DANE COUNTY DEPARTMENT of PUBLIC WORKS, HIGHWAY and TRANSPORTATION

County Executive
Joseph T. Parisi

1919 Alliant Energy Center Way ◆ Madison, Wisconsin 53713
Phone: (608) 266-4018 ◆ Fax: (608) 267-1533

Commissioner / Director
Gerald J. Mandli

December 6, 2013

ATTENTION ALL REQUEST FOR BID (RFB) PROPOSAL HOLDERS

RFB NO. 313086 - ADDENDUM NO. 6

ARCTIC ANIMAL EXHIBIT AND CONCESSIONS

BIDS DUE: THURSDAY, DECEMBER 12, 2013, 2:00 PM.
DUE DATE AND TIME ARE NOT CHANGED BY THIS ADDENDUM.

This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB. **Bidders must acknowledge all Addenda on the Bid Form.**

PLEASE MAKE THE FOLLOWING CHANGES:

GENERAL

1. **Bid Form**
   - As described on the Bid Form- Both Lump Sum allowances identified on page BF-1 of the Bid Form are to be included in the Base Bid.
2. **Instructions to Bidders; 9.B, 9.C and 9.K.8**
   - The ESB reporting is required within 10 days. (Not 24 hours).

CIVIL

3. **Sheet C2.1- Sanitary**
   - SA 1.20, Moved
   - SA 1.41, Moved
4. **Sheet C2.2- Sanitary Structure Table**
   - SA 1.20, Moved Northing =476984.49, Easting= 814655.02, RIM = 110.00
   - SA 1.32, Moved, Northing= 477099.51, Easting = 814494.57, RIM= 109.00
   - SA 1.37, RIM= 112.35, 9 Linear Feet, See Detail on Sheet C2.7
   - SA 1.41, RIM= 106.50, INV OUT = 105.08
   - SA 1.41, RIM = 104.00
   - SA 1.43, RIM = 106.50, INV OUT 105.08

5. **Sheet C2.3 – Sanitary Pipe Table**
    - Pipe 2, Length 197’
    - Pipe 3, Length 15’, Slope 0.69%
    - Pipe 4, Length 32’, Slope 0.78%
    - Pipe 10, Length 104’
    - Pipe 24, Length = 62’, Slope 4.20%
    - Pipe 27, Slope 5.23%
6. **Sheet C2.7- Storm Water Str. & Pipe Tables**
    - ST 2.23, 28 Linear Feet, RIM=106.00
    - ST 2.32, 15 Linear Feet, RIM – 107.00, INV OUT 106.25
    - Pipe 43, 4 inch PVC
    - Pipe 46, 4 inch PVC
    - Added Trench Drain Detail

<u>SITE</u>

7. **Specification 323113, Chain Link Fences**
    - All mesh, pipes, and hardware to be painted flat black as shown on the drawings. There is no special polymer coating, powder coating, or vinyl coating.
8. **Sheet CS1.0**
    - Modified contractor access/ staging locations.
9. **Sheet SA1.1**
    - Added references to pavement thicknesses.
10. **Sheet SA1.8**
    - Modified dimensions at seal pool due to thickened pool walls.
11. **Sheet SA3.3, details G & H**
    - 24” x 24” S.S. Checkered hatch noted is per J/SA3.3
12. **Sheet SA8.1**
    - Updated references to pavement thicknesses.
13. **Sheet SG1.2**
    - Modified grades at underwater seal viewing due to thickened walls.
14. **Sheet SA7.0**
    - Note 10- Chainlink lid at vestibules is supported on 4” pipes @ 5’-0” o.c. as shown on A/SA7.1
    - Hotwire fence chargers to be 6 Joules, Low Impedance for use with Large Predators such as bears in tall/thick grass, equal to:
      PowerWizard PW6000, or Zareba EAC 100M-Z
15. **Sheet SA7.1, detail A**
    - Tension bars occur at each end of any give run of chain link fence, not at the intermediate posts.
    - How wire to be attached to the chainlink fences with plastic chain link insulators.

ARCHITECTURAL

16. Specification 034100, Precast Structural Concrete

- Provide and coordinate galvanized embed plates required for installation of cagework as indicated on all CW sheets.
- Provide additional galvanized embed plates beyond those shown in cage work drawings of the following sizes and quantities; (10) 6”x6”, (4) 6”x12”, (2) 12”x16” as required for complete installation of the cage work; exact locations to be determined.

17. Specification 033600, Artificial Rockwork

- All void space behind rockwork within pools is required to be grouted solid.
- All rockwork required to be finished (carved and colored) to 1’-0” below grade.

18. Sheet A0.1

- Door types 2 and 9 are no longer used.
- The option of a narrow lite at door type 1 has been removed.
- Door frame types C and D are no longer used.
- Revised Doors 100a, 100b, 119a, and 119b to no longer have door frame type C, as door frame type 7 has a built in frame.

19. Sheet A0.2

- Changed head detail from 1/A1.10 to 4/A1.9 for window types ‘A1’ and ‘A2’
- Glass width for window type ‘A5’ is 11’-2 ¾”.
- Jamb detail for window type ‘A5’ is similar to 4/A4.6.
- Window type B1 has two locations. Interior location has gyp. bd. Finish (see detail 9/A2.1) and exterior location has themework finish (see detail 5/A2.1).

20. Sheet A3.3, elevations 1 & 3

- Chain link fence vestibules (seet note 2.06 “containment fence”) have chain link lids as shown on Sheet SA7.0 (note 10) at approximately elevation 14’-0” as shown on Sheet A/SA7.1

21. Sheet A4.3

- Room 401 as shown on detail A to have a 4” thick concrete floor per details A&D/SA3.0.

22. Sheet CW1.1

- Revised sheet to show cagework weld plates in the RCP (B/CW1.1) as well as add two new elevations (5,6/CW1.1) indicating suggested approximate locations, size, & quantity of embed plates needed to fasten cagework & related items to precast ceilings & walls. Concrete precaster is to coordinate with cagework contractor for final locations, sizes, & quantity of embed plates. Note that all cable & pulley locations are shown diagrammatic, & final locations will be determined by cagework contractor and are to be coordinated with concrete precaster.
- See note on details 1-4/CW1.1 for pulleys that will be fastened to pre-cast concrete walls & ceilings. In addition, all steel plate pulley covers shields are to be ¼" galv. Steel instead of 1/8" galv. Steel plate.
- Polar Bear Transfer Crate equal to LGL #91190
- Replace existing sheet CW1.1 with new sheet CW1.1 included in this addendum.

23. Sheet CW1.3

- Detail 10/CW1.3 omitted from CD set.

24. Sheet CW2.1

- (A/CW2.1) Revised Keynotes for bear training wall to shift door handle type H1 to match door type S02. In addition, revised keeper cagework door type 'C7' to 'C7a'.
- Revised cagework to indicate a cover for two 6'-2"x12" openings rather than two 4'-4"x10" openings.

25. Sheet CW3.2

- Shift Door S3: At pre-cast walls, shift door track & door trolley track fastens to wall by bolting to 3/8"diam. threaded studs welded to embed plates @ 24" o.c
- Shift door S4: One jamb of door fastens to pre-cast wall by bolting to 3/8"diam. threaded studs welded to embed plates @ 24" o.c. Verify on plan location of jamb against pre-cast wall.
- Shift door S7: Bottom of door track to be held min. 2" above finish floor.
- Shift door S8: Bottom horizontal door track to be mounted to floor with ½" poly spacer to hold track off finish floor. Additionally, revised shift door to match elevation on 5/CW4.1 (single padlock drop bolt in lieu of two horizontal padlock bolts).
- Typical Door Shield for Horizontal Shift Doors: Where shield covers shift door mounted to precast concrete wall, fasten cover to wall by bolting to 3/8"diam. threaded studs welded to embed plates @ 24" o.c.

26. Sheet CW3.3

- Revised details 6, 7 and 8 to remove steel embed plate at interior face of pre-cast jambs. All cagework doors will epoxy anchor to cast-in-place concrete & pre-cast concrete walls. Pre-Cast supplier to provide 8" solid concrete at jamb.

27. Sheet CW3.4

- Revised 11/CW3.4 to indicate 3"x2" shift door S4 angle track (on bear squeeze chute side) to thru bolt to keeper door C4 jamb & fasten to precast wall by bolting to 3/8"diam. threaded studs welded to embed plates @ 24" o.c.

28. Sheet CW4.1

- Pinniped transfer crate equal to LGL #91188 , provide 4" S.S. eyebolts epoxied into wall around shift for securing in place.
- (B,11/CW4.1) Revised drawings to indicate suggested approximate locations, size, & quantity of embed plates needed to fasten cagework & related items to precast ceilings & walls. Precaster is to coordinate with cagework contractor for final locations, sizes, & quantity of embed plates.
- Add new detail 11/CW4.1 to existing CW4.1 sheet.

STRUCTURAL

29. General

- Material noted "Controlled Granular Backfill…to achieve EFP= 30 PSF/FT" is "Grade 1 Granular Backfill" in Geotechnical report.

30. Sheet S5.1- Seal Holding/ Life Support Foundation Plan

- Shifted footing step locations 1'-6" west to accommodate widened site wall footing

31. Sheet S7.3- Foundation Details

- Detail 9: Added 1'-2" embedment note

32. Sheet S7.4- Foundation Details

- Detail 6: Added 1'-2" embedment note and adjusted rebar in footing
- Detail 7: Added 1'-2" embedment note and adjusted rebar in footing
- Detail 9: Added 1'-2" embedment note

33. Sheet SR1.3- Bear Pool Wall Plan

- Changed T.O. Footing to match T.O. Pool Slab

34. Sheet SR1.4- Seal Pool Wall Plan

- Changed T.O. Footing to match T.O. Pool Slab
- Made site wall footing at seal building wider (now 8' overall)
- Added trench drain note at Seal Pool Underwater Viewing Wall

PLUMBING

35. Specification Section 22 10 00

- Section 2.4: Clarification – Schedule 40, unplasticized PVC-DWV or ABS-DWV, conforming to ASTM Standard D2665 with solvent-weld socket type joints shall be allowed for above ground sanitary and vent piping in seal building only. All other buildings shall remain cast iron or copper per specification section 2.4.
- Section 22 10 00, section 2.4.B: Standard weight no hub couplings are acceptable on above ground cast iron sanitary and vent piping.

- Section 22 10 00, section 2.6: Clarification – Standard weight cast iron with standard duty no hub couplings is acceptable for above ground grease vent piping.

ELECTRICAL

36. Specification Section 26 05 33

- Section 3.7: Clarification to item 5a - RMC does not need to be concrete encased. The options are RMC and concrete encased RNC.

37. Sheet E0.1

- luminaire schedule: Add “H.E. Williams DIG” as an acceptable manufacturer to type F2.
- Luminaire Schedule: Add “H.E. Williams DIG” as an acceptable manufacturer to types F13 and F13E.

38. Sheet E0.5

- Existing bear tunnel shall be considered a damp location.
- Revise the measurement from between the new concessions building transformer and the existing transformer. The new transformer shall be located 11’-6” from the face of the building instead of specifically 7’-0” between transformers. The desire is to maximize the distance between transformers.

39. Sheet EL1.1

- Bear Den 201 shall be considered a wet location, same as the bear holding building.

40. Sheet EL3.1

- Life support spaces considered corrosive may use standard galvanized fixture rods. All cut ends must be touched up to maintain corrosion resistance per the specifications.

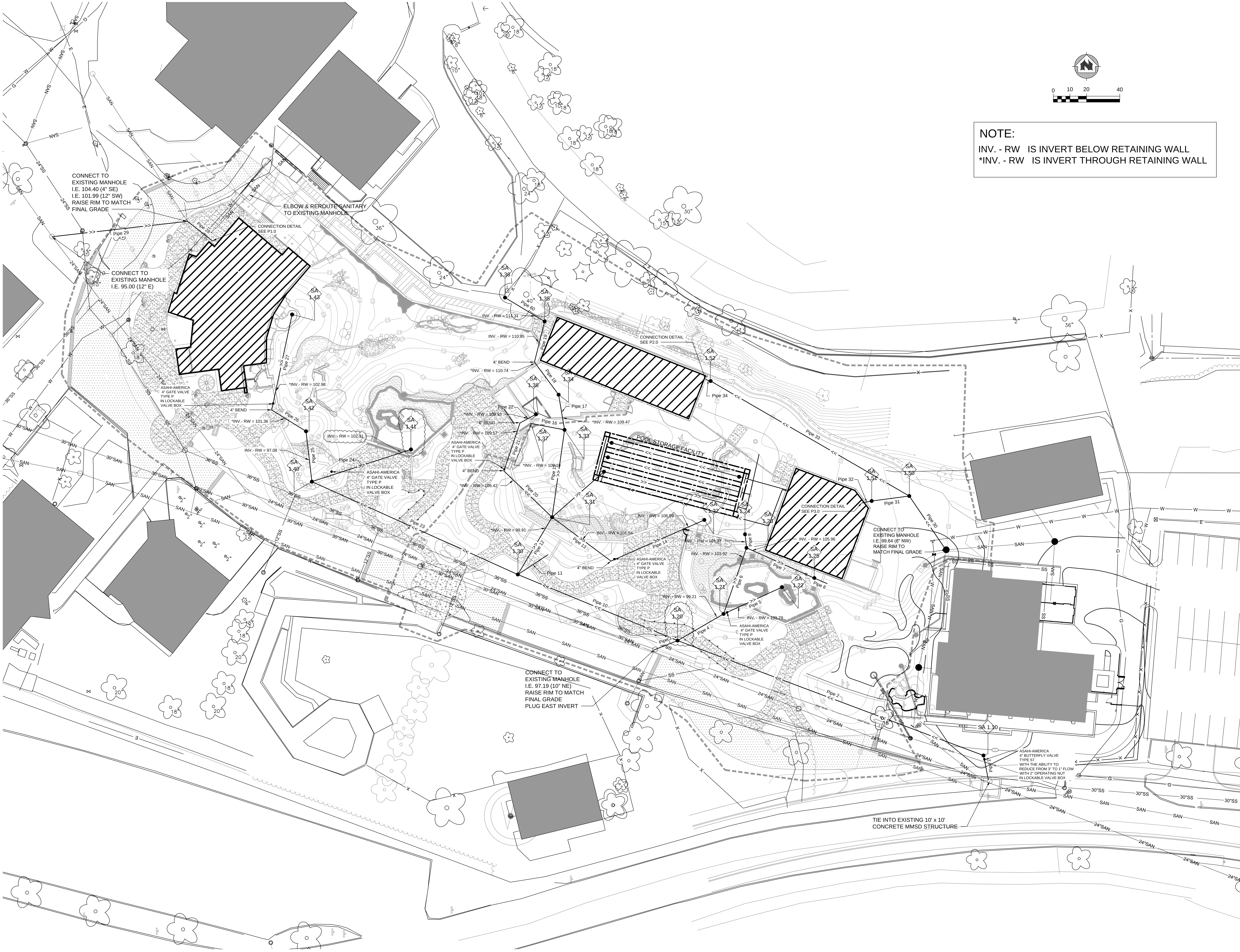
41. Sheet EP3.1

- Life support spaces considered corrosive may use standard galvanized unistrut. All cut ends must be touched up to maintain corrosion resistance per the specifications.
- plan 2: Delete the equipment connection near P-5 that is not labeled. P-5 has only a single connection

Enclosures:

Sheets: SG1.2, CW4.1(all sheets 8.5”x11” sheets – dated 12.6.2013)

Sheets: C2.1, C2.2, C2.3, C2.7, CS1.0, SA1.1, SA1.8, SA8.1, CW1.1, S5.1, S7.3, S7.4, SR1.3, SR1.4 (all 30”x42” sheets – dated 12.6.2013)



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wdm ARCHITECTS
WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

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WDM No. drawn: KN
06441000 checked: KL

SANITARY

C2.1

STRUCTURE TABLE

STRUCTURE NAME:	NORTHING	EASTING	DETAILS:	PIPES IN:	PIPES OUT	CASTING
SA 1.10	476915.35	814839.15	TYPE 4 RIM = 105.64 INV IN = 96.75 INV OUT = 96.80	Pipe 2, 48" INV IN =96.75	Pipe 1, 4" INV OUT =96.80	R-1540*
SA 1.20	476984.49	814655.02	TYPE 4 RIM = 110.00 INV IN = 99.00 INV IN = 98.07 INV IN = 96.98 INV OUT = 96.95	Pipe 4, 12" INV IN =99.00 Pipe 3, 10" INV IN =98.07 Pipe 10, 48" INV IN =96.98	Pipe 2, 48" INV OUT =96.95	R-1540*
SA 1.21	477000.54	814682.69	TYPE 1 RIM = 111.00 INV IN = 101.25 INV IN = 103.00 INV OUT = 99.25	Pipe 6, 8" INV IN =101.25 Pipe 5, 4" INV IN =103.00	Pipe 4, 12" INV OUT =99.25	R-2578 TYPE C
SA 1.22	477016.63	814717.84	POOL DRAIN RIM = 104.50 INV OUT = 103.58		Pipe 5, 4" INV OUT =103.58	POOL DRAIN SEE GRATE DETAIL LSS4.0
SA 1.23	477040.32	814696.52	TYPE 1 RIM = 113.25 INV IN = 105.35 INV IN = 105.30 INV OUT = 105.25	Pipe 9, 4" INV IN =105.35 Pipe 7, 4" INV IN =105.30	Pipe 6, 8" INV OUT =105.25	R-2578 TYPE C
SA 1.24	477048.48	814695.67	TYPE 1 RIM = 112.00 INV OUT = 105.40		Pipe 9, 4" INV OUT =105.40	R-4340-B BOLT DOWN
SA 1.25	477022.12	814737.32	TYPE 1 RIM = 113.99 INV IN = 105.65 INV OUT = 105.55	Pipe 8, 4" INV IN =105.65	Pipe 7, 4" INV OUT =105.55	R-2578 TYPE C
SA 1.30	477024.26	814558.85	TYPE 4 RIM = 107.50 INV IN = 97.12 INV IN = 99.50 INV IN = 100.00 INV OUT = 97.09	Pipe 23, 48" INV IN =97.12 Pipe 12, 24" INV IN =99.50 Pipe 11, 4" INV IN =100.00	Pipe 10, 48" INV OUT =97.09	R-1540*
SA 1.31	477058.76	814579.50	TYPE 1 RIM = 104.00 INV IN = 100.10 INV IN = 100.10 INV IN = 100.10 INV OUT = 100.00	Pipe 15, 12" INV IN =100.10 Pipe 13, 4" INV IN =100.10 Pipe 20, 4" INV IN =100.10	Pipe 12, 24" INV OUT =100.00	R-4340-B BOLT DOWN
SA 1.32	477099.51	814494.57	POOL DRAIN RIM = 109.00 INV OUT = 107.58		Pipe 14, 4" INV OUT =107.58	POOL DRAIN SEE GRATE DETAIL LSS4.0
SA 1.33	477111.31	814587.01	TYPE 1 RIM = 113.00 INV IN = 109.00 INV IN = 109.00 INV OUT = 108.00	Pipe 17, 4" INV IN =109.00 Pipe 16, 4" INV IN =109.00	Pipe 15, 12" INV OUT =108.00	R-4340-B BOLT DOWN
SA 1.34	477132.47	814583.42	TYPE 1 RIM = 113.75 INV IN = 110.50 INV OUT = 110.40	Pipe 18, 4" INV IN =110.50	Pipe 17, 4" INV OUT =110.40	R-2578 BOLT DOWN TYPE C

