

Lee's Summit R7 District Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

VOLUME 3 Cover Sheet

W-G000

September 28, 2020

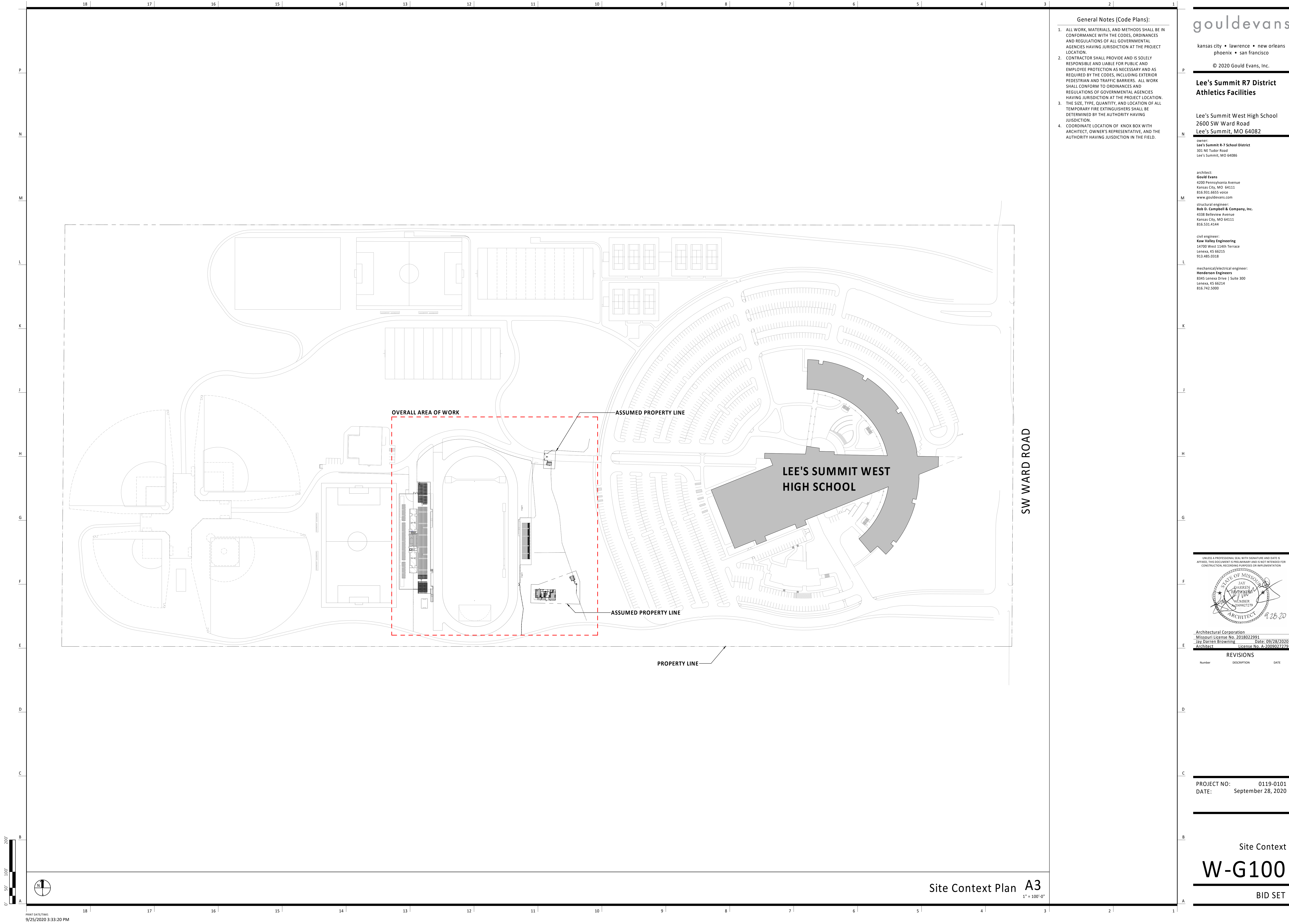
Project Team:

owner:	architect:	structural engineer:	civil engineer:	mechanical/electrical engineer:
Lee's Summit R-7 School District 301 NE Tudor Road Lee's Summit, MO 64086	Gould Evans 4200 Pennsylvania Avenue Kansas City, MO 64111 816.931.6655 voice www.goulddevans.com	Bob D. Campbell & Company, 4338 Belleview Avenue Kansas City, MO 64111 816.531.4144	Kaw Valley Engineering 14700 West 114th Terrace Lenexa, KS 66215 913.485.0318	Henderson Engineers 8345 Lenexa Drive Suite 300 Lenexa, KS 66214 816.742.5000

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BID SET

0119-0101



- General Notes (Code Plans):
1. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
 2. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
 3. THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
 4. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JURISDICTION IN THE FIELD.

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**Lee's Summit R7 District
Athletics Facilities**

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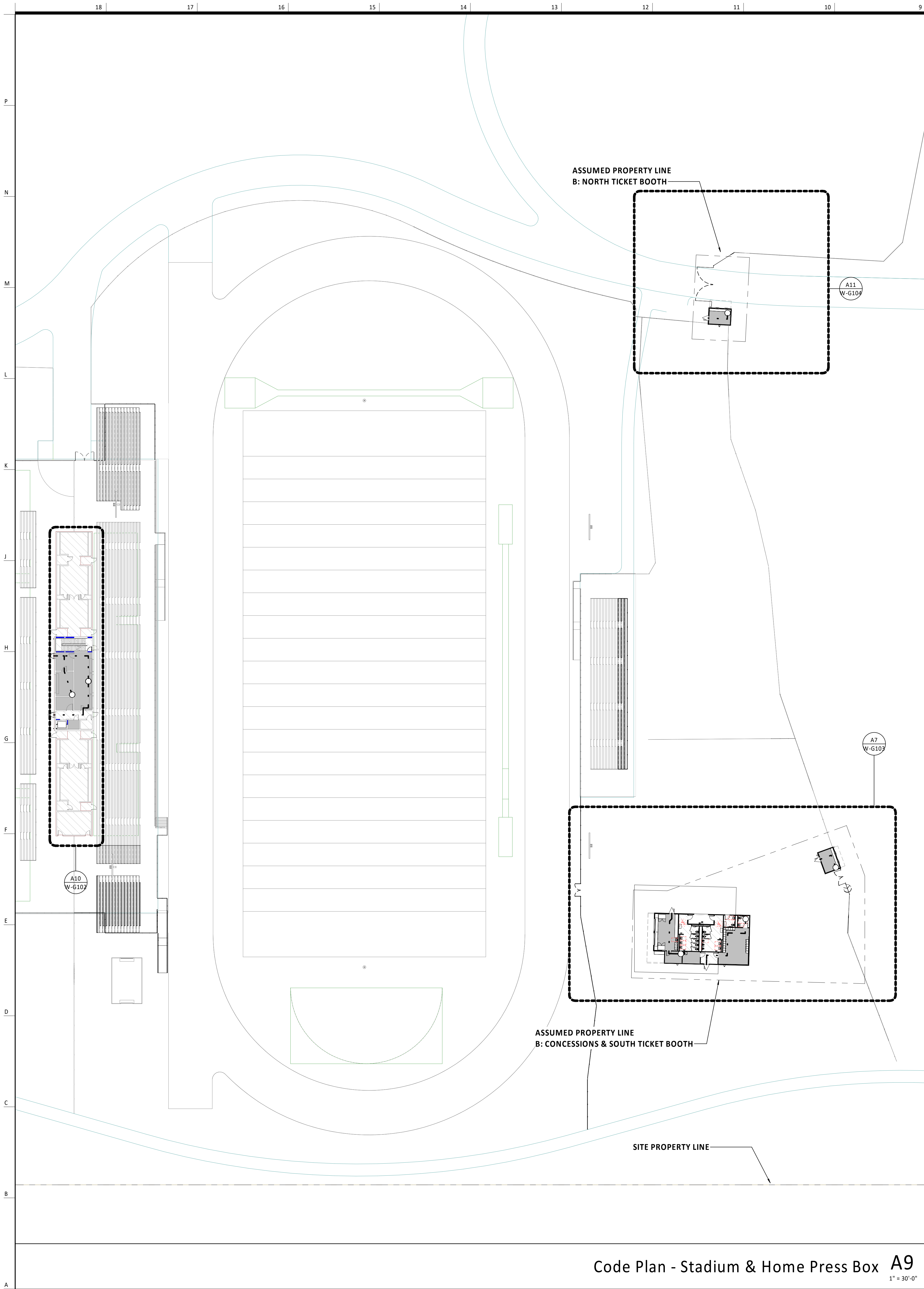
Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Site Context
W-G100
BID SET



PLUMBING FIXTURE COUNT:						
(BASED ON APPROVAL FROM CITY OF LEE'S SUMMIT)						
	MEN		WOMEN		FAMILY/ UNISEX	
	WC:	LAV:	WC:	LAV:	WC:	LAV:
EXISTING FIXTURES	14	8	24	8	1	1
NEW FIXTURES:	5	2	5	3	2	2
TOTAL FIXTURES PROVIDED:	19	10	29	11	3	3
TOTAL ACCESSIBLE FIXTURES:	3	3	3	3	3	2

Description
RENOVATION TO EXISTING OUTDOOR STADIUM FACILITIES WHICH WILL INCLUDE EXPANSION OF EXISTING PRESS BOX, CONSTRUCTION OF NEW RESTROOMS, CONCESSIONS, AND TICKET BOOTHS; AND CONSTRUCTION OF NEW BLEACHER SEATING.
Applicable Codes
2018 International Building Code 2018 International Existing Building Code 2018 International Fire Code 2017 National Electric Code 2018 International Mechanical Code 2018 International Plumbing Code 2018 International Energy Conservation Code 2009 Accessible and Usable Buildings and Facilities
Building complies with all applicable codes.

Occupancy Classifications
THE PROJECT SITE CONTAINS (3) ASSUMED PROPERTIES: EACH WITH A SINGLE USE OCCUPANCY IN EXISTING AND RENOVATED AREAS:
A-5: OUTDOOR STADIUM & PRESS BOX (SECTION 303) B: CONCESSIONS & SOUTH TICKET BOOTH (SECTION 304) B: NORTH TICKET BOOTH (SECTION 304)

Type of Construction
TYPE II-B (SECTION 602)

Allowable Height			
NON-SPRINKLED		SPRINKLED	
HEIGHT	STORIES	HEIGHT	STORIES
A-5: 55'	3	75'	4
B: 55'	3	75'	4

Building Height
PRESS BOX + ADDITION: 3 STORIES - APX 47' CONCESSIONS/LOCKER ROOM: 1 STORY - APX 15' NORTH TICKET BOOTH: 1 STORY - APX 13' SOUTH TICKET BOOTH: 1 STORY - APX 13'

Allowable Area		
NON-SPRINKLED (NS)	SPRINKLED (SU)	SPRINKLED (SM)
A-5: UL 23,000 SF	UL 92,000 SF	UL 69,000 SF
B: 23,000 SF	92,000 SF	69,000 SF

Building Area
PRESS BOX: EXISTING BUILDING AREA: 6,000 SF NEW CONSTRUCTION BUILDING AREA: 1,500 SF TOTAL BUILDING AREA: 7,500 SF
CONCESSIONS/LOCKER BUILDING AREA: 1,785 SF
NORTH TICKET BOOTH BUILDING AREA: 140 SF
SOUTH TICKET BOOTH BUILDING AREA: 140 SF

Passive Fire Requirements
EXTERIOR BEARING WALLS: 0 HR (TABLE 601)
INTERIOR BEARING WALLS: 0 HR (TABLE 601)
EXTERIOR NON-BEARING WALLS: 0 HR (TABLE 602)
OPENING PROTECTION AT EXT. WALL: 0 HR (TABLE 601)
STRUCTURAL FRAME: 0 HR (TABLE 601)
ROOF SUPPORTS: 0 HR (TABLE 601)
NON-BEARING WALLS & INTERIOR PARTITIONS: 0 HR (TABLE 601)
CORRIDORS: 0 HR (TABLE 1020.1)
FLOOR CONSTRUCTION: 0 HR (TABLE 601)

Active Fire Resistance Requirements
AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED (SECTION 905)
STANDPIPES: NOT REQUIRED (SECTION 905)
FIRE ALARM SYSTEM: NOT REQ'D. DUE TO OCCUPANT LOAD (SECTION 907.2.1)
SMOKE DETECTION: NOT REQUIRED
EXIT SIGNS: REQUIRED
NOT REQUIRED IN ROOMS THAT REQUIRE THE WALKING SURFACE (SECTION 1008.2.1)
EMERGENCY LIGHTING: MINIMUM OF 1 FOOTCANDLE AT THE WALKING SURFACE (SECTION 1008.2.1)
PORTABLE FIRE EXTINGUISHERS: REQUIRED (SECTION 906.1)

Means of Egress
COMMON PATH OF EGRESS TRAVEL: COMMON PATH OF EGRESS TRAVEL SHOULD NOT EXCEED 75 FEET FOR USE GROUP A IN NON-SPRINKLED BUILDINGS (IBC TABLE 1006.2.1). THE MAXIMUM OCCUPANT LOAD OF SPACE IS 49. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1 (IBC SECTION 1006.2.1)
DEAD END CORRIDORS: DEAD END CORRIDORS SHOULD NOT EXCEED 20 FEET IN LENGTH FOR USE GROUP A (IBC SECTION 1020.4). DEAD END CORRIDORS IN AN EXISTING CONDITION SHOULD NOT EXCEED 35' (IEBC SECTION 805.6)
TRAVEL DISTANCE: THE MAXIMUM TRAVEL DISTANCE TO AN EXIT SHOULD NOT EXCEED 200 FEET FOR USE GROUP A OCCUPANCIES (IBC TABLE 1017.2)
DOOR SWING: DOOR SWING IS REQUIRED TO SWING IN THE DIRECTION OF TRAVEL WHEN THE OCCUPANT LOAD IS MORE THAN 50 (IBC SECTION 1010.1.2.1)

General Notes (Code Plans):
1. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
2. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
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4. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JUISDICTION IN THE FIELD.
Code Plan Legend:
Egress Path of Travel Path # RE Schedule Common Path of Travel, RE Schedule Travel Distance to Exit, RE Schedule
Egress Point Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants
Stair Egress Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants
Occupancy Tag Occupancy Group Area Occupant Load
Fire Extinguisher Radius 75' Typ
1-Hour: Fire Rated Assembly 2-Hour: Fire Rated Assembly 3-Hour: Fire Rated Assembly 4-Hour: Fire Rated Assembly Smoke Barrier Smoke Partition

Path of Egress Schedule	
Mark	Path of Egress
Path 1.01	32' - 9 11/16"
Path 1.02	39' - 4 5/8"
Path 1.03	44' - 3 3/8"
Path 1.04	34' - 11 1/4"
Path 1.05	55' - 7 5/8"
Path 1.06	16' - 5 3/16"
Path 1.07	16' - 6"
Path 2.01	38' - 4 3/4"
Path 2.02	44' - 4 3/4"
Path 3.01	56' - 1 1/2"

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JAY DARREN BROWNING
ARCHITECT
0009027279
9.28.20

Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning
Date: 09/28/2020
Architect License No. A-2009027279

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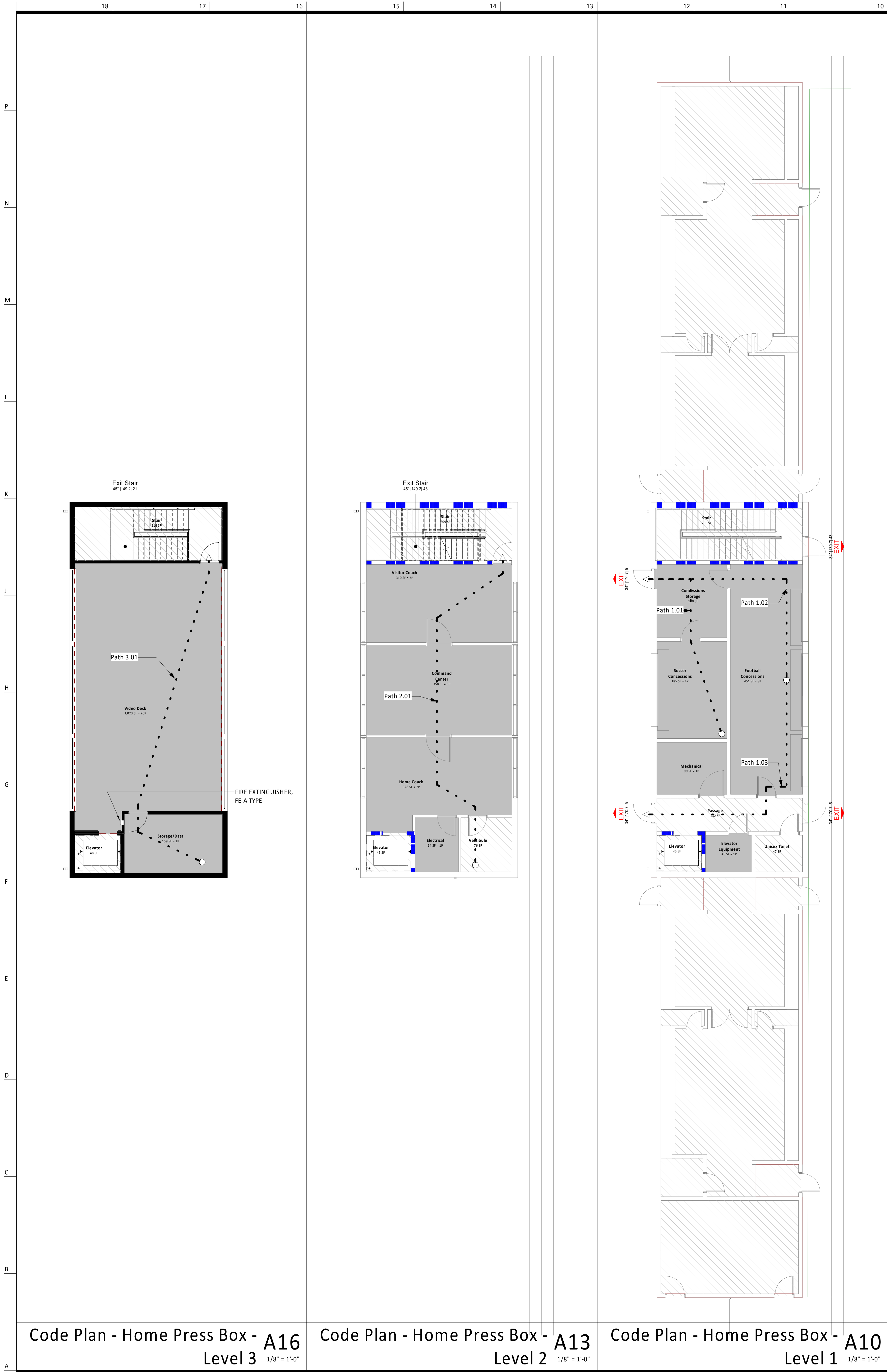
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

**Code Summary -
Stadium & Home Press
Box**

W-G101

BID SET



OCCUPANT LOADS:			
(BASED ON 2018 IBC TABLE 1004.5)			
STORAGE AREAS, MECHANICAL/ELECTRICAL EQUIPMENT ROOM	300 GROSS		
PRESS BOX	50 GROSS		
VIDEO DECK	50 GROSS		
CONCESSIONS	60 GROSS		
TICKETING	60 GROSS		
PRESS BOX - LEVEL 1			
STORAGE/MECH (2):	480 SF	2 OCCUPANTS	
CONCESSIONS (2):	996 SF	12 OCCUPANTS	
LEVEL 1 TOTAL: 15 OCCUPANTS			
PRESS BOX - LEVEL 2			
ELECTRICAL:	64 SF	1 OCCUPANT	
PRESS BOX (3):	1,331 SF	21 OCCUPANTS	
LEVEL 2 TOTAL: 22 OCCUPANTS			
PRESS BOX - LEVEL 3			
STORAGE/DATA:	186 SF	1 OCCUPANT	
VIDEO DECK:	969 SF	20 OCCUPANTS	
LEVEL 3 TOTAL: 21 OCCUPANTS			
TOTAL: 58 OCCUPANTS			

Exiting Requirements

EXIT WIDTHS DOORS, RAMPS, ETC (NOT INCLUDING BLEACHERS):

60 PEOPLE PER FOOT
0.2" PER OCCUPANT (SECTION 1005.3.2)

STAIRS (NOT INCLUDING BLEACHERS):

40 PEOPLE PER FOOT
0.3" PER OCCUPANT (SECTION 1005.3.1)

TRAVEL DISTANCE:

ALLOWED: 200' (NON-SPRINKLED)
ACTUAL: SEE CODE PLAN (TABLE 1017.2)

COMMON PATH OF TRAVEL:

75' FOR A OCCUPANCY (SECTION 1006.2.1)

NUMBER OF EXITS REQUIRED:

ROOMS WITH OL 49 OR LESS: 1 EXIT
ROOMS WITH OL 50-500: 2 EXITS
ROOMS WITH OL 501-1,000: 3 EXITS
ROOMS WITH OL 1,001 OR MORE: 4 EXITS
(TABLE 1006.2.1, SECTION 1006.2.1.1)

PANIC HARDWARE:

NOT REQUIRED IN BUILDINGS
(DUE TO OCCUPANT LOADS) (SECTION 1010.1.10)

REQUIRED EXIT WIDTH: $58 \times 0.2" = 11.6"$
ACTUAL EXIT WIDTH: 136"
TOTAL EGRESS CAPACITY: 680
ACTUAL OCCUPANCY: 58

Description
RENOVATION TO EXISTING OUTDOOR STADIUM FACILITIES WHICH WILL INCLUDE EXPANSION OF EXISTING PRESS BOX, CONSTRUCTION OF NEW RESTROOMS, CONCESSIONS, AND TICKET BOOTHS, AND CONSTRUCTION OF NEW BLEACHER SEATING.
Applicable Codes
2018 International Building Code 2018 International Existing Building Code 2018 International Fire Code 2017 National Electric Code 2018 International Mechanical Code 2018 International Plumbing Code 2018 International Energy Conservation Code 2009 Accessible and Usable Buildings and Facilities Building complies with all applicable codes.
Occupancy Classifications
THE PROJECT IS A SINGLE USE OCCUPANCY IN EXISTING AND RENOVATED AREAS.
Type of Construction
TYPE II-B
Allowable Height
NON-SPRINKLER HEIGHT STORES A-5: 55' UL
Building Height
PRESS BOX + ADDITION: 3 STORIES - APX 47'
Allowable Area
NON-SPRINKLED (NS) SPRINKLED (S) A-5: UL UL
Building Area
PRESS BOX: EXISTING BUILDING AREA: 6,000 SF NEW CONSTRUCTION BUILDING AREA: 1,500 SF TOTAL BUILDING AREA: 7,500 SF

Passive Fire Requirements
EXTERIOR BEARING WALLS: 0 HR
INTERIOR BEARING WALLS: 0 HR
EXTERIOR NON-BEARING WALLS: 0 HR (1-3/8" FROM C.L. OF PROPERTY LINE, TABLE 602)
OPENING PROTECTION AT EXT. WALL: 0 HR (2-1/2" FROM C.L. OF PROPERTY LINE, TABLE 705.5)
STRUCTURAL FRAME: 0 HR
ROOF SUPPORTS: 0 HR
NON-BEARING WALLS & INTERIOR PARTITIONS: 0 HR
CORRIDORS: 0 HR
FLOOR CONSTRUCTION: 0 HR

Active Fire Resistance Requirements
AUTOMATIC SPRINKLER SYSTEM: (SECTION 903) NOT REQUIRED
STANDPIPES: NOT REQUIRED (SECTION 905)
FIRE ALARM SYSTEM: NOT REQ'D. DUE TO OCCUPANT LOAD (SECTION 907.2.1)
SMOKE DETECTION: NOT REQUIRED (SECTION 1013)
EXIT SIGNS: NOT REQUIRED IN ROOMS THAT REQUIRE ONLY ONE EXIT. (SECTION 1013)
EMERGENCY LIGHTING: MINIMUM OF 1 FOOTCANDLE AT THE WALKING SURFACE (SECTION 1008.2.1)
PORTABLE FIRE EXTINGUISHERS: REQUIRED (SECTION 906.1)

Means of Egress
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Egress Point Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants
Stair Egress Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants
Occupancy Tag Occupancy Group Room name Area Occupant Load
Fire Extinguisher Radius 75' Typ
1-Hour: Fire Rated Assembly 2-Hour: Fire Rated Assembly 3-Hour: Fire Rated Assembly 4-Hour: Fire Rated Assembly Smoke Barrier Smoke Partition

Path of Egress Schedule	
Mark	Path of Egress

Path 1.01	32' - 9 11/16"
Path 1.02	39' - 4 5/8"
Path 1.03	44' - 3 3/8"
Path 1.04	34' - 11 1/4"
Path 1.05	55' - 7 5/8"
Path 1.06	16' - 5 3/16"
Path 1.07	16' - 6"
Path 2.01	59' - 8 1/2"
Path 3.01	58' - 3 1/8"

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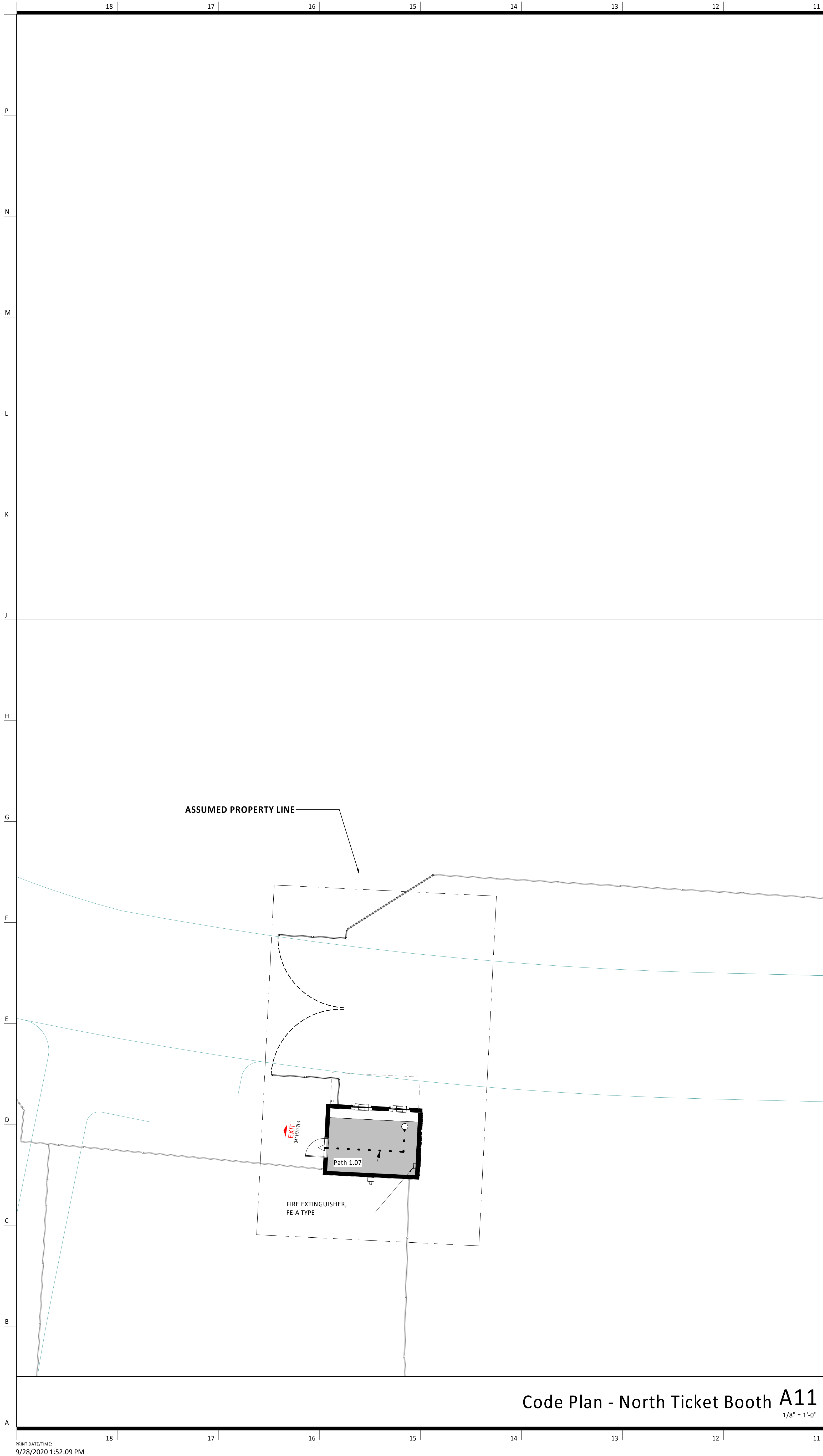
PROJECT NO: 0119-0101

DATE: September 28, 2020

Code Summary - Press Box

W-G102

BID SET



OCCUPANT LOADS:		
(BASED ON 2016 IBC TABLE 1004.5)		
TICKETING	60 GROSS	
SOUTH TICKET BOOTH		
TICKETING: 140 SF	3 OCCUPANTS	
TOTAL: 3 OCCUPANTS		
Exiting Requirements		
EXIT WIDTHS, DOORS, RAMPS, ETC (NOT INCLUDING BLEACHERS):		
60 PEOPLE PER FOOT		(SECTION 1006.3.2)
0.2" PER OCCUPANT		
STAIRS (NOT INCLUDING BLEACHERS):		
40 PEOPLE PER FOOT		(SECTION 1006.3.1)
0.3" PER OCCUPANT		
TRAVEL DISTANCE:		
ALLOWED: 200' (NON-SPRINKLED)		(TABLE 1017.2)
ACTUAL: SEE CODE PLAN		
COMMON PATH OF TRAVEL:		
75' FOR A OCCUPANCY		(SECTION 1006.2.1)
NUMBER OF EXITS REQUIRED:		
ROOMS WITH OL 49 OR LESS: 1 EXIT		
ROOMS WITH OL 50-500: 2 EXITS		
ROOMS WITH OL 501-1,000: 3 EXITS		
ROOMS WITH OL 1,001 OR MORE: 4 EXITS		(TABLE 1006.2.1, SECTION 1006.2.1.1)
PANIC HARDWARE:		
NOT REQUIRED IN BUILDINGS		(SECTION 1010.1.10)
(DUE TO OCCUPANT LOADS)		
SOUTH TICKET BOOTH:		
REQUIRED EXIT WIDTH: 4 x 0.2" = 0.8"		
ACTUAL EXIT WIDTH: 34"		
TOTAL EGRESS CAPACITY: 170		
ACTUAL OCCUPANCY: 4		

Description									
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Occupancy Classifications									
THE PROJECT SITE CONTAINS (3) ASSUMED PROPERTIES; EACH WITH A SINGLE USE OCCUPANCY IN EXISTING AND RENOVATED AREAS: B: NORTH TICKET BOOTH									
Type of Construction									
TYPE II-B									
Allowable Height									
<table><tr><th colspan="2">NON-SPRINKLED</th><th>SPRINKLED</th></tr><tr><th>HEIGHT</th><th>STORIES</th><th>HEIGHT</th></tr><tr><td>B: 55'</td><td>3</td><td>75'</td></tr></table>	NON-SPRINKLED		SPRINKLED	HEIGHT	STORIES	HEIGHT	B: 55'	3	75'
NON-SPRINKLED		SPRINKLED							
HEIGHT	STORIES	HEIGHT							
B: 55'	3	75'							
Building Height									
NORTH TICKET BOOTH: 1 STORY - APX 13'									

General Notes (Code Plans):	
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Code Plan Legend:	
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Egress Point Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants	EXIT 20' (IB 71.5) 20' (IB 71.5)
Stair Egress Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants	Exit Stair 40' (IB 72)
Occupancy Tag Occupancy Group Area Occupant Load	Room name 1,200 sq ft
Fire Extinguisher Radius	75' Typ
1-Hour: Fire Rated Assembly 2-Hour: Fire Rated Assembly 3-Hour: Fire Rated Assembly 4-Hour: Fire Rated Assembly Smoke Barrier Smoke Partition	

Path of Egress Schedule	
Mark	Path of Egress

Path 1.01	32' - 9 11/16"
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Path 2.01	59' - 8 1/2"
Path 3.01	58' - 3 1/8"

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913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning
Architect License No. A-2009027279
Date: 09/28/2020

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Code Summary - North
Ticket Booth

W-G104

BID SET

P

N

M

L

K

J

H

G

F

E

D

C

B

A

System No. HW-D-0584

October 15, 2009

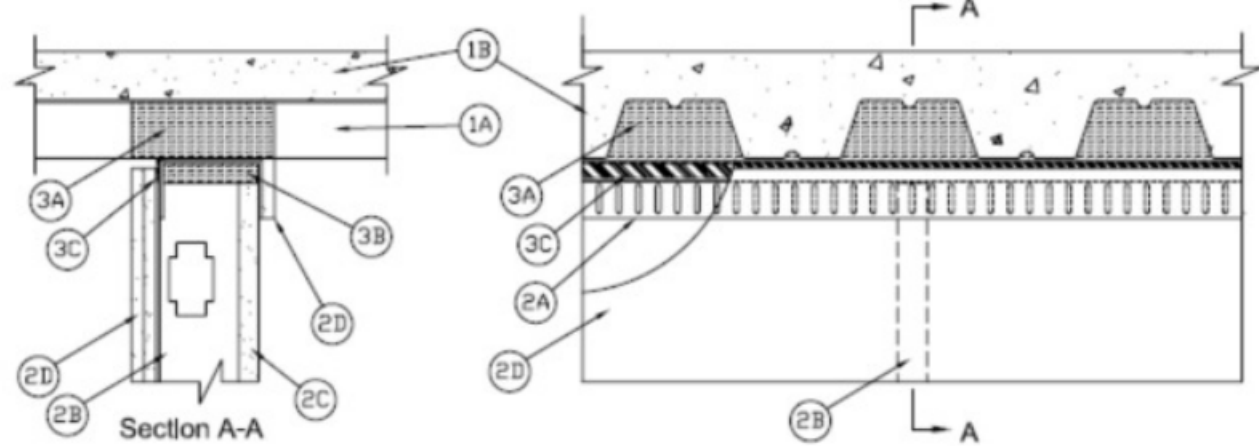
Assembly Rating — 2 Hr

L Rating at Ambient — 2.1 CFM/Lin Ft

L Rating at 400°F — 1.33 CFM/Lin Ft

Nominal Joint Width — 1-1/16 in.

Class II and III Movement Capabilities —94%Compression or 100% Extension



1. **Floor Assembly** — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Form Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.
- B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly** — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof shall be constructed of the materials and in the manner described in the individual P900-Series Roof-Ceiling designs in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

- A. **Steel Roof Deck** — Max 3 in. deep galv steel fluted roof deck.
- B. **Roof Insulation** — Roof insulation to consist of min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the roof deck.

2. **Shaft Wall Assembly** — The 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Ceiling Runners** — Floor runner U-shaped, sized to accommodate steel studs (Item 2B), fabricated from 24 ga galv steel. Ceiling runner positioned with slotted leg toward finished side of wall. Runners attached to floor with steel fasteners located not greater than 2 in. from ends and not greater than 24 in OC. The ceiling runners are provided with a fill, void or cavity material and are described in Item 3.
- B. **Studs** — "C-T", "T", or "C-H" shaped steel studs to be min 2 1/2 in. (64 mm) wide and formed of min 24 ga galv steel. Studs cut 2-2 1/4 (51 to 57 mm) less in length than assembly height with bottom nesting in and secured to floor runner. Steel studs secured to slotted leg of ceiling runner on finished side with No. 8 by 1/2 (13 mm) long wafer head steel screws at mid-height of exposed slot. Studs spaced max 24 in. (610 mm) OC.
- C. **Gypsum Board*** — 5/8 in. (25 mm) thick by max 24 in. (610 mm) wide gypsum board liner panels. Panels cut 1-1/4 to 1-1/2 in. (32 to 38 mm) less in length than floor to ceiling height. Vertical edges inserted into "T" shaped section of "C-T" studs, into holding tabs of "T" studs or into "H" shaped section of "C-H" studs. A nominal 3-5/8 in. (92 mm) wide rip of gypsum board covering the leg of the ceiling runner attached a max of 3/8 in. (10 mm) below the track web and a max of 8 in. (203 mm) O.C. to ceiling runner on the non-finished side of wall.
- D. **Gypsum Board*** — Gypsum board 1/2 or 5/8 in. (13 or 16 mm) thick, applied on finished side of wall as specified in the individual Wall and Partition Design. The boards cut a max 1-1/4 to 1-1/2 in. (32 to 38 mm) less in length than the floor to ceiling height. The screws attaching the gypsum board layer(s) to the "C-T", "T", or "C-H" studs shall be located 4 to 5 in. (102 to 127 mm) down from deck at time of installation.

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System** — Max separation between bottom of floor and top of gypsum board (at time of installation) is 1-1/16 in. (27 mm). The joint system is designed to accommodate a max 94 percent compression or 100 percent extension from its installed width.

- A. **Forming Material*** — Min 4 pcf (64 kg/m³) mineral wool insulation cut to the shape of the fluted steel floor units, approx 33% larger than the area of the flutes. Pieces should be compressed and inserted into the flutes above the top ceiling runner flush with the finished wall surface.
- B. **Forming Material*** — Min 2 in. thick min 4 pcf (64 kg/m³) mineral wool batt insulation cut to the width of the ceiling runner and compressed approximately 47 percent in thickness, installed into ceiling runner between leg of track and gypsum liner board.
- C. **Fill, Void or Cavity Material*** — Nom 20 ga U-shaped track having 3-1/4 in (83 mm) legs with a nom 2-1/2 in. (64 mm) wide innumescent strip affixed to the top of the leg overlapping on to top surface a min of 1/4 in. (6 mm) facing the finished side of wall. Gypsum board to overlap a min of 1 in. (25 mm) over the innumescent strip. Track to be secured to bottom side of floor assembly with min 2 in. (51 mm) steel fasteners spaced at a max of 24 in. (610 mm) OC.

CALIFORNIA EXPANDED METAL PRODUCTS CO — FAS SHAFT TRACK D/L2

*Bearing the UL Classification Mark

The appearance of a company's name or product in this database does not in itself assure that products as identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered as being listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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U.L. #HW-D-0584 A9
NTS

System No. HW-D-0218

November 14, 2011

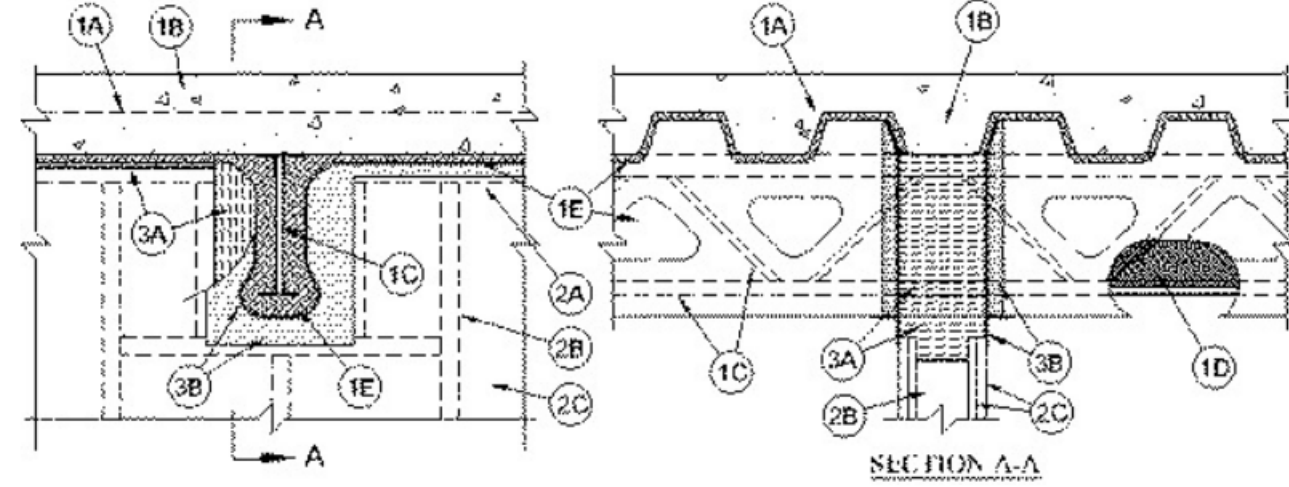
Assembly Rating — 1 and 2 Hr (See Item 1)

Nominal Joint Width - 1 In.

L Rating At Ambient — Less Than 1 CFM/Lin Ft

L Rating At 400°F — Less Than 1 CFM/Lin Ft

Class II Movement Capabilities - 25% Compression and Extension



1. **Floor Assembly** — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Form Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.
- B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support (Optional)** — Steel beam or open-web steel joist, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented perpendicular to wall assembly.

D. **Steel Lath** — Where open-web steel joists pass through the fire rated wall, 3/8 in. diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m²) shall be secured to one side of each joist with steel tie wire and the lath shall be fully covered with no min thickness requirement.

E. **Spray-Applied Fire Resistive Material*** — After the installation of the ceiling runner, (Item 2A, 2A1 or 2A2) steel floor units to be sprayed with the thickness of material specified in the individual D700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design. Material is to be excluded from the steel floor units, directly above the gypsum board and from the flanges of the ceiling runners.

W R GRACE & CO CONSTRUCTION

PRODUCTS DIV — Type MK-6/HY

ISOLATEK INTERNATIONAL — Type 300

2. **Wall Assembly*** — The 1 or 2 h fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Ceiling Runners** — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner centered beneath and parallel with valley of steel floor units (Item 1A). Ceiling runner secured to steel floor units with masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. A clearance of 1-1/2 in. (38 mm) shall be maintained between the ceiling runner and the spray-applied fire resistive material on the structural steel support members.

A1. **Light Gauge Framing*-Slotted Ceiling Runner** — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

BRADY CONSTRUCTION INNOVATIONS INC,

DBA SLIPTRACK SYSTEMS — SLP-TRK

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES

INC — Type SLT

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

THE STEEL NETWORK INC — VertiTrack VT, series,250VT, 362VT, 400VT, 600VT and 800VT

A2. **Light Gauge Framing*-Vertical Deflection Ceiling Runner** — As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

THE STEEL NETWORK INC VertiTrack VTD362, VTD400, VTD600 and VTD800

A3. **Light Gauge Framing*-Notched Ceiling Runner** — As an alternate to the ceiling runners in Items 2A through 2A3, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing*- Slotted Ceiling Runner** — As an alternate to the ceiling runner in Item 2A through 2A3, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SLDT

B. **Studs** — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to the floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection runner (Item 2A2) is used, studs secured to vertical clip through slip bushing, supplied, with No.8 by 1/2 in. (13 mm) steel screws at midheight of slot of each slot. When slotted ceiling runner (Item 2A4) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall. A framed opening shall be constructed around each steel structural member A min clearance of 1 in. (25 mm) to a max of 4 in. (102 mm) shall be maintained between the framing and the spray-applied fire resistive material on the two sides of the structural support. The clearance between the framing and the spray-applied fire resistive material on the bottom of the structural steel support shall be max 2 in. (51 mm). Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board*** — 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual U400 or V400 Series Design in the Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between top of gypsum board and bottom plane of steel floor units and between the top edge of the gypsum board and the spray applied fire resistive material on the structural steel support. The top row of screws shall be installed into the studs 1 in. (25 mm) below the bottom of the ceiling runner.

3. **Joint System** — Max separation between bottom of floor units and top of gypsum board at time of installation is 1 in. (25 mm). Max separation between spray-applied fire resistive material on bottom of structural opening in top of wall is 2 in. (51 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed width. The joint system consists of a forming material and a fill material between the top of the gypsum board and the bottom of the floor, as follows:

- A. **Forming Material*** — Nominal 4 in. (102 mm) thick pieces of nominal 4 pcf (64 kg/m³) forming material, sized to be flush with both surfaces of wall, placed to fully fill the framed opening around the structural steel support. Pieces sized to attain a min compression rate of 50 percent in the thickness direction. Additional mineral wool batt insulation cut into strips to fill the gap between top of the gypsum board and bottom of floor units. Width of the strips shall be equal to the total thickness of the gypsum board. The strips of mineral wool shall be compressed 50 percent in thickness and firmly packed into the gap between the top of gypsum board and bottom of floor units.

ROCK WOOL MANUFACTURING CO — Delta Board

ROXUL INC — SAFE

THERMAFIBER INC — Type SAF

B. **Fill, Void or Cavity Material*** — Sealant — A min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of wall to completely cover mineral wool forming material and to overlap min 1/2 in. (13 mm) onto gypsum board and min 2 in. (51 mm) onto the steel floor units or the spray applied material on the steel floor unit and on the structural support member on both sides of wall.

HLITI CONSTRUCTION CHEMICALS, DIV OF

HLITI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

earing the UL Classification Mark

U.L. #HW-D-0218 A5
NTS

U.L. #HW-D-0155 A1
NTS

gould evans

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phoenix • san francisco

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Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 140th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

System No. HW-D-0155

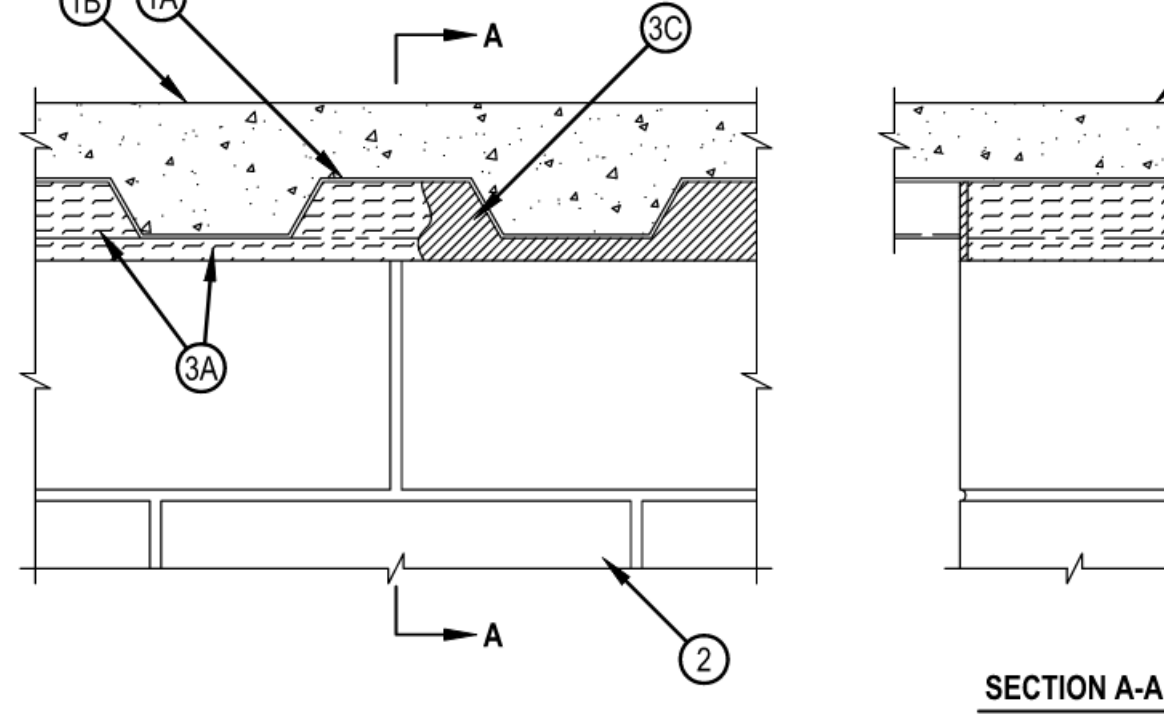
Assembly Rating — 2 Hr

Nominal Joint Width—3/4 In.

L Rating At Ambient — Less Than 1 CFM/Lin Ft

L Rating At 400°F — Less Than 1 CFM/Lin Ft

Class II Movement Capabilities—17% Compression Or Extension



SECTION A-A

1. **Floor Assembly** — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:

- A. **Steel Floor and Form Units*** — Max 2 in. (51 mm) deep galv steel fluted floor units.
- B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
- 1A. **Roof Assembly** — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

- A. **Steel Roof Deck** — Max 3 pcf (64 kg/m³) deep galv steel fluted roof deck.
- B. **Roof Insulation** — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

2. **Wall Assembly** — Min 5 in. (127 mm) thick steel reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of an UL Classified Concrete Blocks*.

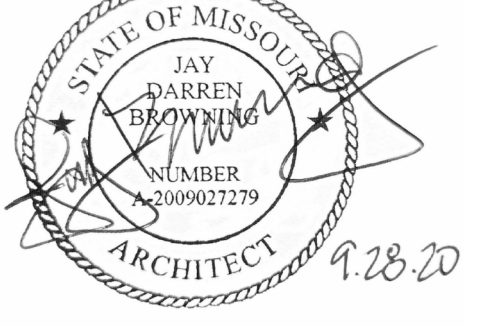
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufactures.

3. **Joint System** — Max separation between bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width. The joint system consists of a forming material and a fill material between the top of the wall and the bottom of the floor or roof, as follows:

- A. **Forming Material*** — Nom 4 pcf (64 kg/m³) densely mineral wool batt insulation cut approx 20 percent wider than the flutes, with a length approx equal to the overall thickness of the wall. Pieces stacked as needed and then compressed 20 percent in thickness and inserted into the flutes of the steel deck. The mineral wool batt insulation shall be recessed 1/4 in. (6 mm) from wall surfaces. Additional nom 4 pcf (64 kg/m³) mineral wool batt insulation shall be cut into strips to fill the gap between the top of the wall and bottom of the steel deck. The width of the strips shall be equal to the total thickness of the wall less 1/2 in. The strips of mineral wool are compressed 50 percent in thickness and firmly packed into the gap between the top of the wall and bottom of the steel deck, recessed 1/4 in. (6 mm) from wall surfaces.
- A1. **Forming Material*—Plugs** — (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes. The plugs shall be recessed 1/4 in. (6 mm) from both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and bottom of steel floor units.
- HLITI CONSTRUCTION CHEMICALS, DIV OF HLITI INC — CP777 Speed Plugs
- B. **Fill, Void or Cavity Material*** — Sealant — Min 1/4 in. (6 mm) thickness of fill material installed on each side of the wall in the flutes of the steel deck between the top of the wall and the bottom of the steel deck. Flush with each surface of the wall.
- HLITI CONSTRUCTION CHEMICALS, DIV OF HLITI INC — CP606 Flexible Firestop Sealant

*Bearing the UL Classification Mark

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Architectural Corporation
Missouri License No. 20180022991 Date: 09/28/2020
Jay Darren Browning
Architect License No. A-2009027279

REVISIONS
Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Fire Rated Assemblies

W-G201

BID SET

SITE DATA:
PROJECT AREA/AREA OF DISTURBANCE
TOTAL: 40,936 SF (0.94 AC.)

IMPERVIOUS COVERAGE WITHIN PROJECT AREA
EXISTING: 6,425 S.F. - 0.15 AC.
PROPOSED: 13,722 S.F. - 0.32 AC.
INCREASE: 7,297 S.F. - 0.17 AC.

STORMWATER MANAGEMENT:
NO ADDITIONAL STORM WATER MANAGEMENT CONTROLS
ARE PROPOSED AS PART OF THIS PROJECT.

LEE'S SUMMIT WEST HIGH SCHOOL

SITE PLAN

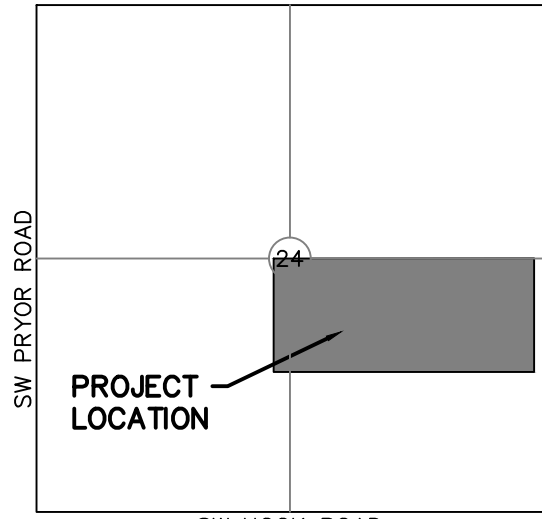
2600 SW WARD ROAD, LEE'S SUMMIT, MO 64082
SECTION 8 - TOWNSHIP 47 N - RANGE 31 W

PREPARED FOR:
LEE'S SUMMIT SCHOOL DISTRICT
302 SE TRANSPORT RD,
LEE'S SUMMIT, MO 64081
PHONE: (816) 986-2421
CONTACT: KYLE GORRELL
EMAIL: kyle.gorrell@lsr7.net

PREPARED BY:
KAW VALLEY ENGINEERING, INC.
14700 W 114TH TERR,
LENEXA, KANSAS 66215
PHONE: (913) 894-5150
CONTACT: DAVID WOOD
EMAIL: wood@kveg.com



Know what's below.
Call before you dig.



VICINITY MAP
SEC 24 T47N R31W
NOT TO SCALE

PROJECT CONTROL:
CP #210
1/2" REBAR WITH CONTROL POINT
CAP
NORTHING: 985115.46 (GROUND)
EASTING: 2816680.16 (GROUND)
ELEV = 1018.30

CP #211
1/2" REBAR WITH CONTROL POINT
CAP
NORTHING: 985518.99 (GROUND)
EASTING: 2816688.61 (GROUND)
ELEV = 1015.74

CP #212
1/2" REBAR WITH CONTROL POINT
CAP
NORTHING: 985543.18 (GROUND)
EASTING: 2186501.13 (GROUND)
ELEV = 1005.49

SITE BENCHMARKS:
BM-1
CHISELED SQUARE 3 1/2" EAST
OF EAST WATER FOUNTAIN.
PROJECT CISS8608.
ELEV= 1015.33

BM-3
SET CUT SQUARE AT SW
CORNER OF CURB INLET, NW
CORNER OF SW MOST PARKING
LOT.
ELEV= 1018.13

BM-4
SET CUT SQUARE AT CORNER
OF CONC. WALK, 25'± WEST
OF TURNSTYLE TO ATHLETIC
FIELD.
ELEV= 1007.85

HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE
COORDINATES SHOWN HEREON ARE
GROUND COORDINATES BASED ON THE
MISSOURI STATE PLANE (1983) WEST
ZONE
(NAD 1983) (NAVD 1988).

CAF: 0.9998974
1 METER = 3.28083333 U.S SURVEY
FEET
SCALED AROUND 0.0

JA-142 (PID: 0951422)
NORTHING: 502106.953 (METERS) (GRID)
EASTING: 858960.056 (METERS) (GRID)
ELEVATION: 318.0 (METERS)

UNDERGROUND UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HEREON ARE DEPICTED FROM FIELD
SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES AND/OR THE
SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS MADE
AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR
DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE
ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR
ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT
THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION
DEPICTED ALTHOUGH HE DOES CERTIFY THAT THEY ARE DEPICTED AS
ACCURATELY AS POSSIBLE FROM INFORMATION MADE AVAILABLE TO THE
SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR HAS NOT PHYSICALLY
LOCATED THE UNDERGROUND UTILITIES SHOWN HEREON BY EXCAVATION
UNLESS OTHERWISE NOTED ON THIS SURVEY.
MISSOURI ONE CALL TICKET NUMBER: #200431409, 200431440,
200431475, 200440745.
THE FIELD WORK WAS COMPLETED ON AUGUST 18, 2020.
DATE OF SURVEY: AUGUST 24, 2020

CONSTRUCTION NOTES:

- COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE ARCHITECT.
- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.
- ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
- PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC, ALONG AND ADJACENT TO CONSTRUCTION AREA.
- CONTRACTOR IS REQUIRED TO PROTECT TRACK SURFACE DURING CONSTRUCTION STAGE WORK AND ACCESS ACCORDINGLY. DAMAGE TO TRACK PAVING OR SURFACING CAUSED BY CONSTRUCTION ACTIVITIES WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.

gould evans

kansas city • lawrence • new orleans
phoenix • san francisco

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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit North High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

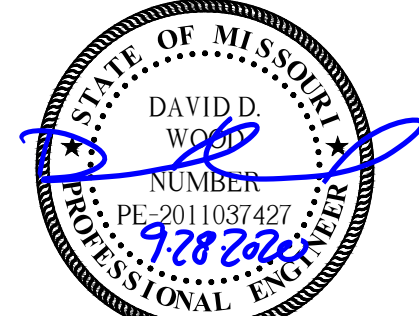
architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
1801 Main St
Kansas City, MO 64108
816.663.8700

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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

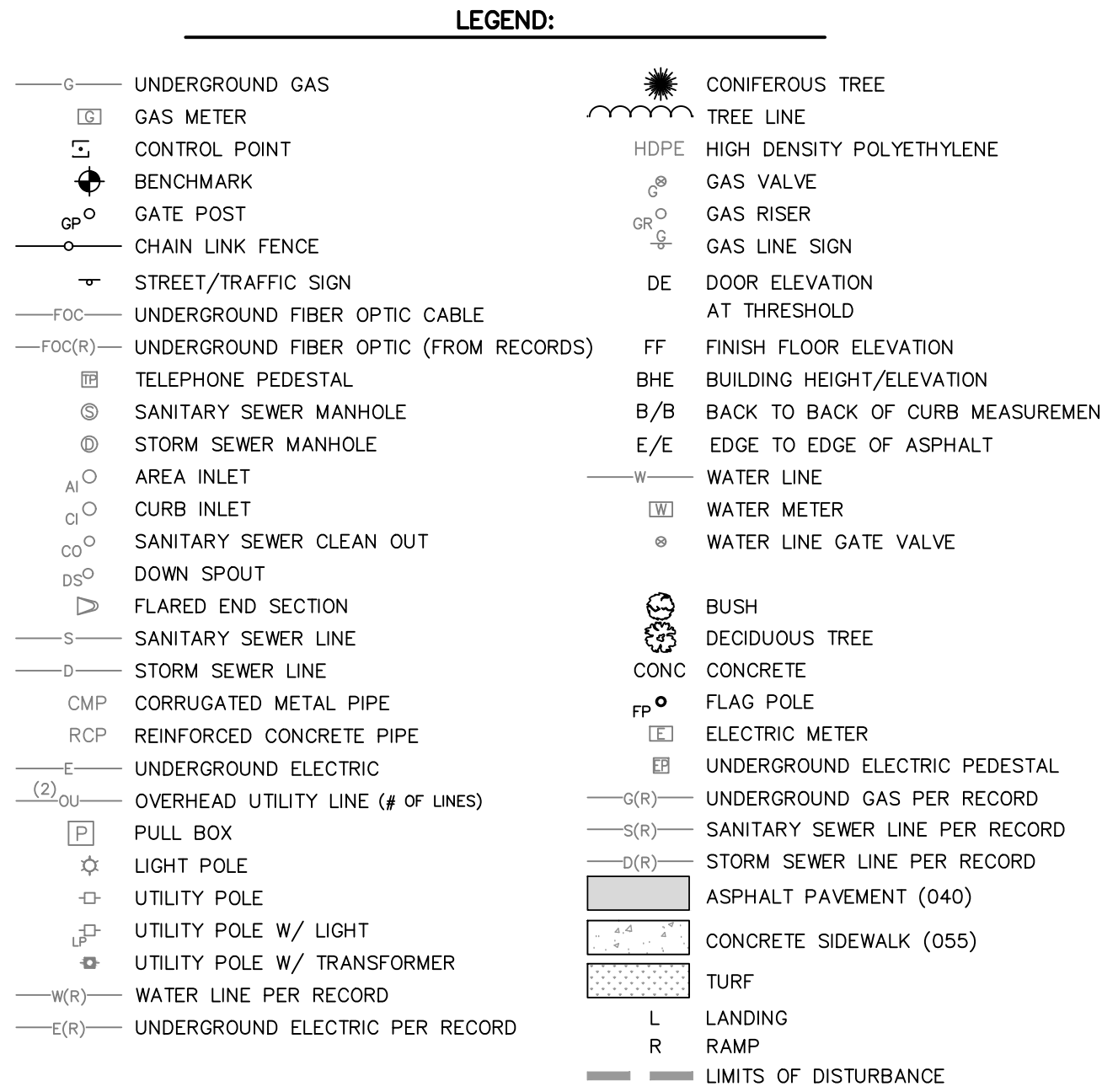
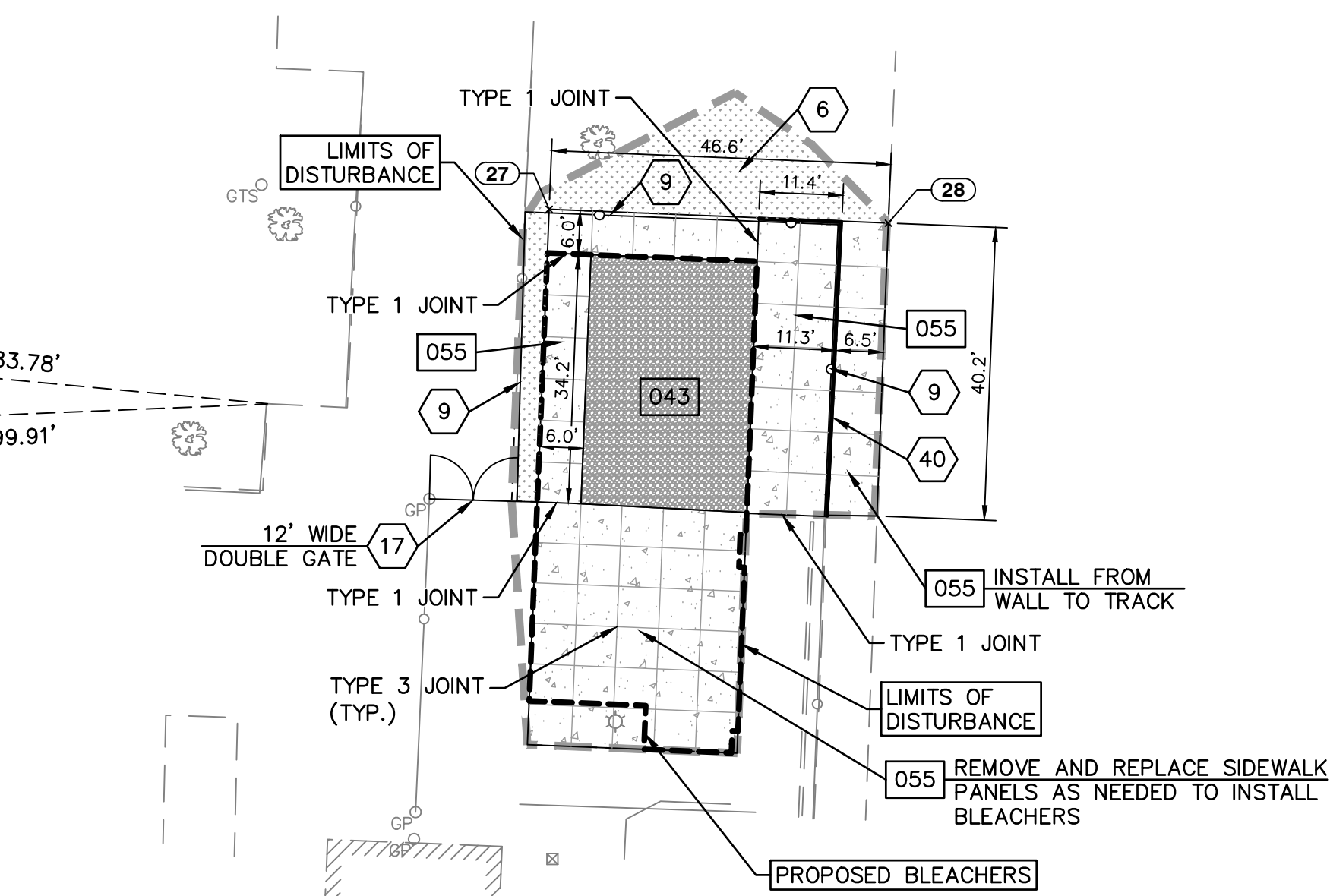
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0100
DATE: September 28, 2020

SITE & DIMENSION PLAN

W-C100

BID SET



Point Table				
Point #	Northing	Easting	Elevation	Description
1	985531.58	2816515.18	0.00	PEDA
2	985524.02	2816579.63	0.00	PEDA
3	985502.10	2816577.72	0.00	PEDA
4	985489.92	2816528.43	0.00	SW
5	985503.90	2816510.51	0.00	SW
6	985508.84	2816511.28	0.00	PEDA
7	985146.40	2816628.67	0.00	SW
8	985133.38	2816589.22	0.00	SW
9	985117.88	2816538.07	0.00	SW
10	985113.99	2816471.16	0.00	SW
11	985064.81	2816468.14	0.00	SW
12	985061.59	2816520.47	0.00	SW
13	985500.72	2816534.39	0.00	BLDG ENVELOPE
14	985499.39	2816549.61	0.00	BLDG ENVELOPE
15	985488.16	2816548.63	0.00	BLDG ENVELOPE
16	985489.49	2816533.41	0.00	BLDG ENVELOPE
17	985135.35	2816595.18	0.00	BLDG ENVELOPE
18	985136.88	2816605.88	0.00	BLDG ENVELOPE
19	985124.38	2816610.67	0.00	BLDG ENVELOPE
20	985120.85	2816599.96	0.00	BLDG ENVELOPE
21	985101.38	2816545.80	0.00	BLDG ENVELOPE
22	985068.17	2816543.76	0.00	BLDG ENVELOPE
23	985071.61	2816487.93	0.00	BLDG ENVELOPE
24	985105.26	2816482.65	0.00	BLDG ENVELOPE
25	985080.04	2816481.10	0.00	BLDG ENVELOPE
26	985128.76	2816480.00	0.00	SW
27	985456.45	2816130.41	0.00	SW
28	985454.55	2816176.92	0.00	SW
29	985103.06	2816139.09	0.00	SW
30	985070.58	2816161.52	0.00	SW

- NOTES:
- WESTERN EXTENTS OF GRAVEL SURFACE TO ABUT UTILITY VAULT. DISTURBED AREA SHALL BE FERTILIZED, MULCHED AND SEEDED WITH A THREE WAY BLEND OF TALL TURF TYPE FESCUE. (REFER TO SEEDING REQUIREMENTS ON SHEET W-C100.) ALL SEEDED AREAS WITHIN 10' OF SIDEWALKS AND BUILDING, WITHIN 5' OF STORM OUTFALLS AND ON SLOPES STEEPER THAN 4:1 SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75BN OR APPROVED EQUAL.)
 - CONCRETE STOOP (REFERENCE STRUCTURAL PLANS.)
 - SIDEWALK RAMP. (REFERENCE ARCHITECTURAL PLANS FOR FINAL LAYOUT AND DIMENSIONS.)
 - PROPOSED FENCING. (REFERENCE ARCHITECTURAL PLANS FOR HEIGHTS, MATERIALS AND DETAILS.)
 - RELOCATED TURNSTILE (REFERENCE ARCHITECTURAL PLANS FOR DETAILS.)
 - ACCESS GATE (REFERENCE ARCHITECTURAL PLANS FOR HEIGHTS, MATERIALS AND DETAILS.)
 - CAST IN PLACE CONCRETE WALL (REFER TO STRUCTURAL PLANS.)
 - PROPOSED OR MODIFIED STORM SEWER STRUCTURE (SEE SHEET W-C500.)
 - SANITARY SEWER STRUCTURE (SEE SHEET W-C500.)
 - WATER STRUCTURE (SEE SHEET W-C500.)
 - PROPOSED TRANSFORMER ON HOUSEKEEPING PAD/ELECTRICAL APPURTENANCE. COORDINATE WITH MEP PLANS.

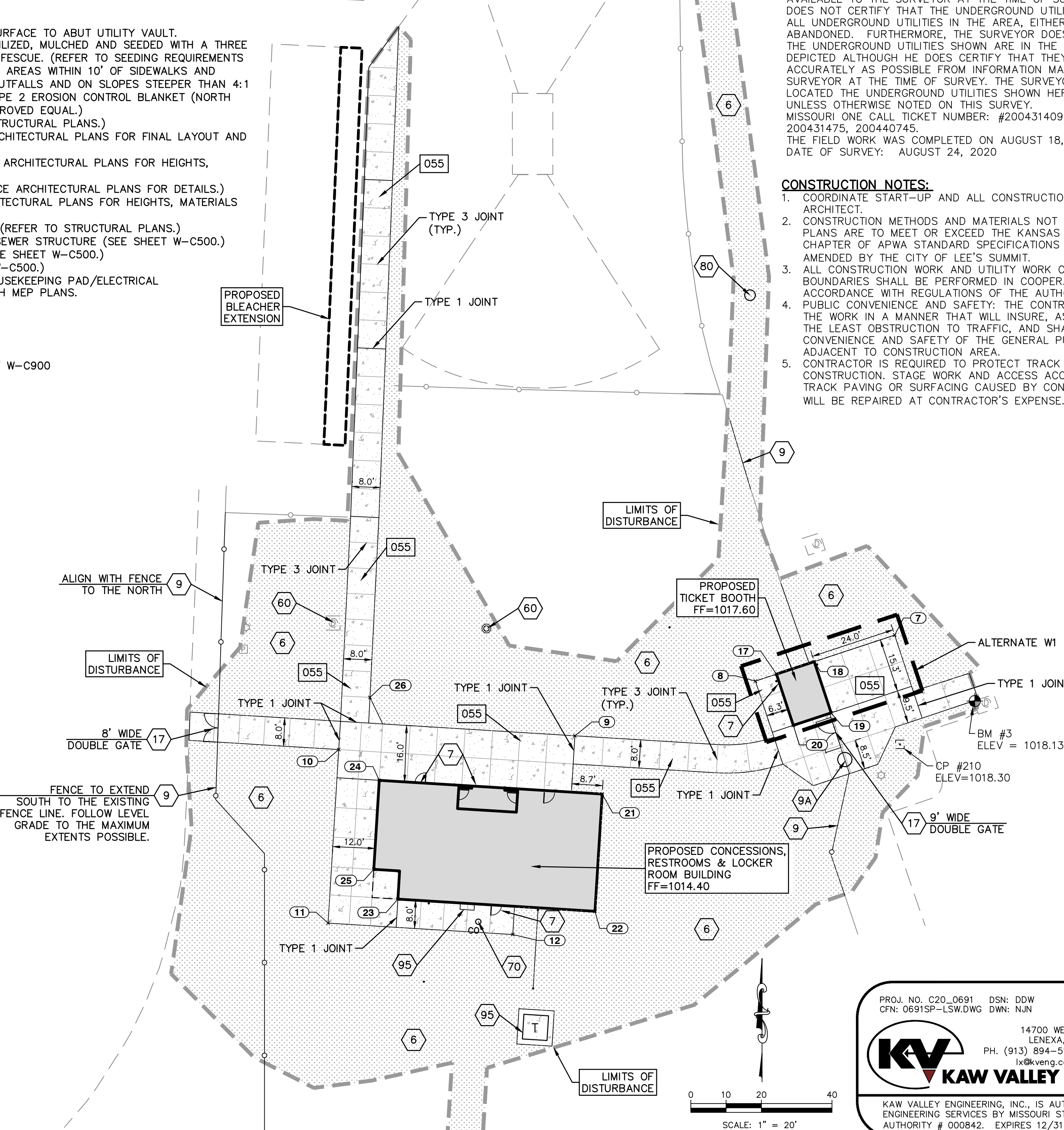
- DETAILS - SEE DETAIL SHEET W-C900 FOR THE FOLLOWING DETAILS
- 040 ASPHALT PAVEMENT
 - 043 AGGREGATE SURFACE
 - 055 CONCRETE SIDEWALK

- NOTE:**
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 - THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

WARRANTY / DISCLAIMER
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CAUTION - NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

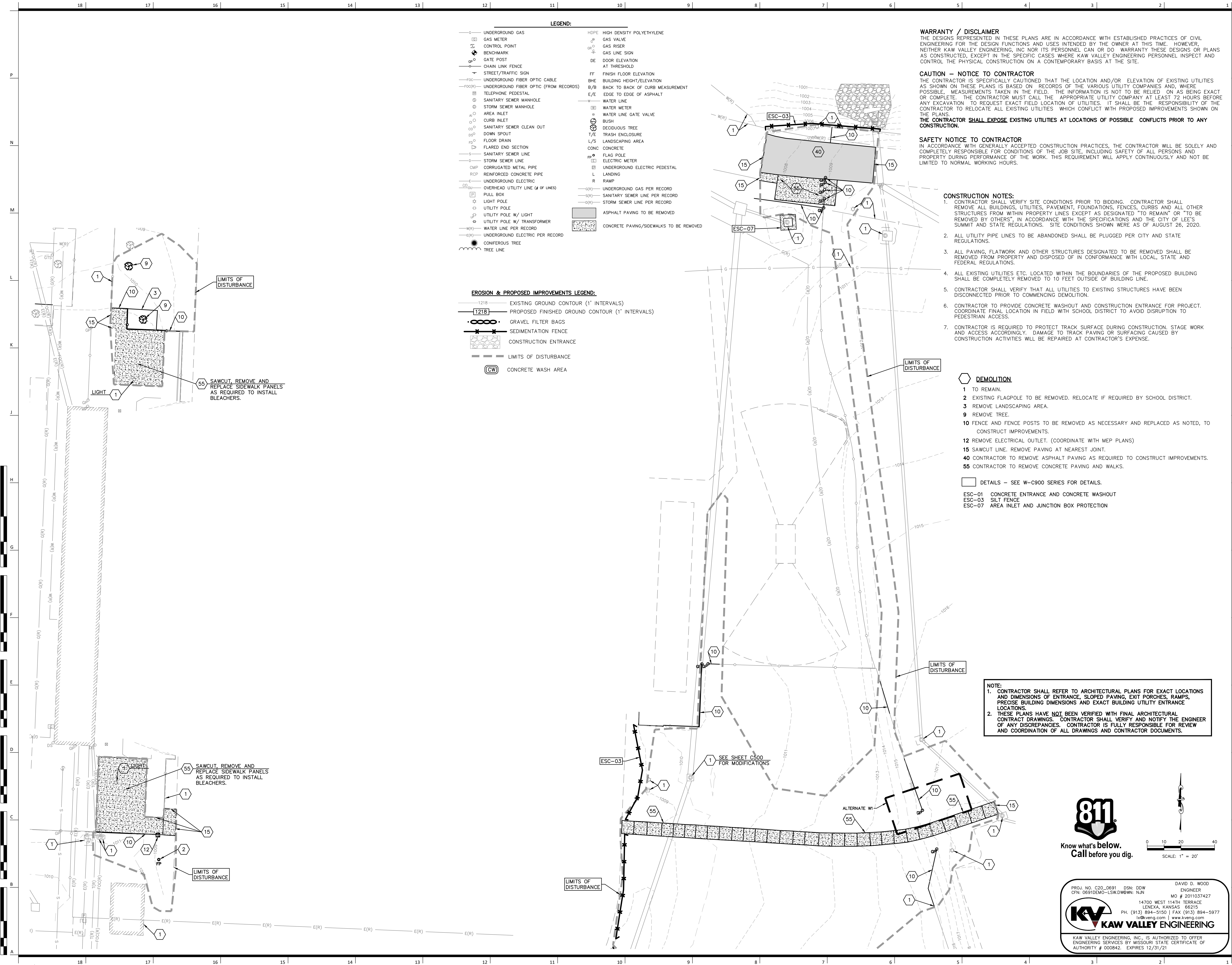
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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit North High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

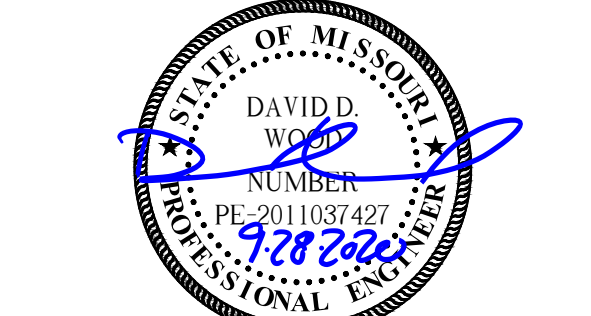
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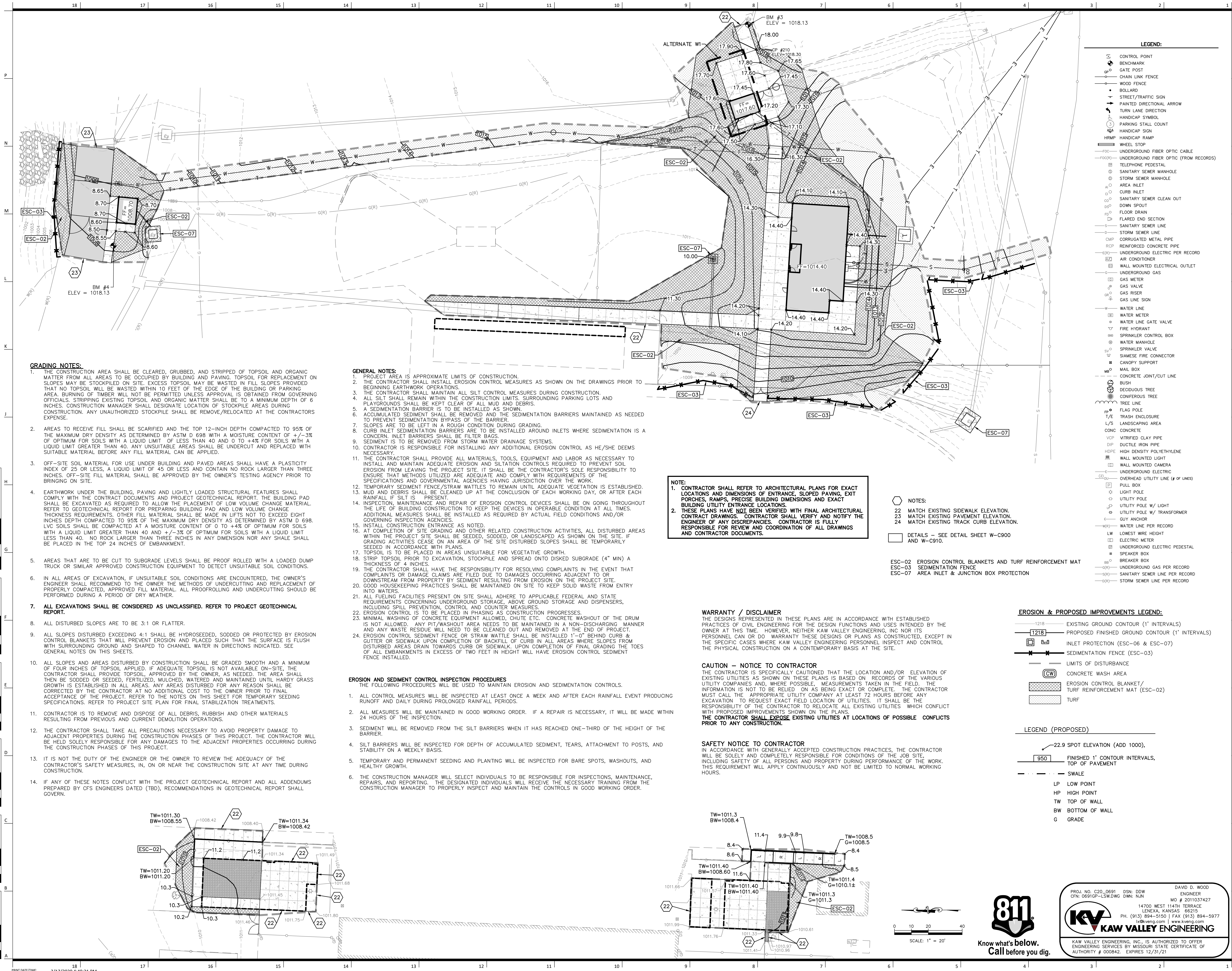
Number DESCRIPTION DATE

PROJECT NO: 0119-0100
DATE: September 28, 2020

**DEMOLITION AND
EROSION CONTROL PLAN**

W-C200

BID SET



GRADING NOTES:

1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. CONSTRUCTION MANAGER SHALL DESIGNATE LOCATION OF STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOCATED AT THE CONTRACTORS EXPENSE.
2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO +4% FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
3. OFF-SITE SOIL MATERIAL FOR USE UNDER BUILDING AND PAVED AREAS SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.
4. EARTHWORK UNDER THE BUILDING, PAVING AND LIGHTLY LOADED STRUCTURAL FEATURES SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND PROJECT GEOTECHNICAL REPORT. THE BUILDING PAD SHALL BE EXCAVATED AS REQUIRED TO ALLOW THE PLACEMENT OF LOW VOLUME CHANGE MATERIAL. REFER TO GEOTECHNICAL REPORT FOR PREPARING BUILDING PAD AND LOW VOLUME CHANGE THICKNESS REQUIREMENTS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. LVC SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT OF 0 TO +4% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40 AND +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 40. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.
5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
7. ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
8. ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.
9. ALL SLOPES DISTURBED EXCEEDING 4:1 SHALL BE HYDROSEED, SODDED OR PROTECTED BY EROSION CONTROL BLANKETS THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED. SEE GENERAL NOTES ON THIS SHEET.
10. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SODDED OR SEED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. REFER TO THE NOTES ON THIS SHEET FOR TEMPORARY SEEDING SPECIFICATIONS. REFER TO PROJECT SITE PLAN FOR FINAL STABILIZATION TREATMENTS.
11. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
13. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
14. IF ANY OF THESE NOTES CONFLICT WITH THE PROJECT GEOTECHNICAL REPORT AND ALL ADDENDUMS PREPARED BY CFS ENGINEERS DATED (TBD), RECOMMENDATIONS IN GEOTECHNICAL REPORT SHALL GOVERN.

GENERAL NOTES:

1. PROJECT AREA IS APPROXIMATE LIMITS OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
4. ALL SILT SHALL REMAIN WITHIN THE CONSTRUCTION LIMITS, SURROUNDING PARKING LOTS AND PLAYGROUNDS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE FILTER BAGS.
9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
10. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
11. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
12. TEMPORARY SEDIMENT FENCE/STRAW WATTLES TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
13. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
14. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
15. INSTALL CONSTRUCTION ENTRANCE AS NOTED.
16. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE SITE. IF GRADING ACTIVITIES CEASE ON AN AREA OF THE SITE DISTURBED SLOPES SHALL BE TEMPORARILY SEEDED IN ACCORDANCE WITH PLANS.
17. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
18. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
19. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
20. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
21. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
22. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
23. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
24. EROSION CONTROL SEDIMENT FENCE OR STRAW WATTLE SHALL BE INSTALLED 1'-0" BEHIND CURB & GUTTER OR SIDEWALK UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM DISTURBED AREAS DRAIN TOWARDS CURB OR SIDEWALK. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

EROSION AND SEDIMENT CONTROL INSPECTION PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS.

1. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT PRODUCING RUNOFF AND DAILY DURING PROLONGED RAINFALL PERIODS.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSPECTION.
3. SEDIMENT WILL BE REMOVED FROM THE SILT BARRIERS WHEN IT HAS REACHED ONE-THIRD OF THE HEIGHT OF THE BARRIER.
4. SILT BARRIERS WILL BE INSPECTED FOR DEPTH OF ACCUMULATED SEDIMENT, TEARS, ATTACHMENT TO POSTS, AND STABILITY ON A WEEKLY BASIS.
5. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
6. THE CONSTRUCTION MANAGER WILL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIRS, AND REPORTING. THE DESIGNATED INDIVIDUALS WILL RECEIVE THE NECESSARY TRAINING FROM THE CONSTRUCTION MANAGER TO PROPERLY INSPECT AND MAINTAIN THE CONTROLS IN GOOD WORKING ORDER.

NOTE:

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NOTES:

- 22 MATCH EXISTING SIDEWALK ELEVATION.
- 23 MATCH EXISTING PAVEMENT ELEVATION.
- 24 MATCH EXISTING TRACK CURB ELEVATION.

DETAILS - SEE DETAIL SHEET W-C900 AND W-C910.

ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT
ESC-03 SEDIMENTATION FENCE
ESC-07 AREA INLET & JUNCTION BOX PROTECTION

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EROSION & PROPOSED IMPROVEMENTS LEGEND:

- EXISTING GROUND CONTOUR (1' INTERVALS)
- PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
- INLET PROTECTION (ESC-06 & ESC-07)
- SEDIMENTATION FENCE (ESC-03)
- LIMITS OF DISTURBANCE
- CONCRETE WASH AREA
- EROSION CONTROL BLANKET/ TURF REINFORCEMENT MAT (ESC-02)
- TURF

LEGEND (PROPOSED)

- 22.9 SPOT ELEVATION (ADD 1000),
- FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
- SWALE
- LP LOW POINT
- HP HIGH POINT
- TW TOP OF WALL
- BW BOTTOM OF WALL
- G GRADE

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**Lee's Summit R7 District
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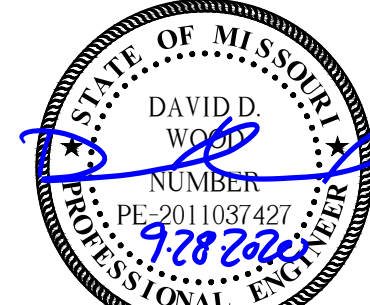
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David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0100
DATE: September 28, 2020

**GRADING AND EROSION
CONTROL PLAN
W-C300**

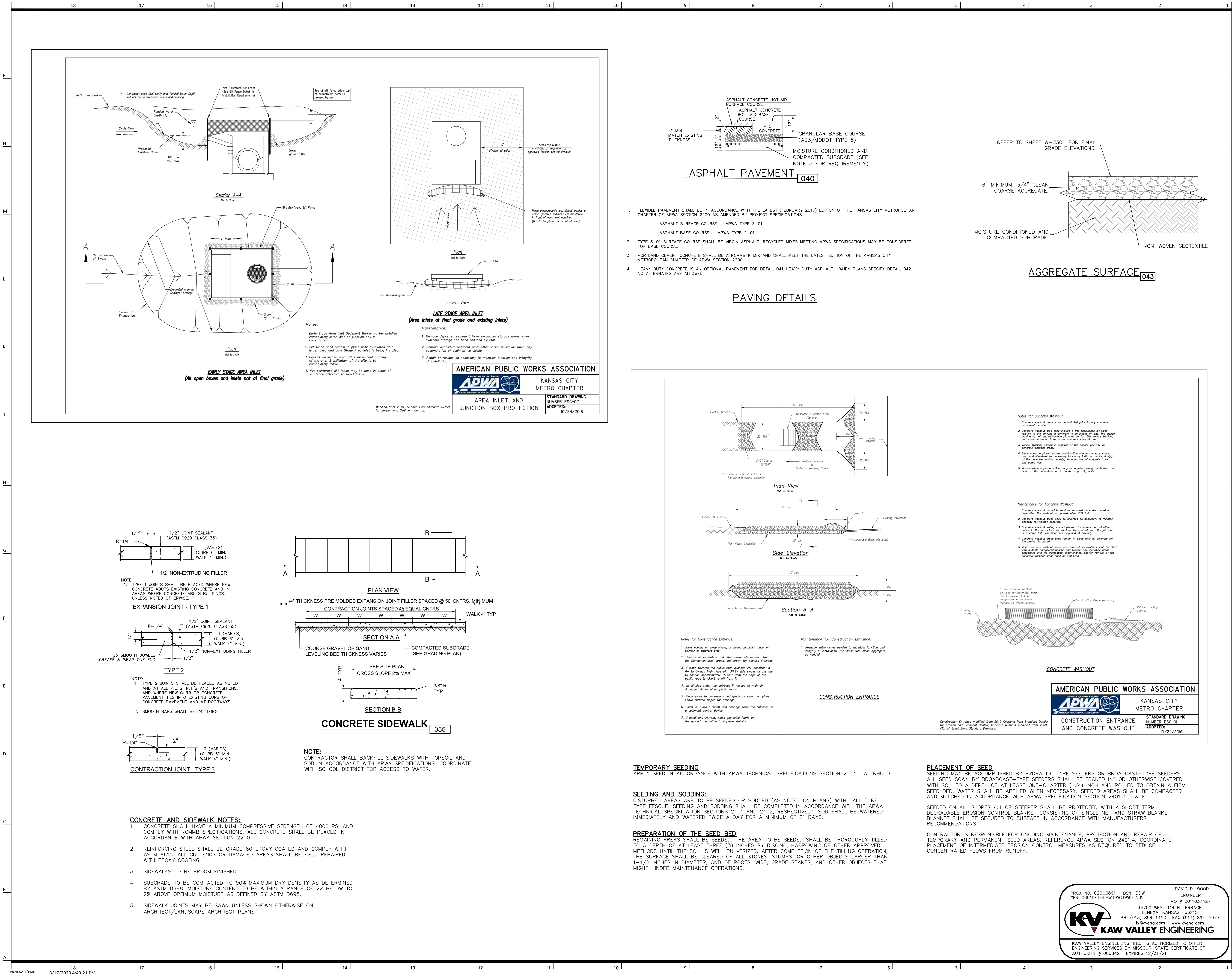
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PROJ. NO. C20_0691 DSN: DDW DAVID D. WOOD ENGINEER
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SCALE: 1" = 20'



Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
2600 SW Ward Road
Lee's Summit, MO 64082

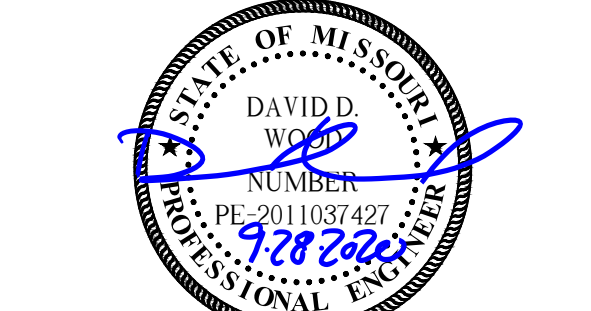
owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue
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816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
1801 Main St
Kansas City, MO 64108
816.663.8700

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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0100
DATE: September 28, 2020

SITE DETAILS

W-C900

BID SET

PROJ. NO. C20_0691
CFN: 0691DET-LSW.DWG
DWN: NJN

DSN: DDW
MO # 2011037427
14700 WEST 114TH TERRACE
LENEXA, KANSAS 66215
PH. (913) 894-5150 | FAX (913) 894-5977
www.kveng.com | www.kveng.com

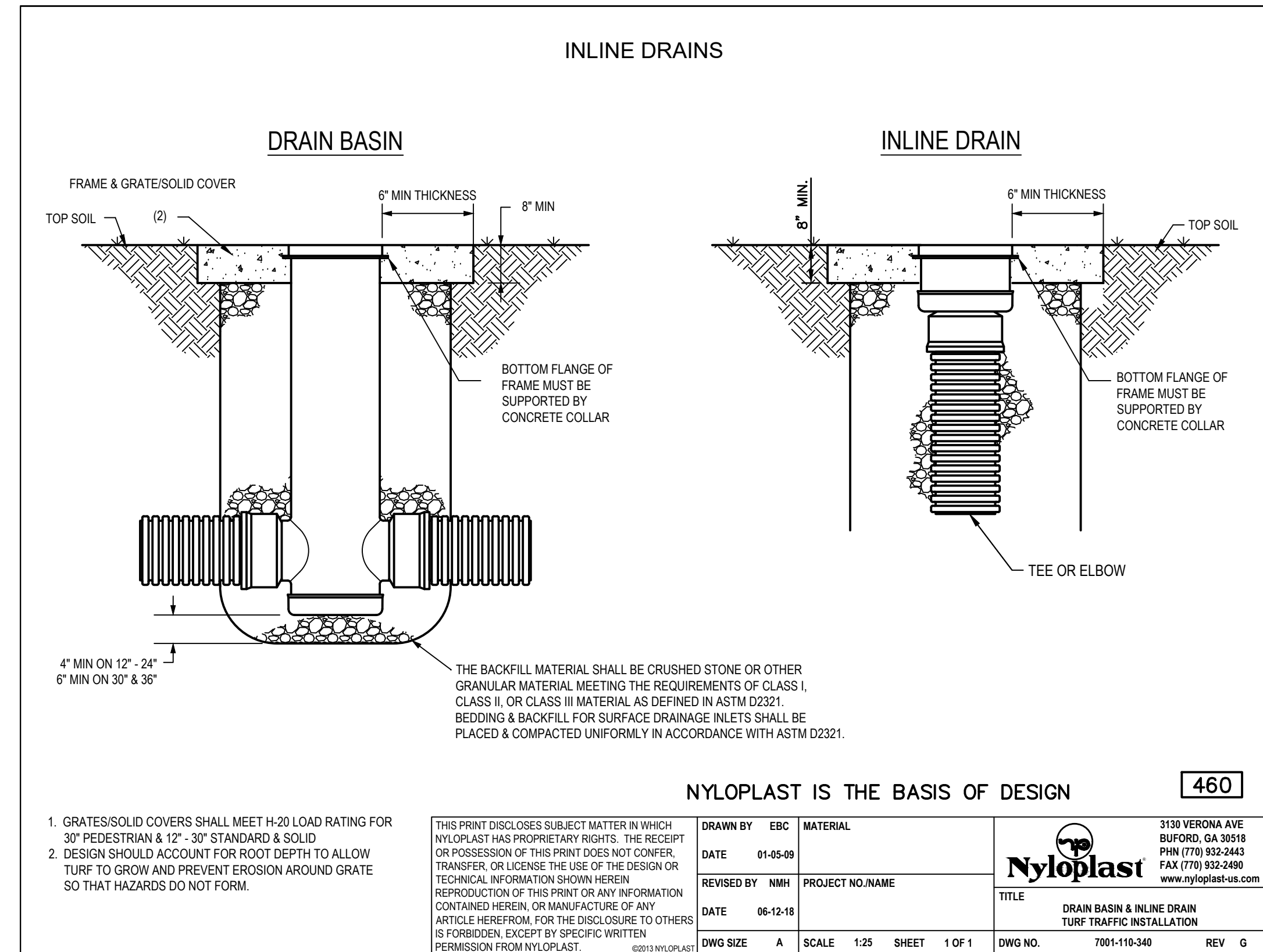
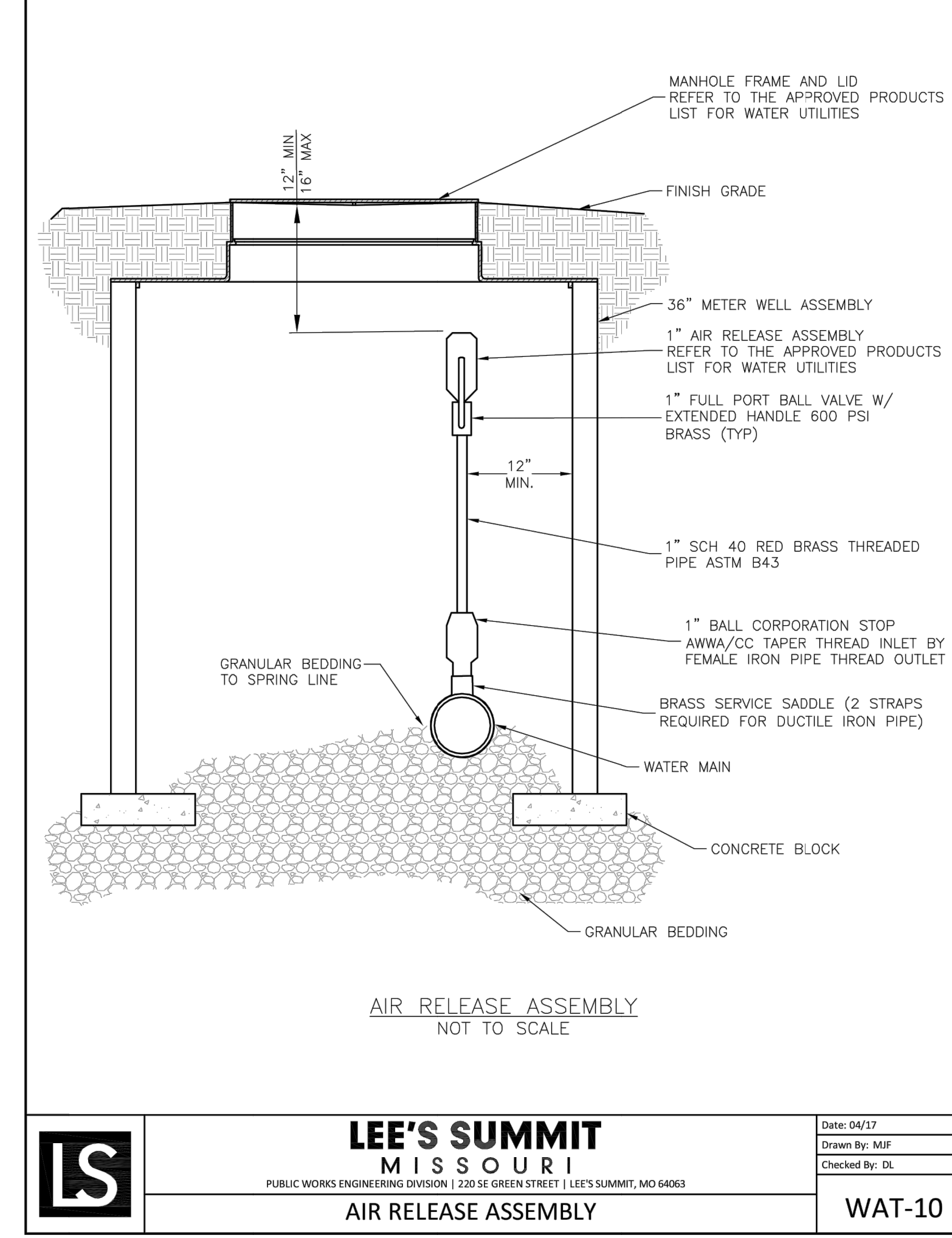
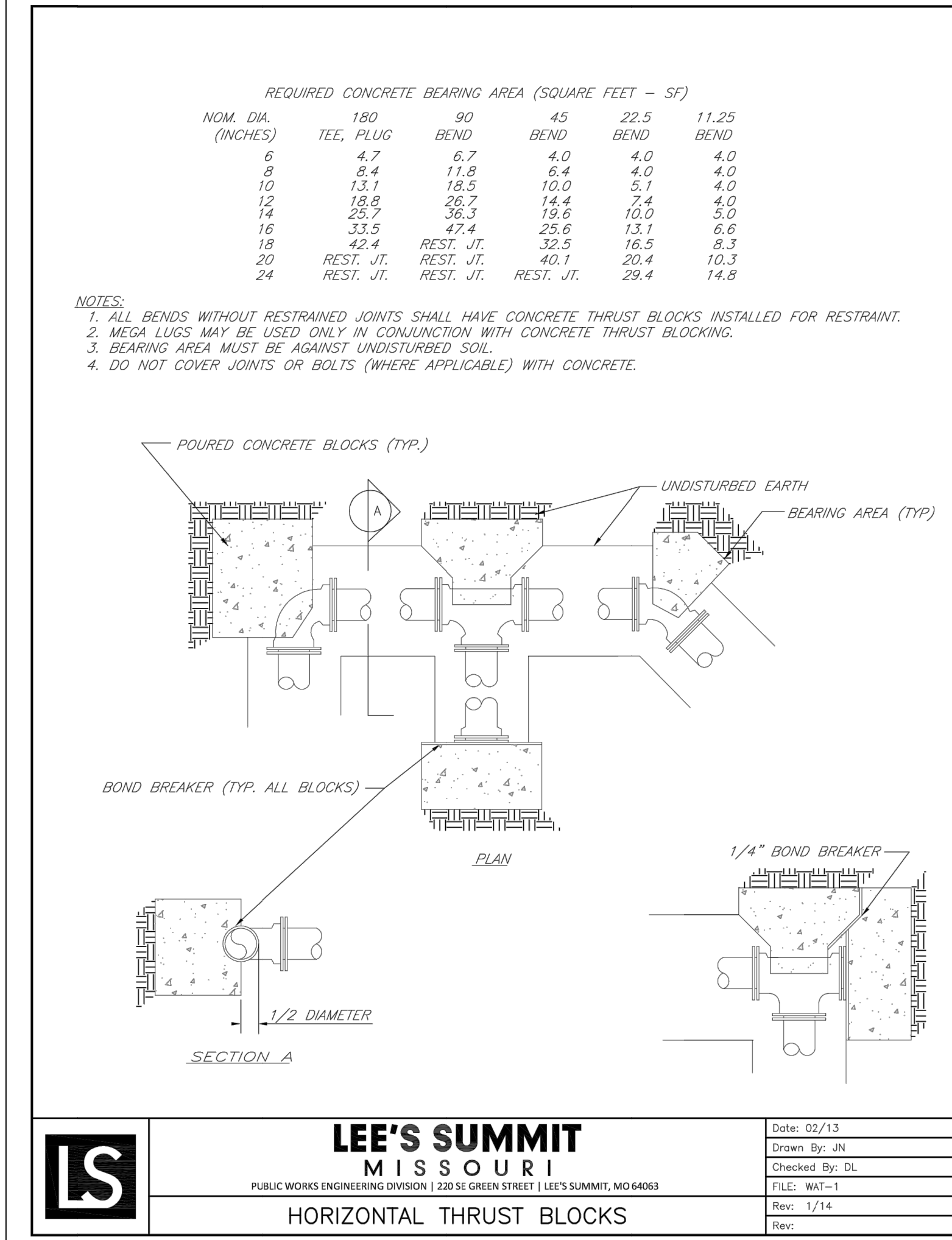
KAW VALLEY ENGINEERING

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DAVID D. WOOD
ENGINEER

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P
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JUNCTION BOX YARD INLETS AND CURB INLET NOTES

GENERAL

1. ALL STORM SEWER STRUCTURES SHALL BE PRE-CAST OR POURED IN PLACE. IF PRE-CAST STRUCTURES ARE USED FOR PUBLICLY FINANCED, MAINTAINED OR ADMINISTERED CONSTRUCTION, THE TOPS SHALL BE POURED IN PLACE AND THE WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION, OR AS DIRECTED BY THE CITY ENGINEER.
2. PRE-CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
4. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION, THE SECOND DIMENSION IS THE "W" DIMENSION, THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L" + "W") AND ("W" + "H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.

CONCRETE

5. CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (A5) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
6. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS.
7. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
8. BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.
9. 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "H" + "L" NOR "H" + "W" (IN FEET) EXCEED FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR LESS.
10. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

REINFORCING STEEL

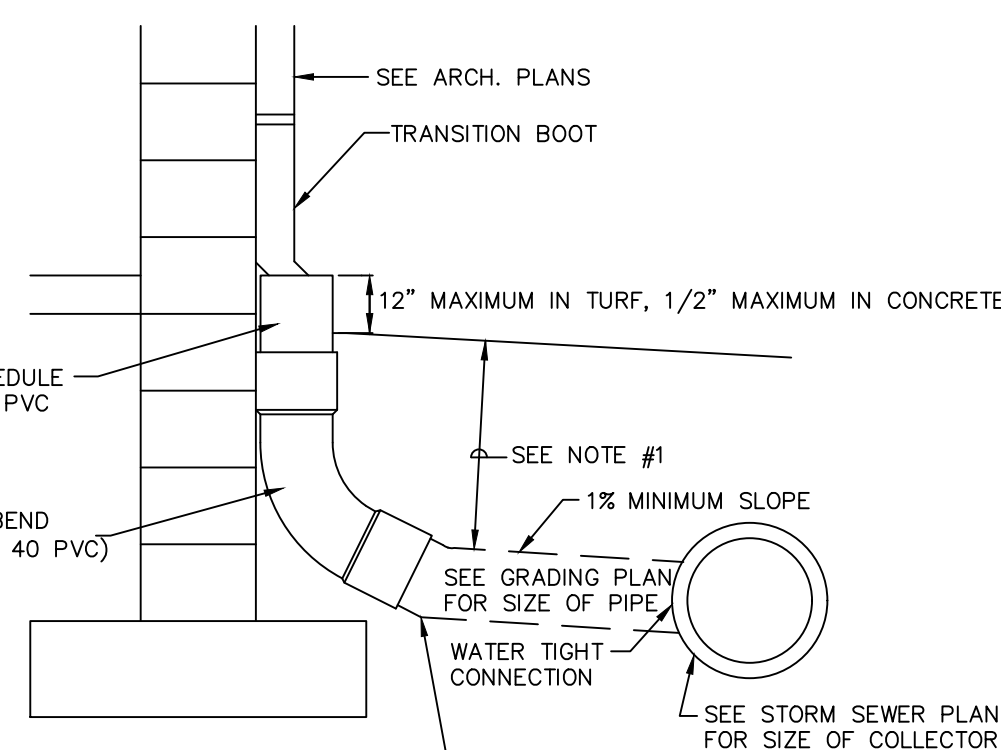
11. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
12. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 3/8" SHALL BE PERMITTED.
13. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
15. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.

CONSTRUCTION

16. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
17. PIPE CONNECTIONS TO PRE-CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
18. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

NOTES:

- 1) FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
- 2) A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.
- 3) THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.

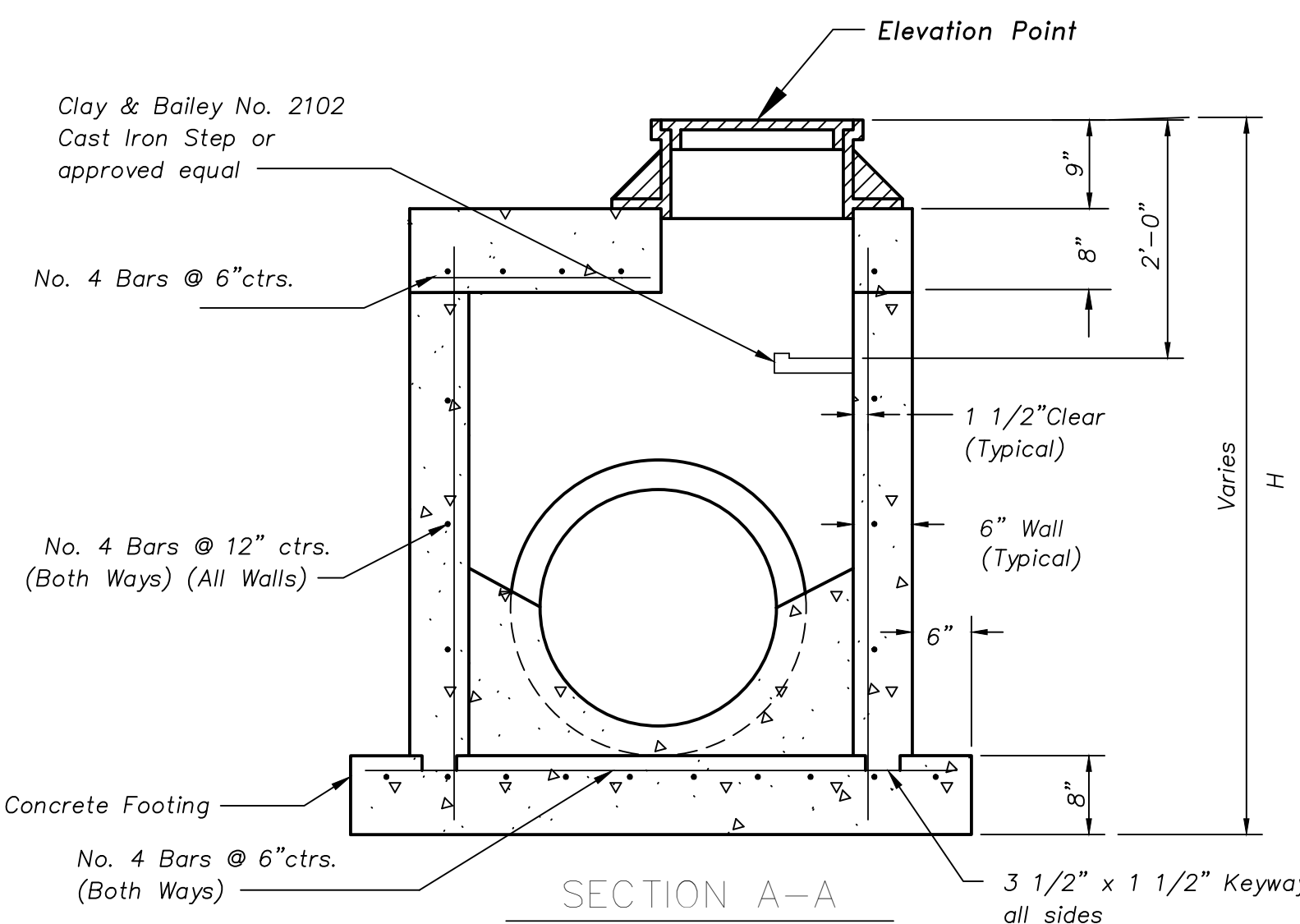


DOWNSPOUT COLLECTOR

433

JUNCTION BOX

402



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Lee's Summit R7 District Athletics Facilities

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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood
Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0100
DATE: September 28, 2020

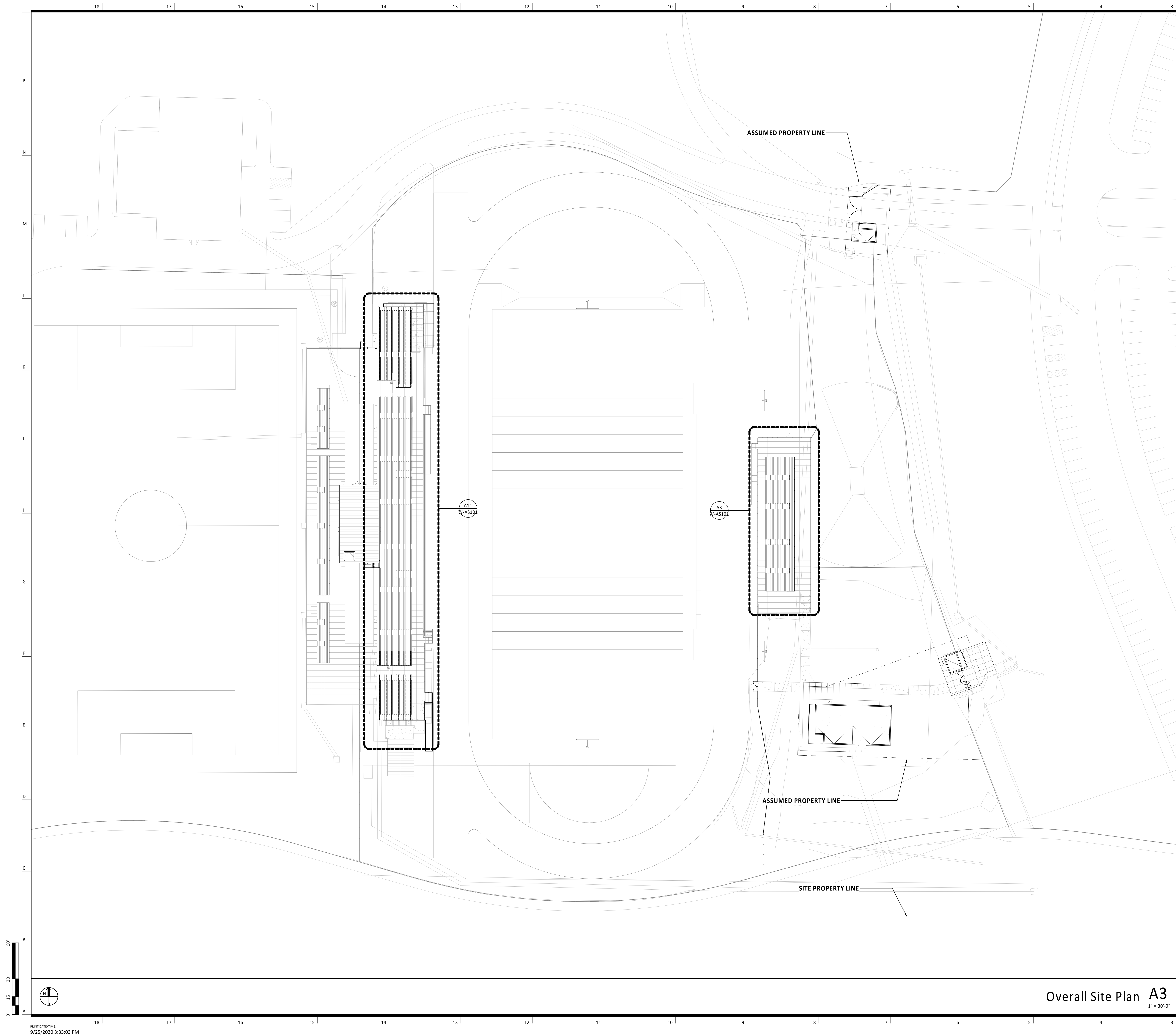
UTILITY DETAILS

W-C920

BID SET

PROJ. NO. C20-0691 DSN: DDW DAVID D. WOOD
CFN: 0691DET-LSW.DWG DWN: NJN ENGINEER
MO # 2011037427
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k@kveeng.com | www.kveeng.com

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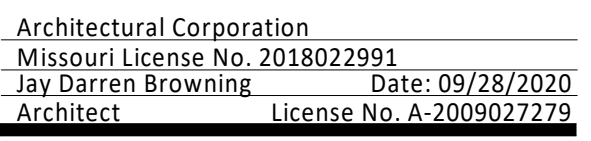
1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MINIMUM FOR ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
3. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING
4. BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE
5. FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 1 FOOT HORIZONTAL UNLESS NOTED OTHERWISE
6. ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES TO EXISTING SITE ELEMENTS TO REMAIN.
7. EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED.

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owner:
Lee's Summit R-7 School District
 301 NE Tudor Road
 Lee's Summit, MO 64086

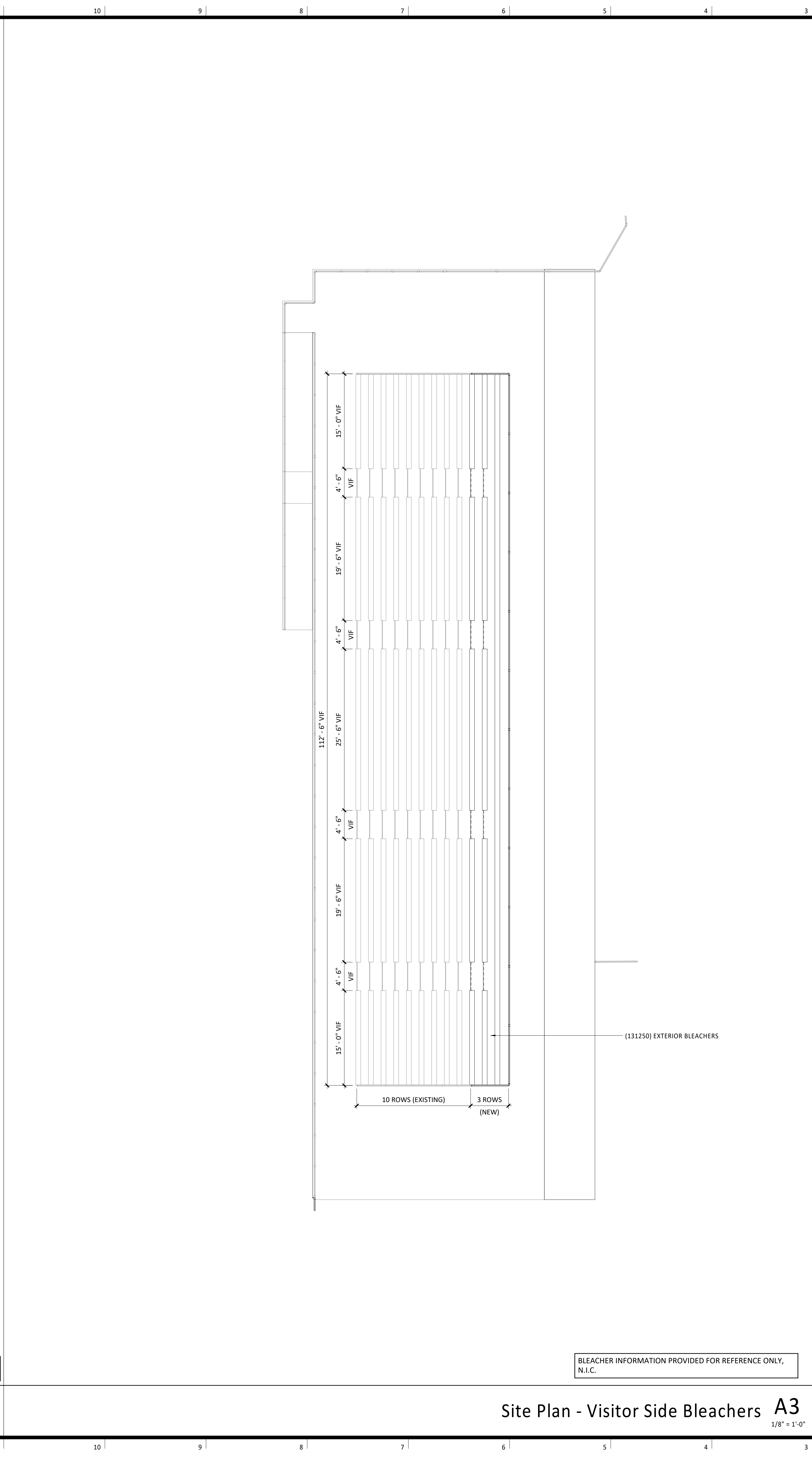
structural engineer:
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Kansas City, MO 64111
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mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



REVISIONS		
Number	DESCRIPTION	DATE

BID SET



- ## General Notes (Site Plan):
1. COORDINATE ALL LOT/ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
 2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS AND SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
 3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE
 4. FINISH OF FLOORS SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE
 5. ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO OBSTRUCTIONS TO EXISTING SITE ELEMENTS TO REMAIN.
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Lee's Summit R7 District Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

Owner:
Lee's Summit R-7 School District
801 NE Tudor Road
Lee's Summit, MO 64086

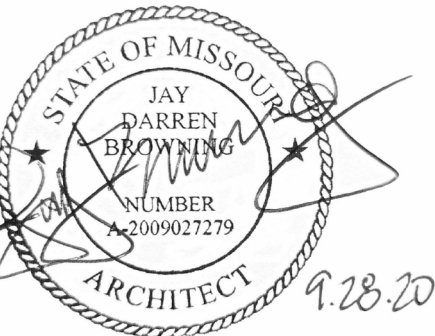
Architect:
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Architectural Corporation
Missouri License No. 2018022991
by Darren Browning Date: 09/28/202
Architect License No. A-200902727

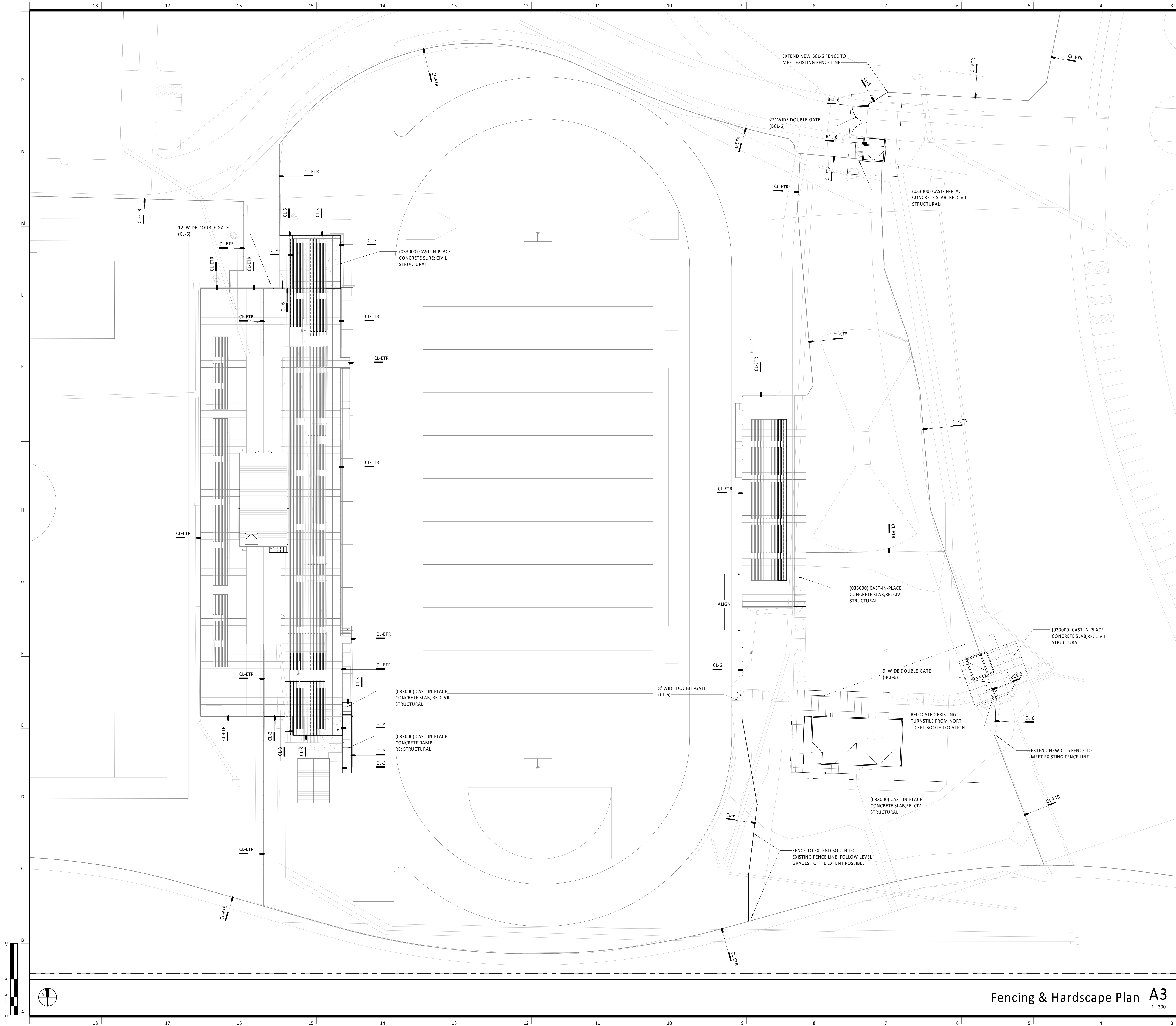
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Bleacher Plans

W-AS101

BID SET



- General Notes (Site Plan):**
- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
 - PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
 - PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE
 - FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE
 - ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES TO EXISTING SITE ELEMENTS TO REMAIN.
 - EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED.

Fencing Types	
Mark	Type Comments
BCL-6	(323113) Black Vinyl-Coated Chain Link Fence - 6' High
CL-3	(323113) Chain Link Fence - 4' High
CL-6	(323113) Chain Link Fence - 6' High
CL-ETR	(323113) Chain Link Fence (Existing To Remain)

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Lee's Summit R7 District Athletics Facilities

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Lee's Summit, MO 64082

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Architectural Corporation
Missouri License No. 2018022991 Date: 09/28/2020
Jay Darren Browning Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Fencing & Hardscape Plan

W-AS201

BID SET

GENERAL NOTES - STRUCTURAL

1. General Information

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new work/opening using ground penetrating radar and notify the engineer of record for review prior to cutting/coring. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
- C. All design and construction work for this project shall conform to the requirements of the following governing design codes:
- 1) International Building Code (IBC 2018) as amended by the city of Lee's Summit, MO
 - 2) Minimum Design Loads for Buildings and Other Structures (ASCE7-16)
 - 3) Specification for Structural Steel Buildings (AISC 360-16)
 - 4) Structural Welding Code (AWS D1.4:2017)
 - 5) Building Code Requirements for Structural Concrete (ACI 318-14)
 - 6) Building Code Requirements for Masonry Structures (ACI 530-13/TMS 402-16)
 - 7) North American Specification for the Design of Cold-Formed Steel Structural Members (AIS 100-16)
 - 8) National Design Specification (NDS) for Wood Construction with 2018 Supplements (ANSI/AWC NDS-2018)
 - 9) Special Design Provisions for Wind and Seismic (AWC SDPWS-2015)
- D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

- A. Floor Live = 100 psf
- B. Roof Live = 20 psf
- C. Snow: $P_g = 20\text{psf}$, $P_f = 14\text{psf}$, $s = 1.0$, $C_e = 1.0$, $C_t = 1.0$, Drift per ASCE/SEI 7
- D. Lateral Loads:
- 1) Wind: $V = 109$ mph, Exposure B
 - Occupancy [Risk] Category II, $I_w = 1.0$ GCp=+0.18
 - Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable
 - 2) Seismic: $S_s = 0.114$, $S_1 = 0.067$
 - Occupancy [Risk] Category II, $I_e = 1.0$
 - Site Classification D, $S_{ds} = 0.121$, $S_{d1} = 0.107$
 - Seismic Design Category B
 - Basic Seismic Force-resisting System:
 - Bearing Wall Systems - Ordinary reinforced masonry shear walls
 - Equivalent Lateral Force Procedure
 - $R = 2$, $V = 0.085W$, $\Omega = 2.5$, $C_d = 1.5$
- E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code.

3. Concrete

- A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- B. All concrete for interior flatwork (without floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- C. All concrete for interior flatwork (with floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- D. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
- E. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- F. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
- G. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 5 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
- H. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer's recommendation details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
- I. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
- J. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
- K. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
- L. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
- M. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
- B. Clear minimum coverage of concrete over reinforcing steel shall be as follows:
- 1) Concrete placed against earth: 3"
 - 2) Formed concrete against earth: 2"
 - 3) Slabs: 1"
 - 4) Beams or Columns: 1-1/2"
 - 5) Other: 2"
- C. All coverage shall be nominal bar diameter minimum.
- D. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
- E. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 x #4 vertical support bars for corners.
- F. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
- G. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
- H. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
- I. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
- J. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be dove-tailed to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
- K. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

5. Structural Steel

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
- B. All welding shall conform to the recommendations of the AWS.
- C. All exterior steel and connections, and brack relief angles shall be hot-dip galvanized.
- D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Frame Beam Connections" for the indicated reactions shown in the beam shear connection table on sheet H-S300; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support.
- E. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his/her seal.
- F. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. All braced frames washers shall be welded all around to the column base plate with 3/16" fillet weld.
- G. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web reinforcing.
- H. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to the beams with 1/2" of 1/8" fillet weld each side (minimum).
- I. All K-series joists bearing on masonry walls shall have 2" x 3/8" x 6" bearing plates set in bond beams. Bearing plates shall be located not more than 1/2" from the face of the wall on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded to beams or bearing plates with 1-1/2" of 1/8" fillet weld each side (minimum).
- J. All steel joists shall have horizontal bar or angle bridging per Steel Joist Institute Specifications. Provide rigid x-bracing in addition to and matching horizontal bridging where joists are discontinuous unless horizontal bridging is anchored to wall top and bottom. Joist sweep allowance shall comply with AISC Standard Practice.
- K. Steel joists shall be designed for uplift per Components & Cladding Roof Uplift Pressures Table on this sheet.
- L. All openings in steel joist roof to have 3x3x1/4 angle frame set between joists. Support mechanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and bottom chord of joists to distribute load to joist panel points.
- M. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications.
- N. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.
- O. Allow 10 tons structural steel to be used as directed in field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included. 50% of structural steel allowance shall be bid as miscellaneous galvanized angle and plate.

6. Post Installed Anchors

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
- B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 308.2 and ICC-ES AC108. All anchors shall be installed per the anchor manufacturer's written instructions.
- C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
- D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC101. All anchors shall be installed per the anchor manufacturer's written instructions.
- E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
- F. Anchors used in hollow concrete shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate section tubes used for adhesives.

7. Foundations

- A. The soil investigation was prepared by _____, the report number is _____ and the telephone number is _____.
- B. Structural foundations consist of a network of straight shaft drilled piers (caissons) established on _____ capable of safely supporting _____ end bearing. Each pier hole shall be probed to a depth of _____ below pier bottom and observed by the project soils engineer for suitable bearing material.
- C. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill or undisturbed soil capable of safely sustaining _____ pcf.
- D. Retaining walls are designed for an active lateral load of _____ pcf equivalent fluid pressure.
- E. Basement walls are designed for an at rest lateral load of _____ pcf equivalent fluid pressure. See General Note _____ for wall bracing requirements.
- F. Contractor shall provide for dewatering at excavations from either surface water or seepage.
- G. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
- H. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
- I. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

8. Concrete Masonry Units

- A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2650 psi and laid up using type N mortar such that f_m equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "M" mortar and grouted solid.
- B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
- C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
- D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the architectural drawings.
- E. Concrete block shall be reinforced as indicated on Sheet H-S002.
- F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day age and 3/8" maximum aggregate size.
- G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support architectural detail.
- H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
- I. Unless over all openings up to 8'-0" wide in new and existing masonry unless otherwise covered shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. All exterior linels to be galvanized.
- J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing (unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

9. Light Gage Metal Structural Framing

- A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
- B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
- C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
- D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, bolting, or bolting. Wire tying of components is not permitted.
- E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.
- F. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the engineer.

10. Shop Drawing Review

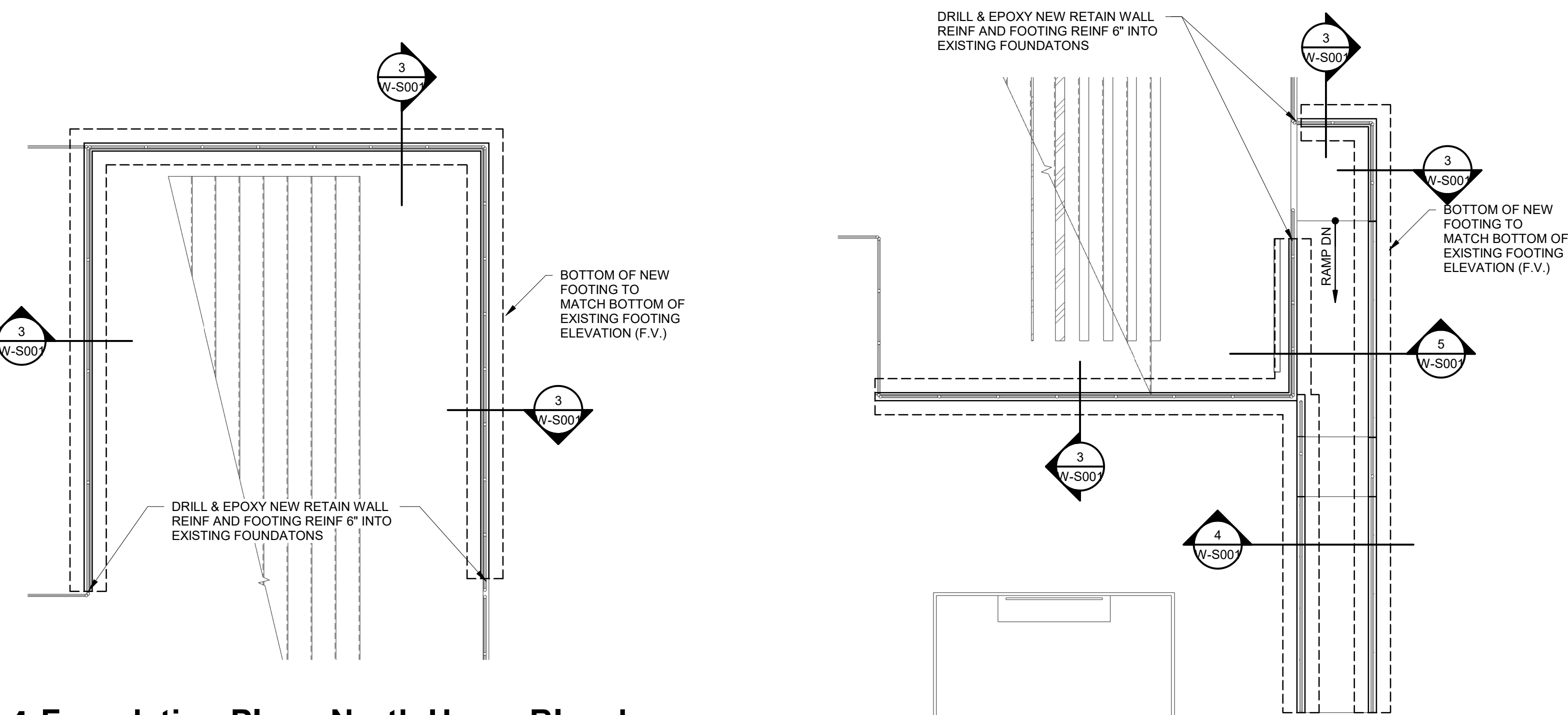
- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
- 1) Review each submittal for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
 - 2) Review and approve each submission.
 - 3) Stamp each submission as approved.
- C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
- D. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials and comments provided that such submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.
- E. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to prepare the review, Bob D. Campbell and Company, Inc. shall notify the GC.
- 1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
 - 2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
 - 3) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
 - 4) Grout mix designs (for CMU).
 - 5) Construction and control joint plans and/or elevations.
 - 6) Structural steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
 - 7) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
 - 8) Grout mix designs (for CMU).
 - 9) Construction and control joint plans and/or elevations.
 - 10) Structural steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
- F. Erection plans and details for light gage metal joists and lintels spanning more than 6'-0" shall be submitted. Standard wall framing need not be submitted.

11. Statement of Structural Special Inspections

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704.2 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
- C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
- D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
- E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
1. Shop Fabrication - structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop
 2. Shop Fabrication - pre-engineered wood trusses per Section 1704.2.5 unless TPI certified shop
 3. Steel Construction per Section 1705.2 and the quality assurance requirements of AISI 341 Chapter J (as referenced by AISC 360)
 4. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI Q/A/C
 5. Concrete Construction per Section 1705.3 and Table 1705.3
 6. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI 530/ASCE 5 and TMS 602/A530.1/VASCE 6 [Level B]

12. Copyright and Disclaimer

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and Company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- B. I, Richard C. Crabtree, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I thereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



1 Foundation Plan - North Home Bleachers

18\"/>

NOTES:

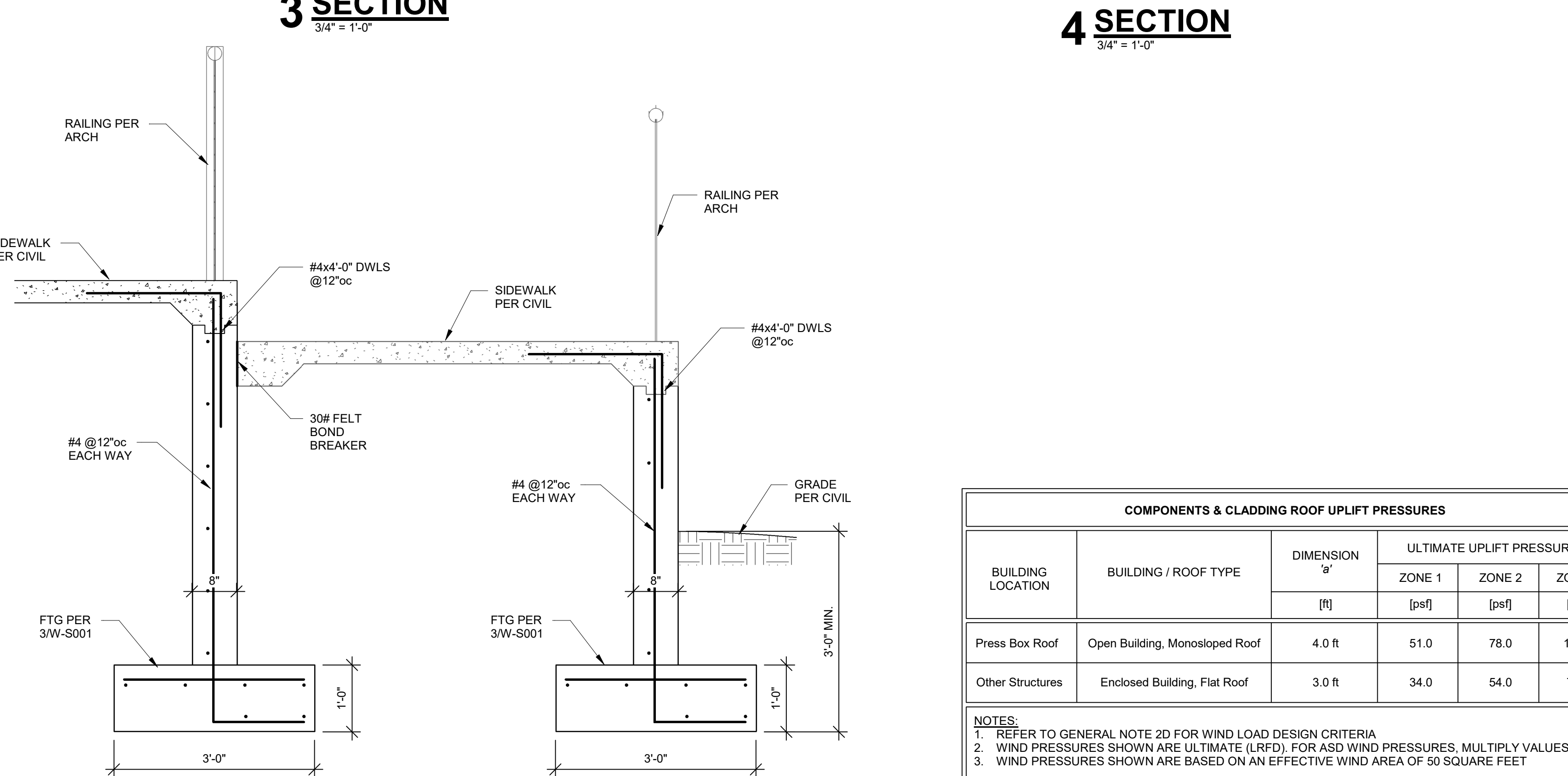
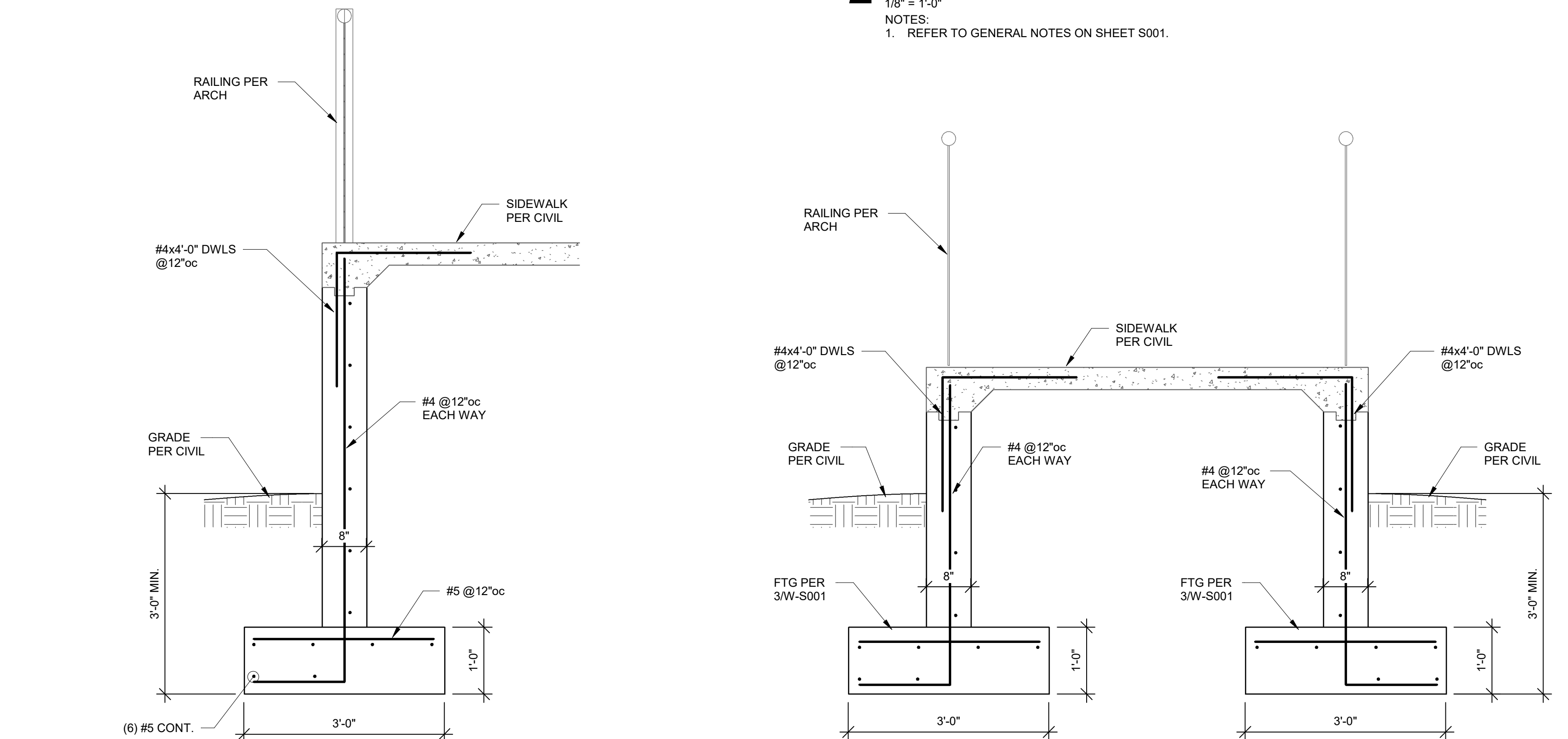
1. REFER TO GENERAL NOTES ON SHEET S001.

2 Foundation Plan - South Home Bleachers

18\"/>

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S001.



COMPONENTS & CLADDING ROOF UPLIFT PRESSURES					
BUILDING LOCATION	BUILDING / ROOF TYPE	DIMENSION ft	ULTIMATE UPLIFT PRESSURE		
			ZONE 1	ZONE 2	ZONE 3
		[ft]	[psf]	[psf]	[psf]
Press Box Roof	Open Building, Monosloped Roof	4.0 ft	51.0	78.0	102.0
Other Structures	Enclosed Building, Flat Roof	3.0 ft	34.0	54.0	73.0

NOTES:

1. REFER TO GENERAL NOTE 2D FOR WIND LOAD DESIGN CRITERIA
2. WIND PRESSURES SHOWN ARE ULTIMATE (LRFD). FOR ASD WIND PRESSURES, MULTIPLY VALUES BY 0.6
3. WIND PRESSURES SHOWN ARE BASED ON AN EFFECTIVE WIND AREA OF 50 SQUARE FEET

Lee's Summit R7 District Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

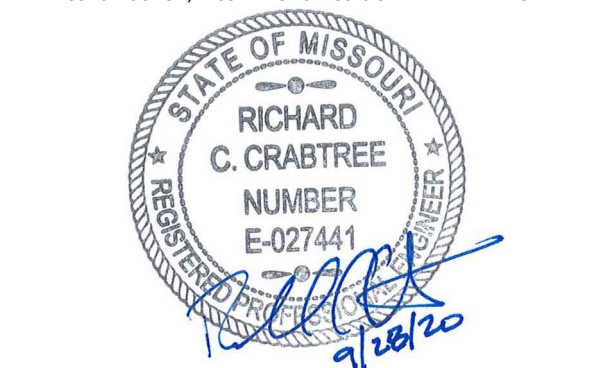
owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 6408

architect:
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www.goulddevans.com
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
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civil engineer:
Kaw Valley Engineering
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mechanical/electrical engineer:
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PROJECT NO: 0119-0101
DATE: September 28, 2020

General Notes & Site Foundation Plans

W-S001

Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 6408

architect:
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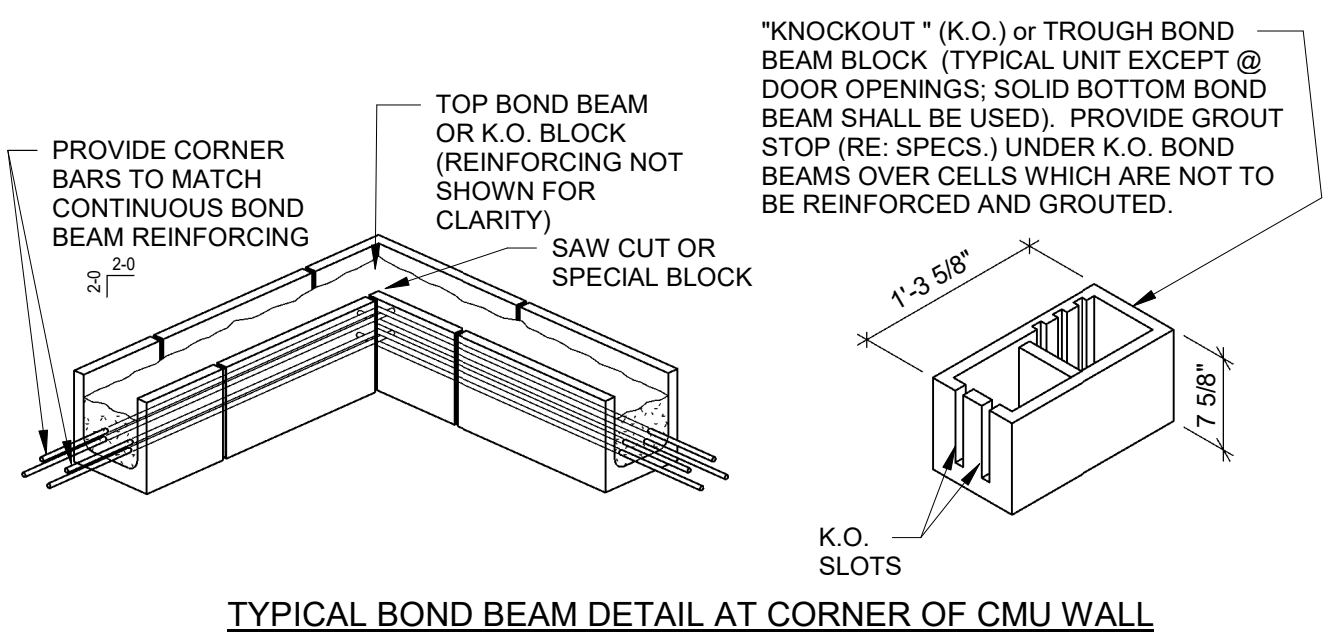
Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

CMU Details

W-S002

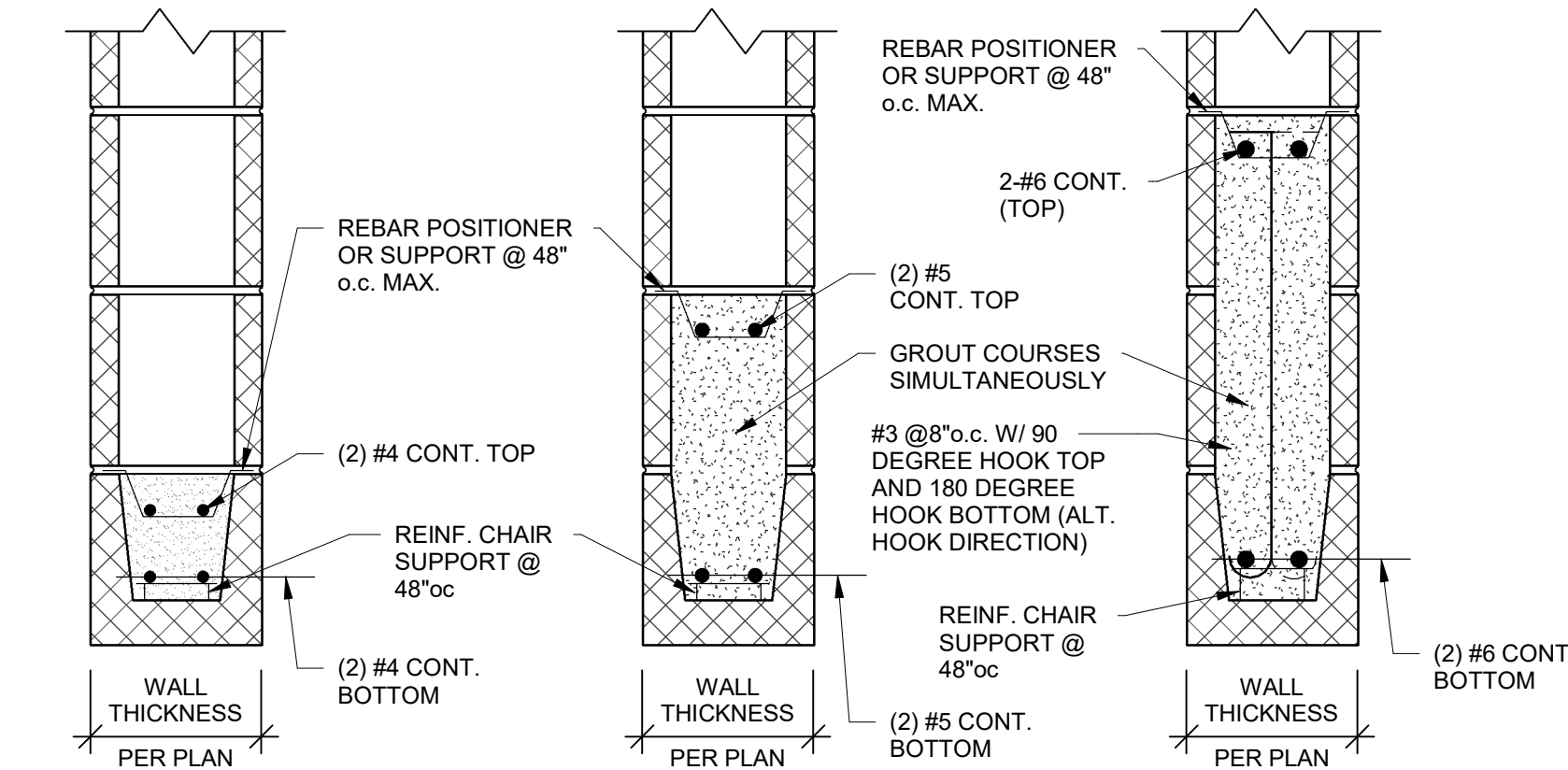
BID SET



TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

D DETAIL

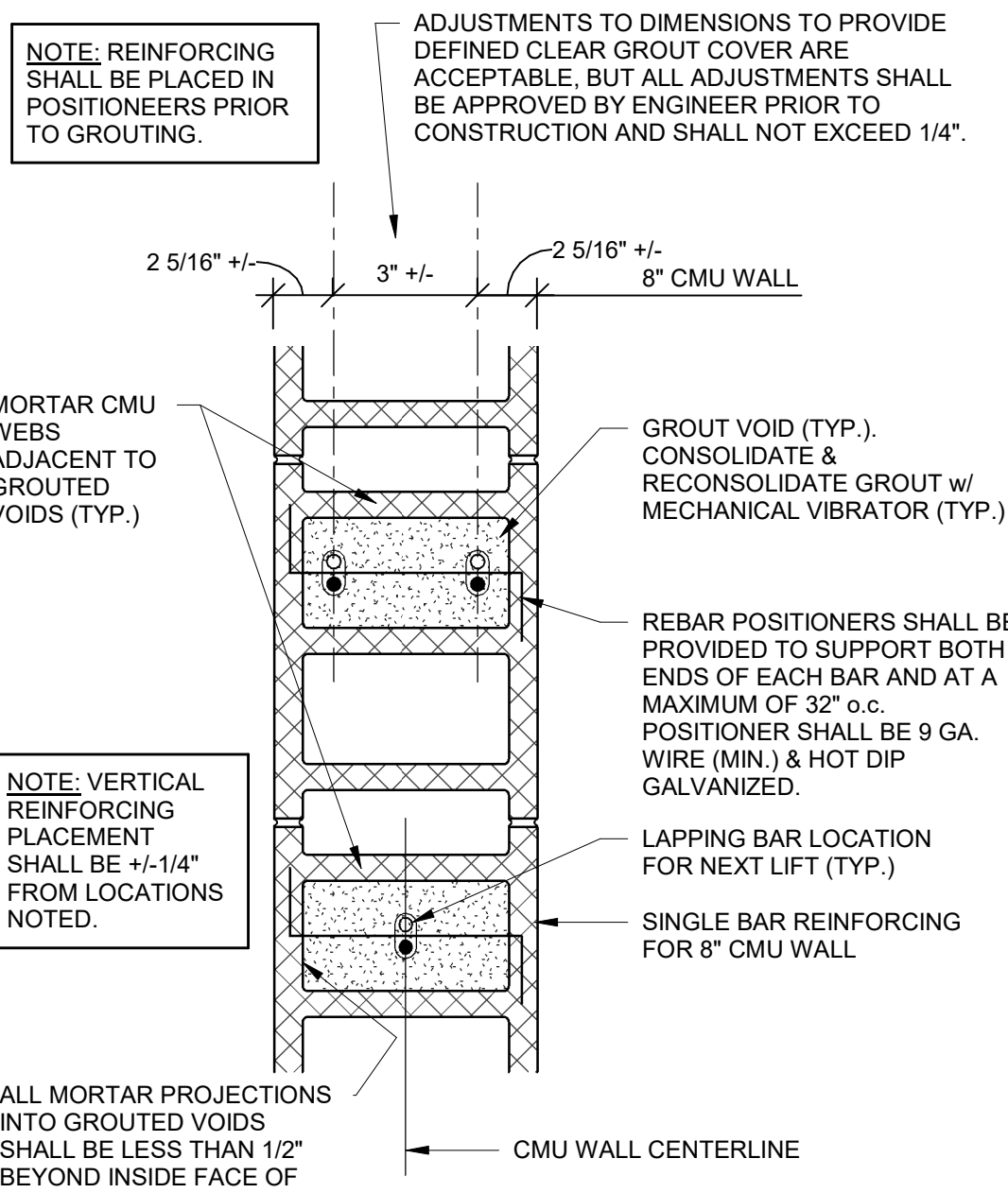
3/4" = 1'-0"



TYPICAL LINTELS AT ALL CMU WALLS (U.N.O.)

C SECTION

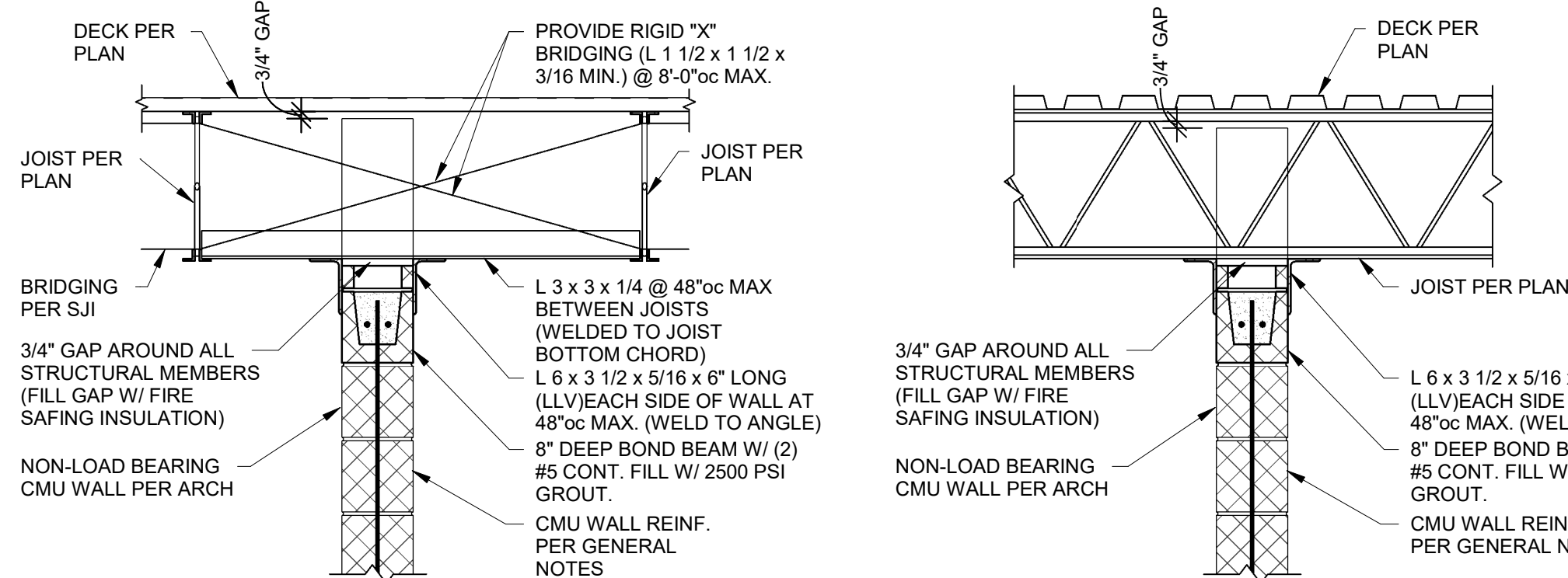
1 1/2" = 1'-0"



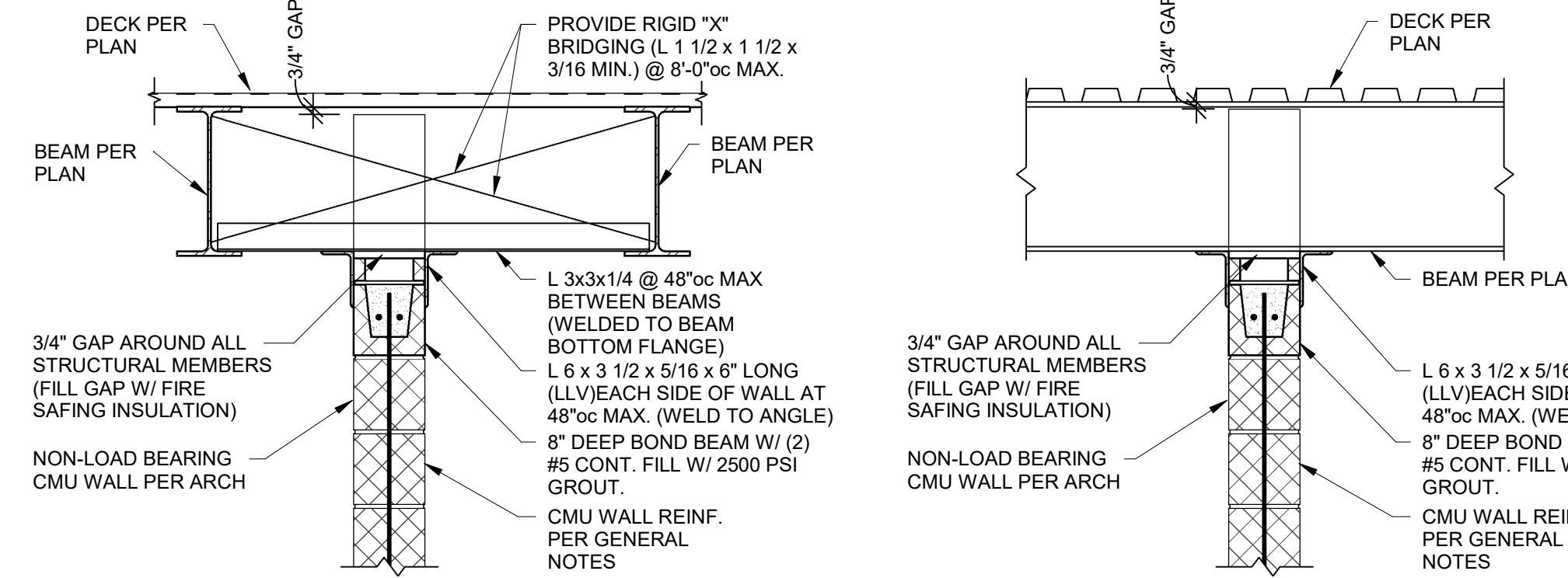
TYPICAL REBAR POSITIONING DETAIL

B SECTION

1 1/2" = 1'-0"



TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)



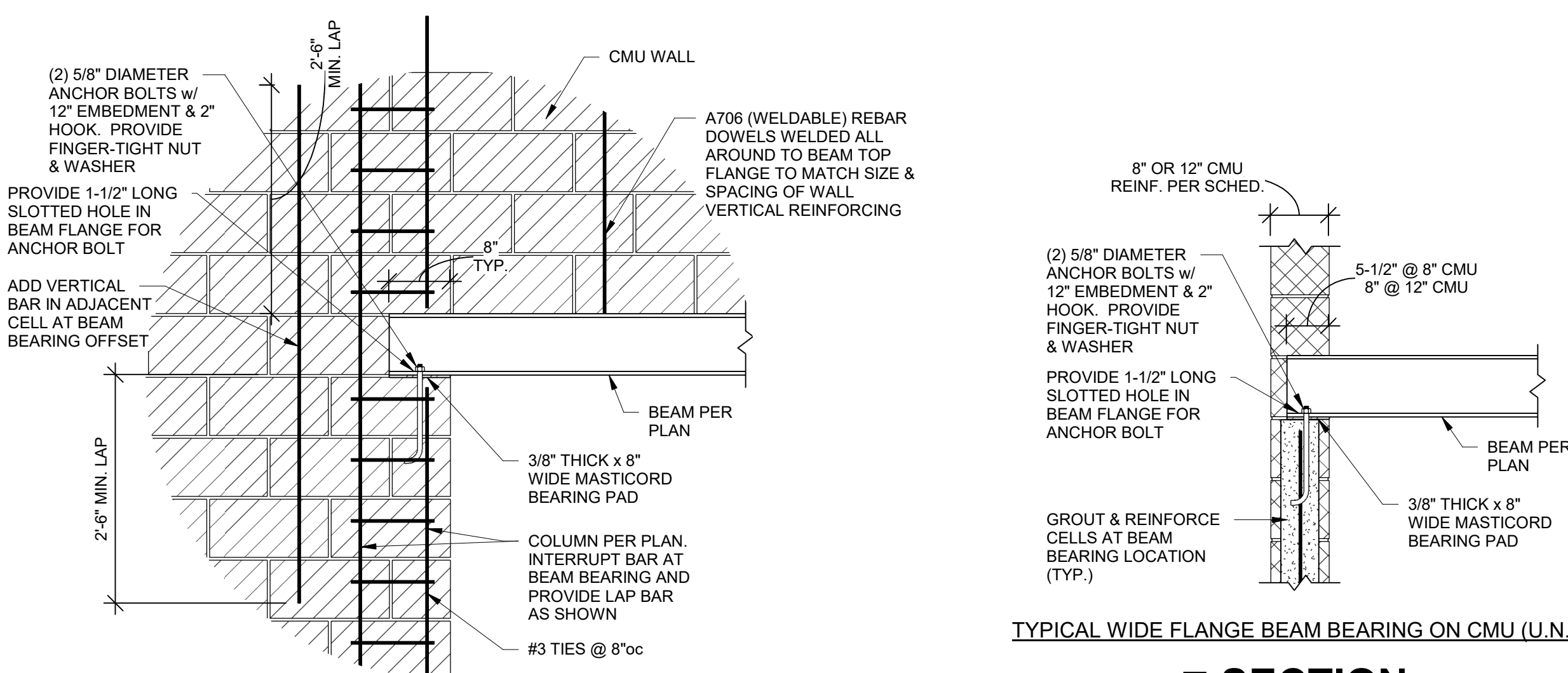
TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

2 SECTION

3/4" = 1'-0"

1 SECTION

3/4" = 1'-0"



TYPICAL STEEL LINTEL DETAIL AT CMU WALL

5 SECTION

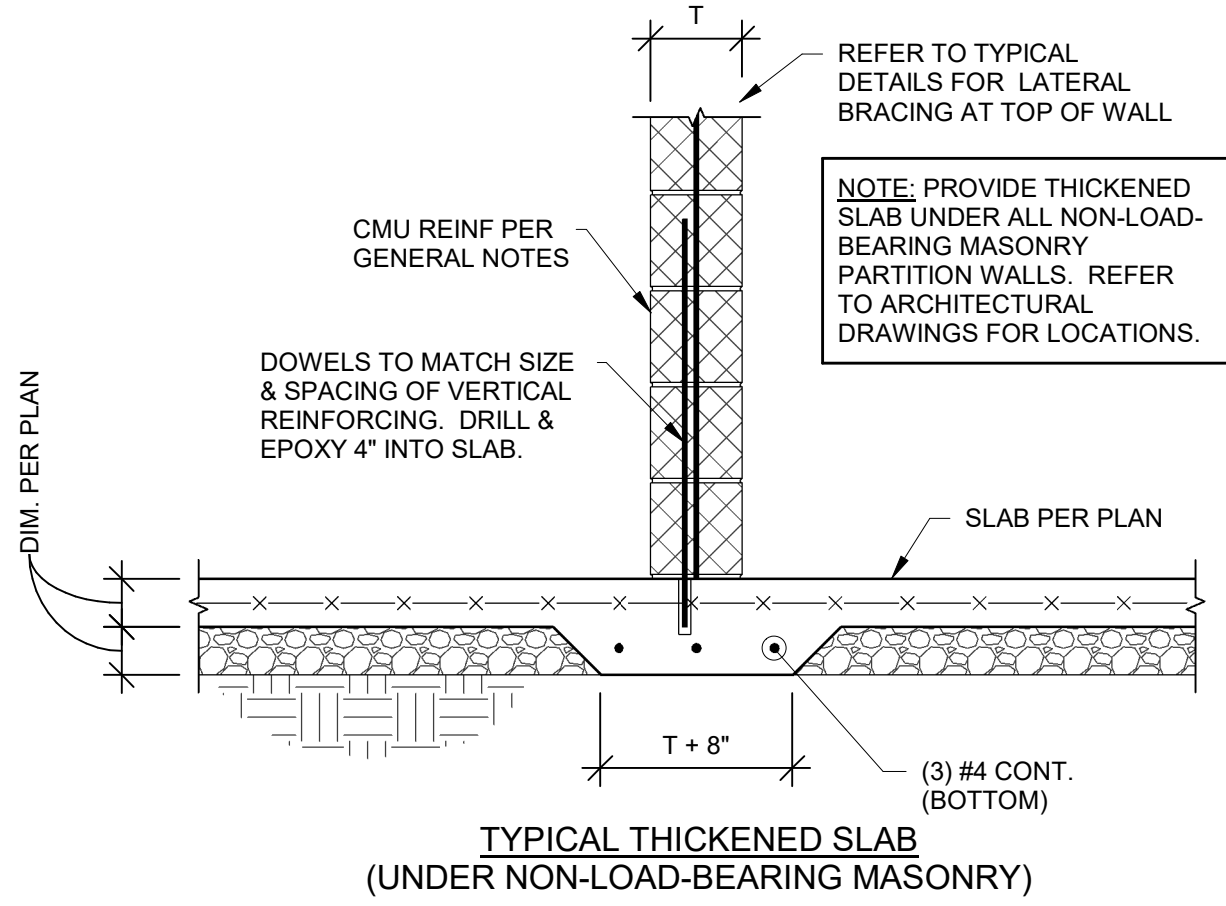
3/4" = 1'-0"

4 SECTION

3/4" = 1'-0"

3 SECTION

3/4" = 1'-0"



A CMU WALL ELEVATION

1 1/2" = 1'-0"

LEGEND:

- 1 FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).
- 2 LINTEL REINFORCING PER SECTION C. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
- 3 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
- 4 FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

GENERAL CRITERIA: (SECTION A CONTINUED):

1. VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
2. CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
3. VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE. FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

MASONRY VERTICAL REINFORCING SCHEDULE FOR LOAD BEARING MASONRY (CMU) WALLS			
WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUTED CELLS)	SPACING
8"	ALL 8" WALLS (U.N.O.)	1-#5	32"oc
12"	ALL 12" WALLS (U.N.O.)	PER SECTIONS	
NOTES:			
1. IN ADDITION TO SPACING SHOWN IN SCHEDULE, VERTICAL REINFORCING SHALL BE PROVIDED IN GROUTED CELLS AT THE FOLLOWING LOCATIONS			
A) IN THE FIRST 2 CELLS ADJACENT TO EACH OPENING			
B) IN THE END CELLS ON EACH SIDE OF VERTICAL CONTROL JOINTS			
C) IN THE END CELLS OF EACH LENGTH OF WALL			
D) AT EACH CORNER OF WALLS			
E) UNDER BEAM BEARING PER 5/W-S002			
2. IN 12" CMU, ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.			

