

ADDENDUM NO. 1

TO: ALL PLAN HOLDERS

RE: Union County Expo Center
El Dorado, Arkansas

Bid Date: July 25, 2024

ADDENDUM DATE: July 15, 2024

The Plans, Specifications and Contract Documents for the above referenced project are hereby modified as follows:

- 1. Architectural Specification Changes and Updates:** Twelve (12) Items have been updated by Doug Stanton Architect for the South Arkansas Expo Center Architectural Bid Package Addendum 1 dated July 12, 2024.
See attached
- 2. Bid Proposal Line-Item Updates:** Pages 2-30 of Bid Proposal have been updated.
See attached
- 3. Construction Plans:** Remove and Replace updated Cover sheet. Add plan sheets S0.1-S9.1.
See attached
- 4. Technical Specifications:** Add Section 133419 Pre-Engineered Metal Building Systems.
See attached.

ADDENDUM NO. 1 ISSUED BY:

DOUG STANTON ARCHITECT / A.L. FRANKS ENGINEERING



Cody Stringer, P.E.
Project Manager
A.L. Franks Engineering



Attachments



DOUGLAS STANTON ARCHITECT

South Arkansas Expo Center Architectural Bid Package Addendum

July 12, 2024

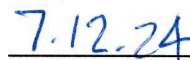
1. **Drawing A-2.22 REDUCED SCOPE RECEPTION PLAN 06.30.2024**
To be bid as an alternate to the larger Reception Center
2. **Drawing A-2.23 REDUCED SCOPE RECEPTION ELEVATIONS 06.30.2024**
To be bid as an alternate to the larger Reception Center
3. **Drawing L-2.01 RECEPTION HARDSCAPE PLAN 07.12.2024**
Enlarged plan of the hardscape surrounding the Reception Center
4. **SO AR Expo Misc.Arch.Notes 2024.7.12.doc**
Replaces misc. Notes to Bidders of previous SO AR Expo Arch. Spec. dated 7.2.2024
5. **SO AR Expo Arch. Spec.doc 2024.7.12**
Replaces SO AR Expo Arch. Notes and Specifications dated 7.2.2024 with no changes to the specifications section.
6. **Drawing A-1.3 SITE PLAN 2024.7.12**
Replaces previous A-1.3 SITE PLAN with updated site layout.
7. **Drawing A-3.0 RECEPTION ELEVATIONS 2024.7.12**
Replaces previous A-3.0 RECEPTION ELEVATIONS. No changes, only improved legibility.
8. **Drawing STALLS.1 07.12.2024**
Provides arena stalls and chutes final layout with specifications of the parts. The chute in the northwest corner is to be brought under the arena roof. Priefert or approved equal.
9. **Drawing STALLS.2 07.12.2024**
Provides stalls barn final layout for stalls with specifications of the stalls parts. Priefert or approved equal.
10. **E2.13 7.12.2024** Changes as noted on plans
11. **E5.2 7.12.2024** Changes as noted on plans
12. **M1.1 7.12.2024** Changes as noted on plans
13. **M5.1 7.12.2024** Changes as noted on plans

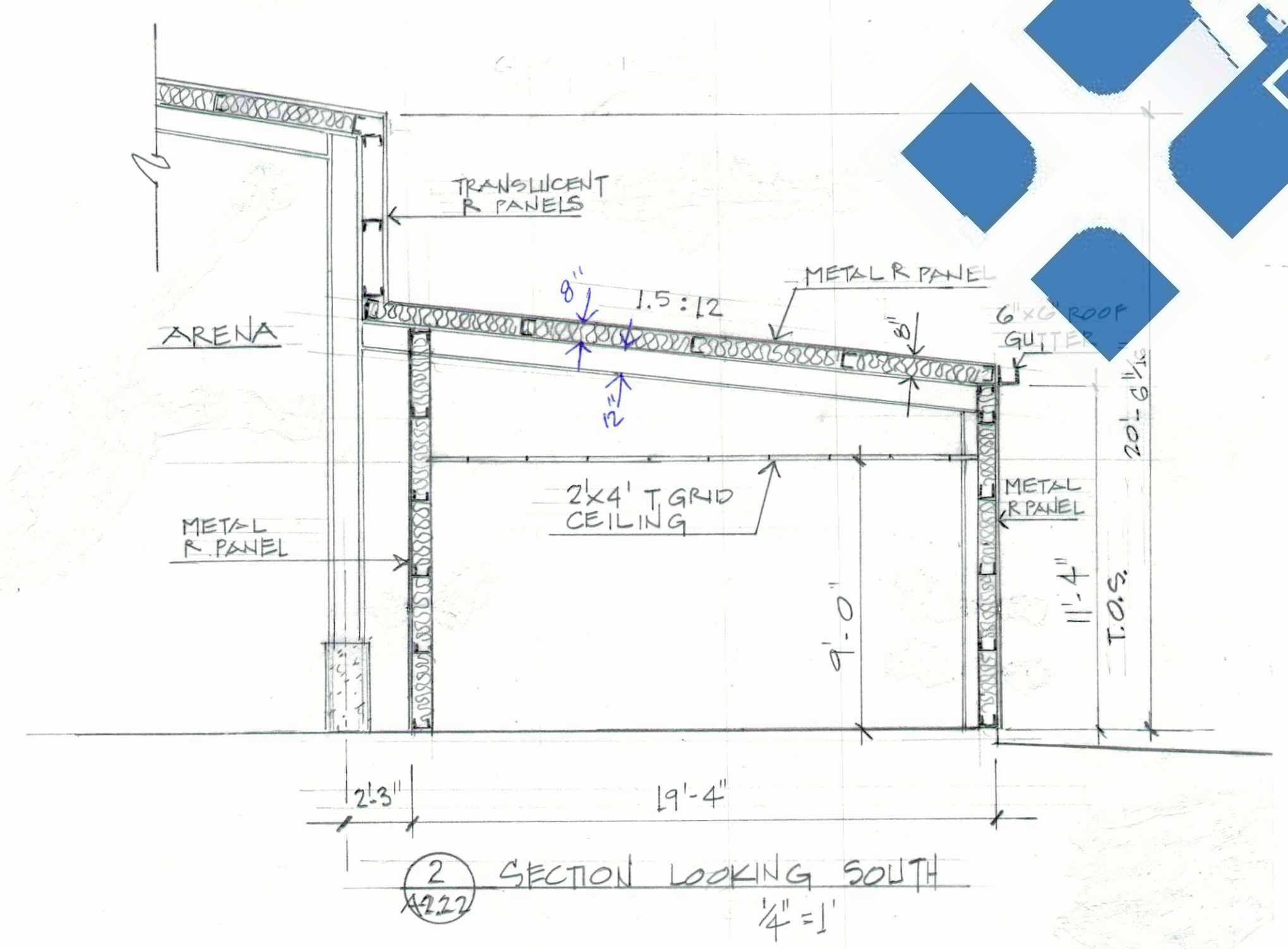
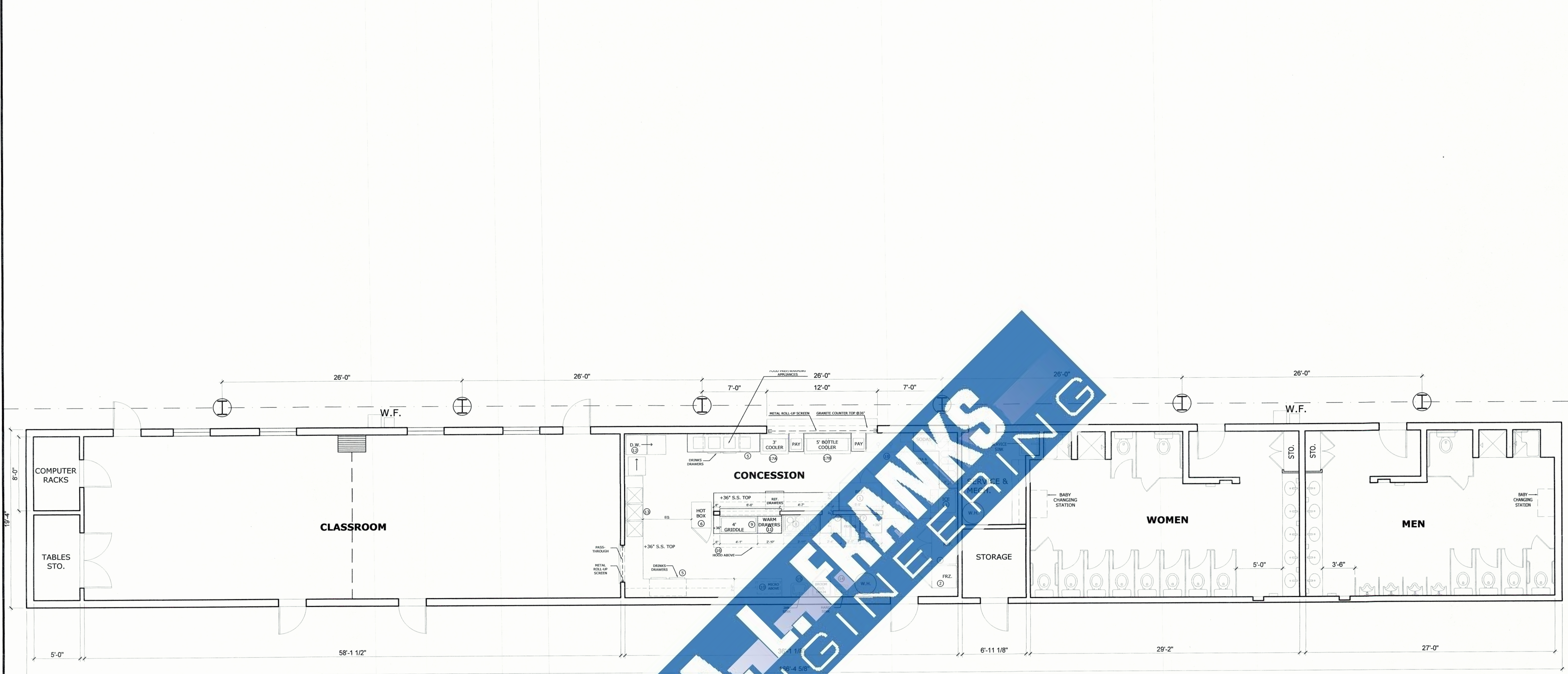
Submitted by

Douglas Stanton Architect

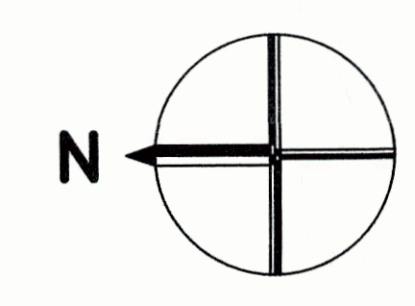


Date





AL FRANKS ENGINEERING



1
A-2.22

SERVICES & CLASSROOM BUILDING PLAN
SCALE: 3/16"=1'

DOUGLAS STANTON ARCHITECT
608 E. 5th Street
El Dorado, AR 71730
310-629-9748
doug@dstantonarchitects.com



SOUTH ARKANSAS EXPO CENTER
DEL TIN HIGHWAY AR 335
EL DORADO, ARKANSAS 71730

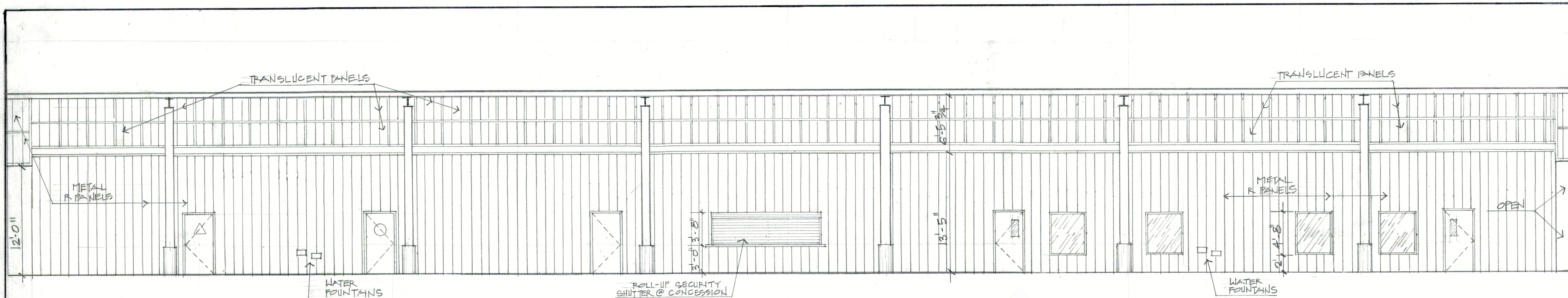
CONSTRUCTION DRAWINGS

ISSUE	DATE
DESIGN DEVELOPMENT	1.31.2024
BID SET	06.20.2024

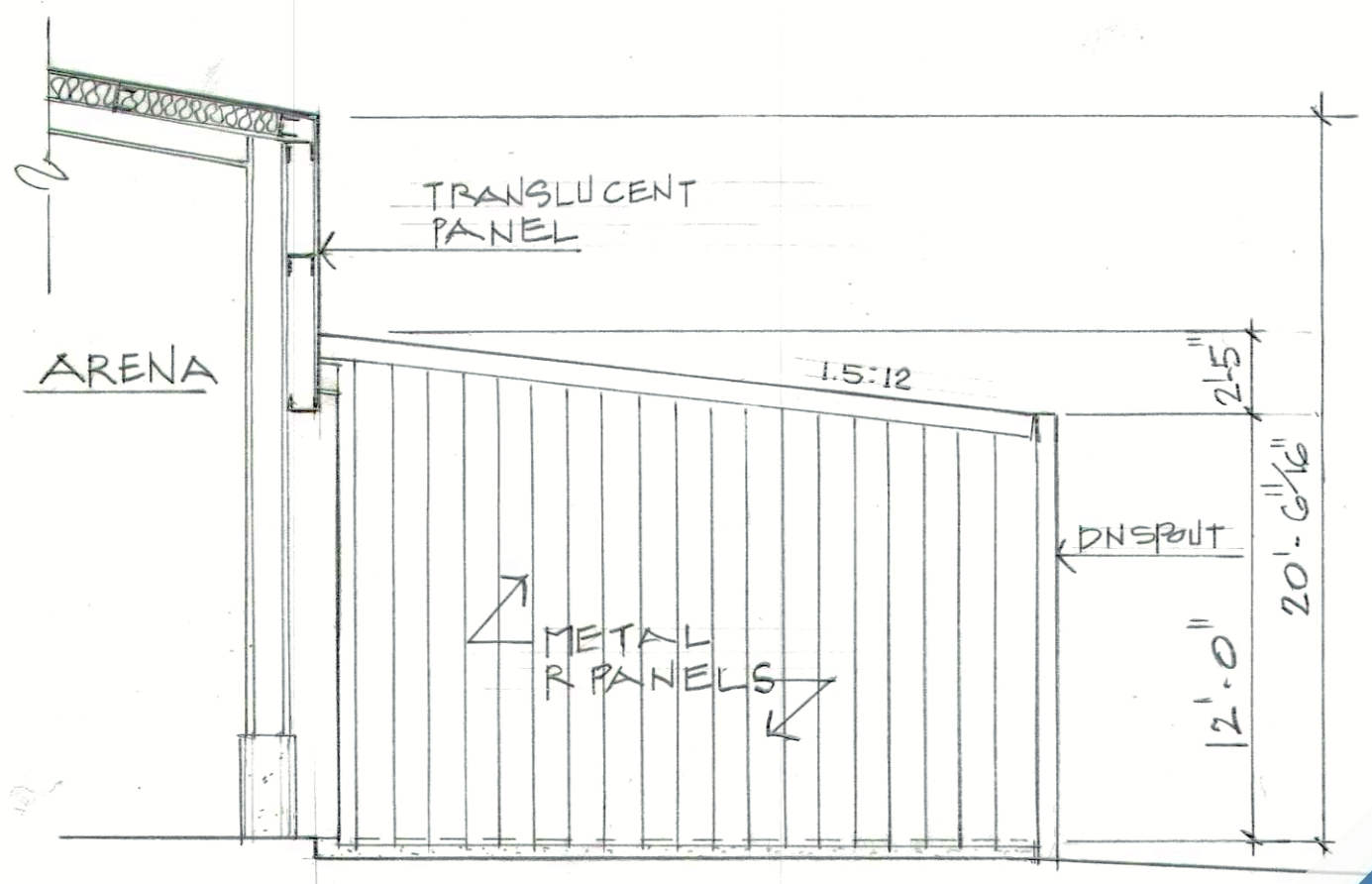


REDUCED SCOPE
RECEPTION
PLAN

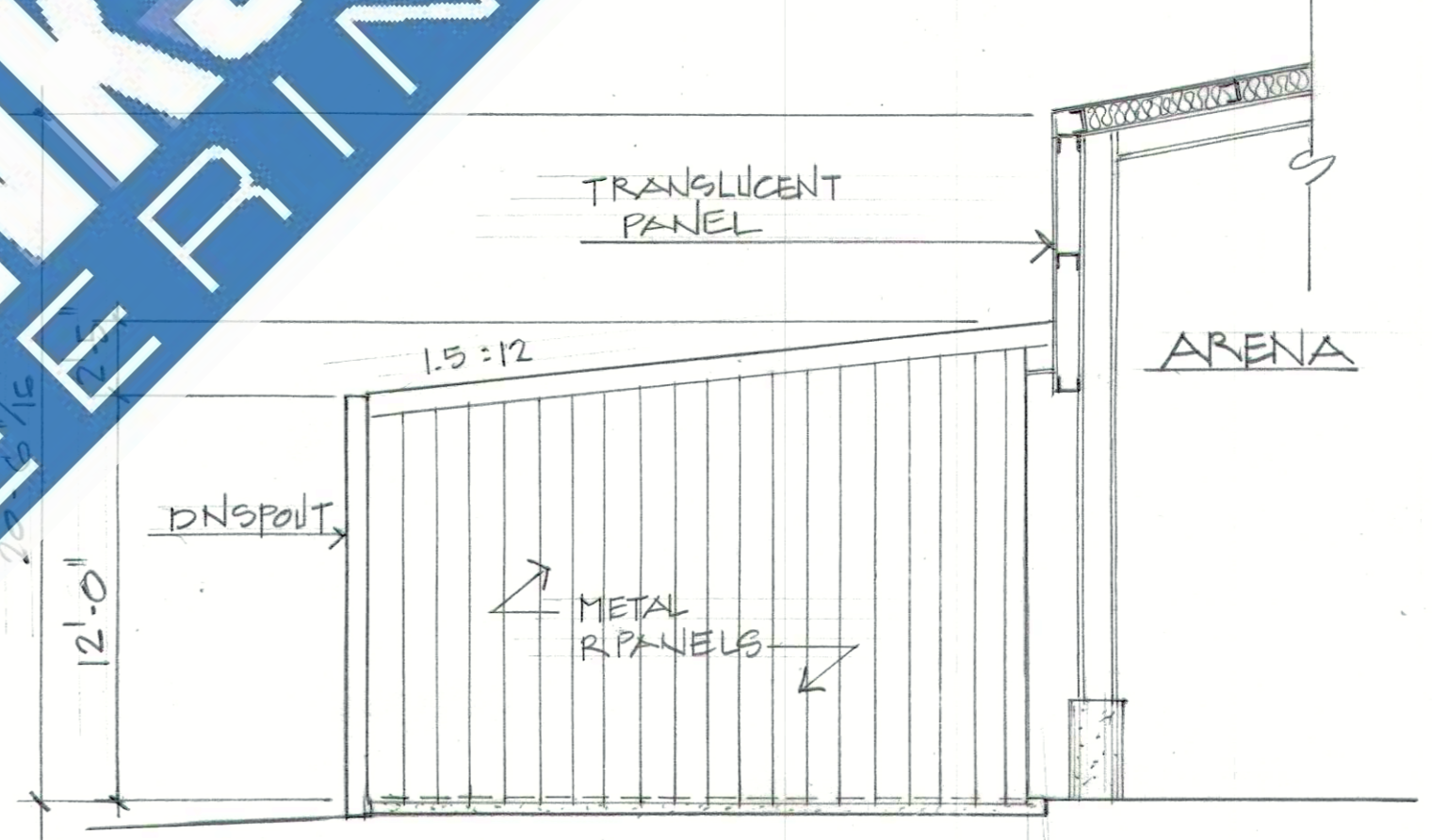
A-2.22



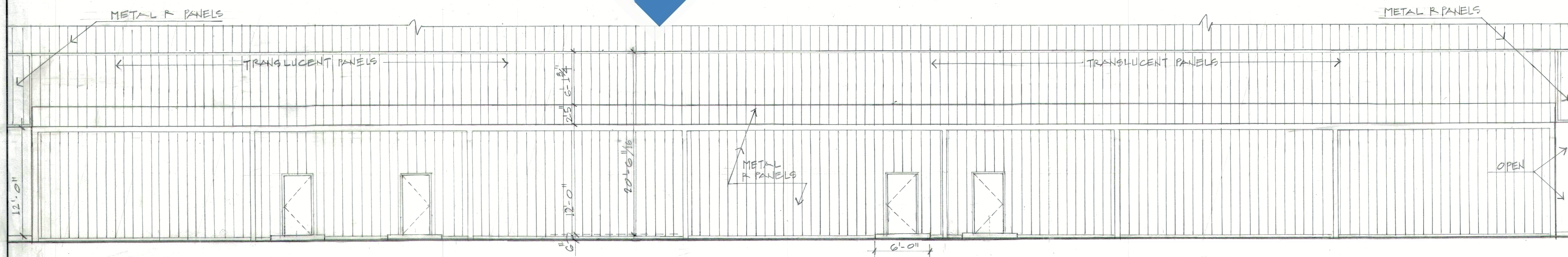
4 SERVICES & CLASSROOM BLDG EAST ELEVATION
 A-2.23 3/16" = 1'



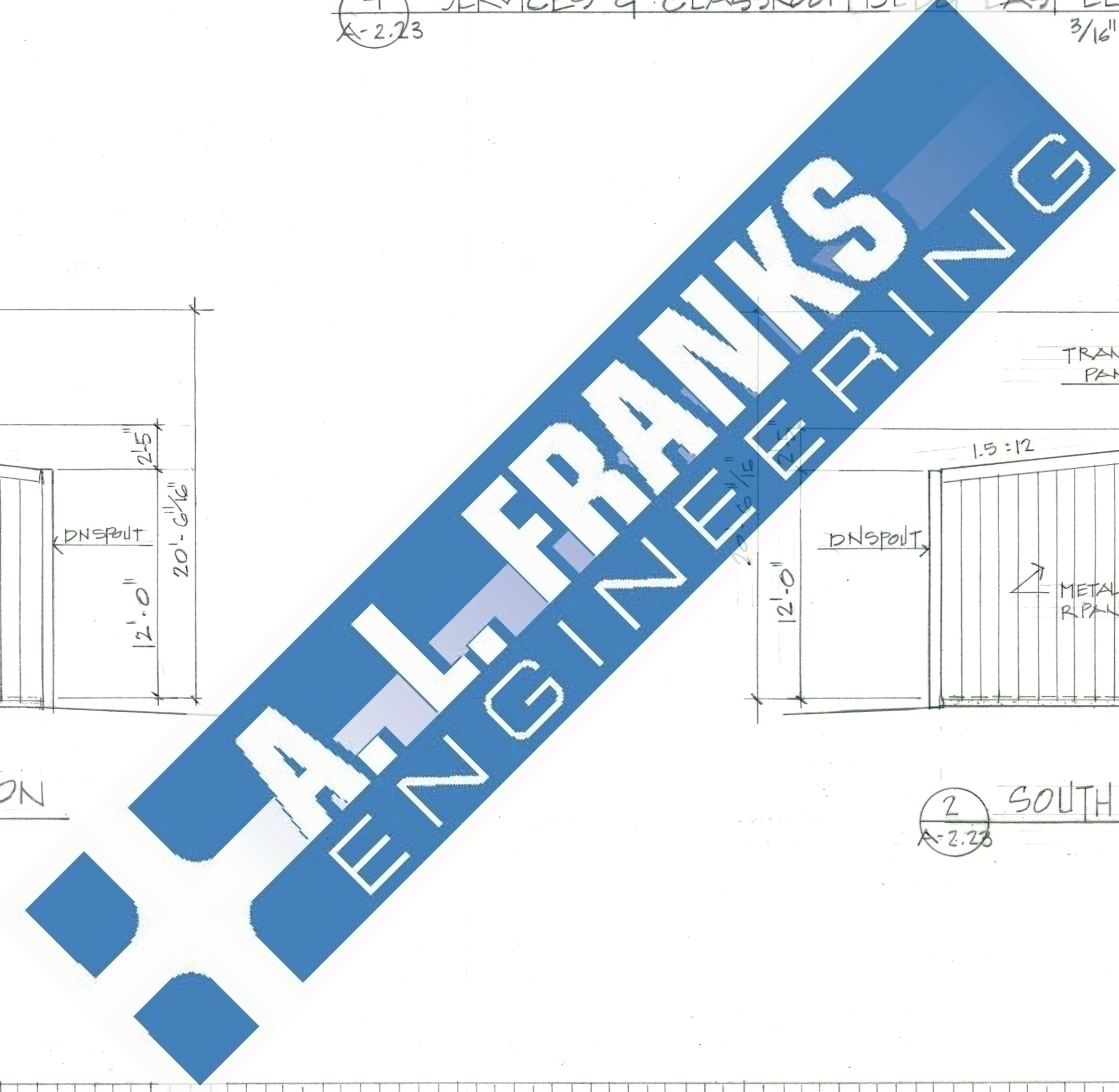
3 NORTH ELEVATION
 A-2.23 3/16" = 1'



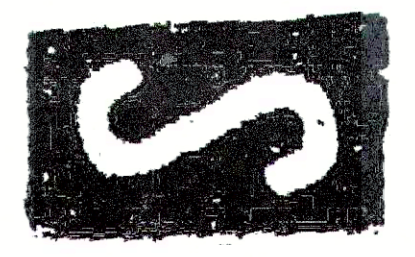
2 SOUTH ELEVATION
 A-2.23 3/16" = 1'



1 SERVICES & CLASSROOM BLDG WEST ELEVATION
 A-2.23 3/16" = 1'



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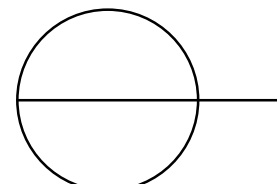
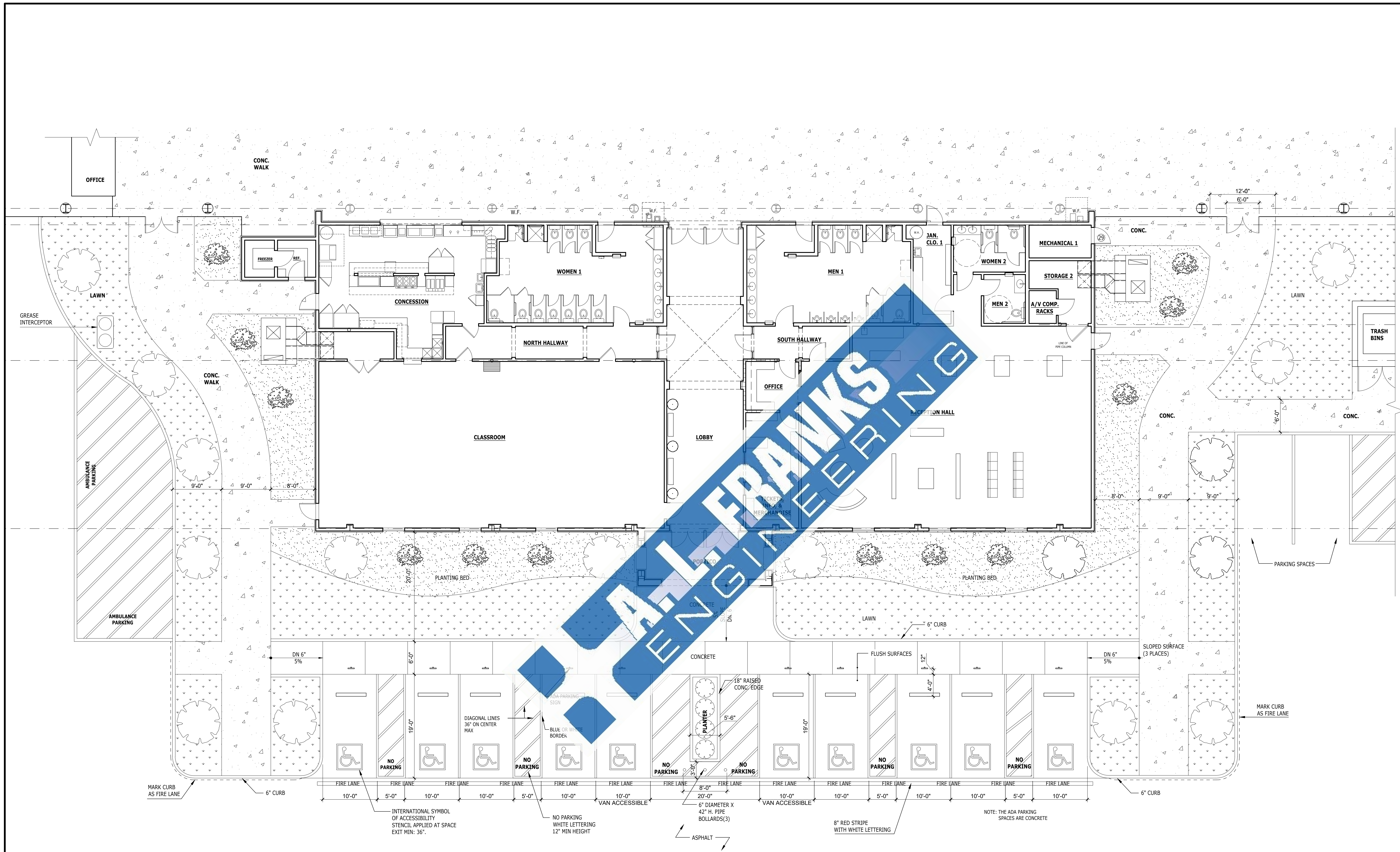
CONSTRUCTION DRAWINGS

ISSUE	DATE
DESIGN DEVELOPMENT	1.31.2024
BID SET	06.20.2024



REDUCED SCOPE RECEPTION ELEVATIONS

A-2.23



RECEPTION HARDSCAPE PLAN

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

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 © DOUGLAS STANTON ARCHITECT



SOUTH ARKANSAS EXPO CENTER
 DEL TIN HIGHWAY AR 335
 EL DORADO, ARKANSAS 71730

CONSTRUCTION DRAWINGS

ISSUE	DATE
DESIGN DEVELOPMENT	1.31.2024
BID SET	05.01.2024
BID SET	07.12.2024



RECEPTION HARDSCAPE PLAN

L-2.01



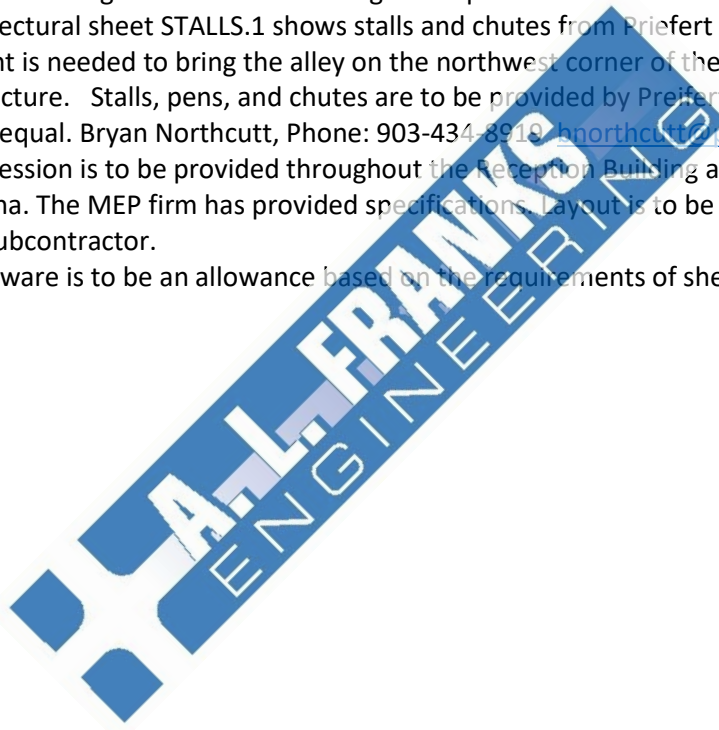
DOUGLAS STANTON ARCHITECT

SOUTH ARKANSAS EXPO CENTER

Misc. Notes to Bidders 7.12.24

MISC. NOTES TO BIDDERS:

1. There must be a permanent sign at the announcer's booth stair saying, "MAXIMUM CAPACITY 12 PERSONS."
2. There will be only one security monitor in the office although the specs. from Advanced Security Technologies may call for two.
3. The quantities of light fixtures on the Long Sales quote need confirmation with drawings.
4. The architectural sheet STALLS.1 shows stalls and chutes from Priefert in the arena. Final adjustment is needed to bring the alley on the northwest corner of the arena into the arena structure. Stalls, pens, and chutes are to be provided by Priefert Manufacturing or approved equal. Bryan Northcutt, Phone: 903-434-8919, bnorthcutt@priefert.com
5. Fire suppression is to be provided throughout the Reception Building and over bleachers in the arena. The MEP firm has provided specifications. Layout is to be provided by bidder's subcontractor.
6. Door hardware is to be an allowance based on the requirements of sheet A-2.50.





DOUGLAS STANTON ARCHITECT

**SOUTH ARKANSAS EXPO CENTER
Materials Specifications 7.12.24**

MATERIAL SEPCIFICATIONS

SITE FENCING

1. Site perimeter three sides (N, S, and E)
36" H field fence with 2 strands of barbed wire above to 54"
2. Site perimeter along Hwy 335 , 5' chain link.
3. At arena edge along the west, black painted wrought iron fence to 5 ft. with two pair of iron gates to match drawing 3, sheet A-2.50.
4. On the east, north, and south arena perimeter, a 35" high fence made of 2" horizontal pipes, with one at 36" and another at 18". There will be gates to match the rail fence; four 4 ft. wide and two pair of 3 ft. wide gates.
5. Around the playground and dog park, a 6 ft. high black plastic-coated chain link fence with four 4' wide gates.

EXTERIOR WALL AND ROOF MATERIALS

RECEPTION CENTER BUILDING

Wall base: JANDRIS SPLIT FACE BLOCK, 16X8X4 SINGLE GROOVE Color DK-25
<https://ajandris.com/products/architectural-cmu/split-face-cmu/>

Wall surface: EIFS, Dryvit or approved equal. #449 Buckskin. Freestyle finish

Wall cap: Roman brick, 14" x 1.5" x 3", "Belden" or approved equal, Pago Velour finish

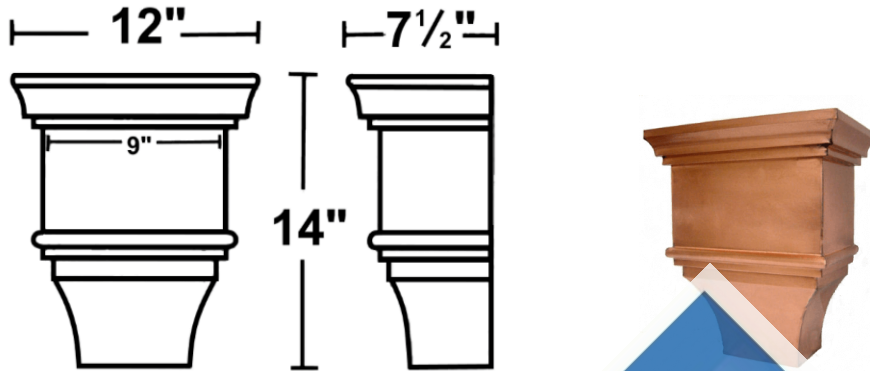
**WALK-IN REFRIGERATION UNIT (SEE BELOW) COLOR:
SW 9110 Malabar**

Reception Center Bldg. roof: NUCOR or sim. R panels (36" wide with 12" rib spacing) PVDF coating Charcoal, IR.32 SRI 34

Leader heads and downspouts on the west elevation (4)

<https://www.theraingutterspecialists.com/choose-leader-heads?page=3>

The Rain Gutter Specialists, leader head #48 bond, 4" dia. round bond downspouts. 818-663-3716 Guy Ziv (provide **bond**, not copper as pictured)



ARENA AND STALLS BARN

Arena structure:

Within 10 ft. of the perimeter on all sides, remove all structural steel parts before applying a finish coat (spray applied) of Sherman Williams multi-surface acrylic paint or approved equal (color to match red primer).

Arena roof:

1. NUCOR or sim. R panels (36" wide with 12" rib spacing) SP coating Polar White IR.67 SRI 81
2. Along ridge, NUCOR or sim. white translucent R panel skylight strips per roof plan.
3. Vertical gable ends (north and south) and "skirts" on east and west elevation are NUCOR or sim. R panels (36" wide with 12" rib spacing) SP coating Polar White IR.67 SRI 81, except per #4 below.
4. On the west elevation at the gable end and adjacent "skirt" on the taller portion of the arena are white translucent wall panels with 12" rib spacing.

The **Announcer's Booth** will be clad with NUCOR or sim. R panels (36" wide with 12" rib spacing) SP coating Fox Gray IR.51 SRI 58. The exposed metal structure of the Announcer's Booth, including the metal stair, will be painted to match Fox Gray IR.51 SRI 58 R panels.

Stalls Barn structure:

Within 10 ft. of the perimeter, reprime all structural steel parts and paint (spray applied) Sherman Williams multi-surface acrylic paint or approved equal (color to match red primer).

Stalls barn roof and vertical surfaces at gable ends and at “skirts”: NUCOR or sim. R panels (36” wide with 12” rib spacing) SP coating Polar White IR.67 SRI 81 with translucent R panels for skylights per roof plan.

Exterior walls of **Stalls Barn interior buildings** (STORAGE 3, and REST ROOMS 3) are NUCOR or sim. R panels (36” wide with 12” rib spacing) SP coating Fox Gray IR.51 SRI 58.

Paint CMU walls of the wash rack to match Fox Gray IR.51 SRI 58 R panels.

INTERIOR FINISHES

RECEPTION CENTER FLOORING

LOBBY AND HALLWAYS

12x12 Terra cotta tile with 4x4 glazed accent tiles.

Desmond McLean descalpot@gmail.com

California Pottery & Tile Works Inc.

5843 Towne Avenue, Los Angeles CA 90003

Phone: 323-235-4151 | Cell: 323-574-0775

RECEPTION HALL, OFFICE AND TICKETS/MERCH., CLASSROOMS, WOMEN’S 1 & 2, MEN’S 1 & 2, STORAGE 1 and 2, COMPUTER RACKS RM.

Stained and sealed concrete: H&C INFUSION water-based semi-transparent decorative stain (colors: Cordovan, Cork, and Espresso) with H&C ClariShield Water-Based Natural Look Sealer

MECH. ROOM, JAN. CLO., CONCESSION

Sealed concrete: H&C ClariShield Water-Based Natural Look Sealer

FLOOR BASE

LOBBY AND HALLWAYS

8” Terra cotta tile with cove detail. See Desmond McLean, California Pottery & Tile Works Inc. above

RECEPTION HALL

Johnsonite Classic MW-XX-Z 5.25”h, color: 283 Toast

Johnsonite Little Rock 800-575-4266

<https://commercial.tarkett.com/products/accessories/johnsonite-wall-base/johnsonite-masquerade>

OFFICE AND TICKETS/MERCH.

Johnsonite Classic MW-XX-Z 5.25”h, color: 283 Toast

CLASSROOMS

Johnsonite Classic MW-XX-Z 5.25”h, color: 283 Toast

RESTROOMS, STORAGE, MECH. ROOM, JAN. CLO., CONCESSION

Johnsonite DuraCove 4”h, color: 283 Toast

CROWN DETAIL

LOBBY AND HALLWAYS

NONE

RECEPTION HALL

EI & EI Colonial Crown ½ x 2 ¾ , 436 MUL, Ultralight MDF

OFFICE AND TICKETS/MERCH.

NONE

CLASSROOMS

NONE

RESTROOMS, STORAGE, MECH. ROOM, JAN. CLO., CONCESSION

NONE

WALLS

LOBBY AND HALLWAYS

Painted drywall compound (Lobby must be exterior wall board. See sheet A-4.01), with varying, free-hand textured finish and bullnose corners. Paint color: SW 6140 Moderate White

RECEPTION HALL

Painted drywall with varying, free-hand textured finish and bullnose corners. Paint color: SW 3823 Rockwood Clay

OFFICE AND TICKETS/MERCH.

Painted drywall. Paint color: SW 6140 Moderate White

CLASSROOMS

Painted drywall. Paint color: SW 6140 Moderate White

WOMEN'S RESTROOMS (3 restrooms)

Walls will have NUDO FRP panels, color Silver, pebbled finish, where indicated on the plans with SW 6326 Henna Shade painted drywall on remaining wall surfaces.

Contact Josh Nelson 217-330-6350, 800-826-4132, josh.nelson@nudo.com

MEN'S RESTROOMS (3 restrooms)

Walls will have NUDO FRP panels, color Silver, pebbled finish, where indicated on the plans with SW 7617 Mediterranean painted drywall on remaining wall surfaces.

CONCESSION

Walls will have NUDO FRP panels, color Silver, pebbled finish, where indicated on the plans with SW 6140 Moderate White painted drywall on remaining wall surfaces. Note: walls of the concession adjacent to cooking will receive ss. finish where indicated on the plans.

STORAGE (3 rooms), MECH. ROOM (1), JAN. CLO. (2),
Painted drywall. Paint color: SW 6140 Moderate White

CEILINGS

LOBBY AND HALLWAYS

Painted drywall (Lobby must be exterior wall board), with varying, free-hand textured finish and bullnose corners. Paint color: SW 6140 Moderate White

RECEPTION HALL

Painted drywall color SW 6140 Moderate White, with tin ceiling tiles from American Tin Ceiling:
https://www.americantinceilings.com/collections/ceiling-and-wall?menu%5Bnamed_tags.installation%5D=Drop-In&menu%5Bnamed_tags.finish%5D=Artisan%20Silver%20Brushed%20Bronze&page=1 2x2 drop-in, pattern #6 in Silver Brushed Bronze finish. Crown C1 Silver Brushed Bronze finish.

Paint T-grid finish to match the tin tiles.

OFFICE, TICKETS, MERCH.

Armstrong 2' x 2' T grid ceiling

CLASSROOMS

Armstrong 2' x 2' T grid ceiling

RESTROOMS, STORAGE, MECH. ROOM, JAN. CLO., CONCESSION

Armstrong 2' x 2' T grid ceiling

STALLS BARN RESTROOMS

FLOORING

Sealed concrete: H&C ClarShield Water-Based Natural Look Sealer

WALLS

WOMEN'S RESTROOM 3

Walls will have NUDO FRP panels, color Silver, pebbled finish, where indicated on the plans with SW 6326 Henna Shade painted drywall on remaining wall surfaces.

Contact Josh Nelson 217-330-6350, 800-826-4132, josh.nelson@nudo.com

MEN'S RESTROOM 3

Walls will have NUDO FRP panels, color Silver, pebbled finish, where indicated on the plans with SW 7617 Mediterranean painted drywall on remaining wall surfaces.

CEILINGS

Armstrong 2' x 2' T grid ceiling

REST ROOM FIXTURES

TOILETS

Per MEP

URINALS

Per MEP

PARTITIONS

<https://www.totalrestroom.com/collections/metal-toilet-partitions-powder-coated-steel-bathroom-partitions>

Hadrian powder coated steel

Floor mounted, over-head braced

Color for Men's and Women's rooms: Sahara 585

TOILET PAPER DISPENSERS

ASI 0697-GAL Commercial Toilet Paper Dispenser/Shelf, 5" W x 18" L, Wall-Mounted, Stainless Steel w/ Satin Finish

COUNTERTOP AND BACKSPLASH

Giallo Veronica granite (or approved equal) Triton Stone Group

Haley Barnes 318-300-3923

SINKS

Per MEP

FAUCETS

Per MEP

MIRRORS

Bobrick tempered glass channel frame B-1658 1850. 18" W x 30" H

SOAP DISPENSERS

Bradley 6542 Commercial Liquid Soap Dispenser, Surface-Mounted, Manual-Push, Stainless Steel - 40 Oz 8 3/16 w x 4 7/8 h x 2 1/4 d

BABY CHANGING STATIONS

Koala Kare KB300-05 Horizontal Baby Changing Station, Wall-Mounted, White Granite, Updated Part Number: KB300-05

PAPER TOWEL DISPENSER/WASTE RECEPTACLES

ASI 0469 Combination Commercial Paper Towel Dispenser/Waste Receptacle, Recessed-Mounted, Stainless Steel

HAND DRYERS

World Dryer SLIMdri(TM) L-974 Hand Dryer, White Aluminum, Universal, Updated Part Number: L-974A

MISC. SPECIFICATIONS

ROLL-UP SCREENS (3) Concession to Arena (15'w x 3'-8"h), Concession to Classroom (3'-3"w x 3'-8"h), and Office to Reception Hall (3'w x 2'-8"h). Refer to window schedule for exact dimensions.

<https://azsolutions.com/security-shutters/>

METAL STAIR FOR ANNOUNCER'S STAND

https://www.fsindustries.com/more_info/industrial_institutional_ibc_stairs/industrial_institutional_ibc_stairs.shtml

Paint to match NUCOR Fox Gray IR.51 SRI 58 R panels.

KITCHEN STAINLESS COUNTERS & CABINETS

Steel Kitchen Corp. www.steelkitchen.com

800-680-7704 Carlos

Architect will provide interior elevations of the concession.

SERVICE SINK IN CONCESSION:

American Std, Enameled Cast Iron, Black/White, 14 1/8 in x 18 1/2 in Bowl Size

Overall Height: 20-1/4 in, Overall Length: 18 in, Overall Width: 22 in



DRINKING FOUNTAINS (2) ON THE EAST WALL OF REST ROOMS 1 (SEE MEP DRAWINGS)

ARENA BLEACHERS

Stadium Pro will provide shop drawings of permanent and temporary bleachers

Keith Kennedy 256-627-2472 blcnone@aim.com

4" concrete slab will be under permanent and temporary bleachers

PLAYGROUND EQUIPMENT

ACS Playground Adventures

www.acsplay.com

Cameron Wood

501-772-2075 cameronW@acsplay.com

PLAYGROUND SURFACE

Curb around play surface is 12" w x 6" d concrete ribbon with one "4 bar continuous.

OPTION 1, Engineered wood fiber mulch. \$1,500 to \$2,000.

ACS Playground Adventures. Cameron Wood

501-772-2075

OPTION 2, Artificial turf over shock pad over drainage blanket.

Geosurfaces

J.R. Eldridge jreldridge@geosurfaces.com

501-281-2568

p. 7

PICNIC TABLES

Uline economy wooden picnic tables H-5163 8 ft. \$369 ea.

DOG WATER FOUNTAIN IN DOG PARK

Elkay LK4400DBBLU Outdoor Pedestal Drinking Fountain w/ Pet Fountain -
Non Refrigerated, Blue
189-LK4400DBBLU • MPN: LK4400DBBLU \$3,887.



ICE VENDING MACHINE

The Kooler Ice IM2500 Series II 7' X 9'-1" X 10-9" H

<https://www.koolerice.com/im2500-series-ice-and-water-vending-machine/>



ROOM DIVIDERS AT CLASSROOM

Track recessed into ceiling grid, all panels satcking on east wall. Each panel is tightened vertically for stability with a tool (construction photo below shows a similar type of partition).



