

ADDENDUM #1

DATE: October 20, 2023

PROJECT: Site Work for Barnyard Ride PROJECT #: 22433

LOCATION: Aberdeen, South Dakota

OWNER: City of Aberdeen Parks, Recreation and Forestry Department

CONSULTANT: Confluence

CONTACT: Chad Kucker
440 E 8th Street, Suite 121
Sioux Falls, SD 57103
ckucker@thinkconfluence.com
605-366-8901

BID SUBMISSION: Bids will be received until 2:00 p.m. on Tuesday October 31, 2023, and opened publicly at the office of the Parks and Recreation Board at 225 Third Avenue Southeast, Aberdeen, South Dakota.

This Addendum forms a part of the Contract Documents and is issued prior to receiving bids for the project. The addendum modifies the original bidding documents dated October 11, 2023 with amendments and additions noted below. The bidder shall note receipt and make acknowledgement of this addendum on the Bid Proposal, incorporating these provisions in the bid. All items in conflict with this addendum are hereby deleted.

This Addendum consists of 2 page(s), not including attachments.

ATTACHMENTS: Revised Foundation Plan, sheet S1 dated 10/18/2023.

Project Manual

Instructions to Bidders

B-9. TIME OF COMPLETION. Add the following:

Substantial Completion shall be defined as completion of the following items:

- Completion of concrete included on Foundation Plan S1, except for the stamped concrete reinforced slab.
- 28-day concrete cure-time on foundations.
- Completion of equipment shed (excluding painting).
- Completion of 3-phase primary power and power panel on shed and ready for Zamperla to make final connections to ride.

Final Completion includes all remaining work by Contractor to provide a project that can be open and occupied for public use.

Coordination with Owner provided work. Owner has contracted directly with Zamperla for installation of the ride. Installation is expected to take 1 to 3 working days and will occur between April 30, 2024 and May 31, 2024. Contractor shall cooperate with Zamperla to minimize conflict and facilitate ride installation.

Drawings

Sheet L500, detail A3. Add the following Note: Aluminum sign panels and wood backer to be provided and installed by Owner. Contractor to provide fence posts for sign mounting.

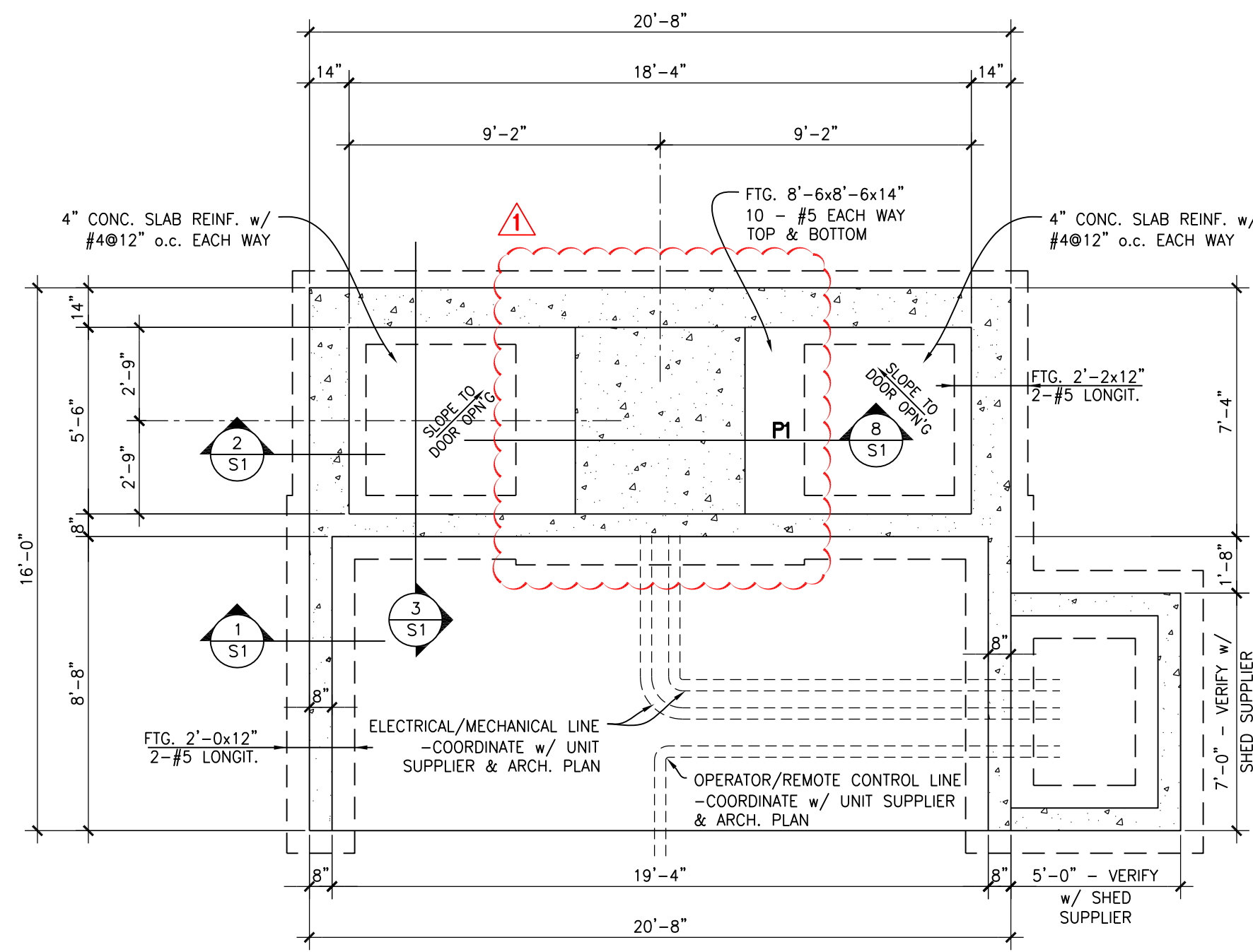
Sheet L500, detail C1. Add the following Note: Umbrella Shade Structure to be furnished by Owner for contractor installation.