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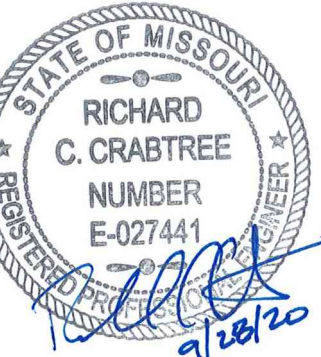
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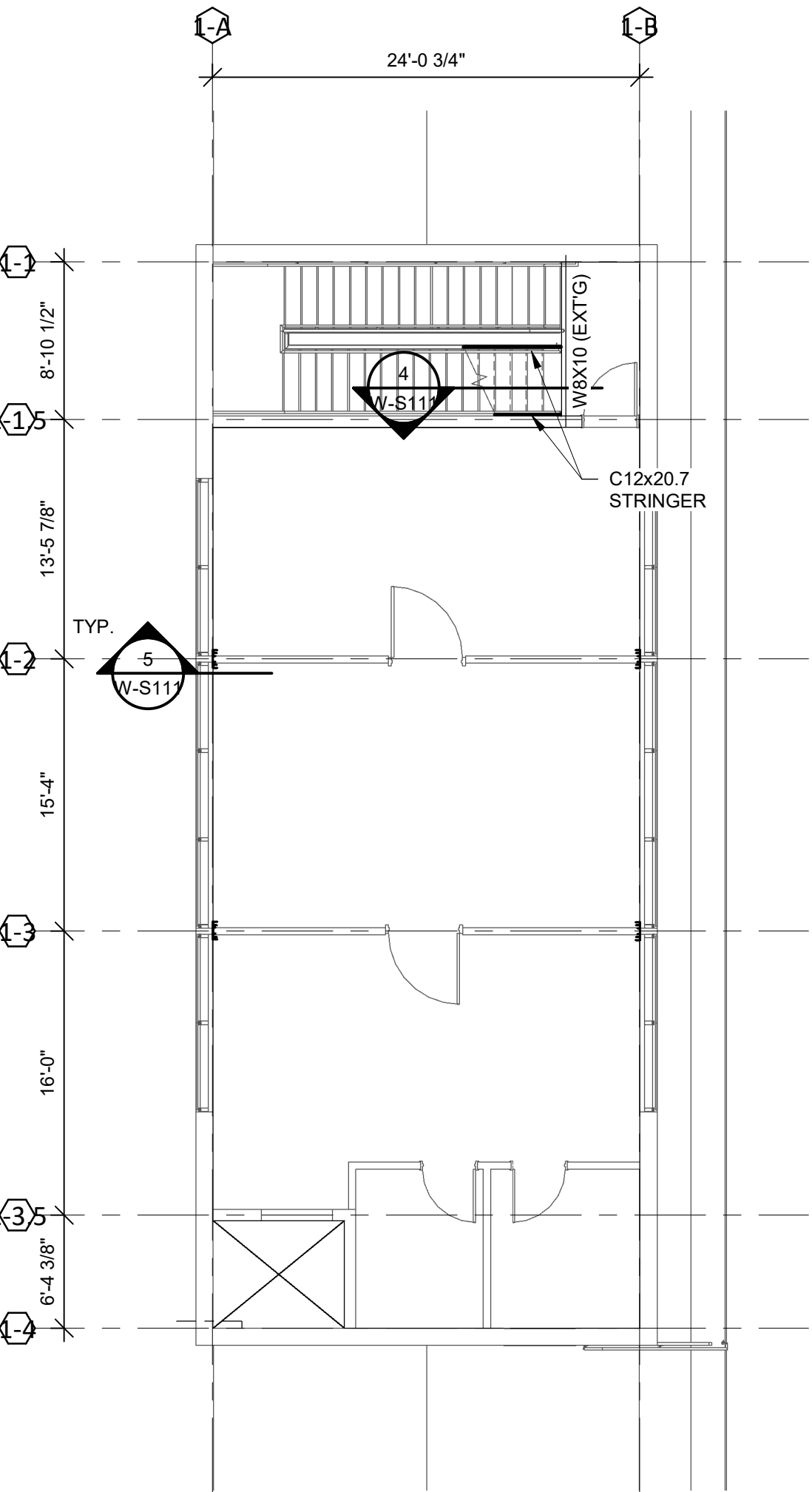
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Press Box Plans

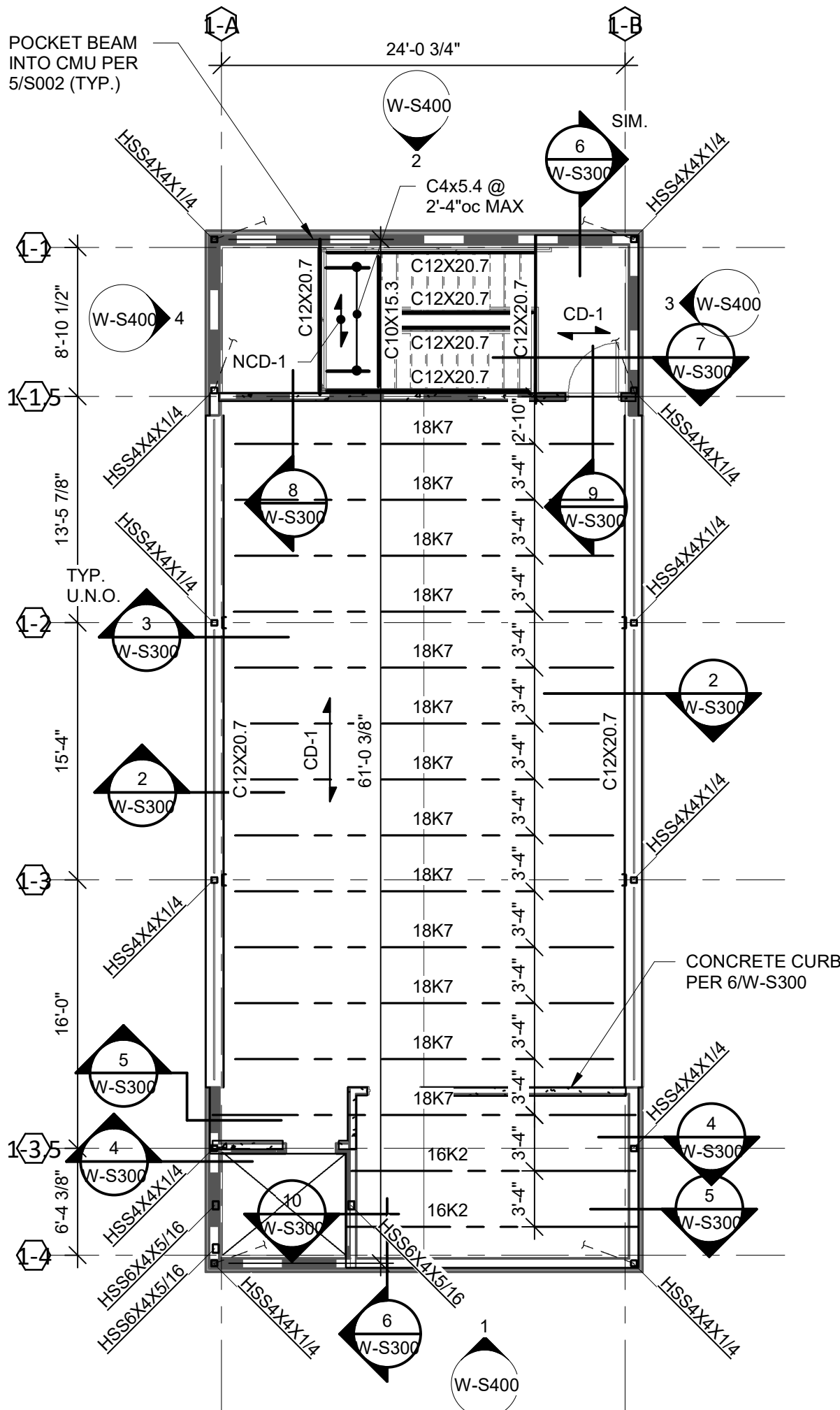
W-S111

BID SET



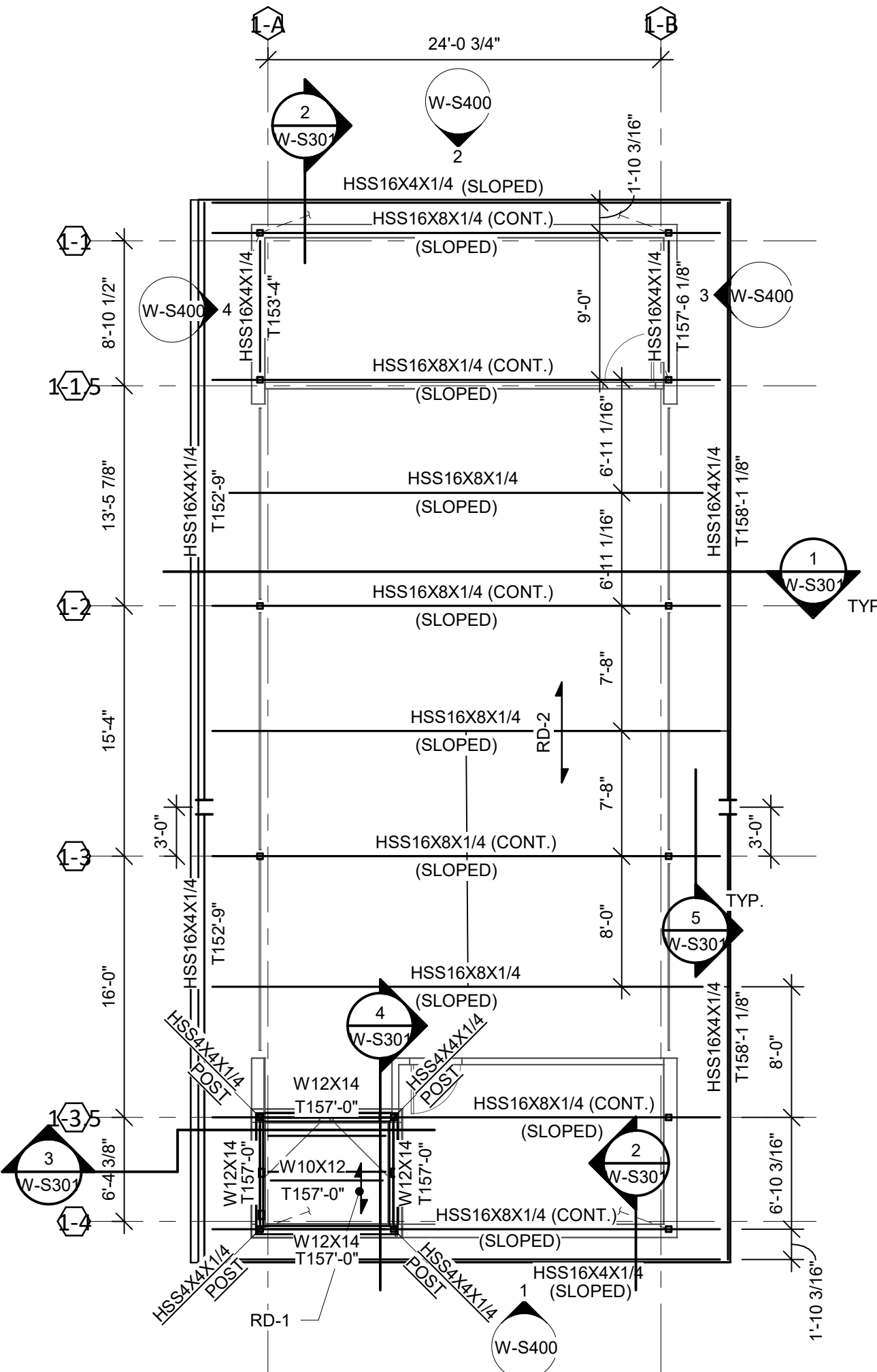
1 Level 2 Framing Plan - Home Press Box

1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. BG-1 INDICATES GALV. BAR GRATING W/ 1/2"x3/16" BEARING BARS @ 1'-3/16"oc AND CROSS BARS @ 4"oc.



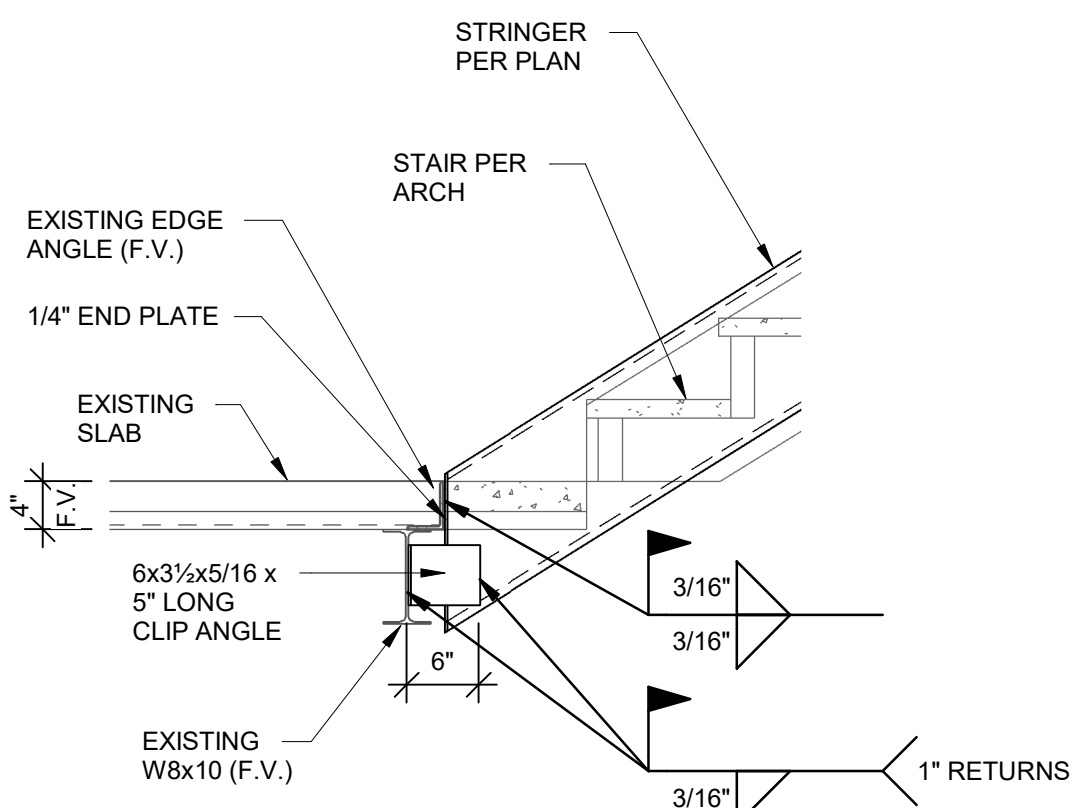
2 Level 3 Framing Plan - Home Press Box

1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. CD-1 INDICATES 2 1/2" (MIN.) CONC. SLAB ON 1 1/2"x22ga GALV. COMPOSITE METAL DECK (4" MIN. TOTAL THICKNESS). REINF. SLAB W/ 6x6-616 WWF. PROVIDE 5/8" PUDDLE WELDS ON 36/4 PATTERN W/ WELDED SIDELAP FASTENERS @ 36"oc (ALLOWABLE DIAPHRAGM SHEAR = 1775 PLF). T/SLAB EL VARIES PER ARCH.
3. NCD-1 INDICATES 2-7/16" CONC. SLAB ON 9/16"x26ga METAL FORM DECK (3" TOTAL THICKNESS). REINF. SLAB W/ 6x6-616 WWF. T/SLAB EL PER ARCH.

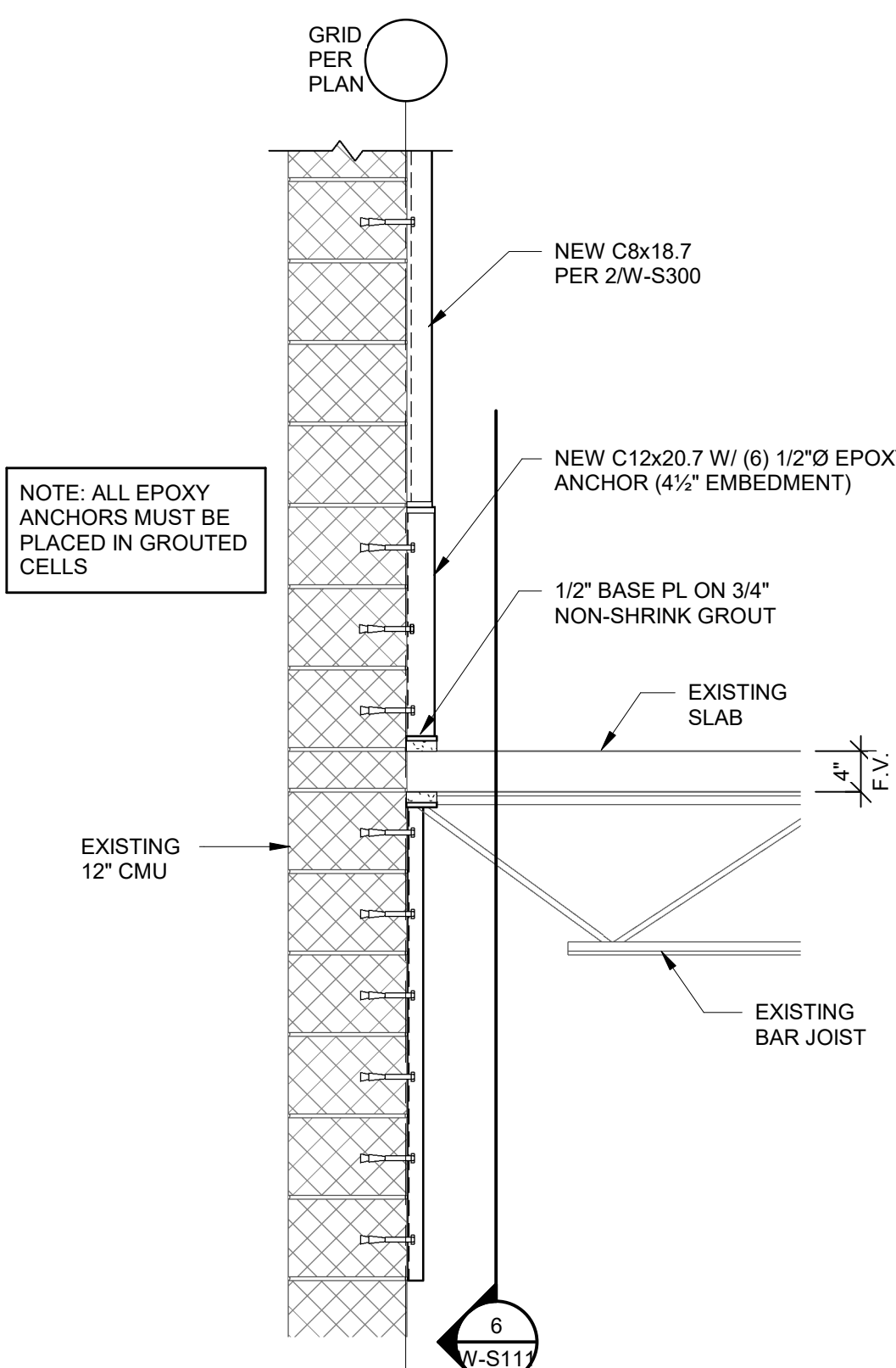


3 Roof Framing Plan - Home Press Box

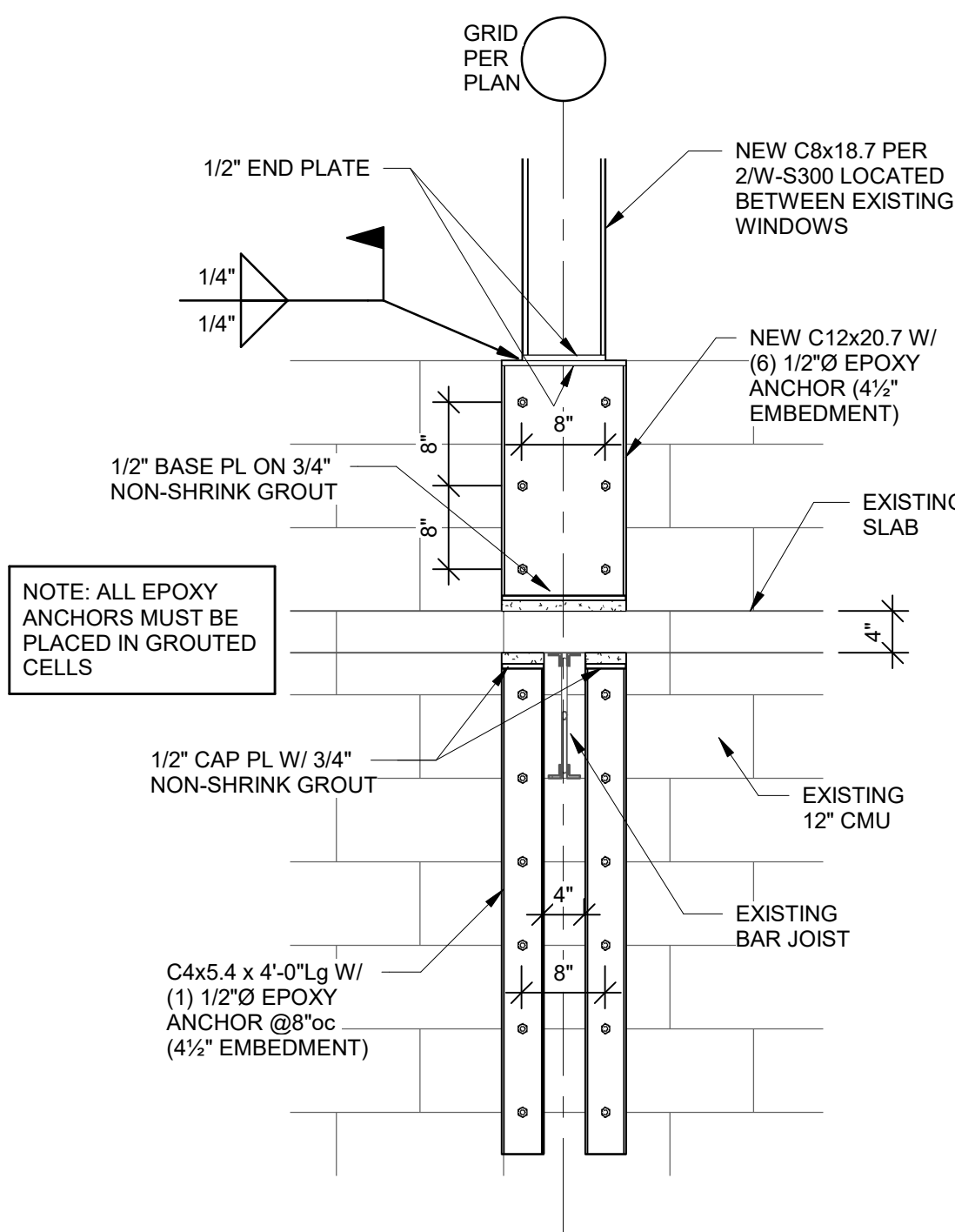
1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-1 INDICATES 1 1/2"x22ga GALV. WIDE RIB METAL ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 36/7 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @ 36"oc (ALLOWABLE DIAPHRAGM SHEAR = 328 PLF).
3. RD-2 INDICATES 2"x20ga GALV. EPICORE ER2R ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 24/4 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @ 36"oc (ALLOWABLE DIAPHRAGM SHEAR = 244 PLF).



4 SECTION
3/4" = 1'-0"

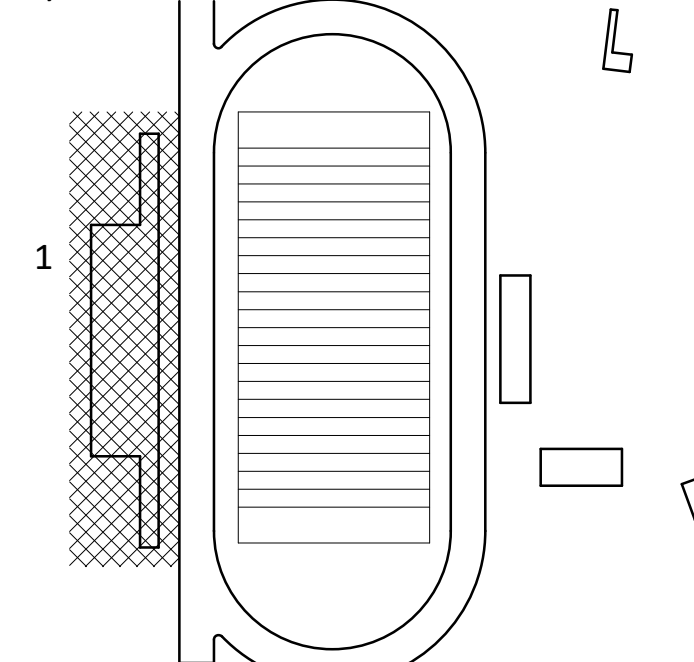


5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

Key Plan:



Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 6408

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

1 Foundation Plan - Visitor Restrooms/Concession

1/8" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.

2 Roof Framing Plan - Visitor Restrooms/Concession

1/8" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-1 INDICATES 1½"x22ga GALV. WIDE RIB METAL ROOF DECK. RD-1 INDICATES 1½"x22ga GALV. WIDE RIB METAL ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 36/7 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 320 PLF).
3. RD-2 INDICATES 2"x20ga GALV. EPICORE ER2R ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 24/4 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 244 PLF).
4. JOIST BRG ELEV. = 126'-0".
5. ALL EXPOSED STEEL SHALL BE GALVANIZED.

TYPICAL SAW JOINT
NOTED "SJ" ON PLAN

3 SECTION
3/4" = 1'-0"

TYPICAL CONSTRUCTION JOINT
NOTED "CJ" ON PLAN

4 SECTION
3/4" = 1'-0"

5 SECTION
3/4" = 1'-0"

6 SECTION
3/4" = 1'-0"

7 SECTION
3/4" = 1'-0"

8 SECTION
3/4" = 1'-0"

9 SECTION
3/4" = 1'-0"

10 SECTION
3/4" = 1'-0"

11 SECTION
3/4" = 1'-0"

Key Plan:

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Jane Doe Date: MM/DD/YYYY
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REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Visitor
Restrooms/Concession
Plans

W-S121

BID SET

Lee's Summit R7 District
Athletics Facilities

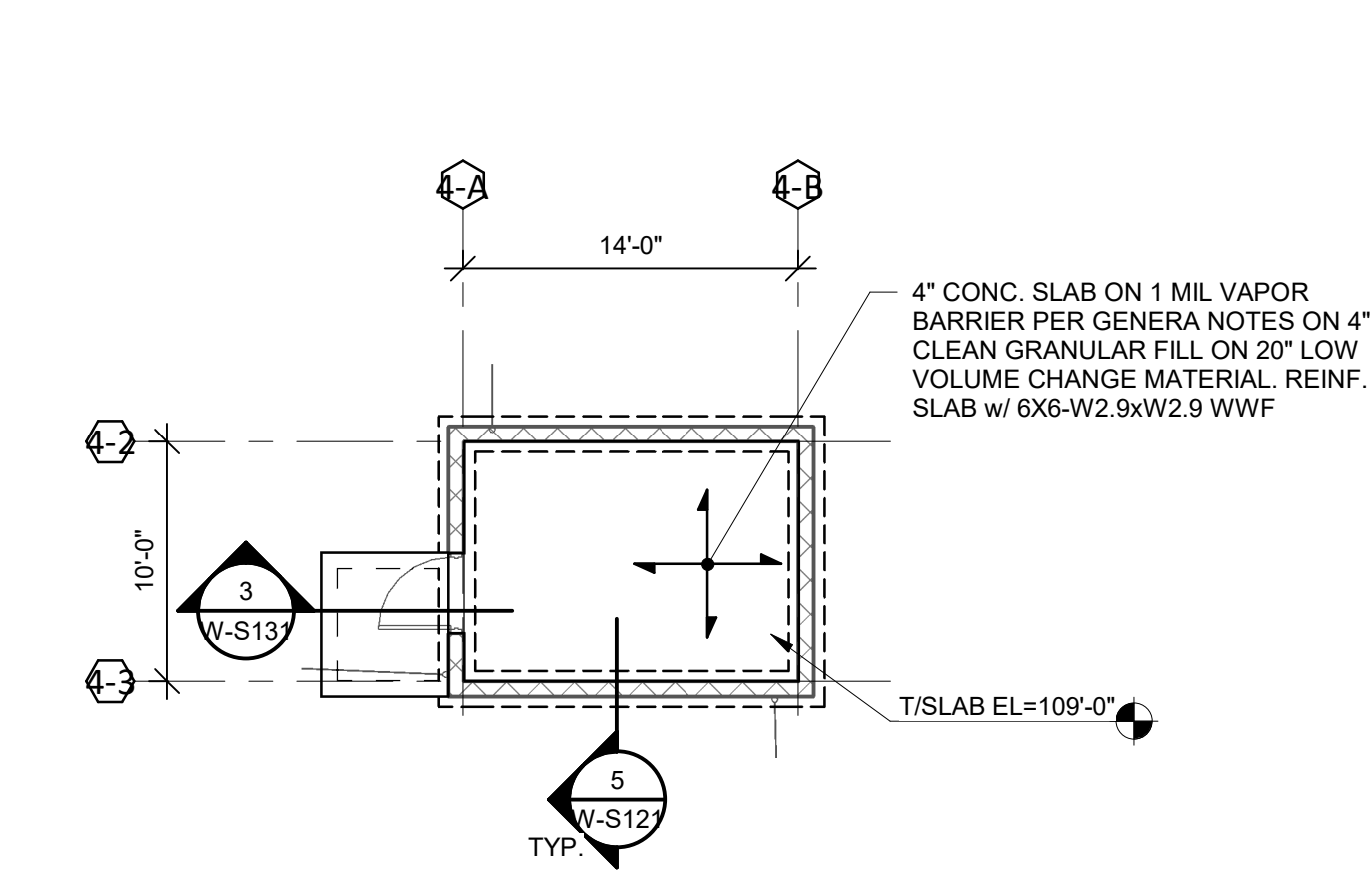
Lee's Summit West High School
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Lee's Summit, MO 64082

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www.goulddevans.com
structural engineer:
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4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

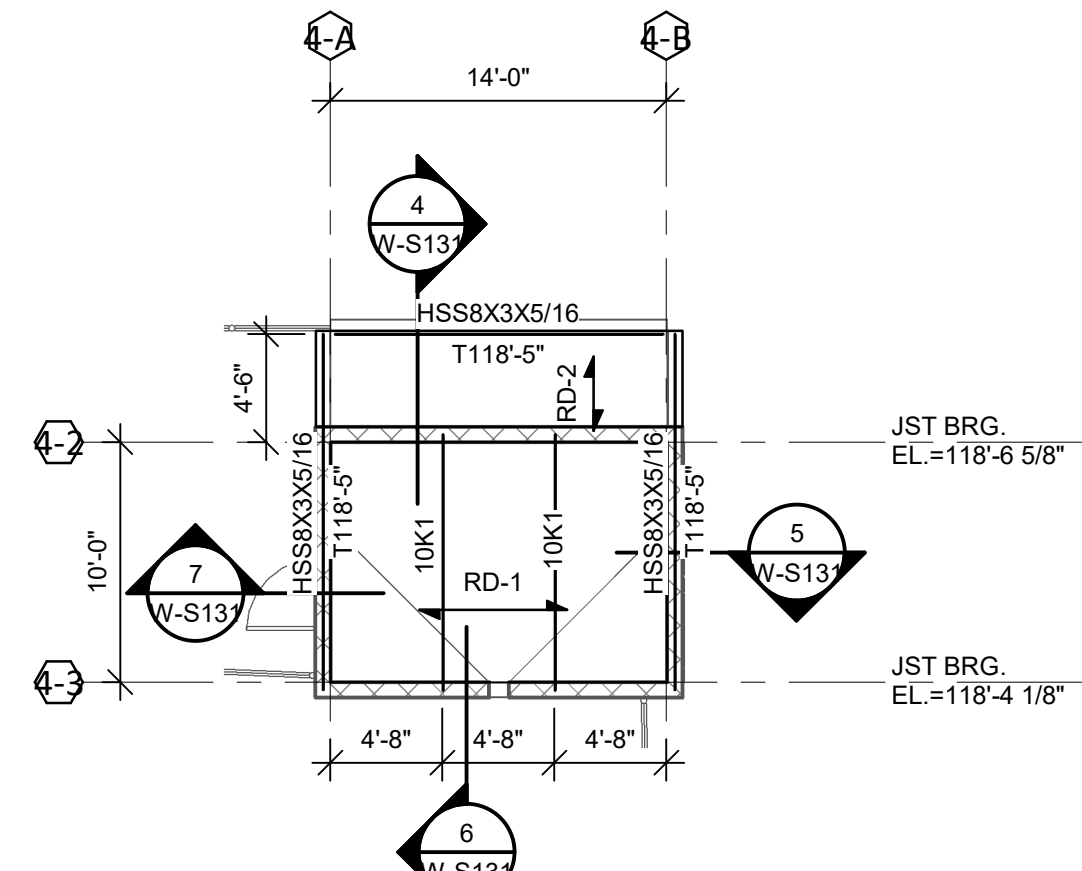
civil engineer:
Kaw Valley Engineering
14700 West 131st Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



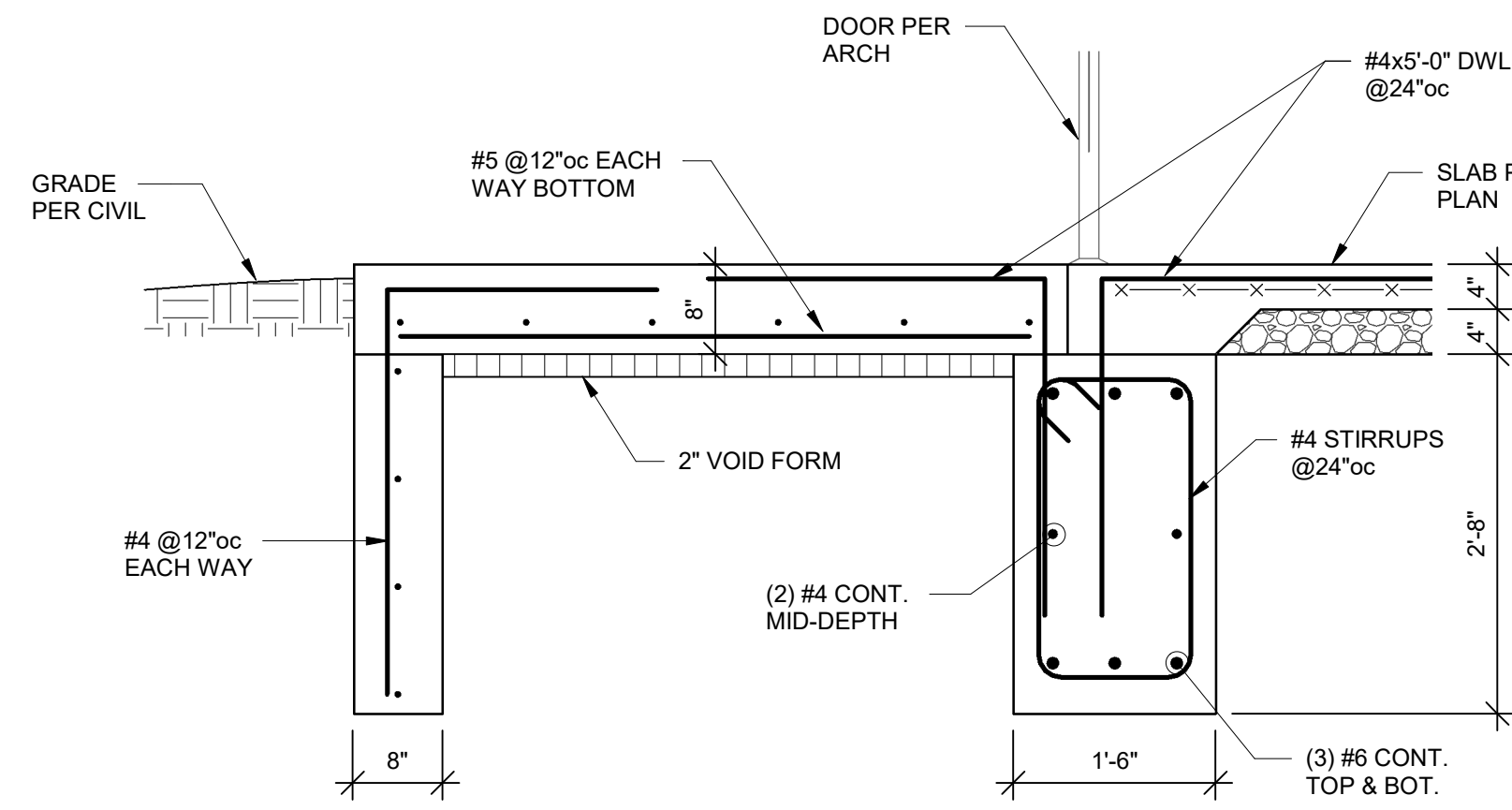
1 Foundation Plan -North Ticket Booth

1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.



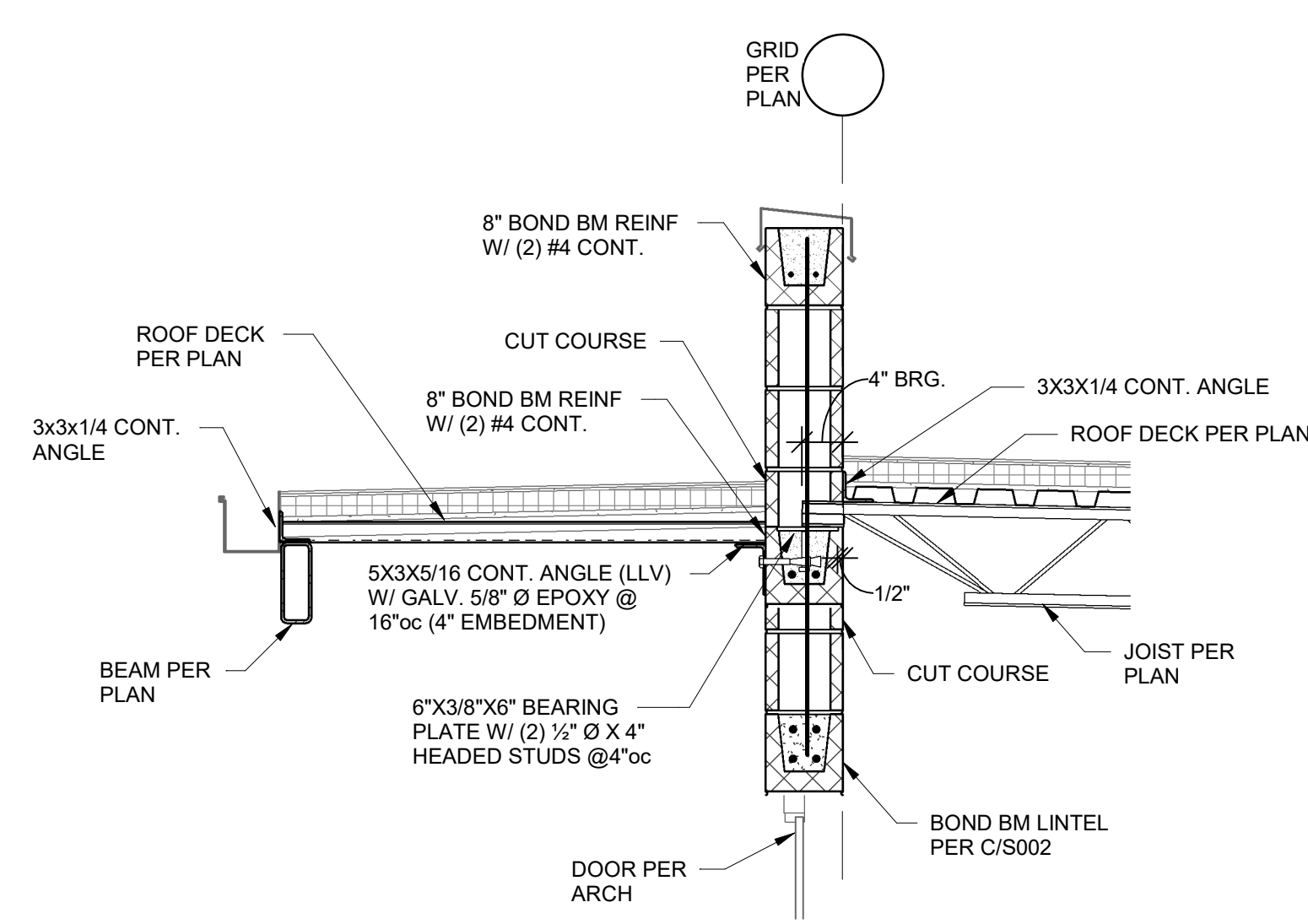
2 Roof Framing Plan - North Ticket Booth

1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-1 INDICATES 1 1/2"x22ga GALV. WIDE RIB METAL ROOF DECK. RD-1 INDICATES 1 1/2"x22ga GALV. WIDE RIB METAL ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 36/7 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 328 PLF).
3. RD-2 INDICATES 2"x20ga GALV. EPICORE EPOXY ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 24/4 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 244 PLF).



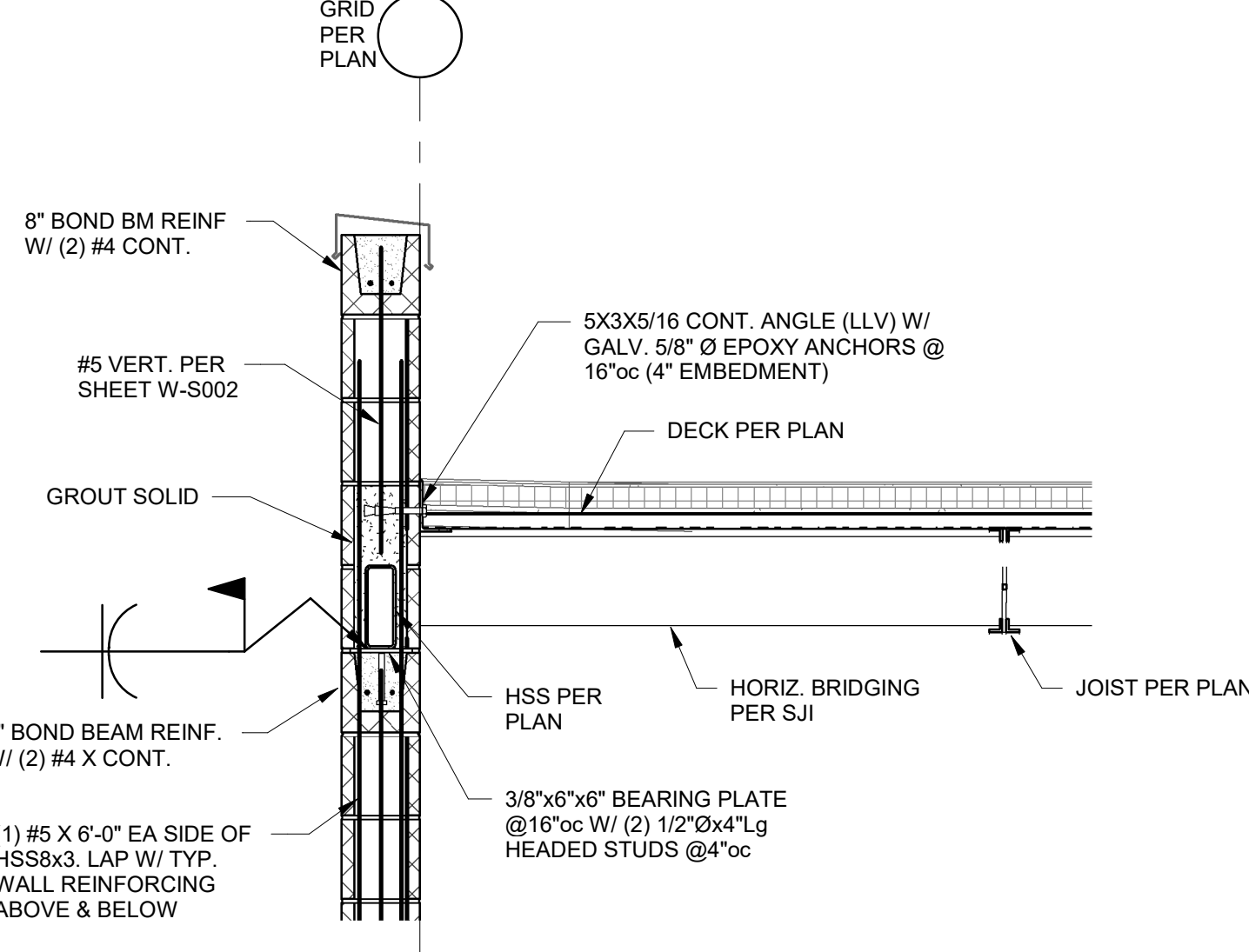
3 SECTION

3/4" = 1'-0"



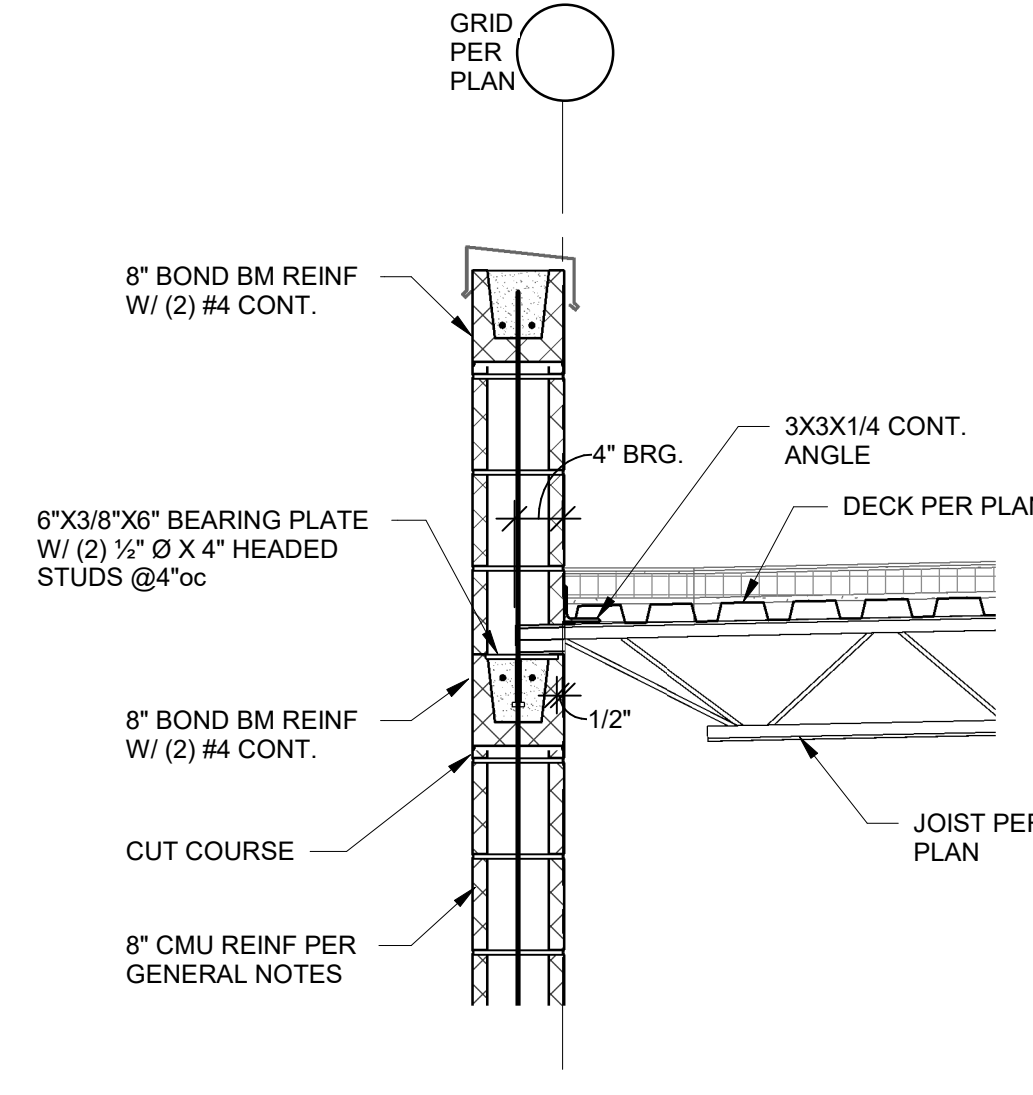
4 SECTION

3/4" = 1'-0"



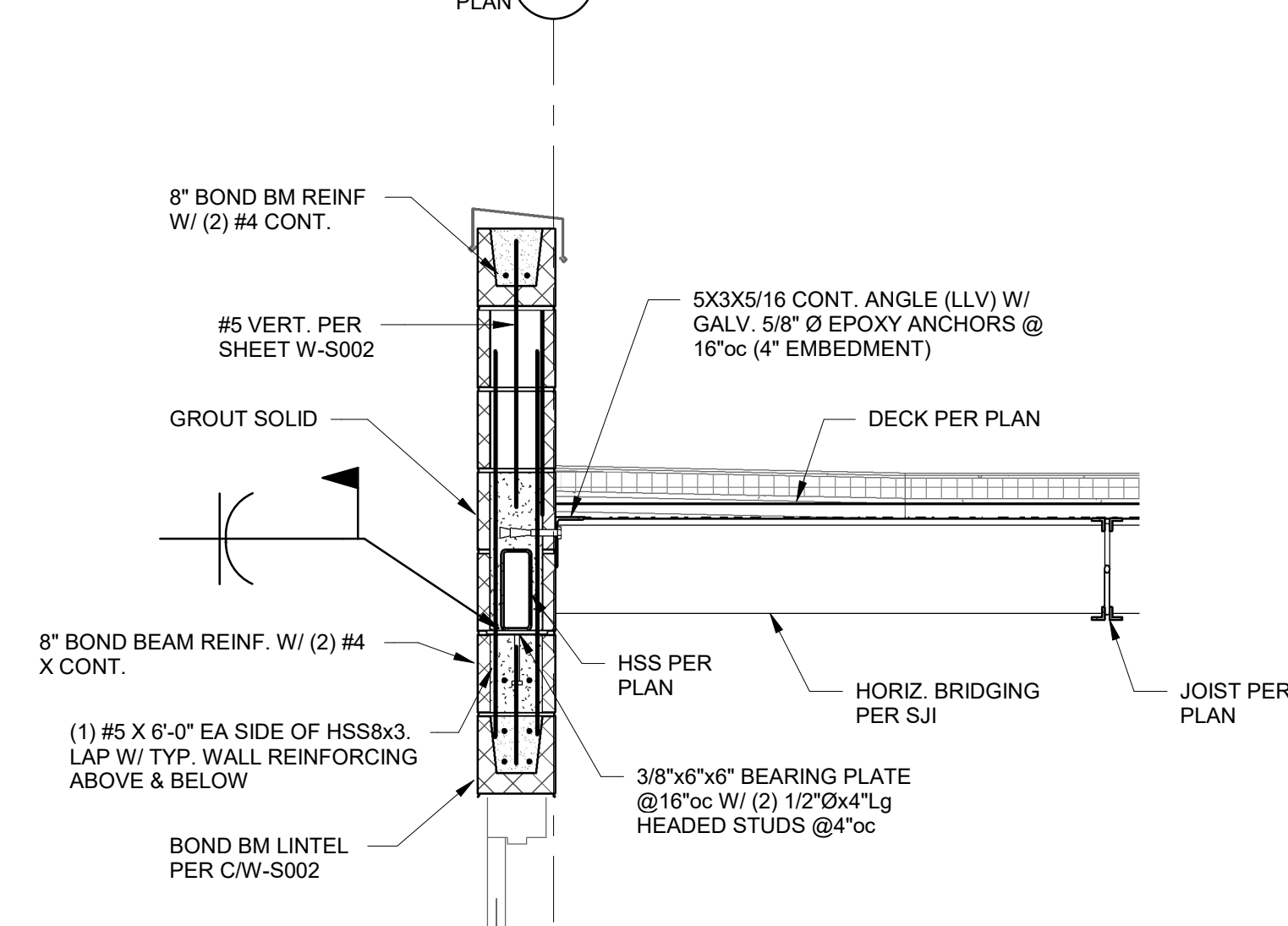
5 SECTION

3/4" = 1'-0"



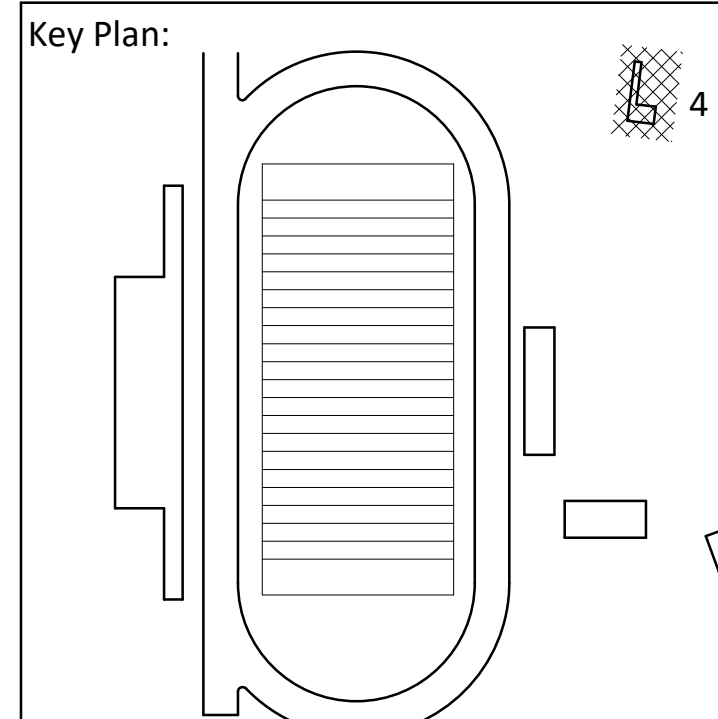
6 SECTION

3/4" = 1'-0"



7 SECTION

3/4" = 1'-0"



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Jane Doe
Date: MM/DD/YYYY
License No. A-0000000

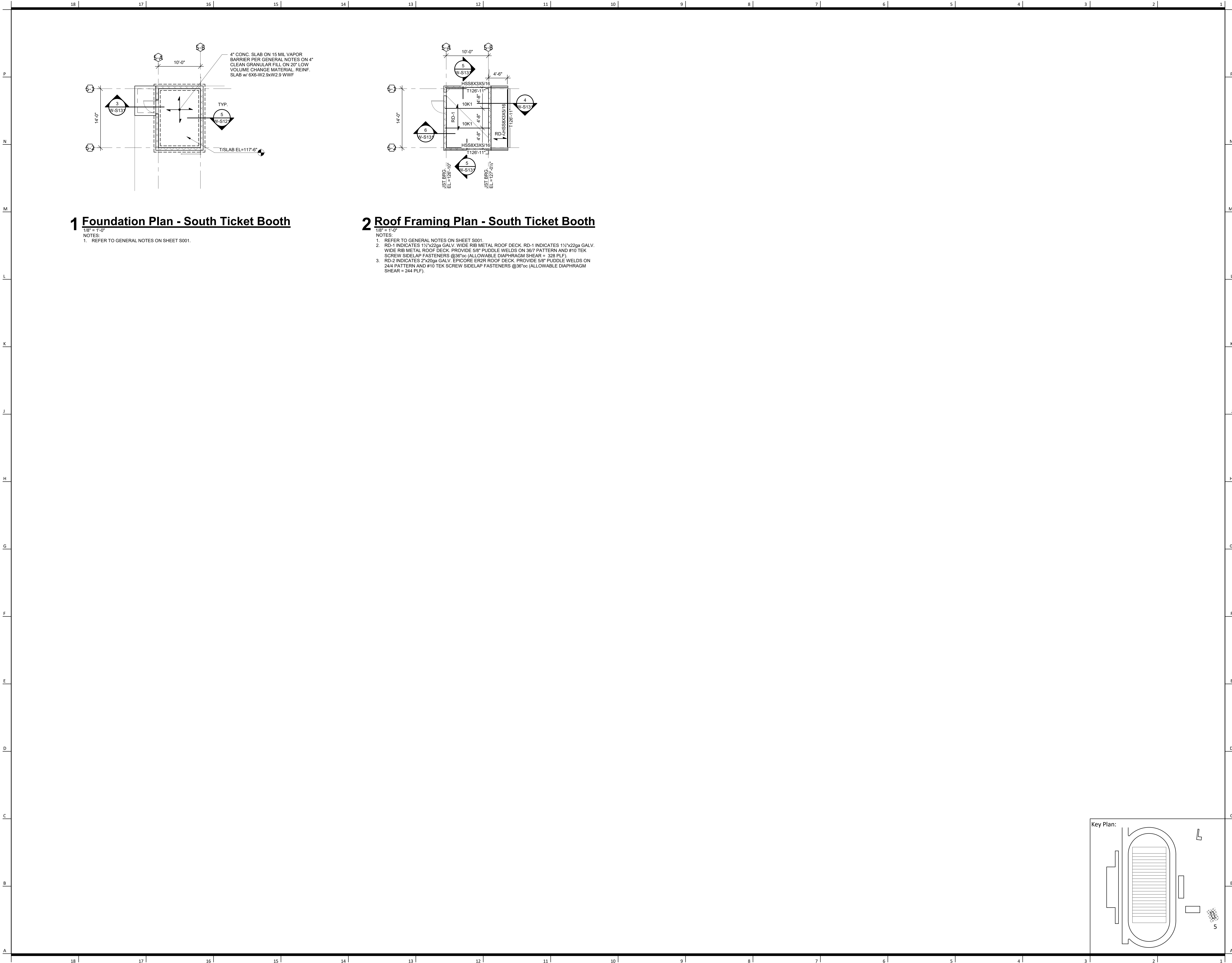
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

North Ticket Booth
Plans

W-S131

BID SET



Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 6408

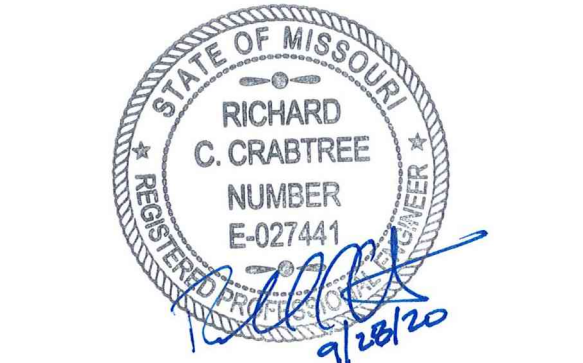
architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
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913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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Architect License No. A-00000000

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

South Ticket Booth
Plans

W-S141

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 6408

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
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civil engineer:
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Architect License No. A-00000000

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Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections

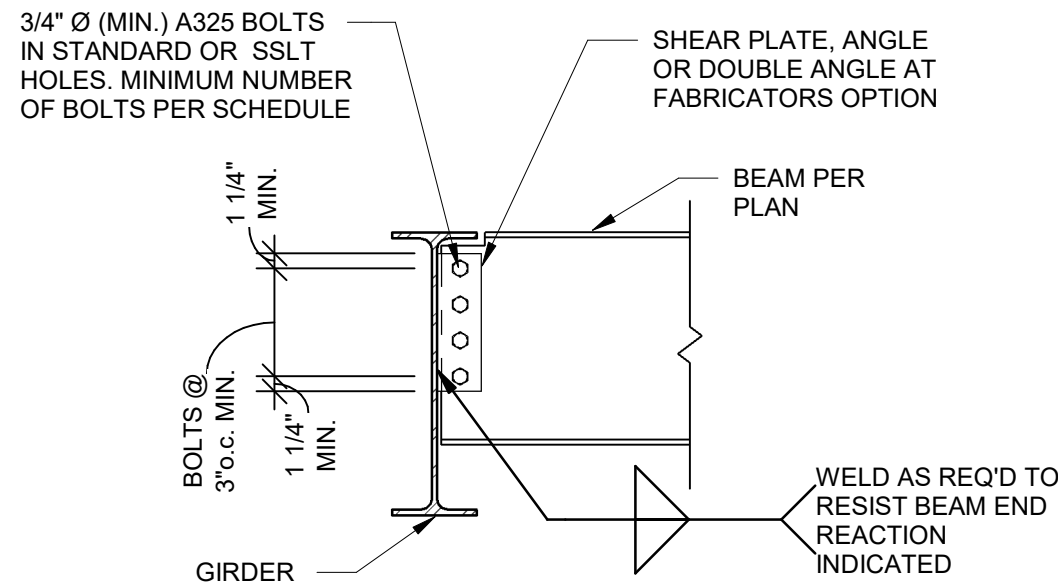
W-S300

BID SET

STEEL CONNECTION NOTES:

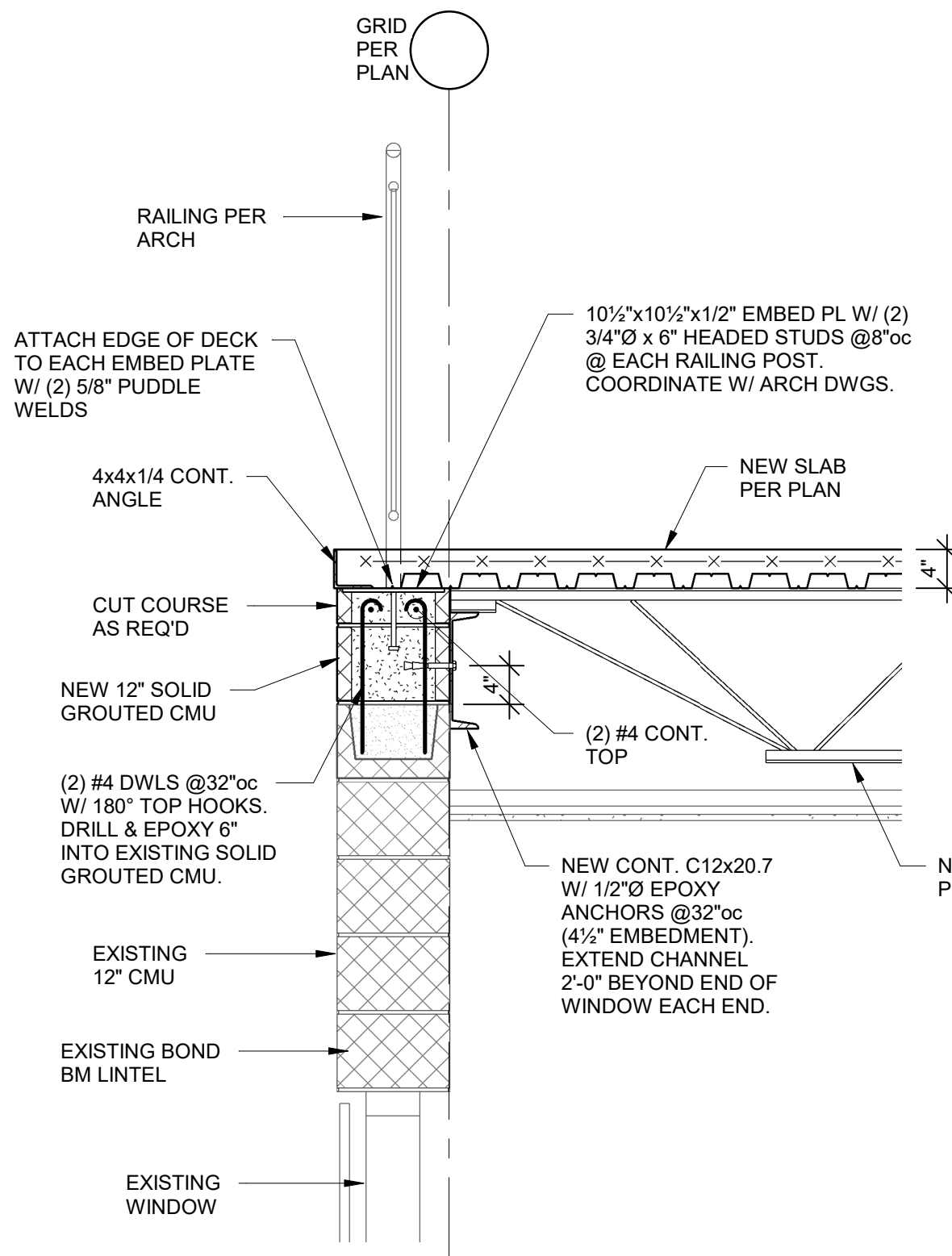
1. REFER TO GENERAL NOTES ON SHEET S001.
2. CONNECTIONS SHOWN IN THESE DETAILS ARE MINIMUM REQUIREMENTS.
3. FABRICATOR SHALL BE RESPONSIBLE FOR THE ENGINEERING, DESIGNING, AND DETAILING OF EACH CONNECTION FOR LOADS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STRUCTURAL GENERAL NOTES.
4. SUGGESTED CONNECTION DETAILS ARE SHOWN. FINAL CONNECTION CONFIGURATION AND DESIGN SHALL BE COMPLETED BY THE CONNECTION ENGINEER. CONNECTION DESIGN SHALL INCLUDE COLUMN OR BEAM CONTINUITY PLATES, WEB STIFFENERS, AND/OR DOUBLER PLATES AS REQUIRED FOR THE FORCES INDICATED.
5. FABRICATOR MAY OPT TO USE OTHER AISC APPROVED CONNECTIONS IN LIEU OF THOSE SHOWN HEREIN TO MEET END REACTION REQUIREMENTS (i.e. DOUBLE ANGLE CONNECTION).
6. CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD DETAILS SHOWN IN THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
7. ALL BOLTS SHALL BE 3/4" Ø ASTM A325 MINIMUM.
8. ALL BOLTS SHALL BE SPACED AT 3"x. MINIMUM.
9. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
10. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
11. BOLT SPACING AND EDGE DISTANCES SHALL BE ADJUSTED PER AISC MANUAL FOR BOLTS LARGER THAN 3/4" DIAMETER.
12. CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.
13. FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES. INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR PLATE CONNECTION W/ AN ADDITIONAL COLUMN OF BOLTS TO ACCOMMODATE COMBINED FORCES.
14. PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION LOAD REQUIREMENTS.
15. REFER TO ELEVATIONS ON SHEET S400 FOR BRACE FORCES. REFER TO PLANS FOR ADDITIONAL BEAM AXIAL FORCES. BRACE AND BEAM FORCES INDICATED ARE UNFACTORED (ASD) LOADS AND SHALL BE CONSIDERED CONCURRENT W/ BEAM SHEAR DESIGN FORCES LISTED IN THE BEAM SHEAR CONNECTION SCHEDULE.
16. COORDINATE BRACED FRAME CONNECTION W/ ARCHITECTURAL WALLS AS REQUIRED TO AVOID CONFLICT OR EXPOSURE OUTSIDE OF WALL OR FINISH.
17. ALL END REACTIONS INDICATED ARE UNFACTORED (ASD) LOADS.

BEAM SHEAR CONNECTION SCHEDULE		
BEAM SIZE	MINIMUM ROWS OF BOLTS	END REACTION (kips)(U.N.O.)
HSS8.W10	2	10 KIPS
W12.C12	2	15 KIPS
HSS16	3	15 KIPS

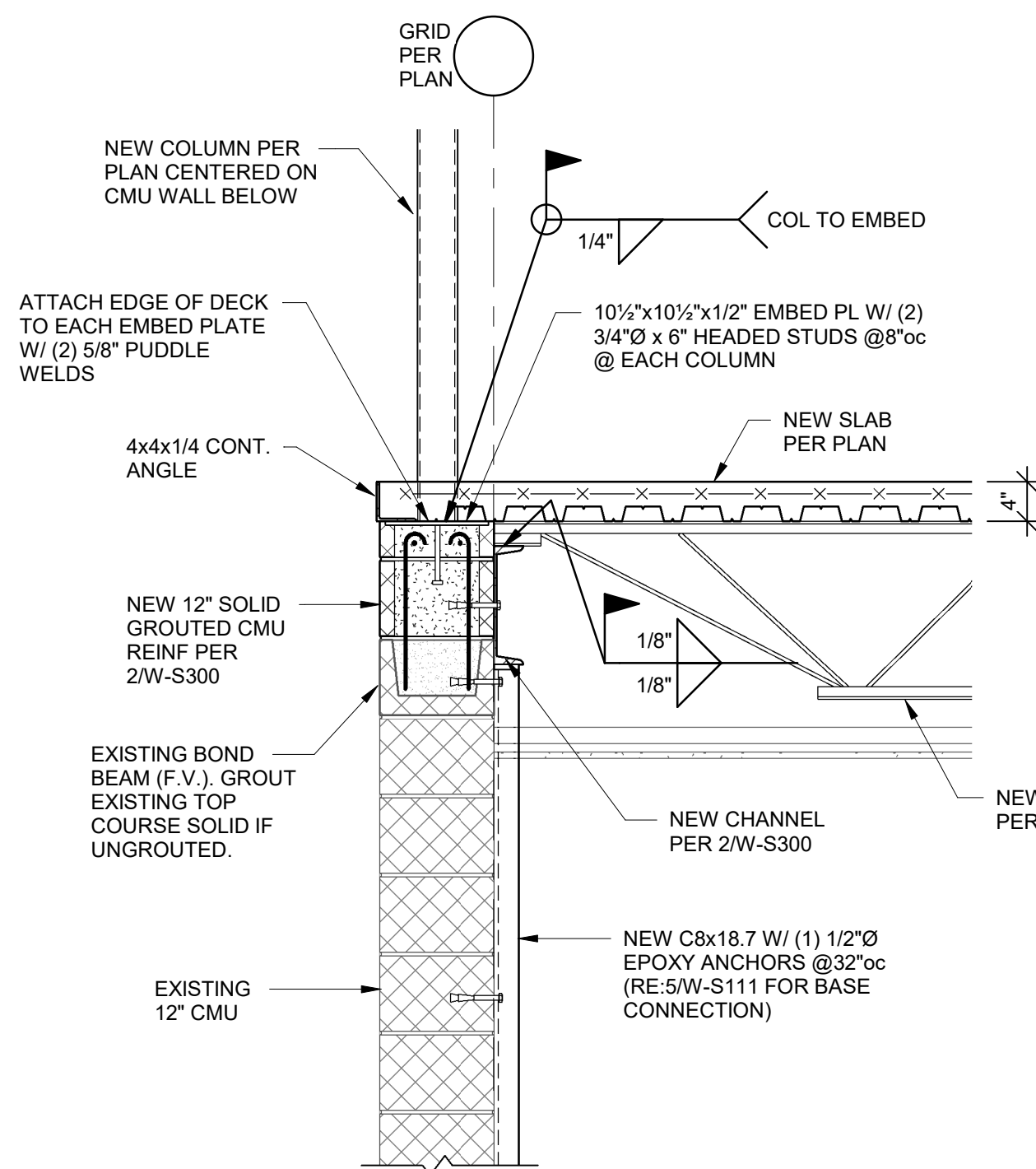


TYPICAL BEAM TO GIRDER CONNECTION

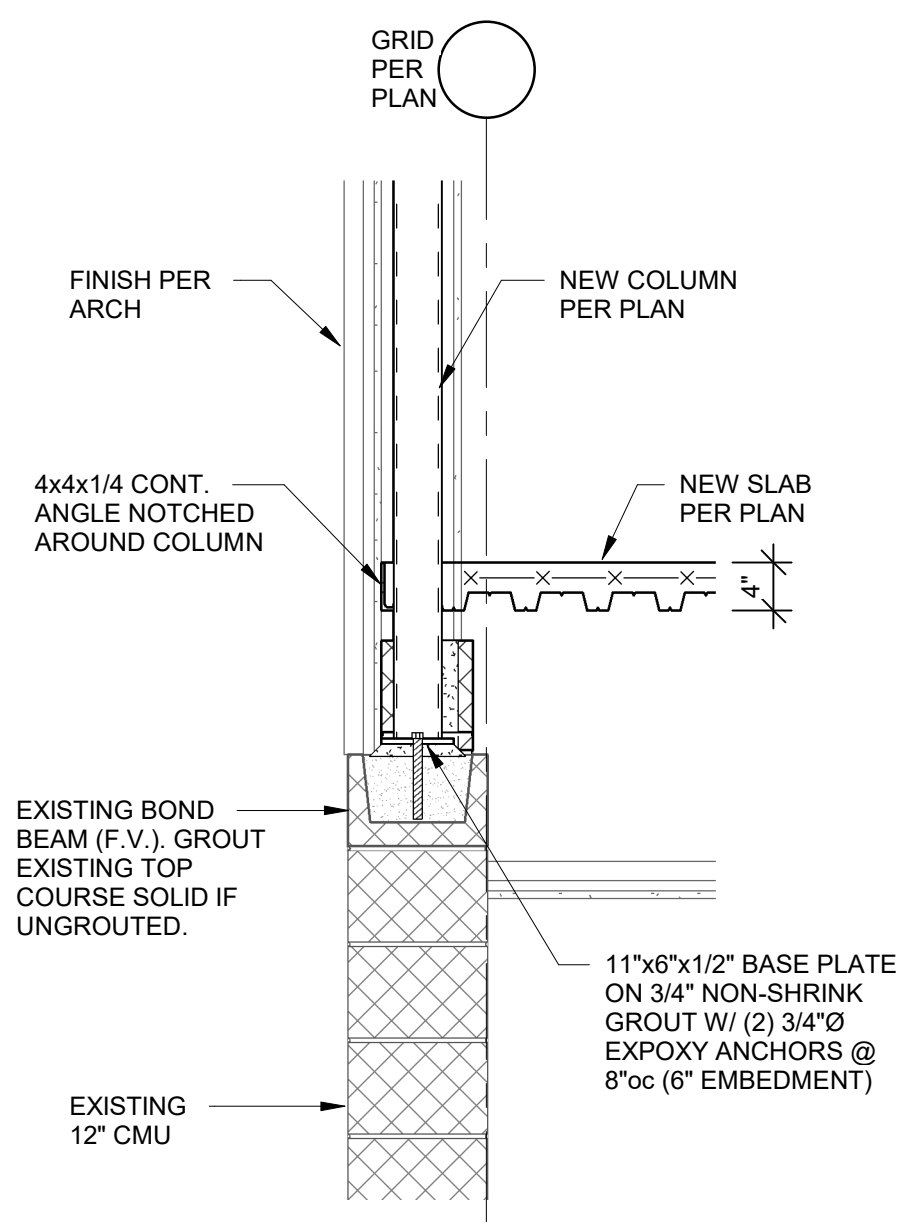
1 DETAIL
3/4" = 1'-0"



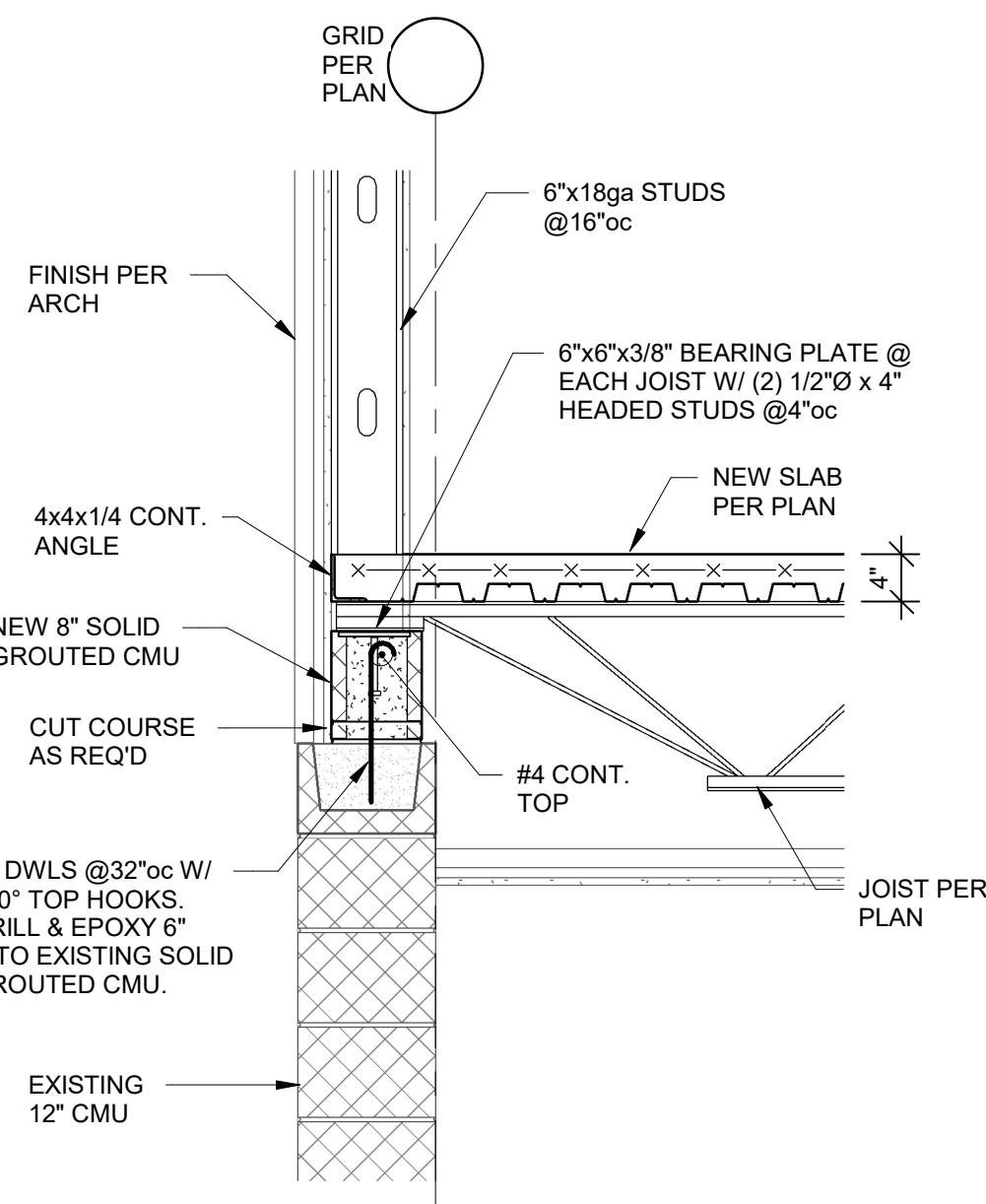
2 SECTION
3/4" = 1'-0"



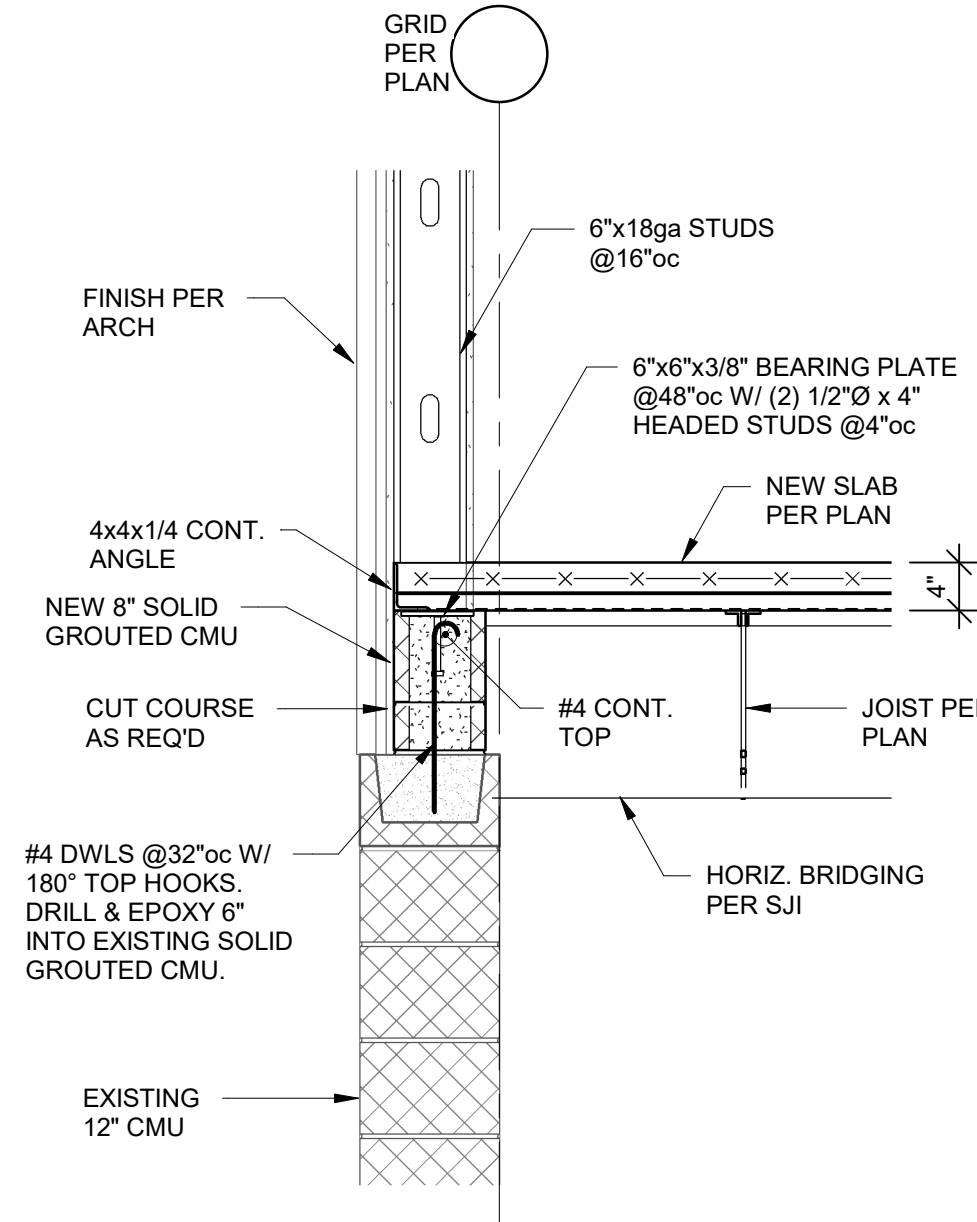
3 SECTION
3/4" = 1'-0"



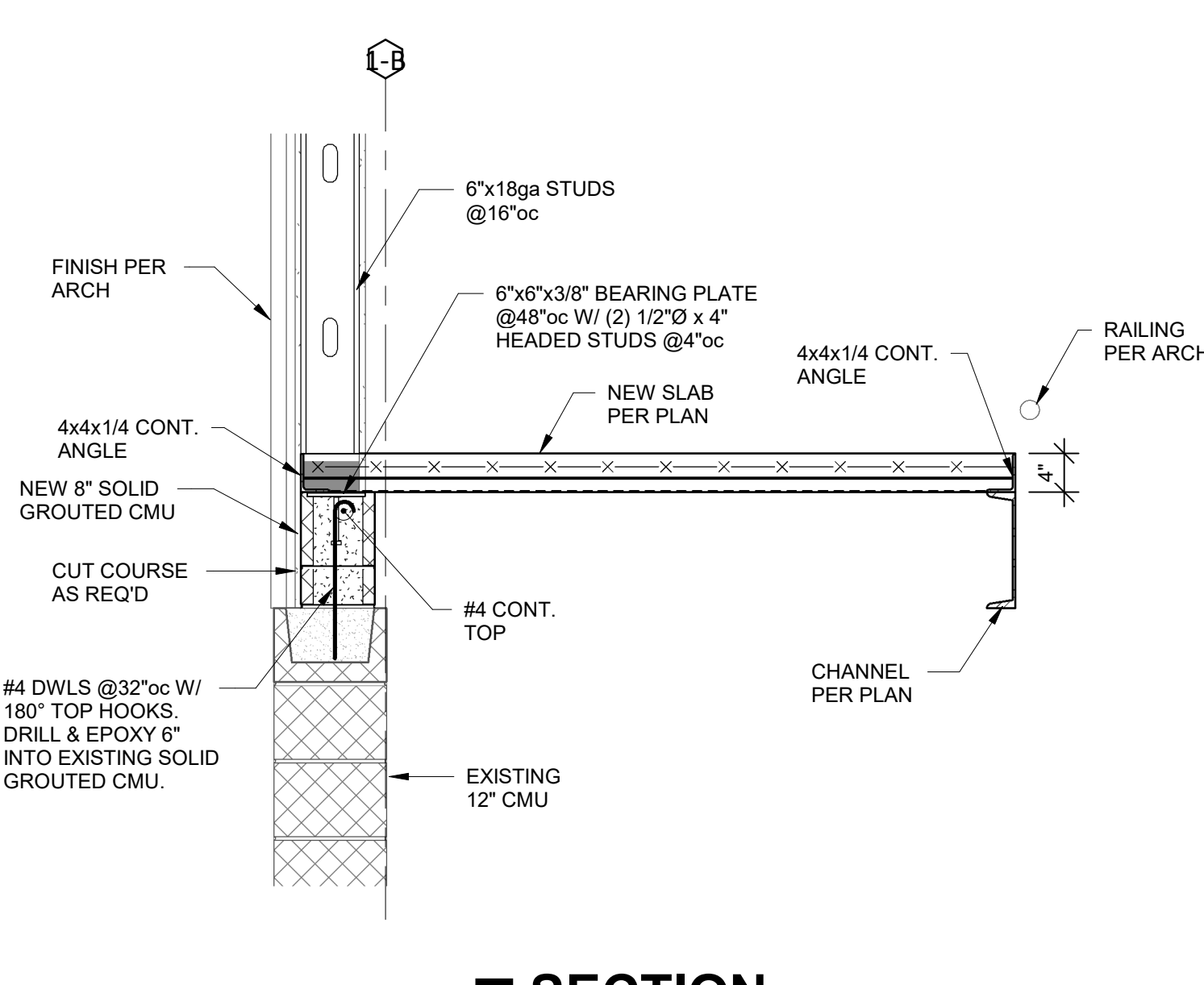
4 SECTION
3/4" = 1'-0"