GUN SAFE IN OFFICE

6-Gun 11 in. x 11 in. x 54 in. Large Quick Access Keyboard Rifle Safe with 3 Pistol Bags Gun Safe Home Depot

<https://www.homedepot.com/p/6-Gun-11-in-x-11-in-x-54-in-Large-Quick-Access-Keyboard-Rifle-Safe-with-3-Pistol-Bags-Gun-Safe-MVGSG33/323124755->



WALK-IN REFRIGERATOR

Polar King International Dan Parsenow dan.parsenow@polarking.com 877-224-86745

Color: SW 7719 Fresco Cream

A/V DESIGN PROVIDED BY:

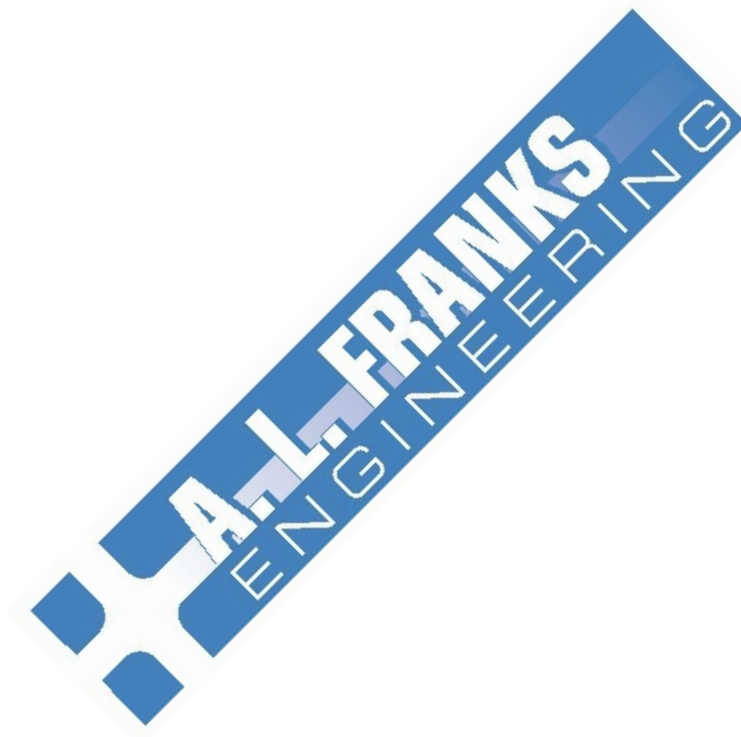
American AVL, 1607 Link Drive, Rustin LA

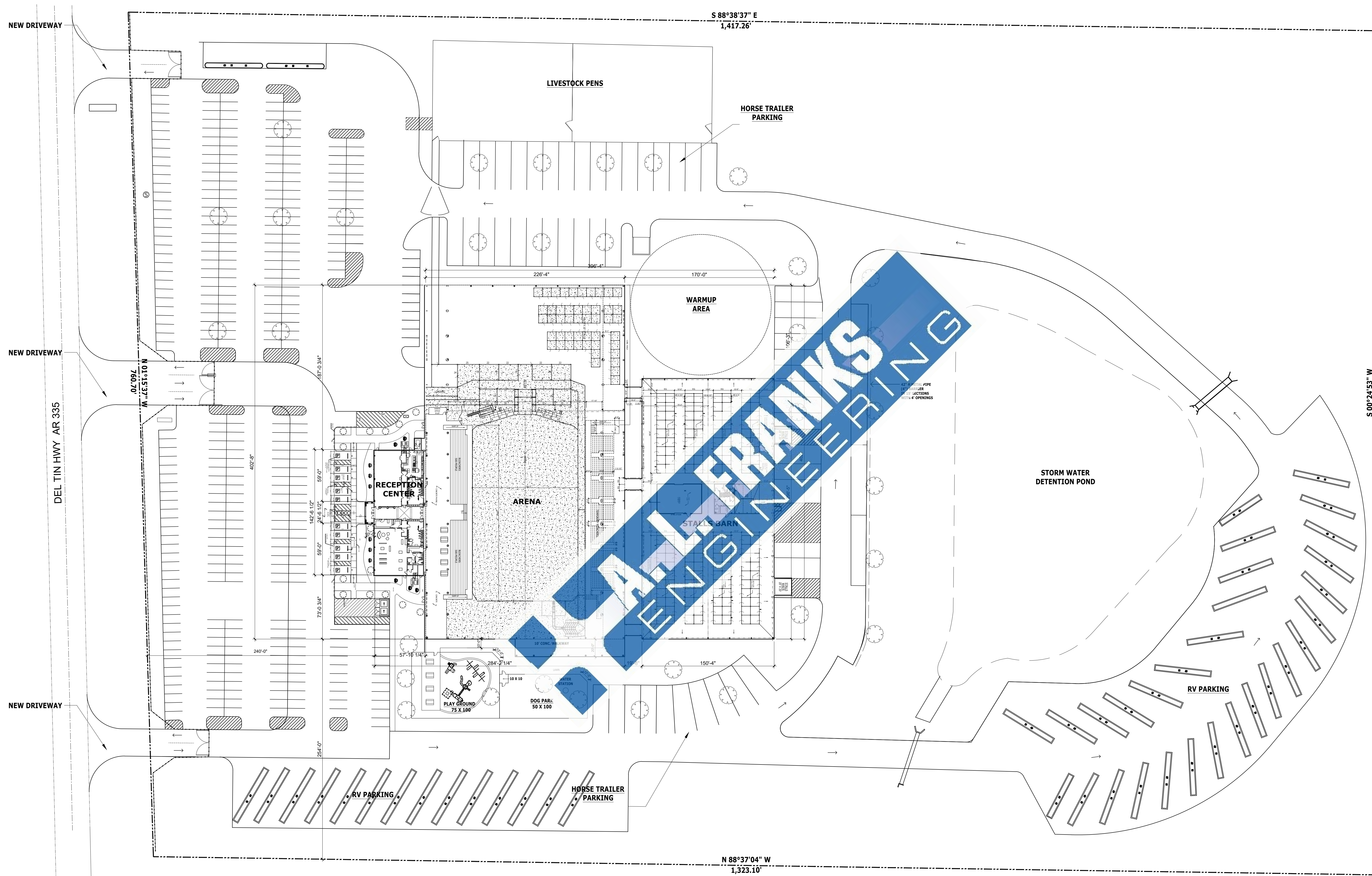
318-251-0290 800-352-7222

SECURITY SYSTEM DESIGN PROVIDED BY:

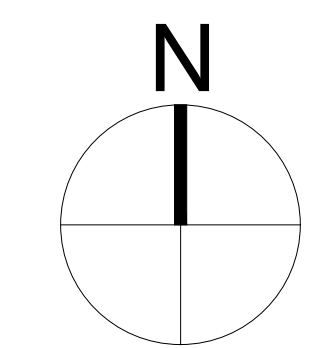
Advanced Security Terchnologies, LLC, 723 W. Hillsboro Street, El Dorado AR

870-862-0515





1
A-1.3 **SITE PLAN**
SCALE: 1" = 50'-0"



NOTE : THIS PLAN IS FOR LOCATING THE BUILDINGS ONLY. REFER TO CIVIL DRAWINGS FOR ALL OTHER INFORMATION

DOUGLAS STANTON ARCHITECT
608 E. 5th Street
El Dorado, AR 71730
310-629-9748
doug@dstantonarchitects.com
© Douglas Stanton Architect



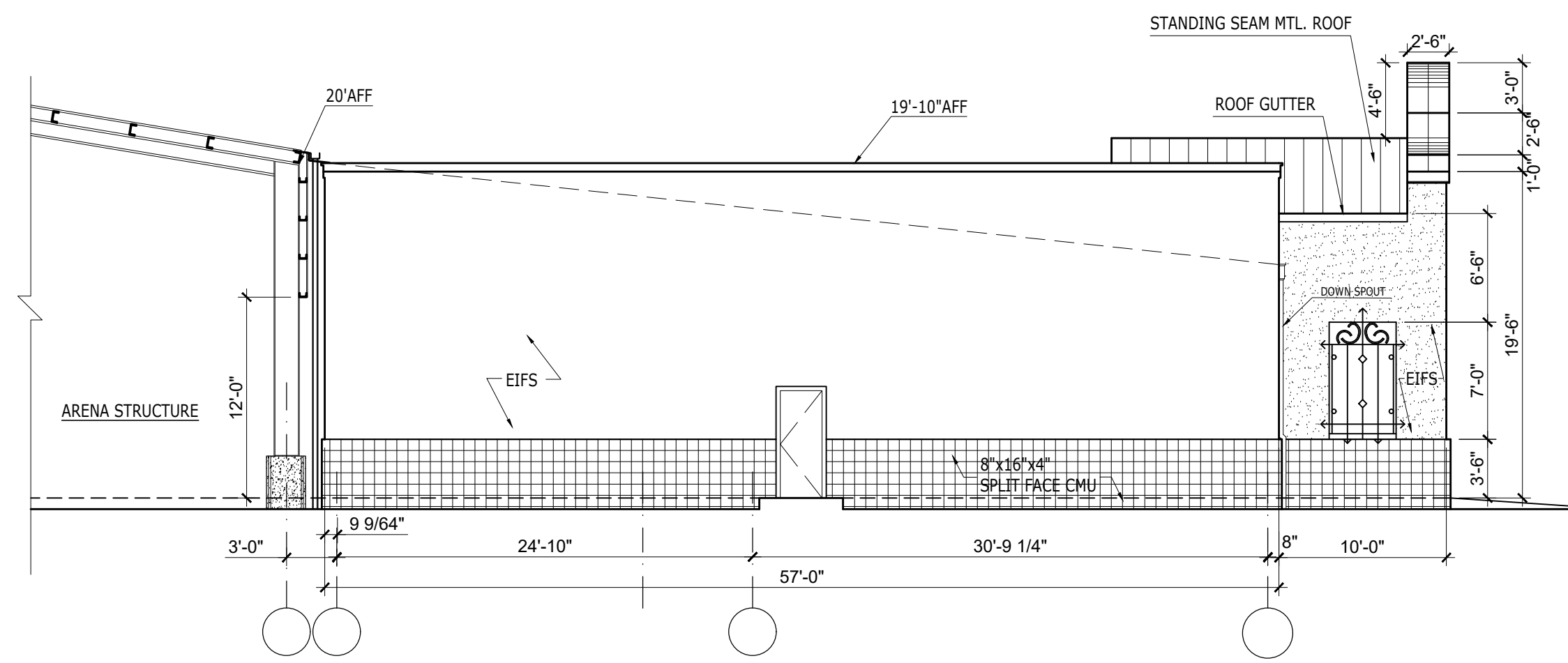
SOUTH ARKANSAS EXPO CENTER
DEL TIN HIGHWAY AR 335
EL DORADO, ARKANSAS 71730

CONSTRUCTION DRAWINGS

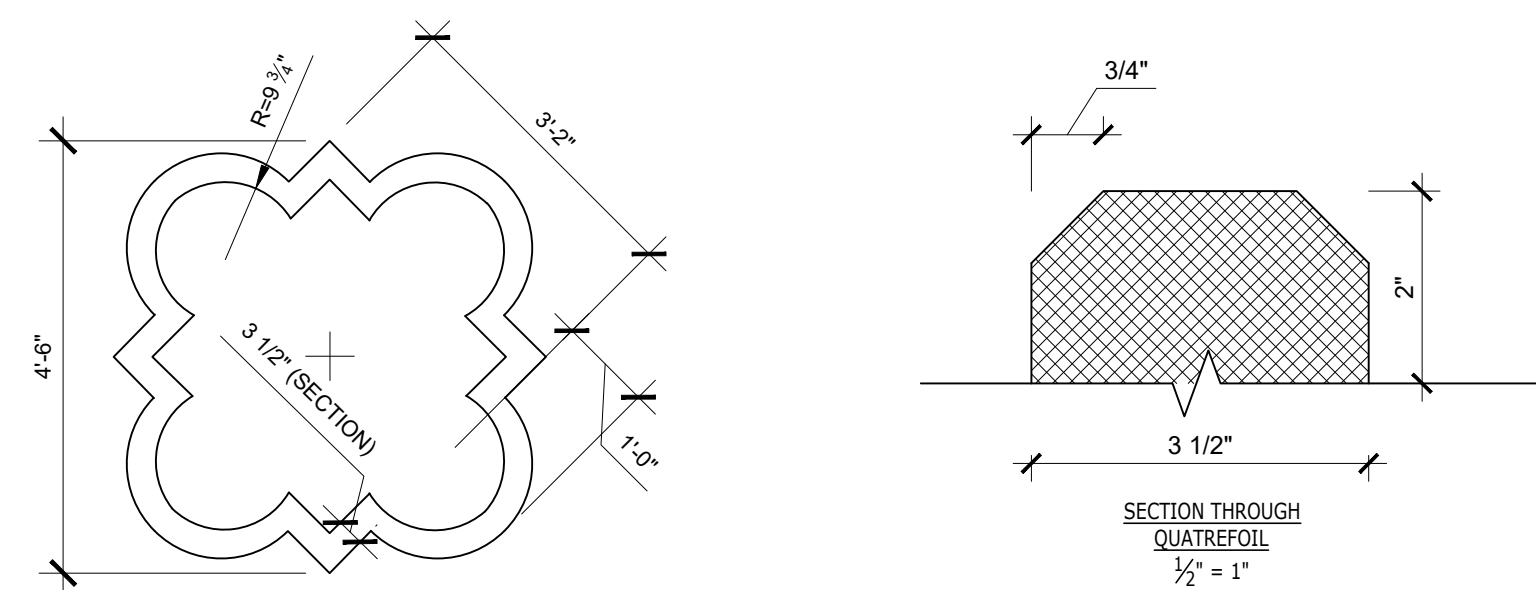
ISSUE	DATE
DESIGN	10.10.2023
DESIGN DEV.	02.16.2024
BID SET	06.20.2024
BID SET	07.12.2024



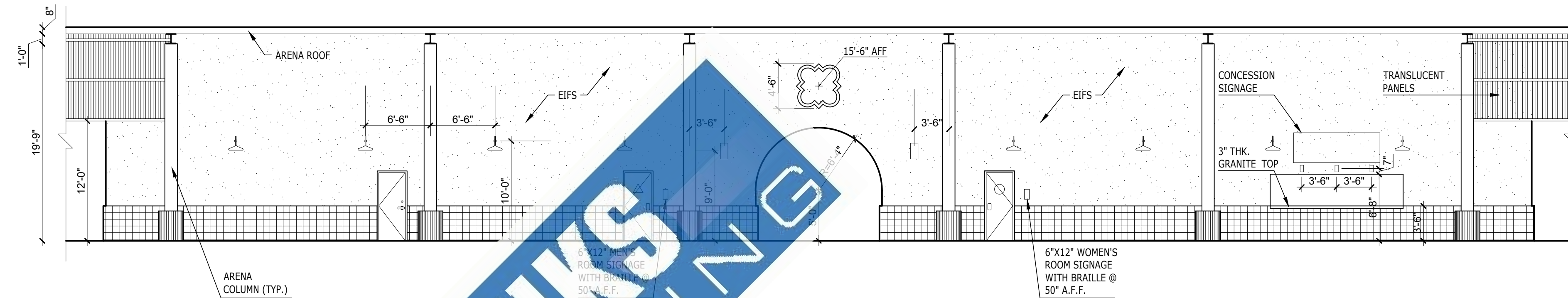
SITE PLAN
A-1.3



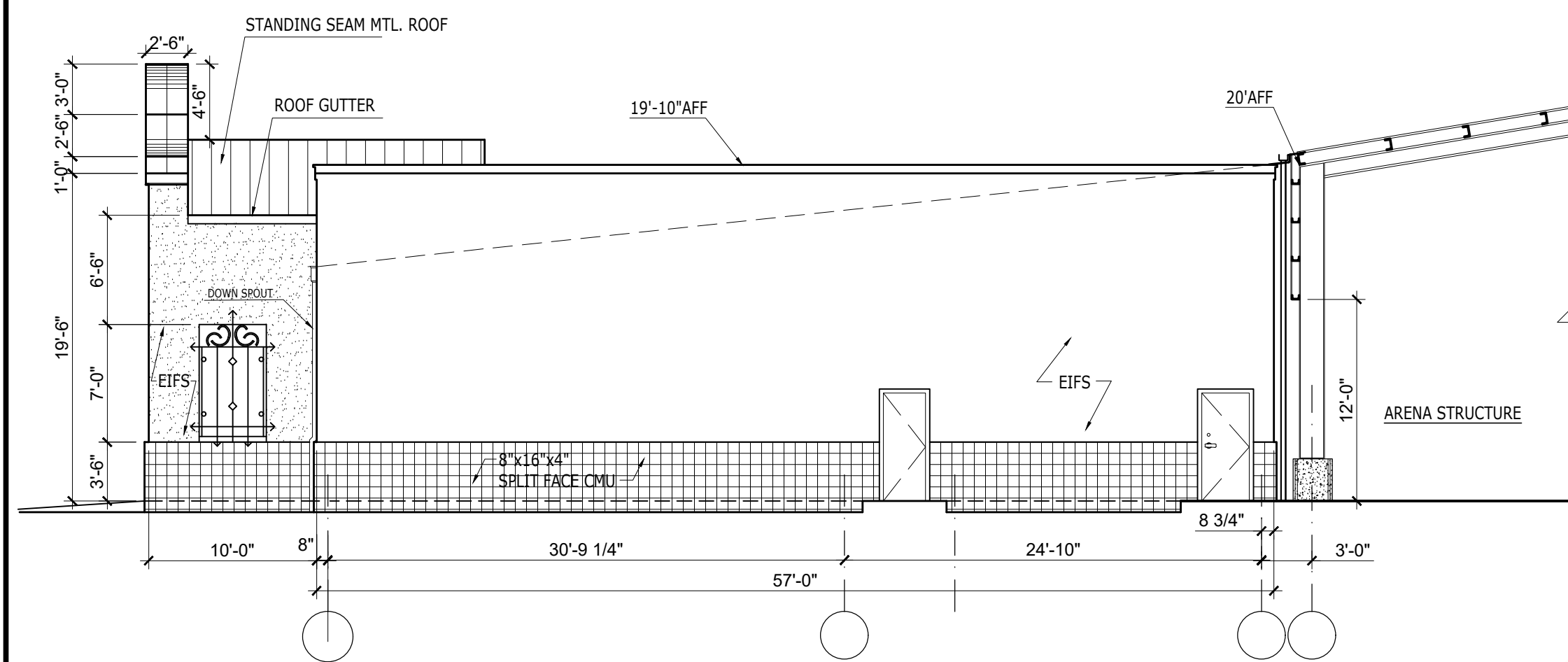
6 RECEPTION CENTER NORTH ELEVATION
A-3.0 SCALE: 1/8" = 1'



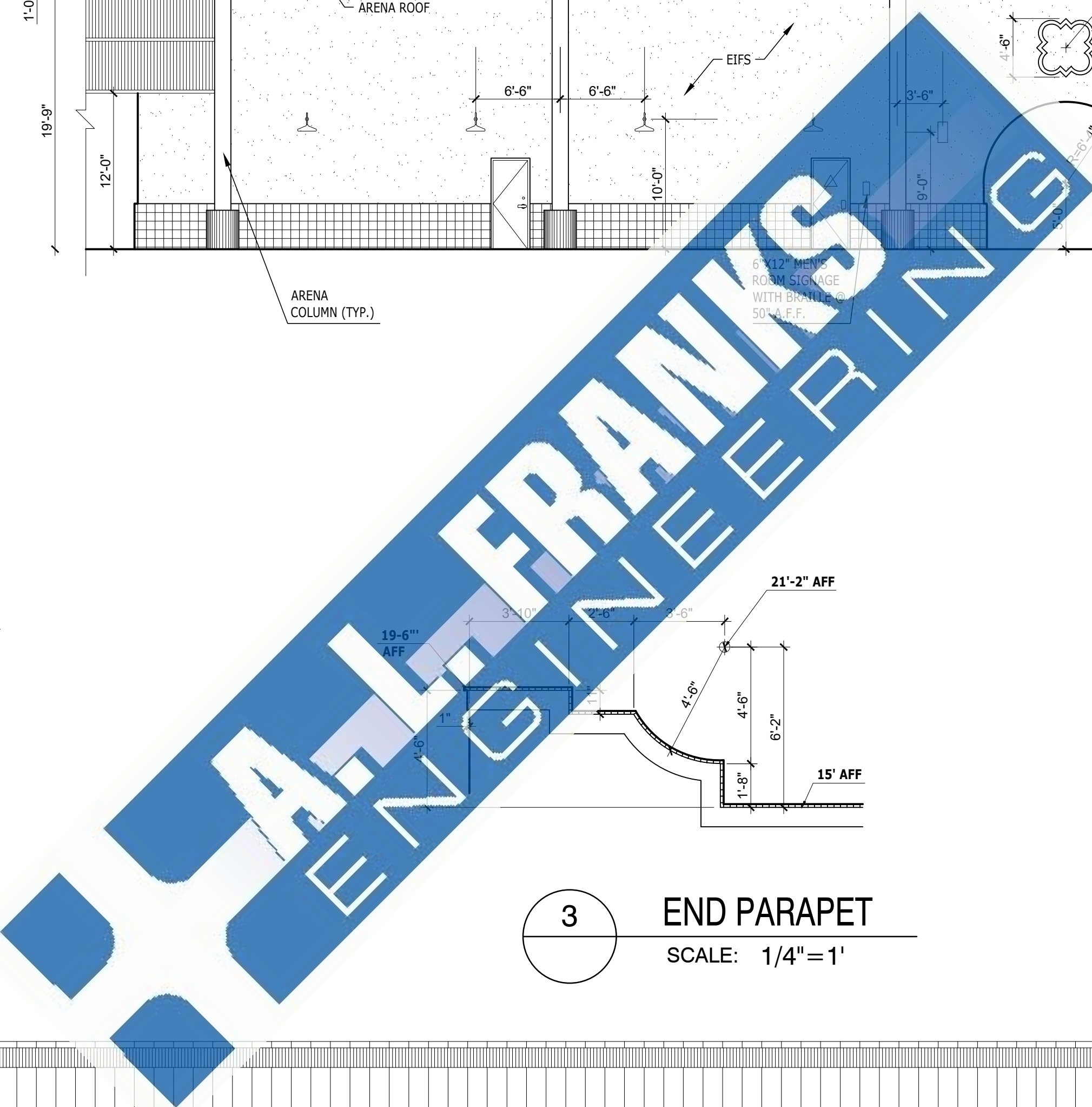
7 RAISED EIFS QUATREFOIL DETAIL
A-3.0 SCALE: 1/2" = 1'



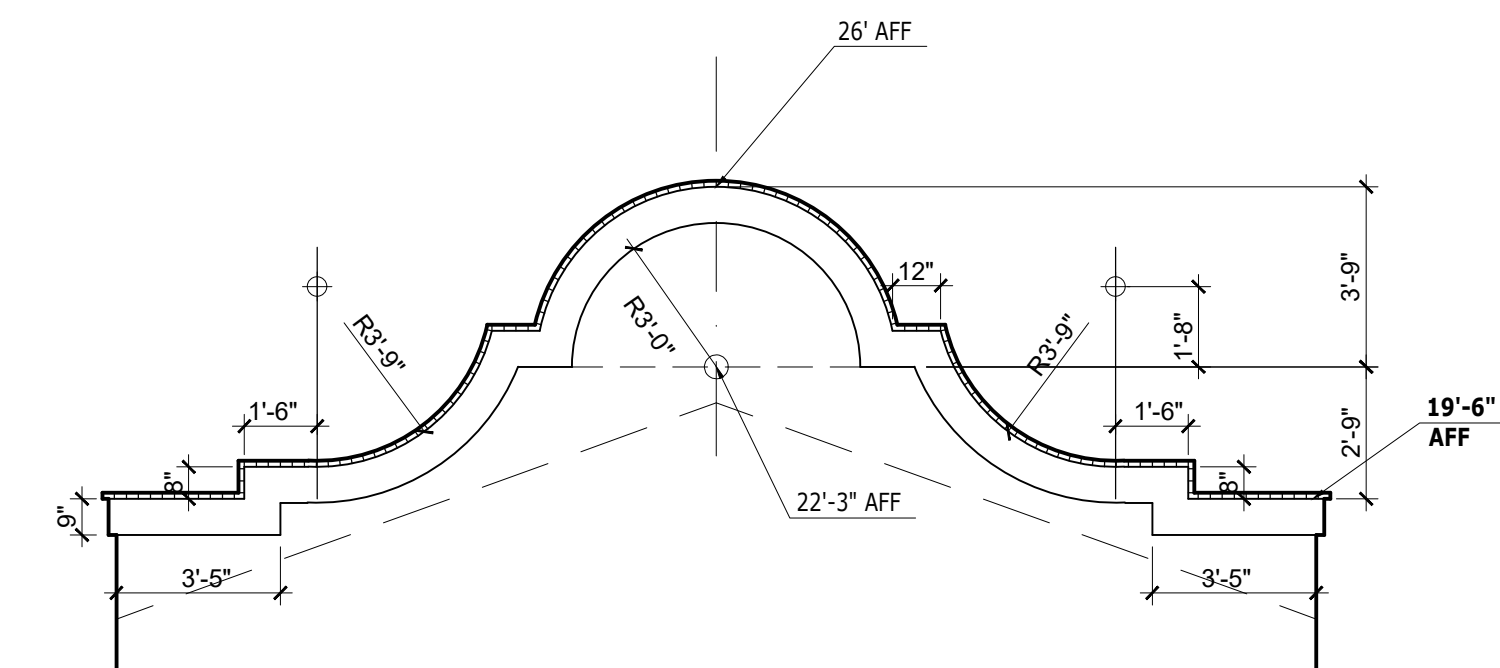
5 RECEPTION CENTER EAST ELEVATION
A-3.0 SCALE: 1/8" = 1'



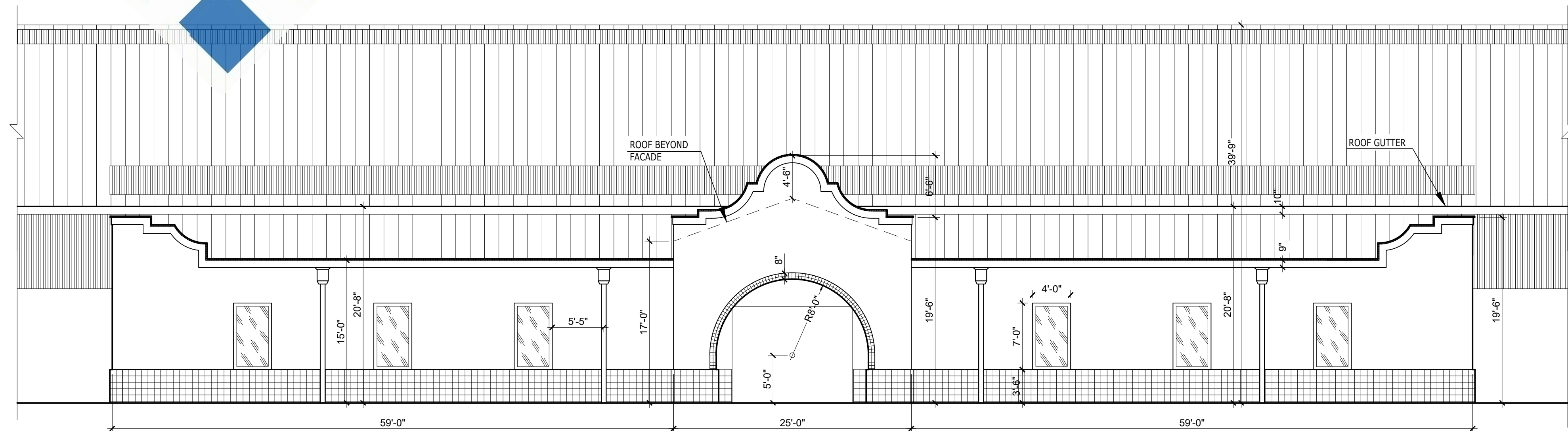
4 RECEPTION CENTER SOUTH ELEVATION
A-3.0 SCALE: 1/8" = 1'



3 END PARAPET
 SCALE: 1/4" = 1'



2 CENTER PARAPET
 SCALE: 1/4" = 1'



1 WEST ELEVATION
A-3.0 SCALE: 1/8" = 1'



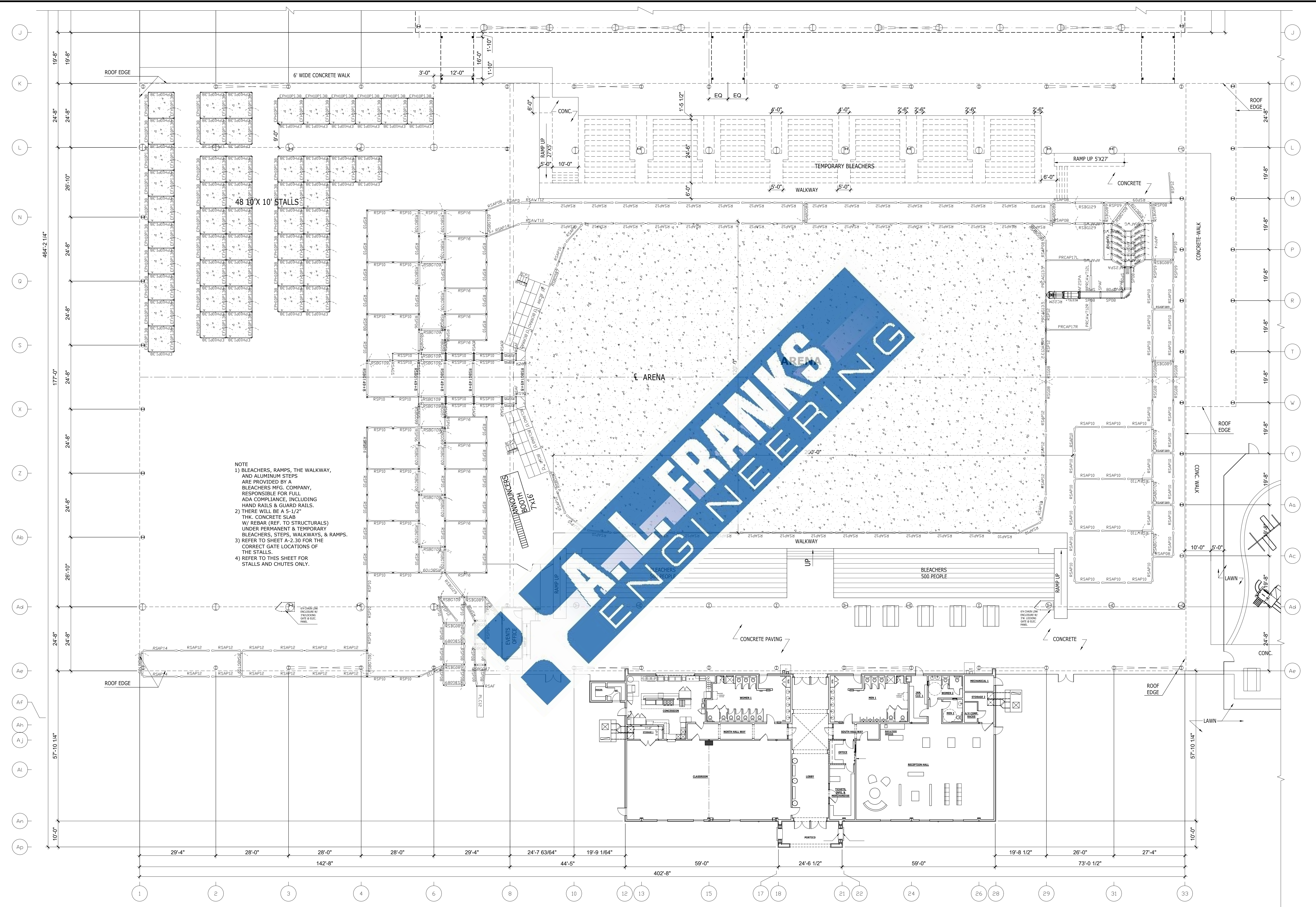
DESIGN DEVELOPMENT

ISSUE	DATE
DESIGN DEVELOPMENT	1.31.2024
BID SET	07.12.2024



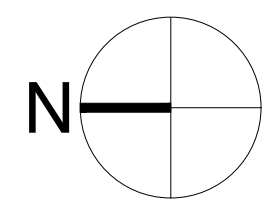
RECEPTION ELEVATIONS

A-3.0



NOTE
 1) BLEACHERS, RAMPS, THE WALKWAY, AND ALUMINUM STEPS ARE PROVIDED BY A BLEACHERS MFG. COMPANY, RESPONSIBLE FOR FULL ADA COMPLIANCE, INCLUDING HAND RAILS & GUARD RAILS.
 2) THERE WILL BE A 5-1/2" THK. CONCRETE SLAB W/ REBAR (REF. TO STRUCTURALS) UNDER PERMANENT & TEMPORARY BLEACHERS, STEPS, WALKWAYS, & RAMPS.
 3) REFER TO SHEET A-2.30 FOR THE CORRECT GATE LOCATIONS OF THE STALLS.
 4) REFER TO THIS SHEET FOR STALLS AND CHUTES ONLY.

J. FRANKS
ENGINEERING



1
STALLS.1

ARENA STALLS & CHUTES
 SCALE: 1/16" = 1'-0"

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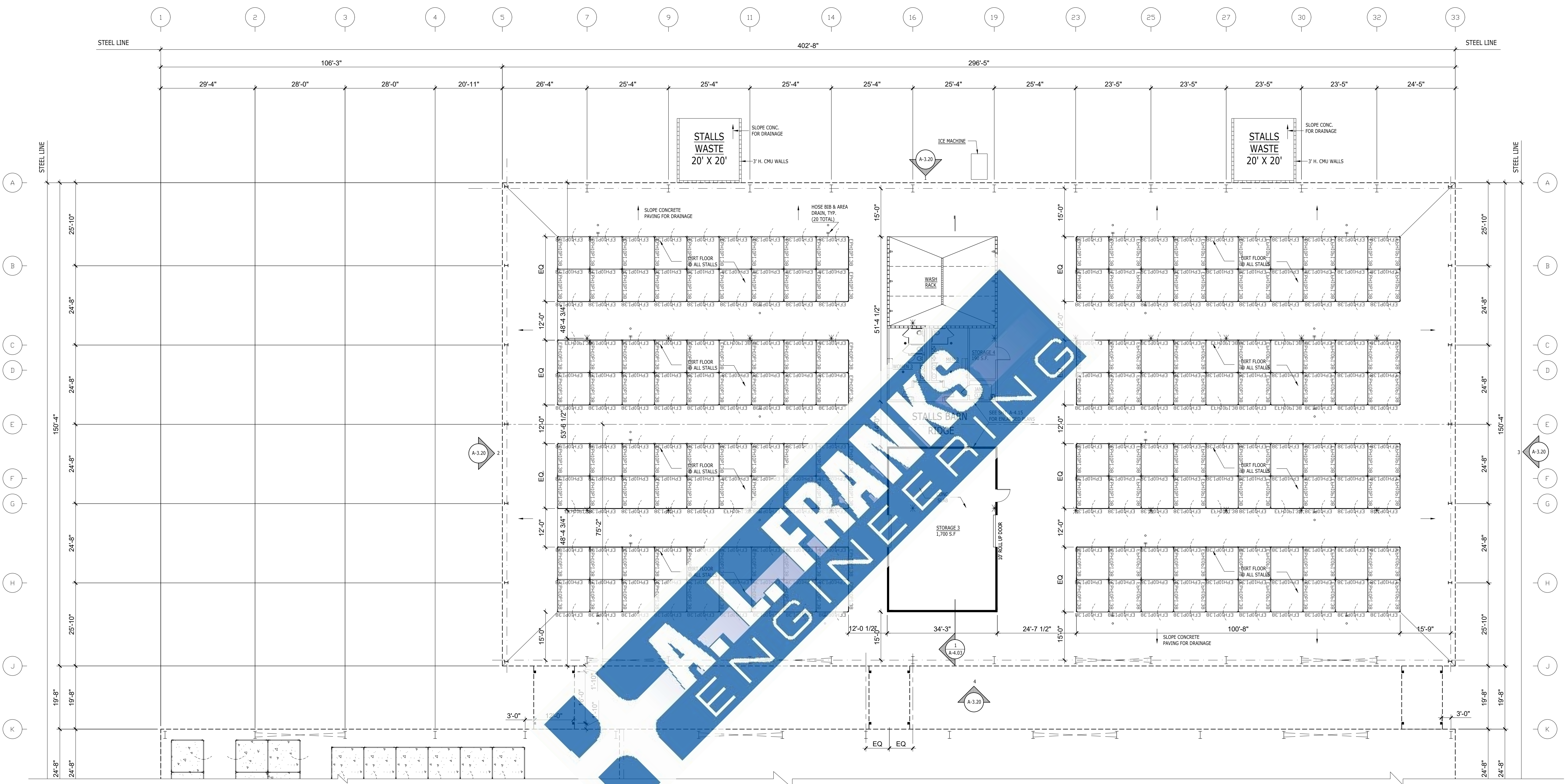
CONSTRUCTION DRAWINGS

ISSUE	DATE
DESIGN DEVELOPMENT	1.31.2024
BID SET	05.01.2024
BID SET	07.12.2024

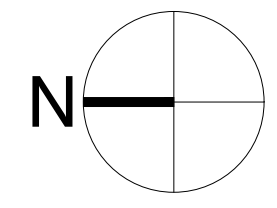


ARENA STALLS & CHUTES

STALLS.1



NOTE : REFER TO THIS SHEET FOR STALLS & CHUTES ONLY.



1
STALLS.2

STALLS BARN PLAN
SCALE: 1/16" = 1'-0"

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CONSTRUCTION DRAWINGS

ISSUE	DATE
DESIGN DEVELOPMENT	1.31.2024
BID SET	05.01.2024
BID SET	07.12.2024



STALLS BARN PLAN

STALLS.2



DESIGN DEVELOPMENT

ISSUE	DATE
Issue for Bid	6/21/2024
ADDENDUM #1	7/12/2024

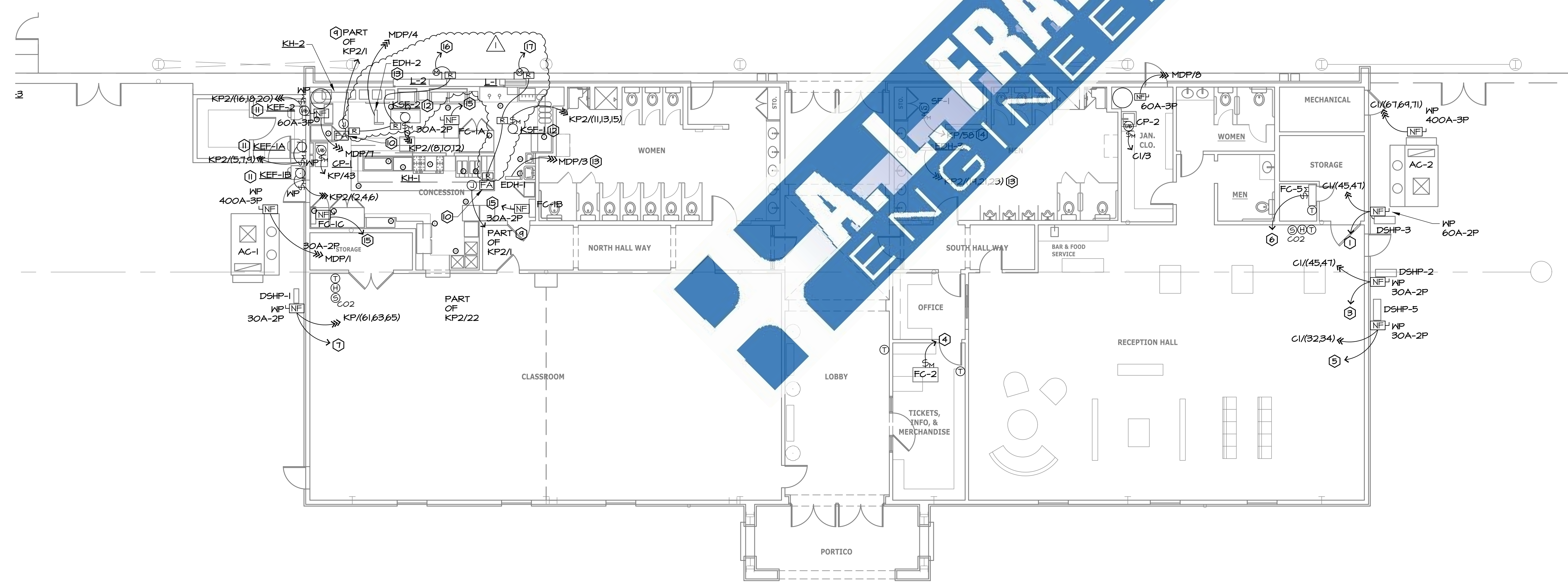


RECEPTION BLDG.
 MECH POWER PLAN

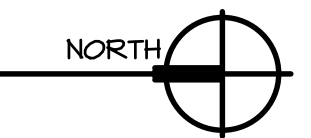
E2.13

KEYED ELECTRICAL NOTES

- ① 3 #8 & 1 #10 GRD., 3/4" C. TO INDOOR REMOTE UNIT.
- ② FROM OUTDOOR UNIT.
- ③ 3 #10 & 1 #10 GRD., 3/4" C. TO INDOOR REMOTE UNIT.
- ④ FROM OUTDOOR UNIT.
- ⑤ 3 #12 & 1 #12 GRD., 3/4" C. TO INDOOR REMOTE UNIT.
- ⑥ FROM OUTDOOR UNIT.
- ⑦ 4 #8 & 1 #10 GRD., 3/4" C. TO THREE (3) INDOOR REMOTE UNITS.
- ⑧ FROM OUTDOOR UNIT.
- ⑨ FOR HOOD LIGHTING, COORDINATE EXACT LOCATION OF CONTROL PANEL IN THE FIELD PRIOR TO ROUGH IN.
- ⑩ INTERCONNECT HOOD CONTROL PANEL AND HOOD ANSUL SYSTEM WITH FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED HARDWARE, COORDINATE EXACT LOCATION OF CONTROL PANEL IN THE FIELD PRIOR TO ROUGH IN.
- ⑪ EXHAUST FAN CONTROLLED BY KITCHEN HOOD. PROVIDE ALL CONTROL WIRING. REFER TO HOOD DETAILS AND COORDINATE WITH HOOD INSTALLER.
- ⑫ SUPPLY FAN CONTROLLED BY KITCHEN HOOD. PROVIDE ALL CONTROL WIRING. REFER TO HOOD DETAILS AND COORDINATE WITH HOOD INSTALLER.
- ⑬ FURNISHED WITH FACTORY INSTALLED DISCONNECTING MEANS.
- ⑭ PROVIDE EMPTY 3/4" C. FROM SF-1 TO EDH-3 WITH FULLSTRINGS FOR CONTROL CABLING, BY OTHERS.
- ⑮ CIRCUIT TO PANEL #KP2/22. PROVIDE EMPTY 3/4" CONDUIT TO DSHP-1.
- ⑯ PROVIDE #12 LINE VOLTAGE CONTROL WIRING FROM LOUVER RELAY TO KSF-2 RELAYS. PROVIDE QUANTITY OF RELAYS AS REQUIRED. AS LOUVERS OPEN, FAN SHALL TURN ON. PROVIDE ALL REQUIRED HARDWARE. COORDINATE WITH THE HVAC INSTALLER PRIOR TO THE START OF CONSTRUCTION. PROVIDE CONTROL WIRING FROM NEAREST RECEPTACLE CIRCUIT.
- ⑰ PROVIDE #12 LINE VOLTAGE CONTROL WIRING FROM LOUVER RELAY TO KSF-1 RELAYS. PROVIDE QUANTITY OF RELAYS AS REQUIRED. AS LOUVERS OPEN, FAN SHALL TURN ON. PROVIDE ALL REQUIRED HARDWARE. COORDINATE WITH THE HVAC INSTALLER PRIOR TO THE START OF CONSTRUCTION. PROVIDE CONTROL WIRING FROM NEAREST RECEPTACLE CIRCUIT.



① RECEPTION BLDG. MECHANICAL POWER PLAN
 1/8" = 1'-0"



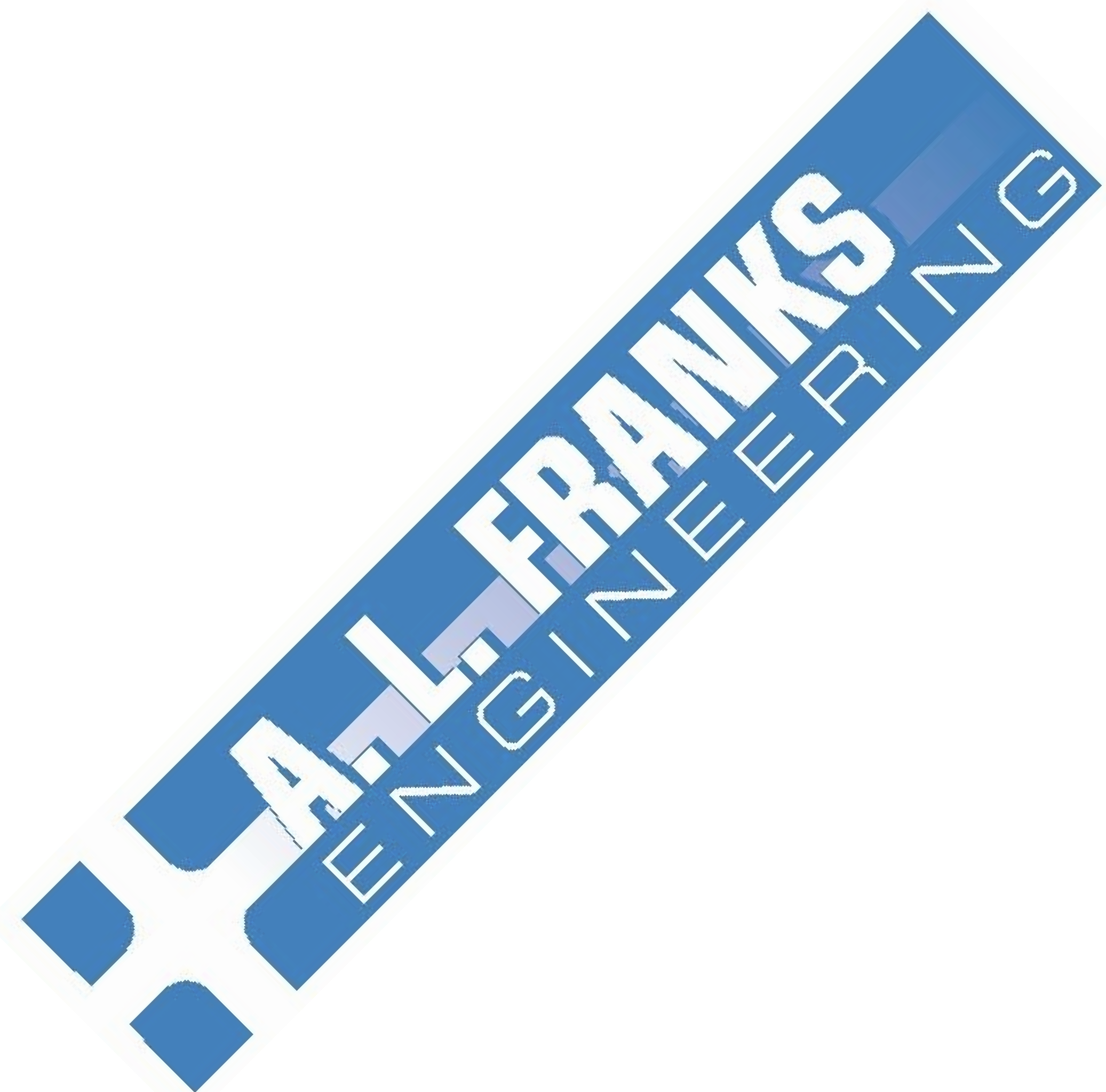
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GENERAL NOTES

1. COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
2. INDICATED DUCT SIZES ARE NET FREE AREA.
3. ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
4. INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE PLENUMS AND EXHAUST AIR PLENUMS WITH R-6 FOIL BACKED INSULATION.
5. FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
6. EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT WITH R-6 FOIL BACKED INSULATION. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT WITH R-6 INSULATION PER ARKANSAS MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
7. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
8. USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMACNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
9. INTERIOR OF ALL DUCT PLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
10. INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
11. PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
12. MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
13. INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
14. RECIRCULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED. UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
15. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE ARKANSAS MECHANICAL CODE.
16. SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
17. FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
18. MECHANICAL CONTRACTOR SHALL REFER TO THE FOOD SERVICE DRAWINGS AND PROVIDE ALL REQUIRED MECHANICAL FOOD SERVICE EQUIPMENT CONNECTIONS.
19. FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
20. EVERY ATTIC OR FURRED SPACE IN WHICH MECHANICAL EQUIPMENT IS INSTALLED SHALL BE ACCESSIBLE BY AN OPENING AND PASSAGEWAY AS LARGE AS THE LARGEST PIECE OF THE EQUIPMENT AND IN NO CASE LESS THAN 22 X 36 INCHES CONTINUOUS FROM THE OPENING TO THE EQUIPMENT AND ITS CONTROLS. THE OPENING TO THE PASSAGEWAY SHALL BE LOCATED NOT MORE THAN 20 FT. FROM THE EQUIPMENT MEASURED ALONG THE CENTER LINE OF SUCH PASSAGEWAY. EVERY PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID CONTINUOUS FLOORING NOT LESS THAN 24 IN. WIDE FROM THE EQUIPMENT. ON THE CONTROL SIDE AND OTHER SIDES WHERE ACCESS IS NECESSARY FOR SERVICING THE EQUIPMENT, A LEVEL PLATFORM EXTENDING A MINIMUM 30 IN. FROM THE EDGE OF THE EQUIPMENT WITH A 36 IN. HIGH CLEAR WORKING SPACE SHALL BE PROVIDED. TOP OR BOTTOM SERVICE EQUIPMENT SHALL HAVE A FULL CLEARANCE ABOVE OR BELOW THE UNIT FOR COMPONENT REMOVAL.
21. EVERY APPLIANCE LOCATED ON A ROOF OF A BUILDING SHALL BE INSTALLED ON A SUBSTANTIAL LEVEL PLATFORM. WHENEVER THE ROOF HAS A SLOPE 4:12 OR GREATER, LEVEL WORKING PLATFORM NOT LESS THAN 30 IN. DEEP SHALL BE PROVIDED IN FRONT OF THE ENTIRE FIREBOX AND CONTROL SIDES OF THE APPLIANCE. ALL SIDES OF ANY WORKING PLATFORM FACING ANY PORTION OF THE ROOF EDGE BELOW THE PLATFORM SHALL BE PROTECTED BY SUBSTANTIAL RAILING 42 IN. HIGH WITH VERTICAL RAILS NOT MORE THAN 21 IN. APART, EXCEPT THAT PARAPETS AT LEAST 24 IN. HIGH MAY BE UTILIZED IN LIEU OF RAILS OR GUARDS. REQUIRED WORKING PLATFORMS AND RAILINGS MAY BE OMITTED WHEN ACCESS TO THE EQUIPMENT IS THROUGH A REQUIRED ROOF SCUTTLE AND ALL OF THE FOLLOWING PROVISIONS ARE MET:
 - A. THE REQUIRED SCUTTLE IS LOCATED IMMEDIATELY ADJACENT TO THE CONTROL SIDE OF THE EQUIPMENT UNIT.
 - B. ALL CONTROLS, FILTERS, BURNERS, FANS, AND MOTORS ARE ACCESSIBLE FOR SERVICE AND REPAIR WITHIN 2 FT. OF THE EDGE OF THE EQUIPMENT PLATFORM ON THE SCUTTLE SIDE.
 - C. THE EQUIPMENT PLATFORM IS NOT MORE THAN 20 IN. ABOVE THE HIGH SIDE OF THE SCUTTLE OPENING.
 - D. A SUBSTANTIAL WORKING PLATFORM NOT LESS THAN 30 IN. BY 30 IN. SHALL BE PROVIDED DIRECTLY BELOW THE SCUTTLE AT A POINT NOT LESS THAN 30 IN. OR MORE THAN 32 IN. BELOW THE HIGH SIDE OF THE SCUTTLE OPENING.
 - E. SCUTTLES LOCATED ON OTHER THAN THE ROOF INCLINE SIDE OF THE EQUIPMENT UNIT SHALL HAVE THEIR LIDS OR TRAP DOORS HINGED ON THE LOW SIDE OF THE SCUTTLE.
22. SMOKE DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
23. SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.