Sheet S1. Replace drawing sheet S1 with revised sheet S1 dated 10/18/2023.

End of Addendum #1

GENERAL STRUCTURAL NOTES

- Design Codes Used:
IBC 2021
ACI Concrete Code
AISC Code-ASD
- Design Loads:
Roof Snow Load: $P_f = 42 \text{ PSF} + \text{Drift (Balanced)}$
Unbalanced snow load as per ASCE 7-16 Section 7
 $P_g = 50 \text{ PSF}$
 $C_e = 1.0$
 $C_t = 1.2$
Live Load: Public 100 PSF
 $V_{ULR} = 115 \text{ MPH Basic Wind Speed}$
Wind Load: Risk Category = II
Wind Exposure C
Internal Pressure Coefficient ± 0.18
- Design Stresses Used:
Concrete:
- Slabs on Grade 4500 PSI @ 28 days (air entrained)
- Footings and Foundation Walls 4500 PSI @ 28 days (air entrained)
- Exterior exposed 4500 PSI @ 28 days (air entrained)
 $f'_m = 1500 \text{ PSI}$
Steel:
- W Shapes $F_y = 50 \text{ KSI (ASTM A992)}$
- Tubes $F_y = 46 \text{ KSI (ASTM A500 Grade B)}$
- Angles, Channels, Bars $F_y = 36 \text{ KSI (ASTM A36)}$
- Pipes $F_y = 35 \text{ KSI (ASTM A53)}$
Reinforcing Steel 60 KSI (ASTM A615-60)
Soil Bearing Pressure 1500 PSF (Assumed, Verify w/ Geotechnical Engineer's review of Excavation)
- CONCRETE COVERAGE for reinforcing shall be as follows:
Footings 3 inches
Columns and Piers 1 1/2 inches
Slabs on Grade midheight for a single layer
Walls 1 1/2 inches @ exterior
3/4 inch @ interior
3/4 inch unless noted
Structural Slabs PROVIDE BAR SUPPORTS AND SPACERS in accordance with the ACI Detailing Manual.
- REINFORCING STEEL to be bent and placed in accordance with ACI code. All splices to be 38 db for #6 bar or smaller, 48db for #7 bar and larger.
- FOOTINGS to rest on undisturbed soil or engineered backfill. It is recommended that the Soils Engineer inspect soil conditions prior to construction. All walls and piers to center on footing unless otherwise noted. All footing elevations are given to the top of footings.
- FOUNDATION BACKFILL shall be as recommended by a Geotechnical Engineer. If there is no Geotechnical Engineer, use pit-run sand with 6% maximum passing the #200 sieve. Compact in 8" lifts to 95% of maximum dry density as measured by the standard proctor test.
- ALL FOUNDATION WALLS to be laterally supported before backfilling. Vertical construction joints to be keyed.
- OPENINGS in concrete FOUNDATION WALLS shall be reinforced with 2-#5 bars each side, extending 2'-0" past the face of the opening unless otherwise noted.
- FOUNDATIONS SHALL BE BUILT from approved, fully dimensioned shop drawings coordinated with construction documents and field conditions. Foundation shop drawings shall consist of the anchor bolt setting plan, concrete mix design, and concrete reinforcement plan with wall & pier dimensions. All subsequent shop drawings shall be coordinated with approved foundation shop drawings.
- SHOP DRAWINGS
a. Submit electronic copies of the following shop drawings to the architect/engineer for review prior to fabrication.
1. CONCRETE REINFORCING and mix designs for each class of concrete.
2. STRUCTURAL STEEL
3. ANCHOR BOLT SETTING PLAN
- PORTLAND CEMENT to be ASTM C150, Type 1 & 1A.
- CONCRETE to be in accordance with ACI 301. Maximum shale content shall not exceed 0.5% for exposed concrete.
- CONTROL AND CONSTRUCTION JOINTS to be located as shown on the plan or at contractors option - not to exceed 8'-0" o.c.
- PROVIDE NON-SHRINK Metallic Grout under Base Plates and Non-Shrink Grout for all Dowels.
- MASONRY TO CONSIST OF ASTM C90 Hollow Core, Grade N, normal weight, Concrete Masonry Units. Joint reinforcing to be Ladder type formed from cold-drawn steel wire conforming to ASTM 82, consisting of deformed longitudinal rods with cross rods welded at intervals not exceeding 16" o.c.
- MORTAR: Exterior above grade / Interior bearing walls Type S
Interior partitions Type N or S
Exterior below grade Type S
Masonry grout to be $f'_c = 2000 \text{ PSI}$ Minimum. See ACI 308 TABLE 1.20.1 for grout space requirements and maximum pour heights.
- ROOF JOISTS shall be secured to wall plates with H2.5T Anchors by Simpson institute manual "HIB-91" or as required by the truss design.
- General Contractor shall provide all lateral roof bracing as required by truss plate institute manual "HIB-91" or as required by the truss design.
- CARPENTRY
Beams/Wood Studs Hem Fir, SPF #2, or better (all to be pressure treated)
- Refer to IBC table or MN Building Code for typical nailing not shown. Table 2304.10.2.
- ALL STRUCTURAL STEEL to be fabricated and erected in accordance with the AISC Code. Connections not detailed are to be designed in accordance with the AISC detailing for steel construction. Shop connections to be welded. Field connections to be double clip angle connection bolted with 3/4" diameter high strength bolts (ASTM A325).
- WHEN REACTIONS for structural members are not given on the plan, connections shall be designed by fabricator to support one-half the total uniform load capacity shown in the maximum uniform load tables in the current steel construction manual, for the given beam, span, and grade of steel specified.
- SEE MECHANICAL, ELECTRICAL & ARCHITECTURAL DRAWINGS for all openings and inserts not shown on the plan. All opening sizes and locations to be verified with mechanical and electrical contractors.
- IF DIMENSIONAL DISCREPANCIES occur between the field and the project dimension, or between the Architectural and Structural plans, verify correct dimensions with the Architect/Engineer before they are used for construction.