STRUCTURE TABLE

STRUCTURE NAME:	NORTHING	EASTING	DETAILS:	PIPES IN:	PIPES OUT	CASTING
SA 1.35	477176.60	814574.97	TYPE 1 RIM = 114.15 INV OUT = 111.15	Pipe 60, 4" INV OUT =111.25	Pipe 19, 4" INV OUT =111.15	R-2578 TYPE C
SA 1.36	477190.93	814551.15	TYPE 1 RIM = 125.00 INV OUT = 111.50		Pipe 60, 4" INV OUT =111.50	R-2578 TYPE C
SA 1.37	477115.17	814566.74	6" TRENCH DRAIN 9 LINEAR FEET RIM = 112.35 INV OUT = 109.20		Pipe 16, 4" INV OUT =109.20	R-4999-AX BOLT DOWN TYPE Q SEE DETAIL C2.7
SA 1.38	477120.73	814569.80	POOL DRAIN RIM = 111.85 INV OUT = 109.20		Pipe 22, 4" INV OUT =109.20	POOL DRAIN SEE GRATE DETAIL LSS4.0
SA 1.40	477080.17	814434.92	TYPE 4 RIM = 111.00 INV IN = 99.28 INV IN = 99.95 INV OUT = 97.28	Pipe 25, 12" INV IN =99.28 Pipe 24, 4" INV IN =99.95	Pipe 23, 48" INV OUT =97.28	R-1540*
SA 1.41	477106.66	814487.67	POOL DRAIN RIM = 104.00 INV OUT = 102.58		Pipe 24, 4" INV OUT =102.58	POOL DRAIN SEE GRATE DETAIL LSS4.0
SA 1.42	477110.49	814431.38	TYPE 1 RIM = 104.00 INV IN = 100.30 INV OUT = 100.20	Pipe 26, 4" INV IN =100.30	Pipe 25, 12" INV OUT =100.20	R-4340-B BOLT DOWN
SA 1.43	477180.79	814423.00	POOL DRAIN RIM = 106.50 INV OUT = 105.08		Pipe 27, 4" INV OUT =105.08	POOL DRAIN SEE GRATE DETAIL LSS4.0
SA 1.50	477071.52	814794.45	TYPE 1 W/ OUTSIDE DROP RIM = 110.50 INV IN = 102.80 INV IN = 107.33 INV OUT = 102.60	Pipe 31, 4" INV IN =102.80 Pipe 33, 4" INV IN =107.33	Pipe 30, 6" INV OUT =102.60	R-1540*
SA 1.51	477068.53	814771.86	TYPE 1 RIM = 111.33 INV IN = 103.00 INV OUT = 102.98	Pipe 32, 4" INV IN =103.00	Pipe 31, 4" INV OUT =102.98	R-1540*
SA 1.52	477140.70	814674.91	TYPE 1 RIM = 114.25 INV IN = 108.20 INV OUT = 108.10	Pipe 34, 4" INV IN =108.20	Pipe 33, 4" INV OUT =108.10	R-1540*

* SANITARY MANHOLES TO INCLUDE CHIMNEY SEAL

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WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com
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WDM No. 06441000 drawn: KN checked: KL

SANITARY STR. TABLE

C2.2

Pipe Table

NAME	SIZE & MATERIAL	LENGTH	SLOPE	VALVES
Pipe 1	4.0 inch PVC Pipe	15'	0.23%	4" Asahi-America Butterfly Valve Type 57
Pipe 2	48 inch Concrete Pipe	197'	0.10%	
Pipe 3	10.0 inch PVC Pipe	15'	0.69%	
Pipe 4	12.0 inch PVC Pipe	32'	0.78%	
Pipe 5	4.0 inch PVC Pipe	39'	1.51%	4" Asahi-America Gate Valve Type P
Pipe 6	8.0 inch PVC Pipe	42'	9.50%	
Pipe 7	4.0 inch PVC Pipe	45'	0.56%	
Pipe 8	4.0 inch PVC Pipe	8'	0.60%	
Pipe 9	4.0 inch PVC Pipe	8'	0.61%	
Pipe 10	48 inch Concrete Pipe	104'	0.11%	
Pipe 11	4.0 inch PVC Pipe	22'	27.66%	
Pipe 12	24.0 inch PVC Pipe	40'	1.24%	
Pipe 13	4.0 inch PVC Pipe	44'	4.30%	
Pipe 14	4.0 inch PVC Pipe	61'	9.09%	4" Asahi-America Gate Valve Type P
Pipe 15	12.0 inch PVC Pipe	53'	14.88%	
Pipe 16	4.0 inch PVC Pipe	21'	0.97%	
Pipe 17	4.0 inch PVC Pipe	22'	6.52%	
Pipe 18	4.0 inch PVC Pipe	24'	1.02%	
Pipe 19	4.0 inch PVC Pipe	25'	1.58%	
Pipe 20	4.0 inch PVC Pipe	40'	19.64%	

Pipe Table

NAME	SIZE & MATERIAL	LENGTH	SLOPE	VALVES
Pipe 21	4.0 inch PVC Pipe	31'	3.28%	4" Asahi-America Gate Valve Type P
Pipe 22	4.0 inch PVC Pipe	11'	1.82%	
Pipe 23	48 inch Concrete Pipe	136'	0.12%	
Pipe 24	4.0 inch PVC Pipe	62'	4.20%	4" Asahi-America Gate Valve Type P
Pipe 25	12.0 inch PVC Pipe	31'	3.01%	
Pipe 26	4.0 inch PVC Pipe	24'	7.00%	
Pipe 27	4.0 inch PVC Pipe	59'	5.23%	4" Asahi-America Gate Valve Type P
Pipe 28	4.0 inch PVC Pipe	19'	0.52%	
Pipe 29	12.0 inch PVC Pipe	82'	8.53%	
Pipe 30	6.0 inch PVC Pipe	40'	7.51%	
Pipe 31	4.0 inch PVC Pipe	23'	0.79%	
Pipe 32	4.0 inch PVC Pipe	6'	0.50%	
Pipe 33	4.0 inch PVC Pipe	138'	0.56%	
Pipe 34	4.0 inch PVC Pipe	3'	3.26%	
Pipe 60	4.0 inch PVC Pipe	28'	0.90%	

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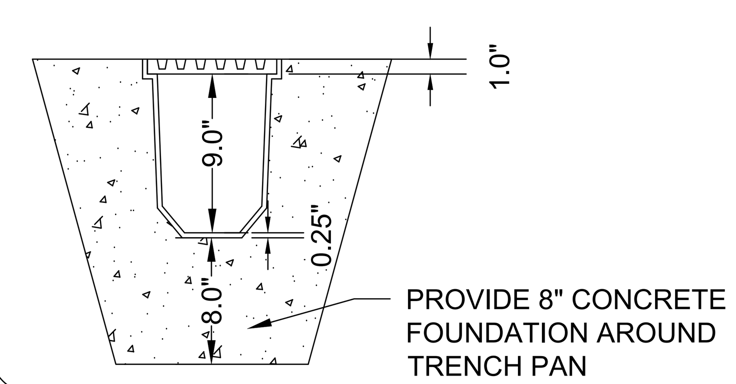
SANITARY PIPE TABLE

C2.3

STRUCTURE TABLE						
STRUCTURE NAME:	NORTHING	EASTING	DETAILS:	PIPES IN:	PIPES OUT	CASTINGS
ST 2.10	476983.67	814779.08	12" FES W/ APRON ENDWALL RIM = 104.00	Pipe 35, 12" INV IN =104.00		
ST 2.11	477009.78	814788.53	TYPE 1 RIM = 110.80 INV IN = 105.00 INV OUT = 105.00	Pipe 36, 12" INV IN =105.00	Pipe 35, 12" INV OUT =105.00	R-1550
ST 2.12	477063.65	814781.62	TYPE 1 RIM = 111.10 INV IN = 108.10 INV IN = 107.00 INV OUT = 106.00	Pipe 38, 12" INV IN =108.10 Pipe 37, 12" INV IN =107.00	Pipe 36, 12" INV OUT =106.00	R-1550
ST 2.13	477083.88	814795.38	24" INVERTED BELL RIM = 110.60 INV OUT = 107.60		Pipe 37, 12" INV OUT =107.60	R-4360-D
ST 2.14	477145.00	814678.70	24" INVERTED BELL RIM = 125.40 INV IN = 122.40 INV OUT = 113.00	Pipe 39, 12" INV IN =122.40	Pipe 38, 12" INV OUT =113.00	R-4360-D
ST 2.15	477182.85	814583.48	24" INVERTED BELL RIM = 126.00 INV OUT = 123.00		Pipe 39, 12" INV OUT =123.00	R-4360-D
ST 2.20	476967.92	814673.92	TYPE 2 RIM = 108.00 INV IN = 100.00 INV IN = 99.24	Pipe 41, 4" INV IN =100.00 Pipe 40, 30" INV IN =99.24		R-1550
ST 2.21	476973.41	814666.01	TYPE 2 RIM = 108.64 INV OUT = 99.55		Pipe 40, 30" INV OUT =99.55	R-1550
ST 2.22	476988.68	814712.92	TYPE 1 RIM = 107.00 INV IN = 102.75 INV IN = 102.00 INV OUT = 101.00	Pipe 42, 4" INV IN =102.75 Pipe 43, 6" INV IN =102.00	Pipe 41, 4" INV OUT =101.00	R-1550
ST 2.23	476996.05	814725.43	6" TRENCH DRAIN 28 LINEAR FEET RIM = 106.00 INV OUT = 105.25		Pipe 43, 4" INV OUT =105.25	R-4996-A GRATE Q
ST 2.30	477051.06	814475.25	TYPE 1 RIM = 108.31 INV IN = 100.00	Pipe 44, 12" INV IN =100.00		R-1550
ST 2.31	477083.23	814453.29	TYPE 1 RIM = 108.50 INV IN = 103.00 INV OUT = 101.65 INV OUT = 101.75	Pipe 46, 6" INV IN =103.00	Pipe 44, 12" INV OUT =101.65 Pipe 45, 6" INV OUT =101.75	R-1550
ST 2.32	477103.20	814468.27	6" TRENCH DRAIN 15 LINEAR FEET RIM = 107.0 INV OUT = 106.25		Pipe 46, 4" INV OUT =106.25	R-4996-A GRATE Q
ST 2.40	477247.36	814386.98	TYPE 1 RIM = 108.50 INV OUT = 105.25		Pipe 56, 6" INV OUT =105.25	R-1550
ST 2.41	477243.32	814347.48	TYPE 1 RIM = 108.54 INV IN = 101.00 INV IN = 105.10 INV OUT = 104.00	Pipe 55, 6" INV IN =101.00 Pipe 56, 6" INV IN =105.10	Pipe 57, 6" INV OUT =104.00	R-1550

Pipe Table			
NAME	SIZE & MATERIAL	LENGTH	SLOPE
Pipe 35	12.0 inch PVC Pipe	28'	3.60%
Pipe 36	12.0 inch PVC Pipe	54'	1.84%
Pipe 37	12.0 inch PVC Pipe	25'	2.45%
Pipe 38	12.0 inch PVC Pipe	131'	3.74%
Pipe 39	12.0 inch PVC Pipe	103'	0.59%
Pipe 40	30 IN. RCP	10'	3.22%
Pipe 41	4.0 inch PVC Pipe	44'	2.26%
Pipe 42	4.0 inch PVC Pipe	6'	4.16%
Pipe 43	4.0 inch PVC Pipe	15'	22.39%
Pipe 44	12.0 inch PVC Pipe	44'	3.71%
Pipe 45	6.0 inch PVC Pipe	17'	1.48%
Pipe 46	4.0 inch PVC Pipe	25'	13.22%
Pipe 47	6.0 inch PVC Pipe	38'	12.24%
Pipe 48	4.0 inch PVC Pipe	3'	8.09%
Pipe 49	4.0 inch PVC Pipe	4'	5.80%
Pipe 50	6.0 inch PVC Pipe	35'	0.00%
Pipe 51	6.0 inch PVC Pipe	42'	0.00%
Pipe 52	6.0 inch PVC Pipe	20'	0.00%
Pipe 53	4.0 inch PVC Pipe	5'	14.45%
Pipe 54	4.0 inch PVC Pipe	3'	8.90%
Pipe 55	6.0 inch PVC Pipe	22'	21.71%
Pipe 56	6.0 inch PVC Pipe	40'	0.38%
Pipe 57	6.0 inch PVC Pipe	52'	7.68%
Pipe 58	6.0 inch PVC Pipe	46'	4.43%

TRENCH DRAIN DETAIL
R-4996-A
GRATE Q
4" OUTLET



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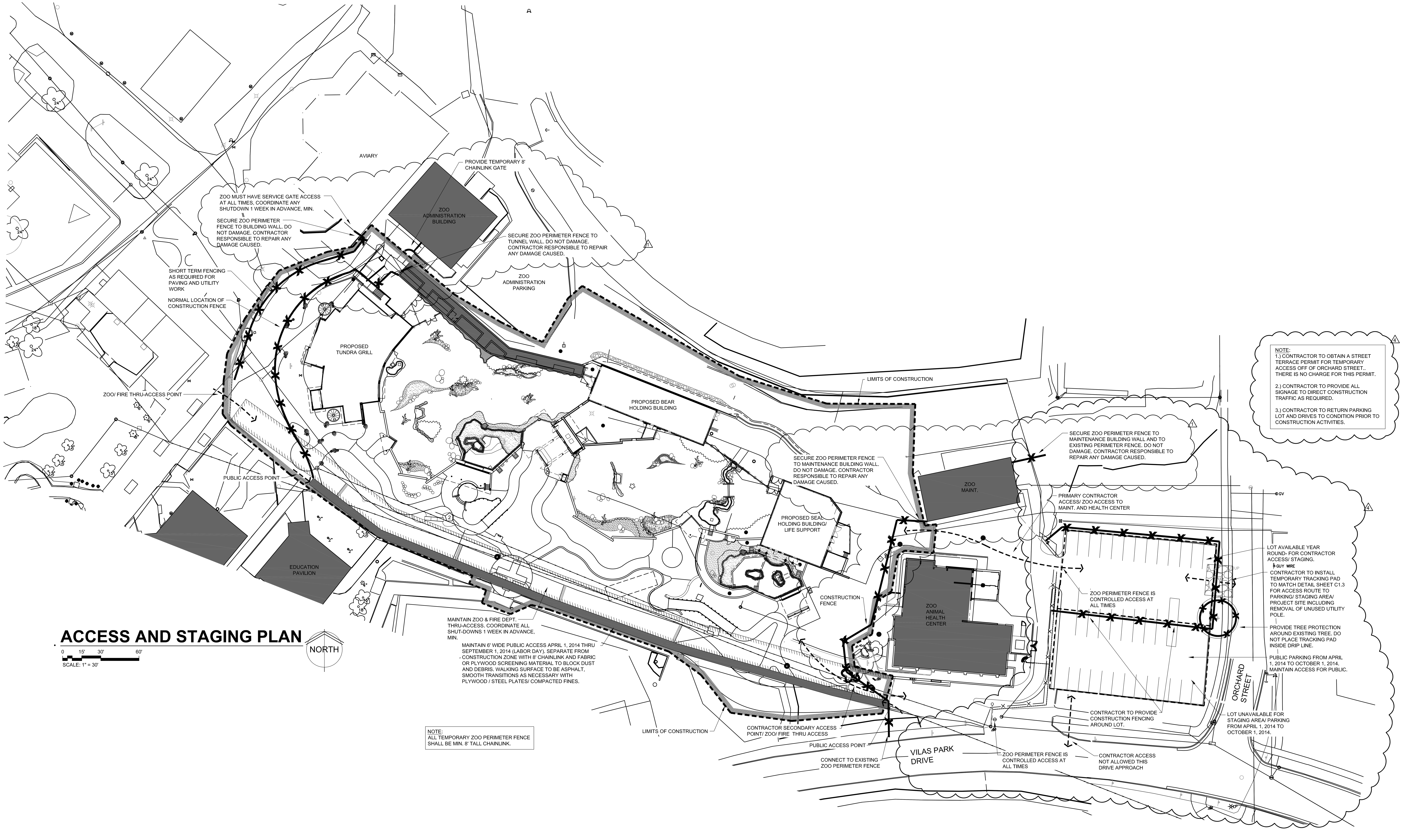
WDM No. drawn: KN
06441000 checked: KL

Storm Water Str. & Pipe Tables

C2.7



ACCESS AND STAGING PLAN

SCALE: 1" = 30'

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WDM No.	drawn: NS
13046	checked: SR

ACCESS AND STAGING PLAN

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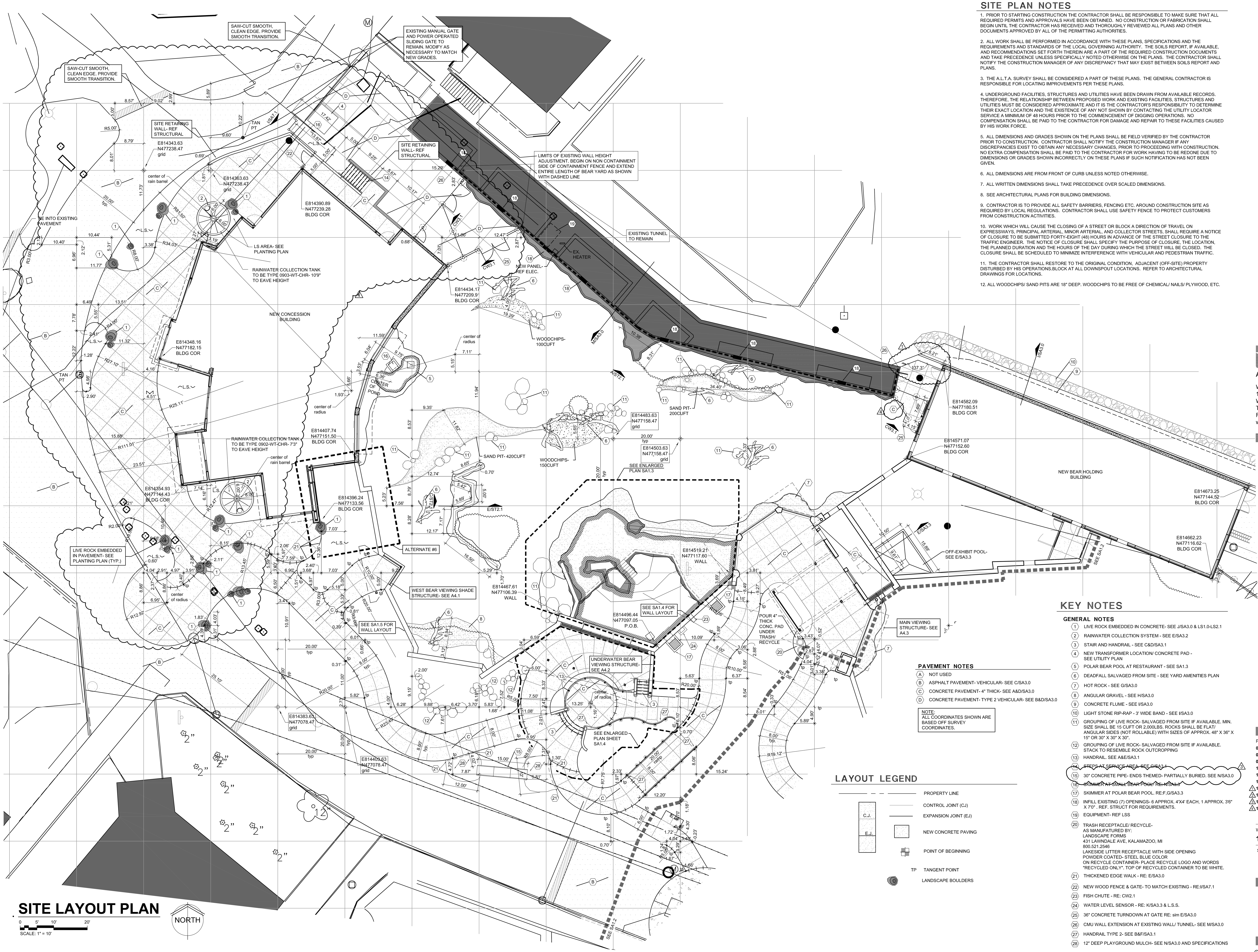

SITE LAYOUT PLAN

SCALE: 1" = 10'

NORTH

SITE PLAN NOTES

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

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8. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

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11. THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION, ADJACENT (OFF-SITE) PROPERTY DISTURBED BY HIS OPERATIONS.BLOCK AT ALL DOWNSPOUT LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.

12. ALL WOODCHIPS/ SAND PITS ARE 18" DEEP. WOODCHIPS TO BE FREE OF CHEMICAL/ NAILS/ PLYWOOD, ETC.

PAVEMENT NOTES

- A NOT USED
- B ASPHALT PAVEMENT- VEHICULAR- SEE C/SA3.0
- C CONCRETE PAVEMENT- 4" THICK- SEE A&D/SA3.0
- D CONCRETE PAVEMENT- TYPE 2 VEHICULAR- SEE B&D/SA3.0

NOTE:
ALL COORDINATES SHOWN ARE BASED OFF SURVEY COORDINATES.