KEYED NOTES

- ① SMOKE DETECTORS TO BE INSTALLED IN THE SUPPLY AND RETURN AIR DUCTS AND INTERLOCKED WITH AIR HANDLER FAN FOR SHUT-OFF PER N.F.P.A. 90 A & B ON ALL AIR HANDLERS GREATER THAN 2000 C.F.M. SUPPLY AIR DUCT SMOKE DETECTOR SHALL BE INSTALLED ON SUPPLY SIDE OF AIR HANDLING SYSTEM DOWN STREAM OF ANY AIR FILTERS AND PRIOR TO ANY BRANCH DUCT CONNECTIONS. EXCEPTION: THE SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 C.F.M. OR LESS. CAPACITY. RECIRCULATING AIR SYSTEMS WITH FAN CAPACITY LESS THAN 2000 C.F.M., BUT SERVING AREAS USED FOR EGRESS SHALL HAVE AUTOMATIC SMOKE DETECTION SHUTDOWN. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY (MECHANICAL CONTRACTOR). MECHANICAL CONTRACTOR SHALL WIRE SMOKE DETECTOR TO THE FAN SHUT OFF CONTACTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO MAKE THE FAN SHUT OFF CONNECTION. LOCATE SMOKE DETECTORS IN RETURN AIR DUCT PRIOR TO THE INTRODUCTION OF THE OUTSIDE AIR.
- ② MAINTAIN 10 FT. CLEARANCE BETWEEN ALL EXHAUST OR ROOF VENT OPENINGS AND ANY FRESH AIR INTAKE. IF 10 FT. CLEARANCE CANNOT BE MAINTAINED, EXHAUST OR ROOF VENT SHALL BE RAISED TO AT LEAST 36 INCHES ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. OF INTAKE PER 2010 ARKANSAS MECHANICAL CODE.
- ③ LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
- ④ MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT, FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.



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DESIGN DEVELOPMENT

ISSUE	DATE
Issue for Bid	06/21/2024
△ Add. #1	07/12/2024



6/21/2024

HVAC GENERAL NOTES, LEGEND

M1.1

MINISPLIT SINGLE-ZONE HEAT PUMP SCHEDULE														
MARK	MFG	OUTDOOR MODEL #	INDOOR MODEL #	TON	CFM (L-M-H)	COOLING		HEATING MBH	UNIT WEIGHTS		ELECTRICAL			ACCESSORIES
						TMBH	SMBH		OUTDOOR	INDOOR	M.C.A.	M.O.P.	VOLT/PH/HZ	
DSHP-2/FC-2	LG	LUU180HV	LHN180HV1	1.5	424-530-635	18.0		20	130	62	20	30	208-230 / 1 / 60	I THRU 6
DSHP-3/FC-3	LG	LSU240HFV3	LSN240HFV3	2	370-460-640	22		22	100	25	15	20	208-230 / 1 / 60	I THRU 6
DSHP-4/FC-4	LG	LUU240HV	LVN240HV4	2	480-640-710	23.2		21	130	117	20	30	208-230 / 1 / 60	I THRU 6
DSHP-5/FC-5	LG	LSU240HFV3	LSN240HFV3	2	370-460-640	22		22	100	25	15	20	208-230 / 1 / 60	I THRU 6

- * REMARKS / ACCESSORIES:
- CONDENSATE PUMP
 - VARIABLE SPEED INDOOR FAN
 - INVERTER COMPRESSOR
 - INDOOR UNIT POWERED BY EDH-000
 - SIMPLE CONTROLLER - FREMTC000
 - SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS. COAT INSULATION WITH ARMAFLEX WEATHER PROTECTIVE COATING.

SUPPLY FAN SCHEDULE											
MARK	MFG	MODEL	CFM	ESP. IN. WC	H.P. / WATTS	VOLT / PH / HZ	RPM	SONE	WEIGHT	REMARKS/ ACCESSORIES	
SF-1	GREENHECK	SQ-120-V6	1200	0.5	1/2 HP	115 / 1 / 60	1357	8.4	70 LBS	I THRU 12	

- REMARKS/ACCESSORIES:
- VARI-GREEN MOTOR
 - VARI-GREEN TOUCH REMOTE CONTROL
 - H-O-A CONTROL
 - NEMA-1 TOGGLE
 - ISOLATION KIT
 - INLET/OUTLET FLANGE
 - INTERLOCK WITH EDH-3

PACKAGED UNIT SCHEDULE																	
MARK	MFG.	MODEL	COOLING					PRIMARY HEAT (MBH)	REHEAT (MBH)	AUX HEATING INPUT (KW)	MIN. AIR OUTSIDE (CFM)	FAN MOTOR HP	ELECTRICAL			*REMARKS/ ACCESSORIES	
			NOM. TONS	COOLING TOT/ SENS (MBH)	EER	CFM	ESP. IN. WC						MIN. CIRC. AMPS	MAX FUSE SIZE	VLT/PH/HZ		UNIT WEIGHT LBS.
AC-1	GREENHECK	RV-25-15A-1-G2	15	182 / 130	10.6	5000	0.75	125.4	145	30	1000	5	140.5	225	208 / 3 / 60	2,700	I THRU 34
AC-2	GREENHECK	RV-25-15A-1-G2	15	182 / 130	10.6	5000	0.75	125.4	145	30	1000	5	140.5	225	208 / 3 / 60	2,700	I THRU 34

- * REMARKS / ACCESSORIES:
- AMBIENT CONDITIONS: SUMMER 90/80, WINTER 17
 - ASHP, AUX ELEC HEAT, SINGLE POINT CONNECTION
 - VERTICAL SUPPLY & RETURN
 - 36" HIGH CURB FOR HORIZONTAL DISCHARGE
 - DOUBLE WALL CONSTRUCTION, 2" R13 FOAM INSULATION
 - HINGED ACCESS DOORS
 - FACTORY WIRED NON-FUSED DISCONNECT
 - DIRECT WIRE PLENUM BLOWER/MOTOR ASSEMBLY
 - FACTORY WIRED VFDs
 - STAINLESS STEEL CONDENSATE DRAIN AND CONNECTION
 - FACTORY CONTROLS
 - 52VAV
 - WEB-BASED USER INTERFACE
 - DAMPER CONTROL - CO2 SENSOR BY FACTORY
 - DIRTY FILTER SENSOR
 - ROOM THERMOSTAT - SPACE TEMP/RH
 - PHASE/BROWNOUT PROTECTION
 - RECIRC AIR DAMPER - LOW LEAKAGE
 - OSA DAMPER - LOW LEAKAGE
 - MERV 8 FILTERS
 - CONDENSATE OVERFLOW SWITCH
 - BAROMETRIC RELIEF DAMPER
 - HAIL GUARDS
 - UNIT WARRANTY - 10 MOS
 - 5.5 YEAR COMPRESSOR WARRANTY
 - MODULATING SCR AUX HEAT
 - INVERTER SCROLL - LEAD, 2 COMP
 - COMPRESSOR VIBRATION ISOLATION
 - CRANKCASE HEATER
 - SIGHT GLASS
 - SERVICE/CHARGING VALVES
 - MULTIPLE LOW SOUND OUTDOOR FANS WITH LEAD ECM OUTDOOR FAN WITH MODULATING HEAD PRESSURE CONTROL.
 - ASHP AND ELEC HEAT CAN OPERATE SIMULTANEOUSLY.
 - HGRH DEHUMIDIFICATION

AIR DISTRIBUTION SCHEDULE								
MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS/ ACCESSORIES
A	50-100	12"X12" / 6"φ	TITUS	TMS-AA	4-WAY SUPPLY	WHITE	SURFACE	1, 2, 4
B	105-240	24"X24" / 8"φ	TITUS	TMS-AA	4-WAY SUPPLY	WHITE	LAY-IN	1, 2
C	245-340	24"X24" / 10"φ	TITUS	TMS-AA	4-WAY SUPPLY	WHITE	LAY-IN	1, 2
D	345-600	24"X24" / 12"φ	TITUS	TMS-AA	4-WAY SUPPLY	WHITE	LAY-IN	1, 2
E	345-600	24"X24" / 12"φ	TITUS	TMS-AA	4-WAY SUPPLY	WHITE	LAY-IN	1, 2
F	105-240	48" / 1" SLOT, 8"φ	TITUS	TBDI-HO	INSULATED SLOT DIFF.	WHITE	LAY-IN	2, 4, 8
G	50-100	8"X8"	TITUS	300FS	SIDEWALL SUPPLY	WHITE	SURFACE	1, 2, 5
H	345-600	24"X24" / 12"φ	TITUS	50F	CUBE CORE EXHAUST	WHITE	LAY-IN	2, 3
J	345-600	24"X24" / 12"φ	TITUS	355FLFI	FILTERED RETURN	WHITE	LAY-IN	2, 3, 5, 9
K	345-600	24"X24" / 8"φ	TITUS	355FLFI	FILTERED RETURN	WHITE	LAY-IN	2, 3, 5, 9
L	105-240	48"X24" / (2)16"φ	TITUS	355FL	LOUVER RETURN	WHITE	SURFACE	2, 3, 5
M	100-2500	30" W X 48" H	TITUS	30RS	HEAVY DUTY SIDEWALL RETURN	WHITE	SURFACE	6
P	255-750	18" W X 18" H	TITUS	C-700	DOOR GRILLE	WHITE	SURFACE	6, 7
Q	50-250	10" W X 10" H	TITUS	C-700	DOOR GRILLE	WHITE	SURFACE	6, 7

- REMARKS/ACCESSORIES:
- FACTORY OPPOSED BLADE DAMPERS.
 - ALUMINUM CONSTRUCTION
 - PROVIDE INSULATED SOUNDRAND GRILLE CONNECTIONS.
 - PLASTER FRAME FOR SURFACE MOUNT CEILING, CUT AND CENTER IN TILE.
 - PROVIDE DOUBLE DIRECTIONAL BLADES.
 - STEEL WOOD/DUCT
 - DOUBLE FLANGE, 12" WIDE
 - INSULATED PLENUM
 - 1" FILTER

EXHAUST FAN SCHEDULE										
MARK	MFG.	MODEL	CFM	E.S.P. IN. WC	HP/ W	VLT / PH / HZ	SONE	RPM	UNIT WEIGHT LBS.	ACCESSORIES
EF-1	GREENHECK	SQ-100-V6	750	0.5	1/4	115 / 1 / 60	5.2	1313	62	1, 2, 3, 6, 7
EF-2	GREENHECK	SQ-100-V6	750	0.5	1/4	115 / 1 / 60	5.2	1313	62	1, 2, 3, 6, 7
EF-3	GREENHECK	SP-A200	150	0.375	3/6 W	115 / 1 / 60	2.0	801	27	1, 2, 3, 4, 5, 6, 13
EF-4	GREENHECK	SP-A200	150	0.375	3/6 W	115 / 1 / 60	2.0	801	27	1, 2, 3, 4, 5, 6, 7
EF-5	GREENHECK	SP-B110	75	0.375	80 W	115 / 1 / 60	1.0	768	13	1, 2, 3, 4, 5, 6, 7
EF-6	GREENHECK	SP-A340	225	0.375	135 W	115 / 1 / 60	2.5	1016	27	1, 2, 3, 4, 5, 6, 7
EF-7	GREENHECK	SP-A340	225	0.375	135 W	115 / 1 / 60	2.5	1016	27	1, 2, 3, 4, 5, 6, 7
EF-8	GREENHECK	BAER-30	4000	0.125	1/3 HP	115 / 1 / 60	18.0	547	300	1, 2, 3, 4, 6, 9, 10, 11, 12, 13, 14
EF-9	GREENHECK	SP-B110	75	0.375	80 W	115 / 1 / 60	1.0	768	13	1, 2, 3, 4, 5, 6, 13

- * REMARKS / ACCESSORIES:
- FACTORY BACK DRAFT DAMPER
 - FACTORY INSTALLED FAN SPEED CONTROLLER
 - VIBRATION ISOLATORS
 - STANDARD GRILLE
 - WALL CAP
 - DISCONNECT
 - INTERLOCK WITH LIGHTS BY ELEC CONTRACTOR
 - LINE VOLTAGE T-STAT, SET FOR 80 F
 - LIFTING LUGS
 - WEATHERHOOD
 - PROVIDE MOTOR GUARD, OSHA EXTENDED WALL HOUSING, DAMPER.
 - PROVIDE NEMA-1 DISCONNECT
 - H-O-A MOTOR STARTER PROVIDED BY MECH, INSTALLED BY ELEC. INTERLOCK EF-8 WITH L-5 & 6.
 - INTERLOCK WITH MANUAL MOTOR STARTER BY ELEC CONTRACTOR.
 - BELT TENSIONER

VRF OUTDOOR UNIT SCHEDULE											
MARK	MFG	MODEL	TOTAL CAPACITY (MBH)	COOLING DBT	HEATING DBT	SEER	ELECTRICAL			ACCESSORIES	
							M.C.A.	M.O.P.	VOLT/PH/HZ		
DSHP-1	LG	ARN101355E1	4.72	99	75.9	15.1	21.8	24.4	40	208-230 / 3 / 60	I THRU 3

- * REMARKS / ACCESSORIES:
- INVERTER COMPRESSOR
 - SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATION. COAT INSULATION WITH ARMAFLEX WEATHER PROTECTIVE COATINGS.
 - SEPARATE POWER REQUIREMENTS FROM ASSOCIATED INDOOR UNITS.

VRF INDOOR UNIT SCHEDULE											
MARK	MFG	MODEL	TYPE	WEIGHT (LBS)	ELECTRICAL			ACCESSORIES			
					TMBH	SMBH	HEATING		CFM	MCA	VOLT/PH/HZ
FC1A	LG	ARNJ363TAA4	CASSETTE 4-WAY	60	36.2	26.8	40.6	988/838/735/653	2.04	208-230 / 1 / 60	I THRU 6
FC1B	LG	ARNJ1835K54	HIGH WALL	30	19.1	13.	21.5	494/424/371	0.65	208-230 / 1 / 60	I THRU 6
FC1C	LG	ARNJ1638BA4	HIGH WALL	30	19.1	13.	21.5	494/424/371	0.65	208-230 / 1 / 60	I THRU 6

- REMARKS/ACCESSORIES:
- UNITS PAIRED WITH OUTDOOR UNIT DSHP-1
 - UNITS HAVE SEPARATE POWER FROM OUTDOOR UNIT
 - STANDARD CASSETTE PANEL (FC-1A)
 - CONDENSATE PUMP (FC-1A, 1B, & 1C)
 - LG-FREMTCV2 MULTISITE CR22 REMOTE CONTROLLER, COLOR DIGITAL TOUCH SCREEN INTERFACE, 1-DAY SCHEDULING
 - BRANCH/HEADER: ARBLN01621 - QTY (2)

LOUVER SCHEDULE									
MARK	CFM	NECK SIZE	MFG.	FREE AREA	MODEL	TYPE	FINISH	FRAME	REMARKS/ ACCESSORIES
L-1	3076	36" W X 36" H	GREENHECK	3.49 SF / 40%	EACA-601	COMBINATION LOUVER/DAMPER	2GT 70% KYNAR	FLANGED	1, 2, 3, 4, 5, 6, 7
L-2	1600	26" W X 30" H	GREENHECK	1.94 SF / 37.3%	EACA-601	COMBINATION LOUVER/DAMPER	2GT 70% KYNAR	FLANGED	1, 2, 3, 4, 5, 6, 8
L-3	750	20" W X 20" H	GREENHECK	1.11 SF / 41%	ESD-635	EXHAUST	2GT 70% KYNAR	FLANGED	1, 4, 5, 6
L-4	750	20" W X 20" H	GREENHECK	1.11 SF / 41%	ESD-635	EXHAUST	2GT 70% KYNAR	FLANGED	1, 4, 5, 6
L-5	2000	30" W X 30" H	GREENHECK	2.31 SF / 37.6%	EACA-601	COMBINATION LOUVER/DAMPER	2GT 70% KYNAR	FLANGED	1, 2, 3, 4, 5, 6, 9
L-6	2000	30" W X 30" H	GREENHECK	2.31 SF / 37.6%	EACA-601	COMBINATION LOUVER/DAMPER	2GT 70% KYNAR	FLANGED	1, 2, 3, 4, 5, 6, 4
L-7	1200	30" W X 18" H	GREENHECK	1.42 SF / 41%	ESD-635	INTAKE	2GT 70% KYNAR	FLANGED	1, 4, 5, 6

- * REMARKS / ACCESSORIES:
- COLOR BY ARCHITECT
 - 2-POSITION 120 VAC ACTUATOR MOUNTED IN AIR STREAM, FAIL CLOSED
 - NEMA 1 ENCLOSURE
 - DRAINABLE
 - BIRD SCREEN
 - 6" DEEP FRAME
 - INTERLOCK L-1 WITH KSF-1, LOUVER OPEN THEN ENERGIZE SUPPLY FAN
 - INTERLOCK L-2 WITH KSF-2, LOUVER OPEN THEN ENERGIZE SUPPLY FAN
 - INTERLOCK L-5 & 6 WITH EF-8, LOUVERS OPEN THEN ENERGIZE EXHAUST FAN.

HVLS SCHEDULE										
MARK	MFG	MODEL	CFM	DIA.	HP/ W	VLT / PH / HZ	MAX DB	RPM MAX	WEIGHT (LBS)	REMARKS/ ACCESSORIES
HVLS-1	GREENHECK	DC-6-24-170LV	243,000	24	1100	208 / 3 / 60	50	61	260	I THRU II
HVLS-2	GREENHECK	DC-6-24-170LV	243,000	24	1100	208 / 3 / 60	50	61	260	I THRU II
HVLS-3	GREENHECK	DC-6-24-170LV	243,000	24	1100	208 / 3 / 60	50	61	260	I THRU II
HVLS-4	GREENHECK	DC-6-24-170LV	243,000	24	1100	208 / 3 / 60	50	61	260	I THRU II
HVLS-5	GREENHECK	DC-6-24-170LV	243,000	24	1100	208 / 3 / 60	50	61	260	I THRU II
HVLS-6	GREENHECK	DC-6-24-170LV	243,000	24	1100	208 / 3 / 60	50	61	260	I THRU II

- * REMARKS / ACCESSORIES:
- PROVIDE DIRECT DRIVE
 - FACTORY DIGITAL REMOTE CONTROLLER WITH TOUCH PAD
 - PROVIDE DROP POLE (FIELD VERIFY LENGTH PRIOR TO ORDERING)
 - PROVIDE MOUNTING HARDWARE
 - FACTORY FORWARD AND REVERSE
 - FACTORY VFD
 - CLEARCOAT ANODIZED AIRFOIL BLADES
 - SAFETY COMPONENTS: SAFETY CABLE, UNIVERSAL MOUNT WITH GUY WIRES, BLADE RETAINER LINKS.
 - PLUG-AND-PLAY NETWORK COMMUNICATION WIRING
 - FIRE ALARM WIRING PIGTAIL, LOW-VOLTAGE NORMALLY CLOSED ELECTROMECHANICAL FIRE ALARM RELAY
 - SWITCH, NEMA-3R TOGGLE

ELECTRIC DUCT HEATER SCHEDULE							
MARK	MFG	MODEL	CFM	HEATING INPUT KW	VOLT / PH / HZ	DUCT SIZE	ACCESSORIES
EDH-2	GREENHECK	IDHE	1600	20	208 / 3 / 60	16 X 16	I THRU 12
EDH-3	GREENHECK	IDHE	1200	12	208 / 3 / 60	16 X 16	I THRU 12

- REMARKS/ACCESSORIES:
- HINGED CONTROL CABINET COVER
 - AUTO RESET THERMAL SAFETY SWITCH
 - HEAVY GAUGE 660 CONSTRUCTION
 - 24 VAC CONTROL TRANSFORMER
 - SLIP-IN HEATER
 - DISCONNECT
 - DUCT THERMOSTAT/SENSOR
 - FAN INTERLOCK
 - PILOT LIGHT
 - MAGNETIC CONTRACTOR
 - SOLID STATE RELAY
 - SCR HEAT

DOUGLAS STANTON ARCHITECT
608 E. 5th Street
El Dorado, AR 71730
310-629-9748
doug@dstantonarchitects.com



SOUTH ARKANSAS EXPO CENTER
DEL TIN HIGHWAY AR 335
EL DORADO, ARKANSAS 71730

DESIGN DEVELOPMENT

ISSUE	DATE
Issue for Bid	06/21/2024
△ Add. #1	07/12/2024



HVAC SCHEDULES

HSA Engineering
501 / 327 / 5757 office
1150 Bob Courtway Drive
Conway, Arkansas 72032
HSAConsultants.com

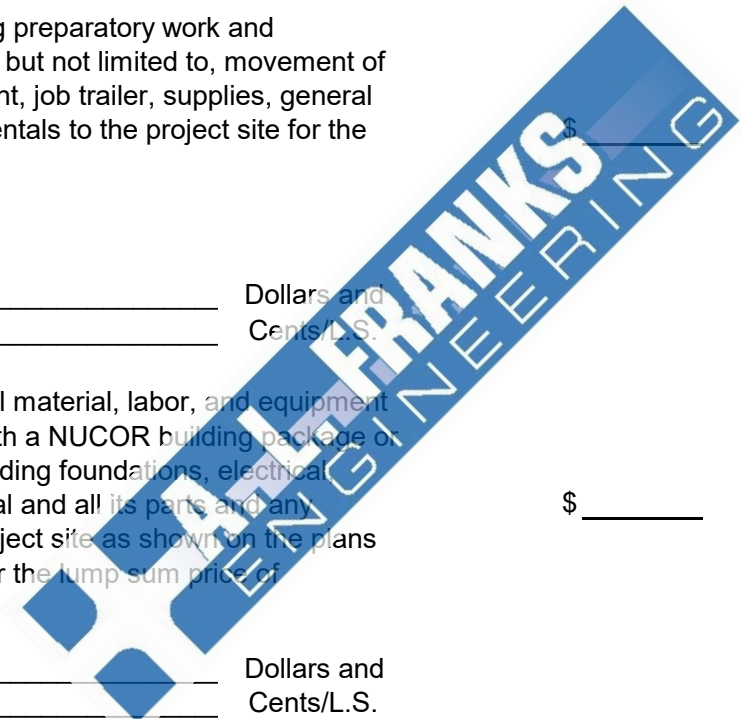
M5.1

CITY OF EL DORADO, ARKANSAS

Union County Expo Center

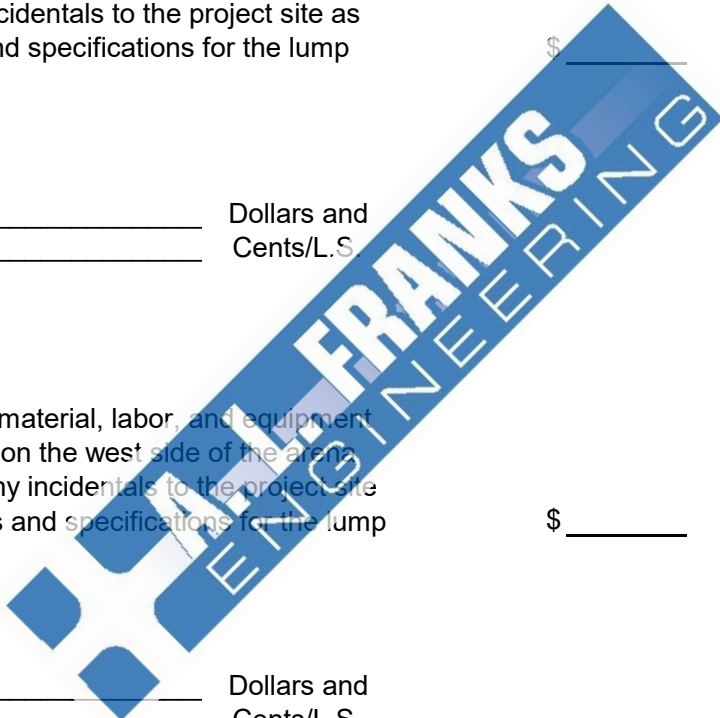
BID PROPOSAL

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1	L.S.	Mobilization including preparatory work and operations, including but not limited to, movement of personnel, equipment, job trailer, supplies, general conditions and incidentals to the project site for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
2	1	L.S.	Furnish and Install all material, labor, and equipment to erect the arena with a NUCOR building package of approved equal including foundations, electrical, plumbing, mechanical and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____



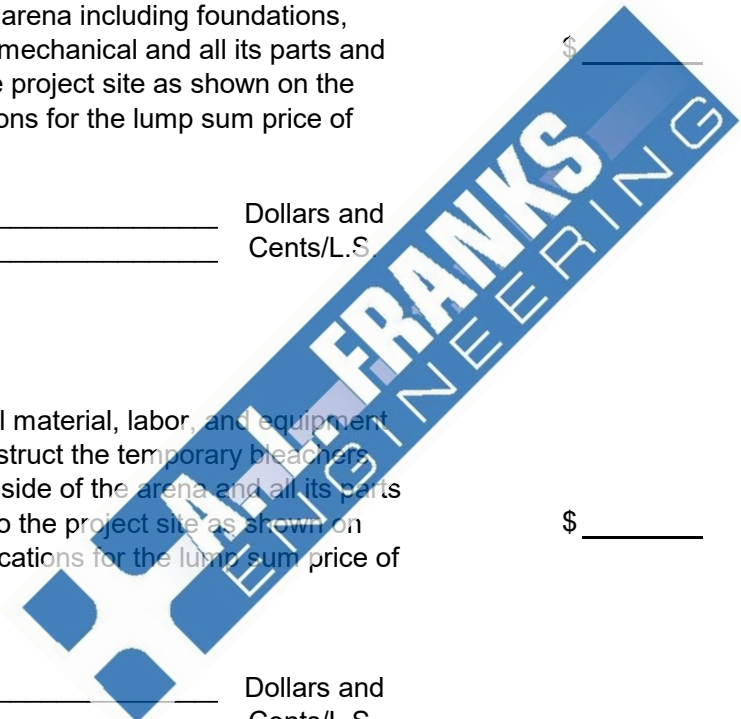
BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
3	1	L.S.	Furnish and Install all material, labor, and equipment to construct the arena west permanent bleachers and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		
4	1	L.S.	Furnish and Install all material, labor, and equipment to construct the gable on the west side of the arena and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



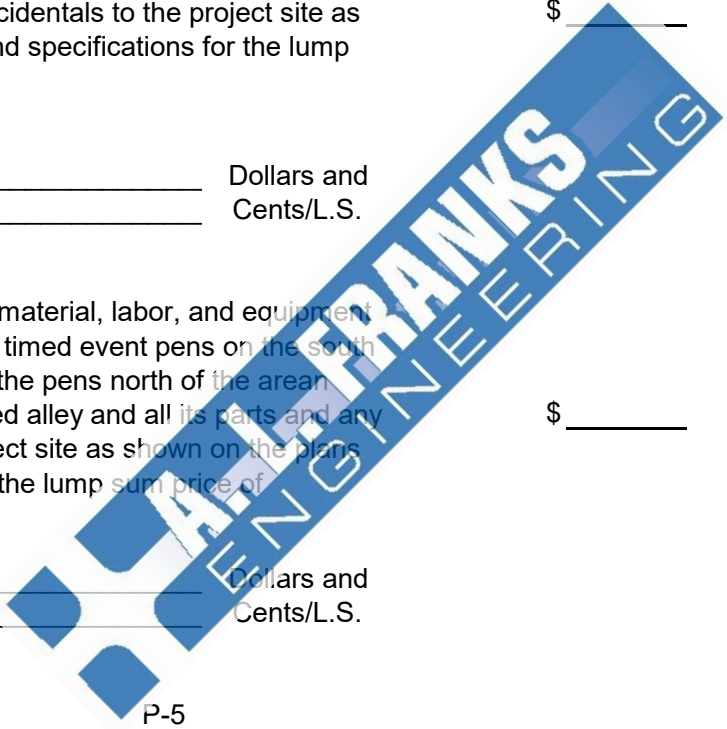
BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
5	1	L.S.	Furnish and Install all material, labor, and equipment to construct the additional 123'x20' structure along the south side of the arena including foundations, electrical, plumbing, mechanical and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
6	1	L.S.	Furnish and Install all material, labor, and equipment to purchase and construct the temporary bleachers and slab on the east side of the arena and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____



BID PROPOSAL CONTINUED

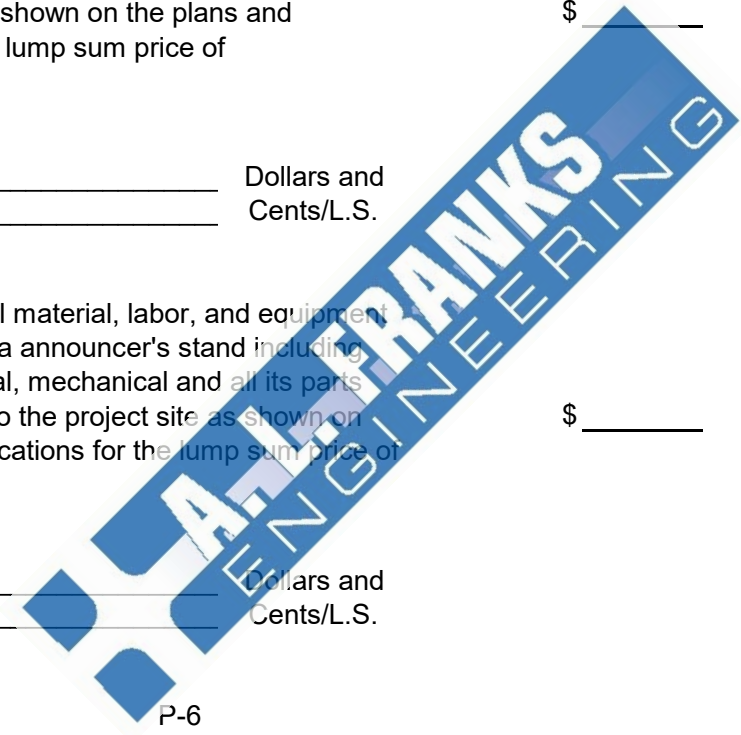
ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
7	1	L.S.	Furnish and Install all material, labor, and equipment to construct the arena stalls and chutes except for timed event pens west of the calf roping chutes and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
8	1	L.S.	Furnish and Install all material, labor, and equipment to construct the arena timed event pens on the south side of the arena and the pens north of the arena including the connected alley and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____



BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
9	1	L.S.	Furnish and Install all material, labor, and equipment to construct the pipe fencing and gates at perimeter of arena structure and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

10	1	L.S.	Furnish and Install all material, labor, and equipment to construct the arena announcer's stand including foundations, electrical, mechanical and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



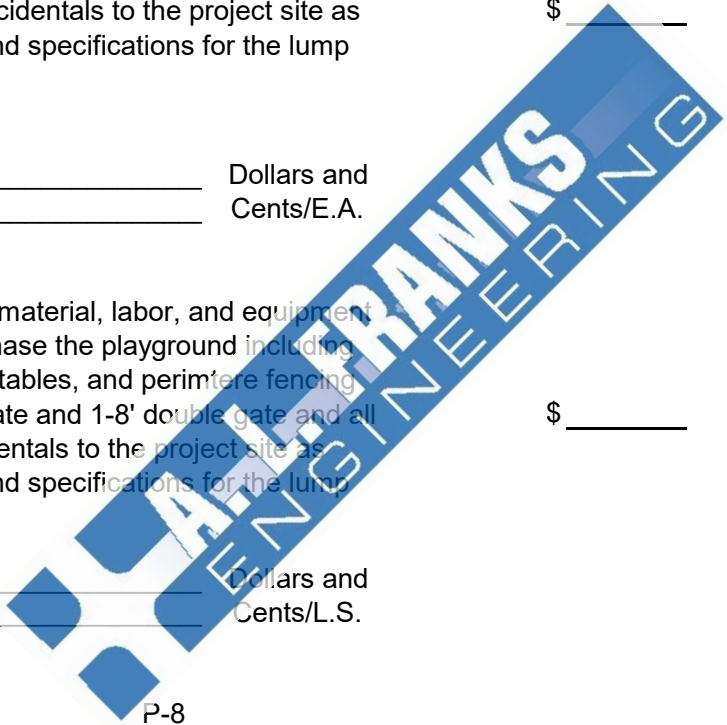
BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
11	1	L.S.	Furnish and Install all material, labor, and equipment to install and purchase the walk in refrigeration and and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

12	1	L.S.	Furnish and Install all material, labor, and equipment to construct the Reception Center building (8,450 S.F.) including the all rooms, equipment for concession stand, electrical, plumbing, mechanical, and appurantnaces and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

BID PROPOSAL CONTINUED

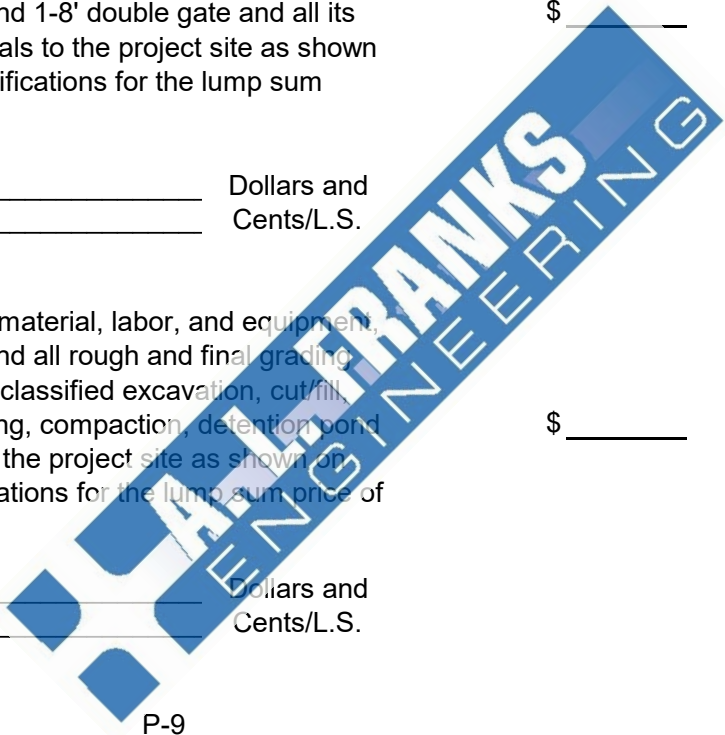
ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
13	43	E.A.	Furnish and Install all material, labor, and equipment to construct forty three(43) RV spots including water and electrical hook ups, median dividers, gravel and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/E.A.	\$ _____	\$ _____
14	1	L.S.	Furnish and Install all material, labor, and equipment to construct and purchase the playground including the equipment, picnic tables, and perimeter fencing with 1-4' pedestrian gate and 1-8' double gate and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____



BID PROPOSAL CONTINUED

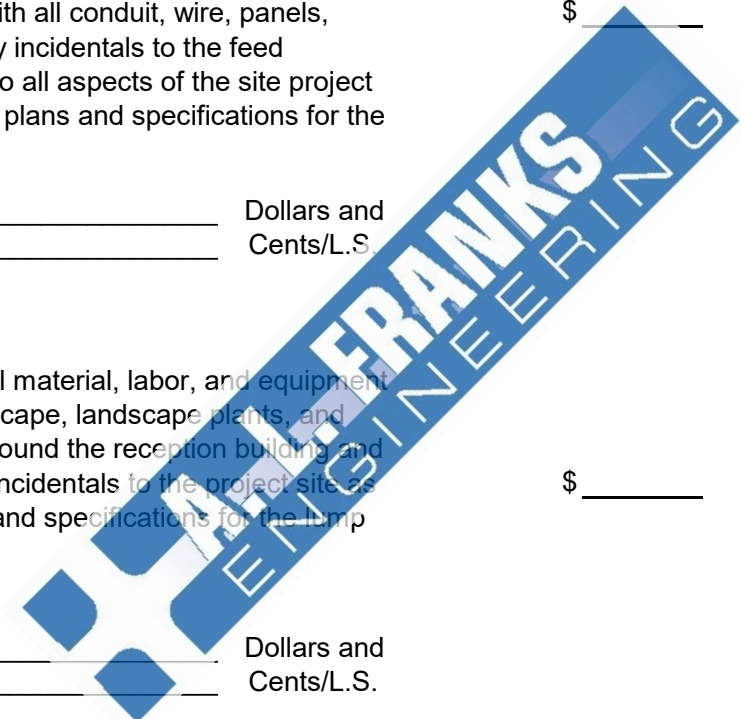
ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
15	1	L.S.	Furnish and Install all material, labor, and equipment to construct and purchase the dogpark including the equipment, picnic tables, and perimeter fencing with 1-4' pedestrian gate and 1-8' double gate and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

16	1	L.S.	Furnish and Install all material, labor, and equipment to perform site work and all rough and final grading as shown including unclassified excavation, cut/fill, removal off site, grading, compaction, detention pond and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



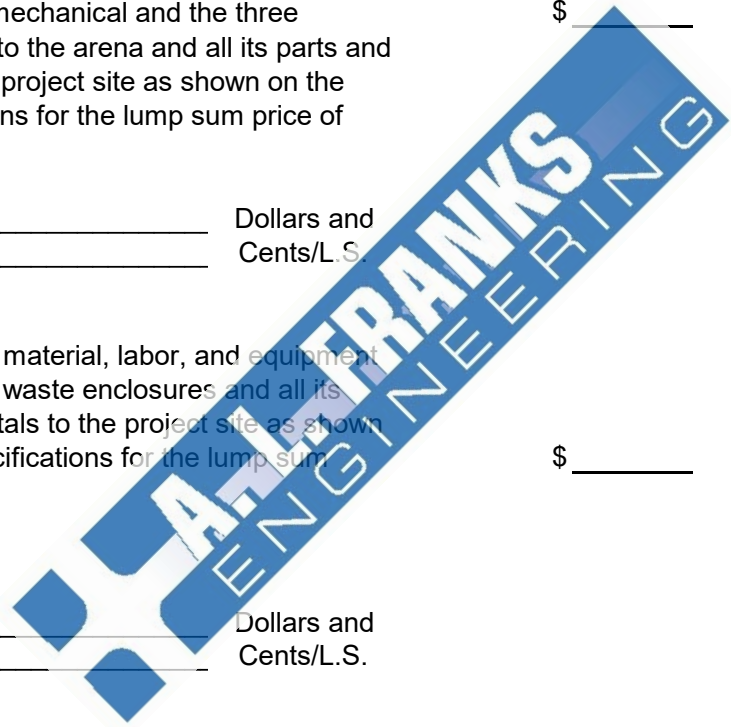
BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
17	1	L.S.	Furnish and Install all material, labor, equipment, and cost to provide electrical utility to the site including clearing/grubbing, removal, disposal, and utility coordination along with all conduit, wire, panels, transformers and any incidentals to the feed underground power to all aspects of the site project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		
18	1	L.S.	Furnish and Install all material, labor, and equipment to construct all hardscape, landscape plants, and landscape lighting around the reception building and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



BID PROPOSAL CONTINUED

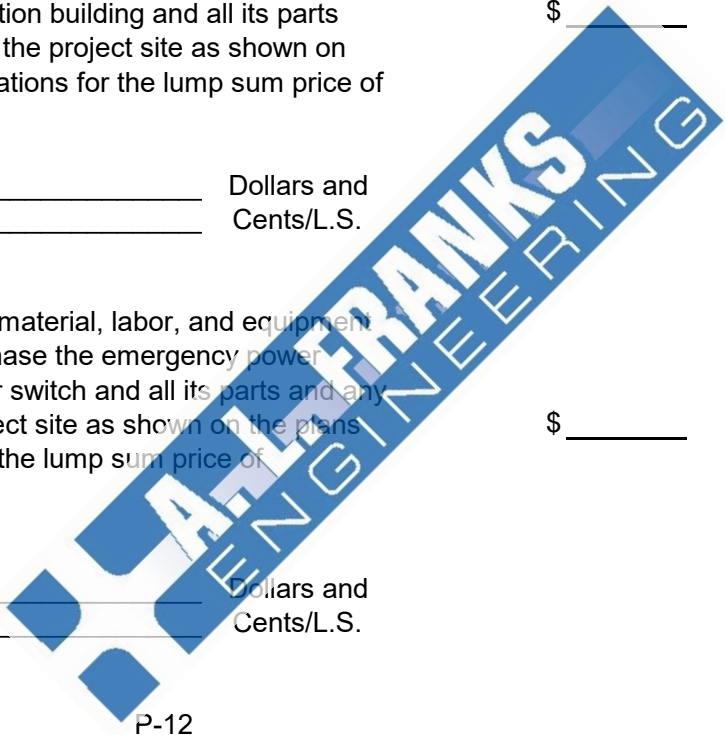
ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
19	1	L.S.	Furnish and Install all material, labor, and equipment to erect the stalls barn with a NUCOR building package or approved equal including foundations, electrical, plumbing, mechanical and the three covered connections to the arena and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
20	1	L.S.	Furnish and Install all material, labor, and equipment to construct the stalls waste enclosures and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____



BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
21	1	L.S.	Furnish and Install all material, labor, and equipment to construct all site lighting throughtout the whole site except the landscape lighting immediaely surrounding the reception building and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

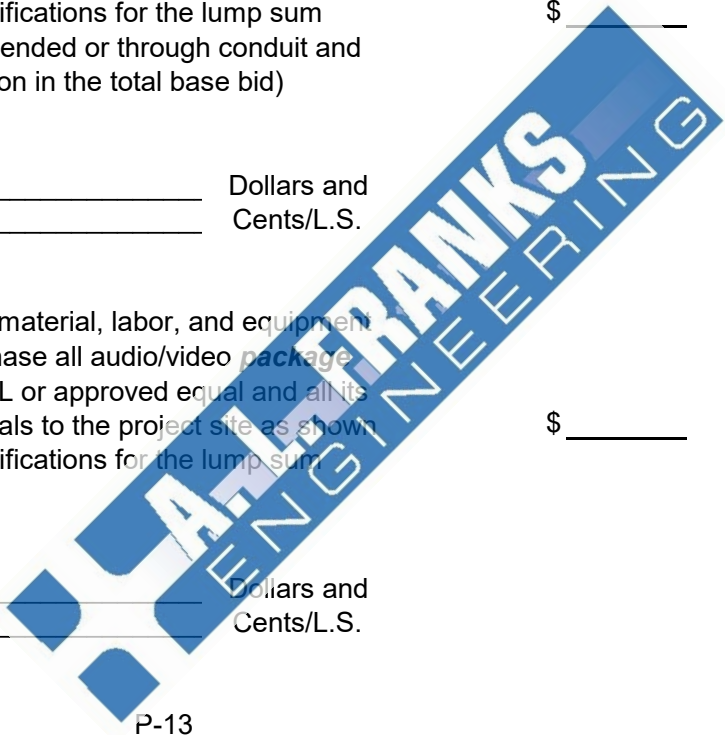
22	1	L.S.	Furnish and Install all material, labor, and equipment to construct and purchase the emergency power generator and transfer switch and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
23	1	L.S.	Furnish and Install all material, labor, and equipment to construct power outlets to the stalls barn and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of (price as suspended or through conduit and use the least cost option in the total base bid)	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

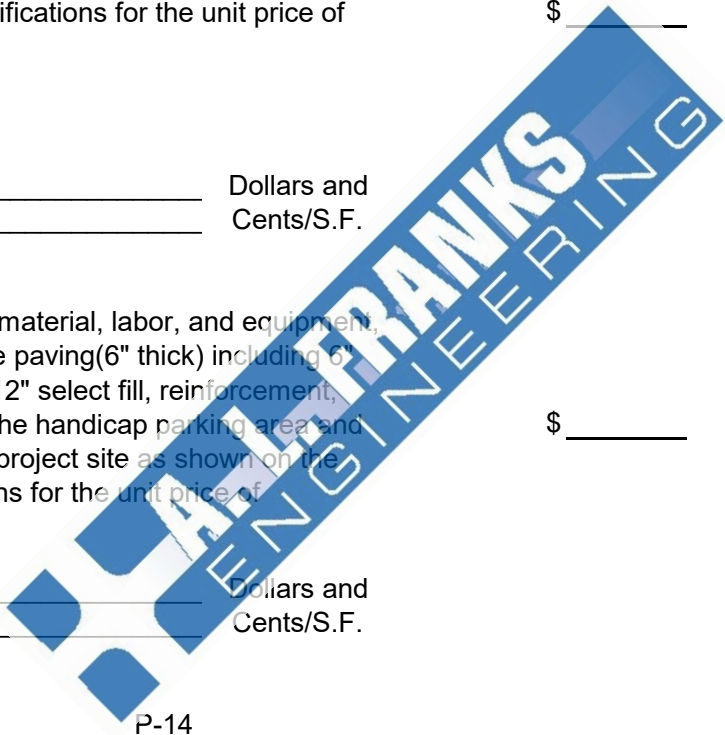
24	1	L.S.	Furnish and Install all material, labor, and equipment to construct and purchase all audio/video package #1 from American AVL or approved equal and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



BID PROPOSAL CONTINUED

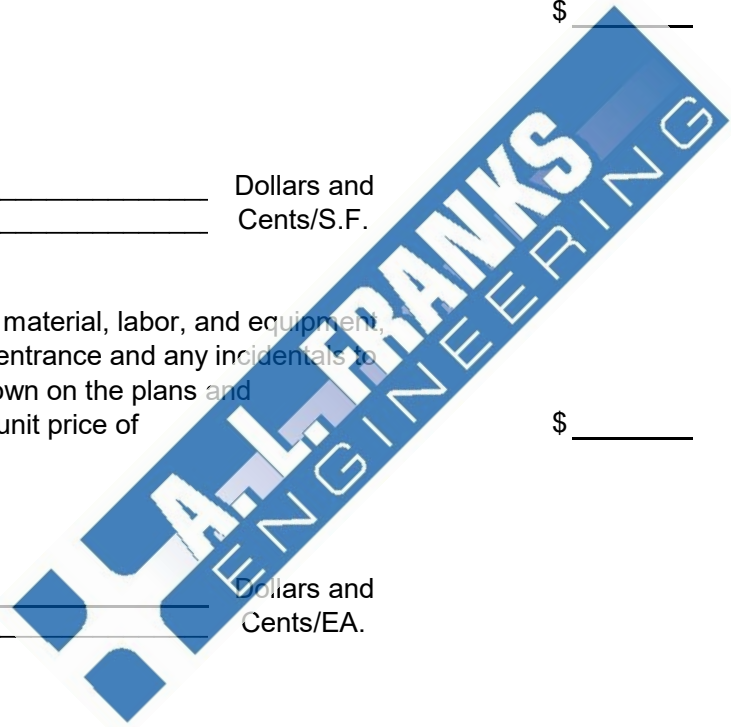
ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
25	384,600	S.F.	Furnish and Install all material, labor, and equipment, for placement of gravel paving through out the entire site and any incidentals to the project site as shown on the plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/S.F.		

26	2,800	S.F.	Furnish and Install all material, labor, and equipment, for reinforced concrete paving(6" thick) including 6" class 7 base course, 12" select fill, reinforcement, curing compound for the handicap parking area and any incidentals to the project site as shown on the plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/S.F.		



BID PROPOSAL CONTINUED

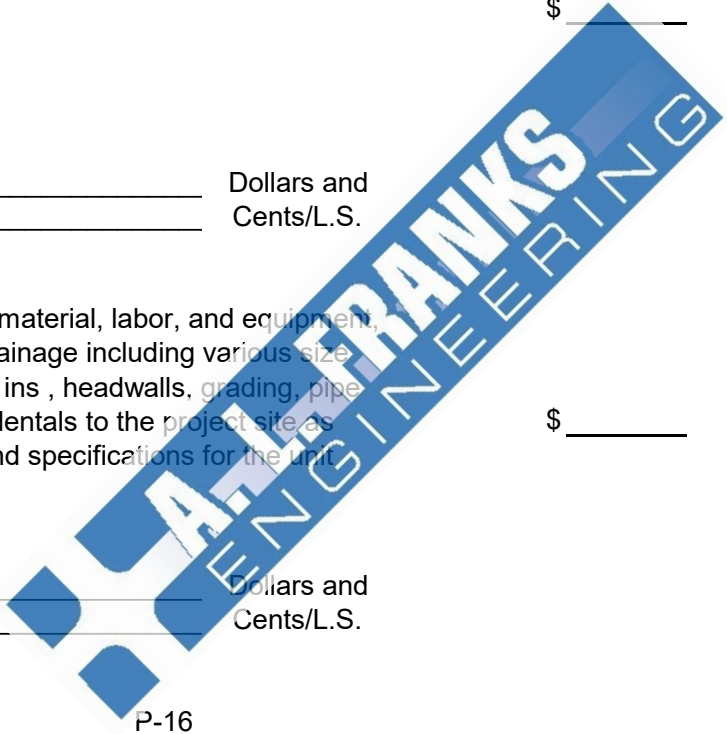
ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
27	4,710	S.F.	Concrete flatwork 4" thick including any grading, paving sand, reinforcement, Etc. per the plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/S.F.		
28	3	EA.	Furnish and Install all material, labor, and equipment, for ARDOT concrete entrance and any incidentals to the project site as shown on the plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA.		



