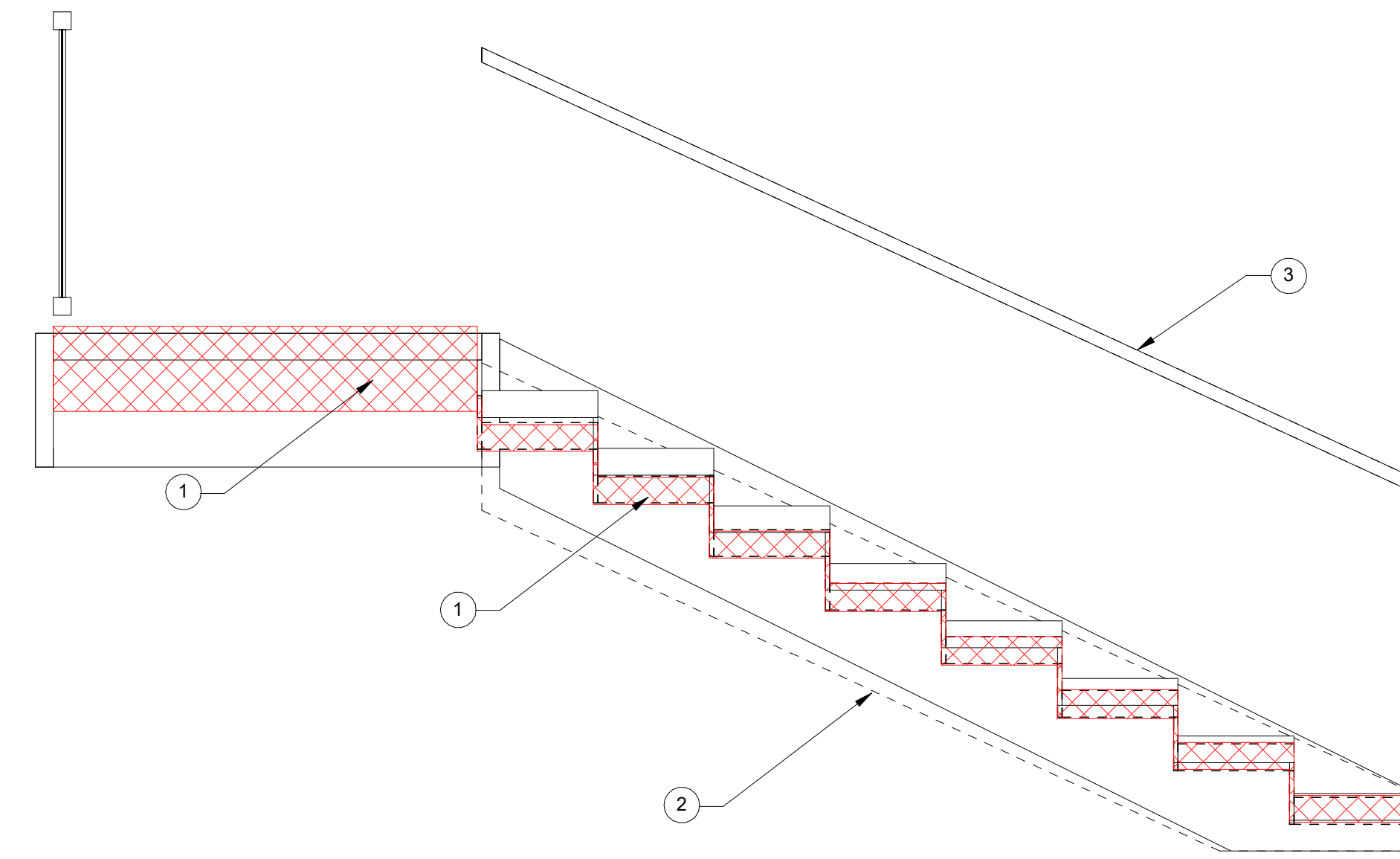
1 STAIR 1 AND 8 DEMO
3/4" = 1'-0"



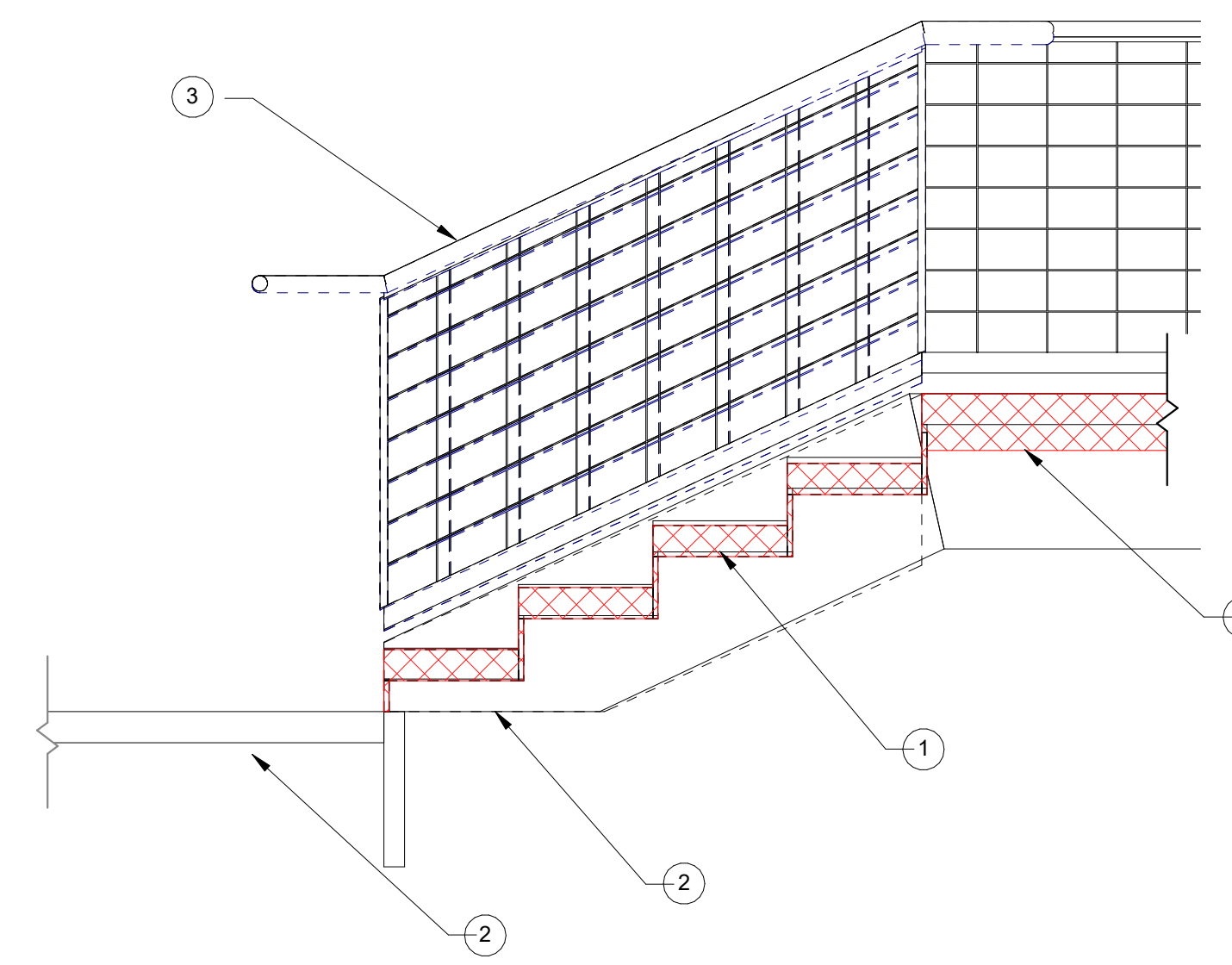
2 STAIR 2 AND 7 DEMO
3/4" = 1'-0"



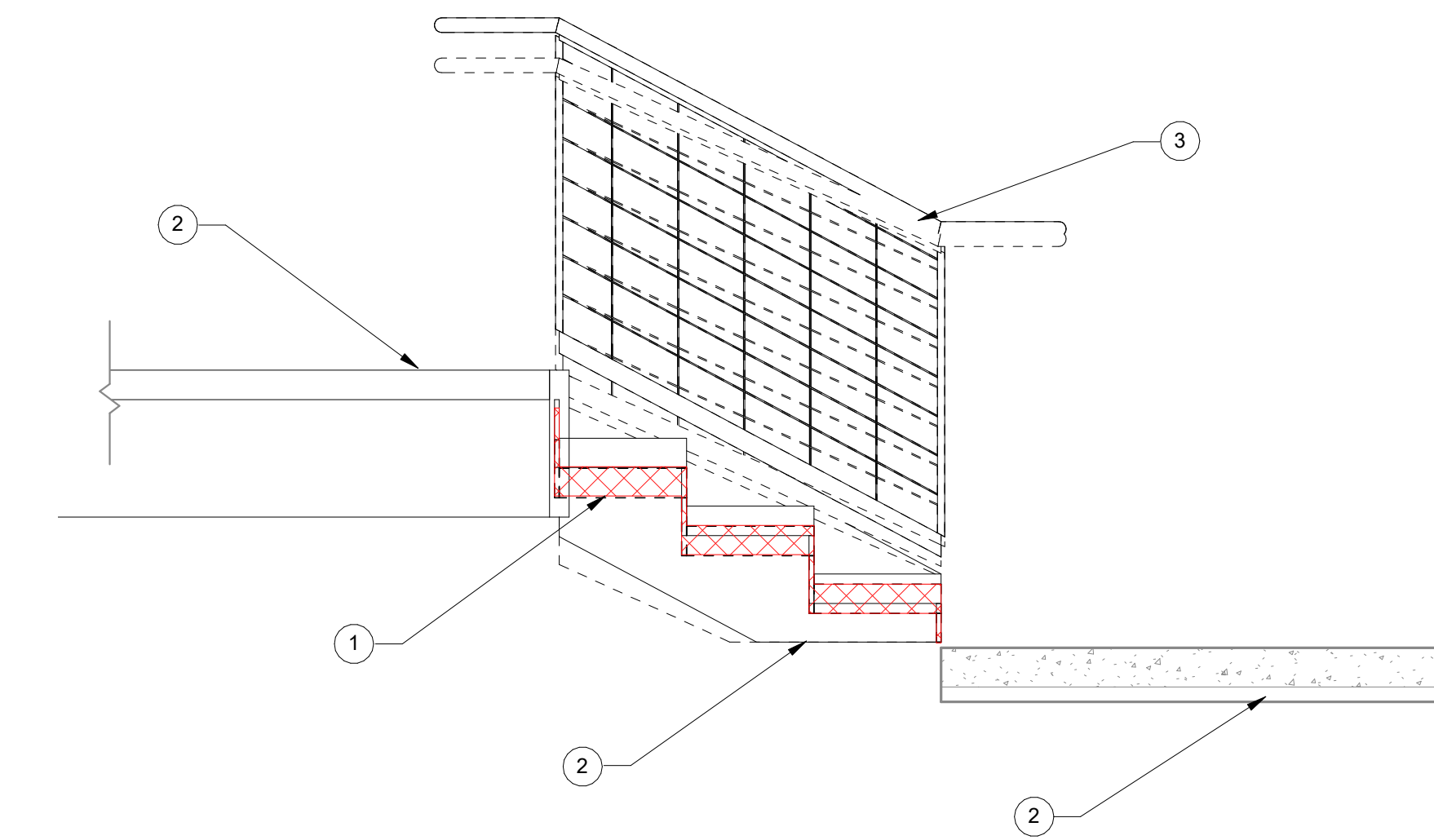
3 STAIR 3 AND 6 DEMO
3/4" = 1'-0"



4 STAIR 9 AND 10 DEMO
3/4" = 1'-0"



5 STAIR 4 AND 5 UPPER STAIR DEMO
3/4" = 1'-0"



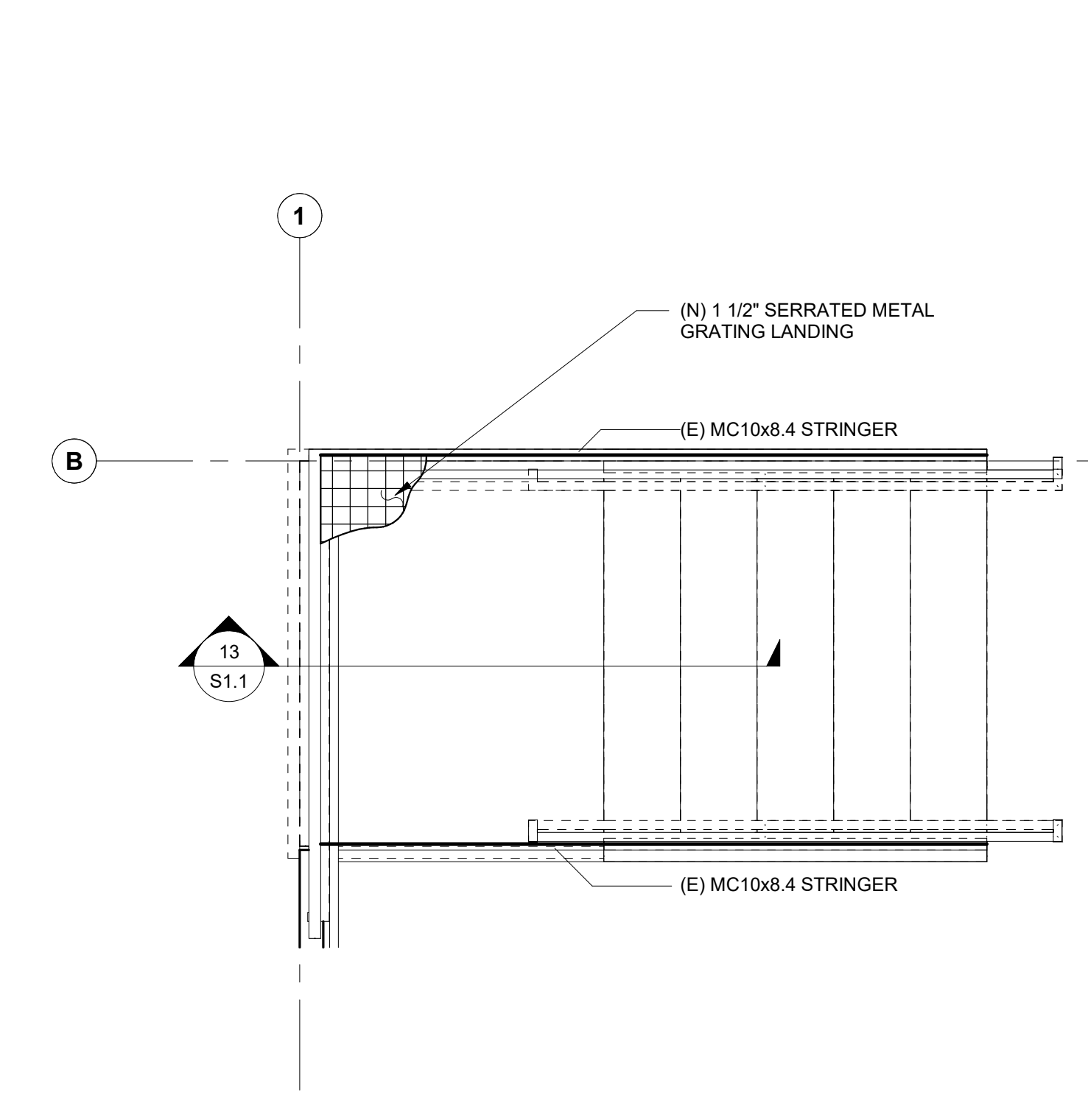
6 STAIR 4 AND 5 LOWER STAIR DEMO
3/4" = 1'-0"

STRUCTURAL DEMOLITION KEY NOTES:

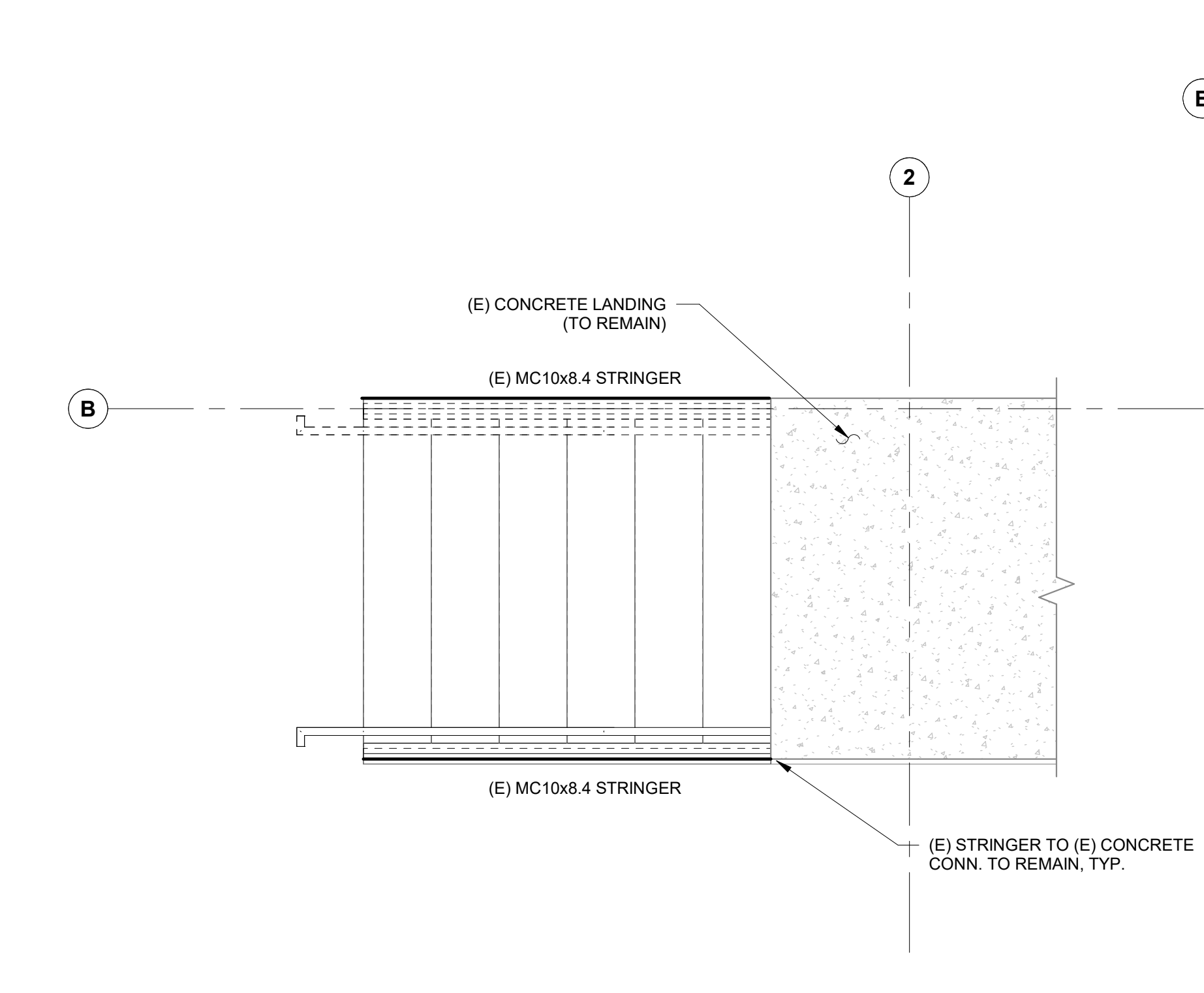
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 - (2) C10X20 STRINGERS AT EA. STAIR
 - C30X STAIR LANDING SUPPORTS
 - THE EXISTING CONCRETE LANDINGS AT STAIRS 2, 7 AND THE MIDDLE AND LOWER LANDINGS AT STAIRS 4 AND 5
- 3 EXISTING HANDRAIL TO REMAIN. PROTECT AND MAINTAIN DURING DEMO PROCEDURES.

KEY PLAN

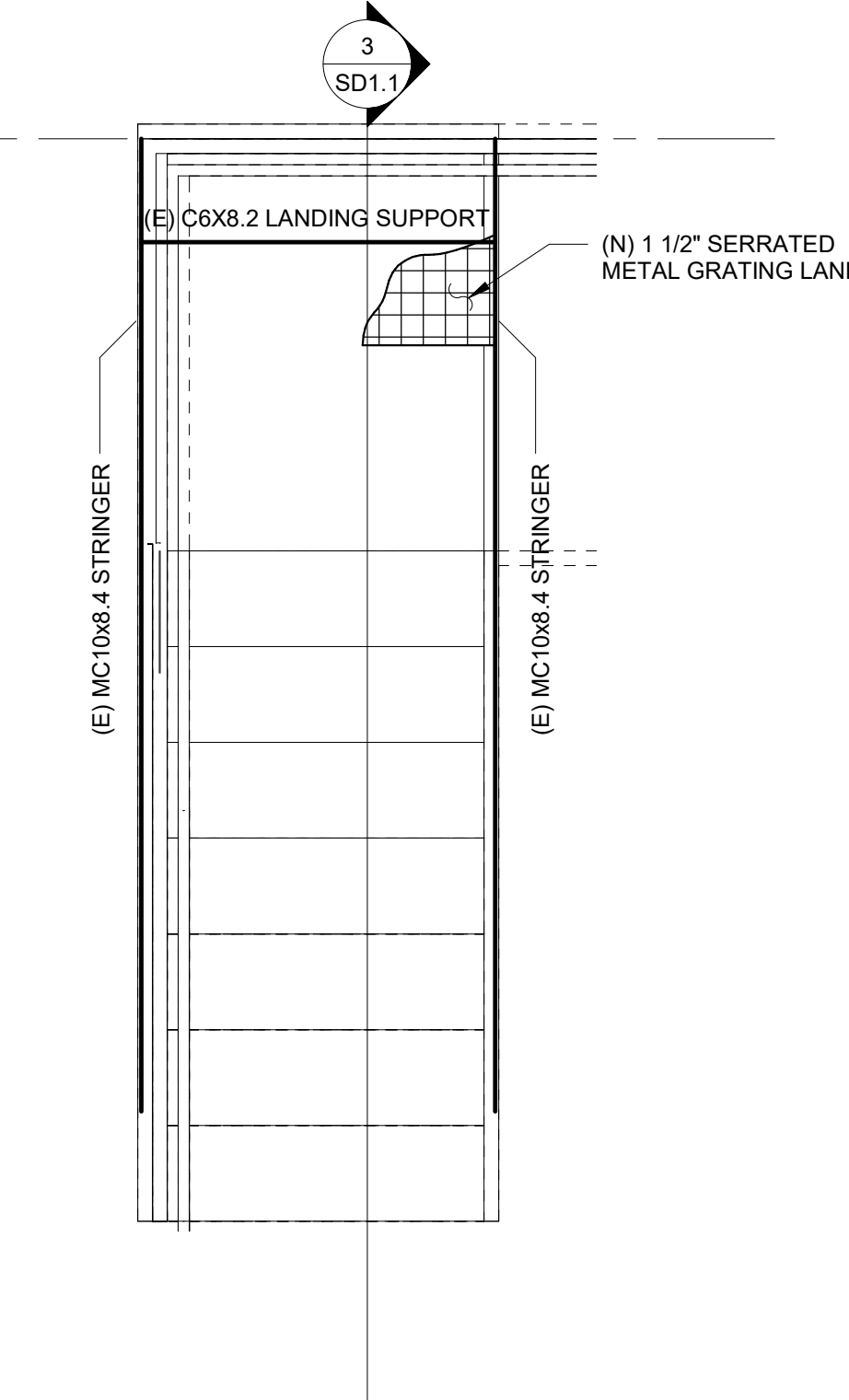
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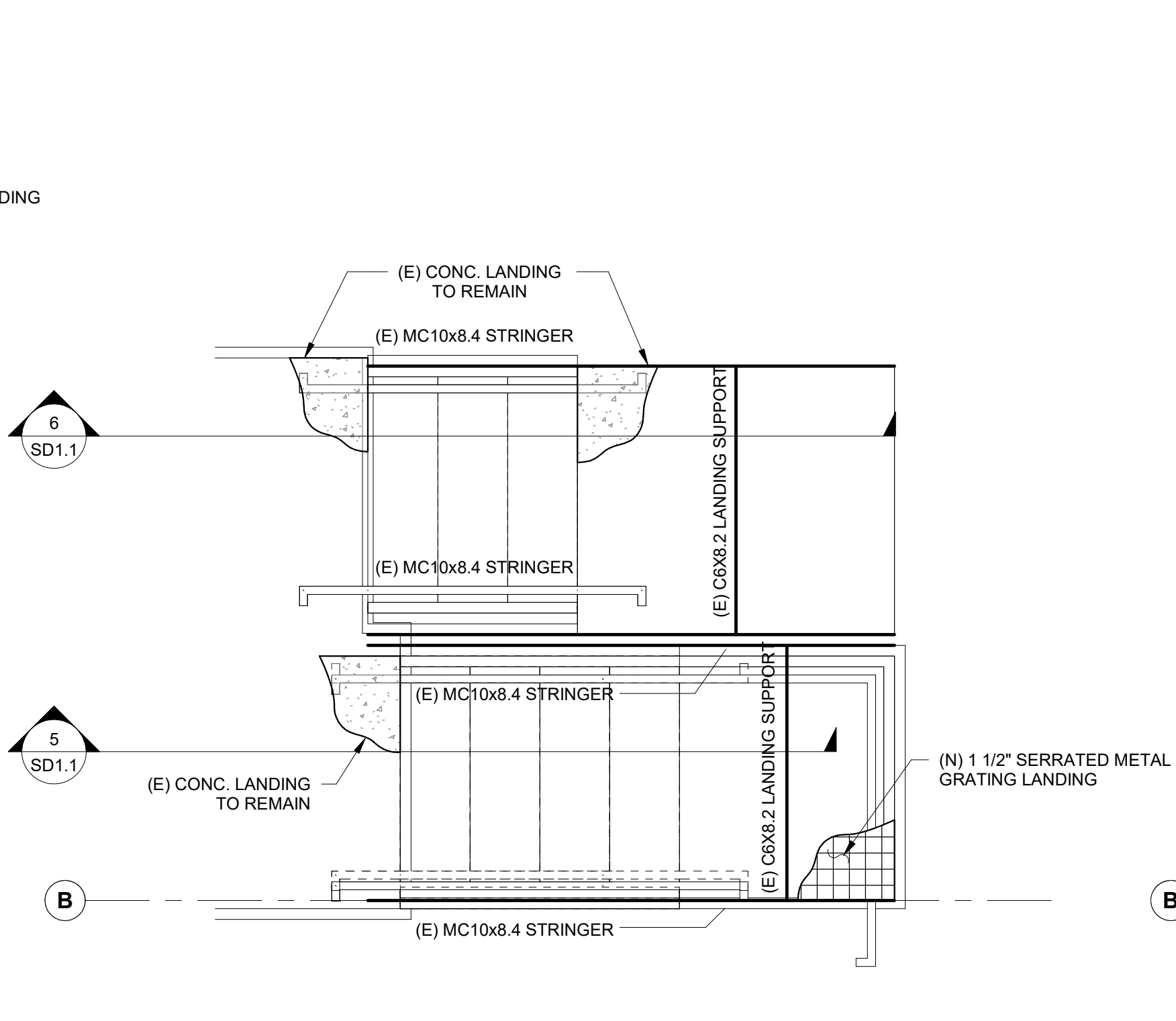
1 ENLARGED PLAN - STAIR 1
1/2" = 1'-0"