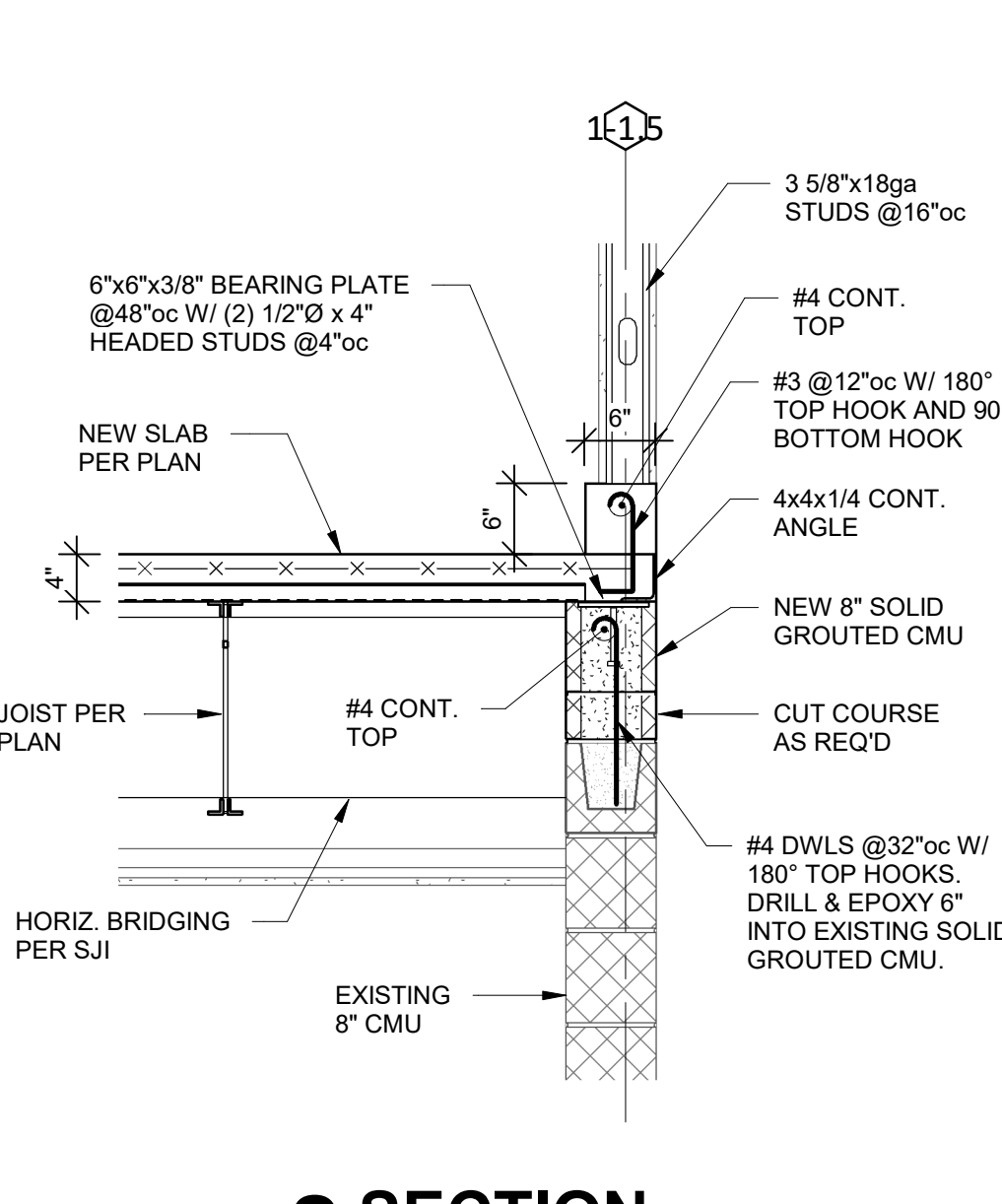
5 SECTION
3/4" = 1'-0"



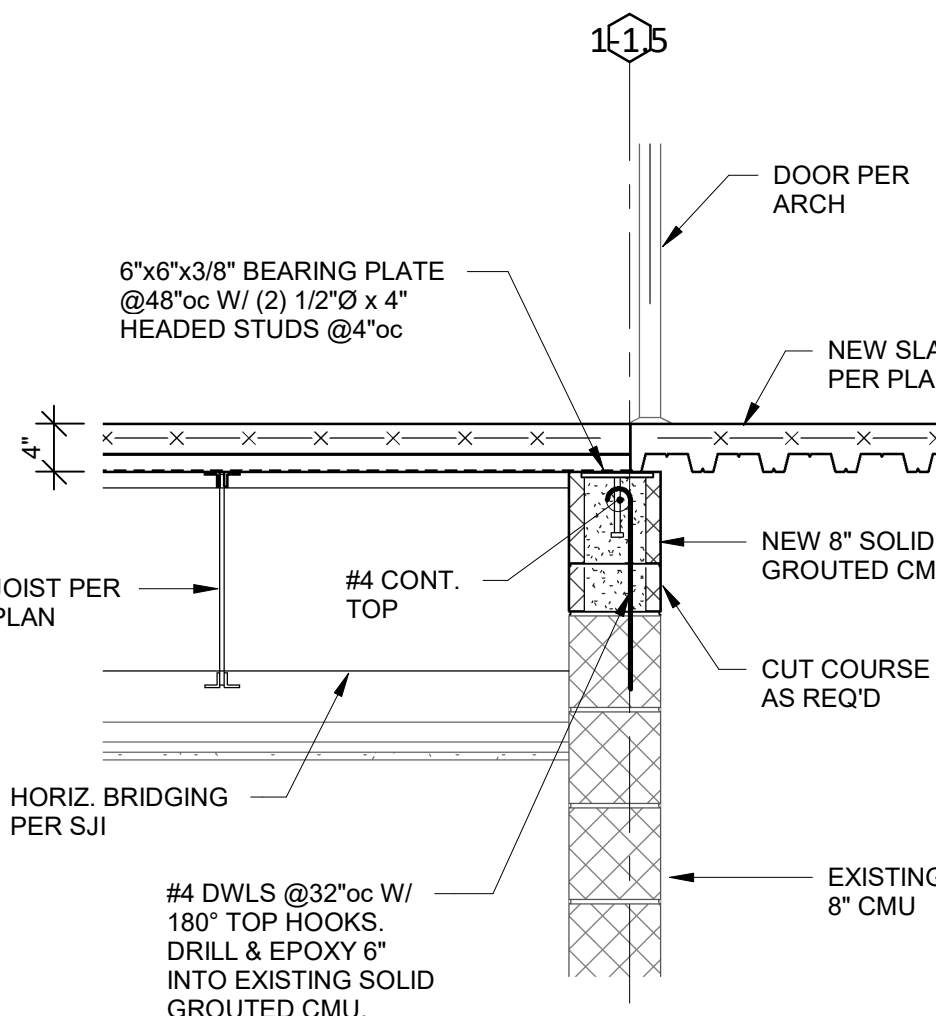
6 SECTION
3/4" = 1'-0"



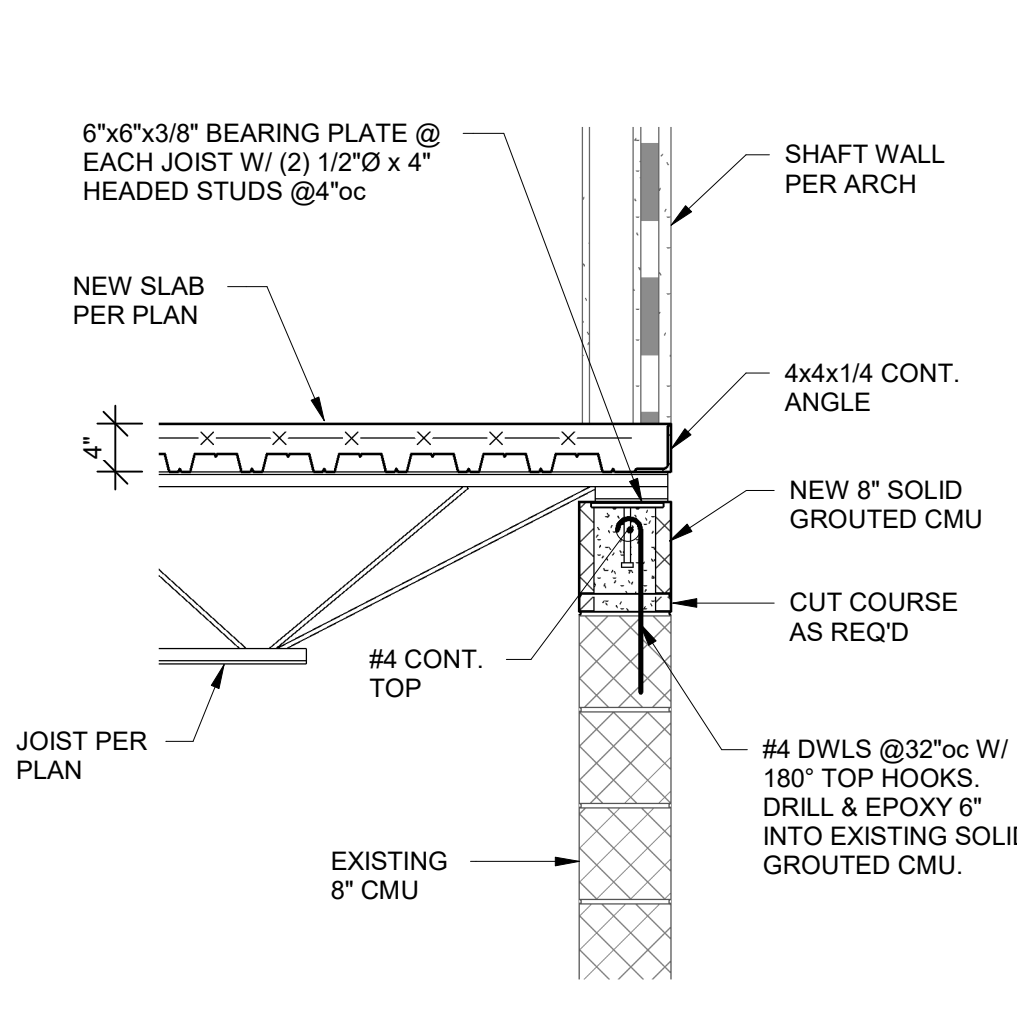
7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"



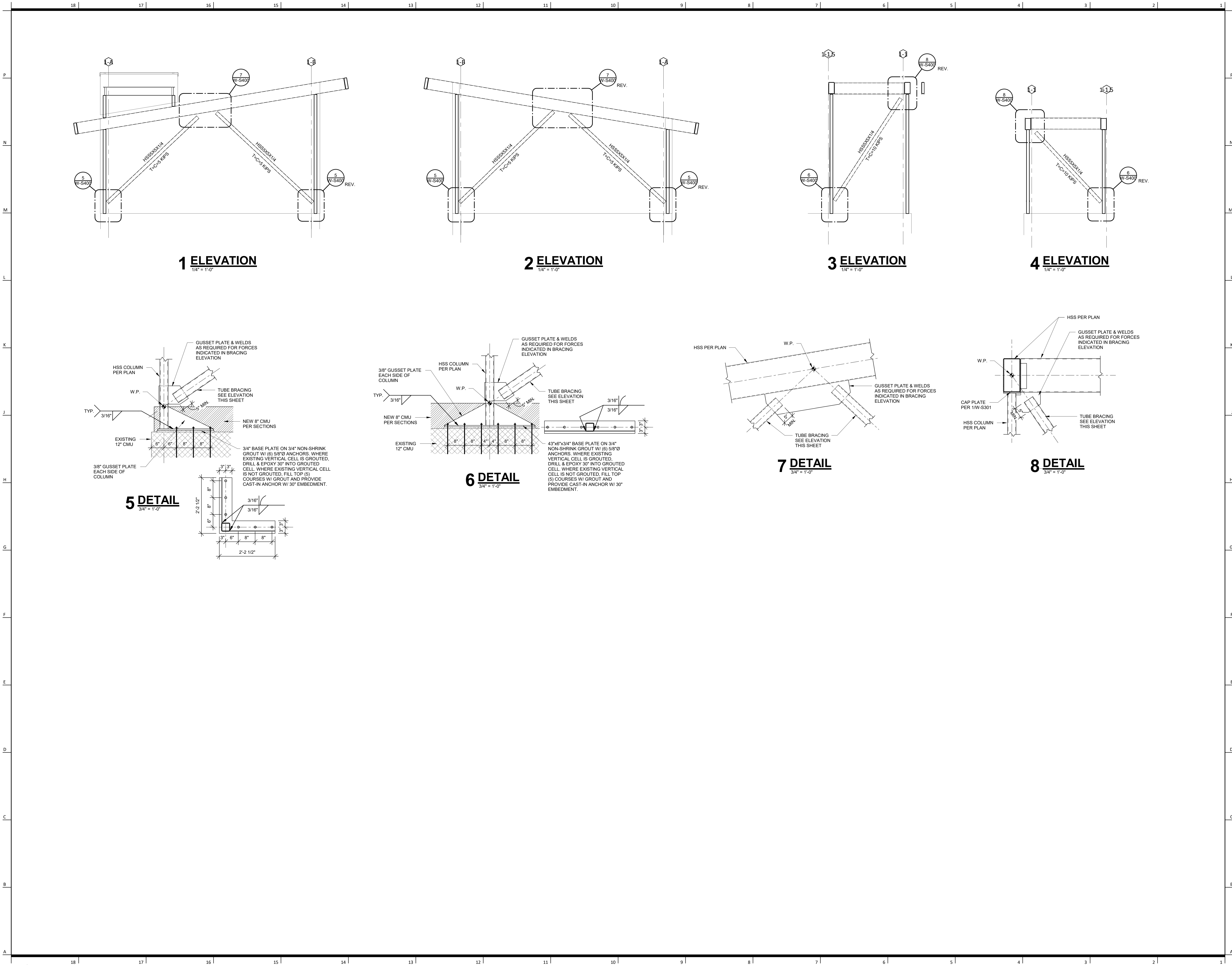
9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"

3/4" = 1'-0"

$$\frac{3}{4}'' = 1'-0''$$
$$\frac{3}{4}'' = 1'-0''$$
$$\frac{3}{4}'' = 1'-0''$$
$$1\frac{1}{2}'' = 1\frac{1}{2}''$$



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Lee's Summit R7 District
Athletics Facilities

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STATE OF MISSOURI
RICHARD
C. CRABTREE
NUMBER
E-027441

Architectural Corporation
Missouri License No.: 2018022991
Jane Doe
Architect

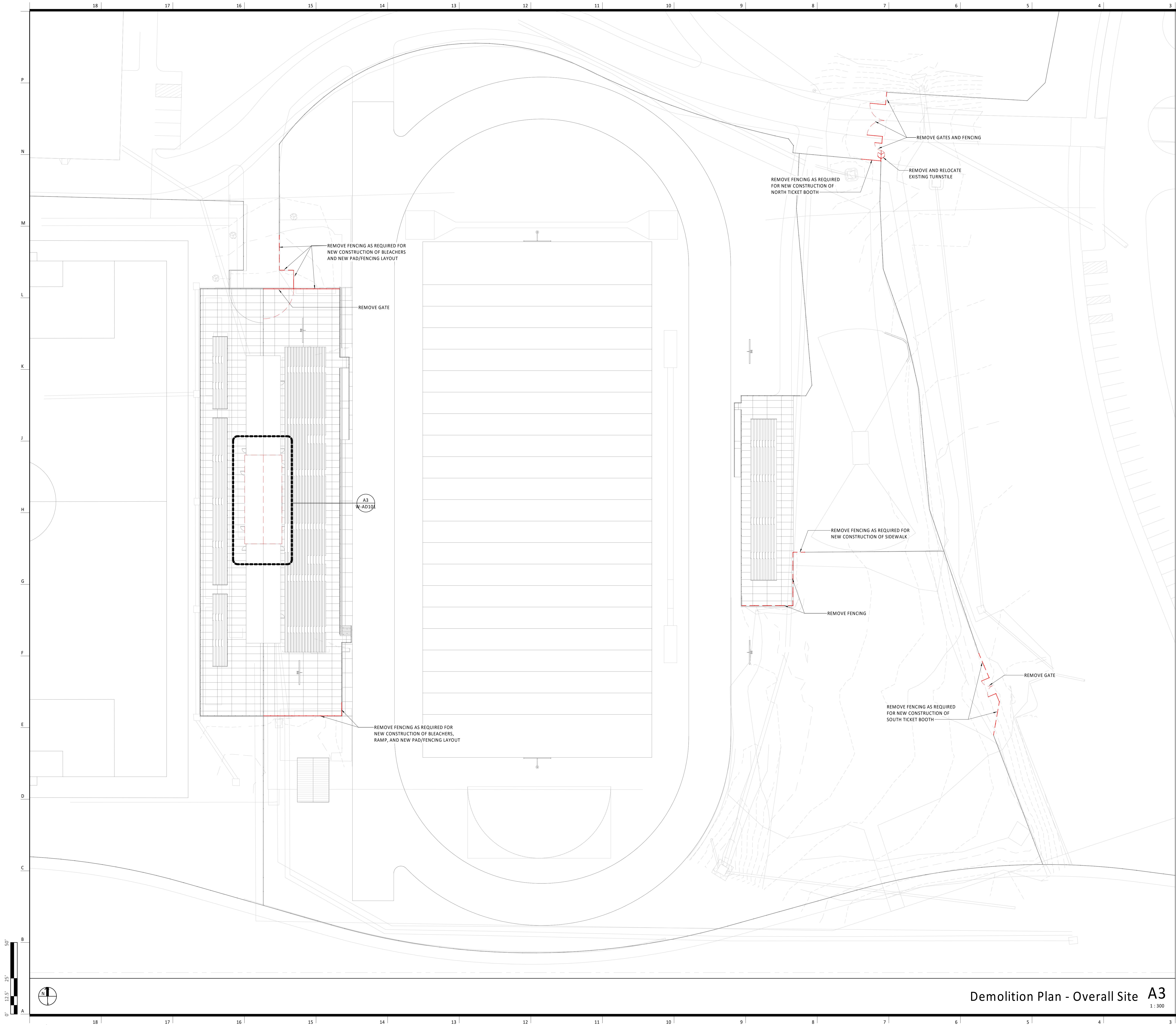
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11/01/2018
License No. A-00000000

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Elevations
W-S400
BID SET



General Notes (Demo Site Plan):

- DEMOLITION OF ELEMENTS ON THIS PLAN ARE LOCATED TO THE BEST OF OUR KNOWLEDGE AND SHOULD BE VERIFIED IN FIELD BEFORE BEGINNING DEMOLITION.
- PROTECT SITE ELEMENTS THAT ARE EXISTING TO REMAIN FROM DAMAGE. INCLUDING BUT NOT LIMITED TO, EXISTING FENCE & GATES, EXISTING BLEACHERS, EXISTING ATHLETICS TRACK, EXISTING SCOREBOARD, ETC.
- ALL GATES ASSOCIATED WITH FENCE TO BE DEMOLISHED SHALL ALSO BE DEMOLISHED, VERIFY IN FIELD.
- ALL FENCE TO BE REPLACED IN PLACE SHALL ALSO HAVE ANY CORRESPONDING GATES REPLACED. RE: W-AS201, VERIFY IN FIELD.
- FILL ALL POST HOLES AFTER DEMOLITION OF FENCE POSTS.

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Lee's Summit R7 District
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Missouri License No. 2018022991 Date: 09/28/2020
Jay Darren Browning
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

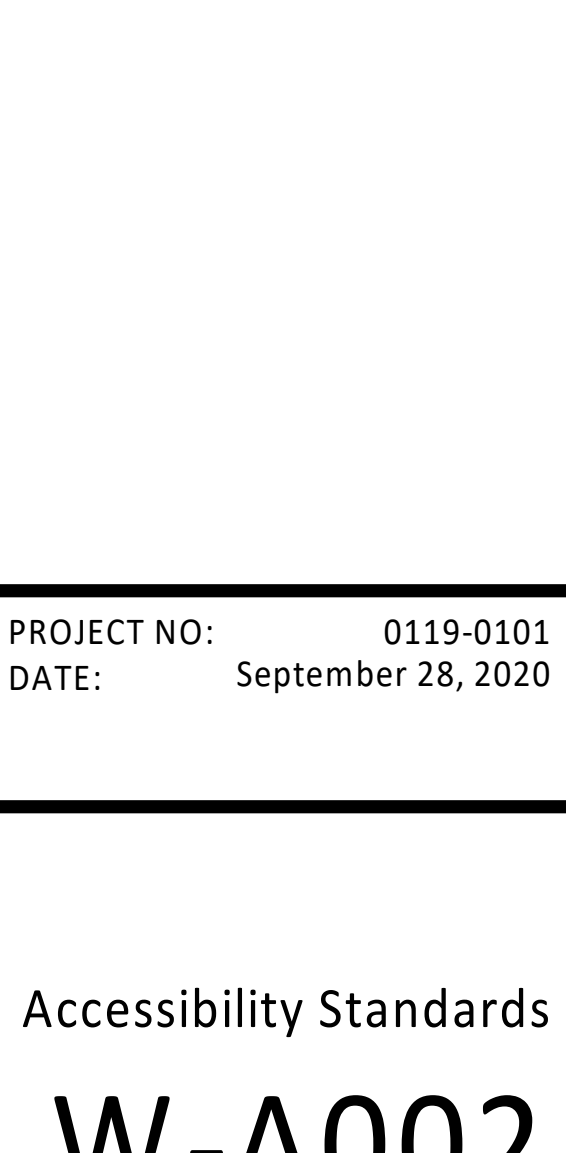
Demolition Plan -
Overall Site

W-AD100

BID SET

Demolition Plan - Overall Site A3
1:300

PRINT DATE/TIME:
9/25/2020 3:32:52 PM



Window Schedule (Exterior)						
Mark	Size		Sill Height	Count		Comments
	Width	Height				
A	3'-3 1/2"	4'-8"	2'-8"	4	(2)	Windows at North Ticket Booth are included in the Base Bid, (2) Windows at South Ticket Booth are included only in Bid Alternate #W-1

INTERIOR

EXTERIOR

(079200) BACKER ROD WITH SEALANT

(085653) SECURITY WINDOWS

(123661) SOLID SURFACING COUNTERTOP

(061600) 3/4" EXTERIOR GRADE PLYWOOD

(079200) SEALANT

(076200) FLASHING

(061600) 1/2" EXTERIOR GRADE PLYWOOD

(064116) P-LAM BASE CABINET (BEYOND)

(085653) SECURITY WINDOWS

RE: SCHEDULE

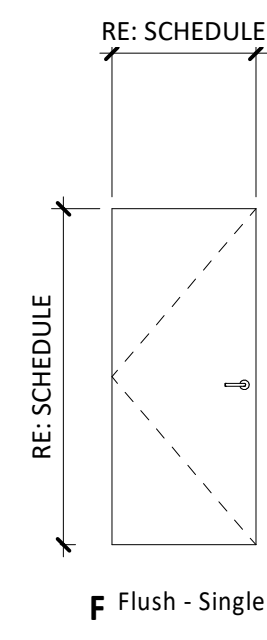
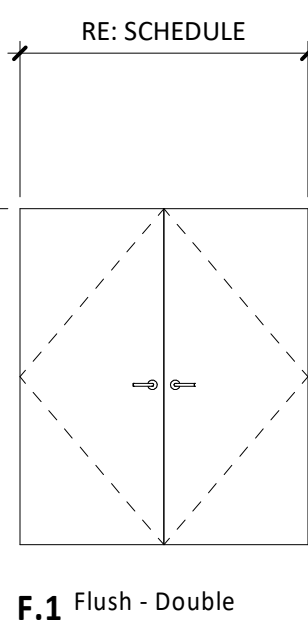
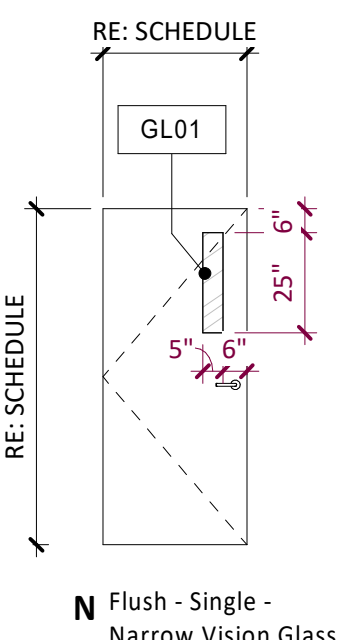
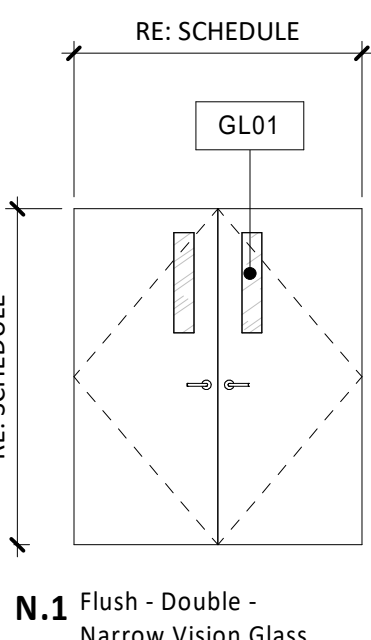
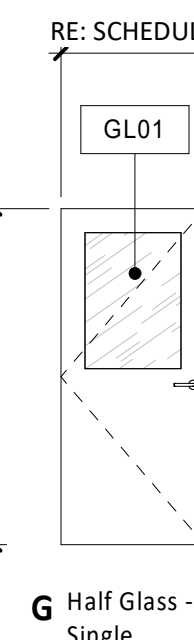
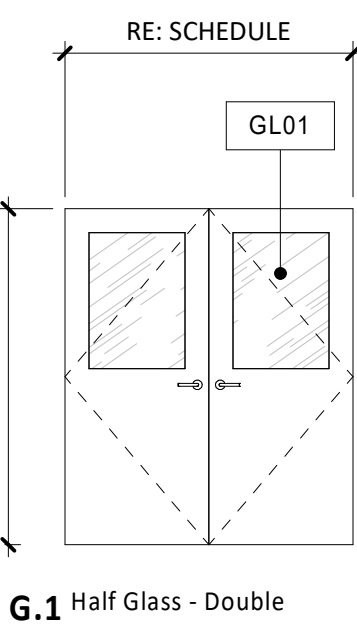
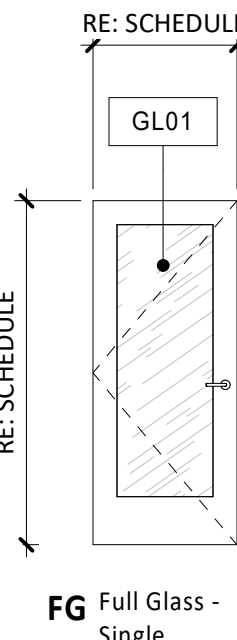
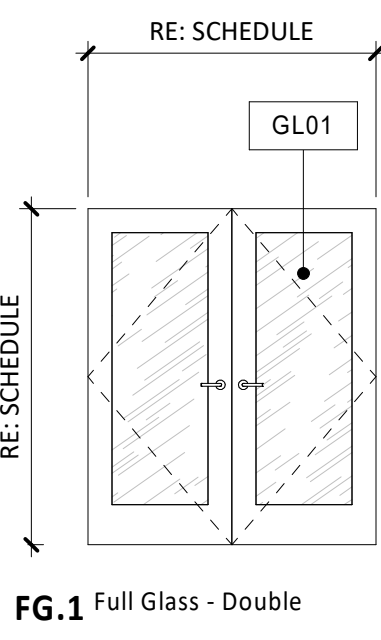
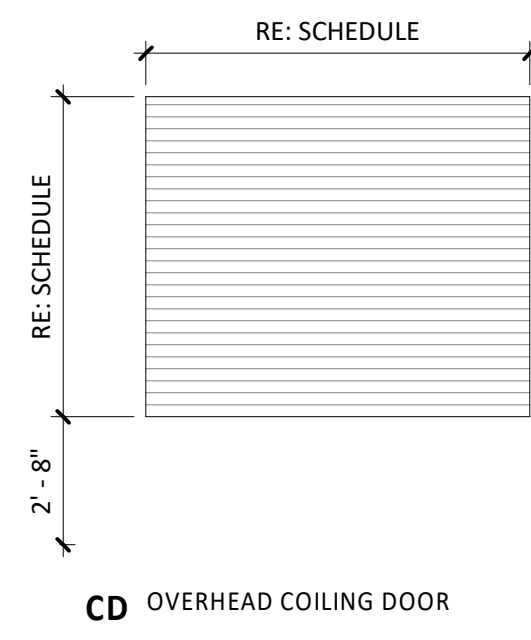
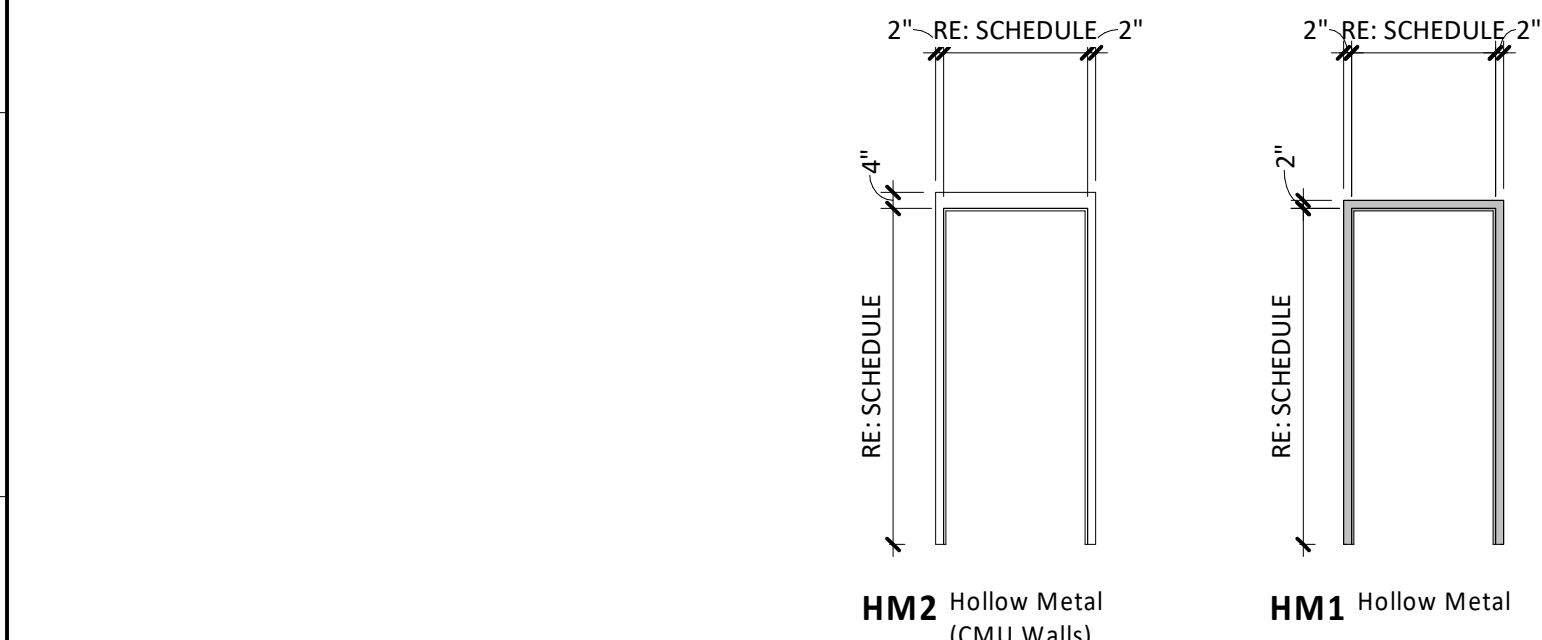
RE: SCHEDULE

A Ticket Booth Transaction Window

Window A Details K15
1 1/2" = 1'-0"

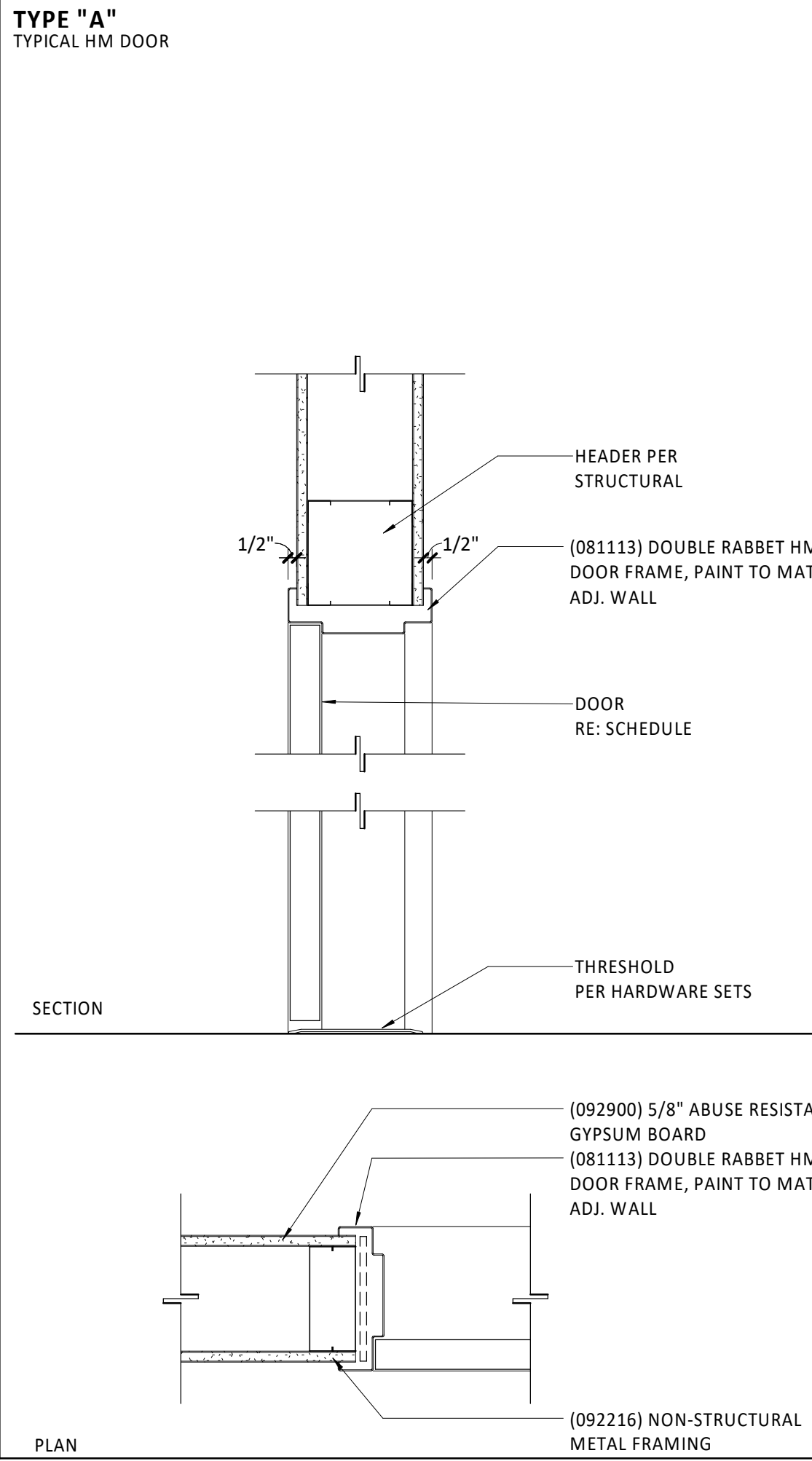
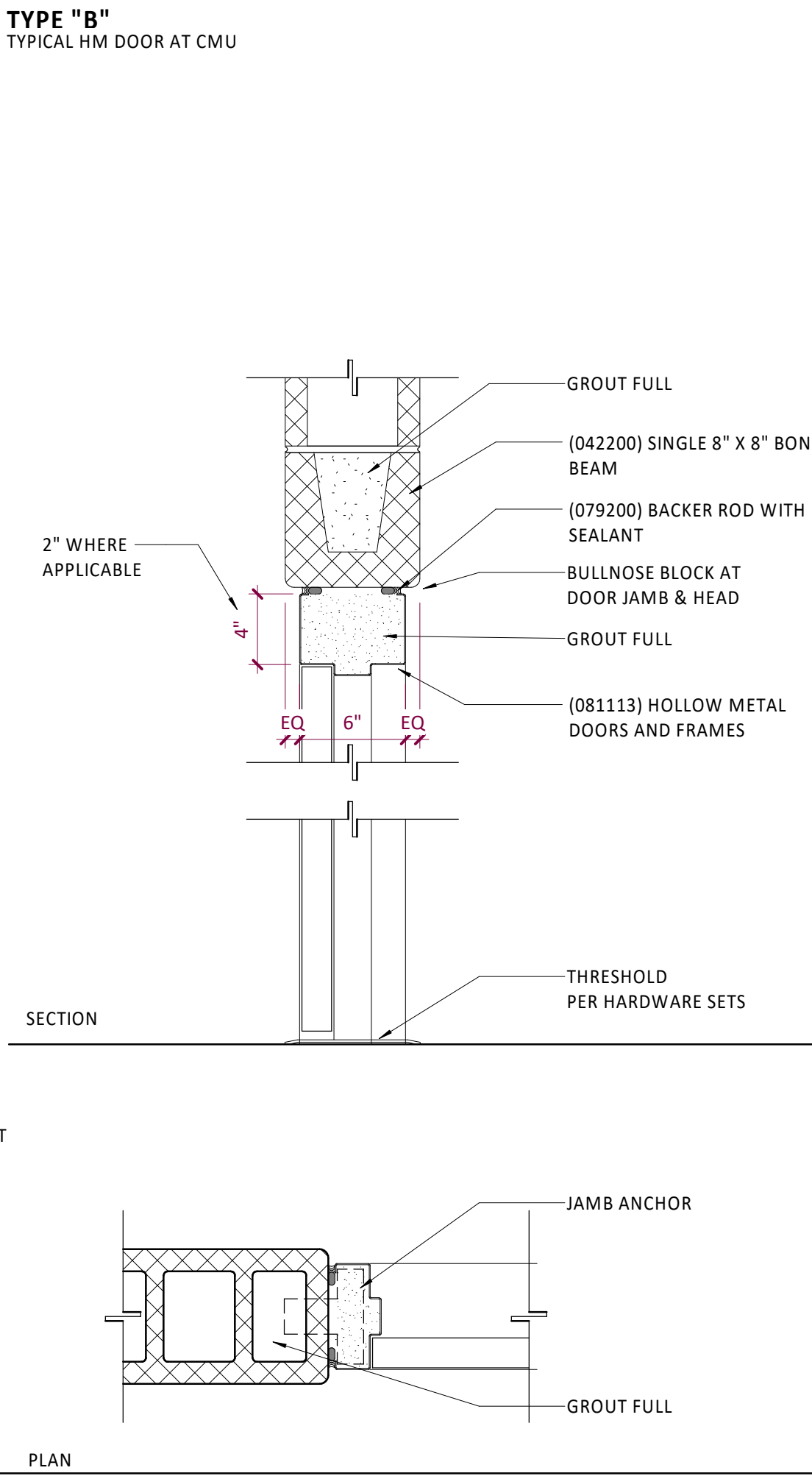
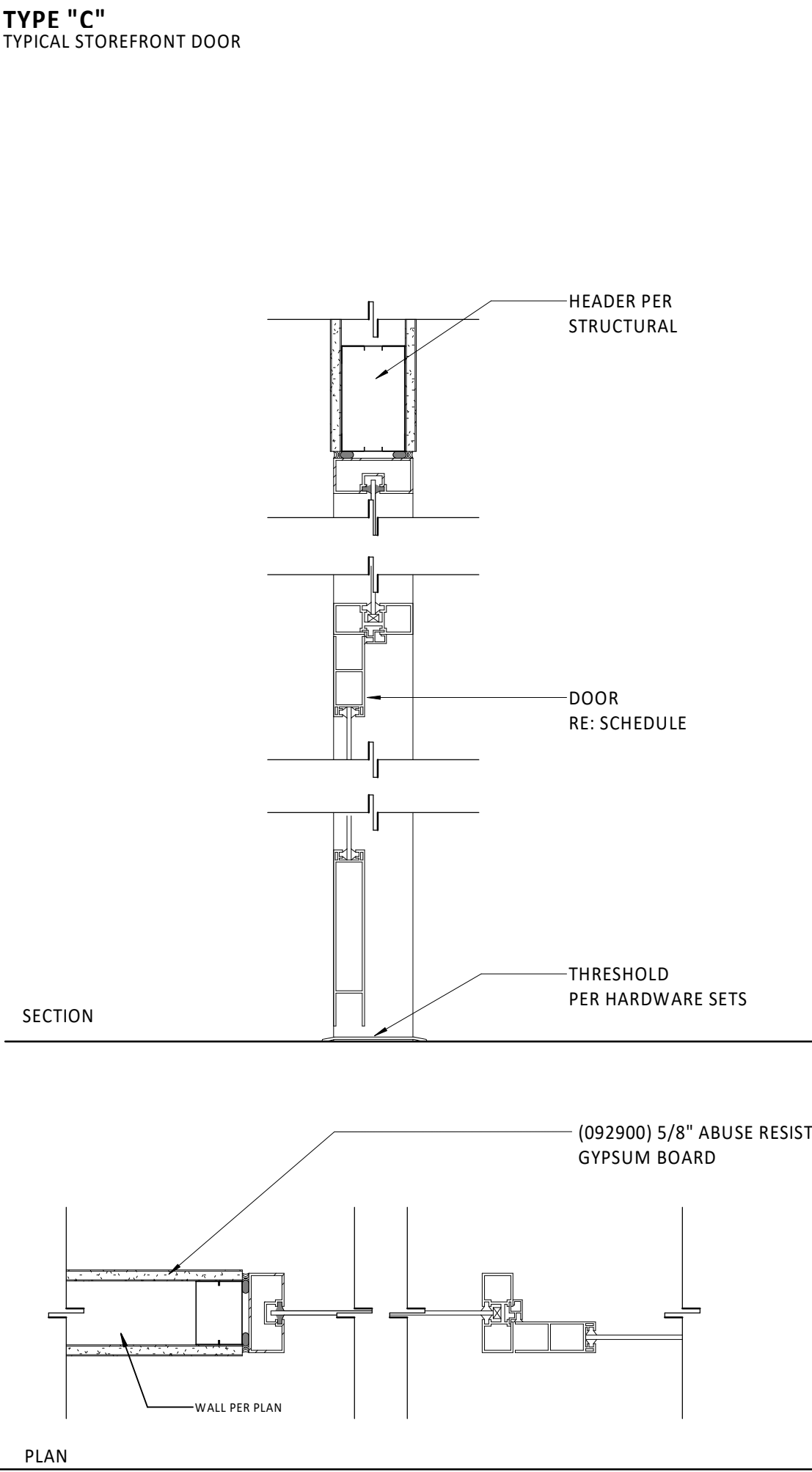
Window Types K12
1/4" = 1'-0"

Door Schedule													
Mark	Room		Assembly			Door			Frame				
	From:	To:	Type	Fire Rating	Hardware Set	Detail Type	Width	Height	Thickness	Material	Finish	Frame Type	Finish
1 North Ticket													
W4-101A	W4-101		F	--	02	B	3'-0"	7'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03
1 Concessions													
W2-101A	W2-101	F	--	02	B	3'-0"	9'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03	
W2-101B	W2-101	CD	--	18	G	8'-0"	6'-8"	2"	STL	W-PT01	--	--	
W2-101C	W2-101	CD	--	18	G	8'-0"	6'-8"	2"	STL	W-PT01	--	--	
W2-102A	W2-102	F	--	11	B	3'-0"	7'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03	
W2-103A	W2-102	W2-103	F	--	11	B	3'-0"	7'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03
W2-104A	W2-104	F	--	05	B	3'-0"	9'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03	
W2-105A	W2-105	W2-107	F	--	20	B	3'-0"	9'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03
W2-106A	W2-105	W2-106	F	--	17	B	3'-0"	7'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03
W2-107A	W2-107	F	--	02	B	3'-0"	9'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03	
W2-108A	W2-108	W2-107	F	--	14	B	3'-0"	9'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03
W2-109A	W2-101	W2-109	F	--	14	B	3'-0"	7'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03
1 South Ticket													
W5-101A	W5-101	F	--	02	B	3'-0"	7'-0"	1 3/4"	HM	W-PT03	HM2	W-PT03	
3 Press Box													
W1-302A	W1-301	W1-302	F	--	03	A	3'-0"	7'-0"	1 3/4"	HM	W-PT01	HM1	W-PT01
W1-53A	W1-53	W1-301	F	60 MIN	09	A	3'-0"	7'-0"	1 3/4"	HM	W-PT01	HM1	W-PT01



Frame Types A15
1/4" = 1'-0"

Door Types A3
1/4" = 1'-0"



Door Details D3
1 1/2" = 1'-0"

- General Notes (Door Schedule):
- THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY REGULATIONS.
 - ALL DOOR FRAMES ARE TO BE WELDED.
 - EDGE CLEARANCES IN ACCORDANCE WITH AWI QUALITY STANDARDS.
 - DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
 - PROVIDE BLOCKING AT ALL WALL MOUNTED DOOR STOPS.
 - GLAZING STOPS IN WOOD DOORS: SAME SPECIES AS DOOR FACE, MITERED CORNERS, CONCEALED FASTENERS.
 - FACTORY FINISH WOOD DOORS.
 - ALL EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE LABELED "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." THIS SIGN SHALL BE IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE, MANUALLY OPERATED. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED. DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
 - PROVIDE CLOSERS AT ALL FIRE RATED AND EXTERIOR DOORS. COORDINATE WITH HARDWARE SETS.
 - PROVIDE SAFETY GLAZING IN ALL DOORS AND ASSOCIATED ACTIVE/FIXED PANELS.
 - PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 24 INCHES OF EITHER EDGE OF A OPERABLE DOOR.
 - PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 18 INCHES FROM AND RAMP/STAIR LANDING OR HAND/GUARDRAIL.
 - ANY DOOR CARRYING A U.L. RATING SHALL BE INSTALLED IN A U.L. RATED FRAME CARRYING THE SAME DESIGNATION.
 - PROVIDE FIRE RATED GLAZING IN PANELS LOCATED WITHIN A RATED WALL.
 - CONTRACTOR TO COORDINATE SILL HEIGHTS WITH ELEVATIONS AND WALL SECTIONS.
 - PAIN METAL DOORS AND FRAMES TO MATCH ADJACENT WALLS UNLESS OTHERWISE NOTED. REFER TO FINISH LEGEND FOR ADDITIONAL INFORMATION.
 - REFER TO "PROJECT MANUAL" FOR HARDWARE SETS AND ADDITIONAL DOOR REQUIREMENTS.

- DOOR LEGEND:
- AL ALUMINUM
 - CA CARD ACCESS DEVICE
 - CL CLOSER
 - FRP FIBERGLASS
 - GL GLASS
 - HC HOLLOW CORE
 - HM HOLLOW METAL
 - L LOUVER
 - PF PRE-FINISHED/FACTORY FINISHED
 - PH PANIC HARDWARE
 - PR PAIR
 - PTD PAINTED
 - SD SMOKE & DRAFT CONTROL
 - SS STAINLESS STEEL
 - STL STEEL
 - T TEMPERED GLASS
 - V VISION
 - WD WOOD
- HARDWARE/OPERATION:
- CARD READER TYPE 01
 - DOOR MONITOR
 - ELECTRIC LOCK & MONITOR - EACH LEAF IF PAIR
 - VIDEO MONITOR - DOOR STATION WALL MOUNT
 - ADA PUSH BUTTON ON PEDESTAL
 - ADA PUSH BUTTON ON MULLION
 - ADA PUSH BUTTON ON WALL
 - ACOUSTICAL DOOR AND FRAME
 - AUTOMATIC DOOR OPENER BOTH SIDES
- MATERIALS/FINISHES:
- PAINT FRAME TO MATCH ADJACENT WALL
 - PAINT DOOR AND FRAME TO MATCH ADJACENT WALL

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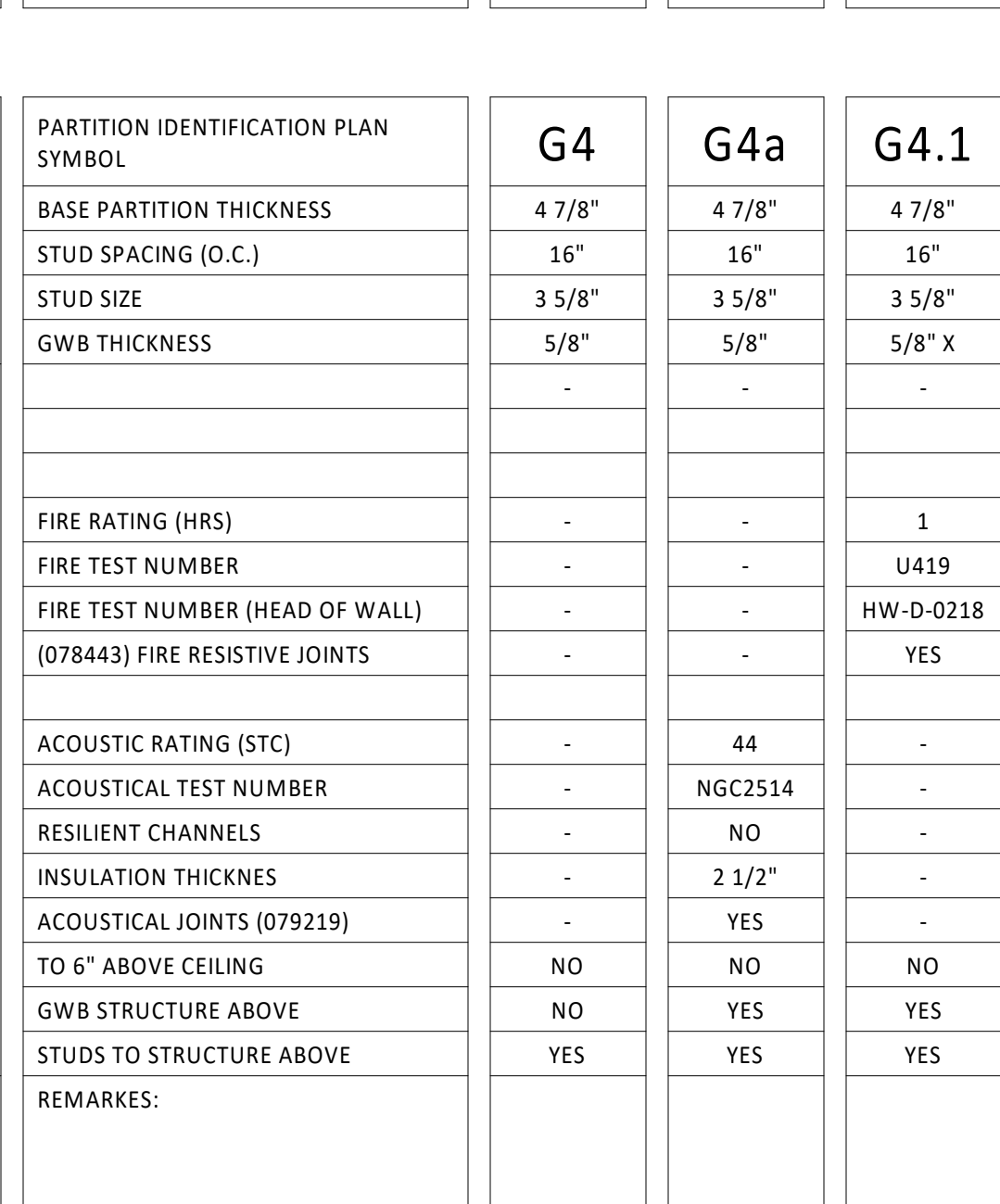
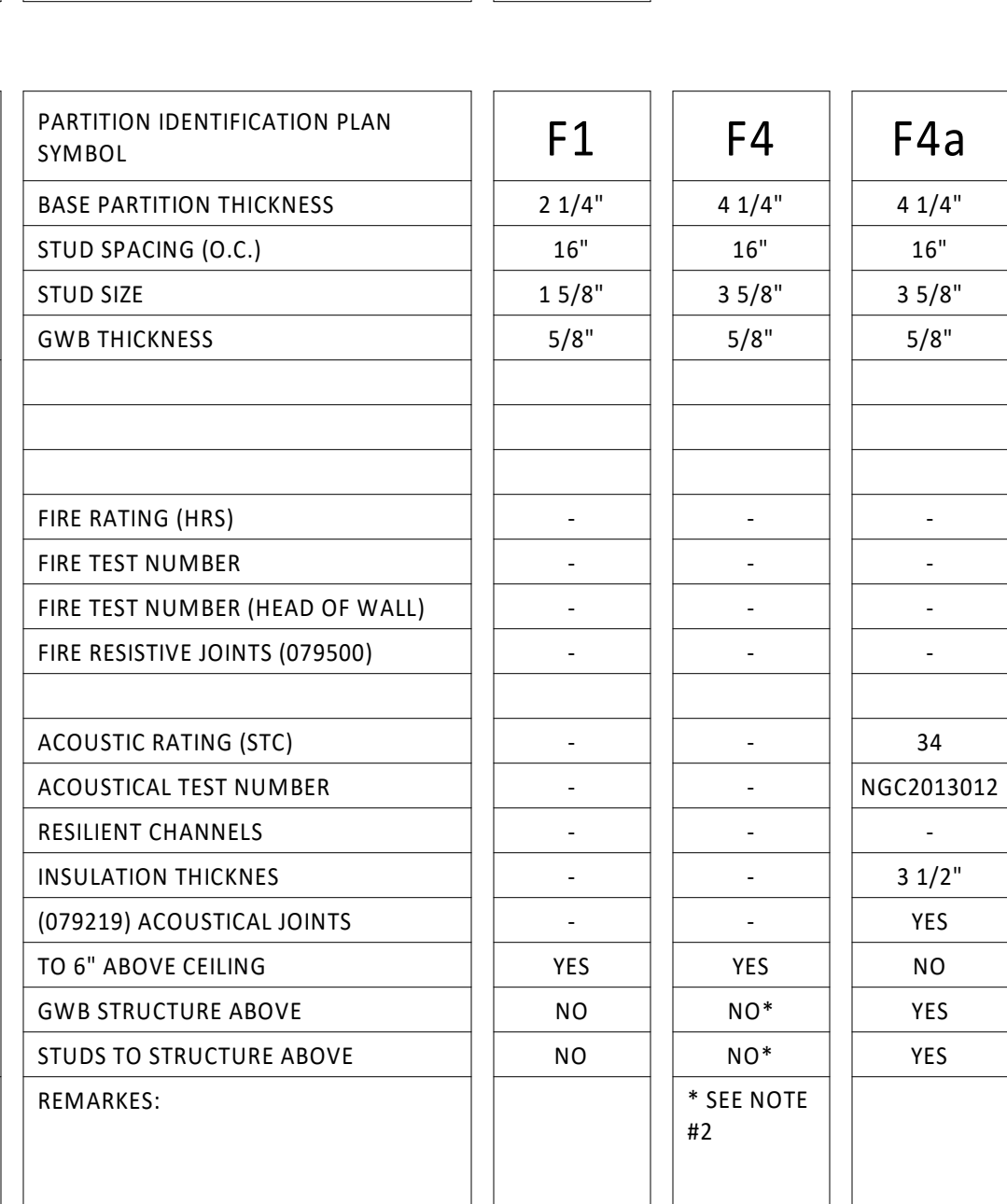
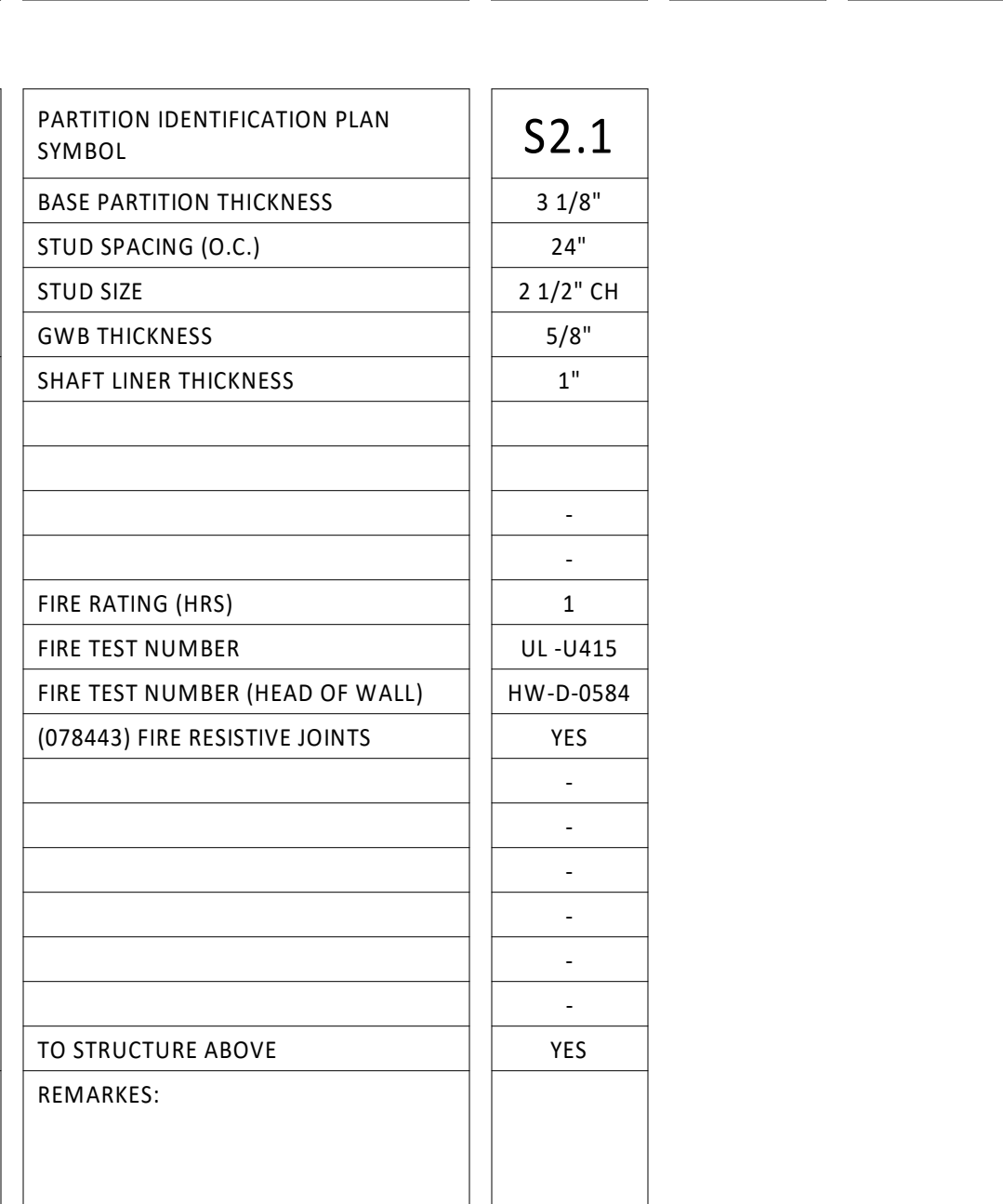
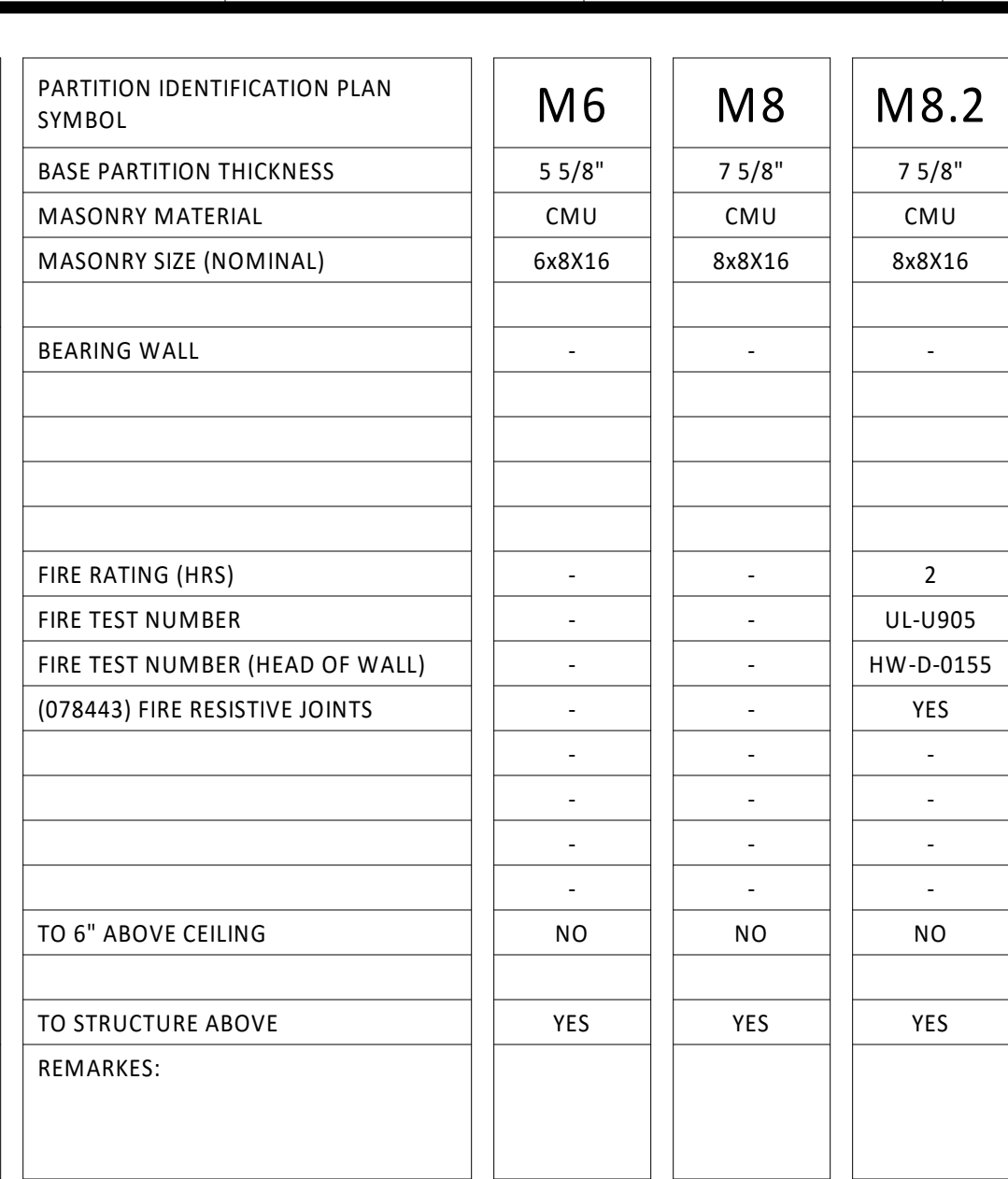
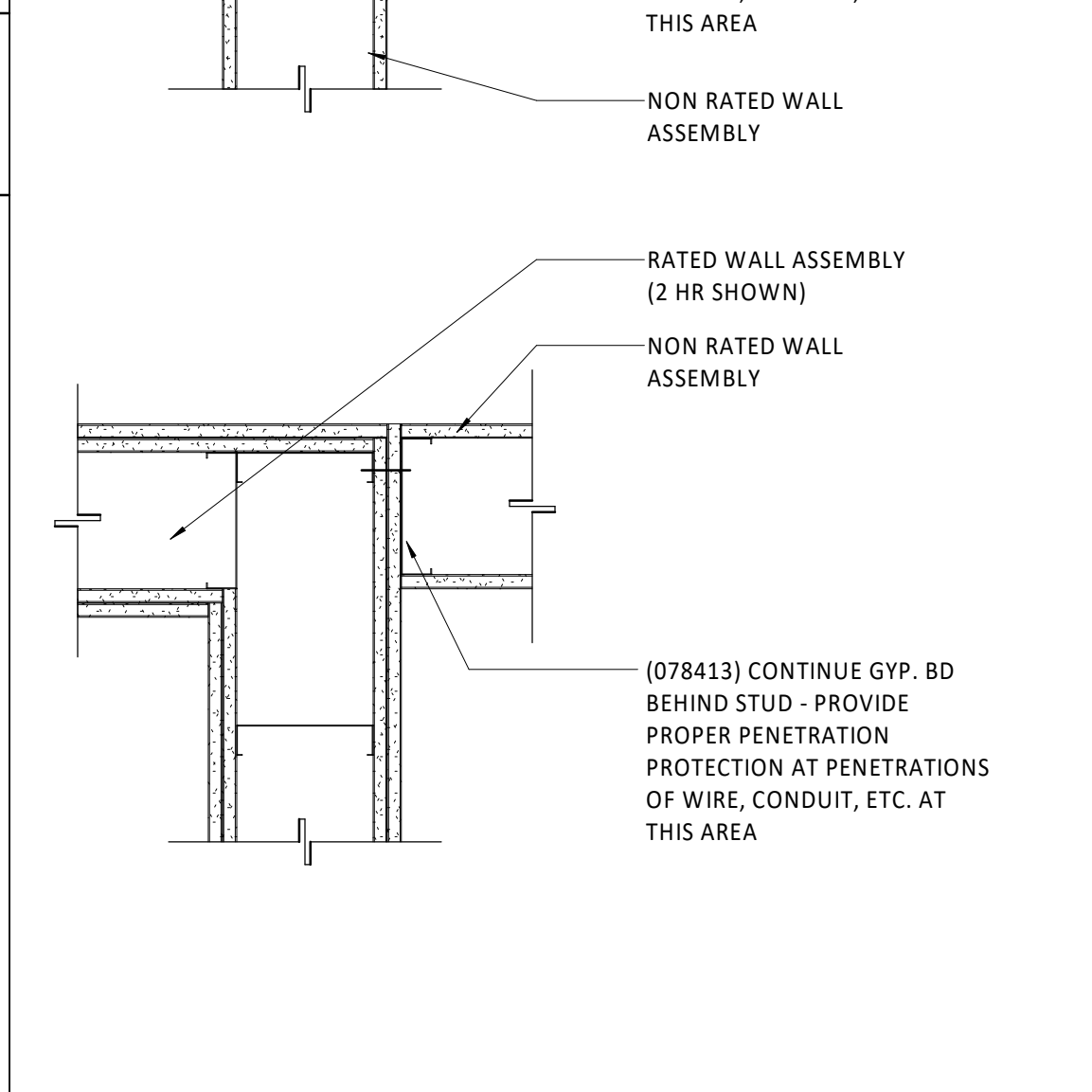
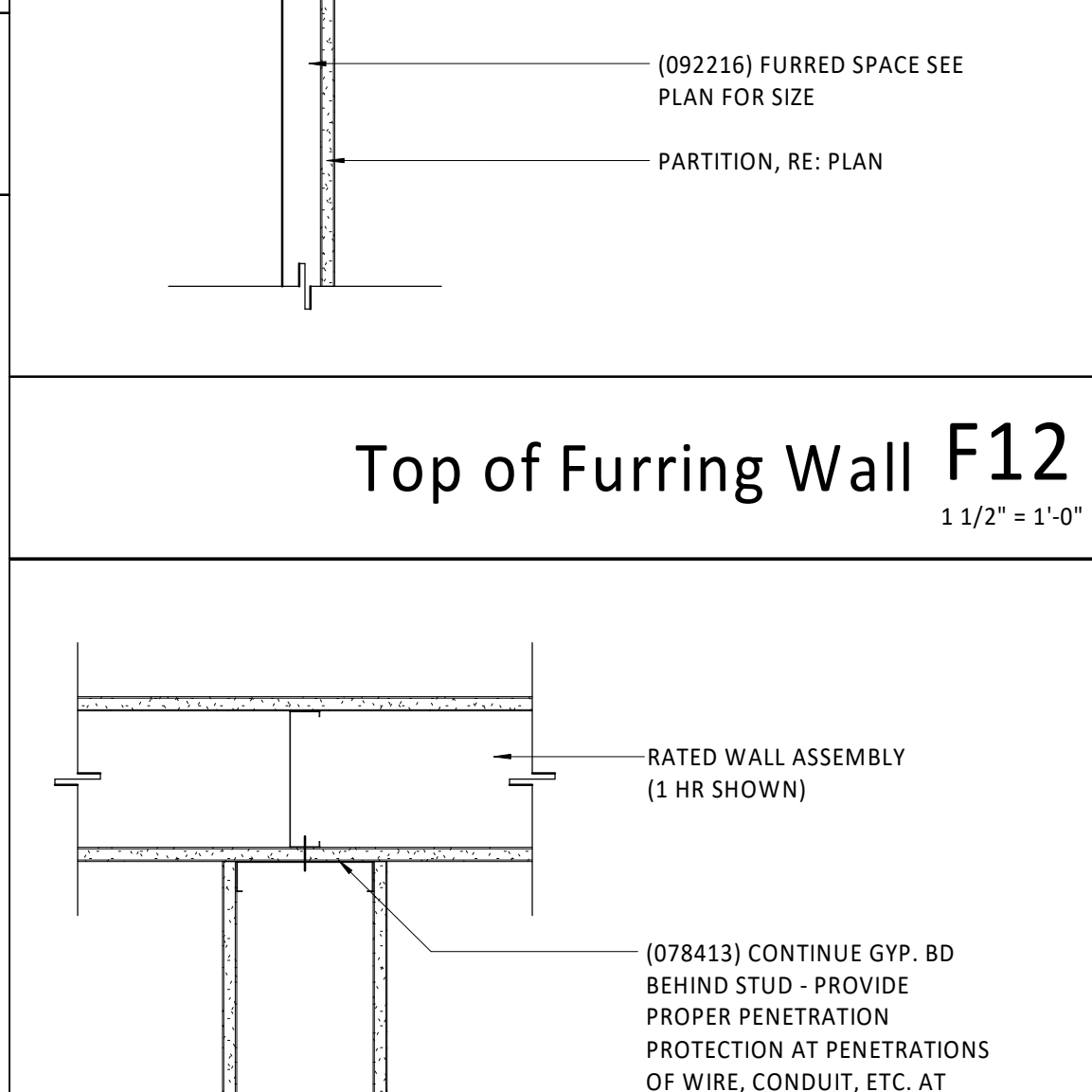
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Door & Window
Schedule, Types, &
Details

W-A080

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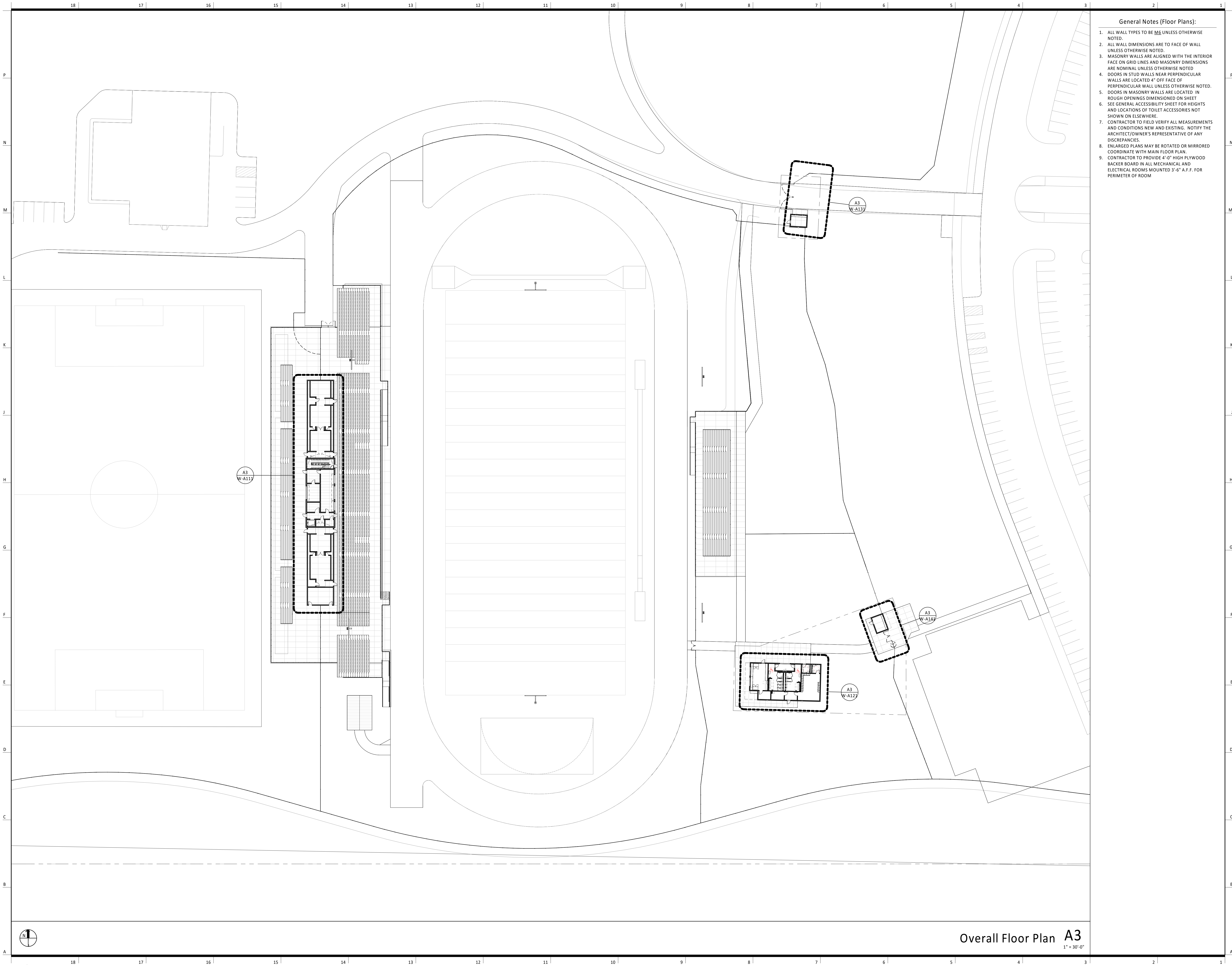


General Notes (Interior Partitions):				
1.	REFER TO PLANS/CODE PLANS FOR PARTITION TYPE LOCATIONS.			
2.	PARTITION TYPES DESIGNATED ON PLANS SHALL RUN FROM CORNER TO CORNER UNLESS OTHERWISE NOTED.			
3.	PARTITIONS SHALL EXTEND TO STRUCTURE ABOVE AND SHALL BE CONSTRUCTED TO ACCOMMODATE DEFLECTION UNLESS NOTED OTHERWISE.			
4.	FIRE-RESISTANCE RATED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REFERENCED ASSEMBLY DESCRIPTION. REFER TO CODE PLANS FOR MORE INFORMATION.			
5.	FIRE-RATED WALLS REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH SIGNAGE SHOULD BE ABOVE ACCESSIBLE CEILINGS AND/OR BELOW ACCESSIBLE FLOORS.			
6.	WHERE DIFFERENT PARTITION TYPES INTERSECT, THE PARTITION TYPE WITH THE GREATER FIRE-RESISTANCE RATING SHALL CONTINUE WITHOUT INTERRUPTION.			
7.	PENETRATIONS OF FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRE-RATED PENETRATION PROTECTION IN ACCORDANCE WITH AN APPROVED UNDERWRITERS LABORATORY SYSTEM.			
8.	FIRE DAMPERS OR FIRE DOORS SHALL BE PROVIDED WHERE AIR DUCTS OR OPENINGS PENETRATE FIRE-RATED PARTITIONS.			
9.	AT ALL WET AREAS AND LOCATIONS TO RECEIVE TILE, COORDINATE THE SUBSTRATE MATERIAL WITH PROJECT MANUAL. EXTEND THE SUBSTRATE A MINIMUM OF 4'-0" BEYOND THE WET AREA.			
10.	USE ACOUSTICAL SEALANT AROUND ALL PIPES, DUCTS, CONDUIT, JUNCTION BOXES, ETC. ON BOTH SIDES OF CROSSING / PENETRATING WALLS WITH ACOUSTICAL RATINGS. COLOR MATCH SEALANT TO THE ADJACENT WALL COLOR.			
11.	PROVIDE IMPACT RESISTANT TRIM OR CASING AT ALL EDGES OF PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE.			
12.	PROVIDE IMPACT RESISTANT CORNER READS AT ALL OUTSIDE CORNERS OF PLASTER AND GYPSUM BOARD SURFACES, UNLESS NOTED OTHERWISE.			
13.	CONTRACTOR TO PROVIDE WOOD BLOCKING BEHIND ALL TOILET ROOM ACCESSORIES, GRAB BARS, HANDRAILS, WOOD TRIM, AND WALL MOUNTED FIXTURES.			
14.	INSTALL CONTROL JOINTS IN GYPSUM BOARD CONSTRUCTION AS SHOWN ON THE DRAWINGS AND IN PARTITIONS AND WALL FURRING RUNS EXCEEDING 30 FEET, SPACING CONTROL JOINTS NOT MORE THAN 30 FEET O.C. VERIFY LOCATIONS WITH ARCHITECT. INSTALL CONTROL JOINTS IN FURRED ASSEMBLIES WHERE CONTROL JOINTS OCCUR IN BASE EXTERIOR WALL.			

Gypsum Board Schedule	
5/8" GYPSUM BOARD	ALL LOCATIONS UNLESS NOTED BELOW OR DETAILED OTHERWISE.
5/8" ABUSE RESISTANT GYPSUM	HIGH TRAFFIC AREAS SUCH AS LOBBIES, PUBLIC CORRIDORS AND WORK ROOMS SUCH AS: JANITOR, HOUSEKEEPING, MECHANICAL, ETC.
5/8" GLASS MAT BACKING	"WET" WALLS NON-RATED WITH PLUMBING FIXTURES, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, ETC.
1/2" FIBER CEMENT BACKING PANELS	WALLS EXPOSED DIRECTLY TO RUNNING WATER AND SCHEDULE TO RECEIVE TILE, BATHTUBS, SHOWERS, ETC.
1" SHAFT LINER PANELS	INTERIOR OF SHAFT WALL ASSEMBLIES

Interior Partition Naming Convention	
G6.1	PARTITION MATERIAL TYPE
	NOMINAL STUD/PARTITION THICKNESS
	FIRE RATING OR OTHER MODIFIER

Interior Partition Types				
Mark	Width	Fire Rating	Type Comments	
F4	4 1/4"	NR	(092900)	Gypsum Board Partition
G4	4 7/8"	NR	(092900)	Gypsum Board Partition
G4.1	4 7/8"	1 HR	(092900)	Gypsum Board Partition
M6	4 5/8"	NR	(042200)	Concrete Unit Masonry
S2.1	3 1/8"	1 HR	(092116)	Gypsum Board Shaft Wall



- General Notes (Floor Plans):
1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
 2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
 3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
 4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
 5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
 6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
 7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
 8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
 9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

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Lee's Summit R7 District
Athletics Facilities

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Lee's Summit, MO 64082

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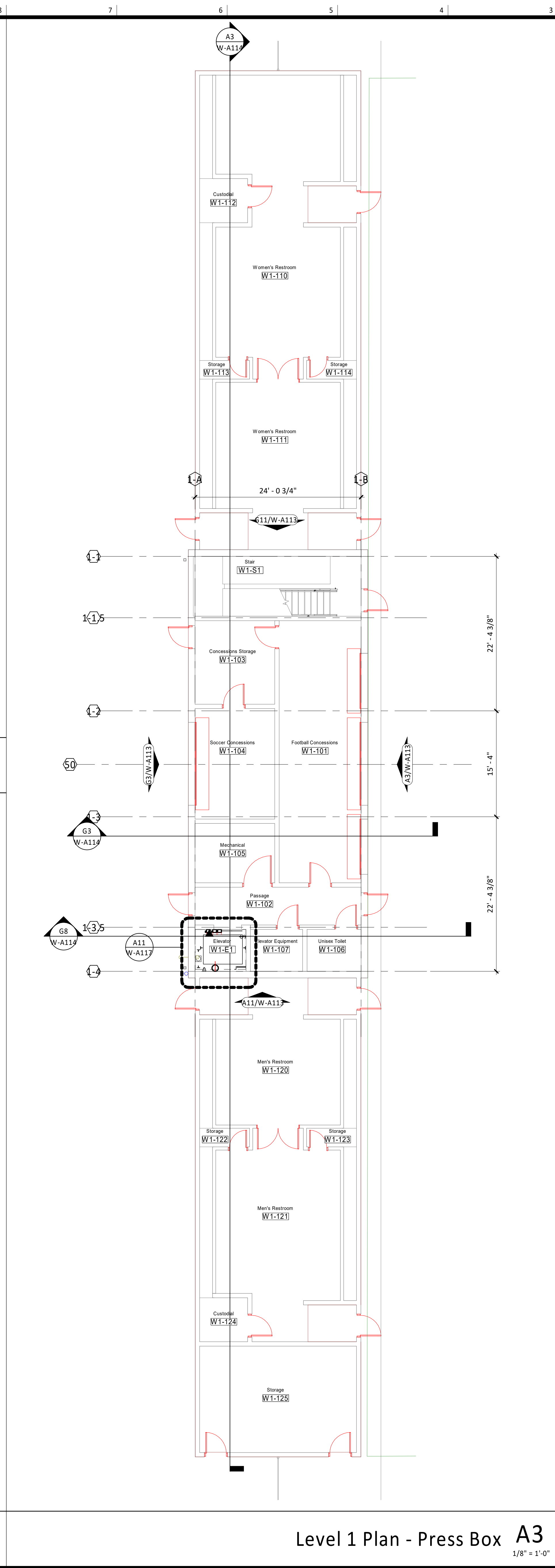
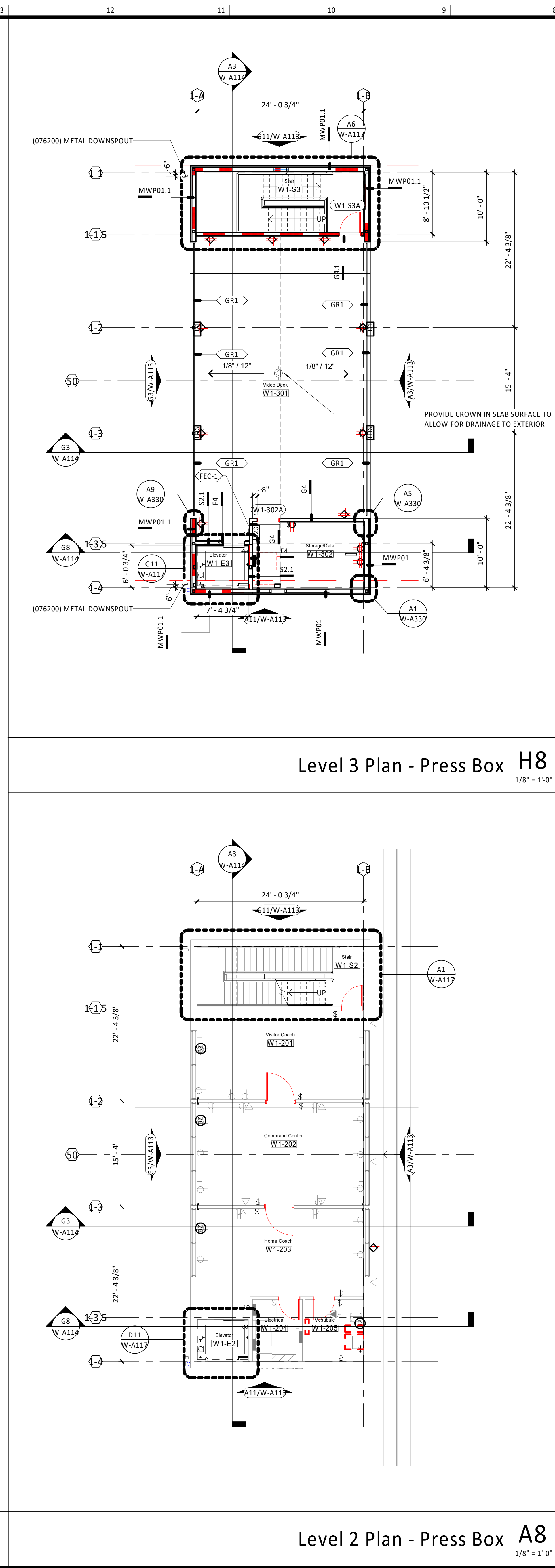
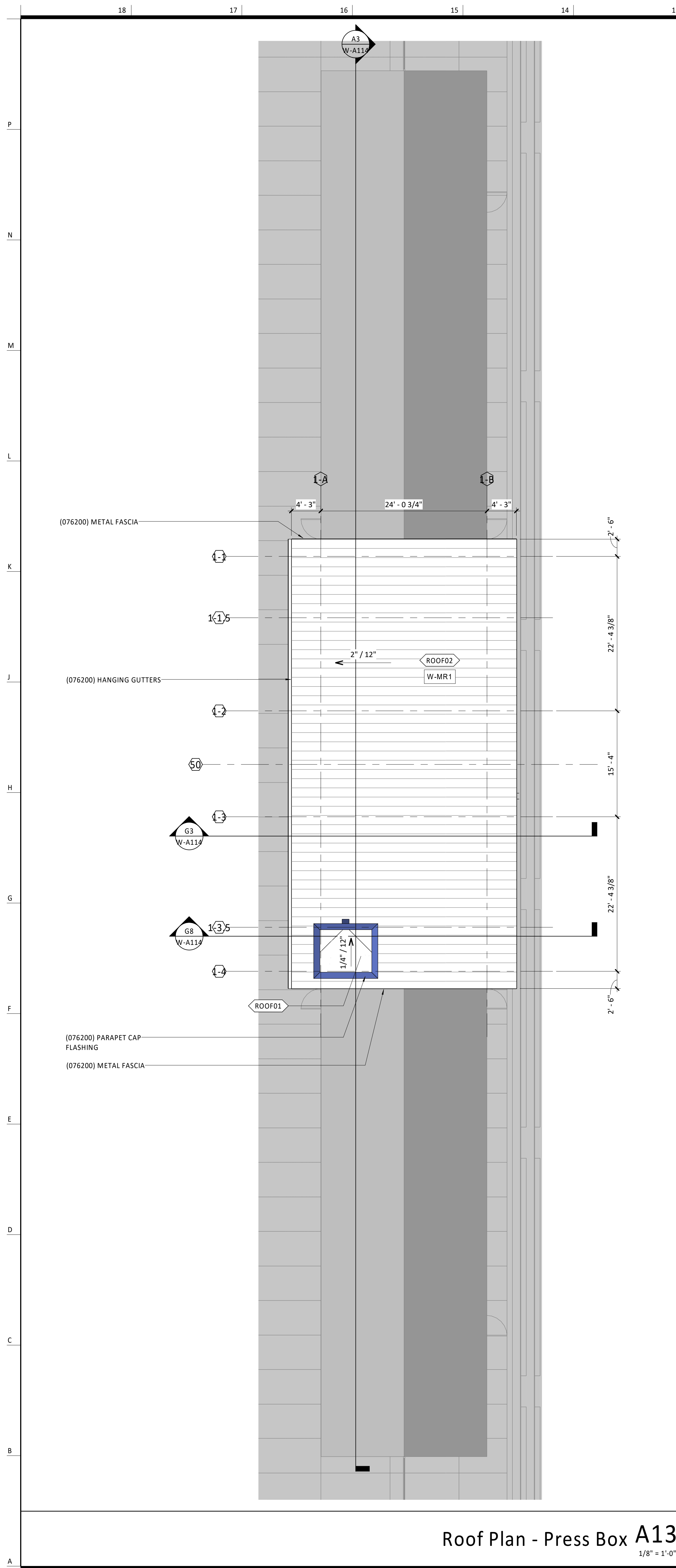
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Overall Floor Plan

W-A101

BID SET



- ### General Notes (Floor Plans):
1. ALL WALL TYPES TO BE MASONRY UNLESS OTHERWISE NOTED.
 2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
 3. CONCRETE FLOORS SHALL BE CAST WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED
 4. PERPENDICULAR WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
 5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET
 6. LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON FLOOR PLANS SHALL BE LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
 7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
 8. CHANGING OF PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
 9. CONTRACTOR TO PROVIDE 4" OF HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MEASURED 3'-6" A.F.F. FOR PERMETER OF ROOM

- ### General Notes: (Roof Plan)
1. REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
 2. MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE
 3. ELEVATION ABREVIATIONS AS FOLLOWS: **BD** = BOTTOM OF DECK, **TO5** = TOP OF STEEL, **TOP** = TOP OF PARAPET
 4. OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH
 5. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
 6. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
 7. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.

