

SCOPE OF WORK

NEW AMPHITHEATRE CONSTRUCTION AT 1801 DES MOINES ST, WEBSTER CITY, IA

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AREA STAGE AREA: 4135 SF SEATING AREA: 11864 SF
ZONING INFORMATION PARCEL NUMBER: 451-003 LOT AREA: 813,701 SF IMPERVIOUS AREA % COVERAGE: 1.96% INCREASE IN IMPERVIOUS AREA = 1,595 SF

CITY OF WEBSTER CITY ADOPTED BUILDING CODES W/ AMENDMENTS:

REFERENCED CODES AND ACTS :

2018 International Code Of Ordinances City of Webster City





ICC International Building Code 2015

ASCE 7-16 Minimum Design Load and Associated Criteria for Buildings and Other Structures 2017

ACI 318-11 Building Code Requirement for Structural Concrete 2011

National Design Specification for Wood Construction 2015

Legend

	CONCRETE
	BACKFILL
	STEEL
	WOOD

LEGEND
1/2" = 1'-0"

Abbreviations

- F = FOOTING
- BW = BEARING WALL
- P = PURLIN
- G = GIRDER



1 RENDERED VIEW
12" = 1'-0"

- A. GENERAL NOTES**
- GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL INSPECT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING FIELD CONDITIONS. ANY DISCREPANCIES BETWEEN THE ENGINEER'S DRAWINGS AND THE ACTUAL FIELD CONDITIONS MUST BE REPORTED TO THE ENGINEER PRIOR TO SUBMISSION OF BIDS OR COMMENCEMENT OF WORK.
 - ALL WORK SPECIFIED IN THE DRAWINGS SHALL BE COMPLETED IN COMPLIANCE WITH ALL GOVERNING STATE AND LOCAL CODES AND ORDINANCES. CONTRACTORS SHALL REVIEW THE CONTRACT REQUIREMENTS AND ACQUIRE ALL NECESSARY PERMITS FOR THEIR CONTRACT.
 - WORK NOT IN COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS SHALL BE REJECTED BY THE ENGINEER, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT AND UPGRADE HIS WORK AS REQUIRED.
 - ANY CHANGES OR SUBSTITUTIONS OF MATERIALS AND EQUIPMENT MUST ALSO BE REPORTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION BEGINS
 - ALL CONTRACTORS AND THE CONTRACTORS' WORK FORCE MUST OBSERVE AND FOLLOW ALL APPLICABLE SAFETY (OSHA) REQUIREMENTS. CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE TO CARRY SUFFICIENT INSURANCE FOR THE DURATION OF THE PROJECT.
 - CLEAN-UP ALL DEBRIS AND BROOM SWEEP SITE DAILY TO ASSURE A NEAT APPEARANCE.
 - GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AS PER LOCAL AUTHORITY REQUIREMENTS FOR PUBLIC SAFETY.
 - GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AND INSTALL THE SAME, ACCORDING TO STANDARD CONSTRUCTION METHODS AND/OR MANUFACTURERS' RECOMMENDATIONS, UNLESS OTHERWISE NOTED ON DRAWINGS.
 - PROVIDE ALL REQUIRED CUTTING AND REMOVAL OF EXISTING MATERIALS IN A NEAT AND WORKMANLIKE MANNER
 - ALL MATERIALS USED ON THIS PROJECT SHALL BE NEW AND OF THE BEST QUALITY.
 - THE CONTRACTOR SHALL FURNISH ALL NECESSARY SHORING, BRACING AND SUPPORTS AS NEEDED DURING THE EXECUTION OF THE WORK
 - ALL DIMENSIONS SHOWN ON THE DRAWINGS MUST BE FIELD VERIFIED BY THE GENERAL CONTRACTOR. ANY DISCREPANCIES FROM THE DIMENSIONS SHOWN MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
- B. FOUNDATION, EXCAVATION AND BACKFILL**
- THE DESIGN SOIL PRESSURE AT THE BOTTOM OF THE FOOTINGS IN THE SILTY CLAY LAYER UNDERLYING THE FILL MATERIAL IS ASSUMED TO BE 1500 P.S.F. CONTRACTOR TO VERIFY.
 - REMOVE ALL MISCELLANEOUS OR ANY OTHER UNSUITABLE BEARING MATERIAL BELOW THE BOTTOM OF WALL FOOTINGS TO THE SILTY CLAY LAYER.
 - EXCAVATED AREAS ARE TO BE KEPT DRY UNTIL ALL UNDERGROUND CONSTRUCTION IS COMPLETED.
 - BACKFILL BOTH SIDES OF THE FOUNDATION WALLS SYMMETRICALLY.
- C. CONCRETE AND REINFORCING**
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE BUILDING CODE LATEST EDITION.
 - ALL REINFORCING DETAILS SHALL BE DETAILED ACCORDING TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-315-74).
 - ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, UNLESS OTHERWISE NOTED, AND SHALL HAVE A COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF FC 4000 P.S.I OR AS SHOWN ON PLANS.

PROJECT:	1
DATE:	05/03/2019
DRAWN BY:	PS
REVISION:	

KLS ENGINEERING
4105 SEAMANS CENTER FOR THE
ENGINEERING ARTS AND SCIENCES
103 S CAPITOL ST
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WEBSTER CITY AMPHITHEATER
1801 DES MOINES ST, WEBSTER CITY, IA

SHEET NAME
COVER SHEET

SHEET NO.
G1

GENERAL NOTES

1. ALL CONSTRUCTION IS TO COMPLY TO THE CURRENT 2015 INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES. CONTACT CITY OF WEBSTER CITY TO REVIEW COPIES OF THESE CODES.
2. COORDINATE ALL WORK WITH ALL DRAWINGS. REPORT ANY CONFLICTS OR AMBIGUITY TO THE ENGINEER IMMEDIATELY SO THAT A SPEEDY RESOLUTION CAN BE DETERMINED.
3. THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS ARE RESPONSIBLE FOR PROTECTING AND SECURING THE SITE AT ALL TIMES. WORK IN PLACE IS TO BE PROTECTED TO PREVENT DAMAGE FROM THE ELEMENTS.
4. PARTIALLY INSTALLED WORK IS TO BE PROPERLY BRACED AND PROTECTED TO PREVENT DAMAGE.
5. THE GENERAL CONTRACTOR IS TO ENSURE THAT FIRE EXTINGUISHERS OR ON SITE AT ALL TIMES THROUGHOUT CONSTRUCTION. PROVIDE THE APPROPRIATE CLASS OF FIRE EXTINGUISHER, DEPENDING ON THE TYPE OF WORK BEING PERFORMED.
6. SITE ENCLOSURE FENCING, BARRICADES, WARNING LIGHTS AND SIGNS, PEST CONTROL AND SNOW AND ICE REMOVAL.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION FACILITIES INCLUDING TRASH REMOVAL, DEWATERING, PUMPING, ALL TEMPORARY ENCLOSURES, TEMPORARY HEATING, LIGHTING, ACCESS TO THE SITE, AND PORTABLE TOILET FACILITIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EASEMENTS AND SETBACKS ARE NOT ENCRACHED.
9. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUB-CONTRACTORS IN PROCURING MATERIALS AND INSTALLING SAME FOR THE PROJECT TO VERIFY THE DETAILED REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS, AS WELL AS MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS AND FULLY COMPLY WITH SAID REQUIREMENTS.
10. VERIFY THE ROUGH OPENING DIMENSIONS SHOWN ON THE DRAWINGS WITH MANUFACTURER'S DATA AND REQUIREMENTS. VERIFY FINISHED FIELD DIMENSIONS PRIOR TO ORDERING AND INSTALLING MATERIALS AND EQUIPMENT.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DAILY CLEANUP.
12. THIS CONTRACTOR SHALL COOPERATE WITH THE WORK OF ANY OTHERS THE OWNER MAY HIRE SEPARATELY SUCH AS COMMUNICATIONS, SECURITY AND LANDSCAPING.
13. ANY HAZARDOUS MATERIALS ARE TO BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) REGULATIONS AND REQUIREMENTS.
14. A COPY OF THE APPROVED PLANS ARE TO REMAIN ON THE JOB SITE AT ALL TIMES.
15. IF A WORKING BATHROOM IS NOT AVAILABLE ON SITE, THE CONTRACTOR IS TO PROVIDE A PORTABLE BATHROOM FACILITY.
16. PRIOR TO BEGINNING ANY EXCAVATION, CALL J.U.L.I.E AND ANY OTHER RELEVANT COMPANIES, TO IDENTIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND WIRING (800-892-0123).

INSURANCE REQUIREMENTS

1. CONTRACTOR'S INSURANCE:

A. LIABILITY INSURANCE SHALL INCLUDE ALL MAJOR DIVISIONS OF COVERAGE AND BE ON A COMPREHENSIVE BASIS INCLUDING:

- a. PREMISE OPERATIONS (INCLUDING X-C/U AS APPLICABLE).
- b. INDEPENDENT CONTRACTOR'S PROTECTIVE.
- c. PRODUCTS AND COMPLETED OPERATIONS.
- d. PERSONAL INJURY LIABILITY WITH EMPLOYMENT EXCLUSION DELETED.
- e. CONTRACTUAL.
- f. OWNED, NON-OWNED AND HIRED MOTOR VEHICLES
- g. BROAD FORM PROPERTY DAMAGE INCLUDING COMPLETED OPERATIONS

B. THE INSURANCE SHALL BE WRITTEN FOR NOT LESS THAN THE FOLLOWING, OR GREATER IF REQUIRED BY LAW.

- a. WORKMEN'S COMPENSATION AND OCCUPATIONAL DISEASES FOR STATUTORY LIMITS.
- b. EMPLOYER'S LIABILITY \$1,000,000 (COVERAGE B)

C. COMPREHENSIVE GENERAL LIABILITY

- a. GENERAL COVERAGE (INCLUDING BROAD FORM PROPERTY DAMAGE):

COMBINED BODILY \$1,000,000 EACH OCCURRENCE AND PROPERTY \$1,000,000 AGGREGATE INJURY DAMAGE

D. THE BUILDING OWNER, CLIENTS, AND THE ARCHITECT, SHALL BE NAMED AS "ADDITIONAL INSURED'S" ON THE CONTRACTOR'S COMPREHENSIVE GENERAL LIABILITY POLICY. IF THE "ADDITIONAL INSURED'S" HAVE OTHER INSURANCE WHICH IS APPLICABLE TO THE LOSS, IT SHALL BE ON AN EXCESS OR CONTINGENT BASIS. THE AMOUNT OF THE COMPANY'S LIABILITY UNDER THIS POLICY SHALL NOT BE REDUCED BY THE EXISTENCE OF SUCH OTHER INSURANCE. A CERTIFICATE OF INSURANCE MUST BE SUBMITTED THE THE ARCHITECT AND OWNERS PRIOR TO BEGINNING ANY WORK

Lumber Specifications

Roof Sheathing

40/20 T&G structural plywood panels with a thickness of 15/32" (No edge support)

Purlins (P1&G3)

2x10 Dimensional Lumber Southern Pine No. 1 Grade

Beams (G1)

5.5x27.75 Southern Pine with a stress class of 24F-1.8E

Girders (G2)

8.5x44 Southern Pine with a stress class of 24F-1.8E

Design Loads

Live Loads

Roof live load: 20 psf
Stage live load: 150 psf

Dead Loads

Roof dead load: 13.3 psf
Wall dead load: 1.8 klf
Column dead load: 5 psf
Slab dead load: 75psf

Snow Loads

Roof snow load: 2.5 psf

Wind Loads

MWFRS: 17 psf
Uplift: 22 psf

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WEBSTER CITY AMPHITHEATER

1801 DES MOINES ST., WEBSTER CITY, IA

SHEET NAME

NOTES

SHEET NO.

