



CITY OF PROVIDENCE, RHODE ISLAND

Department: Parks

RFP Title: Site Improvements at James Ahern Park

Opening Date: 11/18/2024

Addendum #: 3

Issue Date: 11/8/2024

The purpose of this addendum is:

See attached



WENDY NILSSON
Superintendent of Parks

BRETT P. SMILEY
Mayor

Addendum # 3

SITE IMPROVEMENTS AT JAMES AHERN PARK

November 8, 2024

Total Pages Including Cover (35 Pages)

Acknowledge Addenda on Bid Form

**** BID DUE DATE MONDAY, NOVEMBER 18, 2024, AT 2:15PM ****

Attachments:

1. Addendum Cover Sheet (1 Page)
2. Pre-Bid Meeting Sign-In Sheet (1 Page)
3. RFP Bid Documents & Unit Pricing (11 Pages)
4. Plan Set (13 Pages)
5. Technical Specifications (9 Pages)

Questions/Clarifications:

1. RFP Unit Prices – Base Bid: items #5, 6, 7 and #12 have been updated. Unit Prices - Add Alts: item #10 has been updated.
2. Add Alt #13 – **F&I Corrugated Roofs on Ex. Dugouts** – plan details have been updated for clarification.
3. Technical Specifications for the Water Park Splash Pad updated to include Vortex accessories.
4. Other drawings and details amended as shown in plan set.

PROVIDENCE PARKS DEPARTMENT
1000 Elmwood Avenue, Providence, RI 02905
Phone: 401-680-7201

Sign-In Sheet

Non-Mandatory Pre-Bid Meeting

Wednesday, November 6, 2024 at 11 AM – 1 Wallace St, Providence, RI (Site)

Project: Site Improvements at James Ahern Park

NAME	COMPANY	E-MAIL	PHONE
Chris Reynolds	Dubon masonry	ESTIMATING @ DUBON MASONRY.COM	401-500-5062
JR Dubon	Dubon Masonry	ESTIMATING @ DUBON MASONRY.COM	401-280-8863
Paul	South East Fence	paul@southeastfence.com	508-947-4063
MICHAEL CRYMOR	SIXTH TREE #	MICHAEL@SIXTHTREE.COM	401-472-2263



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CITY OF PROVIDENCE, RHODE ISLAND**

BID PACKAGE SPECIFICATIONS

Project Description:

James Ahern Park is located in the east end of the Silver Lake neighborhood. The goal of this project is to bring much needed upgrades to the park’s waterpark, playground, and infrastructure. The waterpark, will be completely revamped to provide new and improved interactive water features, which utilize less water and will have a bioretention area incorporated into the splashpad.

BASE BID: The Base Bid scope of work for this project shall include, but not be limited to the following:

- R&D existing and F&I new Splashpad including water features, P&E manifold system to the concession stand
- R&D ex. and F&I Asphalt Walk and base
- F&I Shade Sail, Picnic Tables and Benches, Green Infrastructure and Trees
- F&I Spinners to the playground area
- F&I Chain Link Fencing & Service Gate
- F&I Basketball Hoops

ADD ALTERNATES include:

- R&D existing and F&I Concrete Staircase Landings
- F&I Playground Equipment
- R&D Chain Link Fence and F&I Welded Wire Fence
- F&I Stormwater Attenuation Terrace
- R&D ex. and F&I Asphalt Walk and Base
- F&I Corrugated Metal Roofs to Dugouts
- F&I MUGA (Multi-Use Game Area)

In addition to stating the Total Base Bid, the bidder shall state Unit Prices for related work listed under each bid item which represents the work items included in the Total Base Bid. The Unit Prices are quoted for computing adjustments to the Base Bid prior to Contract award, as well as during the course of construction, based upon extra work ordered by the City or for work countermanded, reduced or omitted by the City in order to stay within the Project budget.

Base Bid Items and Unit prices are to be Completed prices to be added or deducted on the basis of quantities of work involved, for each item in place in the unit indicated.

All Work Included in this Project Shall be Completed for the lump sum of:

_____ Dollars
(\$ _____), **TOTAL BASE BID**

ALLOWANCE: \$35,000.00

BASE BID W/ ALLOWANCE: \$ _____

BIDDER: _____

Please note that the list above is not intended to include all items required to complete the base bid scope of work but can and shall be used to adjust the contract prior to or after award – in the best interest of the City of Providence.



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ABBREVIATIONS

R&S	Remove & Stockpile	F&I	Furnish & Install	SF	Square Foot
R&D	Remove & Dispose	LS	Lump Sum	FL	Flat (a tray containing multiple units/plugs)
D&I	Deliver & Install, owner provided	EA	Each		
CY	Cubic Yard	LF	Linear Foot		
TN	Ton	LB	Pound		
		R&R	Remove & Reinstall		

ADD ALTERNATES:

- 1. Add Alt #1: Southern Staircase Landings – R&D existing concrete and asphalt landings and F&I new concrete landings, as per plans, complete. - Per Lump Sum**

_____ LS \$ _____
price in writing

- 2. Add Alt #2: Western Staircase Landings – R&D existing concrete and asphalt landings and F&I new concrete landings, as per plans, complete. - Per Lump Sum**

_____ LS \$ _____
price in writing

- 3. Add Alt #3: F&I Playworld Spinami, or approved equal, in the playground area, complete. - Per Lump Sum**

_____ LS \$ _____
price in writing

- 4. Add Alt #4: South Facing Fence – R&D Ex. Chain Link Fence and Poles; F&I 4' ht. Welded Wire Mesh Fencing as per plans, complete. - Per Lump Sum**

_____ LS \$ _____
price in writing

- 5. Add Alt #5: West Facing Fence – R&D Ex. Chain Link Fence and Poles; F&I 4' ht. Welded Wire Mesh Fencing as per plans, complete. - Per Lump Sum**

_____ LS \$ _____
price in writing

BIDDER: _____



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6. Add Alt #6 – Strip Turf to 12" and F&I Stormwater Attenuation Terrace with Drainage from Splashpad Bioretention Area, as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

7. Add Alt #7 – F&I Kompan MUGA (Multi-Use Game Area) or approved equal with Synthetic Turf, Pressure Treated Lumber Edging, and ADA Asphalt Entry Node, as per plans and specifications, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

8. Add Alt #8 – R&D Ex. and F&I Asphalt Walk and Base with Rolldown Curb as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

9. Add Alt #9 – R&D Ex. and F&I Asphalt Walk and Base as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

10. Add Alt #10 – R&D Ex. and F&I Asphalt Walk and Base as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

11. Add Alt #11 – R&D Ex. and F&I Asphalt Walk and Base as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

12. Add Alt #12 – R&D Ex. and F&I Asphalt Walk and Base as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

BIDDER: _____



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13. Add Alt #13 – F&I Corrugated Roofs on Ex. Dugouts as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

14. Add Alt #14 – F&I (2) *Nyssa sylvatica* ‘Wildfire’ – Wildfire Tupelo, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

UNIT PRICES – BASE BID:

1. F&I Temporary Tree Protection, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

2. F&I Silt Sock, Sedimentation and Erosion controls, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

3. R&D Asphalt Walk and Base, complete. – Per Square Foot

_____ SF \$ _____
price in writing

4. R&D Basketball Backboards, Hoops and Posts as per plans, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

5. R&D Splashpad including concrete and base, all subgrade waterlines and splashpad features, complete. – Lump Sum

_____ LS \$ _____
price in writing

BIDDER: _____



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6. R&S manifold cabinet enclosure, complete. – Lump Sum

_____ **LS** \$ _____
price in writing

7. R&R Ex. Maestro 2 Controller and Power Box, complete. – Lump Sum

_____ **LS** \$ _____
price in writing

8. R&S Precast Concrete Curb, complete. – Per Each

_____ **EA** \$ _____
price in writing

9. R&S Splashpad Benches, complete. – Per Lump Sum

_____ **LS** \$ _____
price in writing

10. R&D Picnic Tables, complete. – Lump Sum

_____ **LS** \$ _____
price in writing

11. R&D Chain Link Fencing, R&S Gates and Hinges as per plans, complete. – Per Lump Sum

_____ **LS** \$ _____
price in writing

12. R&D Metal Playground Benches and Footings, complete. – Lump Sum

_____ **LS** \$ _____
price in writing

13. F&I Asphalt Walk and Base, complete. – Per Square Foot

_____ **SF** \$ _____
price in writing

BIDDER: _____



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14. F&I Concrete Splashpad with Haunch, Plumbing and Electrical, including Command Center Manifold within the existing concession stand and Spray Features, as per plans and specifications, complete. – Lump Sum

_____ LS \$ _____
price in writing

15. F&I Arch Cantilever Shade Sail, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

16. F&I 6' Backless Bench, In-ground Mount, TMR Slats with Black Supports, complete. – Per Each

_____ EA \$ _____
price in writing

17. F&I 6' Picnic Table, Surface Mount on Concrete Pad, TMR Slats with Black Supports, complete. – Per Each

_____ EA \$ _____
price in writing

18. F&I Basketball Polycarbonate Backboards, complete. – Per Each

_____ EA \$ _____
price in writing

19. F&I Basketball Breakaway Rims, complete. – Per Each

_____ EA \$ _____
price in writing

20. F&I 8' ADA Picnic Table, Surface Mount on Concrete Pad, TMR Slats with Black Supports, complete. – Per Each

_____ EA \$ _____
price in writing

21. F&I 12" Catch Basin, Risers and Grates, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

BIDDER: _____



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22. F&I 8oz Non-Woven Geotextile Filter Fabric, complete. – Per Square Foot

_____ SF \$ _____
price in writing

23. F&I #2 (1-1/2 to 2-1/2") Washed Crushed Stone, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

24. F&I 3/4" Gravel Base, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

25. F&I Bioswale Soil Mix (65% Loamy Sand, 35% Screened High Quality Compost), complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

26. F&I Sandy Loam for the Splashpad Bioretention Area, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

27. F&I Washed Concrete Sand for the Splashpad Bioretention Area, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

28. F&I Washed #57 Gravel for the Splashpad Bioretention Area, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

29. F&I Washed #4 Gravel for the Splashpad Bioretention Area, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

30. F&I Vegetation Plugs for the Splashpad Bioretention Area as per plans, complete. – Per Flat

_____ FL \$ _____
price in writing

BIDDER: _____



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31. F&I Stormwater Bioretention Grass Seed Mix to Bioswale adjacent to basketball court, complete. – Per Pound

_____ LB \$ _____
price in writing

32. F&I 6" Rigid, Perforated, Schedule 40 PVC Pipe to connect Splashpad Bioretention Area to sewer pipe, as per plans, complete. – Per Linear Foot

_____ LS \$ _____
price in writing

33. F&I Footbridge with Handrails, as per plans, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

34. F&I 6' Bench with Backrest, In-ground Mount, TMR Slats with Black Supports, complete. – Per Each

_____ EA \$ _____
price in writing

35. F&I 55gal. Perforated Steel Trash Receptacle, Dome Lid, and Heavy-Duty Plastic Liner on Concrete Pad, complete. – Per Each

_____ EA \$ _____
price in writing

36. F&I +/-36"L x 24-36"W x 24-30"H Landscape Boulders, in Concrete and Gravel Base, complete. – Per Each

_____ EA \$ _____
price in writing

37. F&I Flat-Topped Stepping Boulders to Splashpad Bioretention Area, as per plans, complete. – Per Each

_____ EA \$ _____
price in writing

38. F&I Boulder Wall in Concrete Splashpad, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

BIDDER: _____



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39. F&I 12' ht. Chain Link Fence, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

40. F&I 6' ht. Chain Link Fence, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

41. F&I 6' ht. x 12' wide Chain Link Service Gate, complete. – Per Each

_____ EA \$ _____
price in writing

42. F&I Play Equipment – Spinners – in the playground area, complete. – Per Each

_____ EA \$ _____
price in writing

43. F&I 2.5-3" cal. *Acer saccharum* 'Green Mountain', complete. - Per Each

_____ EA \$ _____
price in writing

44. F&I 14-16' Ht. *Betula nigra* 'Dura Heat' clump, complete. - Per Each

_____ EA \$ _____
price in writing

45. F&I Loam and Hydroseed, complete. - Per Square Foot

_____ SF \$ _____
price in writing

46. F&I EWF Safety Surfacing, complete. - Per Cubic Yard

_____ CY \$ _____
price in writing

BIDDER: _____



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UNIT PRICES – ADD ALTS:

1. F&I 2.5-3" cal. *Nyssa sylvatica* 'Wildfire', Wildfire Tupelo, complete. - Per Each

_____ EA \$ _____
price in writing

2. F&I 4' ht. Welded Wire Mesh Fence as per plans, complete. - Per Linear Foot

_____ LF \$ _____
price in writing

3. F&I 12" Coir Log Berms, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

4. F&I Hardwood Stakes, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

5. F&I Concrete Walk and Base, complete. – Per Square Foot

_____ SF \$ _____
price in writing

6. F&I 6" Rigid, Perforated, Schedule 40 PVC Pipe from Splashpad Bioretention Area to Stormwater Attenuation Terrace, as per plans, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

7. F&I Vegetation Plugs to Stormwater Attenuation Terrace, as per plans, complete. – Per Flat

_____ FL \$ _____
price in writing

BIDDER: _____



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8. F&I New England Showy Wildflower Mix, complete. – Per Pound

_____ LB \$ _____
price in writing

9. F&I Rock Spreader Apron, including Boulder Wall and Riprap in Stormwater Attenuation Terrace, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

10. F&I Dugout Corrugated Roofs and Chain-Link fencing, as per plans, complete. – Per Each (Dugout)

_____ EA \$ _____
price in writing

Please note that the list above is not intended to include all items required to complete the base bid scope of work but can and shall be used to adjust the contract prior to or after award – in the best interest of the City of Providence.

BIDDER: _____

BID DOCUMENTS:

The complete set of Bid Documents consists of the Bid Form, Technical Specifications, Minority Participation Forms, and the following Drawings:

DRAWINGS:

- L-1 COVER SHEET
- L-2 EXISTING CONDITIONS/DEMOLITION PLAN
- L-3 GRADING PLAN
- L-4 SITE CONSTRUCTION PLAN
- L-5 SPLASHPAD CONSTRUCTION PLAN
- L-6 PLANTING PLAN
- L-7 DETAILS 1
- L-8 DETAILS 2
- L-9 DETAILS 3
- L-10 DETAILS 4
- L-11 DETAILS 5
- L-12 DETAILS 6
- L-13 DETAILS 7
- PE-1 VORTEX PLUMBING & ELECTRICAL PLAN & DETAILS



PROVIDENCE, RI

SITE IMPROVEMENTS

AT JAMES AHERN PARK

HONORABLE
BRETT P. SMILEY
MAYOR

WENDY NILSSON
SUPERINTENDENT OF PARKS

OSCAR VARGAS
CITY COUNCILOR

SHEET SCHEDULE

- L-1 COVER SHEET
- L-2 EXISTING CONDITIONS/DEMOLITION PLAN
- L-3 GRADING PLAN
- L-4 SITE CONSTRUCTION PLAN
- L-5 SPLASH PAD CONSTRUCTION PLAN
- L-6 PLANTING PLAN
- L-7 DETAILS 1
- L-8 DETAILS 2
- L-9 DETAILS 3
- L-10 DETAILS 4
- L-11 DETAILS 5
- L-12 DETAILS 6
- L-13 DETAILS 7
- PE-1 VORTEX PLUMBING & ELECTRICAL PLAN

DEMOLITION PLAN GENERAL NOTES

1. ALL SITE PREPARATION NECESSARY TO COMPLETE THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH PROVIDENCE PARKS DEPARTMENT STAFF TO DEVELOP A SUITABLE DEMOLITION PLAN, WHICH WILL MINIMIZE PARK DISTURBANCE AND ALLOW ALL FACILITIES TO REMAIN IN OPERATION DURING THE ENTIRETY OF CONSTRUCTION.
3. UNLESS OTHERWISE NOTED, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION, DEMOLITION, REMOVAL AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL EXISTING SITE ELEMENTS AND STRUCTURES INCLUDING BUT NOT LIMITED TO BITUMINOUS CONCRETE, CEMENT CONCRETE, GRAVEL, CURBS, WALKWAYS, SIDEWALKS, BERMS, FENCES, BOLLARDS, POSTS, PLANTING BEDS, TREES, SHRUBS, UTILITIES, DRAINAGE STRUCTURES AND ALL OTHER STRUCTURES SHOWN WITHIN THE LIMITS, AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION. ALL ELEMENTS TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A PROPER AND LEGAL MANNER.
5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE CITY, AND "DIGSAFE" (1-800-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE CONFLICTS BETWEEN THE PROPOSED UTILITIES AND FIELD-LOCATED UTILITIES AND SHALL REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY. THE OWNER ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED, INCOMPLETELY OR INACCURATELY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCURATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED AND EXISTING UTILITIES FOUND DURING CONSTRUCTION FOR THE PREPARATION OF THE AS-BUILT PLAN.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING UTILITIES IN WORKING ORDER AND FREE FROM DAMAGE DURING THE ENTIRE DURATION OF THE PROJECT. ALL COST RELATED TO THE REPAIR OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINE OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
7. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS AND OPERATION FOR SURROUNDING FACILITIES, AS DEEMED BY THE OWNER, AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
8. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES AND TREE PROTECTIVE MEASURES ARE TO BE INSTALLED.

EROSION & SEDIMENT CONTROL NOTES

1. THE SITE CONSTRUCTION FOREMAN SHALL BE DESIGNATED AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL ESC MEASURES AND SHALL IMPLEMENT ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
2. THE CONTRACTOR SHALL INSTALL ALL ESC MEASURES AS SHOWN ON THE DESIGN PLANS AND AS DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE BEFORE ANY CONSTRUCTION ACTIVITIES ARE TO BEGIN. THESE MEASURES SHALL BE CHECKED, MAINTAINED/REPLACED AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. SUCH MEASURES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGH THE CONSTRUCTION PERIOD.
3. A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE&/OR SILT SOCK) SHALL BE STOCKPILED ONSITE AT ALL TIMES.
4. THE CONTRACTOR SHALL PROTECT THE ADJACENT AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION OPERATIONS.
5. A CONSTRUCTION EXIT SHALL BE CONSTRUCTED TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. THE CONSTRUCTION EXIT SHALL BE REPLACED/CLEANED AS NEEDED TO MAINTAIN ITS EFFECTIVENESS.
6. THE LIMIT OF ALL CLEARING, GRADING AND DISTURBANCES SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH WILL LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, THE CONTRACTOR SHALL USE THEIR BEST PROFESSIONAL JUDGEMENT AND SHALL BE RESPONSIBLE FOR ENSURING THAT NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
8. SOIL ESC MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT THE ESC MEASURES ARE INTACT AND FUNCTIONING PROPERLY. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY NO LATER THAN 24 HOURS AFTER IDENTIFICATION.

9. SOIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK.
10. DISTURBED AREAS AND SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHOULD PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY AREAS HAVING A SLOPE GREATER THAN 3:1 SHALL BE REINFORCED WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL CONTAIN ALL SEDIMENT ONSITE. ALL EXITS FROM THE SITE WILL BE SWEEPED AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEEPED AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING SITE WORK.
12. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ESC MEASURES AND DISPOSED OF IN A PRE-APPROVED LOCATION BY THE CONTRACTOR.
13. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY.

GENERAL CONSTRUCTION NOTES

1. INFORMATION FOR THE EXISTING CONDITIONS PLAN WAS OBTAINED FROM GIS, AERIAL IMAGERY, AND FIELD OBSERVATION. ALL EXISTING CONDITIONS ARE TO BE CONSIDERED APPROXIMATE. THIS IS NOT A REGISTERED SURVEY.
2. ANY ERRORS OR DISCREPANCIES ON THE DRAWINGS, SHOP DRAWINGS, AND DETAILS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE THE WORK HAS COMMENCED.
3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL LOCATIONS AND DIMENSIONS. DISCREPANCIES BETWEEN LAYOUT DIMENSIONS ON PLANS AND ACTUAL MEASUREMENTS IN FIELD ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE BEFORE CONSTRUCTION BEGINS.
4. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO DEMOLITION OR INSTALLATION OF ANY PORTION OF THE SITE WORK.
5. THE CONTRACTOR SHALL STAKE OUT ALL LAYOUTS OF PROPOSED WORK FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS DURING CONSTRUCTION INCLUDING BENCHMARK LOCATIONS AND ELEVATIONS AT CRITICAL AREAS. THE LOCATION OF ALL CONTROL POINTS AND BENCHMARKS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
7. UNLESS OTHERWISE SPECIFIED ON THE PLANS AND DETAILS/SPECIFICATIONS, ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE MOST RECENT VERSION OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2015 EDITION).
8. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING NOISE, VIBRATION, DUST, SEDIMENTATION CONTAINMENT, AND TRENCH WORK.
9. THE CONTRACTOR SHALL RESTORE ALL SURFACES EQUAL TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE. AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, AND OTHER LANDSCAPING OR NATURAL FEATURES, WHEREAS THE PLANS DO NOT SHOW ALL LANDSCAPING FEATURES. EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE WORK.
10. ALL UNPAVED AREAS DISTURBED BY THE WORK SHALL HAVE A MINIMUM OF 4-INCHES OF LOAM INSTALLED AND SEEDED WITH GRASS SEED AS SHOWN ON THE PLAN AND/OR DIRECTED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ANY LOAM AND SEEDED AREAS UNTIL LAWN GROWTH IS ESTABLISHED AND APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE ANY LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO AN APPROVED DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.
12. CONCRETE TRUCKS SHALL NOT BE WASHED ONSITE. ANY CEMENT OR CONCRETE DEBRIS LEFT IN THE DISTURBED AREA SHALL BE REMOVED BY HAND AT THE CONTRACTOR'S EXPENSE.
13. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR IS TO IMMEDIATELY CONTACT AND COORDINATE WITH THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE.
14. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIAL FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.
15. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SITE FOR THE SAFETY OF THE GENERAL PUBLIC AND TO PROTECT PROPERTY AGAINST VANDALISM AND THEFT.
16. THE CONTRACTOR MUST OBTAIN ALL REQUIRED CITY, STATE AND FEDERAL PERMITS.
17. THE PROVIDENCE PARKS DEPARTMENT ASSUMES NO RESPONSIBILITY IF THE WORK IS NOT INSTALLED AS PER THE PLANS OR IF FIELD CHANGES ARE MADE WITHOUT THE KNOWLEDGE AND APPROVAL OF THE OWNER'S REPRESENTATIVE.

LAYOUT NOTES

1. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE ON AND WITHIN LIMITS OF WORK AS SHOWN ON THE PLANS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE PLAN TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
4. ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
5. ALL PLACEMENT OF SITE FURNISHINGS, BOULDERS, PLAY STRUCTURES AND OUTDOOR FITNESS EQUIPMENT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

PLANTING NOTES

1. ALL NEW PLANT MATERIALS SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
2. ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
3. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
4. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
5. ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
6. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
7. STAKE LOCATIONS OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING. INDIVIDUAL STAKES SHALL BE PLACED FOR TREES AND SHRUBS. EDGE OF PLANTING BEDS SHALL BE PAINTED. NOTIFY LANDSCAPE ARCHITECT 24 HOURS PRIOR TO DESIRED APPROVAL.
8. ALL NEW PLANTS SHALL BE SUPPLIED AND INSTALLED DURING THE PERIODS OF APRIL 1 - JUNE 15 AND/OR SEPTEMBER 1 - NOVEMBER 15 PER SPECIFICATIONS.
9. PREPARE ALL INDIVIDUAL TREE PITS AND SHRUB PLANTING BEDS TO A MINIMUM DEPTH OF EIGHTEEN INCHES (18") WITH SPECIFIED PLANTING MIX: 50% SCREENED TOPSOIL, 40% EXISTING SOIL AND 10% COMPOST. BLEND COMPOST INTO TOP 4" OF SOIL. PLANTING MIX SHALL BE FREE OF LUMPS, STONES, PLANTS, ROOTS, AND OTHER FOREIGN MATTER.
10. ALL SHRUB BEDS AND INDIVIDUAL TREE PITS SHALL RECEIVE THREE (3) INCHES OF BARK MULCH PER SPECIFICATIONS. PERENNIAL AND GROUNDCOVER BEDS SHALL RECEIVE TWO INCHES (2"). PROVIDE LANDSCAPE ARCHITECT WITH SAMPLE FOR APPROVAL.
11. ALL BURLAP, TWINE AND WIRE SHALL BE COMPLETELY REMOVED OR CUT AWAY AT TIME OF INSTALLATION.
12. PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
13. PLANT WARRANTY SHALL BE FOR ONE FULL GROWING SEASON FROM THE TIME OF SUBSTANTIAL COMPLETION.
14. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL COMPLETION OF MAINTENANCE PERIODS OR GUARANTEE PERIODS.
15. IF NO IRRIGATION SYSTEM IS PLANNED, AN APPROPRIATE WATERING SCHEDULE SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. THE APPROVED SCHEDULE SHOULD BE FOLLOWED UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
16. ALL VEGETATION AND DEBRIS SHALL BE REMOVED FROM PROPOSED PLANTING AREAS PRIOR TO PLANTING AND BACKFILLING. CONTRACTOR SHALL REMOVE ALL WEEDS AND DEBRIS FROM SITE AS WORK PROGRESSES AND UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
17. ALL AREAS TO BE SEEDED OR SODDED SHALL RECEIVE SIX INCHES (6") OF LOAM, MEASURED AFTER INSTALLATION, PRIOR TO SEEDING.
18. ALL EXISTING LAWN AREAS DESIGNED TO REMAIN SHALL BE AERATED, FERTILIZED AND OVERSEED, AS DIRECTED BY THE LANDSCAPE ARCHITECT.
19. IN ADDITION TO LOCATIONS DEFINED FOR SEED ON THE PLANTING PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING ANY DISTURBED AREAS.
20. A DETAILED PLANT MAINTENANCE MANUAL SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. INFORMATION THEREIN SHALL INCLUDE REQUIRED PRUNING SCHEDULE, FERTILIZING AND PROPOSED INTEGRATED PEST MANAGEMENT (IPM) MANAGEMENT. THE APPROVED MAINTENANCE SHOULD BE FOLLOWED UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
21. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CLOSE COORDINATION WITH OWNER, GENERAL CONTRACTOR, RELATED SUBCONTRACTORS, LANDSCAPE ARCHITECT, AND ALL SITE WORK RELATED ITEMS.



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ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



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PROJECT:

Site Improvements at James Ahern Park

**1 Wallace St
Providence, RI**

REVISIONS:

Date	Issued For:
1 10/31/24	Addendum 2
2 11/8/24	Addendum 3
-	-

NORTH ARROW

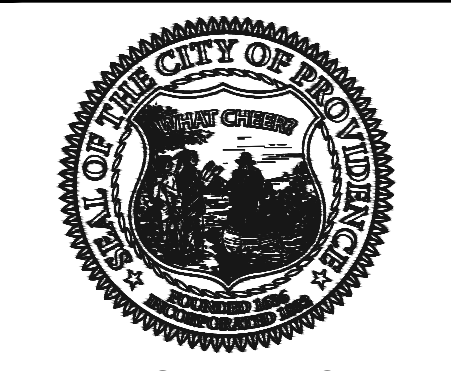
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SHEET TITLE

Cover Sheet



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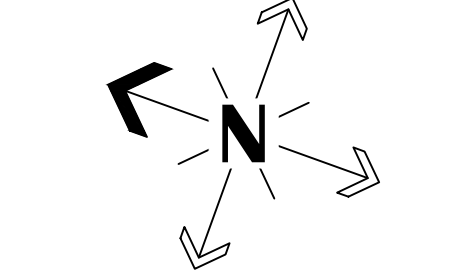
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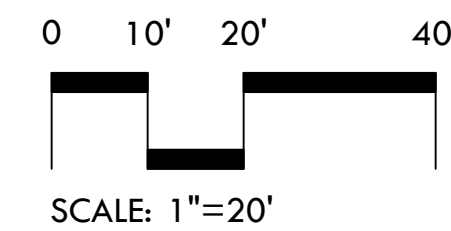
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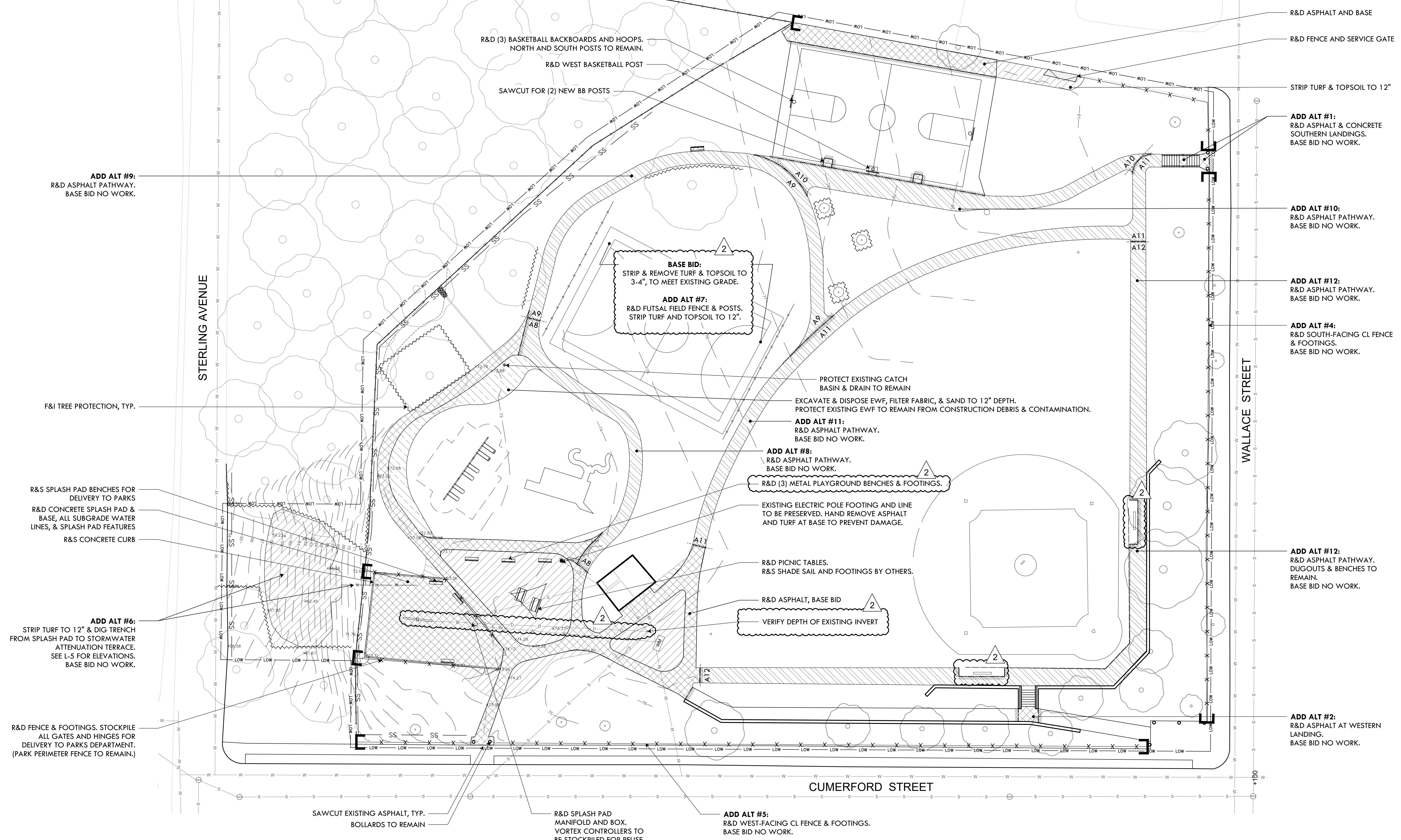