LAYOUT LEGEND

- PROPERTY LINE
- CONTROL JOINT (CJ)
- EXPANSION JOINT (EJ)
- C.J.
- E.J.
- NEW CONCRETE PAVING
- POINT OF BEGINNING
- TP TANGENT POINT
- LANDSCAPE BOULDERS

KEY NOTES

GENERAL NOTES

1. LIVE ROCK EMBEDDED IN CONCRETE- SEE J/SA3.0 & LS1.0-LS2.1
2. RAINWATER COLLECTION SYSTEM - SEE E/SA3.2
3. STAIR AND HANDRAIL - SEE C&D/SA3.1
4. NEW TRANSFORMER LOCATION/ CONCRETE PAD - SEE UTILITY PLAN
5. POLAR BEAR POOL AT RESTAURANT - SEE SA1.3
6. DEADFALL SALVAGED FROM SITE - SEE YARD AMENITIES PLAN
7. HOT ROCK - SEE G/SA3.0
8. ANGULAR GRAVEL - SEE H/SA3.0
9. CONCRETE FLUME - SEE I/SA3.0
10. LIGHT STONE RIP-RAP - 3' WIDE BAND - SEE I/SA3.0
11. GROUPING OF LIVE ROCK- SALVAGED FROM SITE IF AVAILABLE. MIN. SIZE SHALL BE 15 CUFT OR 2,000LBS. ROCKS SHALL BE FLAT/ ANGULAR SIDES (NOT ROLLABLE) WITH SIZES OF APPROX. 48" X 36" X 15" OR 30" X 30" X 30".
12. GROUPING OF LIVE ROCK- SALVAGED FROM SITE IF AVAILABLE. STACK TO RESEMBLE ROCK OUTCROPPING
13. HANDRAIL. SEE A&E/SA3.1
14. ~~STEPS AT SERVICE AREA. SEE G/SA3.1~~
15. 30" CONCRETE PIPE- ENDS THEMED- PARTIALLY BURIED. SEE N/SA3.0 (3)
16. ~~SKIMMER AT SMALL BEAR POOL- RE: N/SA3.3~~
17. SKIMMER AT POLAR BEAR POOL. RE:F,G/SA3.3
18. INFILL EXISTING (7) OPENINGS- 6 APPROX. 4'X4' EACH, 1 APPROX. 3'6" X 7'0" . REF. STRUCT FOR REQUIREMENTS.
19. EQUIPMENT- REF LSS
20. TRASH RECEPTACLE/ RECYCLE-
    AS MANUFATURED BY:
    LANDSCAPE FORMS
    431 LAWNDALE AVE, KALAMAZOO, MI
    800.521.2546
    LAKESIDE LITTER RECEPTACLE WITH SIDE OPENING
    POWDER COATED- STEEL BLUE COLOR
    ON RECYCLE CONTAINER- PLACE RECYCLE LOGO AND WORDS "RECYCLED ONLY". TOP OF RECYCLED CONTAINER TO BE WHITE.
21. THICKENED EDGE WALK - RE: E/SA3.0
22. NEW WOOD FENCE & GATE- TO MATCH EXISTING - RE:I/SA7.1
23. FISH CHUTE - RE: CW2.1
24. WATER LEVEL SENSOR - RE: K/SA3.3 & L.S.S.
25. 36" CONCRETE TURNDOWN AT GATE RE: sim E/SA3.0
26. CMU WALL EXTENSION AT EXISTING WALL/ TUNNEL- SEE M/SA3.0
27. HANDRAIL TYPE 2- SEE B&F/SA3.1
28. 12" DEEP PLAYGROUND MULCH- SEE N/SA3.0 AND SPECIFICATIONS

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WDM No.	drawn: NS
13046	checked: SR

SITE LAYOUT PLAN

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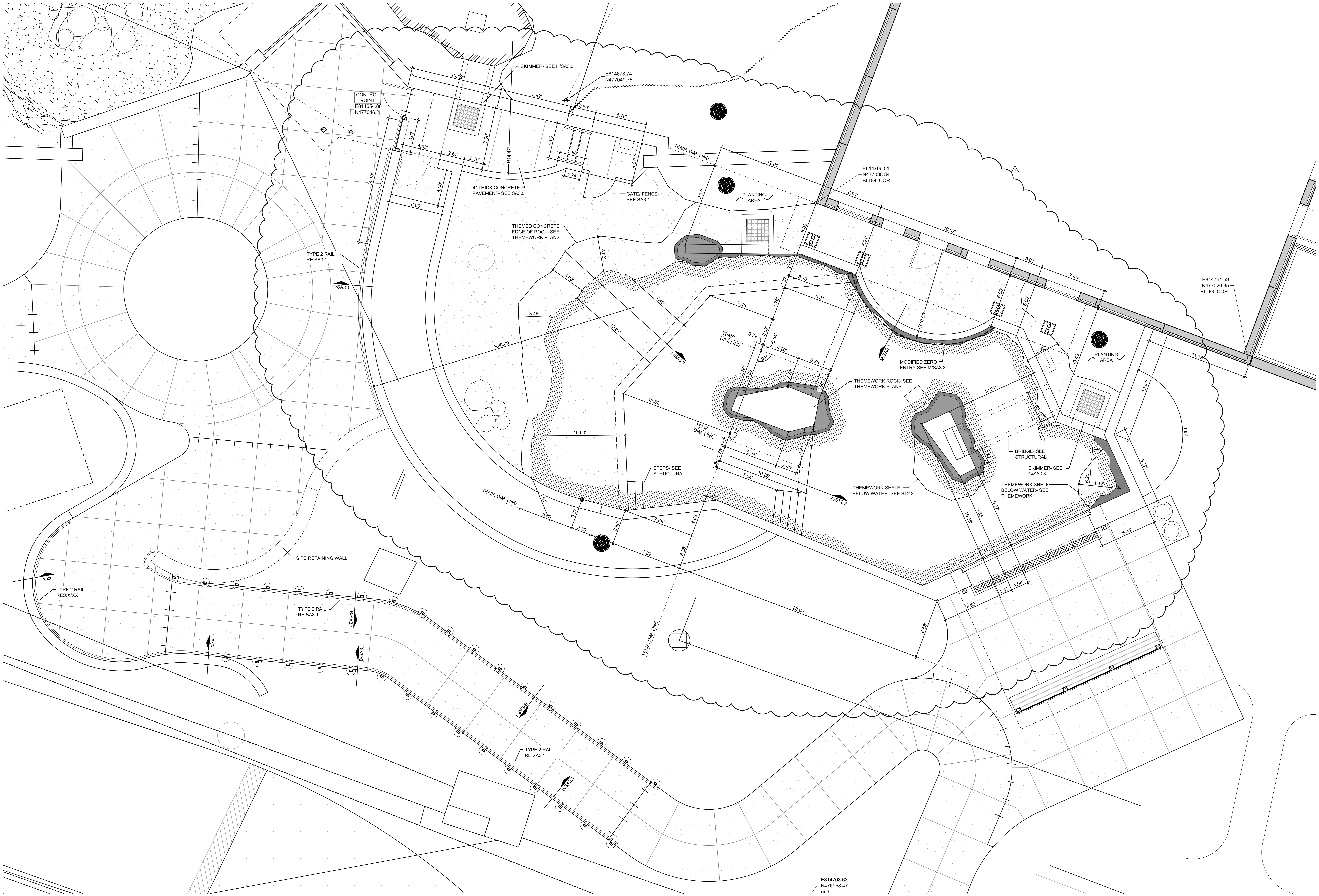

SEAL PLAN- ALTERNATE #7

ENLARGED LAYOUT PLAN

NORTH

0 2' 4' 8'

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

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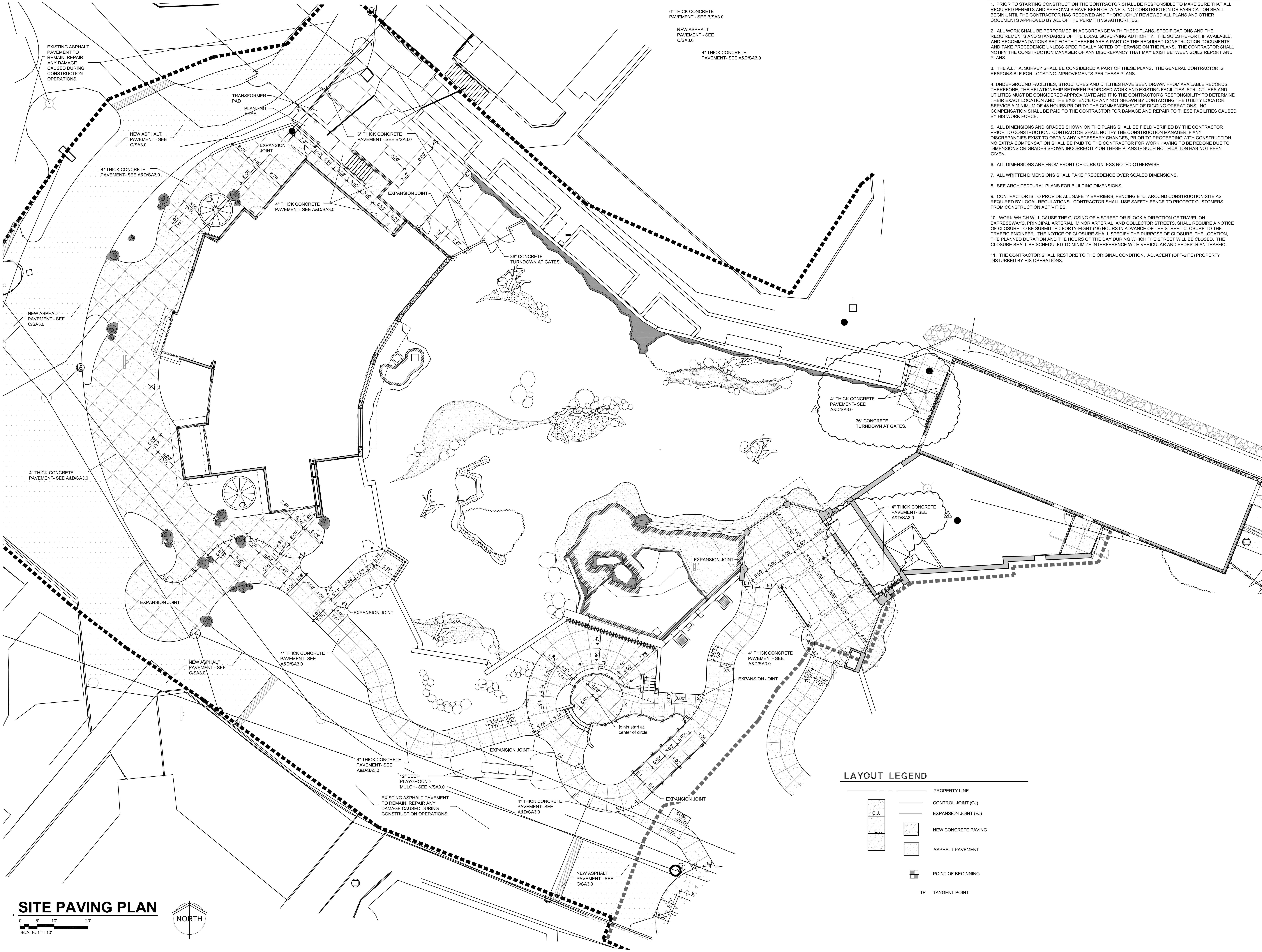
WDM No. 13046 — drawn: NS — checked: SR

ENLARGED SEAL PLAN

SA1.8



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E.J. EXPANSION JOINT (EJ)
NEW CONCRETE PAVING
ASPHALT PAVEMENT
POINT OF BEGINNING
TP TANGENT POINT

SITE PAVING PLAN

0 5' 10' 20'
SCALE: 1" = 10'
NORTH

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WDM No. **13046** drawn: NS checked: SR
SITE PAVING PLAN

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ARCTIC ANIMAL EXHIBIT AND CONCESSIONS
HENRY VILAS ZOO- COUNTY OF DANE
RFB No. 313086

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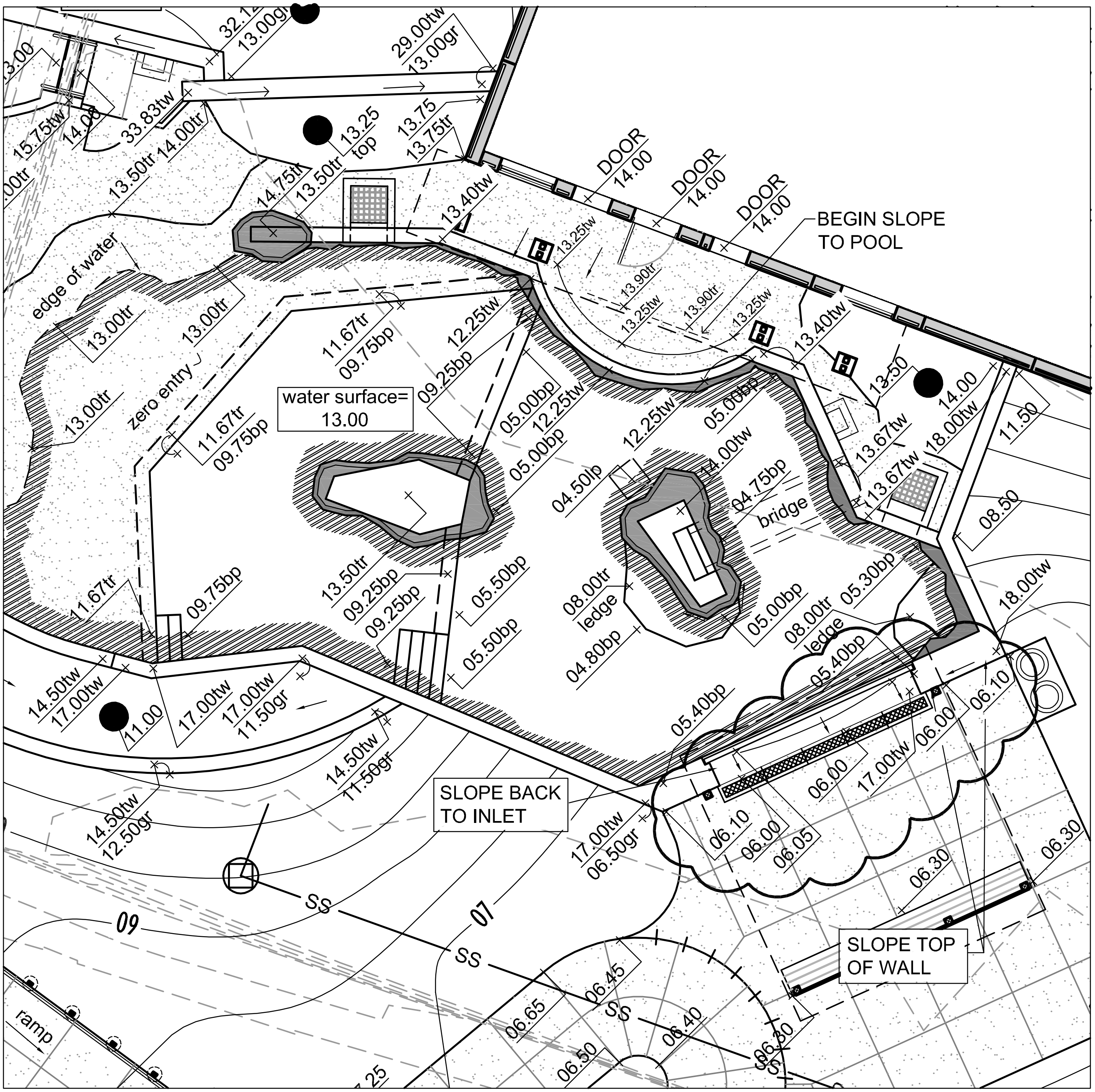
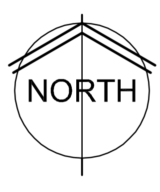
ADD. #6 - DEC 9, 2013



SITE GRADING PLAN



0 5' 10' 20'

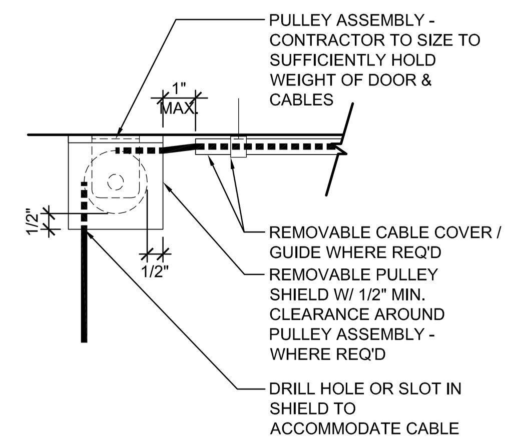
SCALE: 1" = 10'

TYPICAL PULLEY & CABLE ASSEMBLIES

PULLEY SHIELD & CABLE COVER / GUIDE NOTES:

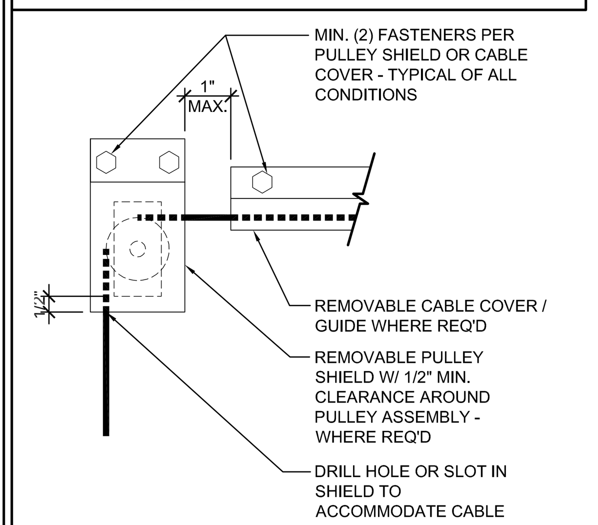
1. GENERAL NOTES FOR BEAR & SEAL HOLDING BUILDINGS:
- a. DOUBLE CRIMP ALL CABLES FOR PULLEY / CABLE ASSEMBLY'S.
- b. VERIFY LOCATIONS OF PULLEYS, CABLES & HANDLES W/ OWNER BEFORE INSTALLATION.

2. BEAR HOLDING BUILDING:
- a. PULLEY / CABLE SHIELDS REQ'D FOR ALL PULLEYS ON ANIMAL SIDE OF CAGEWORK.
- b. CONTINUOUS CABLE COVER REQ'D AT ALL LOCATIONS IN ANIMAL SIDE OF CAGEWORK OR WHEN CABLE IS MOUNTED DIRECTLY ON CAGEWORK ON KEEPER AISLE.
- c. PULLEY BLOCK COVER: 1/4" GALV. STEEL BENT PLATE W/ 3/8" ANCHORS @ 24" O.C. MAX TO FASTEN PULLEY COVERS TO STRUCTURE OR CAGEWORK.
- d. CABLE COVER: USE EITHER
  1. 1/4" GALV. STEEL BENT PLATE W/ 3/8" ANCHORS @ 24" O.C. MAX TO FASTEN CABLE COVERS TO STRUCTURE OR CAGEWORK.
  2. 1"Ø GALV. STEEL PIPE WITH U-FASTENERS @ 24" O.C. MAX.
- e. GROUP CABLES & ELECTRICAL CONDUIT RUNS IN BEAR AREA'S WHERE POSSIBLE IF PREFER TO COVER ALL CABLES, PULLEYS, AND CONDUIT WITH A LARGER BENT PLATE SHIELD.