BID PROPOSAL CONTINUED

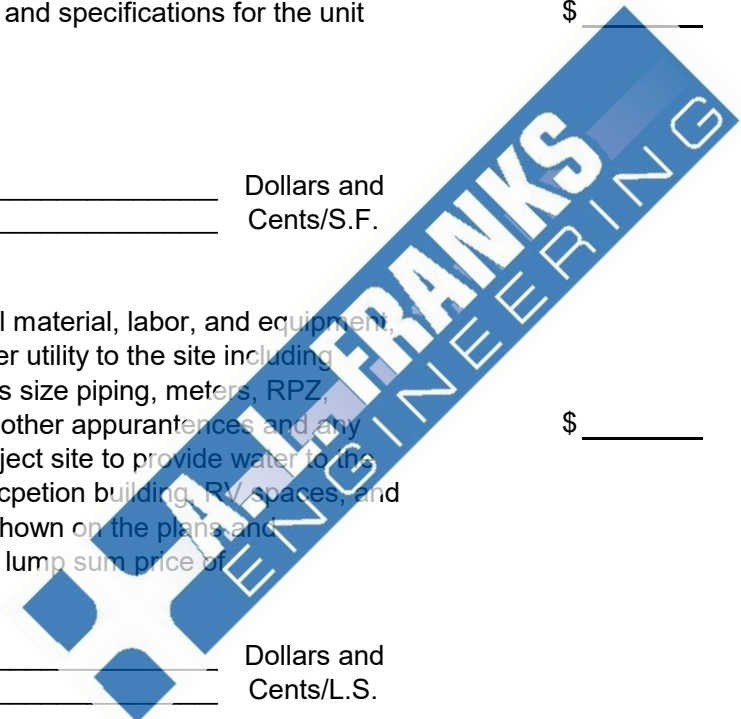
ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
29	1	L.S.	Provide and install pavement markings and striping for all asphalt and concrete paved areas per plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

30	1	L.S.	Furnish and Install all material, labor, and equipment, for placement of all drainage including various size piping, all inlets, all tie ins , headwalls, grading, pipe bedding, and any incidentals to the project site as shown on the plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



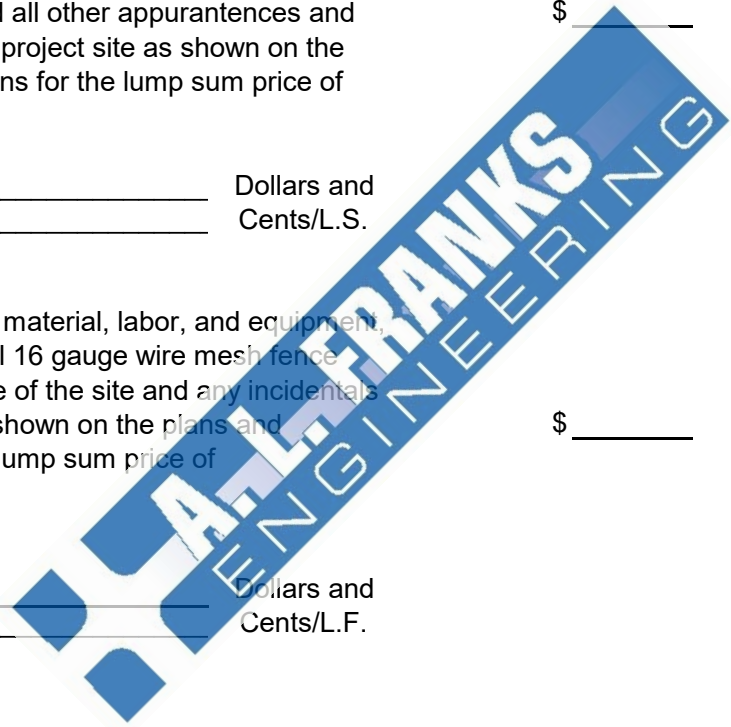
BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
31	5,000	S.F.	Furnish all equipment, material, and labor to install 12"-18" Rip Rap drainage (24" Min. Depth) 35 lb. min. on filter fabric including any grading or suitable backfill per the plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/S.F.		
32	1	L.S.	Furnish and Install all material, labor, and equipment, for placement of water utility to the site including highway bore, various size piping, meters, RPZ, valves, fitting and all other appurtenances and any incidentals to the project site to provide water to the arena, stalls barn, reception building, RV spaces, and dumping station as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		



BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
33	1	L.S.	Furnish and Install all material, labor, and equipment, for placement of gravity sewer main from the arena to the proposed lift station including 8" sewer main, manholes, fittings and all other appurantences and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
34	5100	L.F.	Furnish and Install all material, labor, and equipment, for placement of 4' tall 16 gauge wire mesh fence along the property line of the site and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____



BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
35	1	L.S.	Contractor shall perform erosion control measures as directed by the engineer and required by the SWPPP for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		
36	1	L.S.	Testing Allowance (by Third-Party Laboratory) as Required by the Engineer for soil and material testing per plans and specifications for the lump sum price of (Invoices shall be submitted to be paid)	\$ <u>10,000</u>	\$ <u>10,000</u>
			_____ Ten Thousand Dollars and _____ Zero Cents _____ Dollars and _____ Cents/L.S.		
TOTAL BASE BID OF ITEMS 1-36				\$ _____	

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
1	1	L.S.	DEDUCT BASE BID ITEM # 5 Furnish and Install all material, labor, and equipment to construct the additional 123'x20' structure along the south side of the arena including foundations, electrical, plumbing, mechanical and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
2	1	L.S.	DEDUCT BASE BID ITEM # 11 Furnish and Install all material, labor, and equipment to install and purchase the walk in refrigeration and and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
3	1	L.S.	DEDUCT BASE BID ITEM # 12 Furnish and Install all material, labor, and equipment to construct the Reception Center building(8,150 S.F.) including the all rooms, equipment for concession stand, electrical, plumbing, mechanical, and appuratanaces and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
4	1	L.S.	ADD BASE BID ITEM # 12 Furnish and Install all material, labor, and equipment to construct the Reception Center building (3,217 S.F. SHEET A-2.22) including the all rooms, equipment for concession stand, electrical, plumbing, mechanical, and appuratanaces and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
5	11	E.A.	DEDUCT BASE BID ITEM # 13, QTY 11 Furnish and Install all material, labor, and equipment to construct ELEVEN (11) RV spots (Sites 33-43) including water and electrical hook ups, median dividers, gravel and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/E.A.		
6	1	L.S.	DEDUCT BASE BID ITEM # 14 Furnish and Install all material, labor, and equipment to construct and purchase the playground including the equipment, picnic tables, and perimeter fencing with 1-4' pedestrian gate and 1-8' double gate and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.S.		

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
7	1	L.S.	DEDUCT BASE BID ITEM # 15 Furnish and Install all material, labor, and equipment to construct and purchase the dogpark including the equipment, picnic tables, and perimeter fencing with 1-4' pedestrian gate and 1-8' double gate and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
8	1	L.S.	DEDUCT BASE BID ITEM # 24 Furnish and Install all material, labor, and equipment to construct and purchase all audio/video package #1 from American AVL or approved equal and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
9	1	L.S.	ADD BASE BID ITEM # 24 Furnish and Install all material, labor, and equipment to construct and purchase all audio/video package #2 from American AVL or approved equal and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of	\$ _____	\$ _____
_____ Dollars and _____ _____ Cents/L.S.					
TOTAL DEDUCTIVE ALTERNATE #1 ITEMS				\$ _____	
TOTAL BASE LESS DEDUCTIVE ALTERNATE #1 ITEMS				\$ _____	

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #2

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
1	1	L.S.	DEDUCT BASE BID ITEM # 6 Furnish and Install all material, labor, and equipment to purchase and construct the temporary bleachers and slab on the east side of the arena and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
2	18	E.A.	DEDUCT BASE BID ITEM # 13, QTY 18- Furnish and Install all material, labor, and equipment to construct EIGHTEEN (18) RV spots (sites 16-32) including water and electrical hook ups, median dividers, gravel and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/E.A.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

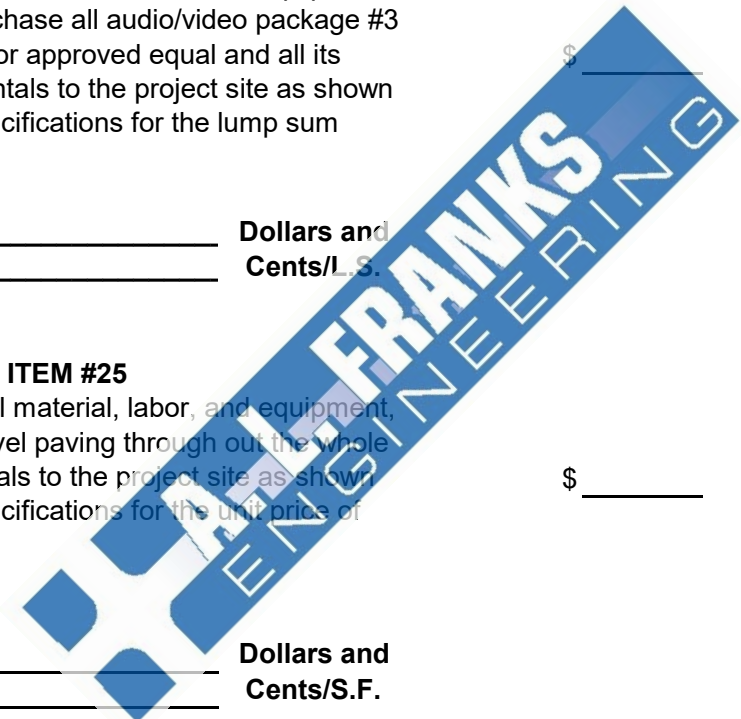
DEDUCTIVE ALTERNATE #2

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
3	1	L.S.	DEDUCT BASE BID ITEM # 22 Furnish and Install all material, labor, and equipment to construct and purchase the emergency power generator and transfer switch and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
4	1	L.S.	DEDUCT ALTERNATE DEDUCT LINE ITEM #9 FROM DEDUCT ALTERNATE #1 OPTION Furnish and Install all material, labor, and equipment to construct and purchase all audio/video package #2 from American AVL or approved equal and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #2

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
5	1	L.S.	ADD BASE BID ITEM # 24 Furnish and Install all material, labor, and equipment to construct and purchase all audio/video package #3 from American AVL or approved equal and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
6	??	S.F.	DEDUCT BASE BID ITEM #25 Furnish and Install all material, labor, and equipment, for placement of gravel paving through out the whole site and any incidentals to the project site as shown on the plans and specifications for the unit price of _____ Dollars and _____ Cents/S.F.	\$ _____	\$ _____
TOTAL DEDUCTIVE ALTERNATE #2 ITEMS				\$ _____	
TOTAL BASE LESS DEDUCTIVE ALTERNATE #1 & #2 ITEMS				\$ _____	



BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #3

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
1	14	E.A.	DEDUCT BASE BID ITEM # 13, QTY 14 Furnish and Install all material, labor, and equipment to construct fourteen (14) RV spots (sites 1-14) including water and electrical hook ups, median dividers, gravel and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/E.A.	\$ _____	\$ _____
2	1	L.S.	DEDUCT BASE BID ITEM #19 Furnish and Install all material, labor, and equipment to erect the stalls barn with a NUCOR building package or approved equal including foundations, electrical, plumbing, mechanical and the three covered connections to the arena and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #3

ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
3	1	L.S.	DEDUCT BASE BID ITEM # 20 Furnish and Install all material, labor, and equipment to construct the stalls waste enclosures and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
4	1	L.S.	DEDUCT BASE BID ITEM #21 Furnish and Install all material, labor, and equipment to construct all site lighting throughout the whole site except the landscape lighting immediately surrounding the reception building and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #3

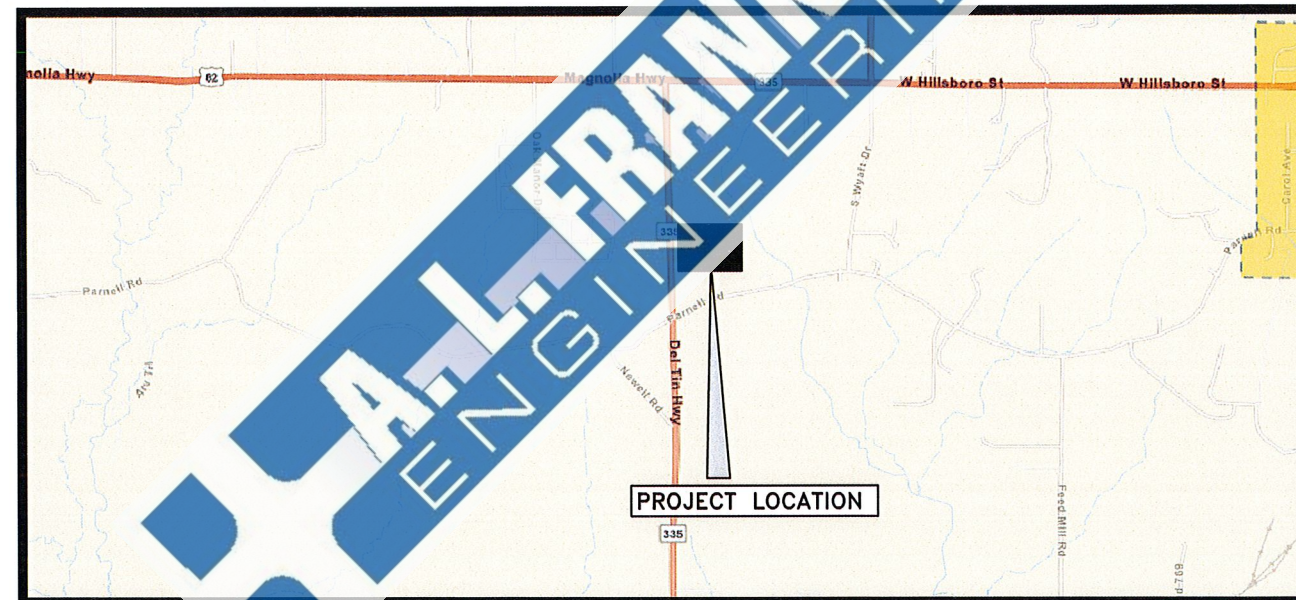
ITEM	QTY	UNIT	DESCRIPTION	UNIT	TOTAL
5	1	L.S.	DEDUCT BASE BID ITEM # 23 Furnish and Install all material, labor, and equipment to construct power outlets to the stalls barn and all its parts and any incidentals to the project site as shown on the plans and specifications for the lump sum price of (price as suspended or through conduit and use the least cost option in the total base bid)	\$ _____	\$ _____
TOTAL DEDUCTIVE ALTERNATE #3 ITEMS				\$ _____	
TOTAL BASE LESS DEDUCTIVE ALTERNATE #1, #2 & #3 ITEMS				\$ _____	

- NOTES:**
1. Submission of the completed Bid Proposal is considered evidence to the Owner that the Contractor fully and clearly understands the complete scope of work and all actions and materials required to complete the work.
 2. Items required but not specifically called out in the Bid Proposal shall be included in other items.
 3. Time required to complete the base bid work shall be 360 calender days.

SOUTH ARKANSAS EXPO CENTER DEL TIN HIGHWAY AR 335 EL DORADO, ARKANSAS

INDEX TO SHEETS

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ENLARGED SITE PLAN	C2.1-C2.10
PAVING PLAN	C3.0
EROSION CONTROL PLAN	C4.0
EROSION CONTROL DETAILS	C4.1
OVERALL GRADING & DRAINAGE PLAN	C5.0
ENLARGED GRADING & DRAINAGE PLAN	C5.1-C5.10
GRADING, PAVING, & DRAINAGE DETAILS	C6.0-C6.3
OFFSITE UTILITIES	C7.0
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WATER DETAILS	C14.0-C14.1
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ARDOT DETAILS - STANDARD SECTION FOR BOX CULVERTS	
ARDOT DETAILS - DRIVEWAY & STREET TURNOUT DR-2	
ARDOT DETAILS - TEMPORARY EROSION CONTROL DEVICES TEC-1	
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ARENA FOUNDATION PLAN - SOUTHEAST AREA	S1.2
ARENA FOUNDATION PLAN - NORTHWEST AREA	S1.3
ARENA FOUNDATION PLAN - SOUTHWEST AREA	S1.4
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RECEPTION/HORSE STALLS BARN FOUNDATION PLAN	S4.0
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HORSE STALL RESTROOM ROOF PLAN	S9.0
HORSE STALL RESTROOM ROOF ELEVATIONS	S9.1

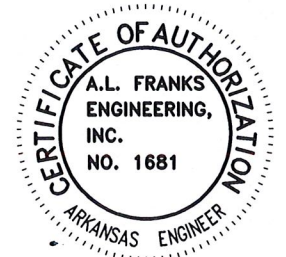


BEFORE CONSTRUCTION BEGINS
GIVE 48 HOURS NOTICE
FOR UNDERGROUND UTILITY LOCATIONS
CALL: THE ARKANSAS ONE-CALL SYSTEM 1-800-482-8998

SUBMITTED BY:



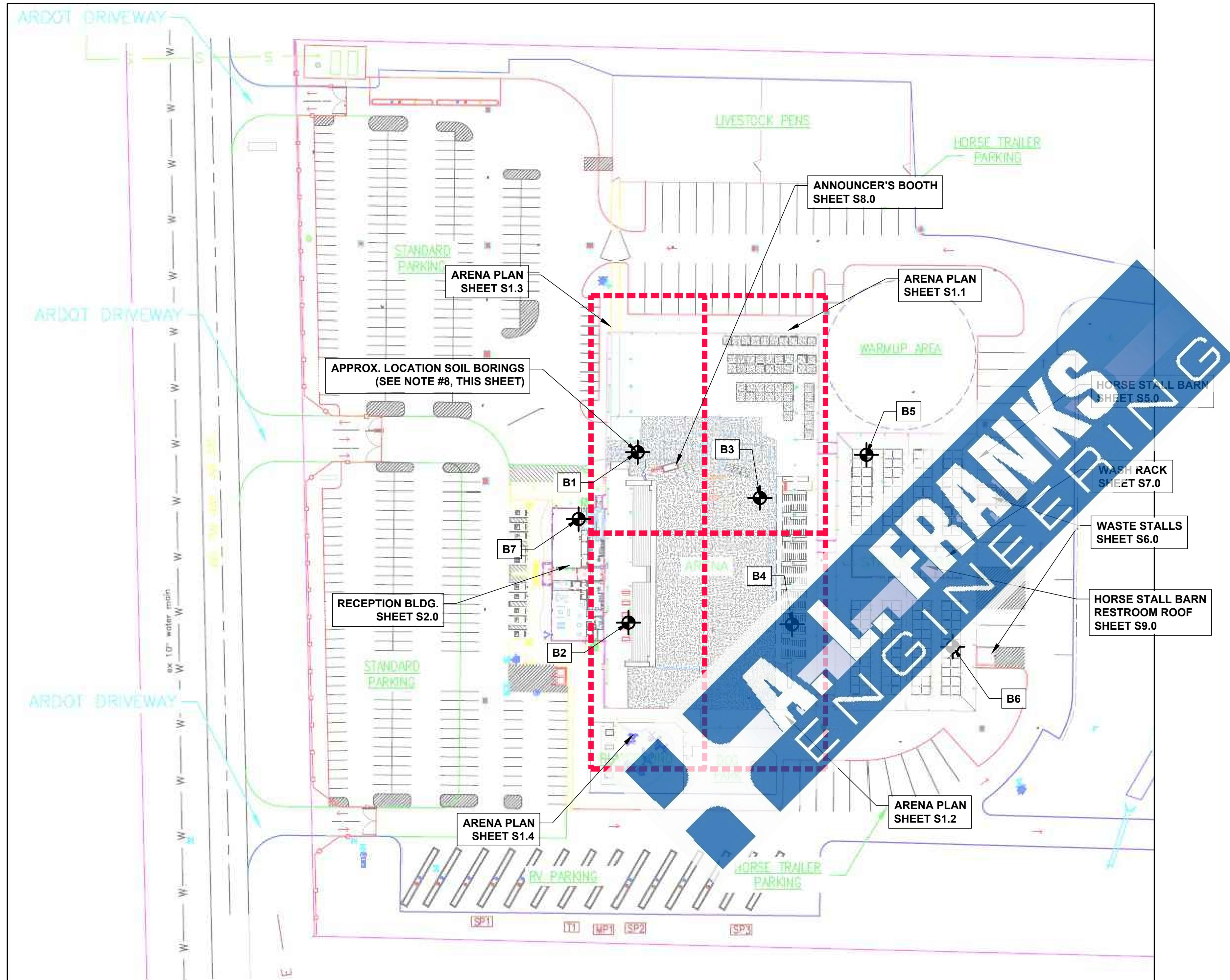
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Texarkana, Arkansas 71854
Phone (870) 216-1906
Fax (870) 216-1907



CLIENT
CITY OF EL DORADO
PAUL CHOATE - MAYOR

Cody J. Stringer 07/15/2024
CODY J. STRINGER, P.E. PROJECT ENGINEER DATE

Anthony L. Franks 07/15/2024
ANTHONY L. FRANKS, P.E. PROJECT MANAGER DATE



GENERAL NOTES

1. CONTRACTOR MUST HAVE ALL UTILITY OWNERS FIELD-LOCATE THEIR EQUIPMENT AND FACILITIES PRIOR TO CONSTRUCTION. THE OWNER AND THE ENGINEER ASSUME NO LIABILITY FOR DISCREPANCIES BETWEEN UTILITY LINES SHOWN ON THE PLANS AND THEIR ACTUAL LOCATION.
2. THE CONTRACTOR SHALL PERSONALLY INSPECT THE PREMISES TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE AND THE KIND AND AMOUNT OF MATERIALS TO BE REMOVED. THE CONTRACTOR WILL ACCEPT THE PREMISES AS FOUND.
3. CONTRACTOR SHALL THOROUGHLY REVIEW ALL PLANS AND SPECIFICATIONS, SHALL PREPARE DETAILED MATERIAL QUANTITIES AND COSTS ACCORDINGLY BEFORE SUBMITTING HIS BID. ANY WORK, CONSTRUCTION MATERIALS, FITTINGS, AND APPURTENANCES REQUIRED BY THE PLANS AND SPECIFICATIONS AND NOT OTHERWISE IDENTIFIED AS A PAY ITEM OR A MATERIAL TAKE-OFF ITEM, SHALL BE DEEMED INCIDENTAL TO CONSTRUCTION AND SHALL BE PERFORMED, SUPPLIED AND INSTALLED AT NO ADDITIONAL PAY.
4. THE CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO PROTECT THE EXISTING GROUNDS, PARKING AREA, STREETS, SIDEWALKS, CURBS, ETC. FROM DAMAGE.
5. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.
6. CONTRACTOR MUST USE BEST MANAGEMENT PRACTICES TO CONTAIN STORM WATER RUNOFF FROM THE CONSTRUCTION SITE. EROSION CONTROL PROTECTION BARRIERS (SILT FENCES, HAY BALES, CHECK DAMS, SILTING BASINS, OR A COMBINATION THEREOF) MUST COMPLY WITH EPA AND STATE OF ARKANSAS STORM WATER REGULATIONS AND MUST BE INSTALLED PRIOR TO REMOVAL OF VEGETATION AND EXCAVATION.
7. TEMPORARY SAFETY FENCING SHALL BE ERECTED AS NEEDED AT NO DIRECT PAY. PERIMETER FENCING SHALL BE MAINTAINED TO THE GREATEST EXTENT PRACTICABLE TO MAINTAIN SECURITY OF THE AREA AT NO DIRECT PAY.
8. CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION PREPARED BY DAVE RAMBARAN, P.E. DATED APRIL 11, 2024, INCLUDING ADDENDUM (SEE CONTRACT DOCUMENTS).
9. REFER TO DETAIL SHEET S2.0 FOR REINFORCED CONCRETE REQUIREMENTS.

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
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S1.0	ARENA FOUNDATION PLAN
S1.1	ARENA FOUNDATION PLAN - NORTHEAST AREA
S1.2	ARENA FOUNDATION PLAN - SOUTHEAST AREA
S1.3	ARENA FOUNDATION PLAN - NORTHWEST AREA
S1.4	ARENA FOUNDATION PLAN - SOUTHWEST AREA
S2.0	RECEPTION BUILDING FOUNDATION PLAN
S3.0	ARENA FOUNDATION DETAILS
S4.0	RECEPTION / HORSE STALL FOUNDATION DETAILS
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S5.0	HORSE STALL BARN FOUNDATION PLAN
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S7.0	WASH RACK PLAN AND DETAILS
S8.0	ANNOUNCER'S BOOTH PLAN AND DETAILS
S8.1	ANNOUNCER'S BOOTH ELEVATIONS AND DETAILS
S8.2	ANNOUNCER'S BOOTH FOUNDATION PLAN AND DETAILS
S8.3	ANNOUNCER'S BOOTH STRUCTURAL DETAILS
S9.0	HORSE STALL RESTROOM ROOF PLAN
S9.1	HORSE STALL RESTROOM ROOF ELEVATIONS

INDEX TO STRUCTURAL SHEETS
N.T.S.

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ENGINEERING OF
ARKANSAS, LLC
Arkansas Certificate of
Authorization No. 2165
900 Market St., Suite 201
Shreveport, LA 71101
(318) 828-1126

Date	Revision	By

Designed _____
Checked _____
Drawn _____
Approved _____

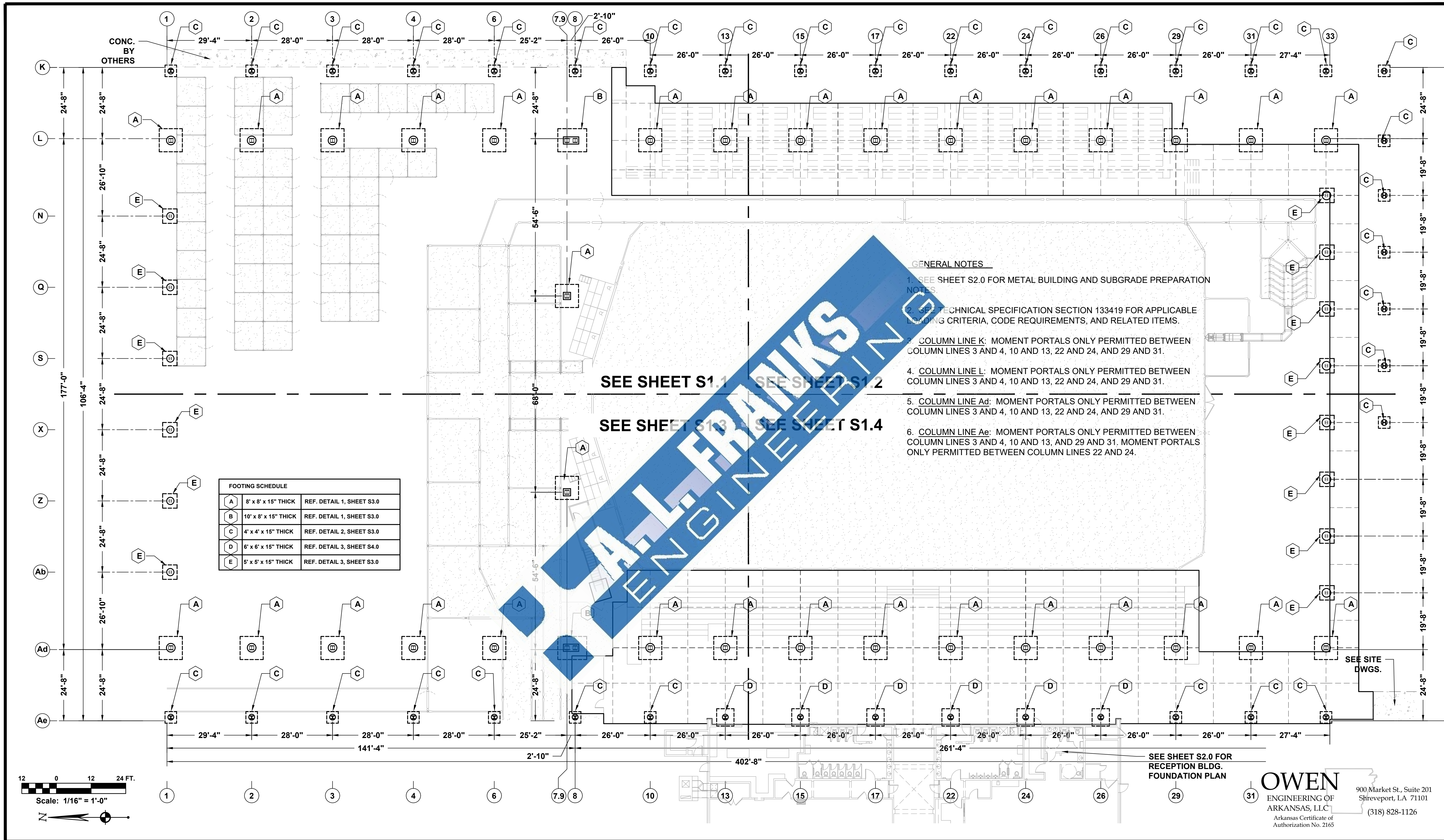
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ENGINEERING
118 E. Broad St.
Texarkana, Arkansas 71854
Phone (870) 216-1906
Fax (870) 216-1907

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DEL TIN HIGHWAY AR. 335
EL DORADO, ARKANSAS 71730

**GENERAL NOTES AND
INDEX TO SHEETS**



Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S0.1**



Date	Revision	By

Designed _____
 Checked _____
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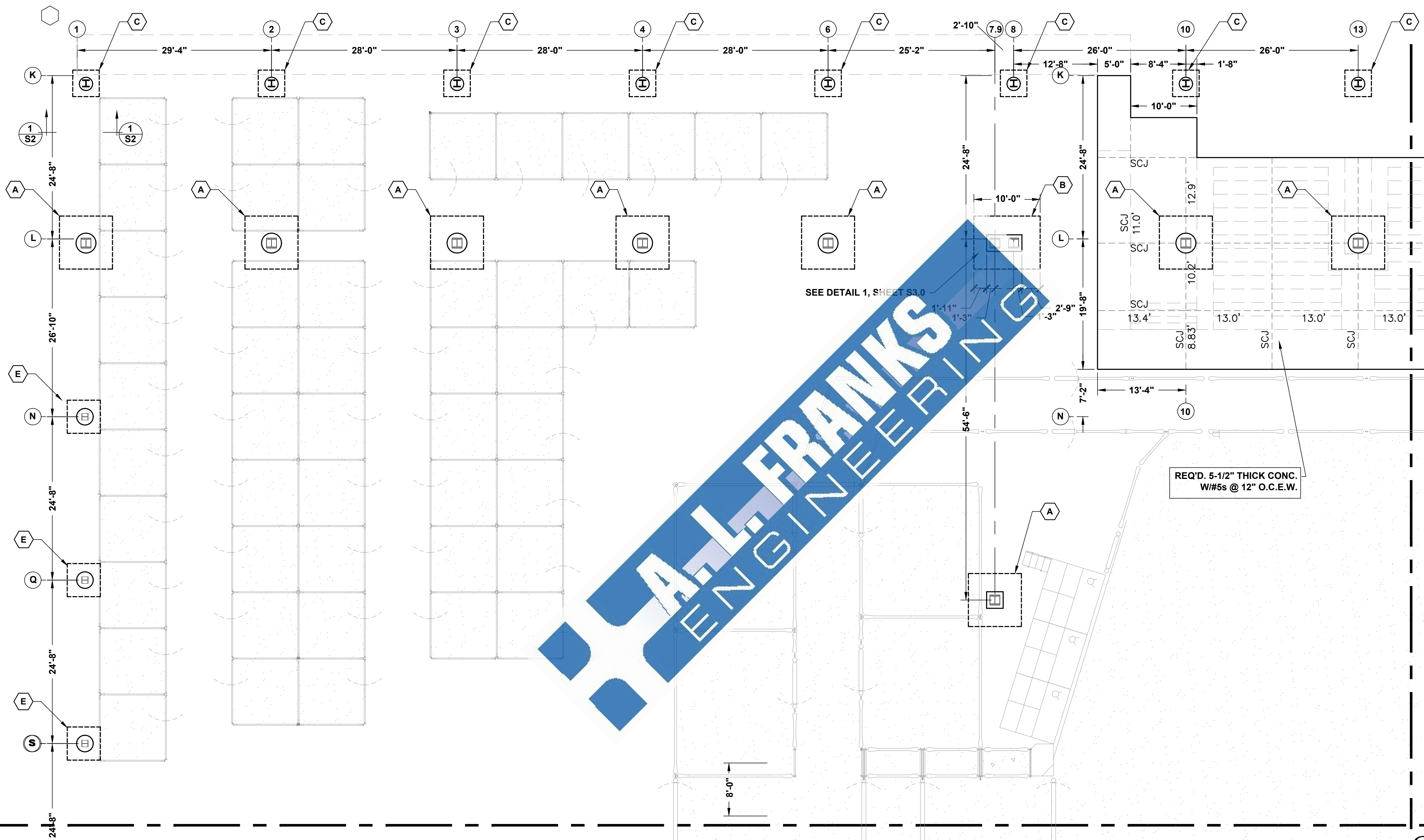
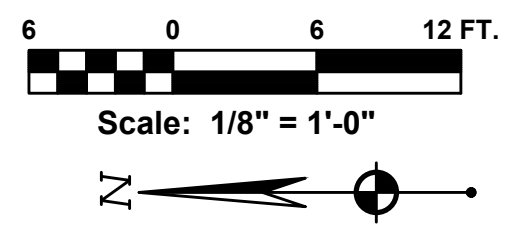
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ARENA FOUNDATION PLAN

OWEN ENGINEERING OF ARKANSAS, LLC
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Job No.: OE 2023-20
 Scale:
 Date: JULY 12, 2024
 Sheet **S1.0**



GENERAL NOTES
 1. SEE SHEET S1.0 FOR FOOTING SCHEDULE.


SEE SHEET S1.2

SEE SHEET S1.3

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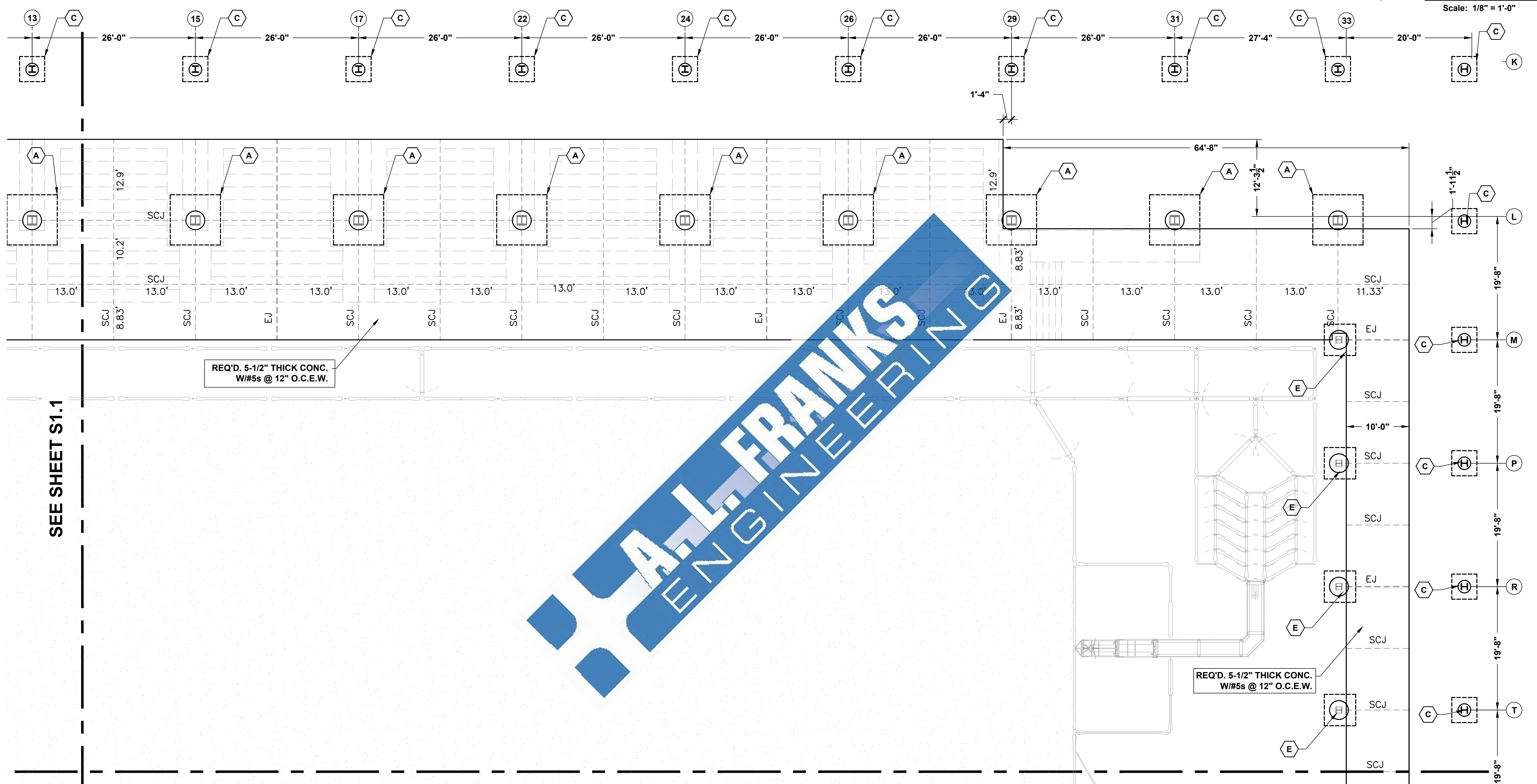
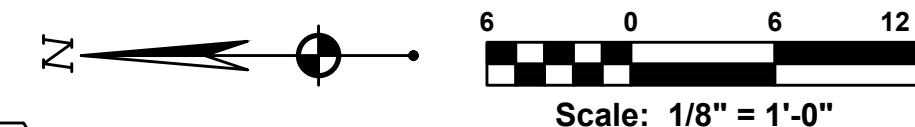
ARENA FOUNDATION PLAN
 NORTHEAST AREA



Job No.: OE 2023-20
 Scale: _____
 Date: JULY 12, 2024
 Sheet **S1.1**

GENERAL NOTES

1. SEE SHEET S1.0 FOR FOOTING SCHEDULE.



REQ'D. 5-1/2" THICK CONC.
W/#5s @ 12" O.C.E.W.

REQ'D. 5-1/2" THICK CONC.
W/#5s @ 12" O.C.E.W.

SEE SHEET S1.1

SEE SHEET S1.4

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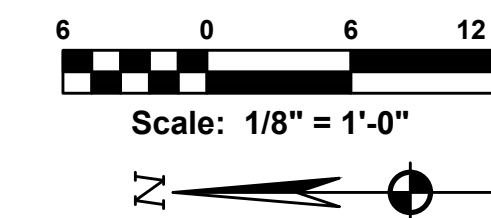
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ARENA FOUNDATION PLAN
SOUTHEAST AREA



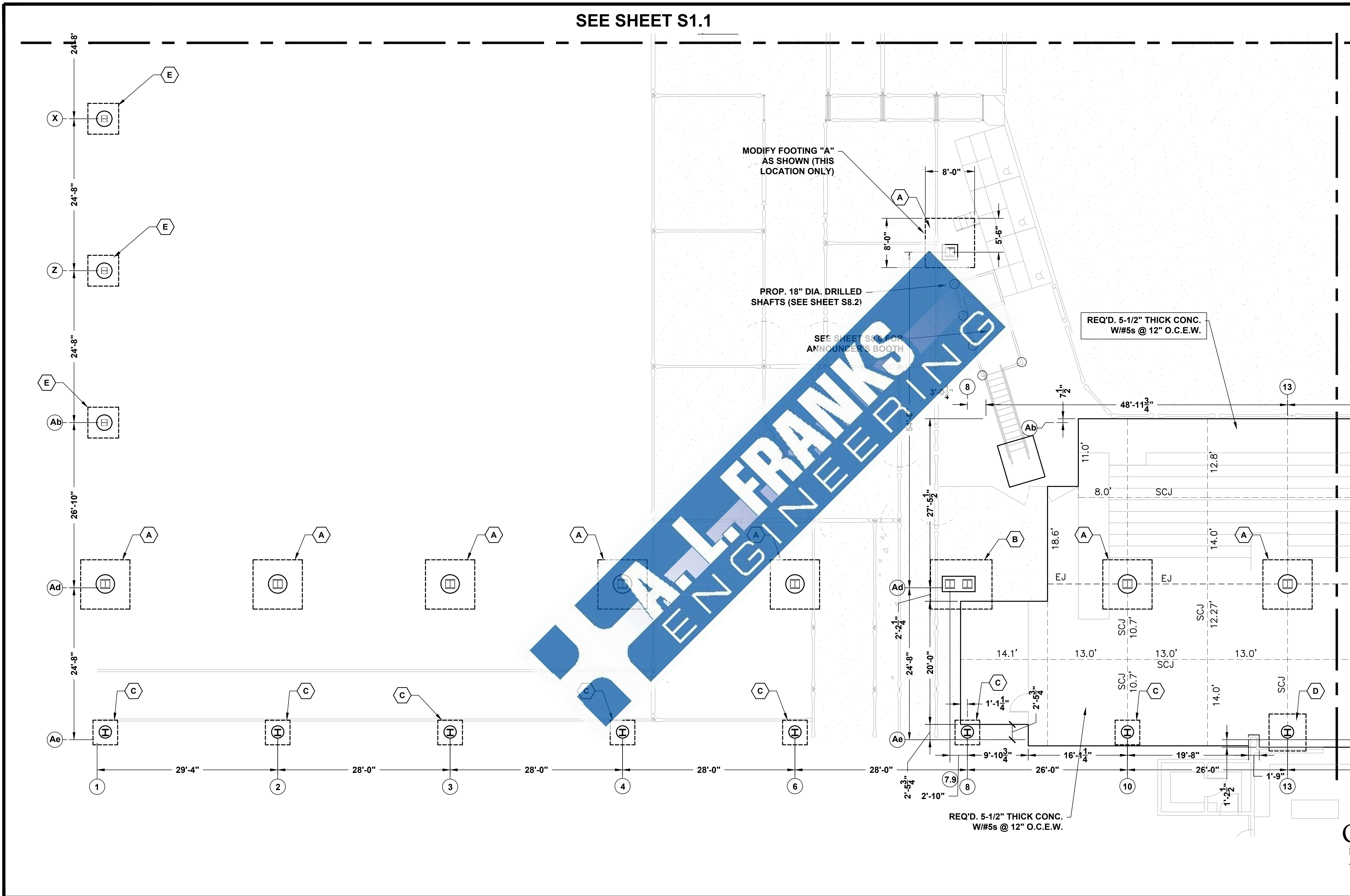
Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S1.2**

SEE SHEET S1.1



GENERAL NOTES
1. SEE SHEET S1.0 FOR FOOTING SCHEDULE.

SEE SHEET S1.4



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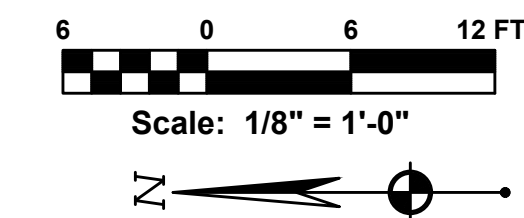
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EL DORADO, ARKANSAS 71730

ARENA FOUNDATION PLAN
NORTHWEST AREA



Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S1.3**

GENERAL NOTES
 1. SEE SHEET S1.0 FOR FOOTING SCHEDULE.

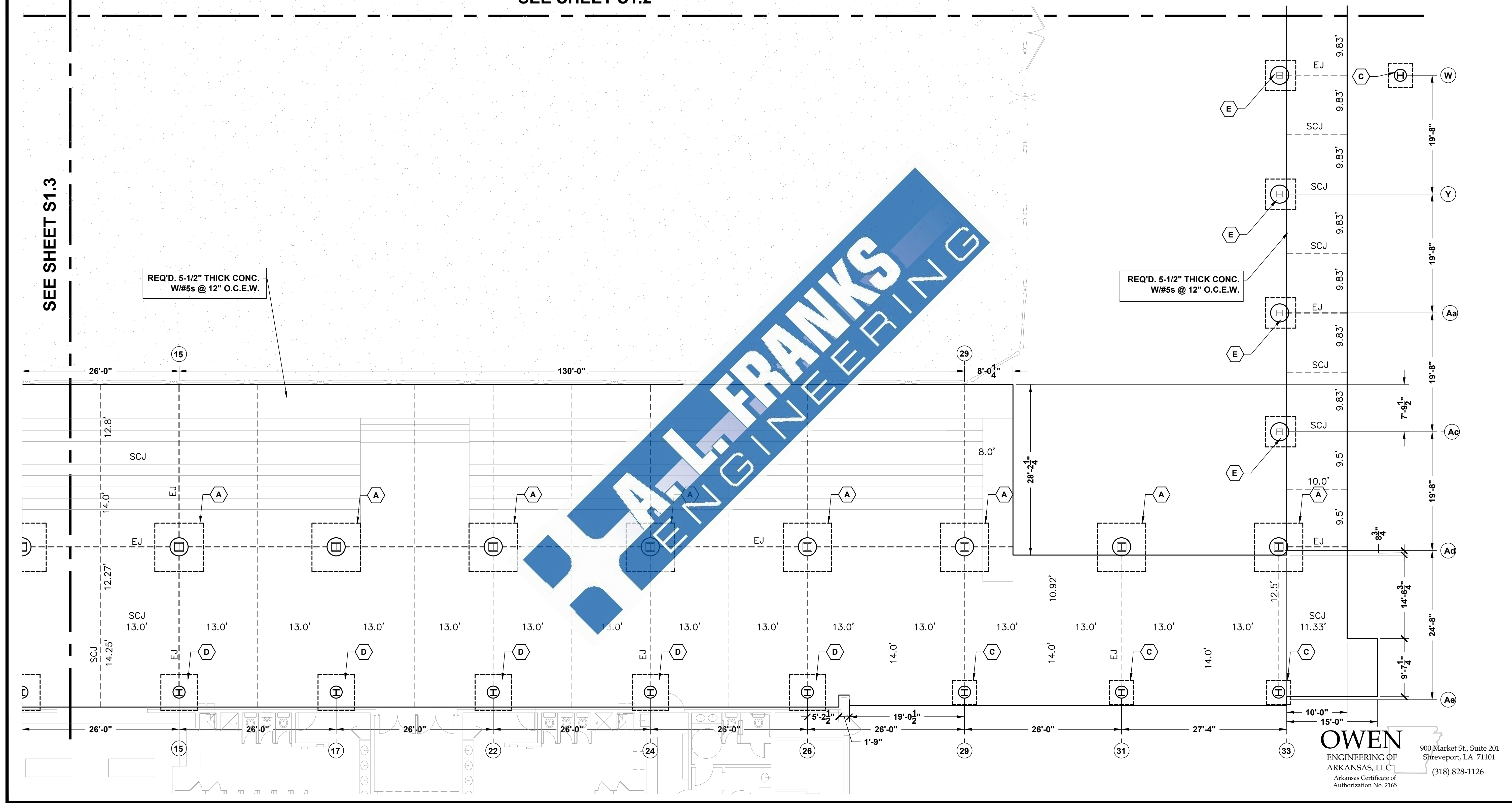
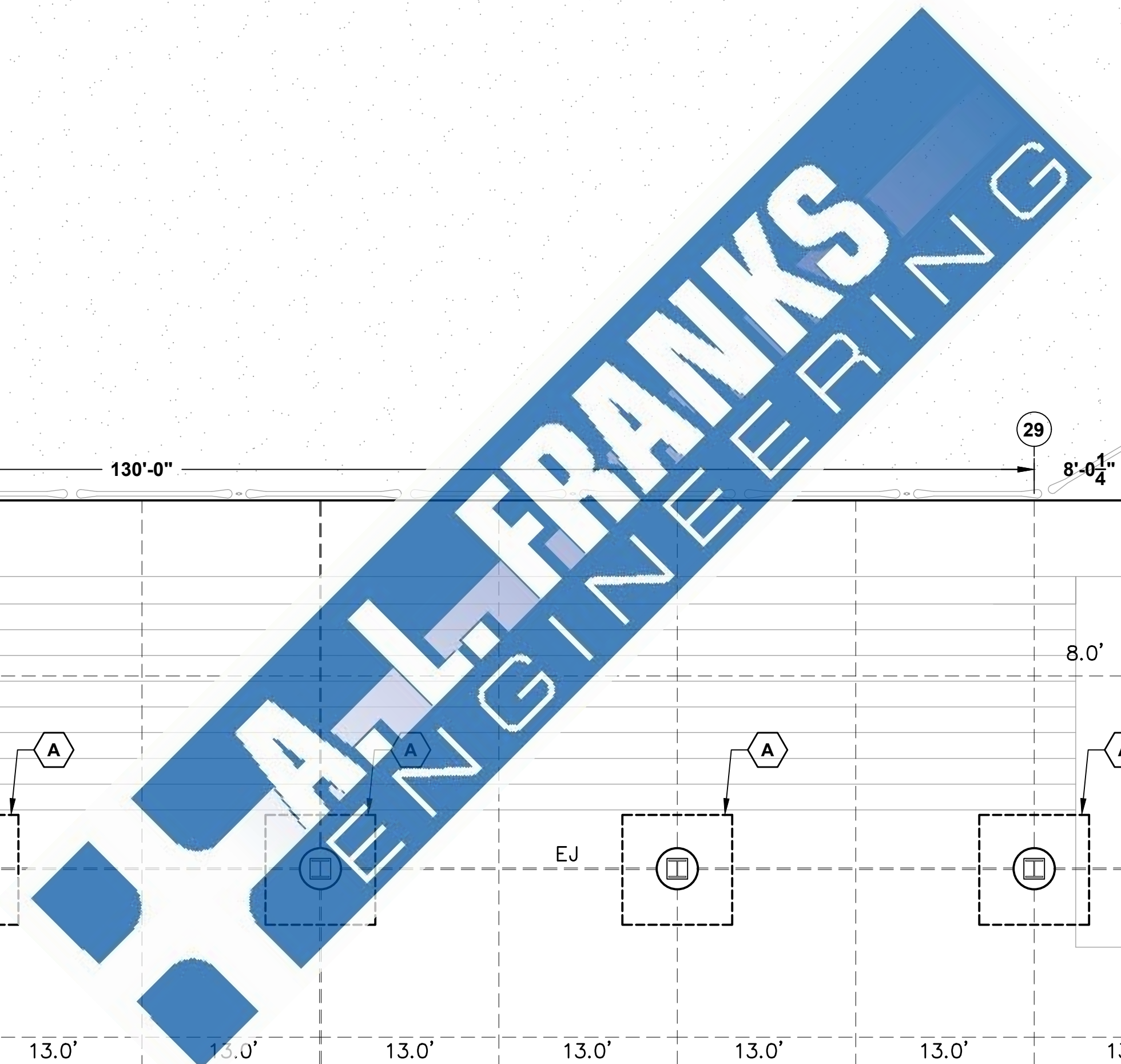


SEE SHEET S1.2

SEE SHEET S1.3

REQ'D. 5-1/2" THICK CONC.
 W/#5s @ 12" O.C.E.W.