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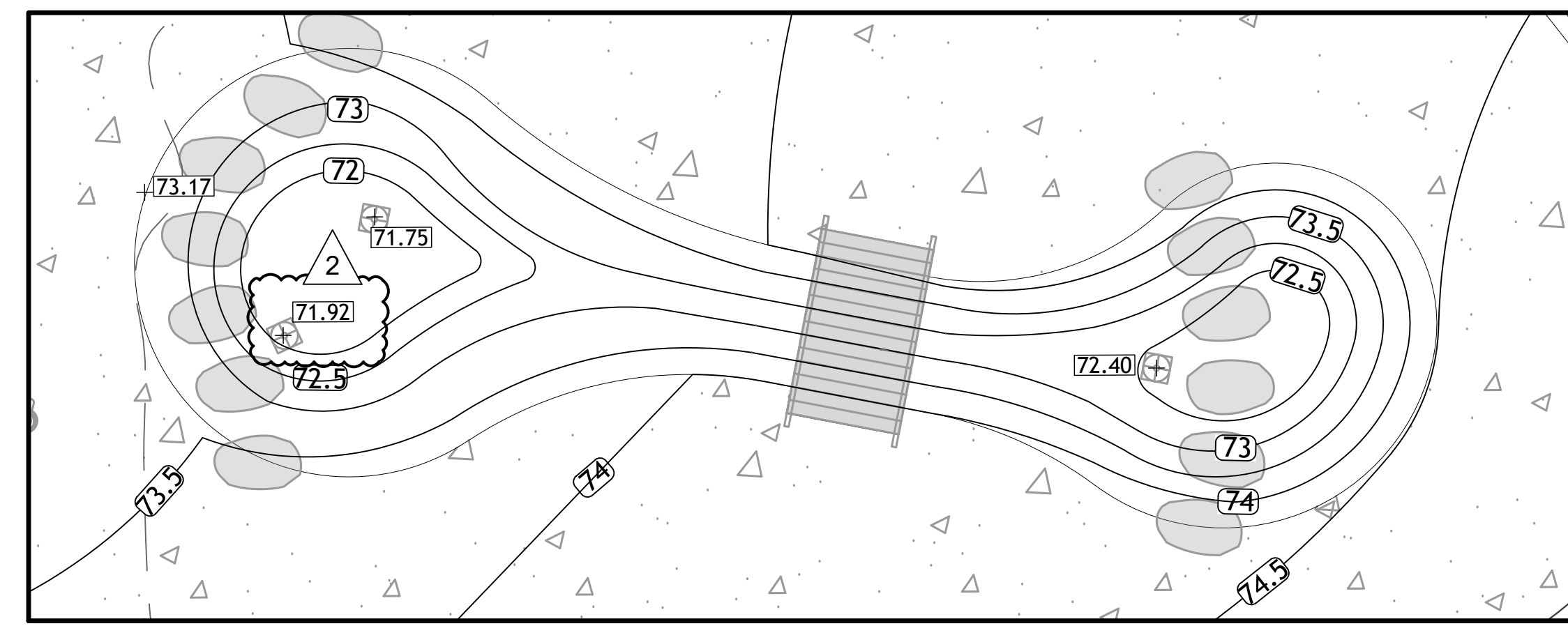
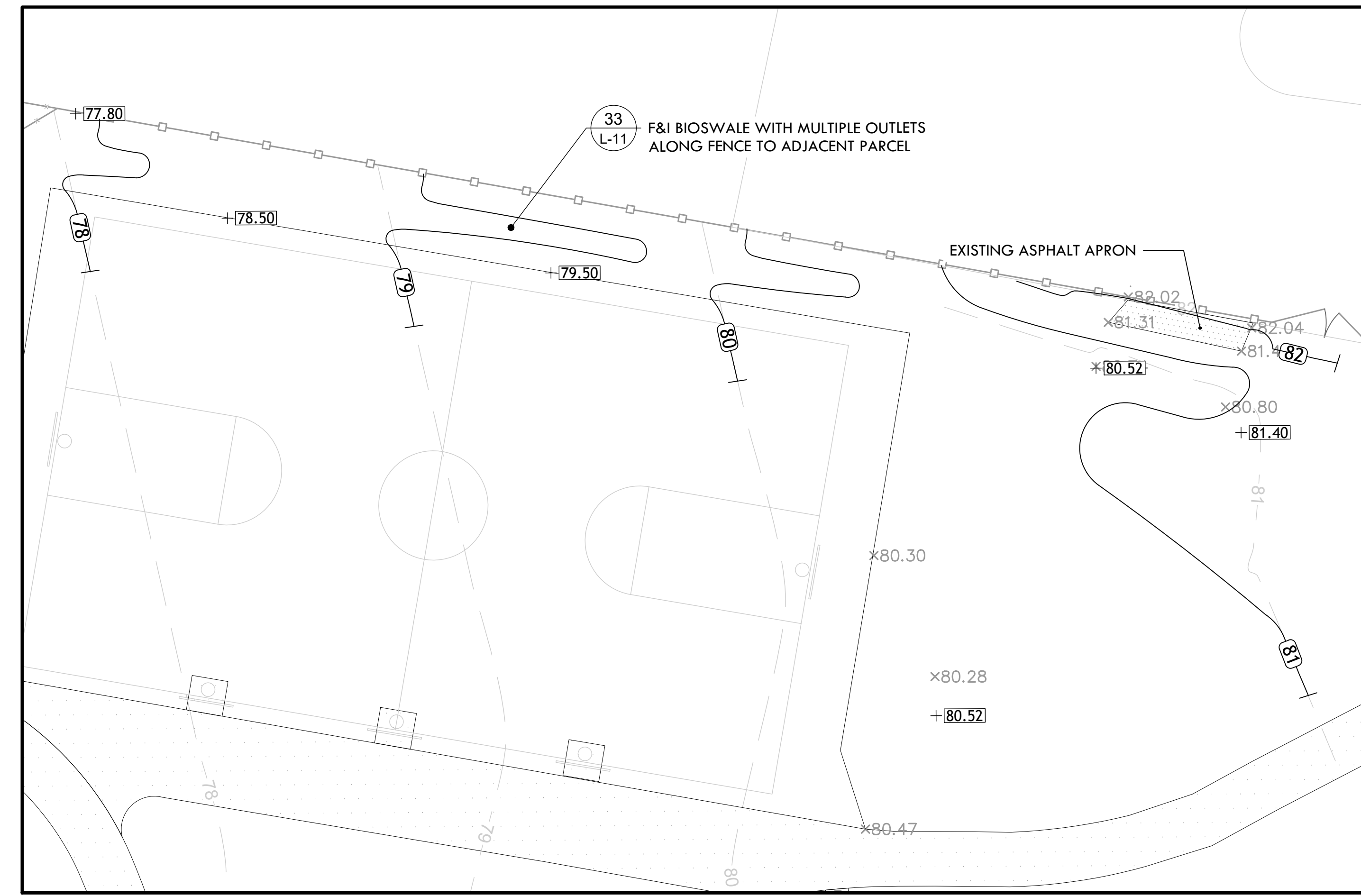
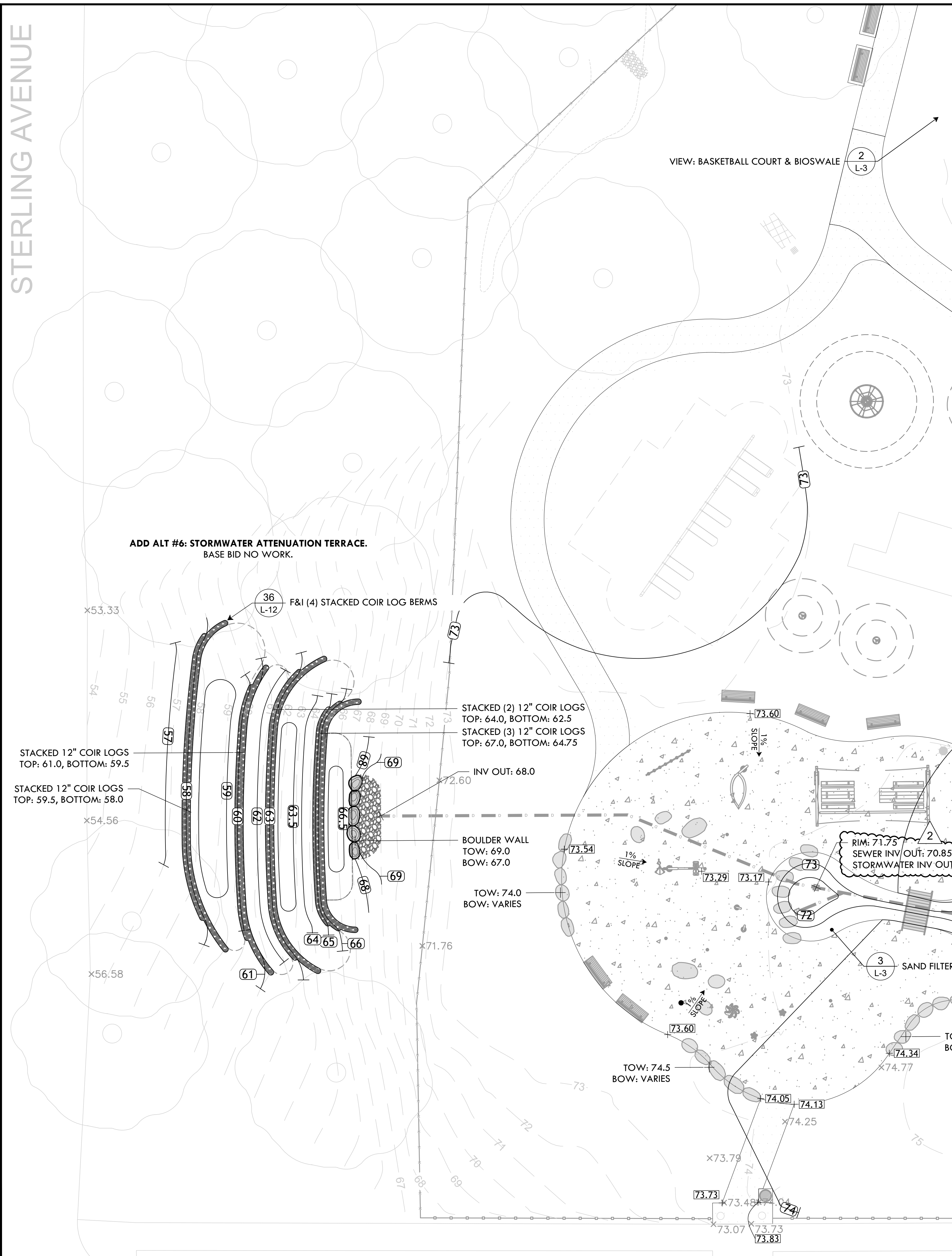
SHEET TITLE

Ex Conditions / Demo Plan



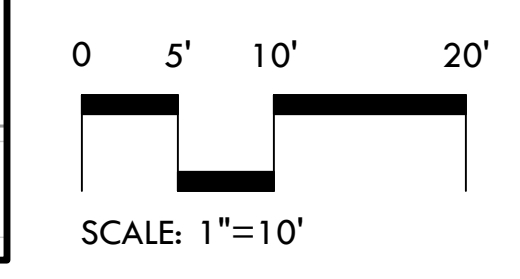
DEMOLITION PLAN LEGEND

— LOW — LOW —	LIMIT OF WORK	R&D	REMOVE & DISPOSE		R&D EX. PAVEMENT AND GRAVEL BASE	— 76 —	EXISTING CONTOUR
— SS —	SILT SOCK (1 L-7)	R&S	REMOVE & STOCKPILE		R&D EWF MULCH TO 12" DEPTH	— E — E —	EXISTING ELECTRIC
	TREE PROTECTION FENCE (2 L-7)		EXISTING CATCH BASIN		STRIP TURF & TOPSOIL TO 12" DEPTH	— S — S —	EXISTING SEWER
— TR — TR —	TRENCH, PER NOTE ON PLAN	— X — X —	EXISTING FENCE TO REMAIN		R&D ASPHALT (ADD ALT)	— W — W —	EXISTING WATER
	SAWCUT (3 L-7)		FENCE & POSTS TO BE REMOVED		ASPHALT ADD ALT LIMITS		
	EXISTING ELECTRIC POLE		LIMIT OF FENCE & POST REMOVAL				



GRADING LEGEND

- 75.74 EXISTING GRADE
- +97.83 PROPOSED GRADE
- 98 EXISTING CONTOUR
- 99 PROPOSED CONTOUR



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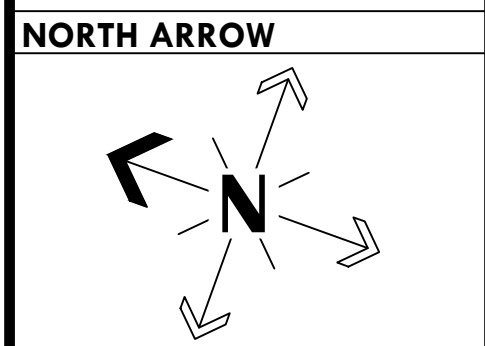
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**1 Wallace St
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SHEET TITLE
Grading Plan

L-3

3 OF 14



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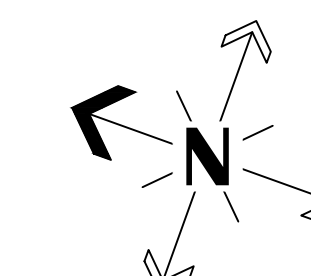
Site Improvements at James Ahern Park

1 Wallace St
Providence, RI

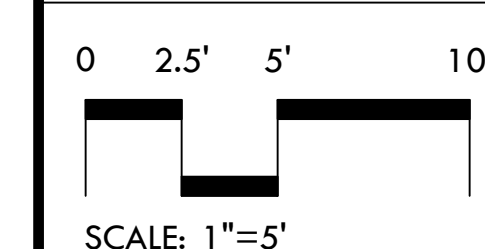
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NORTH ARROW



SCALE



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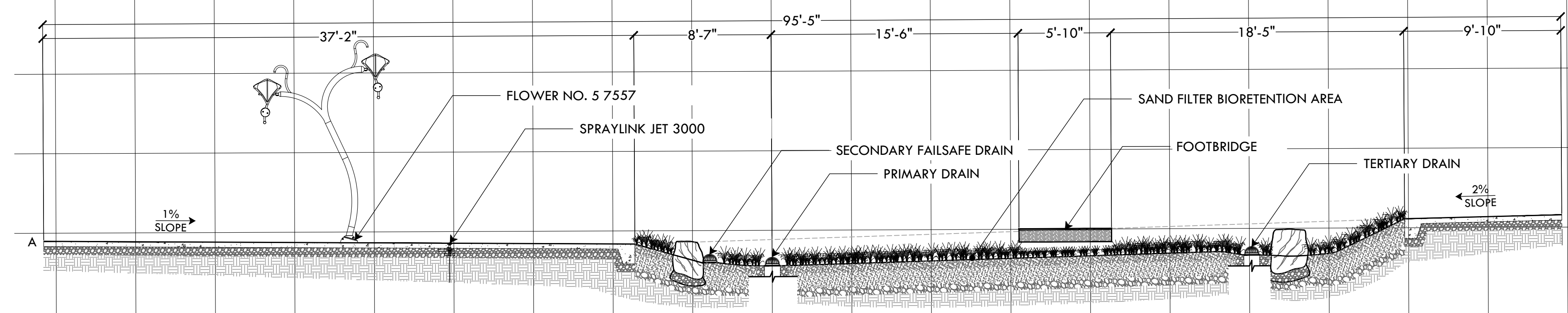
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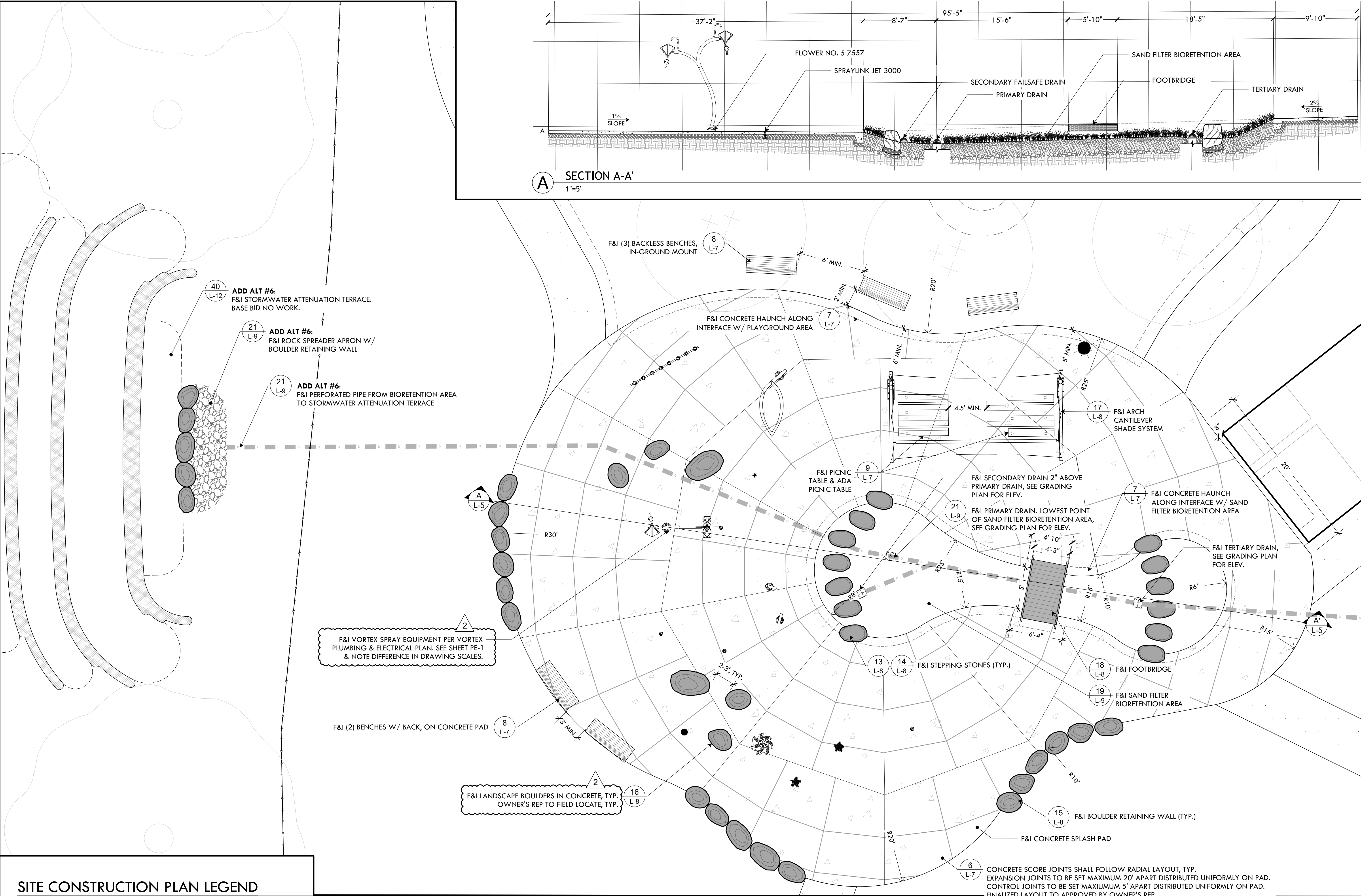
Splash Pad Construction Plan

L-5

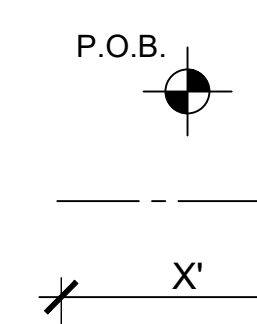
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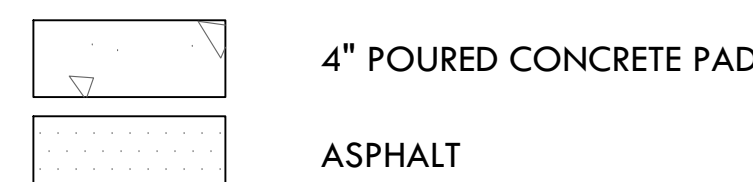
A SECTION A-A'
1"=5'



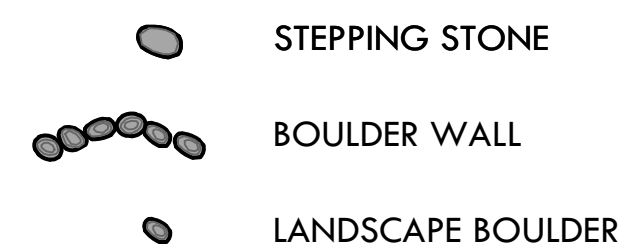
SITE CONSTRUCTION PLAN LEGEND



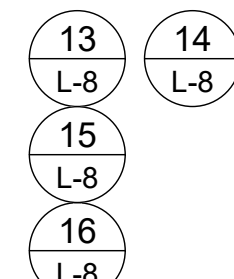
POINT OF BEGINNING
CENTERLINE
DIMENSION



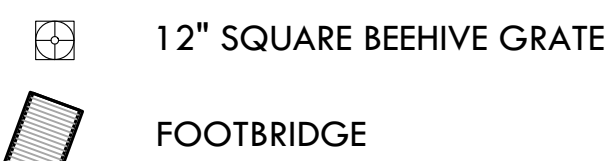
4" POURED CONCRETE PAD
ASPHALT



STEPPING STONE
BOULDER WALL
LANDSCAPE BOULDER



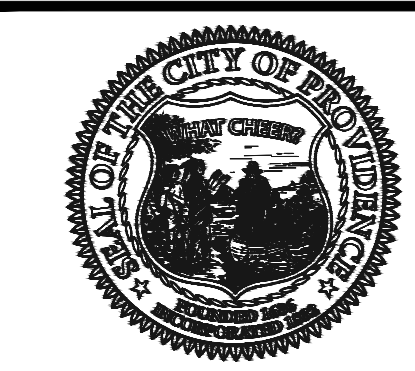
13 L-8
14 L-8
15 L-8
16 L-8



12" SQUARE BEEHIVE GRATE
FOOTBRIDGE

CONCRETE SCORE JOINTS SHALL FOLLOW RADIAL LAYOUT, TYP.
EXPANSION JOINTS TO BE SET MAXIMUM 20' APART DISTRIBUTED UNIFORMLY ON PAD.
CONTROL JOINTS TO BE SET MAXIMUM 5' APART DISTRIBUTED UNIFORMLY ON PAD.
FINALIZED LAYOUT TO APPROVED BY OWNER'S REP.

FILE: JAPK24-PLANS_Addendum 3.dwg



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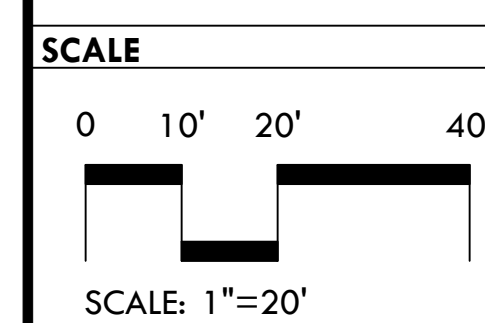
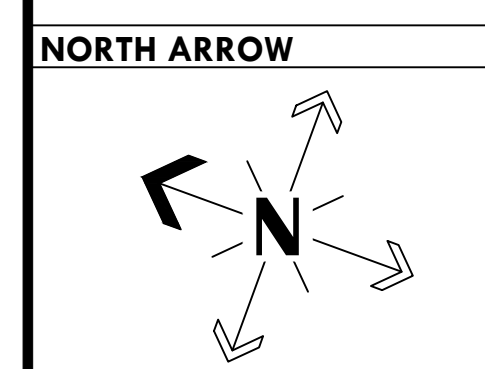
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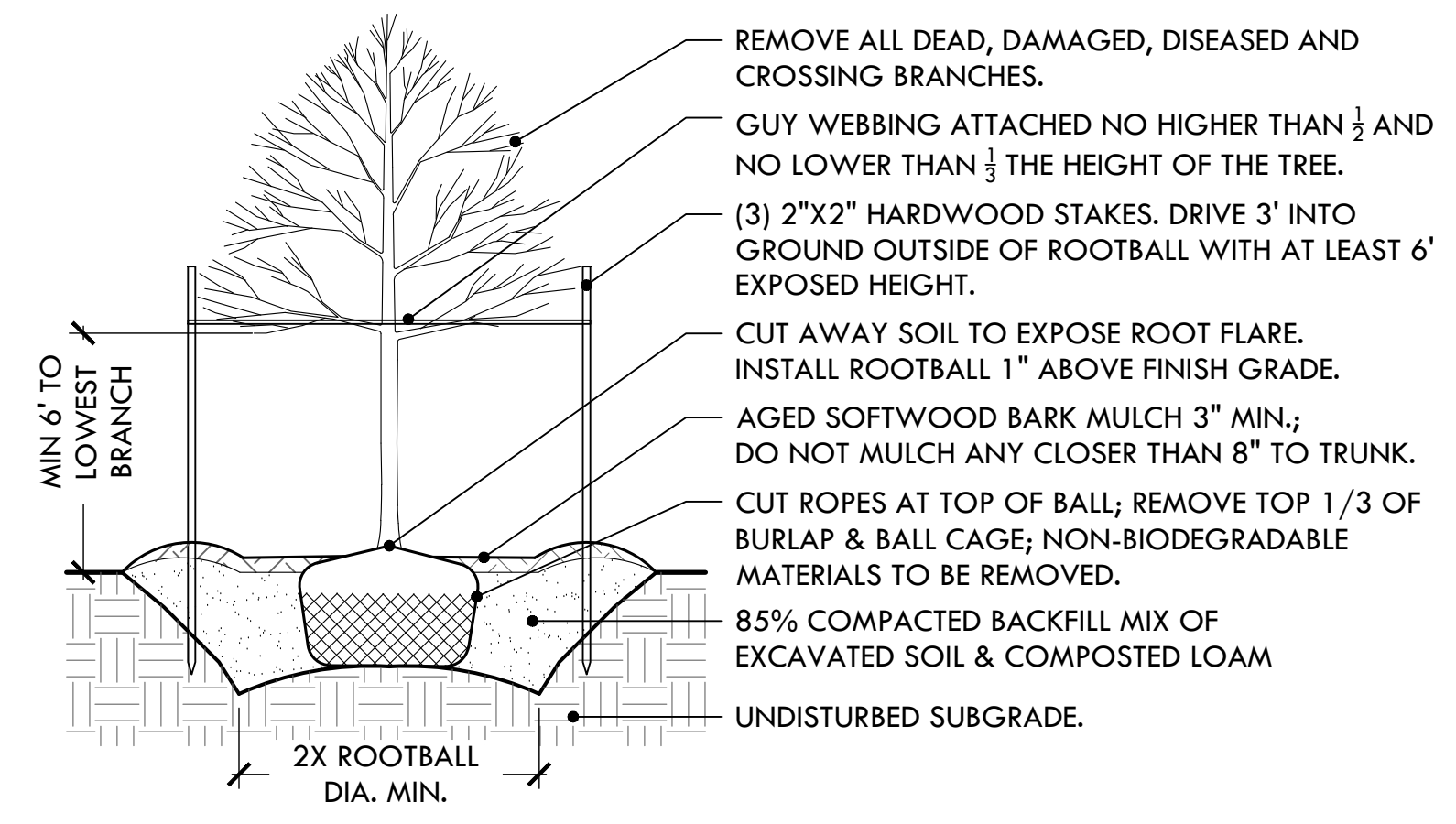


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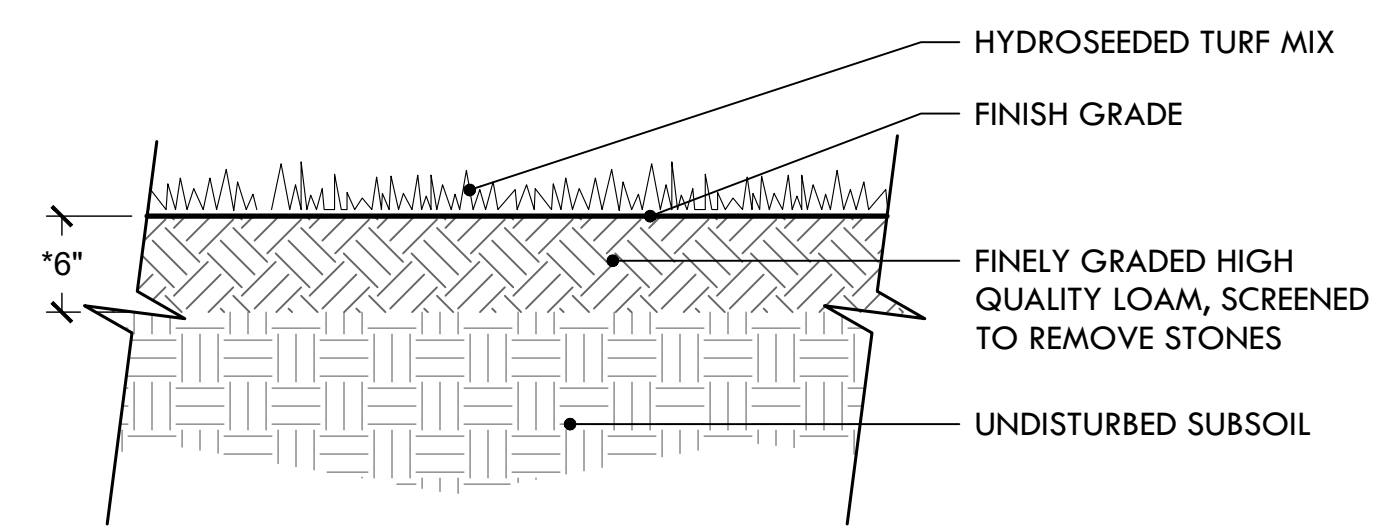
SHEET TITLE
Planting Plan

L-6

6 OF 14

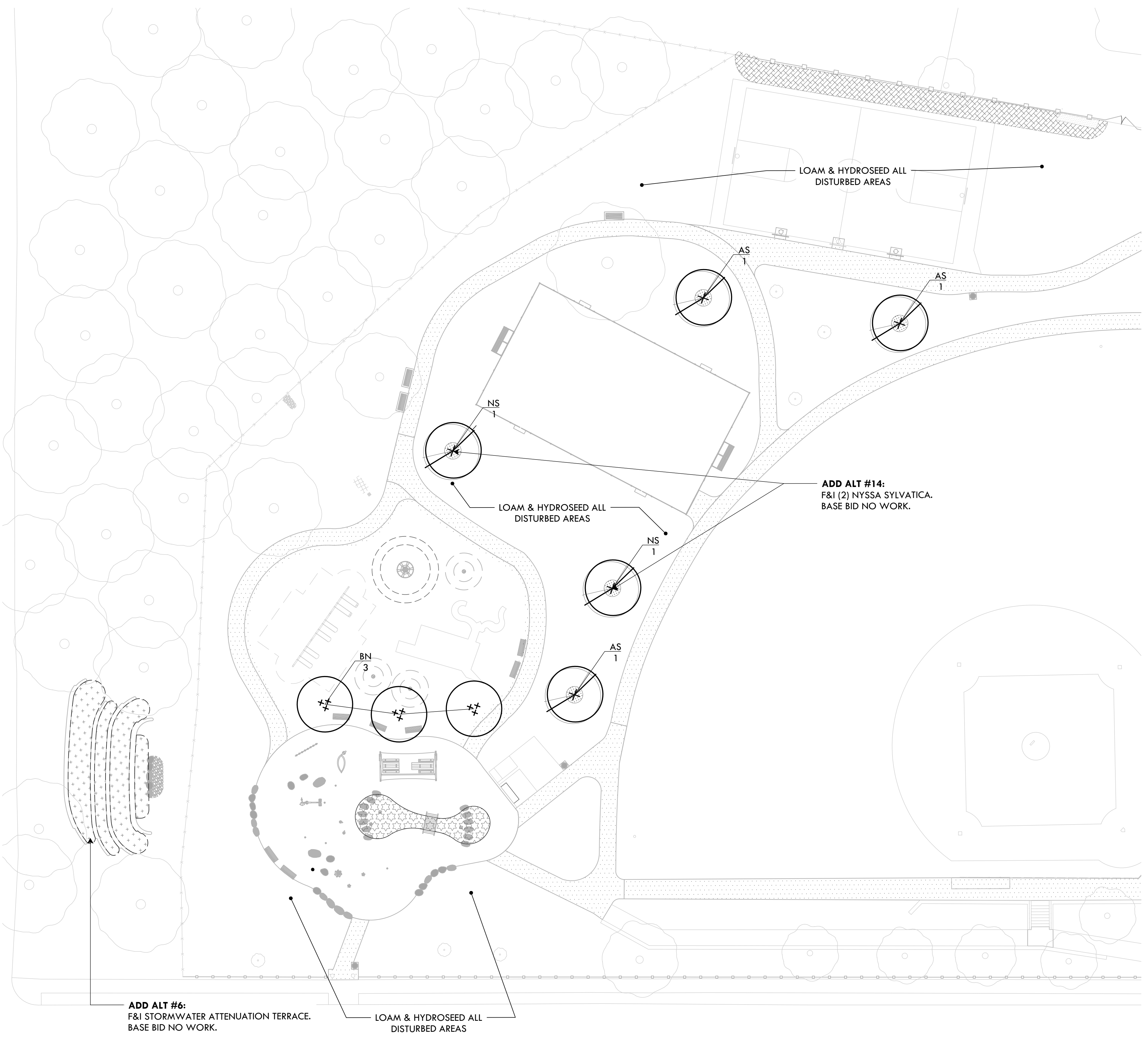


1 DECIDUOUS TREE PLANTING
NTS



- NOTES:**
- USE A PROCESSED WOOD FIBER MULCH OR WOOD/PAPER BLEND
 - ADD DOLOMITIC LIME AND SPECIFIED STARTER FERTILIZER TO LOAM PRIOR TO HYDROSEEDING
 - *DEPTH OF LOAM MAY BE LESS THAN 6" IN AREAS OF TRANSITION (FEATHERING) TO EXISTING LAWN AND FOR REPAIR TO DISTURBED AREAS.
 - LIGHTLY DISTURBED AREAS TO BE AERATED, TOP-DRESSED W/ LOAM & SLICE-SEEDED.