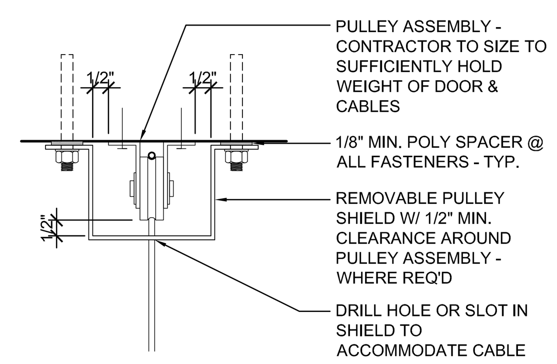
1 PULLEY & CABLE ASSEMBLY @ CEILING

SCALE: 1" = 1'-0"



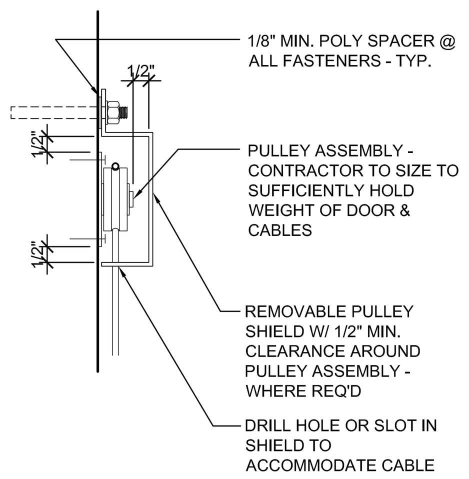
2 PULLEY & CABLE ASSEMBLY @ CEILING

SCALE: 1" = 1'-0"



3 PULLEY & CABLE ASSEMBLY @ WALL

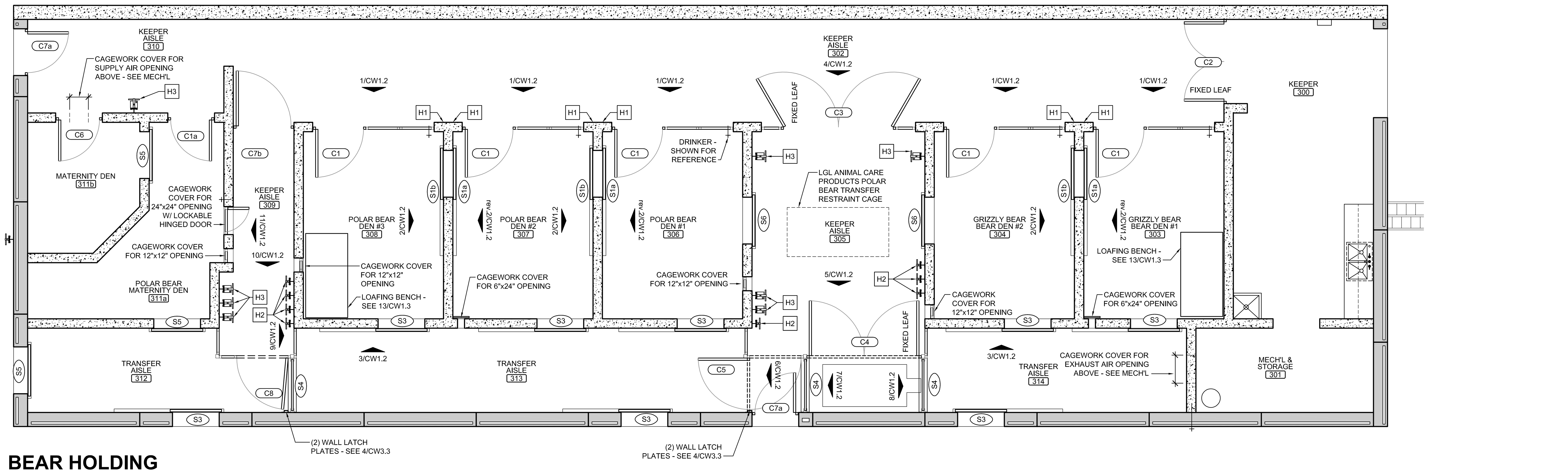
SCALE: 1" = 1'-0"



4 PULLEY & CABLE ASSEMBLY @ WALL

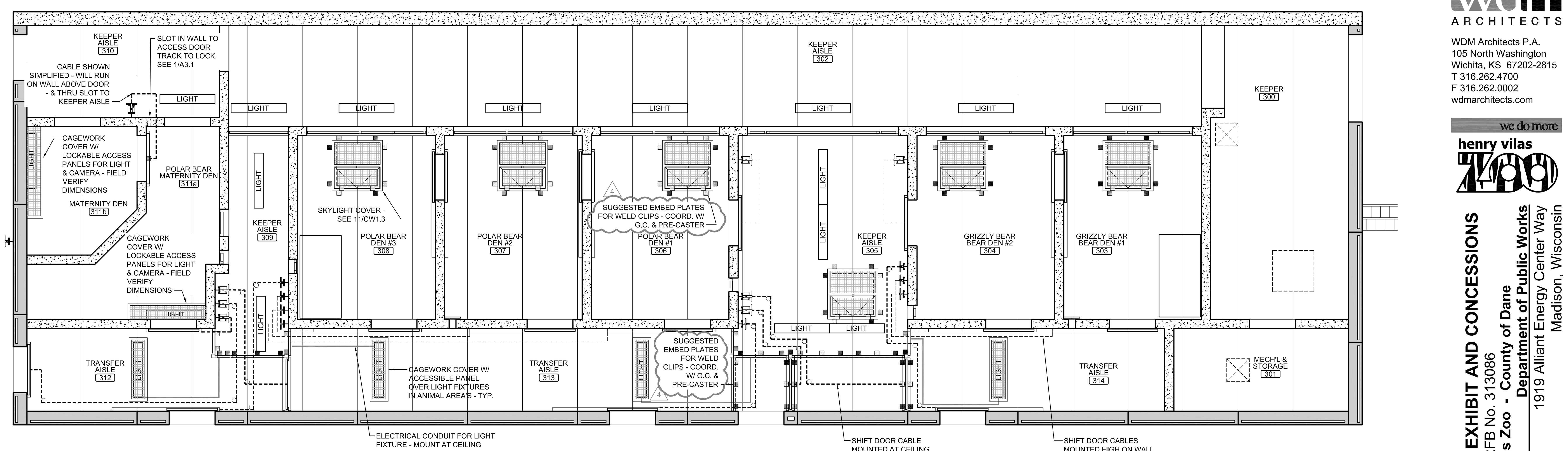
SCALE: 1" = 1'-0"

NOTE:
DETAILS 1-4 ASSUME FASTENING PULLEYS TO CAST-IN-PLACE CONCRETE, FOR PRE-CAST CONCRETE, PULLEYS WILL FASTEN TO EMBEDED WELD PLATES. PULLEYS SHOULD BE BOLTED TO THREADED RODS WELDED TO EMBED PLATES FOR REMOVAL & MAINTENANCE.



A BEAR HOLDING CAGEWORK FLOOR PLAN

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



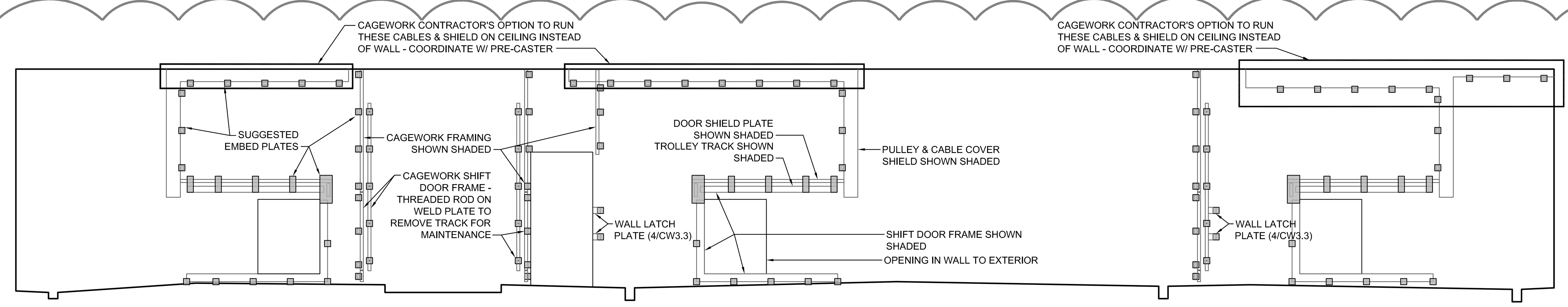
B BEAR HOLDING CAGEWORK REFLECTED CEILING PLAN

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

CABLES SHOWN DIAGRAMMATICALLY. FIELD VERIFY ACTUAL LOCATION OF CABLES & PULLEYS. COORDINATE WITH ELECTRICIAN WHERE CONDUIT RUNS IN TRANSFER AISLES FOR LIGHT FIXTURES.

EMBED PLATE LOCATIONS, SIZE, & QUANTITY SHOWN DIAGRAMMATICALLY. COORDINATE WITH CAGEWORK CONTRACTOR FOR ACTUAL LOCATION, QUANTITY, AND SIZE OF EMBED PLATES NEEDED.

CABLE & PULLEY COVER SHIELDS & ASSOCIATED EMBED PLATES NOT SHOWN ON THIS DRAWING - PRECASTER TO COORD LOCATIONS, SIZES, & QUANTITY OF EMBED PLATES FOR COVER SHIELDS @ CEILING IF NEEDED

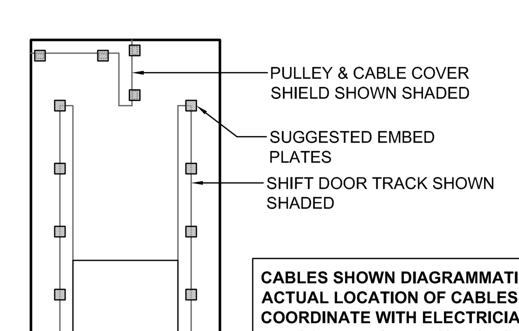


5 BEAR HOLDING CAGEWORK WELD PLATE ELEVATION

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

CABLES SHOWN DIAGRAMMATICALLY. FIELD VERIFY ACTUAL LOCATION OF CABLES & PULLEYS. COORDINATE WITH ELECTRICIAN WHERE CONDUIT RUNS IN TRANSFER AISLES FOR LIGHT FIXTURES.

EMBED PLATE LOCATIONS, SIZE, & QUANTITY SHOWN DIAGRAMMATICALLY. COORDINATE WITH CAGEWORK CONTRACTOR FOR ACTUAL LOCATION, QUANTITY, AND SIZE OF EMBED PLATES NEEDED.



CABLES SHOWN DIAGRAMMATICALLY. FIELD VERIFY ACTUAL LOCATION OF CABLES & PULLEYS. COORDINATE WITH ELECTRICIAN WHERE CONDUIT RUNS IN TRANSFER AISLES FOR LIGHT FIXTURES.

EMBED PLATE LOCATIONS, SIZE, & QUANTITY SHOWN DIAGRAMMATICALLY. COORDINATE WITH CAGEWORK CONTRACTOR FOR ACTUAL LOCATION, QUANTITY, AND SIZE OF EMBED PLATES NEEDED.

6 BEAR HOLDING CAGEWORK WELD PLATE ELEVATION

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

TYP. CAGEWORK NOTES

1. ALL CAGEWORK TO BE FULLY WELDED 2"x2"x1/4" GALV. TUBE FRAMES UNLESS NOTED OTHERWISE.
2. ALL CAGEWORK MESH TO BE 2"x2"x1/4" GALVANIZED WELDED WIRE MESH - FULLY WELDED TO ANIMAL SIDE OF CAGEWORK FRAME.
3. CAGEWORK CONTRACTOR TO PROVIDE ALL HARDWARE, PARTS, ACCESSORIES, ETC, AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM.
4. CAGEWORK CONTRACTOR TO INSURE ALL KEEPER & SHIFT DOORS OPERATE PROPERLY.
5. CAGEWORK CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL CONDITIONS PRIOR TO FABRICATION AND INSTALLATION.
6. 1" MAXIMUM GAP UNLESS NOTED OTHERWISE.
7. CAGEWORK CONTRACTOR TO PROVIDE PROPER DOOR HARDWARE FOR KEEPER & SHIFT DOORS.

CAGEWORK LEGEND

CXX	CAGEWORK KEEPER DOOR TAG - INDICATES DOOR TYPE - SEE CW3.1
SXX	CAGEWORK SHIFT DOOR TAG - INDICATES DOOR TYPES - SEE CW3.2
X	CAGEWORK SHIFT DOOR HANDLE TAG - INDICATES DOOR HANDLE TYPE - SEE CW4.2
	THICK DASHED LINE - INDICATES APX. LOCATION OF PULLEY/CABLE ASSEMBLY FOR SHIFT DOOR, RUN CABLE ALONG CEILING, PROTECT CABLE W/ CONT. 1"Ø GALV. PIPE & U-FASTENERS @ 24" O.C.
	THIN DASHED LINE - INDICATES APX. LOCATION OF PULLEY/CABLE ASSEMBLY FOR SHIFT DOOR HANDLE CABLES - RUN CABLE AT TOP OF WALL, PROTECT CABLE W/ CONT. 1"Ø GALV. PIPE & U-FASTENERS @ 24" O.C.
	THICK SOLID LINE - INDICATES APX. LOCATION OF ELECTRICAL CONDUIT FOR LIGHT FIXTURE - PROTECT CONDUIT W/ CONT. 1"Ø GALV. PIPE& U-FASTENERS @ 24" O.C.
	WALL - SEE ARCHITECTURAL DRAWING SET
X/CWX-X	ELEVATION TAG - SEE SHEET REFERENCED FOR CAGEWORK ELEVATION

WDM ARCHITECTS
WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

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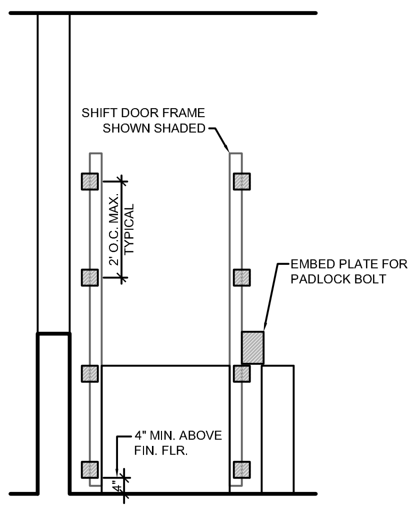
WDM No. **13046** drawn: DS checked: SR

CAGEWORK: BEAR BLDG.

CW1.1



11 CAGEWORK WELD PLATE ELEVATION

0 2' 4' 8'

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

EMBED PLATE LOCATIONS, SIZE, & QUANTITY SHOWN DIAGRAMMATICALLY. COORDINATE WITH CAGEWORK CONTRACTOR FOR ACTUAL LOCATION, QUANTITY, AND SIZE OF EMBED PLATES NEEDED.

4

PLAN NOTES

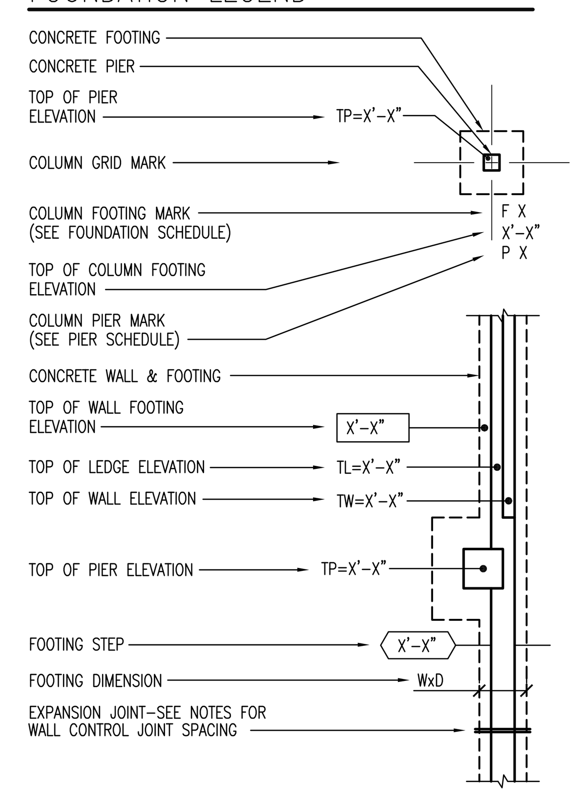
1. SEE SHEET S.01 FOR ADDITIONAL NOTES.
2. SEE SHEET S7.1 DETAIL 1 FOR ANCHOR BOLT REQUIREMENTS.
3. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & FOUNDATION WALL CORNER REINFORCING.
4. SEE SHEET S7.1 DETAILS 4 & 5 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS.
5. PROVIDE 2–#4 BARS AT ALL DEAD ENDS & REENTRANT CORNERS. SEE DETAIL 6/S7.1.
6. SLAB CONTROL JOINTS SHALL BE AS SHOWN ON PLAN OR SIMILAR. JOINT SPACING SHALL NOT EXCEED 10'–0" O.C. SLAB JOINT ASPECT RATIO SHALL NOT EXCEED 1.5:1. SEE DETAIL 7/S7.1.
7. SEE SHEET S7.1 DETAIL 8 FOR WALL JOINT REQUIREMENTS.
8. SITE PLAN DATUM ELEVATION: 114.00' = 100'–0"
9. SLOPE SLAB TO DRAINS. MAINTAIN SLAB THICKNESS.
10. ALL FLOOR BARS AND WWF IN SEAL HOLDING AREA AND ALL WALL REINFORCEMENT SURROUNDING POOLS SHALL BE EPOXY COATED (WHETHER SHOWN OR NOT SHOWN IN DETAILS).
11. SEE A–DRAWINGS FOR ALL DOOR AND INTERIOR WALL DIMENSIONS.
12. G.C. TO COORDINATE REQ. EMBED SIZE & LOC FOR CAGE WORK WITH PRECAST SUPPLIER AT ALL NOTED DOORS, TYP.

FOOTING SCHEDULE

FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING, BOTTOM
F1	3'–0" x 3'–0" x 1'–0"	4–#5 EA WAY

1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

FOUNDATION LEGEND



PRECAST SCHEDULE

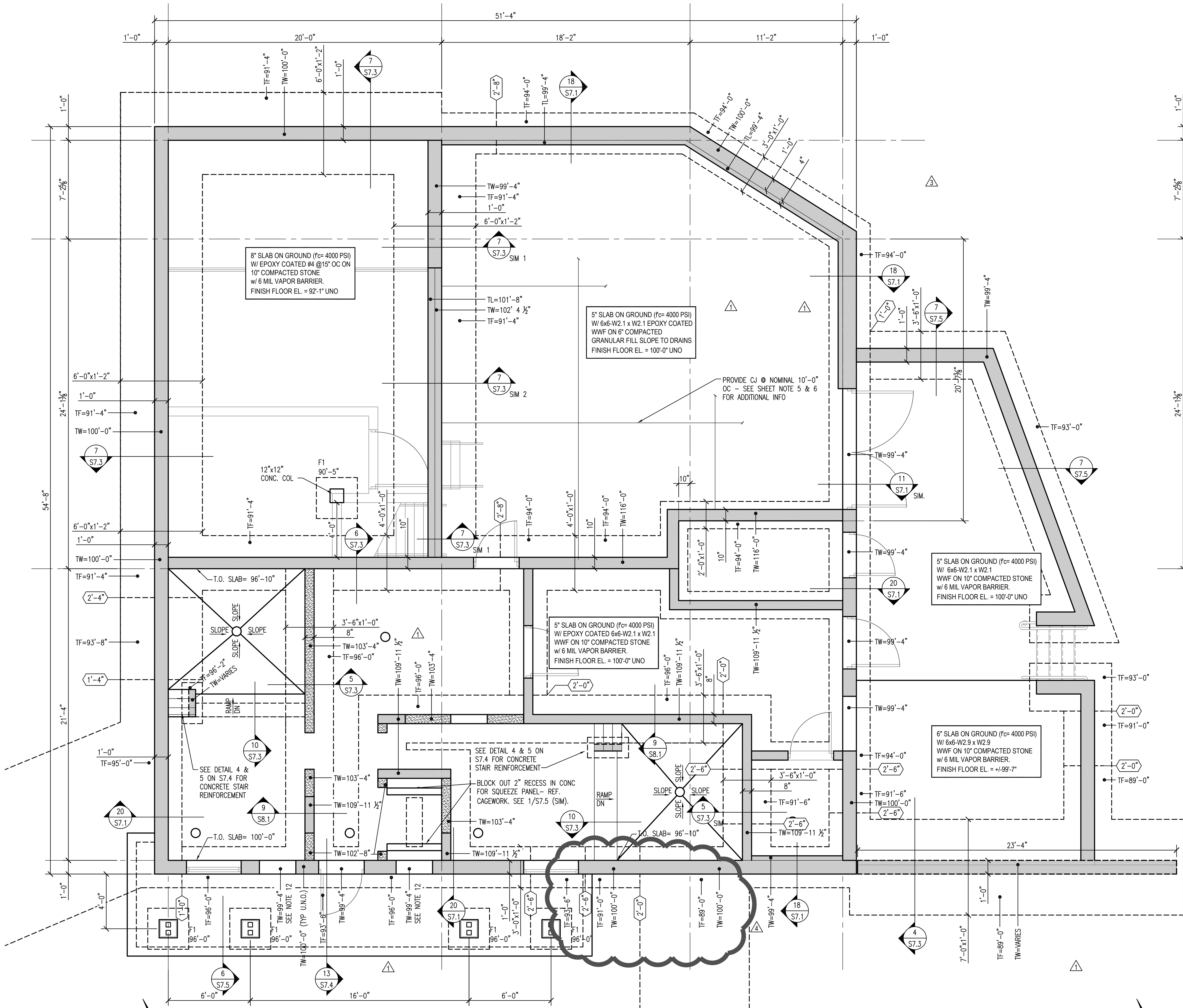
MARK	PLANK DEPTH	TOPPING	LOAD INFORMATION DL (psf)	LOAD INFORMATION LL (psf)	LOAD INFORMATION SL (psf)	P/C BEARING ELEVATION
PC–1	8"	NONE	SELF WT. + 10	125	NONE	101'–8 ½"