G2

STRUCTURAL FOUNDATION MATERIAL TAKOFF				
Type	Material: Unit weight	Material: Volume	Weight	Count
F1	150.28 lb/ft ³	40.04 CF	2.73 Tf	1
F1	150.28 lb/ft ³	40.04 CF	2.73 Tf	1
F3	150.28 lb/ft ³	925.31 CF	63.08 Tf	1
F2	150.28 lb/ft ³	62.34 CF	4.25 Tf	1
F2	150.28 lb/ft ³	62.34 CF	4.25 Tf	1

STRUCTURAL FOUNDATION SCHEDULE				
Type	Foundation Thickness	Width	Length	Count
F1	0' - 8"	7' - 9"	7' - 9"	1
F1	0' - 8"	7' - 9"	7' - 9"	1
F3	1' - 3"	10' - 6"	58' - 10"	1
F2	1' - 3"	10' - 6"	10' - 7"	1
F2	1' - 3"	10' - 6"	10' - 7"	1

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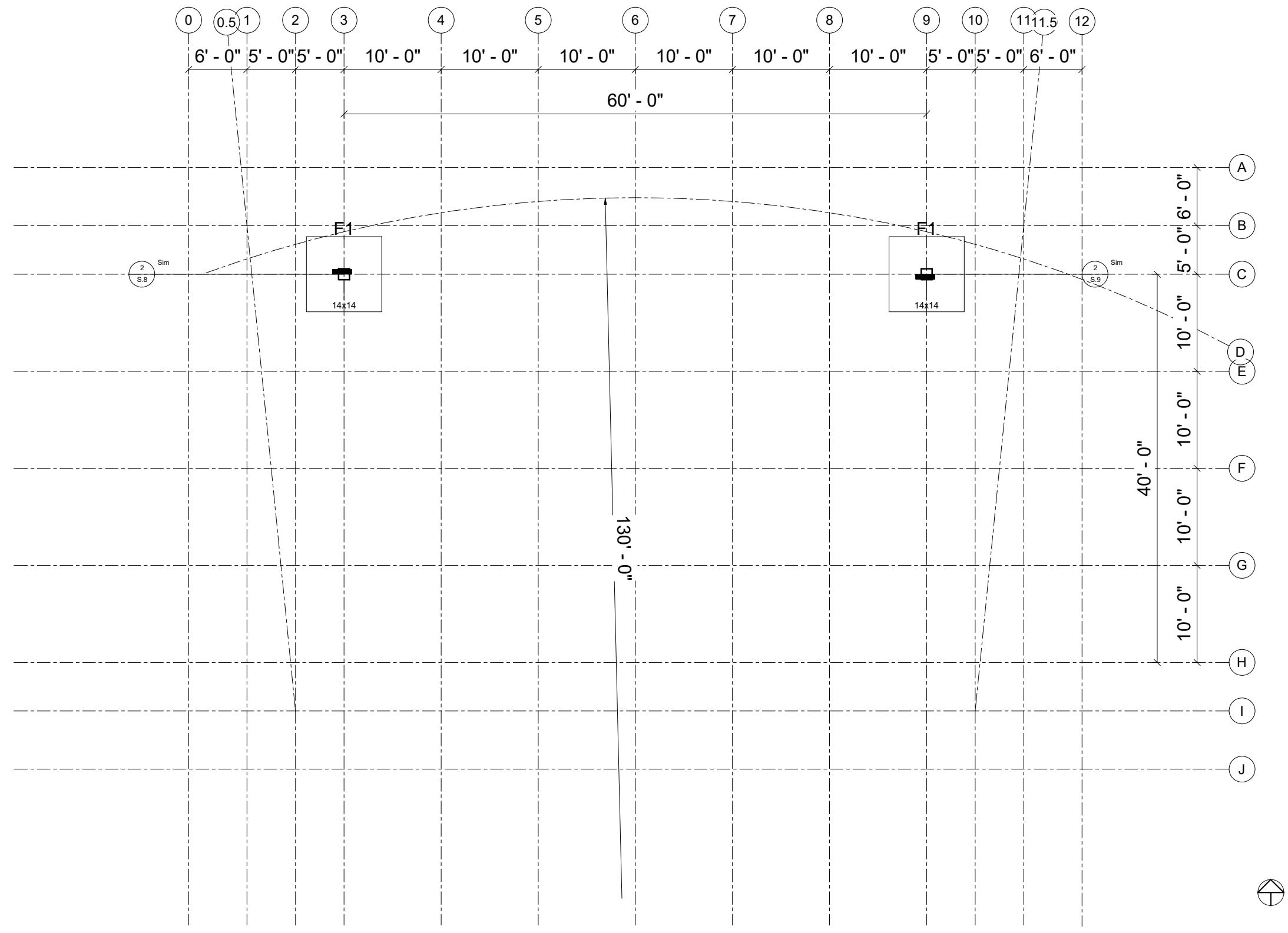
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SHEET NAME

FOUNDATION PLAN

SHEET NO.

S1



1 TOP OF COLUMN FOOTING
3/16" = 1'-0"

STRUCTURAL FOUNDATION MATERIAL TAKOFF				
Type	Material: Unit weight	Material: Volume	Weight	Count
F1	150.28 lb/ft³	40.04 CF	2.73 Tf	1
F1	150.28 lb/ft³	40.04 CF	2.73 Tf	1
F3	150.28 lb/ft³	925.31 CF	63.08 Tf	1
F2	150.28 lb/ft³	62.34 CF	4.25 Tf	1
F2	150.28 lb/ft³	62.34 CF	4.25 Tf	1

STRUCTURAL FOUNDATION SCHEDULE				
Type	Foundation Thickness	Width	Length	Count
F1	0' - 8"	7' - 9"	7' - 9"	1
F1	0' - 8"	7' - 9"	7' - 9"	1
F3	1' - 3"	10' - 6"	58' - 10"	1
F2	1' - 3"	10' - 6"	10' - 7"	1
F2	1' - 3"	10' - 6"	10' - 7"	1

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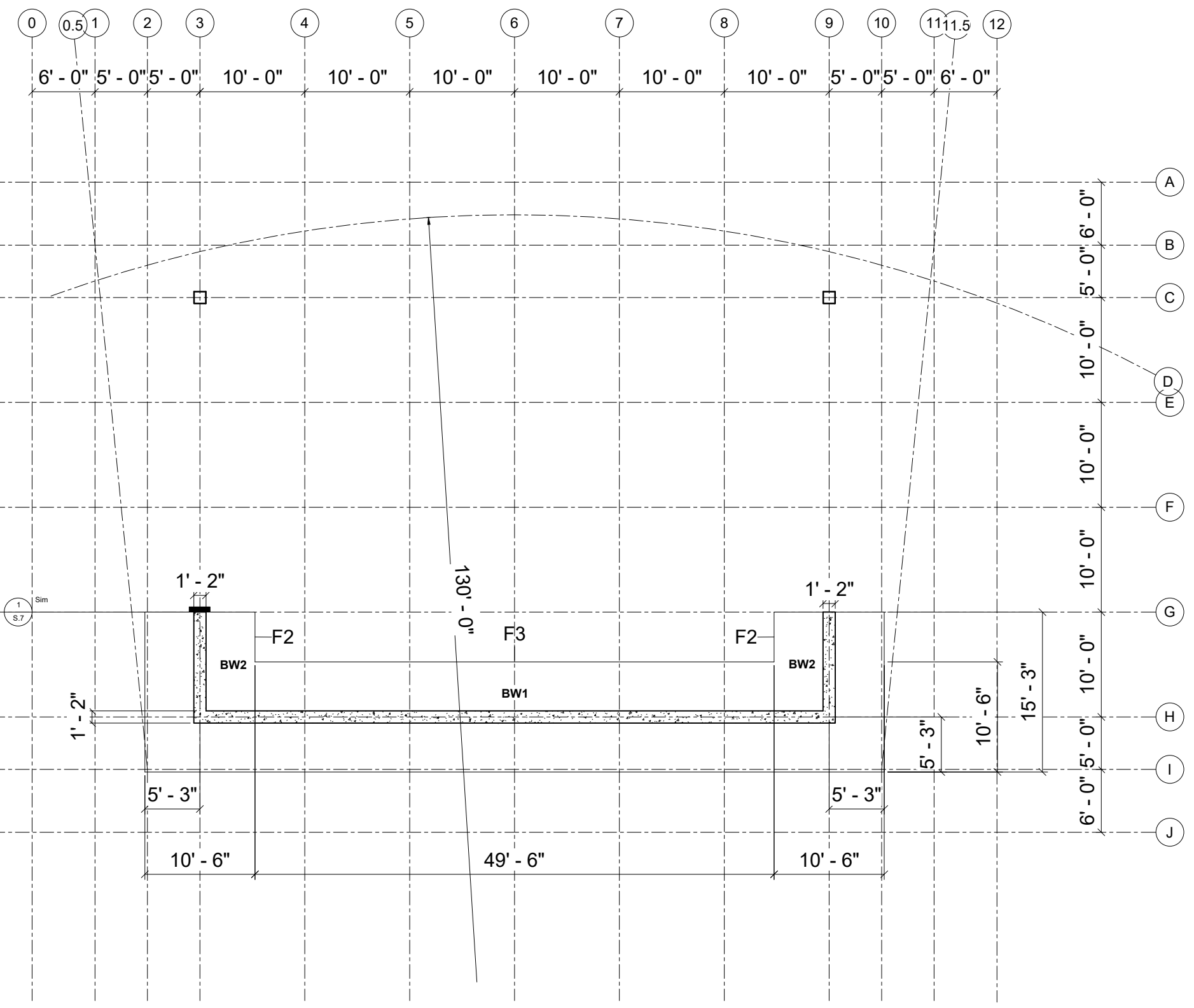
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SHEET NAME

FOUNDATION PLAN

SHEET NO.

S2



1 TOP OF BW FOOTING
 3/16" = 1'-0"



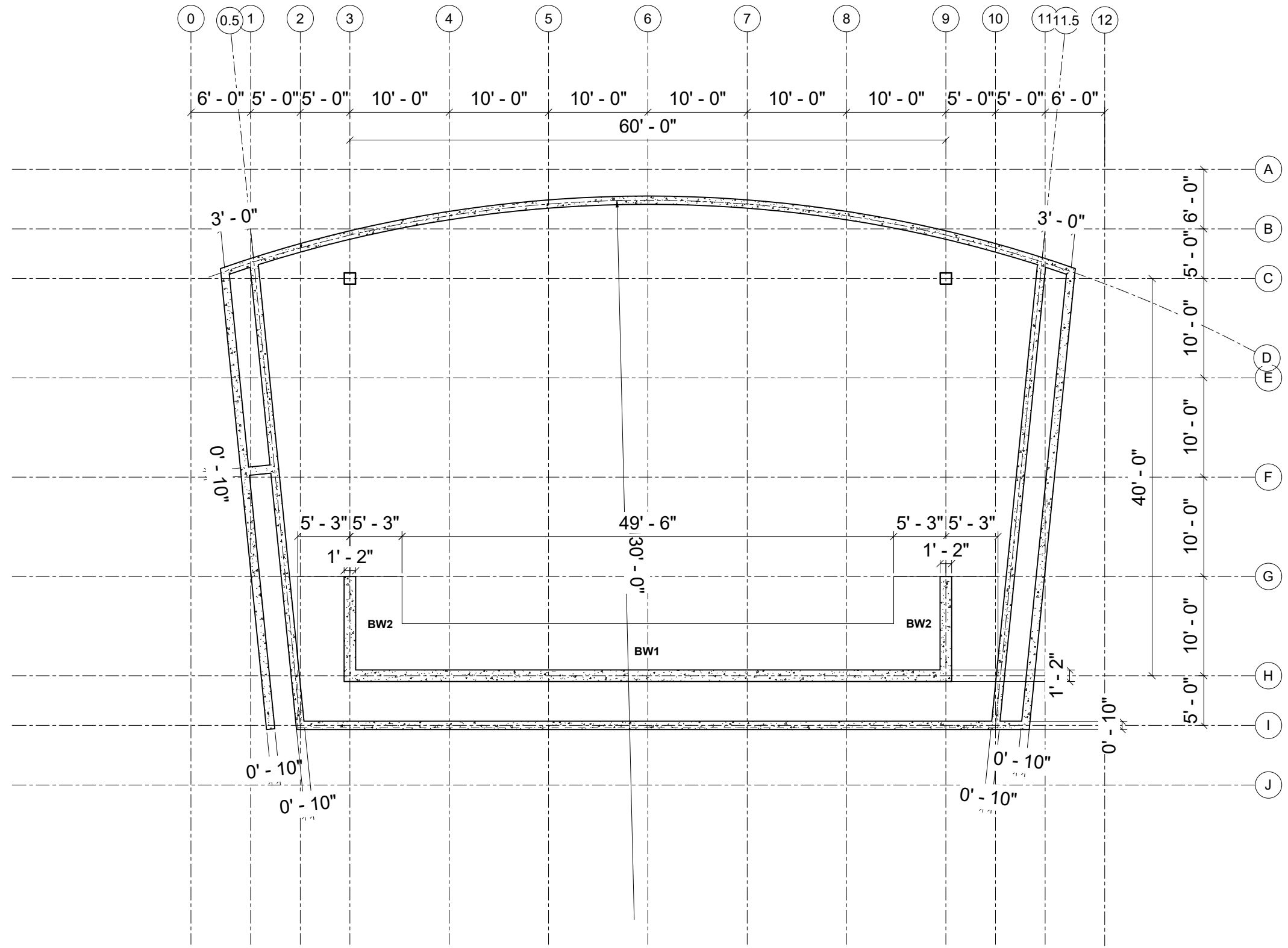
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 1801 DES MOINES ST., WEBSTER CITY, IA

SHEET NAME
 FROST
 WALL PLAN

SHEET NO.