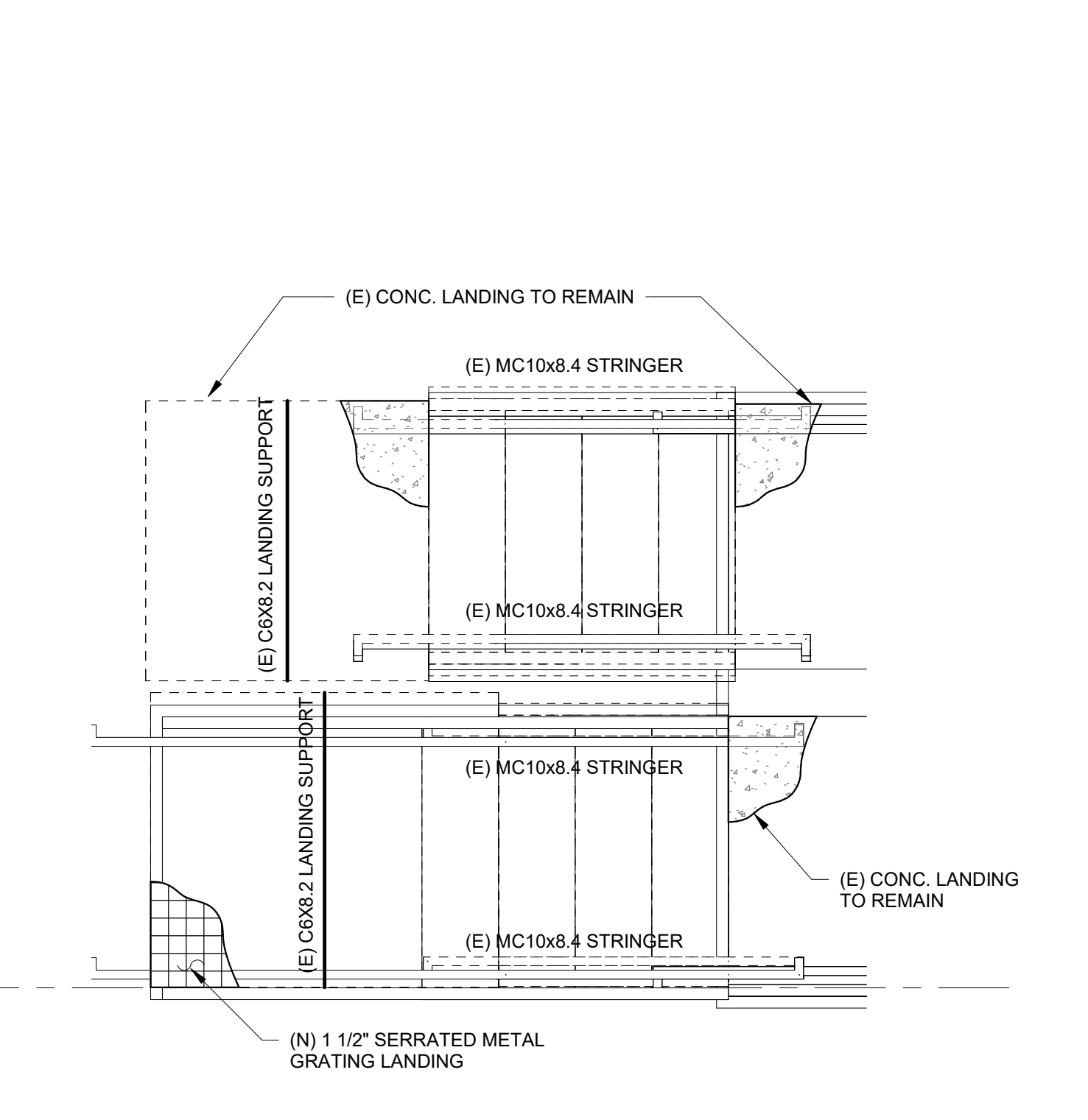
2 ENLARGED PLAN - STAIR 2
1/2" = 1'-0"



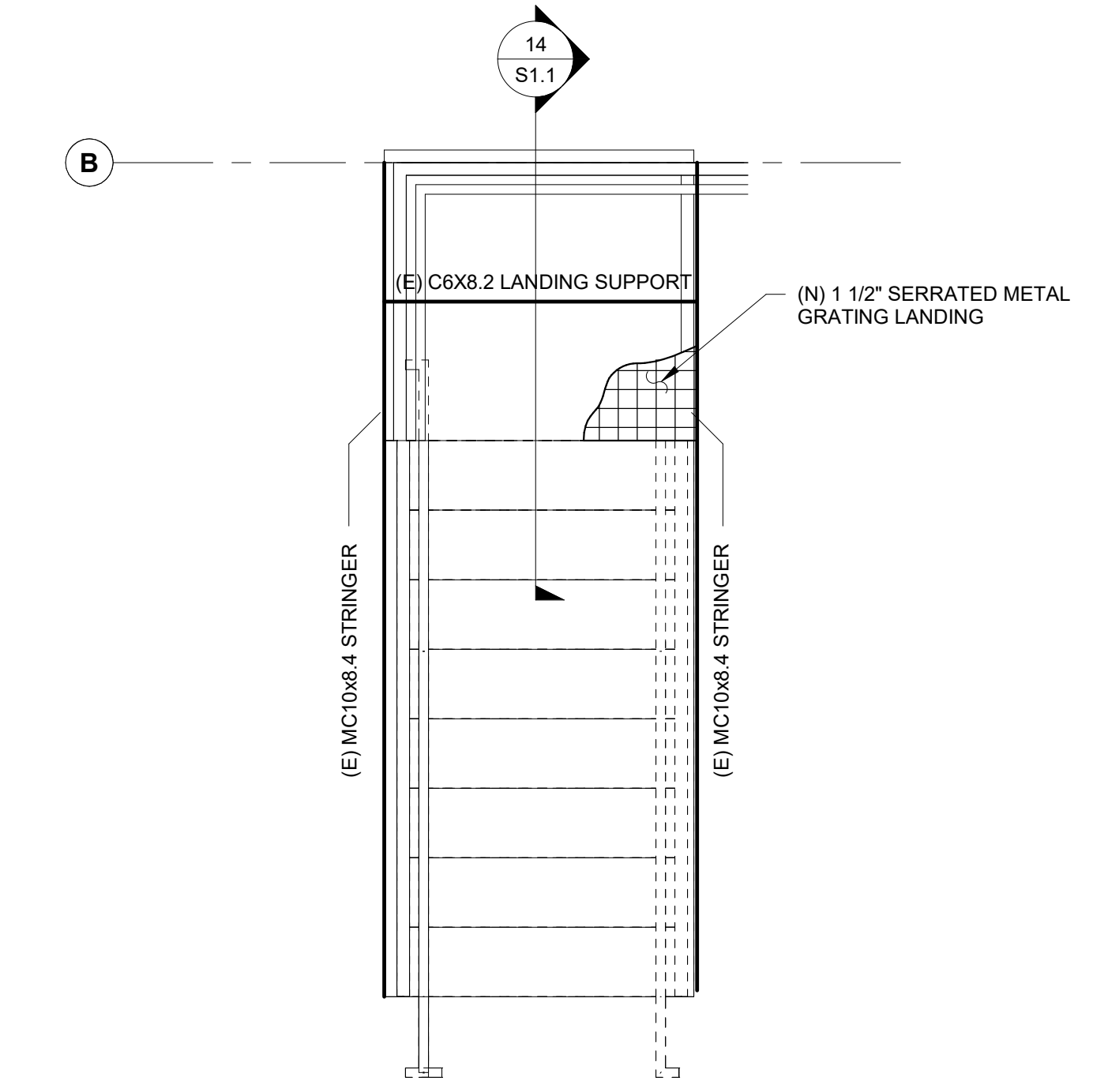
3 ENLARGED PLAN - STAIR 3
1/2" = 1'-0"



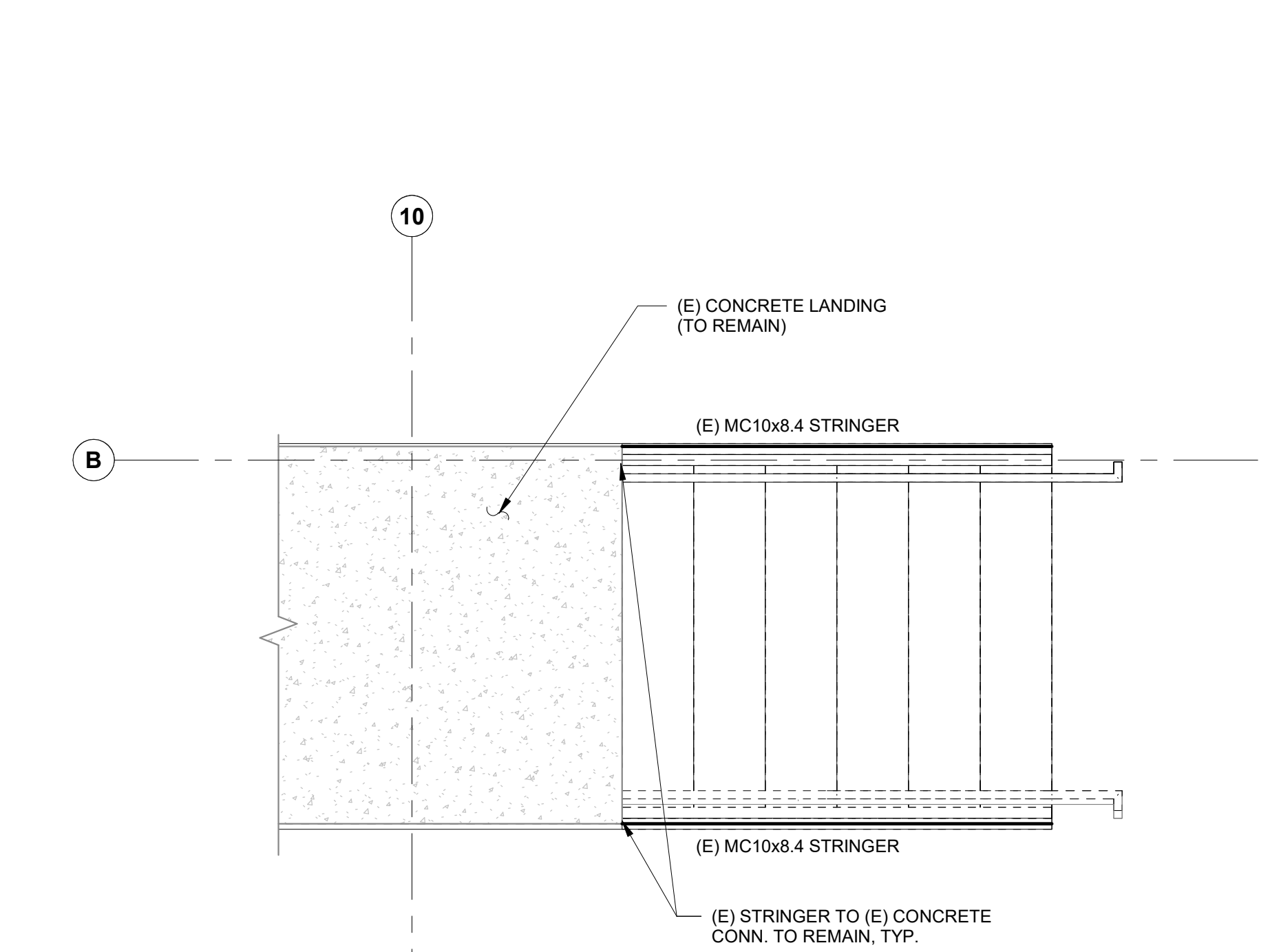
4 ENLARGED PLAN - STAIR 4
1/2" = 1'-0"



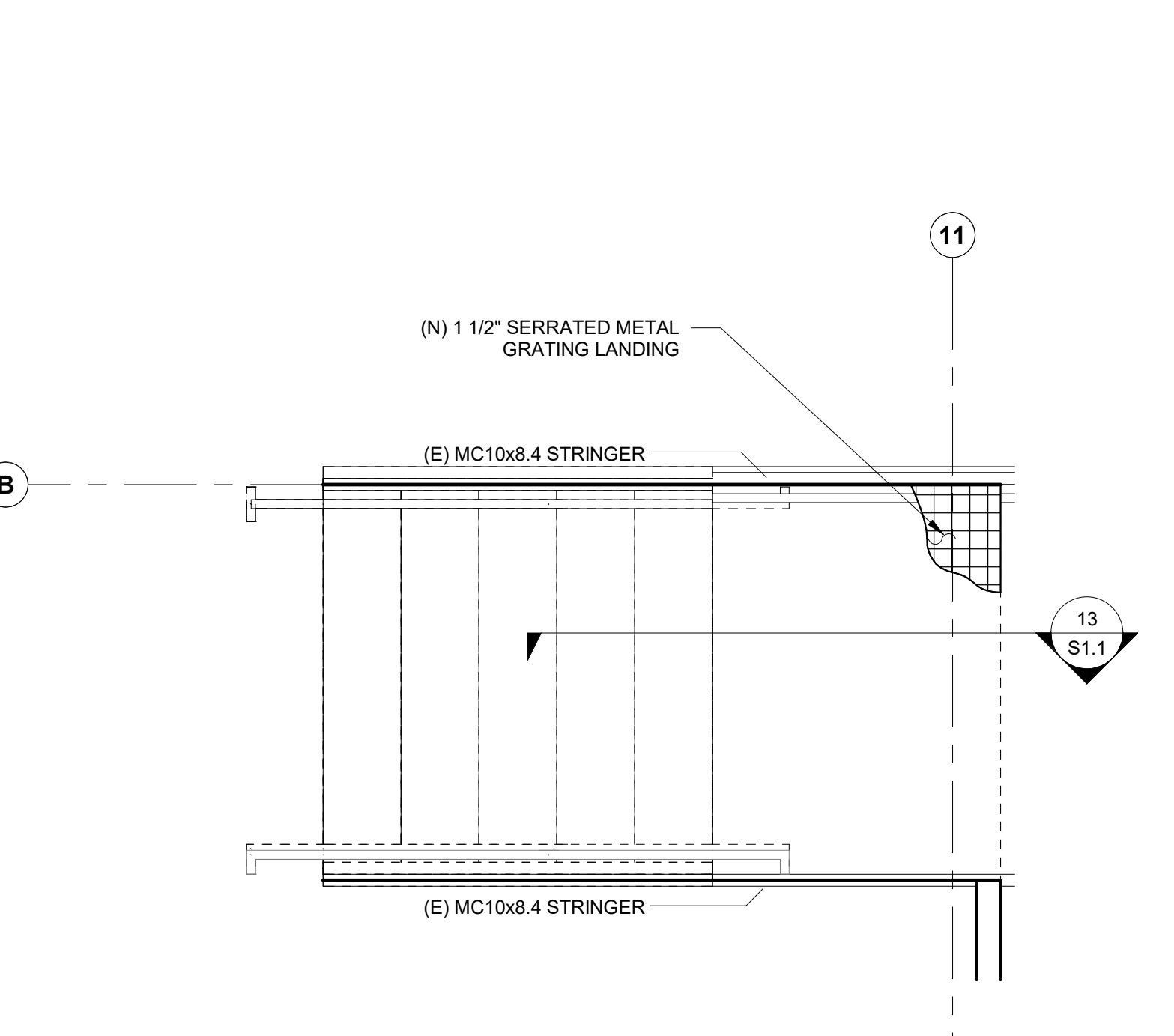
5 ENLARGED PLAN - STAIR 5
1/2" = 1'-0"



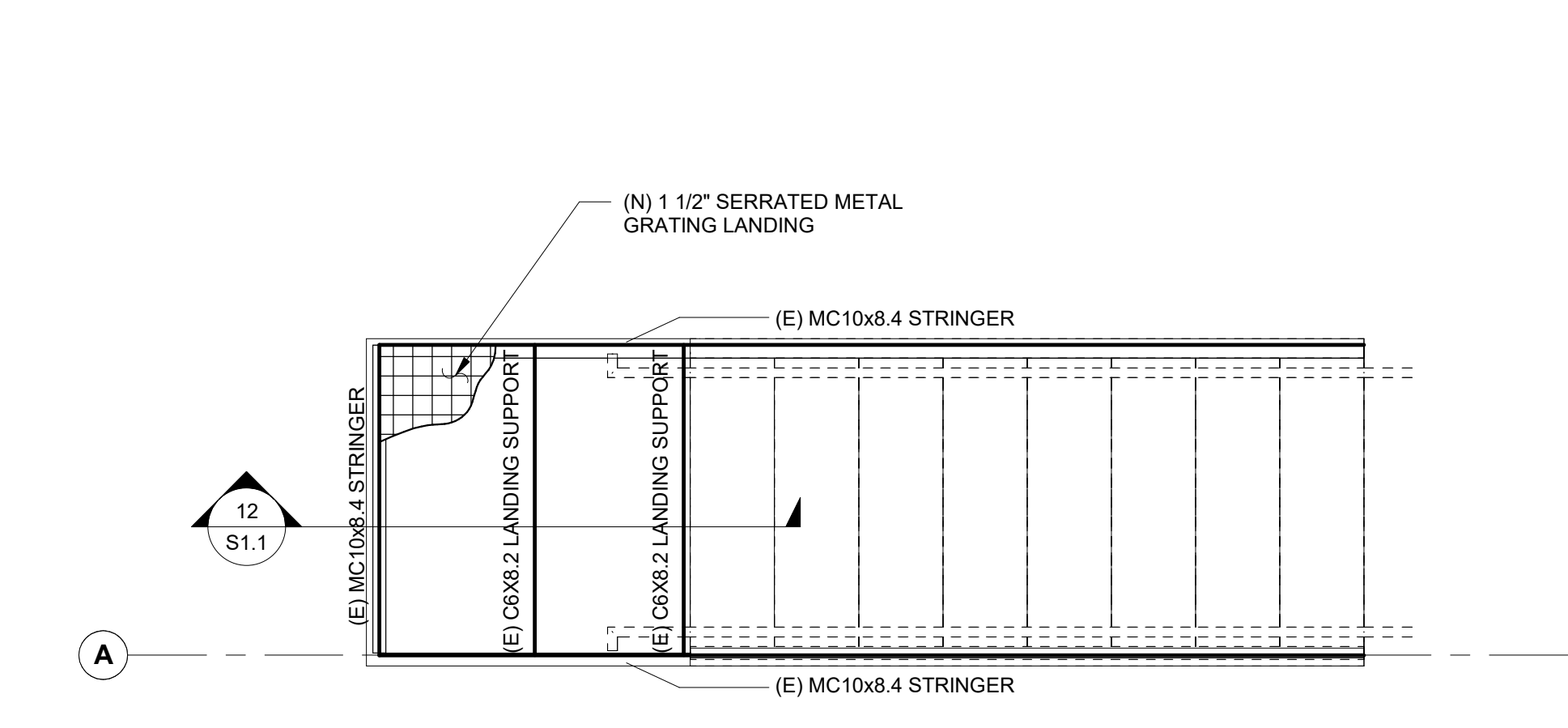
6 ENLARGED PLAN - STAIR 6
1/2" = 1'-0"



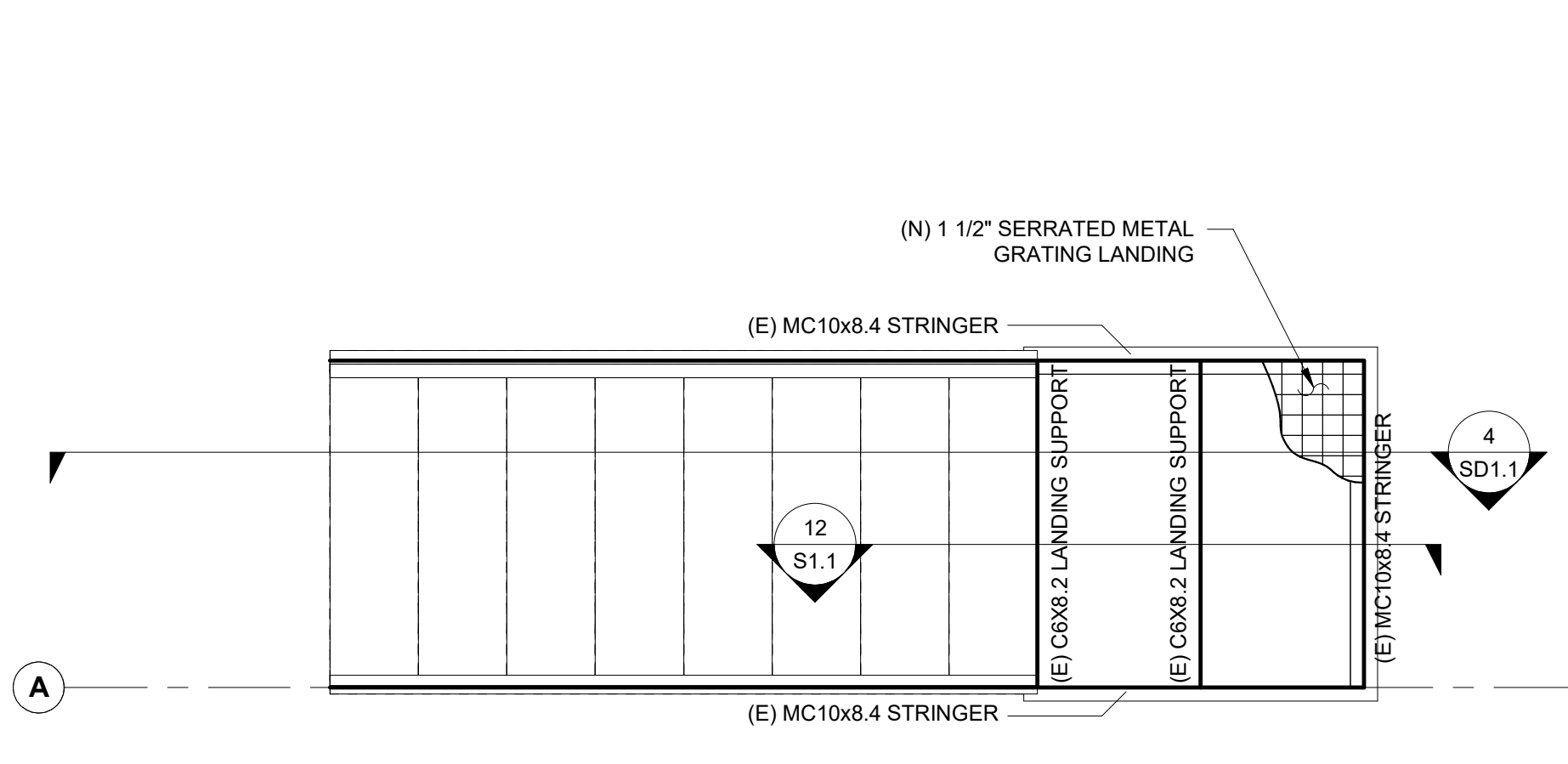
7 ENLARGED PLAN - STAIR 7
1/2" = 1'-0"



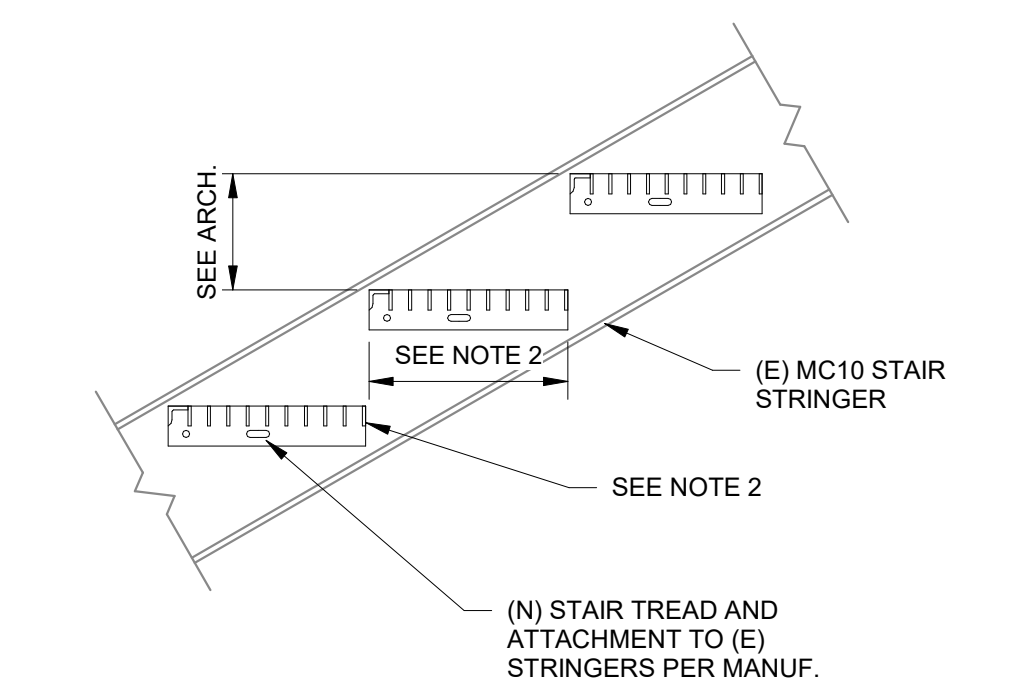
8 ENLARGED PLAN - STAIR 8
1/2" = 1'-0"