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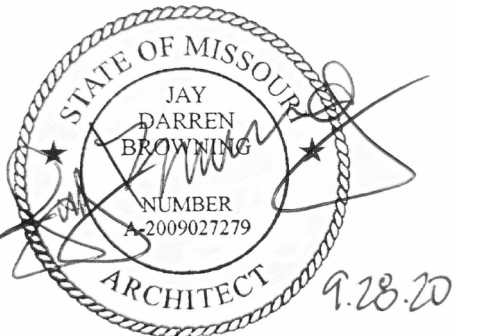
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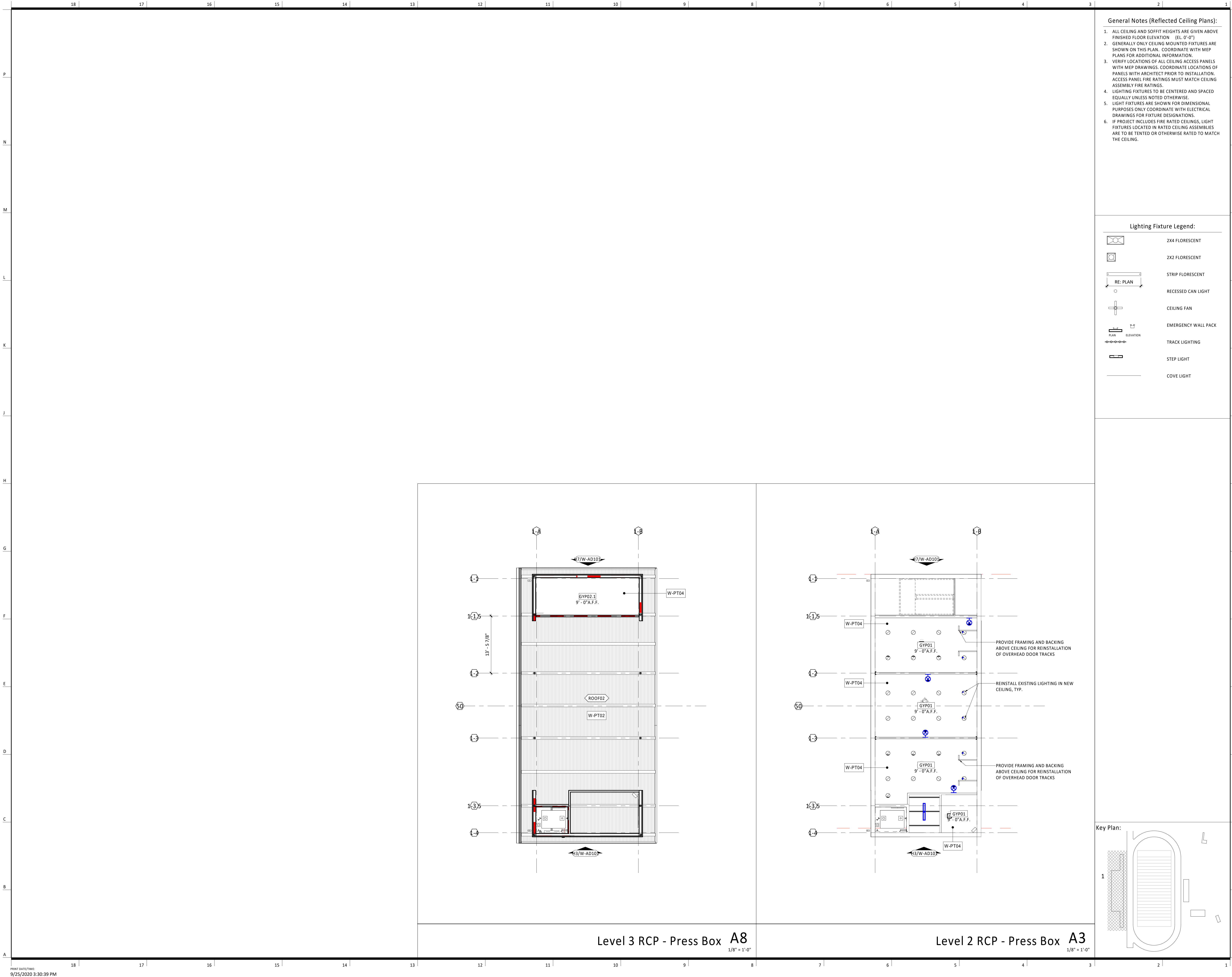
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Press Box - Floor/Roof Plans

W-A111

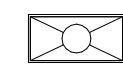
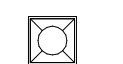
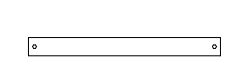
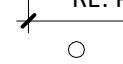
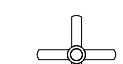

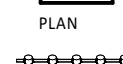


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General Notes (Reflected Ceiling Plans):

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION - (EL. 0'-0").
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
4. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
5. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
6. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

Lighting Fixture Legend:

-  2X4 FLORESCENT
-  2X2 FLORESCENT
-  STRIP FLORESCENT
-  RECESSED CAN LIGHT
-  CEILING FAN
-  EMERGENCY WALL PACK
-  TRACK LIGHTING
-  STEP LIGHT
-  COVE LIGHT

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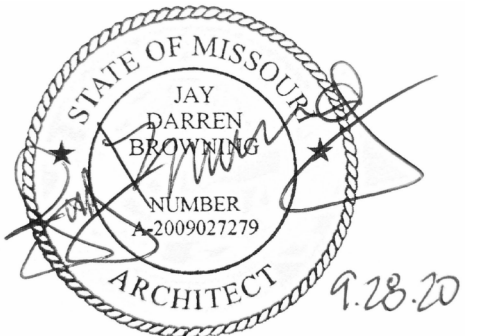
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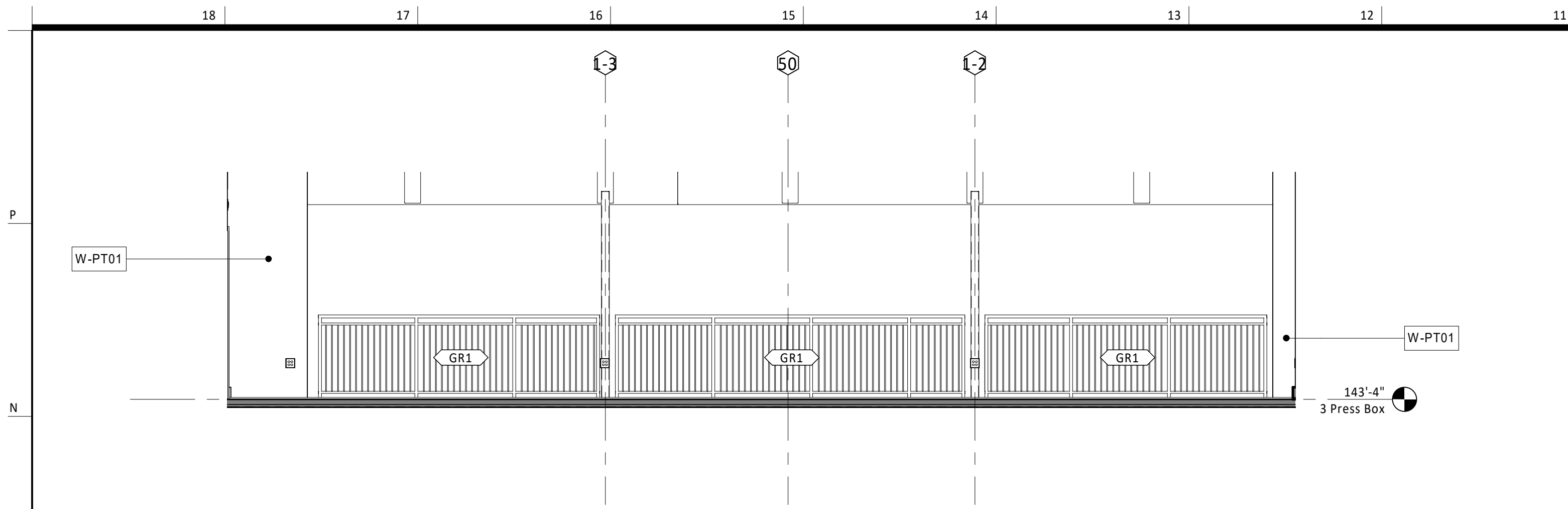
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DATE: September 28, 2020

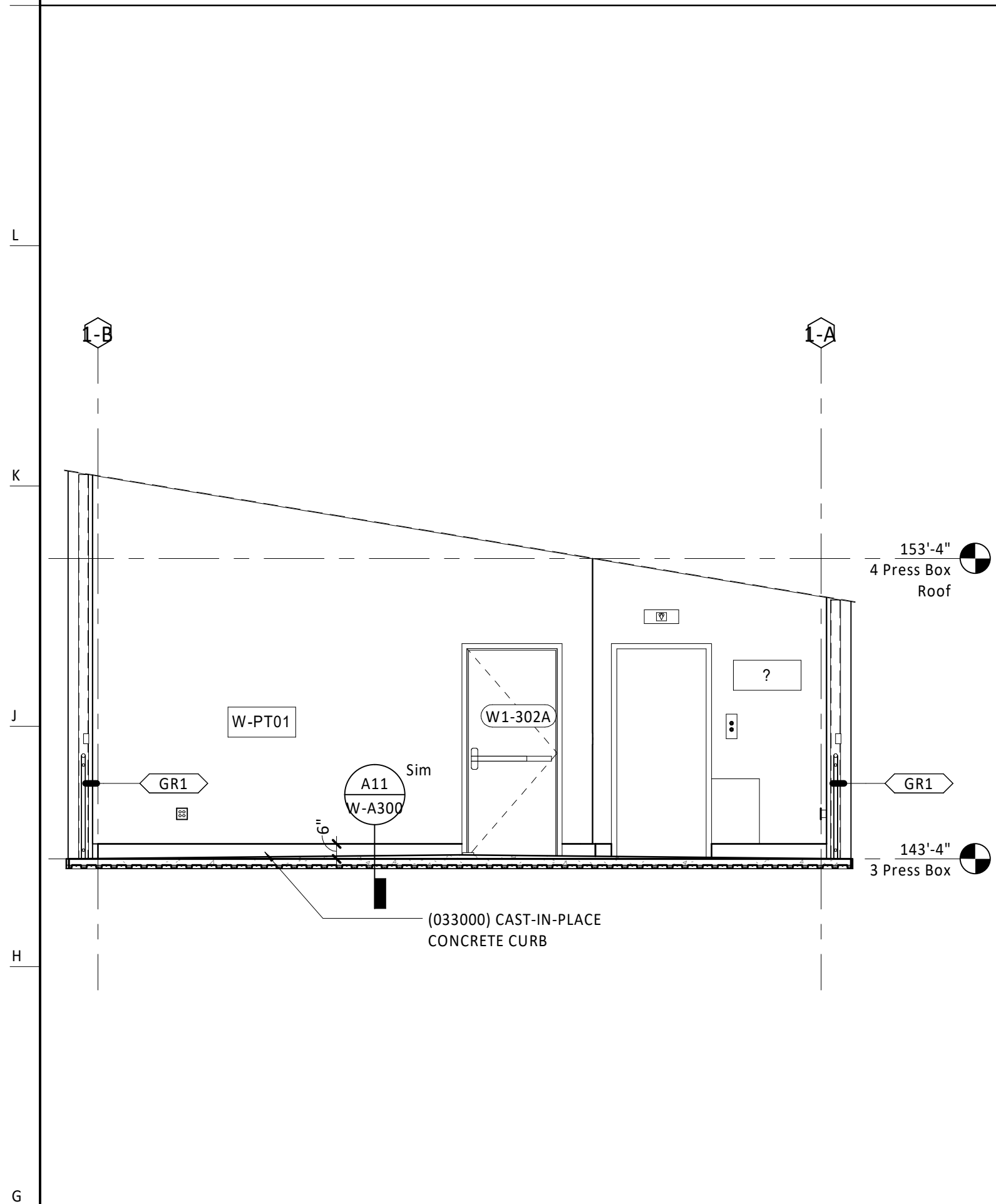
Press Box - Reflected
Ceiling Plans

W-A112

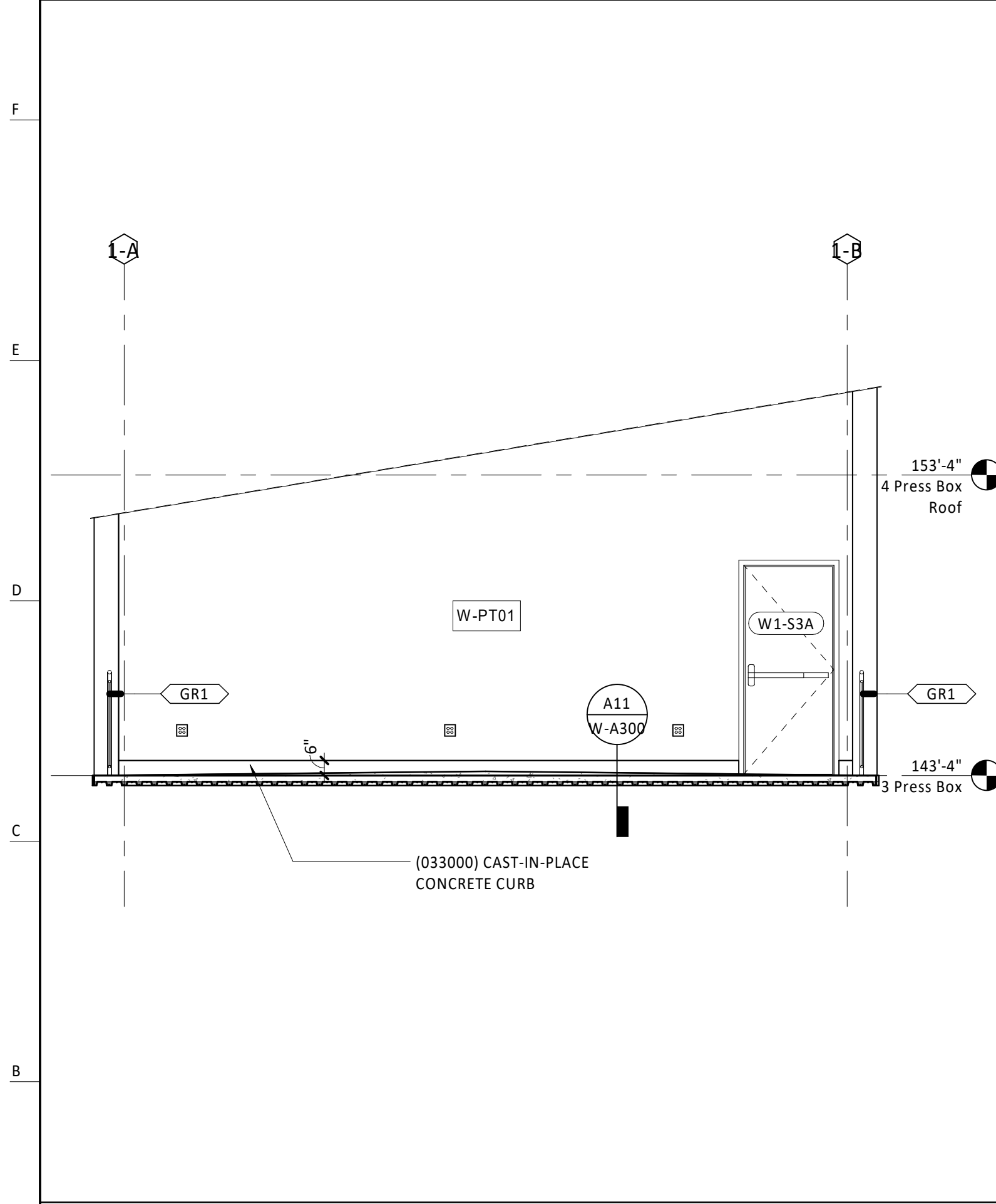
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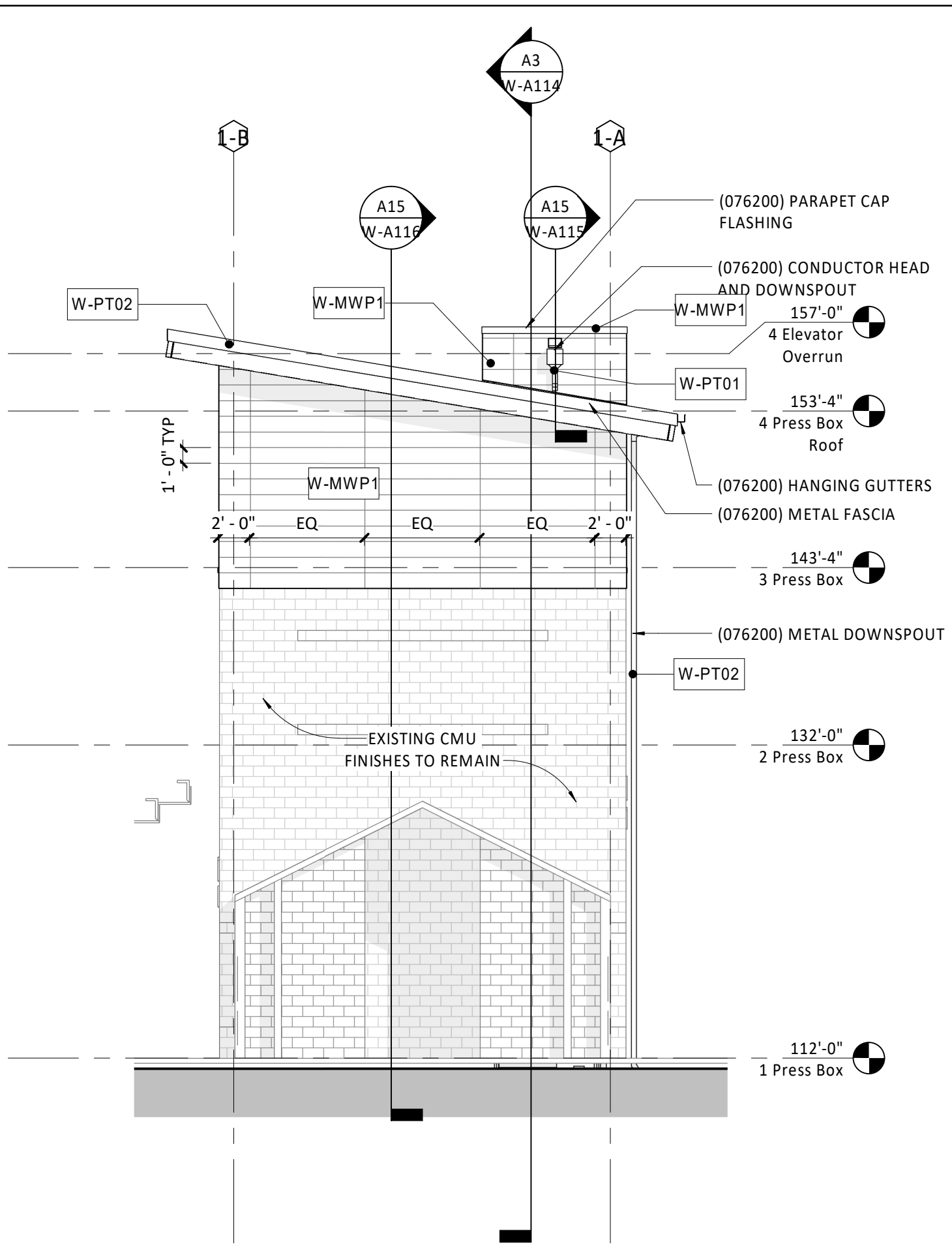
Interior Elevation - Video Deck West **M11**
1/4" = 1'-0"



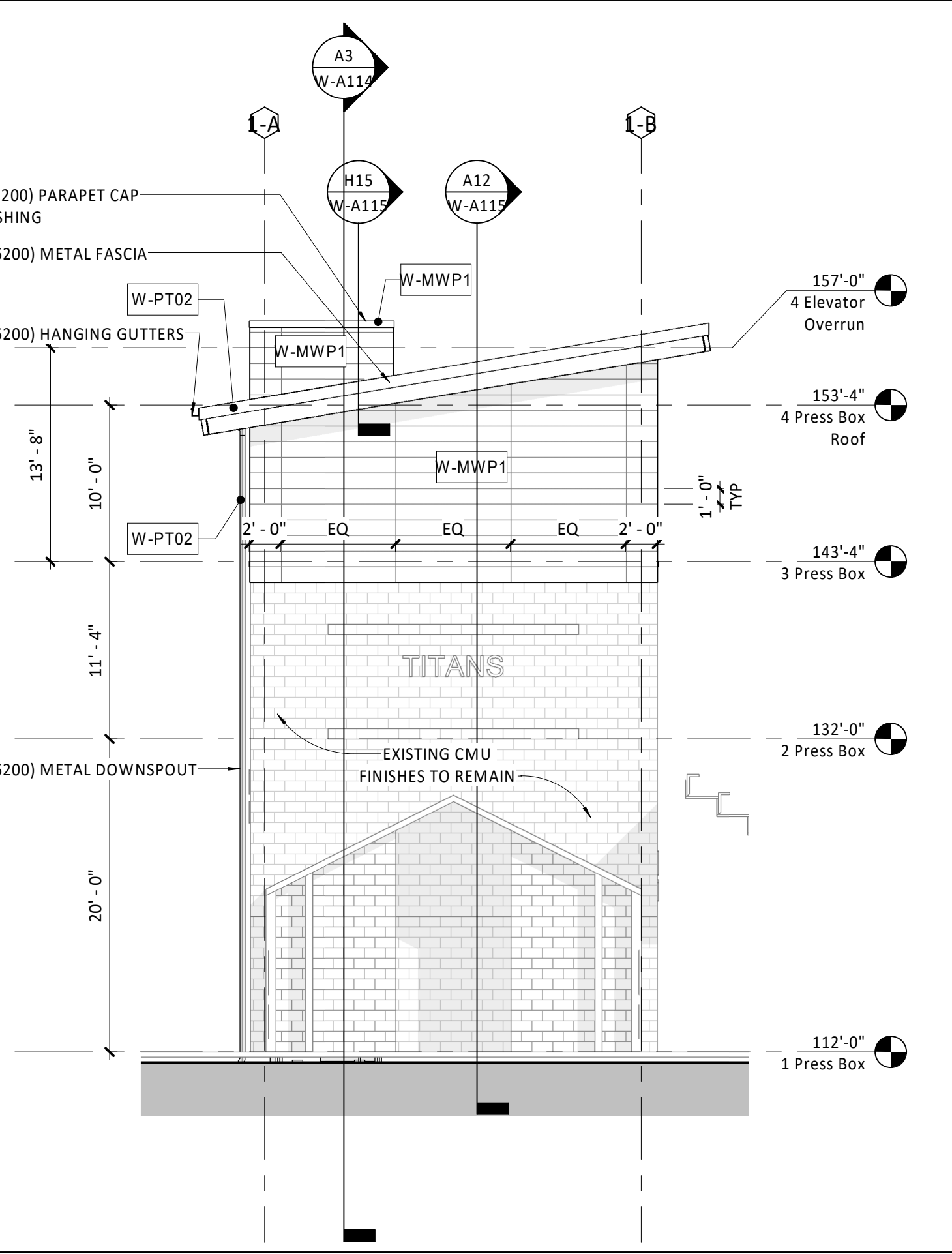
Interior Elevation - Video Deck South **G15**
1/4" = 1'-0"



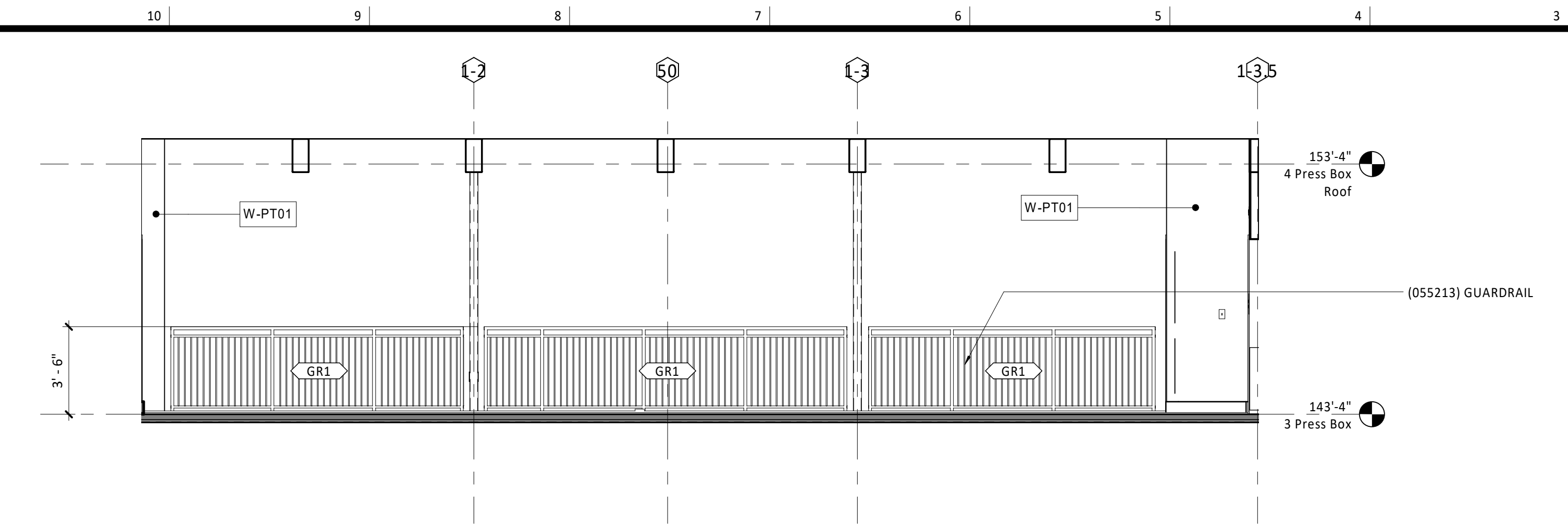
Interior Elevation - Video Deck North **A15**
1/4" = 1'-0"



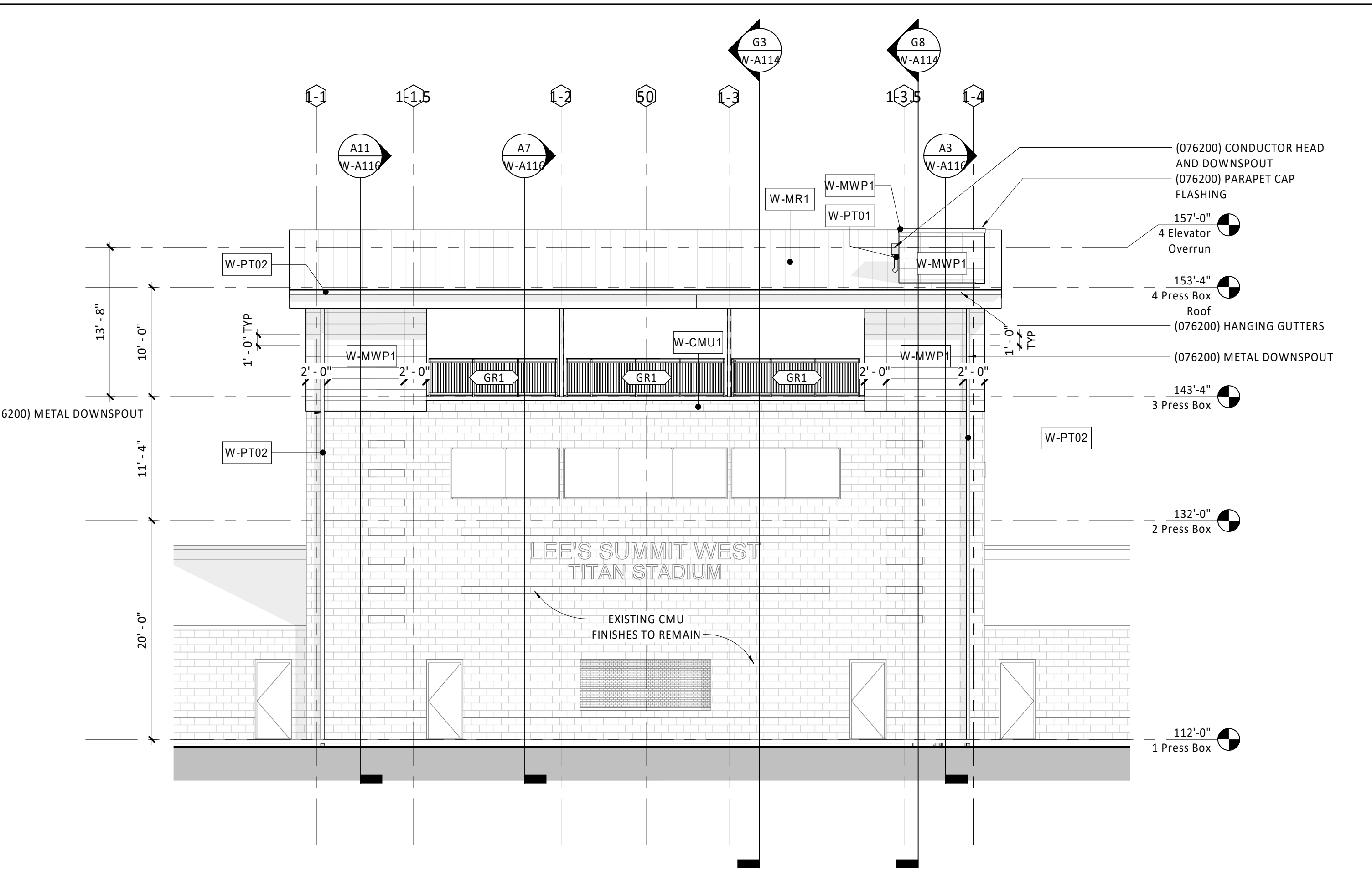
North Elevation - Press Box **G11**
1/8" = 1'-0"



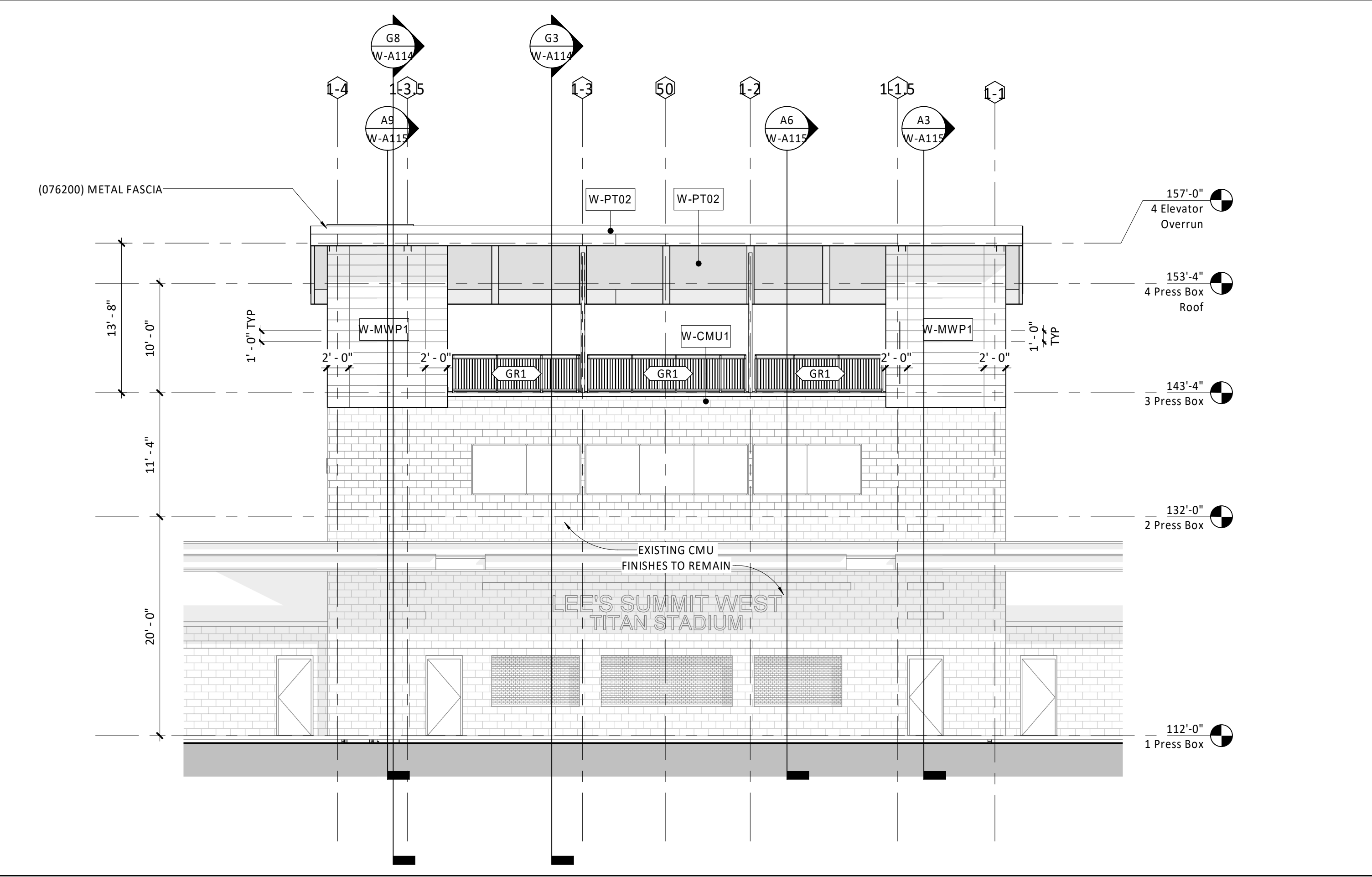
South Elevation - Press Box **A11**
1/8" = 1'-0"



Interior Elevation - Video Deck East **M3**
1/4" = 1'-0"



West Elevation - Press Box **G3**
1/8" = 1'-0"



East Elevation - Press Box **A3**
1/8" = 1'-0"

- General Notes (Exterior Elevations):
1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS
 2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

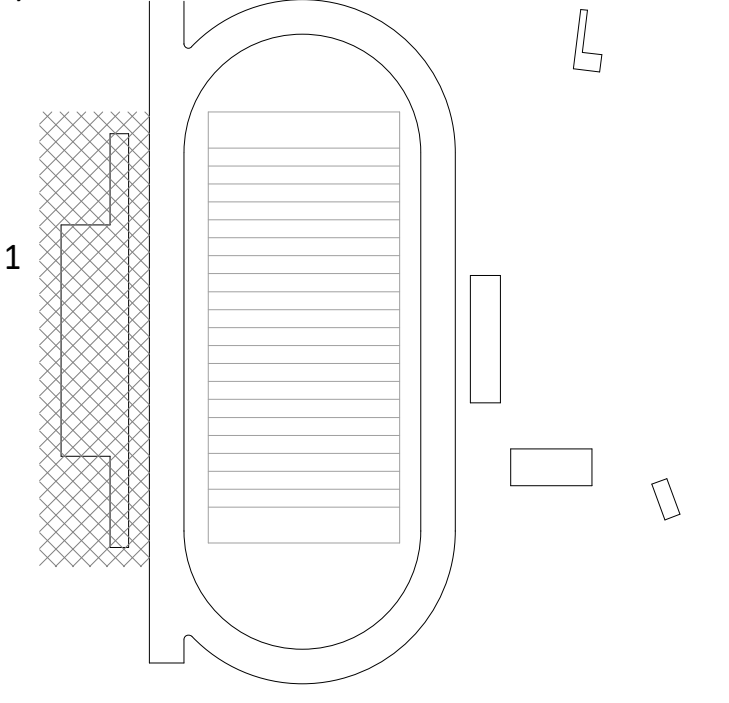
Finish Legend - Exterior

MARK	MODEL
042000 CONCRETE MASONRY UNITS	
W-CMU1	MESASTONE - LANDER'S BAY
W-CMU2	ASTRA-GLAZE-SW - COSMIC BLUE
074113 STANDING SEAM METAL ROOF	
W-MR1	SNAP-CLAD - CITYSCAPE
074213 ALUMINUM COMPOSITE WALL PANEL	
W-MWP1	PAC-3000 RS COMPOSITE WALL PANEL - AWARD BLUE
099113 EXTERIOR PAINT	
W-PT01	SW 6804 DIGNITY BLUE
W-PT02	SW 7073 NETWORK GRAY
W-PT03	SW 7024 FUNCTIONAL GRAY

General Notes (Interior Elevations):

1. REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES
2. REFER TO PROJECT STANDARDS FOR INSTALLATION INFORMATION FOR ACCESSORIES, TOILET FIXTURES, ETC.
3. REFER TO PROJECT STANDARDS FOR DEVICES FOR TYPICAL INSTALLATION INFORMATION.
4. AT GYP SOFFIT CONTROL JOINTS, CONTINUE CONTROL JOINT UP BOTH VERTICAL FACES OF SOFFIT.

Key Plan:



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Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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816.931.6655 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
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816.531.4144

civil engineer:
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913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
913.742.5000

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Jay Darren Browning Date: 09/28/2020
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Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Press Box - Elevations

W-A113

BID SET

General Notes (Building Sections):

1. BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.

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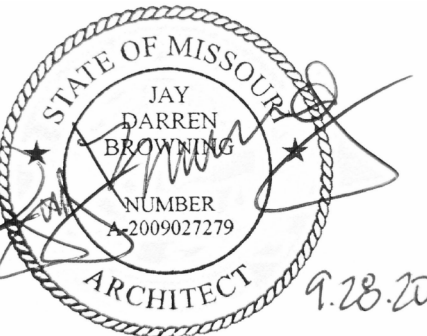
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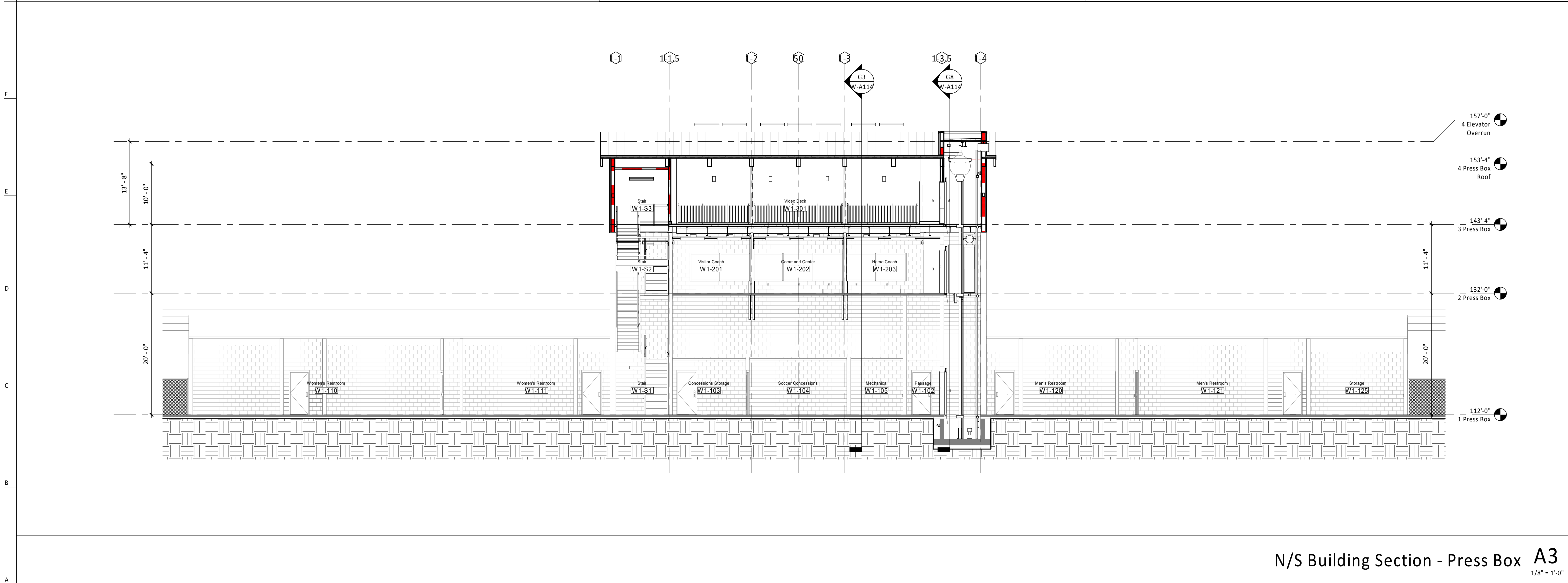
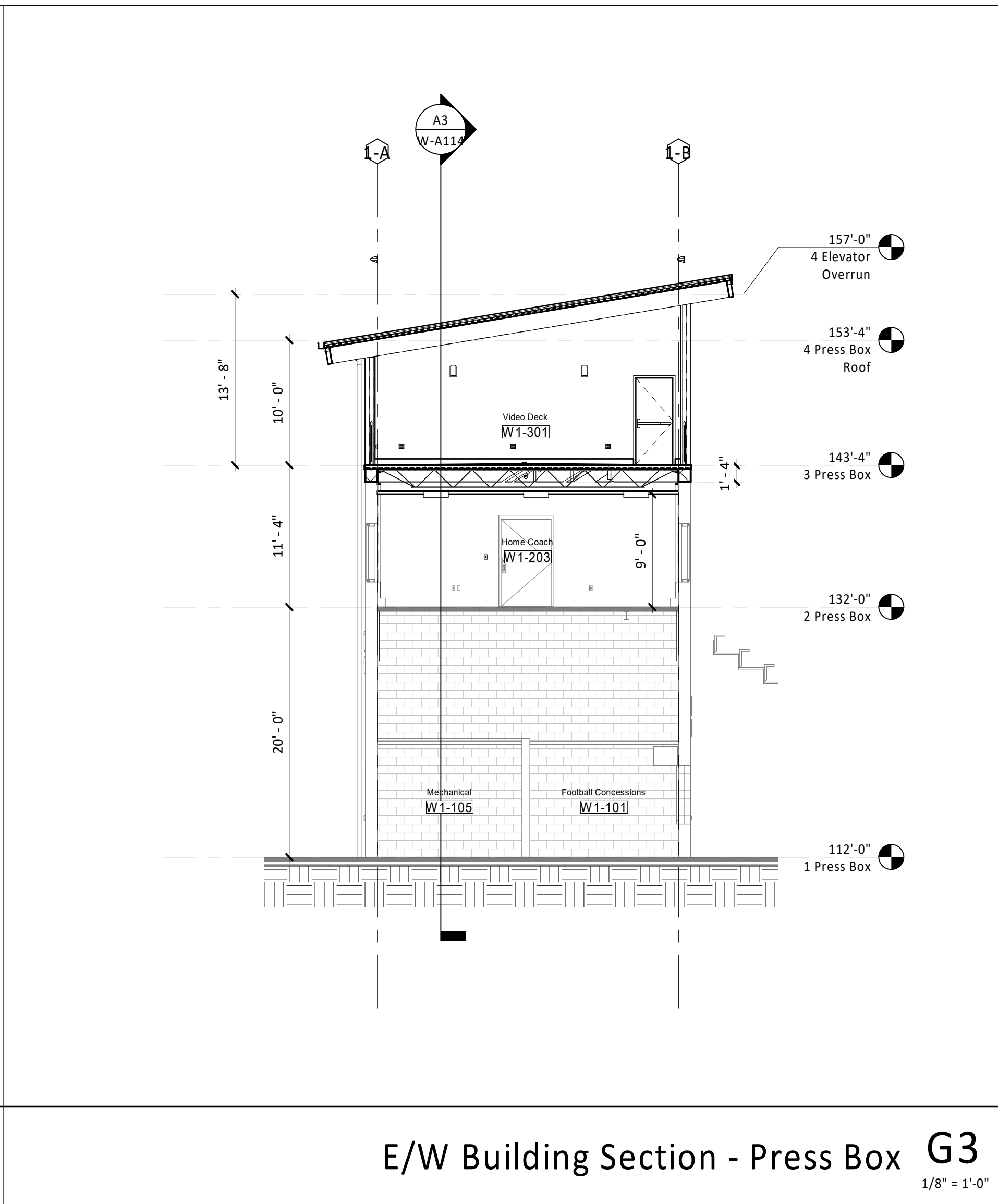
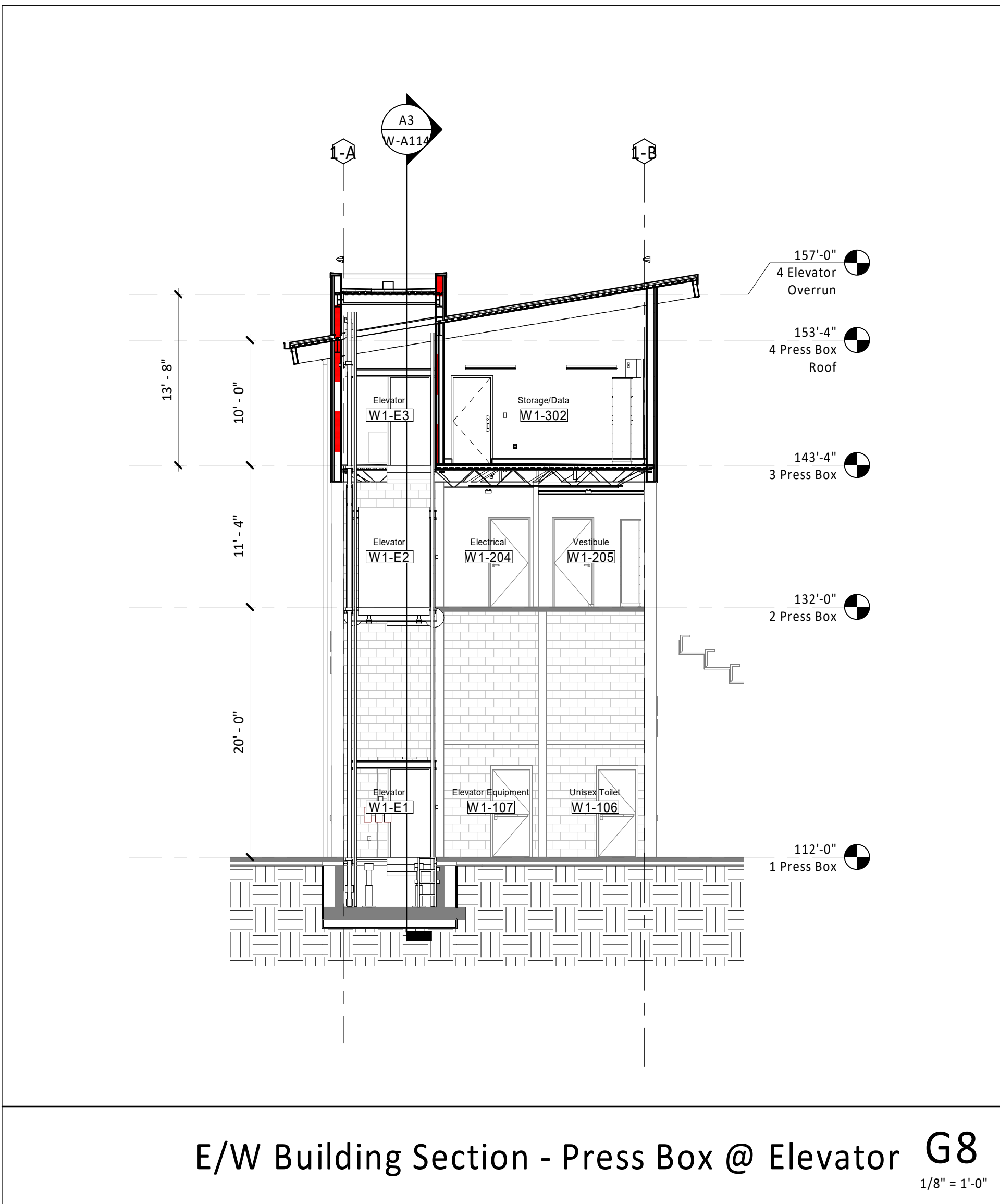
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PROJECT NO: 0119-0101
DATE: September 28, 2020

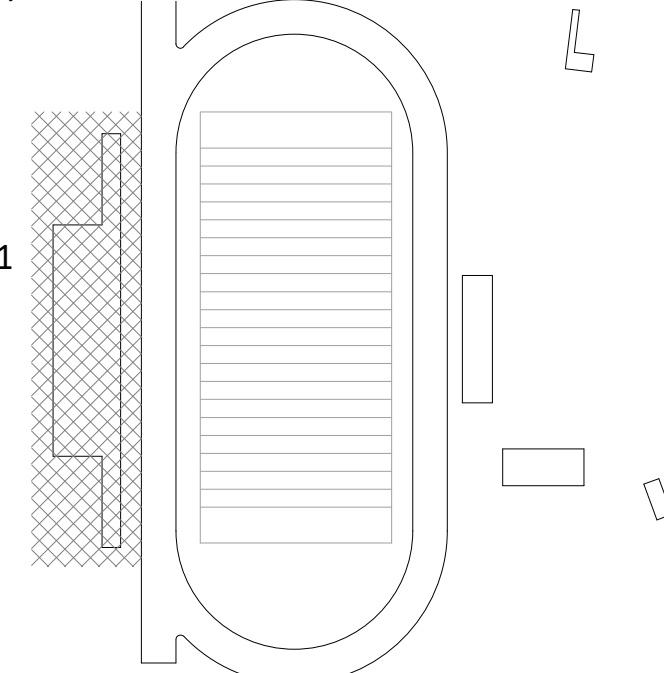
Press Box - Building
Sections

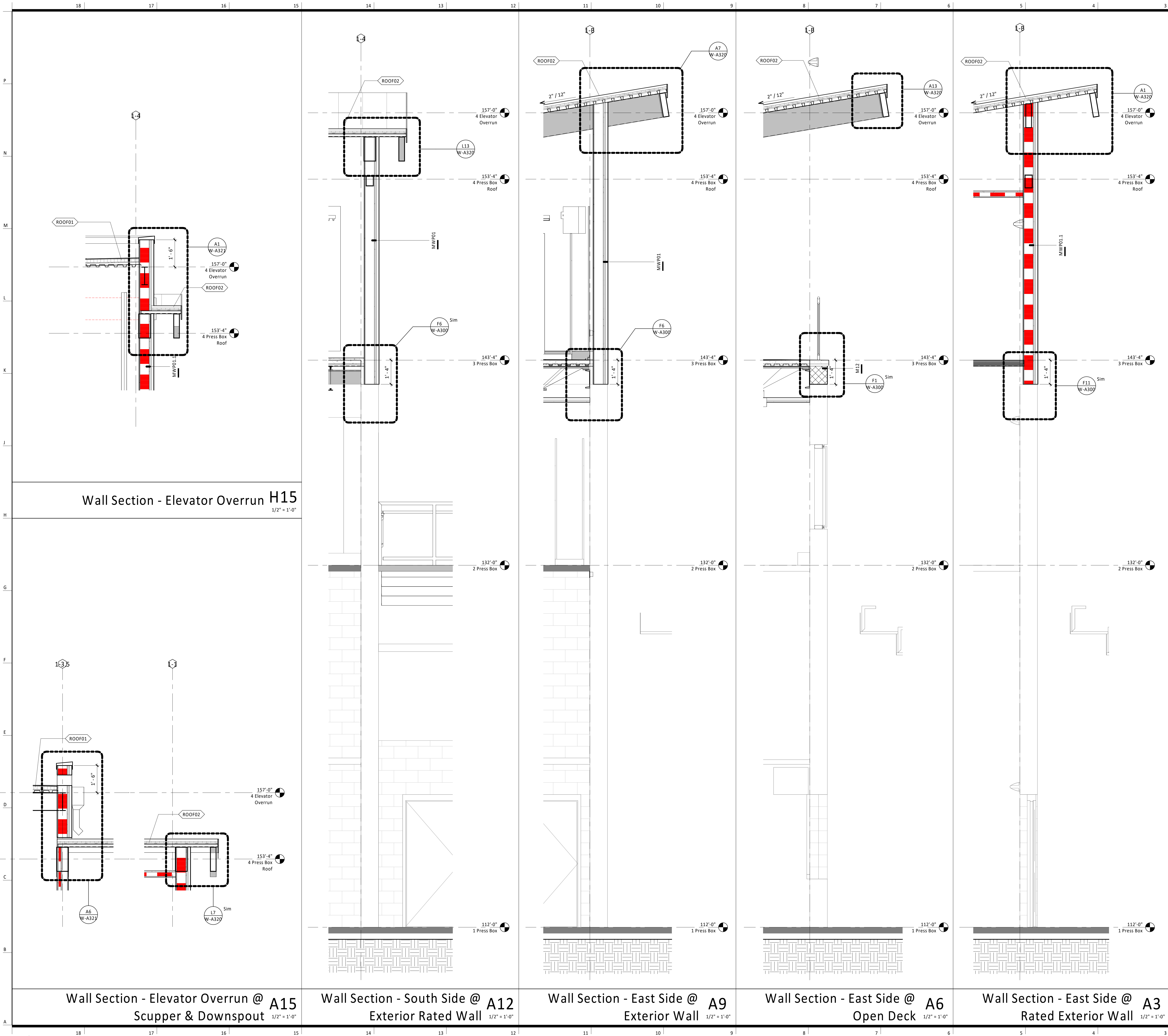
W-A114

BID SET



Key Plan:





- General Notes (Wall Sections):
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
 - ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATER-TIGHT.
 - ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE
 - PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

Wall Legend:

RE: Exterior Elevations for exterior fpath #:

RE: Sheet W-A020 for wall assembly types & details

1-Hour: Fire Rated Assembly	
2-Hour: Fire Rated Assembly	
Existing CMU	
New CMU (Field Color)	
New CMU (Accent Color)	

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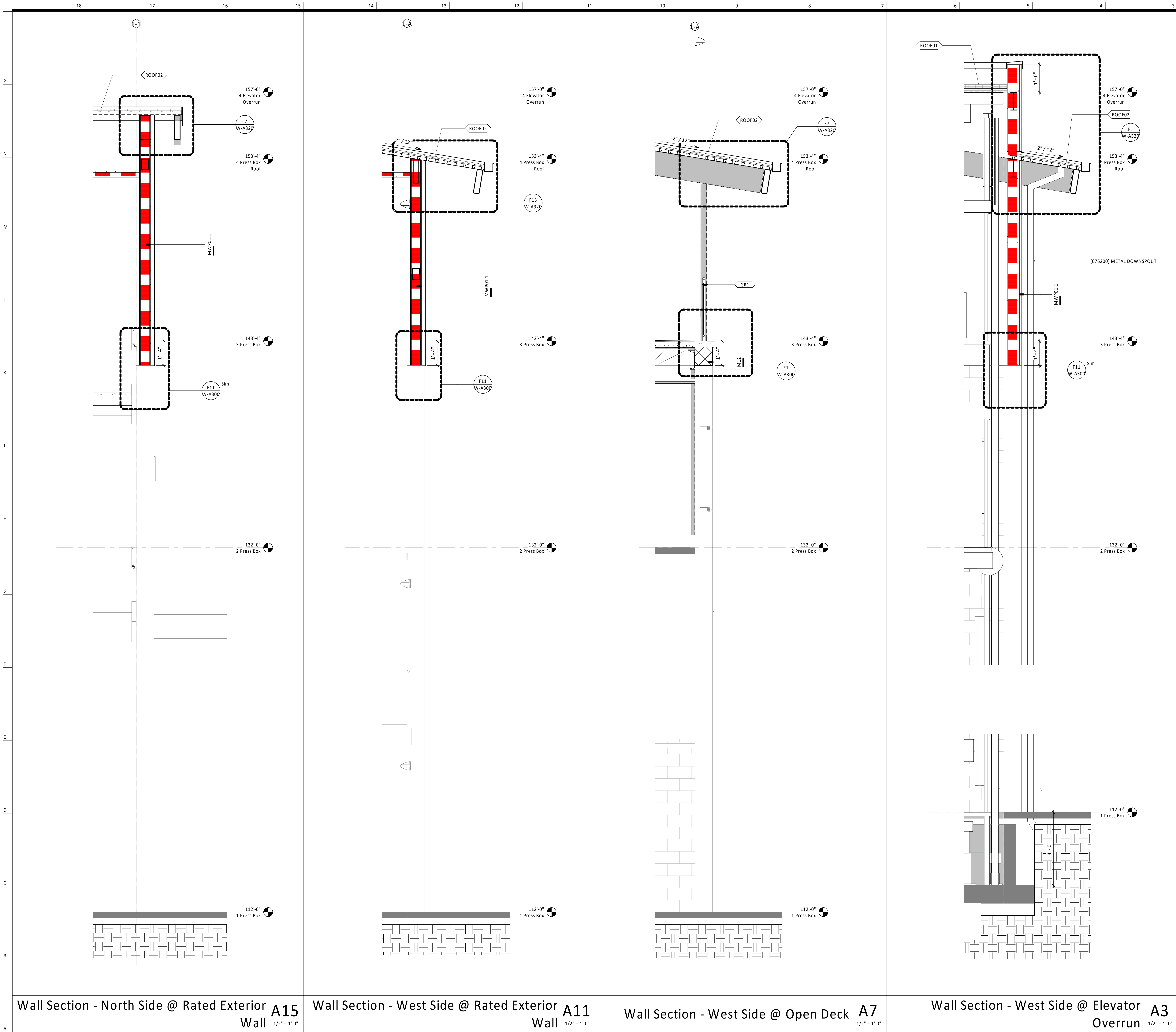
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Press Box - Wall
Sections

W-A115

BID SET



General Notes (Wall Sections):

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
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Wall Legend:

RE: Exterior Elevations for exterior Path #:
RE: Sheet W-A020 for wall assembly types & details

1-Hour: Fire Rated Assembly	[Red and White Hatched Pattern]
2-Hour: Fire Rated Assembly	[Blue and White Hatched Pattern]
Existing CMU	[Grey Hatched Pattern]
New CMU (Field Color)	[Cross Hatched Pattern]
New CMU (Accent Color)	[Diagonal Hatched Pattern]

**Lee's Summit R7 District
Athletics Facilities**

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Lee's Summit, MO 64082

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DATE: September 28, 2020

Press Box - Wall
Sections

W-A116

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

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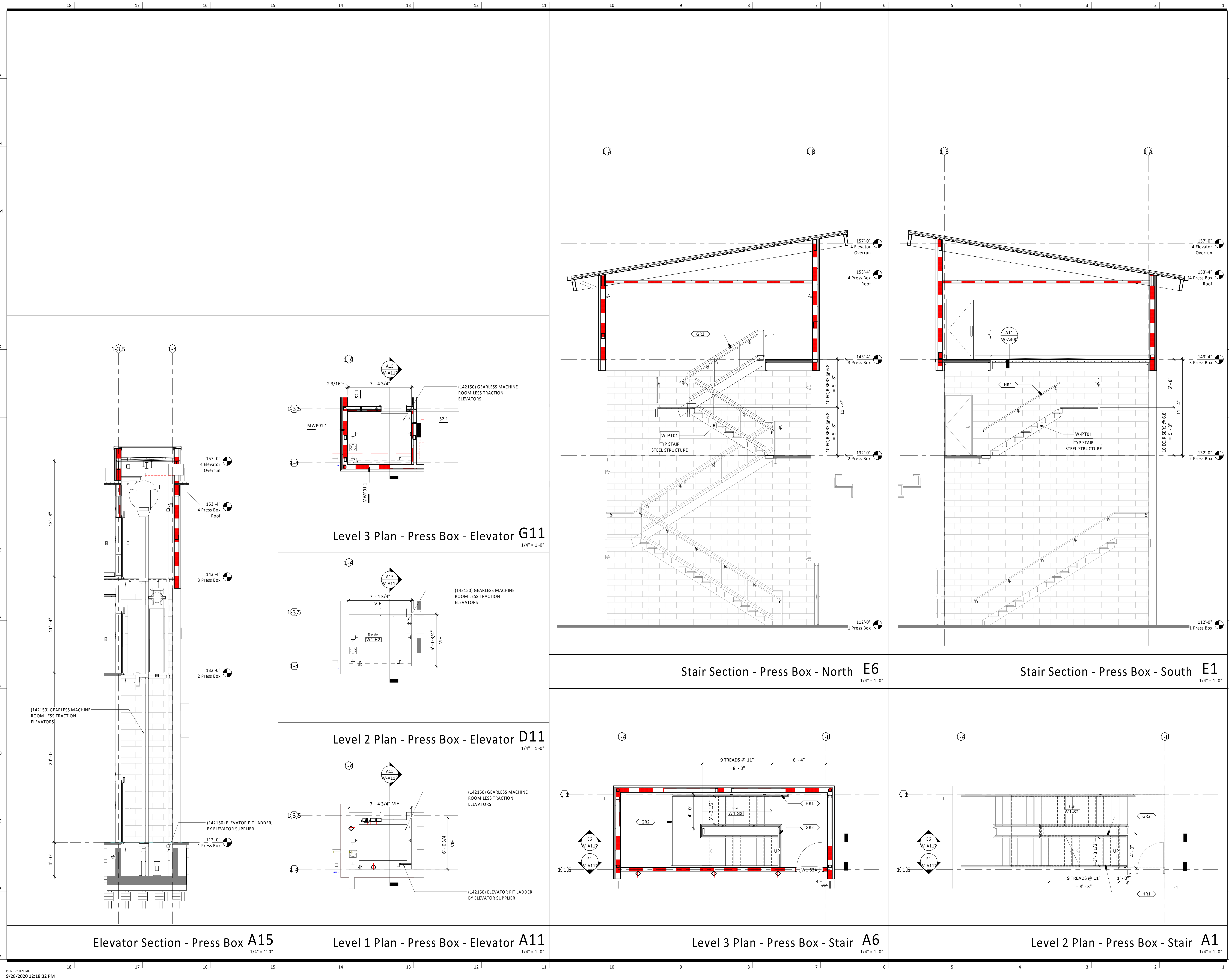
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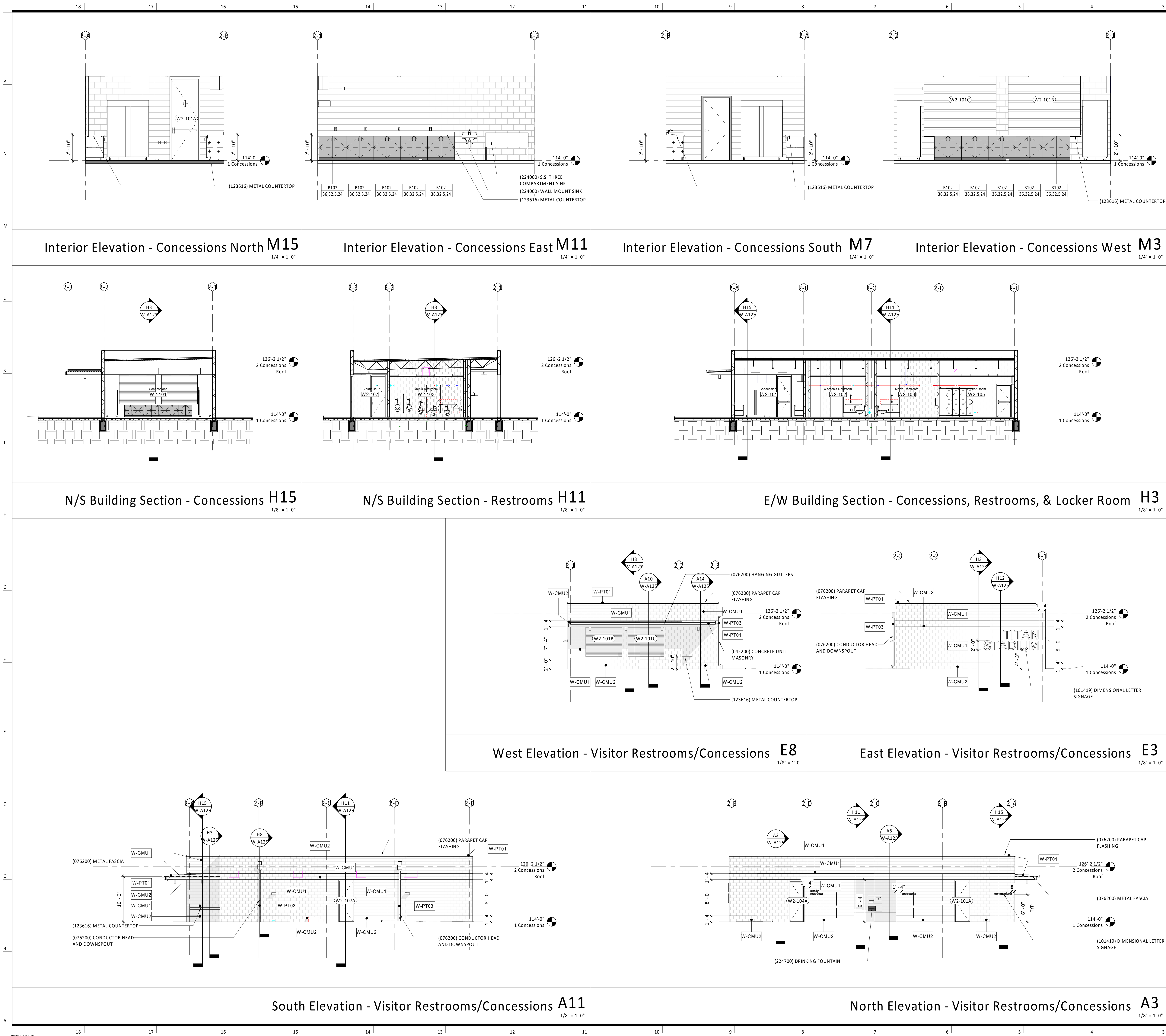
PROJECT NO: 0119-0101
DATE: September 28, 2020

Press Box - Vertical
Circulation Drawings

W-A117

BID SET





General Notes (Exterior Elevations):

- MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS
- COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

General Notes (Building Sections):

- BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.

Finish Legend - Exterior	
MARK	MODEL
042000 CONCRETE MASONRY UNITS	
W-CMU1	MESASTONE - LANDER'S BAY
W-CMU2	ASTRA-GLAZE-SW - COSMIC BLUE
074113 STANDING SEAM METAL ROOF	
W-MR1	SNAP-CLAD - CITYSCAPE
074213 ALUMINUM COMPOSITE WALL PANEL	
W-MWP1	PAC-9000 RS COMPOSITE WALL PANEL - AWARD BLUE
099113 EXTERIOR PAINT	
W-PT01	SW 6804 DIGNITY BLUE
W-PT02	SW 7073 NETWORK GRAY
W-PT03	SW 7024 FUNCTIONAL GRAY

General Notes (Interior Elevations):

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- REFER TO PROJECT STANDARDS FOR INSTALLATION INFORMATION FOR ACCESSORIES, TOILET FIXTURES, ETC.
- REFER TO PROJECT STANDARDS FOR DEVICES FOR TYPICAL INSTALLATION INFORMATION.
- AT GYP SOFFIT CONTROL JOINTS, CONTINUE CONTROL JOINT UP BOTH VERTICAL FACES OF SOFFIT.

REVISIONS

Number	DESCRIPTION	DATE
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Key Plan:

PROJECT NO: 0119-0101
DATE: September 28, 2020

Visitor Concessions - Elevations & Building Sections

W-A123

BID SET

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Athletics Facilities**

Lee's Summit West High School
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Lee's Summit, MO 64082

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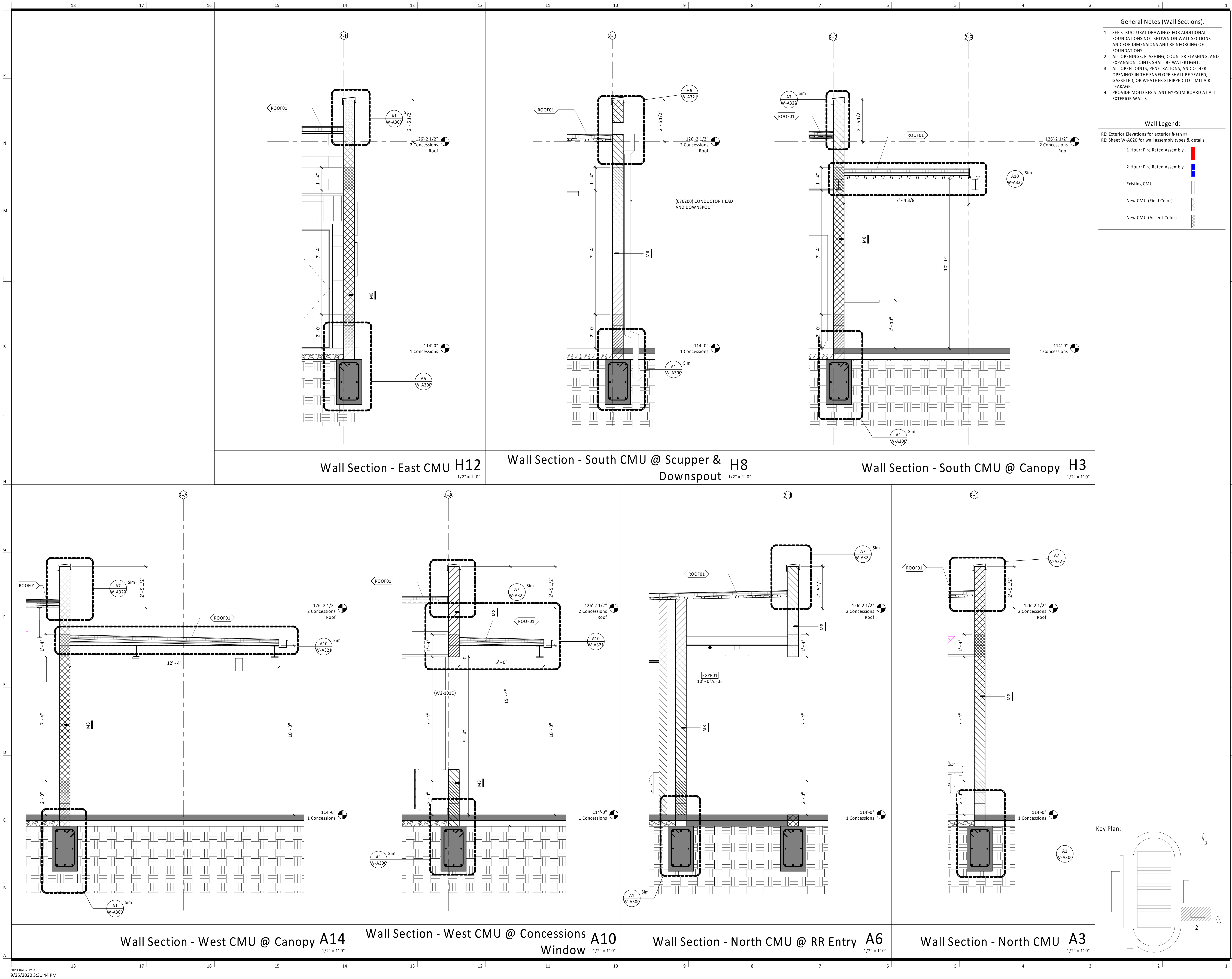
civil engineer:
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913.485.0318

mechanical/electrical engineer:
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Jay Darren Browning Date: 09/28/2020
Architect License No. A-2009027279



General Notes (Wall Sections):

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
- ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATERTIGHT.
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- PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

Wall Legend:

RE: Exterior Elevations for exterior Path #:
RE: Sheet W-A020 for wall assembly types & details

1-Hour: Fire Rated Assembly

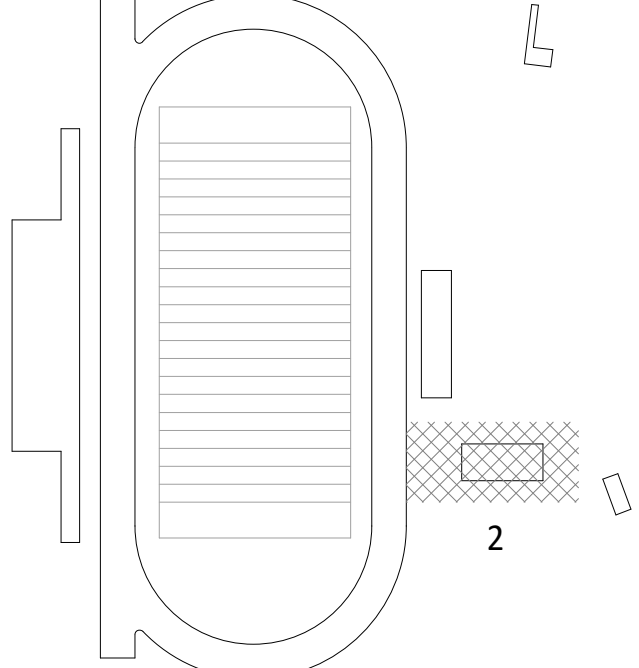
2-Hour: Fire Rated Assembly

Existing CMU

New CMU (Field Color)

New CMU (Accent Color)

Key Plan:



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Lee's Summit R7 District Athletics Facilities

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Lee's Summit, MO 64082

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STATE OF MISSOURI
JAY DARREN BROWNING
ARCHITECT
0009027279
9.28.20

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Jay Darren Browning
Architect
Date: 09/28/2020
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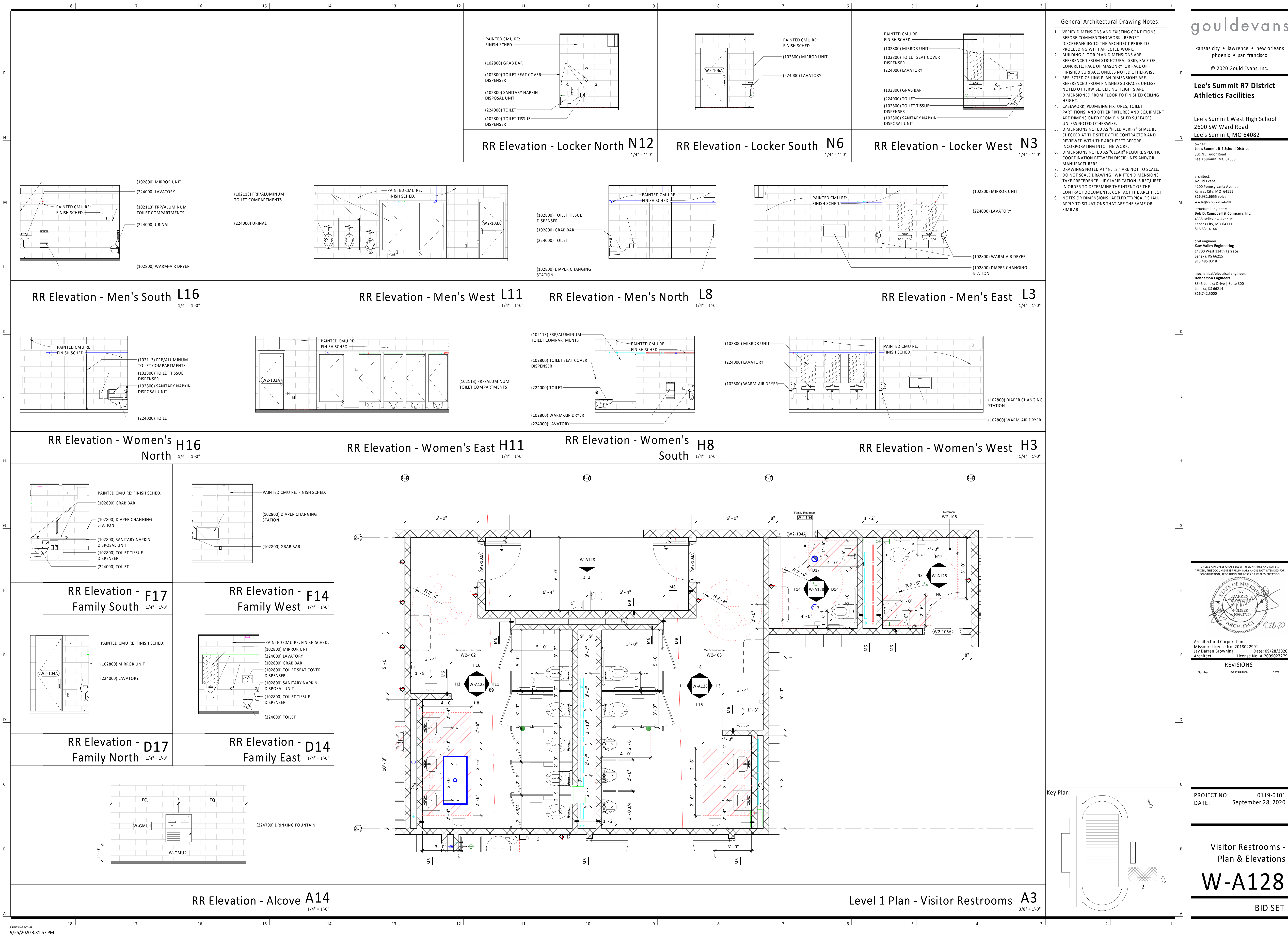
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Visitor Concessions - Wall Sections

W-A125

BID SET



General Architectural Drawing Notes:

- VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
- BUILDING FLOOR PLAN DIMENSIONS ARE REFERENCED FROM STRUCTURAL GRID, FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
- REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING HEIGHT.
- CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
- DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
- DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.
- DRAWINGS NOTED AT "N.T.S." ARE NOT TO SCALE.
- DO NOT SCALE DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
- NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.