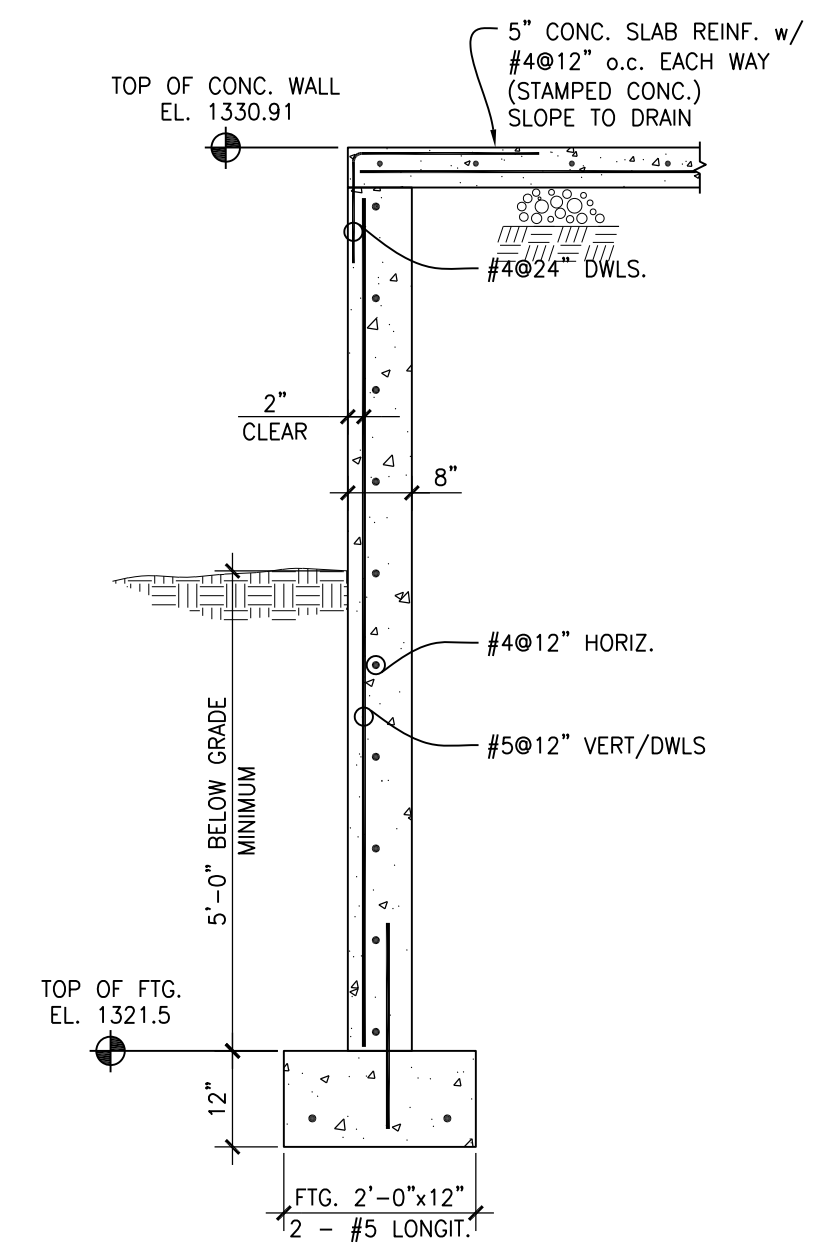


FOUNDATION PLAN

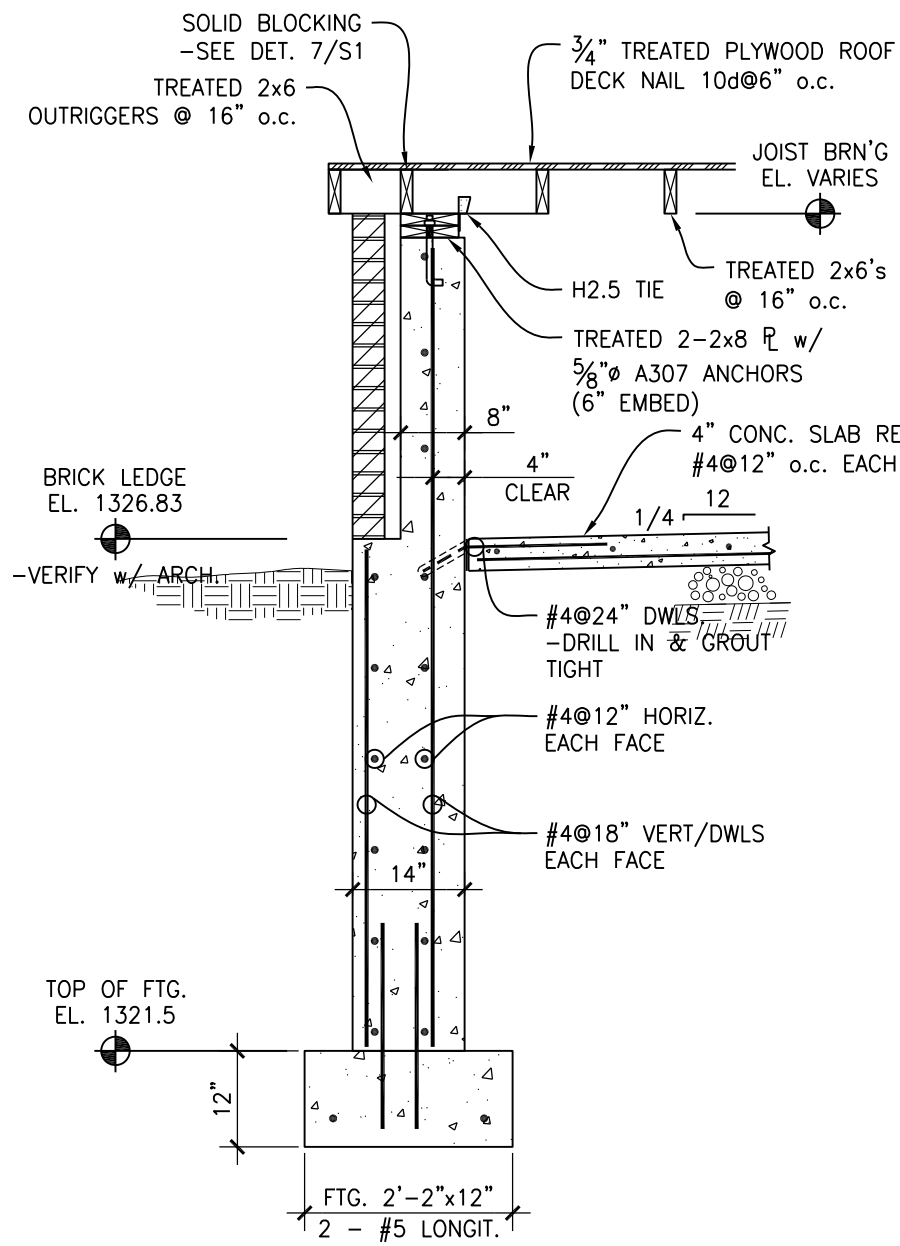
SCALE: 1/4" = 1'-0"

NOTE: 1). TOP OF FOOTING EL. = 1321.5 U.N.O.