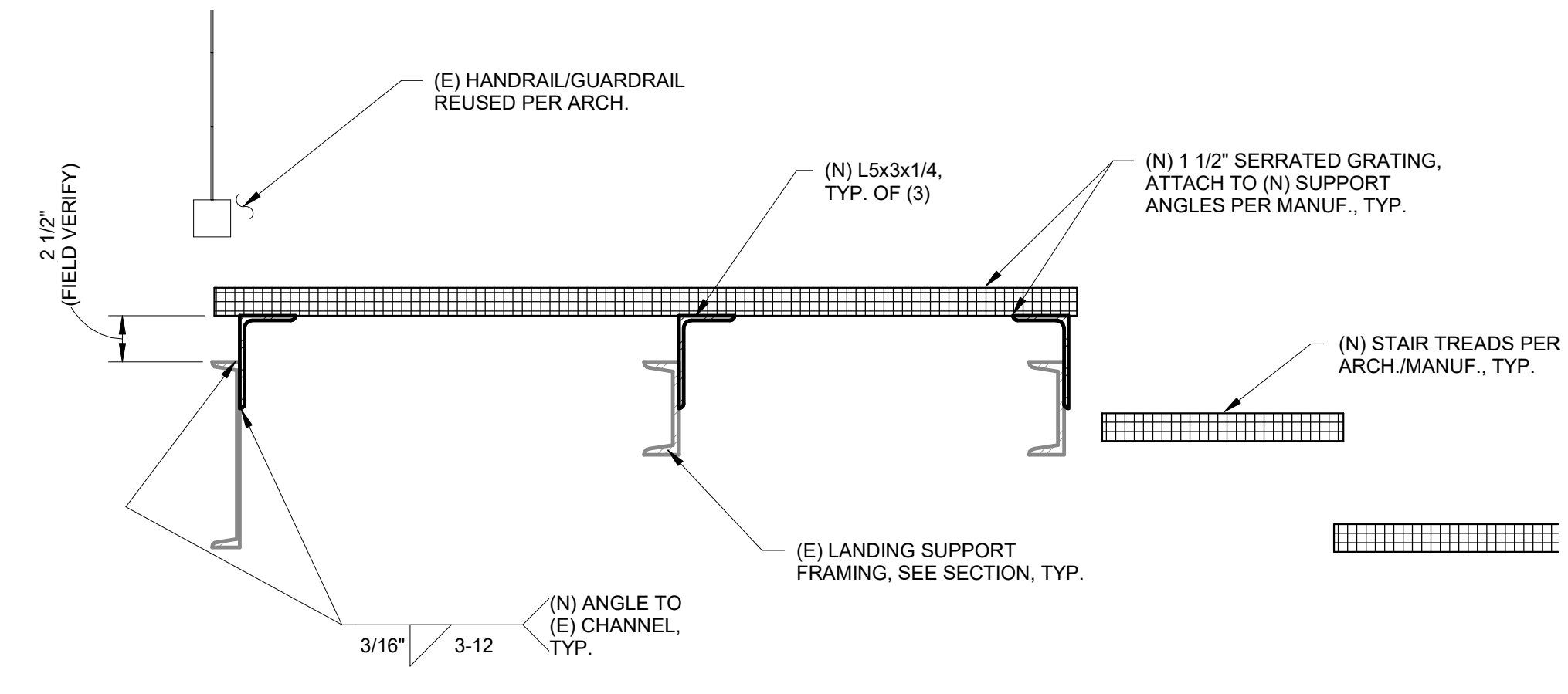
9 ENLARGED PLAN - STAIR 9
1/2" = 1'-0"



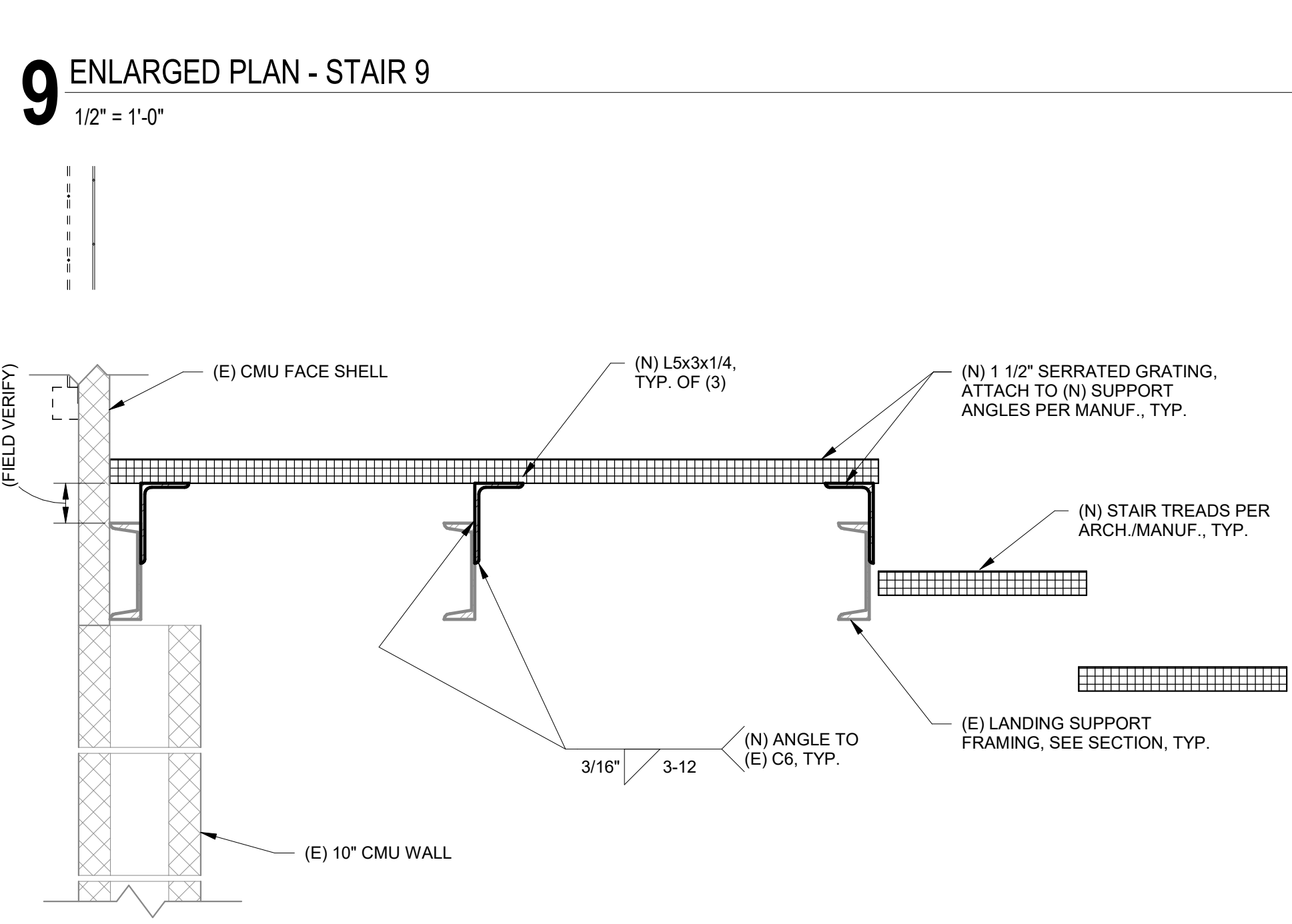
10 ENLARGED PLAN - STAIR 10
1/2" = 1'-0"



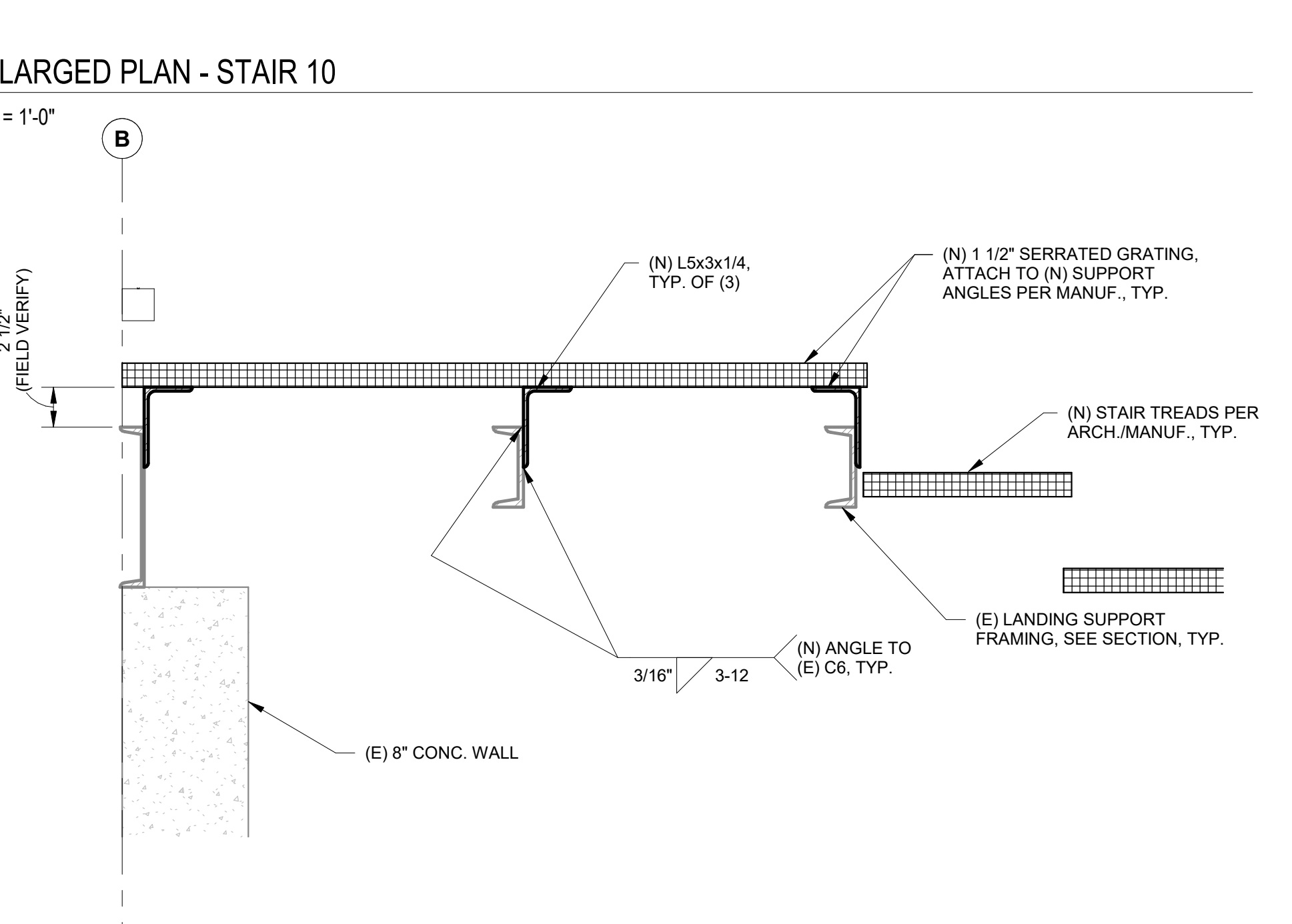
11 (N) STAIR DETAIL
1" = 1'-0"



12 (N) LANDING SUPPORT DETAIL AT STAIRS 9 AND 10
1 1/2" = 1'-0"



13 (N) LANDING SUPPORT DETAIL AT STAIRS 1 AND 8
1 1/2" = 1'-0"



14 (N) LANDING SUPPORT DETAIL AT STAIRS 3 AND 6
1 1/2" = 1'-0"

NOTE:
1. PRIOR TO PLACEMENT OF NEW METAL GRATING STAIRS, REMOVE ALL EXISTING PAINT AND CORROSION FROM STAIR STRINGER SURFACE. REPAIR AND COAT PER ARCH./SPECIFICATIONS.
2. NEW STAIR TREADS TO BE WELDED STEEL GRATING WITH 1 1/2"x3/16" BEARING BARS AT 1" O.C. WITH CROSSBARS AT 4" O.C. GRATING WIDTH TO BE 9 1/16" IN ADDITION TO A 1 1/4" NOSING WIDTH. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY PLAN

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PLAN NOTES:

1. REFER TO THE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
2. REFER TO THE DRAWING ANNOTATIONS & SYMBOLS FOR EXPLANATION OF DRAWING CONVENTIONS.
3. FIELD VERIFY ALL DIMENSIONS. DO NOT SCALE DRAWINGS.
4. REFER TO ARCH. AND THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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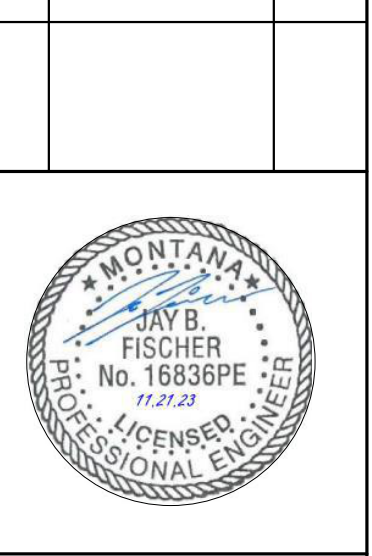
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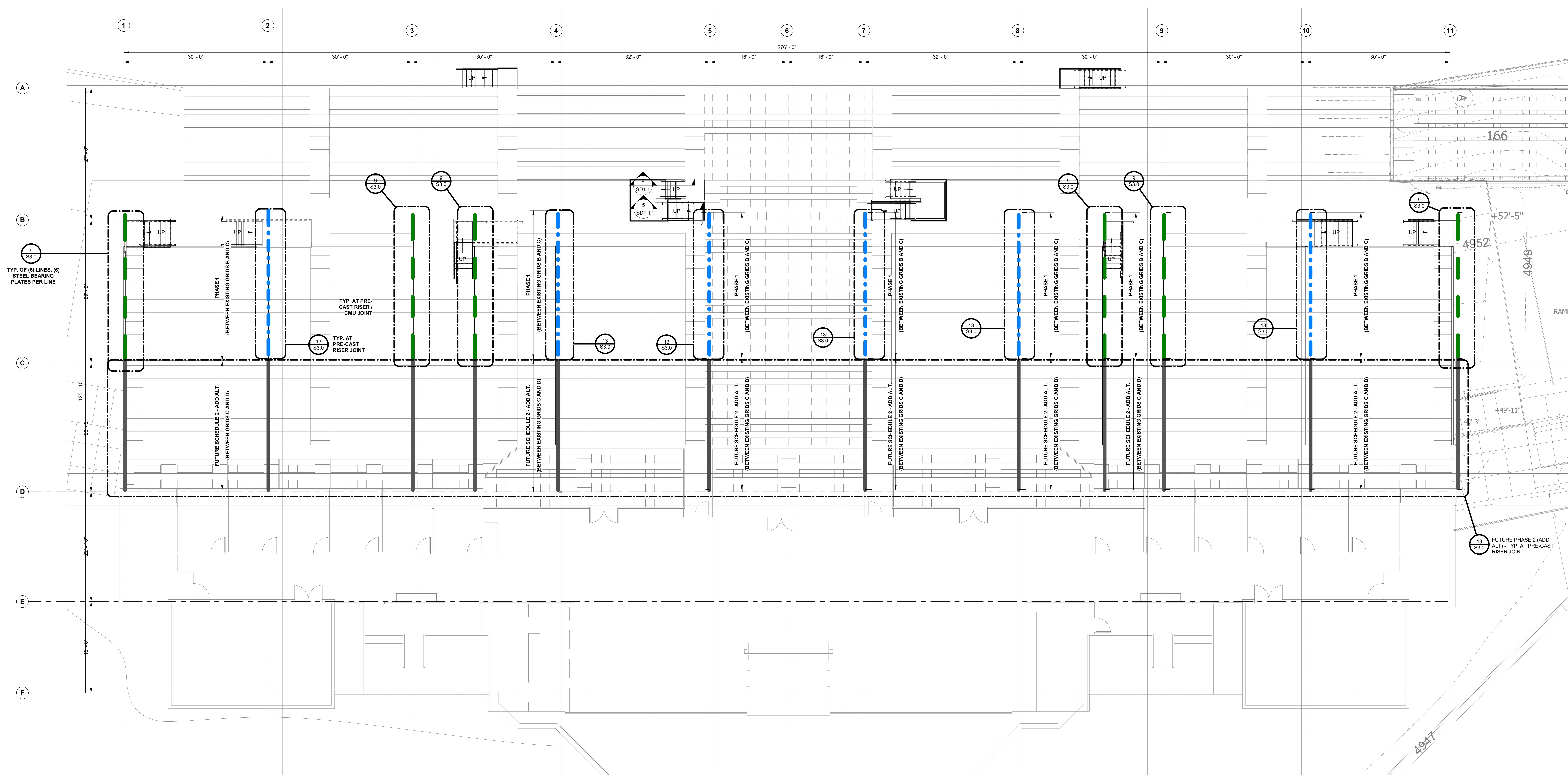
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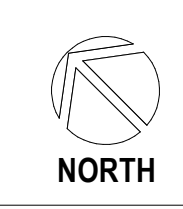
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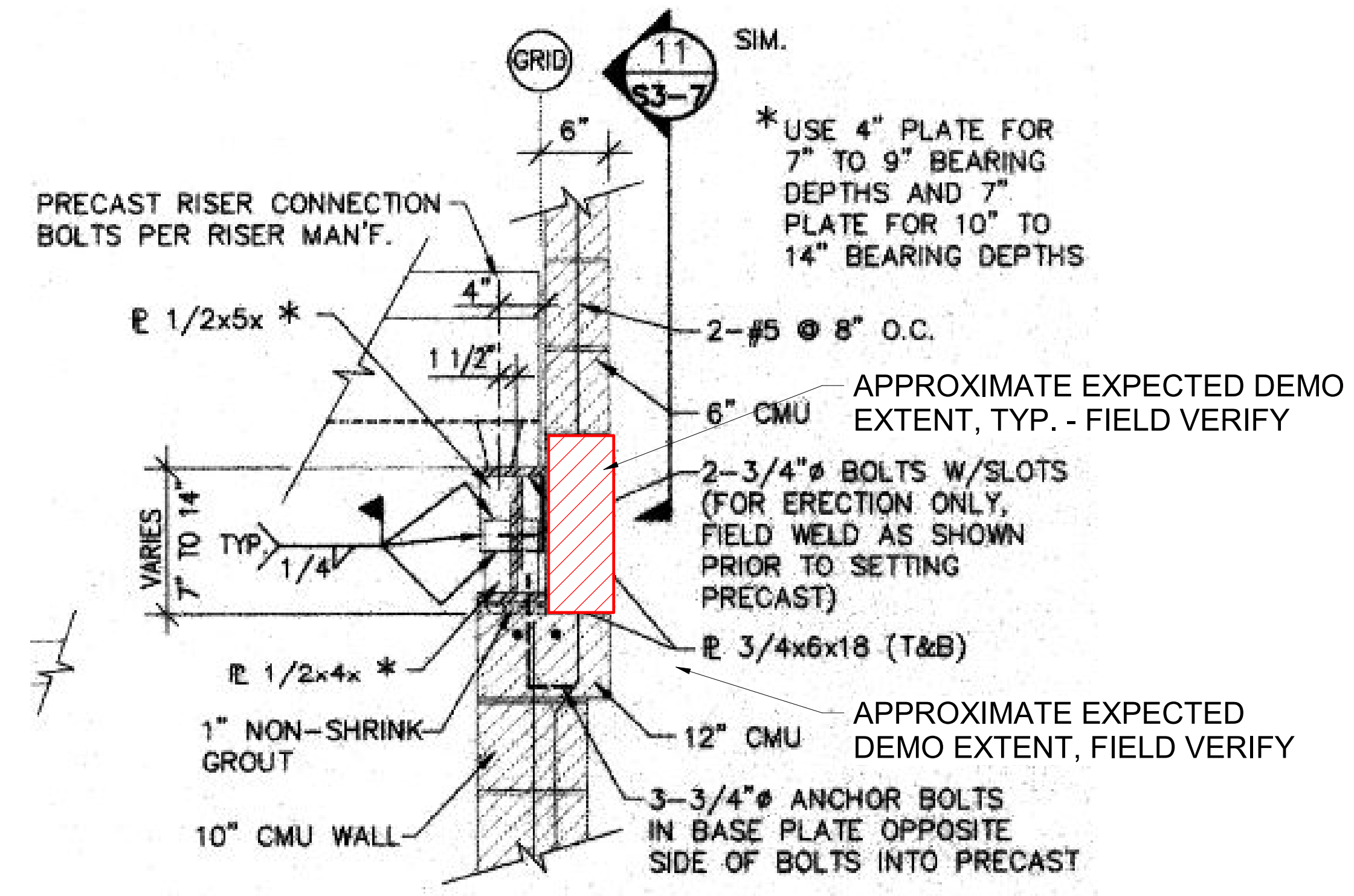


13 EXISTING WEST SIDE BLEACHER PLAN
1/8" = 1'-0"

KEY PLAN

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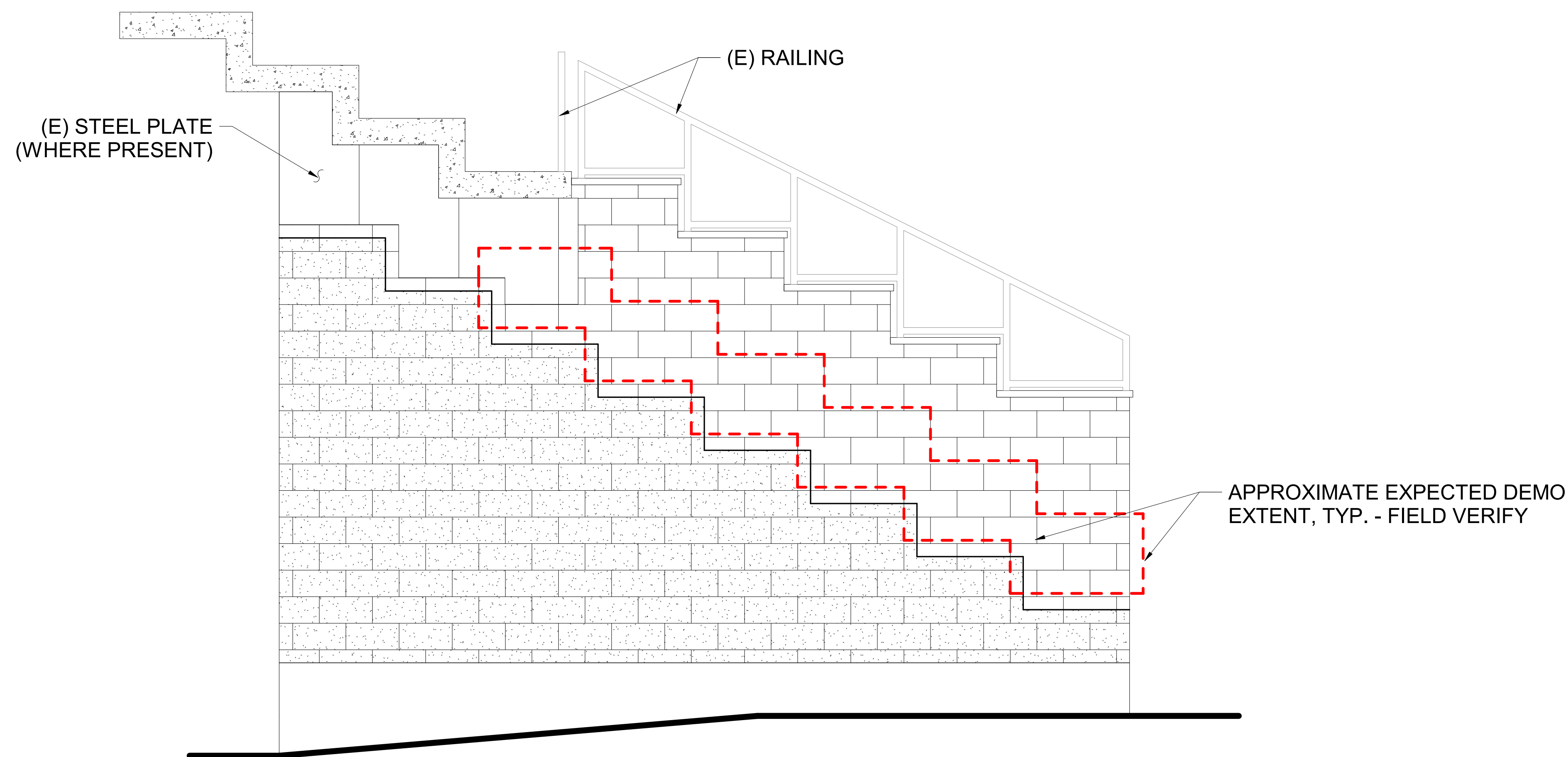




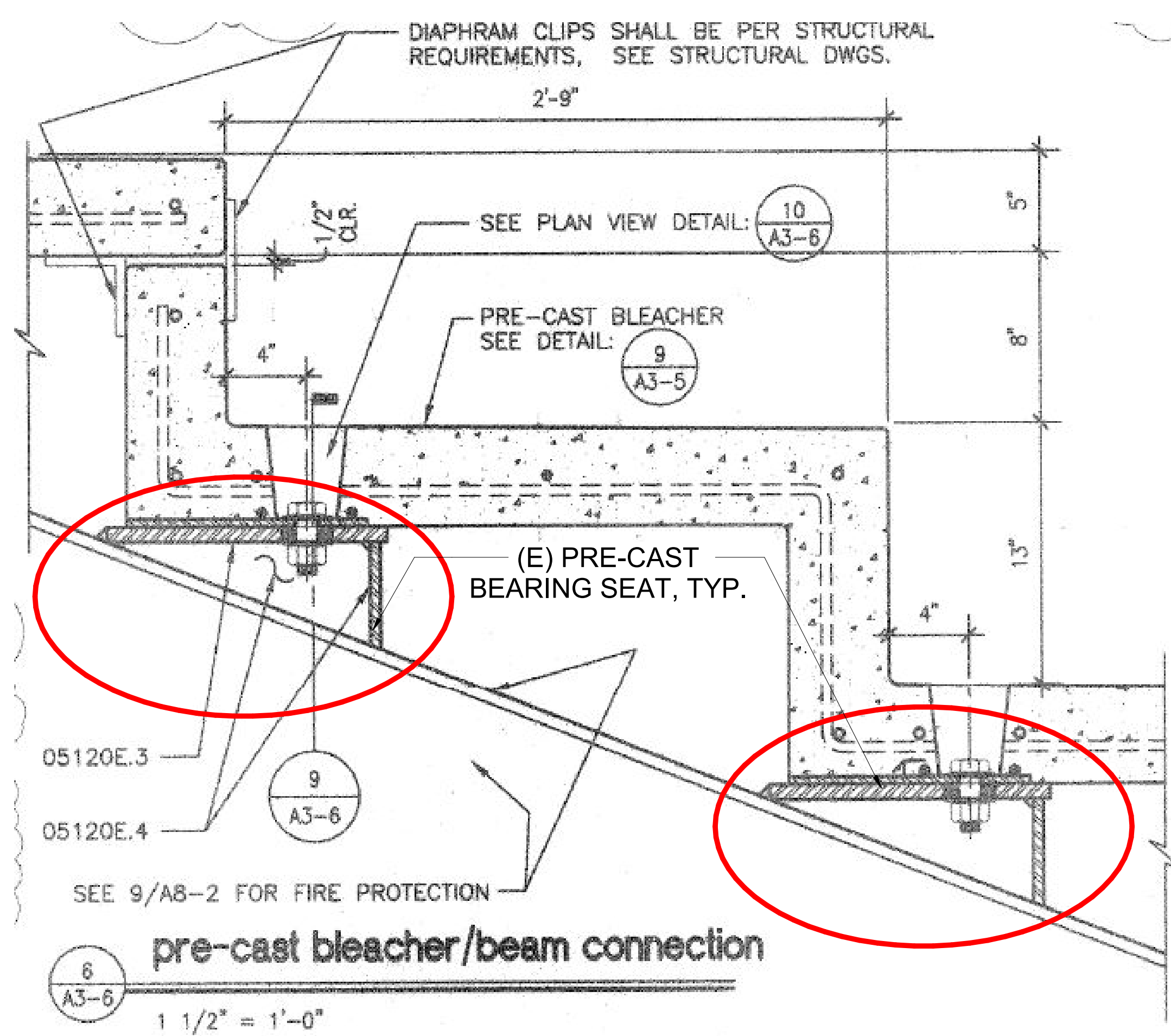
CMU AND STEEL PLATE:

1. VERIFY FACE SHELL VS. FULL CMU CLADDING PER (E) DETAIL 12/S3-7.
2. REMOVE CMU AND/OR STEEL PLATE TO PROVIDE ACCESS TO PRE-CAST STEEL BEARING SEAT. (3) THREE COURSE DEMO EXPECTED, FIELD VERIFY.
3. ALLOW ROOM TO ADEQUATELY VERIFY WELDS ON THE CONCOURSE SIDE AND TO PRIME AND PAINT BEARING SEAT.
4. PROVIDE SHORING OF (E) CMU AND HANDRAIL AS NEEDED.
5. VERIFY WELD OF BEARING SEAT PER (E) DETAIL 12/S3-7.
6. IF WELD(S) ARE ACCEPTABLE - PREPARE SEAT FOR PRIME AND PAINT PER SPECIFICATIONS.
7. PROVIDE WELD TO MEET THE INTENT OF THE (E) DETAIL 12/S3-7. IF THE WELDS ARE NOT APPROVED.
8. ONCE ALL WELD(S) HAVE BEEN APPROVED - PROCEED TO PREPARE SEAT FOR PRIME AND PAINT PER SPECIFICATIONS.
8. ONCE ALL PAINT IS COMPLETE REPLACE CMU AND/OR STEEL PLATE TO MATCH THE EXISTING CONDITION.
9. PAINT NEW CMU AND STEEL PLATE WITH PAINT SYSTEM AS NOTED IN THE SPECIFICATIONS.