REQ'D. 5-1/2" THICK CONC.
 W/#5s @ 12" O.C.E.W.



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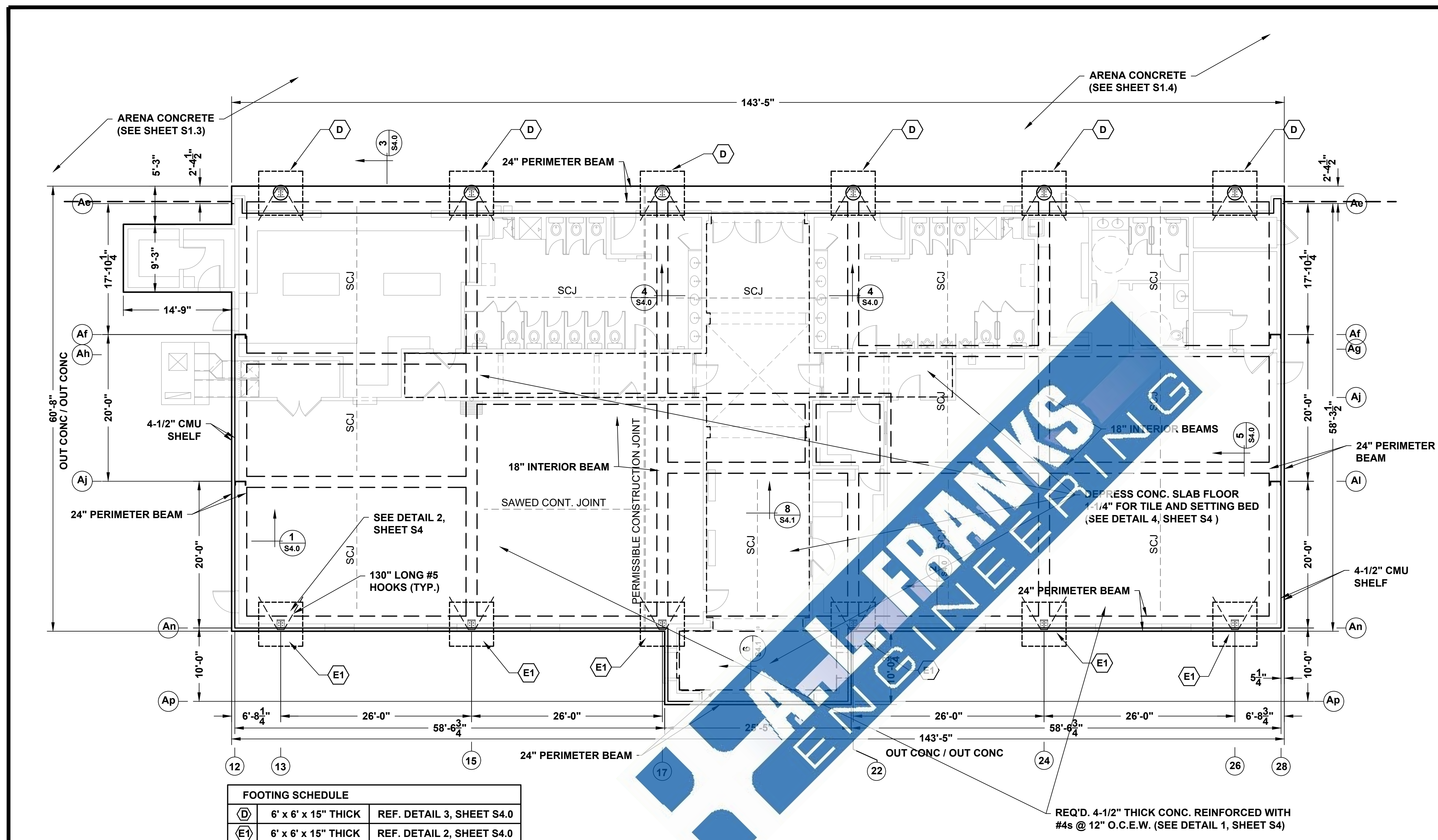
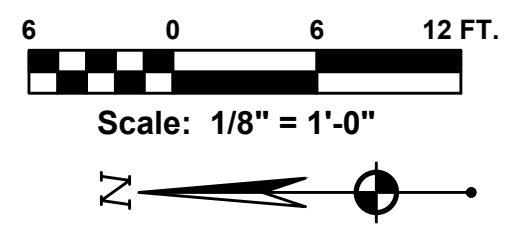
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ARENA FOUNDATION PLAN
 SOUTHWEST AREA

Job No.: OE 2023-20
 Scale:
 Date: JULY 12, 2024
 Sheet **S1.4**



FOOTING SCHEDULE		
D	6' x 6' x 15\"	REF. DETAIL 3, SHEET S4.0
E1	6' x 6' x 15\"	REF. DETAIL 2, SHEET S4.0

METAL BUILDING AND SUBGRADE PREPARATION NOTES:
 (APPLICABLE TO ENTIRE PROJECT, INCLUDING ARENA, HORSE STALLS, RECEPTION BLDG. AND ALL OTHERS THIS PROJECT):

- METAL BUILDING MANUFACTURER SHALL DESIGN SUPERSTRUCTURE WITH PINNED BASE CONNECTIONS TO FOUNDATION. MANUFACTURER SHALL INCLUDE ANCHOR BOLT DESIGN AND DETAILS, INCLUDING EMBEDMENT DEPTH, WITH SUPERSTRUCTURE PACKAGE.
- CONTRACTOR SHALL FURNISH AND INSTALL 10 MIL VAPOR RETARDER UNDER ALL PORTIONS OF SLAB ON GRADE. VAPOR RETARDER SHEETS SHALL BE INSTALLED OVER LEVEL COMPACTED 4\"
- PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT BY DRGEOES, LLC DATED APRIL 11, 2024 (SEE SPECIFICATIONS). THE FOLLOWING IS A GENERAL SUMMARY OF SUBGRADE REQUIREMENTS. CONTRACTOR IS TO FOLLOW ALL REQUIREMENTS CONTAINED WITHIN THE GEOTECHNICAL REPORT.
 - STRIP AND REMOVE ALL ORGANIC MATERIAL, LOOSE MATERIAL, AND DELETERIOUS MATTER AS REQUIRED TO A DEPTH OF 12\"
 - PROVIDE DRAINAGE OF THE EXPOSED SUBGRADE BY SLOPING GRADES AND DITCHING.
 - SCARIFY 12\"
 - PROOFROLL SUBGRADE WITH LOADED SHEEPSFOOT ROLLER OR A 10 KIP SMOOTH DRUM ROLLER. REMOVE SOFT SOILS, DRY, AND RECOMPACT, OR REPLACE WITH COMPACTED IMPORTED FILL.
 - FILL TO FINAL PLAN GRADE WITH 8\"
- CONTRACTOR SHALL COORDINATE METAL BLDG. FRAME COLUMNS FROM METAL BUILDING SHOP DRAWINGS WITH FOUNDATION PLAN AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONCRETE THICKNESSES ARE SUBJECT TO CHANGE WITH REQUIREMENTS FROM METAL BUILDING SHOP DRAWINGS.
- MINIMUM DISTANCE BETWEEN ANCHOR BOLTS AND EDGES OF CONCRETE SHALL BE 4\".
- METAL BUILDING MUST BE DESIGNED TO ASCE/SEI 7-10 LOADING:

RISK CATEGORY: 3
 IMPORTANCE FACTORS: SNOW = 1.10, WIND = 1.00, SEISMIC = 1.25
 BASIC WIND SPEED 120 MPH, 3-SECOND GUST
 EXPOSURE CATEGORY: D
- MOMENT PORTAL ONLY IS PERMITTED BETWEEN COLUMN LINES 22 AND 24. X-BRACING NOT PERMITTED.

CAST-IN-PLACE CONCRETE REQUIREMENTS (APPLICABLE TO ALL CONCRETE, INCLUDING ARENA, HORSE STALLS, RECEPTION BLDG. AND ALL OTHERS THIS PROJECT):

- CONCRETE SHALL BE PORTLAND CEMENT CONCRETE, ARDOT TYPE S(AE), 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH AIR ENTRAINMENT.
- CAST-IN-PLACE CONCRETE SHALL STRICTLY ADHERE TO THE PROPORTIONS ESTABLISHED IN THE MIX, CONSISTING OF THE ACTUAL MATERIALS TO BE USED DURING CONSTRUCTION. DESIGN MIX SHALL BE PREPARED AND SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO USE. MIX DESIGN PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 211 / 301 / 318.
- REINFORCED CONCRETE SHALL CONFORM TO ACI 318, LATEST EDITION.
- REINFORCING BARS SHALL BE ASTM A615 GRADE 60, EXCEPT TIES AND STIRRUPS MAY BE GRADE 40. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND SHALL BE SUPPLIED IN FLAT SHEETS. LAP FABRIC TWO MESHES AS SPLICED.
- REQUIRED CONCRETE COVER FOR REINFORCING BARS:
 DEPOSITED AGAINST EARTH: 3\"
 EXPOSED TO WEATHER OR EARTH AFTER FORMS REMOVED: 1-1/2\"
- AS SOON AS FORMS ARE REMOVED, UNDESIRABLE FINS AND OTHER PROJECTIONS SHALL BE REMOVED, OFFSETS LEVELED, AND VOID OR DAMAGED PLACES IMMEDIATELY SATURATED WITH WATER AND PREPARED WITH MORTAR OF THE SAME COMPOSITION AS USED IN THE MIX. EXPOSED SURFACES SHALL BE RUBBED WITH CARBORUNDUM STONE TO A SMOOTH FINISH FREE FROM MARKS OR HONEYCOMBS IMMEDIATELY AFTER FORMS ARE REMOVED.
- TESTING LABORATORY SERVICES FOR QUALITY CONTROL OF CAST-IN-PLACE CONCRETE SHALL BE PROVIDED BY THE OWNER. TESTING SERVICES SHALL INCLUDE PREPARATION AND TESTING OF CONCRETE COMPRESSION CYLINDERS, SLUMP TESTS, AND ANY OTHER TESTS DESIRED BY THE OWNER.
- CONCRETE SHALL BE PLACED CONTINUOUSLY, WITHOUT INTERRUPTION, IN SUCH A MANNER AS TO NOT CAUSE SEGREGATION, VIBRATING EACH LIFT. USE CHUTES OR TREMIES FOR PLACING CONCRETE WHERE A DROP OF MORE THAN FIVE FEET IS REQUIRED, OR PUMP CONCRETE INTO PLACE.
- DOWELS MUST BE SUPPORTED WITH BASKETS TO PREVENT SLIPPING AND/OR DISPLACEMENT.
- CONTRACTOR MUST SUPPORT STEEL REINFORCING WITH BRICK SUPPORTS (PREFERRED), CHAIRS, OR OTHER SUITABLE MATERIALS.
- CONTRACTOR SHALL APPLY A SPRAY-ON OR ROLL-ON CURING COMPOUND IMMEDIATELY AFTER PLACEMENT TO PROTECT CONCRETE FROM SURFACE CRACKING.
- COLD JOINTS FORMED DURING THE COURSE OF THE WORK MUST BE REMOVED AND REPLACED AT NO DIRECT PAY.

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 Authorization No. 2165

900 Market St., Suite 201
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Designed _____
 Checked _____
 Drawn _____
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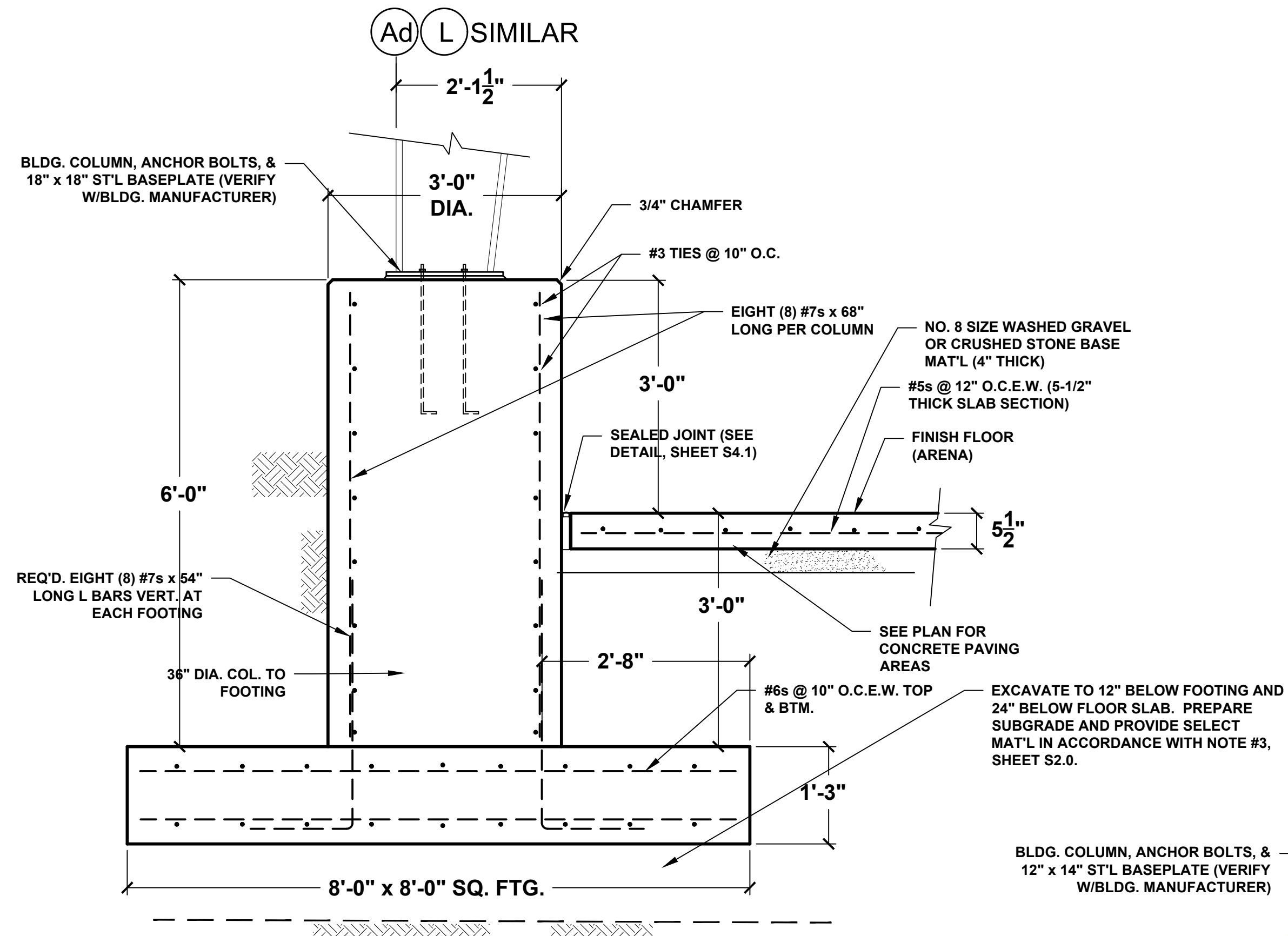
A. L. FRANKS
 ENGINEERING

118 E. Broad St.
 Texarkana, Arkansas 71854
 Phone (870) 216-1906
 Fax (870) 216-1907

SOUTH ARKANSAS EXPO CENTER
 DEL TIN HIGHWAY AR. 335
 EL DORADO, ARKANSAS 71730

RECEPTION BUILDING
 FOUNDATION PLAN

Job No.: OE 2023-20
 Scale: _____
 Date: JULY 12, 2024
 Sheet **S2.0**



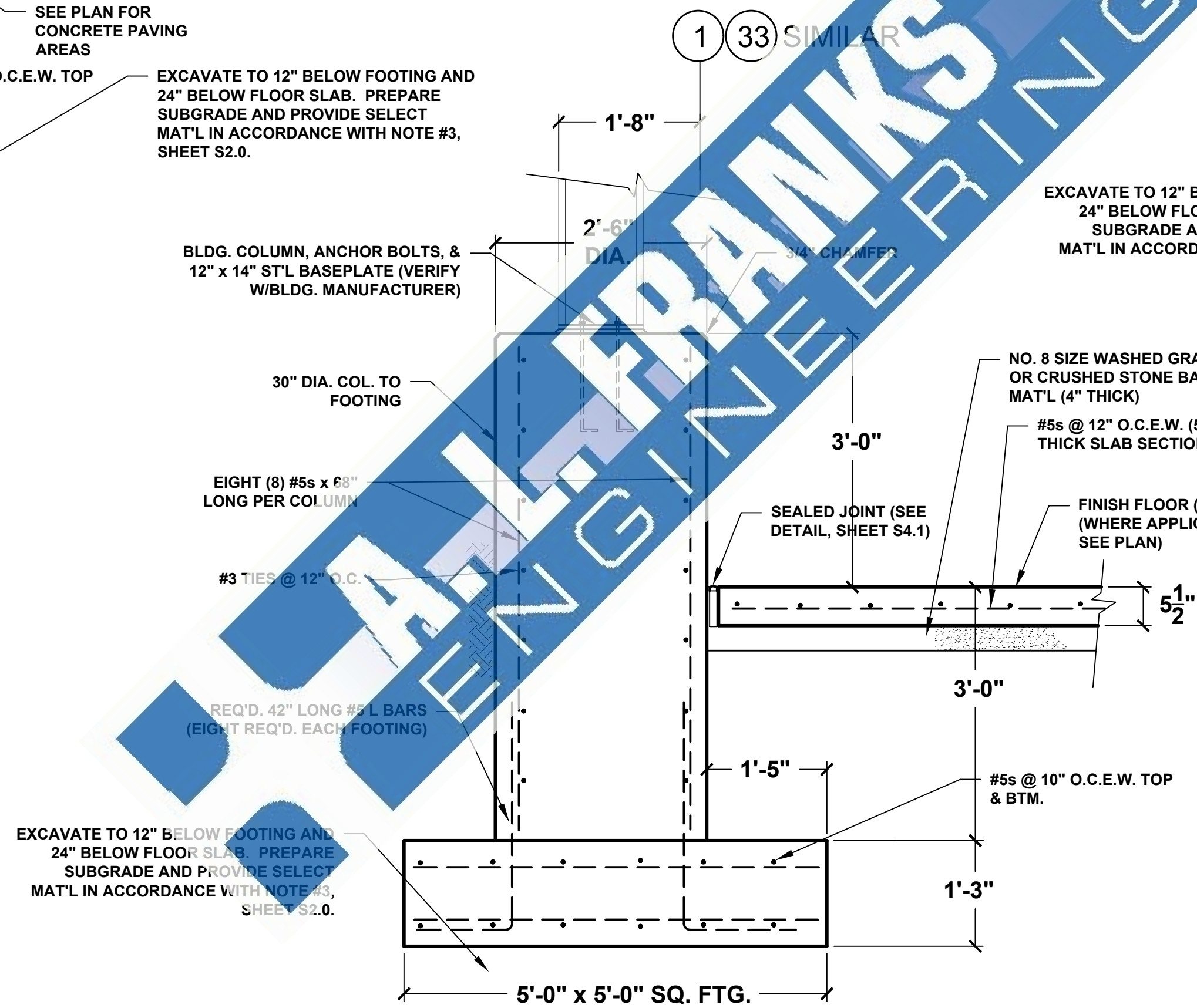
FOOTINGS (A) & (B)
COLUMN LINE Ad
(COLUMN LINE L SIMILAR)

SCALE: 3/4" = 1' - 0"

*PROVIDE FOOTING B SIMILAR TO DETAIL WITH THE FOLLOWING EXCEPTIONS:

- FOOTING IS 10' x 8' WITH #6s @ 10" O.C.E.W. TOP & BTM.
- COLUMN IS 64" x 30" WITH FOURTEEN (14) #7s x 54" LONG VERT. AT A SPACING NO GREATER THAN 12" O.C.
- FOURTEEN (14) L BARS, EACH 54" LONG, SHALL BE PLACED IN COLUMN / FOOTING

1 1
S1.0 S5.0

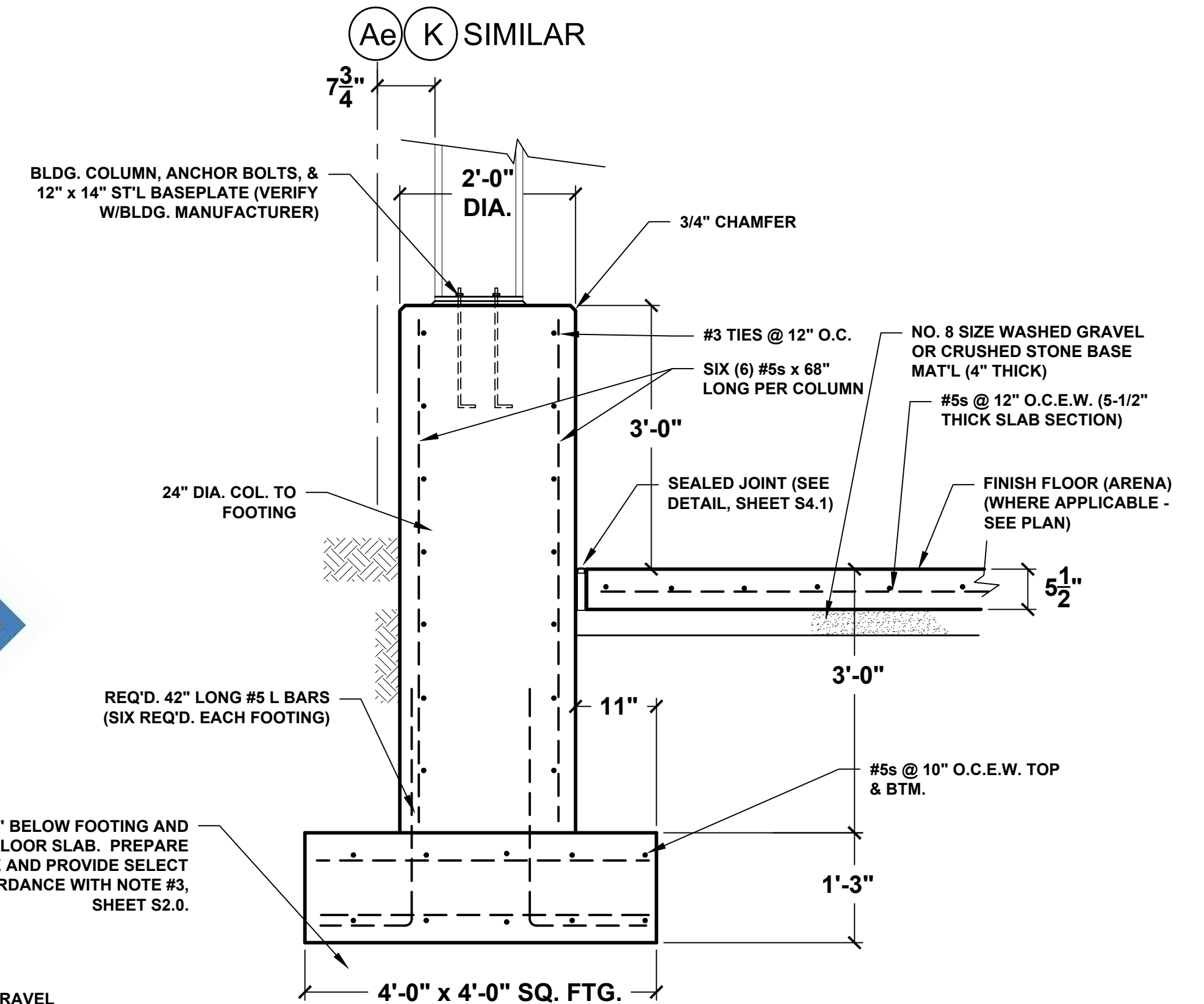


FOOTINGS (E)
COLUMN LINE 1
(COLUMN LINE 33 SIMILAR)

SCALE: 3/4" = 1' - 0"

3 3
S1.0 S5.0

NOTE:
1. SEE PLANS FOR LOCATION OF CONCRETE FLOOR



FOOTINGS (C)
COLUMN LINE Ae
ALONG GRID LINES 1-10 and 29-33

SCALE: 3/4" = 1' - 0"

2
S1.0

NOTE:
1. SEE PLANS FOR LOCATION OF CONCRETE FLOOR

CAST-IN-PLACE CONCRETE
1. SEE NOTES, SHEET S4.0.

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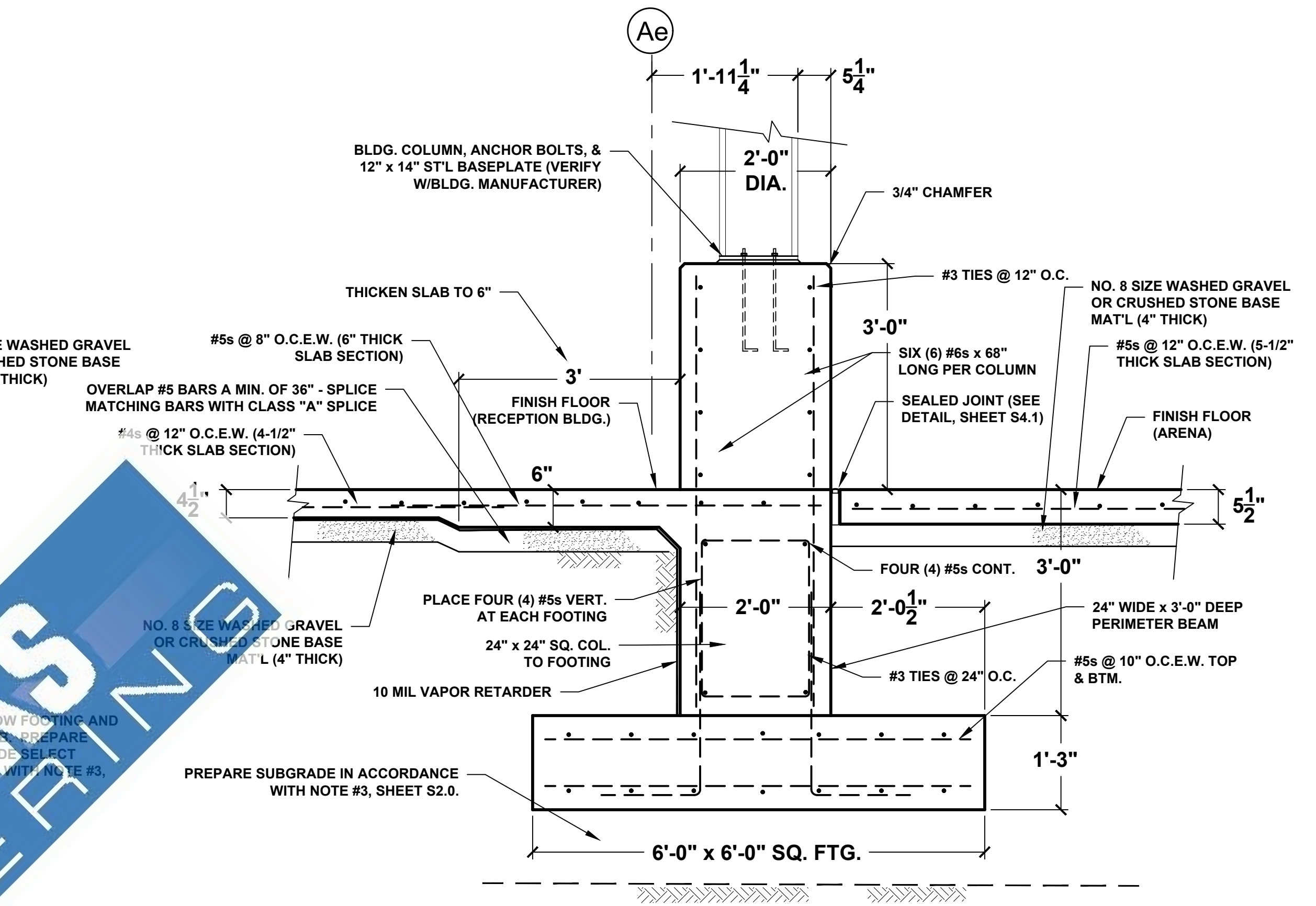
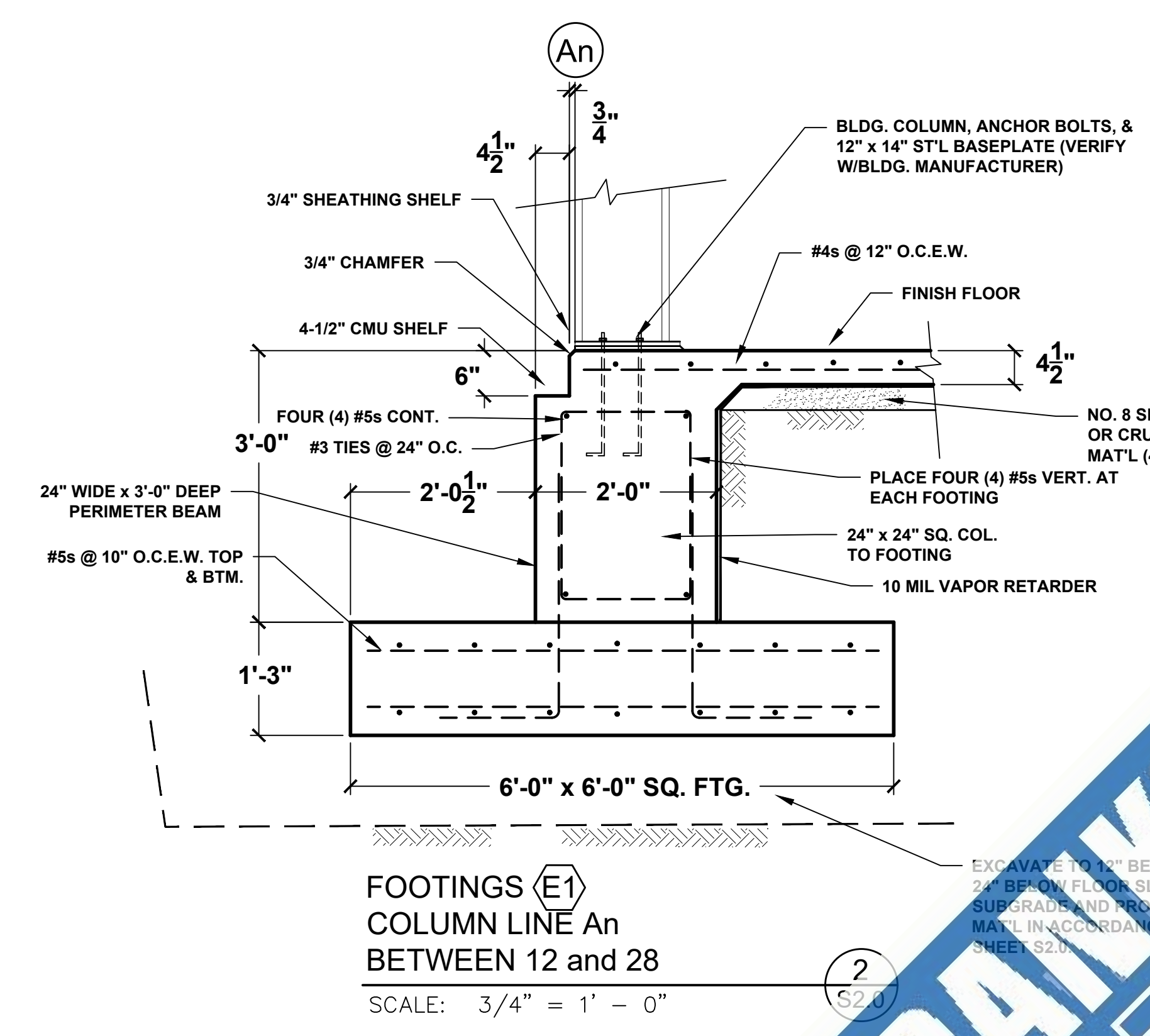
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ARENA
FOUNDATION DETAILS

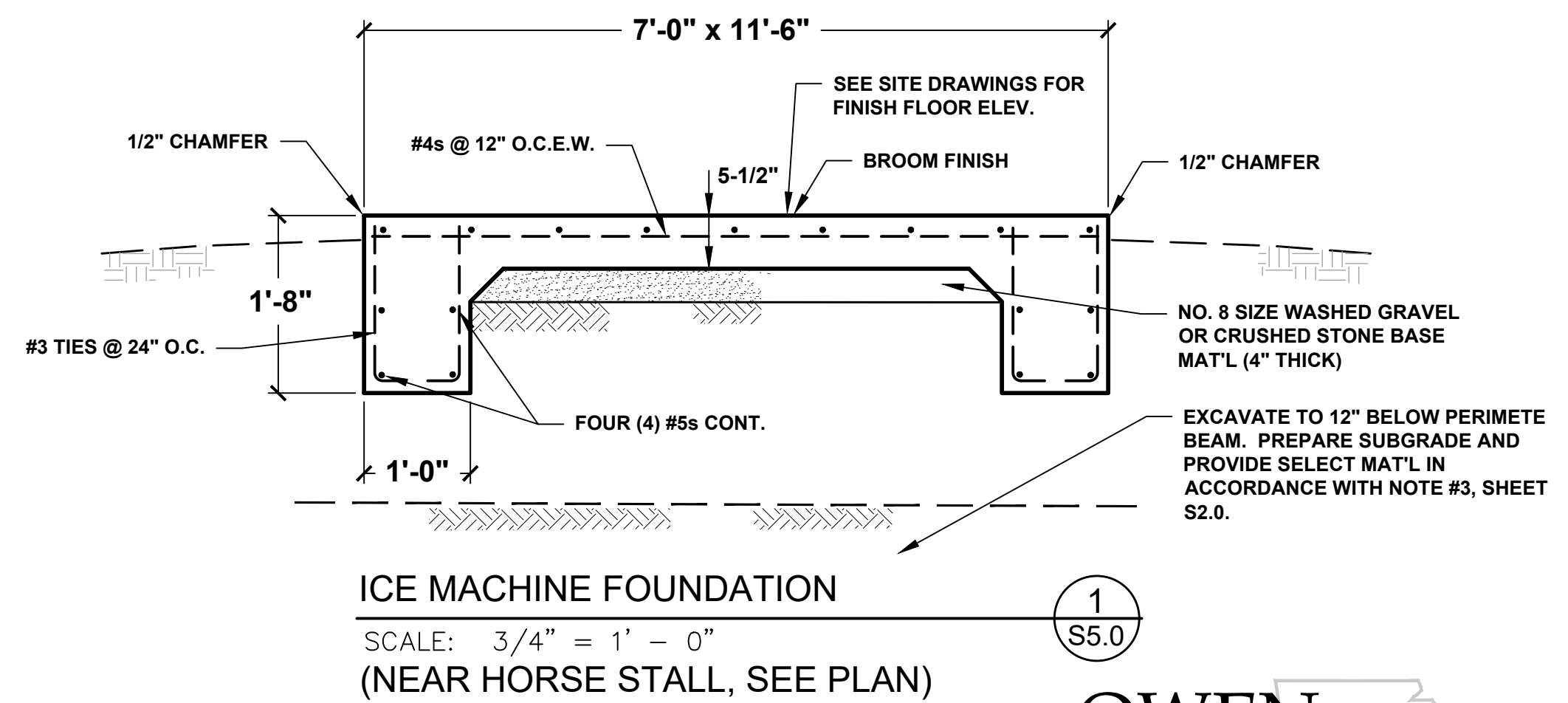
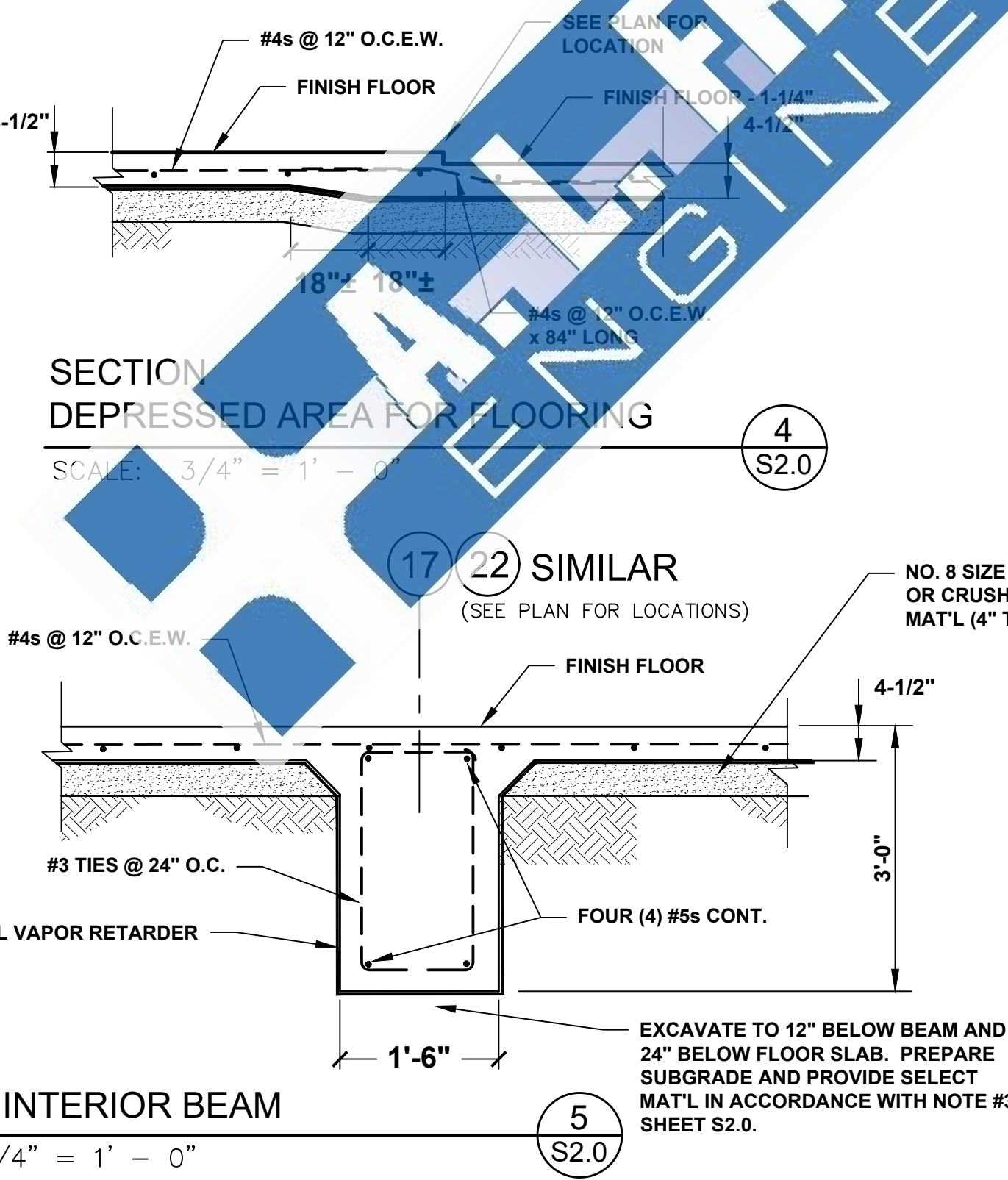
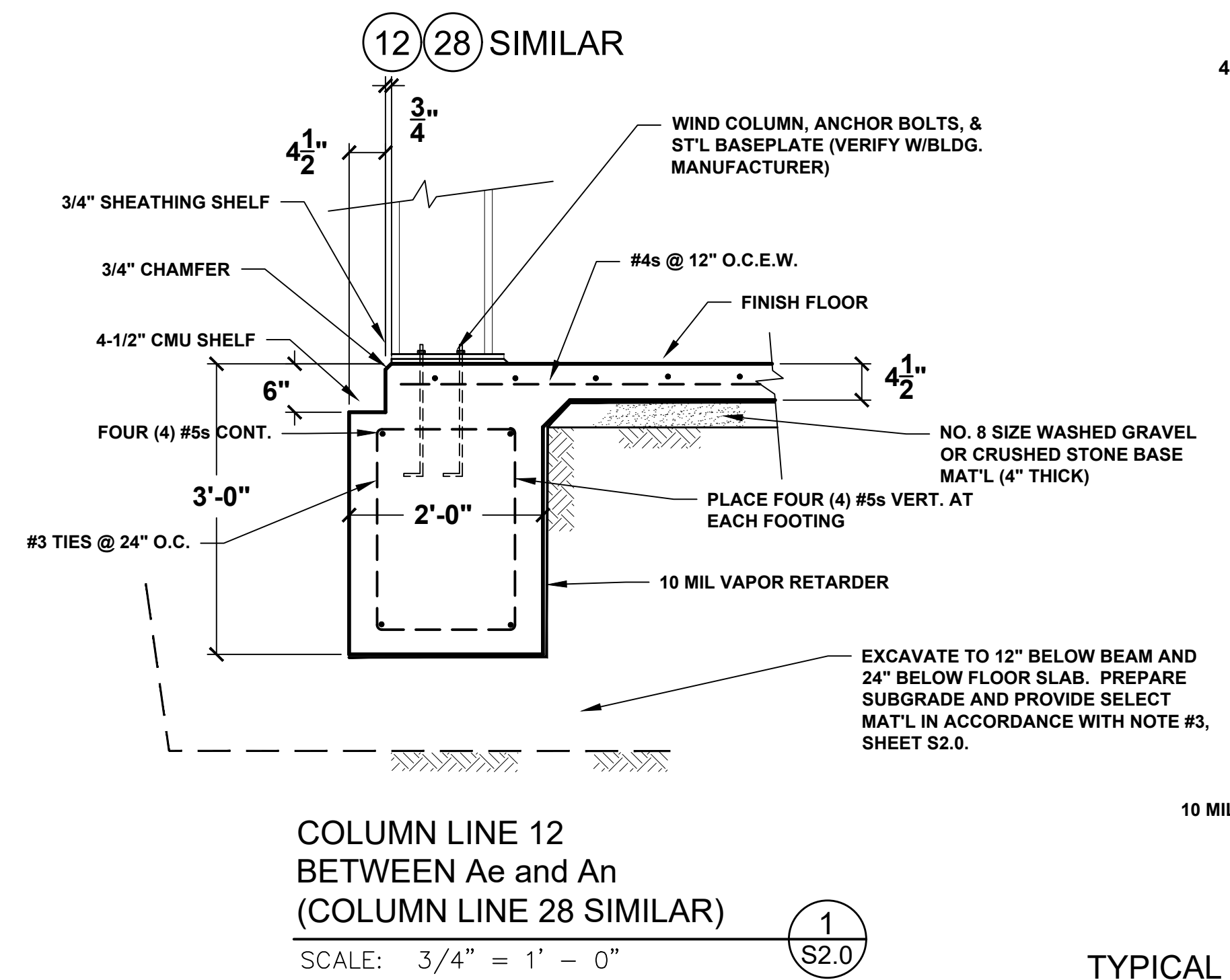
Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S3.0**

CAST-IN-PLACE CONCRETE

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**NOTE: VAPOR RETARDER
REQUIRED UNDER ALL
SLABS ON GRADE UNDER
CONDITIONED SPACE ONLY.**



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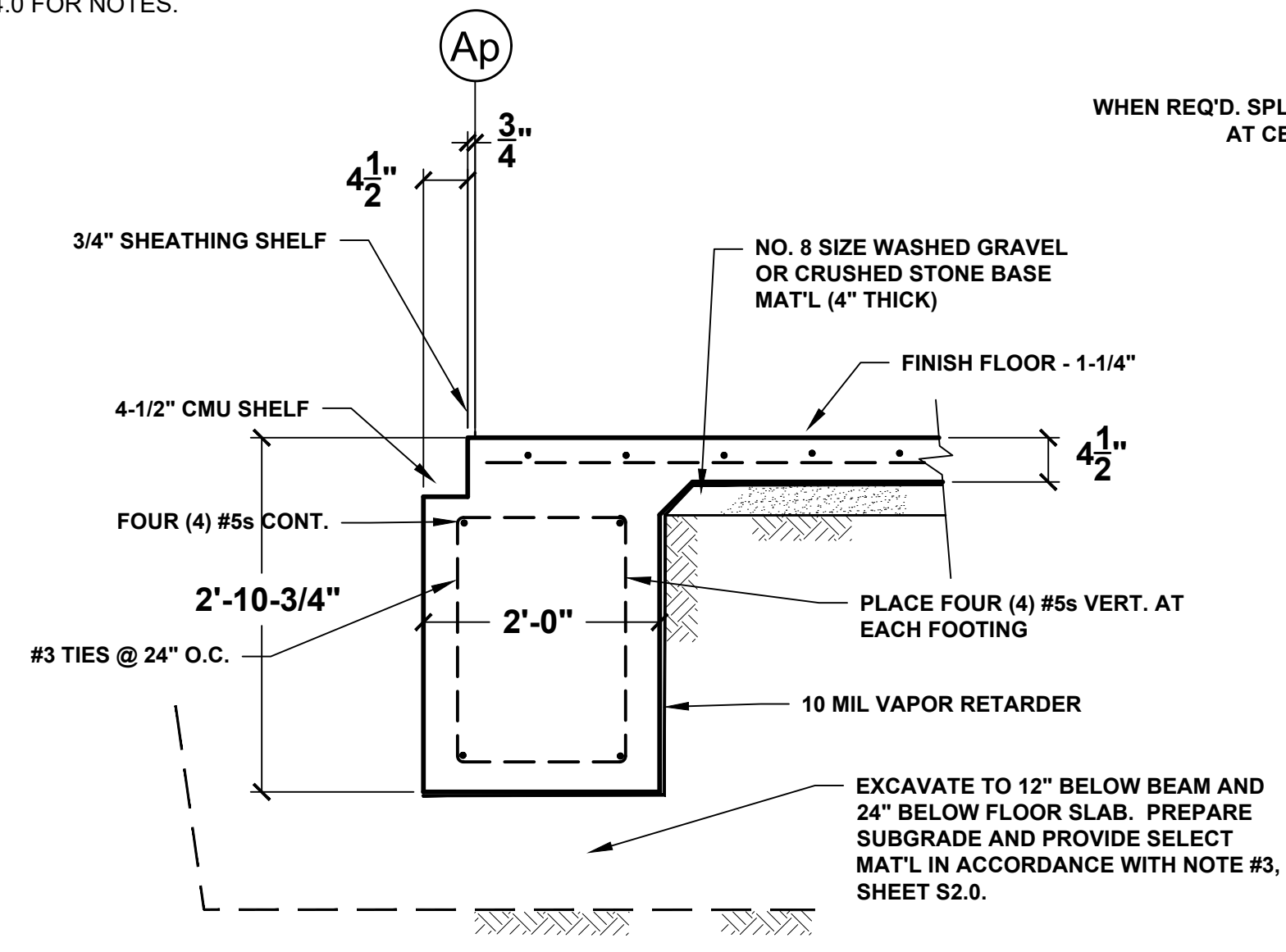
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EL DORADO, ARKANSAS 71730**

**RECEPTION / HORSE STALL
FOUNDATION DETAILS**

Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S4.0**

CAST-IN-PLACE CONCRETE NOTES

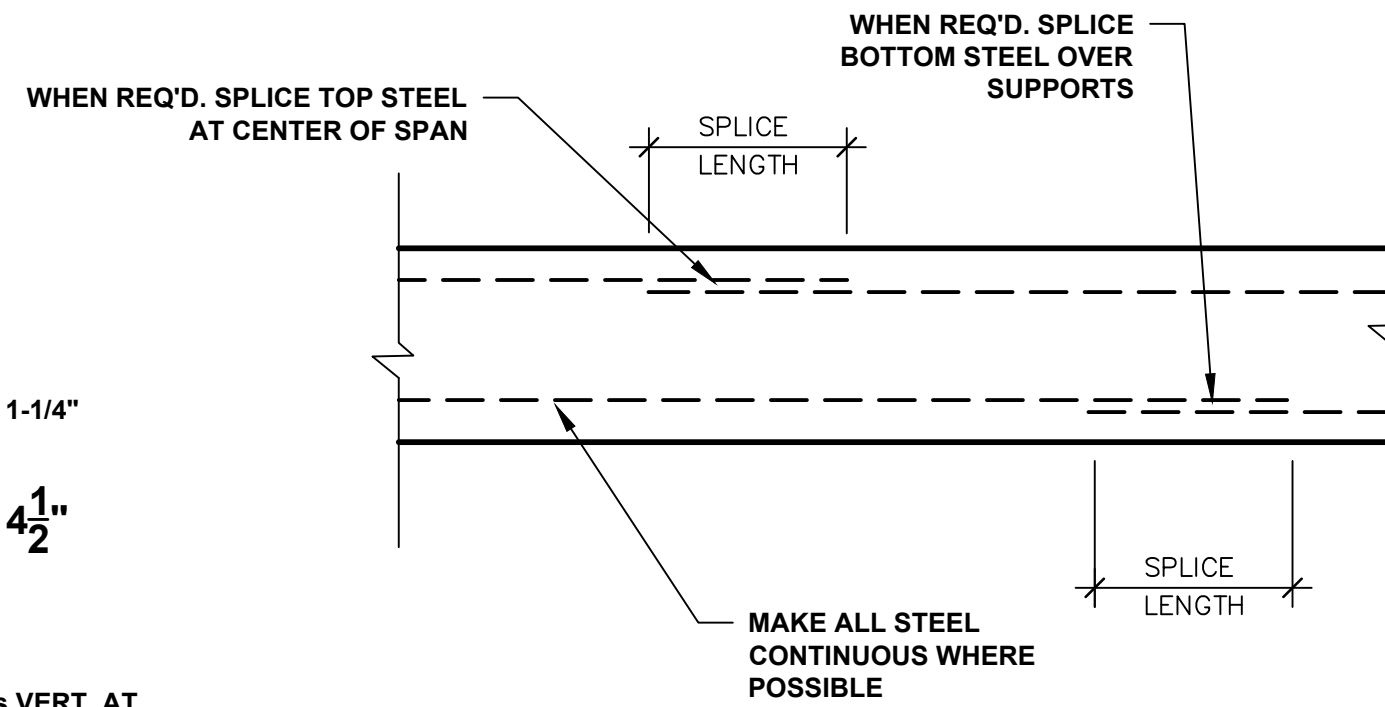
1. SEE SHEET S4.0 FOR NOTES.