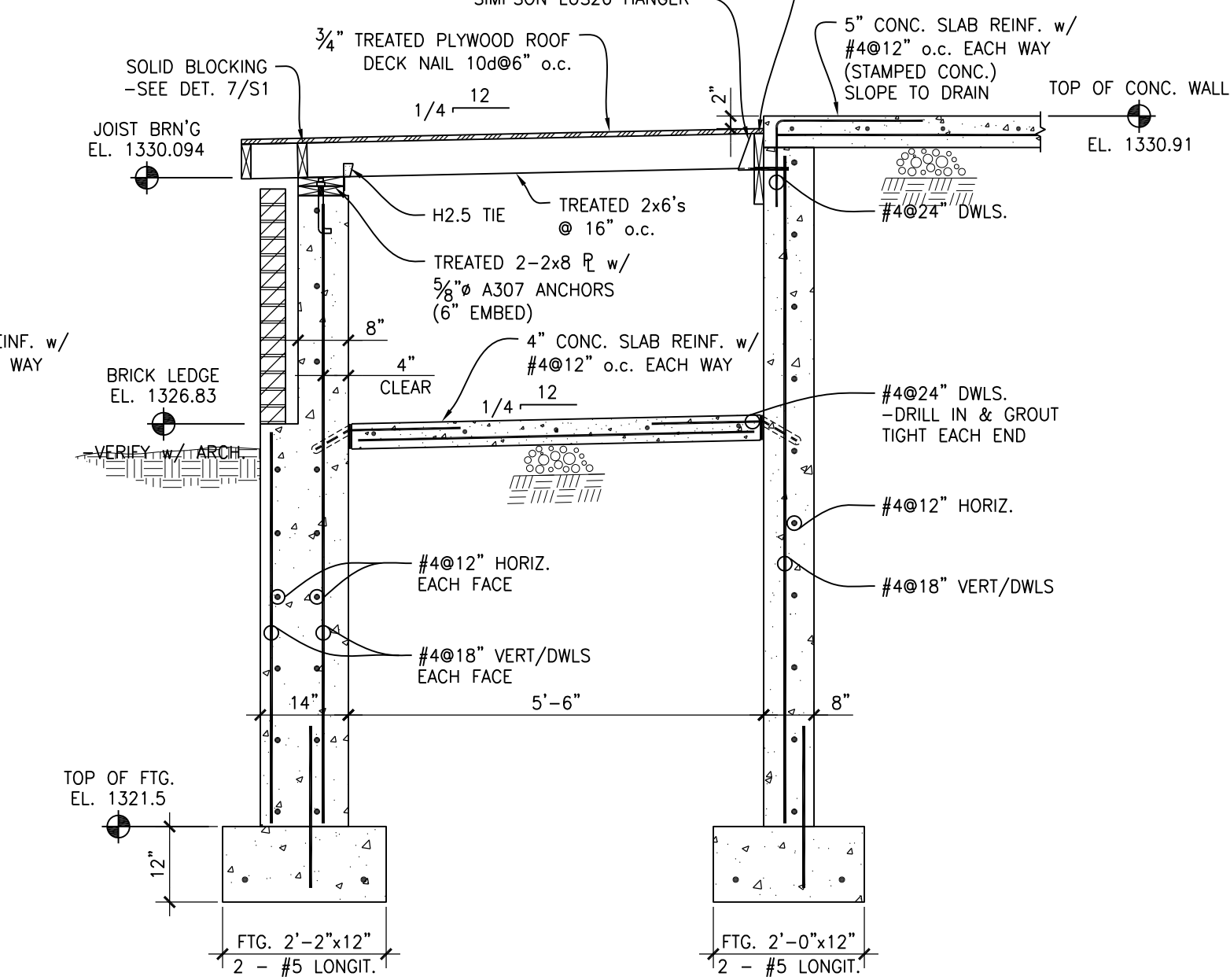
'P1' = 5'-0" x 7'-4" CONC. PIER
36 - #8 VERT/DWLS
#4@12" TIES
3 - #4 TIES @ TOP