12 DETAIL
S3-7 RISER CONNECTION @ 10" CMU WALL
 SCALE: 3/4" = 1'-0"



9 CMU AND STEEL PLATE
 1 1/2" = 1'-0"



JOINING BETWEEN PRE-CAST RISER PANELS:

1. REMOVE ALL (E) JOINTING BETWEEN PRE-CAST RISERS PANELS ON THE FLAT AND VERTICAL SURFACES, AS INDICATED IN THE PLANS
2. HORIZONTAL JOINTING (RUNNING N/S) DOES NOT NEED TO BE REMOVED
3. REPLACE JOINTING REMOVED WITH APPROVED JOINTING MATERIAL PER SPECIFICATIONS.
4. JOINT REPLACEMENTS THIS PHASE AND SCHEDULE SHALL INCLUDE ALL JOINTS BETWEEN GRIDS B AND C.
5. PAINT (E) PRE-CAST RISER BEARING SEATS AS SHOWN IN (E) DETAIL 6/A3-6 WITH PAINT SYSTEM AS NOTED IN THE SPECIFICATIONS. FIREPROOFING IS NOT REQUIRED FOR PRE-CAST BEARING SUPPORTS.

13 JOINING BETWEEN PRE-CAST RISER PANELS:
 1 1/2" = 1'-0"

KEY PLAN

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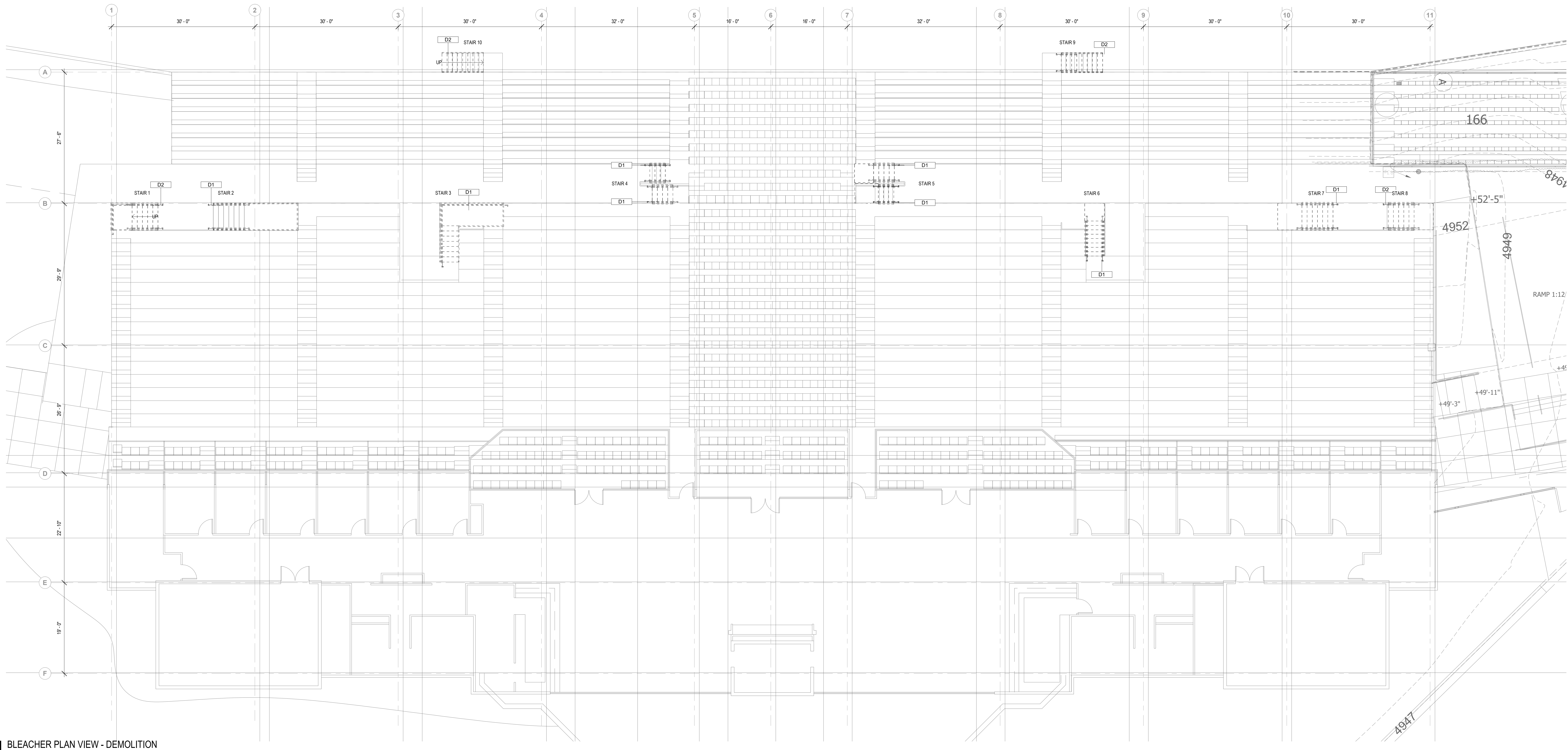
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1 BLEACHER PLAN VIEW - DEMOLITION
1/8" = 1'-0"

DEMOLITION NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SCOPE OF WORK.
- THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF THE ITEMS AND AREAS REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL QUANTITIES AND LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLETE THE SCOPE OF WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED, UNLESS SPECIFICALLY SCHEDULED FOR REUSE. DEMOLISHED MATERIALS SHALL BECOME THE POSSESSION OF THE CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE SITE.
- REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MANNER AT NO ADDITIONAL EXPENSE TO OWNER.
- DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCUMULATE WITHIN THE BUILDING OR ON THE SITE.
- REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR DANGEROUS MATERIALS ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO ENDANGER HEALTH OF WORKERS AND PUBLIC.
- BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
- CLEAN-UP MUST MEET GOVERNING DUST CONTROL CODES.
- NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
- PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
- CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIENCE TO ANY ADJACENT OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMAL INTERFERENCE TO PUBLIC OR PRIVATE ACCESS. MAINTAIN PROTECTED CORES AND ACCESS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUCTION SEPARATION WALLS AS REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, AND OTHER HAZARDS THAT MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
- PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH SAWS AND CORE DRILLS. DO NOT USE JACKHAMMERS EXCEPT WHERE PERMITTED BY OWNER.
- BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 FEET IN ANY DIMENSION.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE EXISTING STRUCTURAL ELEMENTS REMAIN UNHARMED THROUGHOUT CONSTRUCTION, UNLESS SPECIFICALLY NOTED ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AND PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, AND TO COORDINATE WITH STRUCTURAL ENGINEER AS REQUIRED.
- ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. CONTRACTOR TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINTAIN BUSINESS OPERATIONS.
- SEE ENGINEERING DRAWINGS FOR DUCTWORK, OFFUSER, PLENUM BOX, ETC. DEMOLITION AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER.
- FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKING ON THE JOB. ALL FIRE STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND OPERABLE AT ALL TIMES. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT THE EQUIPMENT. IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGER OF DAMAGED OR DISABLED SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIATELY. RELOCATION OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIPMENT, NECESSITATED BY NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIORITY, AND PER THE PLAN.
- IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY STOP WORK IF HAZARDOUS MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENTATIVE.
- REMOVAL OF ANY EQUIPMENT, CABLES, SWITCHES, AND CONDUIT PERTAINING TO DATA COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WITH TELEPHONE COMPANIES, SERVICE OWNER OR TENANT DATA COMMUNICATIONS REPRESENTATIVE AS REQUIRED TO PREVENT NEW CONSTRUCTION DELAYS.
- PROVIDE FOR FIRE PROOFING REPAIRS REQUIRED AT STRUCTURAL STEEL, TO THE ORIGINAL RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE PROOFING. REPAIR ANY DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM TO THEIR ORIGINAL LISTING REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARATION AS ORIGINALLY DESIGNED.
- AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREAS SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND UNDESIRABLE MATERIAL SHALL BE REMOVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR REPAIRING ANY DAMAGE CAUSED BY HIM OR HIS SUBCONTRACTORS. REPAIR TO MATCH EXISTING ADJACENT FINISH OR AS NOTED HEREIN.
- FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS REQUIRED. ALL SURFACES, EQUIPMENT, FIXTURES AND HANGINGS CALLING DEMOLITION AND/OR CONSTRUCTION.
- PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIPING AND INFORM OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CONTRACT DRAWINGS. DEMO DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND OPTIMUM BOARD, DEMO CONDUITS AND RECEPTACLES. REFERENCE ELECTRICAL DEMO PLAN FOR ADDITIONAL INFORMATION.

DEMOLITION LEGEND

- HATCH INDICATES AREA NOT IN SCOPE OF WORK
- INDICATES BUILT ITEM TO BE REMOVED

KEYNOTES

- D1 REMOVE AND REPLACE CONCRETE PAN STAIRS WITH SERRATED GRATE TREAD, CONCRETE LANDING TO REMAIN. REF. STRUCTURAL DRAWINGS.
- D2 REMOVE AND REPLACE CONCRETE PAN STAIRS WITH SERRATED GRATE TREAD, REMOVE AND REPLACE LANDING WITH SERRATED GRATING. REF. STRUCTURAL DRAWINGS.

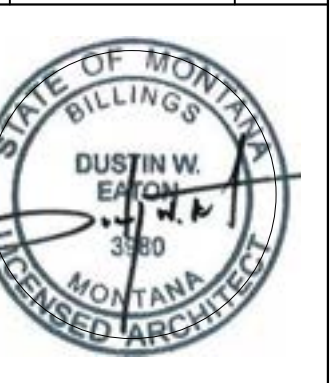


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0747.080
SHEET TITLE
DEMOLITION
PLAN
SHEET
D1.0

DATE
11/21/2023

KEYNOTES

- 01-01 REMOVE SEALANT FROM CONCRETE JOINTS IN THEIR ENTIRETY. PREP SURFACE AND INSTALL NEW SEALANT PER MANUFACTURER REQUIREMENTS. SEE SPECIFICATIONS.
- 01-02 SEE STRUCTURAL FOR EXTENT OF CMU TO BE REMOVED AND REPLACED. PAINT TO MATCH EXISTING BOBCAT BLUE.
- 01-03 PROTECT EXISTING RAILINGS AND PARAPET CAP DURING CONSTRUCTION.
- 01-04 REMOVE EXISTING SHEET METAL COVERS AS REQUIRED TO ACCESS BEAM SEATS.
- 01-05 PROTECT EXISTING SEATS DURING REMOVAL AND REPLACEMENT OF SEALANT.
- 01-06 HORIZONTAL JOINTS NOT IN SCOPE.

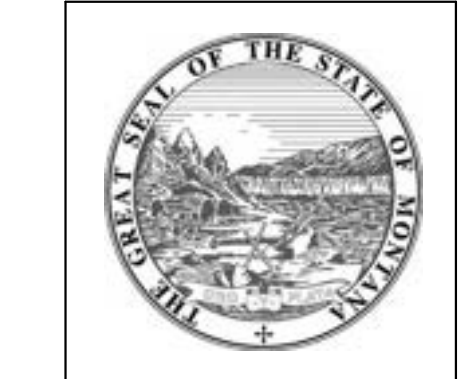
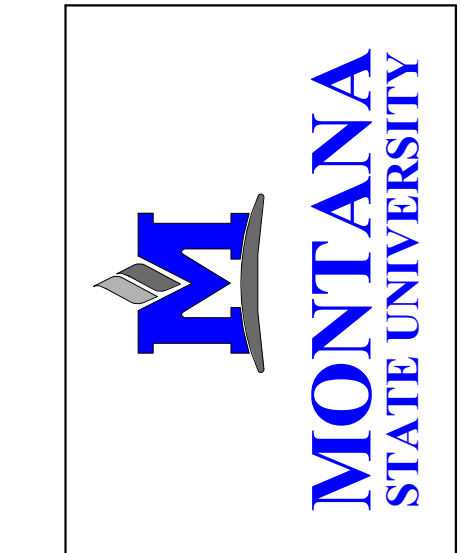
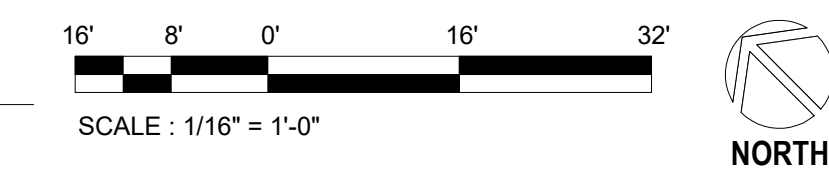
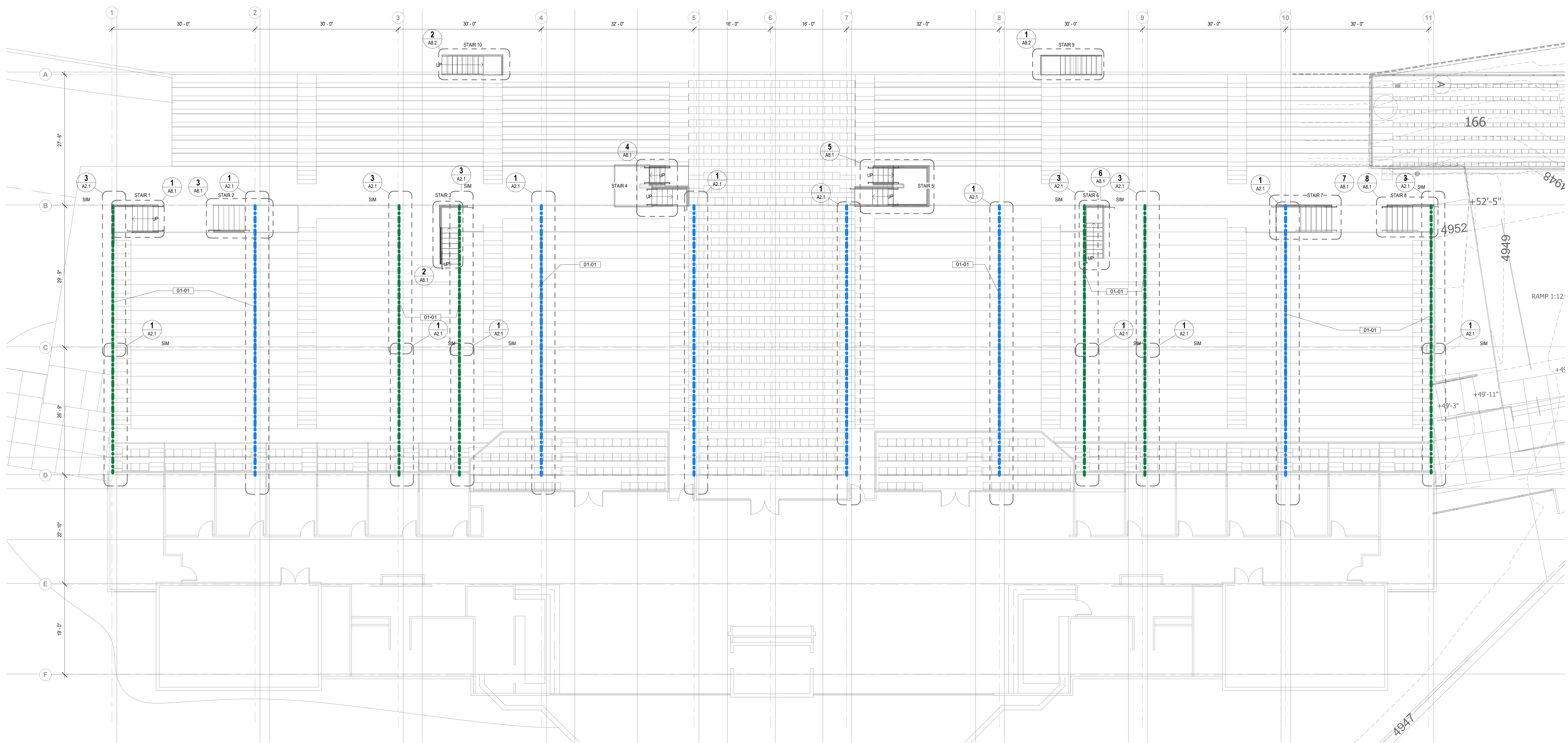
FLOOR PLAN NOTES

- 1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION. ALL INFORMATION REGARDING EXISTING CONDITIONS IS BASED UPON OWNER-SUPPLIED DOCUMENTS AND MAY NOT PRECISELY REFLECT FIELD CONDITIONS.
- 2. THE CONTRACTOR SHALL NOT CONSIDER CONSTRUCTION NOTES TO BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE ARCHITECTURAL, CONSTRUCTION DRAWING AND NOTES WITH LOCAL STRUCTURAL AND MECHANICAL, ELECTRICAL & PLUMBING NOTES AND DRAWINGS.
- 3. FIELD VERIFY ALL DIMENSIONS. DO NOT SCALE DRAWINGS.
- 4. ALL FINISHES AND MATERIALS SHALL BE PROPERLY INTEGRATED TO ENSURE A UNIFORM APPEARANCE AND SEAMLESS TRANSITION.
- 5. PROVIDE ALL BACKING FOR MILLWORK, GRAB BARS, AND ANY AND ALL WALL MOUNTED EQUIPMENT OR ACCESSORIES. COORDINATE LOCATIONS.
- 6. ALL DIMENSIONS ARE FROM STRUCTURAL OR UNFINISHED FACE OF STUD UNLESS OTHERWISE NOTED.
- 7. GENERAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE BUILDING CONSTRUCTION.
- 8. PATCH AND REPAIR ANY ALL WALL SURFACES AS REQUIRED TO PROVIDE SUITABLE SUBSTRATE FOR FINISHES.



1 TYPICAL PRECAST JOINT
NOT TO SCALE

3 CMU REPLACEMENT
N.T.S.

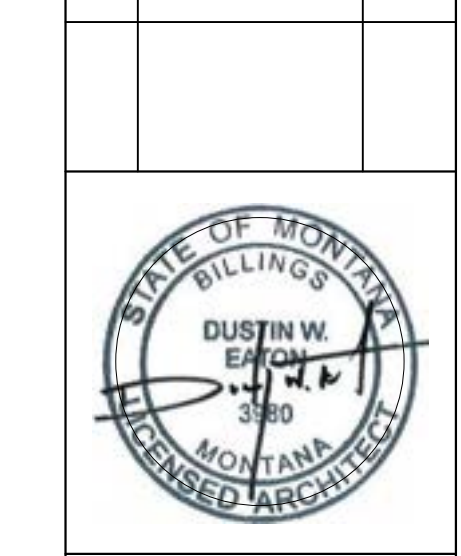


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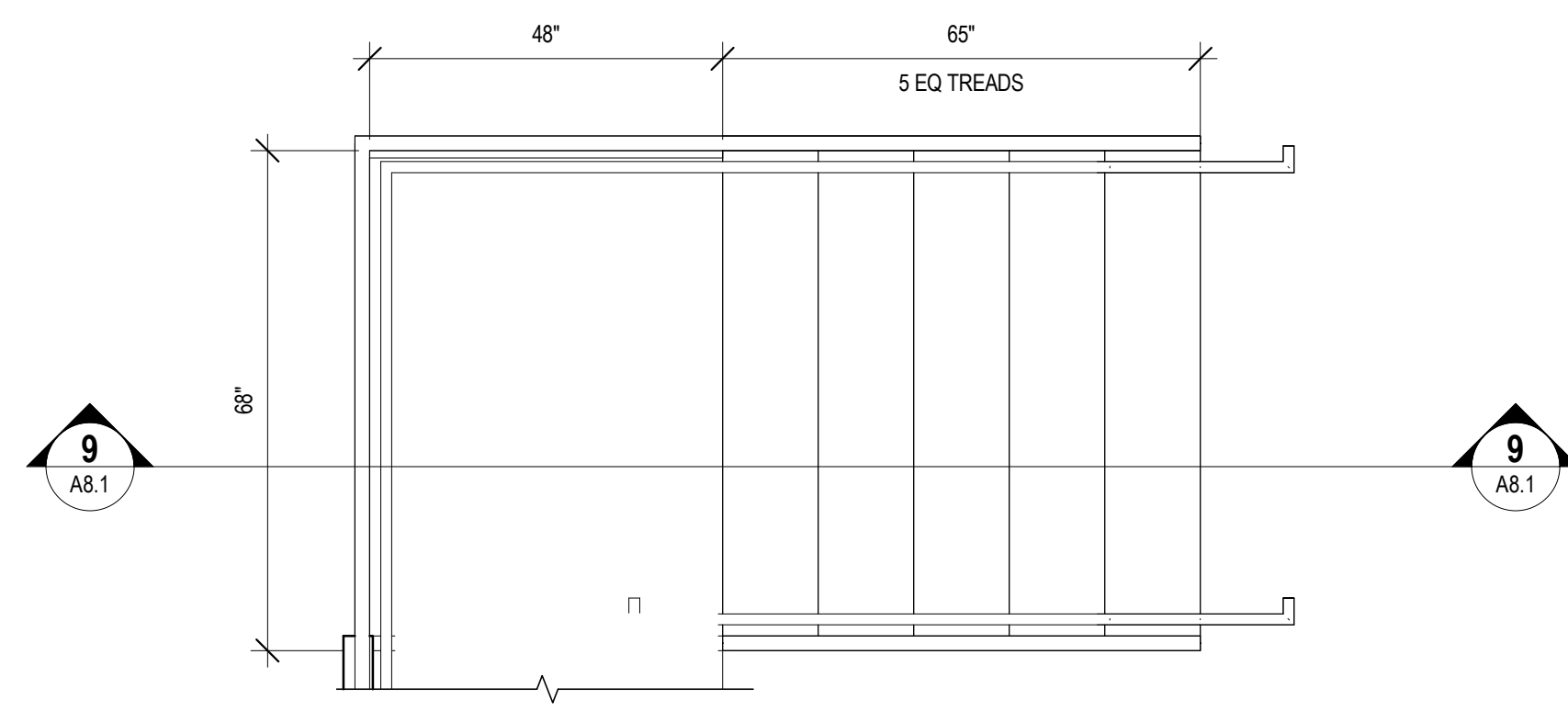
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**Morrison
Maierle**
engineers - surveyors - planners - scientists