SECTION THROUGH RECEPTION BLDG. FRONT ENTRANCE

SCALE: 3/4" = 1' - 0"

6
S2.0



TYPICAL GRADE BEAM BAR SPLICE DETAIL

NOT TO SCALE

BEAM STEEL	SPLICE LENGTH
#6 & SMALLER	2' - 0"
#7 & #8	3' - 0"
#9 & #10	4' - 0"

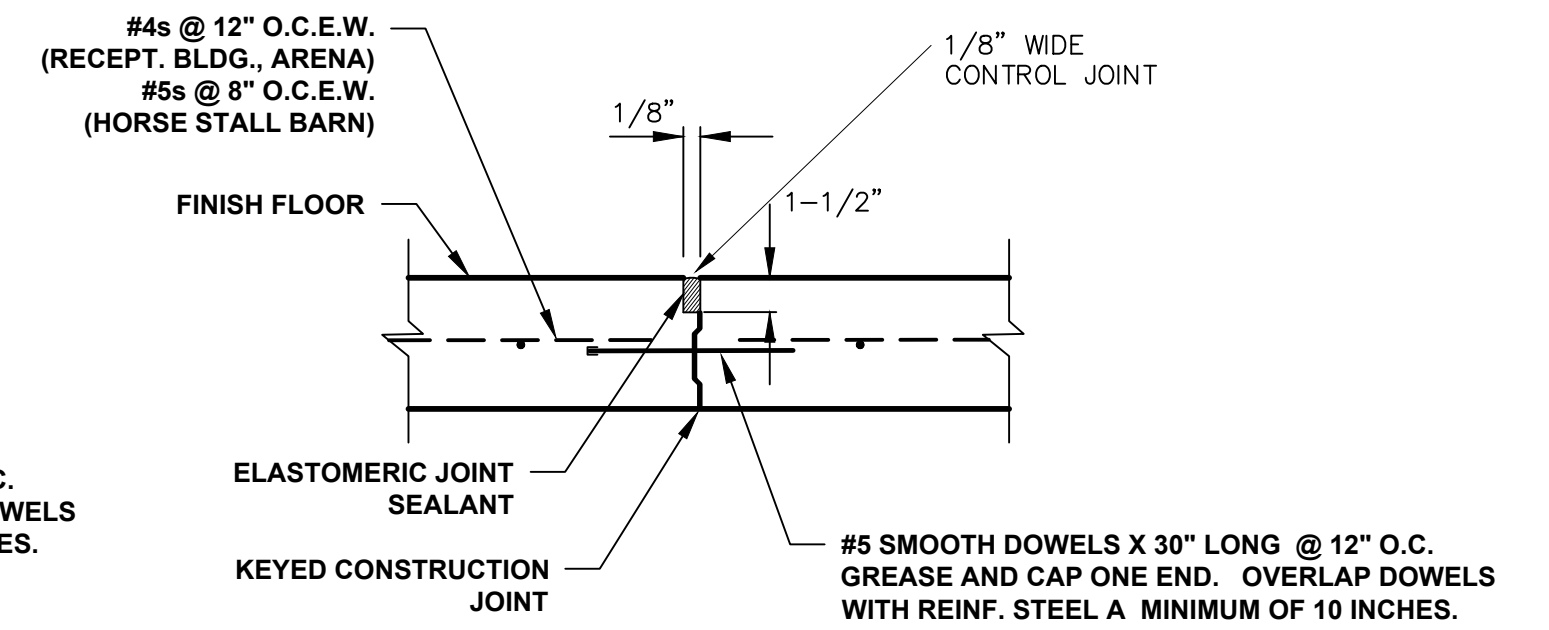
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S2.0



SAWN CONTRACTION JOINT DETAIL

NOT TO SCALE

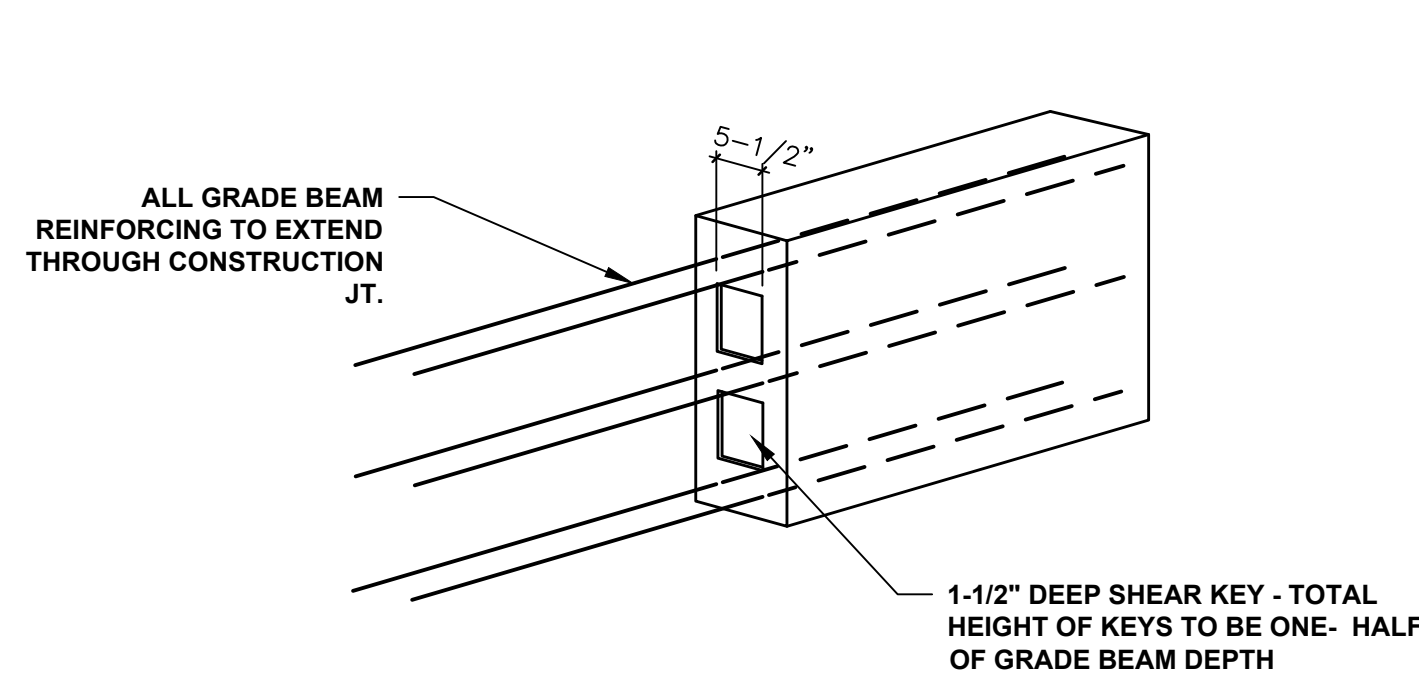
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S1.0



SECTION - PERMISSIBLE CONSTRUCTION JOINT

NOT TO SCALE

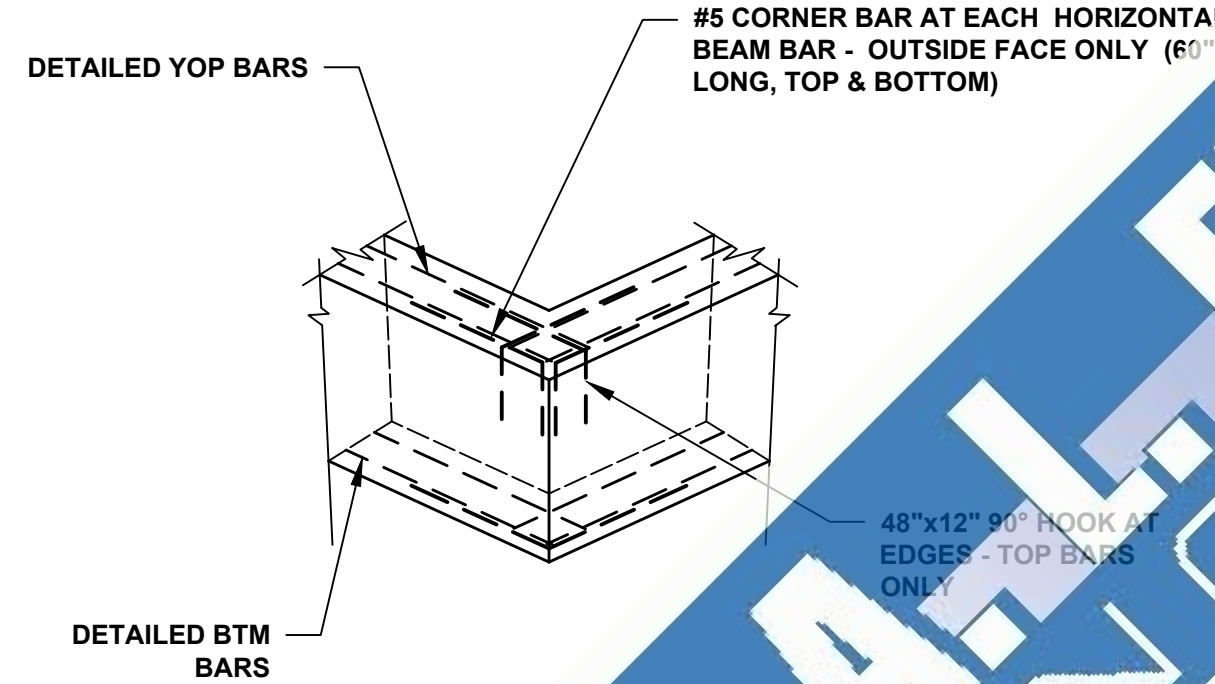
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S2.0



TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL

NOT TO SCALE

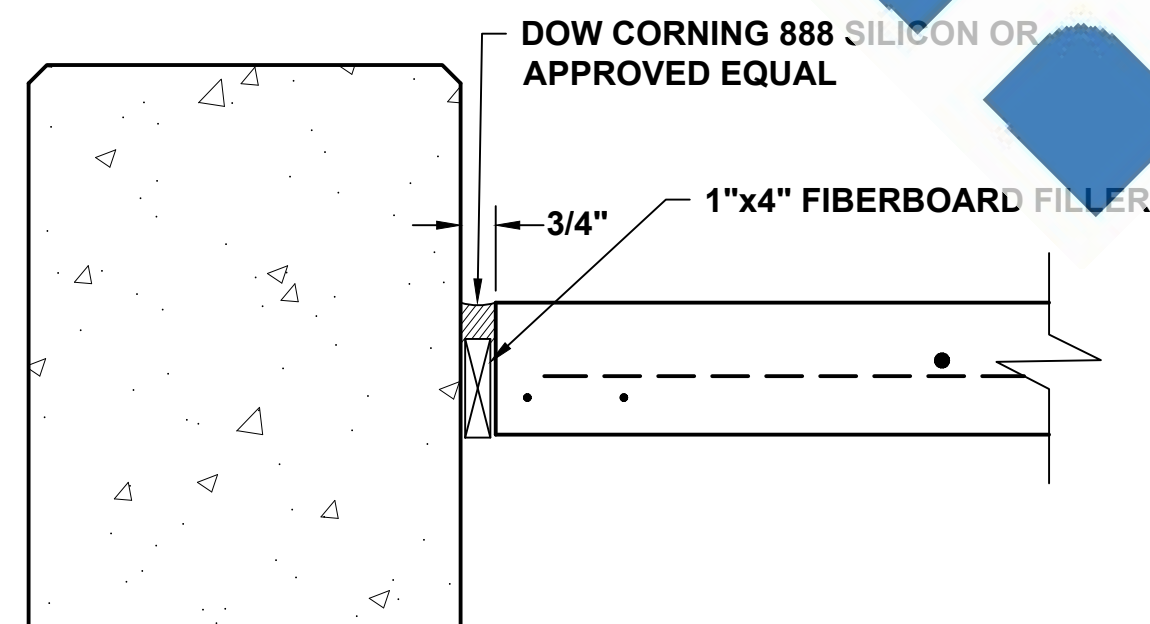
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CORNER BAR DETAIL

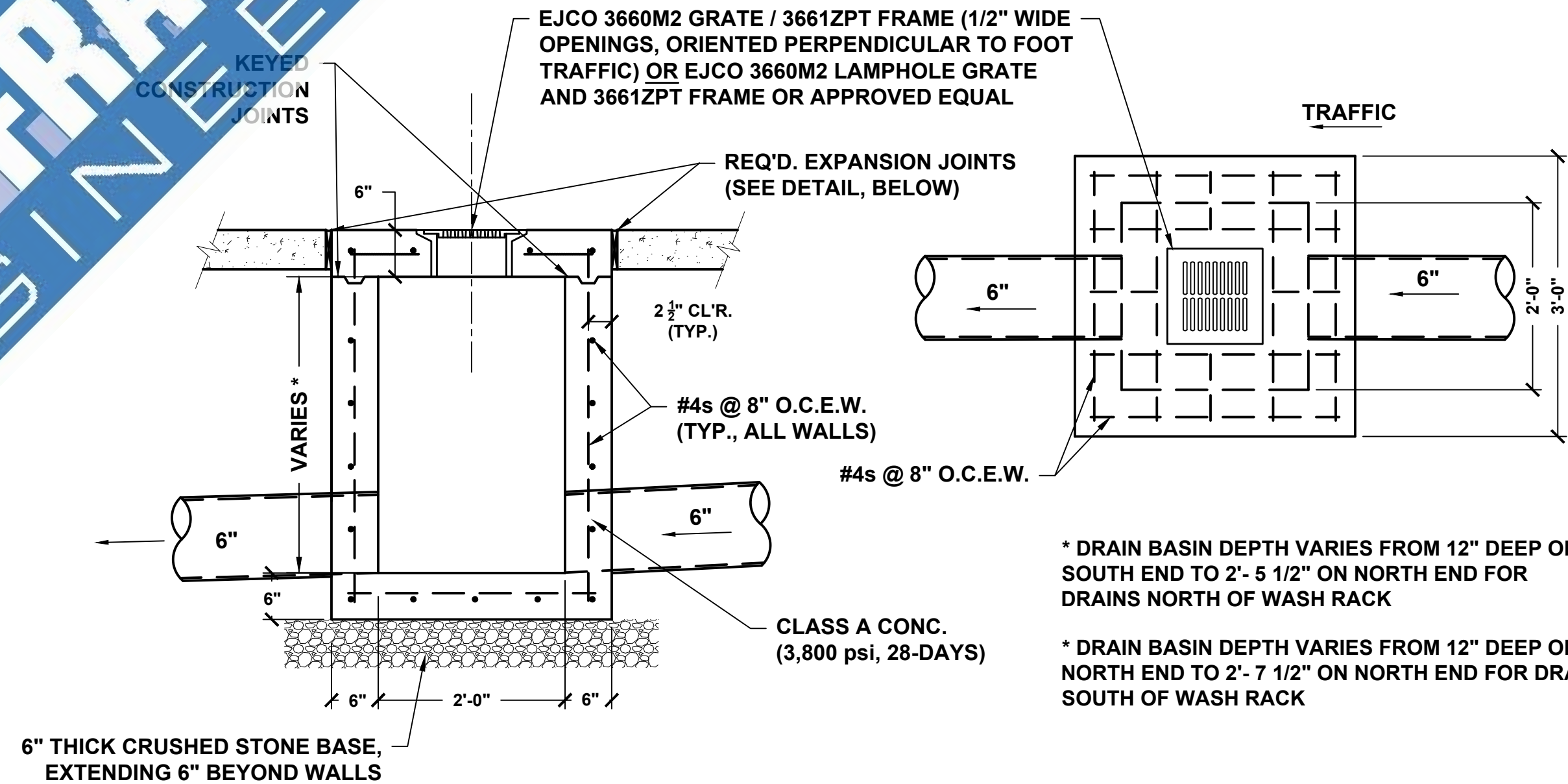
NOT TO SCALE

11
S2.0



SEALED JOINT DETAIL

NOT TO SCALE



HORSE STALL DRAIN DETAIL

HORSE STALL DRAIN DETAIL

NOT TO SCALE

1
S5.0

* DRAIN BASIN DEPTH VARIES FROM 12" DEEP ON SOUTH END TO 2'- 5 1/2" ON NORTH END FOR DRAINS NORTH OF WASH RACK
* DRAIN BASIN DEPTH VARIES FROM 12" DEEP ON NORTH END TO 2'- 7 1/2" ON NORTH END FOR DRAINS SOUTH OF WASH RACK

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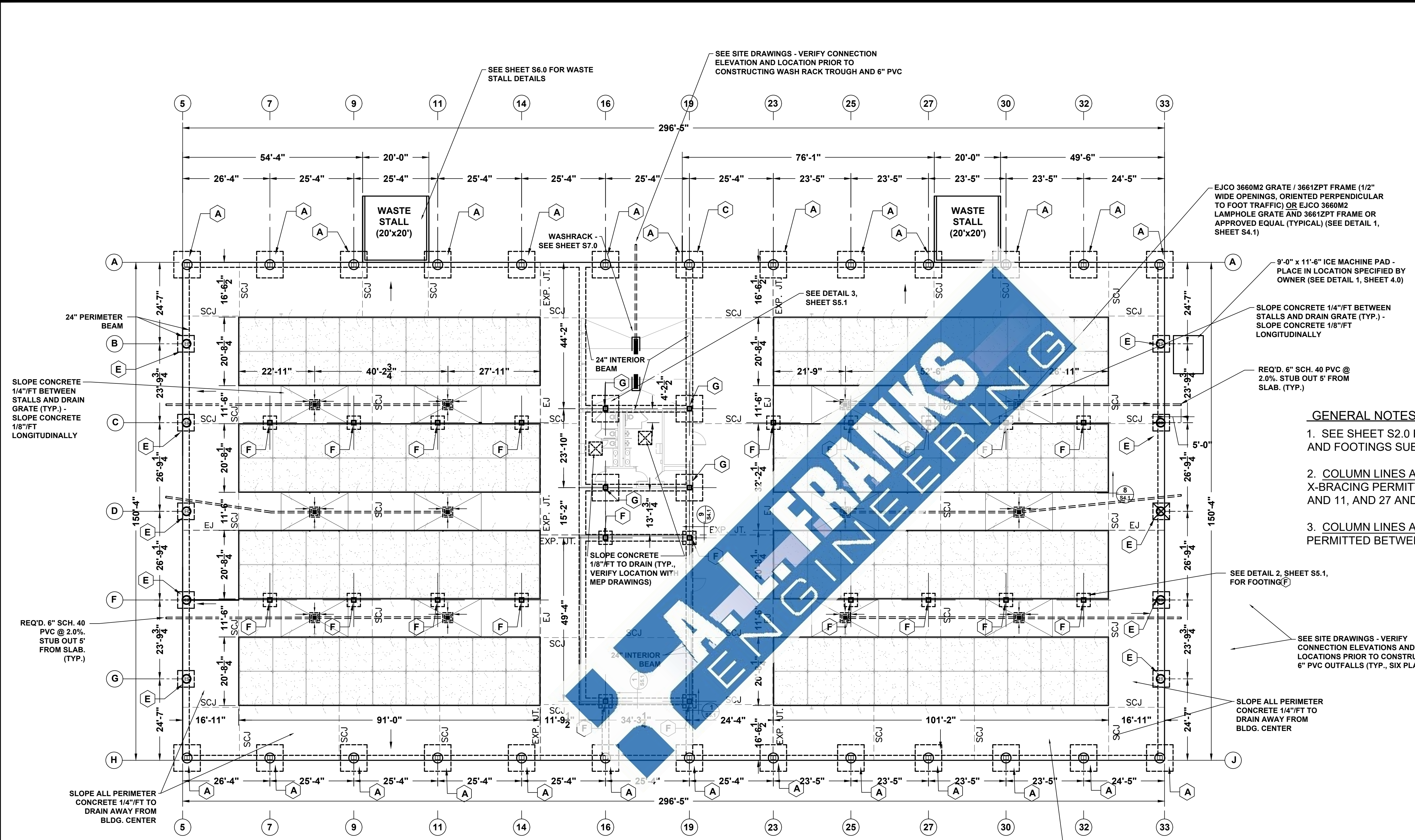
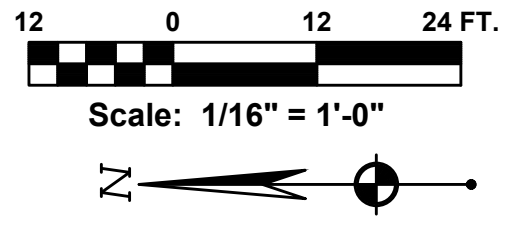
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EL DORADO, ARKANSAS 71730

FOUNDATION DETAILS

Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S4.1**



GENERAL NOTES

1. SEE SHEET S2.0 FOR METAL BUILDING FOUNDATION AND FOOTINGS SUBGRADE PREPARATION NOTES.
2. COLUMN LINES A AND J: MOMENT PORTALS OR X-BRACING PERMITTED BETWEEN COLUMN LINES 9 AND 11, AND 27 AND 30.
3. COLUMN LINES A AND J: MOMENT PORTALS ONLY PERMITTED BETWEEN COLUMN LINES 16 AND 19.

FOOTING SCHEDULE		
A	8' x 8' x 15" THICK	REF. DETAIL 1, SHEET S3.0
E	5' x 5' x 15" THICK	REF. DETAIL 3, SHEET S3.0
F	4' x 4' x 15" THICK	REF. DETAIL 2, SHEET S5.1
G	8' x 8' x 15" THICK	REF. DETAIL 3, SHEET S5.1

5-1/2" THICK CONCRETE REINFORCED WITH #5s @ 8" O.C.E.W.

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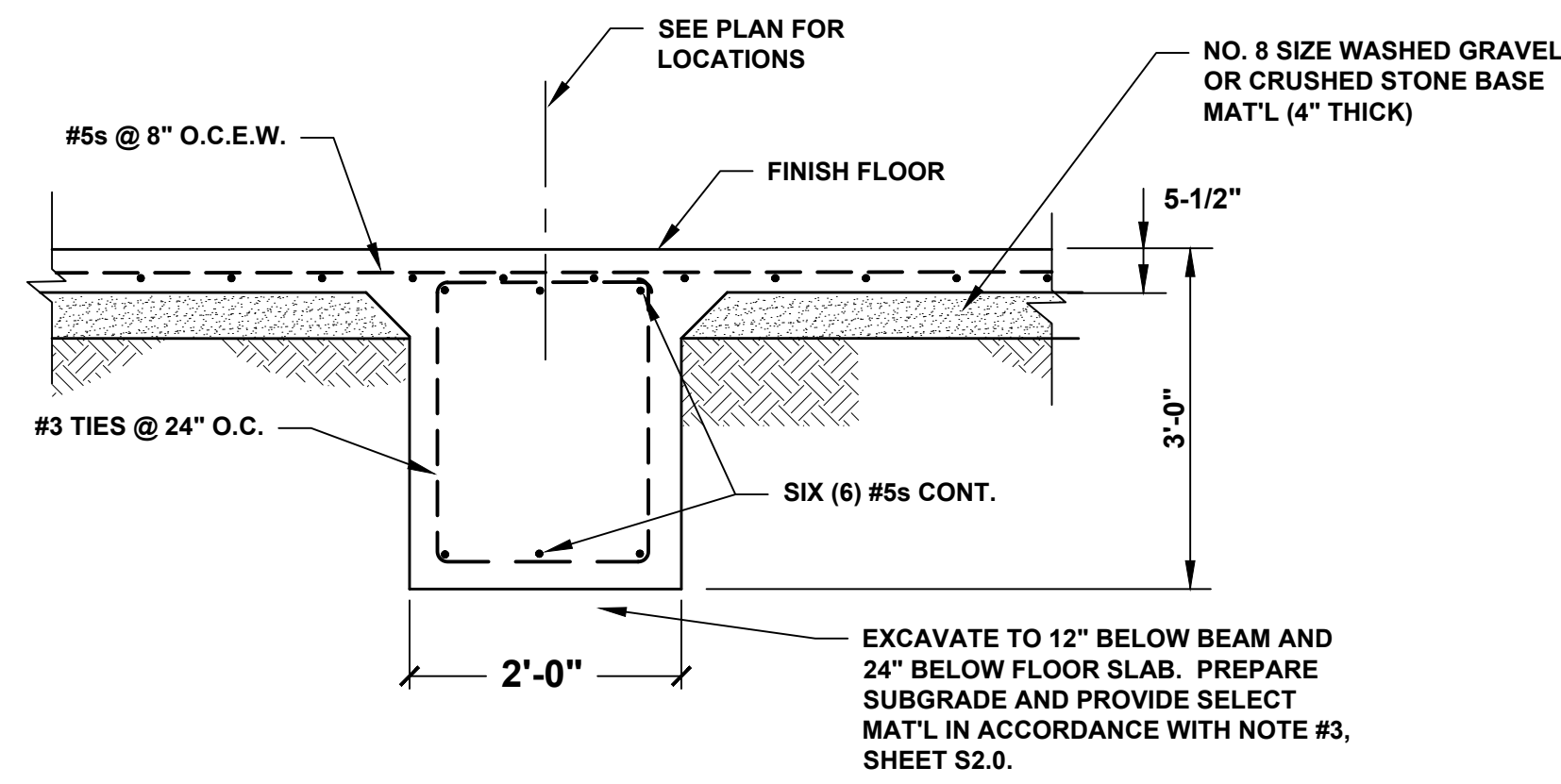
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HORSE STALL BARN
FOUNDATION PLAN

Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S5.0**

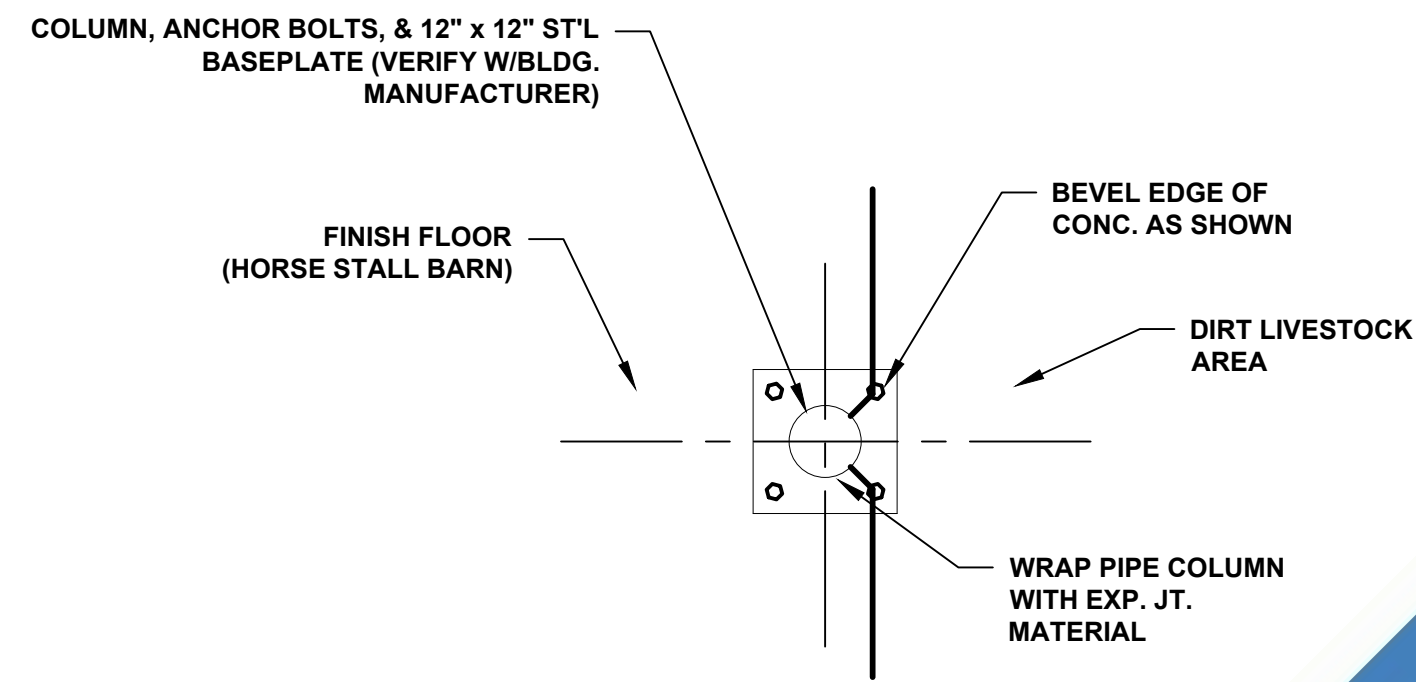
CAST-IN-PLACE CONCRETE NOTES

1. SEE SHEET S4.0 FOR NOTES.

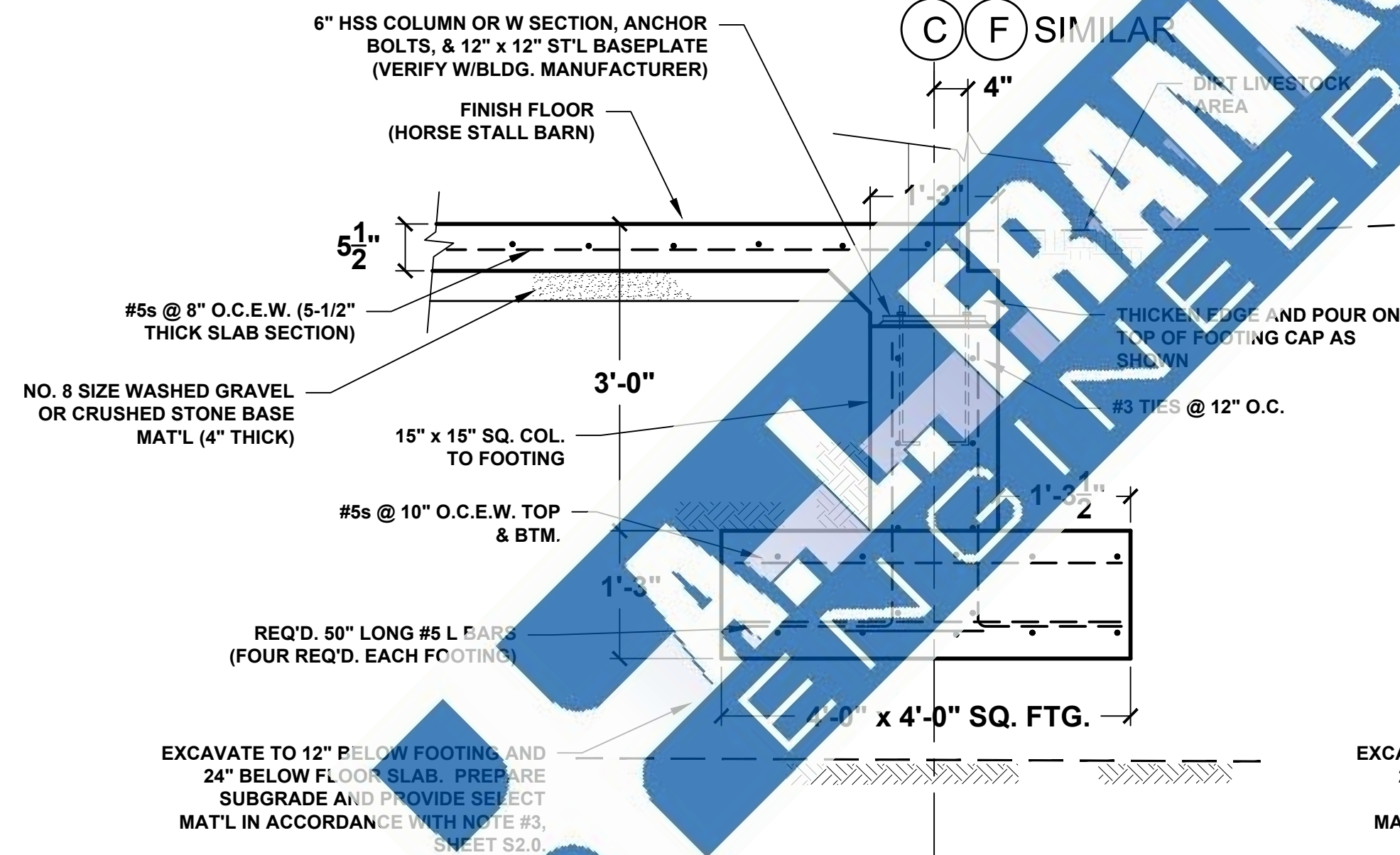


TYPICAL INTERIOR BEAM
SCALE: 3/4" = 1' - 0"
1 S5.0

NOTE: VAPOR RETARDER REQUIRED UNDER ALL SLABS ON GRADE UNDER CONDITIONED SPACE ONLY.

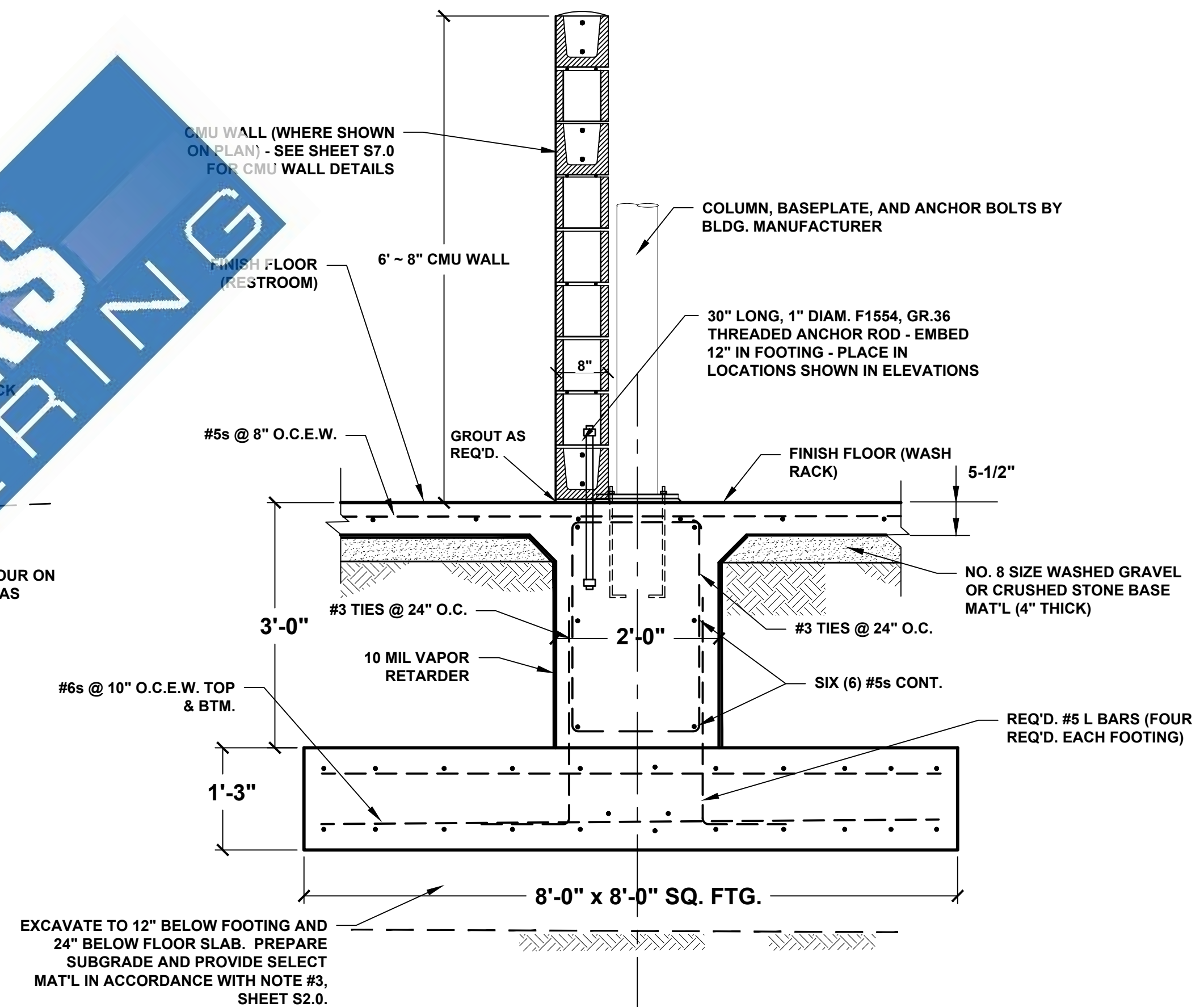


PLAN
SCALE: 3/4" = 1' - 0"



FOOTINGS (E)
COLUMN LINE C AND F
ALONG GRID LINES 7-32
SCALE: 3/4" = 1' - 0"
2 S5.0

NOTE:
1. SEE PLANS FOR LOCATION OF CONCRETE FLOOR



FOOTING (G)
SCALE: 3/4" = 1' - 0"
3 S5.0

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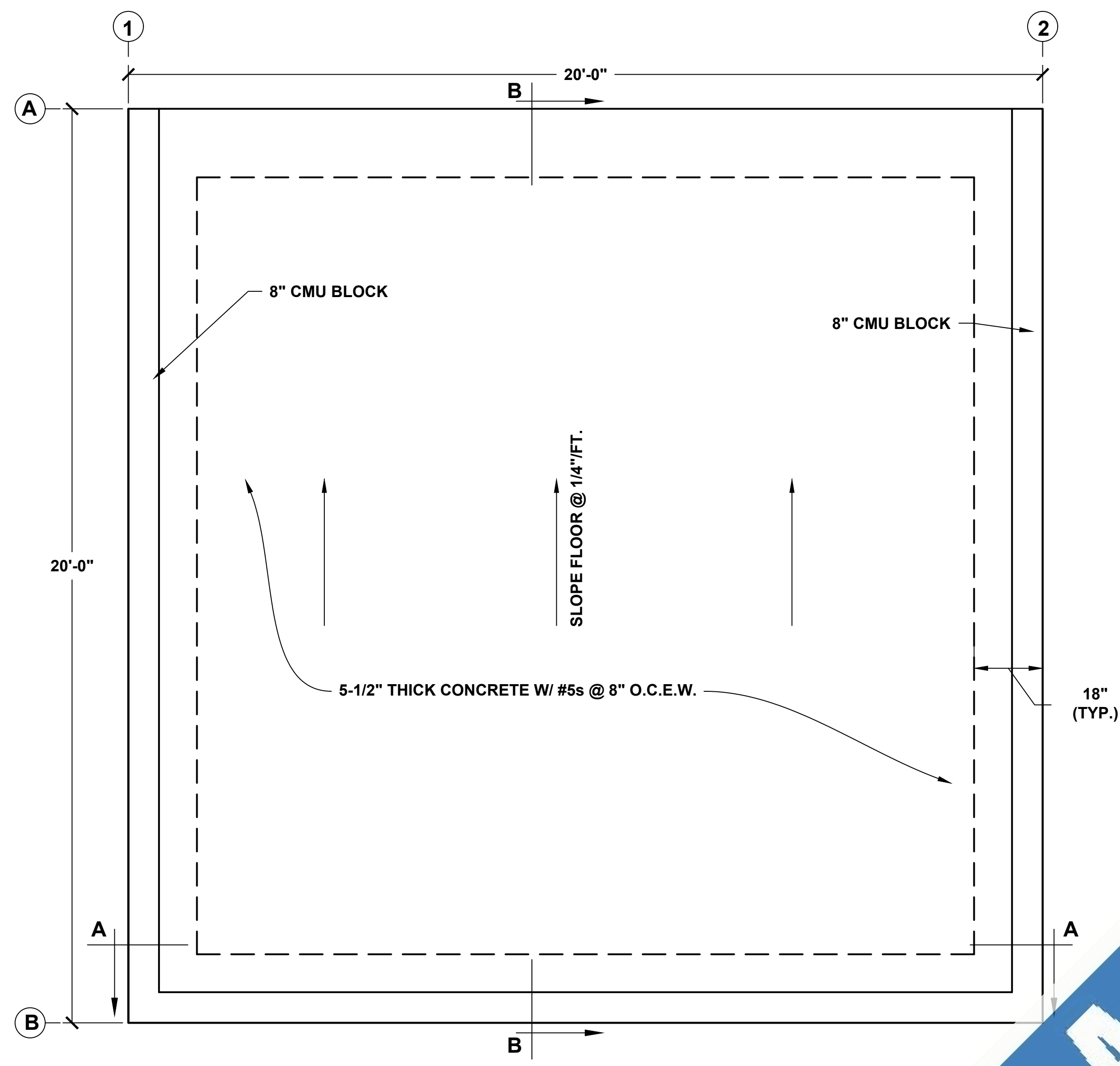
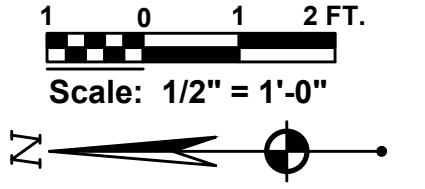
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HORSE STALL FOUNDATION DETAILS

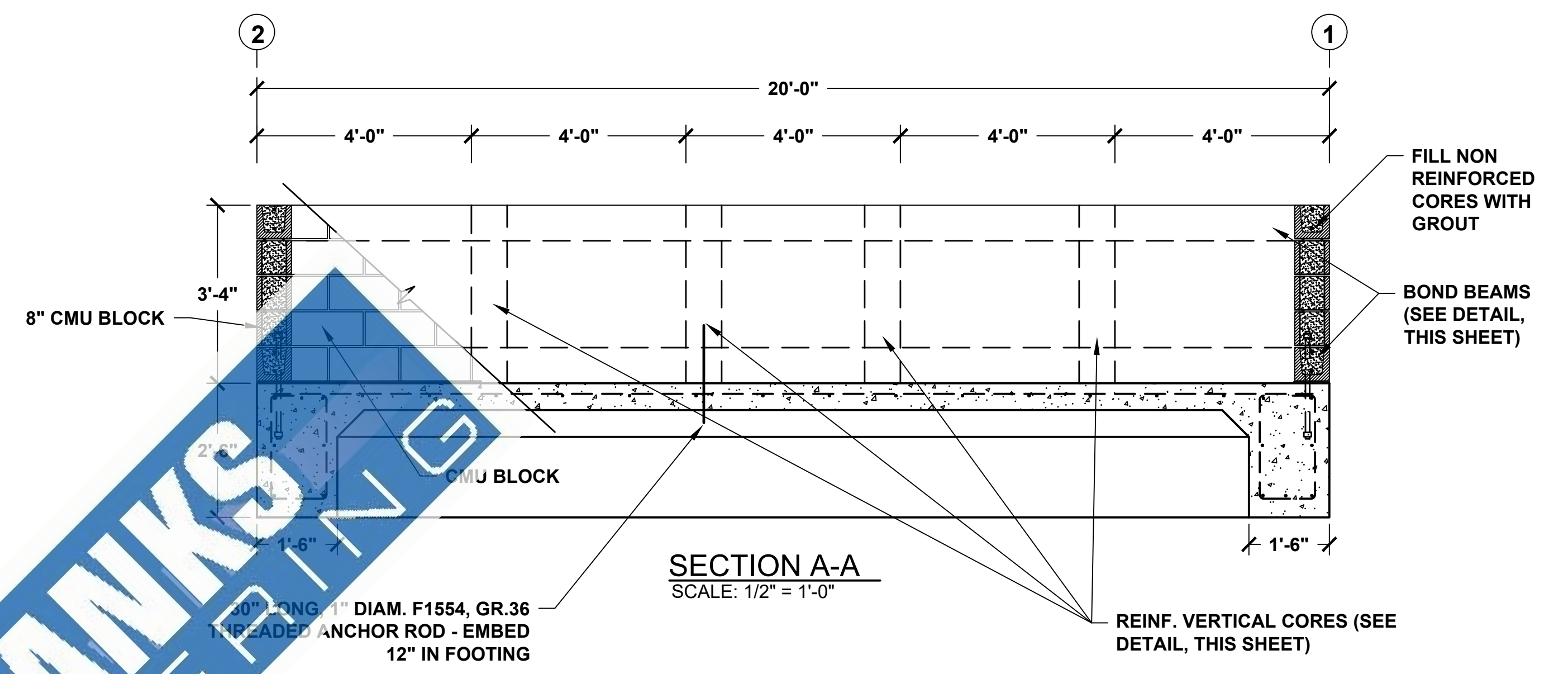


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Sheet **S4.1**

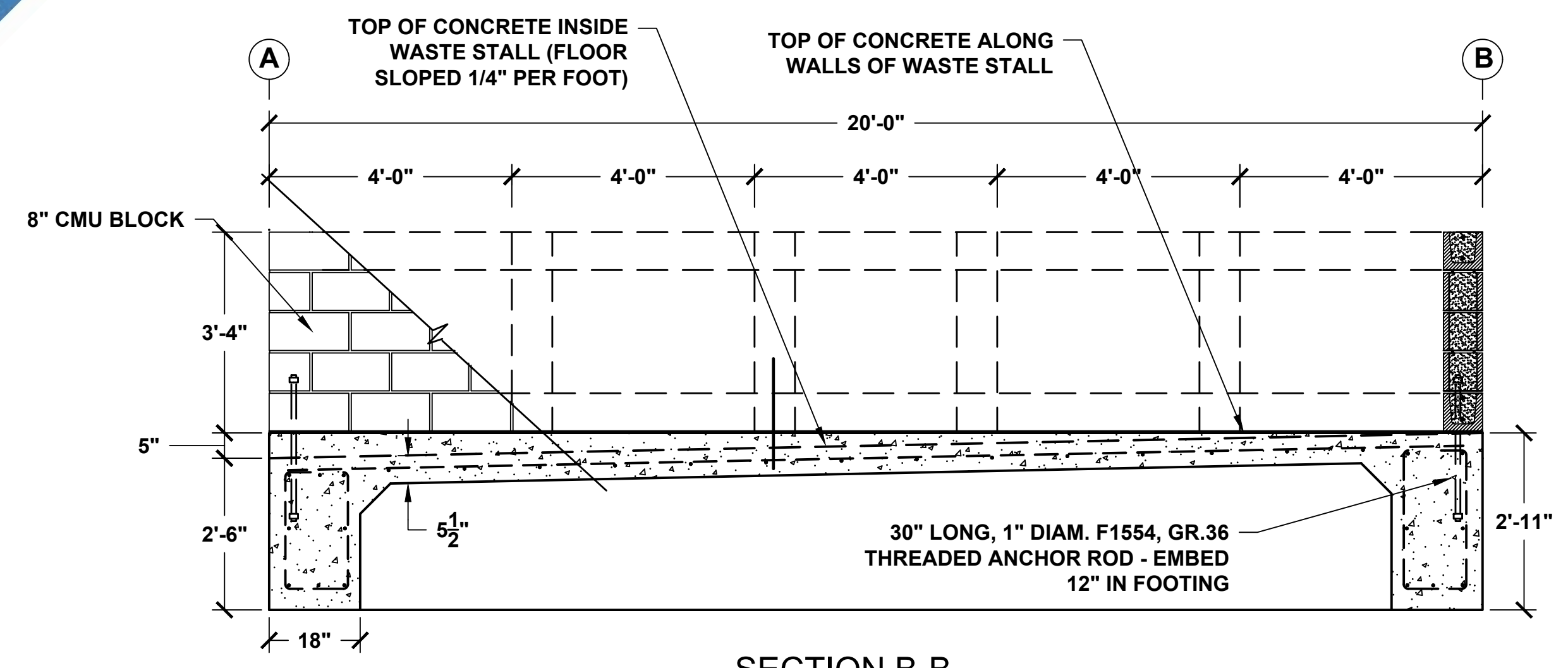
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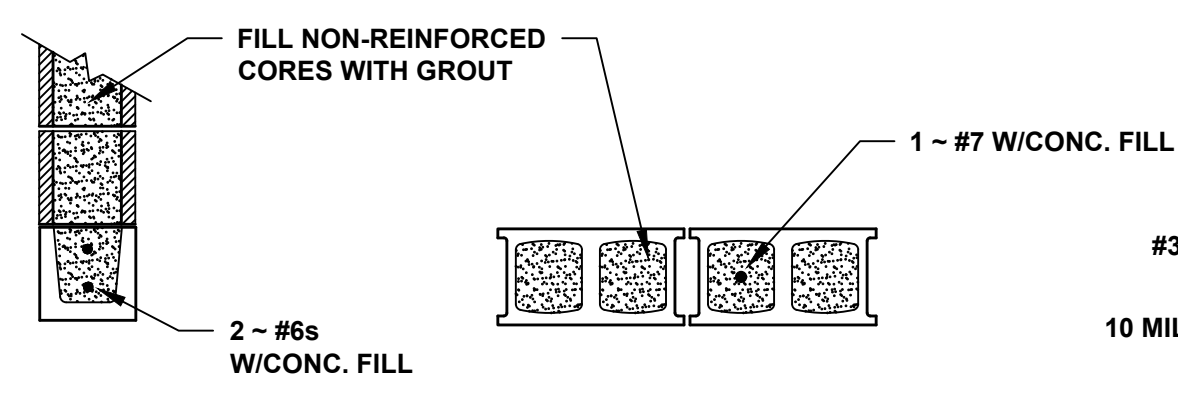
WASTE STALL PLAN
SCALE: 1/2" = 1'-0"



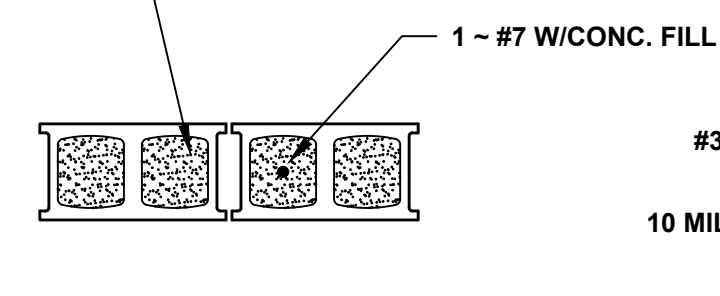
SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

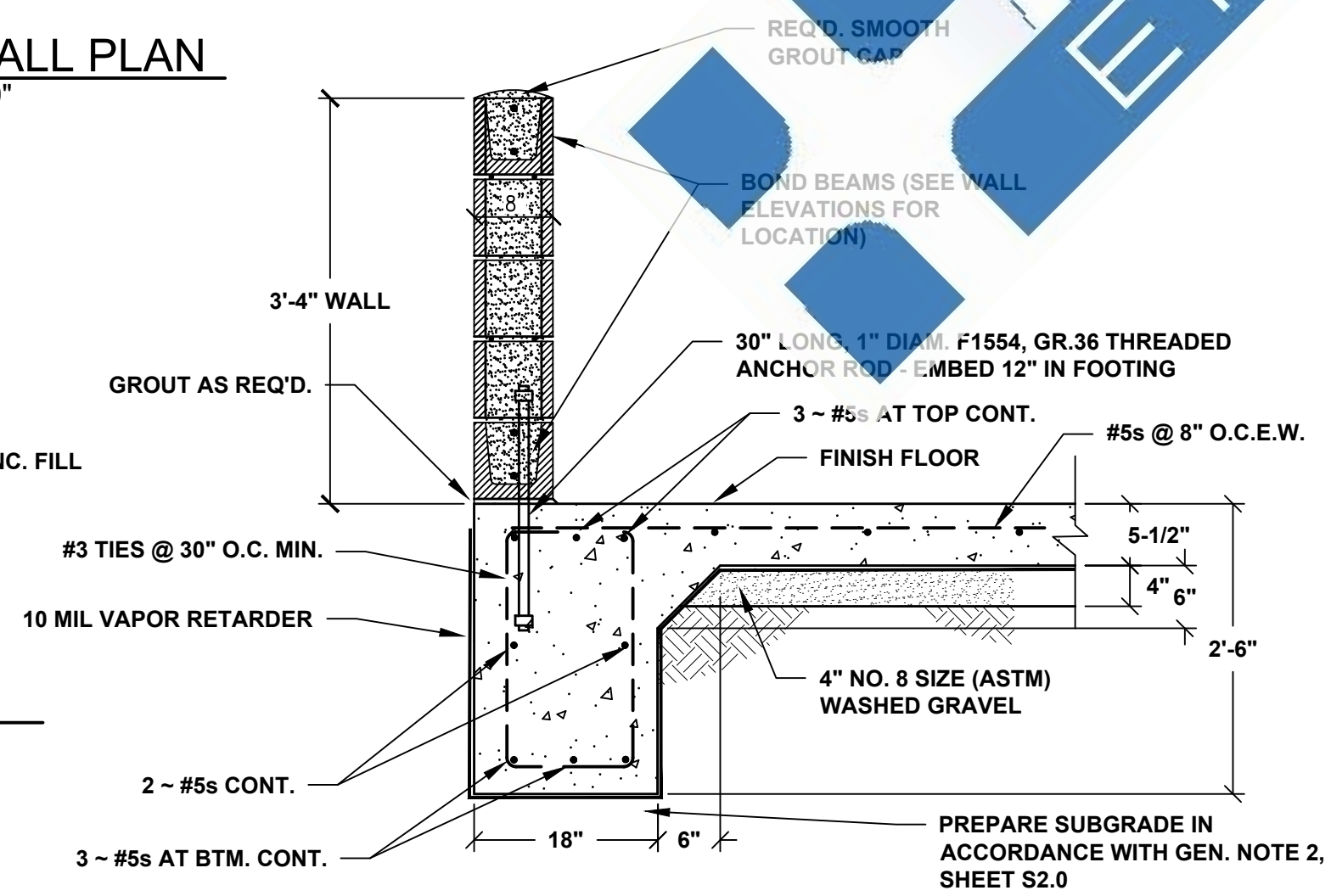


BOND BEAM DETAIL
N.T.S.