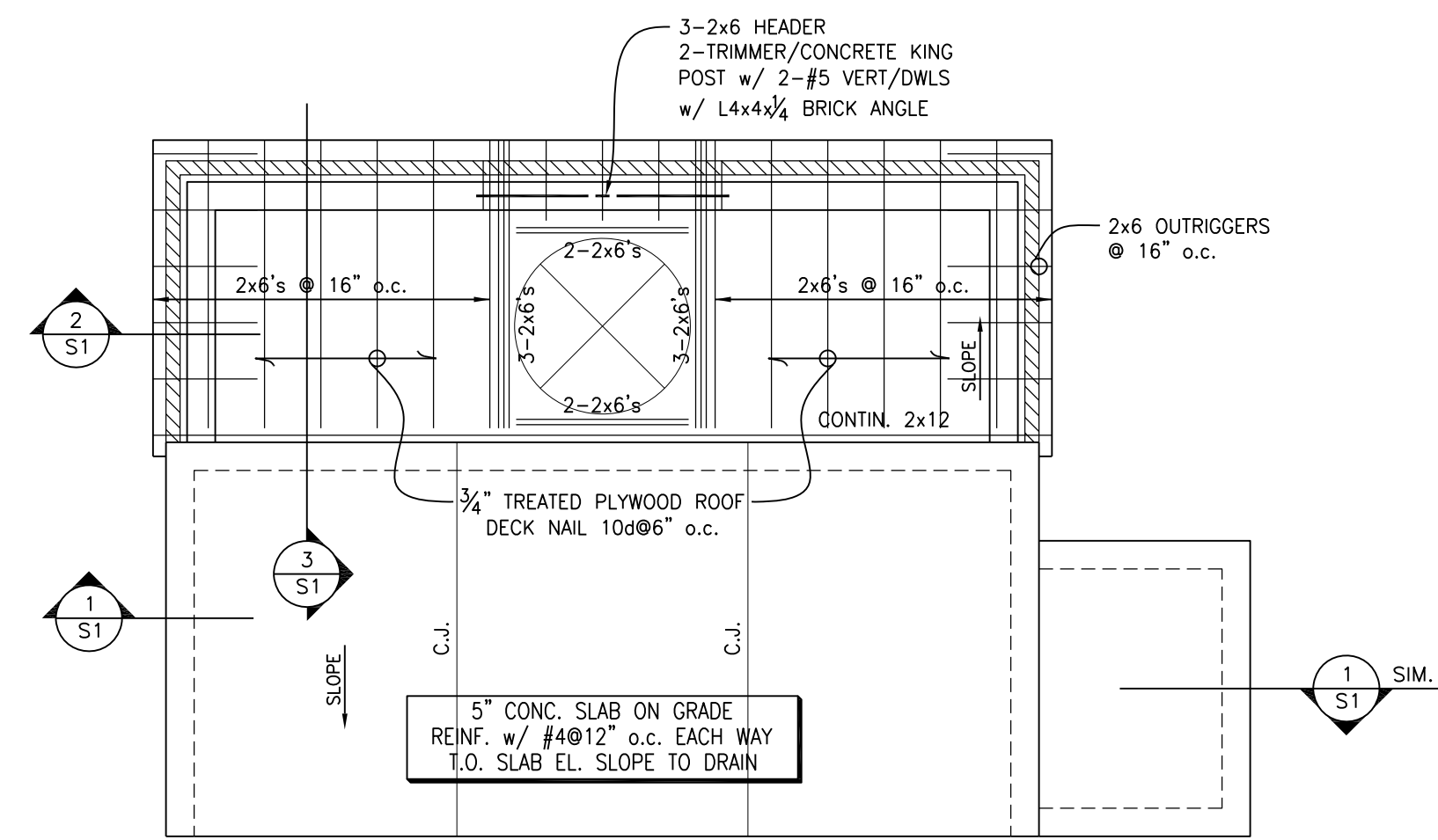
SECTION 1 SCALE: 1/2" = 1'-0"



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

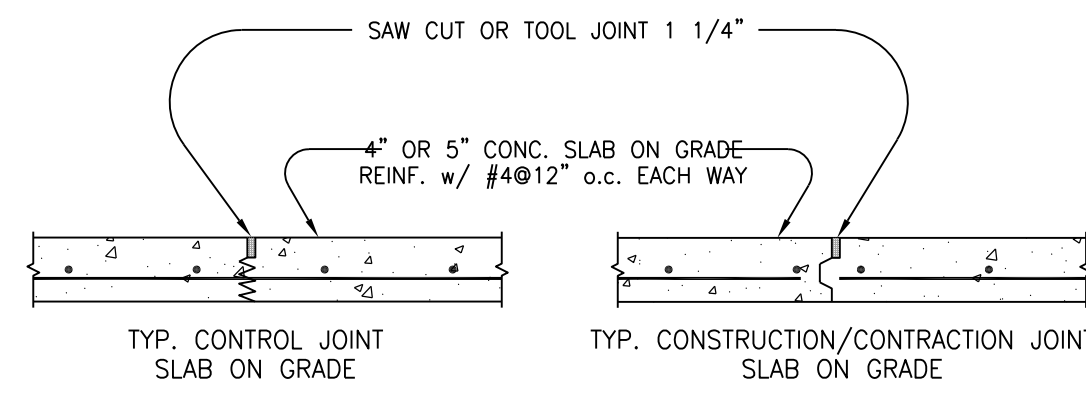


SECTION 3 SCALE: 1/2" = 1'-0"