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Jay Darren Browning, Architect
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REVISIONS

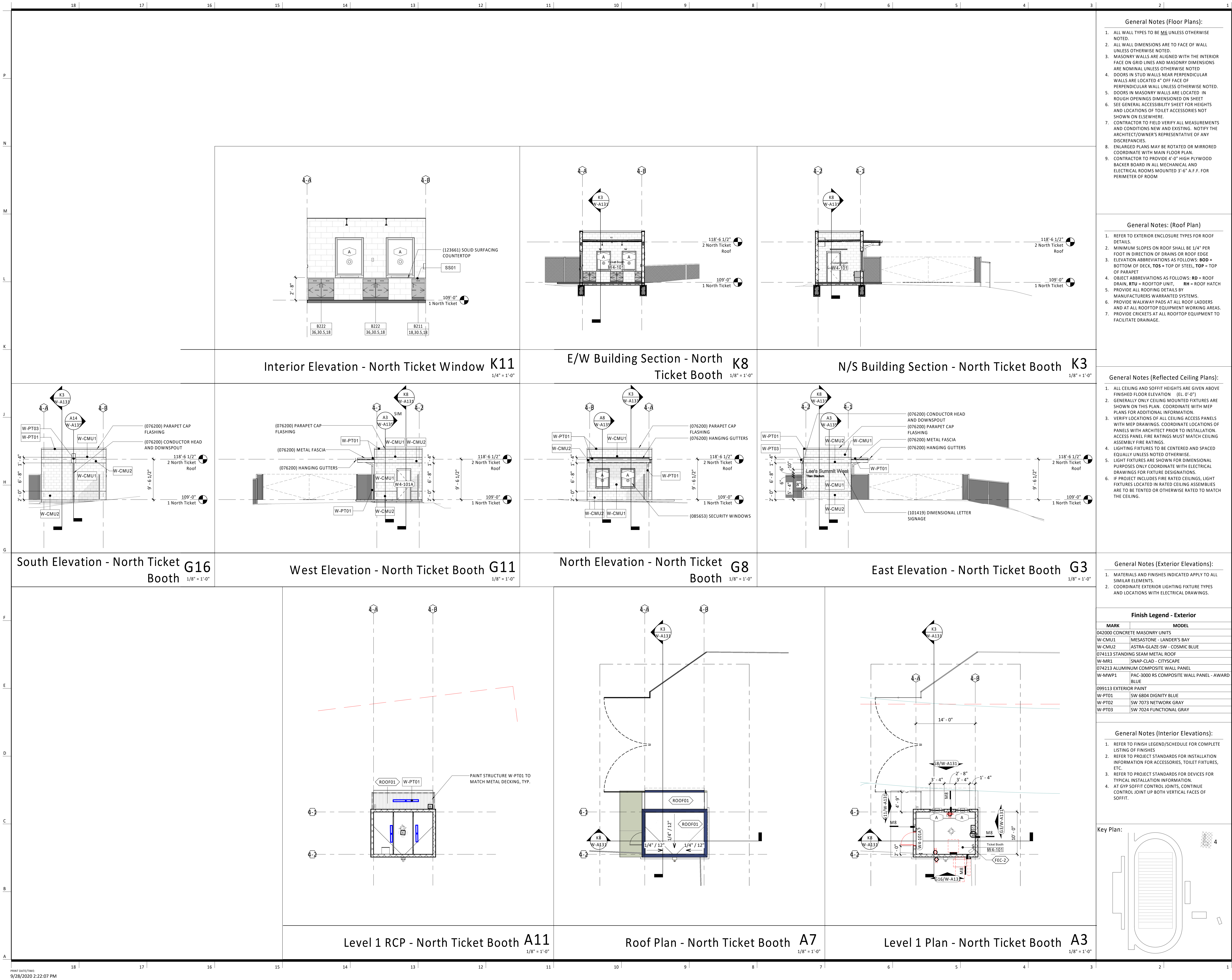
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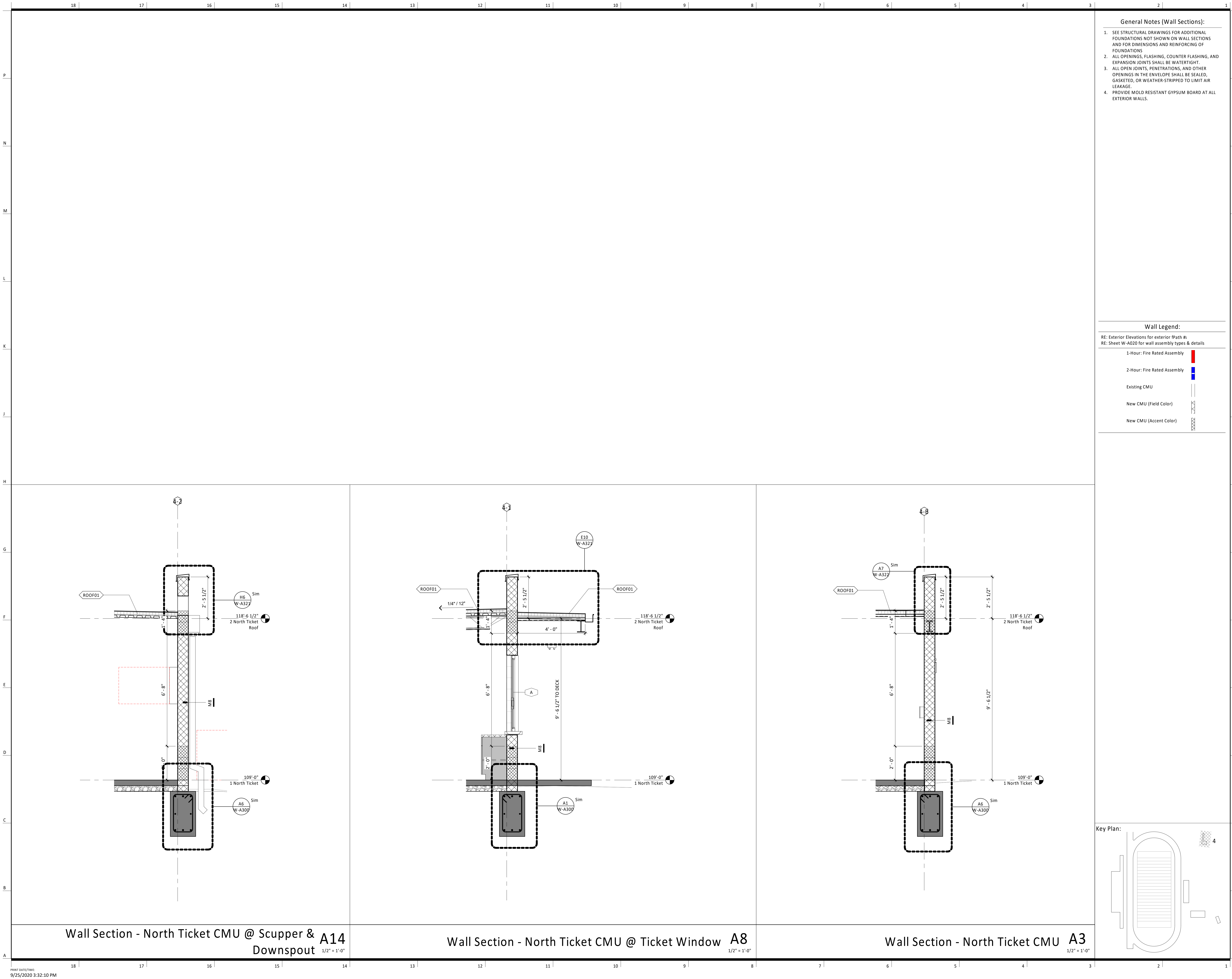
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DATE: September 28, 2020

Visitor Restrooms -
Plan & Elevations

W-A128

BID SET



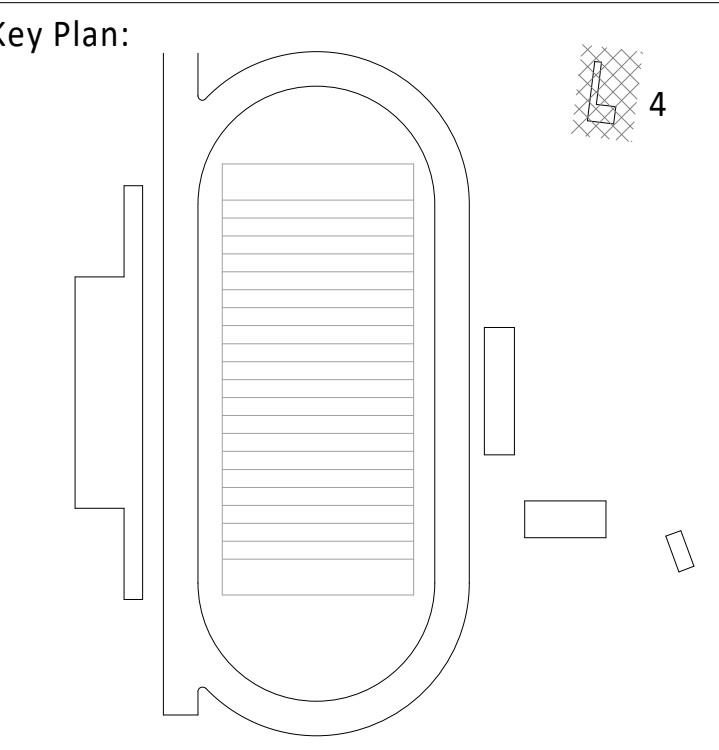


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Wall Legend:

RE: Exterior Elevations for exterior (Path #:
RE: Sheet W-A020 for wall assembly types & details

1-Hour: Fire Rated Assembly	
2-Hour: Fire Rated Assembly	
Existing CMU	
New CMU (Field Color)	
New CMU (Accent Color)	



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**JAY
BROWNING
ARCHITECT**
9.28.20

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Jay Darren Browning
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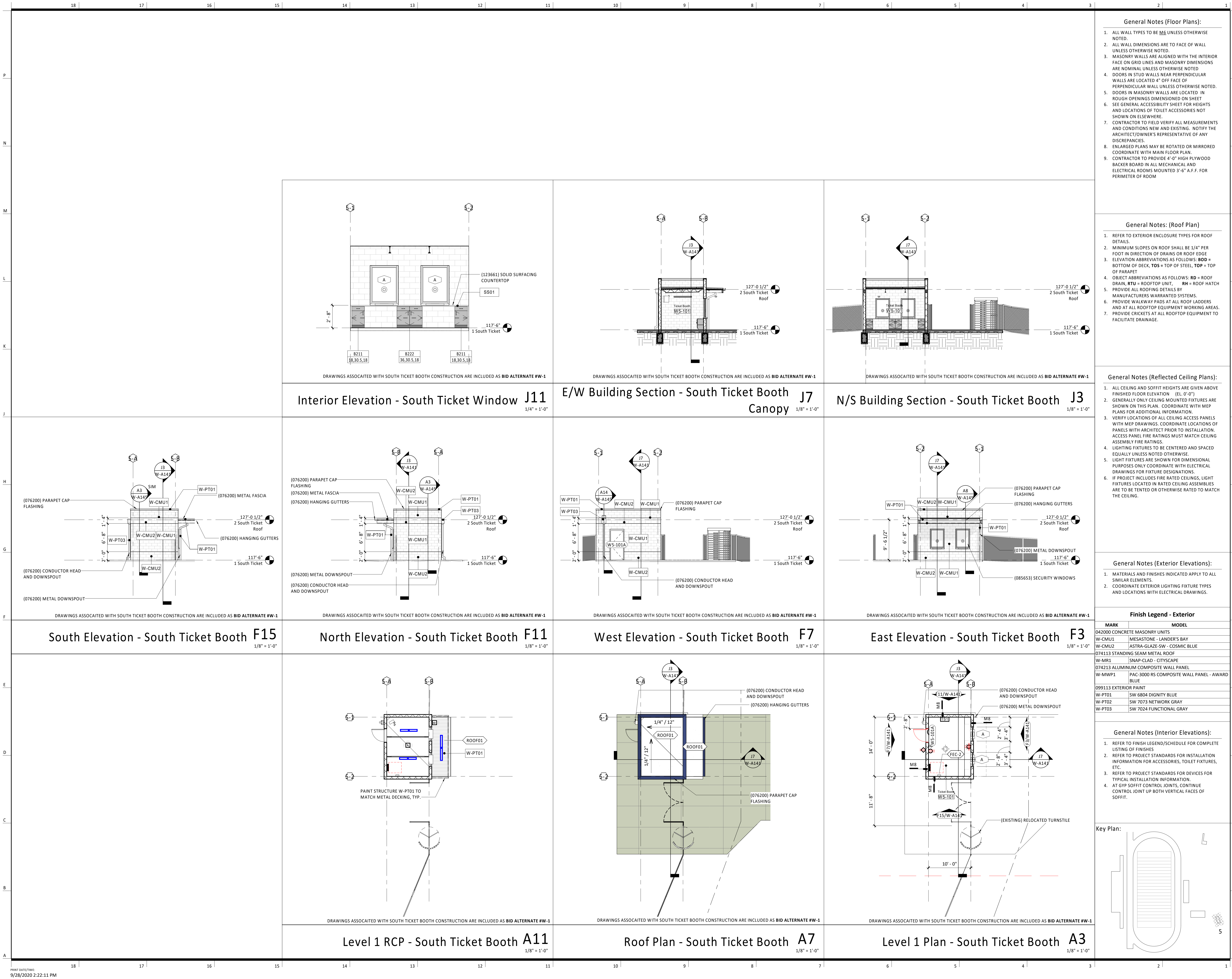
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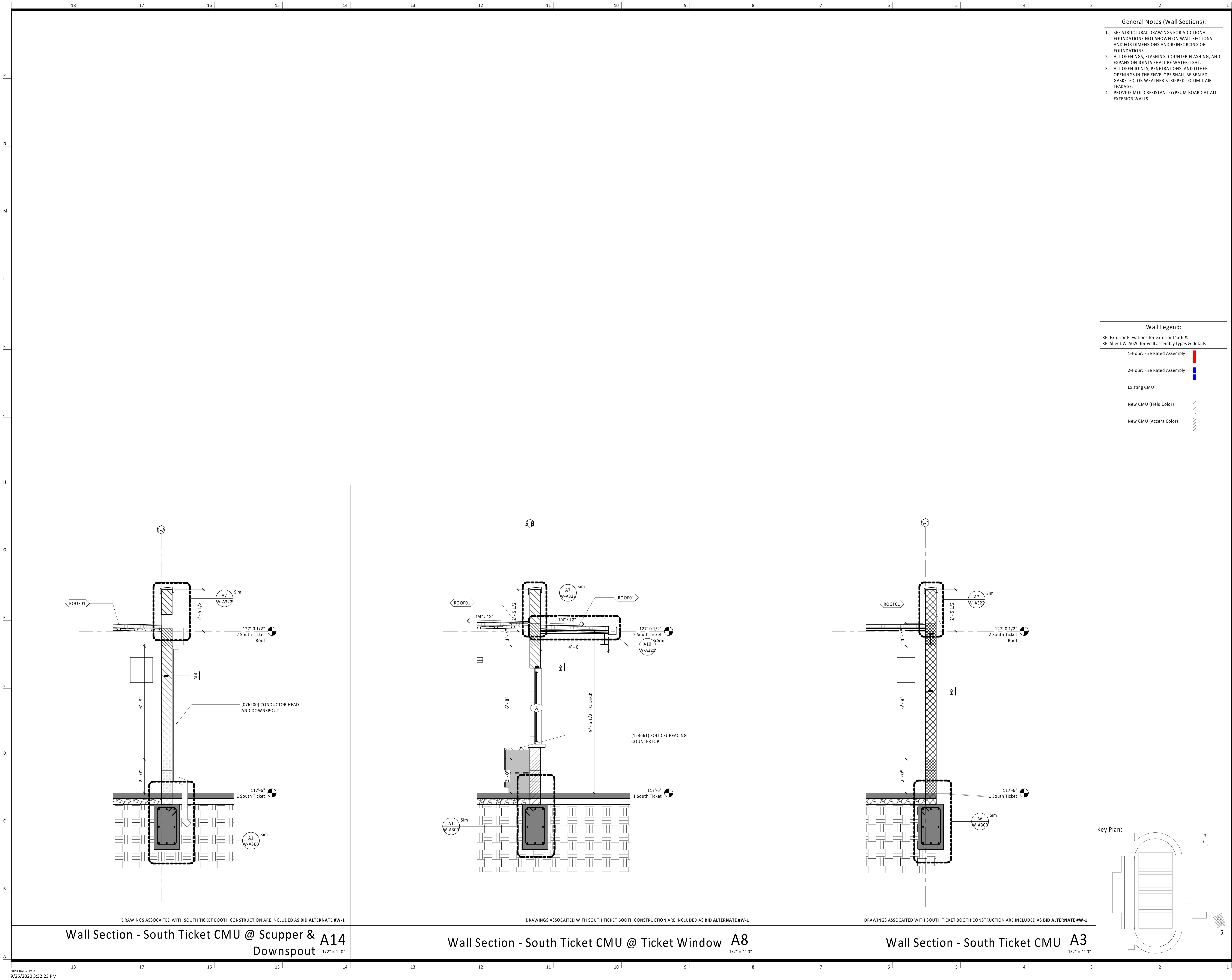
PROJECT NO: 0119-0101
DATE: September 28, 2020

**North Ticket Booth -
Wall Sections**

W-A135

BID SET





- General Notes (Wall Sections):
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
 - ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATER TIGHT.
 - ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE
 - PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

Wall Legend:	
RE: Exterior Elevations for exterior fpath #: RE: Sheet W-A020 for wall assembly types & details	
1-Hour: Fire Rated Assembly	
2-Hour: Fire Rated Assembly	
Existing CMU	
New CMU (Field Color)	
New CMU (Accent Color)	

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Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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civil engineer:
Kaw Valley Engineering
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mechanical/electrical engineer:
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PROJECT NO: 0119-0101
DATE: September 28, 2020

(BID ALT #W-1) South
Ticket Booth - Wall
Sections

W-A145

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

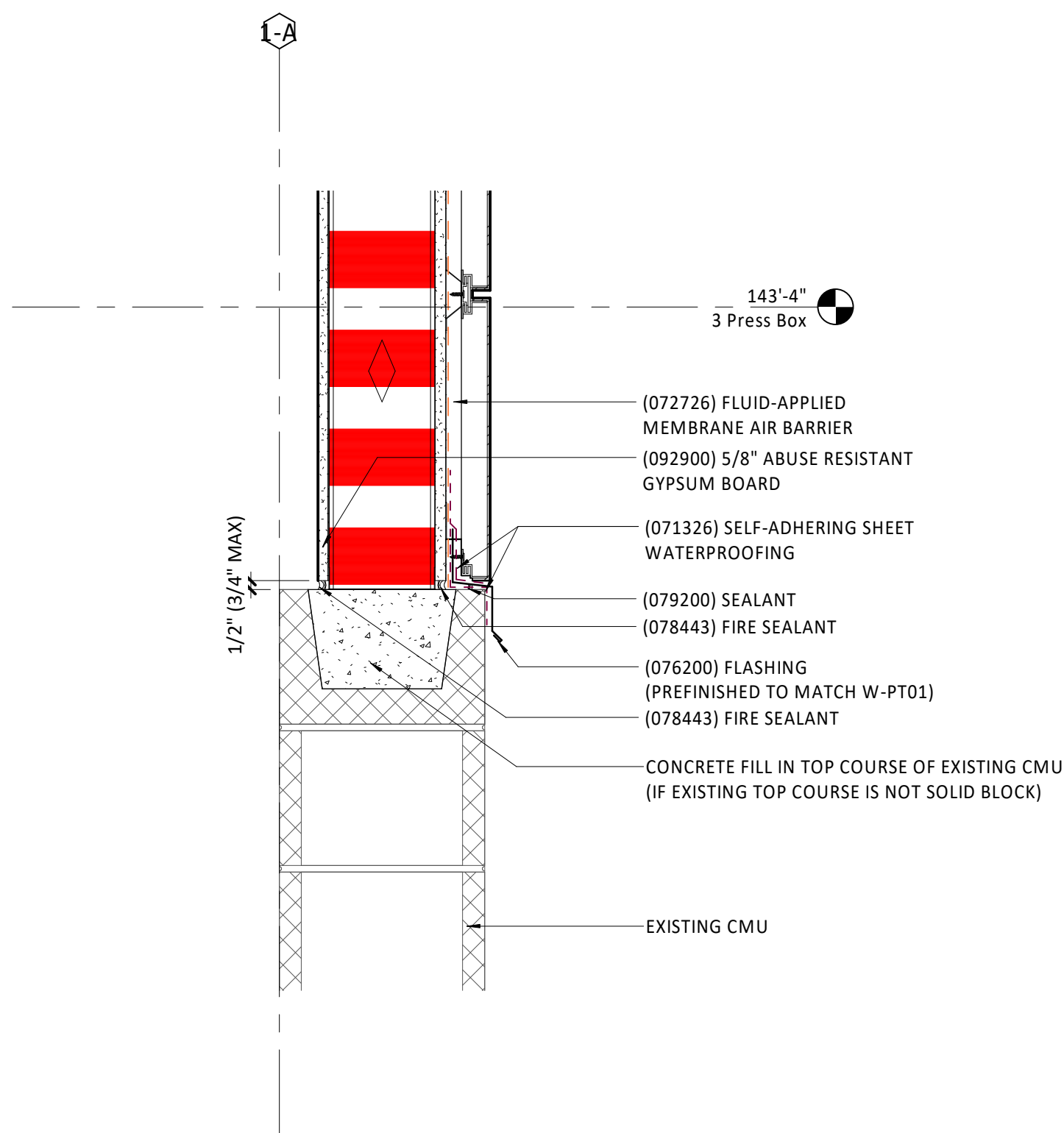
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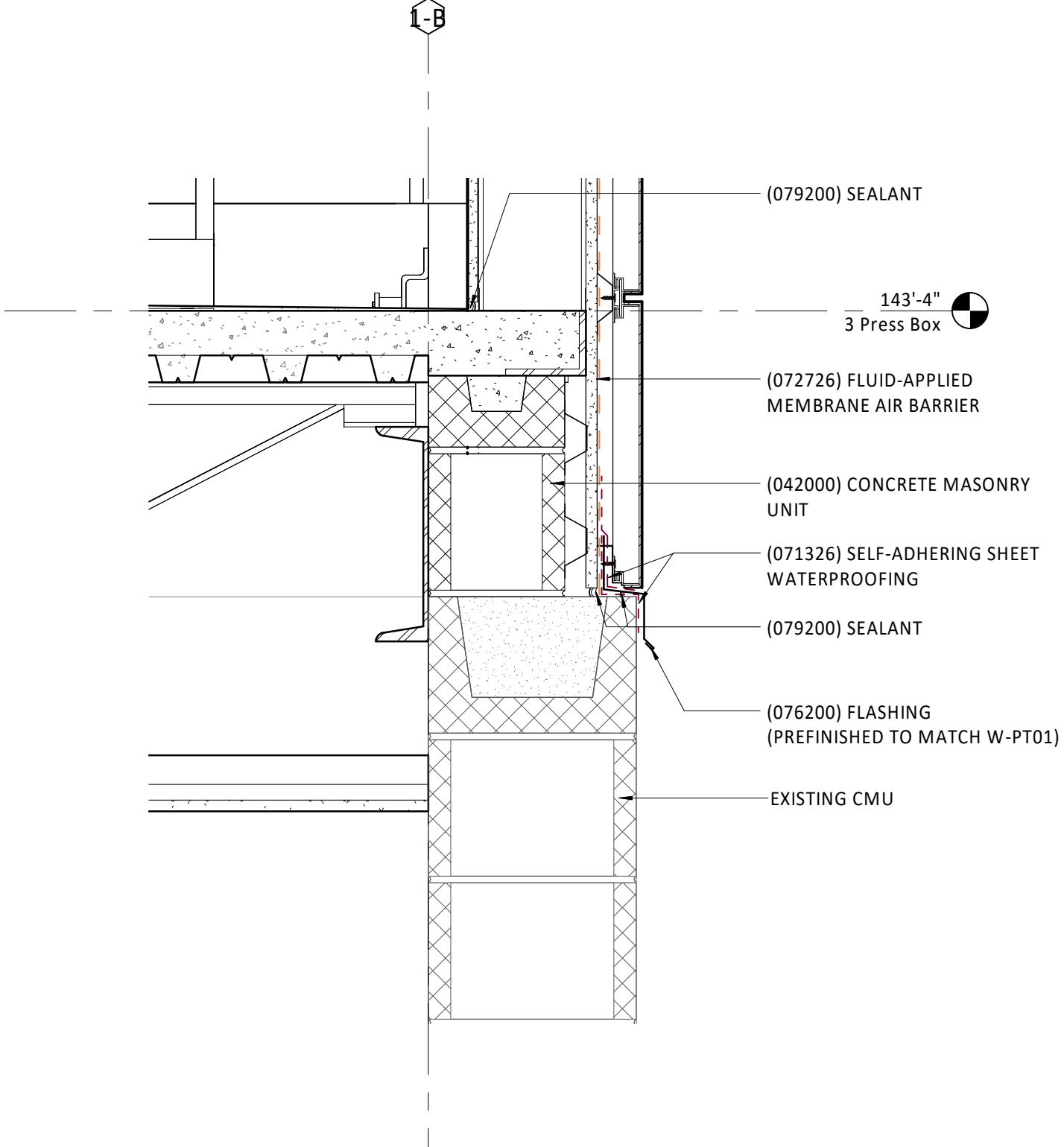
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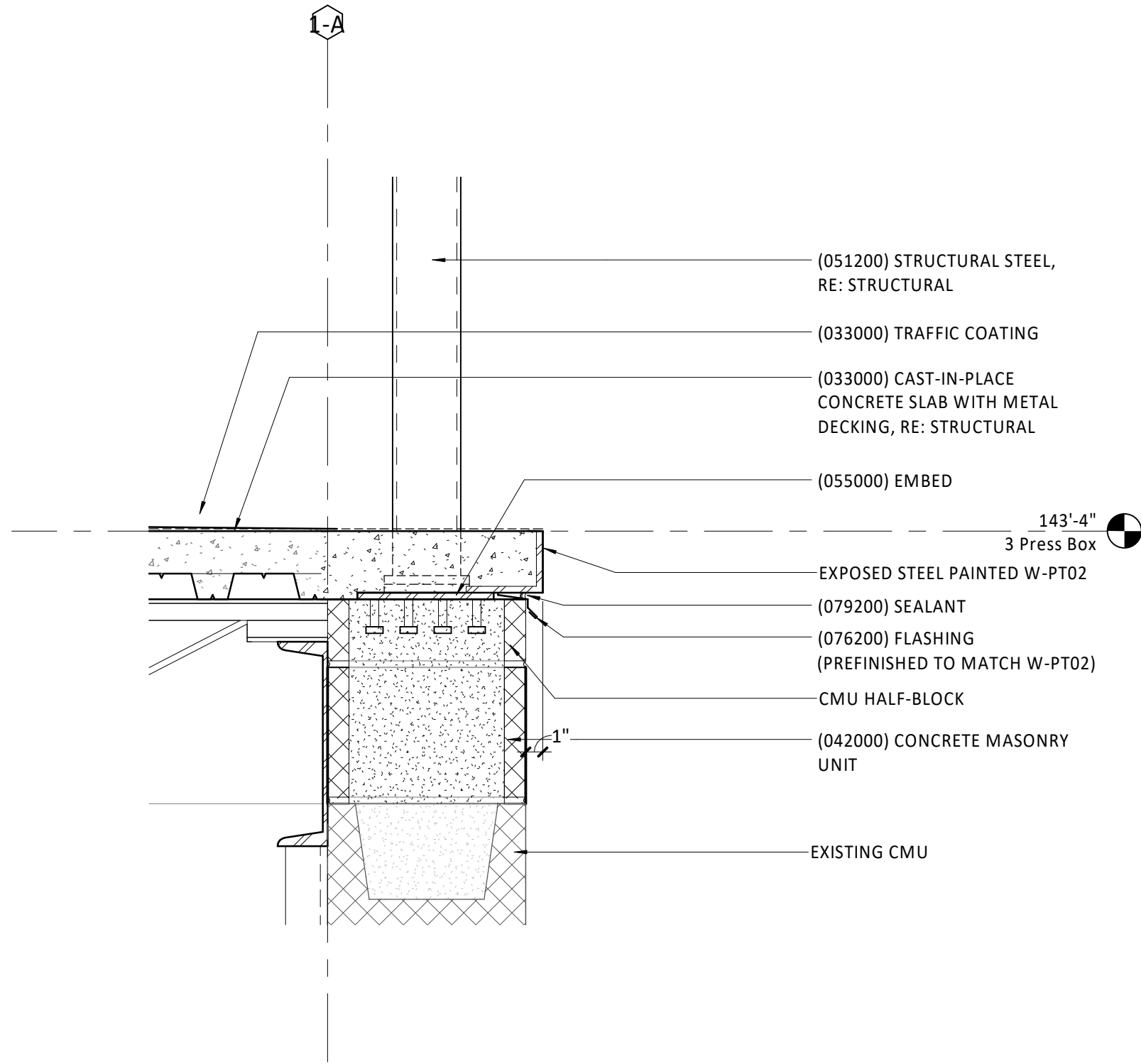
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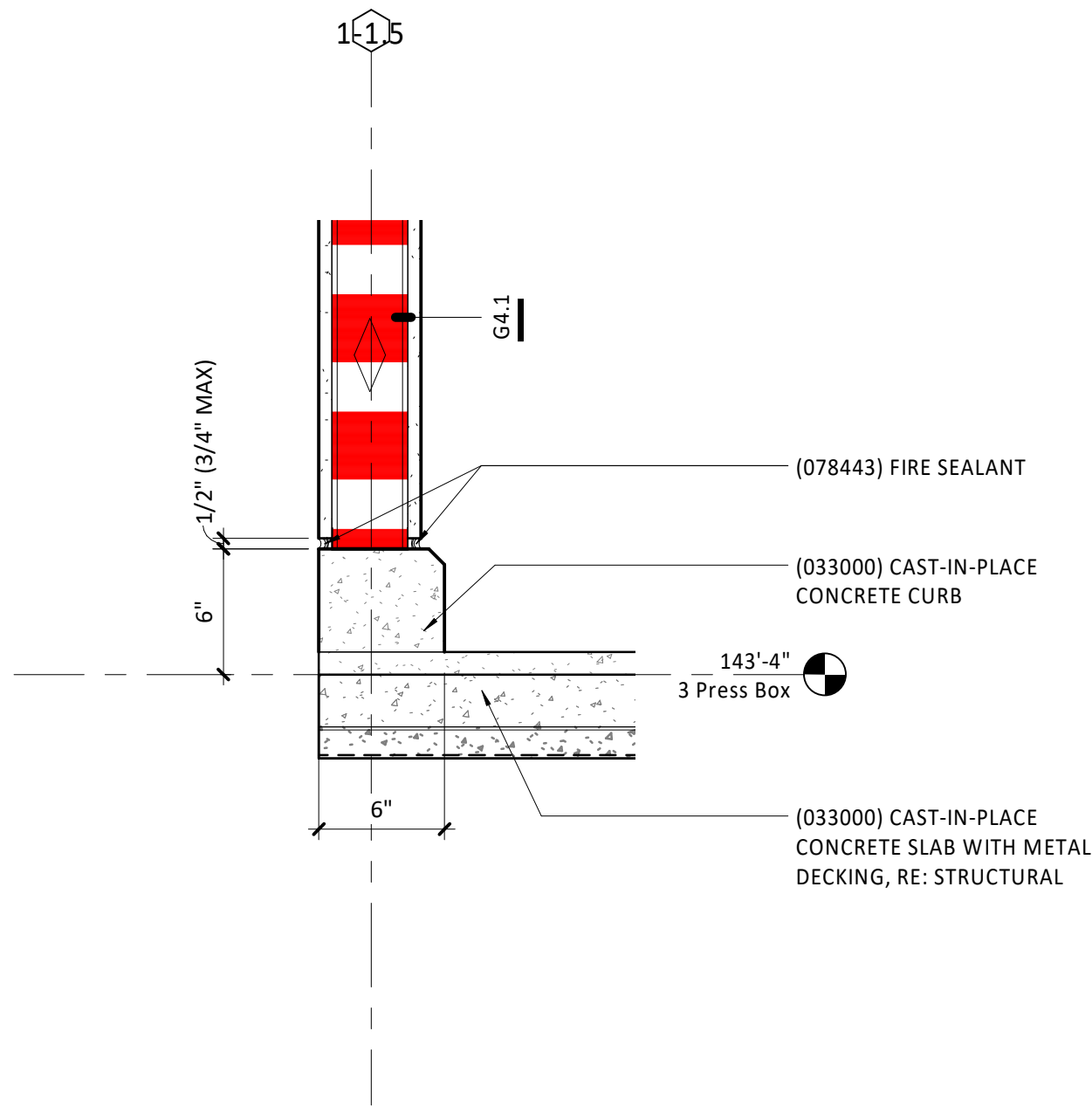
Section Detail - Rated Exterior Wall Base @ CMU F11
1 1/2" = 1'-0"



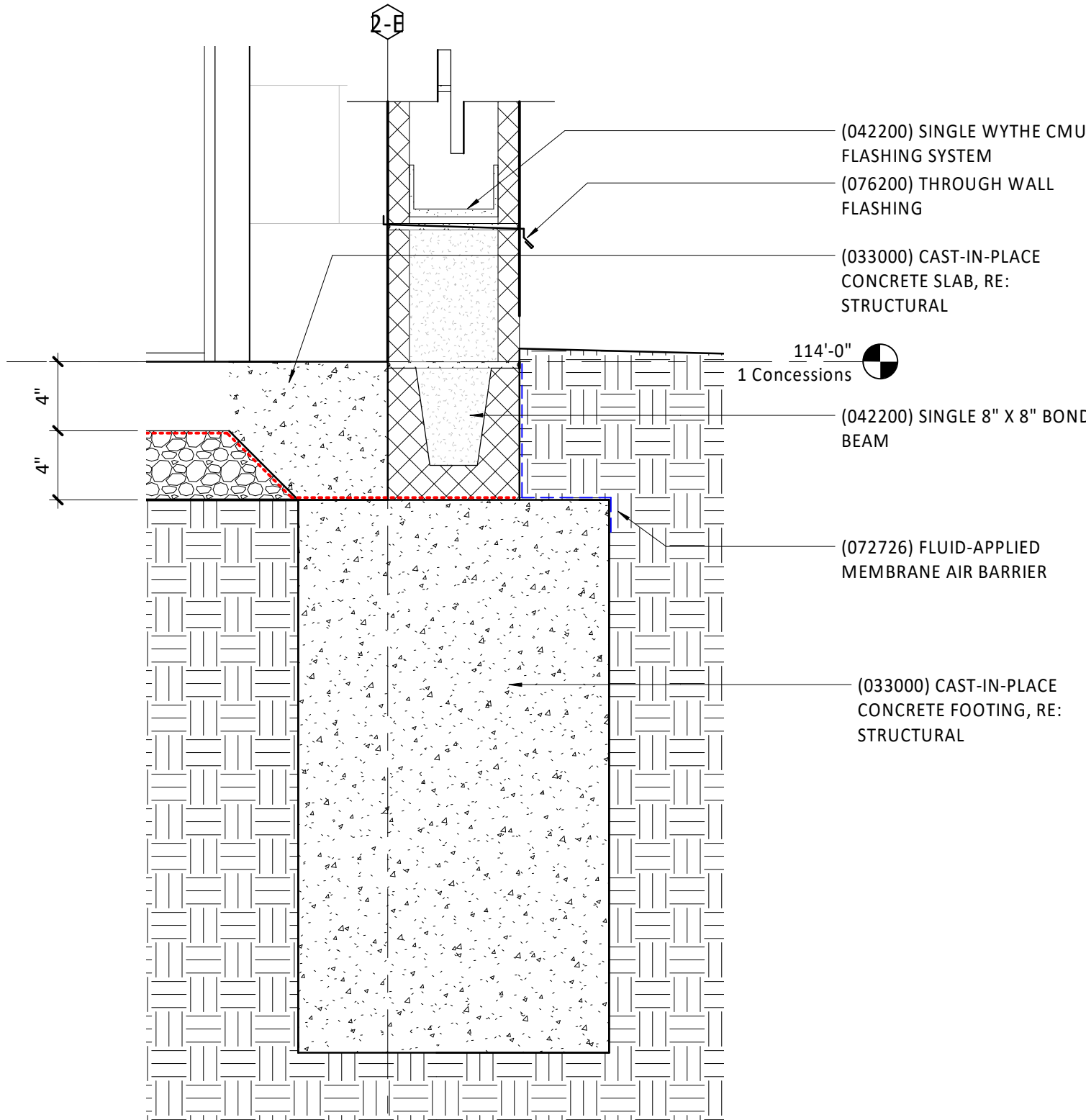
Section Detail - Exterior Wall Base @ CMU F6
1 1/2" = 1'-0"



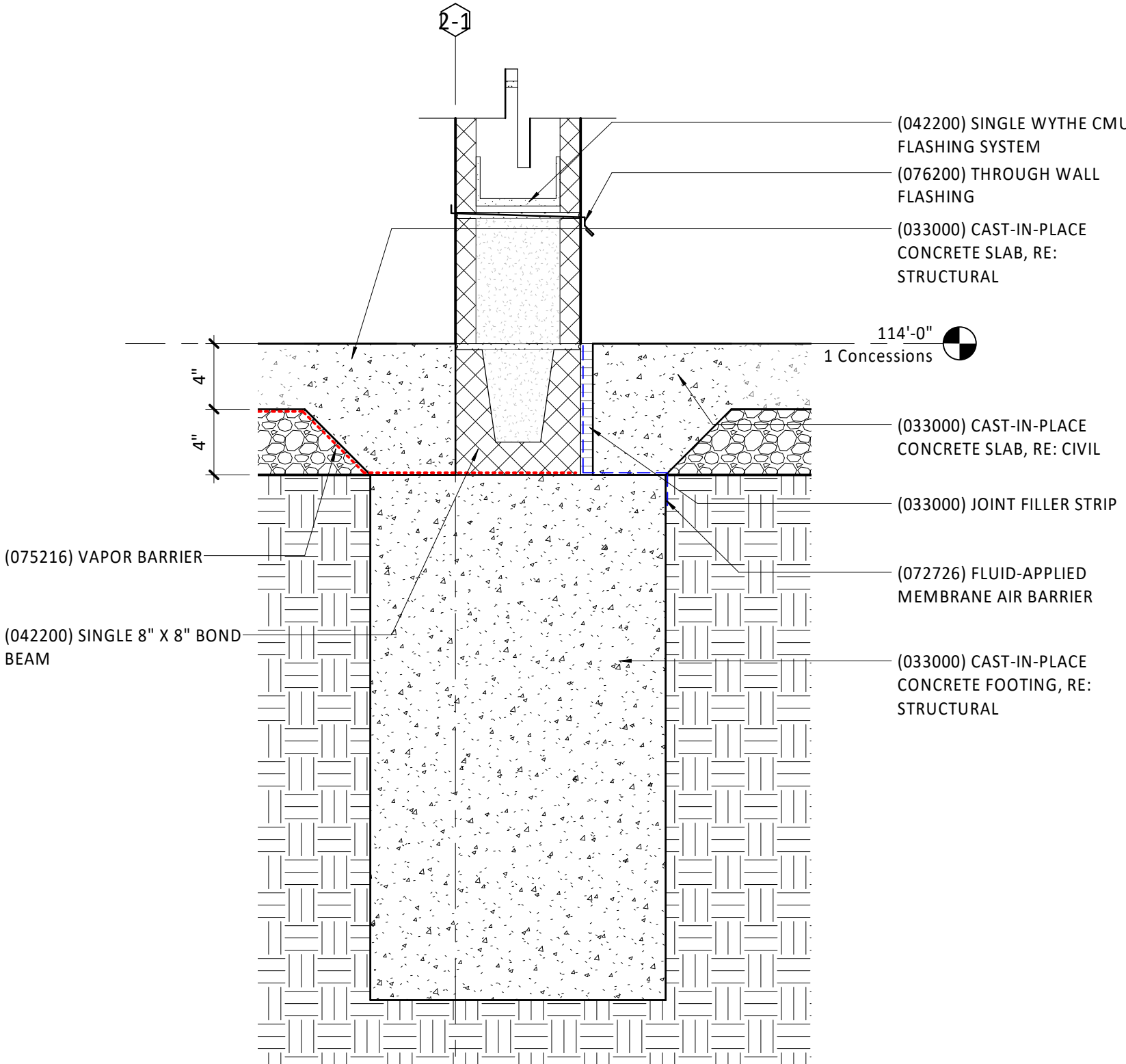
Section Detail - CMU Extension w/ Railing F1
1 1/2" = 1'-0"



Section Detail - Video Deck Wall on Concrete Curb A11
1 1/2" = 1'-0"



Section Detail - CMU Foundation @ Grade A6
1 1/2" = 1'-0"



Section Detail - CMU Foundation @ Sidewalk A1
1 1/2" = 1'-0"

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Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Section Details

W-A300

BID SET

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Athletics Facilities

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Lee's Summit, MO 64082

owner:
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301 NE Tudor Road
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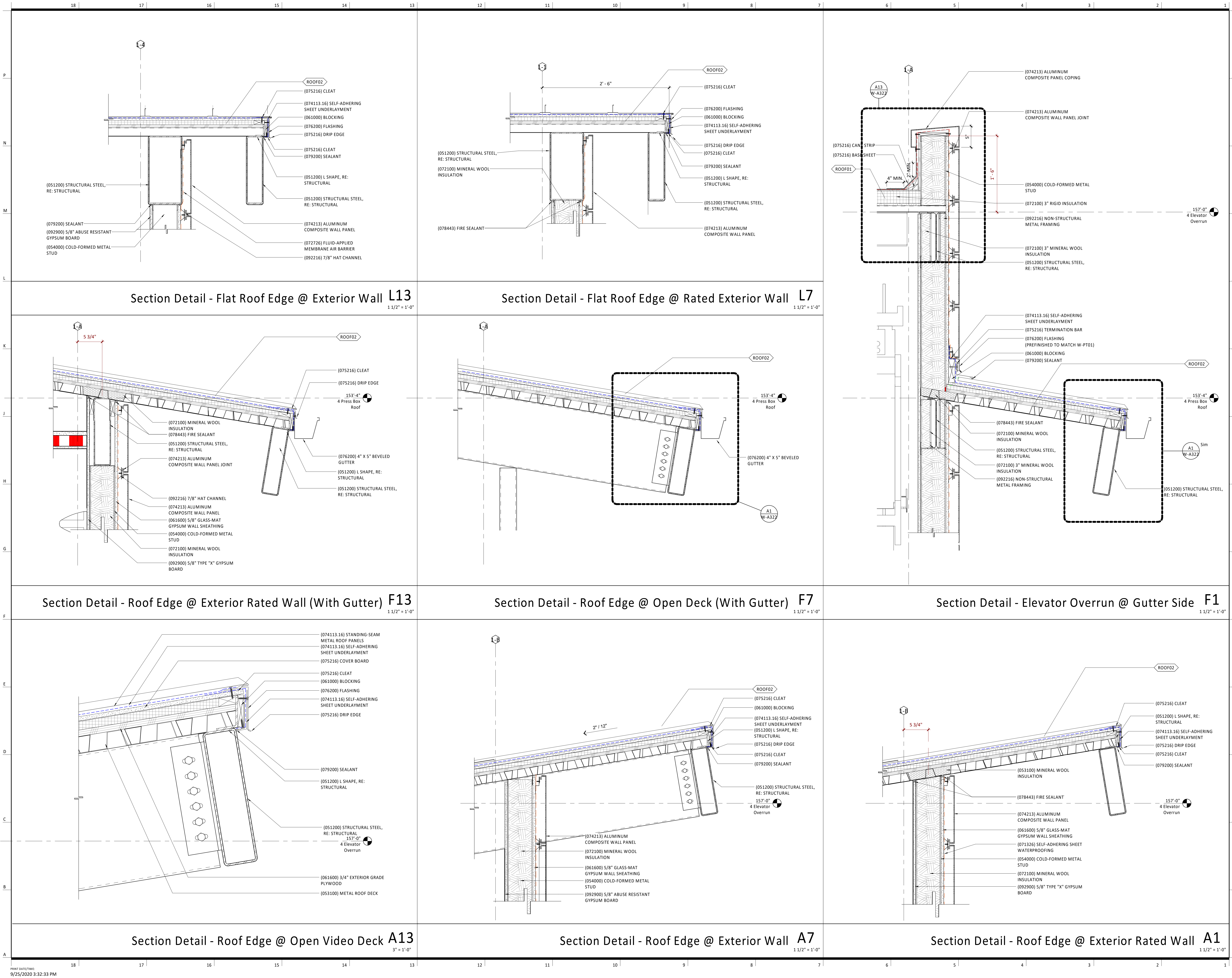
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Section Details
- Roof

W-A320

BID SET



Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

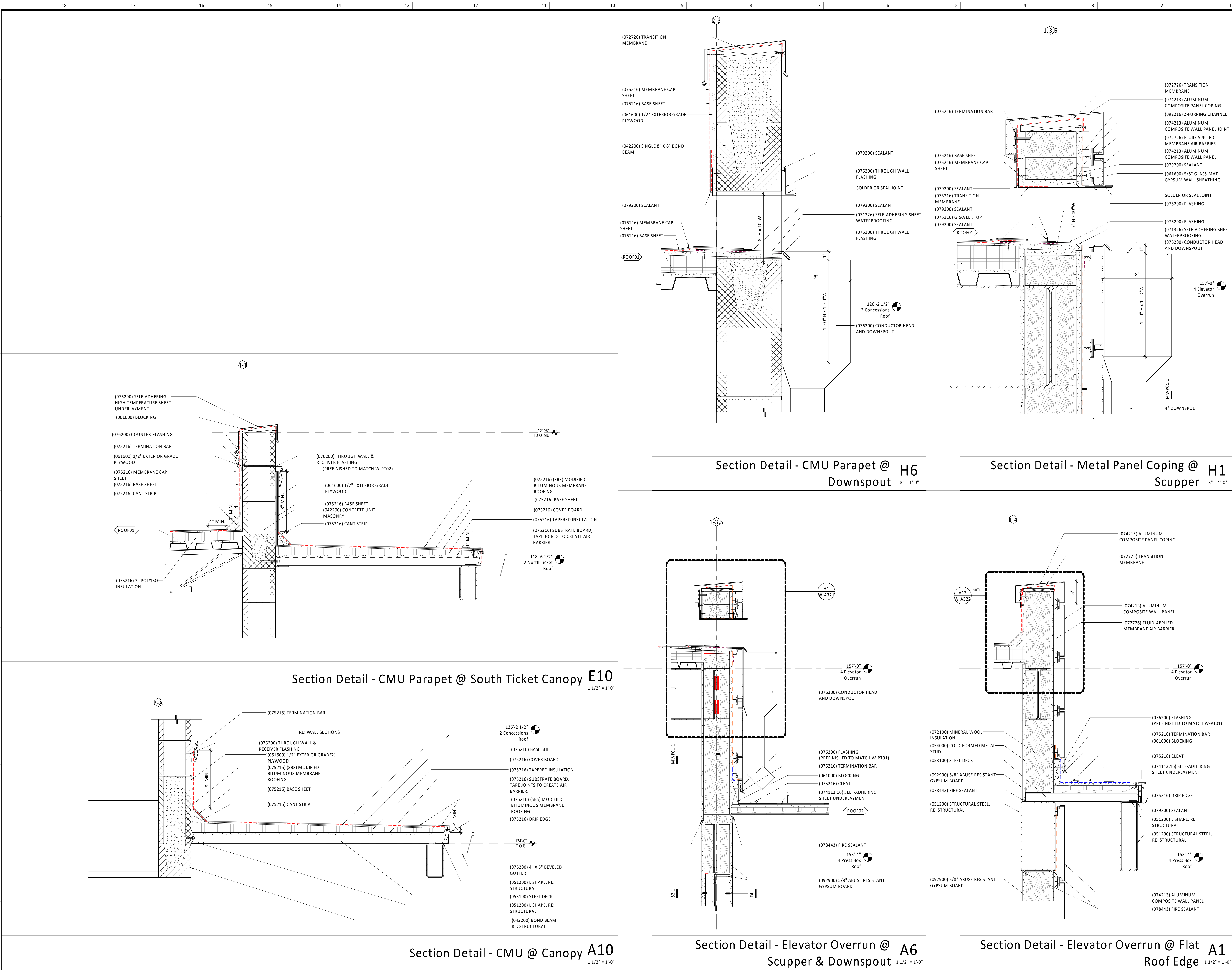
owner:
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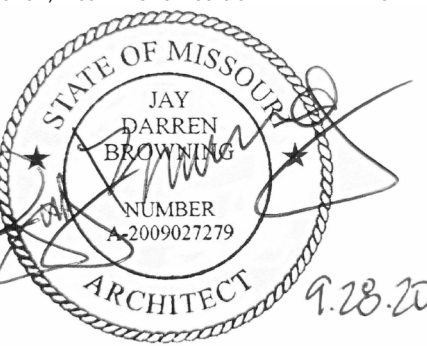
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Number DESCRIPTION DATE

PROJECT NO: 0119-0101
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Exterior Section Details
- Roof

W-A321

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

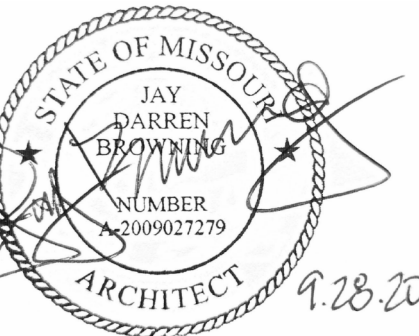
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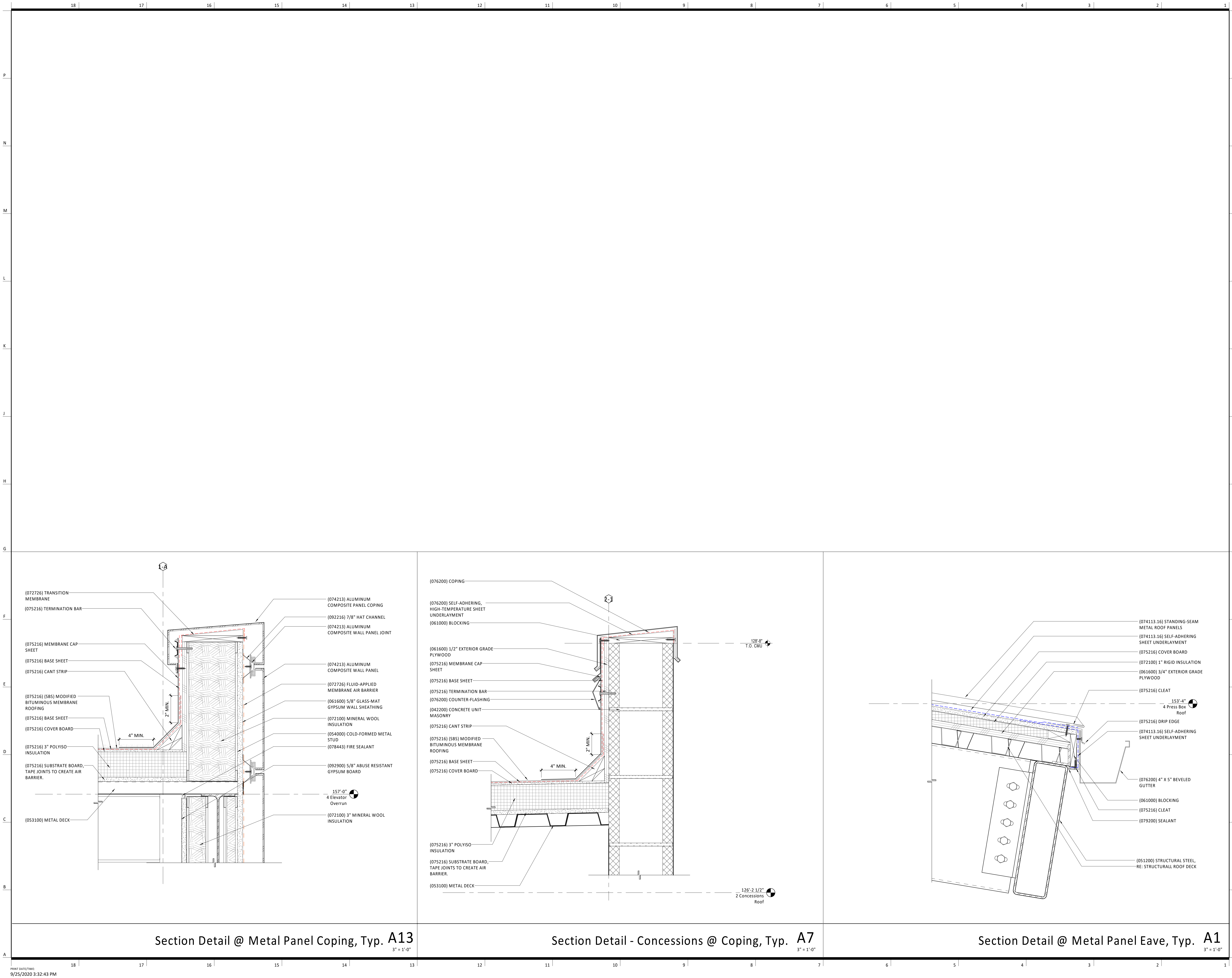
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Exterior Section Details
- Roof

W-A322

BID SET



**Lee's Summit R7 District
Athletics Facilities**

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Lee's Summit, MO 64082

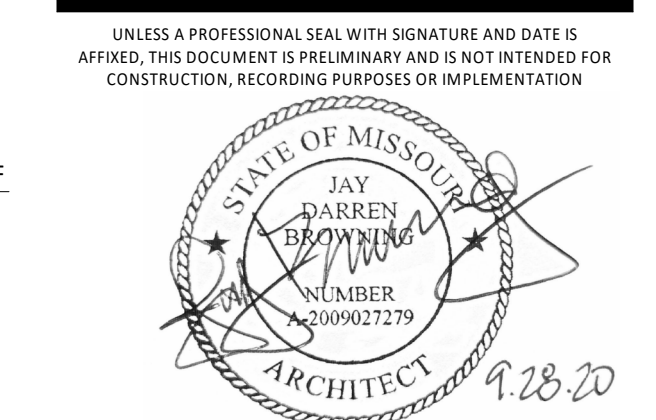
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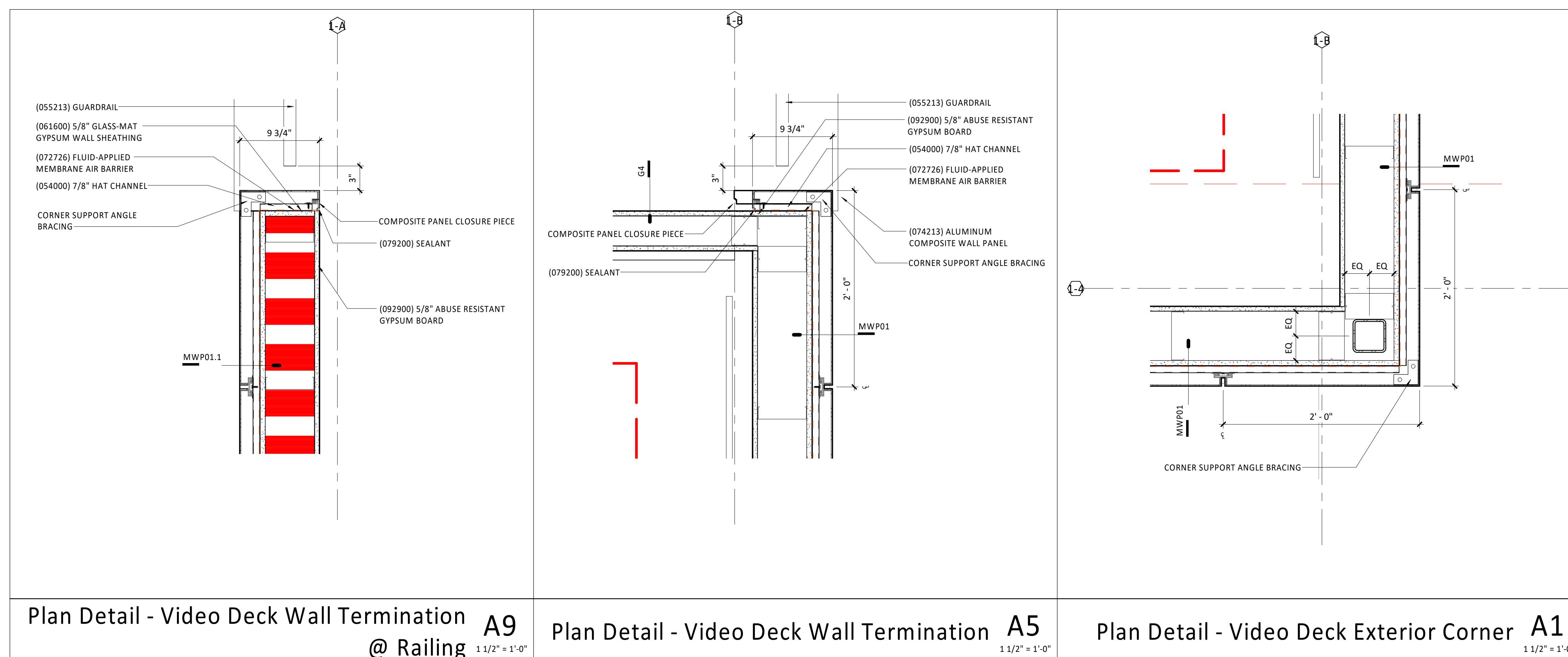
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Exterior Plan Details

W-A330

BID SET



1. ALL CASEWORK IS TO BE CONSTRUCTED TO MEET OR EXCEED ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS.
2. FIELD VIEWS SHALL SHOW DIMENSIONS PRIOR TO FABRICATION.
3. PROVIDE RUBBER BASE AT ALL CABINET BASES, UNLESS NOTED OTHERWISE.
4. REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR SPECIFIC MATERIAL LOCATIONS
5. PROVIDE MOISTURE RESISTANT PLURAL COAT AT COUNTERTOPS WITH SINKS.
6. SINKS SHOWN ON THESE DRAWINGS INDICATE LOCATIONS ONLY AND MAY NOTE REFLECT ACTUAL SIZES OR TYPES.
7. COORDINATE LOCATIONS OF ALL EQUIPMENT AND CONFIRM PROPER CLEARANCES. NOTIFY ARCHITECT FOR ANY CHANGES.
8. CENTER ALL SINKS IN THE ASSOCIATED CASEWORK, UNLESS NOTED OTHERWISE.
9. PROVIDE SIDE SPLASH WHERE COUNTERTOP ABUTS WALL, OR AT COUNTERTOPS WITH DIFFERENT HEIGHTS.
10. SEAL ALL JOINTS BETWEEN WORK SURFACES/CABINETS AND ADJOINING SURFACES.
11. PROVIDE IN WALL BLOCKING AS REQUIRED FOR UPPER SHELVES.
12. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FINISHES SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
13. FIELD COORDINATION OF LOCATIONS OF GRAMMETS IN COUNTERTOPS WITH OWNER/ARCHITECT.
14. PROVIDE FINISHED CLOSURE PANELS AT EXPOSED END CONDITIONS.
15. PROVIDE FILLER PANELS/SCRIBE AT ALL LOCATIONS WITH NEWLUMIN CASEWORK.
16. PROVIDE LOCKS AT ALL CABINET DOORS. FINAL COORDINATION WILL BE DONE BY OWNER/ARCHITECT DURING SHOP DRAWING PHASE.
17. ALL PENETRATIONS THROUGH CASEWORK SHALL BE SEALED OR COVERED WITH AN ESCUTCHEON.

B	BASE CABINET	U	UPPER CABINET
BS	BASE SCRIBE	US	UPPER SCRIBE
T	TALL CABINET		

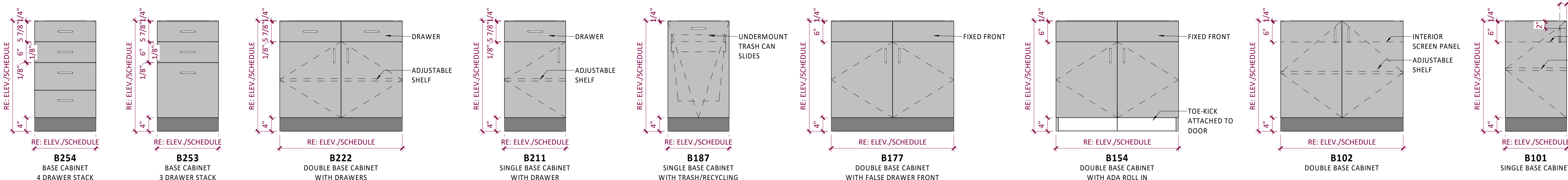
Diagram illustrating the components of a cabinet group:

- SIDESPLASH
- BACKSPLASH
- COUNTERTOP
- CABINET HARDWARE AS SCHEDULED
- CABINET DOOR SW
- ADJUSTABLE SHELF
- TOE-KICK
- CABINET GROUP
- CABINET SIZE W,H,D (IN INCHES)

Example cabinet size: 8222 36,32,5,24

Mark	Width	Height	Depth
Base-102-Double			
B102	36"	32 1/2"	24"
Base-211-Single with Drawer			
B211	18"	30 1/2"	18"
Base-222-Double with Drawer			
B222	36"	30 1/2"	18"
Counter Top			

Standard Lock and Pull Locations **D3**



Cabinet Types - Base **A3**

Number	DESCRIPTION	DATE
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BID SET

General Notes (Finishes):

1. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO FLOOR PLAN FOR CEILING TYPES ARE FOR TOP FINISH LAYER DETAILS ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FLO FLOOR/WALL CEILING ASSEMBLY DETAILS PER LOCAL CODE.
4. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC TO MATCH ADJACENT SURFACES.
5. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
6. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
7. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROTECT ALL FLOORING TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS NOTED OTHERWISE.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHT.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE UNLESS NOTED OTHERWISE.
11. CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, UNLESS OTHERWISE NOTED.
12. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR.

Finish							Comments
Level	Room Number	Room Name	Floor	Base	Wall	Ceiling	
1 Press Box	W1-51	Stair	ETR	--	ETR	--	
2 Press Box	W1-202	Command Center	ETR	ETR	ETR	W-PT04	
2 Press Box	W1-201	Visitor Coach	ETR	ETR	ETR	ETR	W-PT04
2 Press Box	W1-203	Home Coach	ETR	ETR	ETR	ETR	W-PT04
2 Press Box	W1-204	Electrical	ETR	ETR	ETR	OTS	
2 Press Box	W1-205	Vestibule	ETR	ETR	ETR	W-PT04	
2 Press Box	W1-52	Stair	ETR	--	ETR	--	
3 Press Box	W1-301	Video Deck	CC02	CC02	W-PT01	OTS	STEEL DECK AND STRUCTURE TO BE PAINTED W-PT02
3 Press Box	W1-53	Stair	CC01	--	W-PT04	OTS	
3 Press Box	W1-302	Storage/Data	CC01	RB01	W-PT04	OTS	
1 Concessions	W2-109	Storage	CC01	--	W-PT04	OTS	
1 Concessions	W2-101	Concessions	CC01	RB01	W-PT04	ACT02	
1 Concessions	W2-105	Locker Room	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-102	Women's Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-103	Men's Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-104	Family Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-106	Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-108	MEP Custodian	CC01	--	W-PT04	OTS	
1 Concessions	W2-107	Vestibule	CC01	RB01	W-PT04	ACT01	
1 North Ticket	W4-101	Ticket Booth	CC01	RB01	W-PT04	OTS	
1 South Ticket	W5-101	Ticket Booth	CC01	RB01	W-PT04	OTS	

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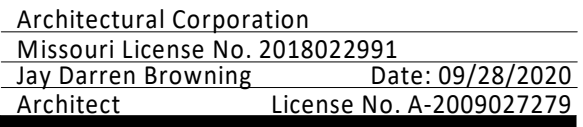
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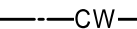

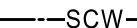

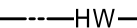

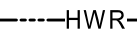

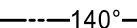
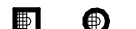
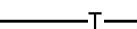
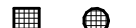



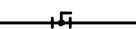



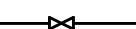
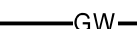

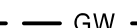

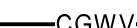
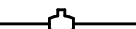
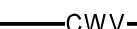



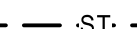
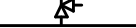




























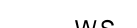


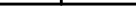






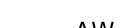




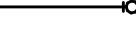

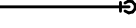

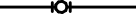





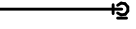

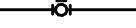


















PROJECT NO: 0119-0101
DATE: September 28, 2020

W-AF001

BID SET

KELLEY P. CRAMM

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PLUMBING SYMBOLS			V2.02	
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.				
STANDARD MOUNTING HEIGHTS		PIPING SYMBOLS	PIPING LINETYPES	
CLINIC SERVICE SINKS (RM)	30"			DOMESTIC COLD WATER (CW)
HOSE BIBB (CENTERLINE)	36"			SOFTENED COLD WATER (SCW)
ICE MAKER OUTLET BOX (CENTER OF BOX)	24"			DOMESTIC HOT WATER (HW)
JANITOR'S SINK FAUCET FITTINGS (CENTERLINE)	42"			DOMESTIC HOT WATER RECIRC. (HWR)
LAVATORY OR SINK				DOMESTIC HOT WATER (140°)
STANDARD HEIGHT (RM)	31"			TRAP PRIMER LINE (T)
ADA ACCESSIBLE (RM)	34"			SOIL PIPING - ABOVE FLOOR (S)
CHILD HEIGHT (RM)	24"			SOIL PIPING - BELOW FLOOR (S)
NON FREEZE WALL HYDRANT (AFG TO CENTERLINE)	18"			WASTE PIPING - ABOVE FLOOR (W)
SHOWER HEAD				WASTE PIPING - BELOW FLOOR (W)
MEN (CENTERLINE)	78"			GREASE WASTE - ABOVE FLOOR (GW)
WOMEN (CENTERLINE)	72"			GREASE WASTE - BELOW FLOOR (GW)
SHOWER VALVE				COMBINATION GREASE WASTE AND VENT (CGWV)
STANDARD HEIGHT - MEN (CENTERLINE)	48"			COMBINATION WASTE AND VENT (CWV)
STANDARD HEIGHT - WOMEN (CENTERLINE)	42"			STORM DRAIN - ABOVE FLOOR (ST)
ADA ACCESSIBLE (CENTERLINE)	38" TO 48"			STORM DRAIN - BELOW FLOOR (ST)
SURGEON'S SCRUB-UP SINK (FRONT RM)	35"			OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
TUB VALVE				VENT BELOW GRADE (VBS)
STANDARD HEIGHT (CENTERLINE)	32"			VENT BELOW FLOOR (VBF)
ADA ACCESSIBLE CENTER BETWEEN GRAB BAR AND TUB RM				INDIRECT DRAIN (ID)
URNAL				CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH)
STANDARD HEIGHT (RM)	24"			CONDENSATE DRAIN (CD)
ADA ACCESSIBLE (RM)	17"			AUXILIARY CONDENSATE DRAIN (ACD)
CHILD HEIGHT (RM)	14"			SUMP OR SEWAGE PUMP DISCHARGE (SPD)
WASHING MACHINE OUTLET BOX (RM)	42"			NATURAL GAS (G)
WATER CLOSET				NATURAL GAS ON ROOF (G)
STANDARD HEIGHT (RM)	15"			MEDIUM PRESSURE NATURAL GAS (MPG)
ADA ACCESSIBLE (TOP OF SEAT)	17" TO 19"			MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
CHILD HEIGHT (RM)	10"			NON-POTABLE WATER (NPW)
WATER COOLER OR DRINKING FOUNTAIN				LIQUEFIED PETROLEUM GAS (LPG)
STANDARD HEIGHT (SPOUT)	41"			WATER SERVICE (WS)
ADA ACCESSIBLE (SPOUT)	36"			FIRE PROTECTION (FP)
CHILD HEIGHT (SPOUT)	30"			CONDENSATE PUMP DISCHARGE (PD)
				VENT PIPING (V)
				ACID WASTE - ABOVE FLOOR (AW)
				ACID WASTE - BELOW FLOOR (AW)
				ACID VENT (AV)
				GRAY WATER (GWS)
				COMPRESSED AIR (CA)
				MEDICAL AIR (MA)
				MEDICAL VACUUM (VE)
				HELIUM (HE)
				INSTRUMENT AIR (IA)
				INSTRUMENT VACUUM (IV)
				NITROGEN (N2)
				NITROUS OXIDE (N2O)
				OXYGEN (O2)
				EVAC/WAGD (EV)
				CARBON DIOXIDE (CO2)
				MEDICAL AIR INTAKE (AI)
				MEDICAL VACUUM EXHAUST (VE)
				DENTAL AIR (DA)
				DENTAL VACUUM (DV)
				FILTERED WATER (FW1)
				FILTERED WATER W/ SCALE INHIBITOR (FW2)
				REVERSE OSMOSIS (RO)
				REVERSE OSMOSIS REMINERALIZATION (ROR)
		LINETYPE LEGEND		
		THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.		
		EXISTING	NEW	
		DEMOLISH	FUTURE	

- GENERAL NOTES:**
- PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS. REFER TO SPECIFICATIONS.
 - DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
 - PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS. REFER TO SPECIFICATIONS.
 - INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
 - PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
 - VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
 - REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
 - DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
 - INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
 - VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
 - INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR PERPENDICULAR TO WALLS.
 - INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
 - INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE OR UNDER THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
 - COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
 - CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
 - PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
 - COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
 - PAINT ALL EXPOSED WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
 - COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
 - INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
 - PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SANITARY PIPING 3" AND LARGER. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT AND PIPING SPECIALTIES" FOR MORE INFORMATION.
 - PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON SANITARY. WASTE AND VENT PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT PIPING AND SPECIALTIES" FOR MORE INFORMATION.
 - FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5 GPM UNLESS NOTED OTHERWISE.
 - WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
 - PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
 - PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVATED WATERPROOF FLOOR SLABS, REFER TO SPECIFICATIONS.
 - VERIFY EXISTING EQUIPMENT, INCLUDING ACCESSORIES, IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE ARCHITECT.
 - PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1, FOR 1/2" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.

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Lee's Summit R7 District
Athletics Facilities

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Lee's Summit, MO 64082

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Sep 28 2020

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

PLUMBING LEGEND
AND NOTES

W-P000

BID SET

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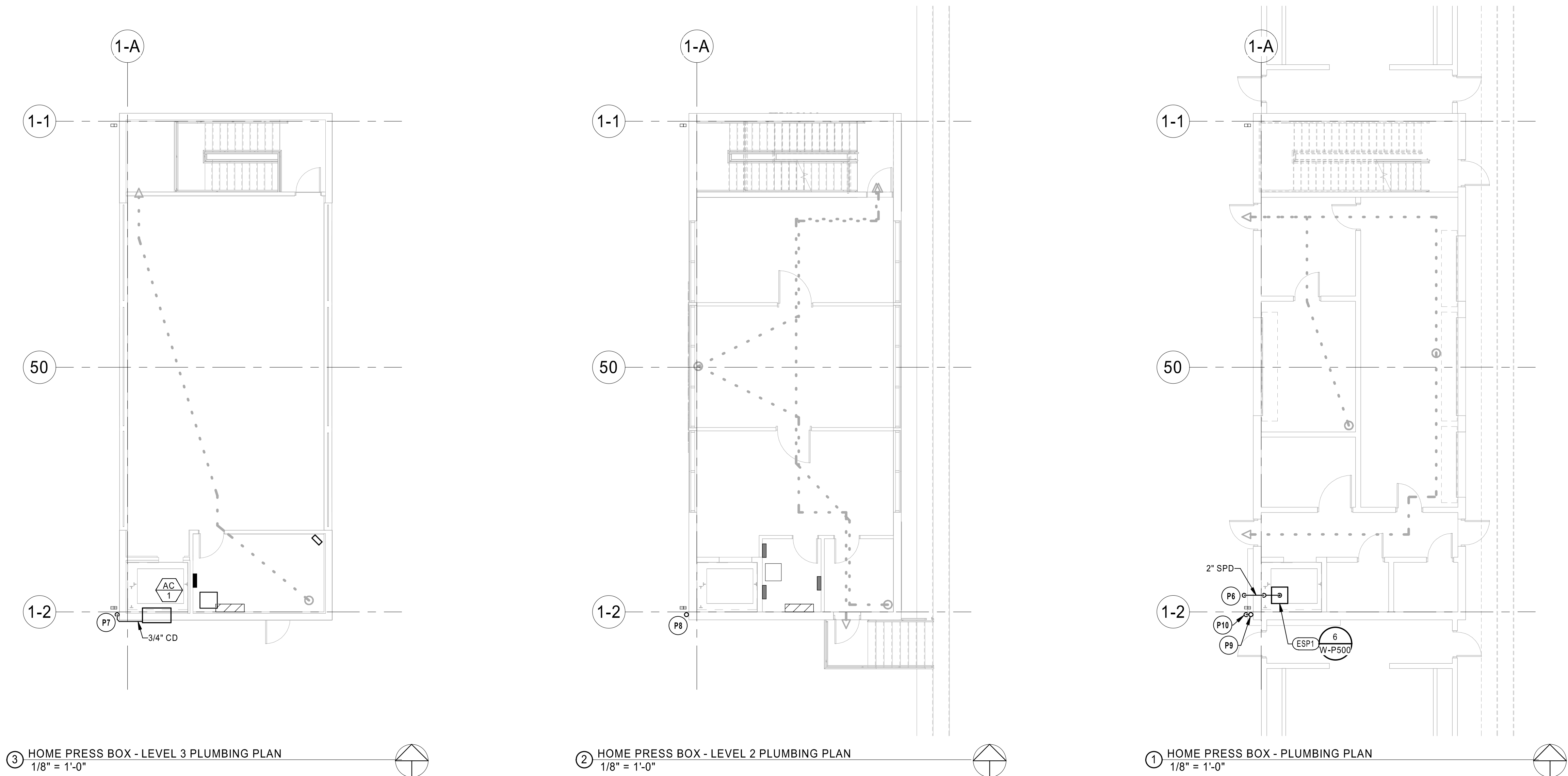
HOME PRESS BOX -
PLUMBING PLANS

W-P111

BID SET

PLUMBING PLAN NOTES:

P6 ELEVATOR SUMP PUMP PIPING SHALL DISCHARGE TO GRADE.
P7 3/4" CONDENSATE DRAIN TFB.
P8 3/4" CONDENSATE DRAIN FFA AND TFB.
P9 3/4" CONDENSATE DRAIN FFA.
P10 3/4" CONDENSATE DRAIN SHALL DISCHARGE TO GRADE.

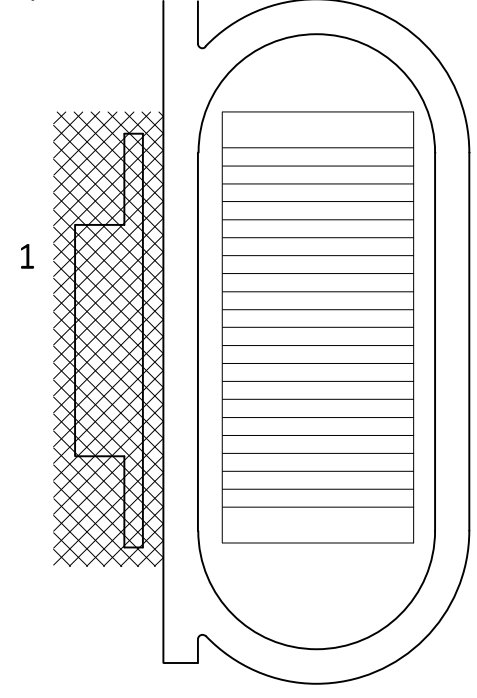


③ HOME PRESS BOX - LEVEL 3 PLUMBING PLAN
1/8" = 1'-0"

② HOME PRESS BOX - LEVEL 2 PLUMBING PLAN
1/8" = 1'-0"

① HOME PRESS BOX - PLUMBING PLAN
1/8" = 1'-0"

Key Plan:



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VISITOR RESTROOMS
& CONCESSIONS -
PLUMBING PLAN

W-P121

BID SET

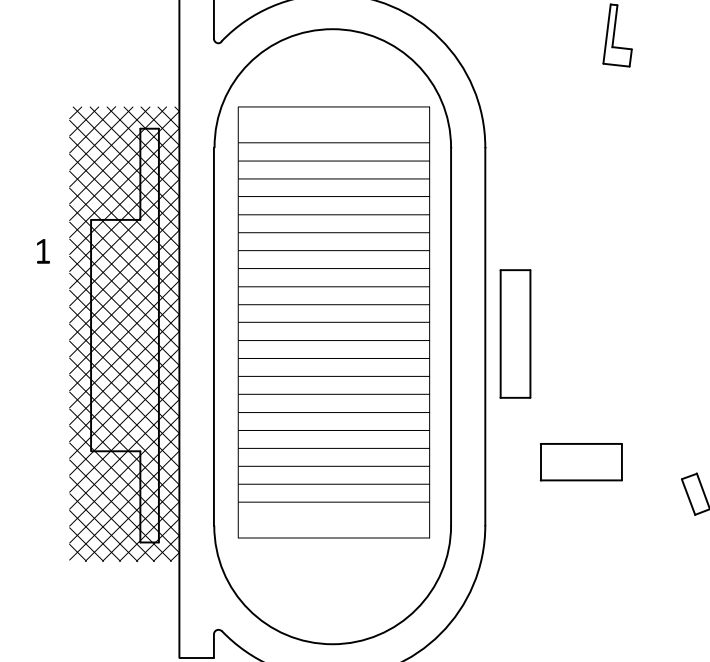
PLUMBING PLAN NOTES:

- P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL PANELS OR EQUIPMENT.
P2 ROUTE 1-1/4" COLD WATER AND 1-1/2" HOT WATER DOWN AND HEADER IN WALL.
P3 ROUTE 2" COLD WATER AND 3/4" HOT WATER DOWN AND HEADER IN WALL.
P4 ROUTE 3" COLD WATER DOWN AND HEADER IN WALL.
P5 ROUTE 3/4" COLD WATER AND 3/4" HOT WATER DOWN AND HEADER IN WALL.
P11 LOCATE TRANSFORMER "T" ABOVE CEILING IN ACCESSIBLE LOCATION. REFER TO ELECTRICAL DRAWINGS FOR INSTALLATION.
P12 TRANSFORMER TO SERVE (3) WC AND (1) LAV IN WOMEN'S RESTROOM W2-102.
P13 TRANSFORMER TO SERVE (2) WC AND (2) LAV IN WOMEN'S RESTROOM W2-102.
P14 TRANSFORMER TO SERVE (1) WC, (2) UR AND (1) LAV IN MEN'S RESTROOM W2-103.
P15 TRANSFORMER TO SERVE (1) WC, (1) UR AND (1) LAV IN MEN'S RESTROOM W2-103.

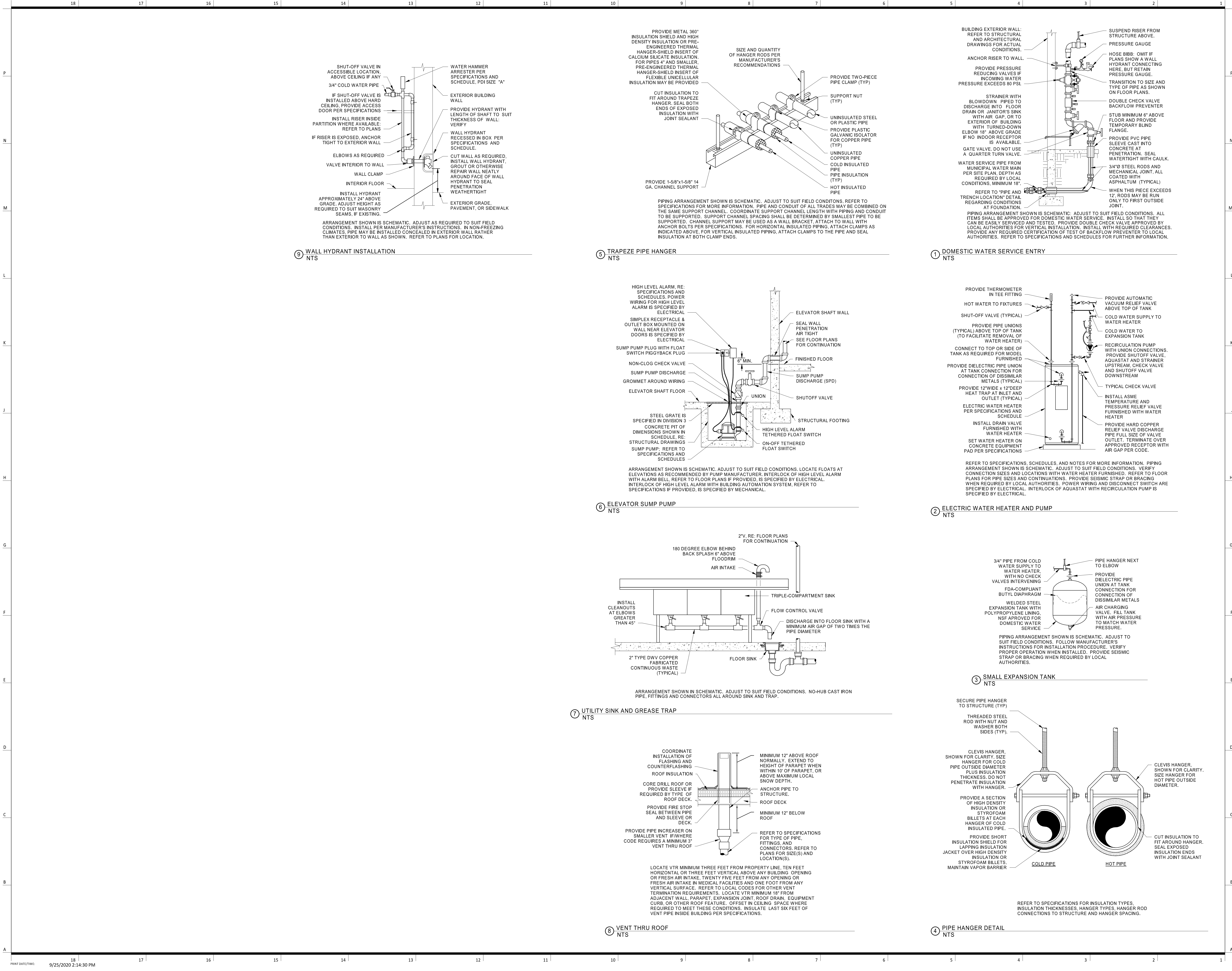
2 VISITOR RESTROOMS/CONCESSIONS - PLUMBING DOMESTIC WATER PLAN
1/4" = 1'-0"

1 VISITOR RESTROOMS/CONCESSIONS - PLUMBING WASTE AND VENT PLAN
1/4" = 1'-0"

Key Plan:



KELLEY P. CRAMM



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**KELLEY P. CRAMM
REGISTERED PROFESSIONAL ENGINEER
E-22323**

Kelley P. Cramm

Sep 28 2020

REVISIONS		
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PROJECT NO: 0119-0101
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PLUMBING DETAILS

W-P500

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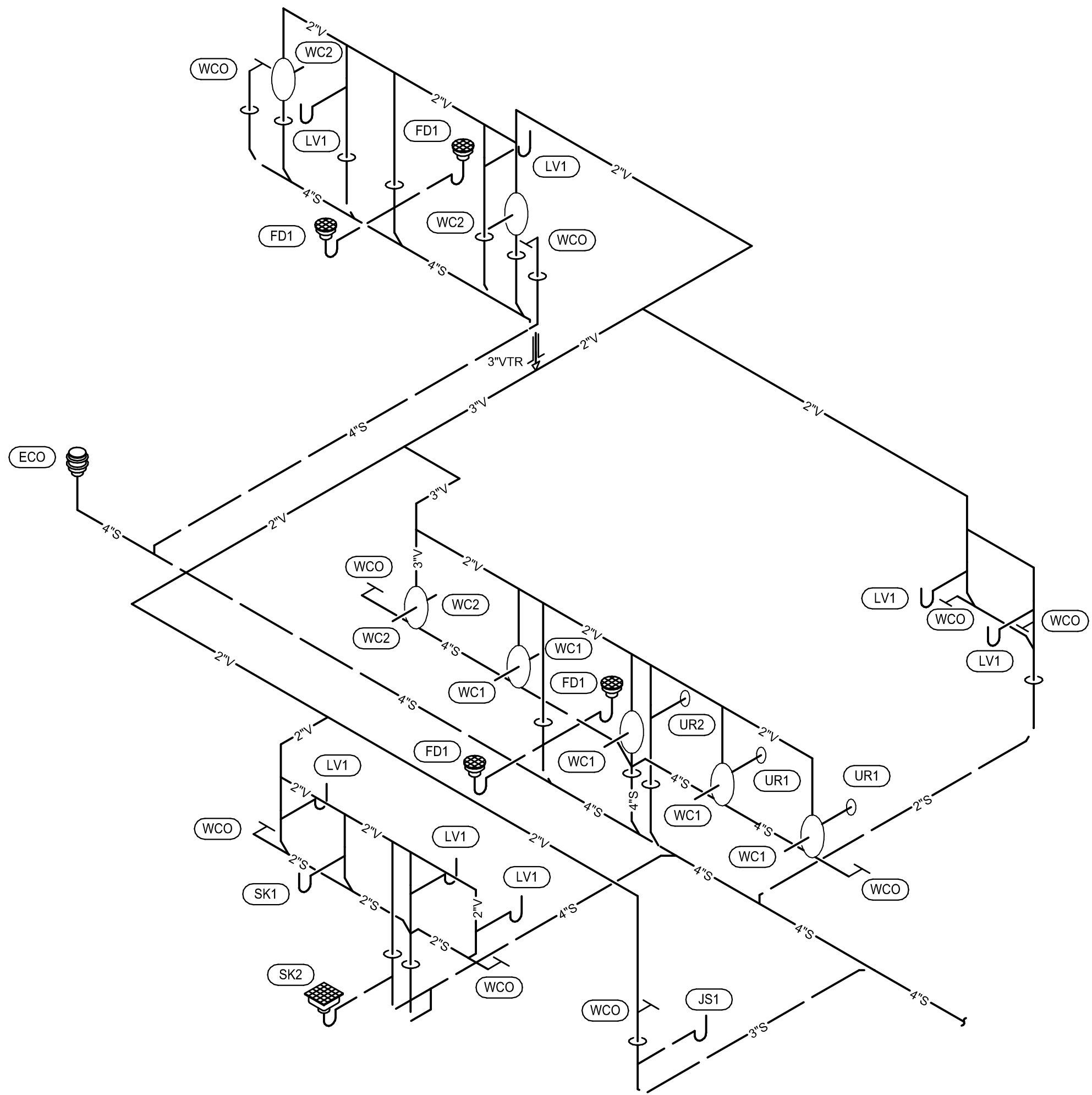
KELLEY P. CRAMM
E-22323
PROFESSIONAL ENGINEER
Sep 28 2020

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0101
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PLUMBING RISERS
W-P700
BID SET



① PLUMBING RESTROOM WASTE AND VENT RISER
NTS

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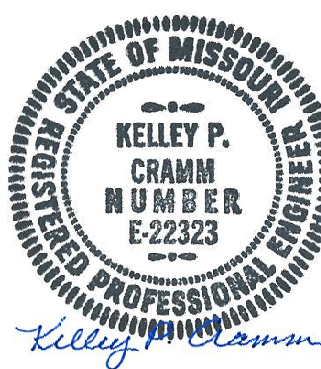
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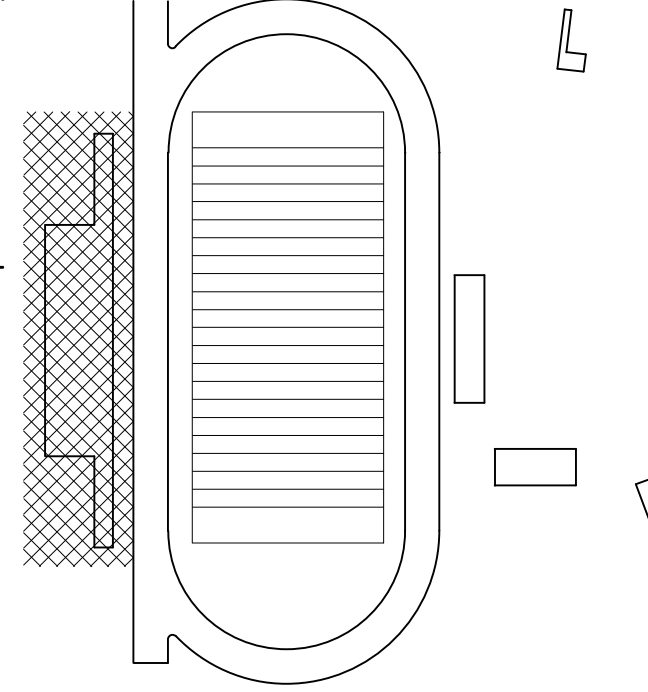
REVISIONS

Number	DESCRIPTION	DATE
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Sheet Number	Sheet Name
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W-M000	MECHANICAL LEGEND AND NOTES
W-M111	HOME PRESS BOX - HVAC PLAN
W-M121	VISITOR RESTROOMS & CONCESSIONS - HVAC PLANS
W-M131	TICKET BOOTH - HVAC PLANS
W-M500	MECHANICAL DETAILS
W-M600	MECHANICAL SCHEDULES & CONTROLS

Key Plan:



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MECHANICAL LEGEND AND NOTES

W-M000

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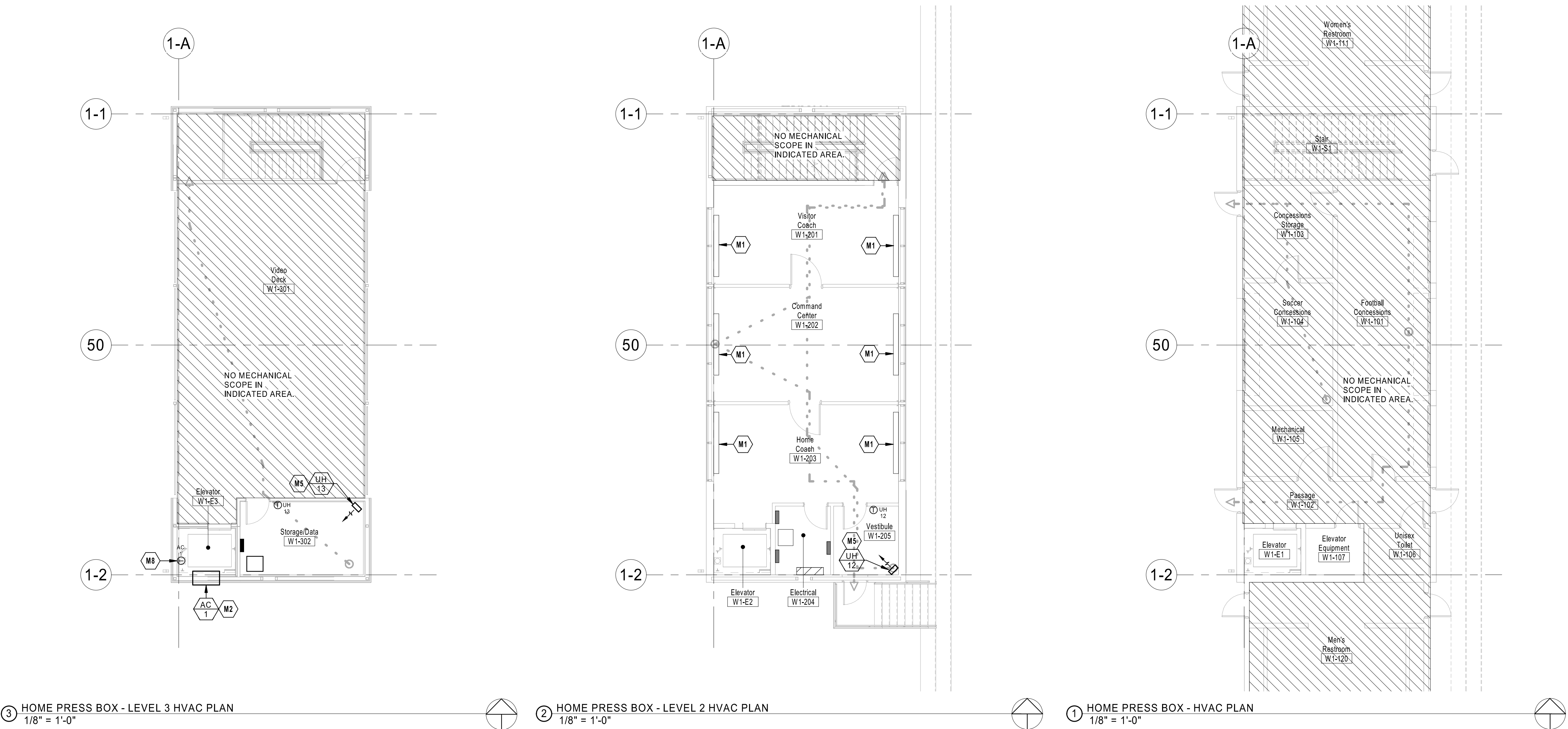
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

MECHANICAL PLAN NOTES:

- M1 EXISTING HEATER AND ALL ASSOCIATED ACCESSORIES TO REMAIN.
- M2 INSTALL PACKAGED TERMINAL AIR CONDITIONER IN WALL AT TOP OF THE ELEVATOR SHAFT AS NOT TO INTERFERE WITH ELEVATOR OPERATION. COORDINATE FINAL LOCATION WITH ELEVATOR MANUFACTURER REQUIREMENTS.
- M5 INSTALL UNIT HEATER SUSPENDED FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.
- M8 INSTALL THERMOSTAT IN ELEVATOR SHAFT AS CLOSE AS POSSIBLE TO ELEVATOR CONTROLLER WITHOUT INTERFERING WITH ELEVATOR OPERATION.