S3

WALL MATERIAL TAKEOFF						
Type	Structural Material	Material: Unit weight	Volume	Weight	Width	Area
BW1	Concrete, Cast-in-Place gray	150.28 lb/ft³	148.17 CF	10.10 Tf	1' - 2"	127 SF
BW1	Concrete, Cast-in-Place gray	150.28 lb/ft³	148.17 CF	10.10 Tf	1' - 2"	127 SF
BW1	Concrete, Cast-in-Place gray	0.00 lb/ft³	148.17 CF	0.00 Tf	1' - 2"	127 SF
BW1	Concrete, Cast-in-Place gray	150.28 lb/ft³	840.00 CF	57.26 Tf	1' - 2"	720 SF
BW1	Concrete, Cast-in-Place gray	0.00 lb/ft³	840.00 CF	0.00 Tf	1' - 2"	720 SF
BW1	Concrete, Cast-in-Place gray	150.28 lb/ft³	131.83 CF	8.99 Tf	1' - 2"	113 SF
BW1	Concrete, Cast-in-Place gray	150.28 lb/ft³	131.83 CF	8.99 Tf	1' - 2"	113 SF
BW1	Concrete, Cast-in-Place gray	0.00 lb/ft³	131.83 CF	0.00 Tf	1' - 2"	113 SF
BW1	Concrete, Cast-in-Place gray	150.28 lb/ft³	463.31 CF	31.58 Tf	1' - 2"	397 SF
BW 2	Concrete, Cast-in-Place gray	150.28 lb/ft³	83.34 CF	5.68 Tf	1' - 2"	71 SF
BW 2	Concrete, Cast-in-Place gray	150.28 lb/ft³	83.34 CF	5.68 Tf	1' - 2"	71 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	224.81 CF	15.32 Tf	0' - 10"	271 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	349.86 CF	23.85 Tf	0' - 10"	420 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	220.80 CF	15.05 Tf	0' - 10"	266 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	419.91 CF	28.62 Tf	0' - 10"	504 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	419.91 CF	28.62 Tf	0' - 10"	504 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	66.12 CF	4.51 Tf	0' - 10"	80 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	150.33 CF	10.25 Tf	0' - 10"	181 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	99.12 CF	6.76 Tf	0' - 10"	119 SF
Exterior - 10" Concrete	Concrete, Cast-in-Place gray	150.28 lb/ft³	9.48 CF	0.65 Tf	0' - 10"	11 SF



1 FROST WALL
 3/16" = 1'-0"



STRUCTURAL COLUMN SCHEDULE

Type	Length	Count
14x14	4' - 0"	7
14x14	37' - 1"	2

FLOOR MATERIAL TAKEOFF

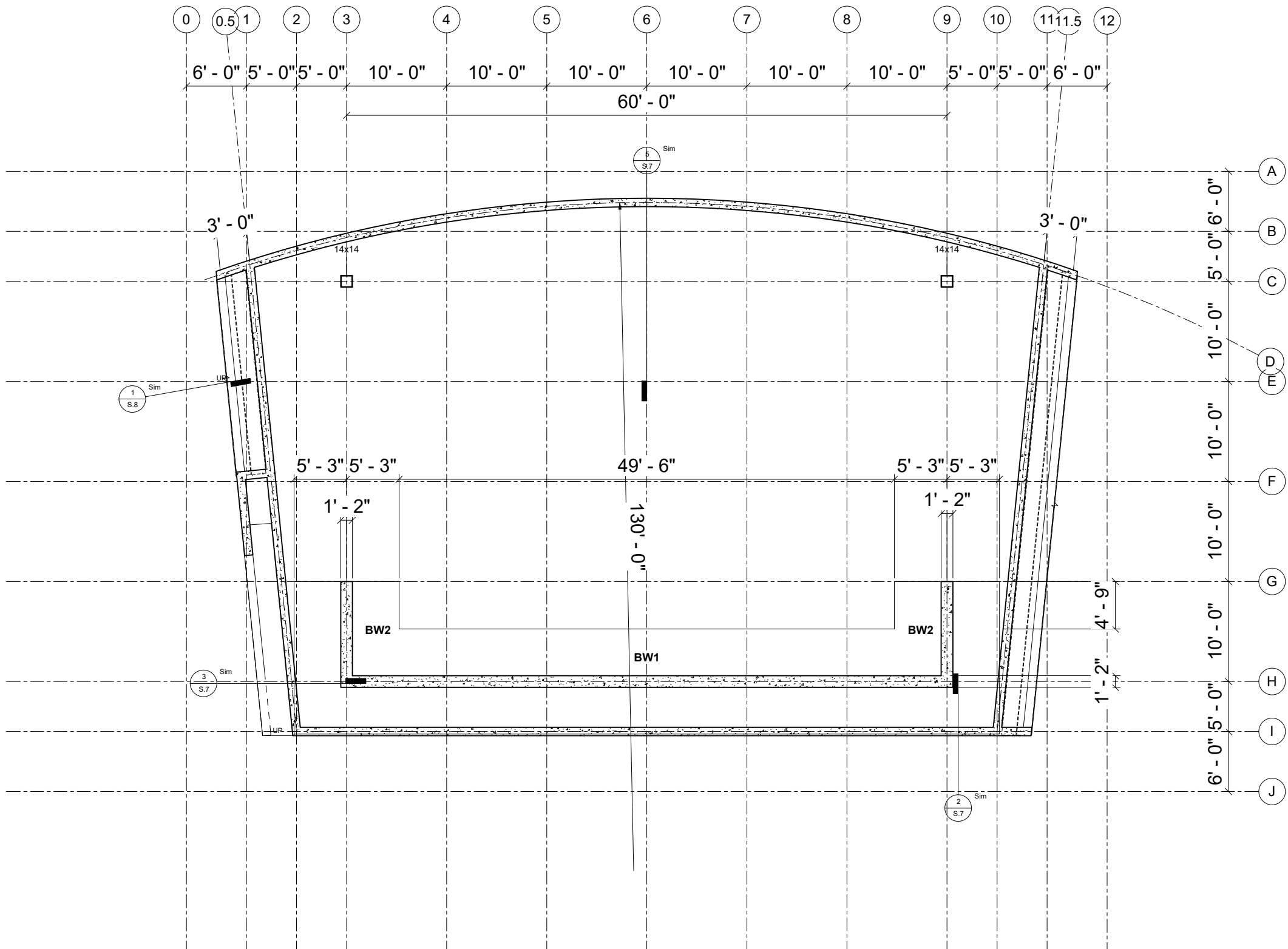
Type	Material: Name	Material: Volume
7.75" Concrete	Concrete, Cast-in-Place gray	10.61 CF
4"	Concrete, Cast-in-Place gray	1271.99 CF

STRUCTURAL COLUMN MATERIAL TAKEOFF

Type	Structural Material	Material: Unit weight	Volume	Weight	Length	Count
14x14	Softwood, Lumber	34.90 lb/ft ³	5.06 CF	0.08 Tf	4' - 0"	7
14x14	Softwood, Lumber	34.90 lb/ft ³	46.93 CF	0.74 Tf	37' - 1"	2

WALL MATERIAL TAKEOFF

Type	Structural Material	Material: Unit weight	Volume	Weight	Width	Area
BW1	Concrete, Cast-in-Place gray	150.28 lb/ft ³	148.17 CF	10.10 Tf	1' - 2"	127 SF
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BW1	Concrete, Cast-in-Place gray	150.28 lb/ft ³	840.00 CF	57.26 Tf	1' - 2"	720 SF
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WEBSTER CITY AMPHITHEATER
 1801 DES MOINES ST., WEBSTER CITY, IA

SHEET NAME
 GROUND FRAMING PLAN

SHEET NO.
S4

1 GROUND
 3/16" = 1'-0"



STRUCTURAL FRAMING SCHEDULE	
Type	Count
G1	7
G2	1
G3	1
P1	90

STRUCTURAL FRAMING MATERIAL TAKEOFF							
Type	Structural Material	Description	Cut Length	Material: Unit weight	Volume	Weight	Count
G1	Softwood, Lumber	5.5"x24.75"	40' - 8 3/8"	34.90 lb/ft³	38.47 CF	0.61 Tf	4
G1	Softwood, Lumber	5.5"x24.75"	40' - 10 1/8"	34.90 lb/ft³	38.61 CF	0.61 Tf	1
G1	Softwood, Lumber	5.5"x24.75"	40' - 10 1/4"	34.90 lb/ft³	38.62 CF	0.61 Tf	2
G2	Softwood, Lumber	8.5"x44"	58' - 10 1/2"	34.90 lb/ft³	152.91 CF	2.42 Tf	1
G3	Softwood, Lumber	2X10	58' - 10 1/2"	34.90 lb/ft³	5.67 CF	0.09 Tf	1
P1	Softwood, Lumber	2X10	9' - 6 1/2"	34.90 lb/ft³	0.92 CF	0.01 Tf	90