VERTICAL CORE DETAIL
N.T.S.

CMU WALL DETAILS
SCALE: 3/4" = 1' - 0"



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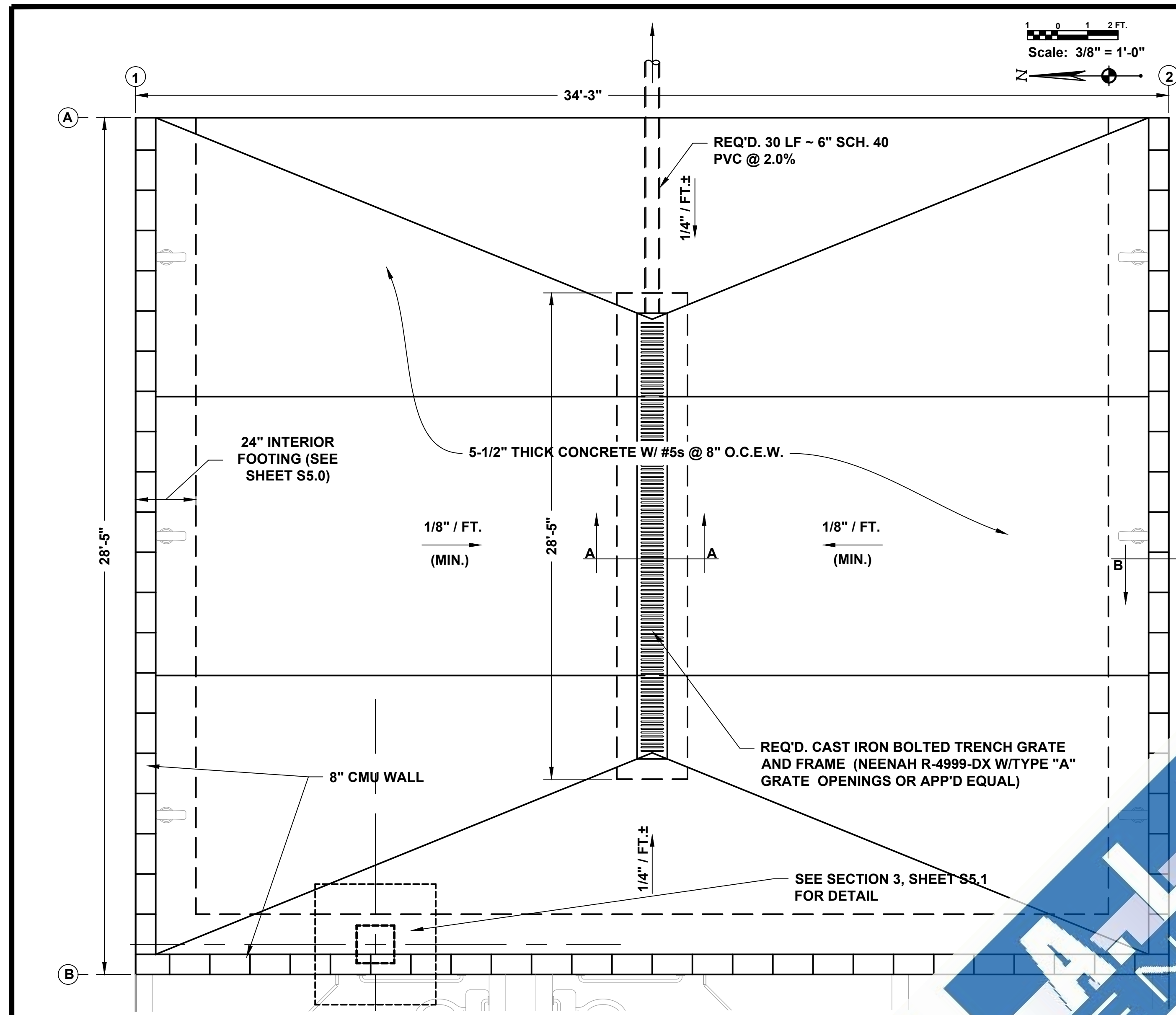
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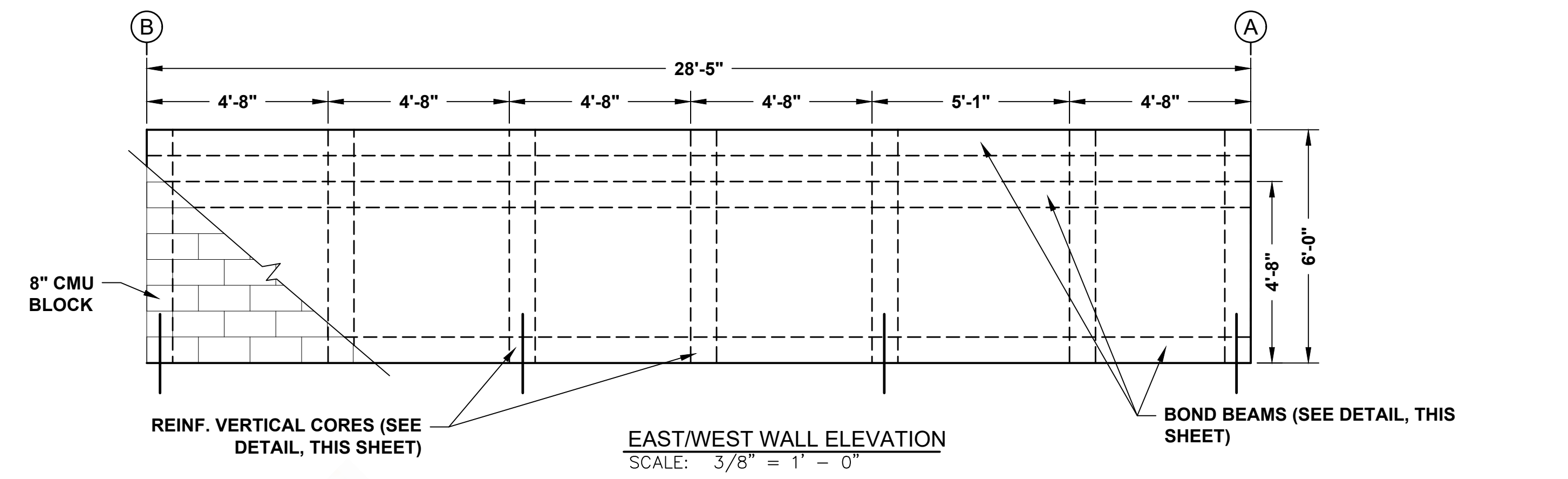
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WASTE STALL FOUNDATION
PLAN AND DETAILS

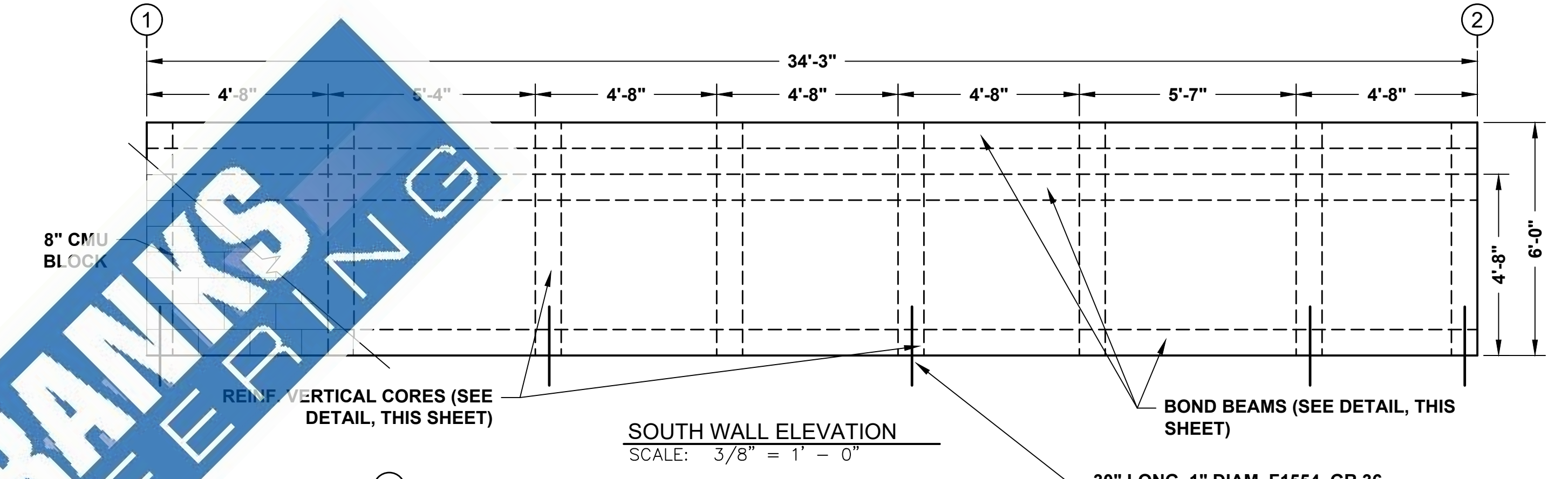
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Date: JULY 12, 2024
Sheet **S6.0**



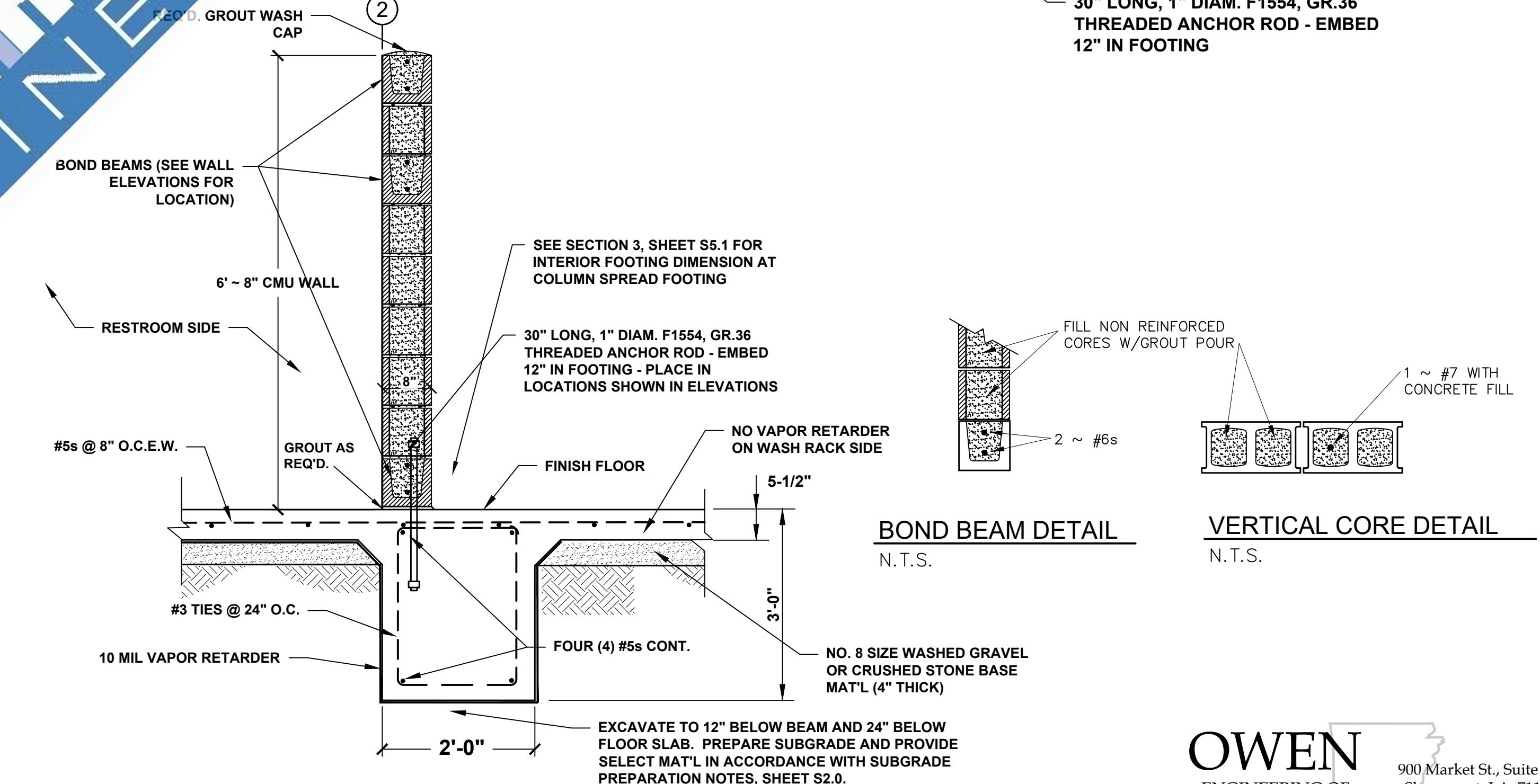
WASH RACK PLAN
SCALE: 3/8" = 1'-0"



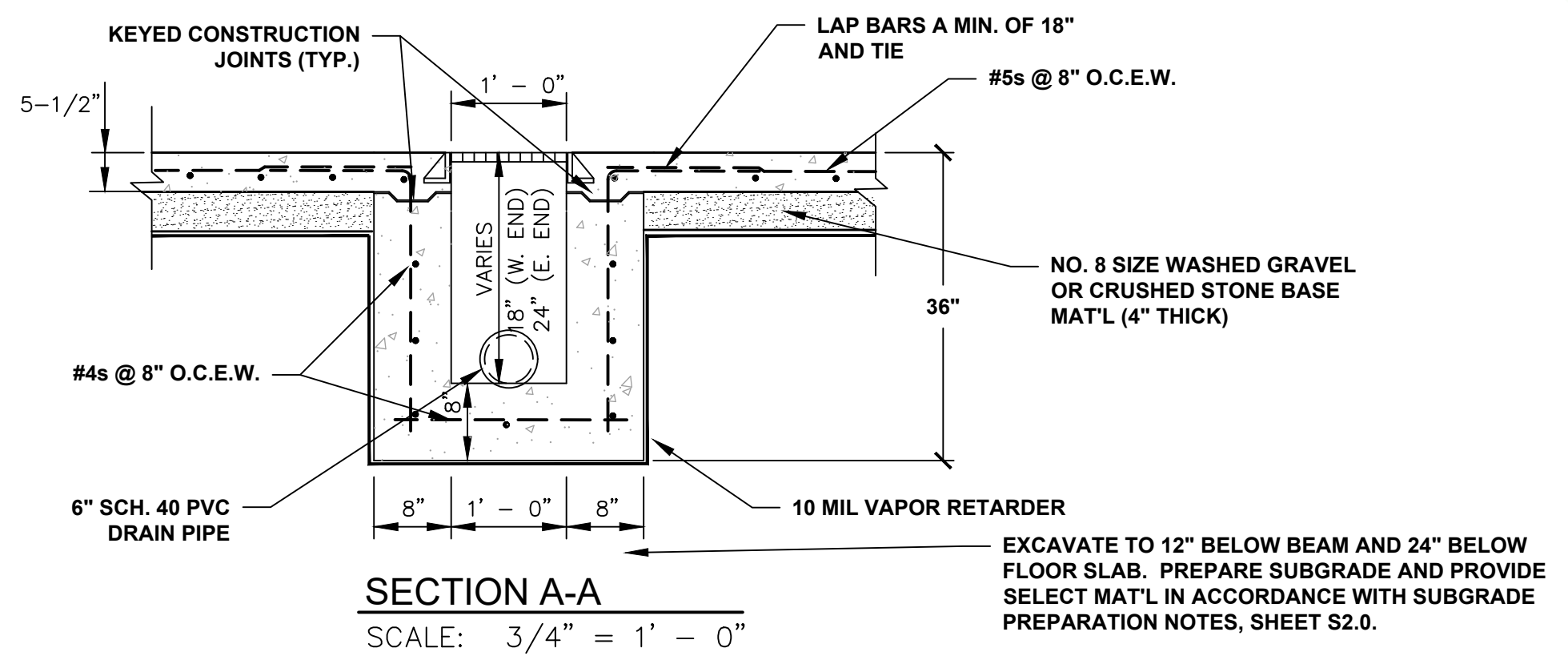
EAST/WEST WALL ELEVATION
SCALE: 3/8" = 1'-0"



SOUTH WALL ELEVATION
SCALE: 3/8" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"

BOND BEAM DETAIL
N.T.S.

VERTICAL CORE DETAIL
N.T.S.

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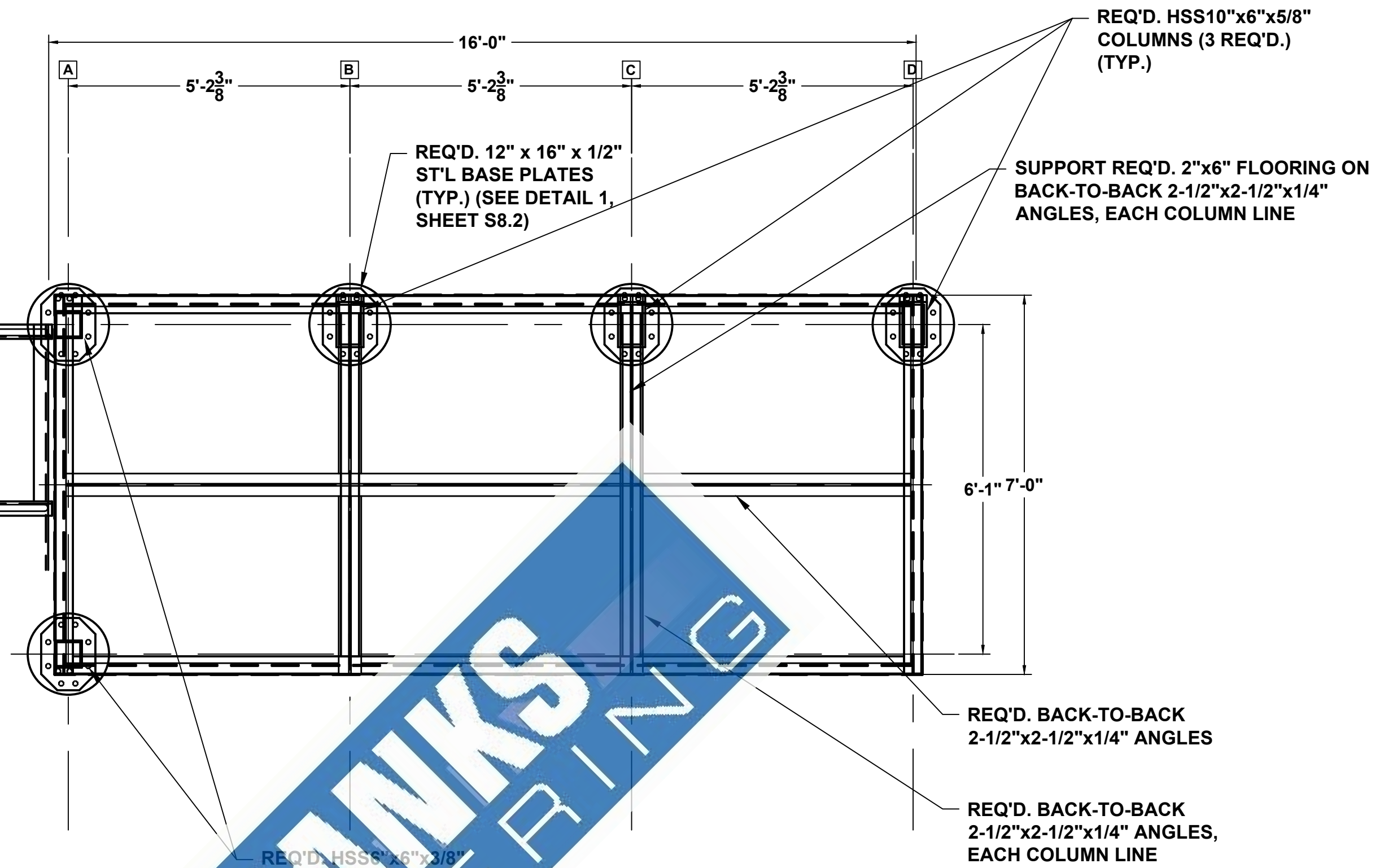
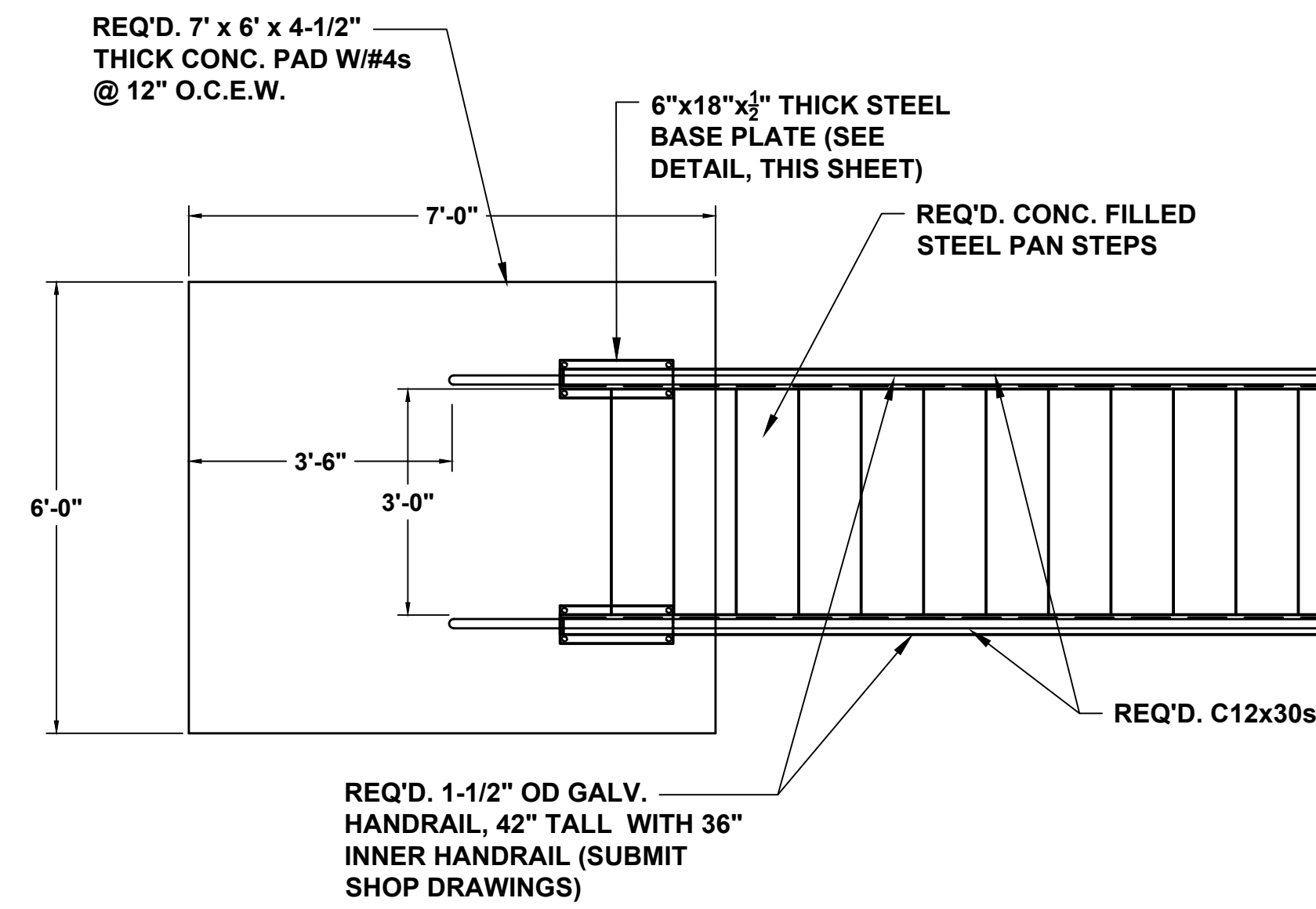
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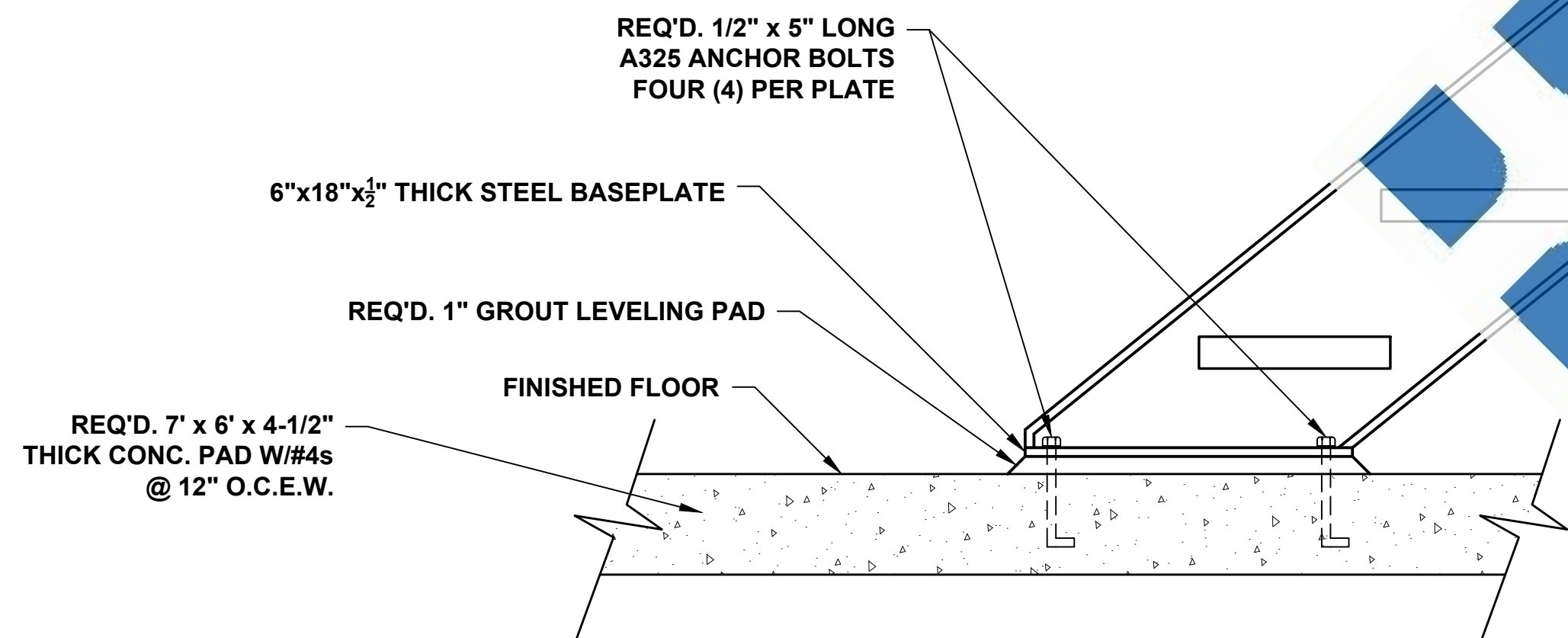
WASH RACK
PLAN AND DETAILS

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Sheet **S7.0**

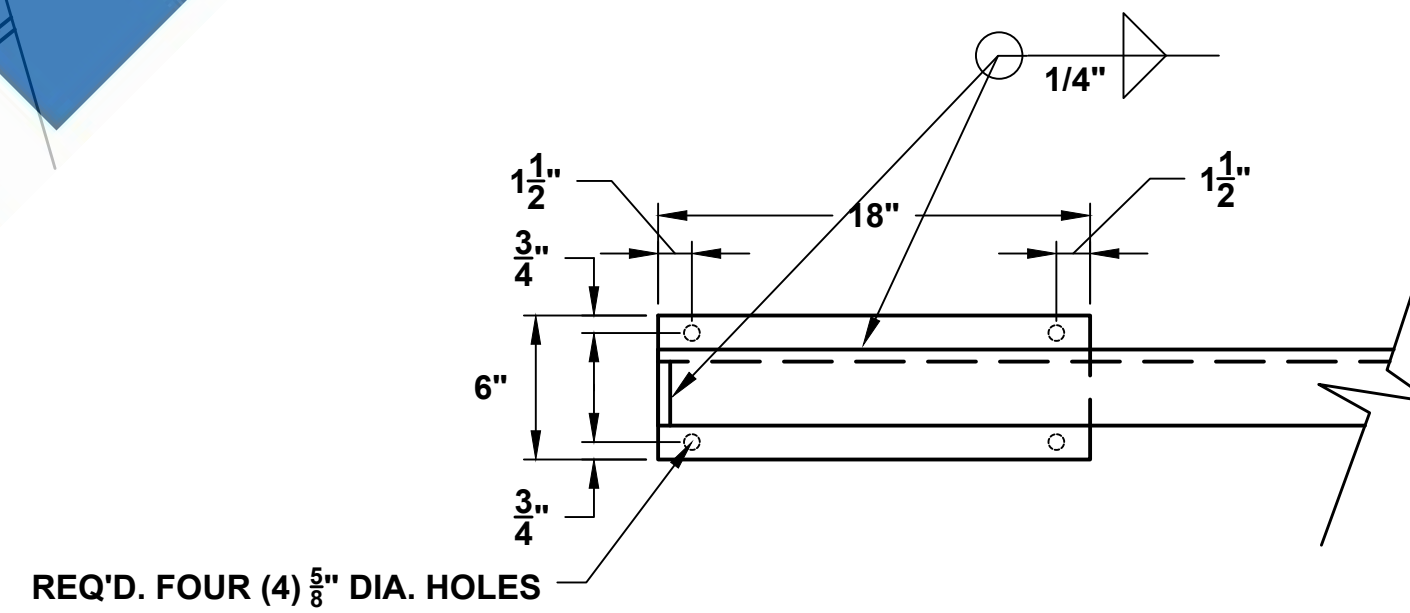
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Scale: 1/2" = 1'-0"



ANNOUNCER'S BOOTH PLAN
SCALE: 1/2" = 1'-0"



STAIR BASEPLATE DETAIL
SCALE: 1 1/2" = 1'-0"



STAIR BASEPLATE BOLT PATTERN DETAIL
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES

1. ALL STEEL COMPONENTS TO BE A36 OR 50 KSI YIELD STRENGTH, WITH THE EXCEPTION OF HSS TUBING, WHICH MUST BE 46 KSI YIELD STRENGTH MINIMUM.
2. WELDING SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.2/D1.2M-2014 GAS METAL ARC WELDING (GMAW) PROCESS.
3. ALL FASTENERS TO BE ASTM A325 STEEL UNLESS OTHERWISE NOTED.
4. ALL SURFACES, MEMBERS, AND THEIR WELDED AND/OR BOLTED JOINTS SHALL BE SMOOTH AND FREE FROM SHARP OR JAGGED EDGES.
5. CONTRACTOR SHALL VERIFY DIMENSIONS AND NOTIFY ENGINEER OF DISCREPANCIES.

OWEN
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Date	Revision	By

Designed _____
Checked _____
Drawn _____
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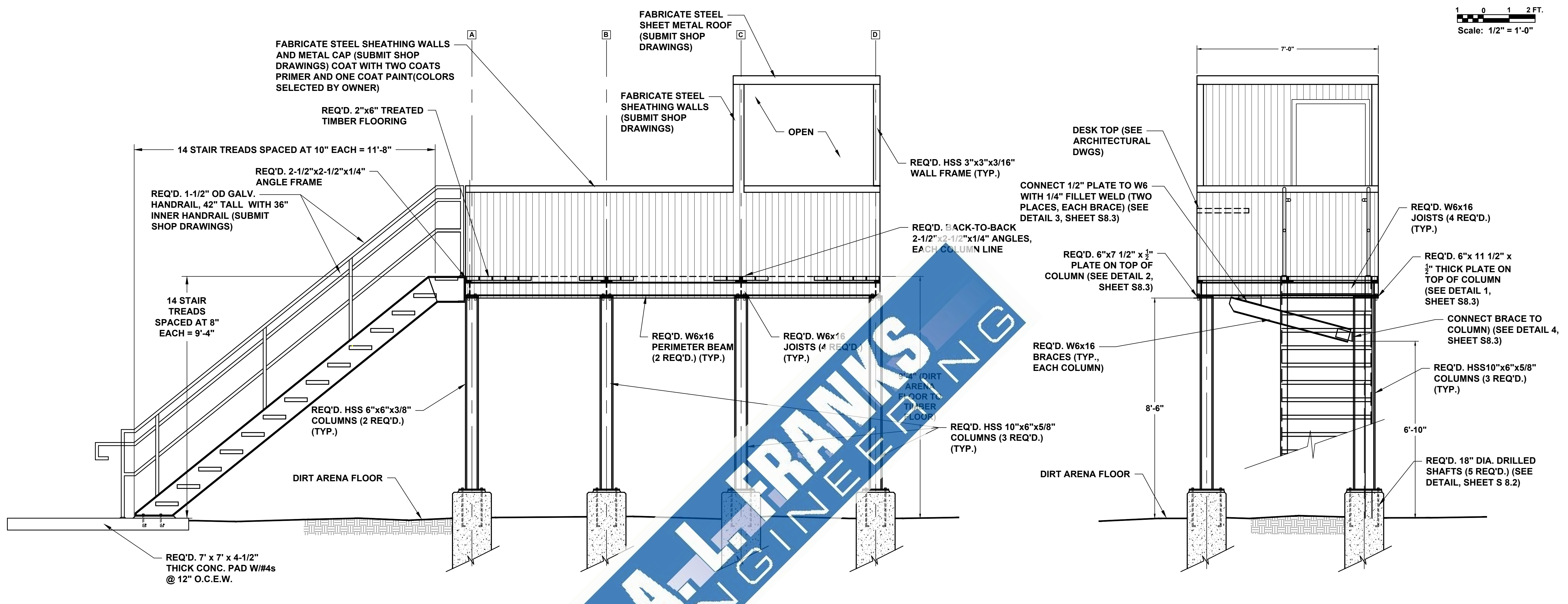
SOUTH ARKANSAS EXPO CENTER
DEL TIN HIGHWAY AR. 335
EL DORADO, ARKANSAS 71730

ANNOUNCER'S BOOTH
PLAN AND DETAILS



Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S8.0**

1 0 1 2 FT.
Scale: 1/2" = 1'-0"



GENERAL NOTES

1. ALL STEEL COMPONENTS TO BE A36 OR 50 KSI YIELD STRENGTH, WITH THE EXCEPTION OF HSS TUBING, WHICH MUST BE 46 KSI YIELD STRENGTH MINIMUM.
2. WELDING SHALL BE IN ACCORDANCE WITH ANSII/AWS D1.2/D1.2M-2014 GAS METAL ARC WELDING (GMAW) PROCESS.
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ANNOUNCER'S BOOTH SECTION
SCALE: 1/2" = 1'-0"

ANNOUNCER'S BOOTH SECTION
SCALE: 1/2" = 1'-0"

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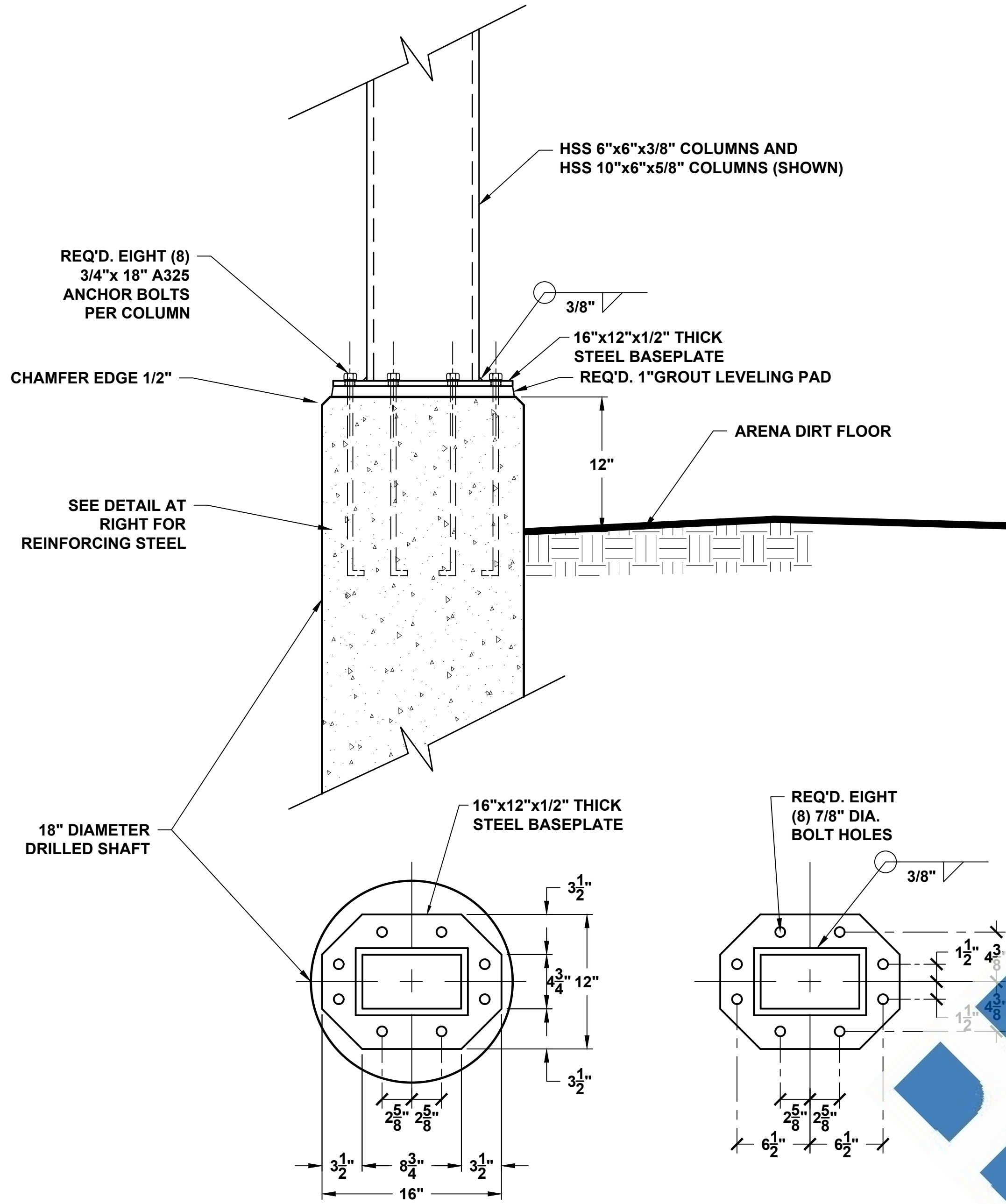
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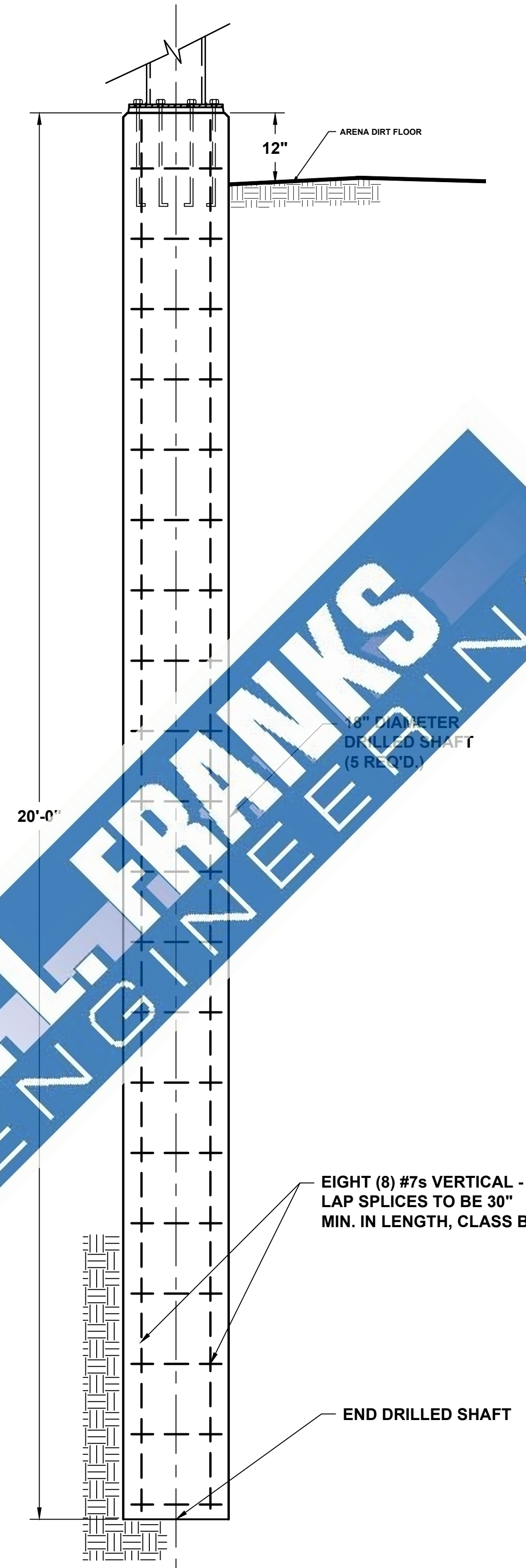
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ANNOUNCER'S BOOTH
ELEVATIONS AND DETAILS

Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S8.1**

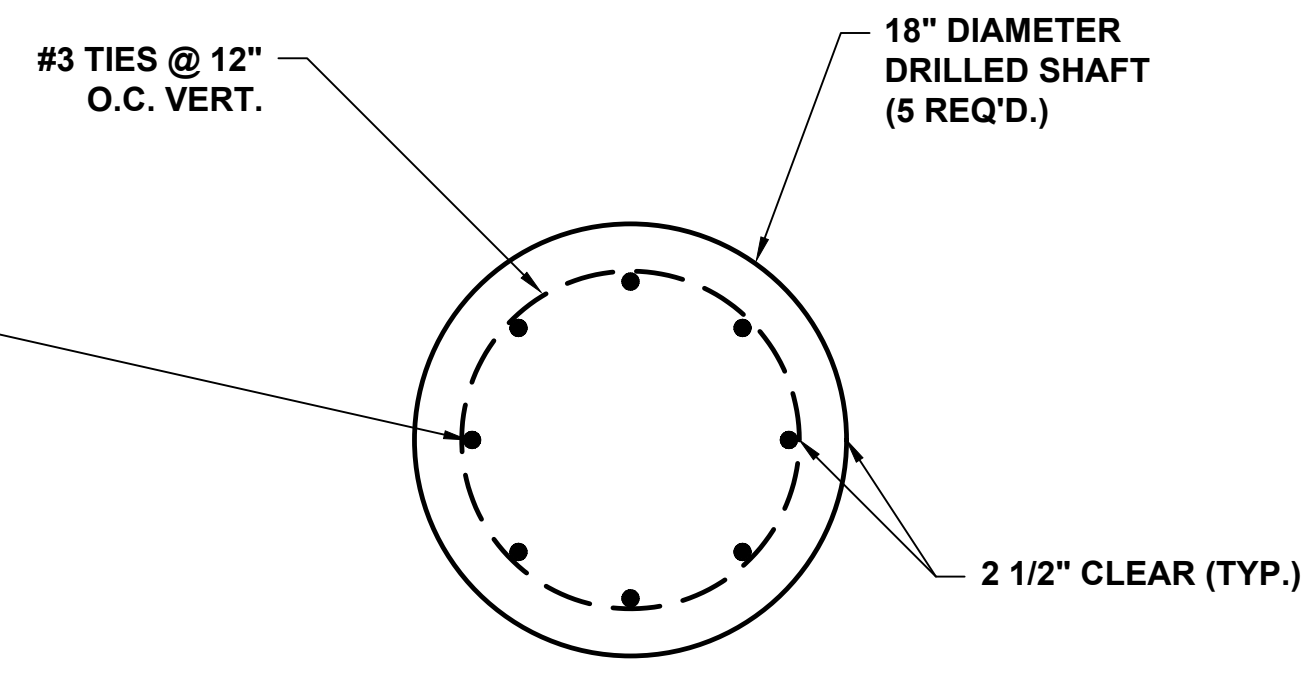


BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"
1
S8.0



DRILLED SHAFT DETAIL
SCALE: 3/4" = 1'-0"

- CAST-IN-PLACE CONCRETE**
1. CONCRETE SHALL BE PORTLAND CEMENT CONCRETE, ARDOT TYPE S(AE), 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH AIR ENTRAINMENT.
 2. CAST-IN-PLACE CONCRETE SHALL STRICTLY ADHERE TO THE PROPORTIONS ESTABLISHED IN THE MIX, CONSISTING OF THE ACTUAL MATERIALS TO BE USED DURING CONSTRUCTION. DESIGN MIX SHALL BE PREPARED AND SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO USE. MIX DESIGN PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 211 / 301 / 318.
 3. REINFORCED CONCRETE SHALL CONFORM TO ACI 318, LATEST EDITION.
 4. REINFORCING BARS SHALL BE ASTM A615 GRADE 60, EXCEPT TIES AND STIRRUPS MAY BE GRADE 40. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND SHALL BE SUPPLIED IN FLAT SHEETS. LAP FABRIC TWO MESHES AS SPLICED.
 5. REQUIRED CONCRETE COVER FOR REINFORCING BARS:
DEPOSITED AGAINST EARTH: 3"
EXPOSED TO WEATHER OR EARTH AFTER FORMS REMOVED: 1-1/2"
 6. AS SOON AS FORMS ARE REMOVED, UNDESIRABLE FINS AND OTHER PROJECTIONS SHALL BE REMOVED, OFFSETS LEVELED, AND VOID OR DAMAGED PLACES IMMEDIATELY SATURATED WITH WATER AND PREPARED WITH MORTAR OF THE SAME COMPOSITION AS USED IN THE MIX. EXPOSED SURFACES SHALL BE RUBBED WITH CARBORUNDUM STONE TO A SMOOTH FINISH FREE FROM MARKS OR HONEYCOMBS IMMEDIATELY AFTER FORMS ARE REMOVED.
 7. TESTING LABORATORY SERVICES FOR QUALITY CONTROL OF CAST-IN-PLACE CONCRETE SHALL BE PROVIDED BY THE OWNER. TESTING SERVICES SHALL INCLUDE PREPARATION AND TESTING OF CONCRETE COMPRESSION CYLINDERS, SLUMP TESTS, AND ANY OTHER TESTS DESIRED BY THE OWNER.
 8. CONCRETE SHALL BE PLACED CONTINUOUSLY, WITHOUT INTERRUPTION, IN SUCH A MANNER AS TO NOT CAUSE SEGREGATION, VIBRATING EACH LIFT. USE CHUTES OR TREMIES FOR PLACING CONCRETE WHERE A DROP OF MORE THAN FIVE FEET IS REQUIRED, OR PUMP CONCRETE INTO PLACE.
 9. DOWELS MUST BE SUPPORTED WITH BASKETS TO PREVENT SLIPPING AND/OR DISPLACEMENT.
 10. CONTRACTOR MUST SUPPORT STEEL REINFORCING WITH BRICK SUPPORTS (PREFERRED), CHAIRS, OR OTHER SUITABLE MATERIALS.
 11. CONTRACTOR SHALL APPLY A SPRAY-ON OR ROLL-ON CURING COMPOUND IMMEDIATELY AFTER PLACEMENT TO PROTECT CONCRETE FROM SURFACE CRACKING.
 12. COLD JOINTS FORMED DURING THE COURSE OF THE WORK MUST BE REMOVED AND REPLACED AT NO DIRECT PAY.