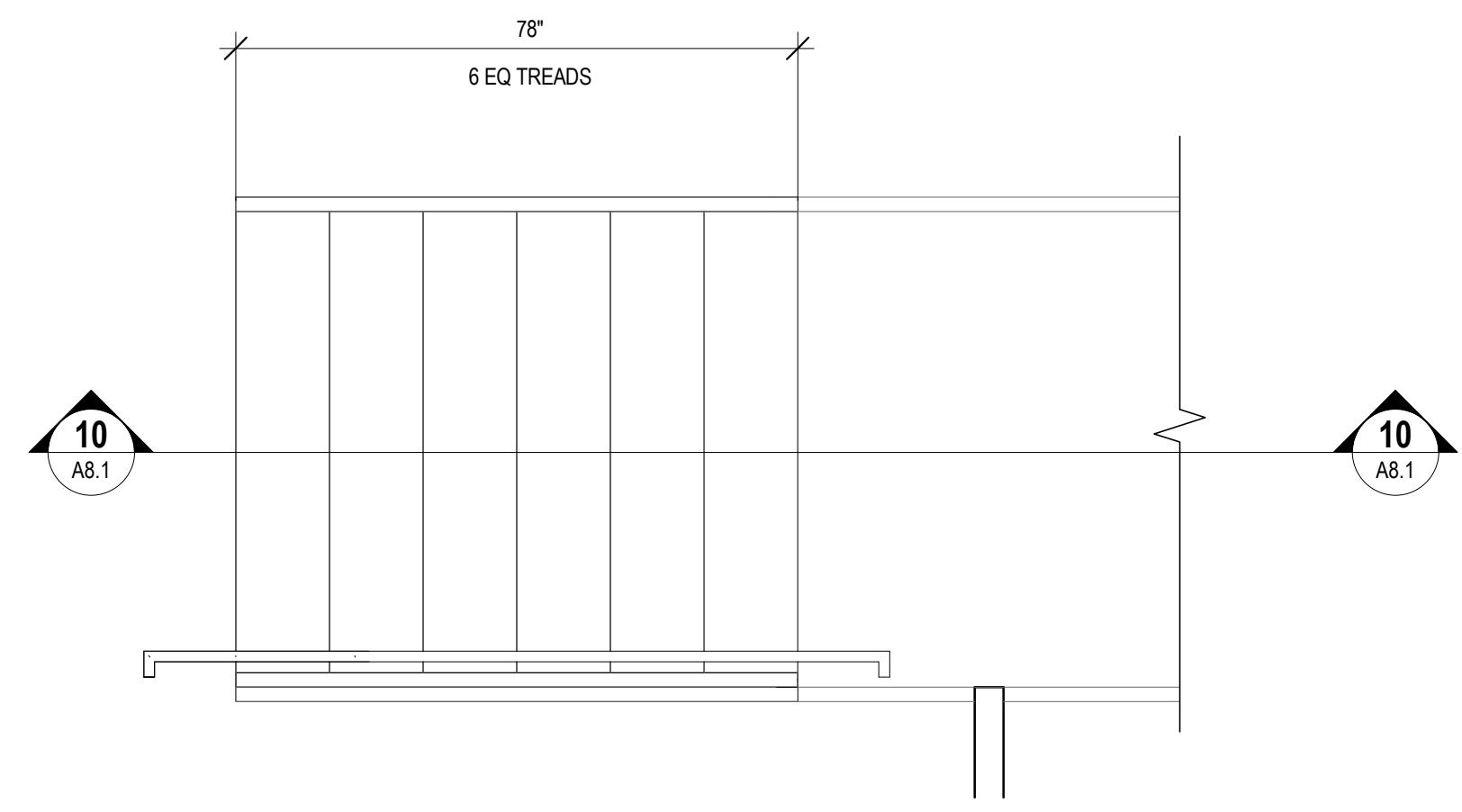
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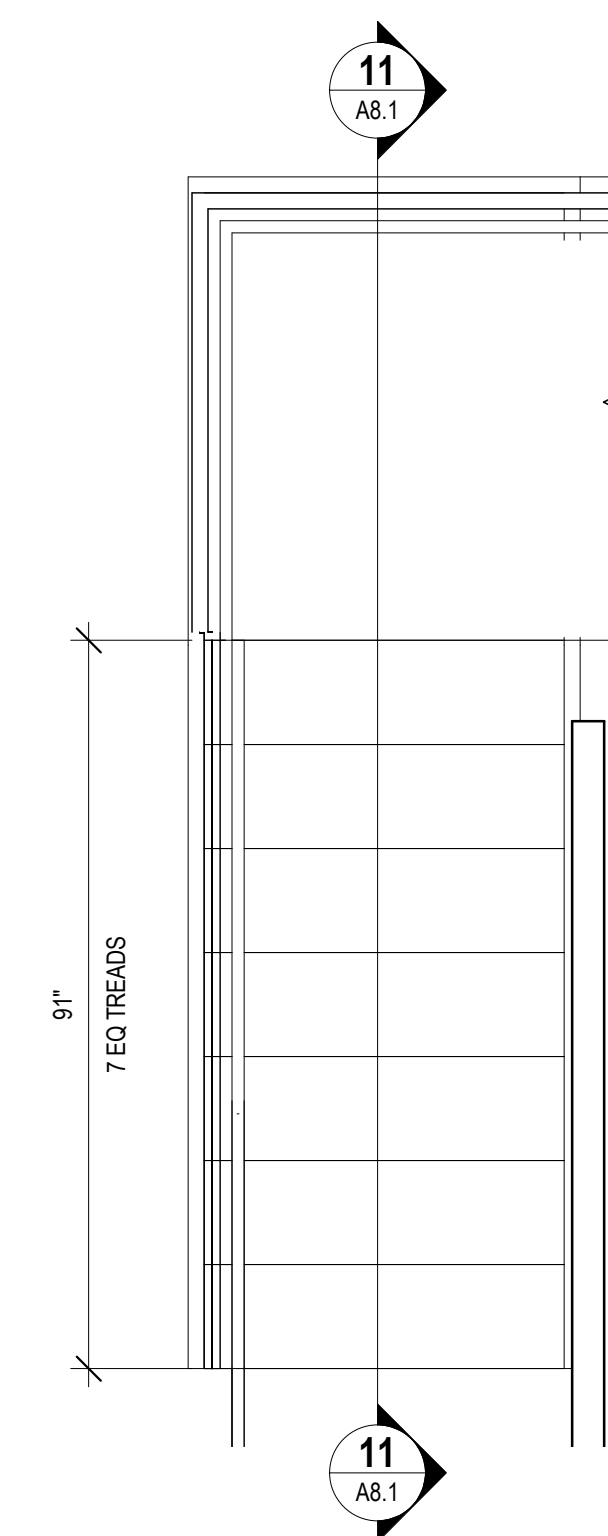
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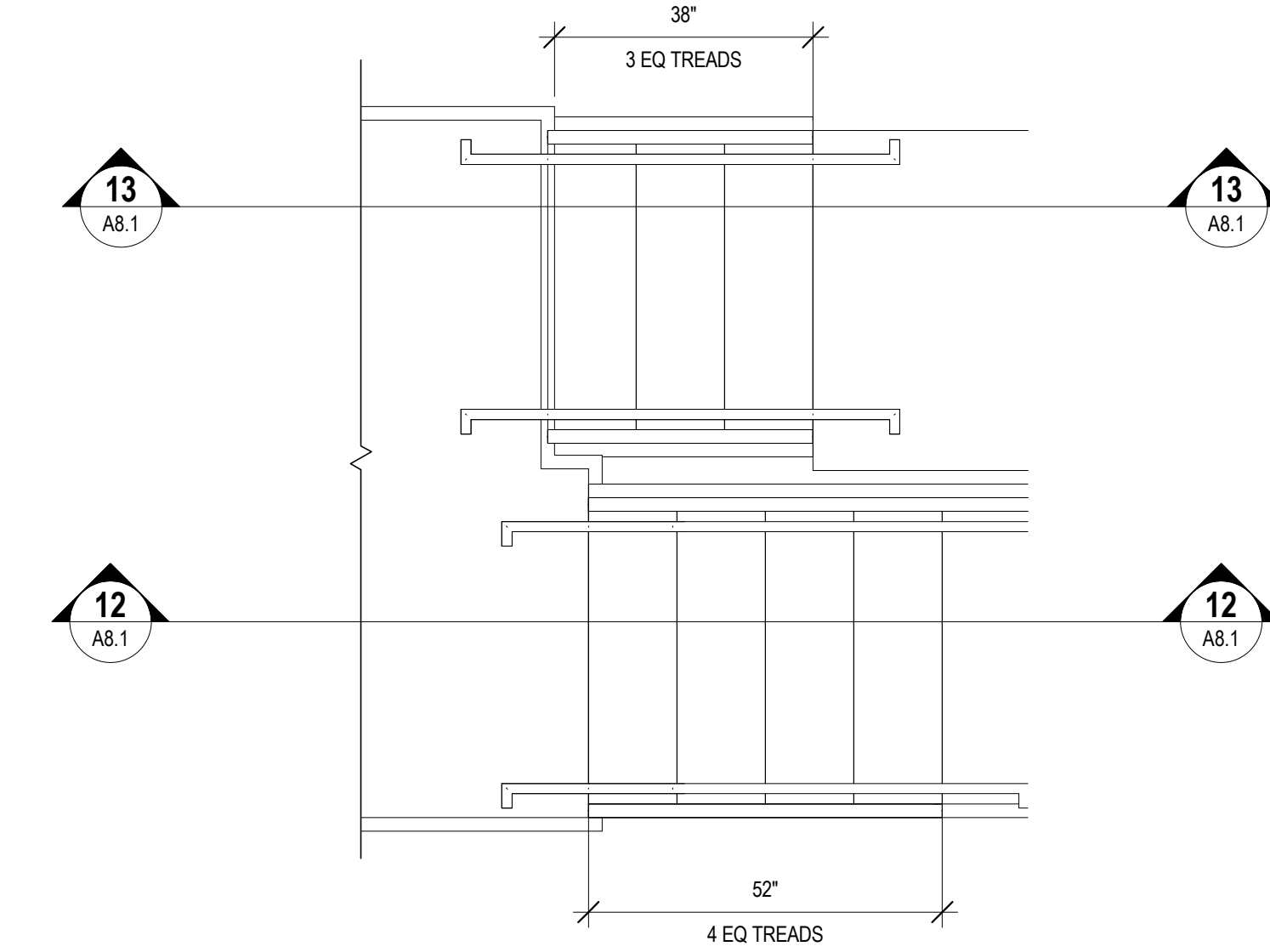
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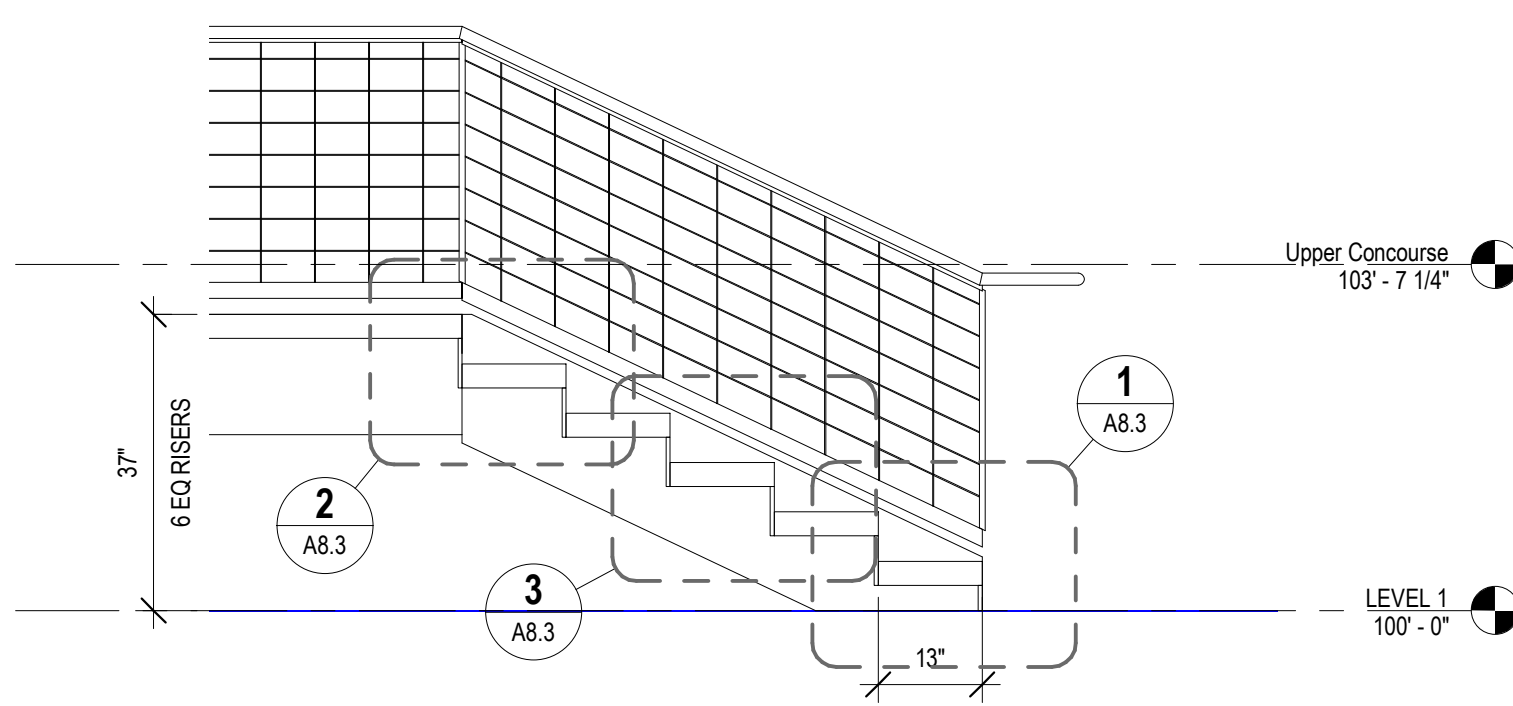
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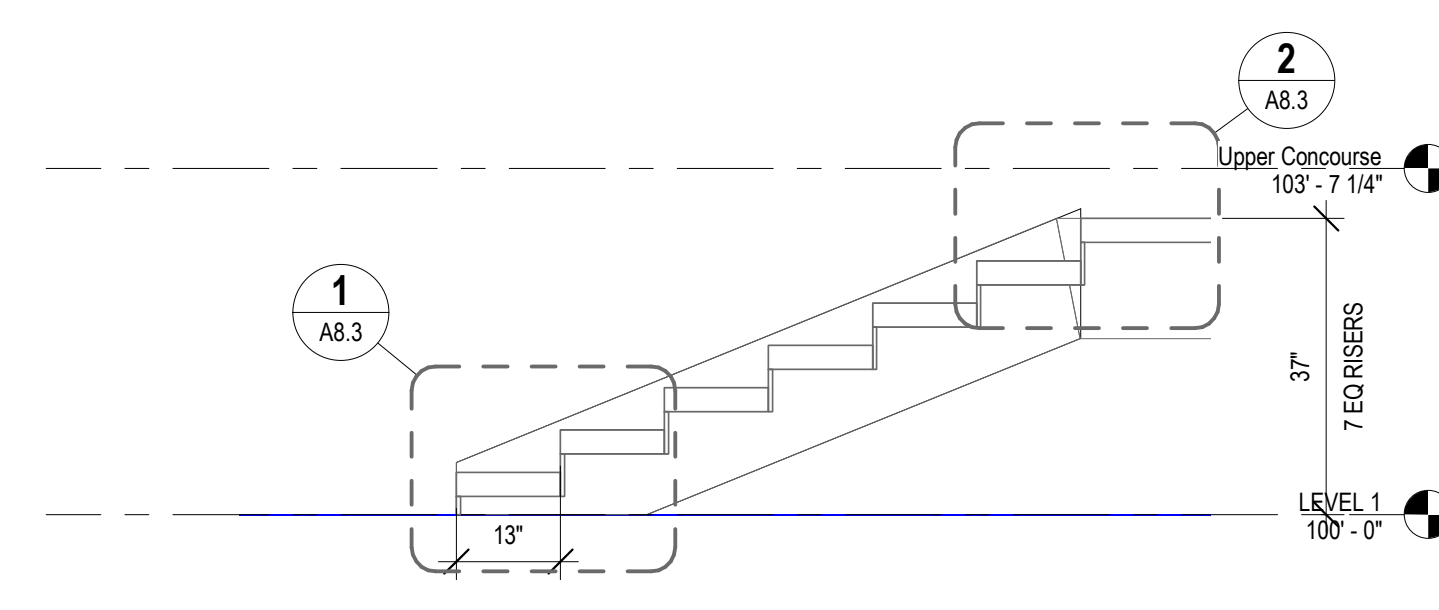
2 ENLARGED PLAN - STAIR 3
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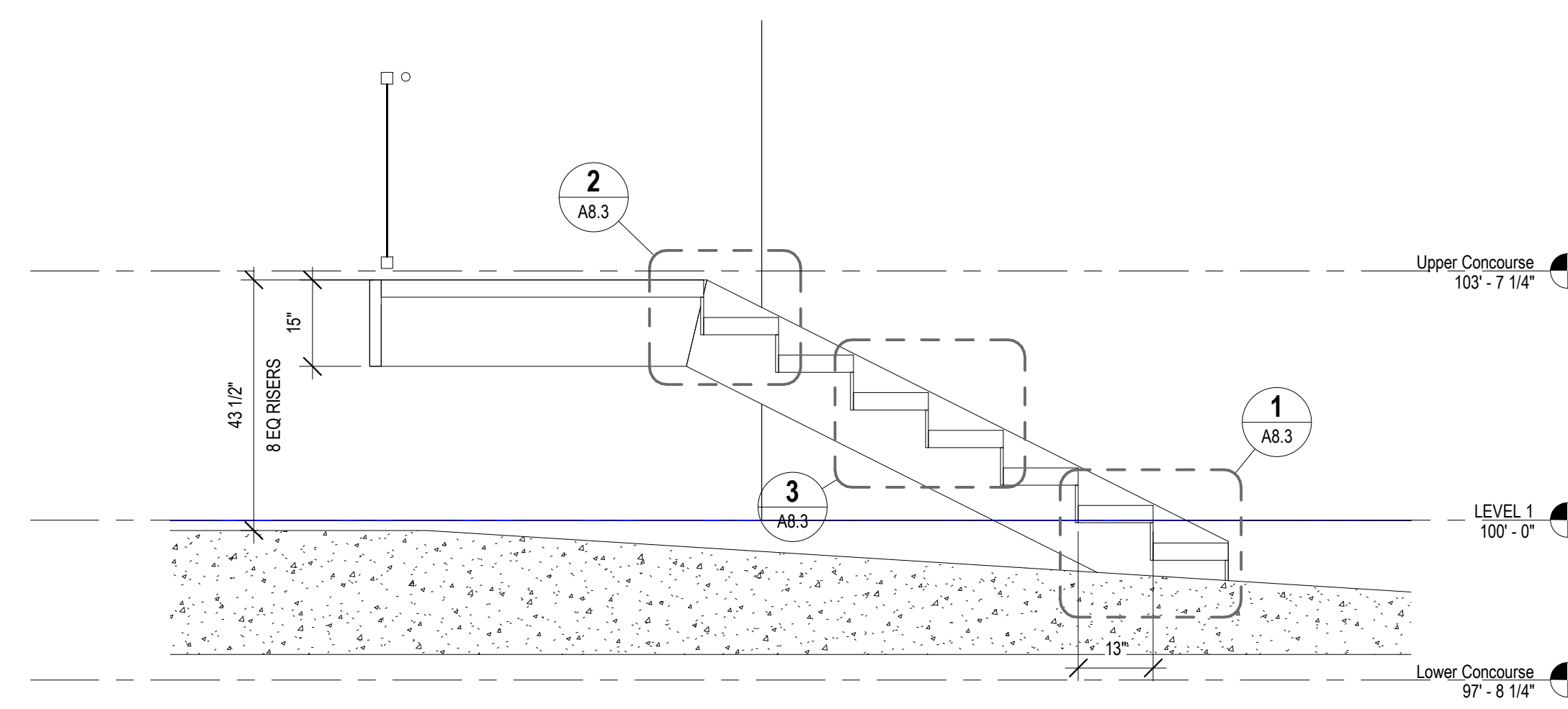
4 ENLARGED PLAN - STAIR 4
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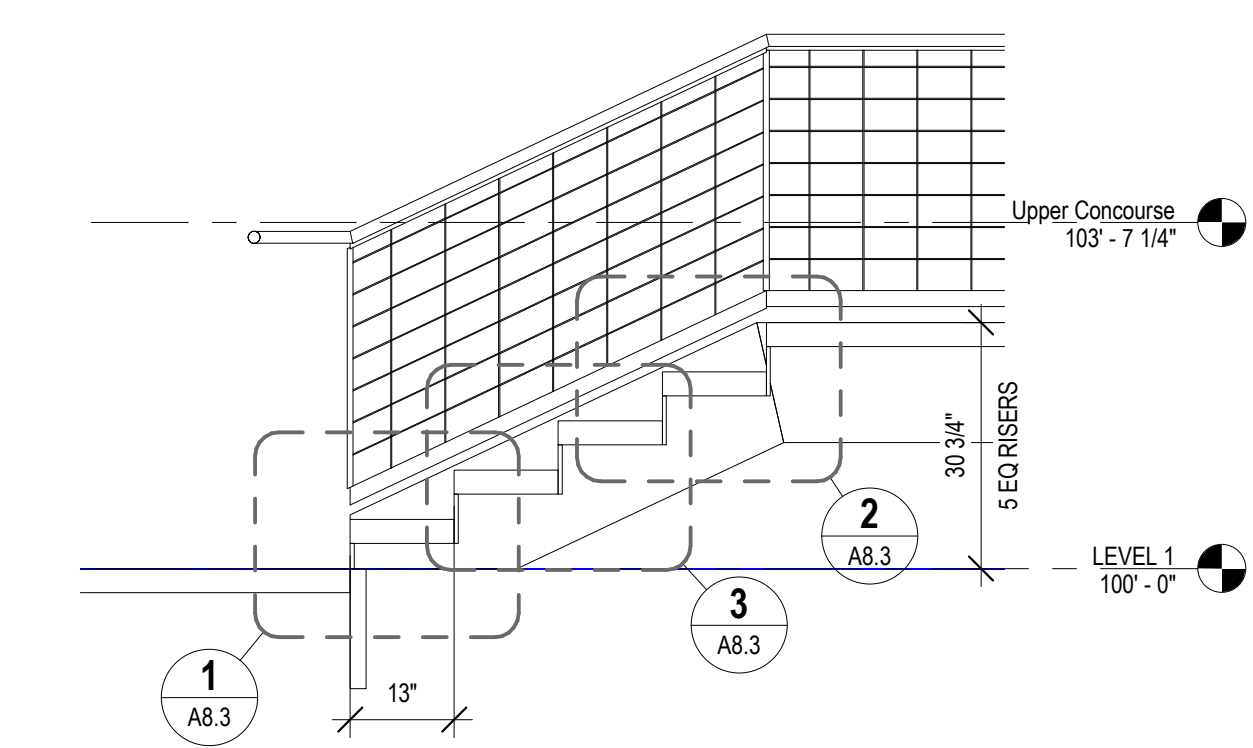
9 SECTION @ STAIR 1
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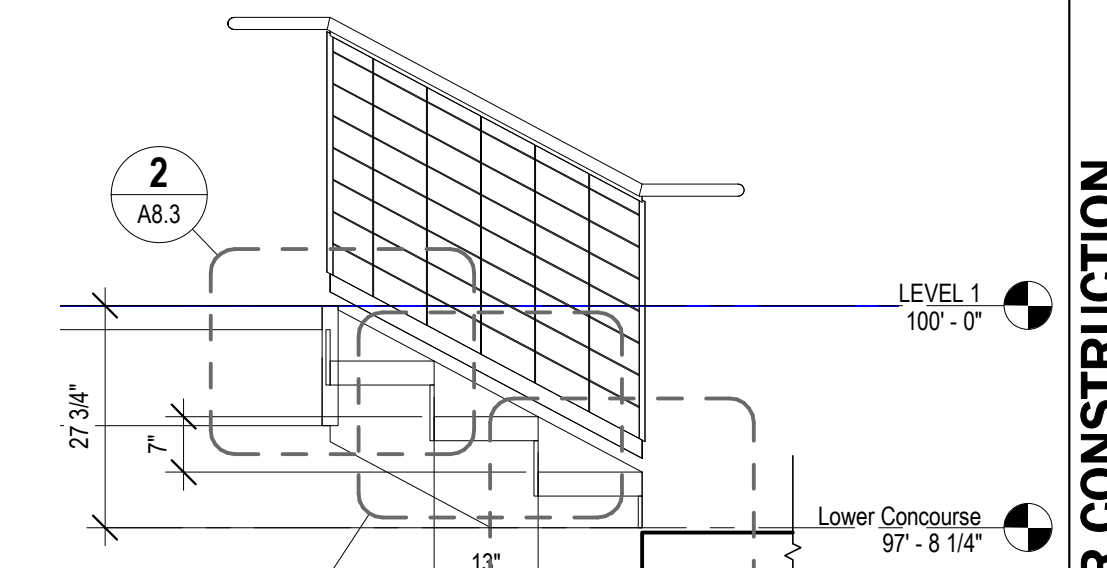
10 SECTION @ STAIR 2
1/2" = 1'-0"



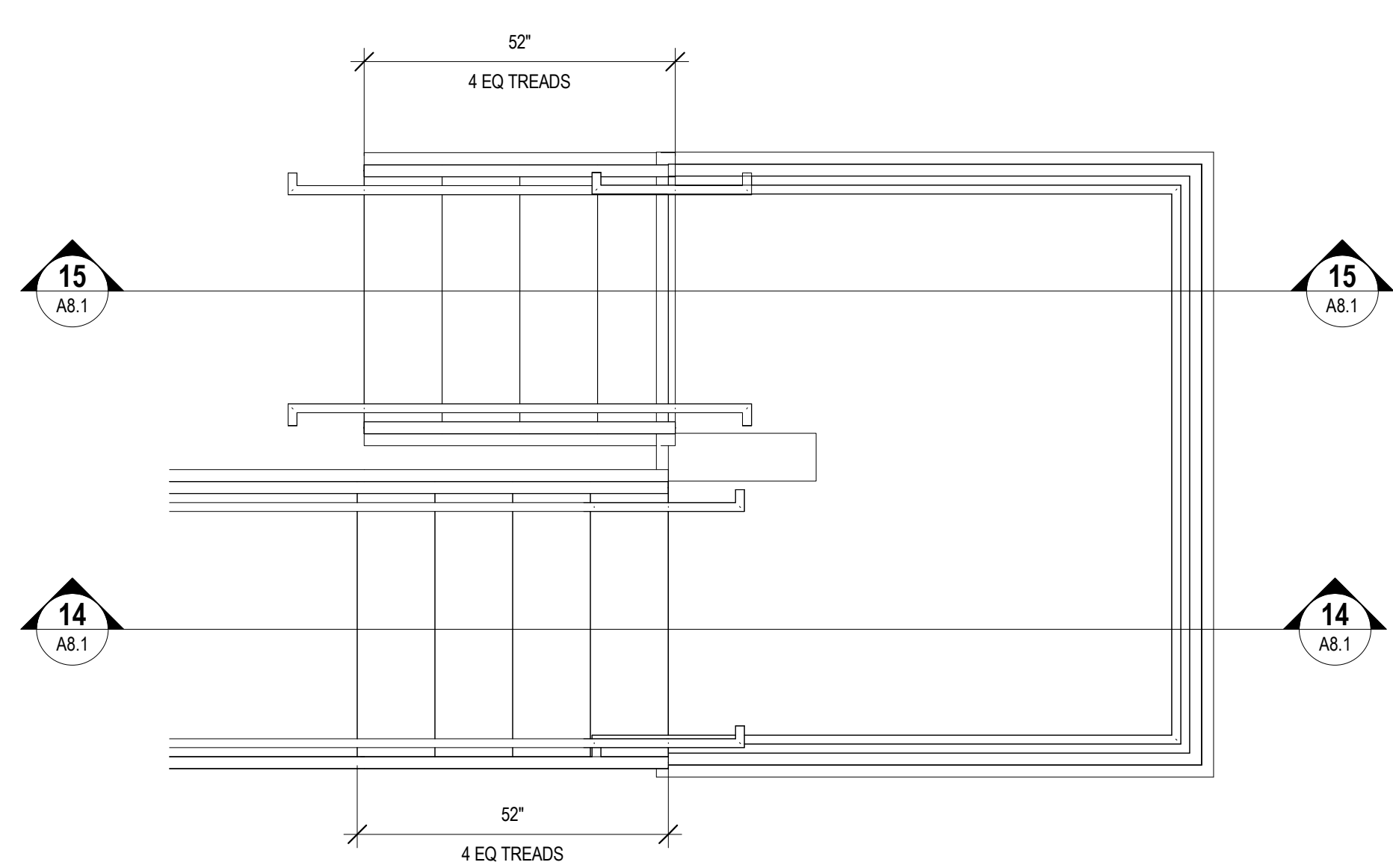
11 SECTION @ STAIR 3
1/2" = 1'-0"



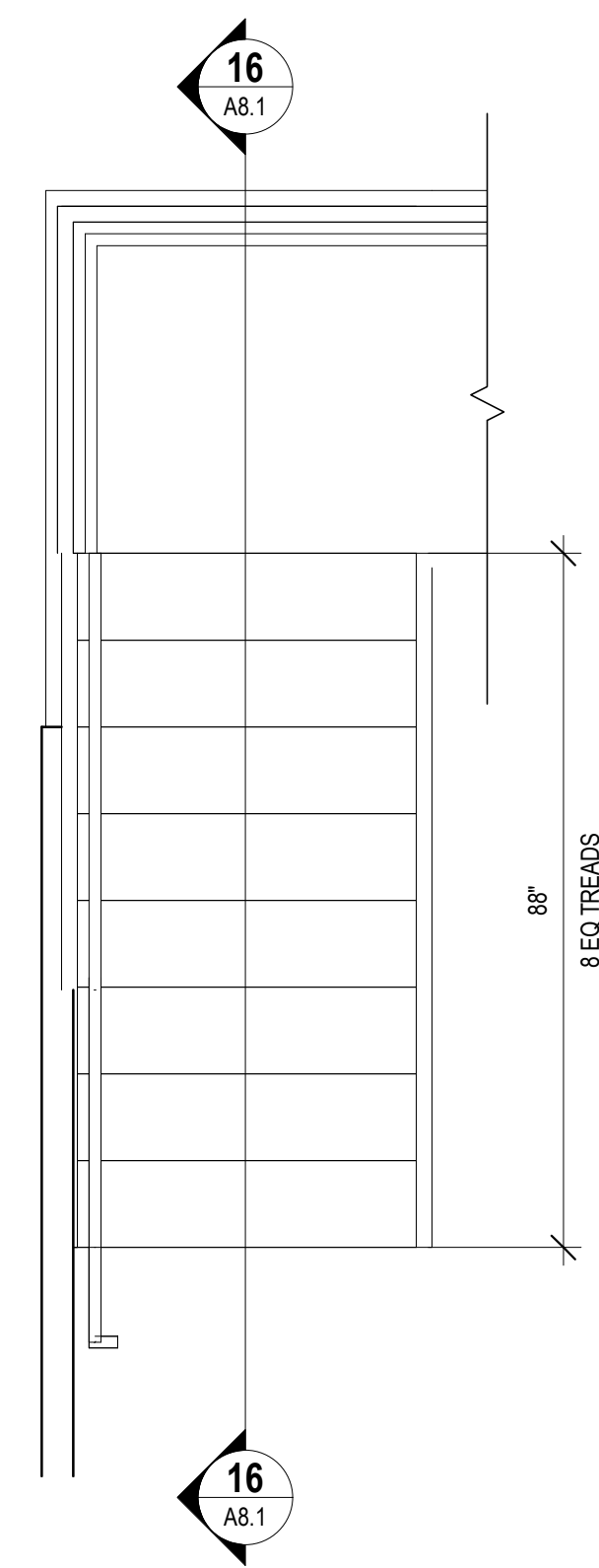
12 SECTION @ STAIR 4 A
1/2" = 1'-0"