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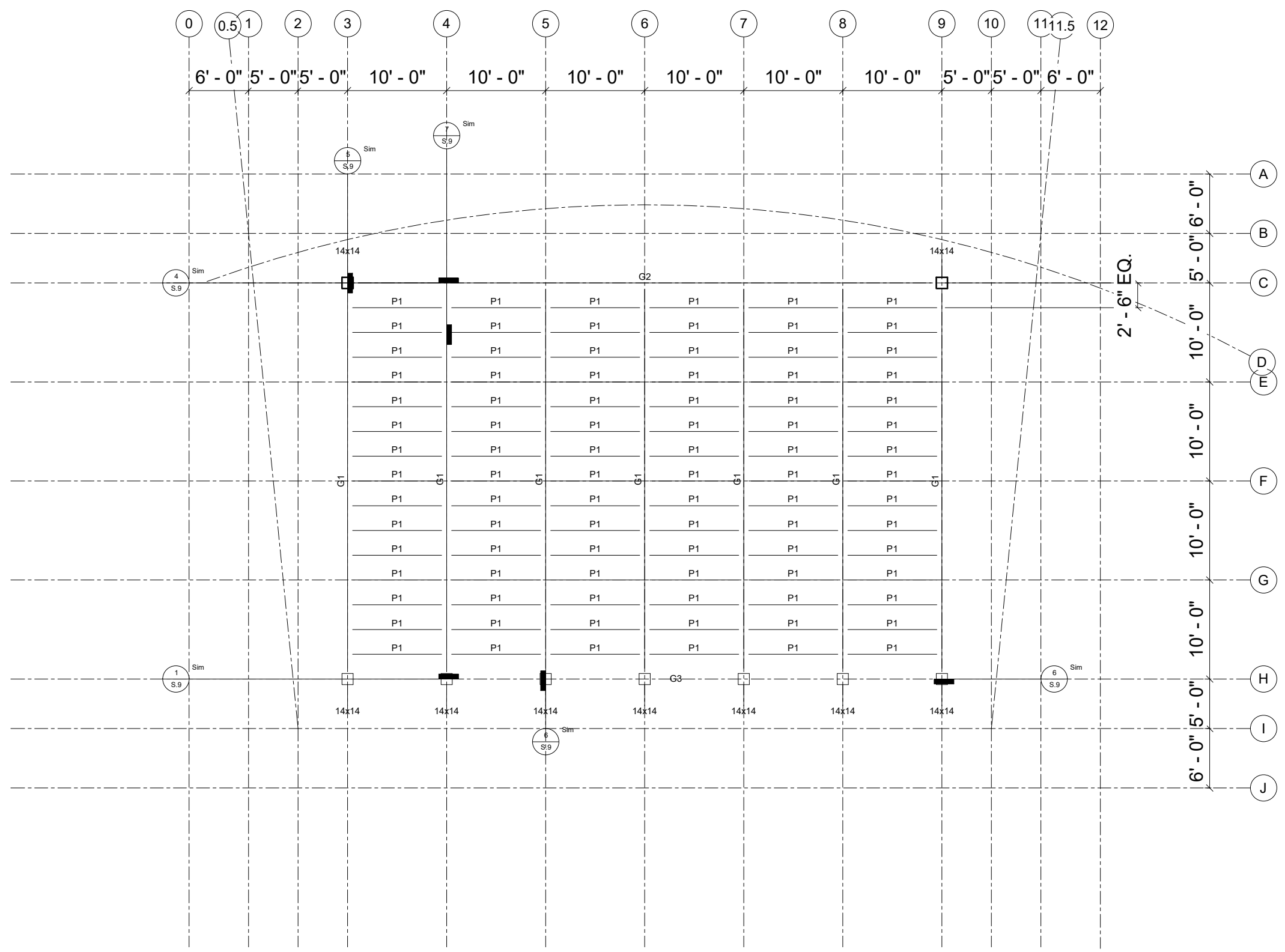


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1801 DES MOINES ST., WEBSTER CITY, IA

SHEET NAME
ROOF FRAMING PLAN

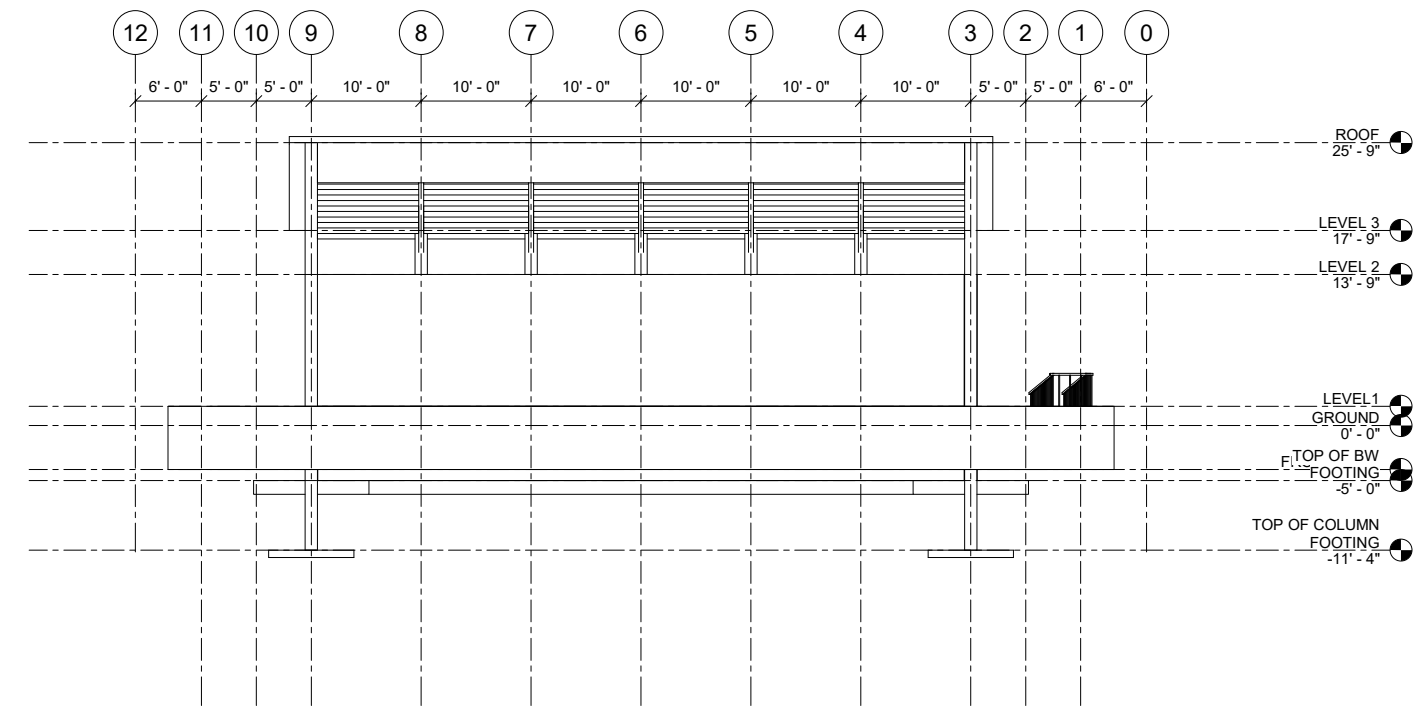
SHEET NO.

S5

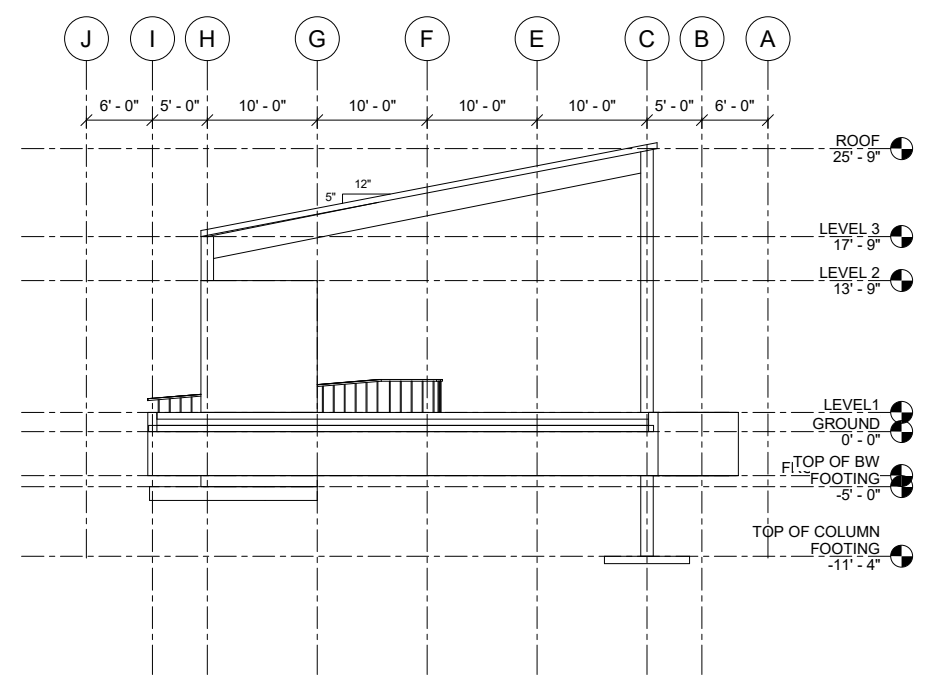


1 ROOF
3/16" = 1'-0"

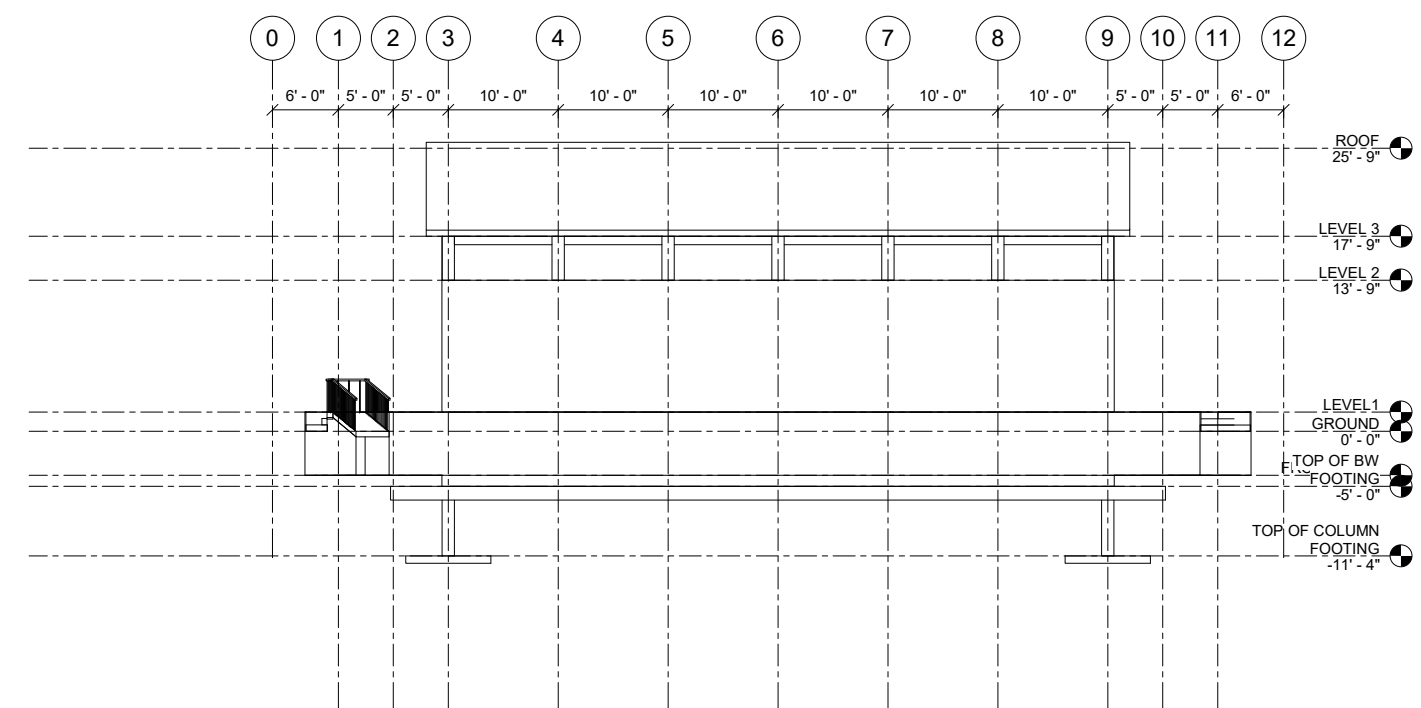




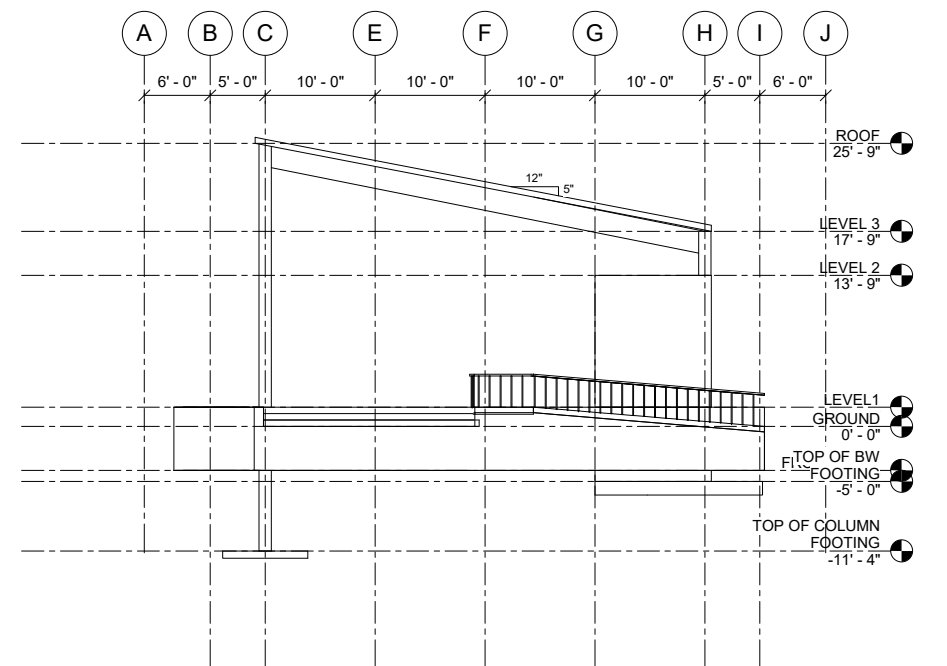
1 NORTH
1/8" = 1'-0"