NOTES:
1. SELF WT. NOTED IN SCHEDULE TO INCLUDE WT. OF TOPPING SLAB NOTED.
2. GROUT ALL SHEAR KEYS AND TOOL SMOOTH

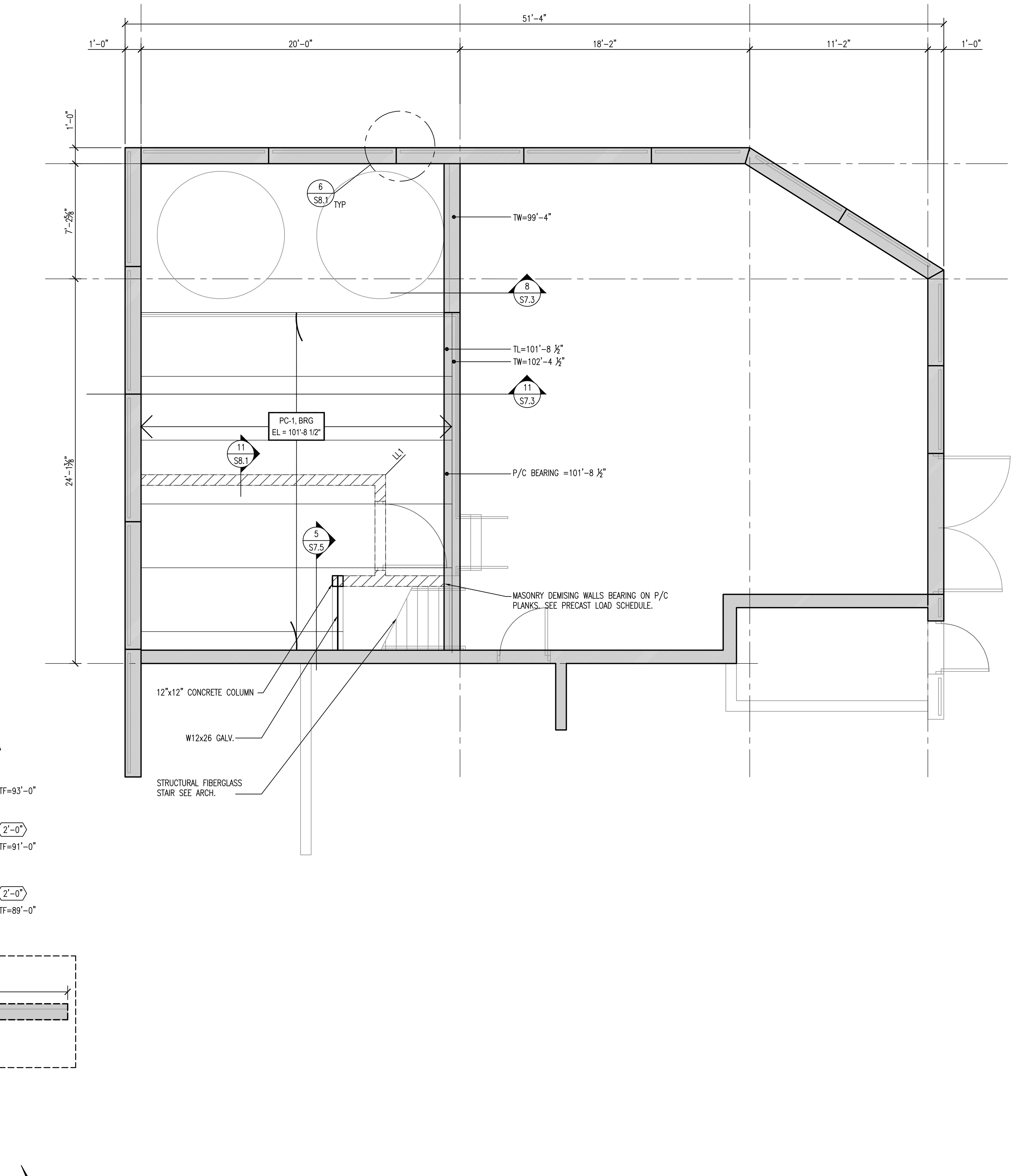
PRECAST PLANK LOAD SCHEDULE

MARK	DEAD LOAD (plf)	LIVE LOAD (plf)	SNOW LOAD (plf)
LL1	600	NONE	NONE

NOTES:
1. ALL LOADS ARE SERVICE LOADS.



1 / S5.1 SEAL HOLDING/LIFE SUPPORT FOUNDATION PLAN
SCALE: 1/4"=1'–0"



2 / S5.1 SEAL HOLDING/LIFE SUPPORT MEZZANINE
SCALE: 1/4"=1'–0"

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105 North Washington
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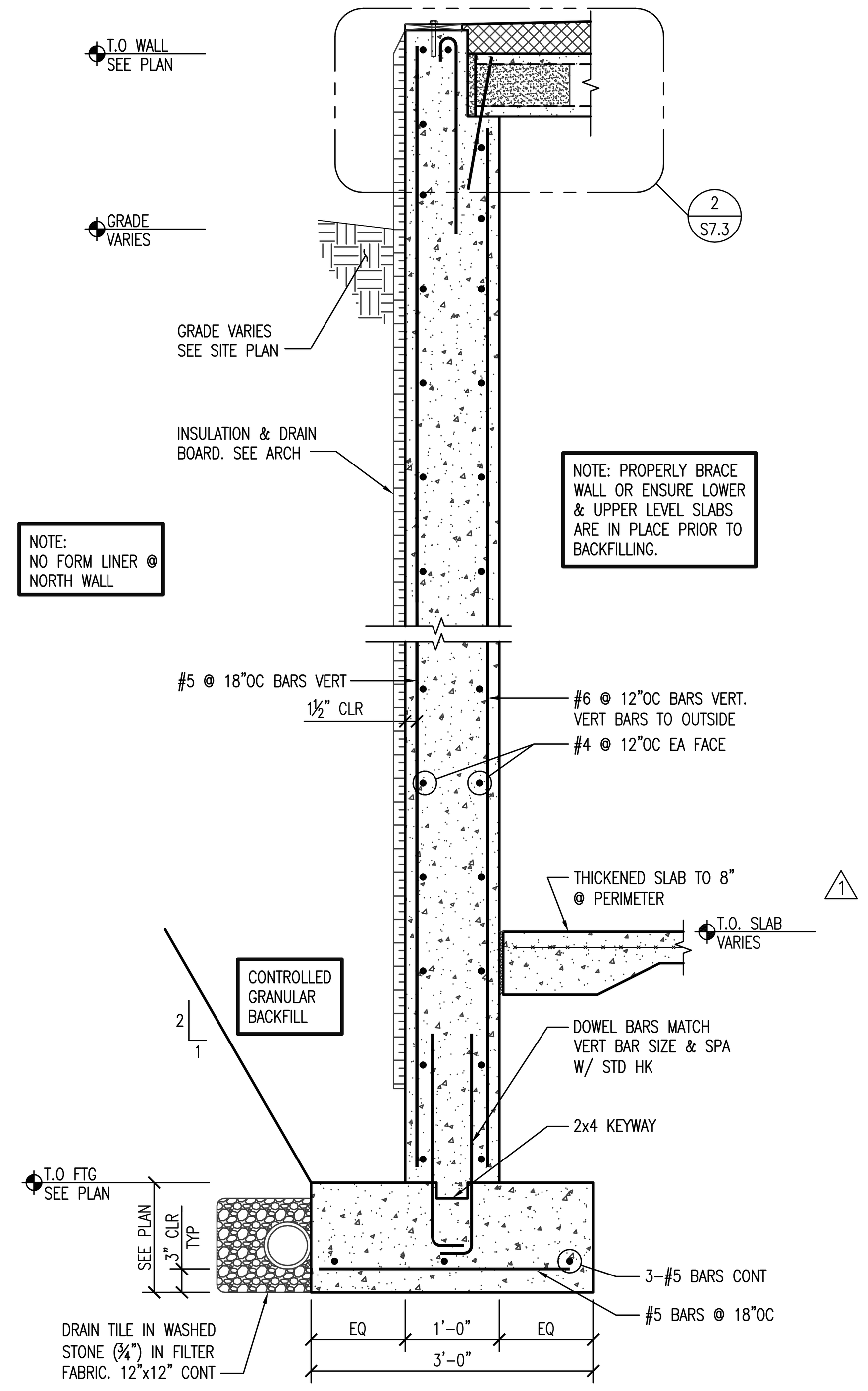
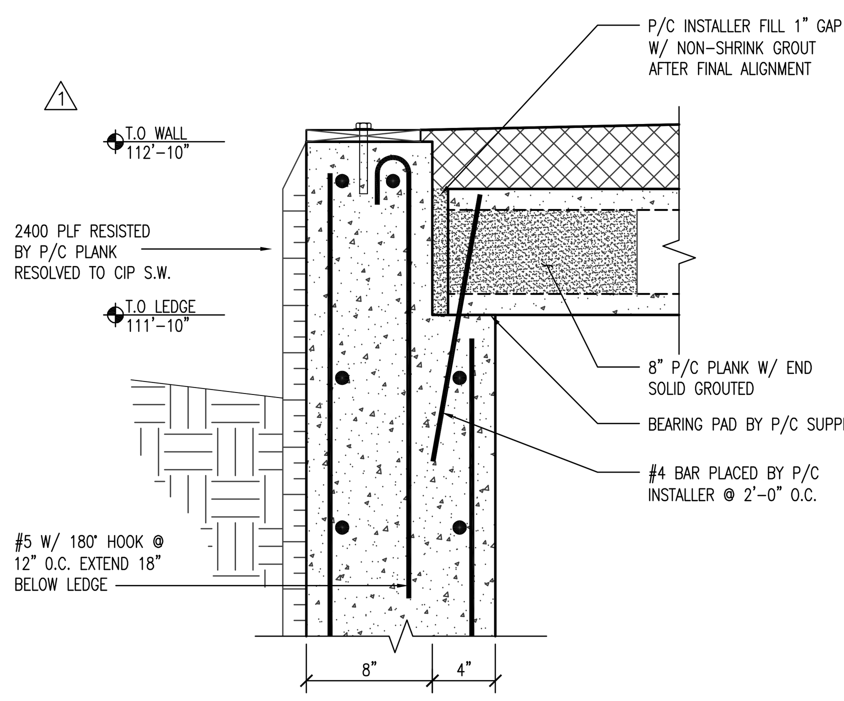
WDM No.	drawn: MP2
13046	checked: MP2

SEAL HOLDING / LIFE SUPPORT
FOUNDATION PLAN
MEZZANINE FRAMING PLAN

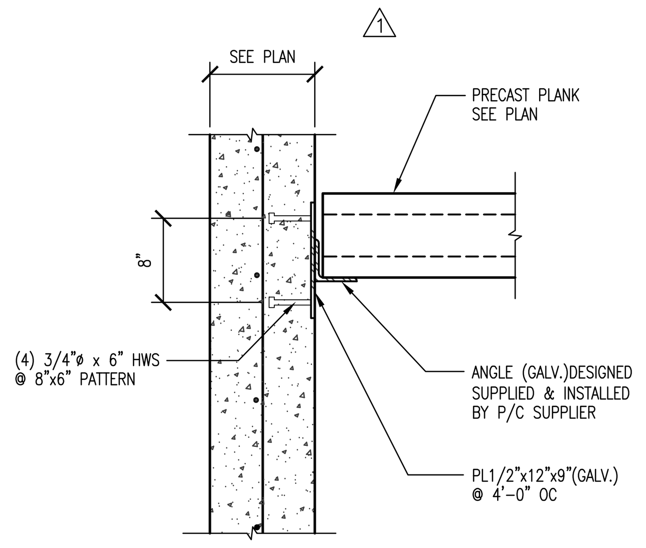
S5.1



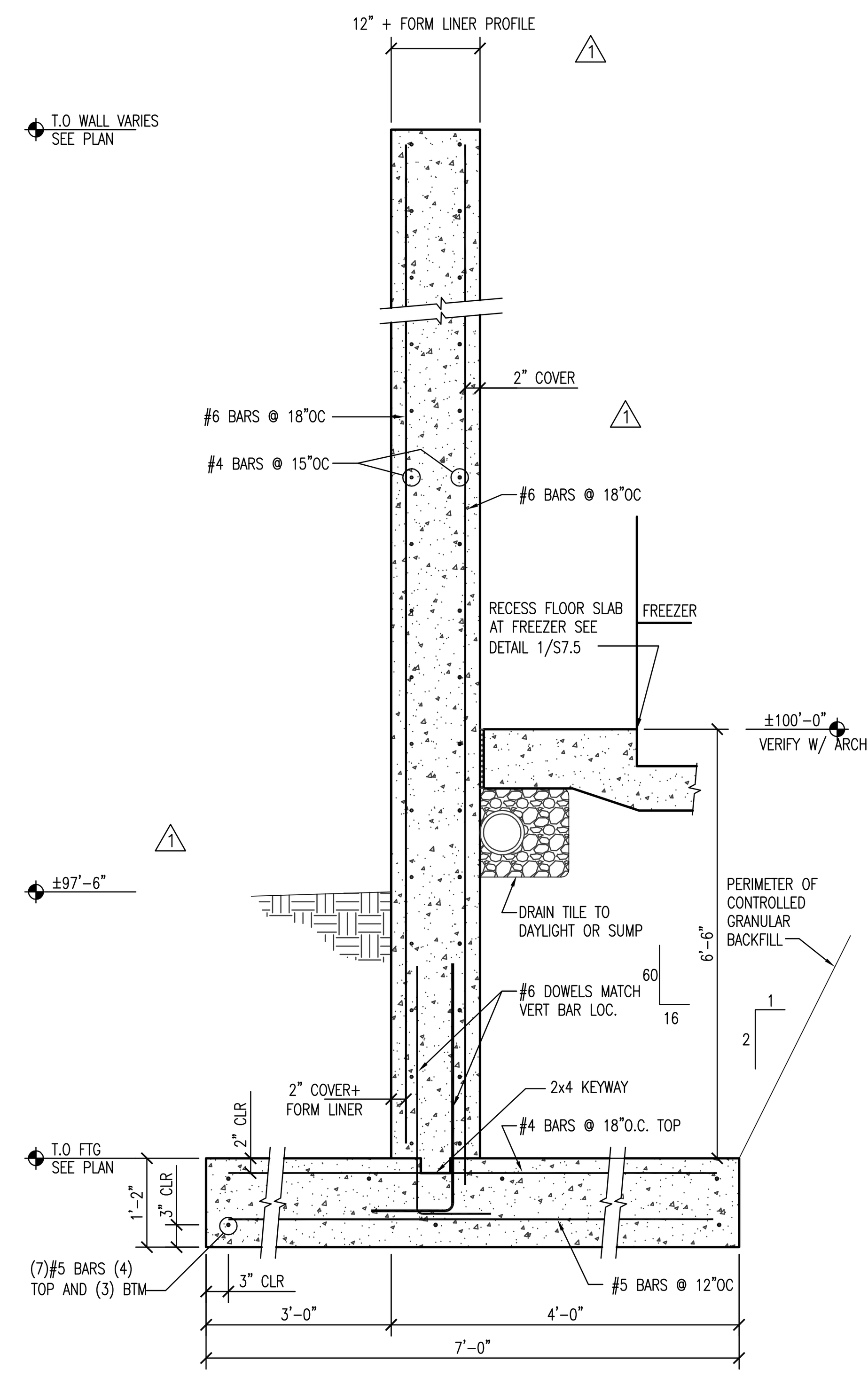
FOUNDATION SECTION AT NORTH BEAR HOLDING
1 / S7.3 SCALE: 3/4"=1'-0"



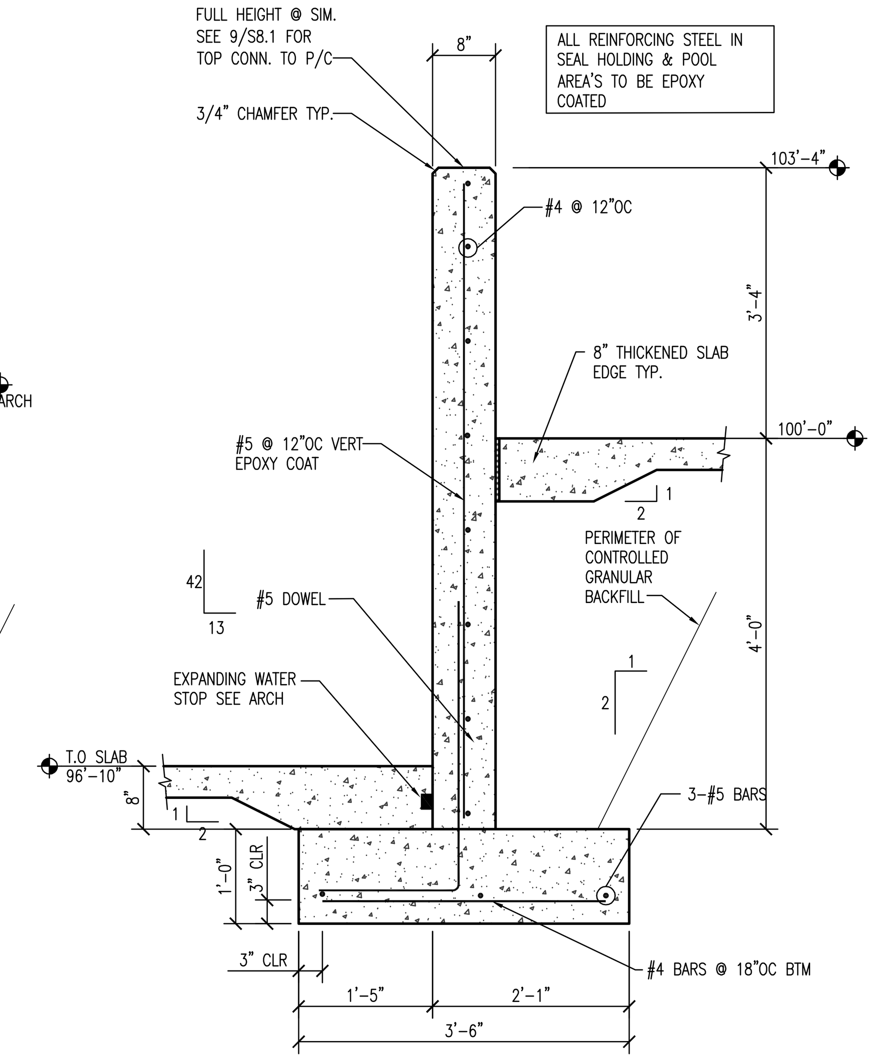
TOP NORTH BEAR HOLDING WALL
2 / S7.3 SCALE: 1 1/2"=1'-0"