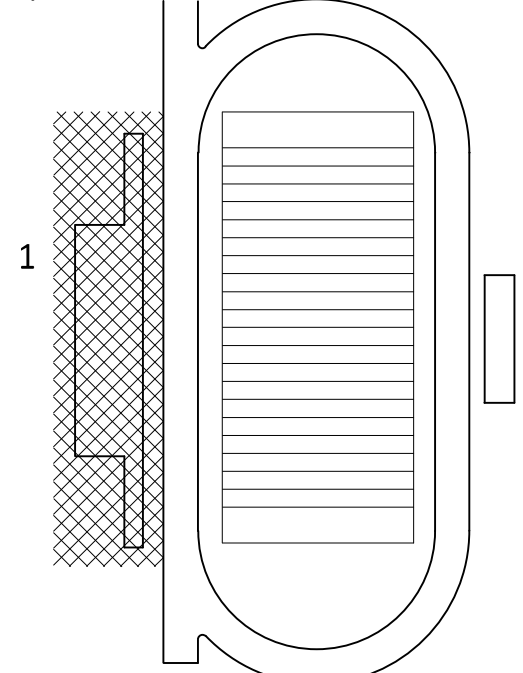


3 HOME PRESS BOX - LEVEL 3 HVAC PLAN
1/8" = 1'-0"

2 HOME PRESS BOX - LEVEL 2 HVAC PLAN
1/8" = 1'-0"

1 HOME PRESS BOX - HVAC PLAN
1/8" = 1'-0"

Key Plan:



PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME PRESS BOX -
HVAC PLAN

W-M111

BID SET

HENDERSON
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MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0101
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HOME PRESS BOX -
HVAC PLAN

W-M111

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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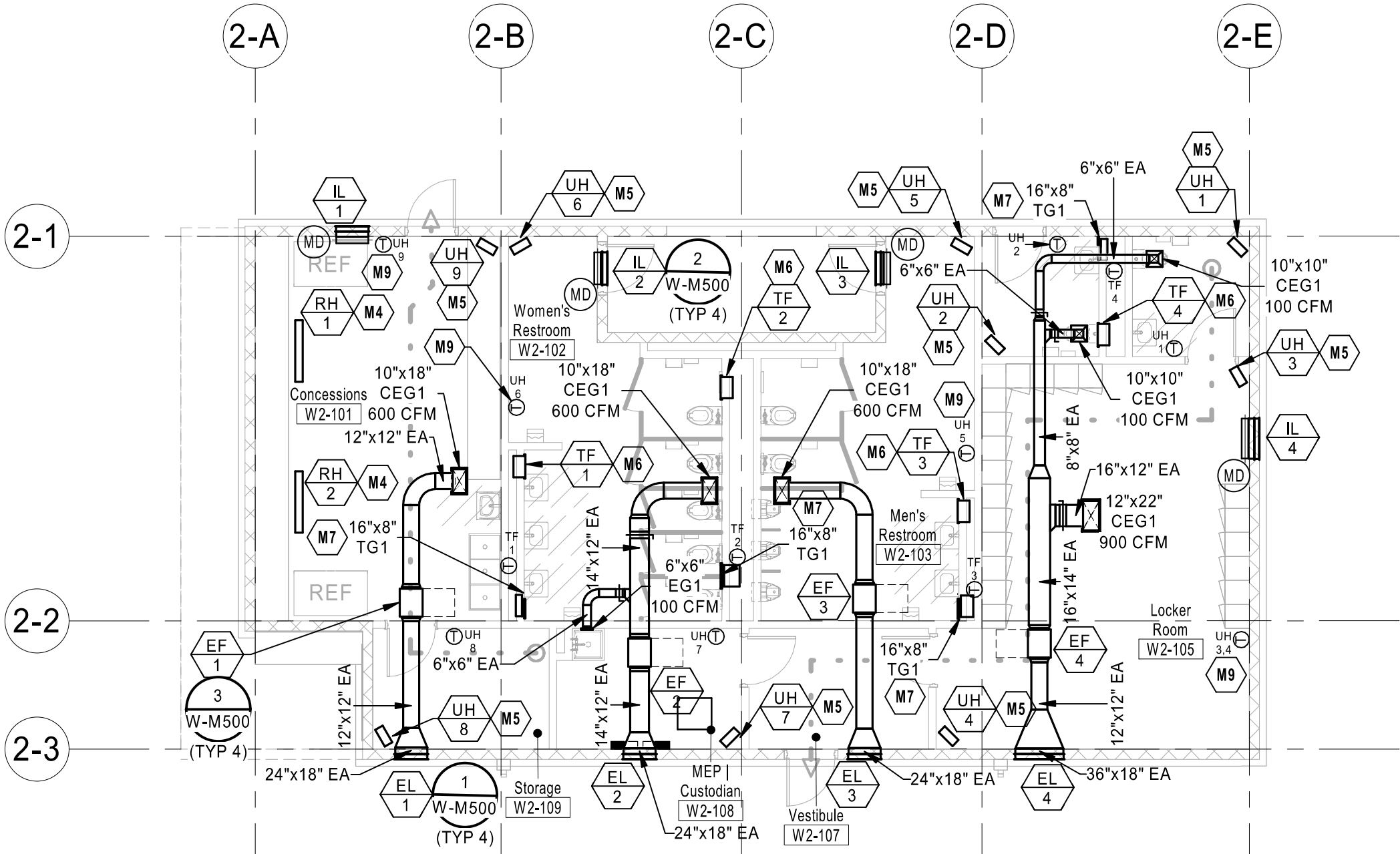
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PROJECT NO: 0119-0101
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VISITOR RESTROOMS
& CONCESSIONS -
HVAC PLANS

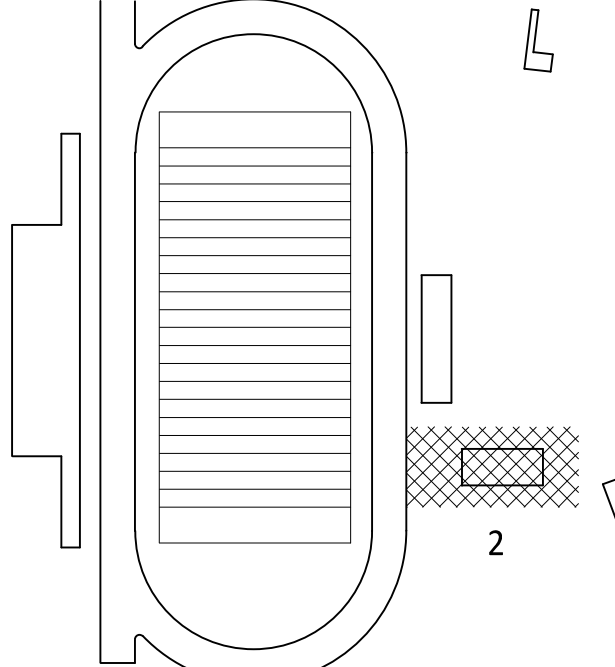
W-M121

BID SET



1 VISITOR RESTROOMS/CONCESSIONS - HVAC PLAN
1/8" = 1'-0"

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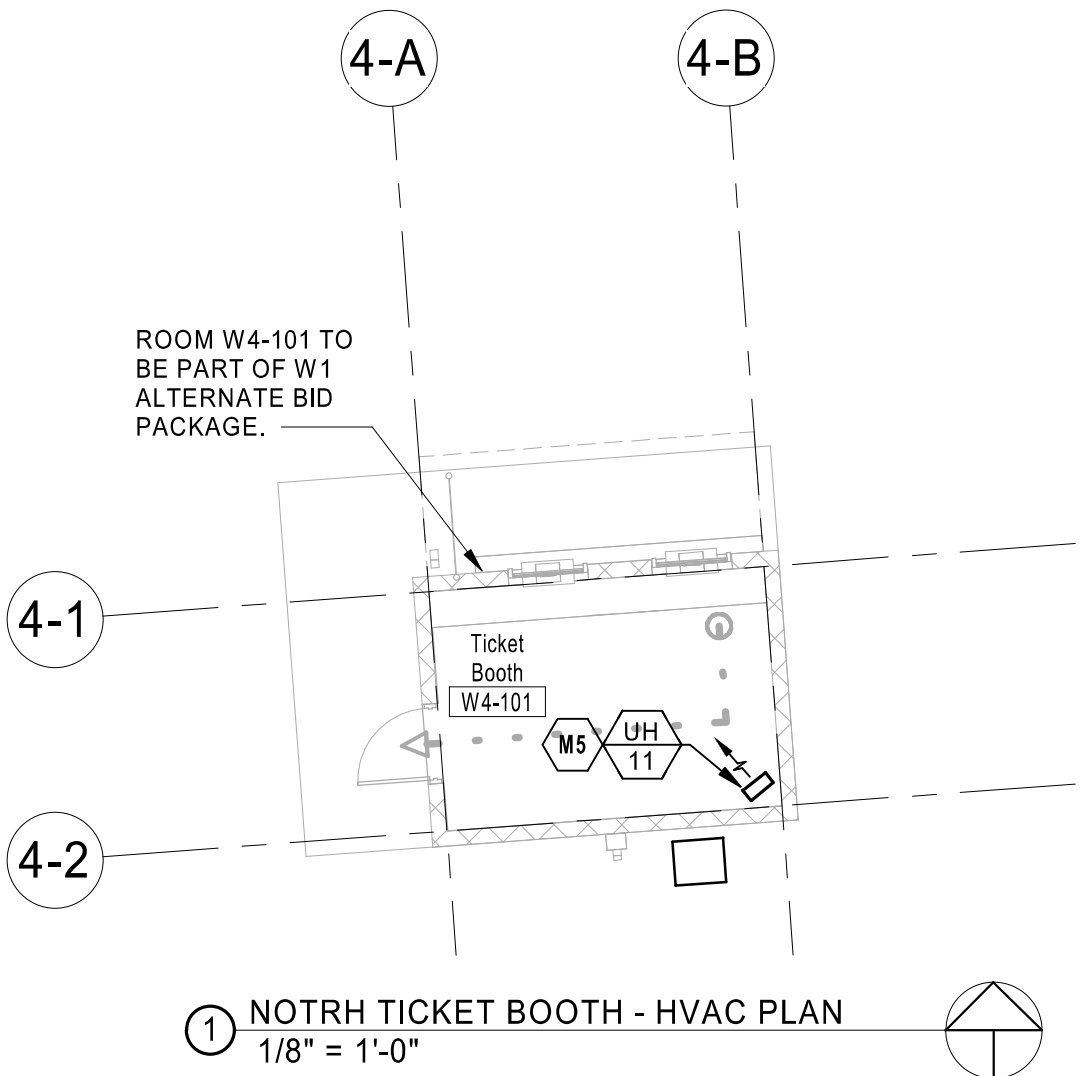
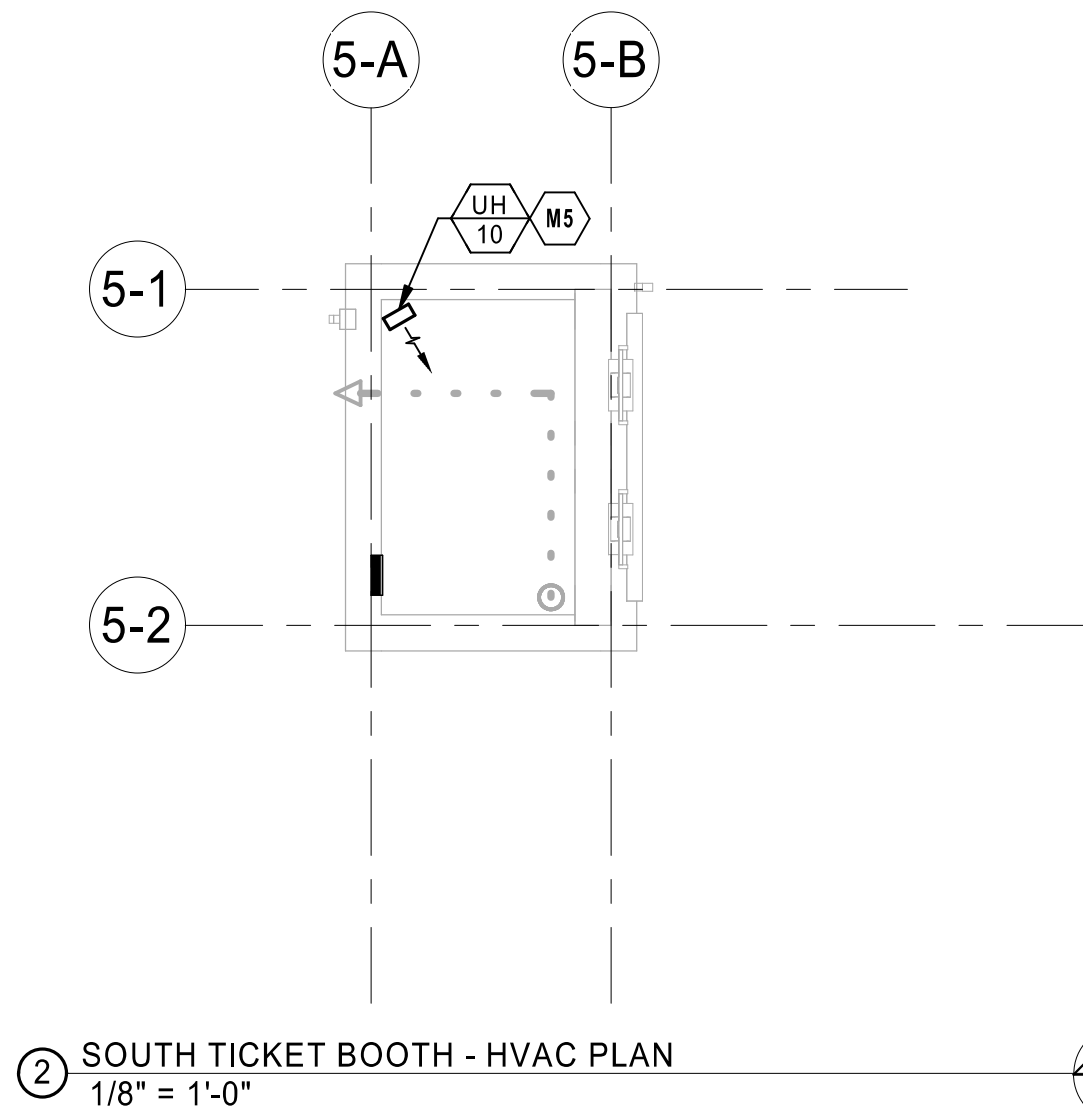
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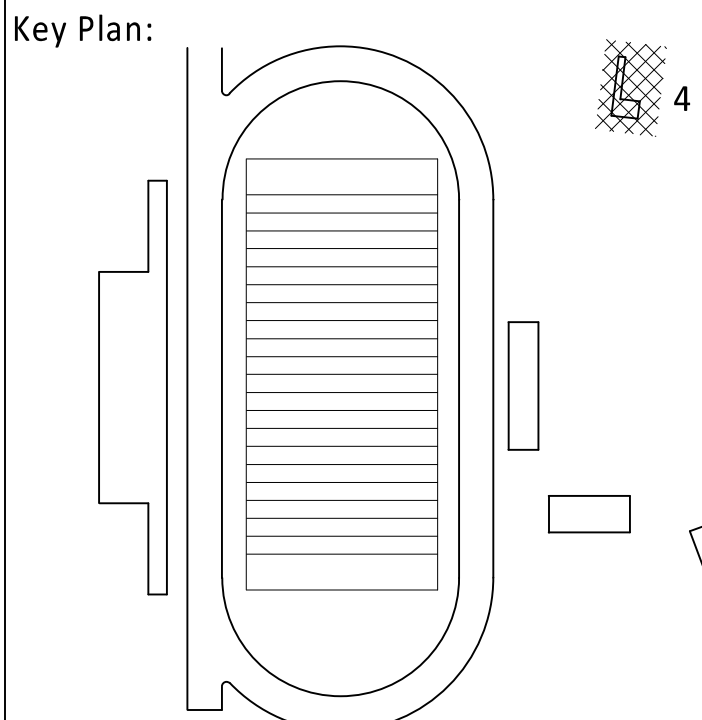
TICKET BOOTH - HVAC
PLANS

W-M131

BID SET



MECHANICAL PLAN NOTES:
MS INSTALL UNIT HEATER SUSPENDED FROM STRUCTURE
ACCORDING TO MANUFACTURER REQUIREMENTS AND
SPECIFICATIONS.



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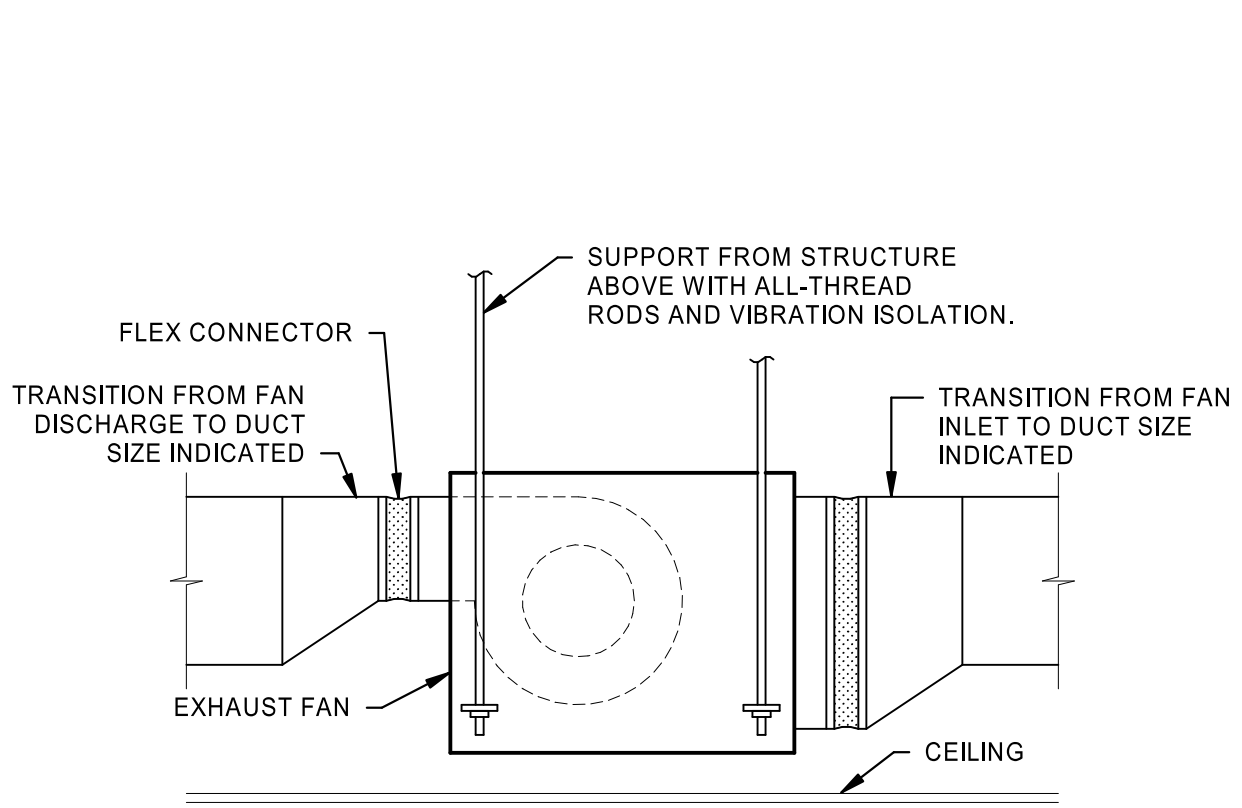
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STATE OF MISSOURI
KELLEY P. CRAMM
NUMBER
E-22223
PROFESSIONAL ENGINEER
Sep 25 2020

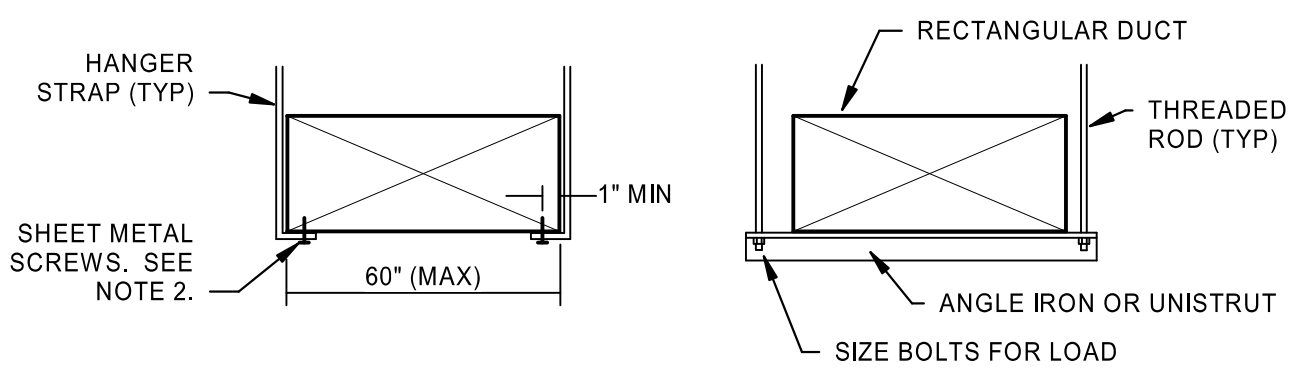
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Number DESCRIPTION DATE

PROJECT NO: 0119-0101
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MECHANICAL DETAILS
W-M500
BID SET

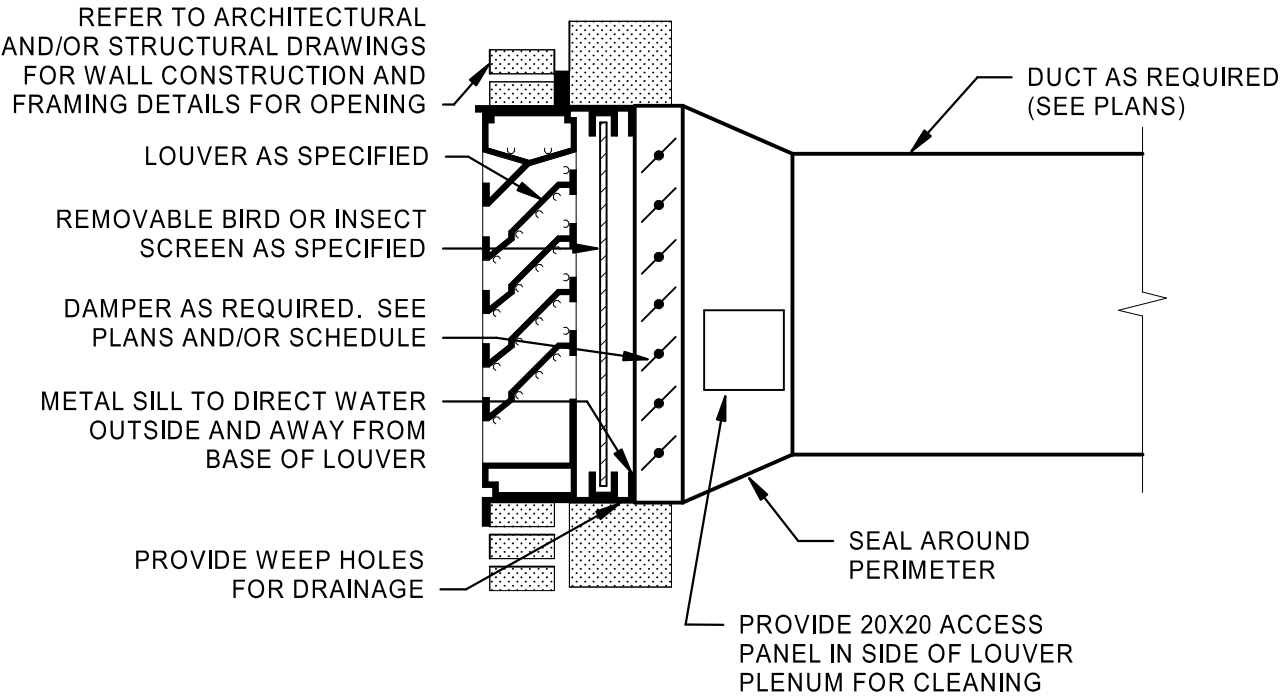


③ IN-LINE CABINET EXHAUST FAN DETAIL
NTS



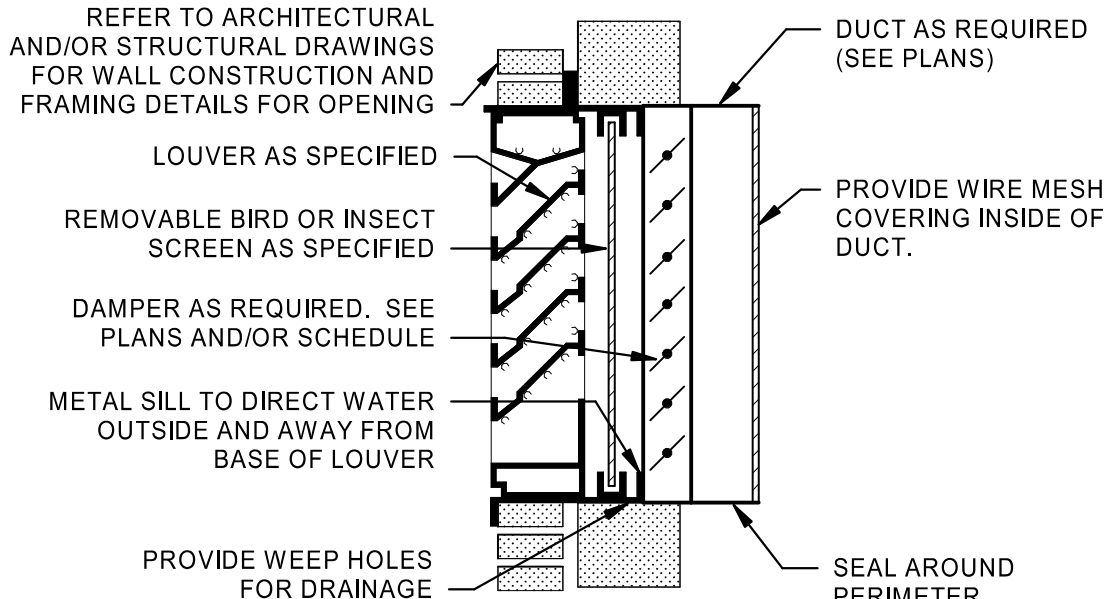
④ DUCT HANGER LOWER ATTACHMENT DETAILS
NTS

- NOTES:
1. USE THREADED ROD FOR RECTANGULAR DUCTS LARGER THAN 60" WIDE.
 2. OMIT SHEET METAL SCREWS IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE RECTANGULAR DUCT.
 3. HANGERS MUST NOT DEFORM DUCT SHAPE.



- NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

① EXHAUST LOUVER INSTALLATION DETAIL
NTS



- NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

② INTAKE LOUVER INSTALLATION DETAIL
NTS

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2600 SW Ward Road
Lee's Summit, MO 64082

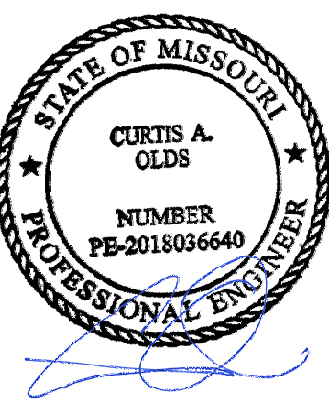
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MO. CORPORATE NO. E-556D
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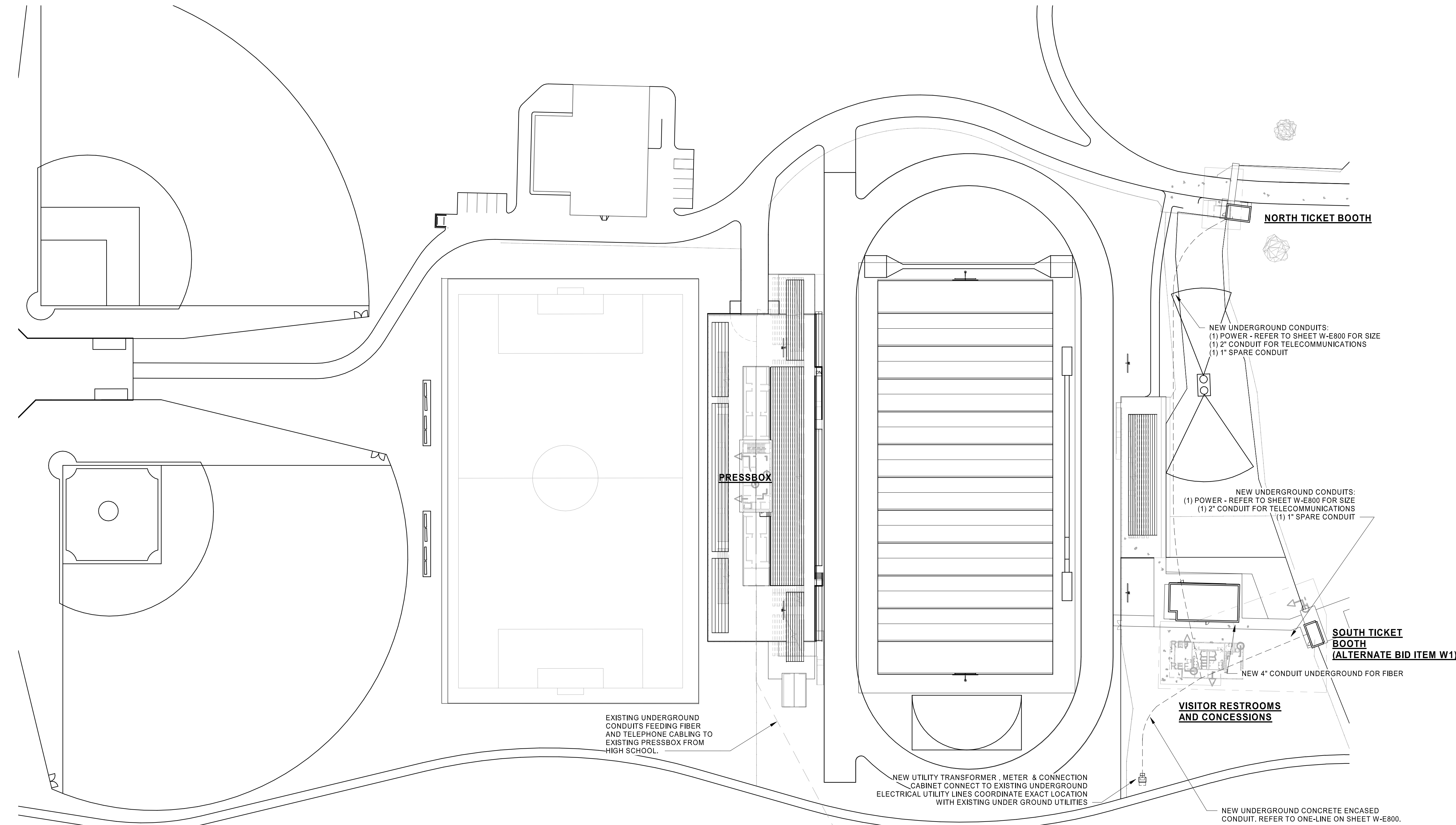
ELECTRICAL SITE PLAN

W-E001

BID SET

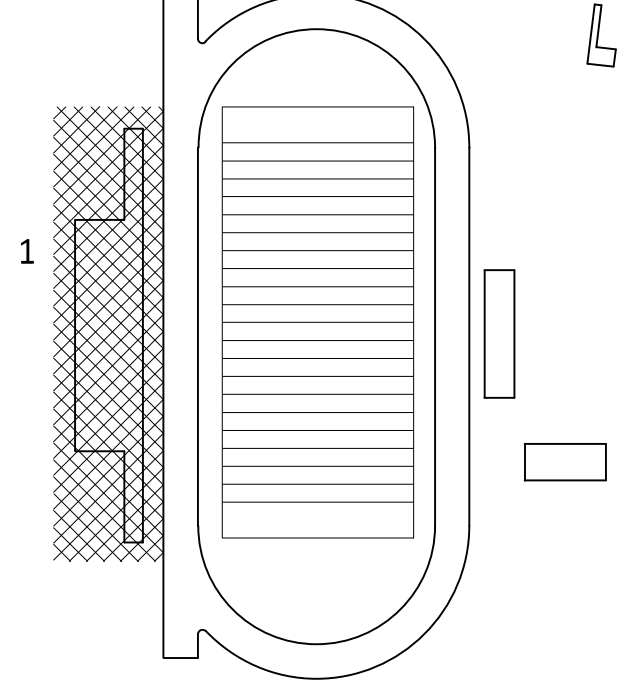
SITE ELECTRICAL GENERAL NOTES:

1. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
2. COORDINATE ALL SITE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER INFORMATION AND OTHER TRADES AND ADJUST ELECTRICAL PROVISIONS AS REQUIRED TO MEET REQUIREMENTS.
3. SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED OTHERWISE. COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
4. CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
5. MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE.
6. PROVIDE SPLICE AND PULL BOXES FOR SITE LIGHTING AND SITE ELECTRICAL POWER TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE; (COORDINATE FINAL LOCATION WITH CIVIL LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "ELECTRICAL". NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS; CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPLICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPLICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12". SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED.



1 ELECTRICAL SITE PLAN
1" = 50'-0"

Key Plan:



Lee's Summit R7 District
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PROJECT NO: 0119-0101
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HOME PRESS BOX -
LIGHTING RCPS

W-E111

BID SET

ELECTRICAL GENERAL NOTES:

1. HSE FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR AND EXISTING STAIRWELL LIGHTING CONTROLS.

ELECTRICAL LIGHTING LOAD NOTE:

LEVEL 2 LIGHTING CIRCUIT LOAD REMOVED: 1056VA
LEVEL 2 LIGHTING CIRCUIT LOAD ADDED: 576VA
OVERALL LIGHTING LOAD REDUCED.

ELECTRICAL PLAN NOTES:

- E10 MOUNT TAPE LIGHT TO THE FACE OF THE STRUCTURAL BEAM. MOUNT AS LOW ON BEAM AS POSSIBLE. FIXTURE INTENDED TO GRAZE THE ROOF. COORDINATE EXACT LOCATION WITH STRUCTURAL MEMBERS.
- E24 ROOF IS BEING REMOVED. CONTRACTOR TO PROTECT EXISTING ELECTRICAL PANELS TRANSFORMERS AND EQUIPMENT FROM CONSTRUCTION DEBRIS AND WEATHER DURING CONSTRUCTION. RE-WORK EXISTING CONDUITS AND CONDUCTORS FOR EQUIPMENT AS REQUIRED TO MAINTAIN EXISTING ELECTRICAL SYSTEM AND BRANCH CIRCUIT CONNECTIONS.
- E26 EXISTING LEVEL 2 LIGHT FIXTURES TO BE DEMOED AND CIRCUIT TO BE REUSED IN PROJECT SCOPE FOR NEW LIGHT FIXTURES.
- E28 CONNECT EXISTING STAIRWELL CIRCUIT AND LIGHTING CONTROLS TO NEW FIXTURES ON LEVEL ABOVE.
- E29 NEW LIGHTING LEVEL 2 TO BE INSTALLED IN DROP CEILING. COORDINATE EXACT FIXTURE LAYOUT WITH EXISTING CONDITIONS AND NEW DROP CEILING. CONNECT NEW LIGHT FIXTURES AND EXIT SIGNS TO EXISTING LEVEL 2 LIGHTING CIRCUIT. REWORK AND EXTEND EXISTING CONDUITS AND CONDUCTORS TO PROVIDE LIGHTING CONTROLS AS SHOWN
- E30 24V LED TAPE LIGHT TYPE L1 TO BE FED FROM NEMA-3R 0-10V DIMMING (1) AND (3) OUTPUT 277/24V 90W LED DRIVERS. REFER TO LIGHT FIXTURE SCHEDULE FOR DRIVER SPECIFICATIONS. COORDINATE PLACEMENT AND NUMBER OF DRIVERS WITH FIXTURE LENGTHS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

LIGHTING SUPPLEMENTAL SPECIFICATIONS:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
3. ALL EMERGENCY LIGHTS AND EXIT SIGNS WITH INTEGRAL BATTERY BACK-UP SHALL BE CONNECTED TO A SEPARATE UNSWITCHED CONDUCTOR BYPASSING ALL OTHER CONTROLS AND CONTACTORS. UNLESS NOTED OTHERWISE, EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING. ALLOW BATTERY TO CHARGE FOR A MINIMUM OF 48 HOURS BEFORE LIGHT LEVEL TESTING. IN ORDER TO PREVENT BATTERY DAMAGE, DO NOT TURN OFF POWER FOR EXTENDED PERIODS OF TIME AFTER EMERGENCY LIGHT HAS BEEN POWERED.
4. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS 'NEUTRAL FOR FUTURE USE'.
5. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
6. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSELY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX:MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING. UNLESS NOTED OTHERWISE, CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE. AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE. UNLESS NOTED OTHERWISE, EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
3. SUSPEND BACK OF HOUSE, RECEIVING AND STOCKROOM AREA LIGHT FIXTURES AS HIGH AS PRACTICABLE IN ORDER TO AVOID DAMAGE DURING STOCKING. UNLESS NOTED OTHERWISE, SUSPEND JUST BELOW REFRIGERATION PIPING, DUCTWORK AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.
4. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "INLUD-CKT" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
5. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCLOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

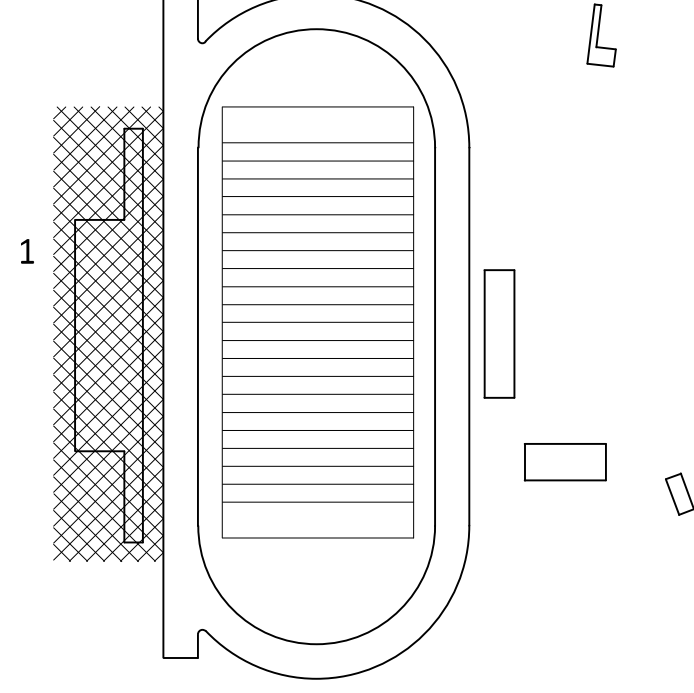
2 HOME PRESS BOX - LEVEL 2 LIGHTING RCP
1/8" = 1'-0"

1 HOME PRESS BOX - LIGHTING RCP
1/8" = 1'-0"

5 HOME PRESS BOX - LEVEL 2 LIGHTING DEMO PLAN
1/8" = 1'-0"

3 HOME PRESS BOX - LEVEL 3 LIGHTING RCP
1/8" = 1'-0"

Key Plan:



18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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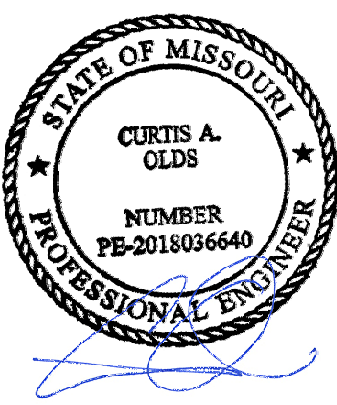
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HOME PRESS BOX -
POWER PLANS

W-E112

BID SET

ELECTRICAL GENERAL NOTES:

REFER TO SHEET W-E500 FOR ELEVATOR AND ELECTRICAL
EQUIPMENT PLANS.

ELECTRICAL PLAN NOTES:

E23 ROOF IS BEING REMOVED. CONTRACTOR TO MAINTAIN
EXISTING LEVEL 2 RECEPTACLE LOCATIONS AND
CIRCUITING. REWORK EXISTING CONDUITS AND WIRING AS
REQUIRED TO MAINTAIN EXISTING RECEPTACLE CIRCUITS.

E24 ROOF IS BEING REMOVED. CONTRACTOR TO PROTECT
EXISTING ELECTRICAL PANELS TRANSFORMERS AND
EQUIPMENT FROM CONSTRUCTION DEBRIS AND WEATHER
DURING CONSTRUCTION. RE-WORK EXISTING CONDUITS
AND CONDUCTORS FOR EQUIPMENT AS REQUIRED TO
MAINTAIN EXISTING ELECTRICAL SYSTEM AND BRANCH
CIRCUIT CONNECTIONS.

E25 VIDEO DECK RECEPTACLE TO BE SURFACE MOUNTED ON
COLUMN. RECEPTACLE WILL NEED TO SHARE SPACE WITH
DATA OUTLETS ON COLUMN. COORDINATE CONDUIT
ROUTING, RECEPTACLE PLACEMENT AND INSTALLATION
REQUIREMENTS WITH TECHNOLOGY PLANS,
ARCHITECTURAL PLANS AND FIELD CONDITIONS.

E27 MAINTAIN EXISTING CIRCUIT CONNECTIONS FOR EXISTING
BASEBOARD HEATERS. REWORK EXISTING CONDUITS AND
CONDUCTORS IF REQUIRED.

③ HOME PRESS BOX - LEVEL 3 POWER PLAN
1/8" = 1'-0"

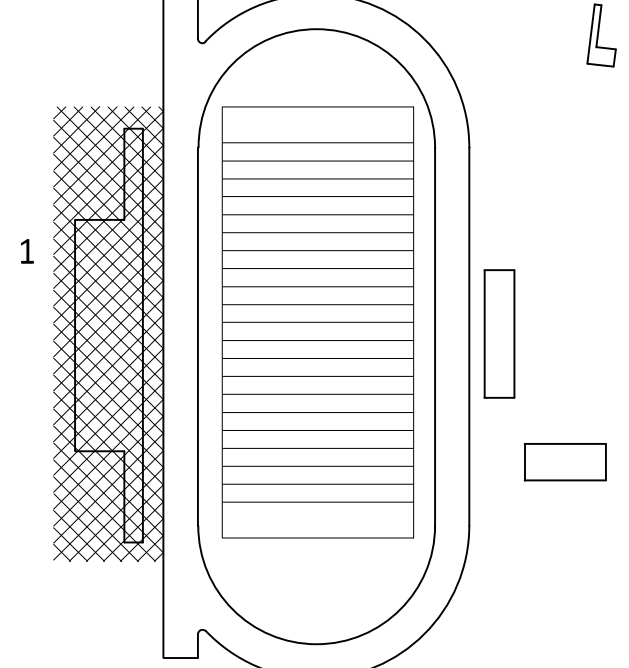
② HOME PRESS BOX - LEVEL 2 POWER PLAN
1/8" = 1'-0"

① HOME PRESS BOX - POWER PLAN
1/8" = 1'-0"

⑤ EQUIPMENT CONNECTION LEVEL 2 PLAN
1/8" = 1'-0"

④ HOME PRESS BOX - LEVEL 3 EQUIPMENT POWER PLAN
1/8" = 1'-0"

Key Plan:



CURTIS A. OLAUS

Lee's Summit R7 District
Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com

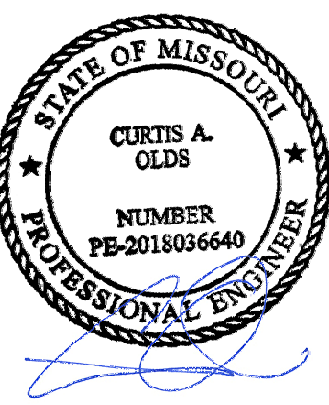
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
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2020030134
MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

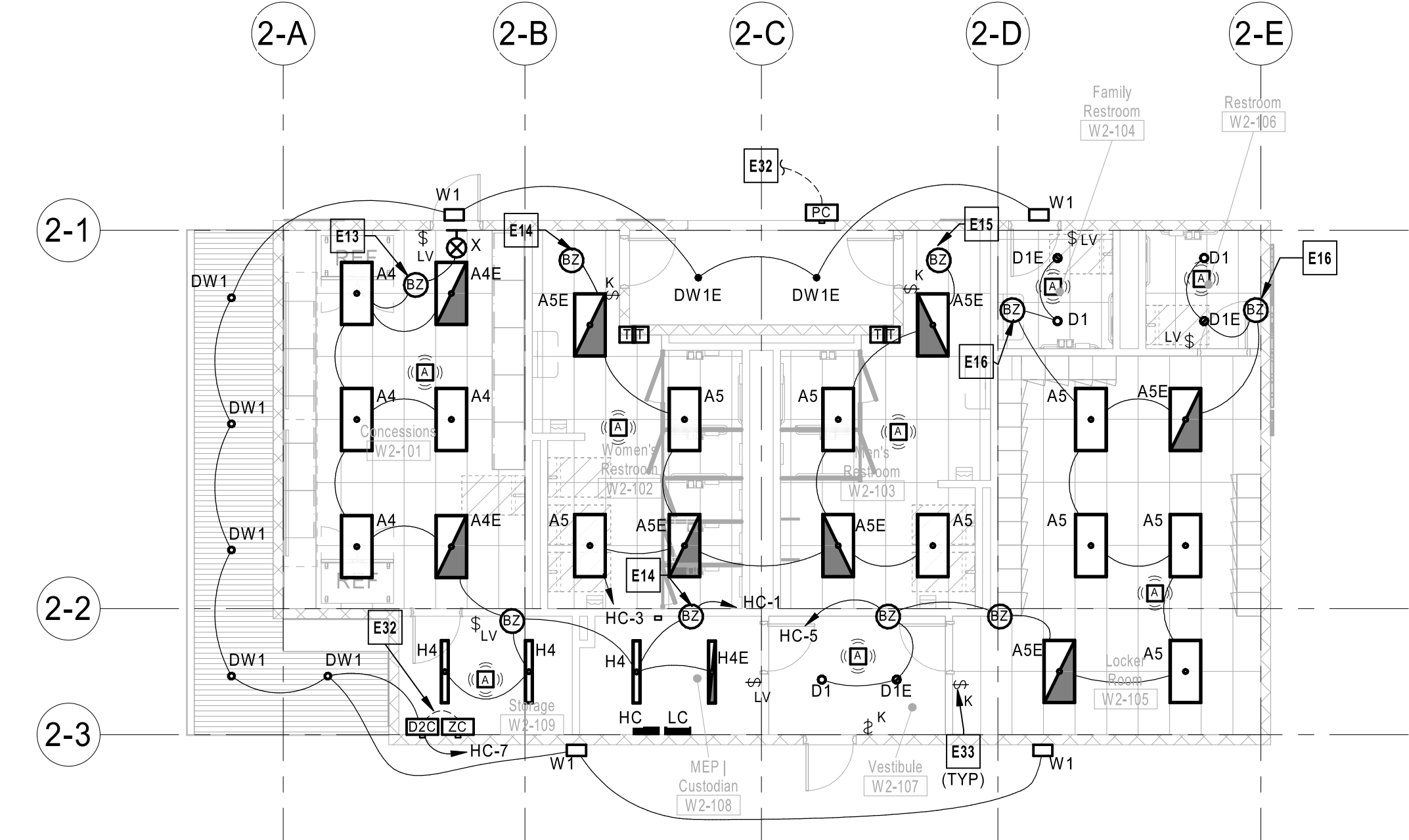
VISITOR RESTROOMS
& CONCESSIONS -
ELECTRICAL PLANS

W-E121

BID SET

ELECTRICAL PLAN NOTES:

- E13 EXHAUST FAN EF-1 TO BE CONTROLLED VIA CONCESSIONS 2-101 ROOM OCCUPANCY SENSOR IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE ADDITIONAL POWER PACK AND CONNECT TO LOW VOLTAGE LIGHTING CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS.
- E14 EXHAUST FAN EF-2 TO BE CONTROLLED VIA WOMEN'S RESTROOM 2-102 OCCUPANCY SENSOR IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE ADDITIONAL POWER PACK AND CONNECT TO LOW VOLTAGE LIGHTING CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS.
- E15 EXHAUST FAN EF-3 TO BE CONTROLLED VIA MEN'S RESTROOM 2-103 ROOM OCCUPANCY SENSOR IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE ADDITIONAL POWER PACK AND CONNECT TO LOW VOLTAGE LIGHTING CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS.
- E16 EXHAUST FAN EF-4 TO BE CONTROLLED VIA FAMILY RESTROOM 2-104 AND RESTROOM 2-105 OCCUPANCY SENSORS IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE (2) ADDITIONAL POWER PACKS IN PARALLEL AND CONNECT TO LOW VOLTAGE LIGHTING CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS.
- E20 CONTRACTOR TO ROUGH-IN POWER AND CONTROLLER FOR CONCESSION STAND TICKETING WINDOW COILING DOORS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E21 CONTRACTOR TO PROVIDE JUNCTION BOX AND 120V CONTROL POWER FOR HEATER DDC CONTROLS TRANSFORMER. COORDINATE EXACT LOCATION AND QUANTITY OF CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E22 CONTRACTOR TO PROVIDE JUNCTION BOX AND 120V CONTROL POWER FOR LOUVER MOTOR OPERATED DAMPERS. COORDINATE EXACT LOCATION AND QUANTITY OF CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E32 CONNECT LOW VOLTAGE WIRE TO ZONE CONTROLLER IN ROOM W2-109 TO PROVIDE PHOTO CELL AND TIME CLOCK CONTROL. REFER TO DETAIL 5 ON SHEET W-E700 FOR MORE INFORMATION.
- E33 PROVIDE KEYED SWITCH ON LOAD SIDE OF POWER PACK.



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ELECTRICAL GENERAL NOTES:

1. LIGHTING IS TO BE CIRCUITED BACK TO 208/120V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. ALL WIRING DEVICES ARE CIRCUITED TO 208/120V PANEL IN SAME BUILDING. CIRCUIT AS NOTED BY NUMBER ADJACENT TO DEVICE.
3. LIGHTING CONTROL DEVICES SHALL CONTROL ALL LIGHTING ASSOCIATED WITH THE TICKET BOOTH. REFER TO DETAIL 2 ON SHEET W-E700 FOR MORE INFORMATION.

ELECTRICAL PLAN NOTES:

E18 CONTRACTOR TO PROVIDE 70AB SERIES HEAVY DUTY TIMER AND LINE VOLTAGE CONTROLS WIRING FOR MANUAL CONTROL OF UNIT HEATER. COORDINATE REQUIRED TIME LENGTH WITH OWNER.

E19 PROVIDE WATTSTOPPER CB-100 LOW TEMPERATURE OCCUPANCY SENSOR OR EQUIVALENT.



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EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

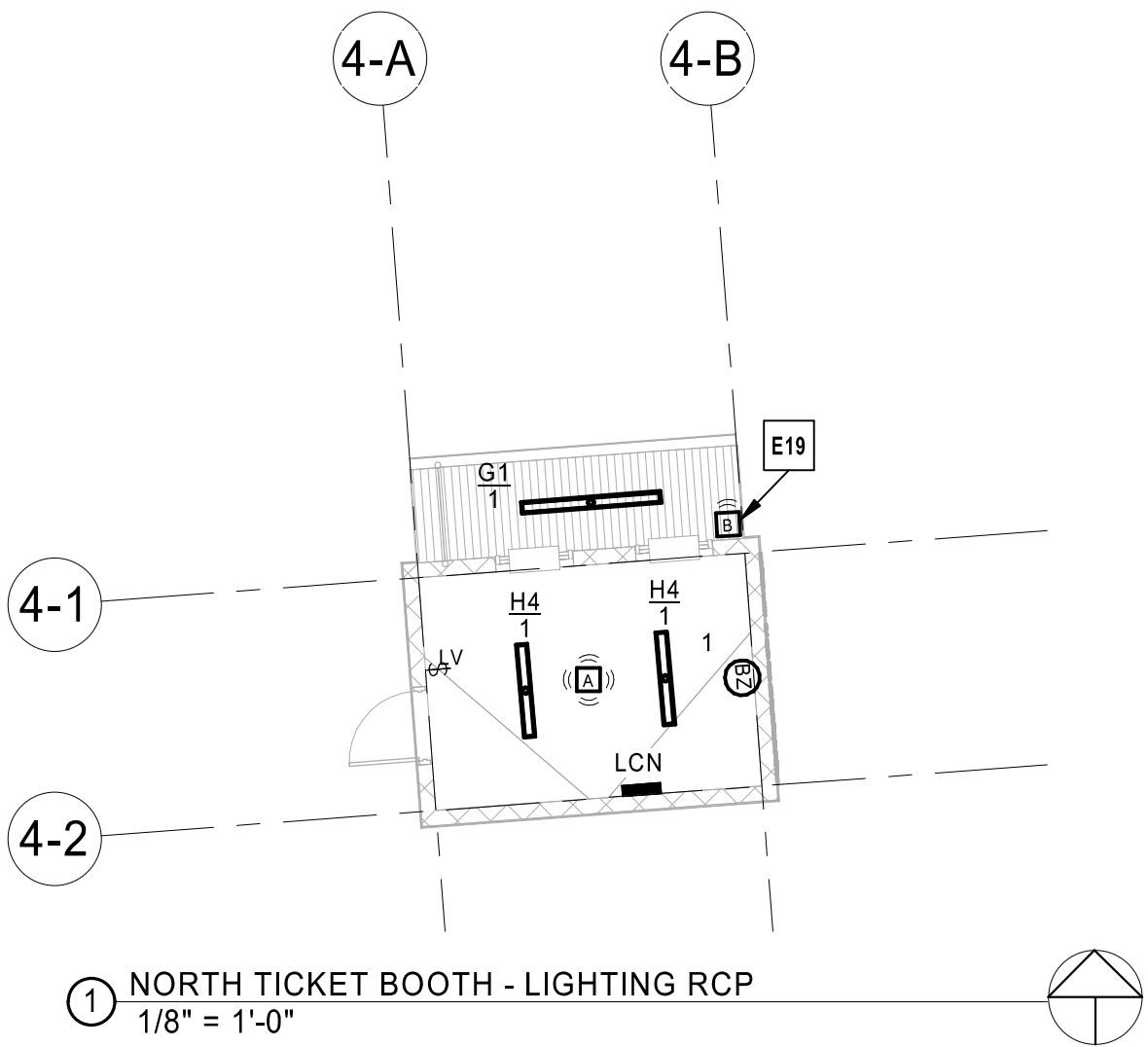
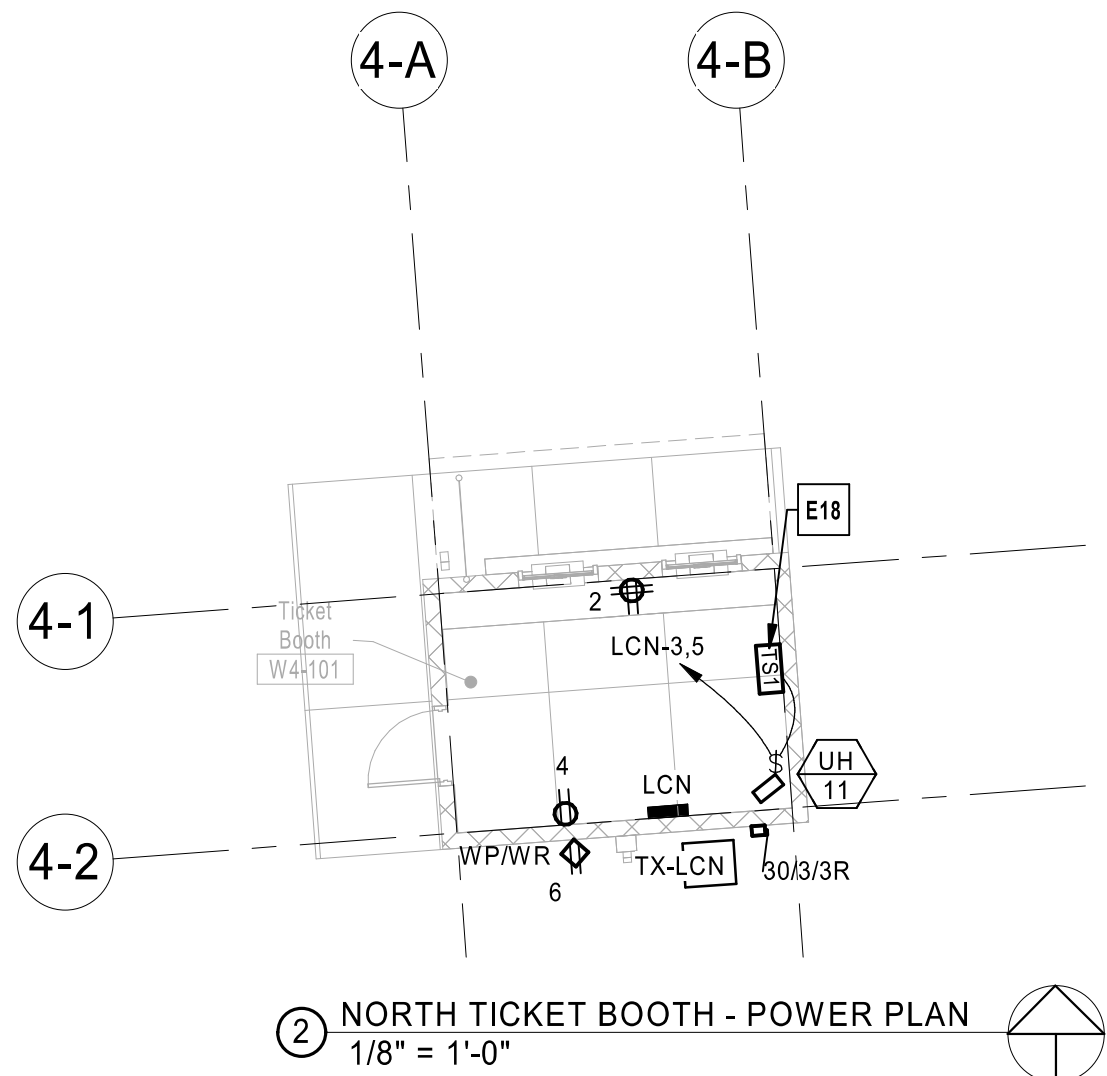
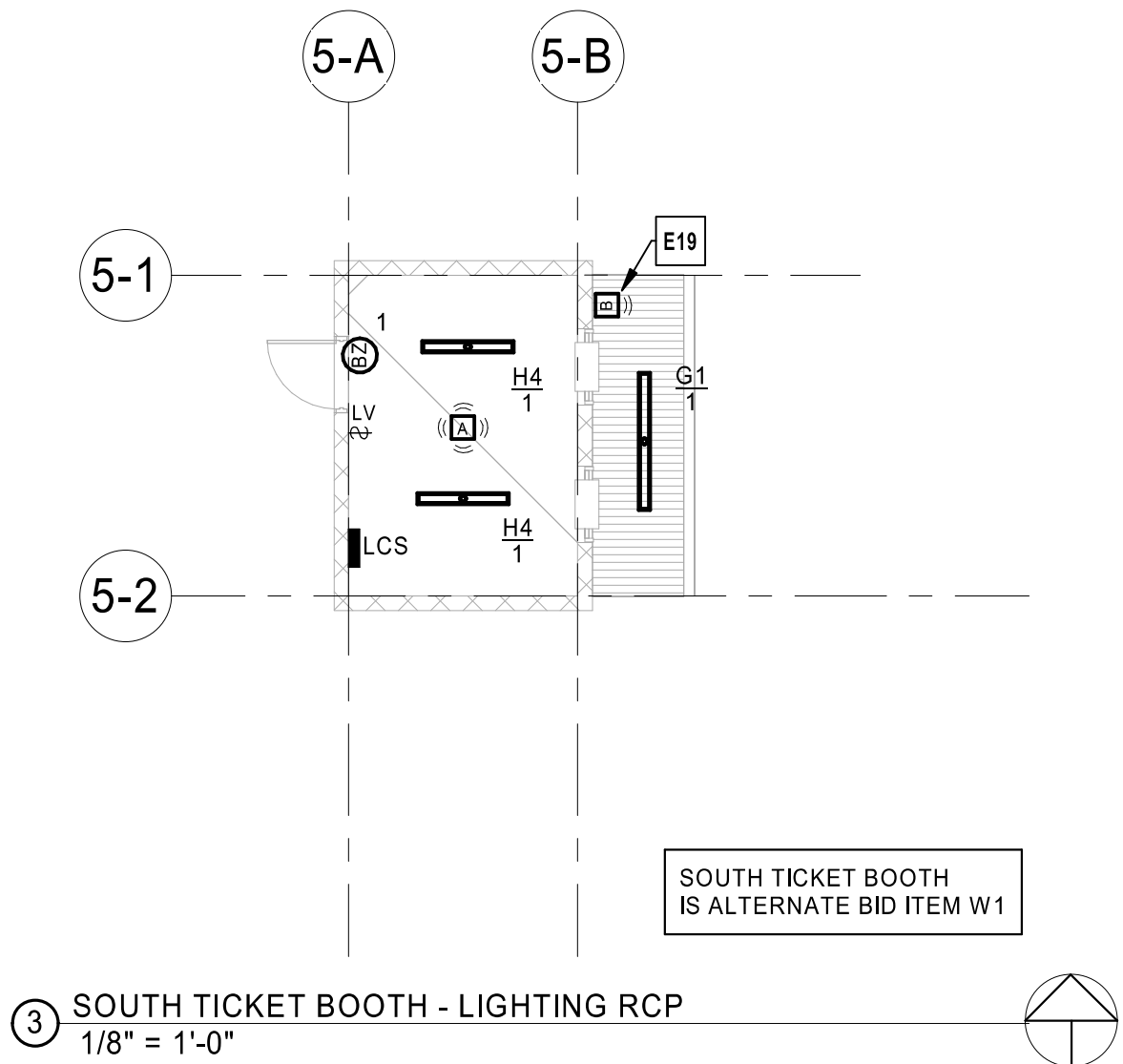
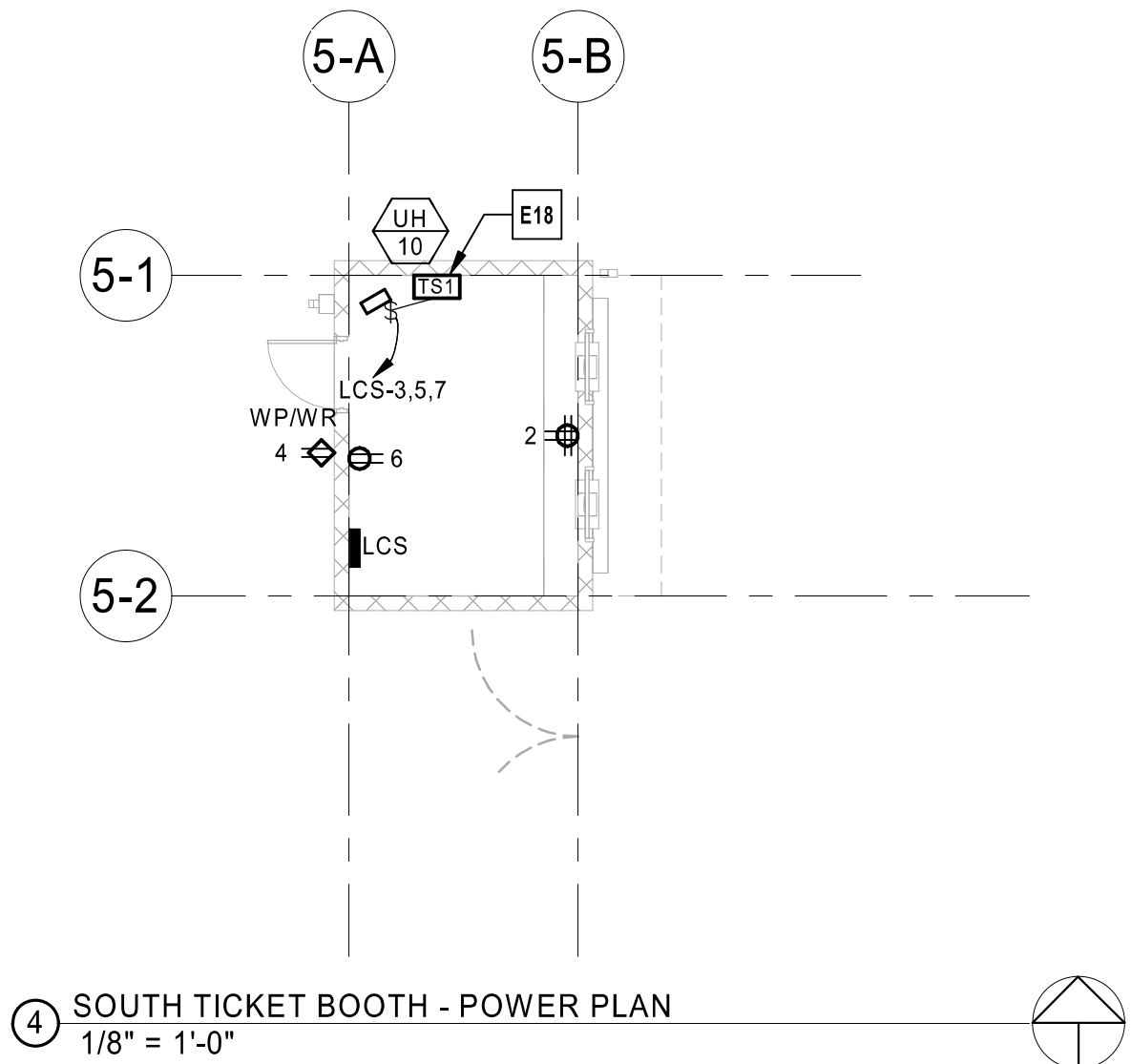
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PROJECT NO: 0119-0101
DATE: September 28, 2020

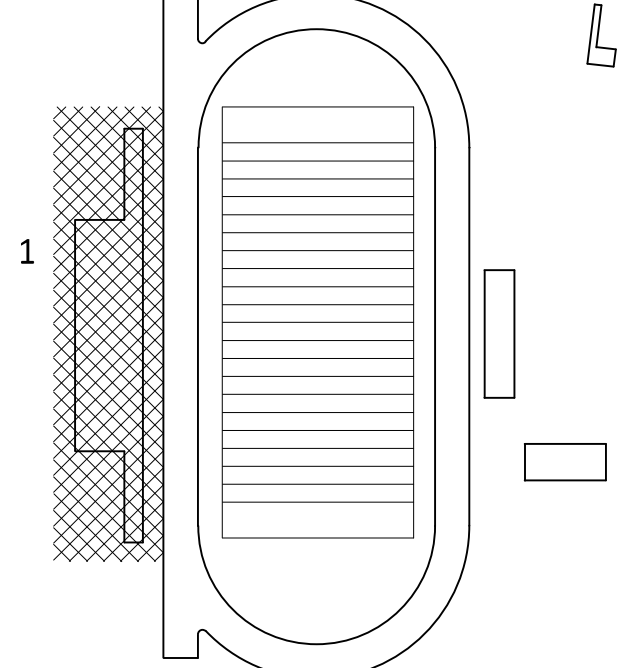
TICKET BOOTH -
ELECTRICAL PLANS

W-E131

BID SET



Key Plan:



Lee's Summit R7 District
Athletics Facilities

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Lee's Summit, MO 64082

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2050303134
MO. CORPORATE NO. E-556D
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REVISIONS		
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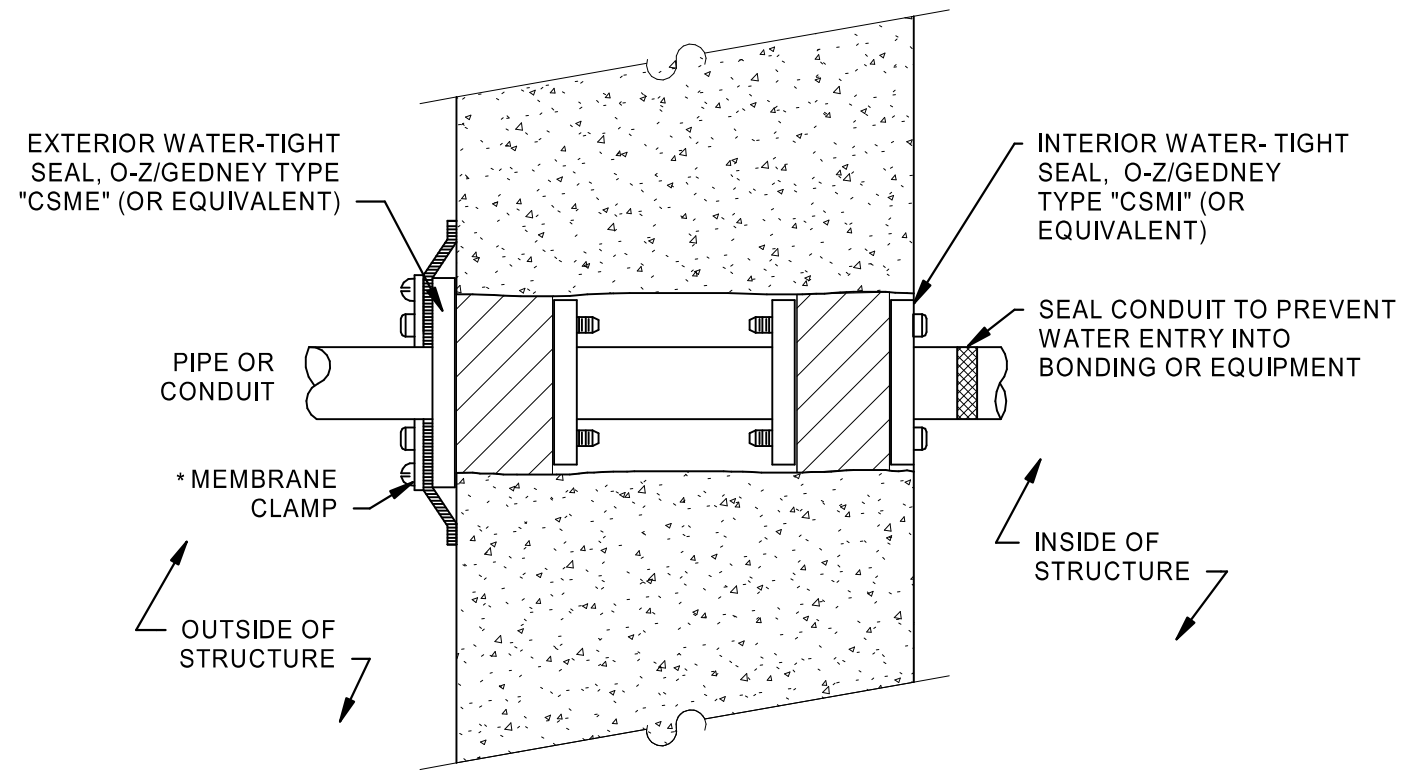
PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL DETAILS

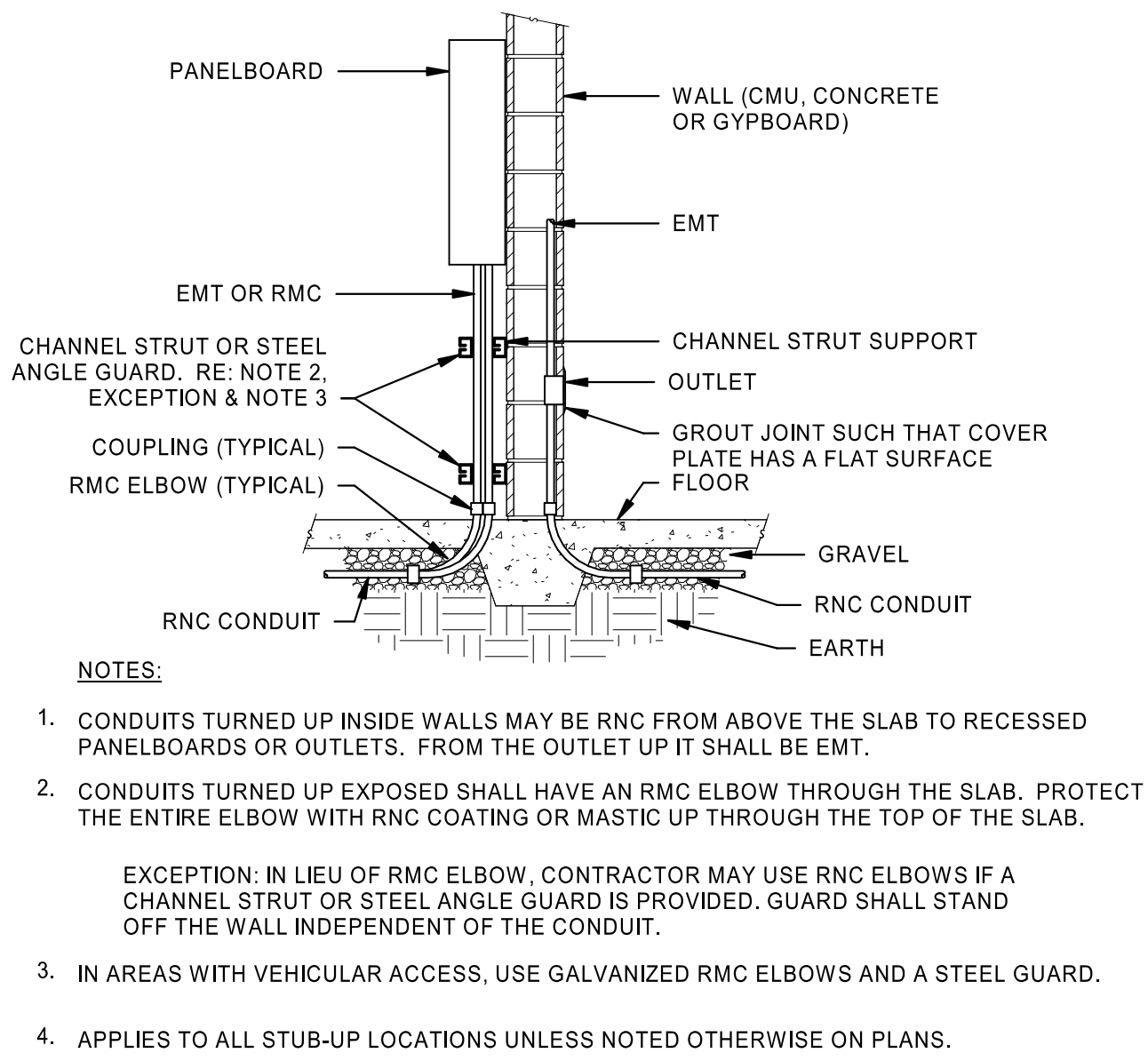
W-E500

BID SET

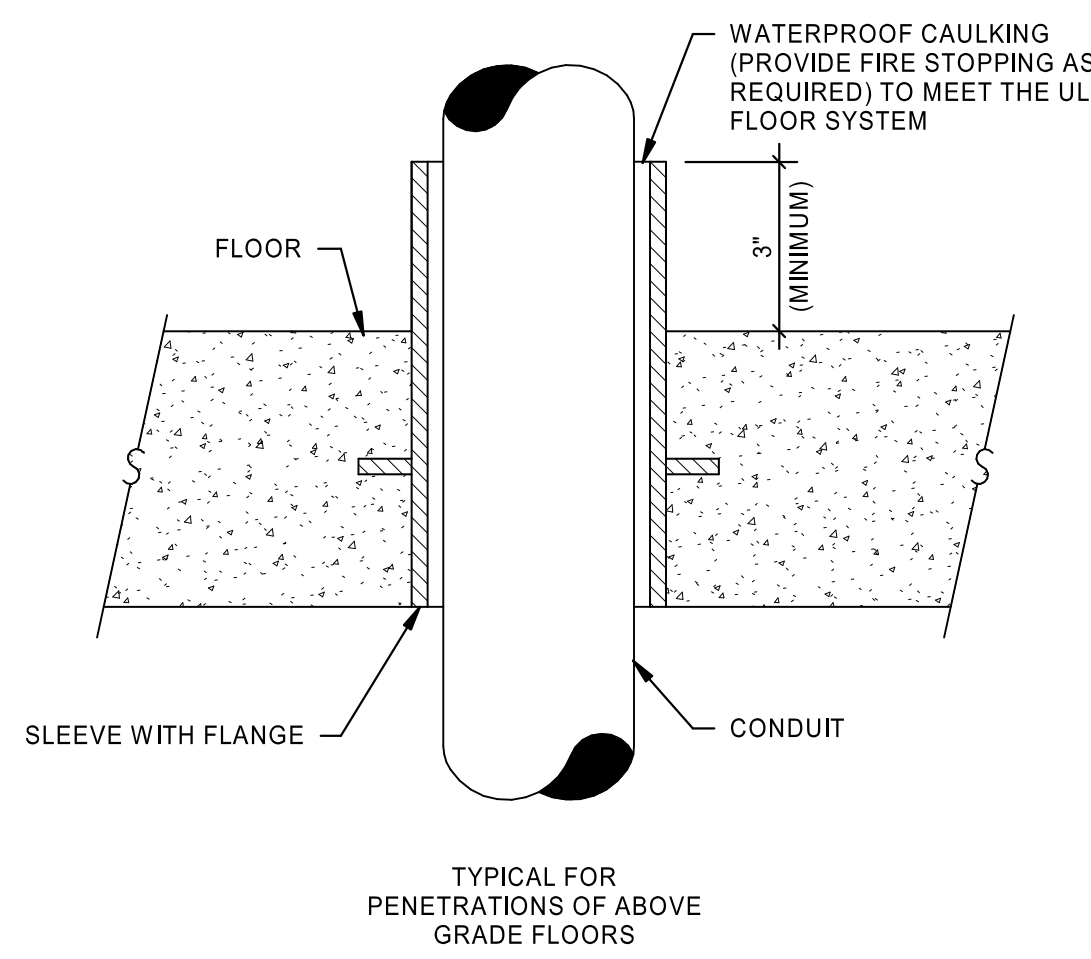
5 CONDUIT THROUGH EXISTING EXTERIOR WALL
NTS



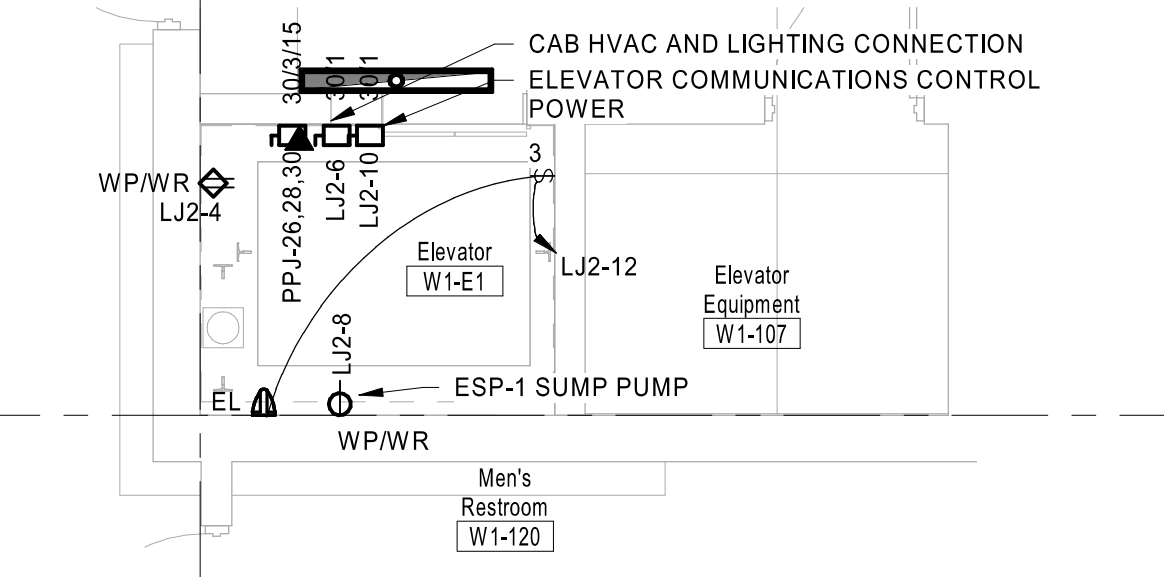
4 CONDUIT STUB-UP AT WALLS
NTS



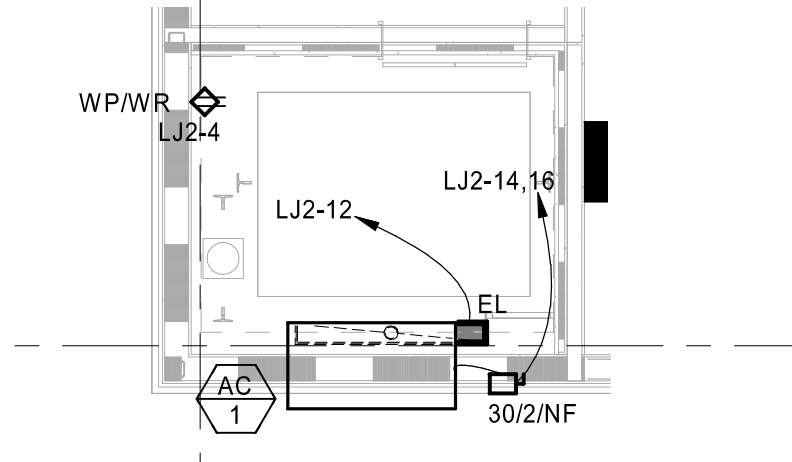
3 CONDUIT PENETRATION OF CONCRETE FLOOR
NTS