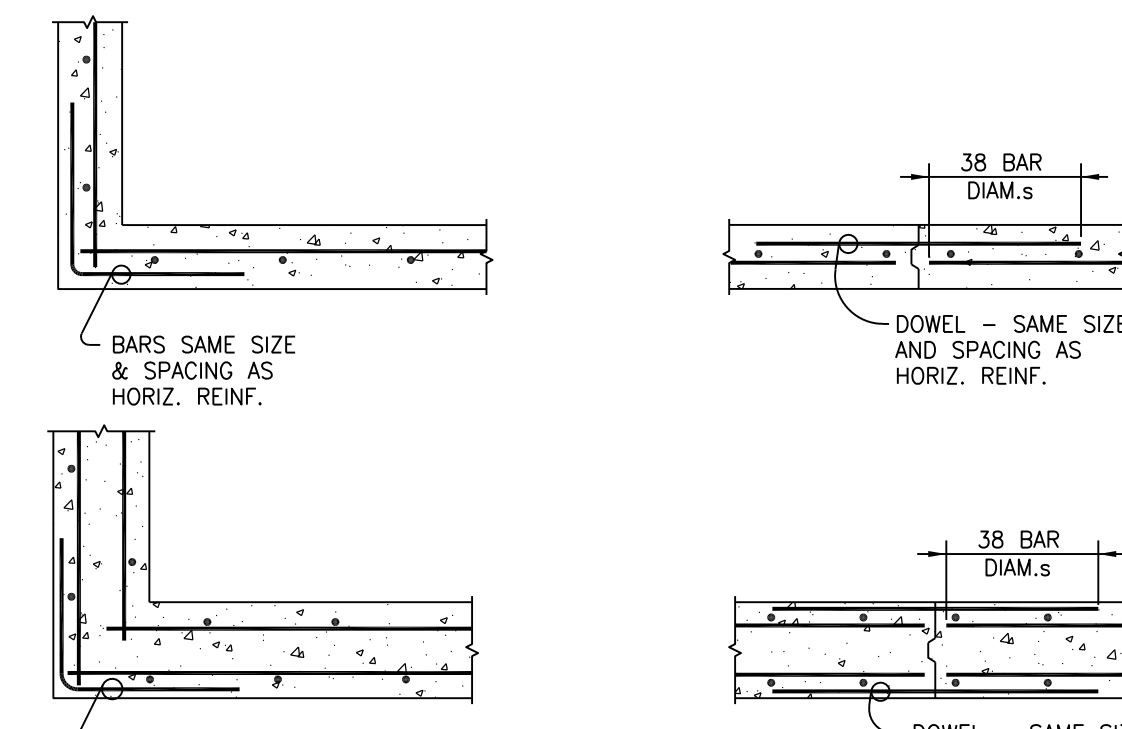


FRAMING PLAN/SLAB PLAN

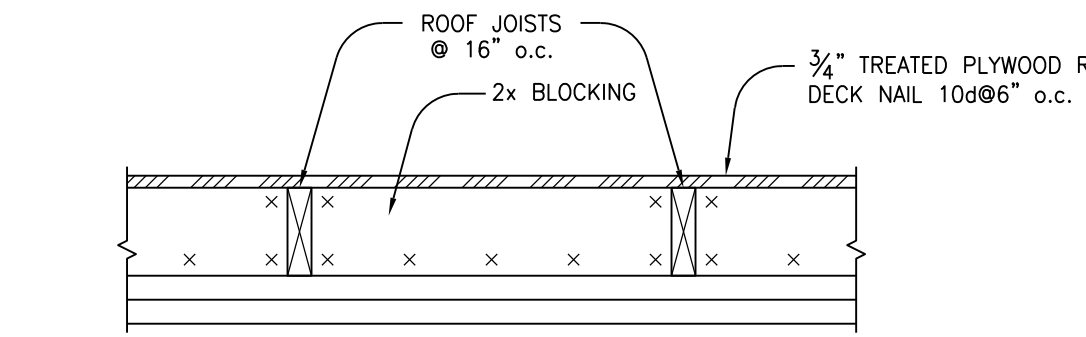
SCALE: 1/4" = 1'-0"