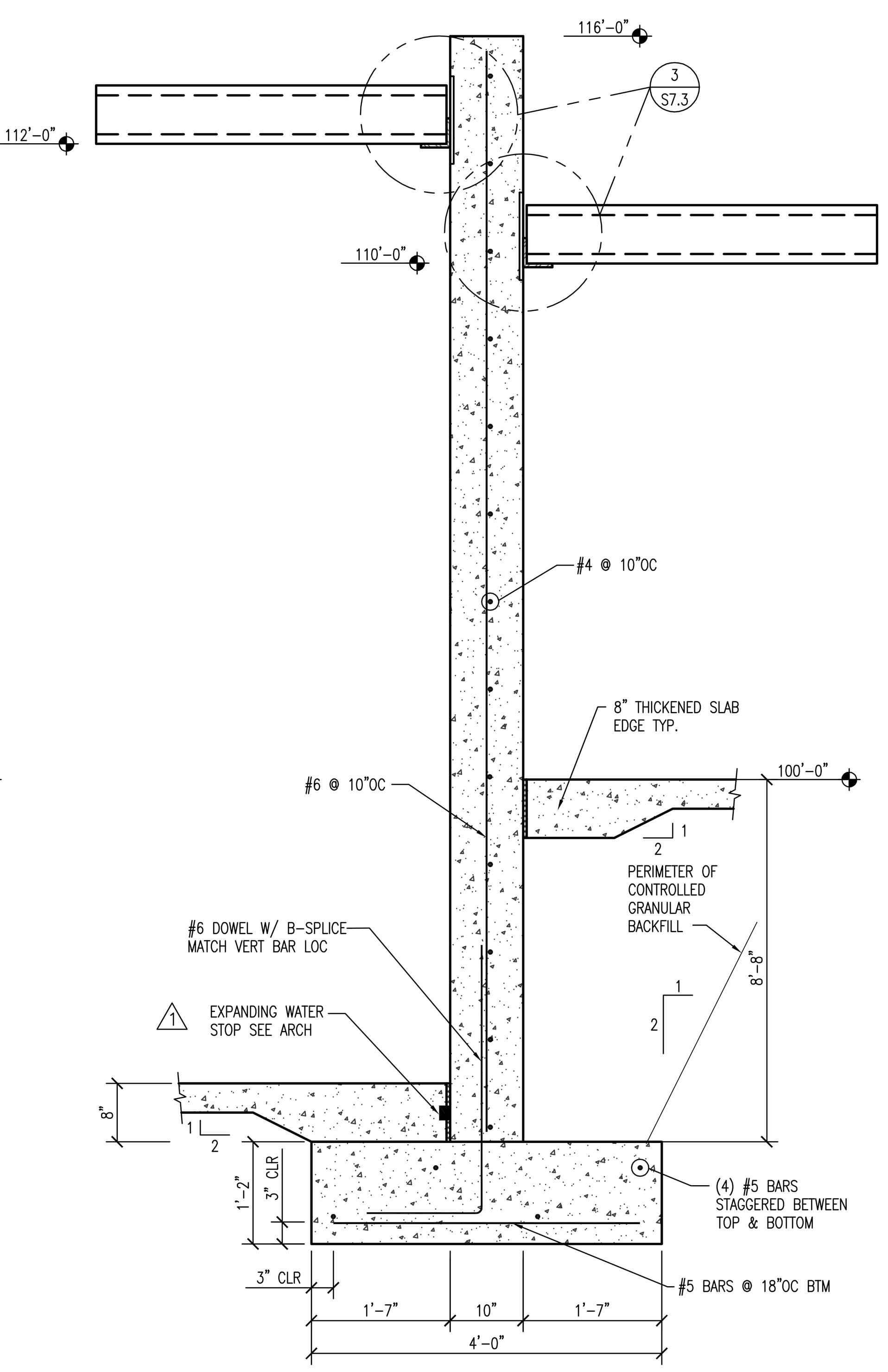
SEAL PC ROOF TO CIP WALL
3 / S7.3 SCALE: 1"=1'-0" S3-018



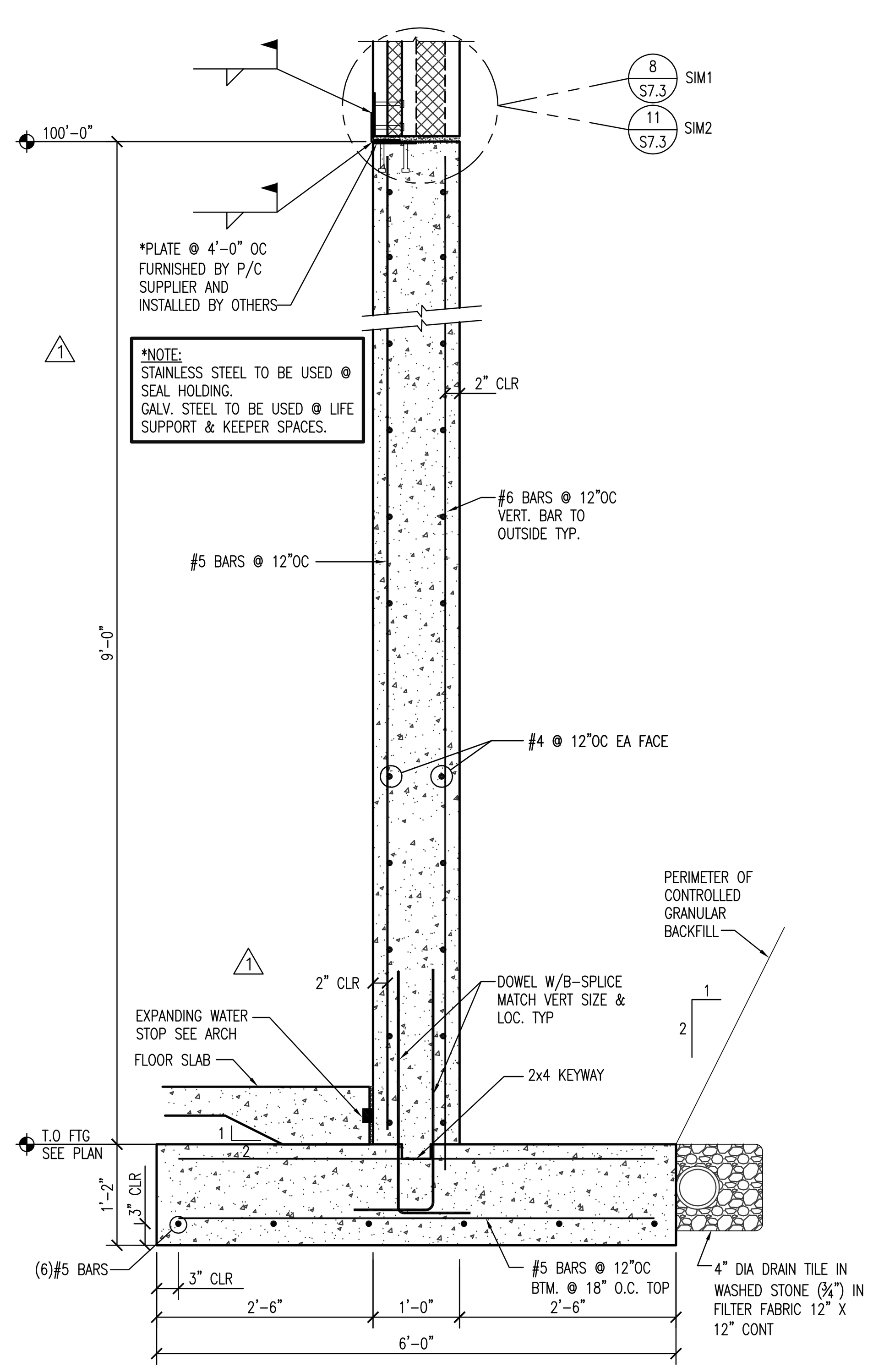
SEAL SCREEN WALL @ FREEZER
4 / S7.3 SCALE: NTS



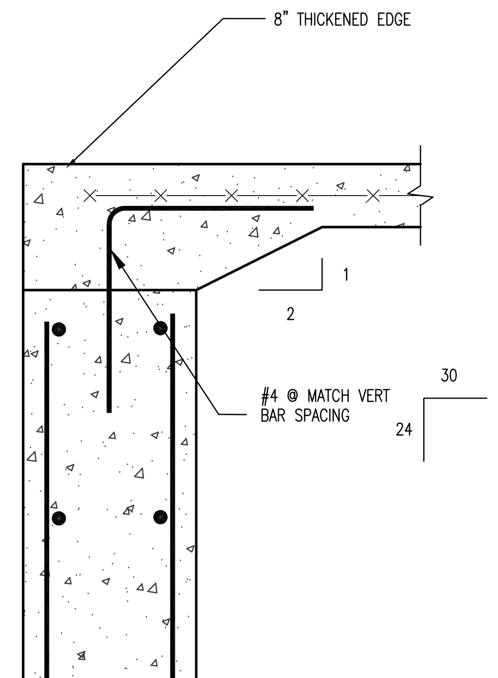
SEAL WALL @ INTERIOR POOL
5 / S7.3 SCALE: 3/4"=1'-0"



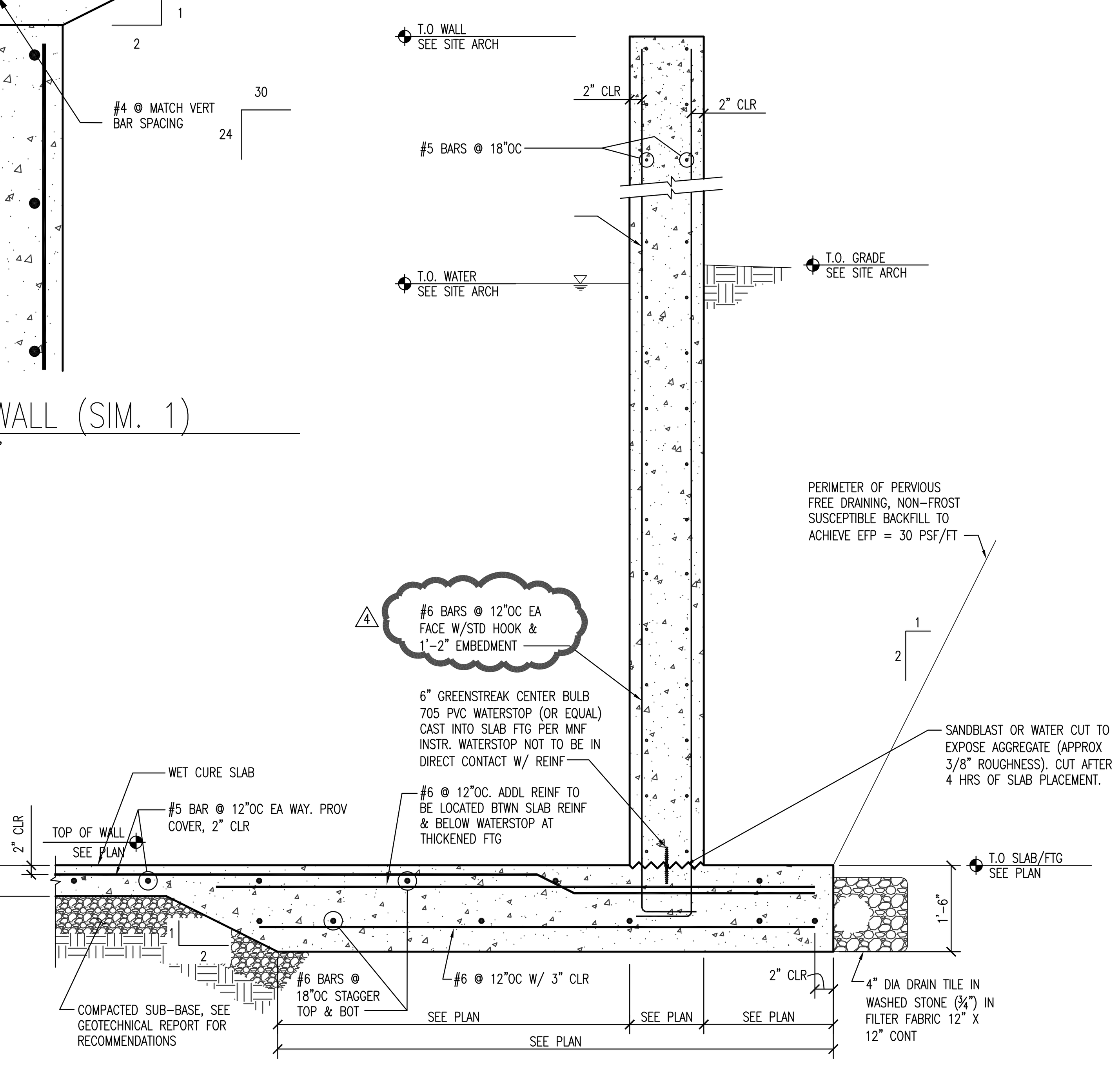
SEAL WALL
6 / S7.3 SCALE: 3/4"=1'-0"



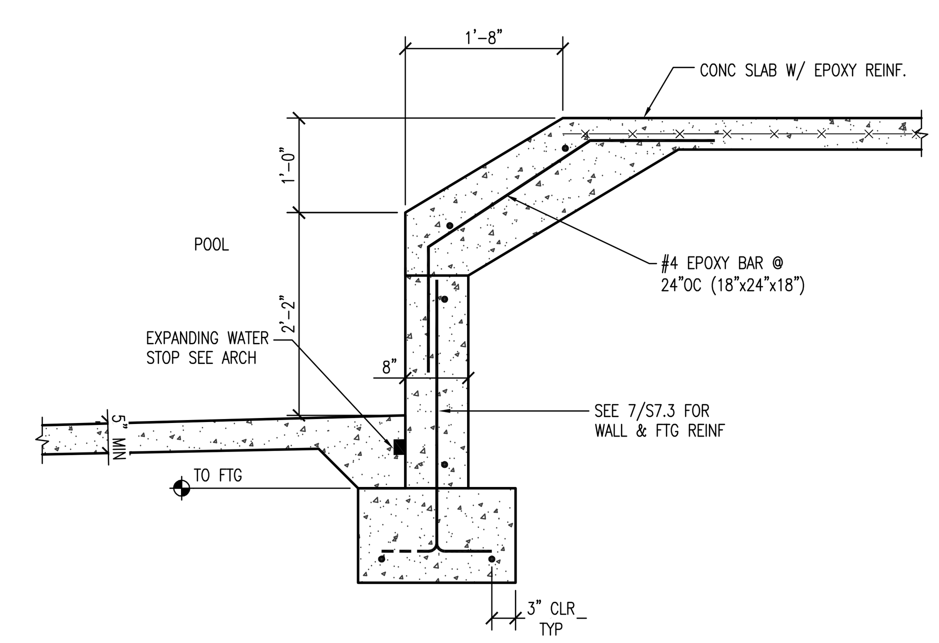
SEAL FOUNDATION WALL AT MEZZ
7 / S7.3 SCALE: NTS



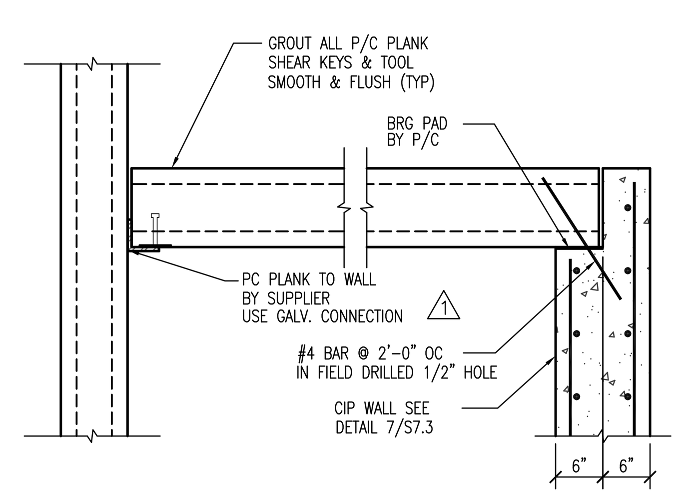
TOP OF WALL (SIM. 1)
8 / S7.3 SCALE: 1 1/2"=1'-0"



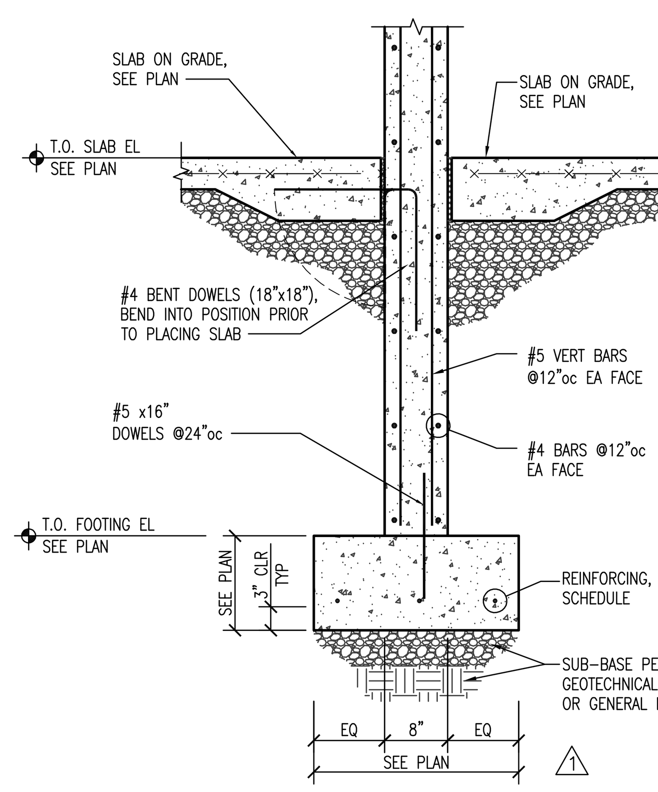
POOL WALL SECTION
9 / S7.3 SCALE: NTS



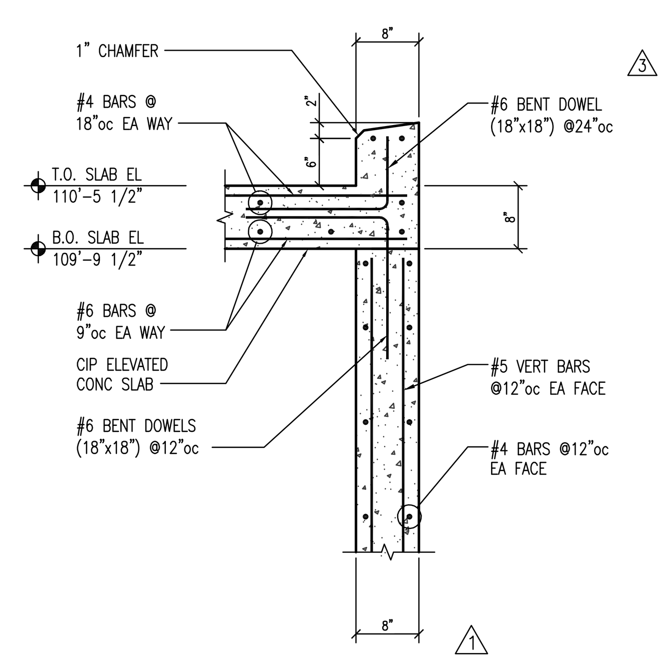
SEAL WALL @ POOL
10 / S7.3 SCALE: 3/4"=1'-0"



SEAL MEZZ DETAIL (SIM2)
11 / S7.3 SCALE: 3/4" = 1'-0"



BEAR DEN WALL (ALT BID)
12 / S7.3 SCALE: 3/4" = 1'-0"



BEAR DEN WALL (ALT BID)
13 / S7.3 SCALE: 3/4" = 1'-0"

ALL REINFORCING STEEL IN SEAL HOLDING & POOL AREA'S TO BE EPOXY COATED

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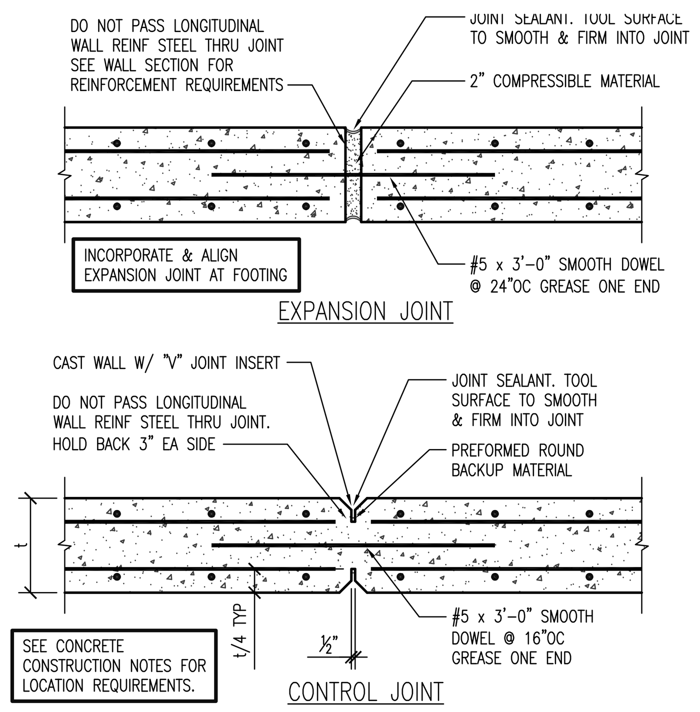
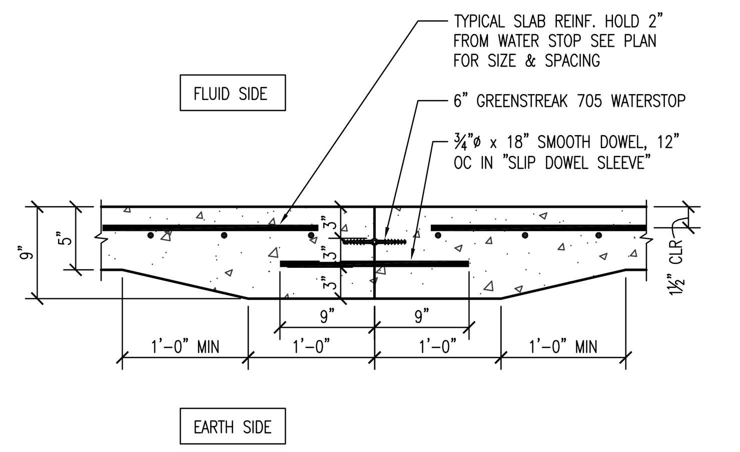
FOUNDATION DETAILS