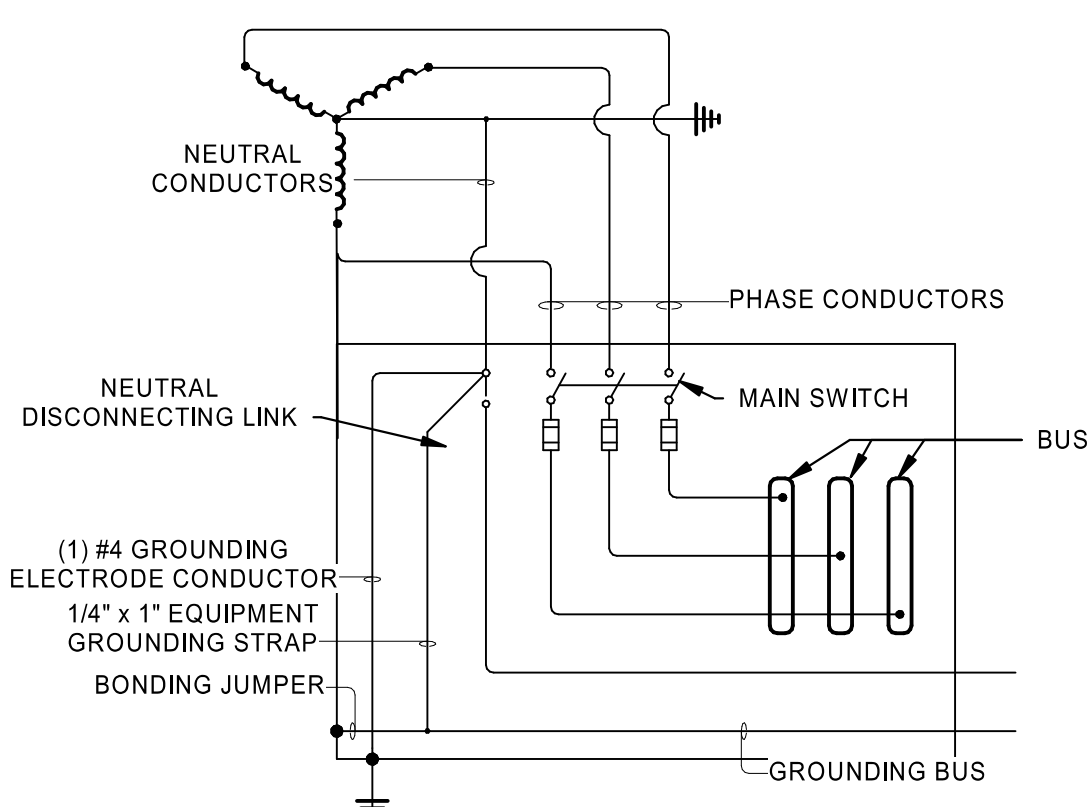
1 ELEVATOR - BOTTOM OF SHAFT
1/4" = 1'-0"



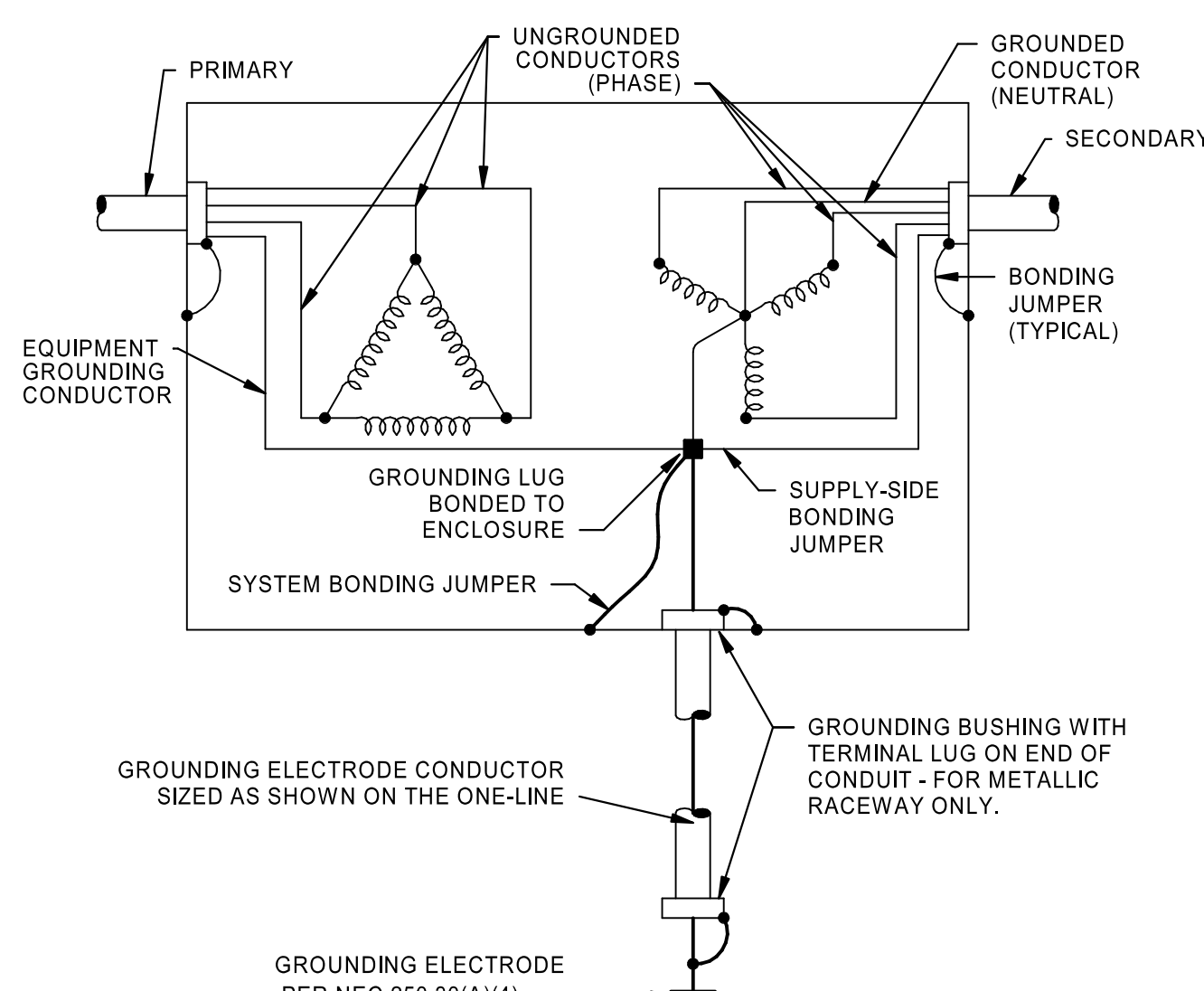
2 ELEVATOR - TOP OF SHAFT
1/4" = 1'-0"



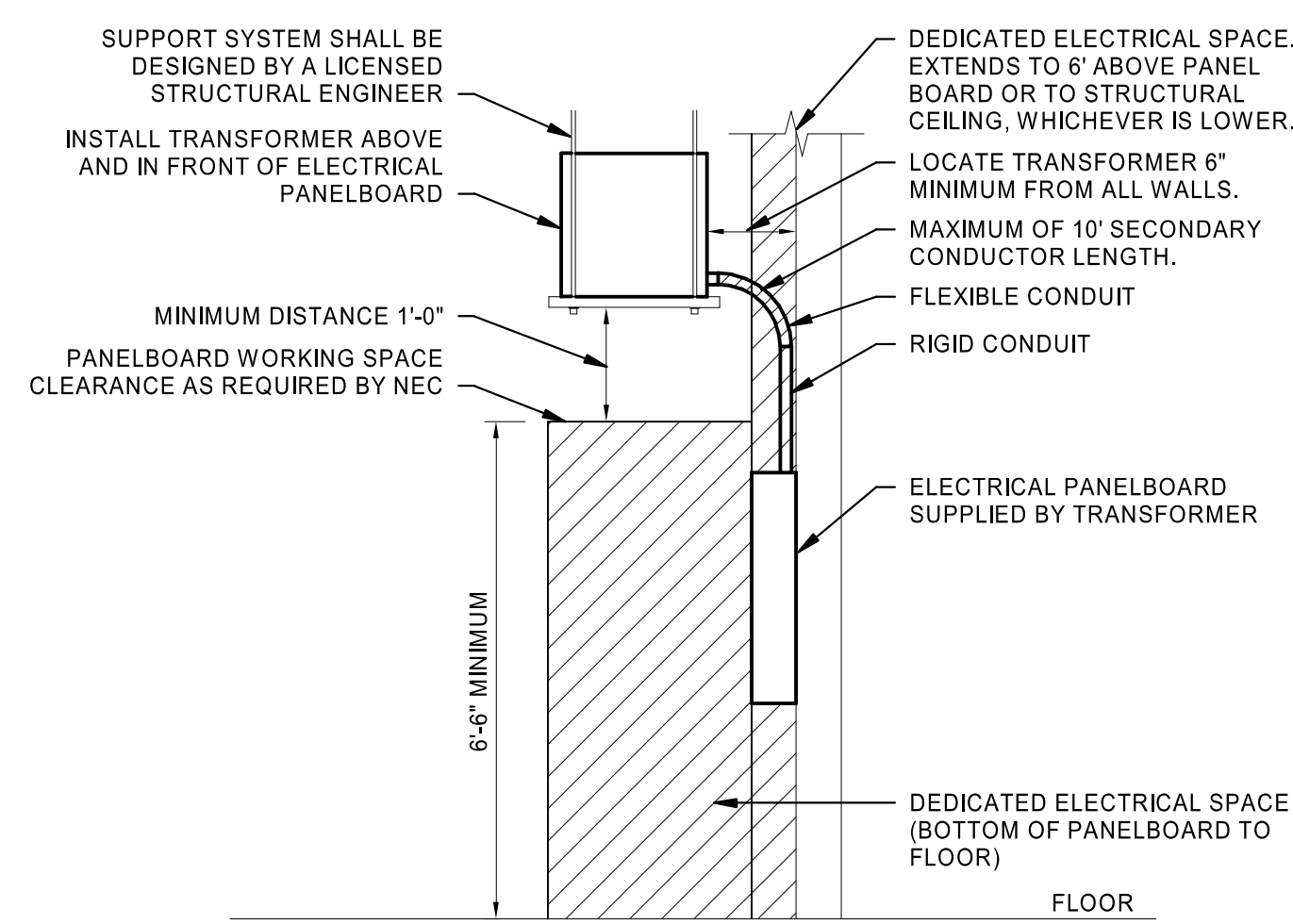
7 SERVICE ENTRANCE GROUNDING DIAGRAM
NTS



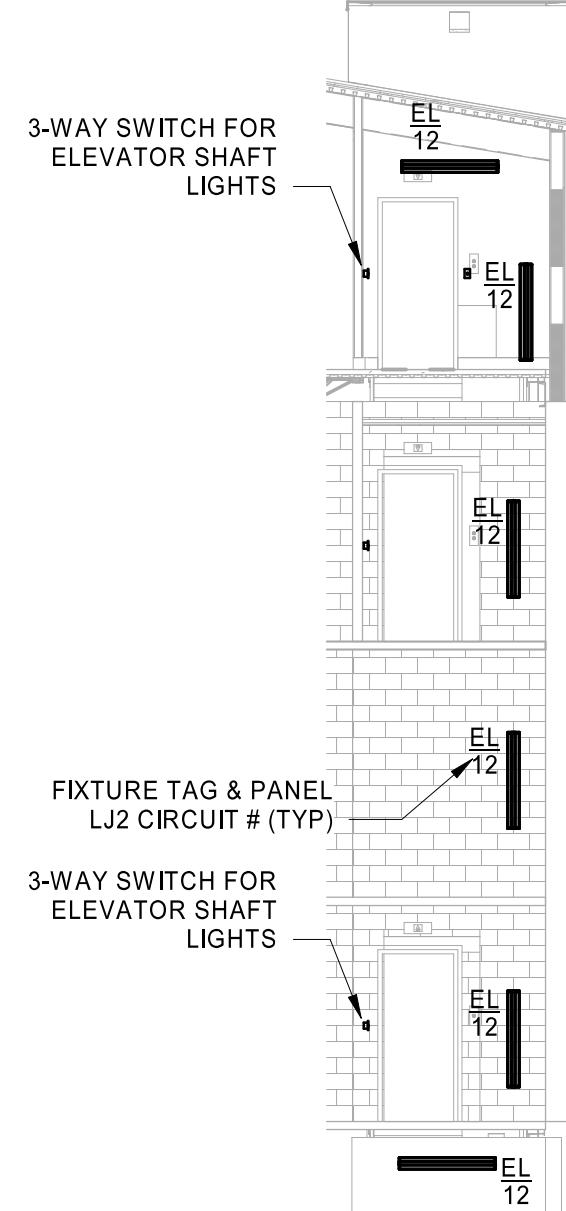
6 DRY TYPE TRANSFORMER GROUNDING
NTS



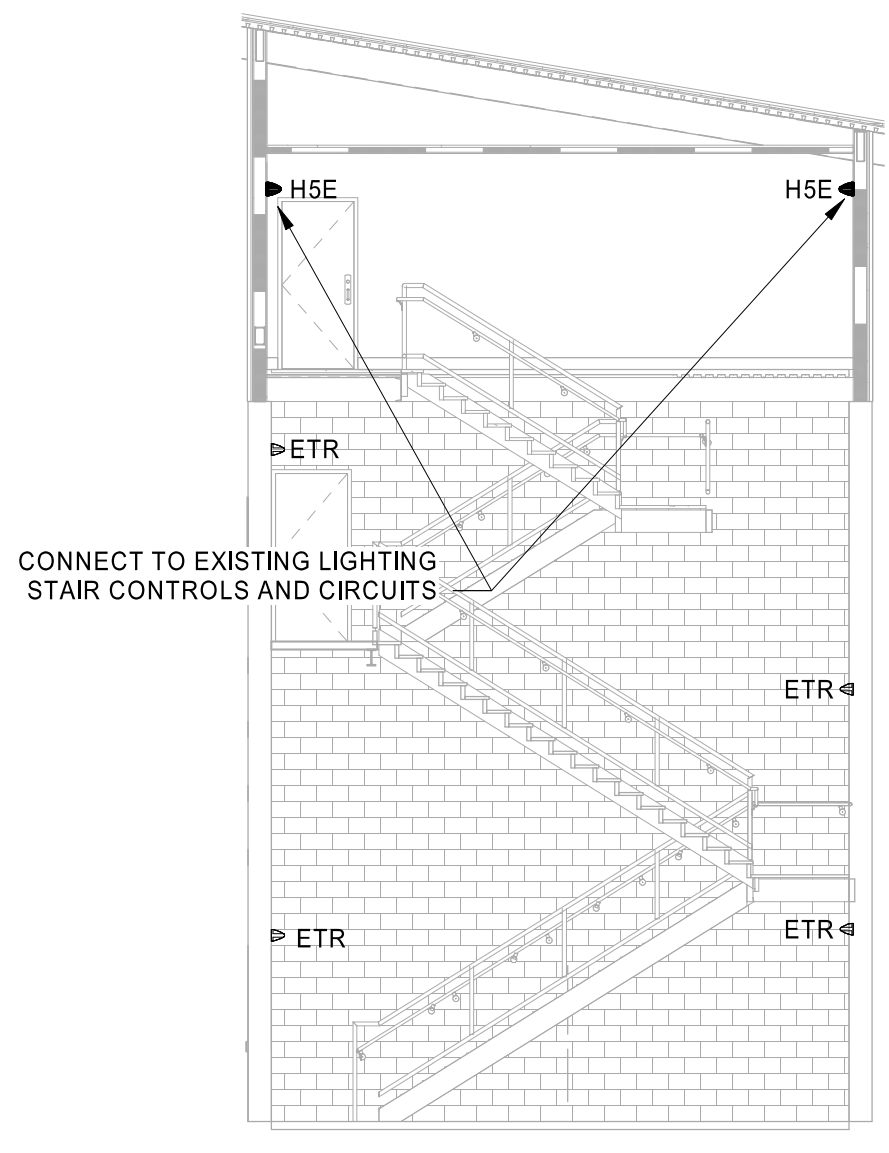
10 SUSPENDED TRANSFORMER MOUNTING DETAIL
NTS



9 ELEVATOR LIGHTING
1/8" = 1'-0"



8 STAIRS LIGHTING
1/8" = 1'-0"



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Sep 25 2020

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Number DESCRIPTION DATE

PROJECT NO: 0119-0101
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ELECTRICAL
SCHEDULES

W-E600

BID SET

PANELBOARD: HC (NEW)
BUS AMPS: 200A
MAIN SIZE/TYPE: 200A M.C.B.
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: CONCESSIONS ELECTRICAL SERVICE
SCHOOL
SERVICE SQUARE FOOTAGE: 1500
FAULT CURRENT: REFER TO ONE-LINE
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: Athletics
MOUNTING: SURFACE
LOCATION: MEP | Custodian W2-108

SERVICE														LINE-SIDE LUGS: MECHANICAL				
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
1	LTS -CON 101, MEP 108, STOR 109	L		12	20	1	281	2000			1	20	12		H	RH-1	2	
3	LTS - W RR 102, MENS RR103	L		12	20	1			432	2000		1	20	12	H	RH-2	4	
5	LTS -VEST107, LR105, RR104-105	L		12	20	1				462	5019		1	30	10	H	UH-9	6
7	LTS - EXTERIOR	LZ		12	20	1	480	3000				1	20	12	H	UH-8	8	
9	SPARE			20	1				0	3000		1	20	12	H	UH-7	10	
11	SPARE			20	1					0	5019		1	30	10	H	UH-4	12
13	SPARE			20	1	0	5019					1	30	10	H	UH-3	14	
15	SPARE			20	1				0	3000		1	20	12	H	UH-1	16	
17	SPARE			20	1					0	3000		1	20	12	H	UH-2	18
19	SPARE			20	1	0	1668					3	15	12			20	
21	SPARE			20	1				0	1668					H	UH-5	22	
23	SPARE			20	1					0	1668						24	
25	SPARE			20	1	0	1668					3	15	12	H	UH-6	26	
27	SPARE			20	1				0	1668							28	
29	SPARE			20	1					0	1668		3	15	12		30	
31	EQUIPPED SPACE			20	1	0	8000										32	
33	EQUIPPED SPACE			20	1				0	8000					U	WH-1	34	
35	EQUIPPED SPACE			20	1					0	8000		3	40	8		36	
37						5740	465										38	
39	TX-LC, PANEL LC	--		OIL	50	3			6411	1680		3	30	O/L	LR	TX-LCN, PANEL LCN	40	
41										6199	1680						42	
TOTAL LOAD (VA):							28320 VA		27859 VA		32715 VA							
TOTAL AMPS:							102 A		101 A		118 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES	PANELBOARD TOTALS
EXISTING LOAD (E)	0 VA	100%	0 VA		TOTAL CONNECTED LOAD 91535 VA
COOLING (C)	0 VA	0%	0 VA		TOTAL NEC LOAD 92960 VA
HEATING (H)	49066 VA	100%	49066 VA		TOTAL CONNECTED CURRENT 110 A
LIGHTING (L) (PER NEC-220)	4500 VA	125%	5625 VA		TOTAL NEC DEMAND CURRENT 112 A
RECEPTACLES (R)	6660 VA	100%	6660 VA		
MOTORS (M)	3504 VA	100%	3504 VA		
SUPPLEMENTAL HEAT (U)	24000 VA	100%	24000 VA		
MISC EQUIP (Z)	605 VA	100%	605 VA		
REFRIGERATION (F)	0 VA	100%	0 VA		
SIGN/DISPLAY (D)	0 VA	125%	0 VA		
KITCHEN (K)	2000 VA	100%	2000 VA		
LARGEST MOTOR	1200 VA	125%	1500 VA		
SHOW WINDOW (W)	0 VA	125%	0 VA		
TRACK LIGHTING	0 VA	100%	0 VA		

PANELBOARD: LC (NEW)
BUS AMPS: 100A
MAIN SIZE/TYPE: 100A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: HC VIA TX-LC
FAULT CURRENT: REFER TO ONE-LINE
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: Concessions
MOUNTING: SURFACE
LOCATION: MEP | Custodian W2-108

LINE-SIDE LUGS: MECHANICAL																			
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.			
1	RCPTS - EXTERIOR, RR104-105	R		12	20	1	720	180		1	20	12		R	RCPTS - AC, CON 101-1	2			
3	RCPTS-RR102,103, MEP108	R		12	20	1		540	180		1	20	12	R	RCPTS - AC, CON 101-2	4			
5	RCPTS - STOR 109 EXTERIOR	R		12	20	1			360	180		1	20	R	RCPTS - AC, CON 101-3	6			
7	RCPTS - LOCKER RM 105	R		12	20	1	720	180		1	20	12		R	RCPTS - AC, CON 101-4	8			
9	TF-1,2,3,4	M		12	20	1		480	1000		1	20	12	GF	K	REFRIGERATOR - CON 101	10		
11	RP-1	M		12	15	1			48	1200		1	20	12	M	COILING DOOR TICKETING	12		
13	EF-1	M		12	20	1	444	180		1	20	12		R	RCPT - CON 101 TICKET AC	14			
15	EF-2	M		12	20	1		444	360		1	20	12	R	RCPT - CON 101 TICKET 1	16			
17	EF-3	M		12	20	1			444	360		1	20	12	R	RCPT - CON 101 TICKET 2	18		
19	EF-4	M		12	20	1	444	360		1	20	12		R	RCPT - CON 101 TICKET 3	20			
21	LOUVER CONTROL POWER	Z		12	20	1		200	360		1	20	12	R	RCPT - CON 101 TICKET 4	22			
23	DDO CONTROL POWER	Z		12	20	1			200	1200		1	20	12	M	COILING DOOR TICKETING	24		
25	PWR - PLUMBING FIXTURES	Z		12	20	1	200	180		1	20	12		R	RCPT - CON 101 TICKET AC	26			
27	SPARE			20	1			0	1000		1	20	12	GF	K	REFRIGERATOR - CON 101	28		
29	SPARE			20	1					0	360		1	20	R	RCPT - DATA RACK IN STORAGE RM	30		
31	EQUIPPED SPACE					1	0	0				1	20			SPARE			32
33	EQUIPPED SPACE					1		0	0			1	20			SPARE			34
35	EQUIPPED SPACE					1			0	0		1	20			EQUIPPED SPACE			36
37	EQUIPPED SPACE					1	2132	0				1	20			EQUIPPED SPACE			38
39	PANEL LCS	L R		OL	50	3		1847	0		1847	0		1		EQUIPPED SPACE			40
41																EQUIPPED SPACE			42
TOTAL LOAD (VA):							5740 VA	6411 VA	6199 VA										
TOTAL AMPS:							48 A	54 A	52 A										

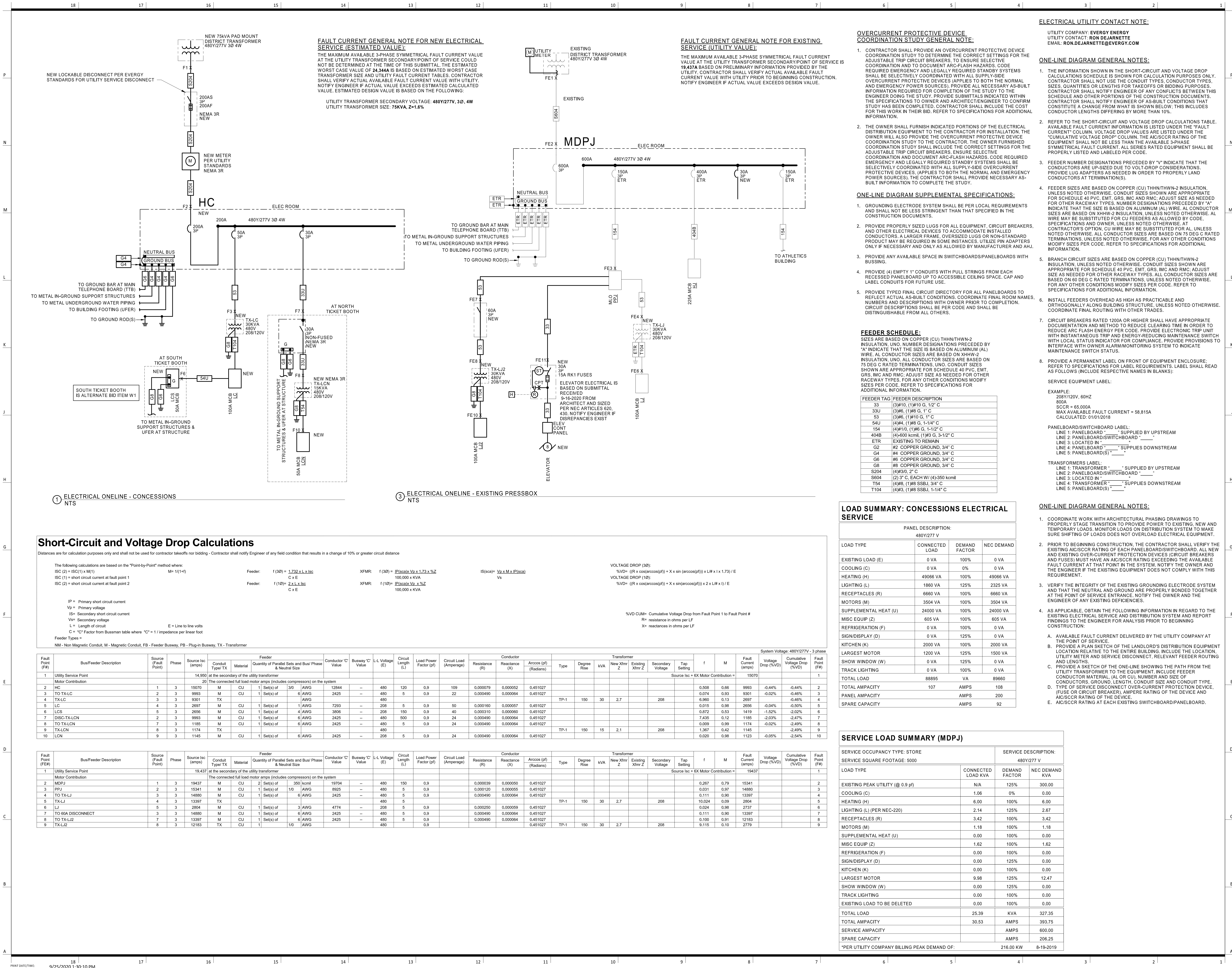
LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES	PANELBOARD TOTALS
EXISTING LOAD (E)	0 VA	100%	0 VA	GF - GFCI TYPE CIRCUIT BREAKER	TOTAL CONNECTED LOAD 18349 VA
COOLING (C)	0 VA	0%	0 VA		TOTAL NEC LOAD 18875 VA
HEATING (H)	5000 VA	100%	5000 VA		TOTAL CONNECTED CURRENT 51 A
LIGHTING (L)	105 VA	125%	131 VA		TOTAL NEC DEMAND CURRENT 52 A
RECEPTACLES (R)	5840 VA	100%	5840 VA		
MOTORS (M)	3504 VA	100%	3504 VA		
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA		
MISC EQUIP (Z)	600 VA	100%	600 VA		
REFRIGERATION (F)	0 VA	100%	0 VA		
SIGN/DISPLAY (D)	0 VA	125%	0 VA		
KITCHEN (K)	2000 VA	100%	2000 VA		
LARGEST MOTOR	1200 VA	125%	1500 VA		
SHOW WINDOW (W)	0 VA	125%	0 VA		
TRACK LIGHTING	0 VA	100%	0 VA		

PANELBOARD: LCS (NEW)
BUS AMPS: 100A
MAIN SIZE/TYPE: 50A M.C.B.
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: LC
FAULT CURRENT: REFER TO ONE-LINE
AIC RATED: FULLY RATED
AIC RATING: FCA +10% MINIMUM
SERVES: TICKET BOOTH SOUTH
MOUNTING: SURFACE
LOCATION: Ticket Booth W5-101

LINE-SIDE LUGS: MECHANICAL																			
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR SIZE	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	LTS - TICKET BOOTH SOUTH	L		12	20	1	105	360					1	20			R	RCPTS - TICKETING	2
3									1667	180			1	20			R	RCPTS - EXTERIOR	4
5	UH-10	H		12	20	3					1667	180	1	20			R	RCPTS - GEN INTERIOR	6
7	SPARE				20	1	1667	0					1	20				SPARE	8
9	SPARE				20	1			0	0			1	20				SPARE	10
11	SPARE				20	1					0	0	1	20				SPARE	12
13	SPARE				20	1	0	0	0				1	20				SPARE	14
15	SPARE				20	1			0	0			1	20				SPARE	16
17	SPARE				20	1					0	0	1	20				SPARE	18
19	EQUIPPED SPACE				20	1	0	0	0				1	20				EQUIPPED SPACE	20
21	EQUIPPED SPACE								0	0			1	20				EQUIPPED SPACE	22
23	EQUIPPED SPACE					1					0	0	1	20				EQUIPPED SPACE	24
TOTAL LOAD (VA):							2132 VA		1847 VA		1847 VA								
TOTAL AMPS:							18 A		15 A		15 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES	PANELBOARD TOTALS
EXISTING LOAD (E)	0 VA	100%	0 VA		TOTAL CONNECTED LOAD 5825 VA
COOLING (C)	0 VA	0%	0 VA		TOTAL NEC LOAD 5851 VA
HEATING (H)	5000 VA	100%	5000 VA		TOTAL CONNECTED CURRENT 16 A
LIGHTING (L)	105 VA	125%	131 VA		TOTAL NEC DEMAND CURRENT 16 A
RECEPTACLES (R)	720 VA	100%	720 VA		
MOTORS (M)	0 VA	100%	0 VA		
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA		
MISC EQUIP (Z)	0 VA	100%	0 VA		
REFRIGERATION (F)	0 VA	100%	0 VA		
SIGN/DISPLAY (D)	0 VA	125%	0 VA		
KITCHEN (K)	0 VA	100%	0 VA		
LARGEST MOTOR	0 VA	125%	0 VA		
SHOW WINDOW (W)	0 VA	125%	0 VA		
TRACK LIGHTING	0 VA	100%	0 VA		

PANELBOARD LEGEND	
ABBREVIATIONS	
AF	ARC FAULT CIRCUIT INTERRUPTER.
CS	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD, NOTE AS SPARE AND TURN OFF.



goulddevans

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Lee's Summit R7 District Athletics Facilities

Lee's Summit West High School
2600 SW Ward Road
Lee's Summit, MO 64082

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66225
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
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WWW.HENDERSONENGINEERS.COM

MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020

REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL ONE-LINE DIAGRAM

W-E800

BID SET

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2050203134
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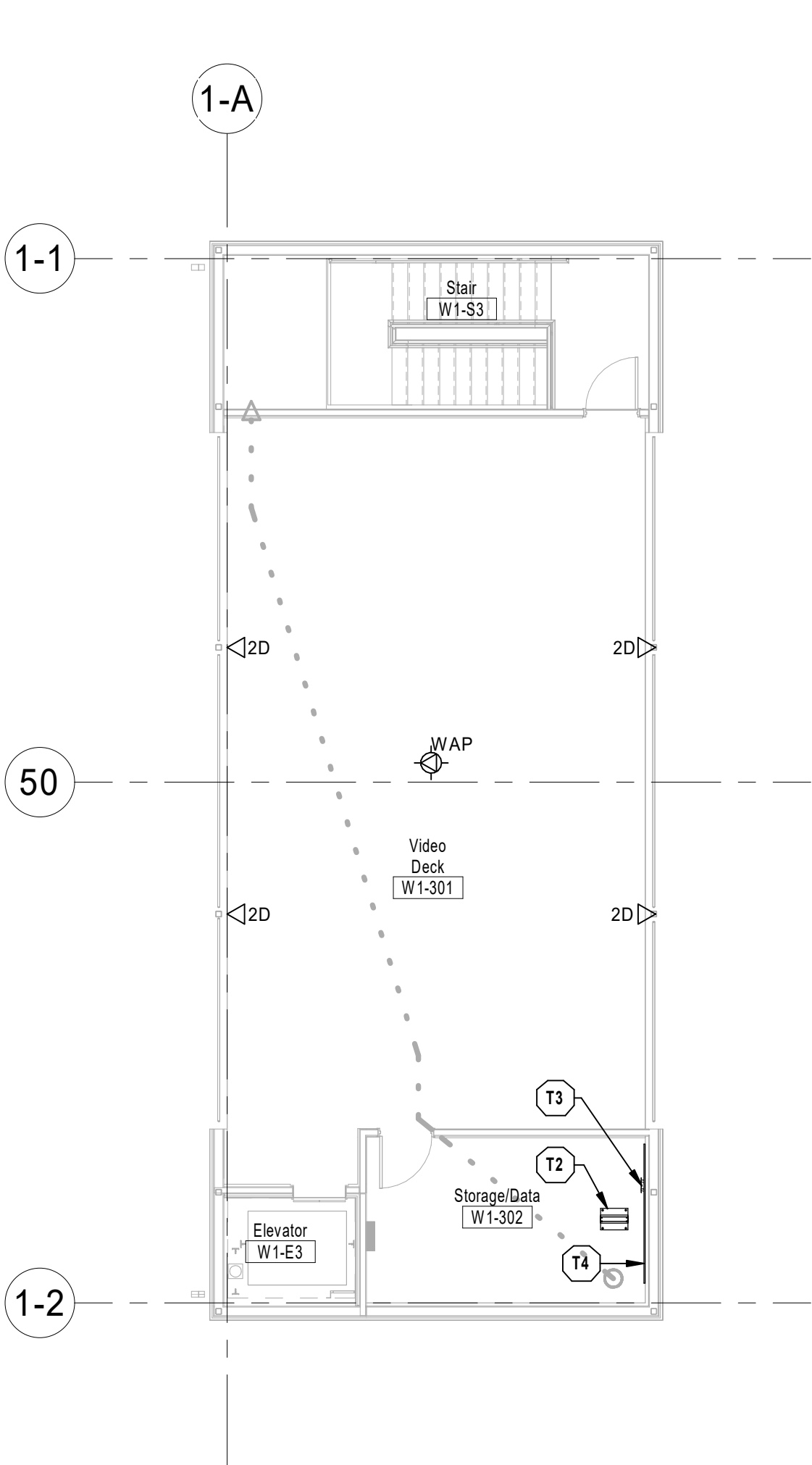
HOME PRESS BOX -
TECHNOLOGY PLANS

W-TN111

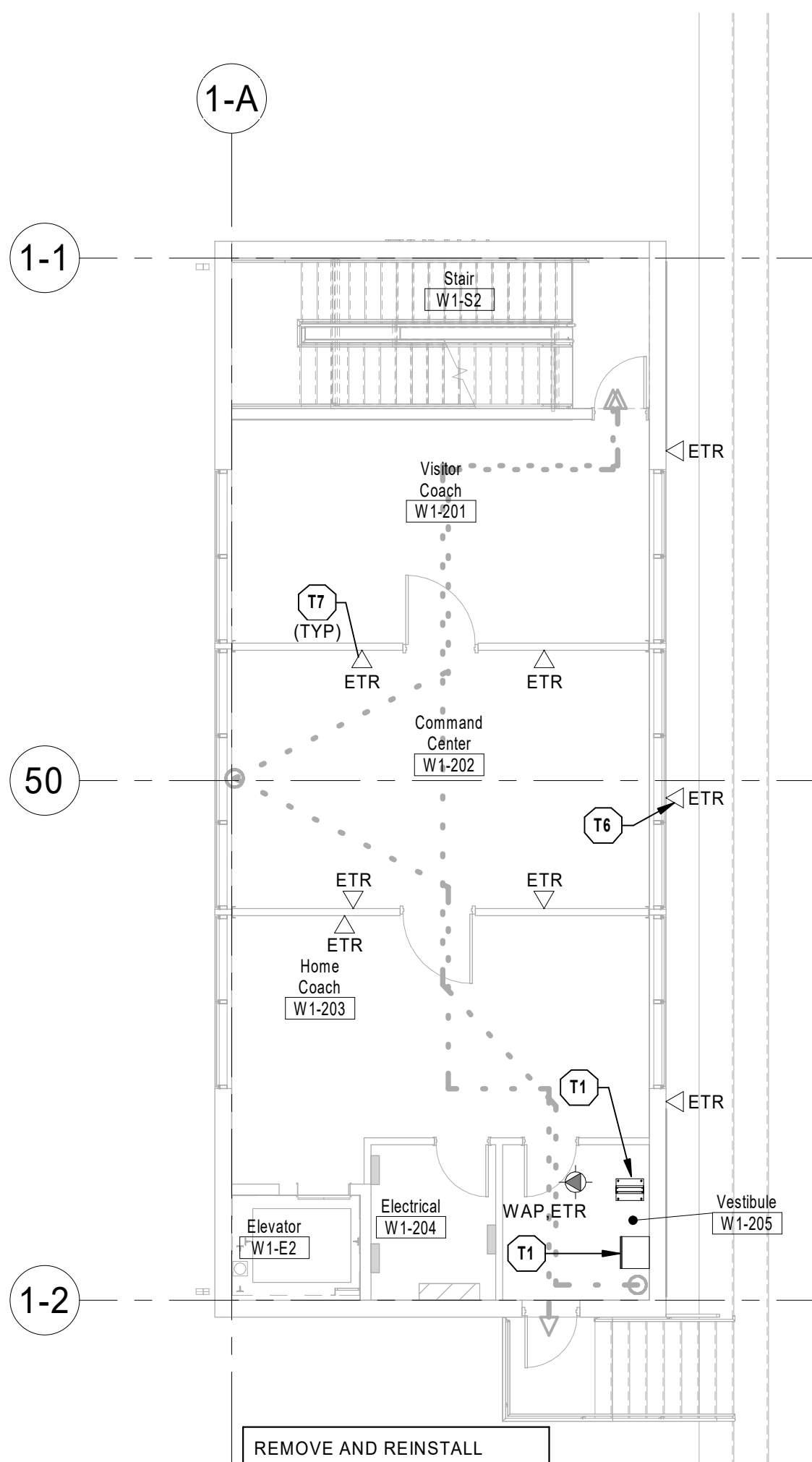
BID SET

TECHNOLOGY PLAN NOTES:

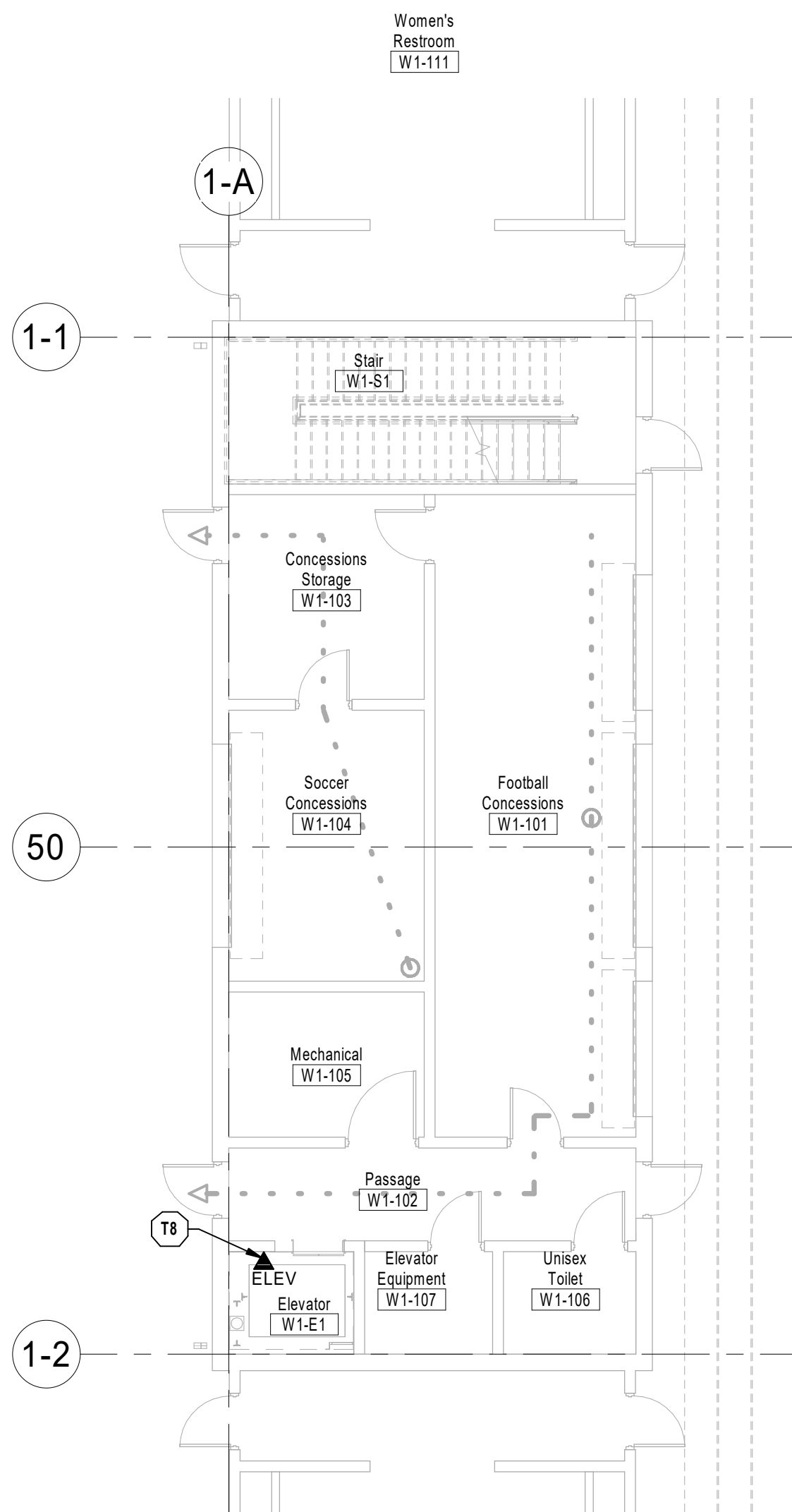
- T1 EXISTING RACK TO BE RELOCATED. CONTRACTOR TO PROVIDE OWNER 7 DAYS NOTICE FOR RACK REMOVAL FOR OWNER TO REMOVE FROM CONSTRUCTION AREA AND PROTECT RACK.
- T2 NEW LOCATION FOR INSTALLATION OF EXISTING RACK AFTER CAMERA DECK ERECTION IS COMPLETE. PULL NEW 6 STRANDS OF SINGLE MODE FIBER CABLE FROM LSW MAIN TELECOM ROOM. COORDINATE LOCATION AND PATHWAY WITH OWNER.
- T3 TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) MOUNTED AT 7'-0" AFF. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T4 TELECOMMUNICATIONS BACKBOARD. GRADE A/C 3/4" FIRE RATED PLYWOOD BACKBOARD (UNPAINTED) AT LEAST 4'-0"x4'-0" MOUNTED ON WALL BEHIND RACK AS SHOWN ON PLANS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T6 EXISTING HUDL CAMERA TO REMAIN.
- T7 DATA OUTLET EXISTING TO REMAIN. PROVIDE NEW CABLING RUN TO RELOCATED RACK IN STORAGE/DATA W1-302.
- T8 ELEVATOR PHONE OUTLET. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR PROVIDER.



③ HOME PRESS BOX - LEVEL 3 TECHNOLOGY PLAN
1/8" = 1'-0"

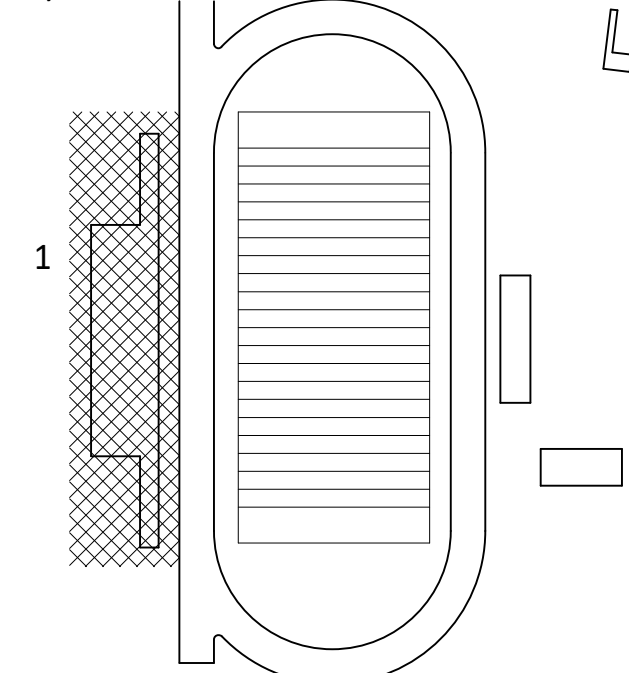


② HOME PRESS BOX - LEVEL 2 TECHNOLOGY PLAN
1/8" = 1'-0"



① HOME PRESS BOX - LEVEL 1 TECHNOLOGY PLAN
1/8" = 1'-0"

Key Plan:



18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

P

N

M

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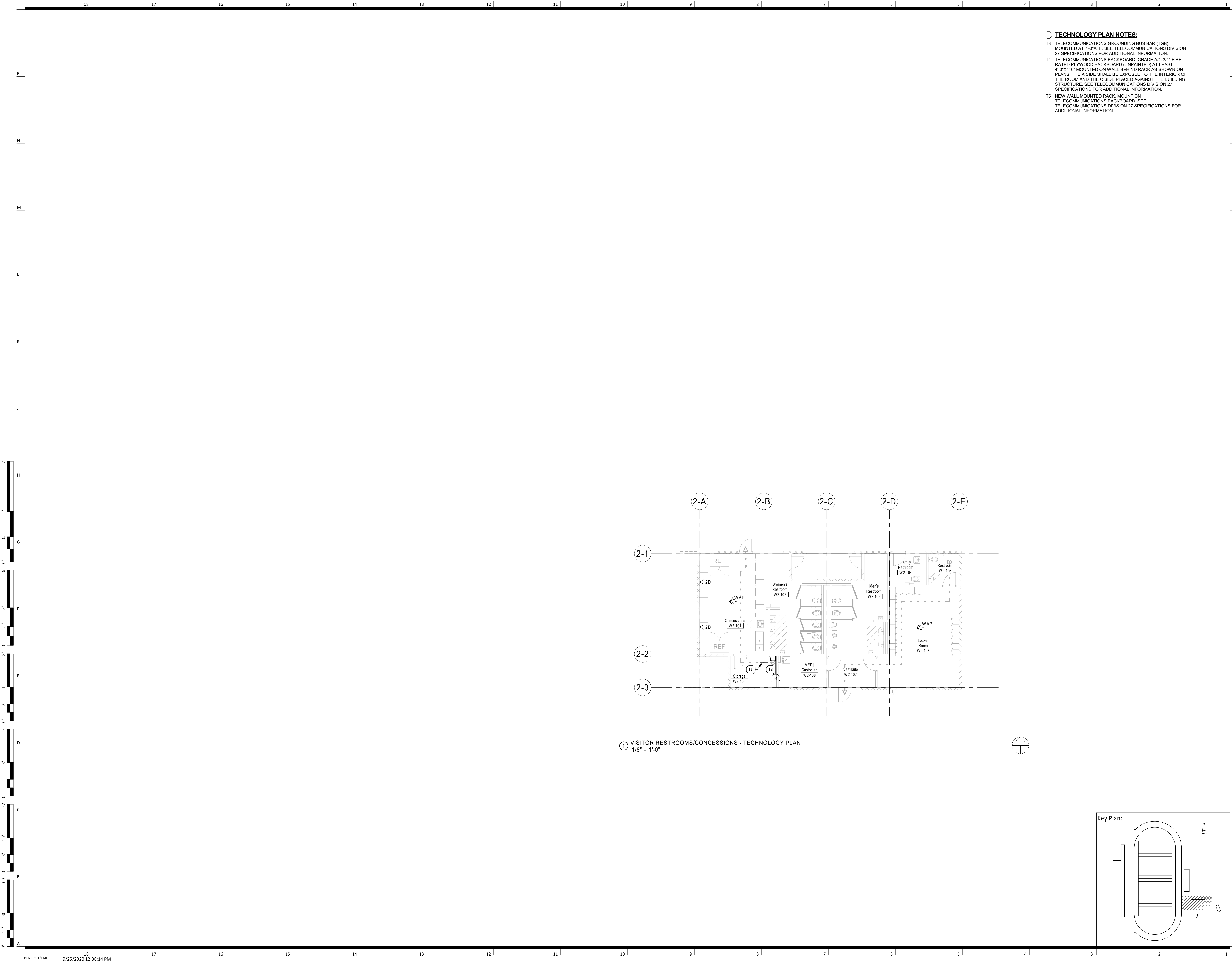
E

D

C

B

A



TECHNOLOGY PLAN NOTES:

T3 TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) MOUNTED AT 7'-0" AFF. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

T4 TELECOMMUNICATIONS BACKBOARD, GRADE A/C 3/4" FIRE RATED PLYWOOD BACKBOARD (UNPAINTED) AT LEAST 4'-0"x4'-0" MOUNTED ON WALL BEHIND RACK AS SHOWN ON PLANS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

T5 NEW WALL MOUNTED RACK, MOUNT ON TELECOMMUNICATIONS BACKBOARD. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020

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PROJECT NO: 0119-0101
DATE: September 28, 2020

VISITOR RESTROOMS & CONCESSIONS - TECHNOLOGY PLAN

W-TN121

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REVISIONS

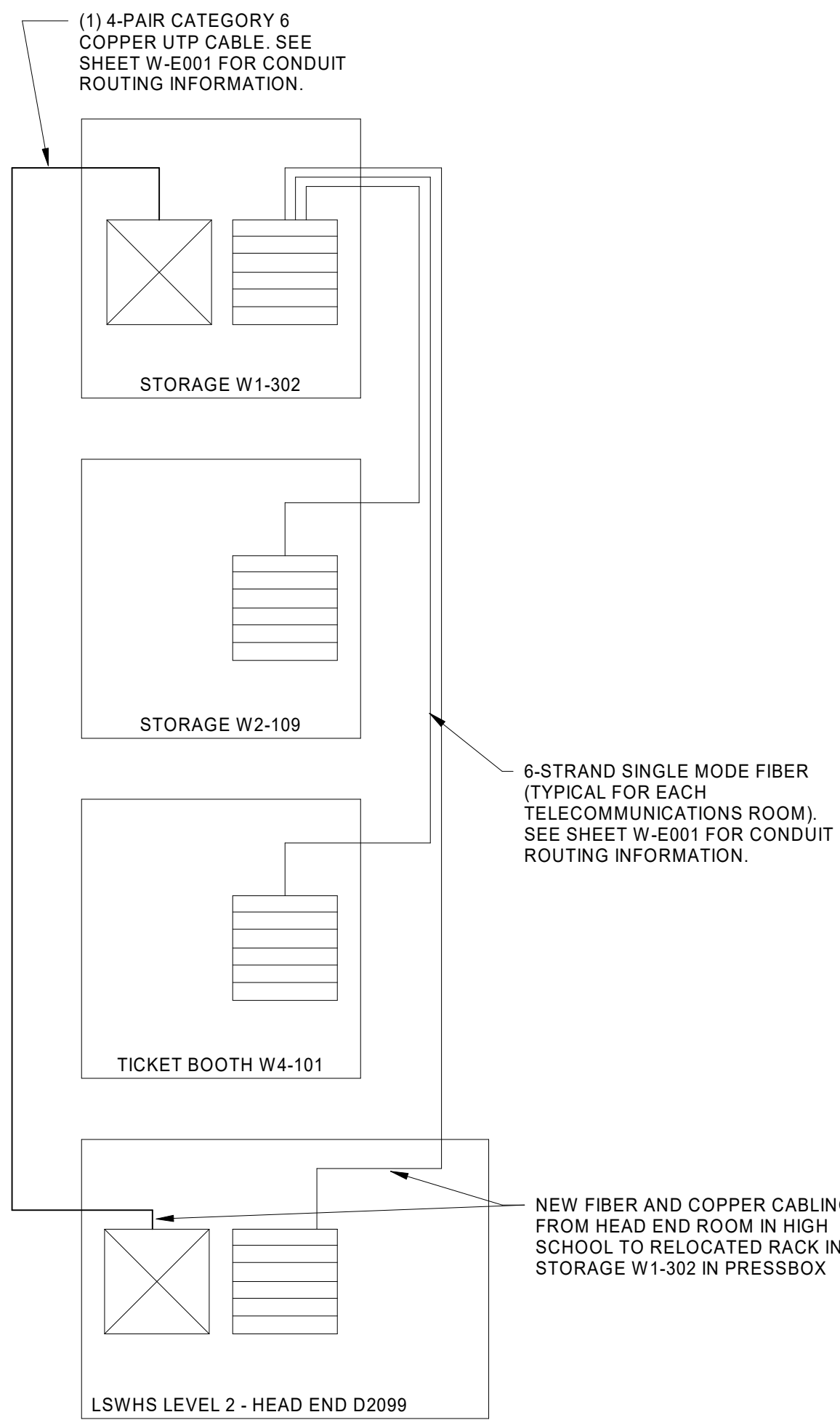
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DATE: September 28, 2020

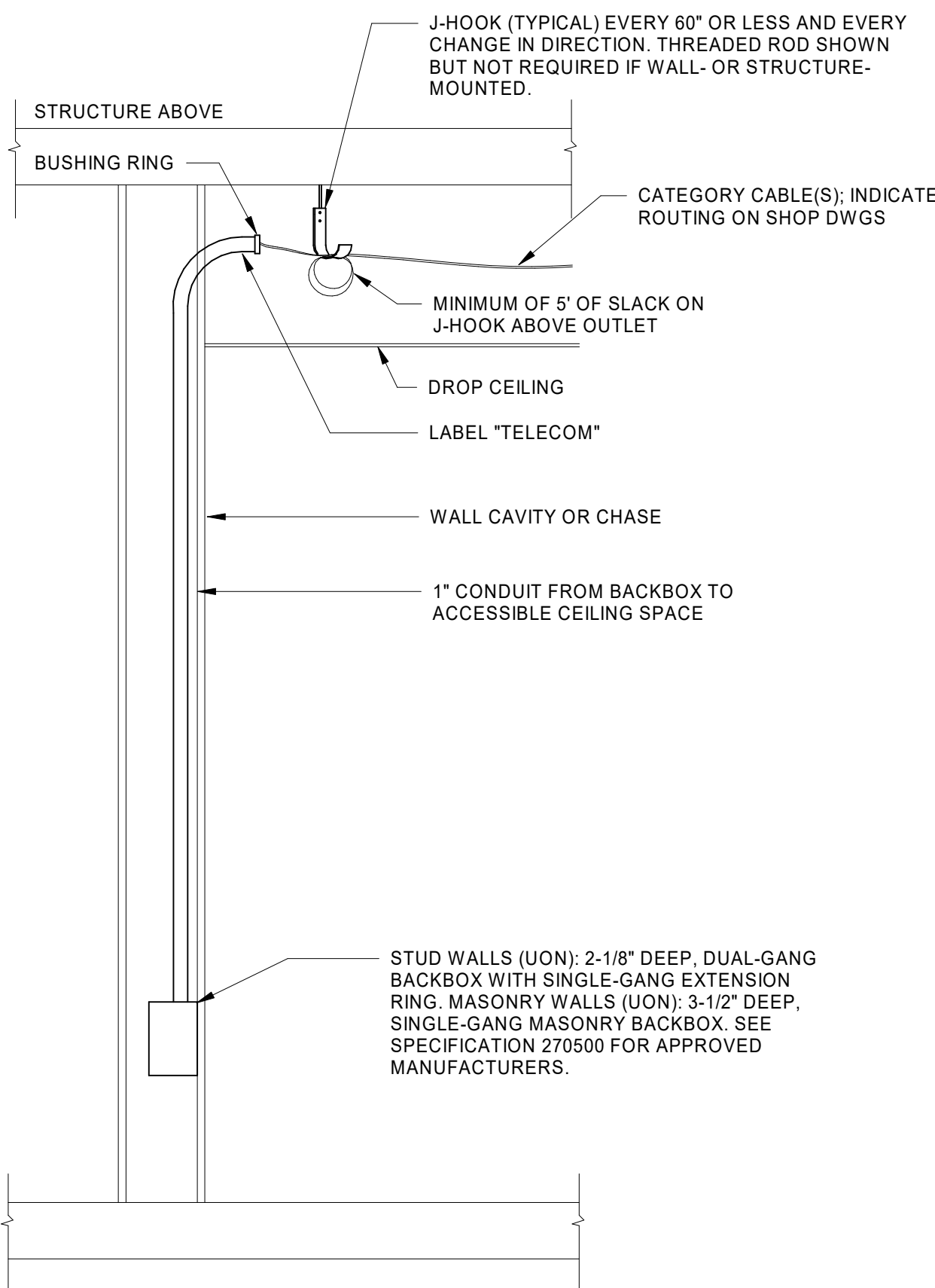
TECHNOLOGY DETAILS

W-TN500

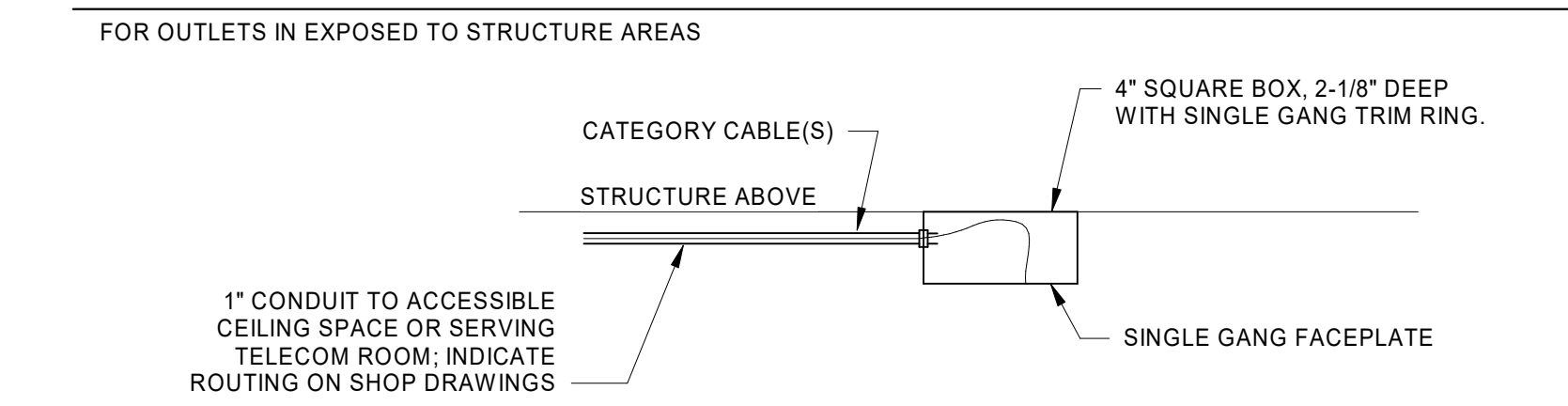
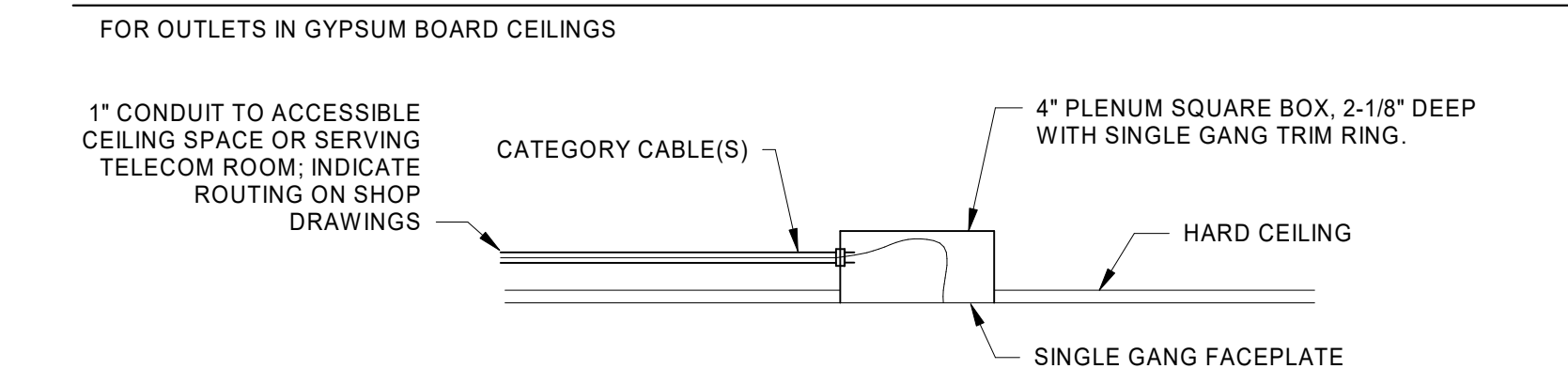
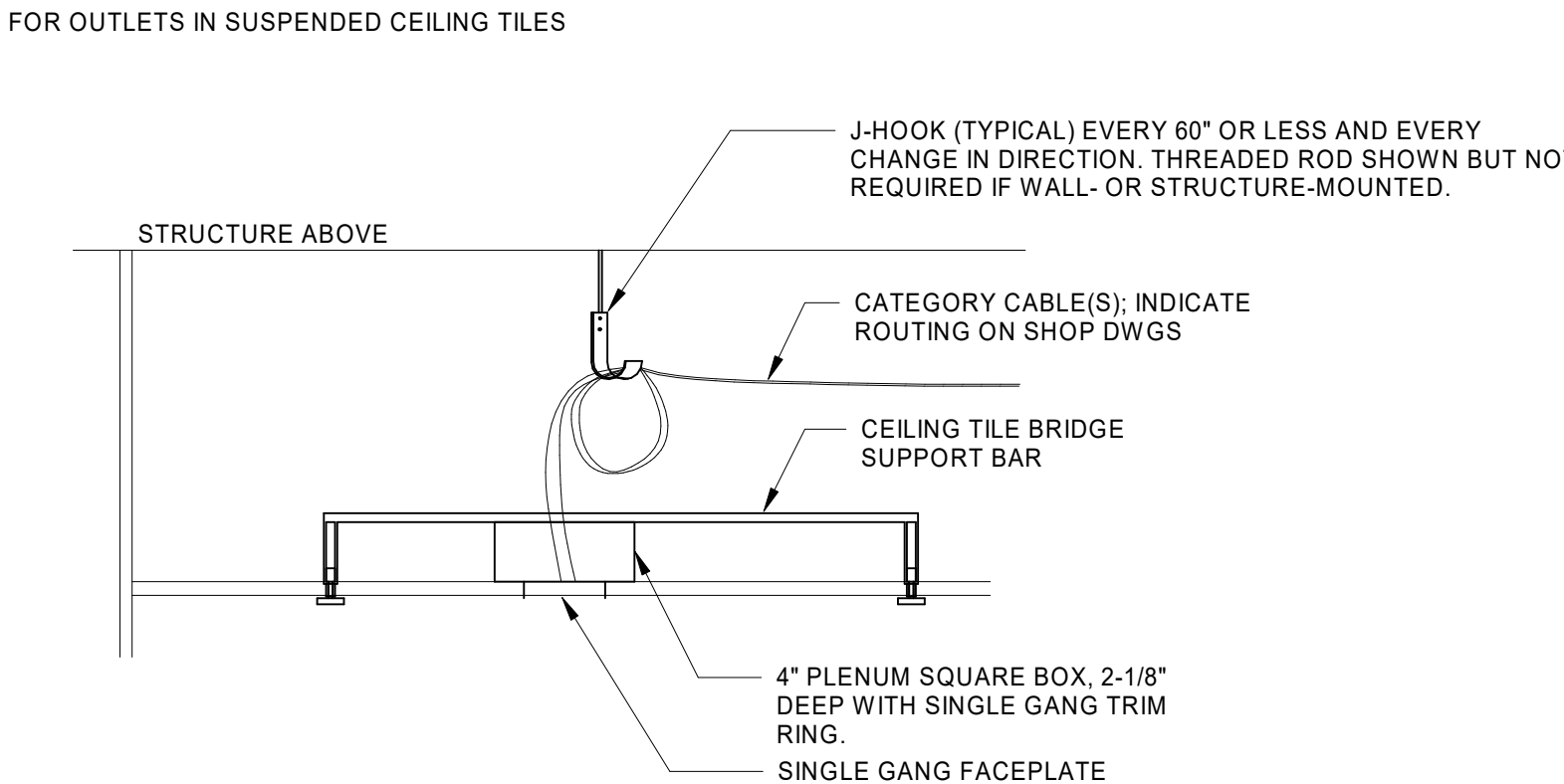
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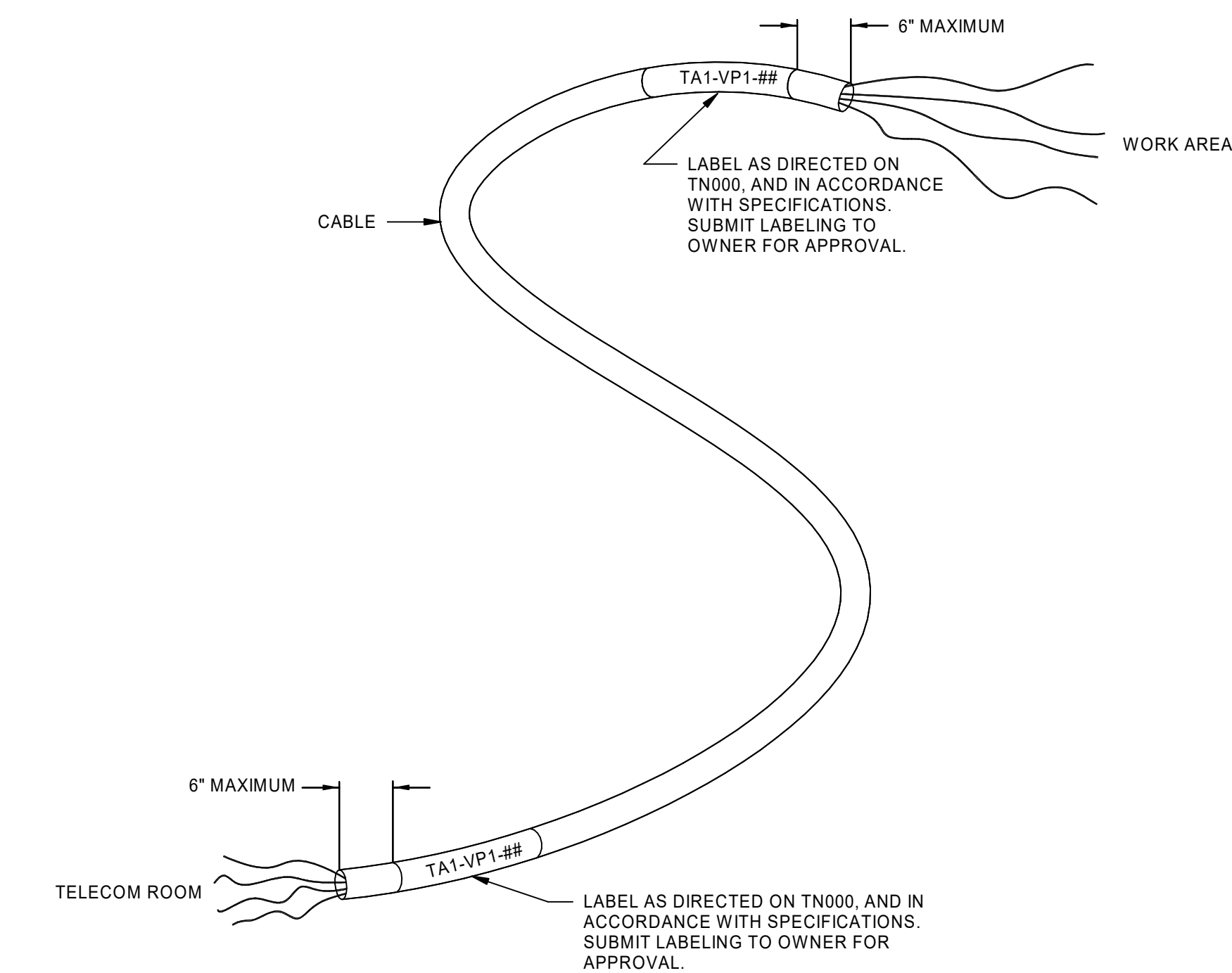
1 RISER DIAGRAM - BACKBONE CABLES
NTS



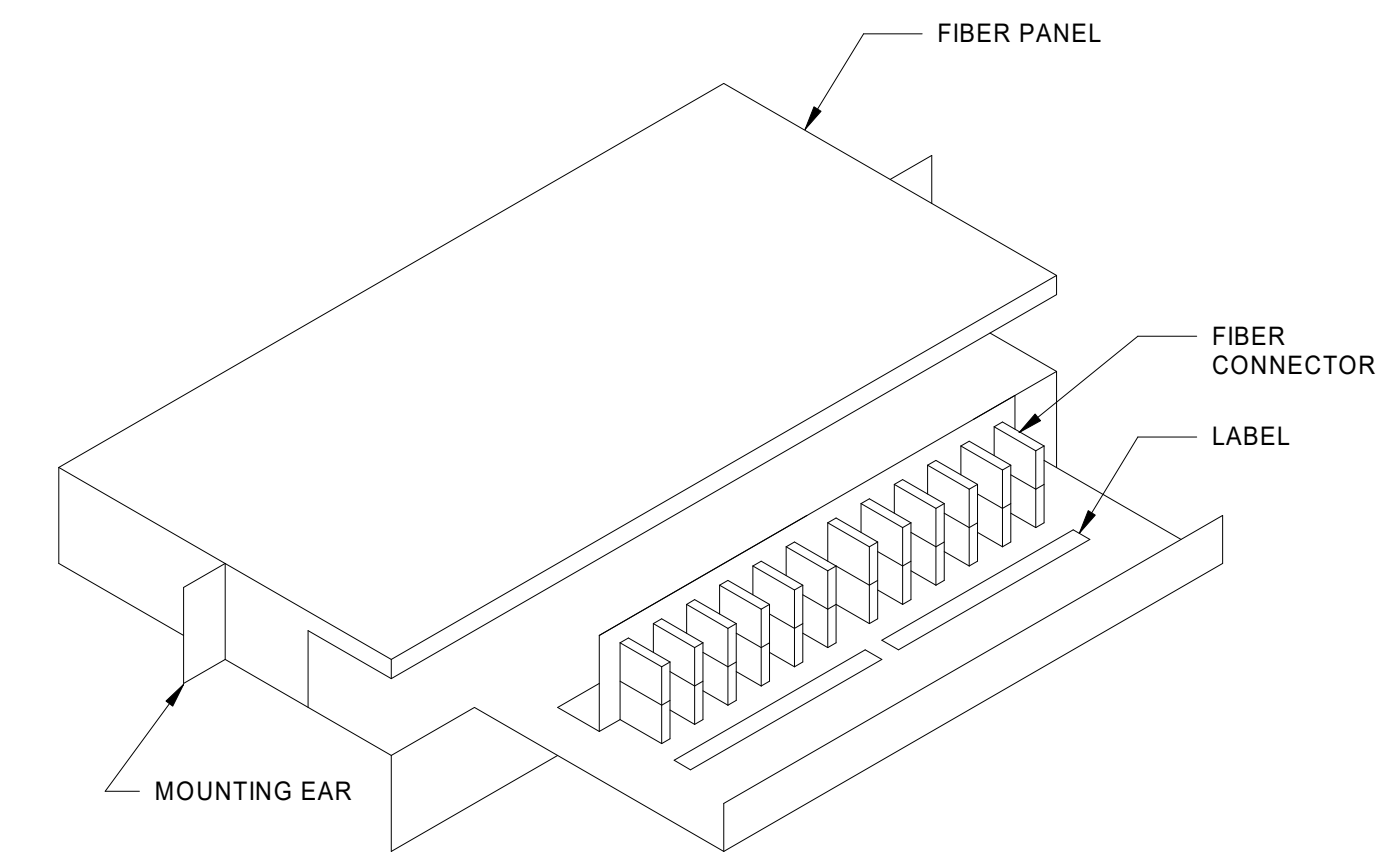
2 COMMUNICATIONS OUTLET MOUNTING
NTS



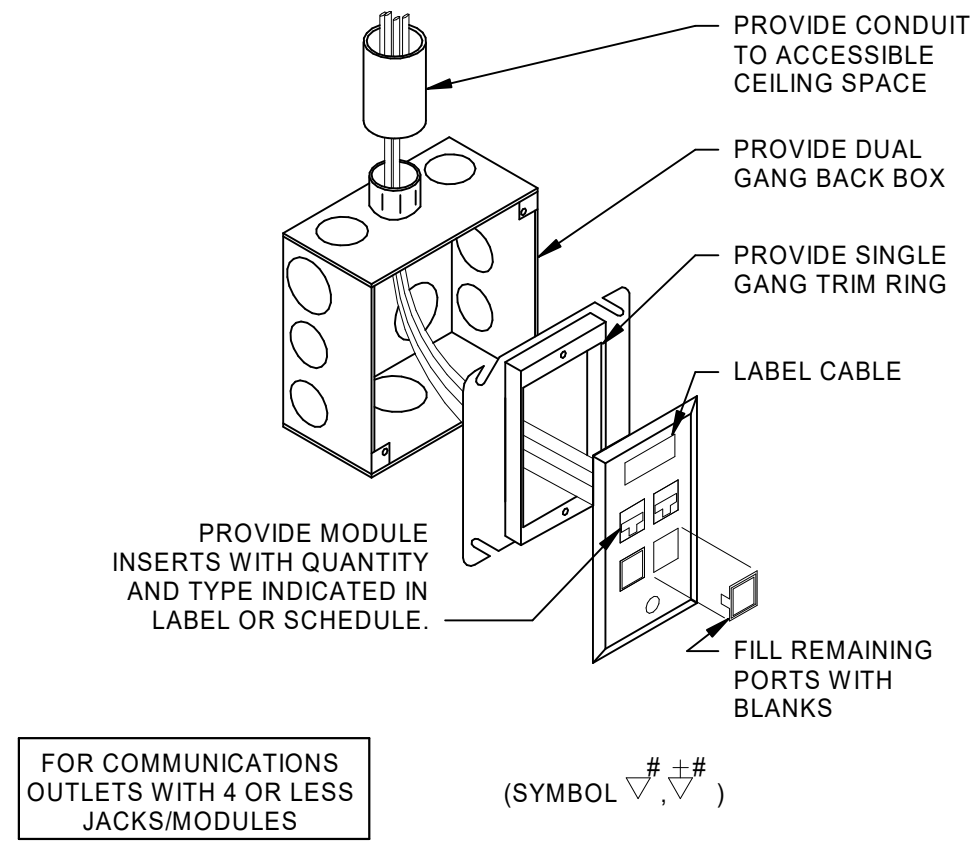
3 CEILING COMM OUTLET 2D
NTS



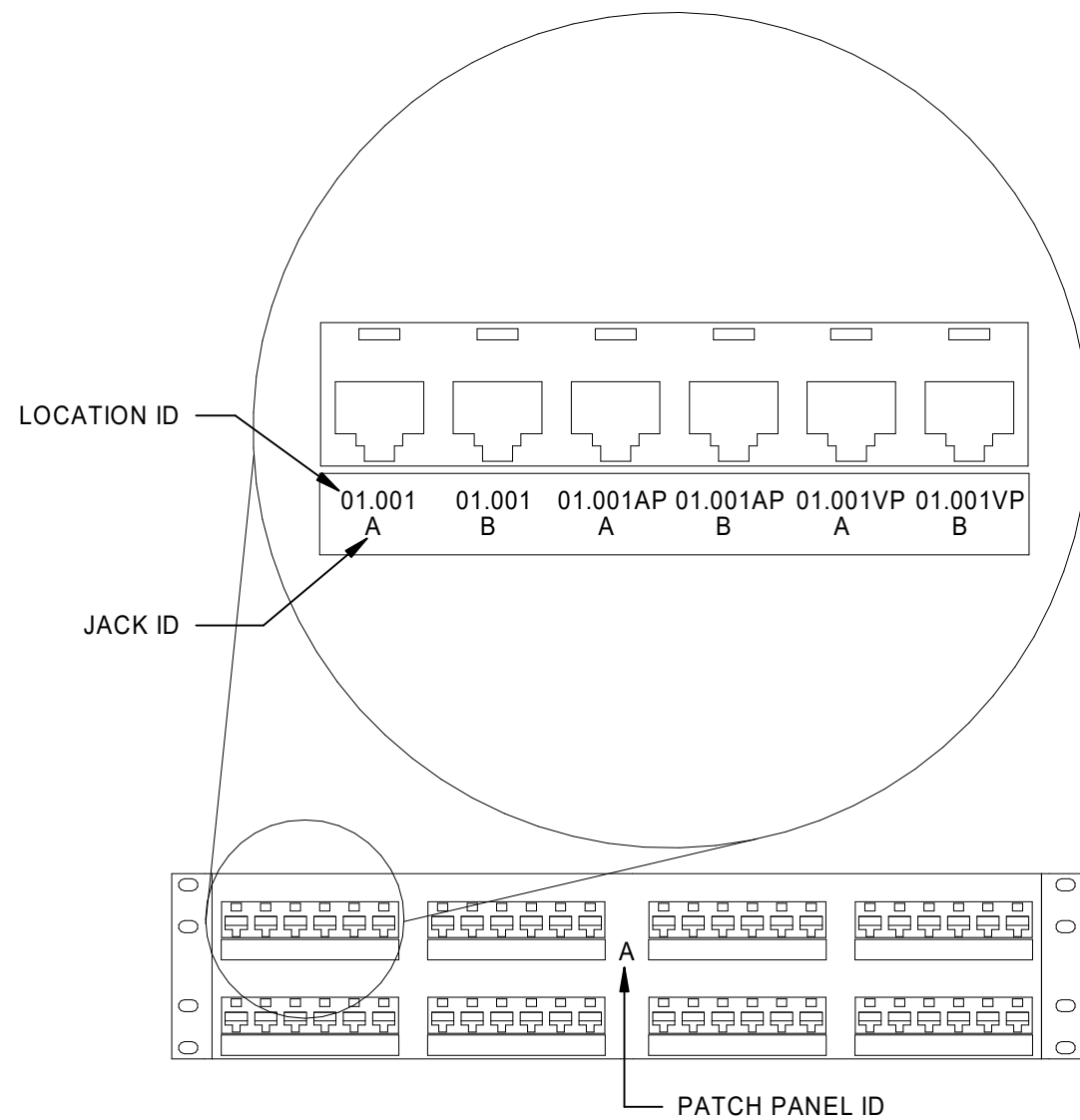
4 LABELING OF HORIZONTAL CABLE
NTS



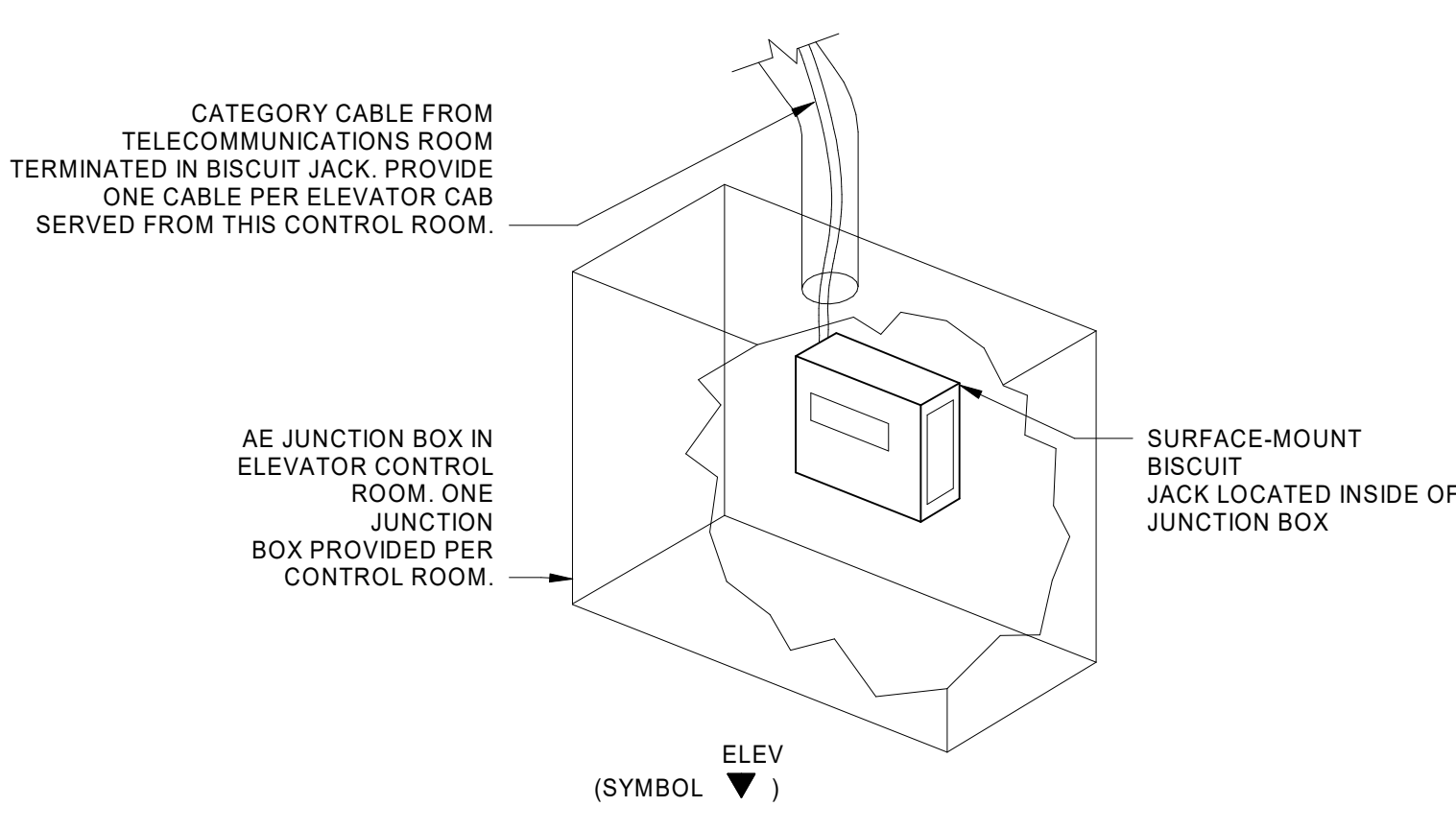
5 FIBER PANEL
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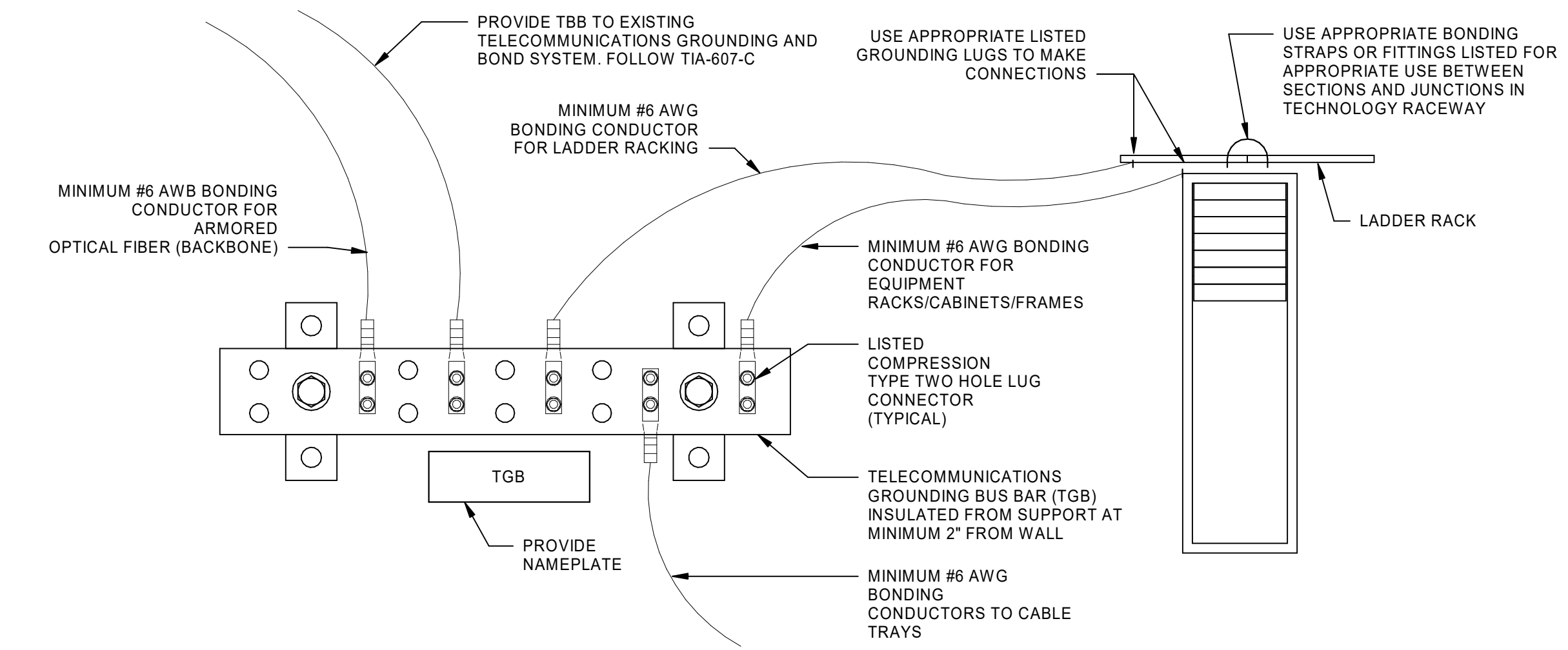
6 SINGLE GANG COMM OUTLET (3D)
NTS



7 TYPICAL PATCH PANEL LABELING DETAIL
NTS



8 COMM OUTLET FOR ELEVATOR - LAND LINE
12" = 1'-0"



9 TGB CONNECTIONS DIAGRAM
NTS