2 LOAM & HYDROSEED
NTS



PLANTING LEGEND

SEEDING

- BIOSWALE SEED MIX (ERNST BIO-RETENTION MIX)
- SAND FILTER BIORETENTION PLANTING
- STORMWATER ATTENUATION TERRACE PLANTING
- LAWN/DISTURBED AREAS (ALLEN'S ENDOPHYTE ENHANCED MIX - MODIFIED)
- 6' DIAMETER MULCH RING AROUND TREE

BASE BID TREE SCHEDULE

KEY	QTY	BOTANICAL NAME Common Name	SIZE	NOTES
AS	3	<i>Acer saccharum</i> 'Green Mountain' Sugar Maple	2.5-3" Cal	
BN	3	<i>Betula nigra</i> 'Dura Heat' River Birch	14-16' Clump	

ADD ALT TREE SCHEDULE

NS	2	<i>Nyssa sylvatica</i> 'Wildfire' Tupelo Tree	2.5-3" Cal	
----	---	--	------------	--

SAND FILTER BIORETENTION - PLANT MIX:

- 4 flats/50 *Echinacea purpurea* (Purple Coneflower)
- 4 flats/50 *Solidago speciosa* (Showy Goldenrod)
- 4 flats/50 *Rudbeckia fulgida* (Black-Eyed Susan)
- 4 flats/50 *Lobelia cardinalis* (Cardinal Flower)
- 4 flats/50 *Lobelia siphilitica* (Giant Blue Lobelia)
- 4 flats/50 *Symphytichum novae-angliae* (New England Aster)
- 4 flats/50 *Symphytichum novae-belgii* (New York Aster)
- 4 flats/50 *Eutrochium dubium* 'Little Joe' (Little Joe Pye weed)

ADD ALT #6 STORMWATER ATTENUATION TERRACE - PLANT MIX:

- 3 flats/50 *Panicum virgatum* (Switchgrass)
- 3 flats/50 *Asclepias tuberosa* (Butterfly Milkweed)
- 3 flats/50 *Careopsis lanceolata* (Lanceleaf Coreopsis)
- 3 flats/50 *Heliopsis helianthoides* (Smooth Oxeye)
- 3 flats/50 *Solidago speciosa* (Showy Goldenrod)
- 3 flats/50 *Symphytichum novae-angliae* (New England Aster)
- 3 flats/50 *Symphytichum novae-belgii* (New York Aster)
- 3 flats/50 *Sorghastrum nutans* (Indian Grass)
- 3 flats/50 *Eragrostis spectabilis* (Purple Love Grass)
- 3 flats/50 *Rudbeckia laciniata* (Cutleaf Coneflower)
- 1 LB New England Showy Wildflower Mix

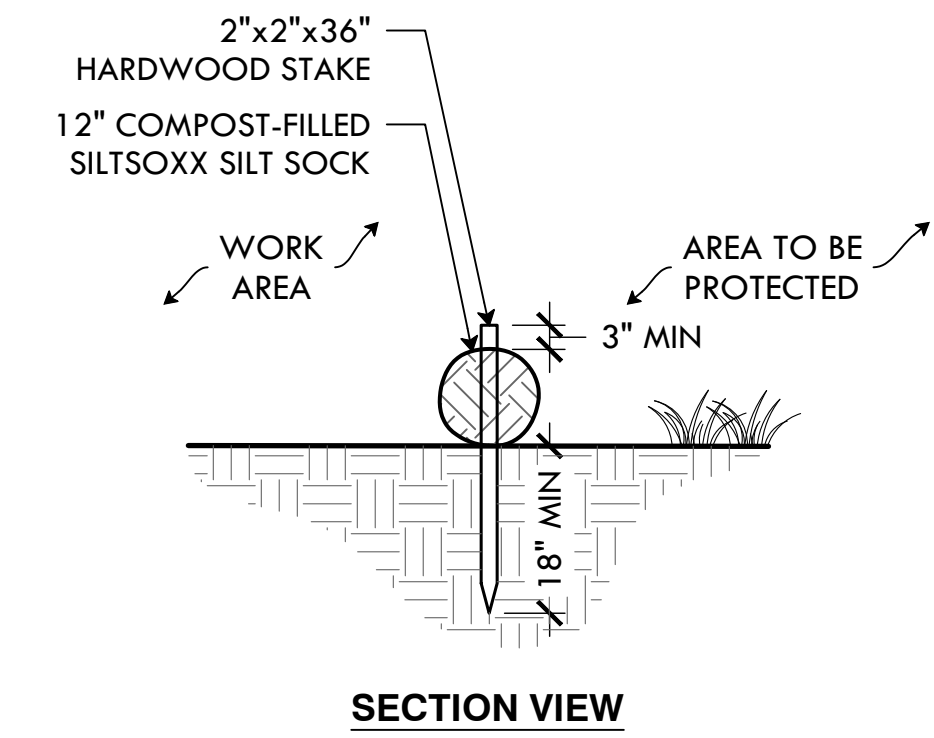
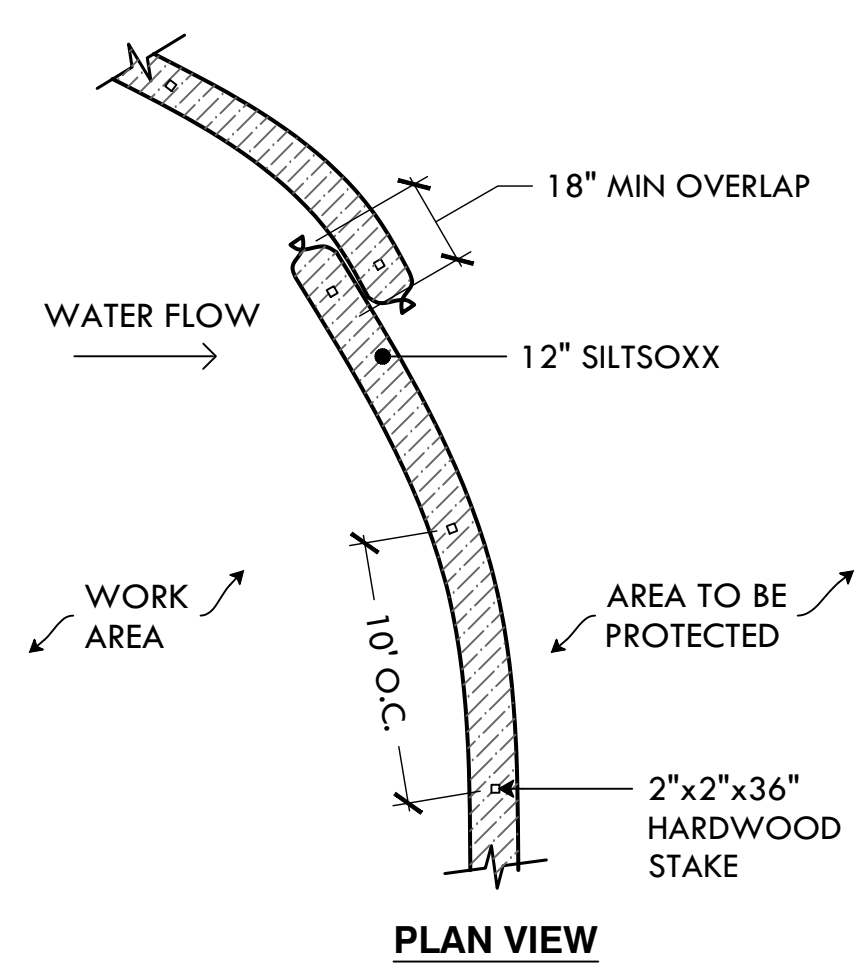
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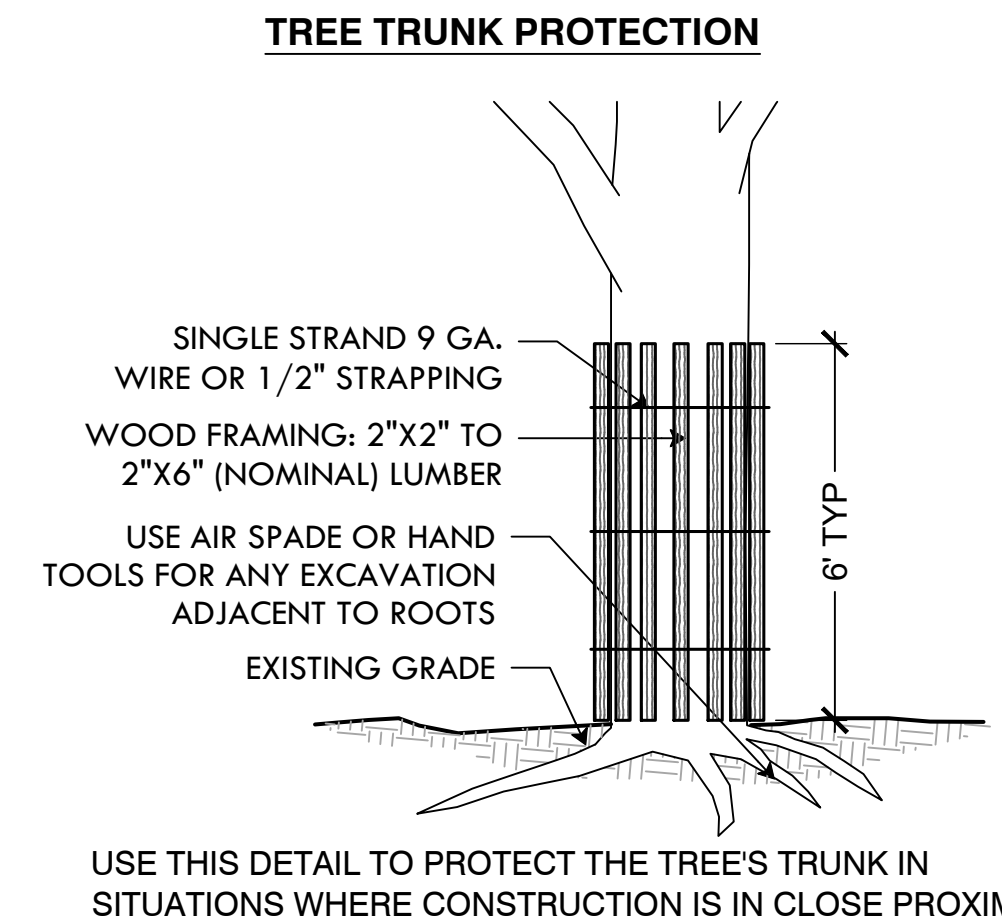


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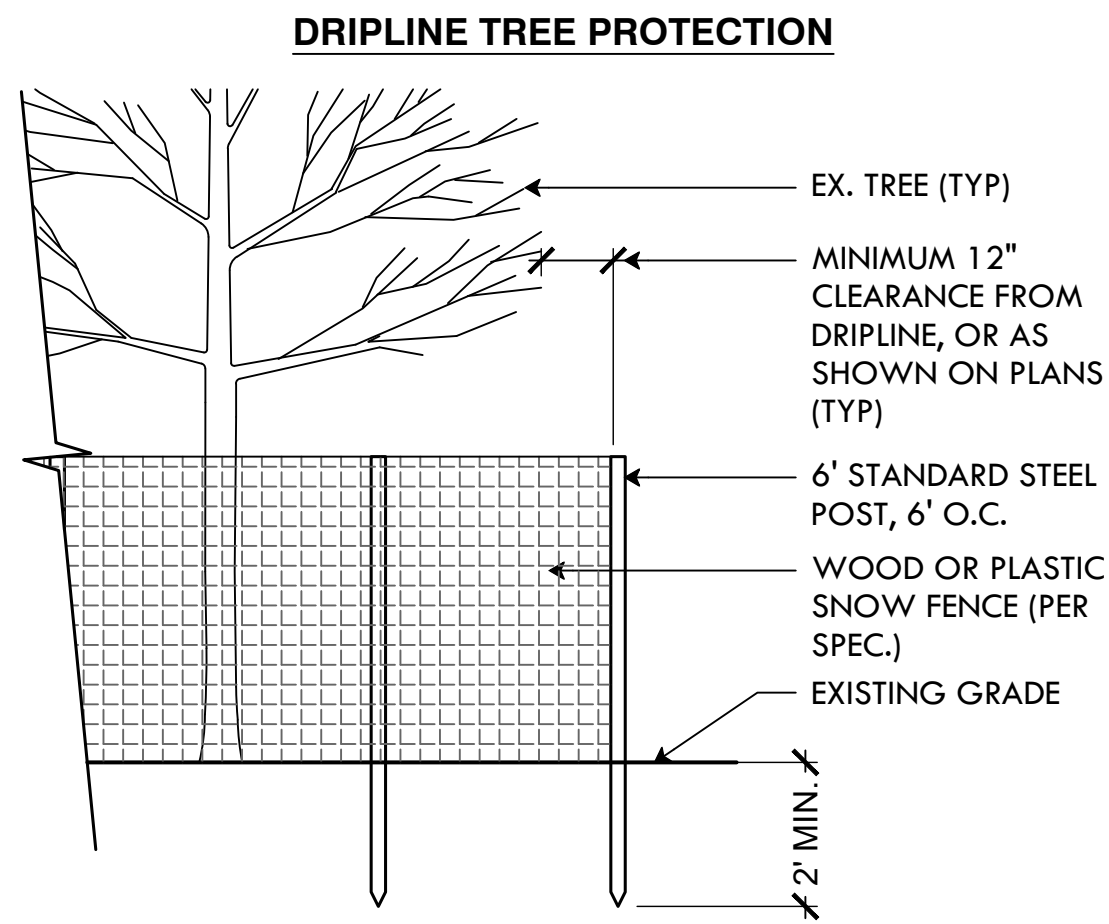
- NOTES:**
1. SILT SOCK SHALL BE SILTSOXX BY FILTREXX OR LANDSCAPE ARCHITECT APPROVED EQUAL.
 2. FILL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS
 3. FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL SHALL BE TO BE DISPERSED ON SITE, IN LOCATION SELECTED BY THE LANDSCAPE ARCHITECT.

1 SILT SOCK/COMPOST FILTER SOCK EROSION CONTROL
NTS

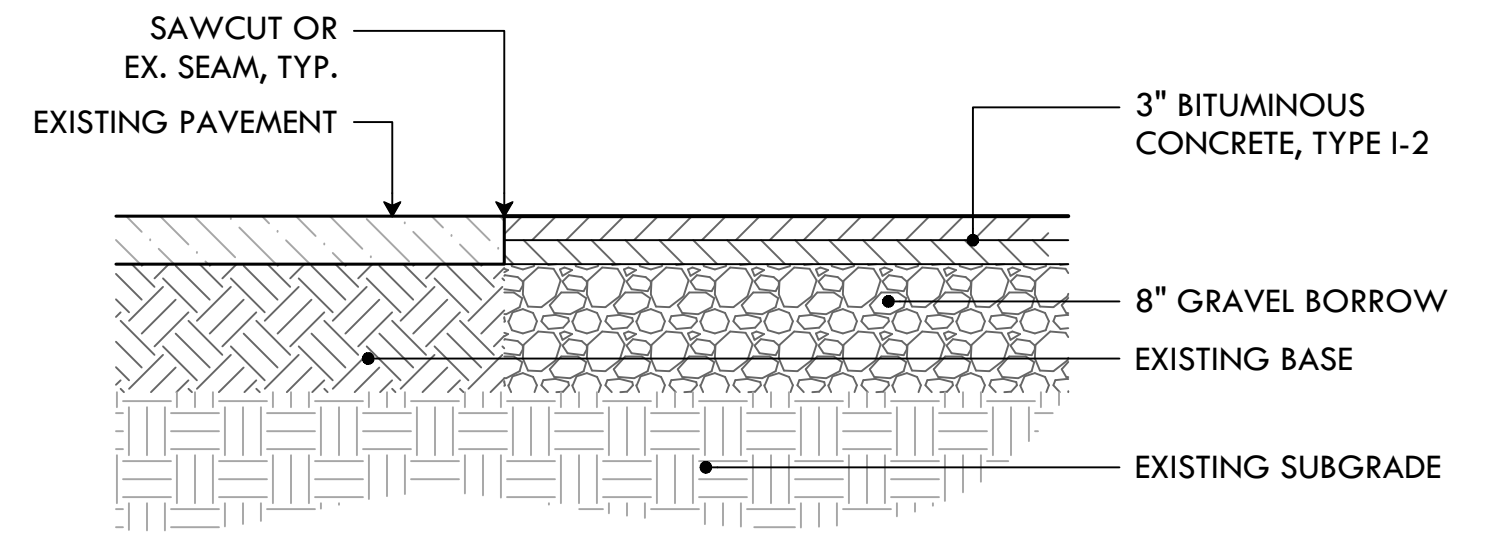


USE THIS DETAIL TO PROTECT THE TREE'S TRUNK IN SITUATIONS WHERE CONSTRUCTION IS IN CLOSE PROXIMITY

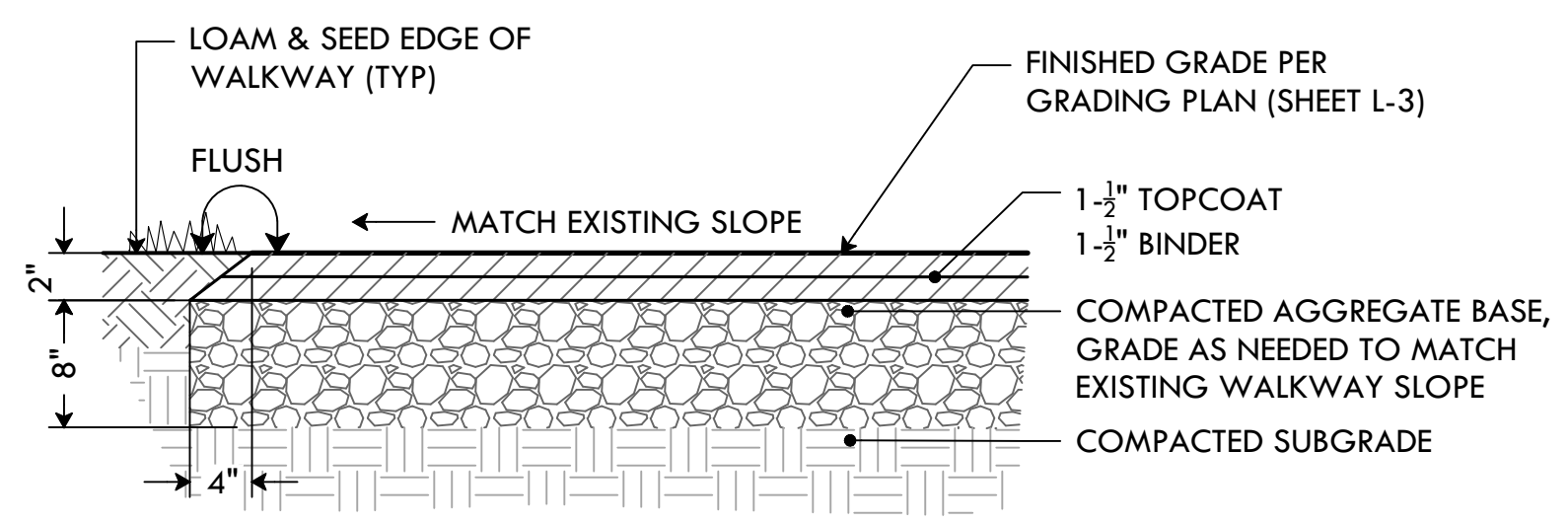
2 TREE PROTECTION DEVICES
NTS



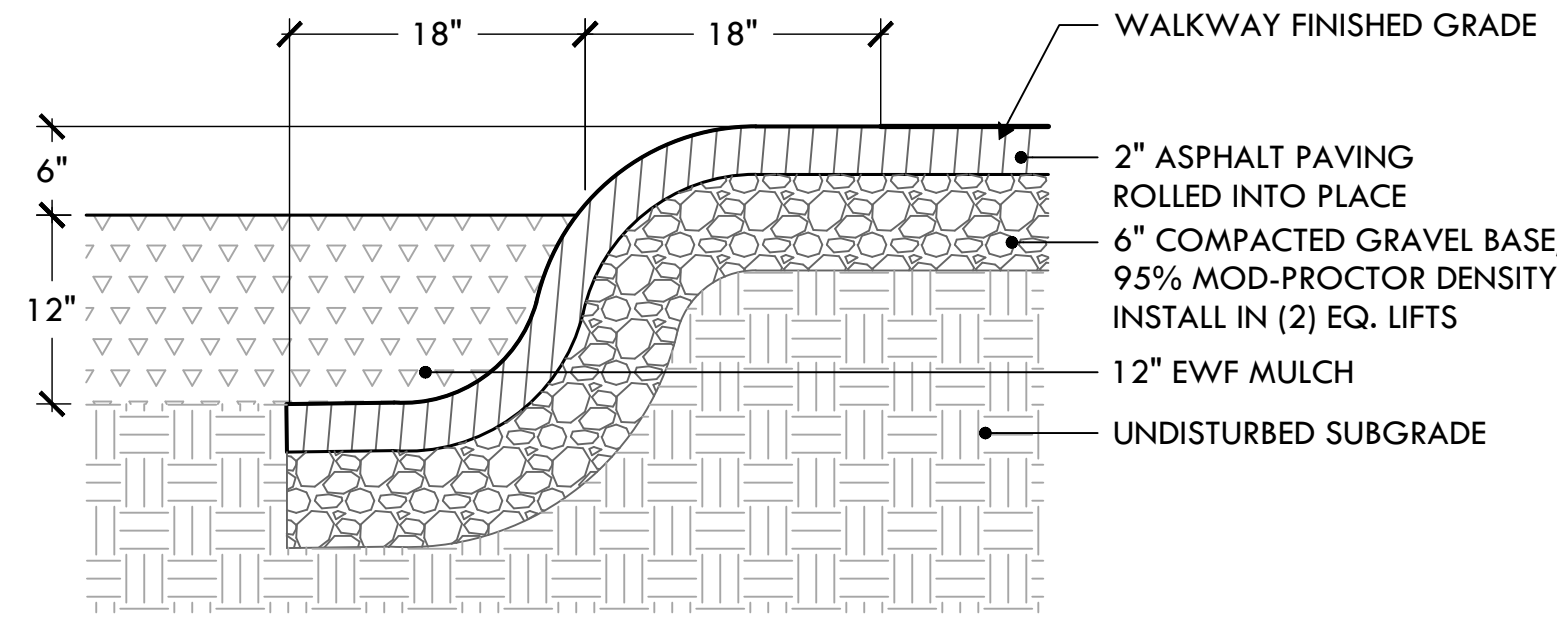
3 ASPHALT SAW CUT
NTS



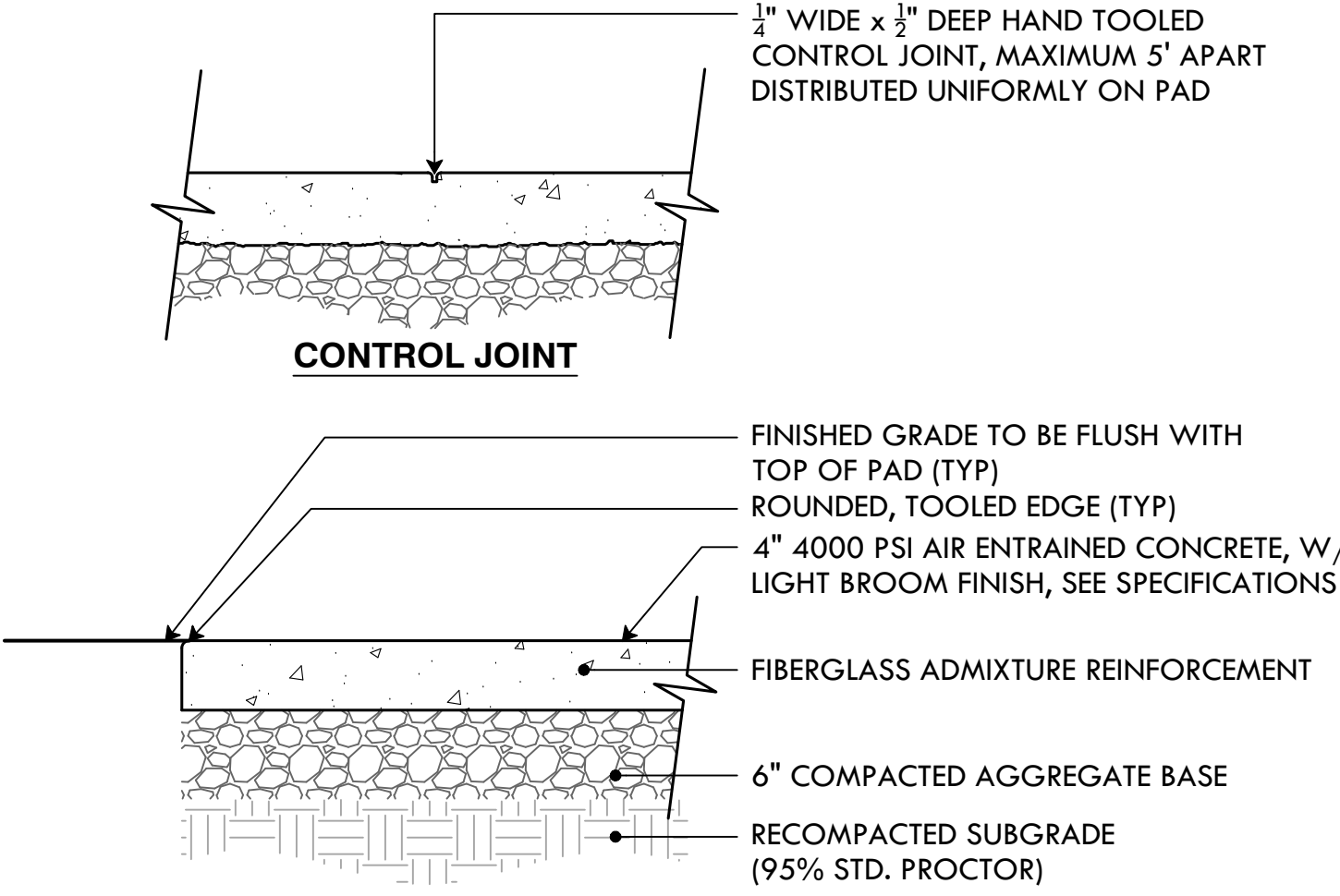
- NOTES:**
1. DISTURBED AREAS SHALL NOT EXTEND BEYOND THE SAWCUT.
 2. CLEAN SAWED JOINTS WITH COMPRESSED AIR
 3. APPLY JOINT SEAL MATERIAL FILLING FROM THE BOTTOM UP
 4. THE HOT-SEAL MATERIAL SHALL COMPLETELY FILL THE SAWCUT SUCH THAT AFTER COOLING THE LEVEL OF THE SEALER WILL NOT BE GREATER 1/8" BELOW THE PAVEMENT SURFACE
 5. CARE SHALL BE TAKEN DURING SEALING TO INSURE THAT THE FINAL APPEARANCE WILL PRESENT A NEAT LINE



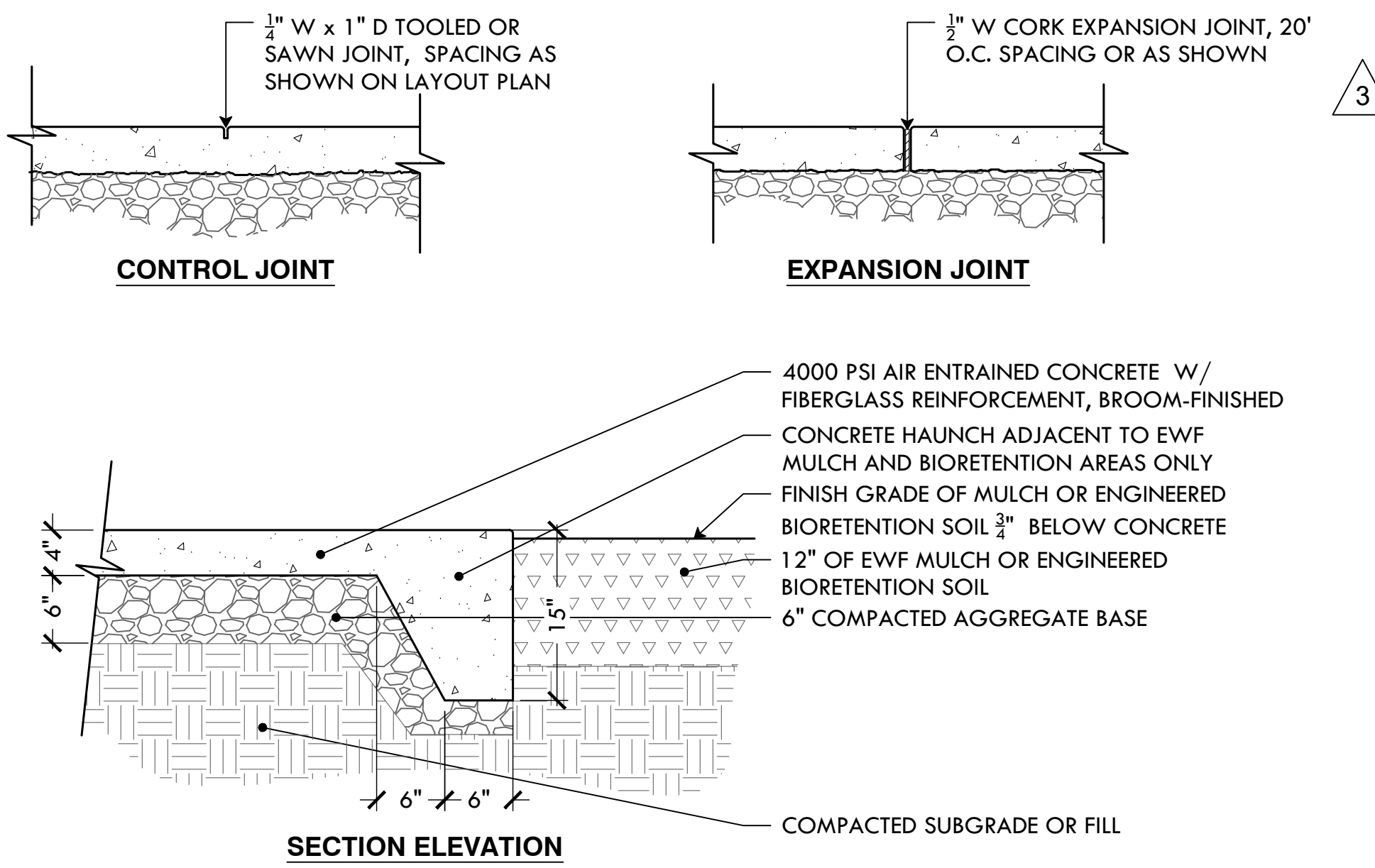
4 2" ASPHALT PAVING
NTS



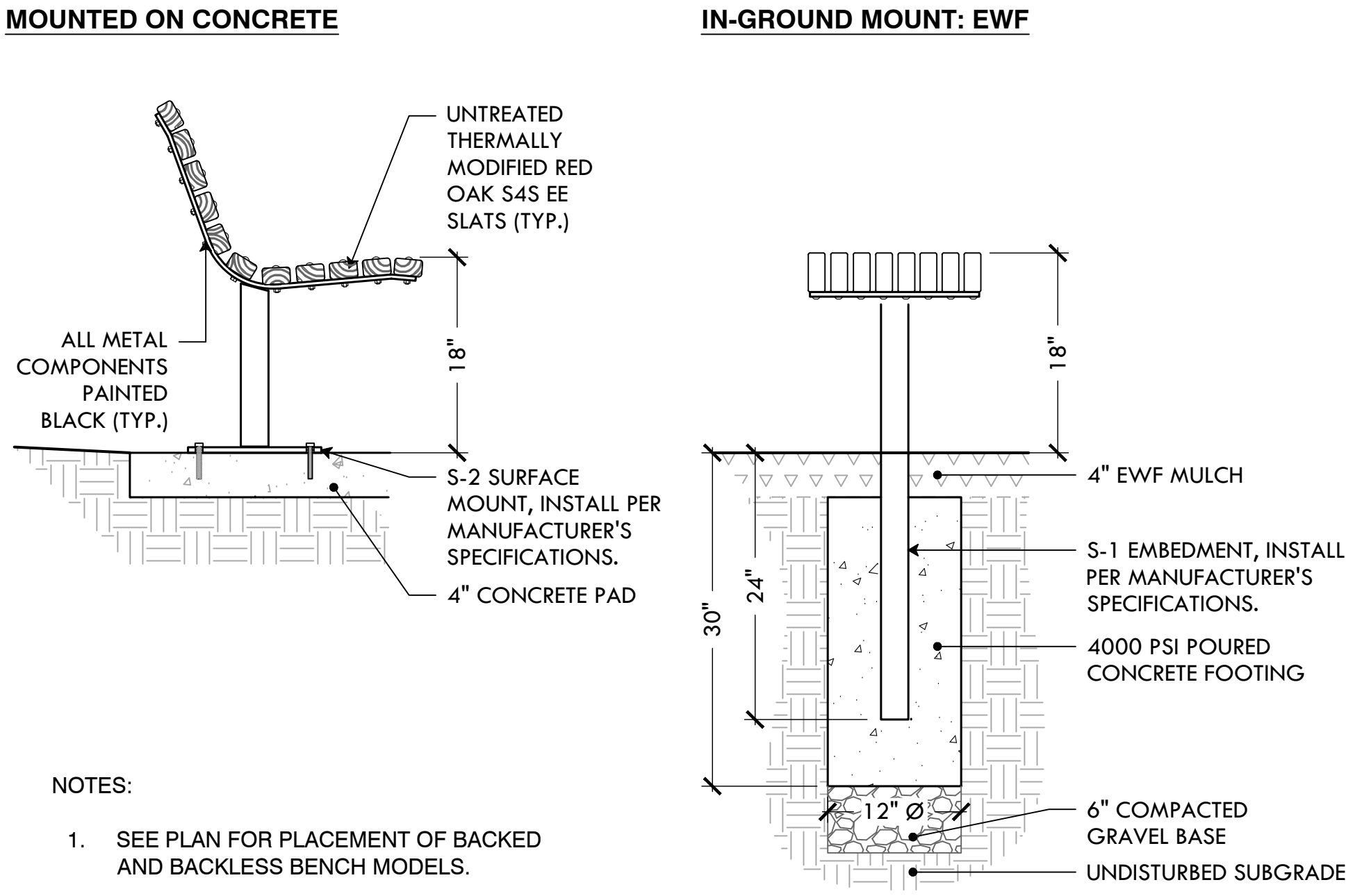
5 ROLL DOWN ASPHALT PLAY CURB
NTS



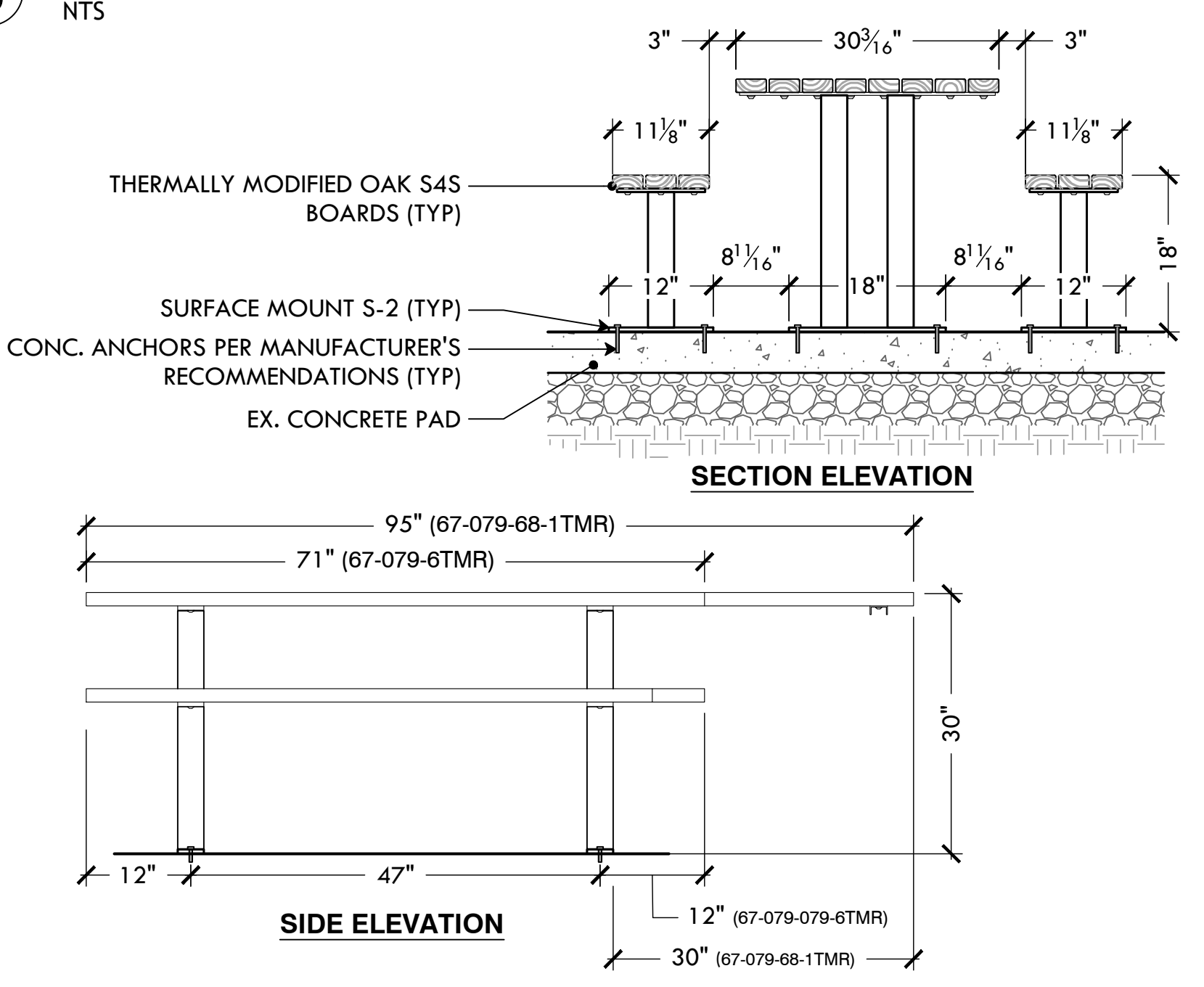
6 4" CONCRETE PAD
NTS



7 CONCRETE SPLASH PAD WITH HAUNCH
NTS



8 6' DUMOR THERMALLY MODIFIED OAK BENCH (BACKED & BACKLESS)
NTS



9 DUMOR THERMALLY MODIFIED OAK PICNIC TABLE (ADA & NON-ADA)
NTS

STAMP

PROJECT:
Site Improvements at James Ahern Park

1 Wallace St
Providence, RI

REVISIONS:

Date	Issued For:
1 10/31/24	Addendum 2
2 11/8/24	Addendum 3

NORTH ARROW

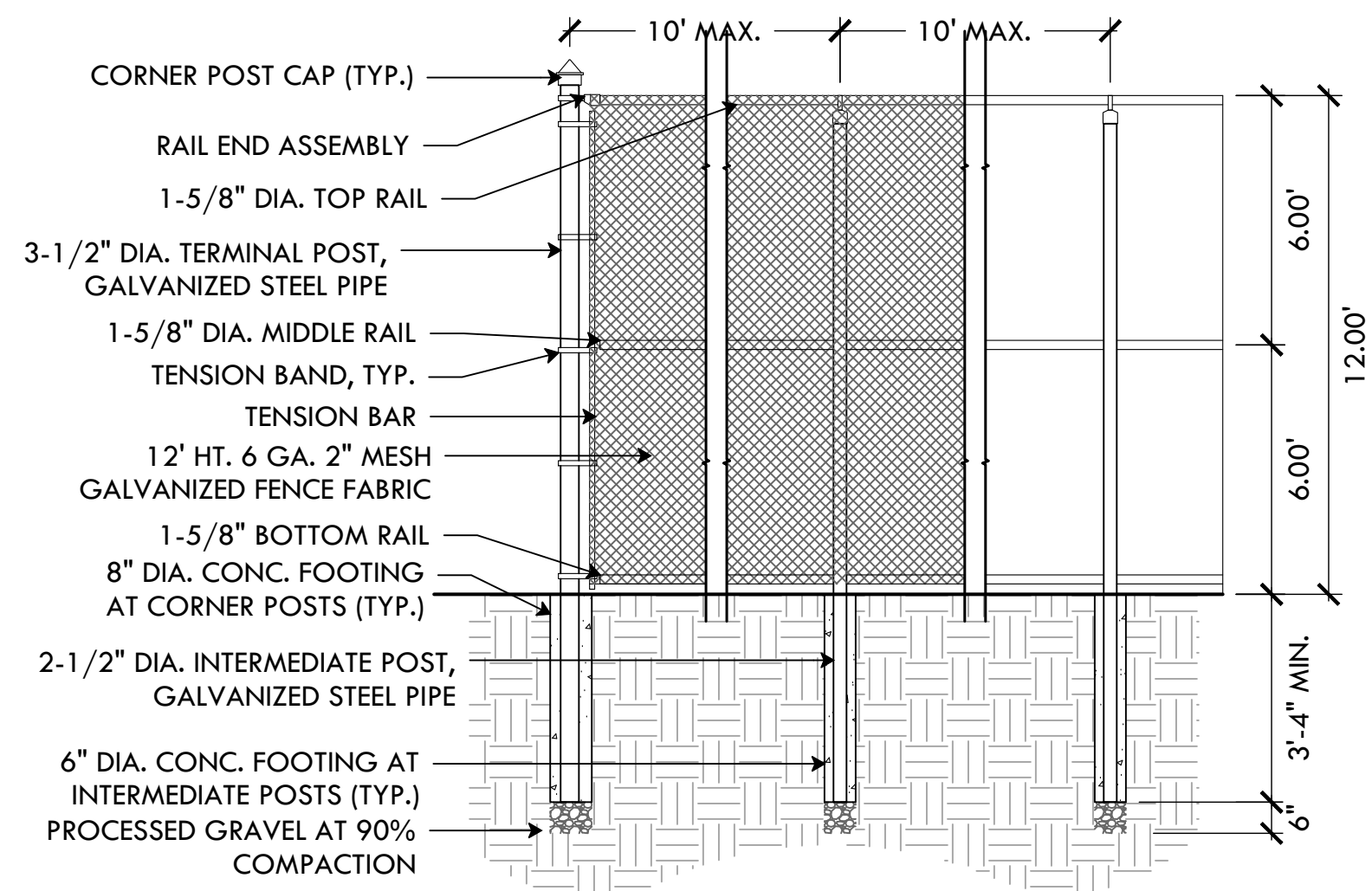
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DRAWING INFO

DATE ISSUED: 10/21/24
PROJECT NO: JAPK.24.01
DRAWN BY: SH, II
CHECKED BY: MG

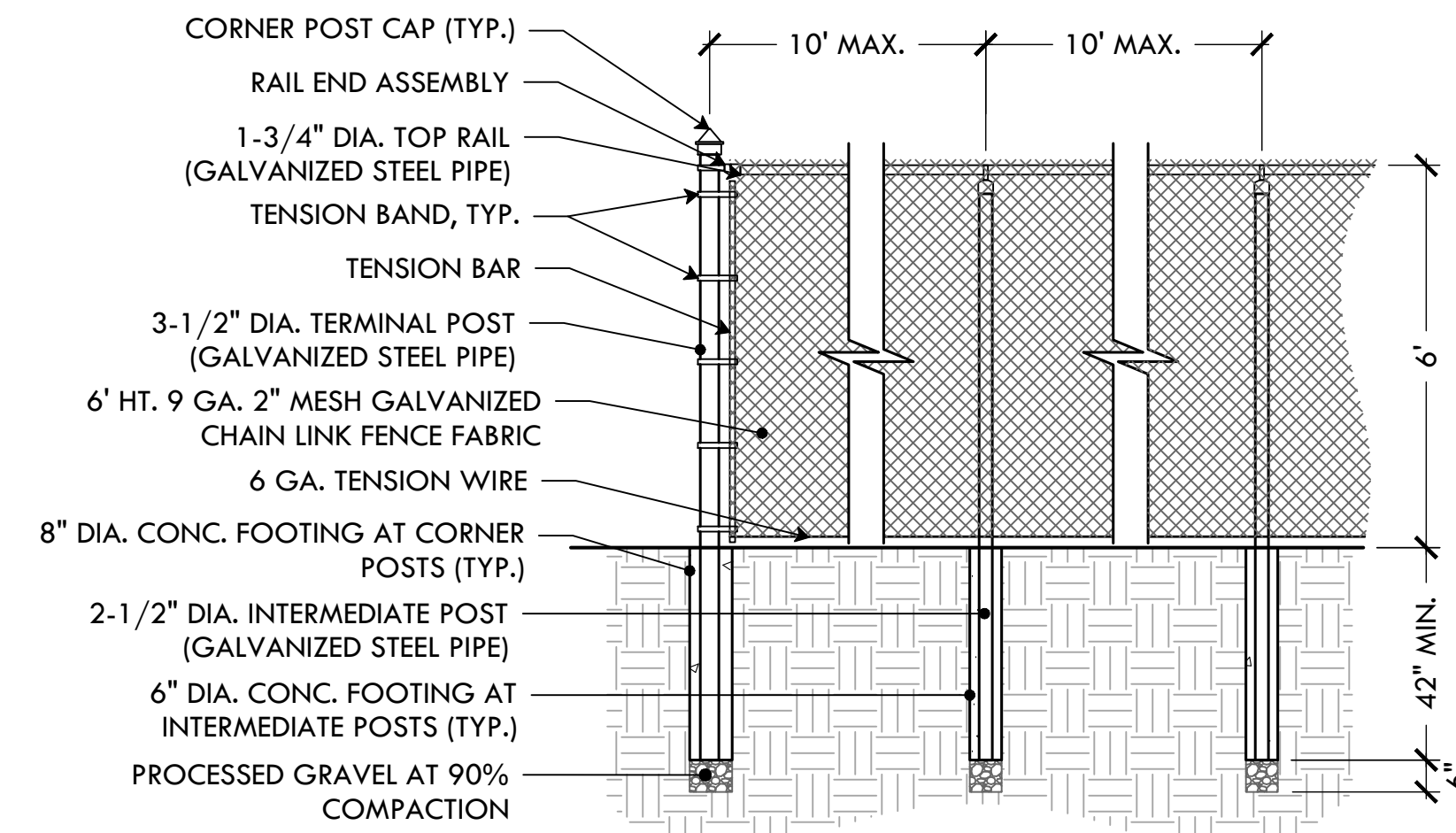
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Details



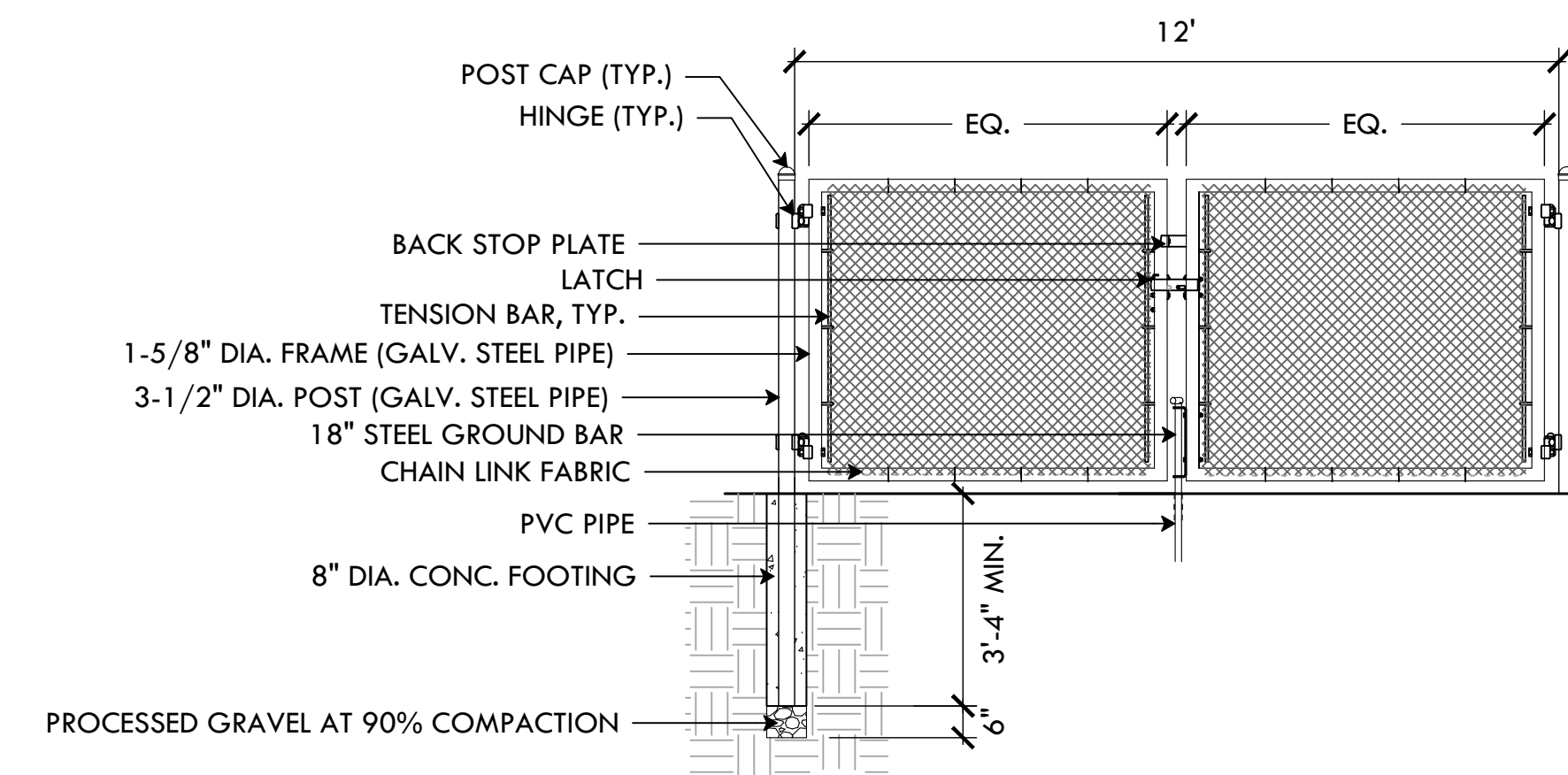
NOTES:
 FENCING TO BE TIED TO ALL RAILS & LINE POSTS W/ 9GA. WIRE SPACED AT 12"
 BRACE ALL CORNERS & TERMINAL POSTS W/ 1-3/4" DIA. GALV. STEEL PIPE AND APPROPRIATE FASTENERS

10 12' CHAIN LINK FENCE
 NTS

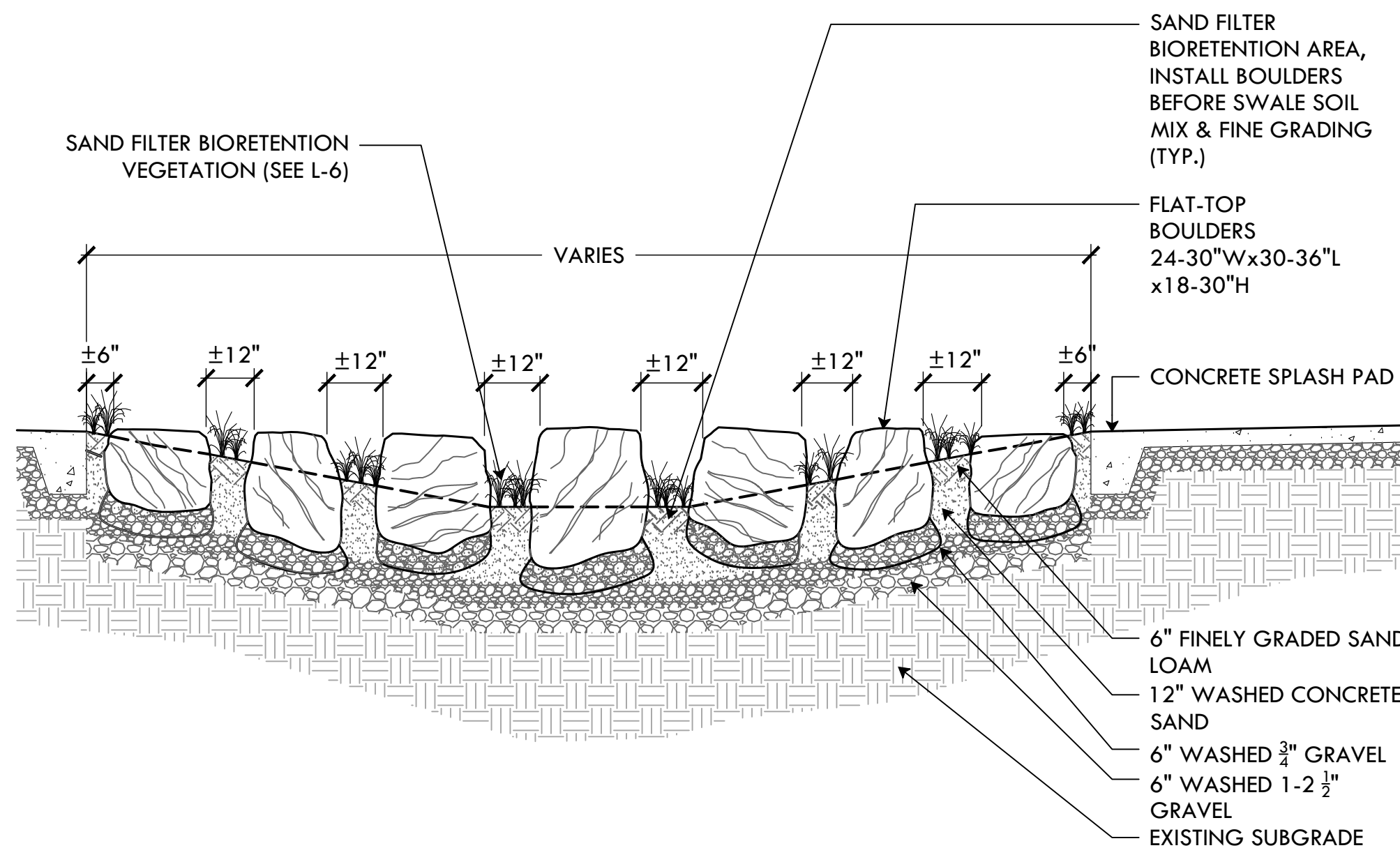


NOTES:
 1. FENCING TO BE TIED TO TOP RAILS & LINE POSTS W/ 9GA. WIRE SPACED AT 12"
 2. BRACE ALL CORNERS & TERMINAL POSTS W/ 1-3/4" DIA. GALVANIZED STEEL PIPE AND APPROPRIATE FASTENERS
 3. ALL FENCE ELEMENTS SHALL BE OF GALVANIZED STEEL CONSTRUCTION

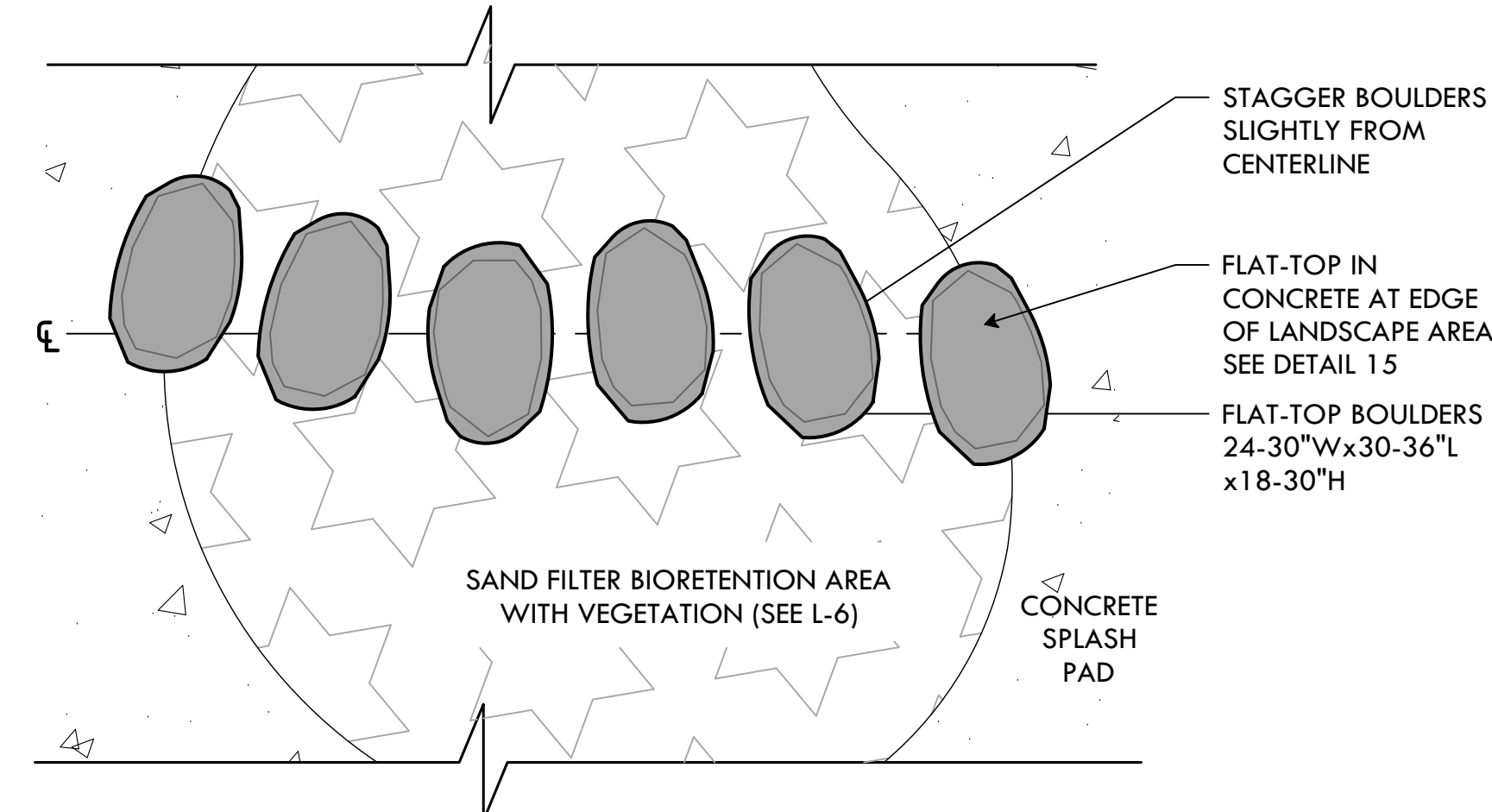
11 6' CHAIN LINK FENCE
 NTS



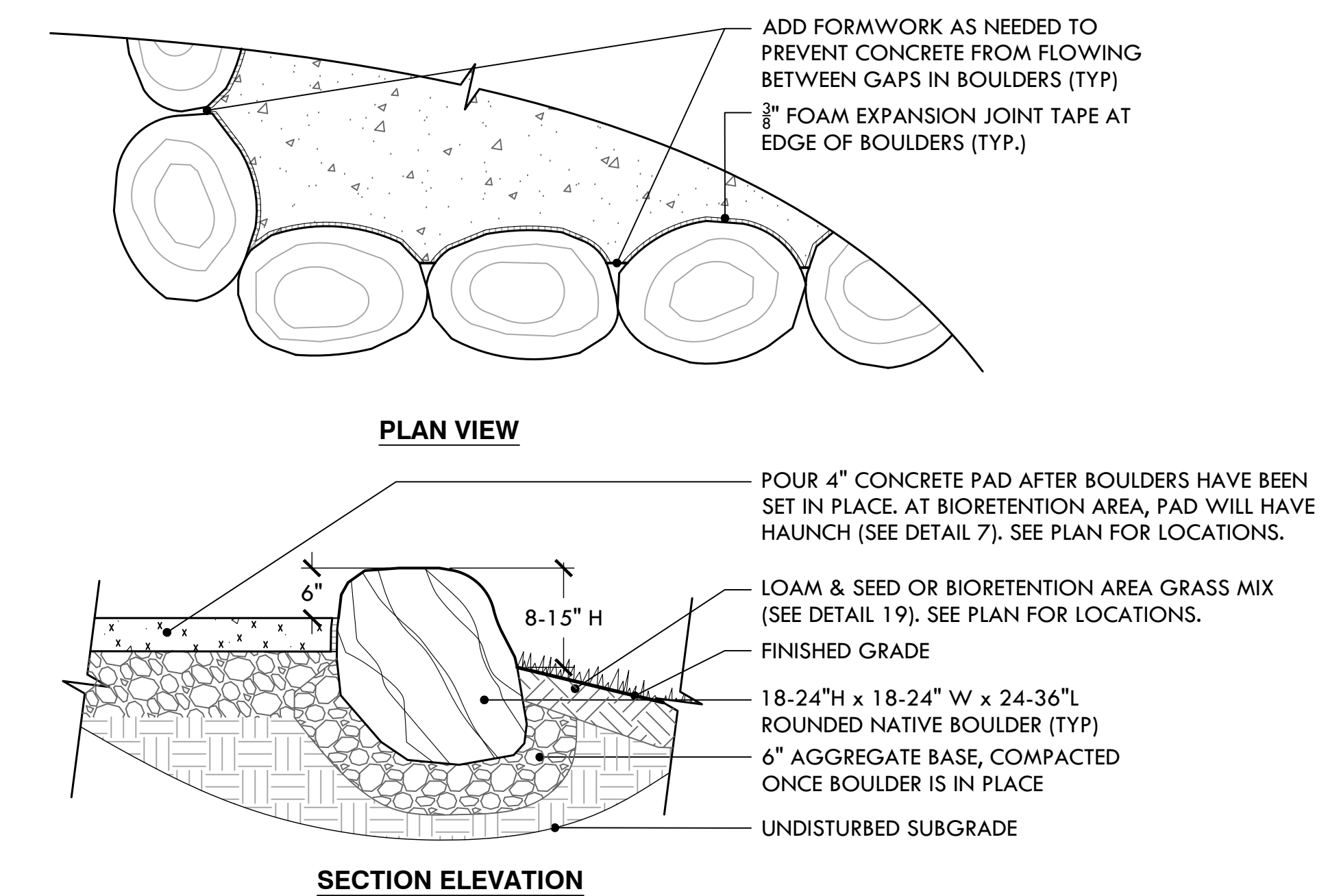
12 6' CHAIN LINK SERVICE GATE
 NTS



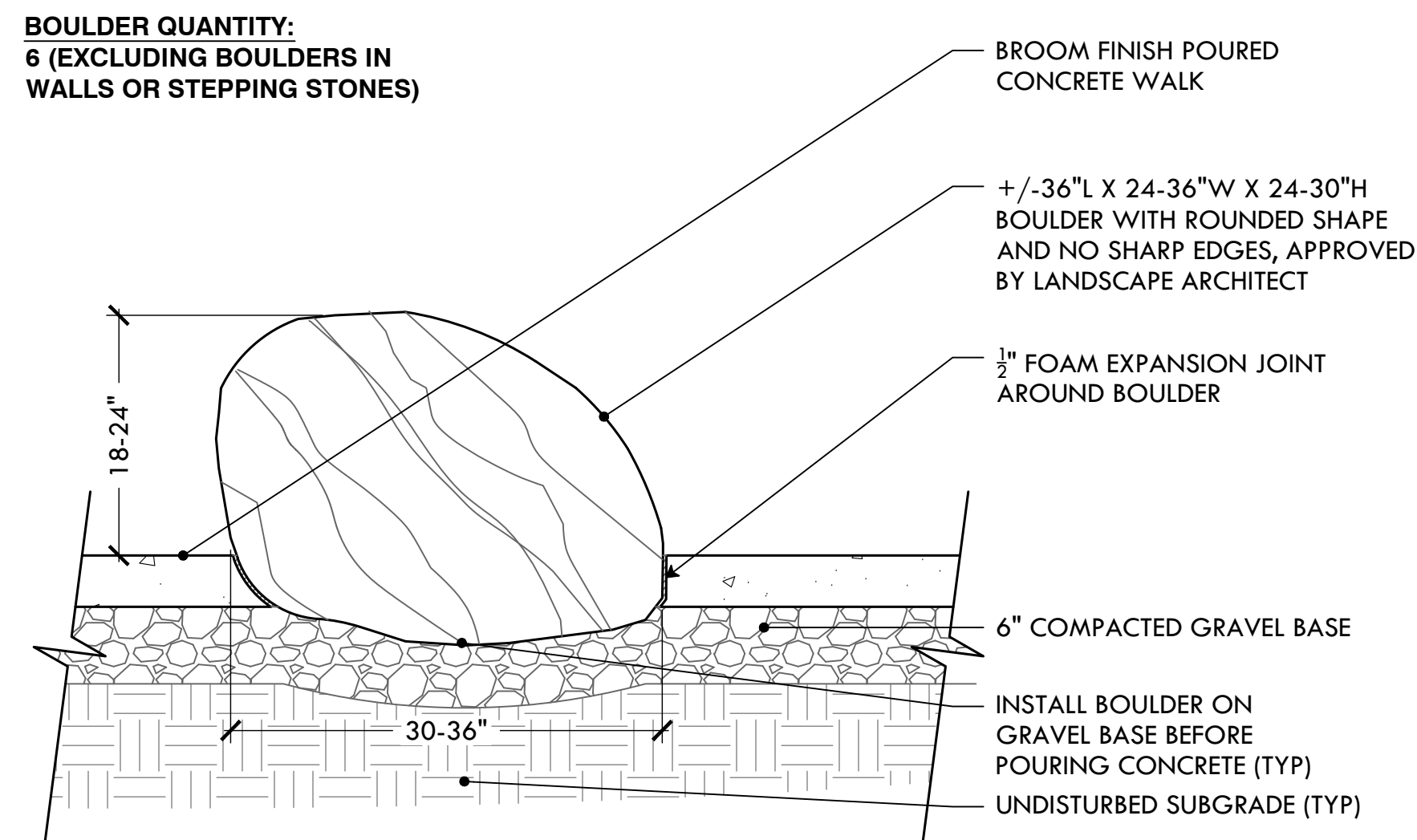
13 STEPPING STONES: SECTION ELEVATION
 NTS



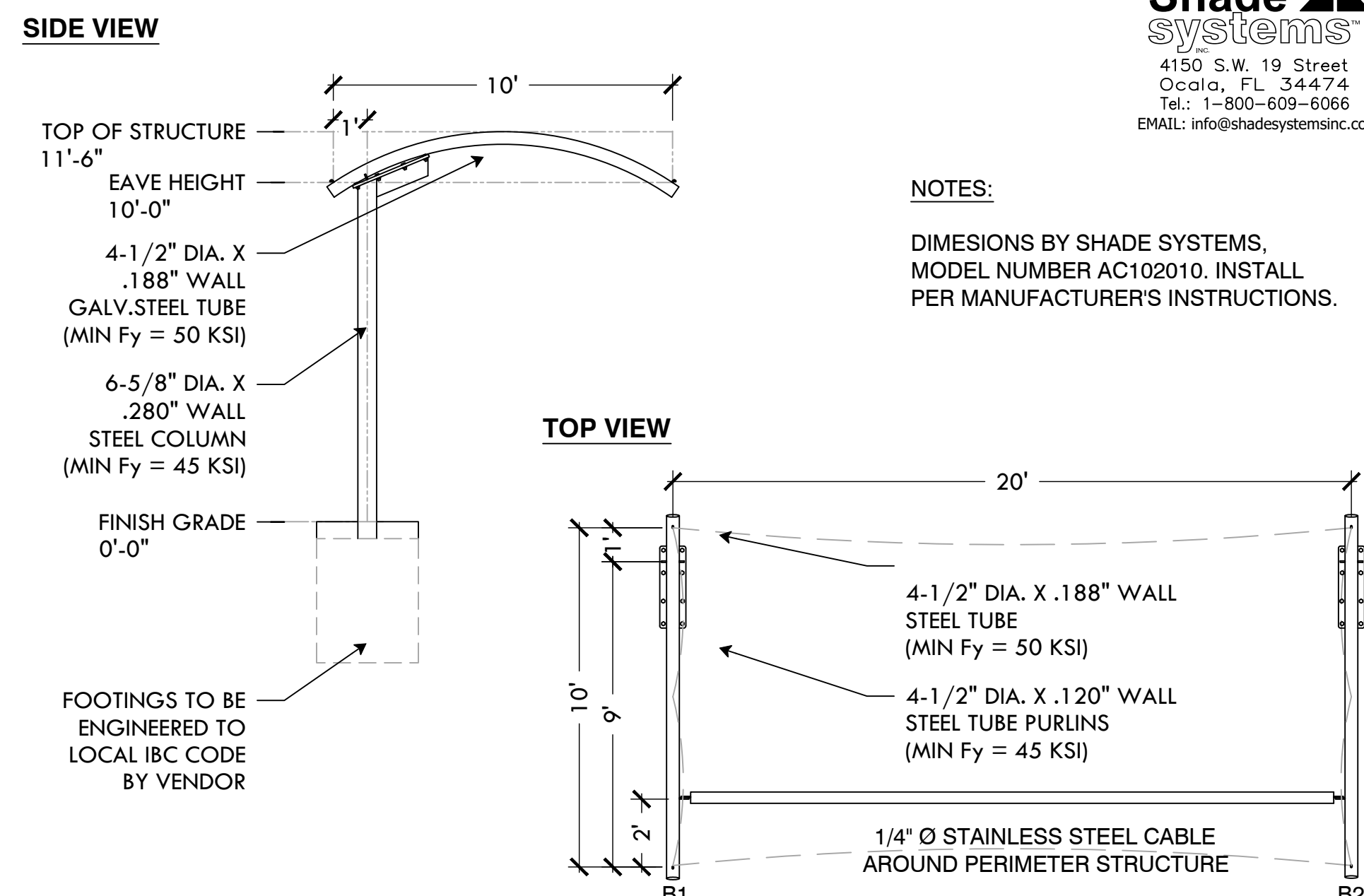
14 STEPPING STONES: PLAN VIEW
 NTS



15 STEPPING STONE OR BOULDER WALL AT EDGE OF CONCRETE
 NTS



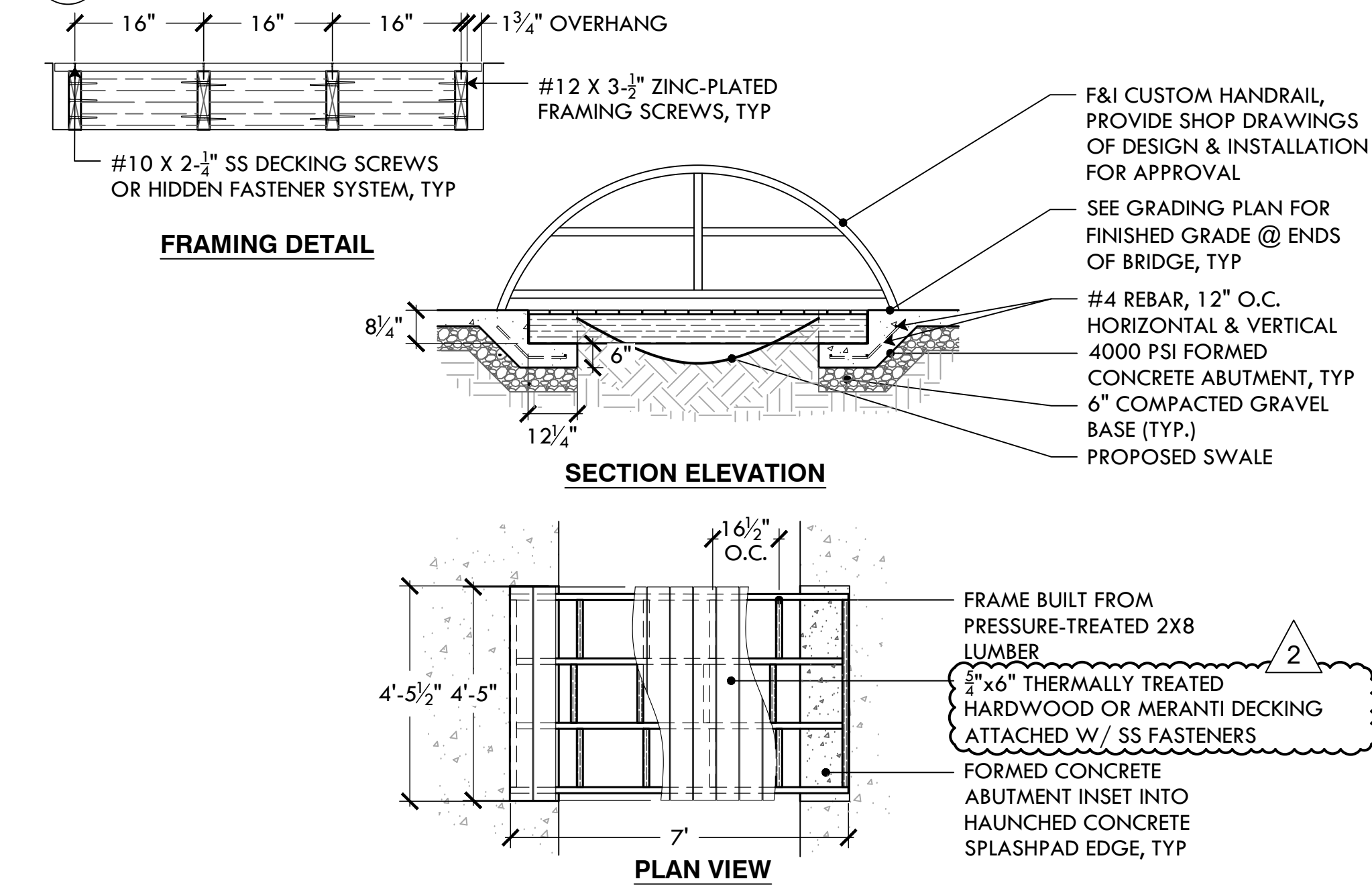
16 LANDSCAPE BOULDERS IN CONCRETE
 NTS



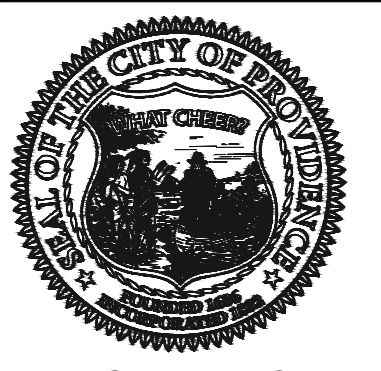
Shade systems
 4150 S.W. 19 Street
 Ocala, FL 34474
 Tel.: 1-800-609-6066
 EMAIL: info@shadesysteminc.com