3 EAST
1/8" = 1'-0"



2 SOUTH
1/8" = 1'-0"



4 WEST
1/8" = 1'-0"

PROJECT:	1
DATE:	05/03/2019
DRAWN BY:	PS
REVISION:	

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 4105 SEAMANS CENTER FOR THE
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 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: nicholas@klsu.iowa.edu



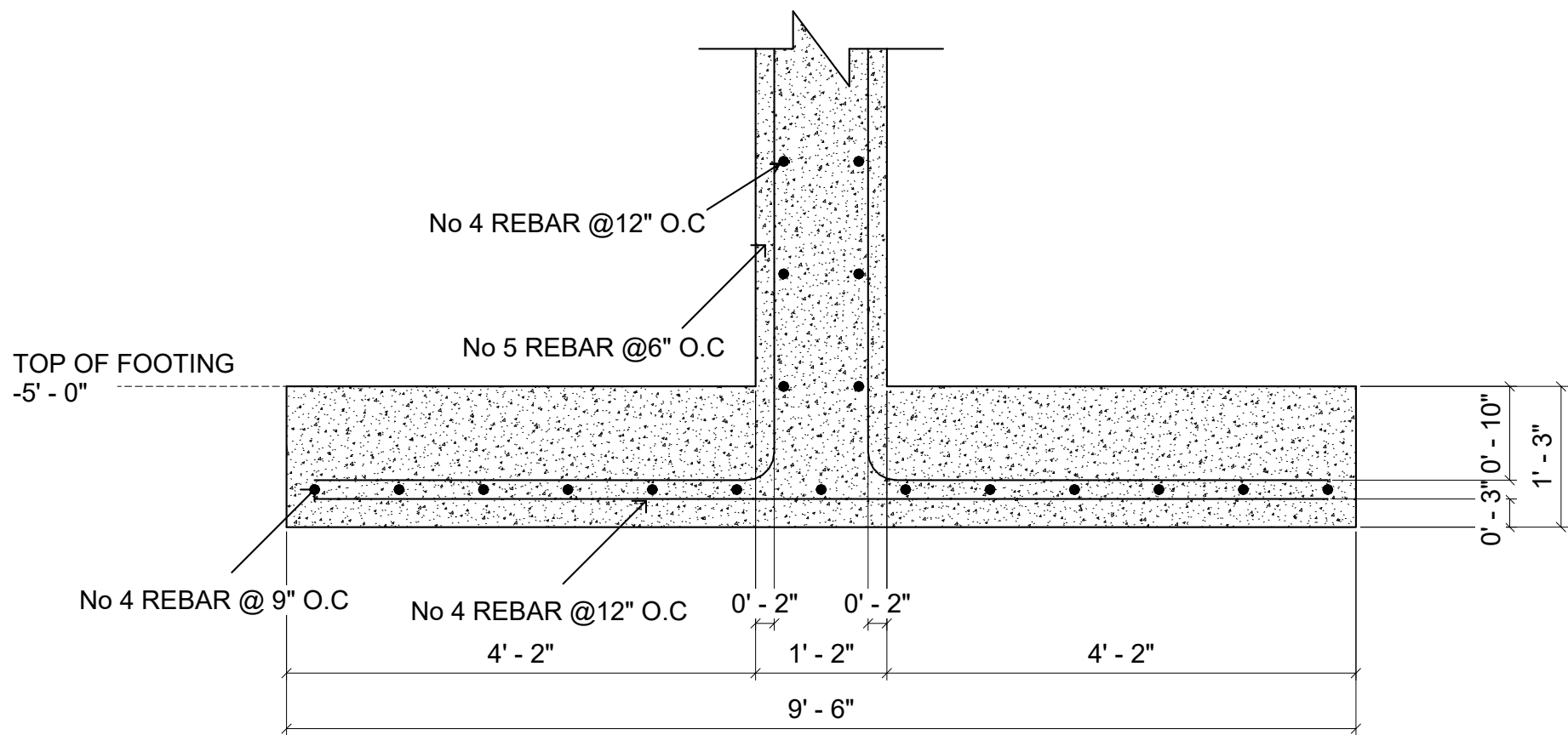
WEBSTER CITY AMPHITHEATER
 1801 DES MOINES ST., WEBSTER CITY, IA

SHEET NAME

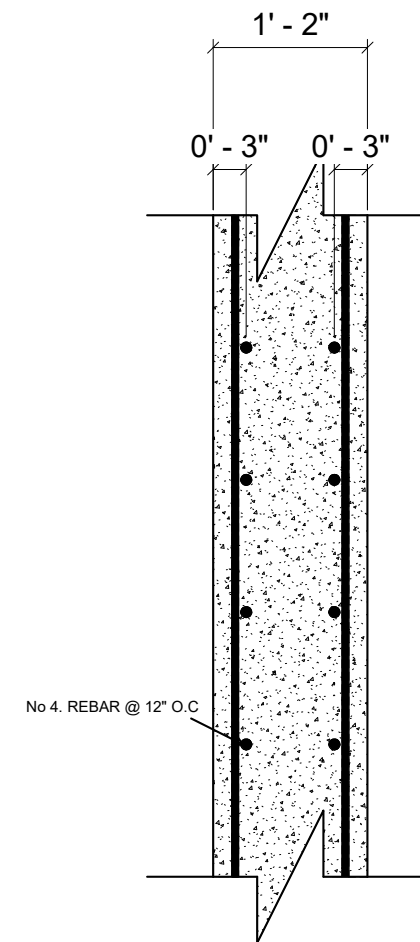
ELEVATIONS

SHEET NO.

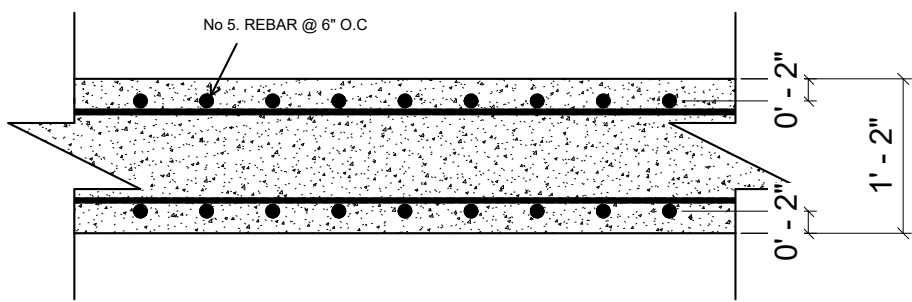
S6



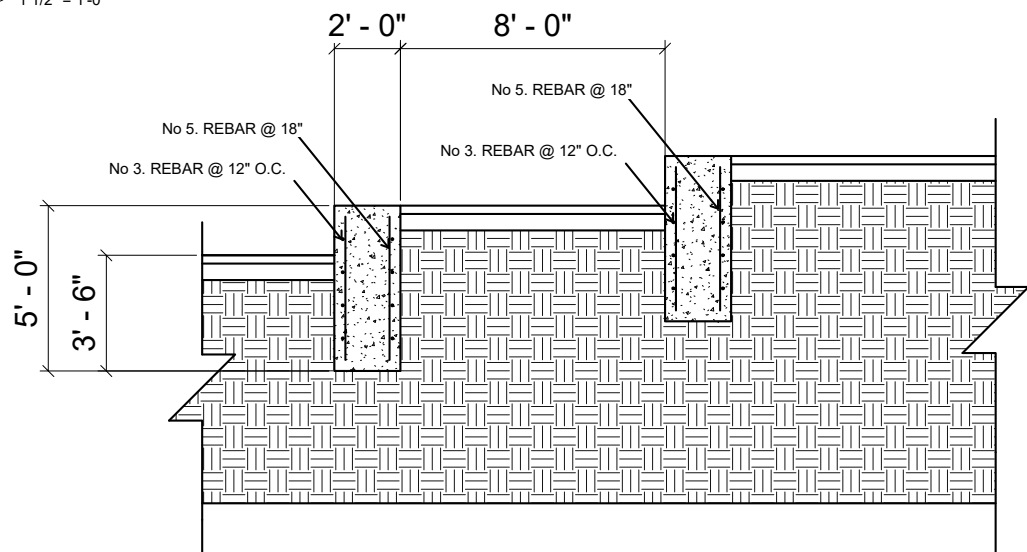
1 BEARING WALL FOOTING DETAIL
1 1/2" = 1'-0"



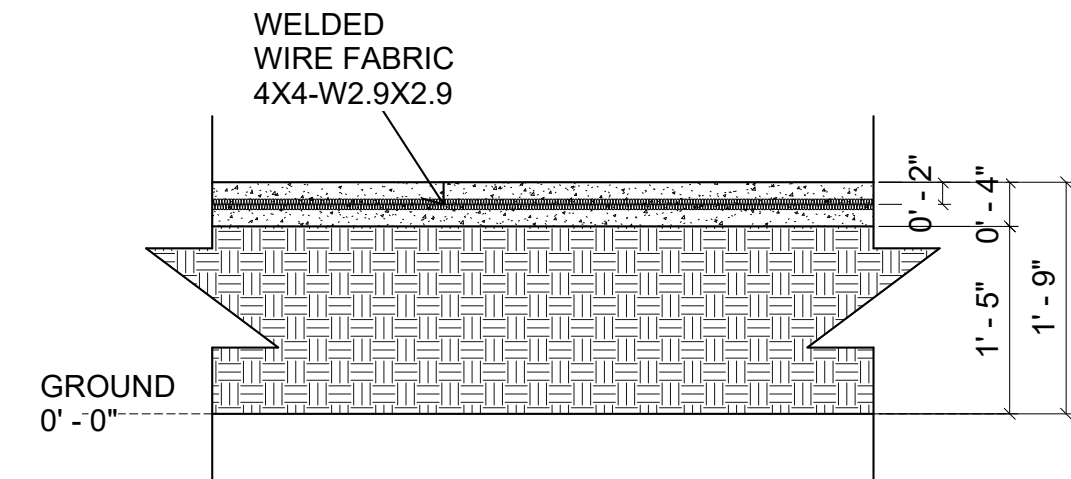
2 SIDE OF BEARING WALL DETAIL
1 1/2" = 1'-0"