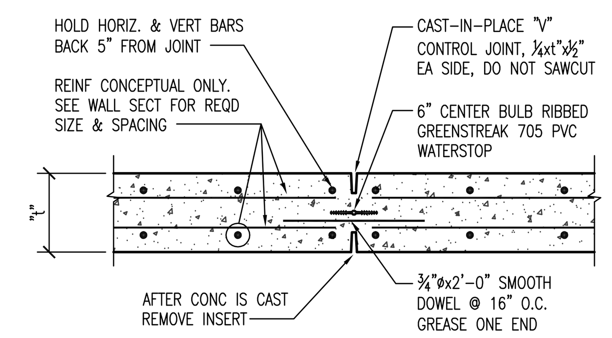
S7.3



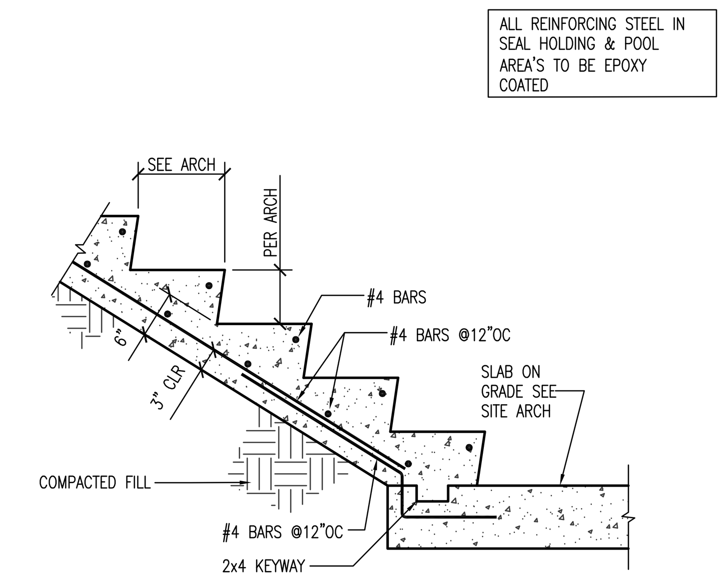
1 S7.4 RETAINING WALL JOINTS
SCALE: 3/4"=1'-0"



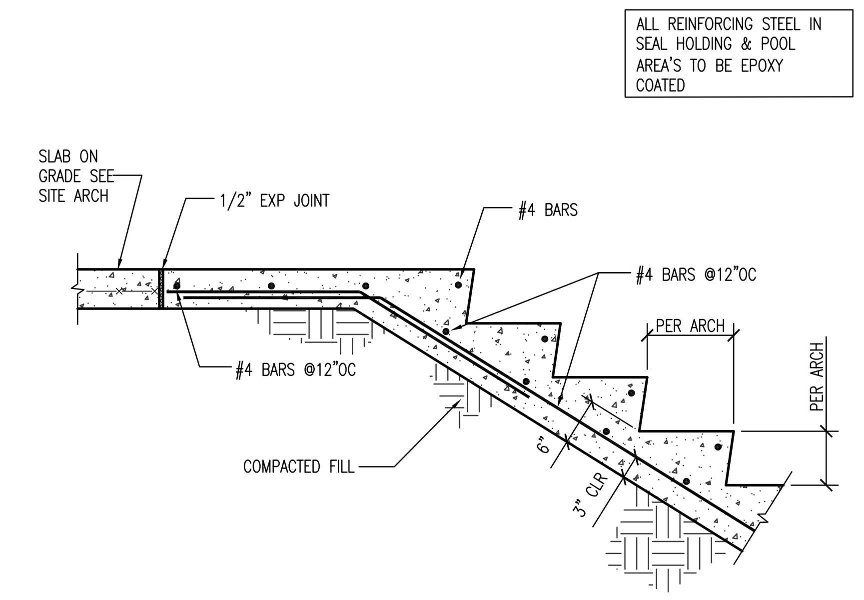
2 S7.4 POOL SLAB CONSTRUCTION JOINT
SCALE: NTS



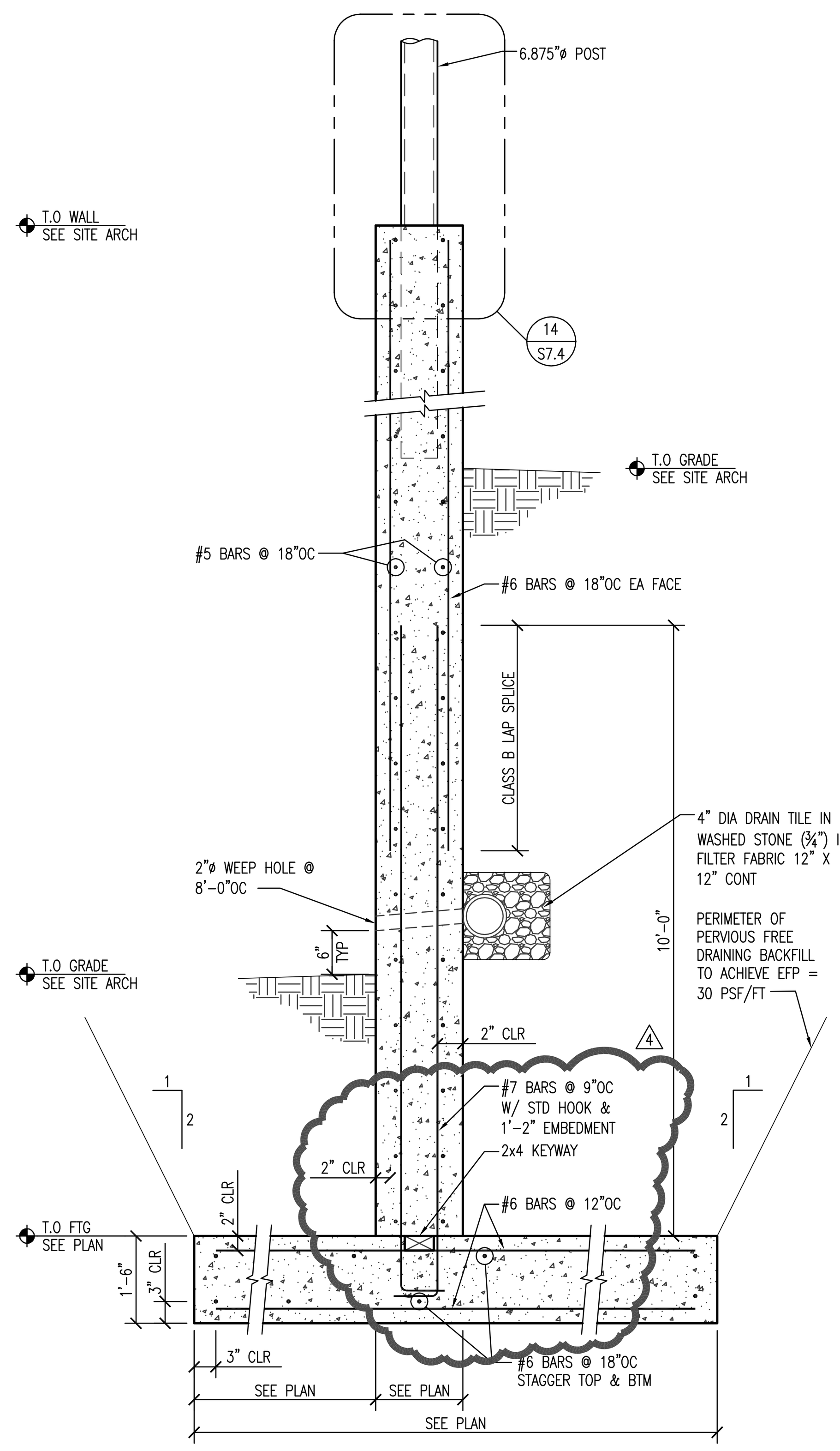
3 S7.4 POOL WALL CONSTRUCTION /CONTROL JOINT
SCALE: NTS



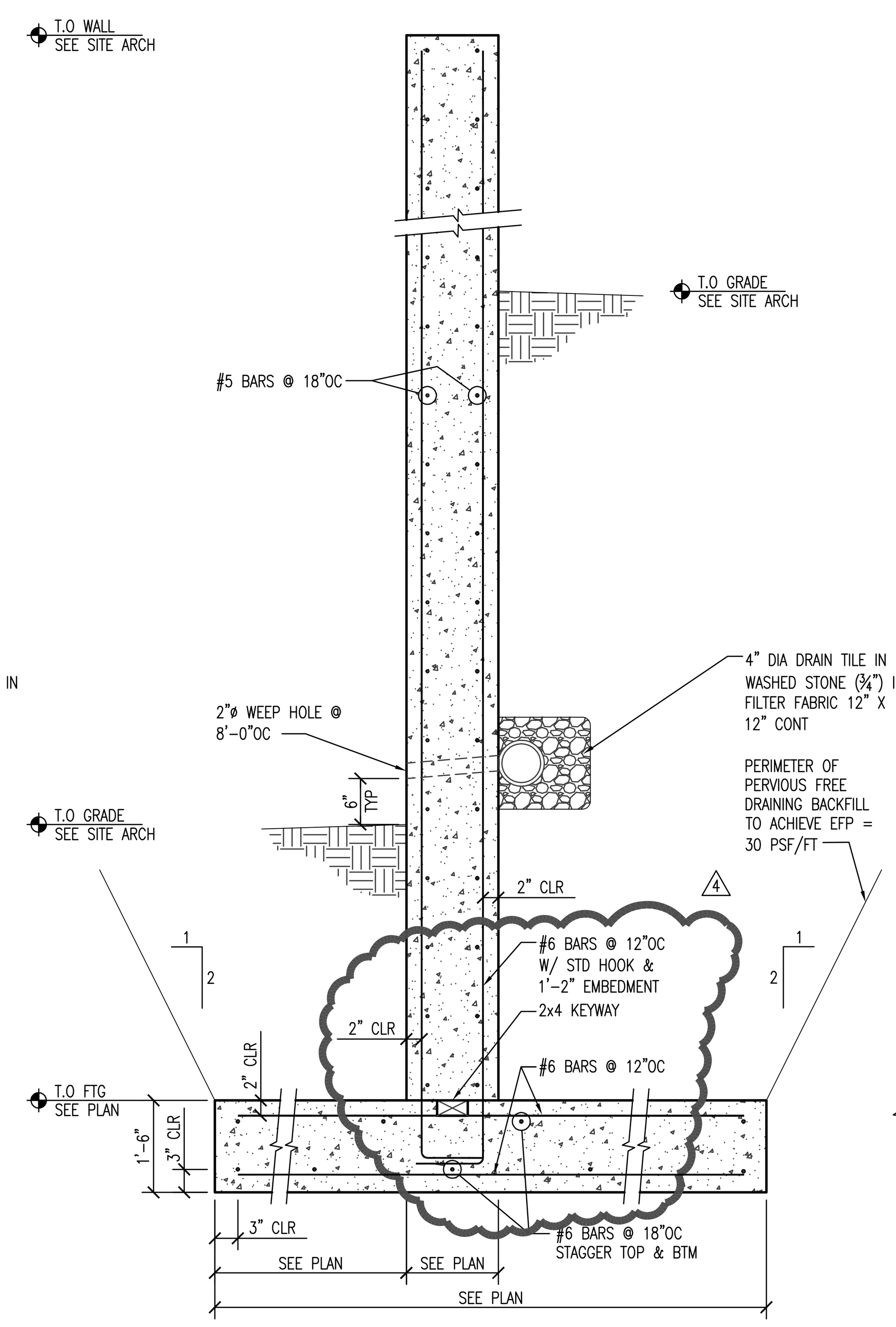
4 S7.4 CONCRETE STAIR SECTION
SCALE: 3/4"=1'-0"



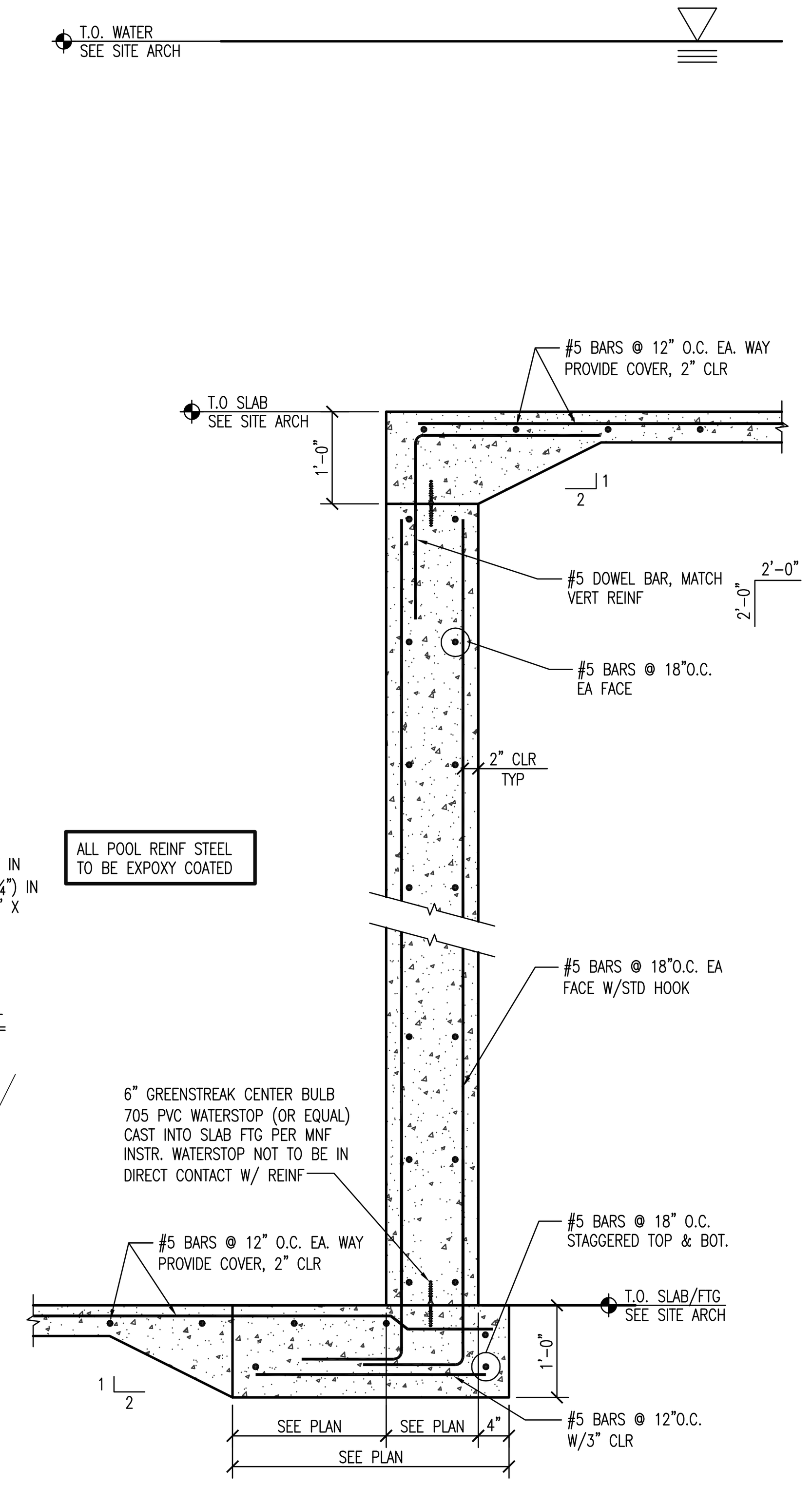
5 S7.4 CONCRETE STAIR SECTION
SCALE: 3/4"=1'-0"



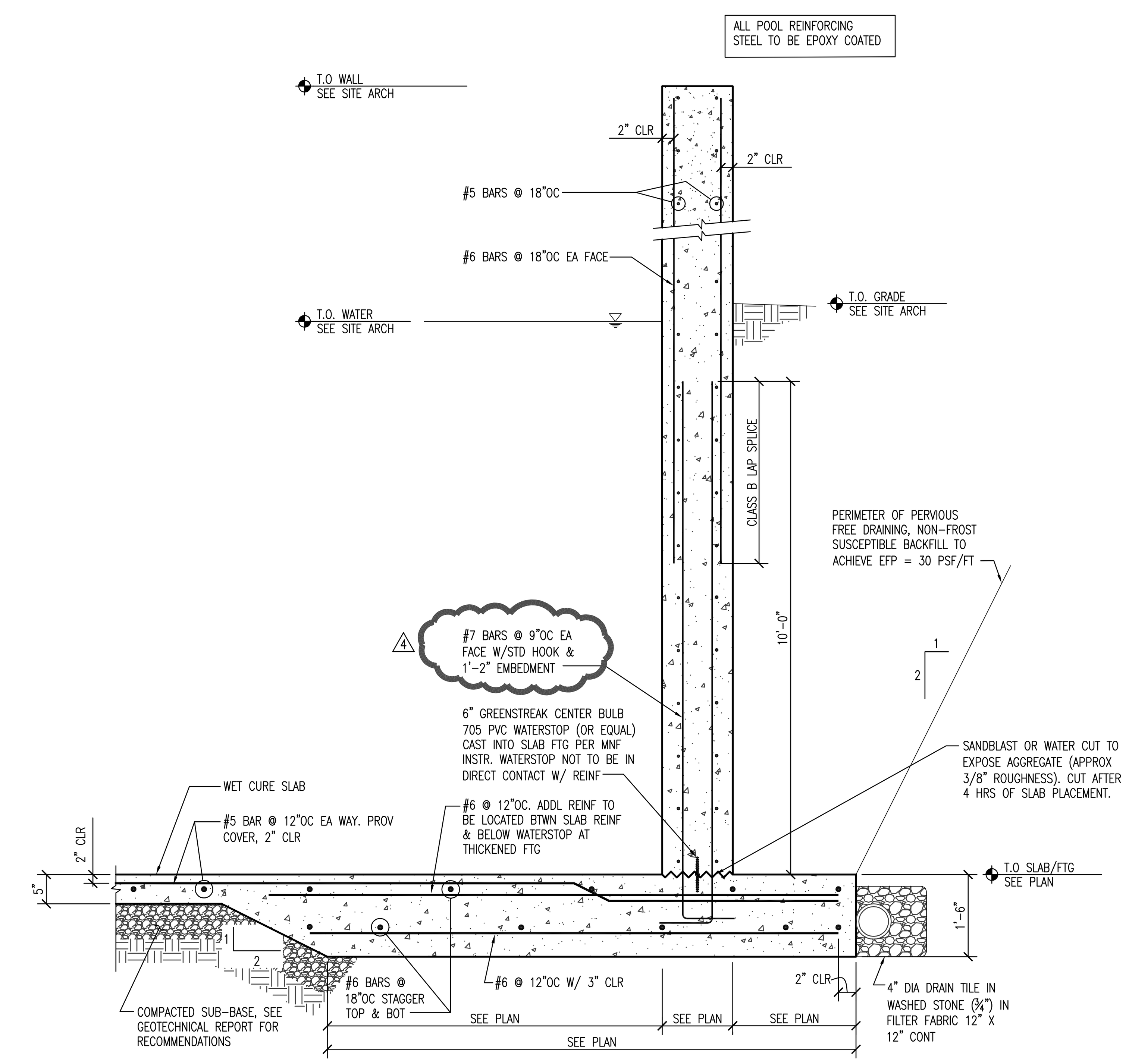
6 S7.4 RETAINING WALL SECTION
SCALE: NTS