NOTES:
 DIMESIONS BY SHADE SYSTEMS.
 MODEL NUMBER AC102010. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

17 ARCH CANTILEVER SHADE SYSTEM
 NTS



18 FOOTBRIDGE
 NTS



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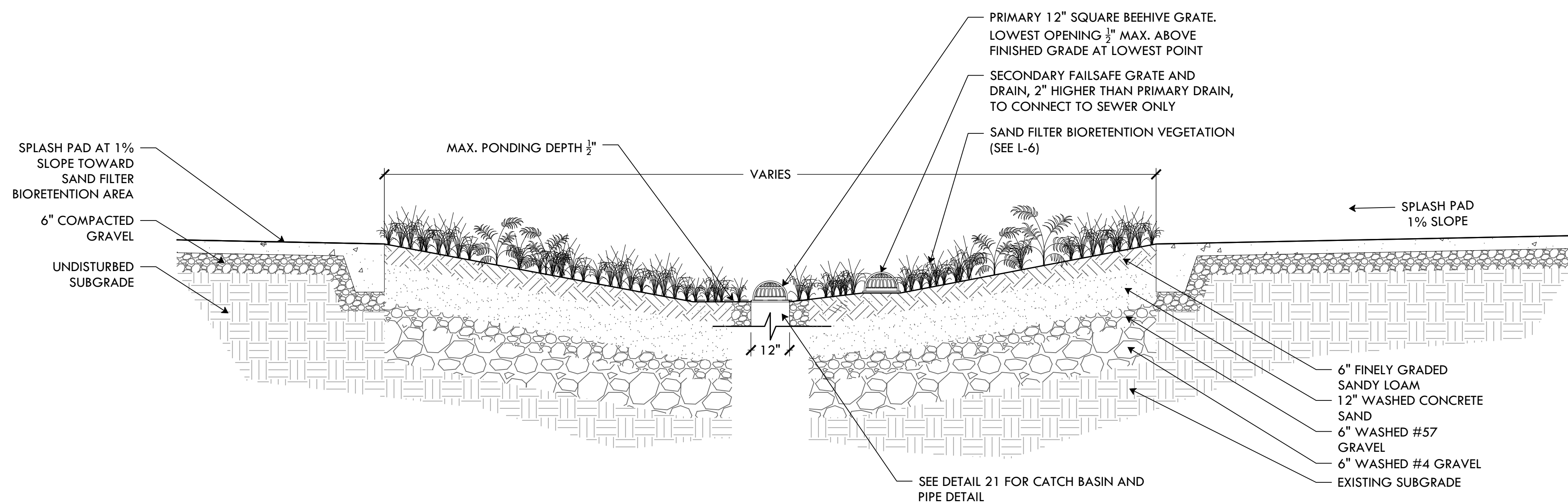
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SCALE

DRAWING INFO
 DATE ISSUED: 10/21/24
 PROJECT NO: JAPK.24.01
 DRAWN BY: SH, II
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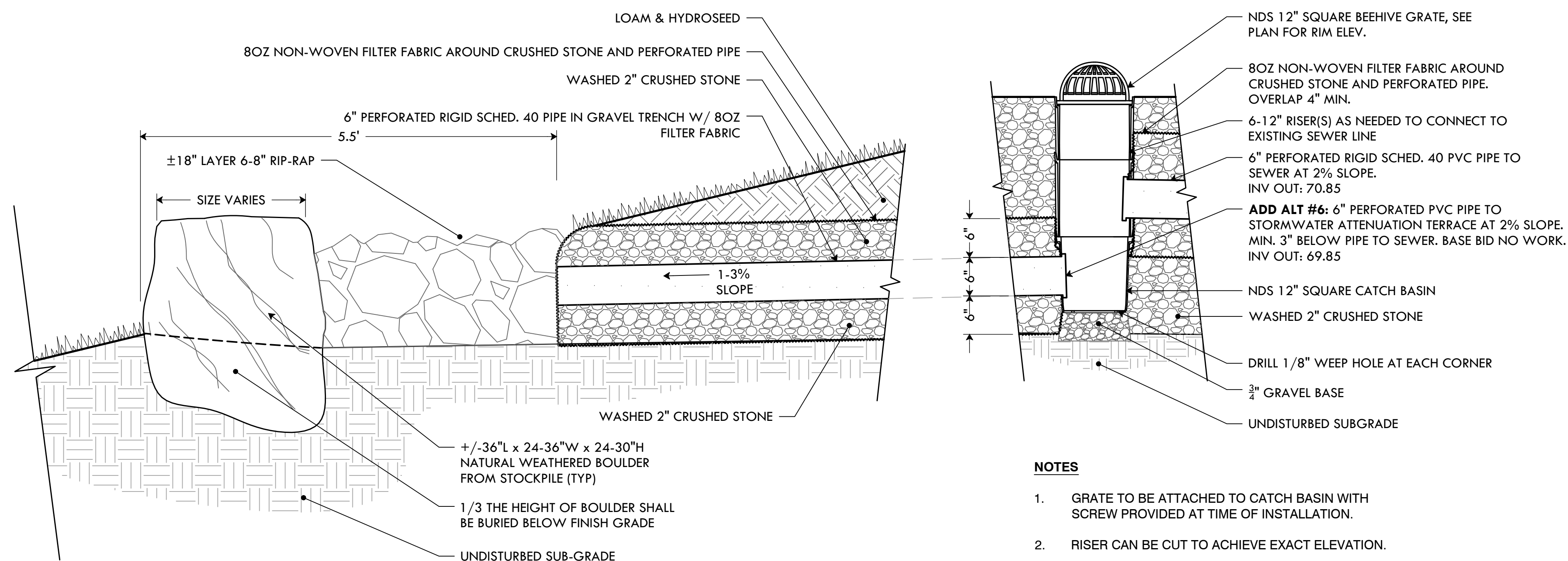
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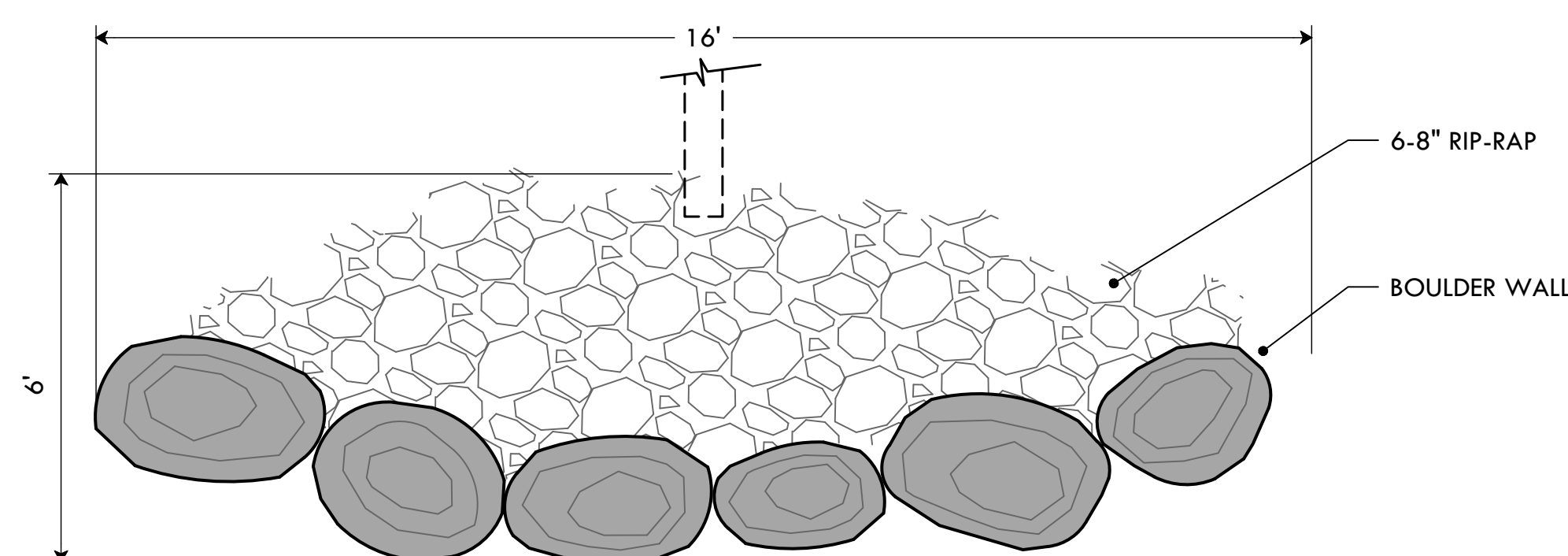
19 SAND FILTER BIORETENTION AREA
NTS

SECTION ELEVATION

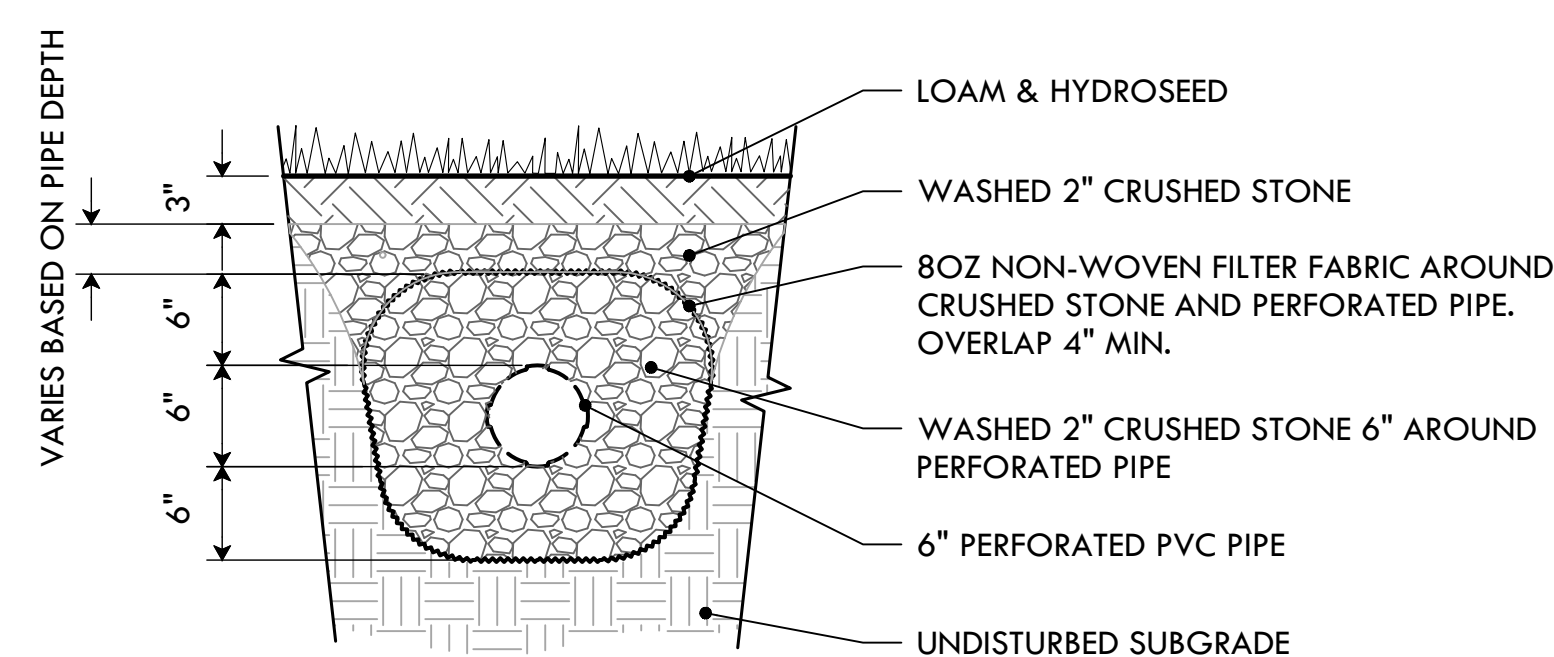


- NOTES**
1. GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.
 2. RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION.
 3. ALL AGGREGATES AND SOILS MUST BE EVALUATED BY AN INDEPENDENT INSTITUTION OR THE STATE'S COOPERATIVE EXTENSION.
 4. DEPTH OF EXISTING INVERT TO BE FIELD VERIFIED.

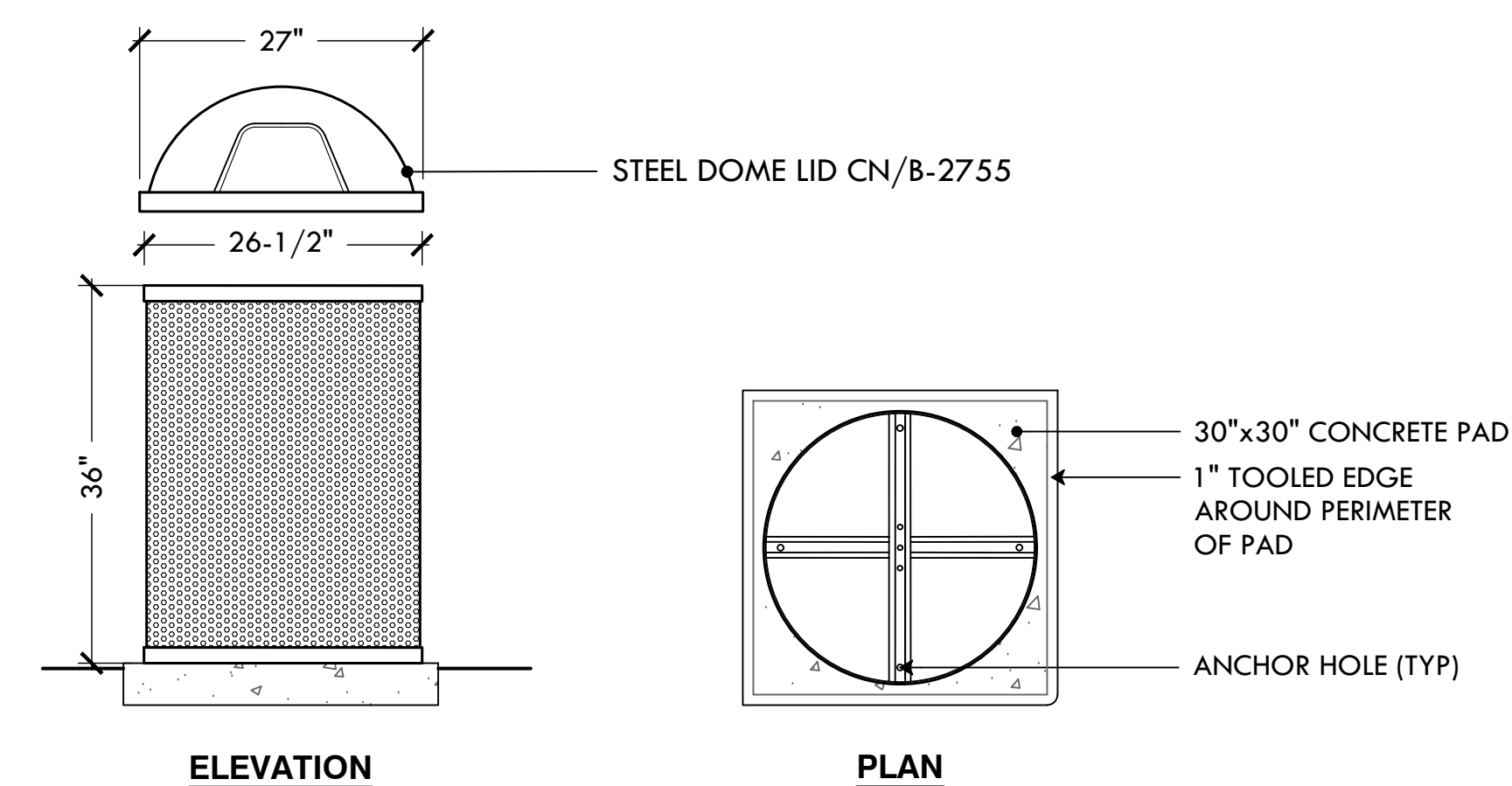
ADD ALT: ROCK SPREADER APRON PLAN VIEW



ADD ALT: TRENCH CROSS SECTION



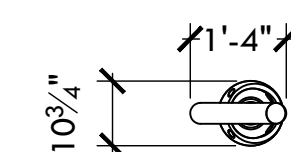
21 12" CATCH BASIN TO SEWER (BASE BID). ADD ALT #6: ADDITIONAL PERFORATED PIPE TO ROCK SPREADER APRON AT STORMWATER ATTENUATION TERRACE
NTS



- NOTES**
1. SEE DETAIL 5/L-7 FOR CONCRETE PAD.
 2. UNIT SHOULD BE SECURED TO CONCRETE PAD USING THE FOUR (4) ANCHOR HOLES.
 3. MODEL#: CN-R/R-55: PILOT ROCK 55 GAL. ROUND PERFORATED STEEL TRASH RECEPTACLE. COLOR: BLACK, MATERIAL: STEEL.
 4. MODEL#: CN-2755: PILOT ROCK 27" O.D. DOME LID. COLOR: BLACK, MATERIAL: STEEL.
 5. MODEL#: CN/B-1829: PILOT ROCK 55 GAL. 23-5/8" O.D. X 35" HT., HEAVY DUTY RIGID PLASTIC LINER.

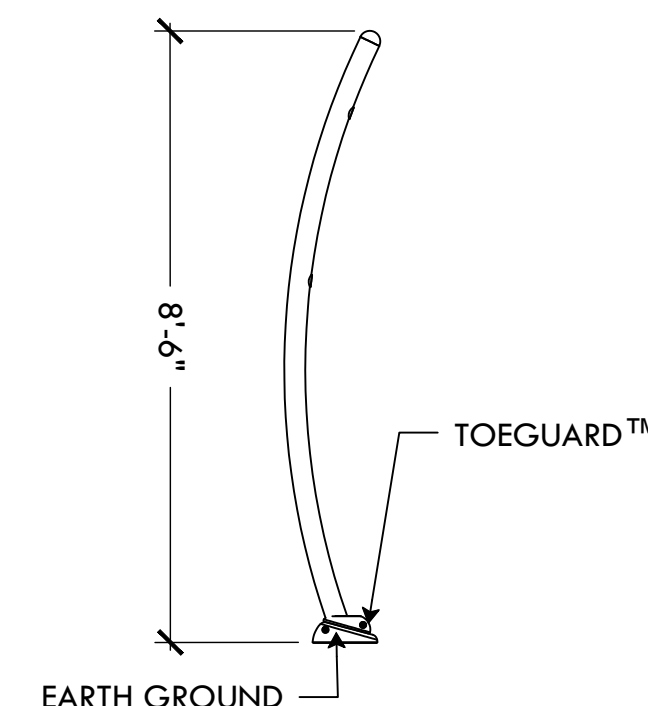
20 55-GAL TRASH RECEPTACLE WITH DOME
NTS

PLAN VIEW



NOTE: THE PRODUCT MUST BE PROVIDED BY A CONTINUOUS WATER SYSTEM (POTABLE)

FRONT ELEVATION VIEW

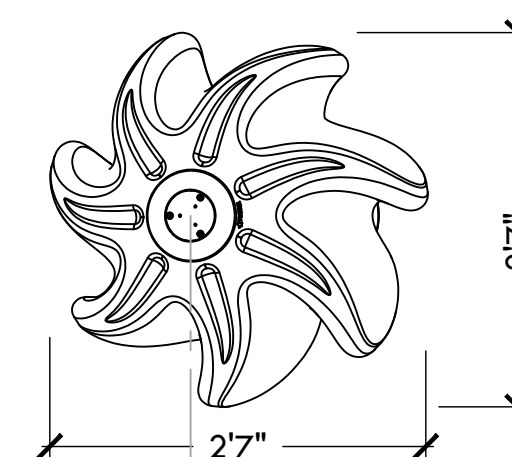


SIDE ELEVATION VIEW

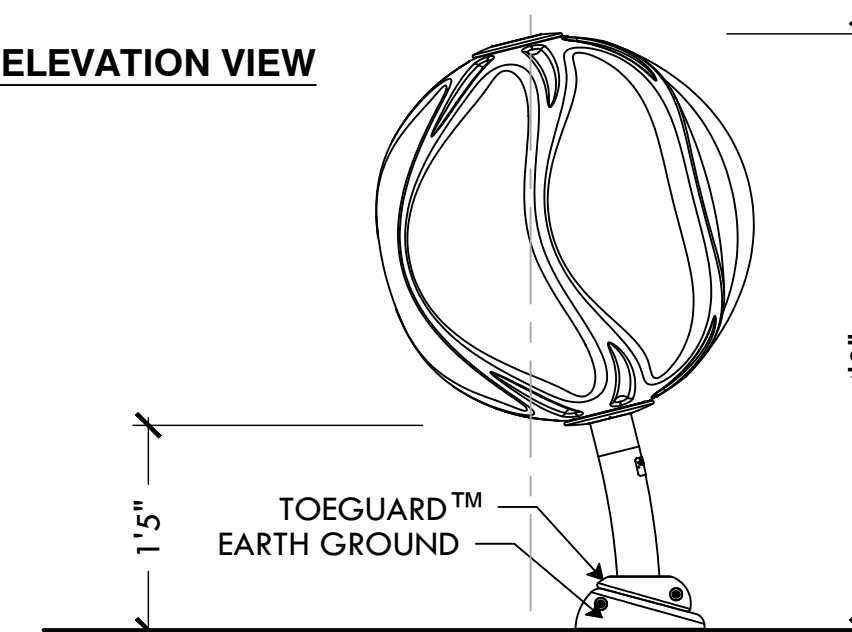


22 VORTEX 8767 - REFRESH NO. 1
NTS

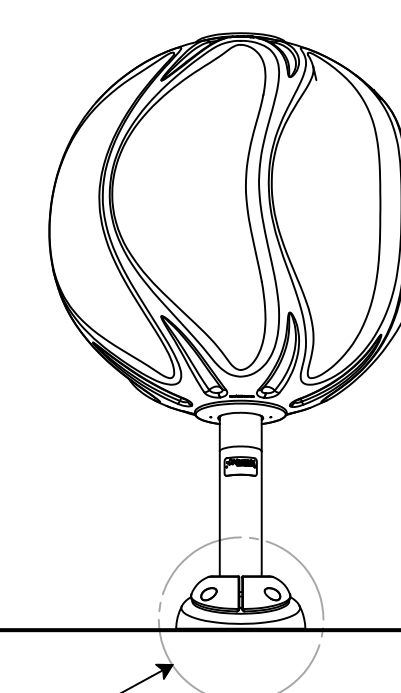
PLAN VIEW



FRONT ELEVATION VIEW

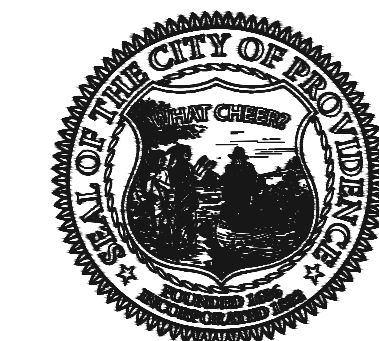


SIDE ELEVATION VIEW



TYPICAL ANCHORING SAFESWAP No.2

23 VORTEX 7238 - HELIO NO. 3
NTS



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PROVIDENCE, RI 02905



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Providence, RI

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Date	Issued For:
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NORTH ARROW

SCALE

DRAWING INFO

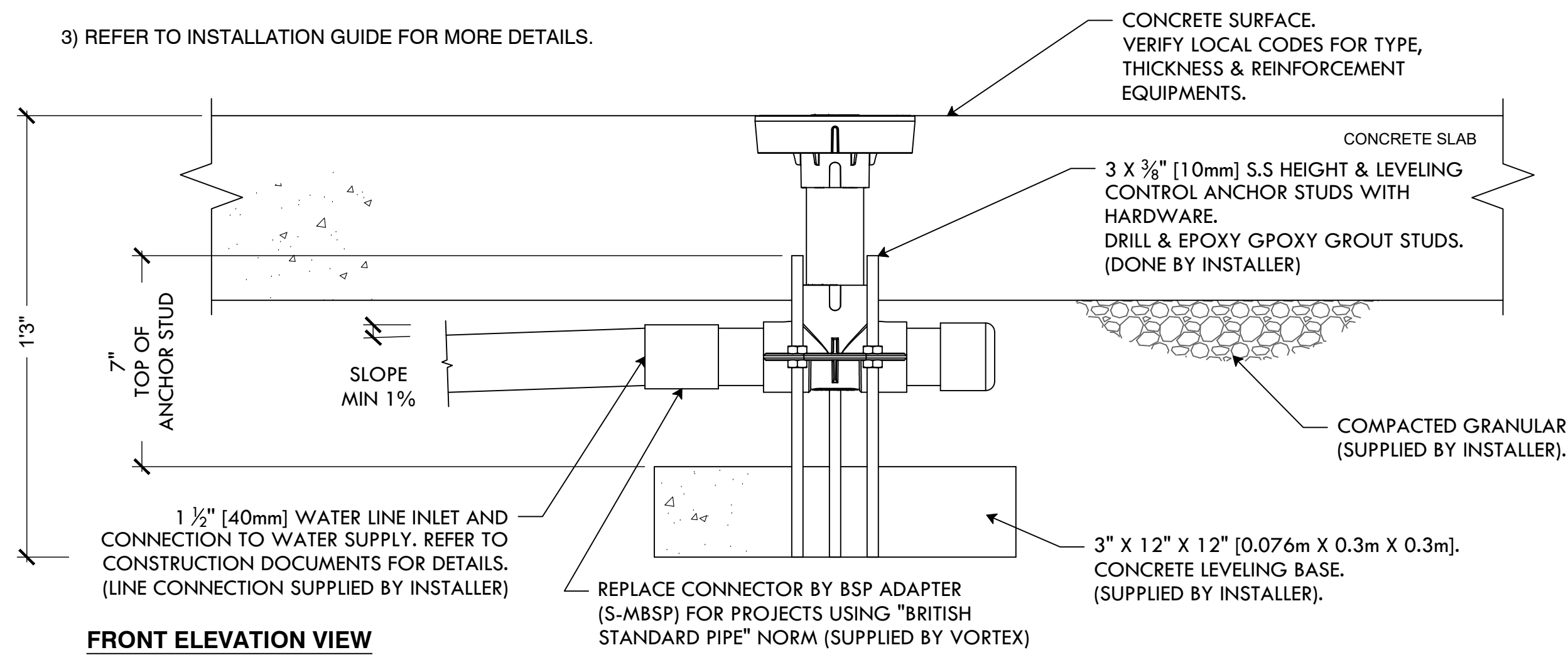
DATE ISSUED: 10/21/24
PROJECT NO: JAPK.24.01
DRAWN BY: SH, II
CHECKED BY: MG

SHEET TITLE

Details

NOTES:

- 1) "BY INSTALLER/BY CONTRACTOR" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.
- 2) POLYMER ENCAPSULATED ASSEMBLY. NO EARTH GROUNDING AND NO BONDING RECOMMENDED FOR SPRAYLINK™ SYSTEM. FOLLOW LOCAL CODE.
- 3) REFER TO INSTALLATION GUIDE FOR MORE DETAILS.



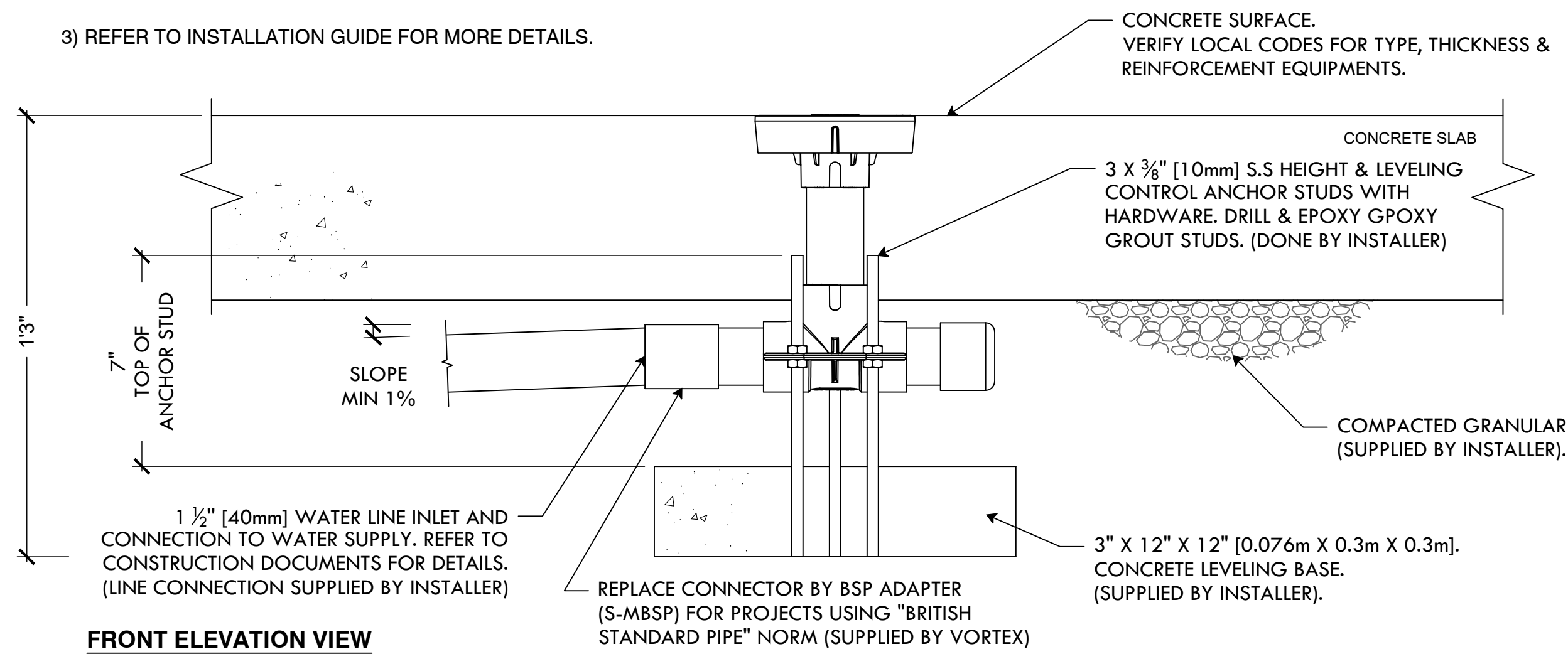
FRONT ELEVATION VIEW

24 VORTEX 3000 - SPRAYLINK JET NO. 1

NTS

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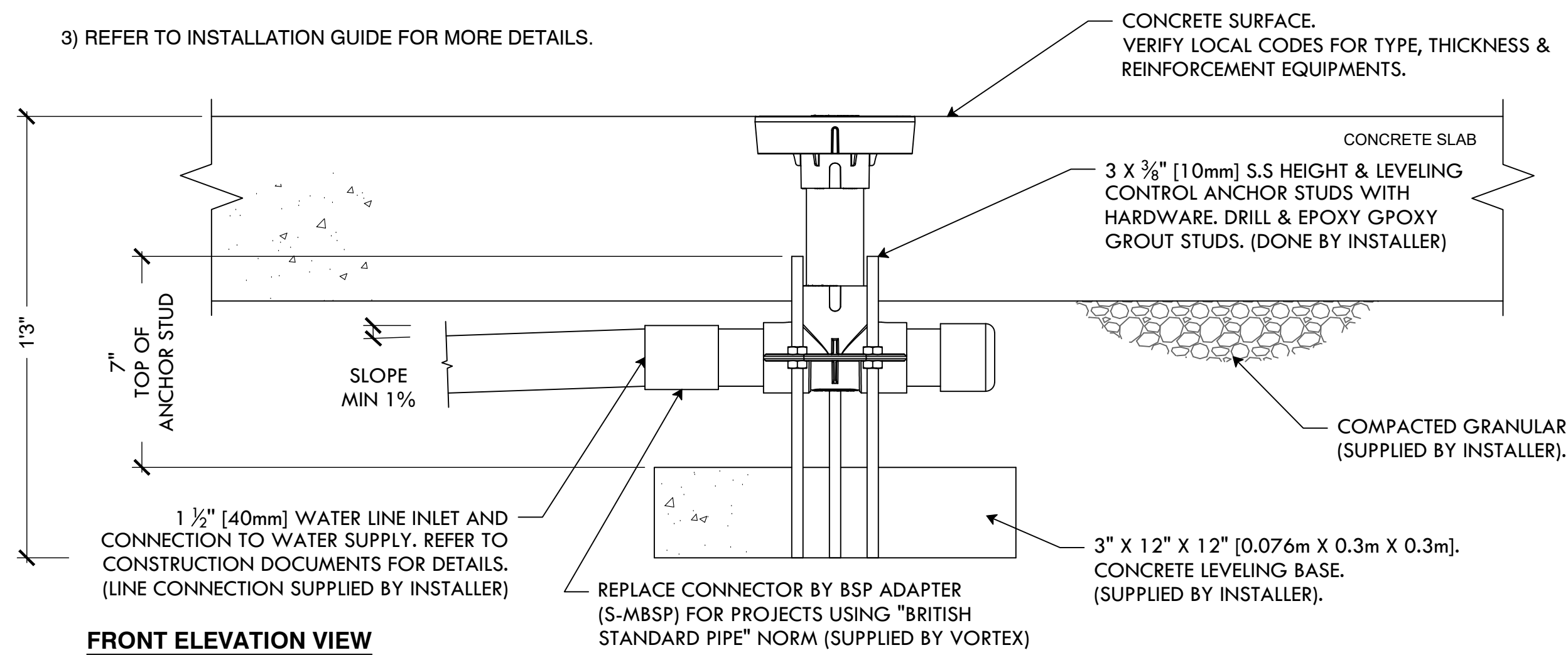
FRONT ELEVATION VIEW