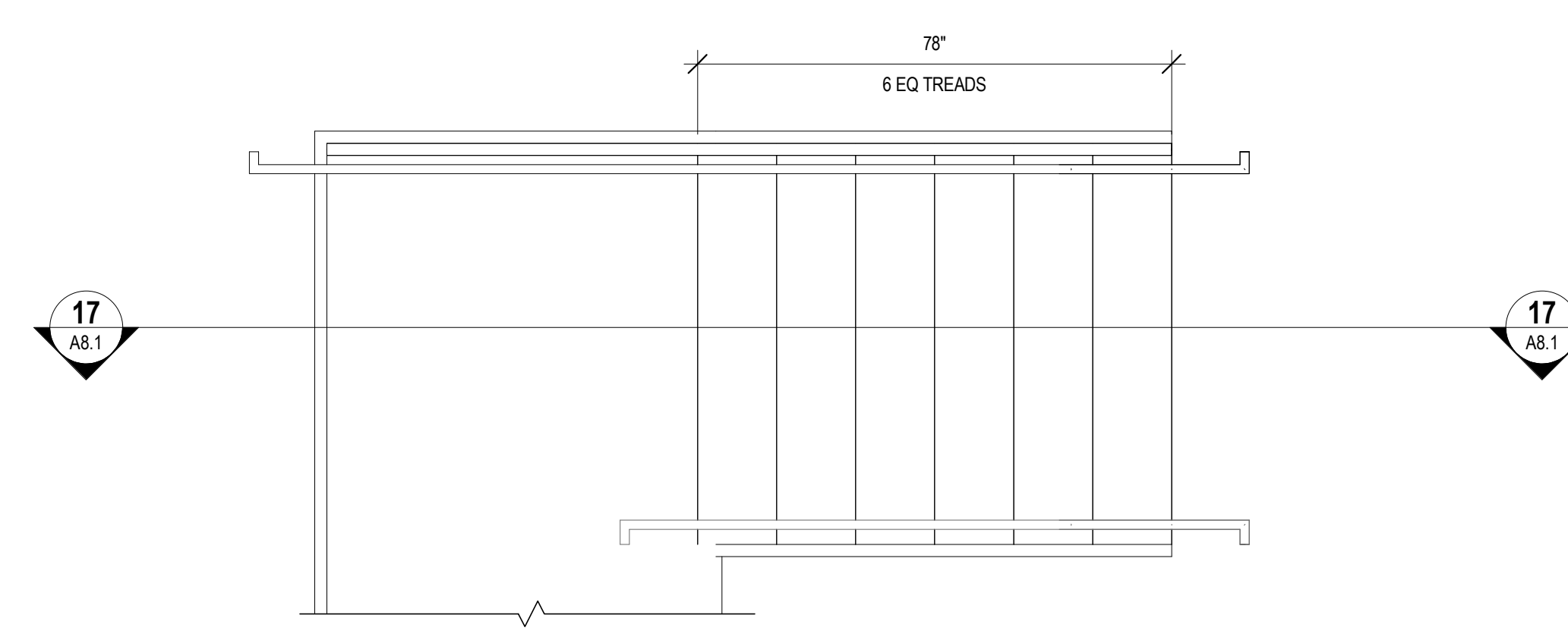
13 SECTION @ STAIR 4 B
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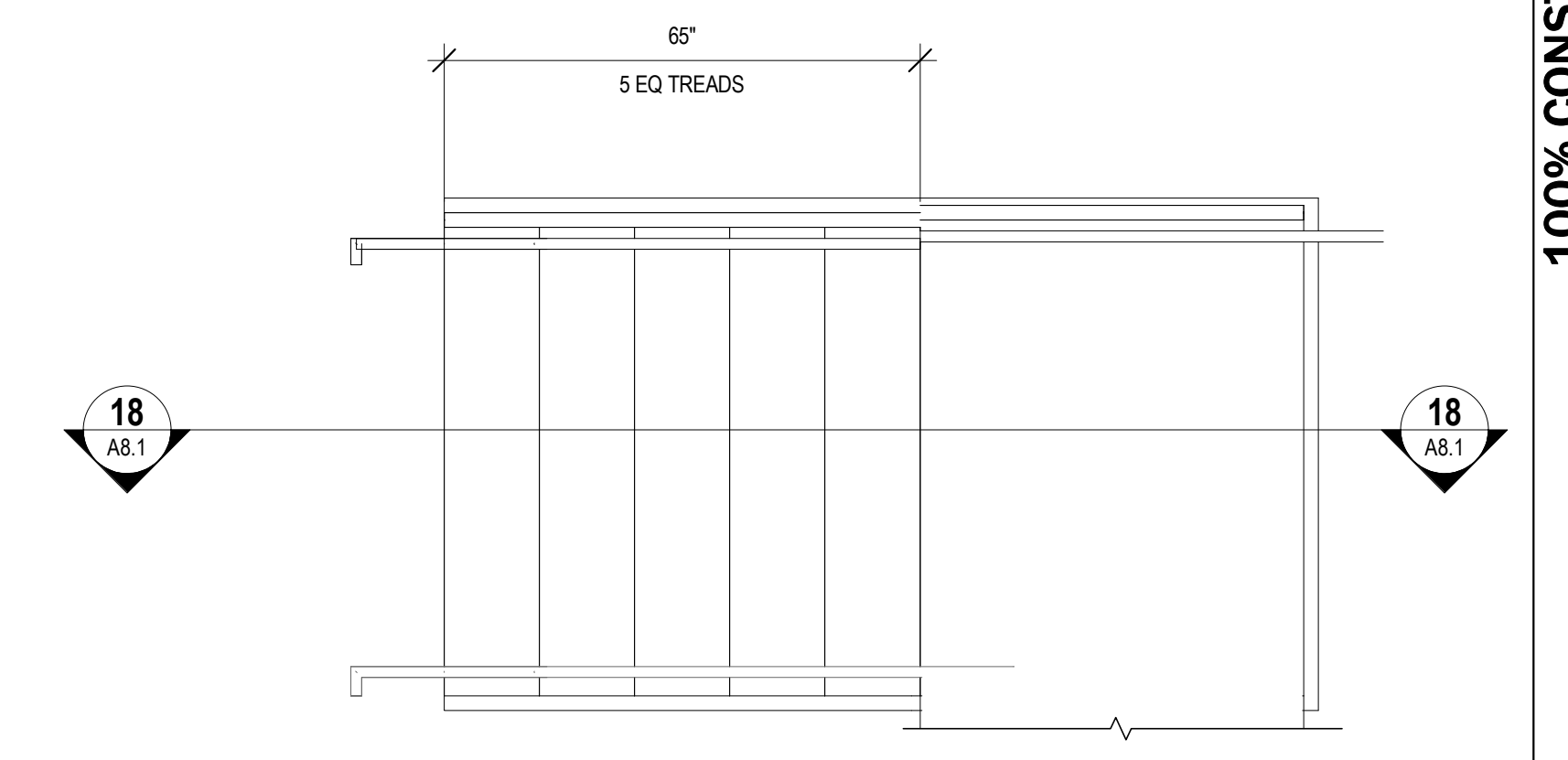
5 ENLARGED PLAN - STAIR 5
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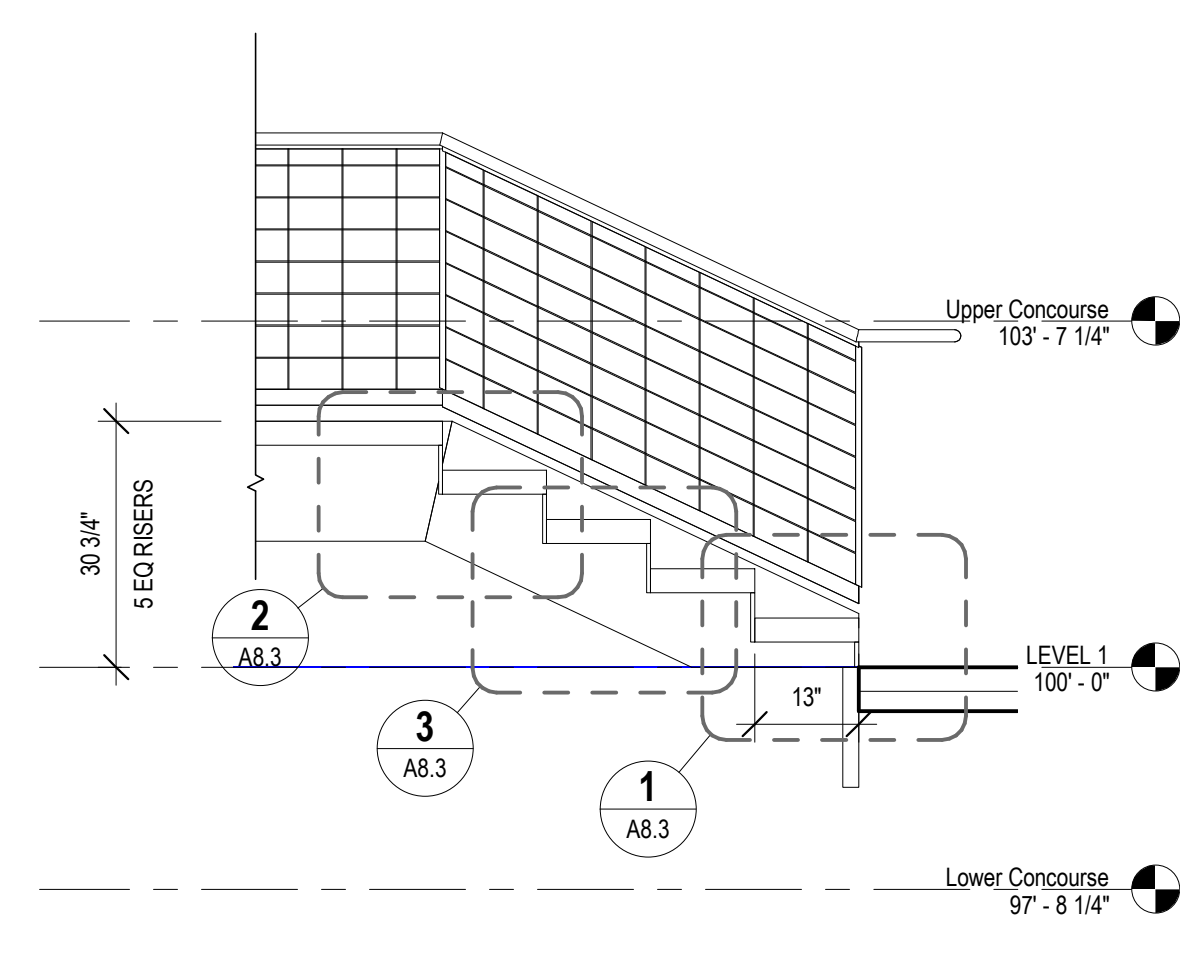
6 ENLARGED PLAN - STAIR 6
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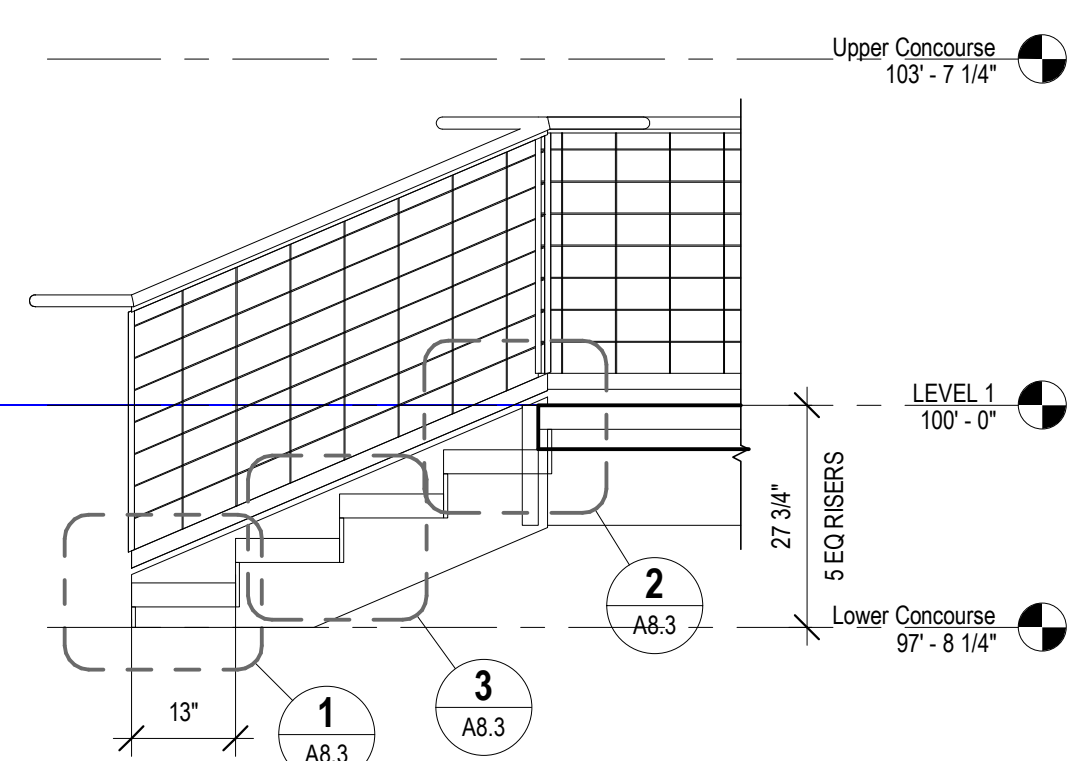
7 ENLARGED PLAN - STAIR 7
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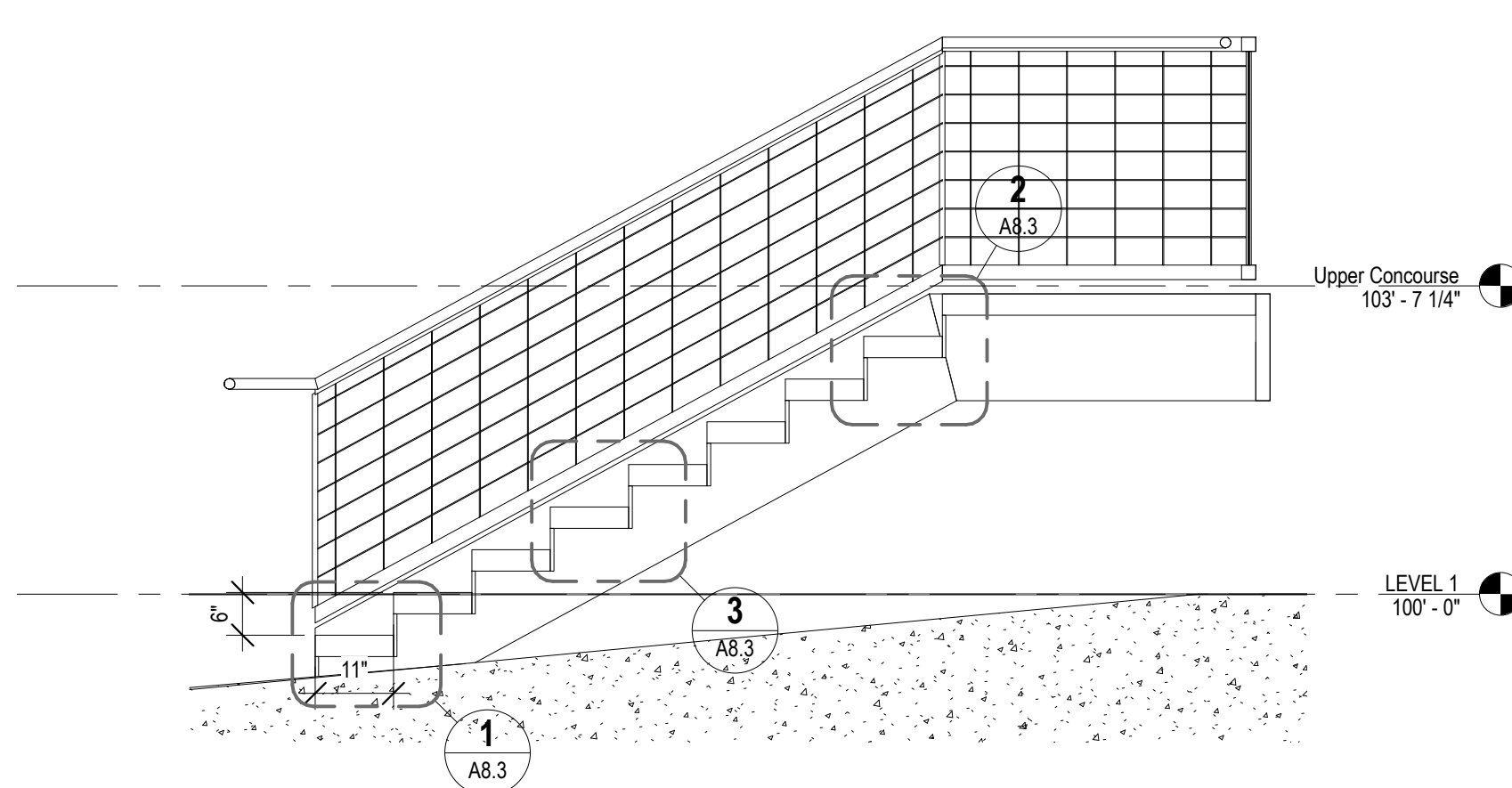
8 ENLARGED PLAN - STAIR 8
1/2" = 1'-0"



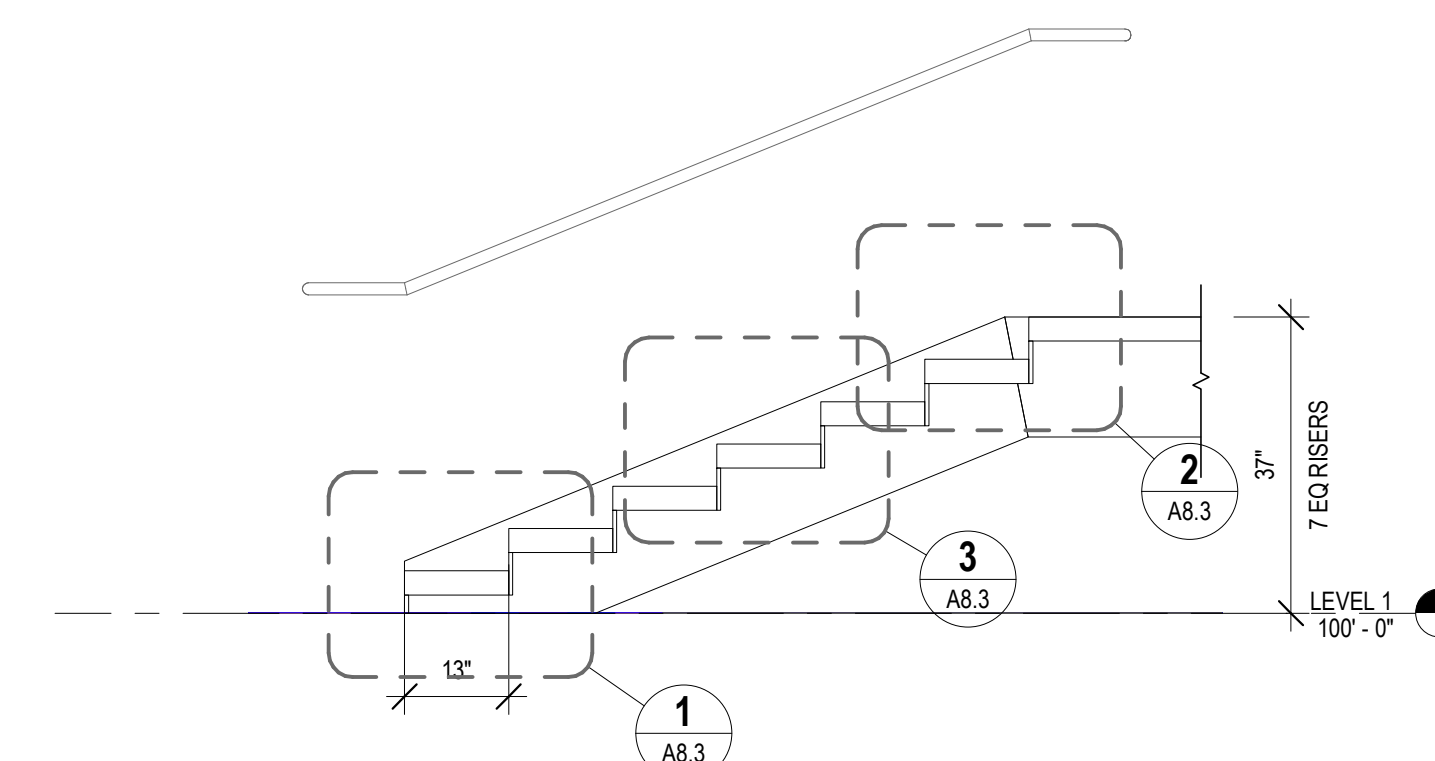
14 SECTION @ STAIR 5 A
1/2" = 1'-0"



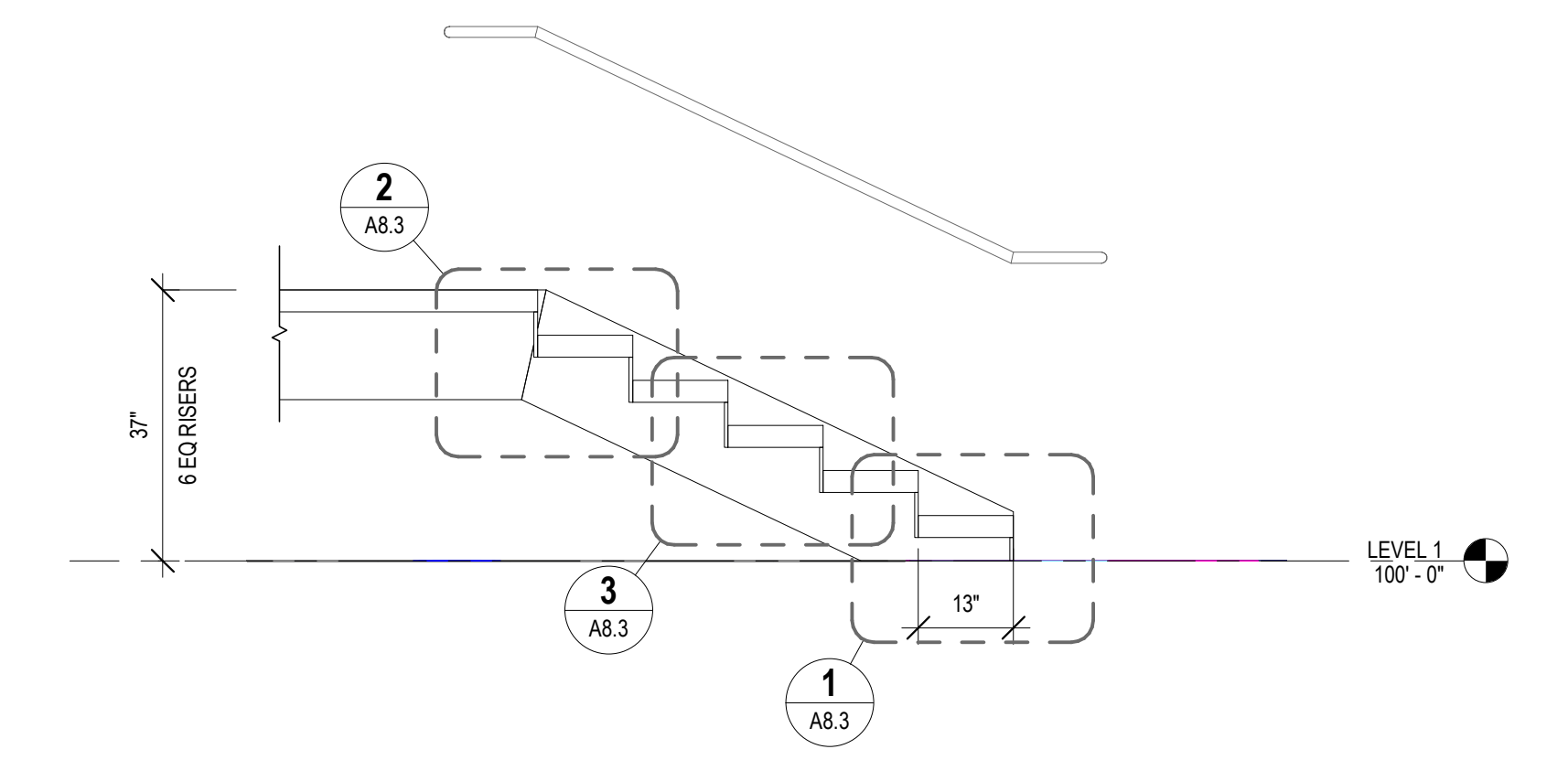
15 SECTION @ STAIR 5 B
1/2" = 1'-0"



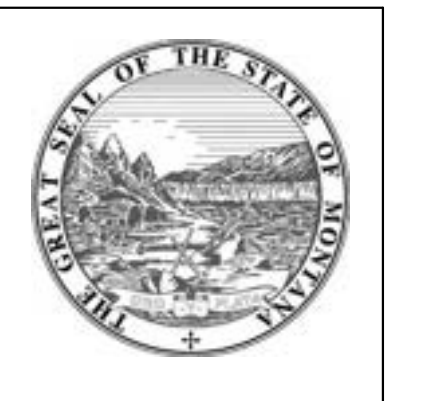
16 SECTION @ STAIR 6
1/2" = 1'-0"