3 TOP OF BEARING WALL DETAIL
1 1/2" = 1'-0"



4 SEATING DETAIL
3/8" = 1'-0"



5 SLAB DETAIL
1 1/2" = 1'-0"

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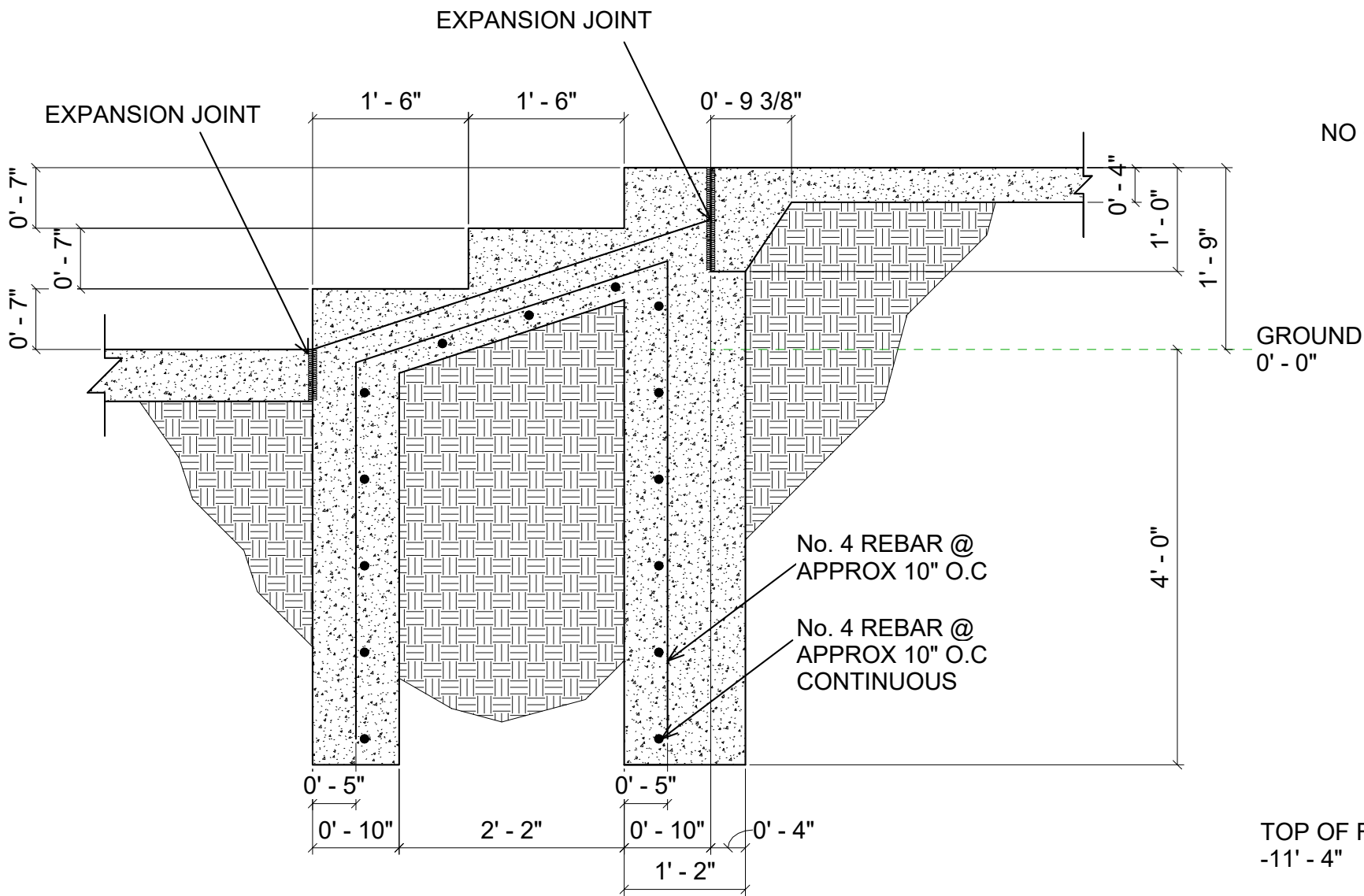


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SHEET NAME
DETAILS

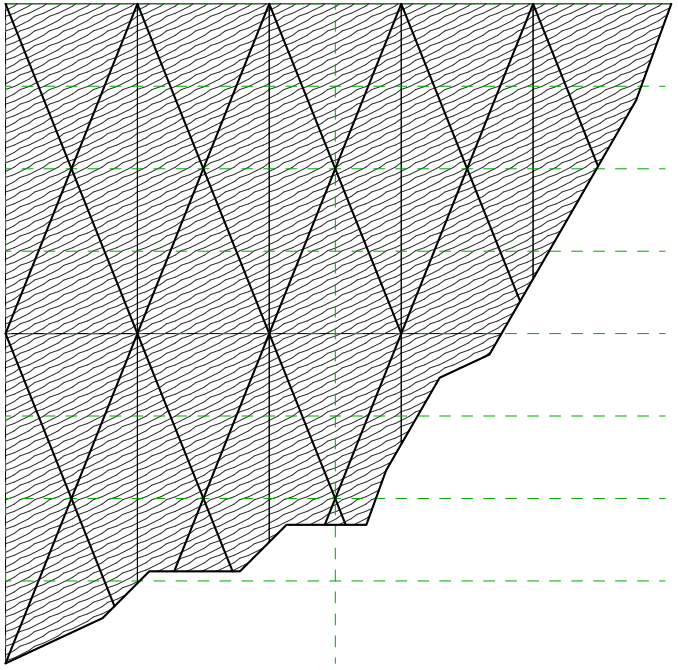
SHEET NO.

S7

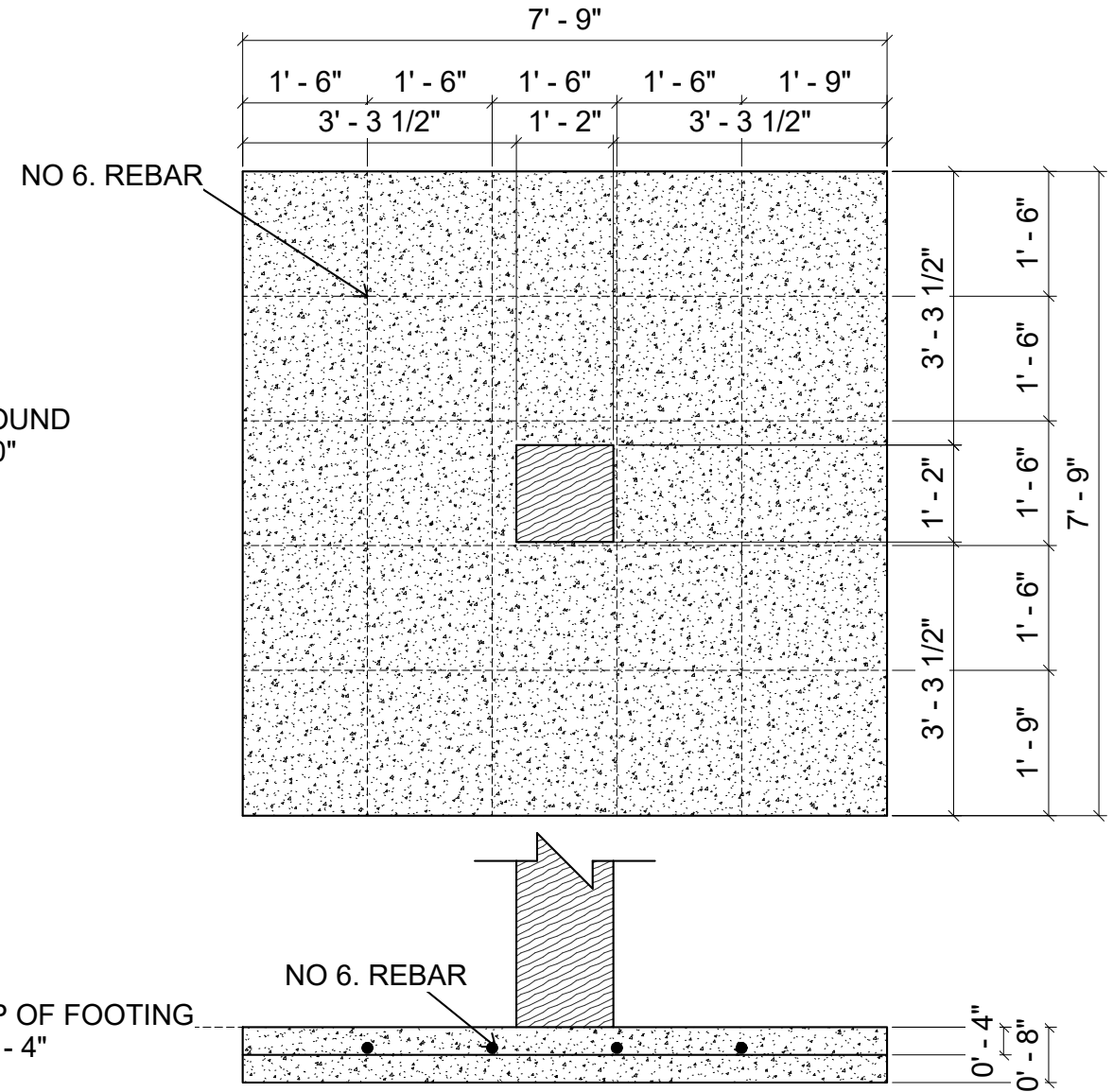


① STAIR DETAIL
1 1/2" = 1'-0"

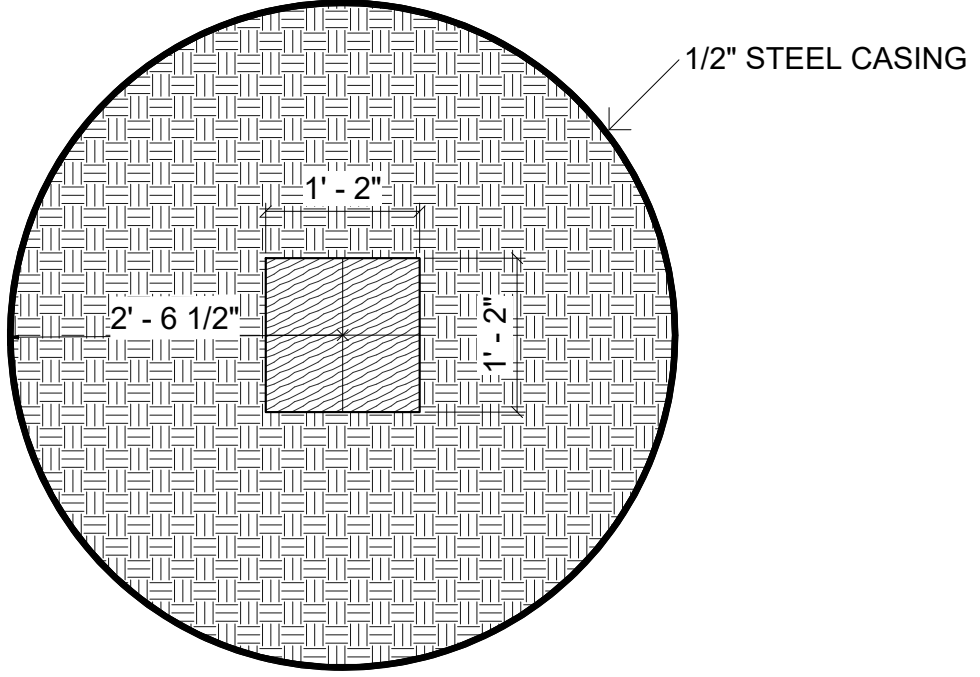
ROOF SHEATHING INFORMATION
SHEATHING: 40/20 15/32" PLYWOOD
NAIL SIZE: 10d
SUPPORTED EDGE NAILING: 6"
FIELD NAILING: 12"
DIAPHRAGM BOUNDARY NAILING: 6"
BLOCKING: NO



③ ROOF SHEATHING DETAIL
3/8" = 1'-0"



② COLUMN FOOTING DETAIL
1" = 1'-0"



④ CASING DETAIL
1 1/2" = 1'-0"