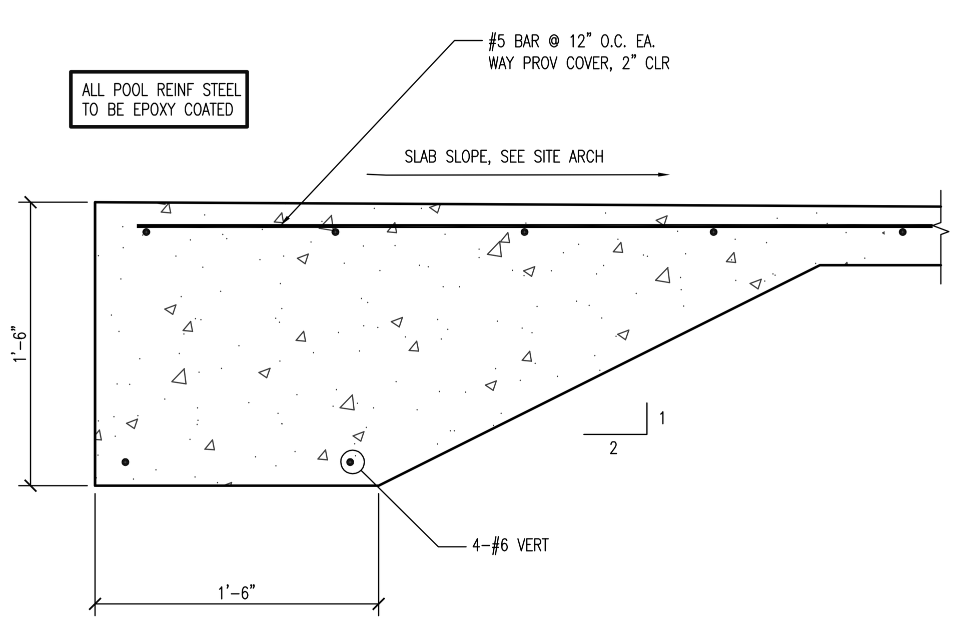
7 S7.4 RETAINING WALL SECTION
SCALE: NTS



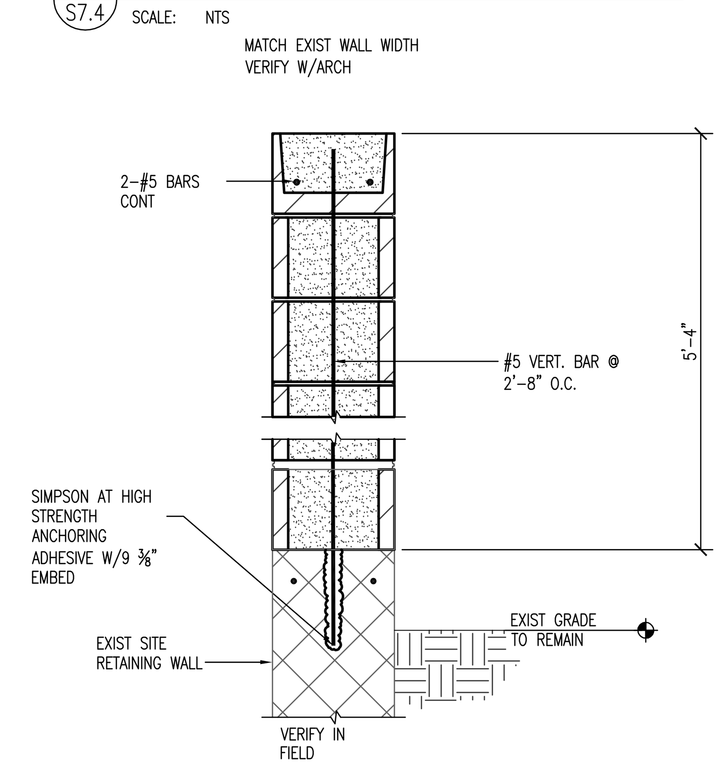
8 S7.4 POOL WALL SECTION
SCALE: 3/4"=1'-0"



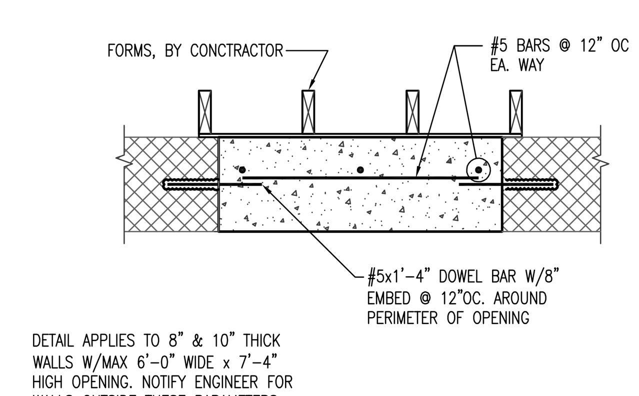
9 S7.4 POOL WALL SECTION
SCALE: NTS



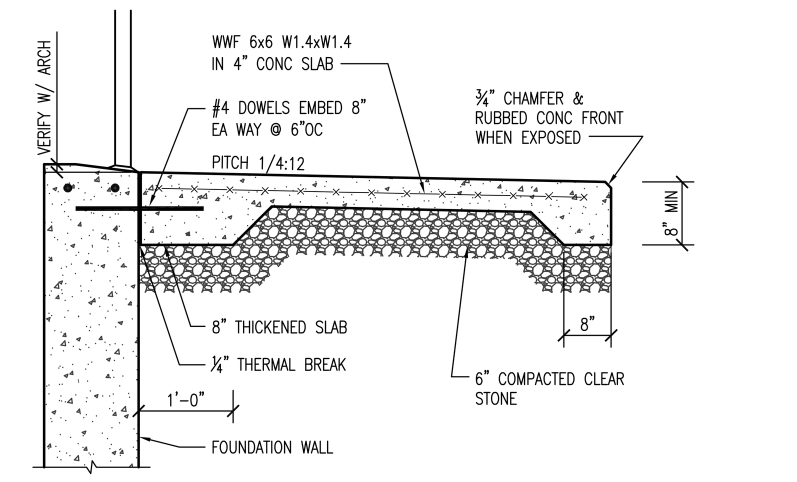
10 S7.4 POOL SLAB EDGE @ ZERO DEPTH
SCALE: 1 1/2" = 1'-0"



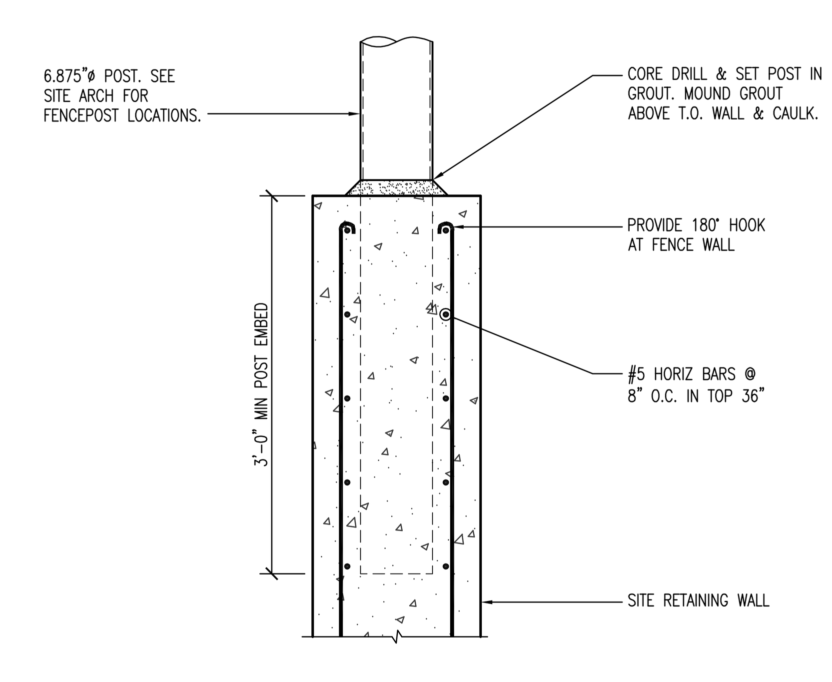
11 S7.4 5'-4" EXTENSION AT EXIST SITE RETAINING WALLS
SCALE: 1"=1'-0"



12 S7.4 TYP. EXIST CIP WALL INFILL
SCALE: 3/4"=1'-0"



13 S7.4 STOOP ON GRADE
SCALE: 3/4"=1'-0"



14 S7.4 FENCE POST EMBEDMENT
SCALE: 1"=1'-0"

(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201 Madison, WI 53719 Office: 608-821-4770 Fax: 608-821-4780

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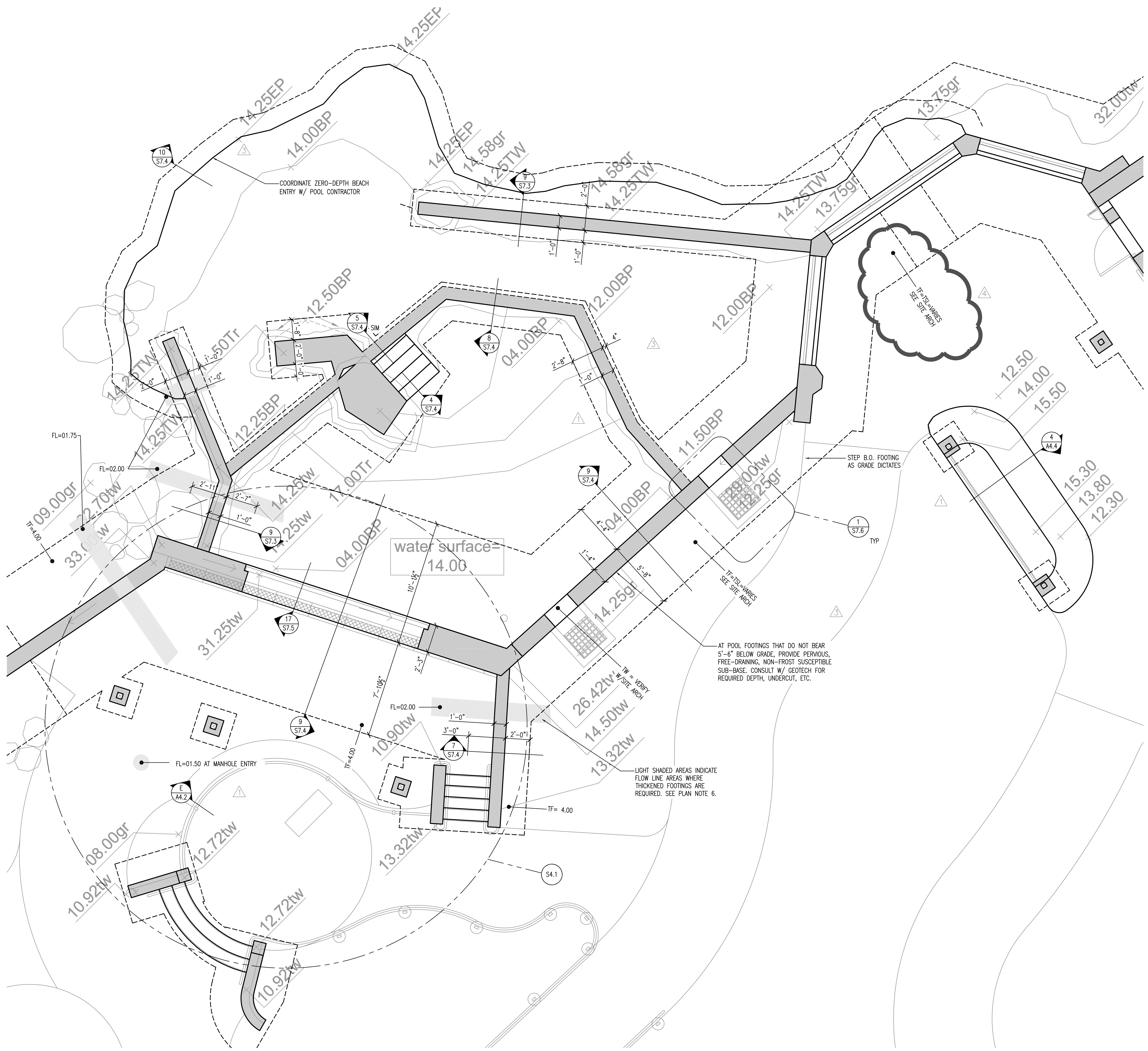
WDM No. 13046 drawn: MP2 checked: MP2

FOUNDATION DETAILS

S7.4



1 SR1.3 BEAR POOL WALL PLAN

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

PLAN NOTES

1. RETAINING WALLS SIZED USING THE FOLLOWING PRESUMPTIVE PARAMETERS:
   ALLOWABLE BEARING PRESSURE= 2,000 PSF
   EFP (ACTIVE) = 30 PSF
2. WALL THICKNESS SHOWN ON THE PLANS IS THE MINIMUM THICKNESS REQUIRED & DOES NOT INCLUDE FORM LINER PROFILE. INCREASE WALL THICKNESS AS REQUIRED TO ACCOMMODATE FORM LINER. SEE ARCH FOR FORM LINER SPECIFICATION.
3. GEOTECHNICAL INFORMATION TAKEN FROM CGC EXPLORATION REPORT. SEE S0.1.
4. SEE SHEET S7.4 DETAIL 11 FOR EXTENSION AT EXISTING SITE RETAINING WALLS.
5. SEE SHEET S7.4 DETAIL 12 FOR TYPICAL EXISTING CAST-IN-PLACE WALL OPENING INFILL REQUIREMENTS.
6. THICKEN FOOTING IN LOCATIONS INDICATED TO ACHIEVE 6" CONCRETE BELOW FLOW LINE ELEVATIONS PER SA6.0 UNDERSLAB DRAINAGE PLAN.
7. SEE SHEET S7.5 DETAILS 15 & 16 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS, UNLESS NOTED OTHERWISE.
8. REFERENCE SITE ARCH FOR ALL WALL OPENING LOCATIONS & SIZES.
9. SEE SHEET S7.4 DETAIL 1 FOR CONTROL JOINT & EXPANSION JOINT REQUIREMENTS.
10. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & WALL CORNER REINFORCING.
11. SEE SHEET S7.6 DETAIL 4 FOR REINFORCEMENT AT POOL LEVEL SENSOR.

(mp)² STRUCTURAL ENGINEERS, LLC

WDM ARCHITECTS

WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

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henry vilas ZOO

ARCTIC ANIMAL EXHIBIT AND CONCESSIONS

RFB No. 313086

Henry Vilas Zoo - County of Dane

Henry Vilas Zoo
702 S Randall Ave
Madison, Wisconsin

Department of Public Works
1919 Alliant Energy Center Way
Madison, Wisconsin

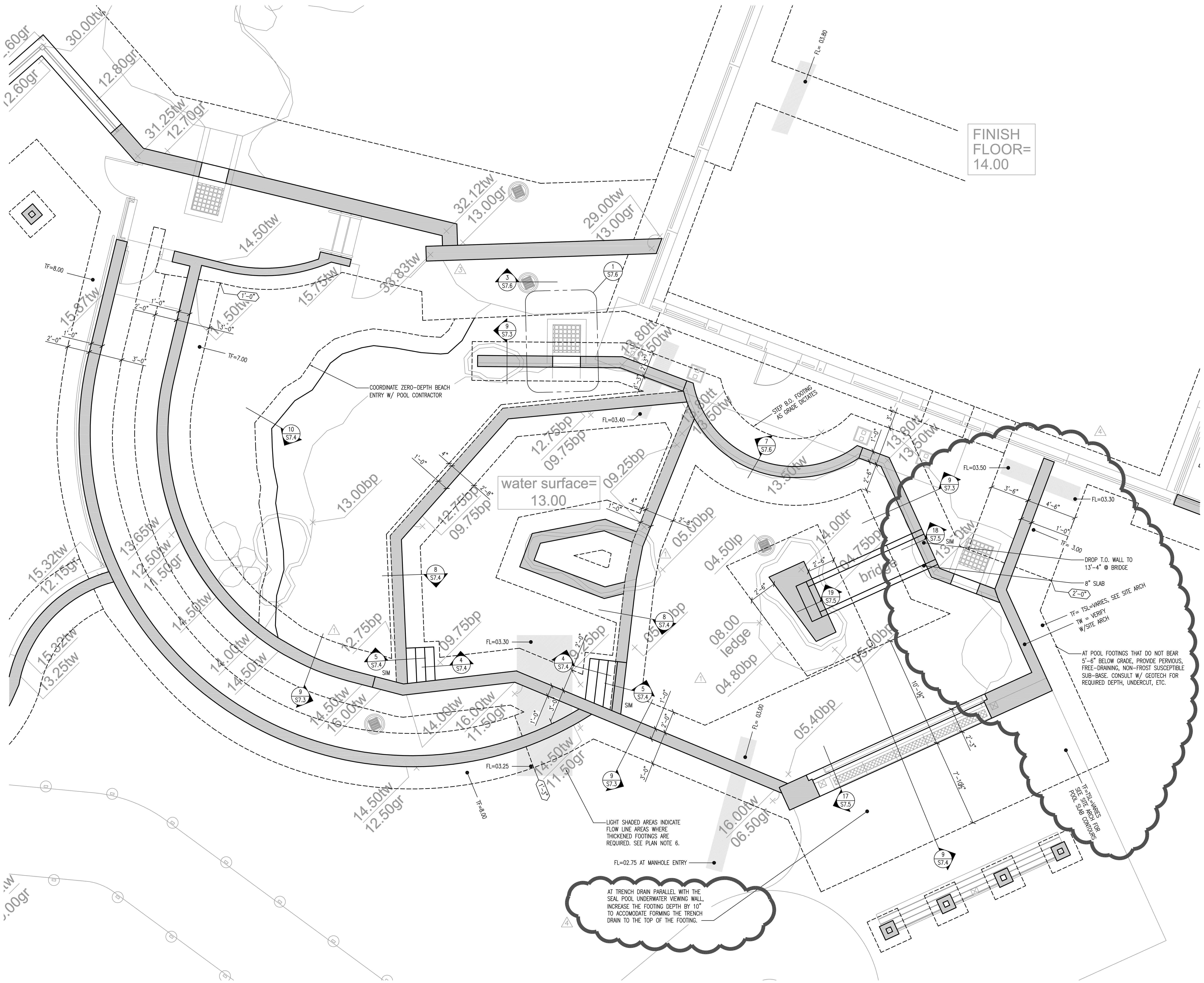
PRINTS ISSUED

- 07.26.2013 - Schematic Design
- 08.23.2013 - Design Development
- 09.23.2013 - 65% CD's
- 10.07.2013 - Pricing Set
- 10.21.2013 - 95% CD's
- 11.13.2013 - Bid Documents
- 1 11.25.2013 - Addendum #3
- 2 11.27.2013 - Addendum #4
- 3 12.04.2013 - Addendum #5
- 4 12.09.2013 - Addendum #6

WDM No.	drawn: MP2
13046	checked: MP2

BEAR POOL WALL PLAN

SR1.3



1 SR1.4 SEAL POOL WALL PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES

1. RETAINING WALLS SIZED USING THE FOLLOWING PRESUMPTIVE PARAMETERS:
   ALLOWABLE BEARING PRESSURE= 2,000 PSF
   EFP (ACTIVE) = 30 PSF
2. WALL THICKNESS SHOWN ON THE PLANS IS THE MINIMUM THICKNESS REQUIRED & DOES NOT INCLUDE FORM LINER PROFILE. INCREASE WALL THICKNESS AS REQUIRED TO ACCOMMODATE FORM LINER. SEE ARCH FOR FORM LINER SPECIFICATION.
3. GEOTECHNICAL INFORMATION TAKEN FROM CGC EXPLORATION REPORT. SEE S0.1.
4. SEE SHEET S7.4 DETAIL 11 FOR EXTENSION AT EXISTING SITE RETAINING WALLS.
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WDM No.	drawn:	MP2
13046	checked:	MP2

SEAL POOL WALL PLAN

SR1.4