17 SECTION @ STAIR 7
1/2" = 1'-0"



18 SECTION @ STAIR 8
1/2" = 1'-0"

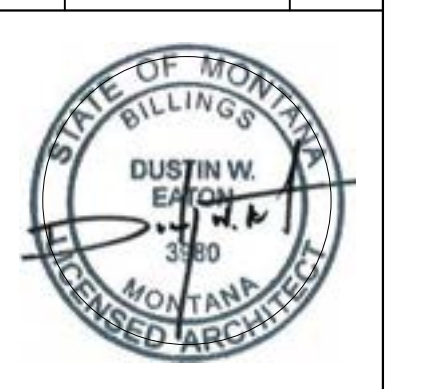


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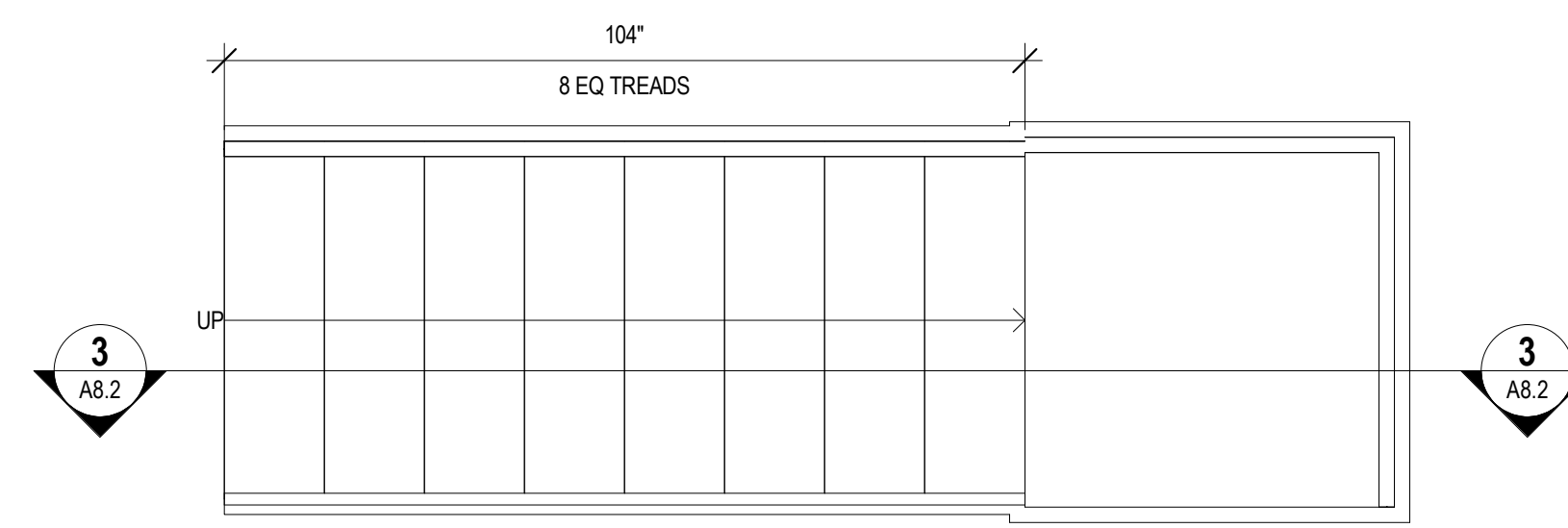
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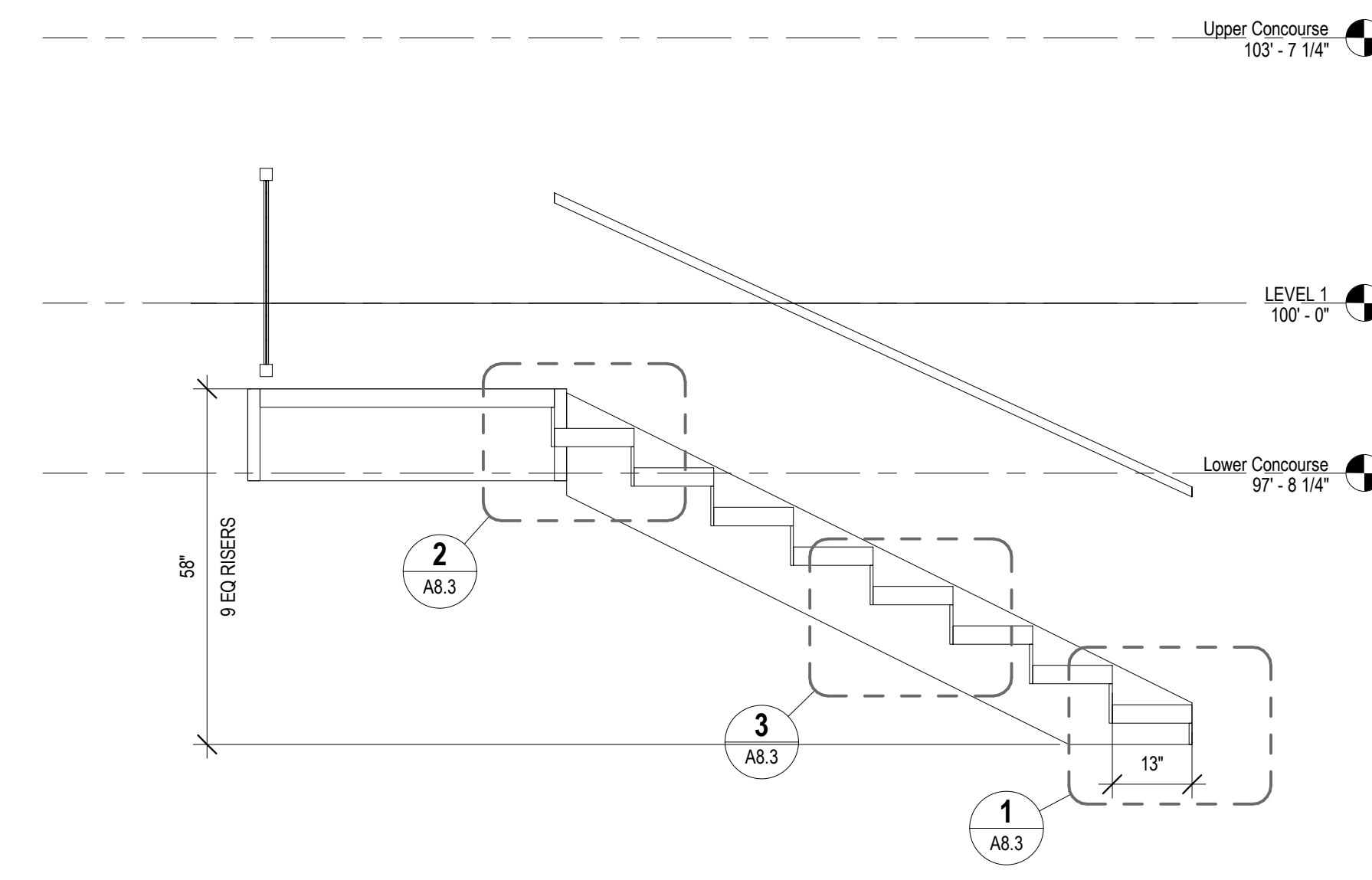
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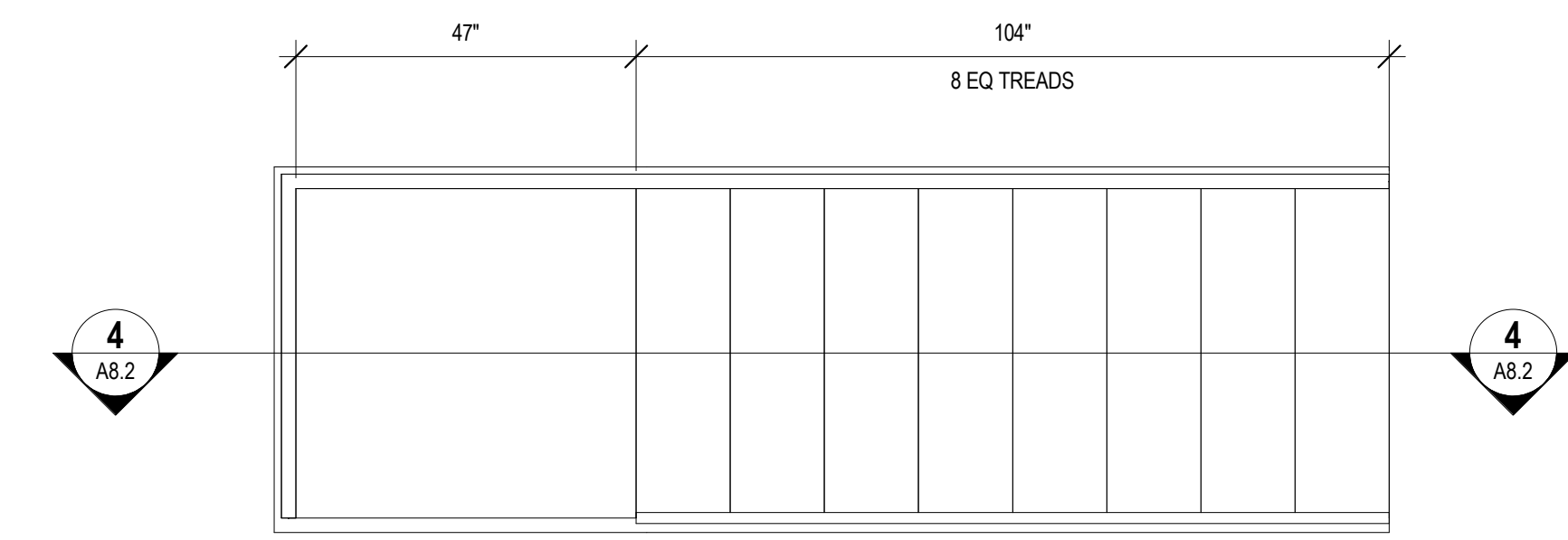
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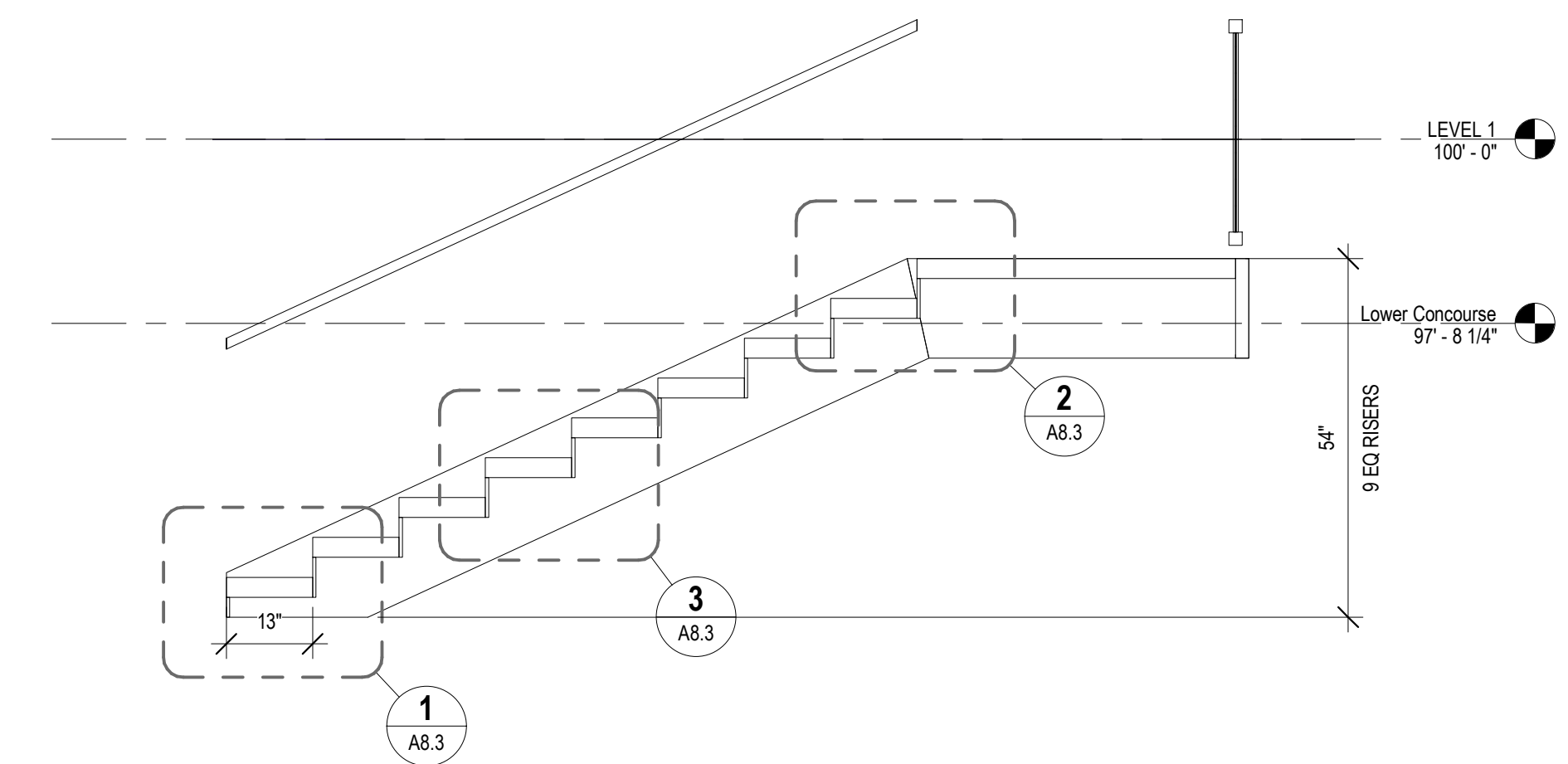
2 ENLARGED PLAN - STAIR 10
1/2" = 1'-0"



3 SECTION @ STAIR 10
1/2" = 1'-0"



1 ENLARGED PLAN - STAIR 9
1/2" = 1'-0"



4 SECTION @ STAIR 9
1/2" = 1'-0"



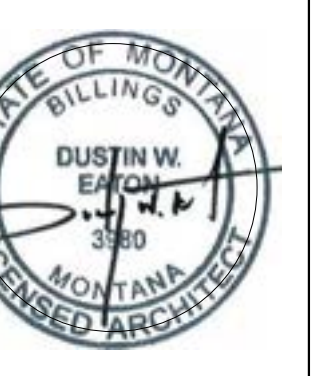
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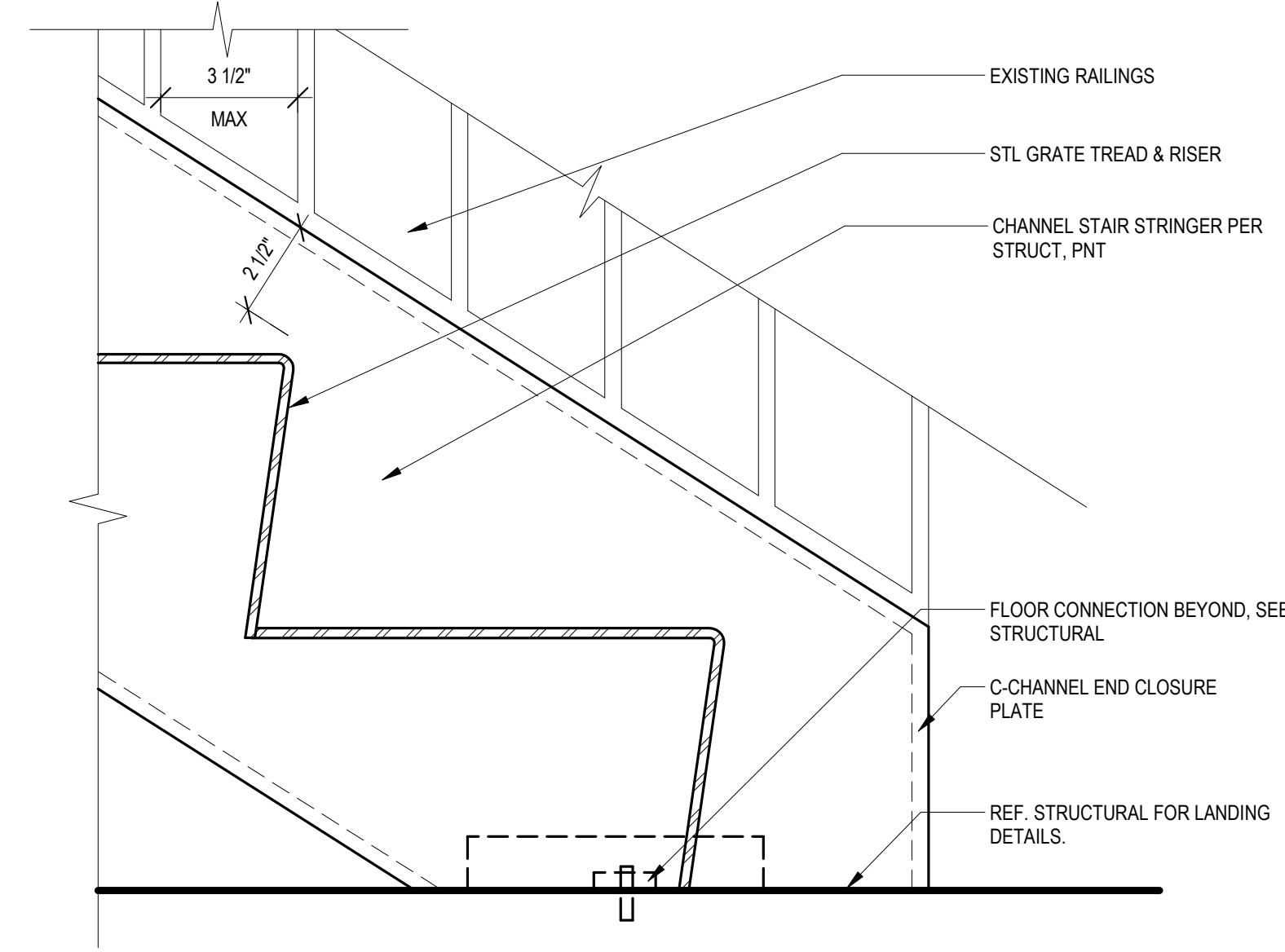
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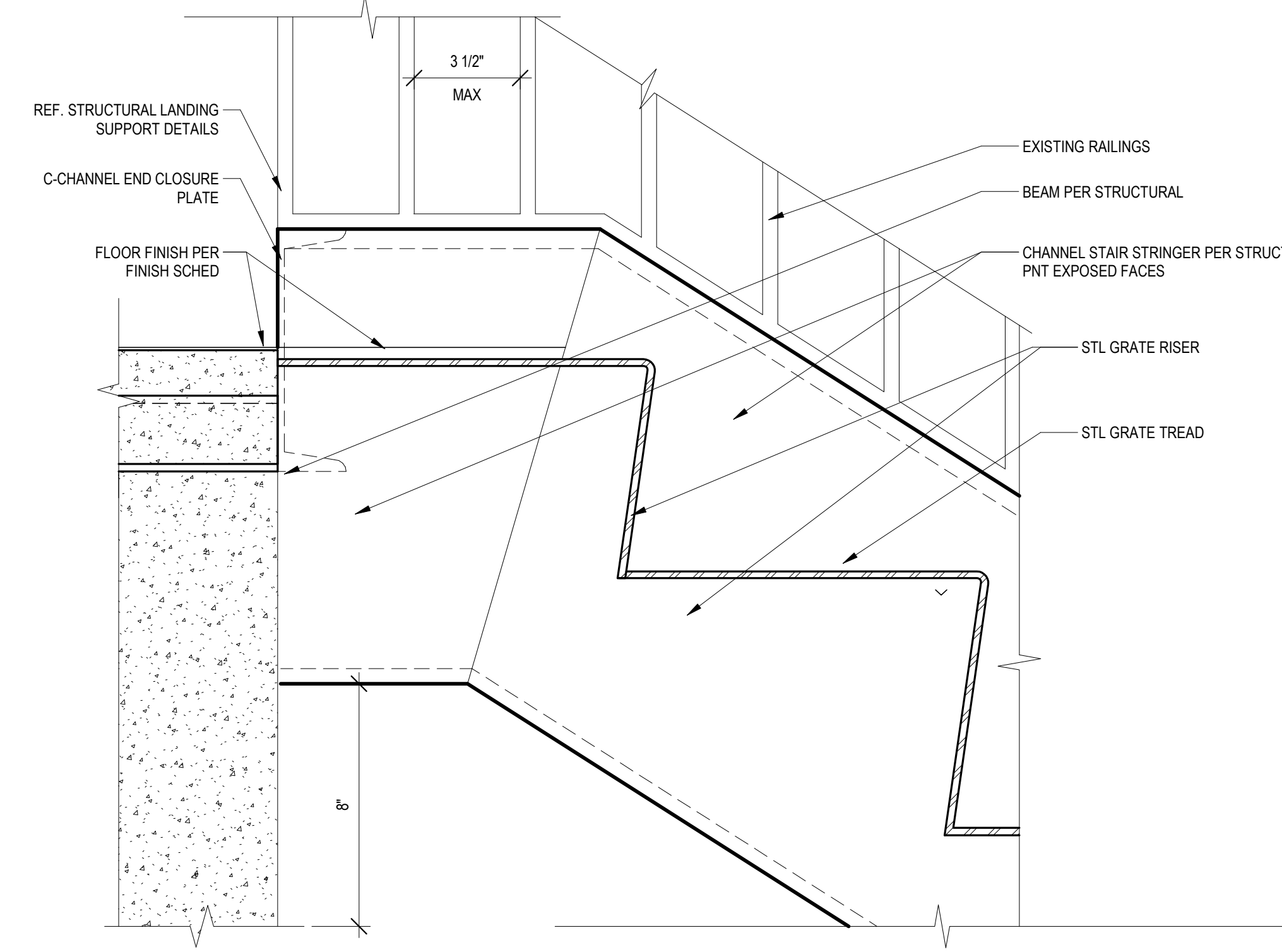
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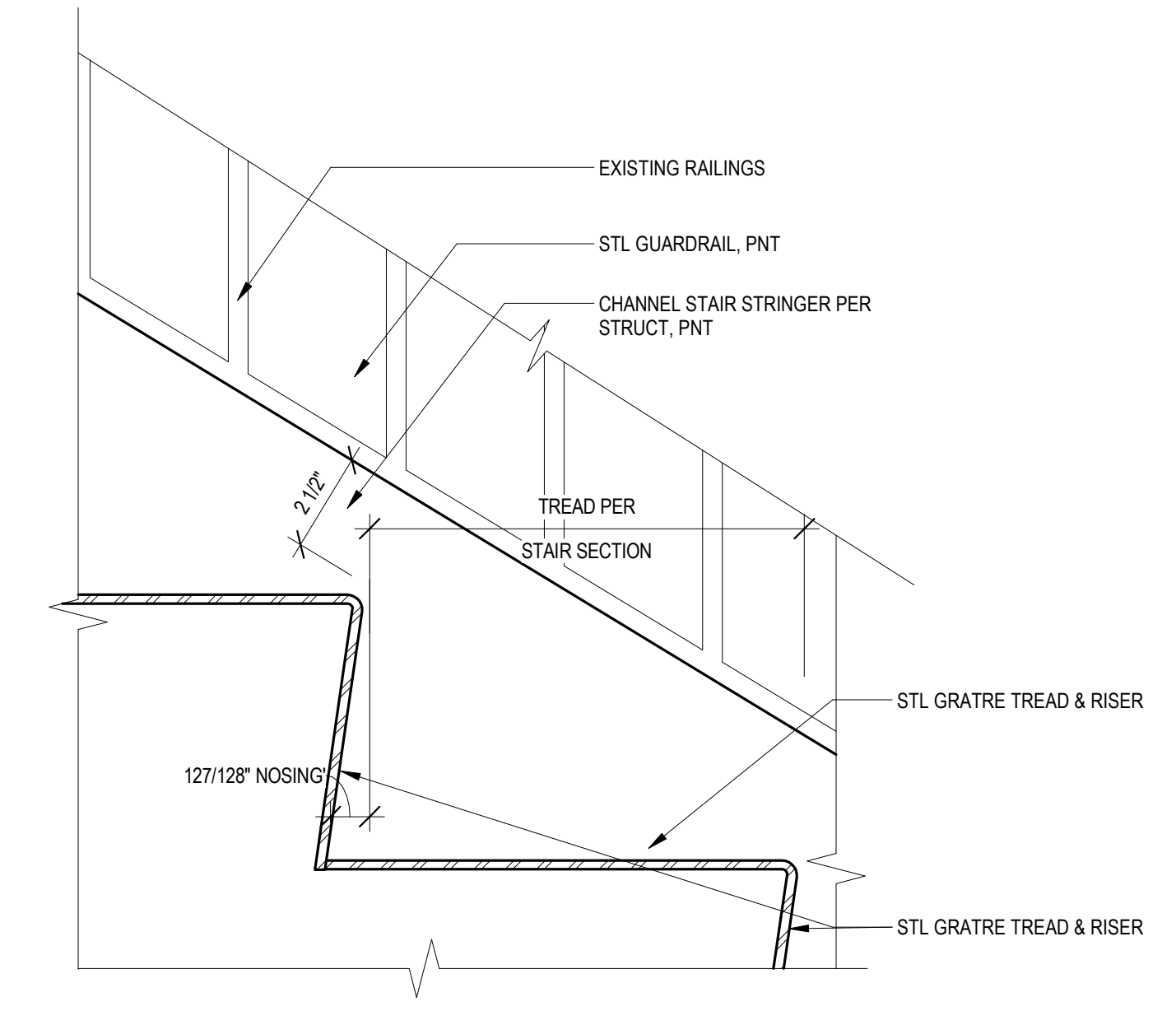
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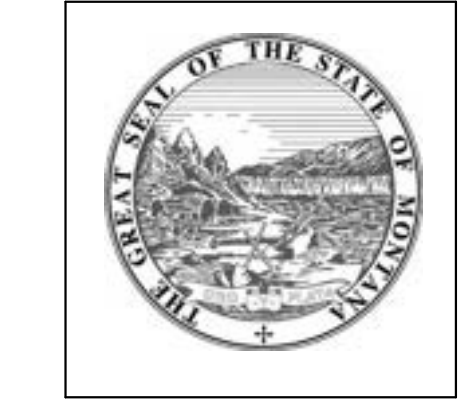
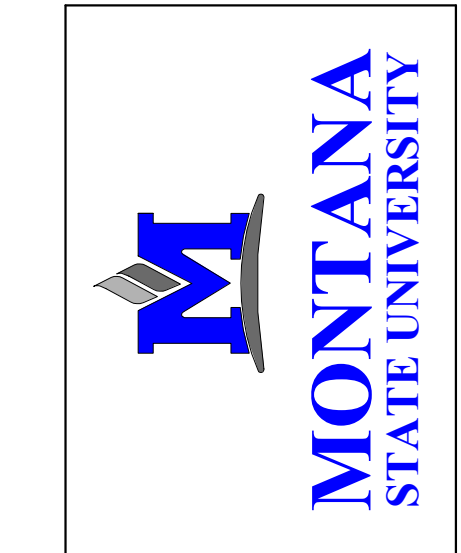
1 STAIR DETAIL - TREAD @ LOWER LANDING
3" = 1'-0"