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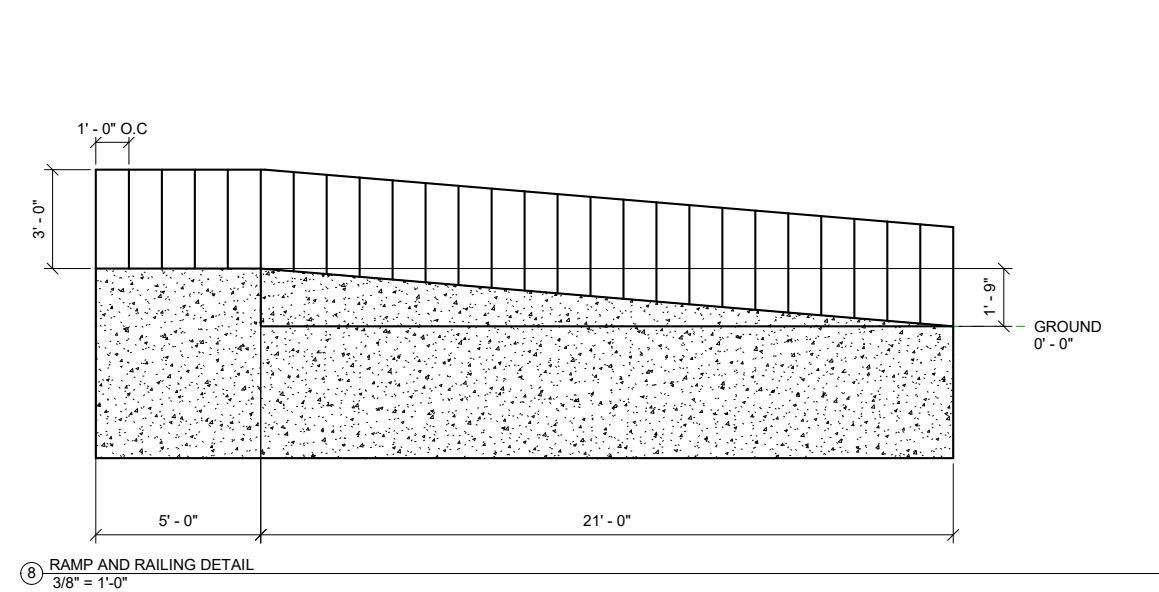
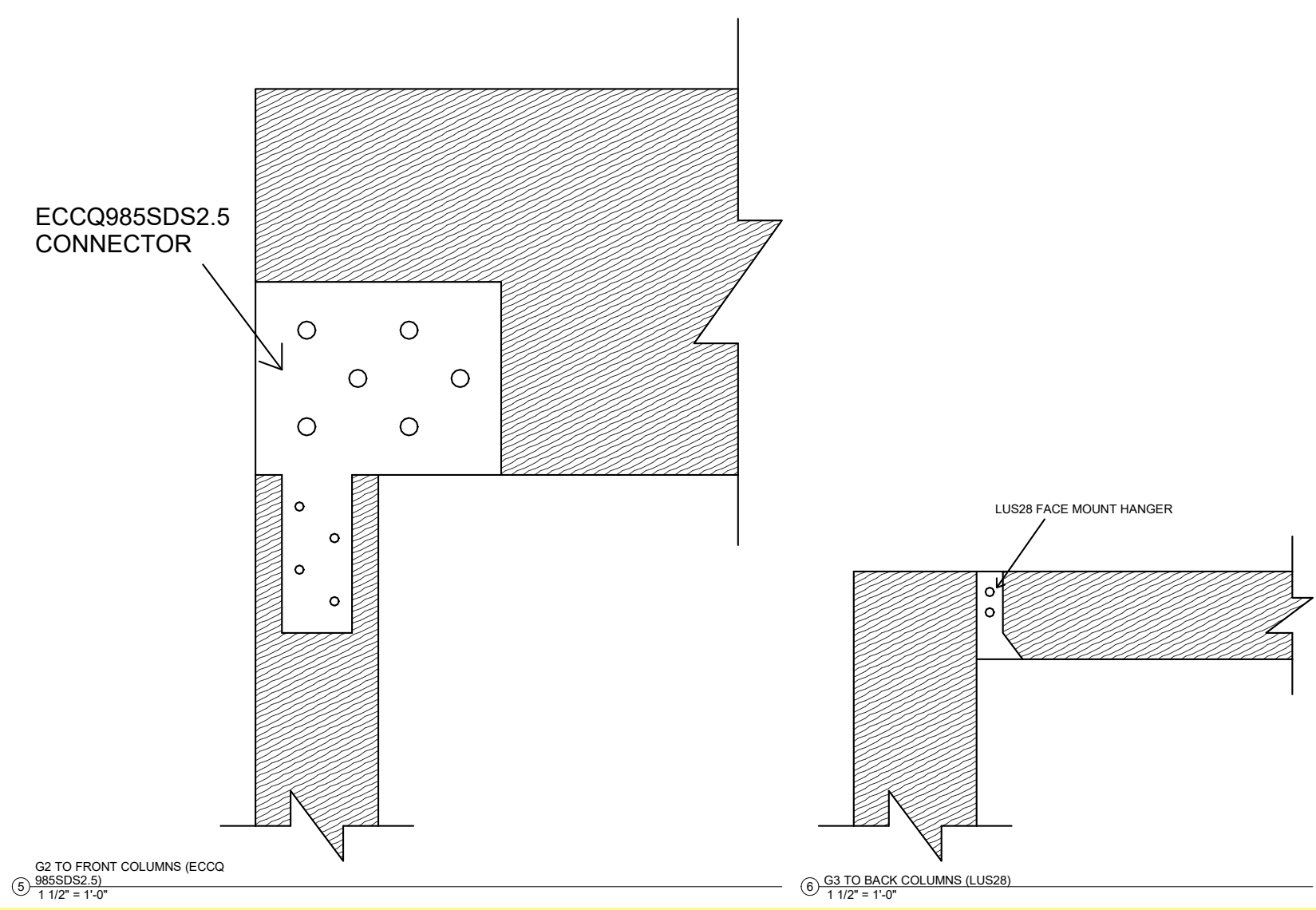
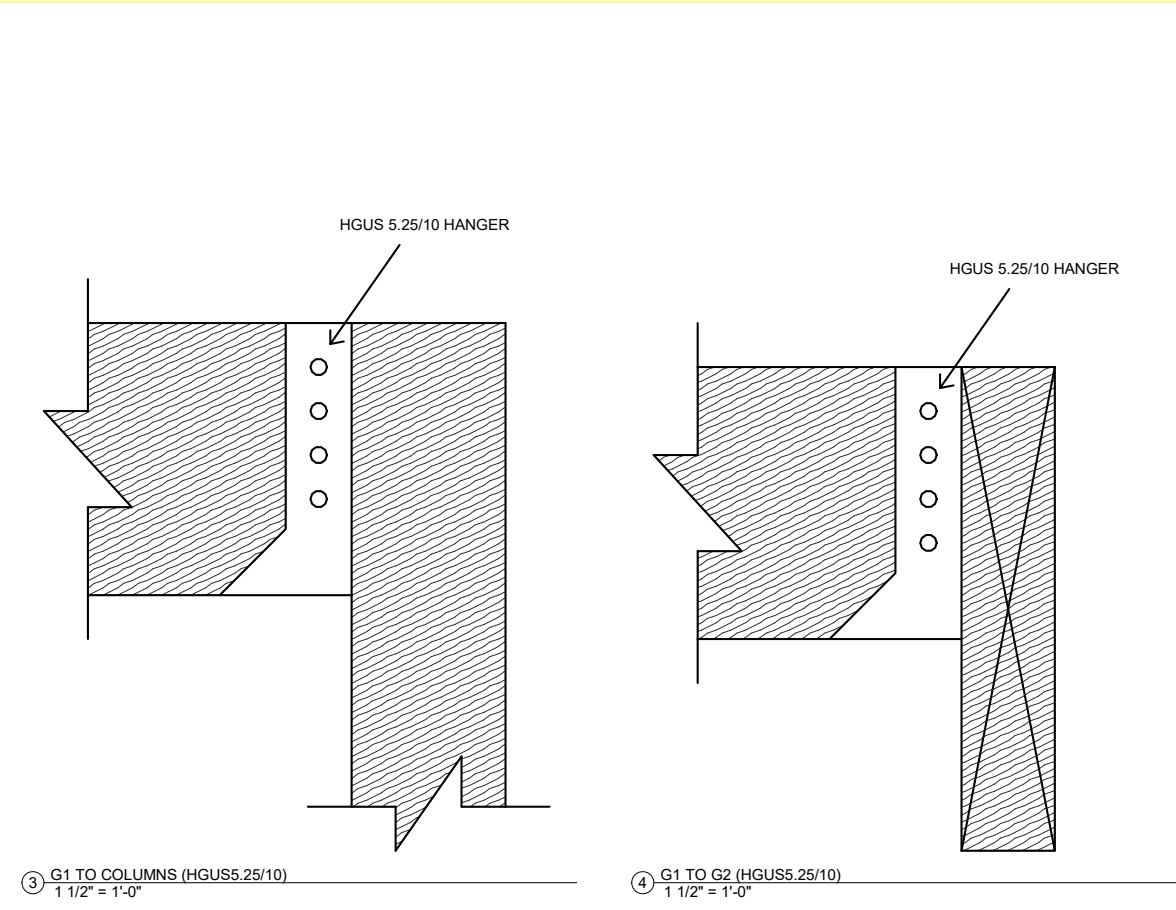
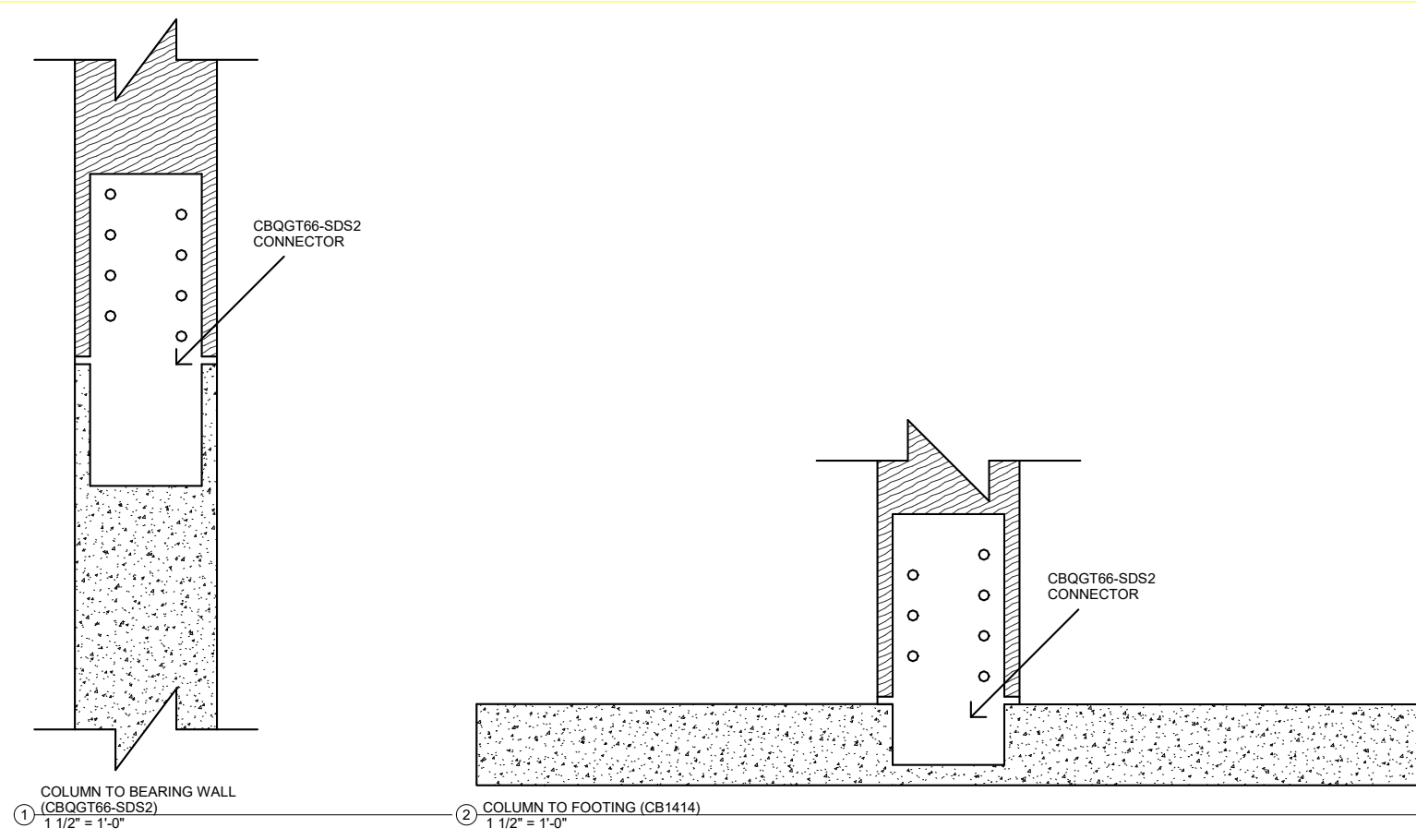


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SHEET NAME
DETAILS

SHEET NO.