26 VORTEX 3005 - SPRAYLINK GEYSER

NTS

NOTES:

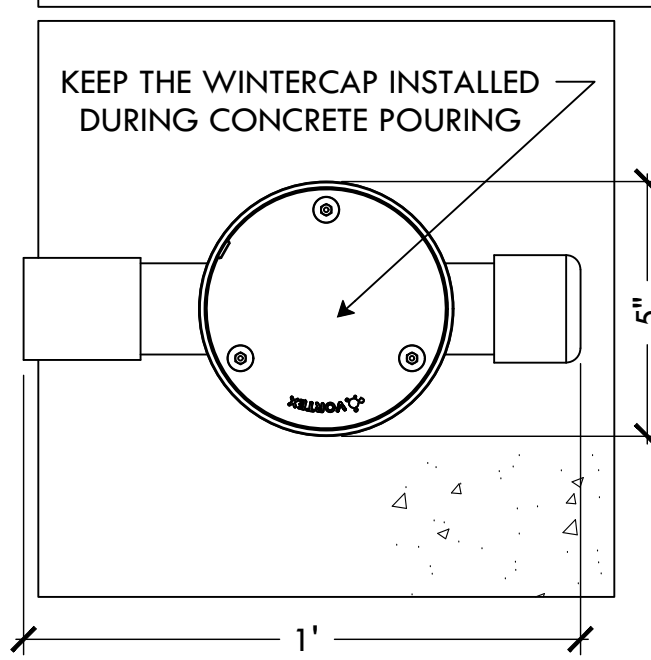
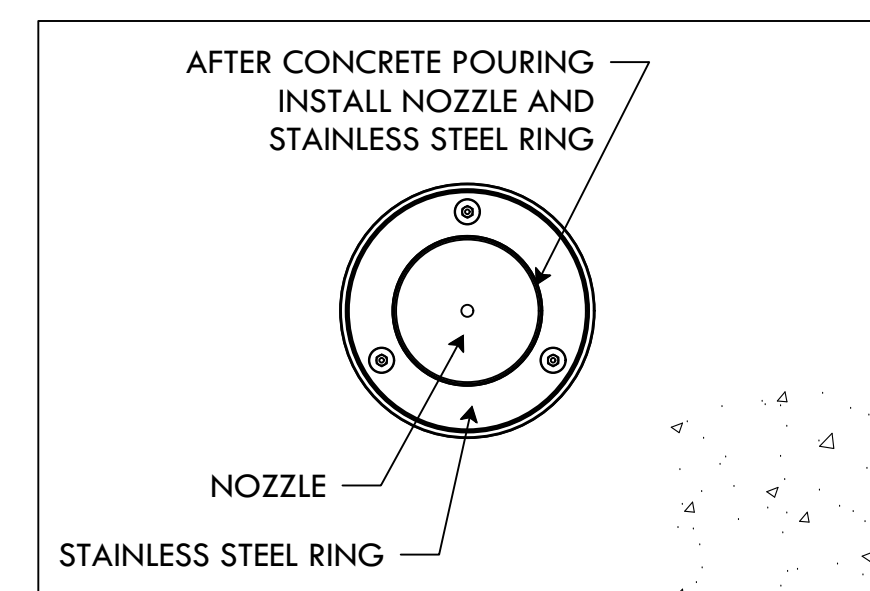
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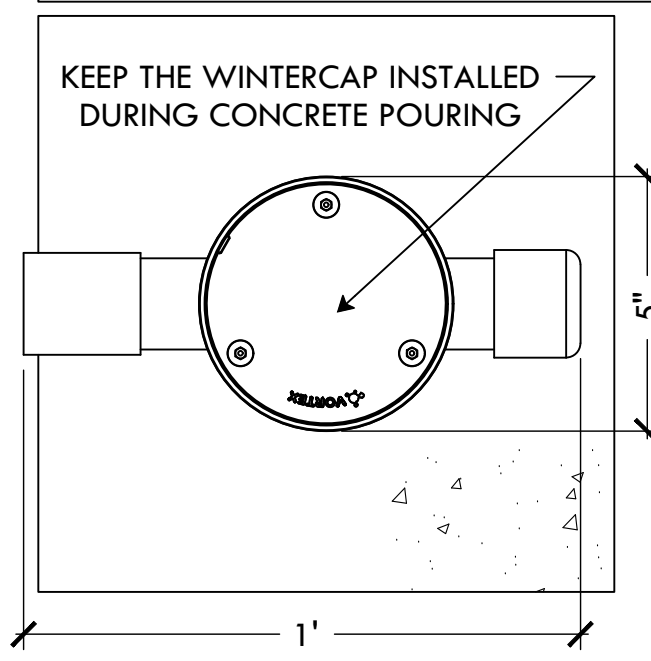
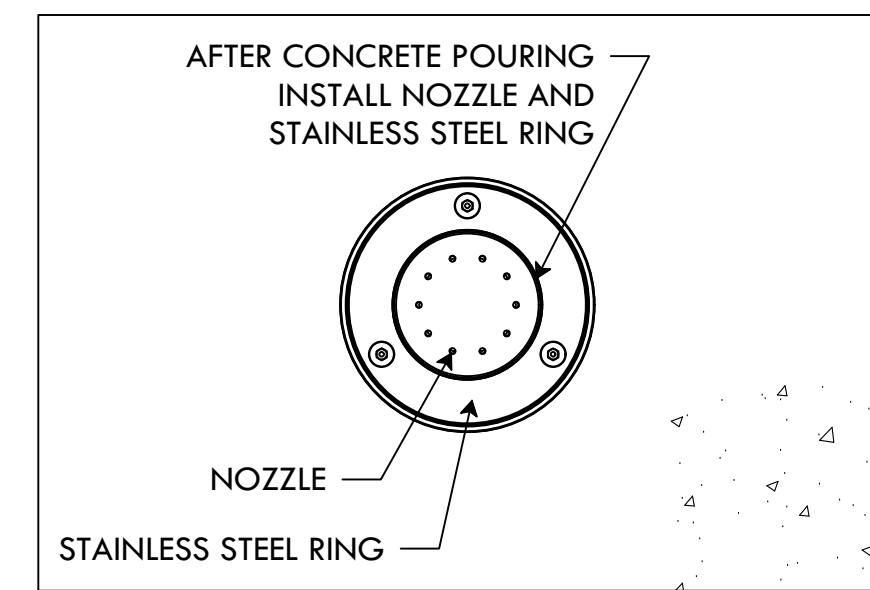
FRONT ELEVATION VIEW

28 VORTEX 3005 - SPRAYLINK FOUNTAIN

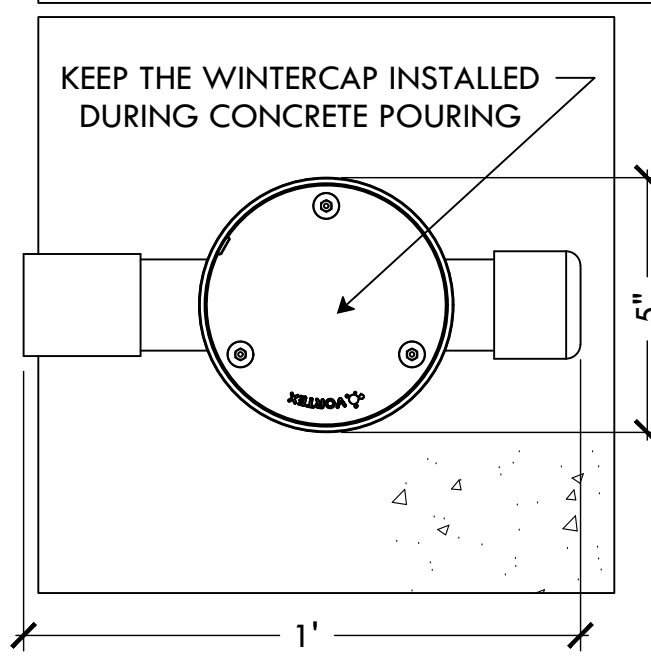
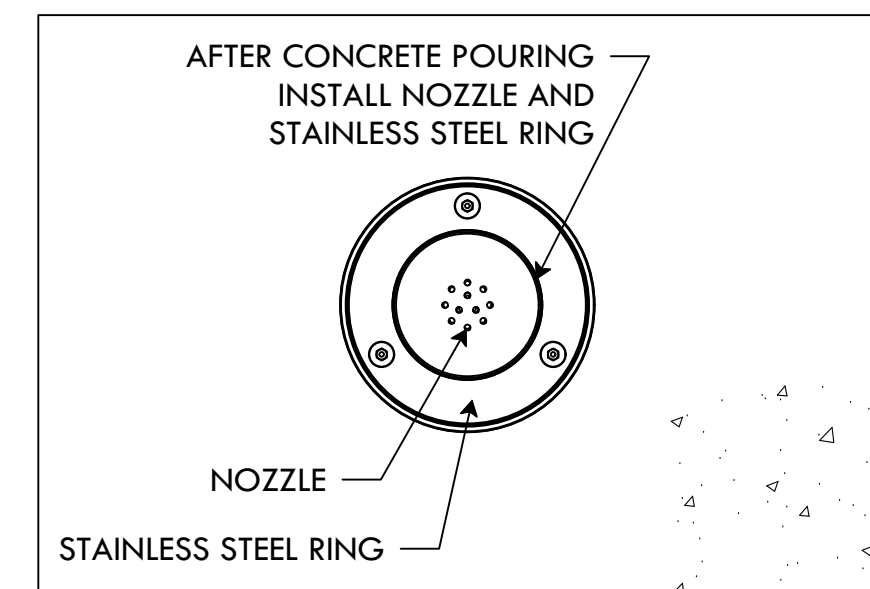
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PLAN VIEW

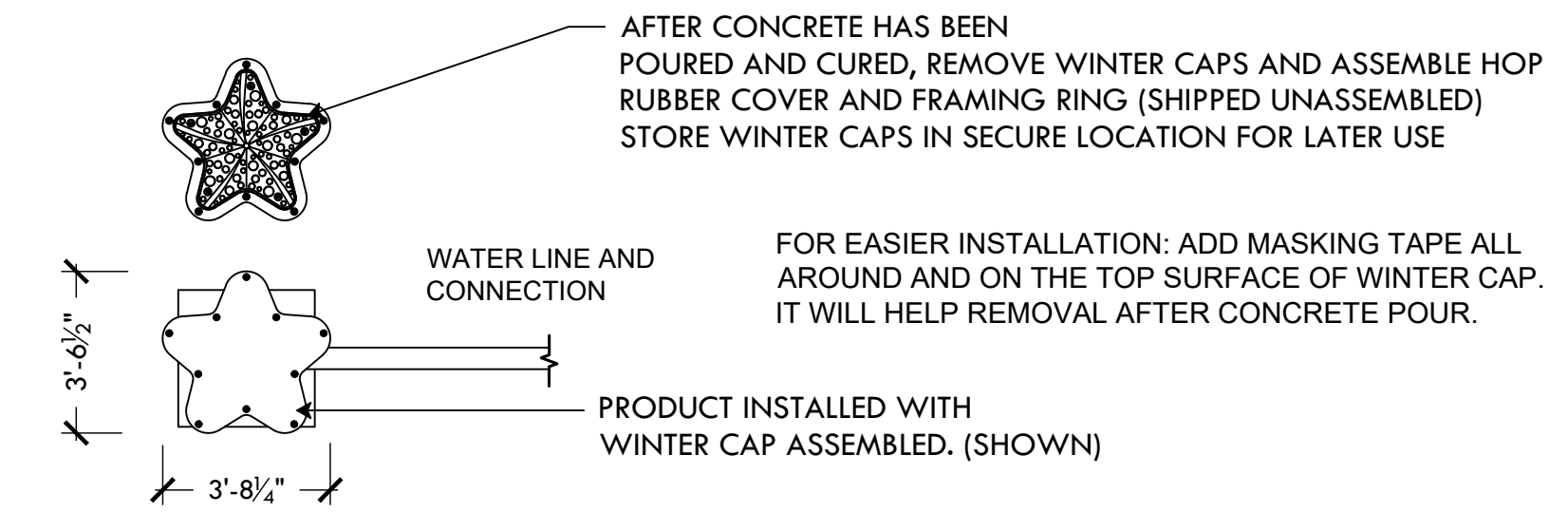


PLAN VIEW

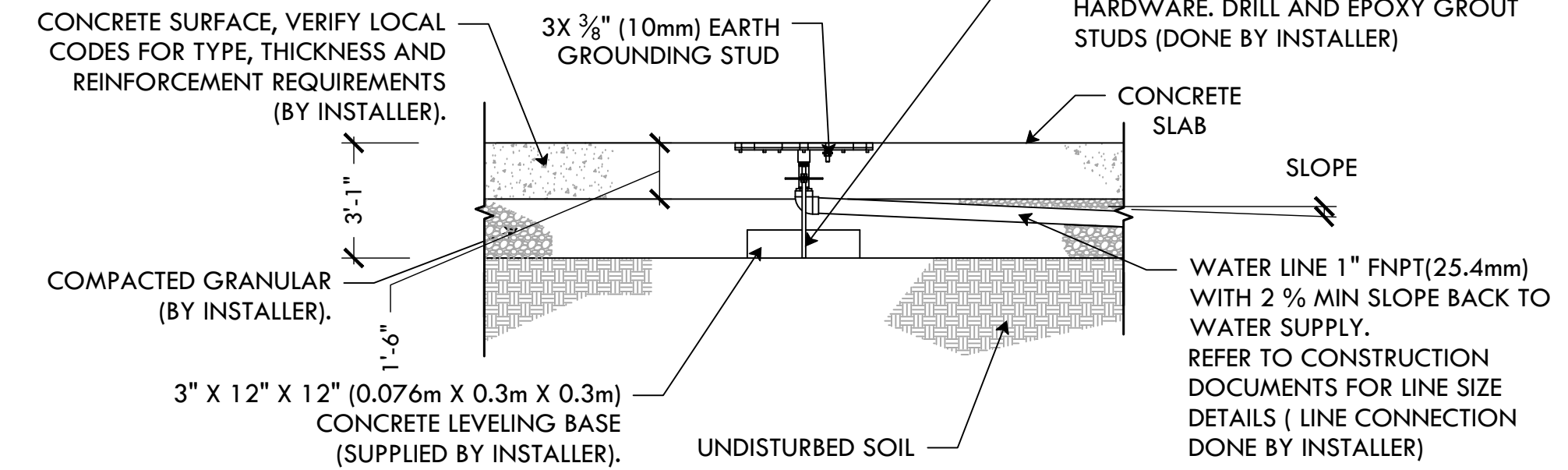


PLAN VIEW

PLAN VIEW



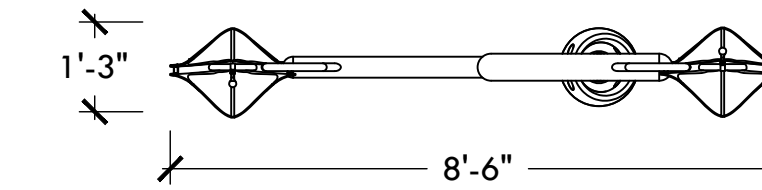
FRONT ELEVATION VIEW



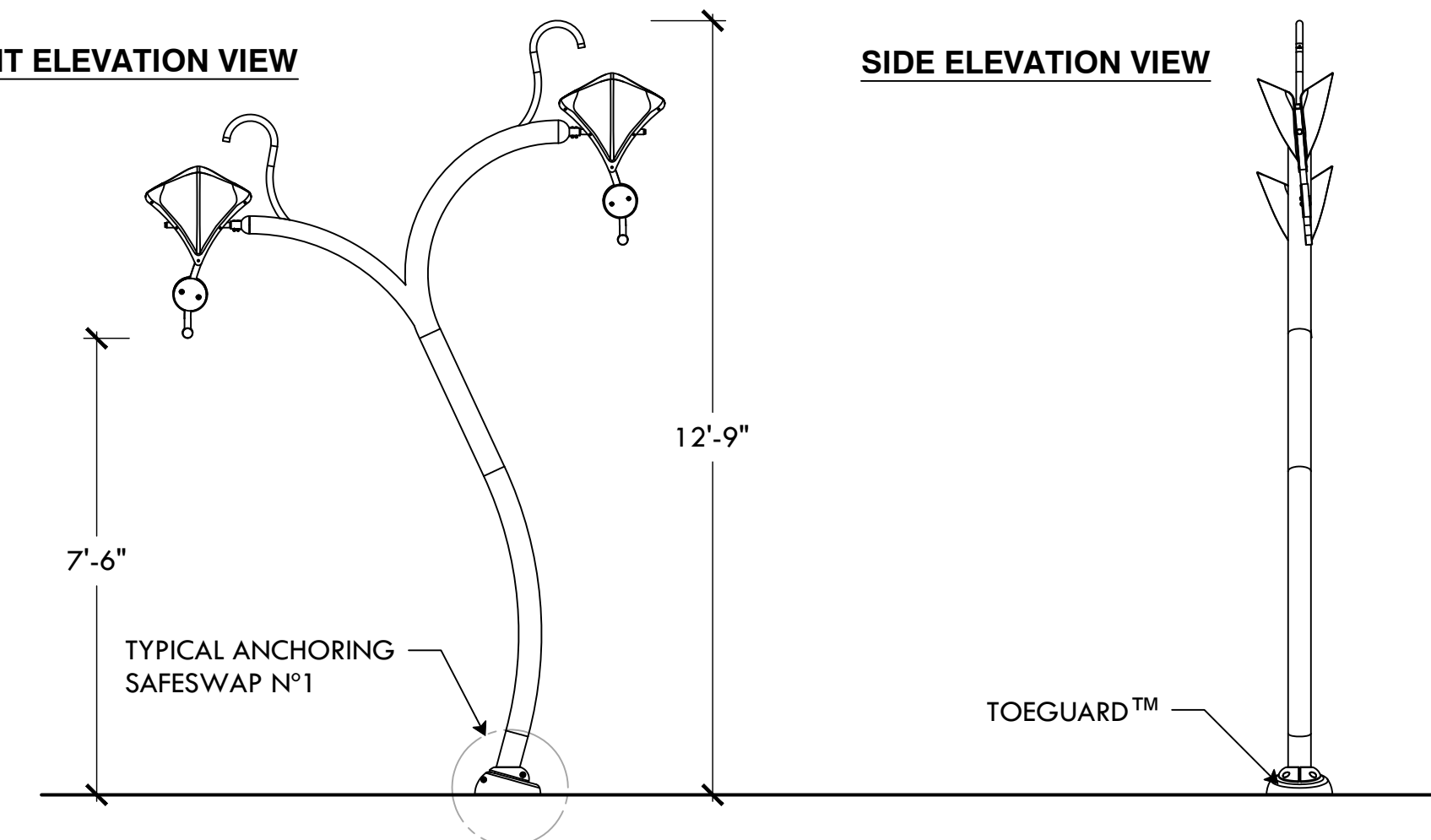
25 VORTEX 7254 - HOP STARFISH

NTS

PLAN VIEW



FRONT ELEVATION VIEW

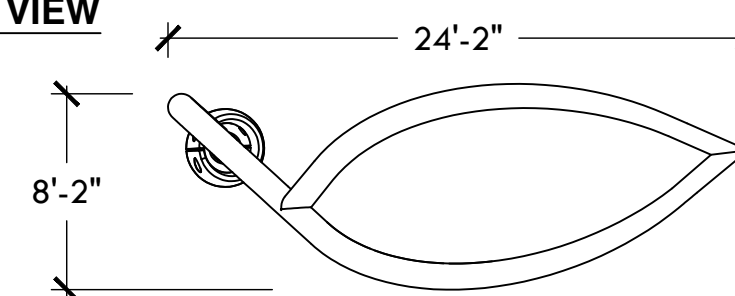


SIDE ELEVATION VIEW

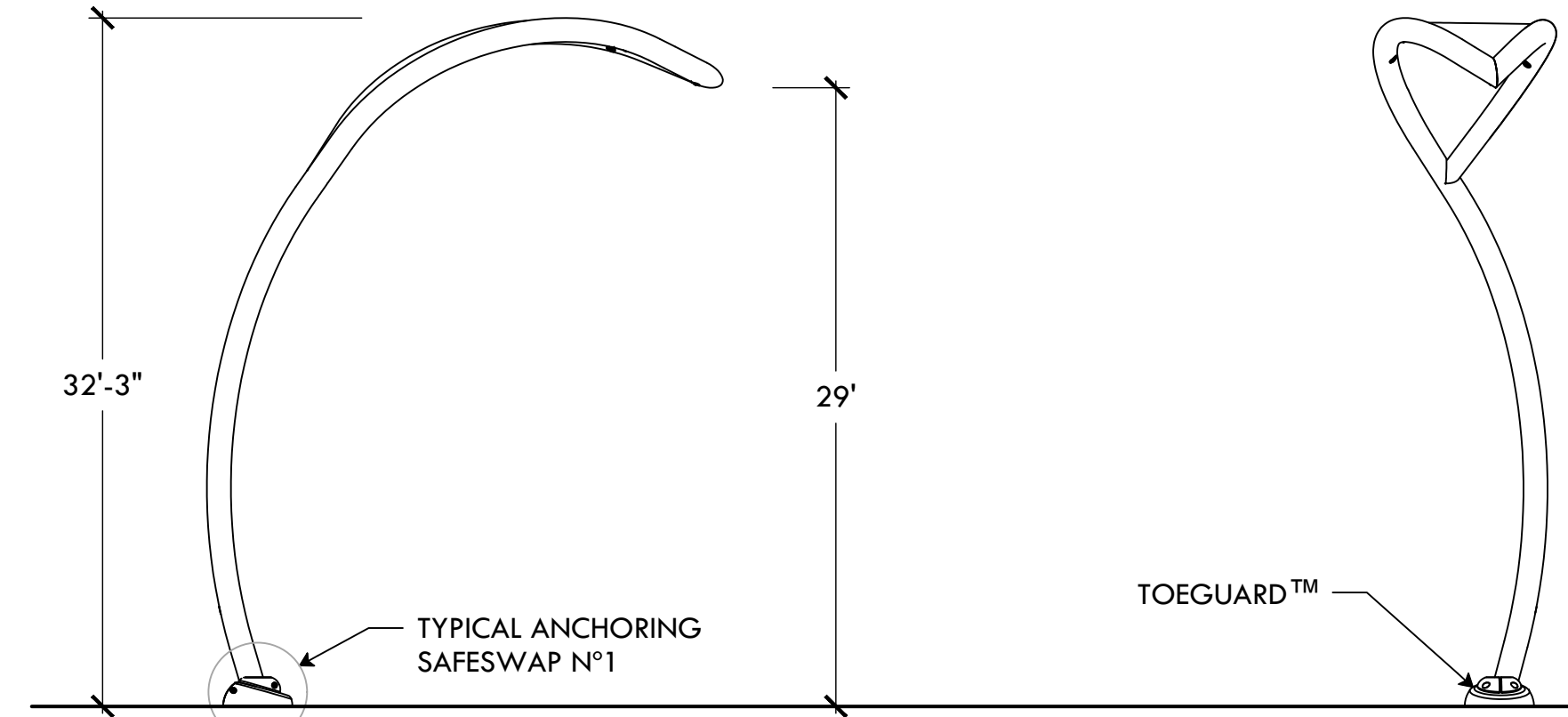
27 VORTEX 7557 - FLOWER NO. 5

NTS

PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW

29 VORTEX 7657 - LEAF NO. 2

NTS



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NORTH ARROW

SCALE

DRAWING INFO

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DRAWN BY: SH, II
CHECKED BY: MG

SHEET TITLE

Details

L-10

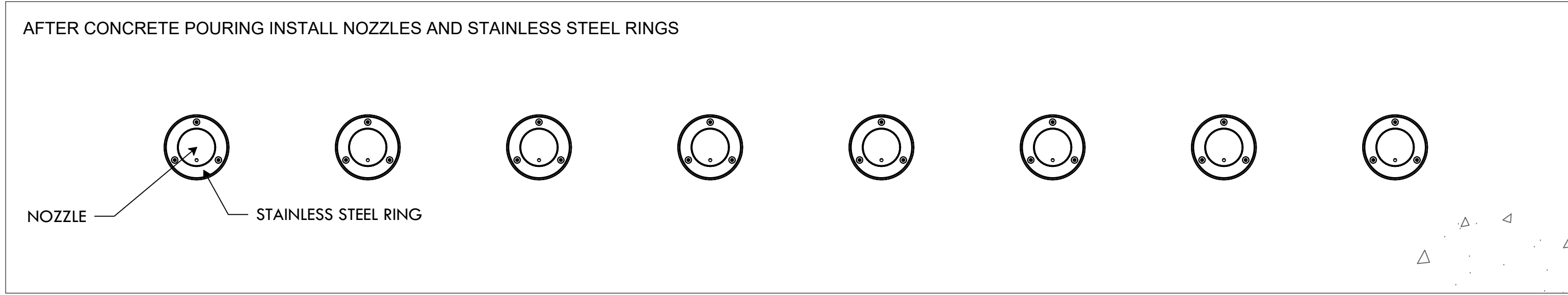
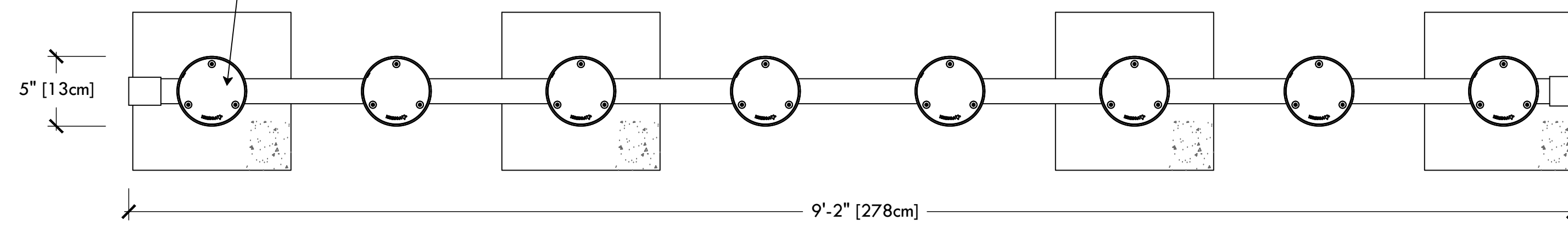
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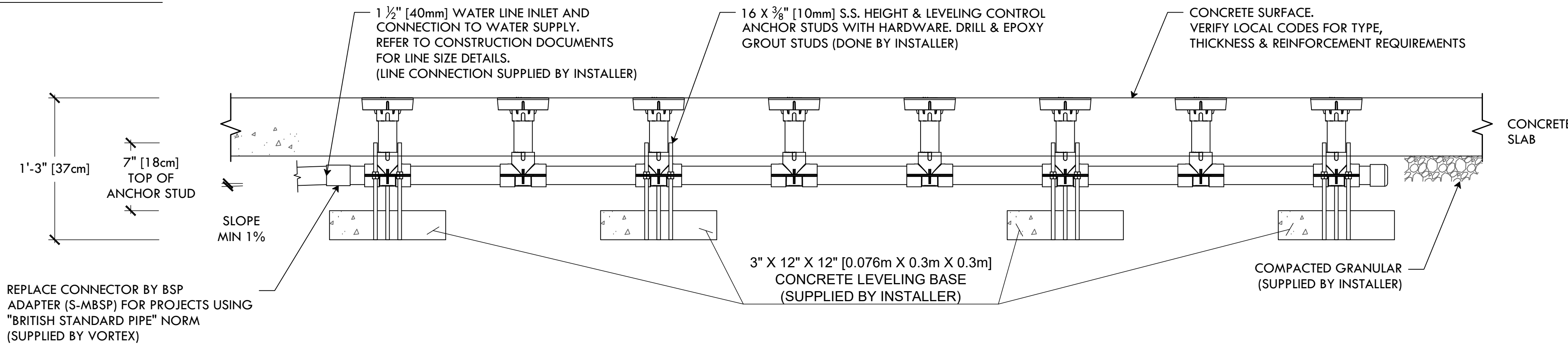
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- 2) POLYMER ENCAPSULATED ASSEMBLY NO EARTH GROUNDING AND NO BONDING RECOMMENDED FOR SPRAYLINK™ SYSTEM. FOLLOW LOCAL CODE
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PLAN VIEW

KEEP THE WINTERCAPS INSTALLED DURING THE CONCRETE POURING



FRONT ELEVATION VIEW

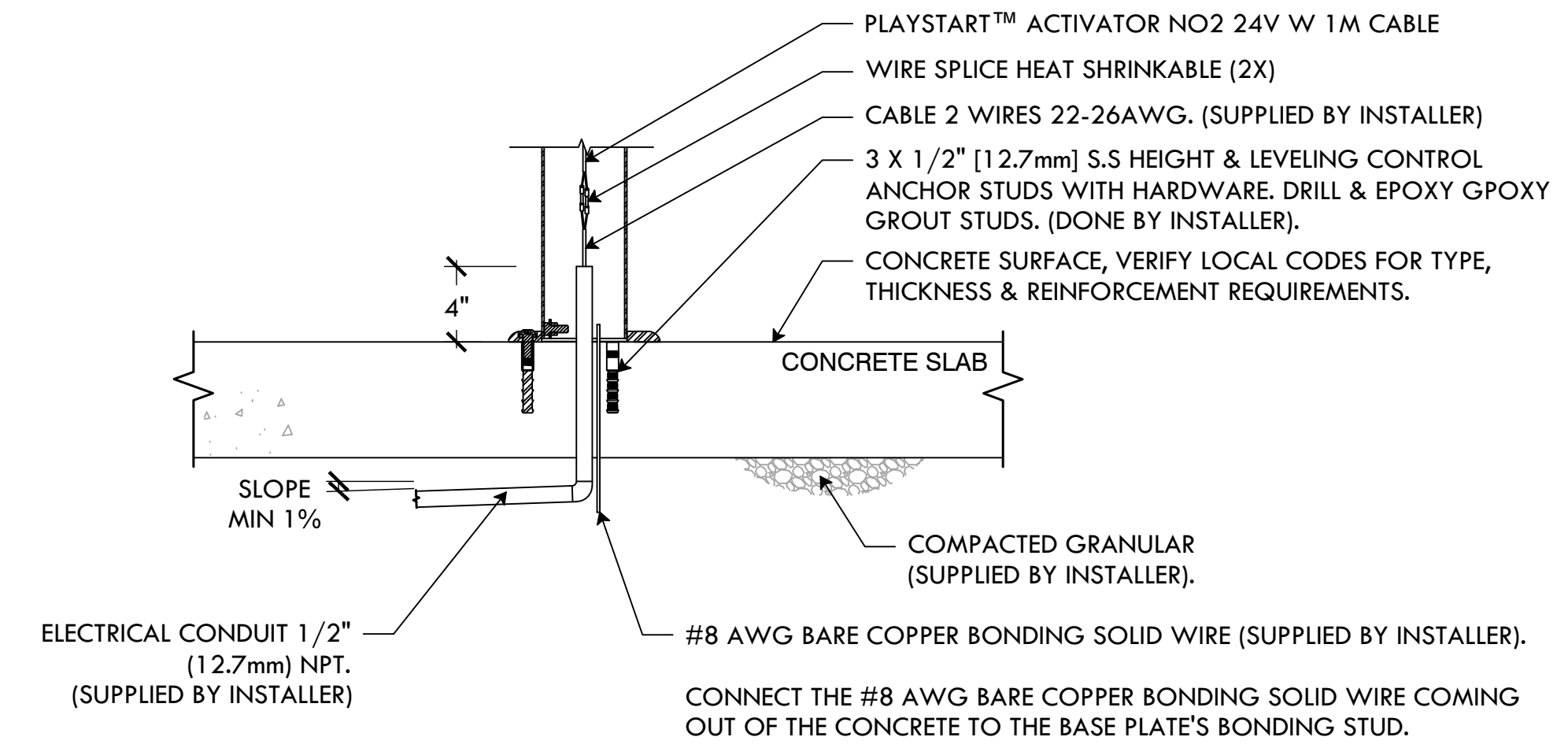
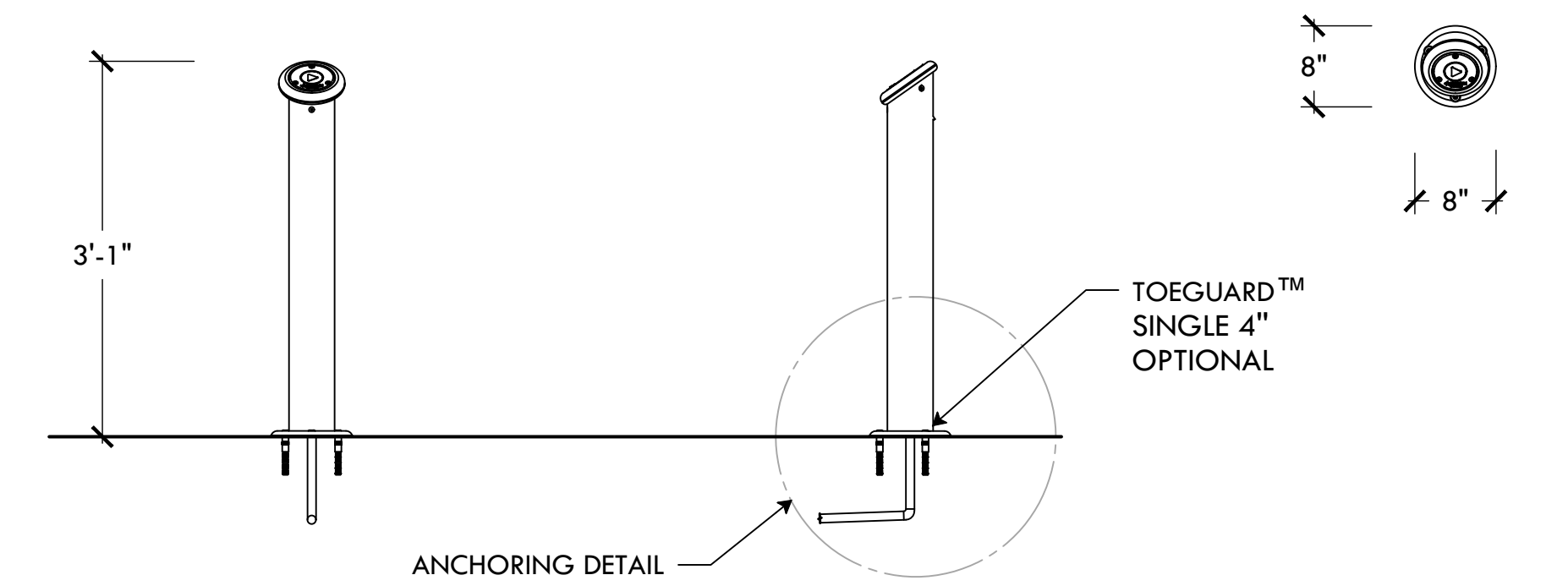