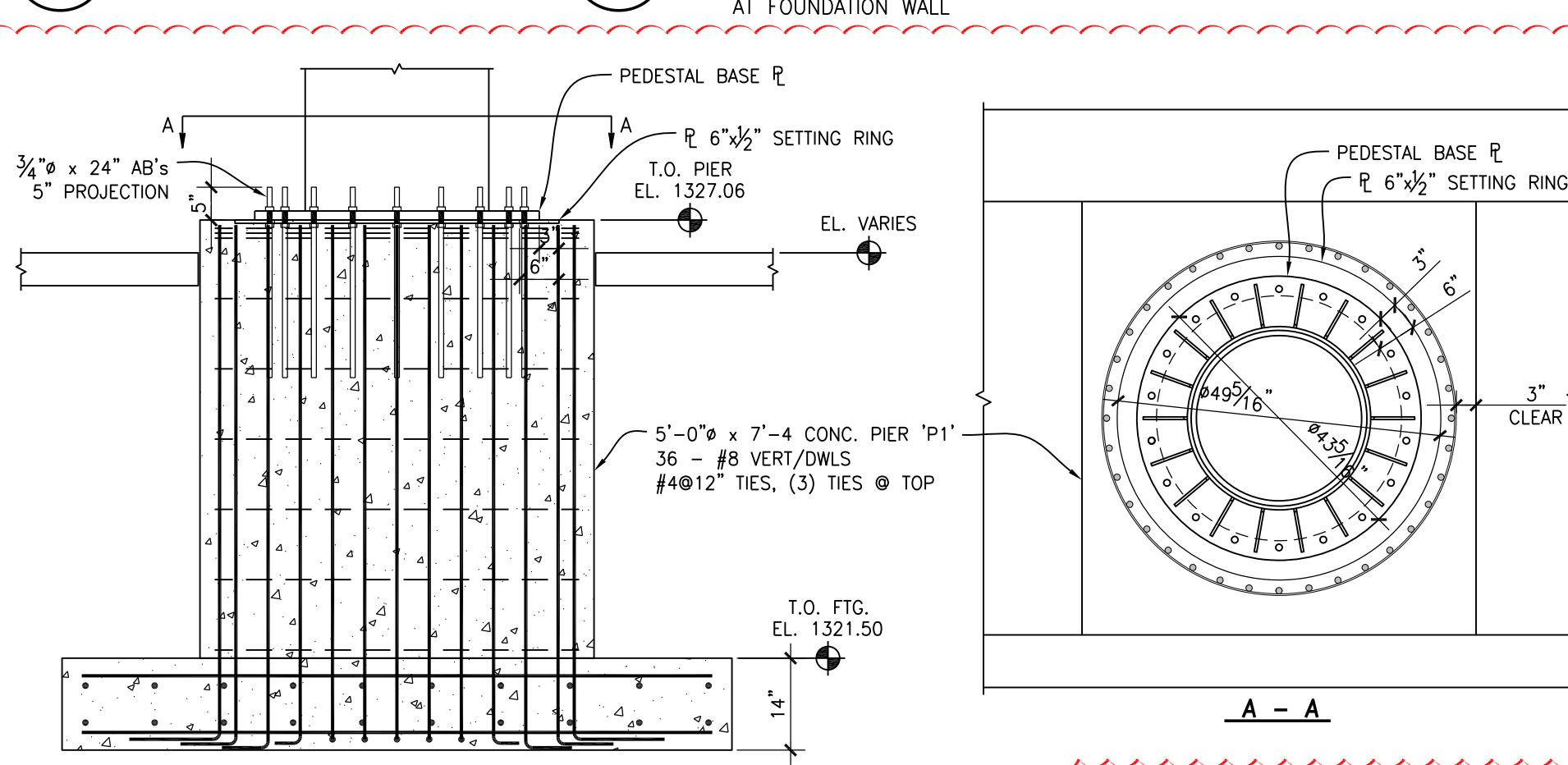
SECTION 4 TYP. CONTROL JOINT SLAB ON GRADE TYP. CONSTRUCTION/CONTRACTION JOINT SLAB ON GRADE



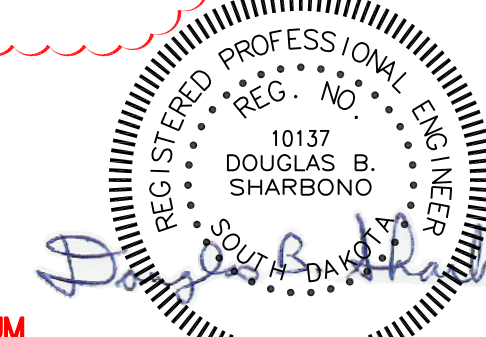
DETAIL 5 TYP. CORNER WALL REINF. DETAIL 6 TYP. CONSTRUCTION JOINT AT FOUNDATION WALL



SECTION 7 TYP. SOLID BLOCKING DETAIL SCALE: 1" = 1'-0"



PIER/RIDE SECTION SCALE: 1/2" = 1'-0"



 SOLIER & LARSON ENGINEERING CONSULTING STRUCTURAL ENGINEERS 3330 FIECHTNER DRIVE, SUITE 206 FARGO, NORTH DAKOTA 58103 TELEPHONE (701) 235-5593 FAX (701) 235-5594	FOUNDATION PLAN STORYBOOK LAND BARNYARD RIDE ABERDEEN, SD		DRAWN BY: LT FILE NO.: 23124 DATE: 10-11-23 SHEET NO.: S1
	CITY OF ABERDEEN SO. DAKOTA ABERDEEN, SD		
	ADDENDUM 10/18/2023		
	SCALE: 1/4" = 1'-0"		