DRILLED SHAFT SECTION
SCALE: 1 1/2" = 1'-0"

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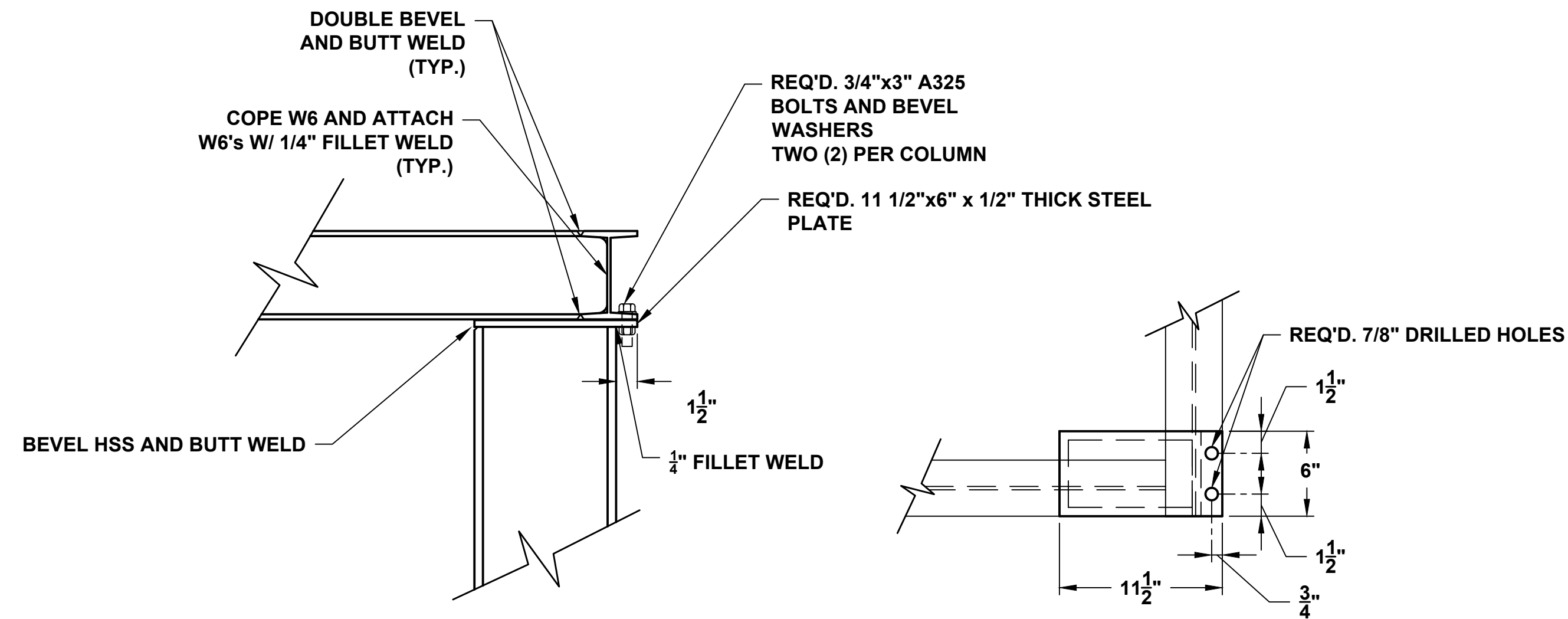
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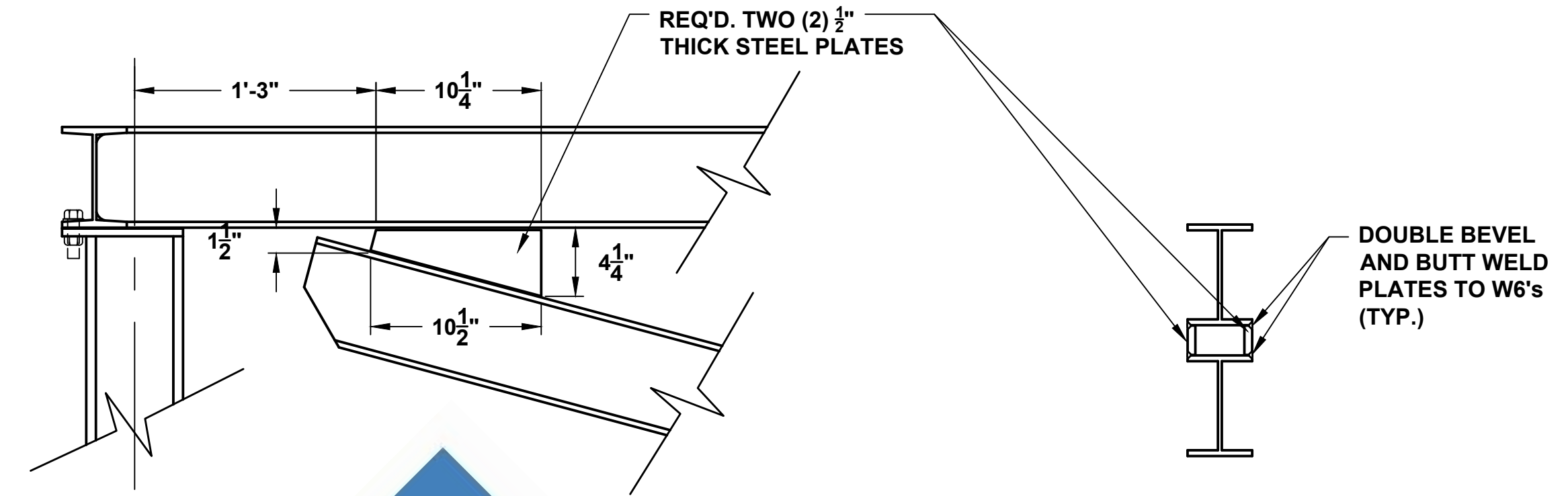
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DEL TIN HIGHWAY AR. 335
EL DORADO, ARKANSAS 71730

ANNOUNCER'S BOOTH
BASE PLATES AND SHAFT DETAILS

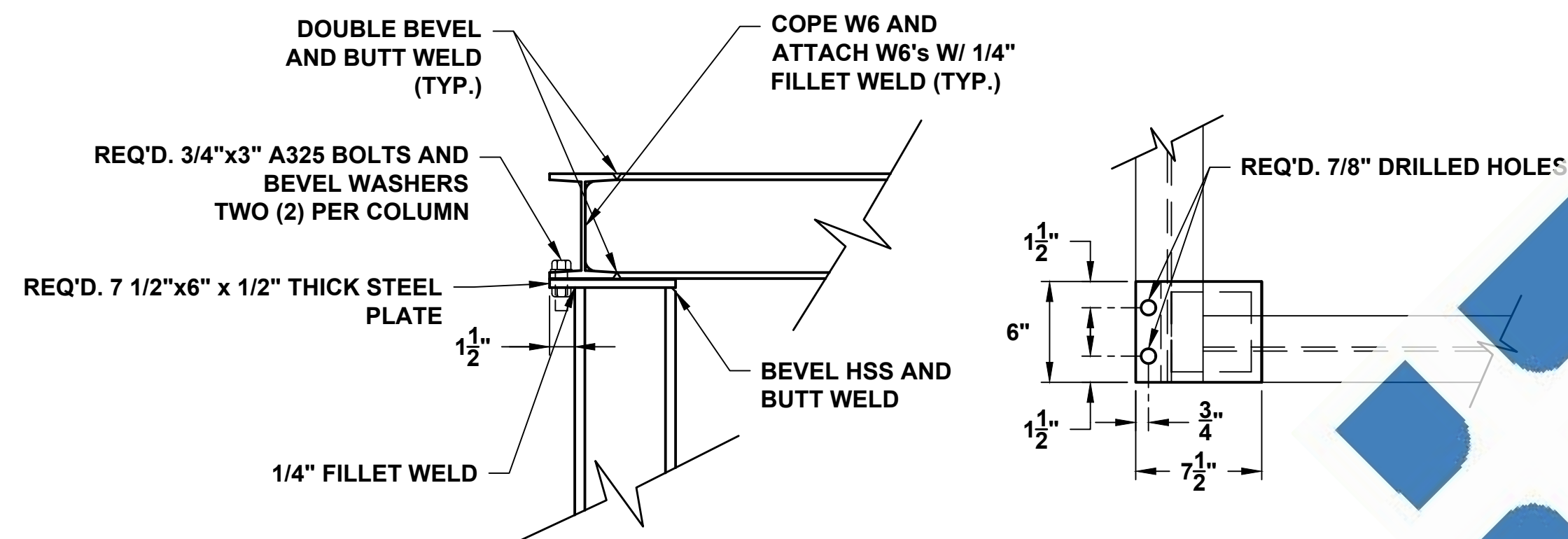
Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S8.2**



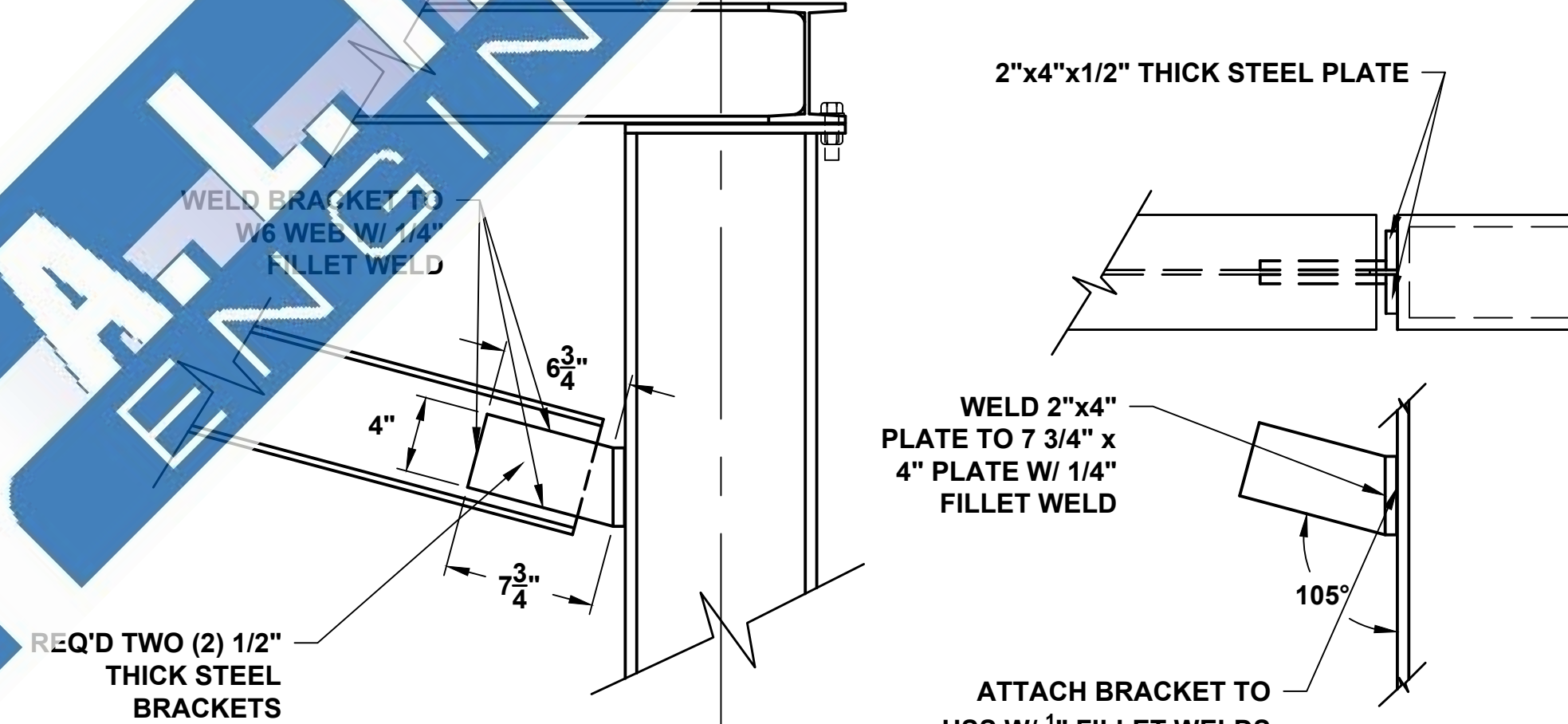
HSS 10x6 COLUMN TOP PLATE DETAIL 1
 SCALE: 1 1/2" = 1'-0"
 CONTRACTOR TO SUBMIT SHOP DRAWINGS



W6 TO W6 BRACKET DETAIL 3
 SCALE: 1 1/2" = 1'-0"
 CONTRACTOR TO SUBMIT SHOP DRAWINGS



HSS 6x6 COLUMN TOP PLATE DETAIL 2
 SCALE: 1 1/2" = 1'-0"
 CONTRACTOR TO SUBMIT SHOP DRAWINGS



W6 TO HSS 10x6 BRACKET DETAIL 4
 SCALE: 1 1/2" = 1'-0"
 CONTRACTOR TO SUBMIT SHOP DRAWINGS

GENERAL NOTES

1. ALL STEEL COMPONENTS TO BE A36 OR 50 KSI YIELD STRENGTH, WITH THE EXCEPTION OF HSS TUBING, WHICH MUST BE 46 KSI YIELD STRENGTH MINIMUM.
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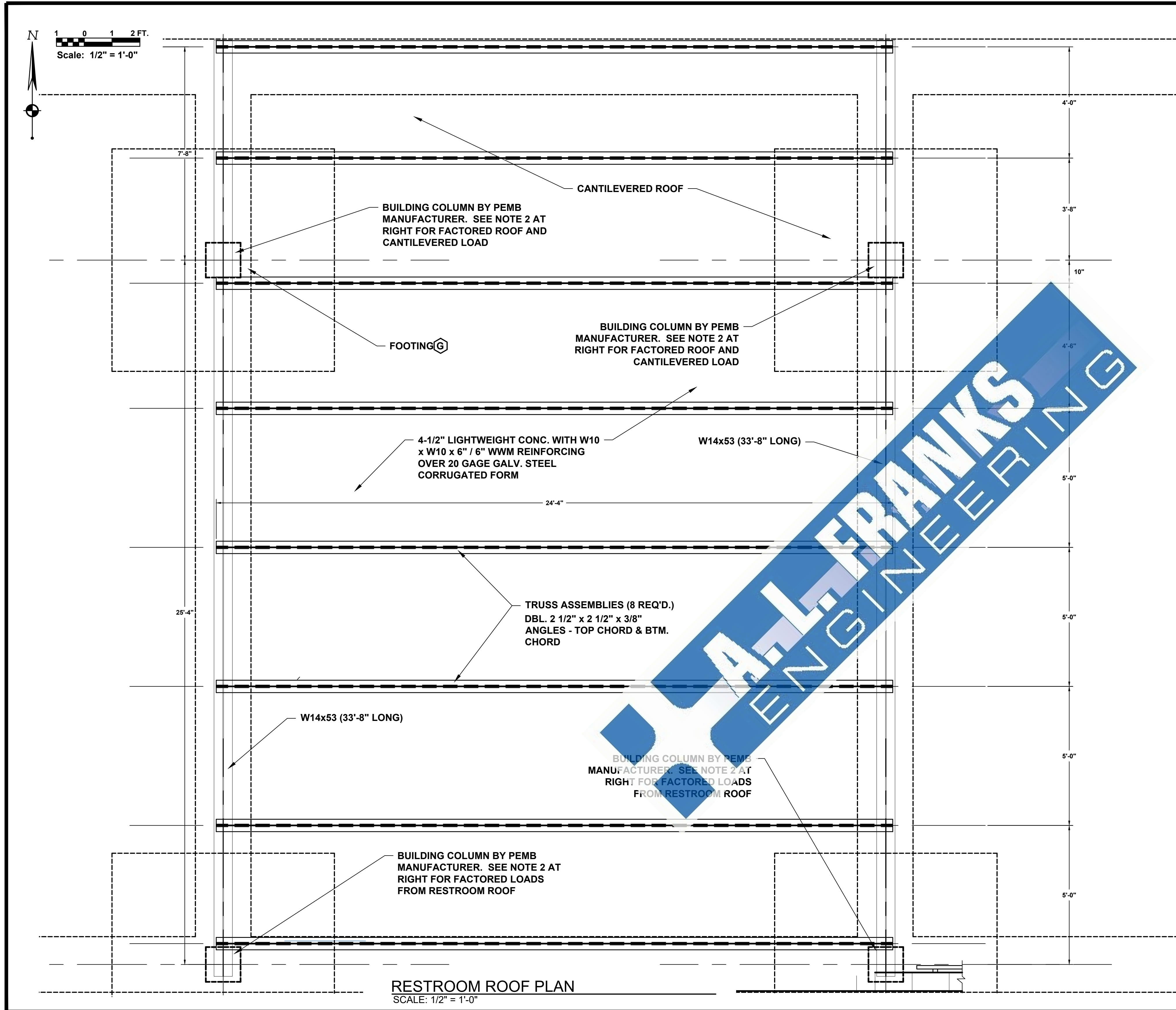
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ANNOUNCER'S BOOTH
STRUCTURAL DETAILS

Job No.: OE 2023-20
 Scale: _____
 Date: JULY 12, 2024
 Sheet **S8.3**



GENERAL NOTES

- RESTROOM ROOF IS DESIGNED FOR OCCUPANCY (MAX. LOAD 100 PSF).
- METAL BUILDING MANUFACTURER TO DESIGN COLUMNS TO SUPPORT W14x53s. FACTORED DESIGN LOAD ONTO EACH COLUMN = 41.6 KIPS. FACTORED MOMENT FROM CANTILEVERED SECTION = 169 KIP-FT.
- ALL STEEL COMPONENTS TO BE A36 OR 50 KSI YIELD STRENGTH, WITH THE EXCEPTION OF HSS TUBING, WHICH MUST BE 46 KSI YIELD STRENGTH MINIMUM.
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- CONTRACTOR SHALL VERIFY DIMENSIONS AND NOTIFY ENGINEER OF DISCREPANCIES.
- SUBMITTAL DRAWINGS REQUIRED FOR COLUMNS AND ALL CONNECTIONS, SIGNED, SEALED, AND DATED BY A REGISTERED PROFESSIONAL ENGINEERING, LICENSED TO PRACTICE IN ARKANSAS.

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A. L. FRANKS
ENGINEERING

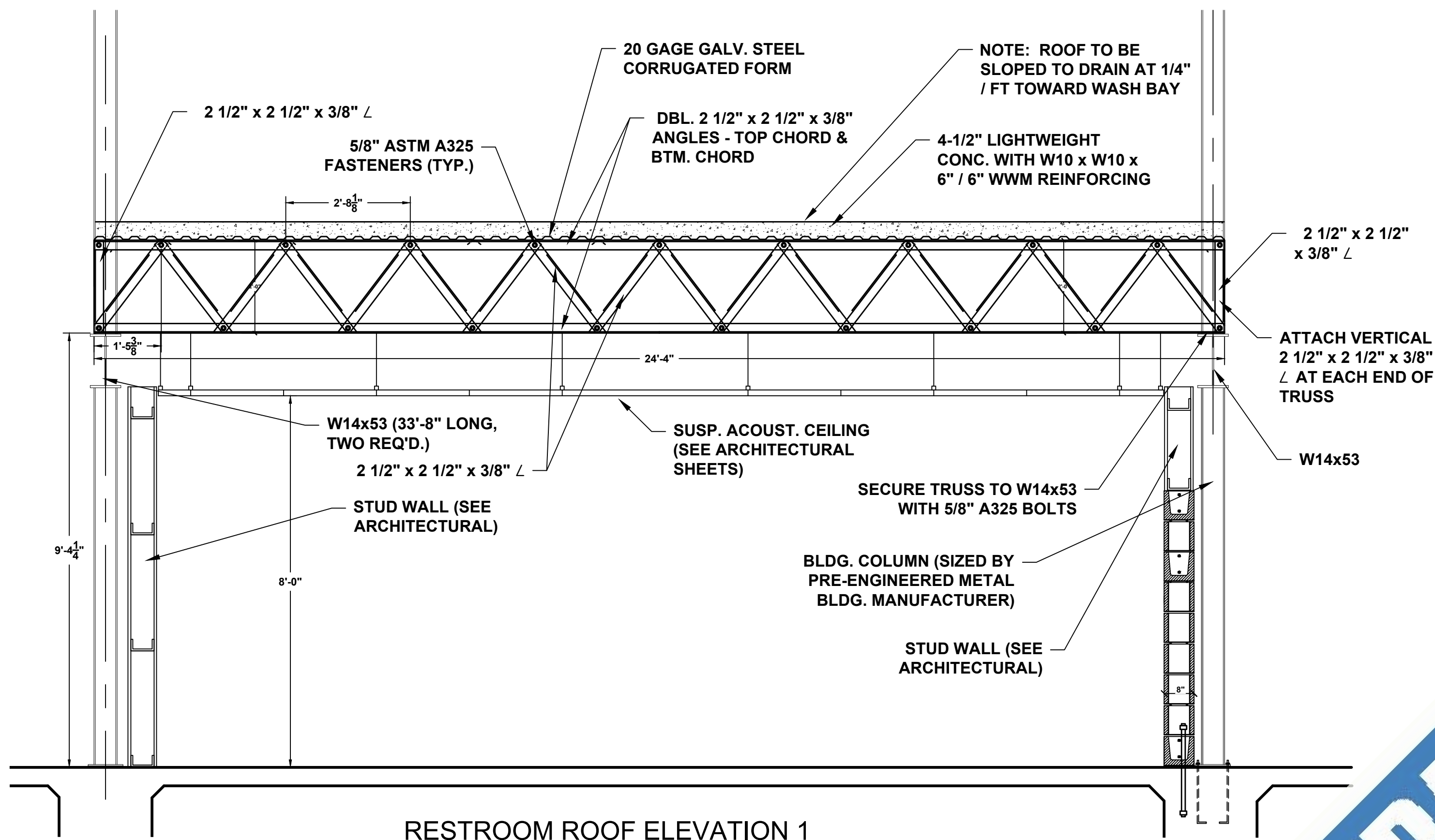
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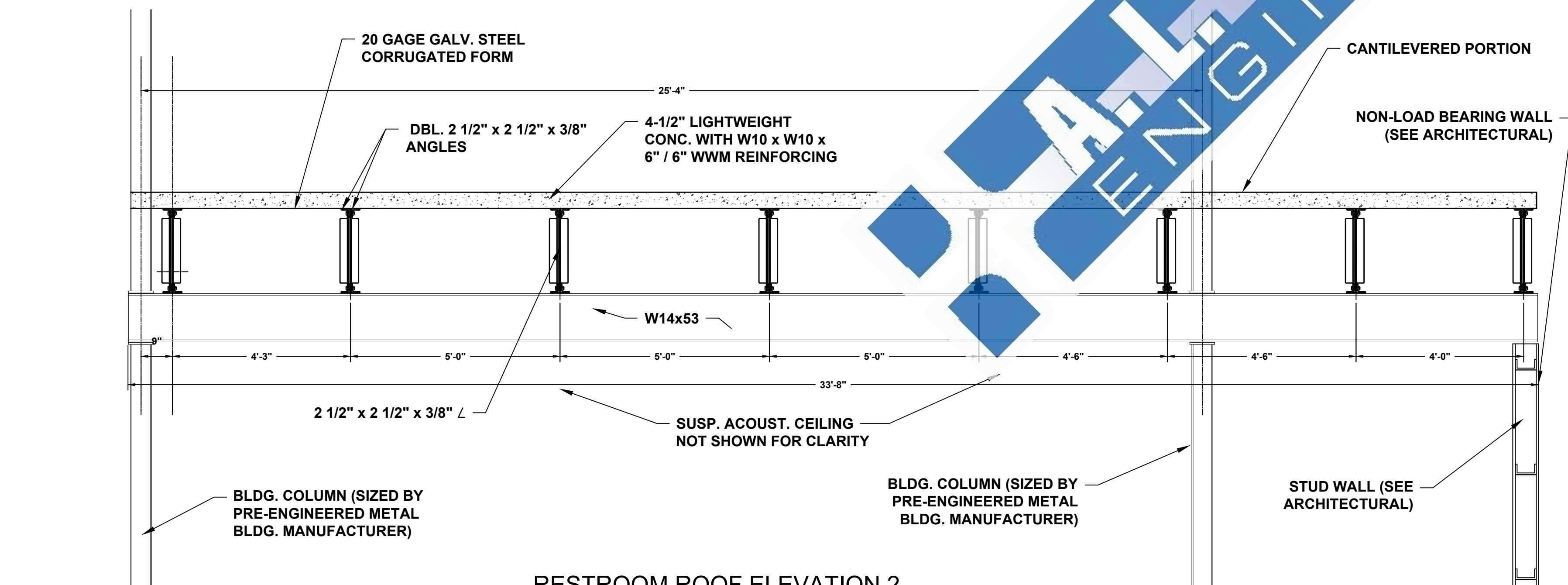
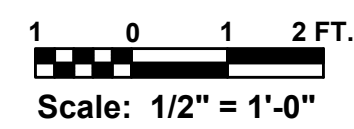
HORSE STALL ROOF
PLAN AND DETAILS

Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S9.0**

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
A. L. FRANKS
No. 38004
Exp. 12, 2024



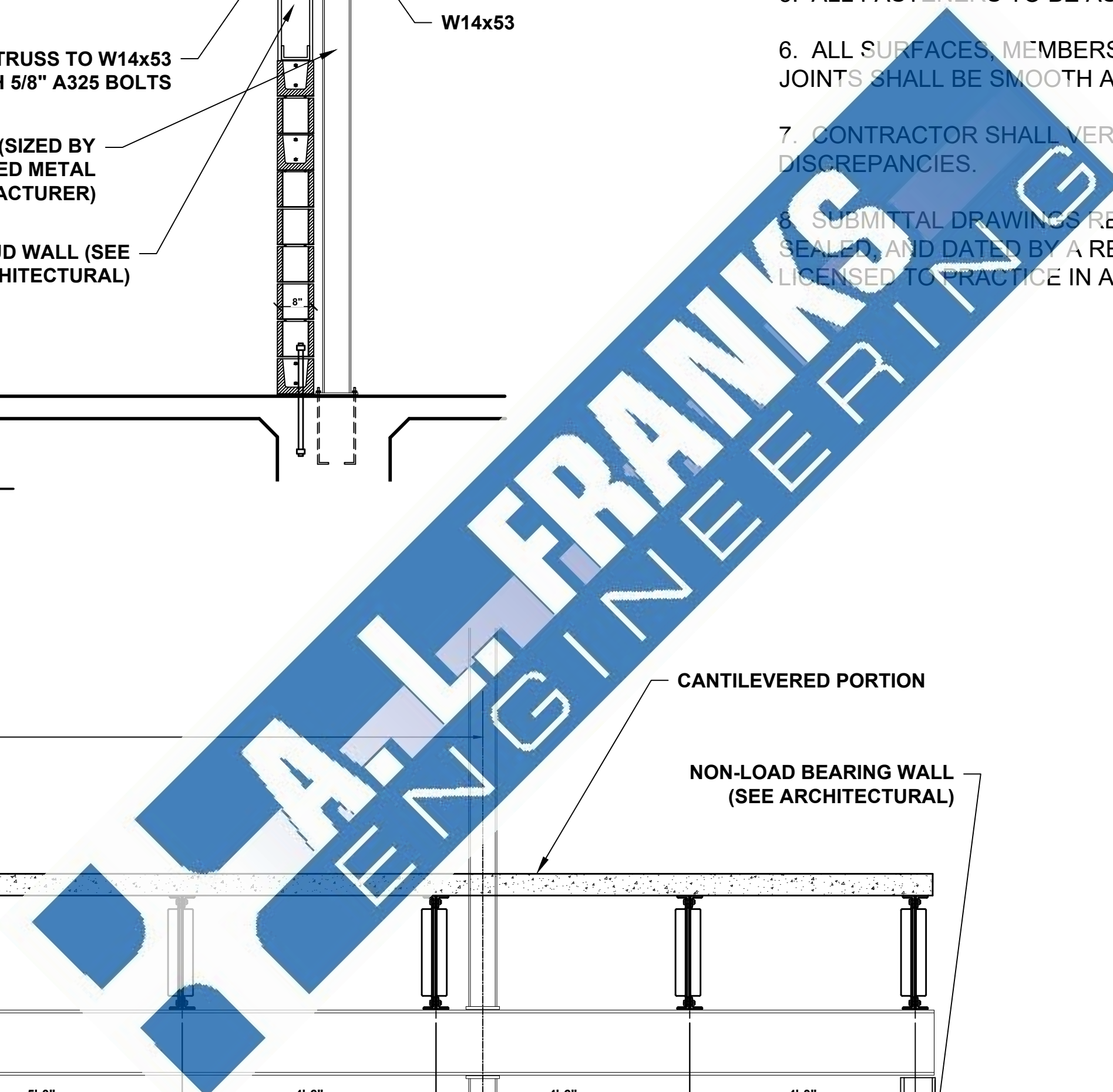
RESTROOM ROOF ELEVATION 1
SCALE: 1/2" = 1'-0"



RESTROOM ROOF ELEVATION 2
SCALE: 1/2" = 1'-0"

GENERAL NOTES

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Drawn _____
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HORSE STALL ROOF ELEVATIONS

Job No.: OE 2023-20
Scale: _____
Date: JULY 12, 2024
Sheet **S9.1**

DEL TIN HIGHWAY AR. 335
EL DORADO, ARKANSAS

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DEL TIN HIGHWAY AR. 335
EL DORADO, ARKANSAS

TECHNICAL SPECIFICATIONS

July 12, 2024



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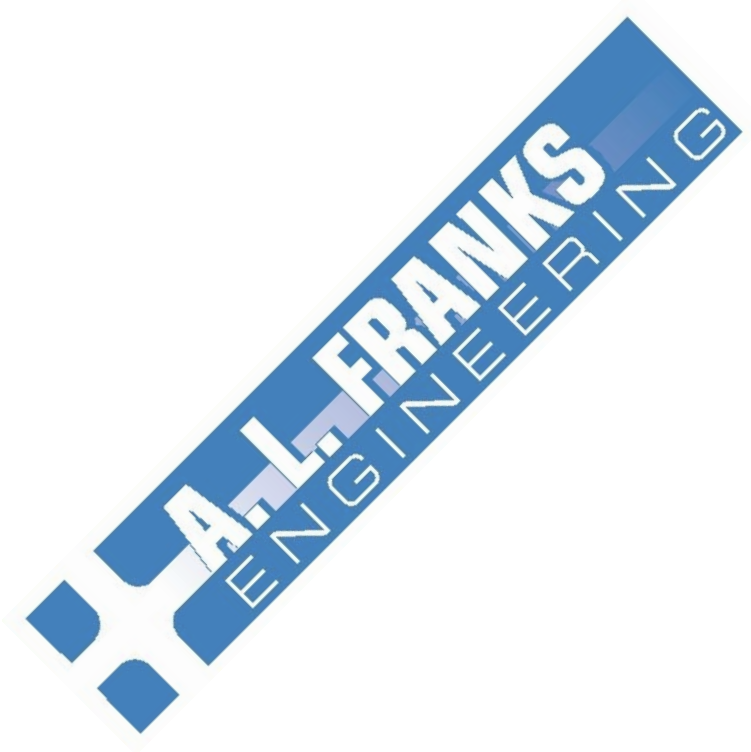


7-12-'24

Mark E. Owen, P.E.
Licensed Professional Engineer #9004
Owen Engineering of Arkansas, LLC

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- 2 Section 133419 Pre-Engineered Metal Building Systems



SECTION 13 3419 - PRE-ENGINEERED METAL BUILDING SYSTEMS

PART 1 GENERAL

This section specifies a rigid-frame-type Metal Building System. Drawings and other specification sections may apply to this section.

1.1 APPLICABLE PUBLICATIONS:

- A. American Institute of Steel Construction (AISC):
"Manual of Steel Construction".
- B. American Iron and Steel Institute (AISI):
"Cold-Formed Steel Design Manual", 1986 edition.
- C. American Society for Testing and Materials (ASTM):
 - 1. A36-88 Structural Steel.
 - 2. A446-87 Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dipped Process, Structural Quality
 - 3. A463-88 Steel Sheet, Cold Rolled, Aluminum Coated Type 2.
 - 4. A792-86 Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot-Dip Process.
 - 5. A570-88 Steel, Sheet and Strip, Hot Rolled, Structural Quality.
 - 6. A572-88 High Strength Low-Alloy Columbium-Vanadium Steels of Structural Quality.
 - 7. A307-88 Carbon Steel Bolts.
 - 8. A325-88 High Strength Bolts for Structural Joints.
- D. Underwriters Laboratories (UL): "Tests for Wind-Uplift Resistance of Roof Assemblies - UL 580".
- E. American Welding Society (AWS): "Structural Welding Code - Steel" ANSI/AWS D1.1-90.
- F. Metal Building Manufacturers Association (MBMA):
"Low Rise Building Systems Manual".

1.2 QUALITY ASSURANCE

- 1.2.1** The Metal Building System shall be designed, engineered and fabricated by a Building Manufacturer who has been regularly engaged for at least ten (10) years in the design, engineering and fabrication of the type and quality herein specified.
- 1.2.2** Unless otherwise noted, all materials in this specification shall be furnished by the Building Manufacturer.
- 1.2.3** The Building Manufacturer shall be certified for AISC's QUALITY CERTIFICATION, CATEGORY MB program. This project shall be engineered and fabricated to meet the requirements of this certification.
- 1.2.4** All structural mill sections and welded plate sections shall be designed in accordance with the AISC's Manual of Steel Construction".
- 1.2.5** All cold-formed steel structural members shall be designed in accordance with the 1986 edition AISI's "Cold-formed Steel Design Manual".

- 1.2.6 All roof and wall panels shall be designed in accordance with the AISI's "Cold-formed Steel Design Manual".
- 1.2.7 Welded connections shall comply with the American Welding Society's (AWS) "Standard Code for Arc and Gas Welding in Building Construction" for welding procedures.
- 1.2.8 All materials shall be new and unused prior to fabrication. The Building Manufacturer shall warrant the materials manufactured by it, if properly erected in accordance with the plans, specifications and erection manual furnished by it, against defects in materials and workmanship for a period of one (1) year after delivery.

1.3 RECEIVING, STORAGE AND HANDLING OF MATERIALS ON JOBSITE

- 1.3.1 All materials shall be unloaded, handled, hauled and delivered to storage by competent workmen in a manner which will prevent bends, dents, scratches or other damage. Damaged materials shall be rejected and promptly replaced. All materials shall be properly stored and protected from weather damage. All shipments must be thoroughly checked by the consignee. If shortage or damage is found, a notation must be placed on the bill of lading and must be conformed by the carrier.
- 1.3.2 **PRIMED MATERIALS:** Upon receipt, all bundles of primed material shall be stored on blocking at an angle sufficient to allow any trapped water to drain and should be protected from the weather by covers allowing air circulation. Water, ice and snow should not be allowed to collect and remain thereon.
- 1.3.3 **ROOF AND WALL PANELS:** Bundles of panels shall be inspected for moisture upon receipt. If moisture is present, dry the panels and, if possible, store them in a warm, dry place. The panel bundles shall be elevated and sloped in a manner to allow moisture to drain. Cover all bundles with a tarp or plastic, leaving airspaces for adequate air circulation.
- 1.3.4 **SKYLIGHTS:** Upon receipt, bundles of skylights shall be inspected for moisture. If moisture is present, dry the panels and store them in a shaded, dry place. The panel bundles shall be elevated and sloped in a manner to allow moisture to drain. Cover all bundles with a tarp or plastic, leaving airspaces for adequate air circulation.

1.4 ERECTION

- 1.4.1 The erection of the metal building and the installation of accessories shall be performed in accordance with the Building Manufacturer's erection drawings and erection manuals by a qualified erector using proper tools, equipment and safety practices.
- 1.4.2 Erection practices shall conform to Section 6, Common Industry Practices found in the "Low Rise Building Systems Manual", MBMA 1986.
- 1.4.3 There shall be no field modifications to primary structural members except as authorized and specified by the Building Manufacturer.

PART 2 - FRAMING

2.1 Primary framing and columns, purlins, girts, eave struts, other structural members and clips shall be factory punched for easy and rapid erection by field bolting, except where shop connections are used. Field welding will not be permitted unless specified by the Building Manufacturer and allowed by the Architect of Record or the Engineer of Record.

2.2 RIGID FRAMES

2.2.1 Rigid Frames shall be complete with baseplates and splice plates prepared for field-bolted connections. They shall consist of built-up sidewall columns of tapered or constant web depths (see drawings for allowable shape) and rafters with tapered or constant web depths as required by the Building Manufacturer's design. Interior columns may be pipe sections and located where shown on the drawings.

2.2.2 The rigid frames shall be designed as pinned base, with no moment transferred to the foundation.

2.2.3 Steel for all built-up sections shall meet as applicable the physical and chemical properties of ASTM A 572 modified to 55,000 psi minimum yield and 70,000 psi minimum tensile strength, or ASTM A 607-85, Grade 55, or ASTM A 572-88c modified to 55,000 minimum yield and 70,000 psi minimum tensile strength, or ASTM A 570-88, Grade 55.

2.2.4 Hot-rolled structural shapes shall comply with the requirements of ASTM A36-88. Pipes shall comply with the requirements of ASTM A500, ASTM A501, or ASTM A53.

2.3 ENDWALL FRAMING

The endwall columns and beams shall consist of cold-formed "C" sections, hot-rolled sections or builtup section meeting their respective material specifications.

2.4 SECONDARY FRAMING STEEL

2.4.1 Steel used to form the "Z" and "C" shaped purlins, girts and eave struts shall be at least 8" deep and not less than 16 gauge, 55,000 psi minimum yield steel comparable to or exceeding the requirements of ASTM A570-88.

2.4.2 When designed as continuous beams, the purlins and girts shall be checked for the combined bending and shear stresses at the frame centerline and at the end of their laps.

2.5 BRACING

2.5.1 Locate bracing to remove horizontal wind and seismic forces. Refer to the Plans for the permissible locations. The bracing may be either:

1. Moment Portals
2. When permitted, cables of ASTM A475, 7 strand, Extra-High-Strength material, 1/4" diameter minimum.
2. ASTM A36 rods, 1/2" diameter minimum.
3. ASTM A36 angle, pipe or tube.

2.6 STRUCTURAL PAINTING

- 2.6.1 All structural steel and light gauge steel members shall be cleaned of loose mill scale, dirt and other foreign material by the procedures of SSPC-SP2 and then be given a one mil coat of red oxide primer meeting or exceeding the performance requirements of Specification SSPC 15-68T (replaces and is equivalent to Federal Specification TT-P-636D). The primer is not intended to be a finish coat.
- 2.6.2 Abrasions caused by handling and erection shall be touched-up by the contractor performing field touch-up. Use the same primer used by the Building Manufacturer.

2.7 STRUCTURAL BOLTS

All field connections shall be made with black, unpainted ASTM A325 bolts, nuts and washers as shown on the Building Manufacturer's erection drawings. All bolts shall be installed and tightened in accordance with the "Specification for Structural Joints Using ASTM A325 or A490 Bolts".

2.8 ANCHOR BOLTS AND FOUNDATION DESIGN

- 2.8.1 Anchor bolts shall be ASTM A307 and installed in accordance with the Anchor Bolt Plan furnished by the Building Manufacturer.

PART 3 - DESIGN CRITERIA

- 3.1 All code references are to the 2006 International Building Code (IBC) and Minimum Design Loads for Buildings and Other Structures (ASCE/SEI 7-10).

- 3.1.1 Combinations of loads shall be in compliance with ASCE/SEI 7-10.

- 3.1.2 Risk Category of building is IV (Essential Facility).

- 3.2 **ROOF LOADS** shall be applied in compliance with ASCE/SEI 7-10 (Roof Loads and Snow Loads), and shall not be less than:

1. **DEAD LOAD:** Weight of all building components furnished by the metal building system manufacturer.
2. **ROOF LIVE LOAD** shall be as specified in ASCE/SEI 7-10 Sec. 4.8.2.
3. **ROOF SNOW LOAD** shall be determined using:
 $P_f = P_g * C_e * I$
Ground Snow Load P_g , (ASCE/SEI 7-10, Section 7.2) = 5 psf
Snow Exposure Factor, C_e (ASCE/SEI 7-10 Table 18) = 1.0
Snow Importance Factor, I (ASCE/SEI 7-10 Table 20) = 1.20
4. **COLLATERAL AND MECHANICAL LOADS** = 3.00 psf.
 - A. This includes the weight of non-structural material and equipment supported by the structure, including (but not limited to), ductwork, conduits, sprinkler and utility piping, suspended ceilings, lighting and other building accessories.
 - B. This load shall be added to DEAD LOAD and combined with ROOF LIVE

LOAD, ROOF SNOW LOAD, WIND LOAD and SEISMIC FORCES in compliance with ASCE/SEI 7-10.

3.3 WIND LOADS shall be applied in compliance with ASCE/SEI 7-10 and shall not be less than:

1. BASIC WIND SPEED V, (SBC Figure 1205) = 120 mph, 3-sec. gust
2. WIND IMPORTANCE FACTOR, I = 1.00
3. This building is Greater than 100 miles from a hurricane coast line.

3.4 SEISMIC FORCES

This building shall be designed and constructed to resist the earthquake effects determined from ASCE/SEI 7-10.

1. The seismic design category shall be C.

PART 4 - ROOF PANELS AND FINISHES

4.1 ROOF PANEL DESCRIPTION

4.1.1 Basis of design; "McElroy Metal" Multi-Rib with color-coated exposed fasteners, 36" wide coverage with major ribs at 12" on center. Galvanized steel sheet, minimum 24 gage core steel, roll formed. 36" wide x 2" high. Ridge assembly shall be designed to permit thermal movement. Factory punched at ends to match holes in eave members. Designed to fasten to supports with self-drilling, self-sealing exposed fasteners. Single piece from ridge to eave. Trim members shall be same material and gage with same finish as roof panels. Finish shall be Kynar 500. Color shall be selected by Owner from range of colors including premium colors. Structural fasteners shall be No. 12-14x1" self-drilling ZAC screws with 5/8" OD steel backed neoprene washers.

4.2 ROOF PANEL FINISH

4.2.1 Painted GALVALUME®: GALVALUME® used as a substrate for factory applied baked on paint shall conform to ASTM A792-89 with a coating class of AZ 50 or heavier, minimum spangle, chemically treated and lightly oiled, as specified by the coater.

4.2.2 The paint system shall be applied as follows: Top coat shall consist of primer .20-.25 mils thick and a top coat .70-.80 mil thick, for total film thickness of 1 mil. The reverse coat shall consist of a primer .20-.25 mil thick and a wash coat backer .30-.40 mil thick, for a total film thickness of .50-.65 mil.

4.3 FINISH WARRANTY

Aluminum-zinc alloy-coated panels shall be free of manufacturing defects and shall be warranted against perforation due to corrosion caused by normal atmospheric exposure, rupture or structural failure for a period of twenty (20) years from the effective date. Submit with the proposal, two (2) sample copies of the warranty with its terms and conditions clearly stated.

4.4 STANDING SEAM PANEL CLIPS

4.4.1 NOT USED

4.4.2 NOT USED

4.5 UL90 WIND UPLIFT RATING

Metal roof panels shall be class UL90 in accordance with Underwriters Laboratories' "Tests for Wind-Uplift Resistance of Roof Assemblies - UL 580" and shall be listed in the latest edition of the Underwriters Laboratories' Building Materials Directory".

PART 5 – PRE-FINISHED WALL PANELS AND FINISH

5.1 WALL PANEL

A. Wall panels, purlin bearing not required:

1. Basis of design: R-Panel (McElroy Metal, Inc.); 36" wide coverage with major ribs formed at panel side laps, for field attachment with self-drilling fasteners.
2. Galvanized steel sheet, minimum 26 gage steel, roll formed.
3. Similar finish as the roof panels.
 - a. Silicone Modified Polyester: Consisting of a nominal 0.20 to 0.30 mil dry film thickness primer and a nominal dry film thickness of 0.7 to 0.8 mil color coat for a total of 0.9 to 1.1 mil total system dry film thickness
4. Provide sheet trim piece at the base of the wall panel.

B. Wall panel accessories:

1. Provide manufacturer's standard trim and accessories and other items essential to completeness of wall system.
2. Contiguous flashings shall be factory fabricated by panel manufacturer from 24 gauge nominal thickness G90 galvanized steel with textured pre-finished factory applied coating to match panels.

5.2 PANEL LENGTH

All wall panels shall be continuous from sill to roof line except where lengths become prohibitive for handling purposes.

5.3 GUTTER, RAKE AND WALL TRIM

5.3.1 Exterior gutters shall be 24 gauge, G90 galvanized or aluminum-zinc alloy coated steel pre-painted. Color coating system shall be silicone polyester topcoat over a polyester washcoat primer for the exterior and minimum of a polyester washcoat primer for the unfinished side equal to Dexstar 850 system with a 20 year warranty.

5.3.2 Downspouts shall be 28 gauge galvanized or aluminum-zinc alloy coated steel with a pre-painted finish.

5.3.3 Standard rake trim shall be 26 gauge, G90 galvanized or aluminum-zinc alloy coated steel

pre-painted. Color coating shall be as described in Paragraph 5.7.1 above. If the roof is a Standing Seam or Loc-Seam system, the rake shall be attached to the endwall material with a slip joint, allowing the rake to expand and contract with the roof system.

- 5.3.4** All gutter and downspout joints, rake flashing laps, ridge flashing laps, doors, windows and louvers shall be sealed with caulk. It shall meet or exceed the requirements of Federal Specification TT-S-00230C, Type II, Class A.

6.0 ROOF PANELS

- A. Roof panels rated for purlin bearing (all facilities EXCEPT for reception building):
1. Basis of design: R-Panel (McElroy Metal, Inc.); 36" wide coverage with major ribs formed at panel side laps, for field attachment with self-drilling fasteners.
 2. Galvanized steel sheet, minimum 26 gage core steel, roll formed. Galvalume steel sheet conforming to ASTM A792, AZ50 coating for painted finish. Note: underside of panel shall have a white backer finish.
 3. Panels to be 36" wide x 1-1/4" high.
 4. Ridge assembly shall be designed to allow thermal movement.
 5. Factory punched at ends to match holes in eave members.
 6. Single piece from ridge to eave if possible.
 7. Trim members: Form from same material and gage and with same finish as panels, or color as selected by Owner.
 8. The roof system shall be tested and certified to meet Underwriters Laboratory UL 90 wind uplift rating with supports at 5'-0" on center. The UL 90 is a requirement for this project.
 9. Panel fasteners: Self-tapping screws and other corrosion-resistant fasteners recommended by metal panel manufacturer. Exposed fasteners shall be provided with EPDM or neoprene gaskets, with heads matching color of metal panels by means of factory-applied coating.
 10. Joint sealers: Manufacturer's standard or recommended liquid and preformed sealers and tapes, and as follows:
 - a. Tape sealers: Manufacturer's standard non-curing butyl tape, AAMA 809.2.
 - b. Concealed Joint Sealant: Non-curing butyl, AAMA 809.2.
 11. Finish: Silicone Modified Polyester: Consisting of a nominal 0.20 to 0.30 mil dry film thickness primer and a nominal dry film thickness of 0.7 to 0.8 mil color coat for a total of 0.9 to 1.1 mil total system dry film thickness.
 12. Color to be selected from manufacturer's full range of colors including premium colors.
 13. Acceptable panel design: MBCI, "PBR metal panel (R Panel)".
- B. Roof panels for watertightness (Reception Building only):
1. Basis of design: MasterLok-FS Roof Panels (McElroy Metal); 24" wide

coverage with major ribs formed at panel side laps, for field seaming using electrically operated seaming machine.

Note, panel shall be rated for 2" in 12 slope.

2. Galvanized steel sheet, minimum [24] gage core steel, roll formed.
3. [24] inches wide x 3 inches high,
4. Ridge assembly designed to allow thermal movement.
5. Factory punched at ends to match holes in eave member.
6. Designed to fasten to supports by means of thermally responsive panel clips.
7. Single piece from ridge to eave, if possible.
8. Trim members: Form from same material and gage and with same finish as panels.
9. The Roof System shall be tested and certified to meet Under Writer's Laboratory UL 90 Wind Uplift rating with supports at 5'-0" o.c. The UL 90 is a requirement for this project.
10. Finish: KXL pre-painted finish, ceramic pigmentation with polyvinylidene fluoride.
11. Color selected from manufacturer's full range of colors including premium colors.

CONTRACTOR NOTE: SUBMITTALS REQUIRED

10.3 SUBMITTALS

- A. **Product Data:** Submit manufacturer's product information, specifications and installation instructions for building components and accessories.
- B. **Shop Drawings:** Submit four (4) sets of complete erection drawings showing anchor bolts settings, sidewall, endwall, and roof framing, transverse cross sections, covering and trim details, and accessory installation details to clearly indicate proper assembly of building components. Drawings shall clearly show shop and field welded connections, including location, size and extent of welding. Oversights and inaccuracies in shop drawings are the responsibility of the Contractor, notwithstanding approval of said shop drawings.
- C. **Certification:** Submit written Certification prepared and signed by a Professional Engineer, registered to practice in the State of Arkansas verifying that the design of the entire building meets indicated loading requirements and codes of authorities having jurisdiction.

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End of Section 13 3419#