REPLACE CONNECTOR BY BSP ADAPTER (S-MBSP) FOR PROJECTS USING "BRITISH STANDARD PIPE" NORM (SUPPLIED BY VORTEX)

FRONT ELEVATION VIEW

SIDE ELEVATION VIEW

PLAN VIEW

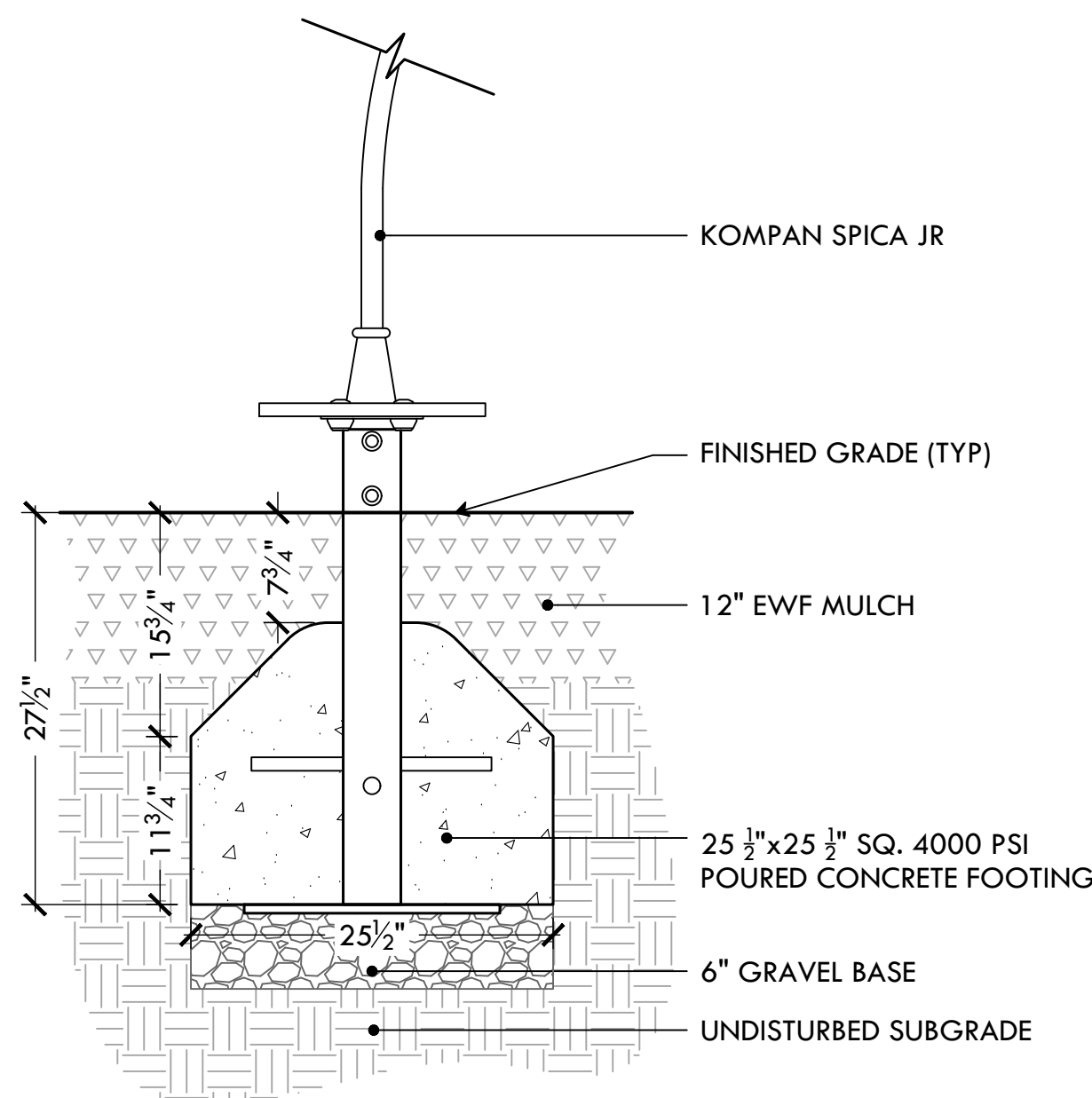


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- 2) ANCHOR FOR CONCRETE INSTALLATION INSTRUCTIONS:
 - DRILL $\frac{5}{8}$ " (15.875mm) HOLE, MIN. HOLE DEPTH $4\frac{3}{8}$ " (104.8mm).
 - CLEAN THE HOLE.
 - FILL EPOXY ADHESIVE INTO HOLE TO APPROXIMATELY $\frac{3}{4}$ TO HALF FULL.
 - INSERT ANCHOR INTO HOLE.
 - ALLOW EPOXY TO CURE PRIOR TO APPLYING MAXIMUM LOAD.
- 3) CONNECT THE ACTIVATOR CABLE TO THE CABLE THAT CONNECTS TO THE ELECTRICAL BOX (CABLE SUPPLIED BY INSTALLER), USING WIRE SPLICE HEAT SHRINKABLE.
 - CRIMP WIRE SPLICE.
 - HEAT WIRE SPLICE (MAKE SURE NOT TO HEAT WIRE TO AVOID DAMAGING THEM)

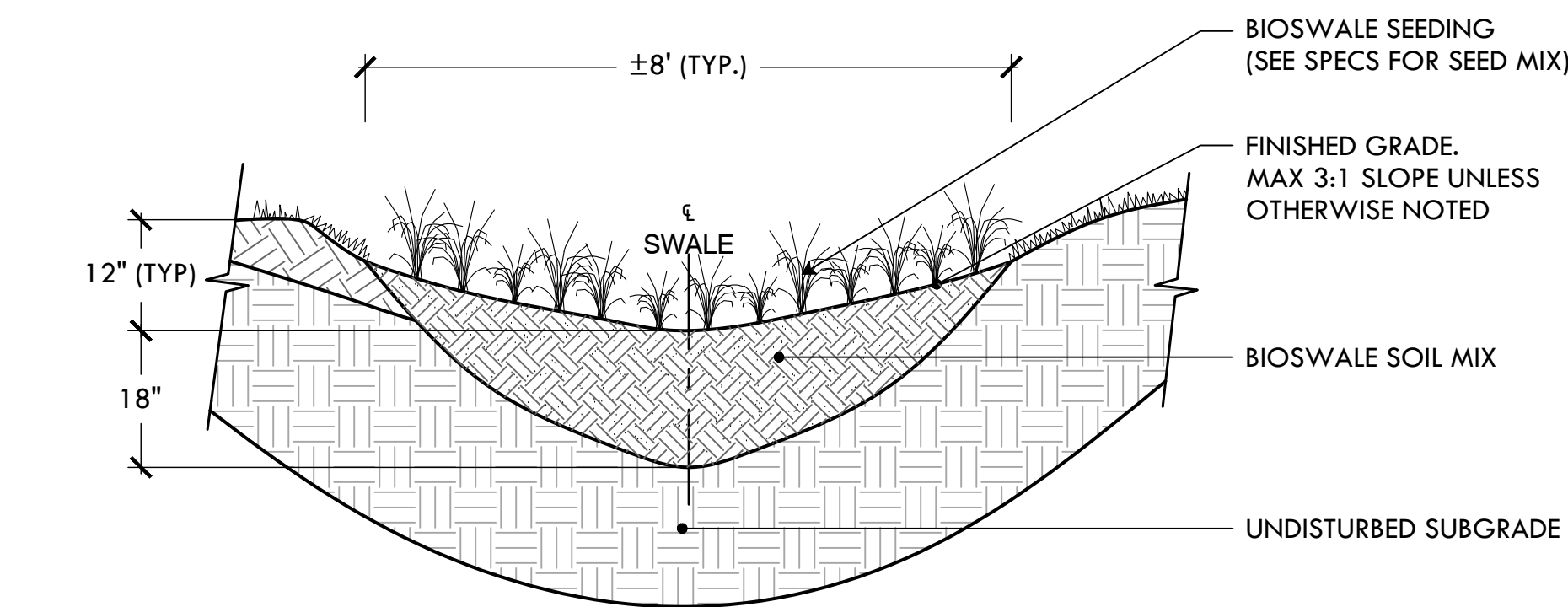
30 VORTEX 3055 - SPRAYLINK TUNNEL NO. 2

NTS



32 KOMPAN SPICA JR SPINNER

NTS



NOTE:

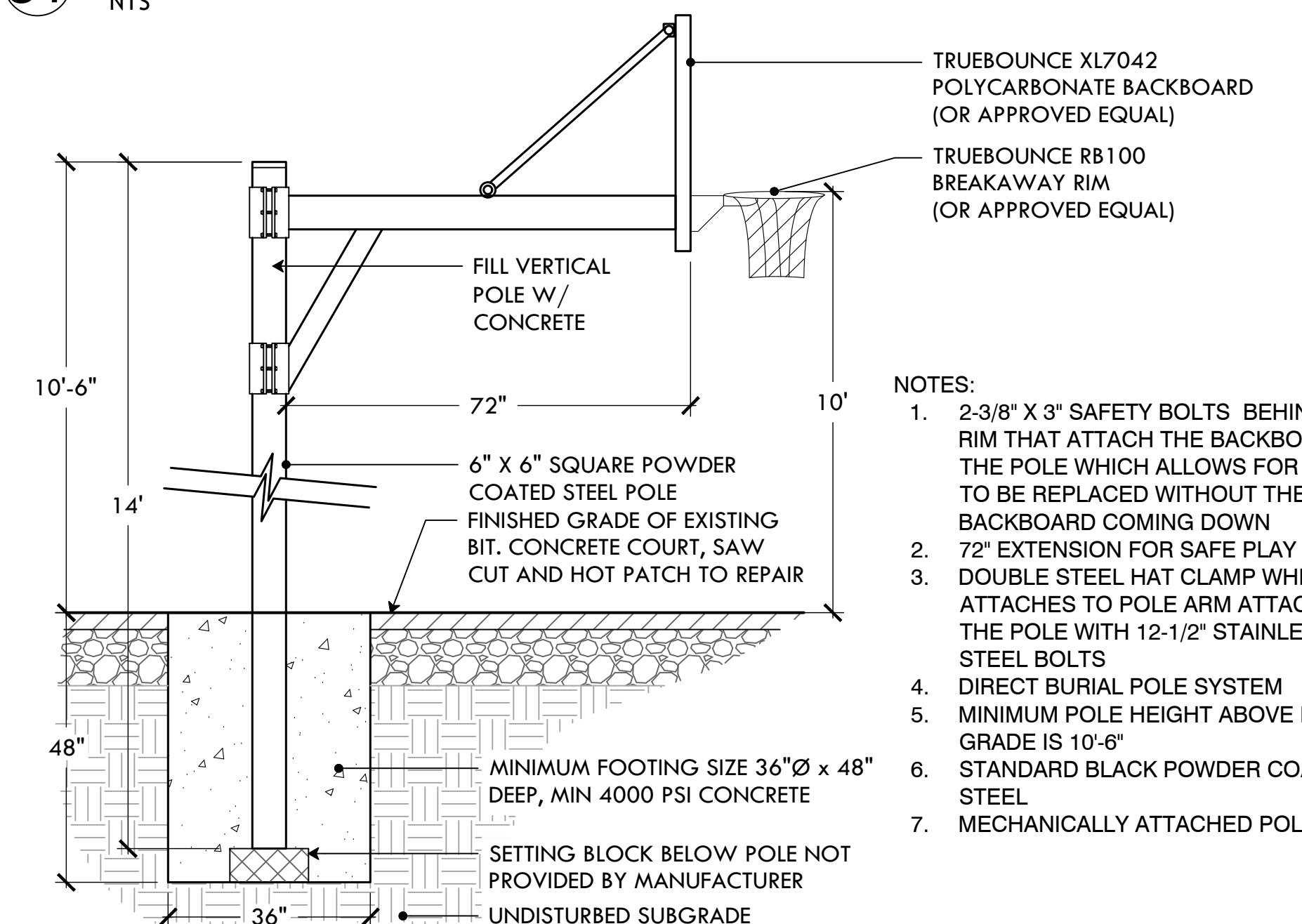
1. BIOSWALE SOIL MIX TO CONSIST OF 65% LOAMY SAND BLENDED WITH 35% SCREENED, HIGH QUALITY COMPOST.

33 BIOSWALE

NTS

31 VORTEX 0622 - ACTIVATOR NO. 4

NTS



34 BASKETBALL POLE, BACKBOARD, AND RIM

NTS



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PROJECT:

Site Improvements at James Ahern Park

1 Wallace St
Providence, RI

REVISIONS:

Date	Issued For:
1 10/31/24	Addendum 2
2 11/8/24	Addendum 3

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 10/21/24
PROJECT NO: JAPK.24.01
DRAWN BY: SH, II
CHECKED BY: MG

SHEET TITLE

Details

L-11

11 OF 14

FILE: JAPK24-PLANS-Addendum 3.dwg



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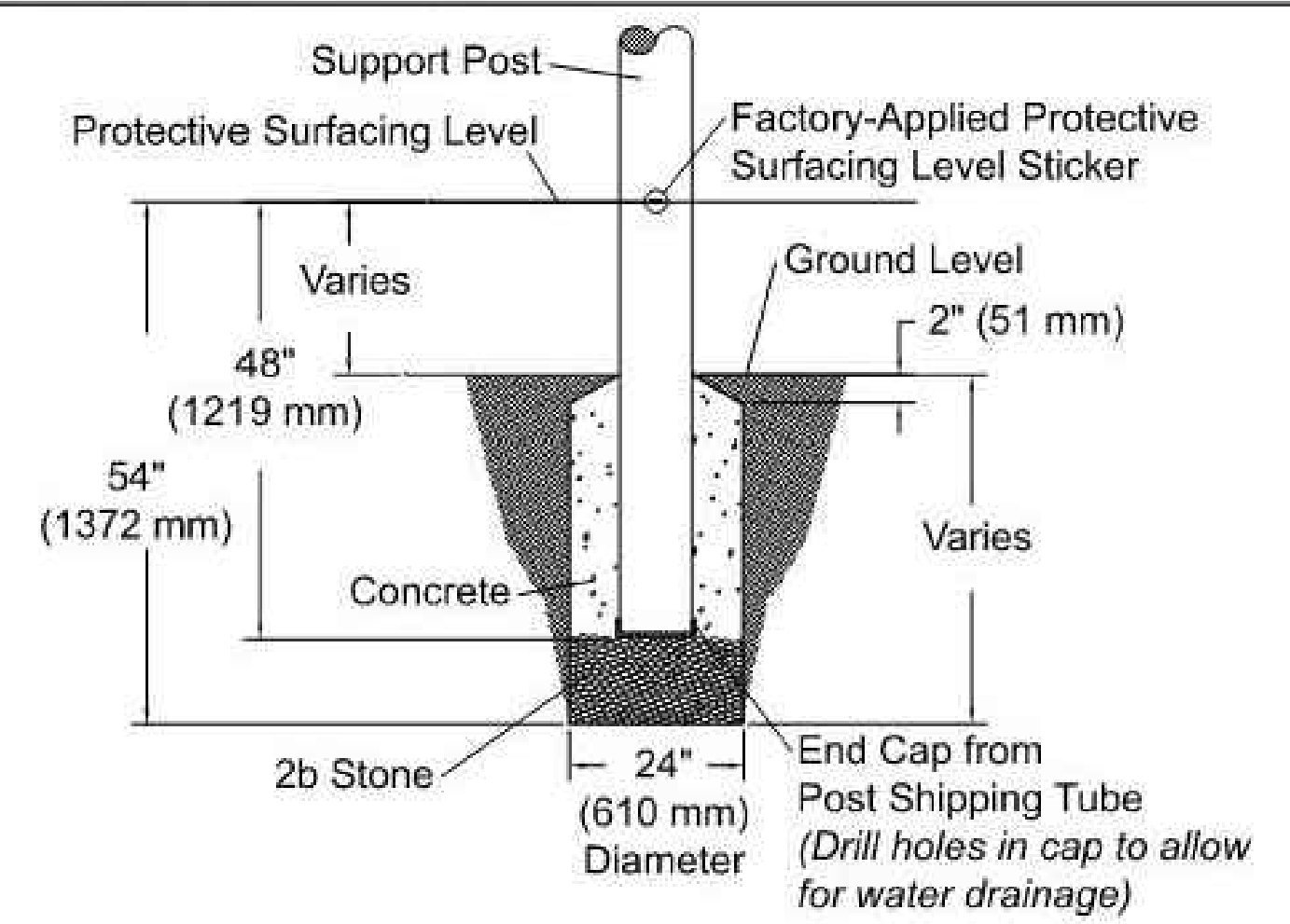
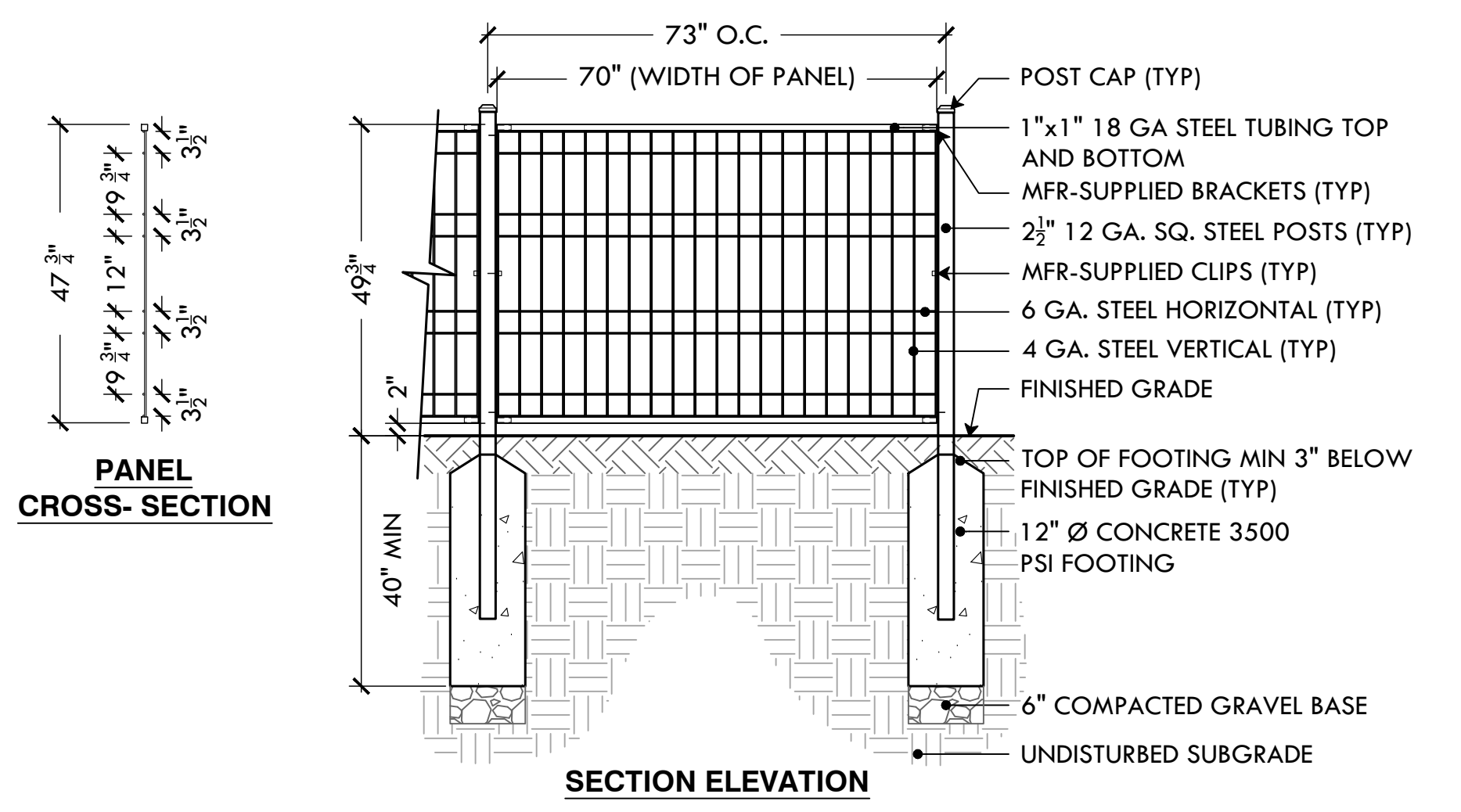
DATE ISSUED: 10/21/24
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L-12
12 OF 14

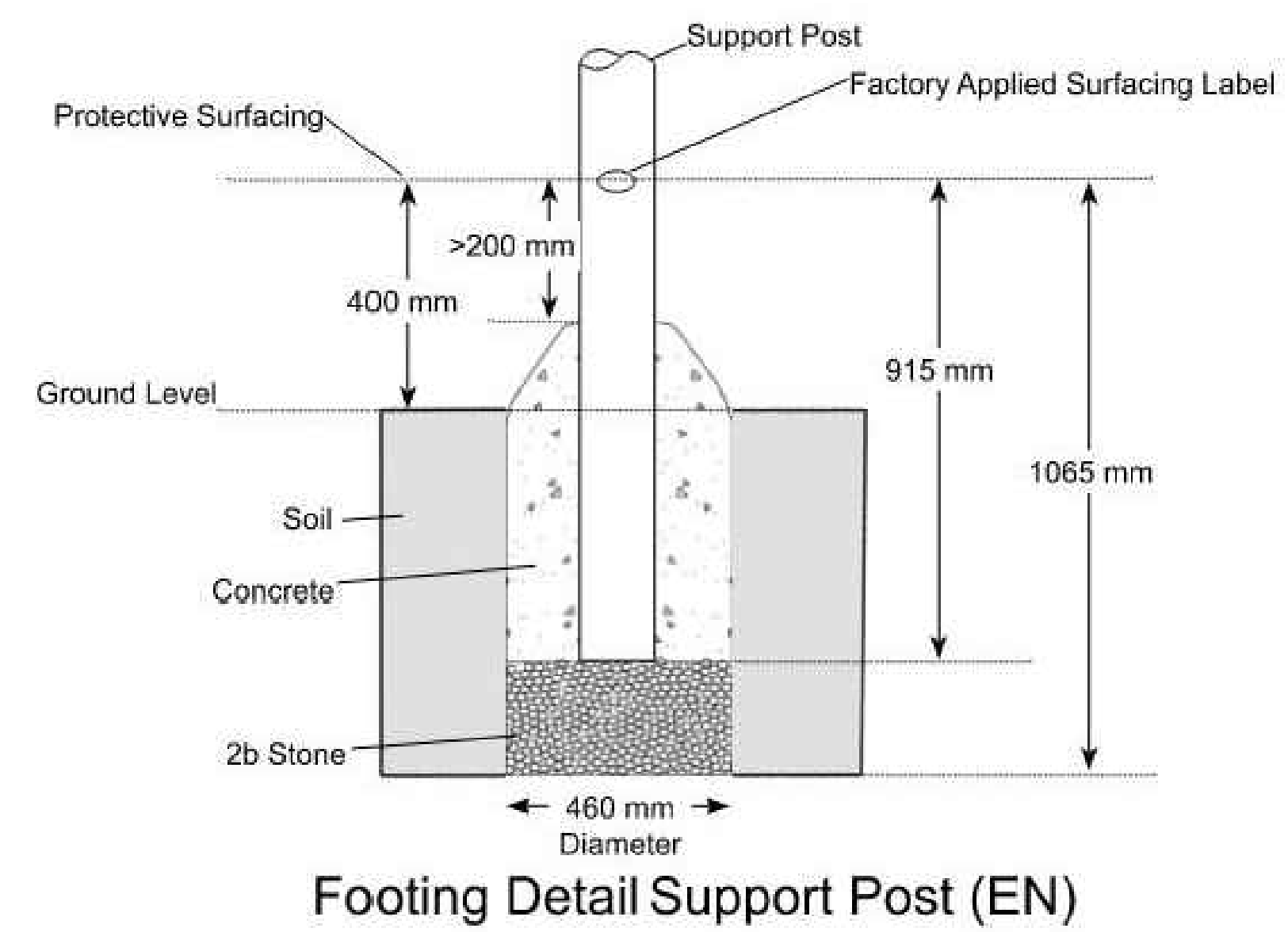
Installation Instructions



Support Post Footing Detail ASTM/CSA

FOOTING NOTES

- Support post footing depth equals 54 in. (1372 mm) less the depth of the protective surfacing material. The post is designed to have 36" (914 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 42 in. (1067 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
- If local soil is loose or unstable, a larger footing may be required.
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

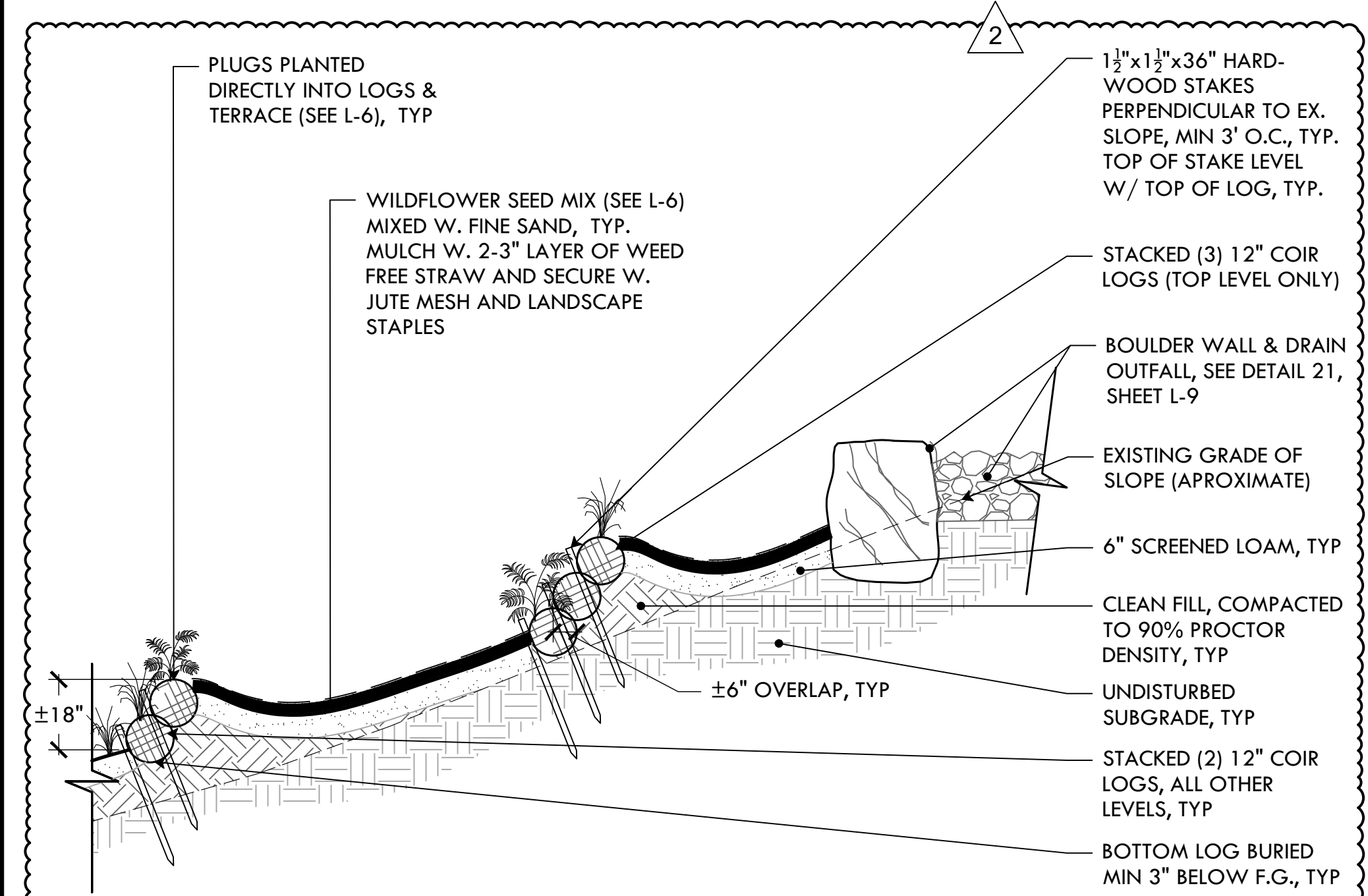


Footing Detail Support Post (EN)