2 STAIR DETAIL - TREAD @ UPPER LANDING
3" = 1'-0"



3 STAIR DETAIL - TREAD, TYP.
3" = 1'-0"

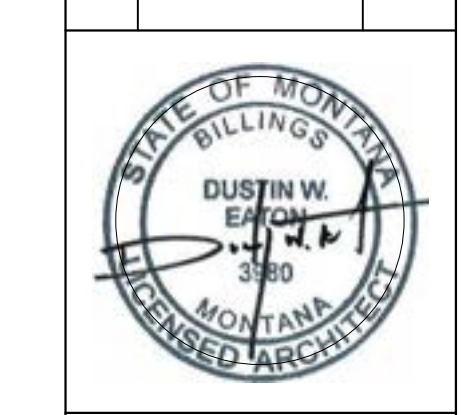


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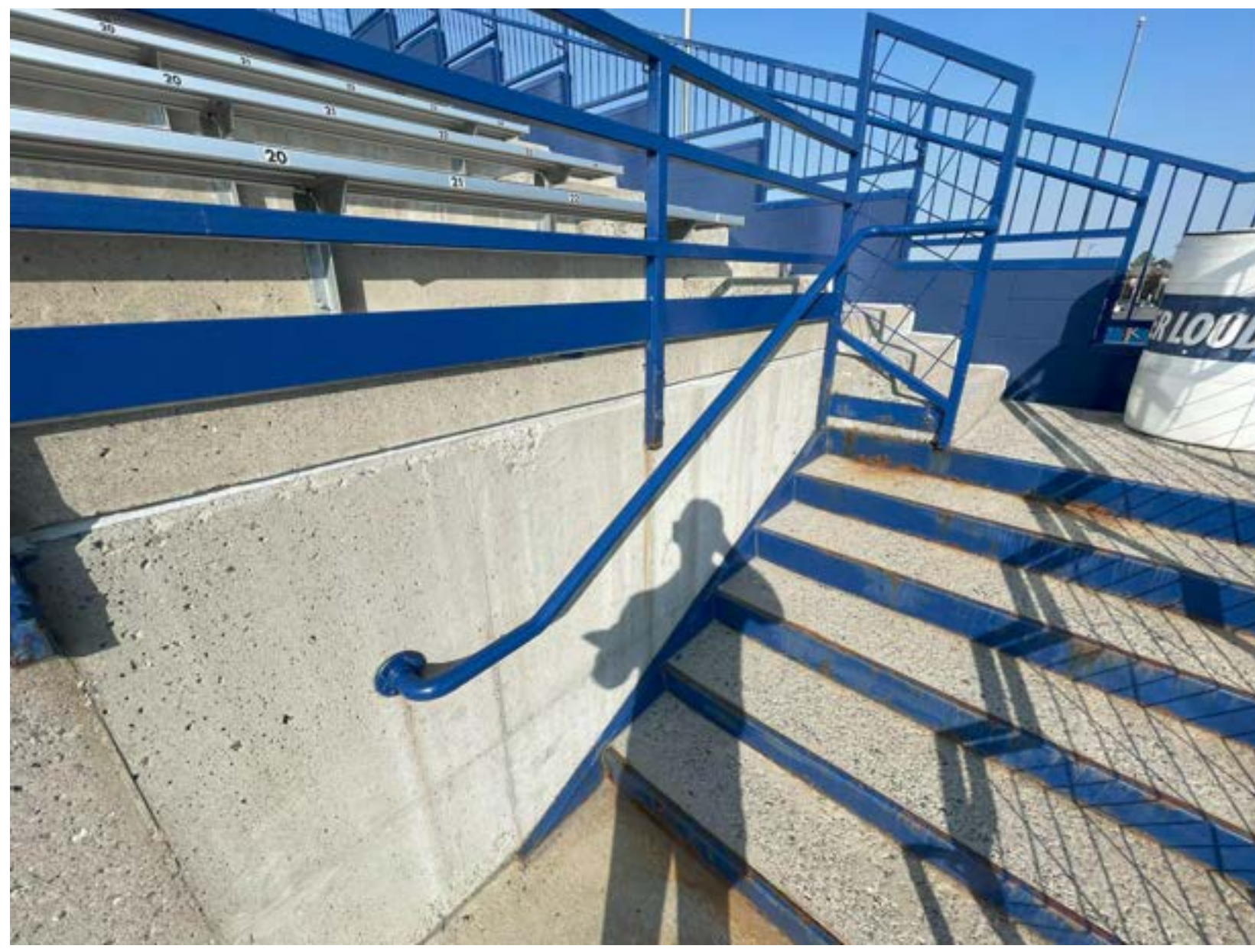
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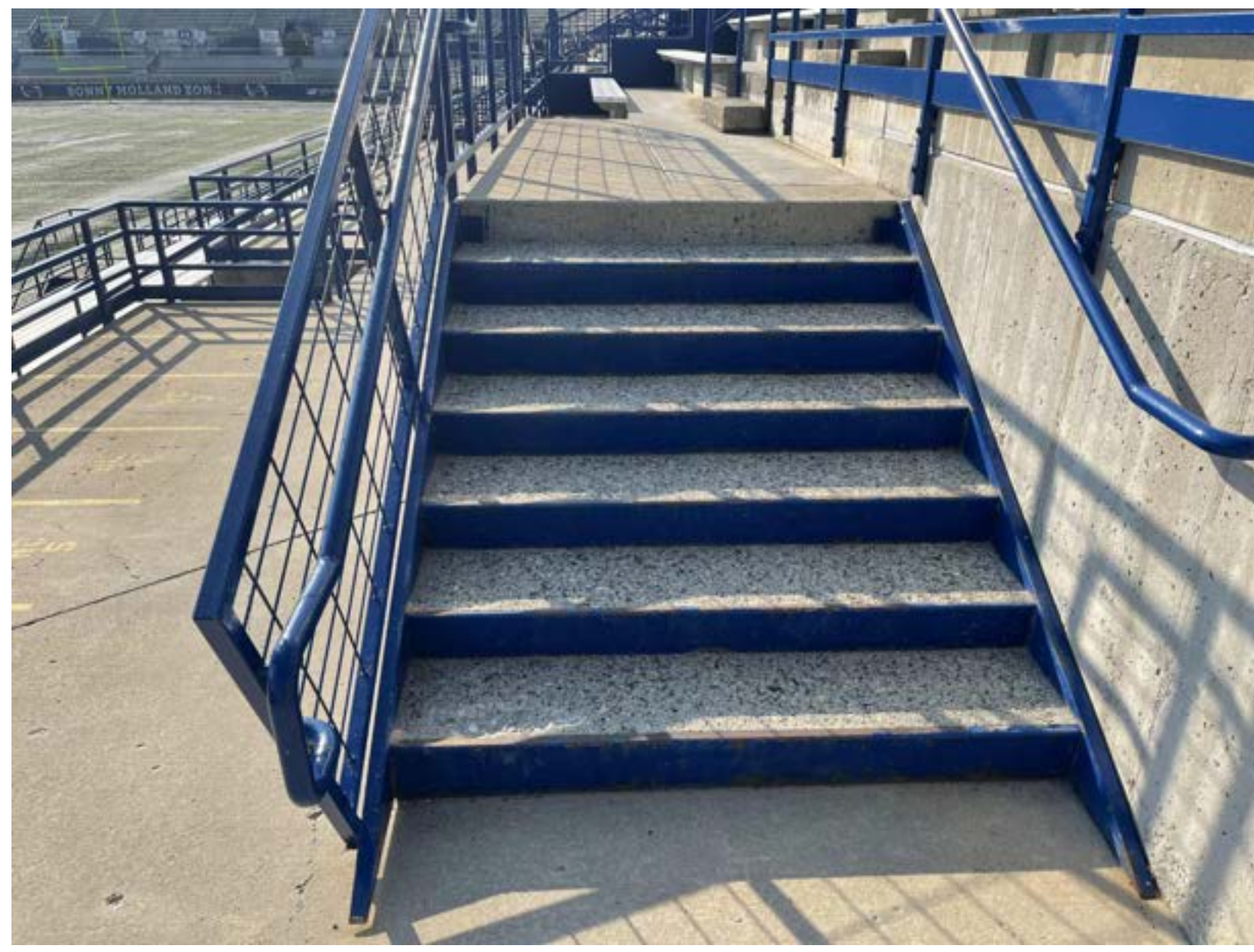
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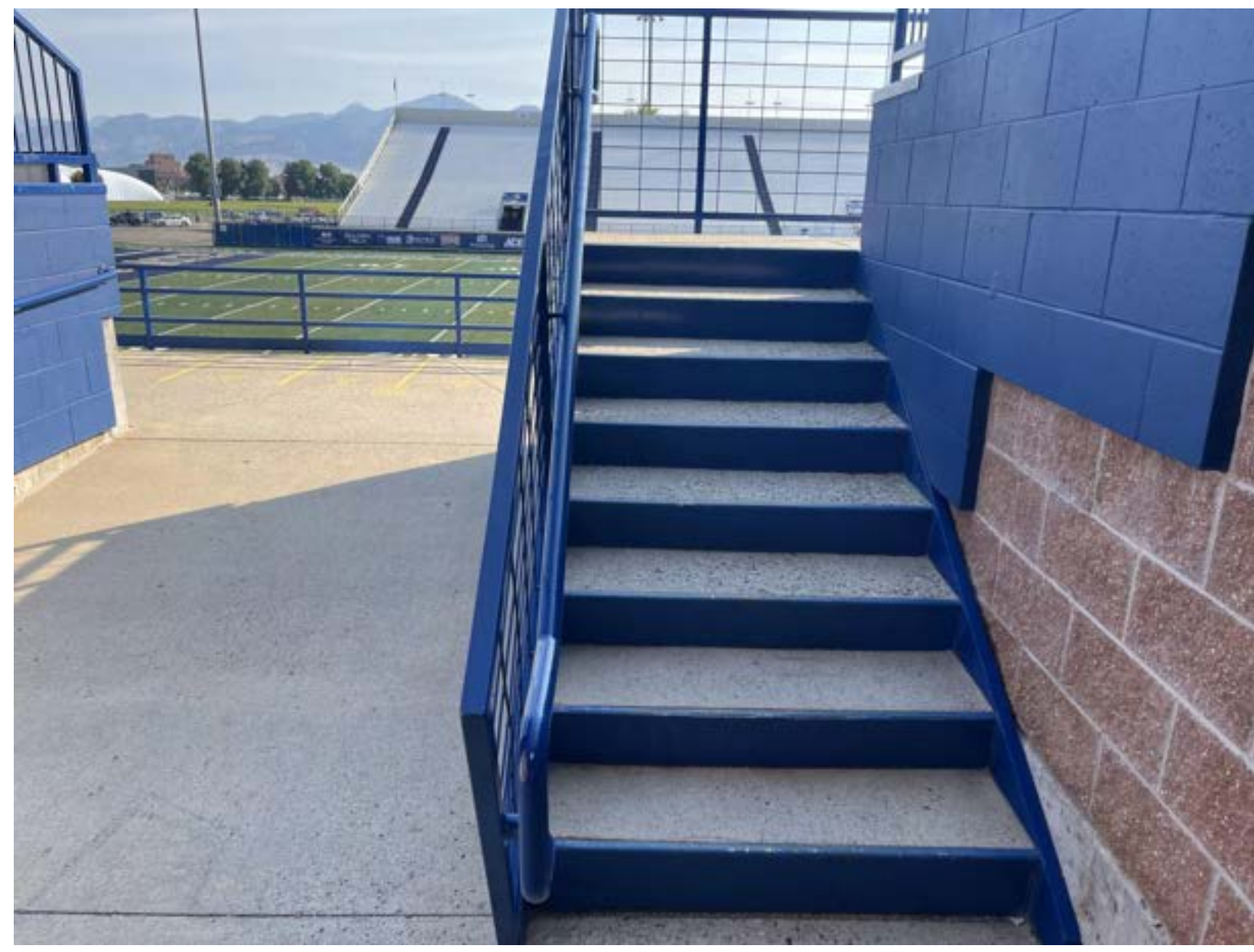
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STAIR 1



STAIR 2



STAIR 3



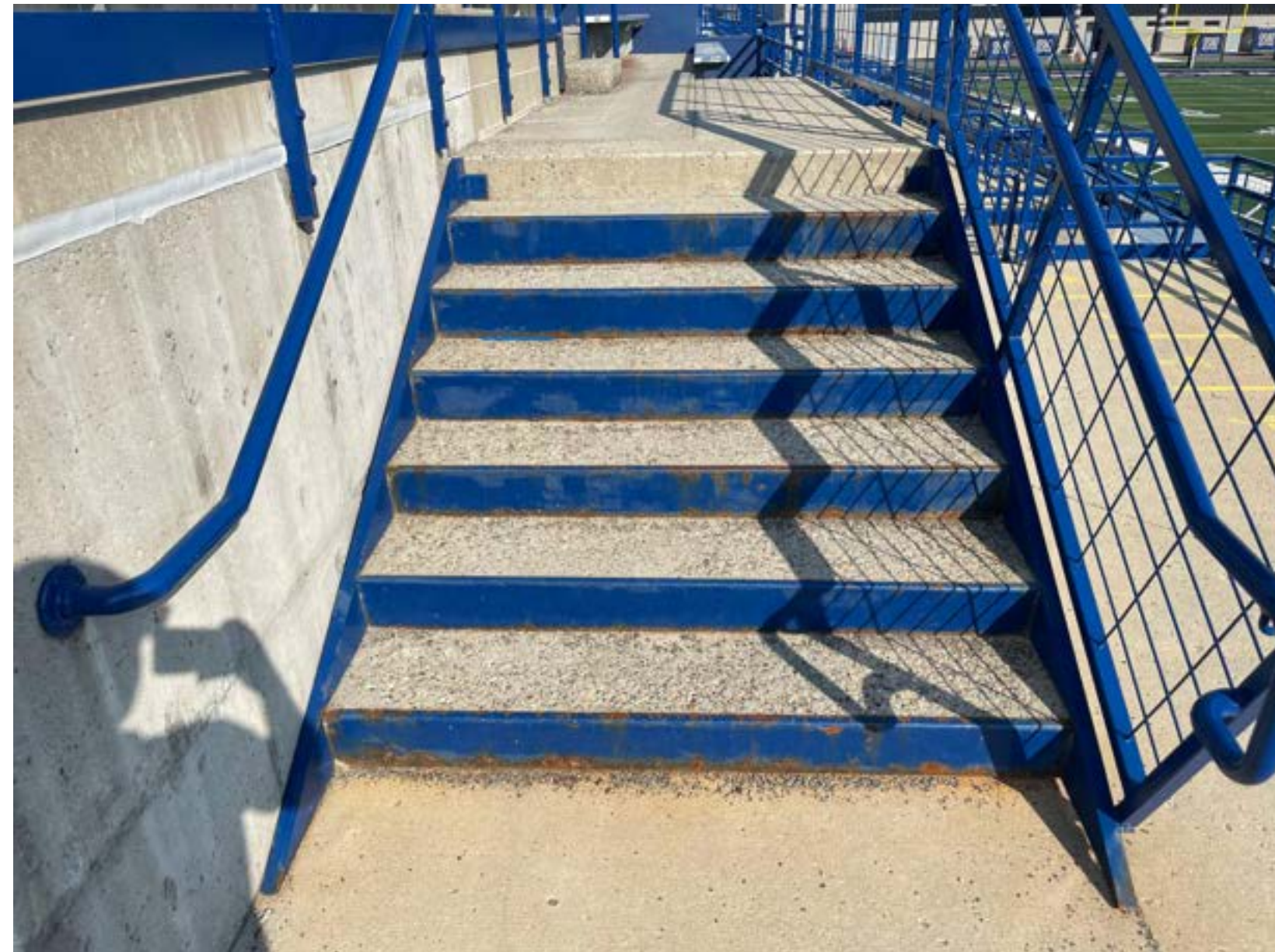
STAIR 4



STAIR 5



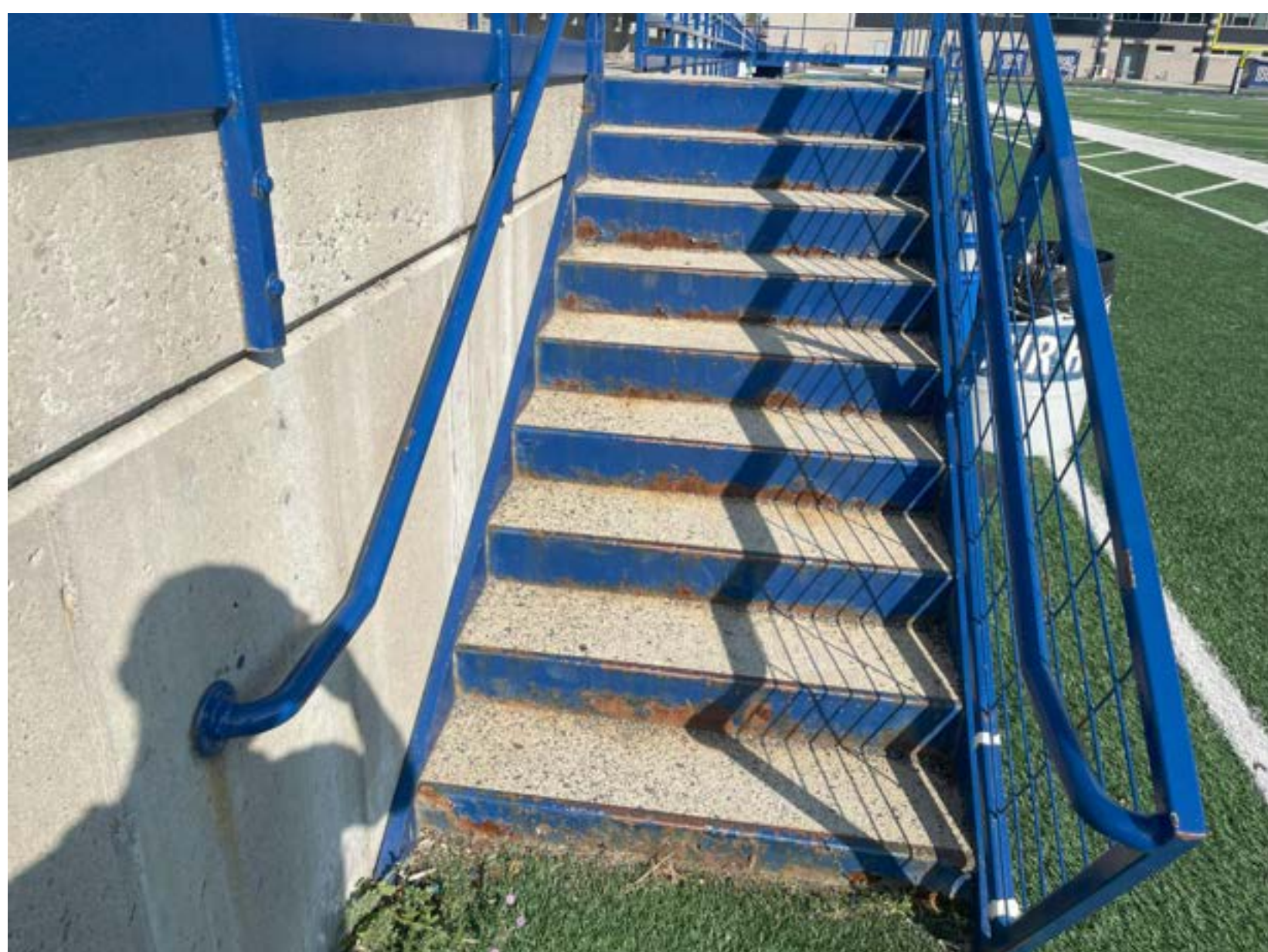
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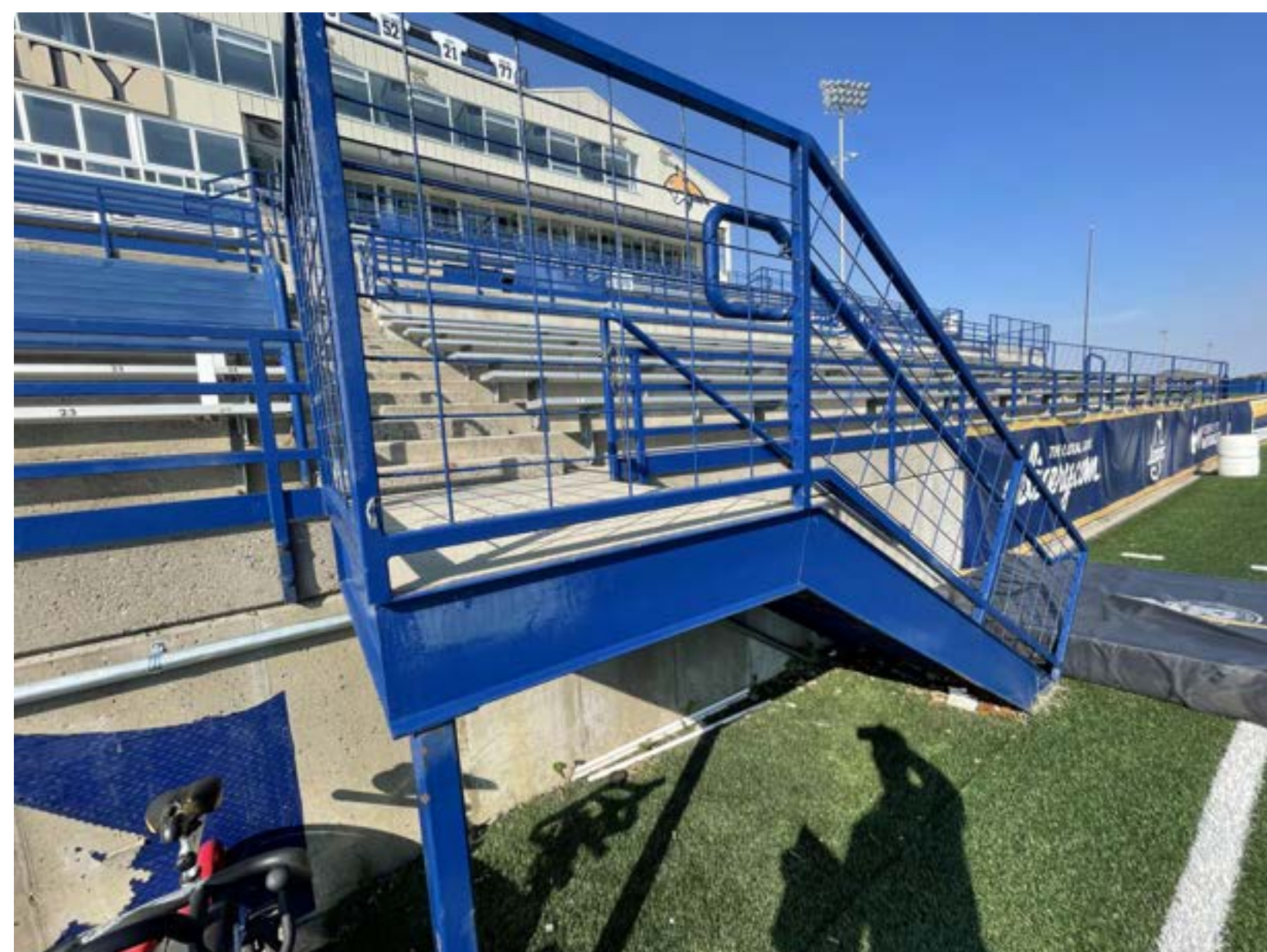
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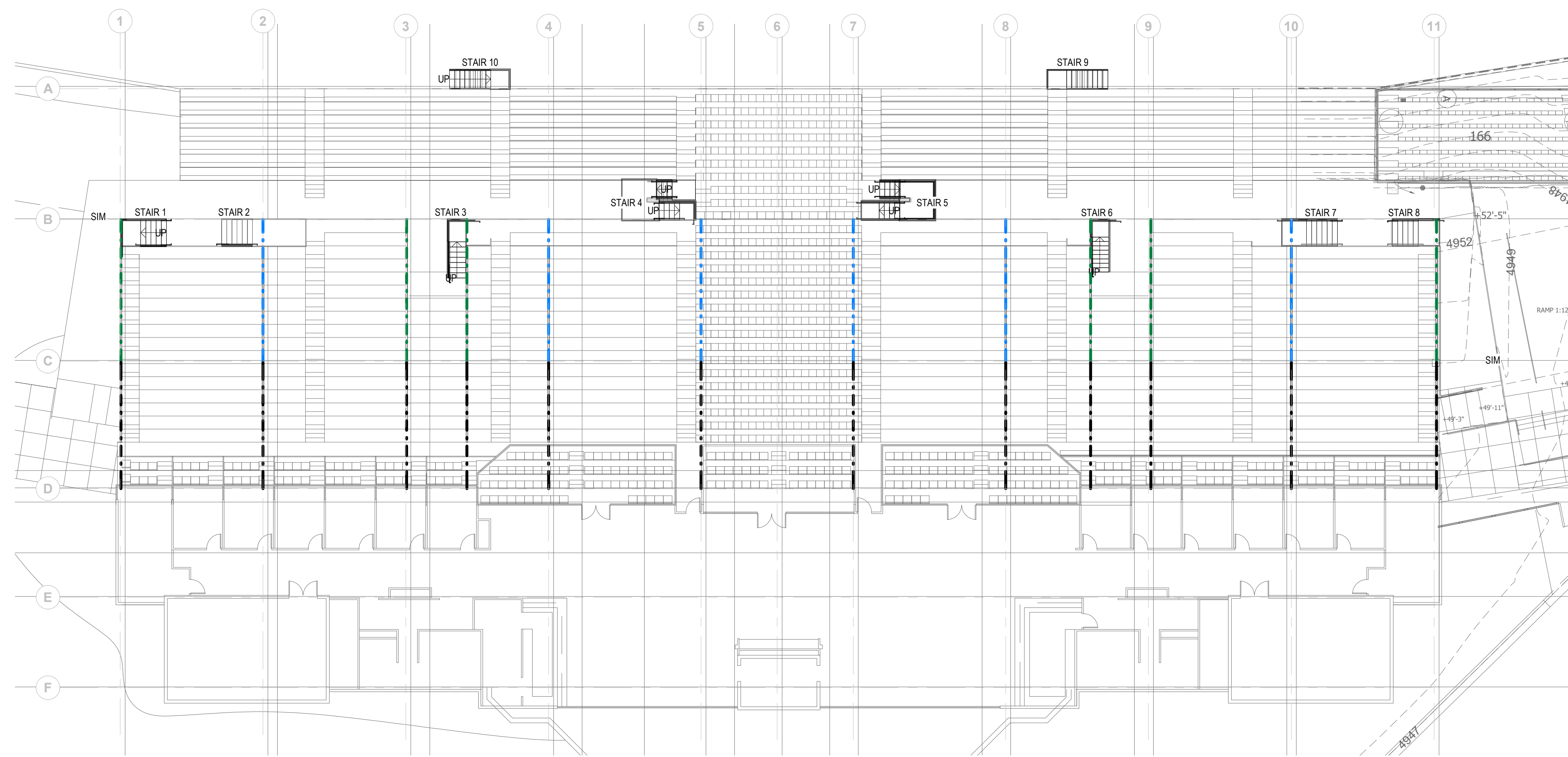
STAIR 8



STAIR 9



STAIR 10



1 BLEACHER PLAN VIEW Copy 1
1/16" = 1'-0"



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