S8



PROJECT: 1
DATE: 05/03/2019
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SHEET NAME
DETAILS

SHEET NO.
S9



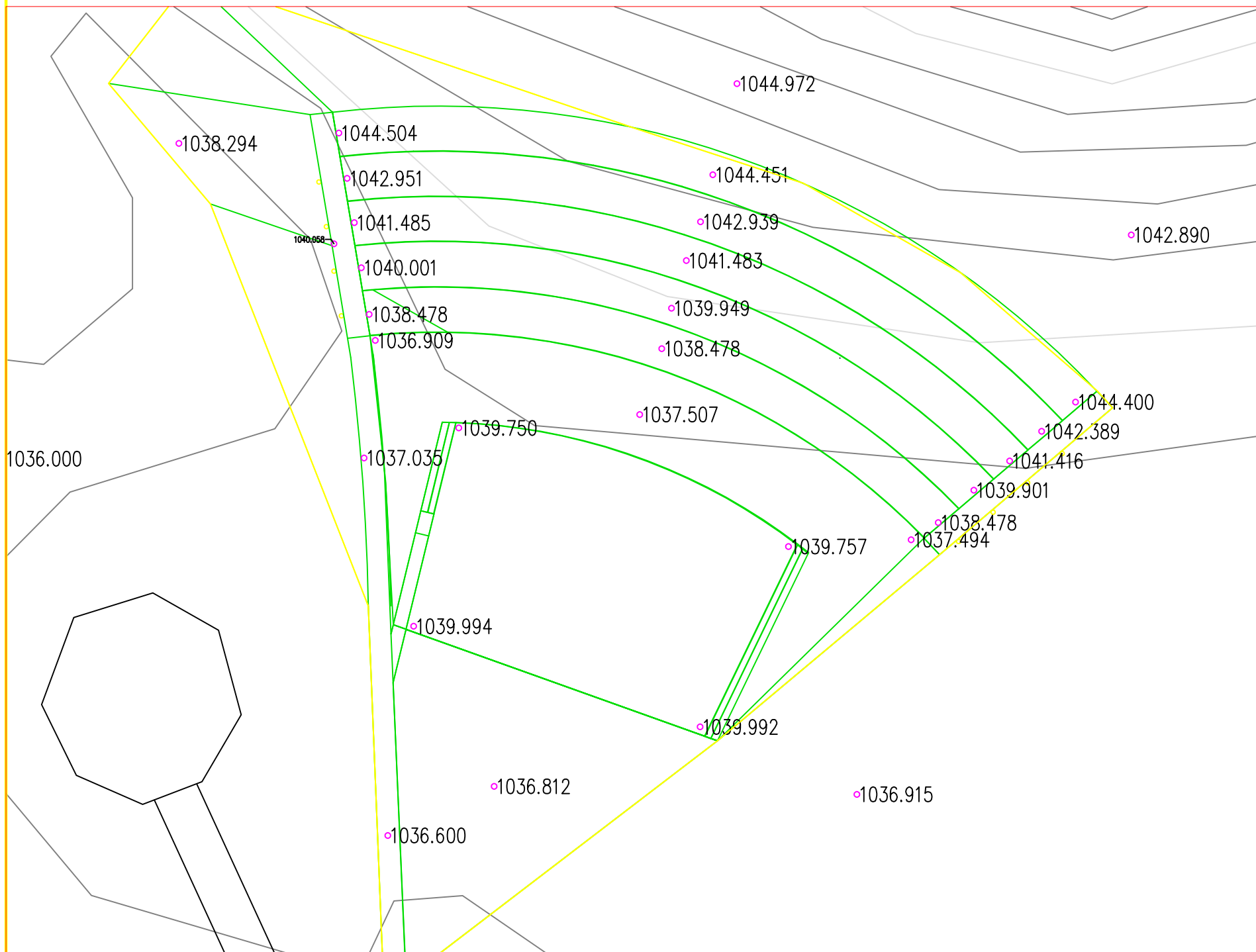
PROJECT:	1
DATE :	05/03/2019
DRAWN BY:	BK
REVISION:	

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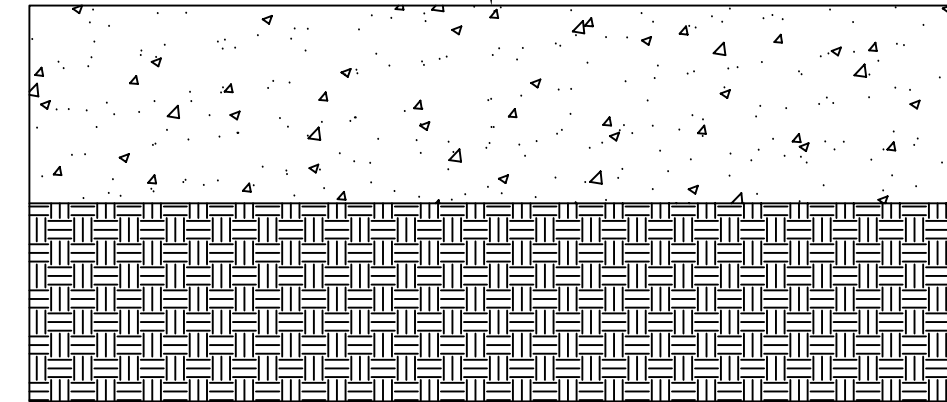
WEBSTER CITY AMPHITHEATER
1801 DES MOINES ST, WEBSTER CITY, IA

SHEET NAME
EXISTING
CONTOURS

SHEET NO.
C1



4" N.W. CONCRETE ON GRADE



1 SIDEWALK DETAIL
1/8" = 1'

VOLUME SUMMARY

NAME	TYPE	CUT FACTOR	FILL FACTOR	2D AREA (SQ. FT.)	CUT (CY. YD.)	FILL (CY. YD.)	NET (CU. YD.)
CUT/FILL	FULL	1.000	1.000	21143.77	74.81	1201.49	1126.68
FOUNDATION	FULL	1.000	1.000	975.375	0	41.85	41.85
STAGE	FULL	1.000	1.000	4000	0	47.5	47.5
STAIR	FULL	1.000	1.000	1929.28	0	357.27	357.27
TOTALS							
				2D AREA (SQ. FT.)	CUT (CY. YD.)	FILL (CY. YD.)	NET (CU. YD.)
TOTAL				21143.77	74.81	1648.114074	1573.30

PROJECT: 1
DATE: 05/03/2019
DRAWN BY: BK
REVISION:

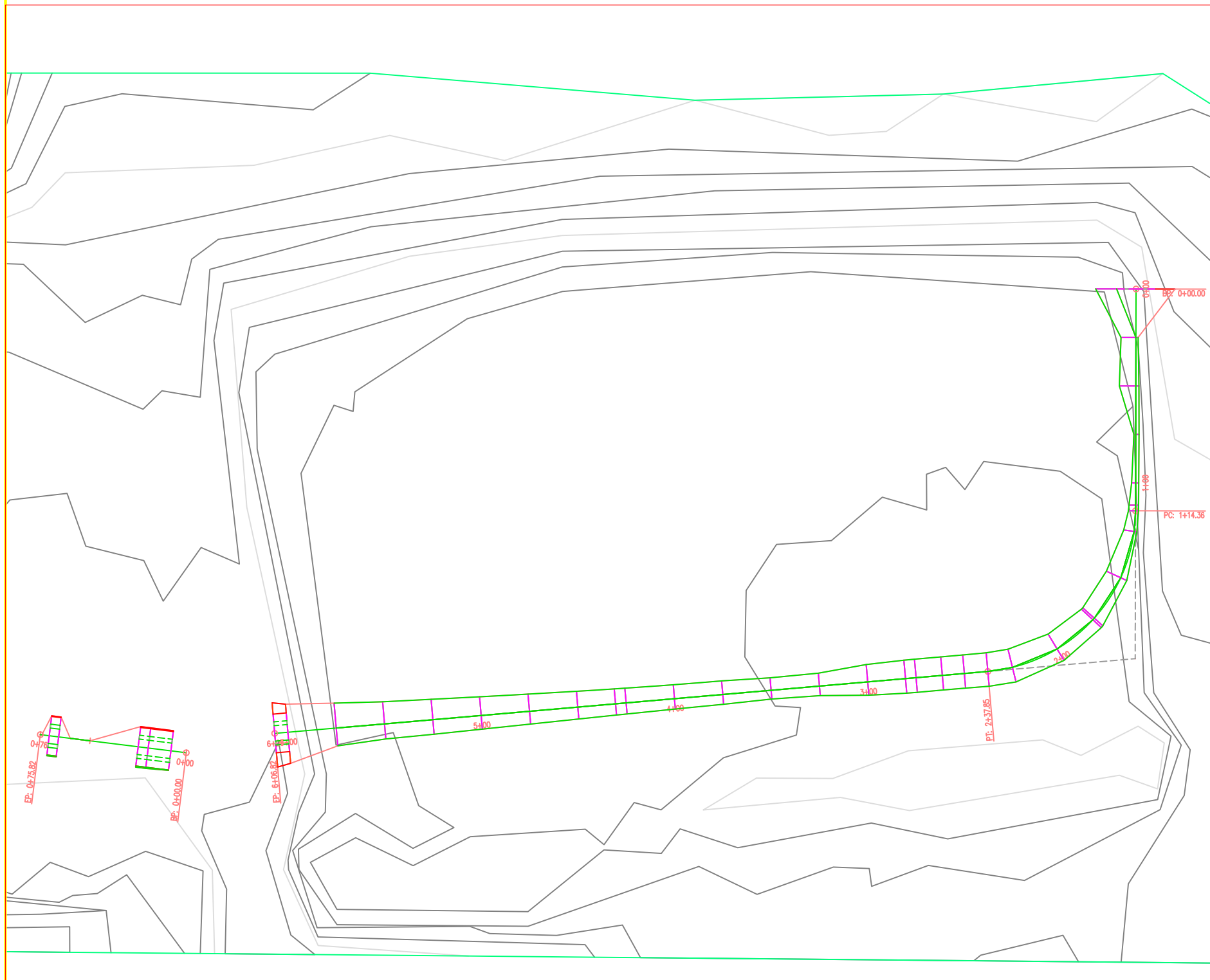
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EMAIL: civil-hawks@iowae.edu

CEE Logo BK - not to scale

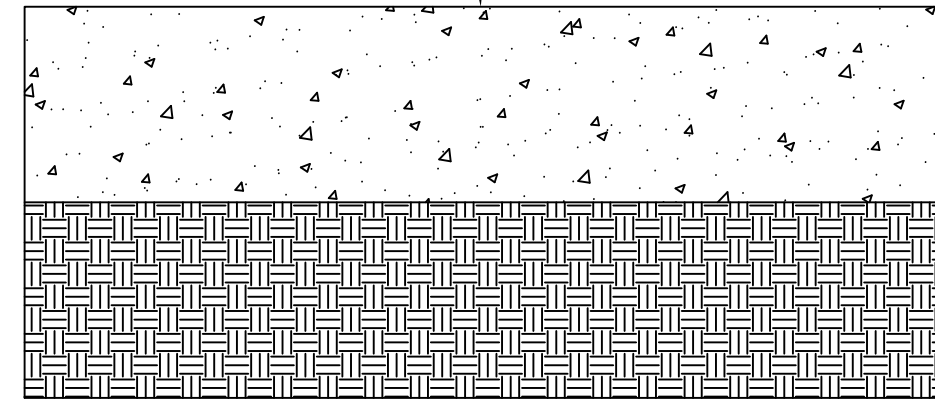
WEBSTER CITY AMPHITHEATER
1801 DES MOINES ST, WEBSTER CITY, IA

SHEET NAME
PROPOSED
CONTOURS

SHEET NO.
C2



5" N.W. CONCRETE ON GRADE



1
1/8" = 1'

Volume Summary

Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
cut and fill	full	1.000	1.000	23514.98	206.99	736.19	529.20<Fill>

Totals

	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	23514.98	206.99	736.19	529.20<Fill>

PROJECT:	1
DATE :	05/03/2019
DRAWN BY:	BK
REVISION:	

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SHEET NAME
 PROPOSED
 SIDEWALK

SHEET NO.
C3