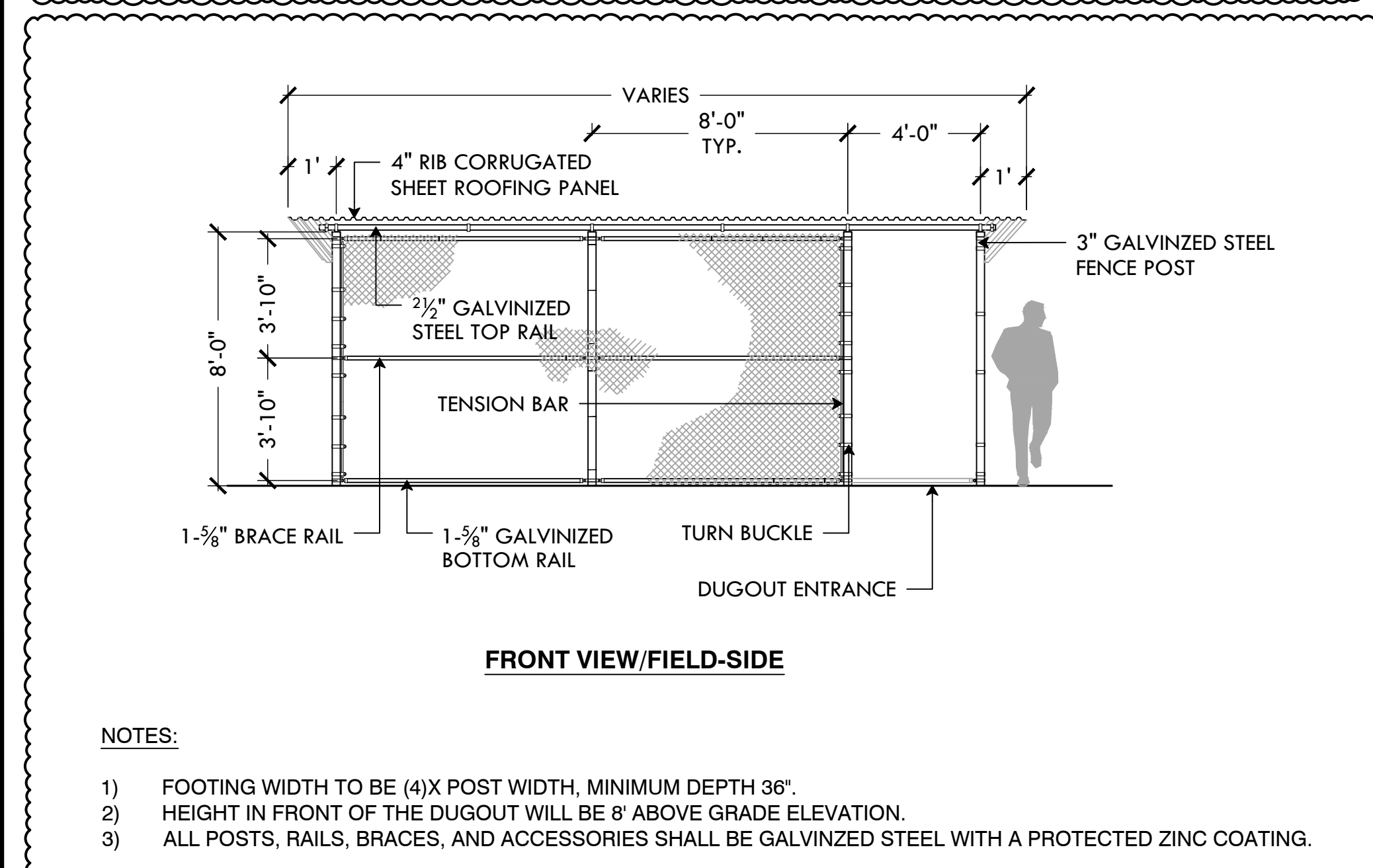
Page 8 of 12

Model ZZXX0151
PA1478
SGS

35 ADD ALT #4, #5: 4' WELDED WIRE MESH FENCE
NTS

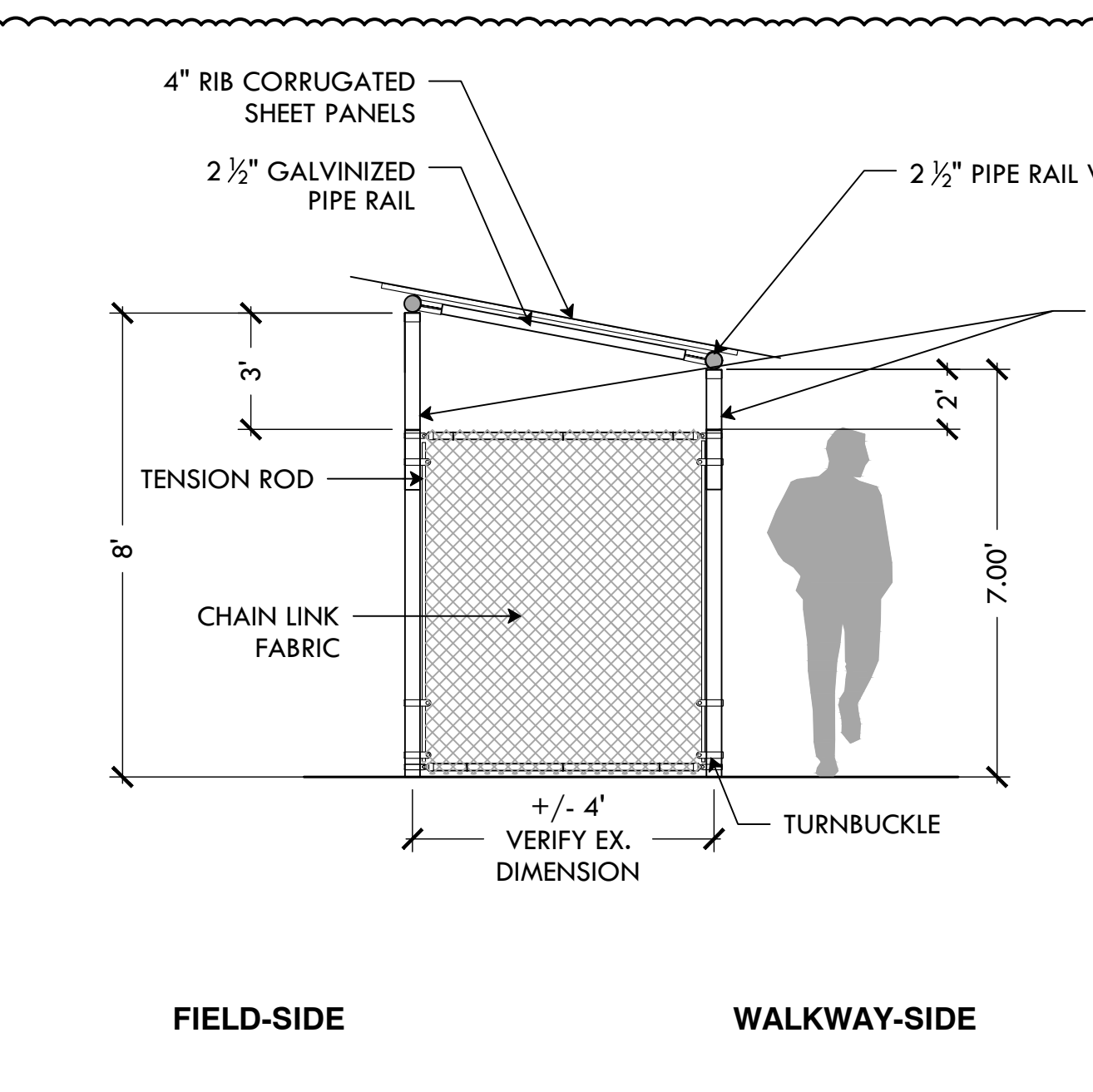


36 ADD ALT #6: STORMWATER ATTENUATION TERRACE
NTS

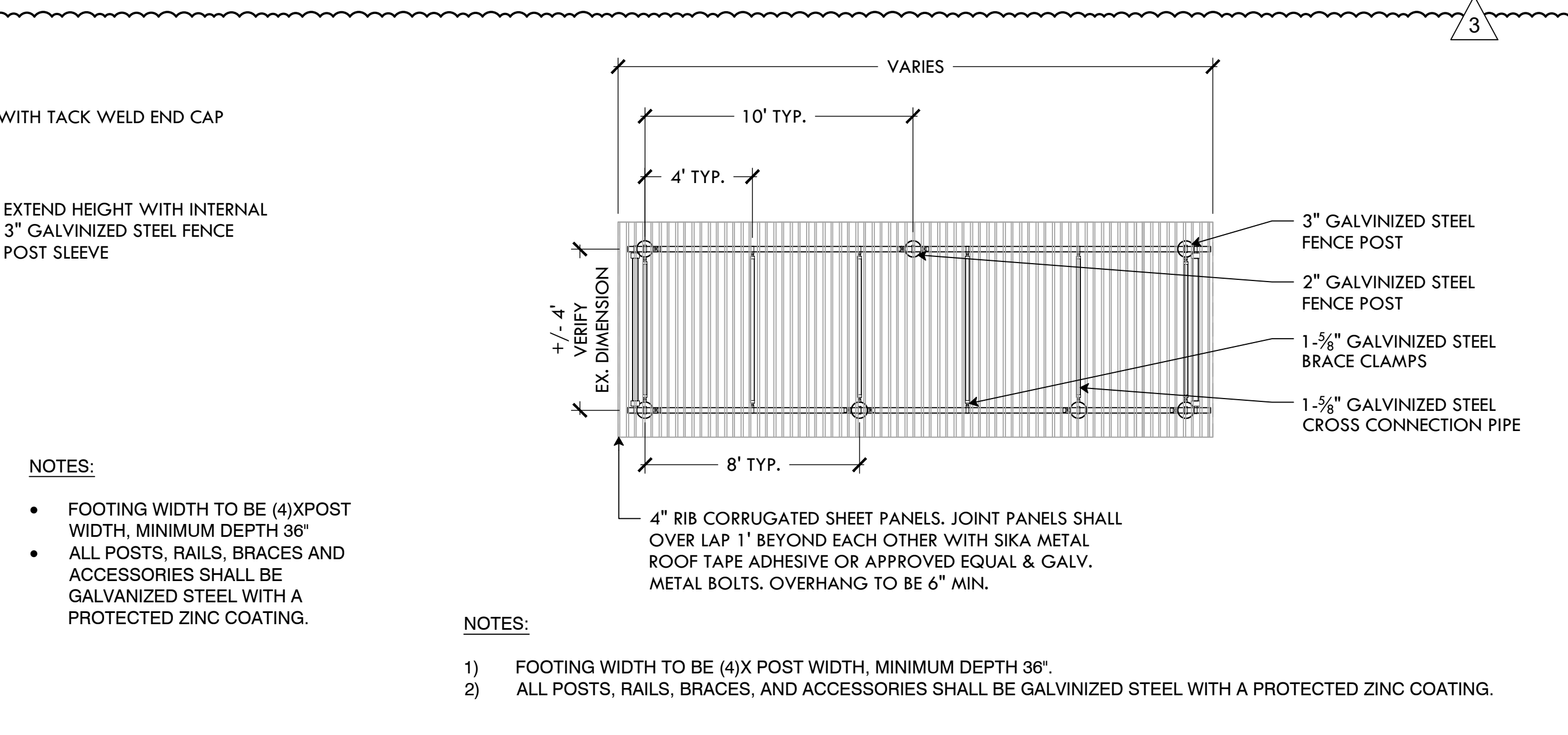


38 ADD ALT #13: CORRUGATED DUGOUT ROOF: FRONT
NTS

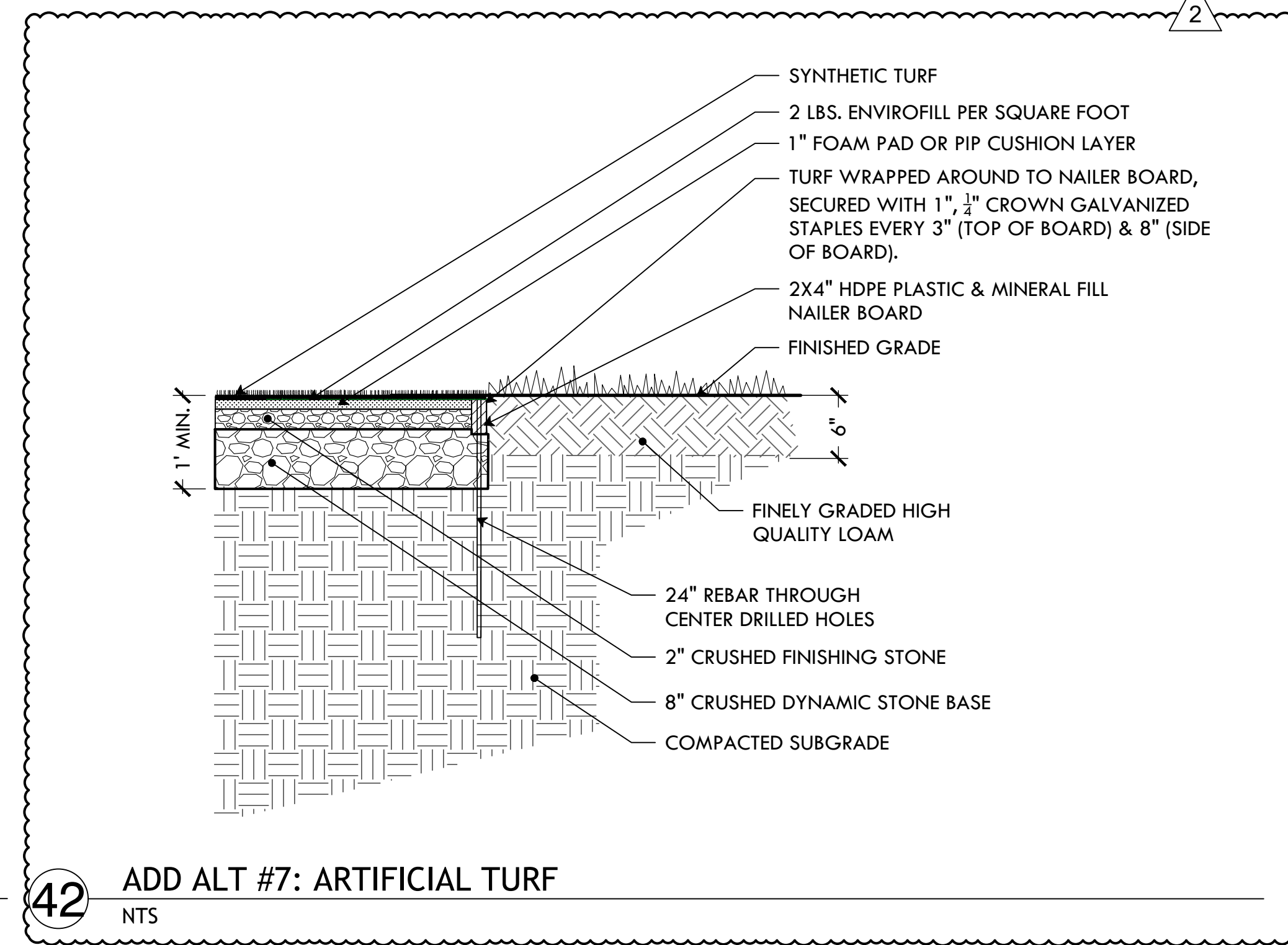
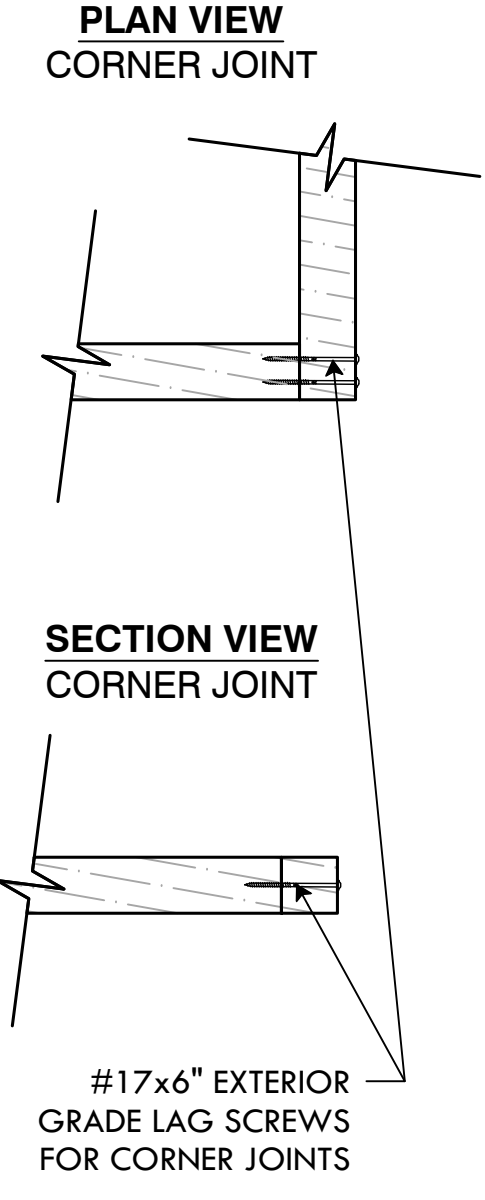
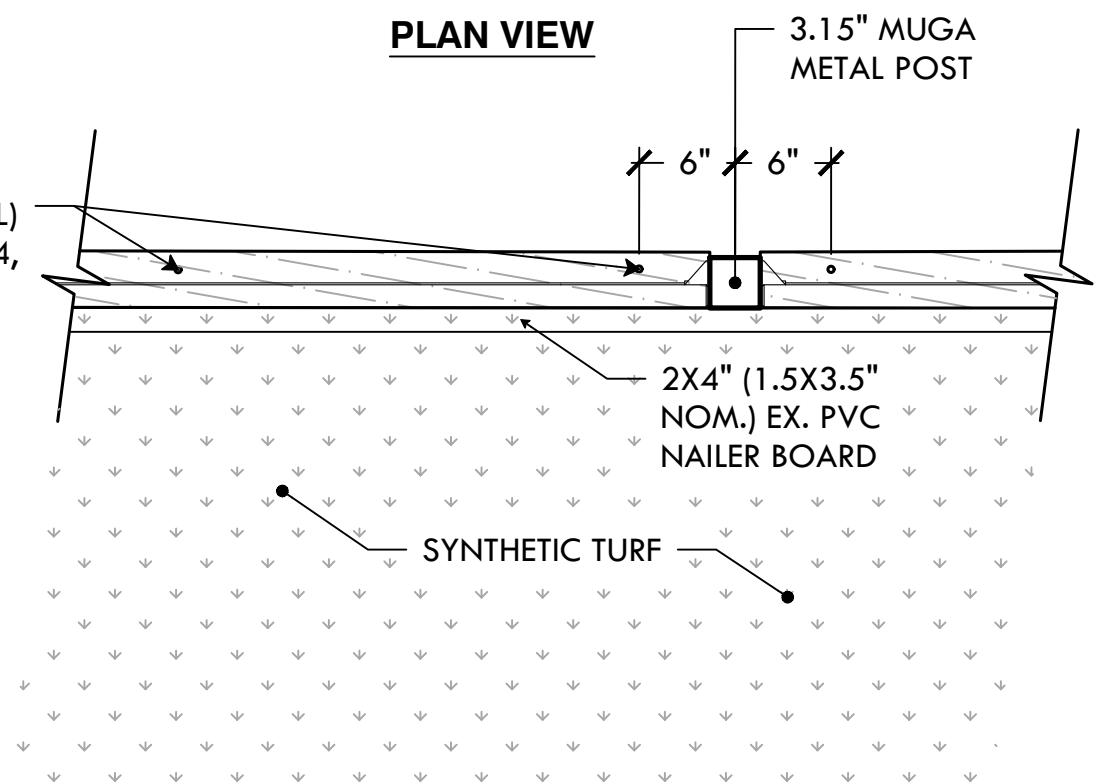
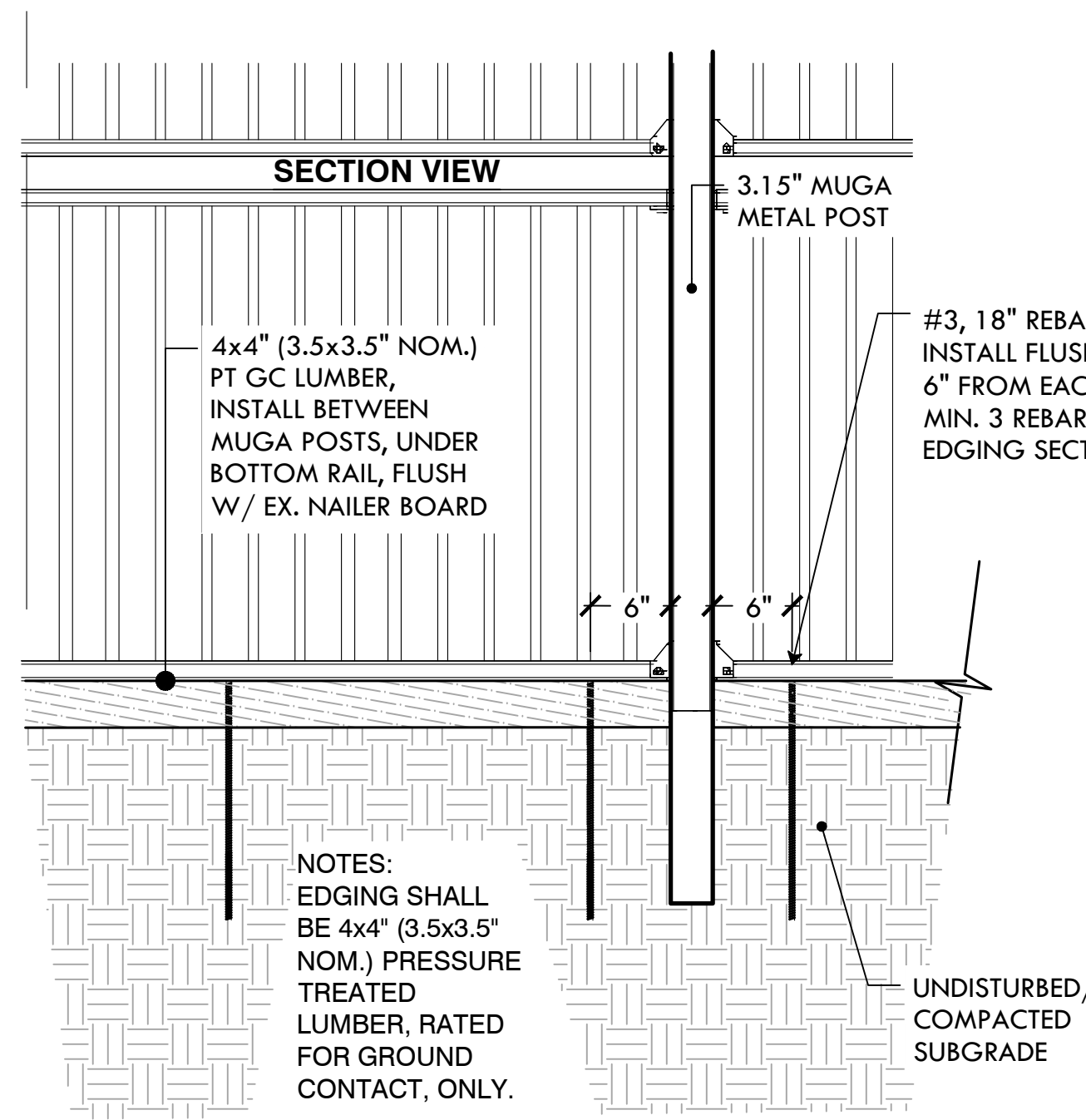
37 ADD ALT #3: PLAYWORLD SPINAMI SPINNER
NTS



39 ADD ALT #13: CORRUGATED DUGOUT ROOF: SIDE
NTS

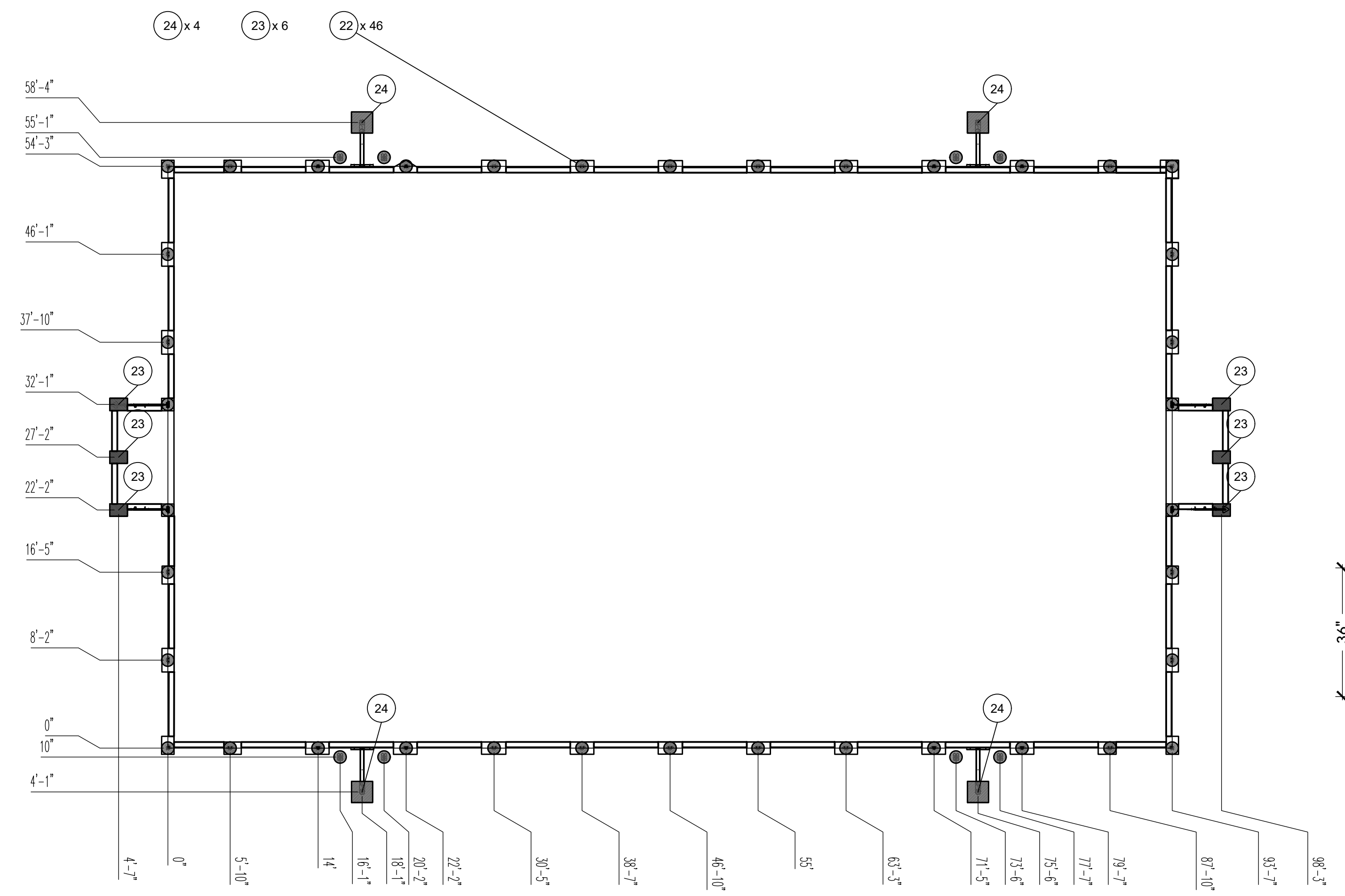


40 ADD ALT #13: CORRUGATED DUGOUT ROOF: TOP
NTS



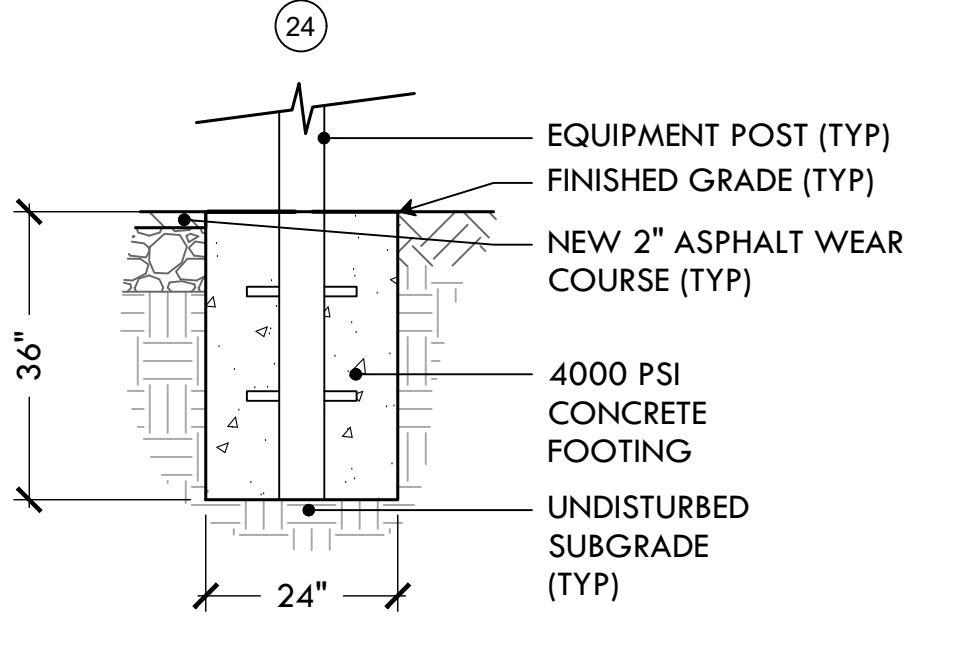
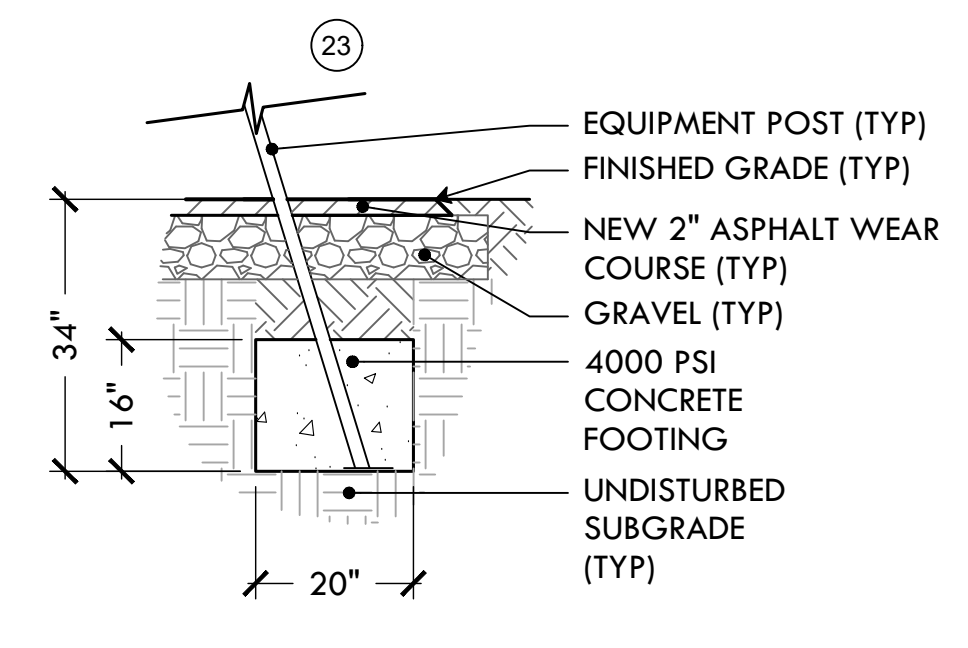
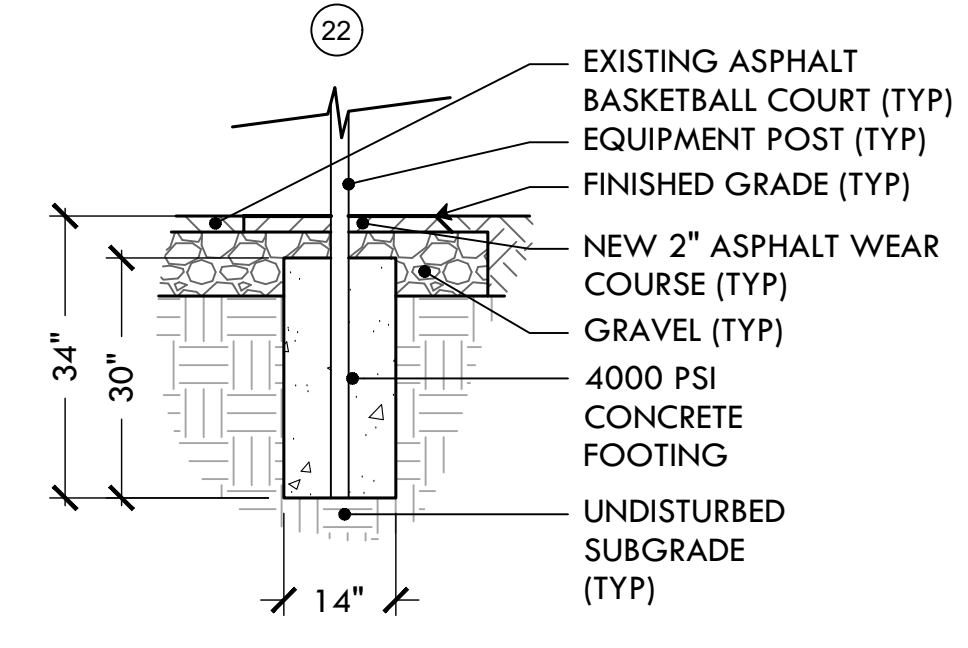
41 ADD ALT #7: 4\"/>

42 ADD ALT #7: ARTIFICIAL TURF
NTS



FOOTING LAYOUT PLAN

43 ADD ALT #7: MULTI-USE GAME AREA
NTS



CONCRETE POST FOOTINGS



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SECTION 116800.10 - SPLASHPAD PLAY EQUIPMENT

PART 1 - GENERAL

1.1 PRODUCT CONSTRUCTION

- A. The aquatic play products shall be suitable for installation in municipal and commercial aquatic facilities and public play areas.
- B. Products shall be specifically designed for the use by children and adults and follow the ASTM F2461-09 norm. In addition, products shall be manufactured by a company that has at least five (5) years of experience in the design and engineering of children's aquatic play areas.
- C. Any aquatic play product belonging to a new product line or series should demonstrate meeting the effective norm or show the conformity and resistance of the prescribed materials if it is proposed equivalency. The contractor or manufacturer must demonstrate meeting specifications by providing technical documents and drawings to be included in their bid proposal.
- D. Play Products: All aquatic play products installed above and below grade shall be manufactured from 304/304L stainless steel. The anchoring system and associated fastening hardware shall be manufactured from 304/304L stainless steel. Rigid centricast fiber reinforced (FRP) and/or molded fiberglass, PVC, filament wound tubing, Galvanized Steel, or Aluminum shall not be utilized for any above or below grade play product structures.
- E. Mounting and Assembly Hardware: All hardware and anchoring systems shall be 304/304L stainless steel. All Play Products and Ground Spay systems shall include an integrated anchoring and leveling system facilitating installation and a flush surface finish. Exposed and accessible hardware shall be tamper resistant, requiring a special tool for removal to deter vandalism and theft.
- F. Spray nozzles, caps and heads: Shall be manufactured from C360 brass and shall use tamper resistant tools for installation and removal. PVC, Nylon, and Delrin™, shall not be utilized. All grade level play products are to be furnished with appropriate winterization caps.
- G. Polished Finish: All stainless steel above ground features shall have a high-luster polished finish.
- H. Material for Paneling, Signage, Water Deflection, and Toe Guards: All Polyethylene, Polyurethane, Elastomers, and Seeflow Polymers used for paneling, signage or water deflection shall be resistant to chlorinated water and be ultraviolet stabilized to inhibit sunlight fading.
- I. Safety & Craftsmanship: All accessible edges shall be machined to a rounded finish. All welds shall be watertight, buffed smooth, or polished to a non-visible finish and factory pressure tested. Accessible nozzles and spray heads shall be recessed to ensure a completely safe play environment with no pinch points, head entrapments or protrusion hazards. All products shall be



designed in accordance with ASTM F1487, ASTM F-2461 and CSA Z614-98 regulations for public playgrounds.

1.2 PRODUCTS

A. Vortex Water Play Structures

1. Leaf N°2, Model # VOR 7657
2. Activator N°4, Model # VOR 0622
3. Spraylink Tunnel N°2, Model # VOR 3055
4. Spraylink Geyser, Model # VOR 3005
5. Spraylink Jet N°1, Model # VOR 3000
6. Helio N°3, Model # VOR 7238
7. Flower N°5, Model # 7557
8. Hop Starfish, Model # VOR 7254
9. Refresh N°1, Model # VOR 8767
10. Spraylink Fountain, Model # VOR 3007

B. Vortex Splash Pad Accessories:

1. Activator No4, Model # VOR 0622
2. Water Distribution System WCC 2.0 Wall-Mounted Command Center
3. MaestroPRO Controller 24 out/ 12 in, Model # VOR-33907.3200
4. MaestroPRO Power Box, Model # VOR-33907.3200
5. 2" Pressure Regulator
6. 2" Backflow Preventer
7. 1" Solenoid Valve with Ball Valve & Union

1.3 PLAY PRODUCT INSTALLATION

- A. When applicable, templates shall be supplied to facilitate the installation of embedded anchoring equipment.
- B. All play products shall have electrical grounding studs incorporated into their associated anchoring equipment. All play products shall be grounded by the installer per local codes.
- C. All installation conduit wiring including electrical supply panel, PVC connections, piping, elbows, tees, play product assembly if required and other items relating to the installation shall be supplied by the general contractor.
- D. Drawings and Instructions: Product drawings and installation manuals shall be supplied by the manufacturer for ease of installation.



1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. All aquatic play products and associated equipment must be properly wrapped and secured in place while in transport to the project site. Care shall be observed during offloading and handling to prevent excessive stress and abrasions.
- B. At the site, the play products and associated equipment are to be stored in safe areas, out of the way of traffic and other construction activities, until the actual time of installation. If required, safety barricades or other like precautions must be taken for the protection of public and adjacent property.
- C. Protective wrapping on the aquatic play features must be left in place until construction work for the Splashpad is complete.

1.5 COMMISSIONING OF THE SPLASHPAD

- A. Upon completion of construction, the general contractor shall provide the owner/operator adequate training on facility operations and maintenance. The contractor may request that the equipment manufacturer and/or manufacturer's representative provide on-site start-up and training for the owner/operator.

1.6 SPLASHPAD QUALITY ASSURANCE

- A. Provide evidence of commitment of quality craftsmanship as demonstrated by the following manufacturer qualifications:
- B. The products shall be designed and produced at a facility owned and directly supervised by the supplier.
- C. All products shall be shipped from a single source.
- D. A full time licensed engineer must be on-staff
- E. A full time quality control manager must be on-staff

1.7 EQUIVALENCIES CLAUSES

- A. To enable all bids to be judged equitably, they shall be based on the specified products in this document and shown on the drawings.
- B. A. The proposal for any substitute products must be attached to the bid separately, identifying the substitute product by its trade name along with any savings it may represent for the client.



- C. B. Following the opening of the bid, only those substitutes proposed by the lowest bidder of the specified products, will be considered.
- D. C. All substitute approval requests shall be accompanied by manufacturing drawings, including spray zones, sequencing, plumbing and electrical schematics and complete salt spray resisting testing data produced by an independent laboratory for coatings and a written warranty from the manufacturer.
- E. No substitution or equivalency submitted will be considered if products to be considered are not part of manufacturer standard existing product line or a written proof that product has manufactured previously by the substitute manufacturer. Please refer to General Clauses 1.1
- F. D. Each substitute sample must be presented to the owner/consultant within seven days following the opening of bids. The sample must be completely operational. After this time period, the bidder will be required to supply the original specified product.
- G. E. The owner/consultant reserves the right to grant or deny approval for proposed substitutions without prejudice to his rights and his decision shall be final. The above conditions apply to this section independently of any other clauses on the subject found in this document.
- H. F. If applicable the products must be interchangeable and of equivalent quality to the materials already installed.

1.8 SPLASHPAD EQUIPMENT WARRANTIES

- A. Minimum Warranty periods
- B. Splashpad Play Events/Products & Skid Mounted Water Quality Management System Equipment
- C. A 25 Year Warranty on stainless steel Play Events/Products, stainless steel anchoring systems and aluminum spheres.
- D. A 10 Year Warranty on the reinforced fiberglass skid, sand filter fiberglass tank and cartridge filter fiberglass tank.
- E. A 5 Year Warranty on brass components including; spray nozzles, spray caps and spray heads. High-density polyethylene components, polyurethane components, and ultra high molecular weight polyethylene components. The Subterranean vault (enclosure and access hatches), stainless steel automated water distribution manifold, drain boxes, strainers, electrical enclosures, and chemical controllers.
- F. A 2 Year Warranty on color coatings, stainless steel hardware & moving parts, fiberglass products, Seeflow Polymers, Soft Touch Elastomers (Toe Guards), subterranean water containments system, circulation pumps, chemical injection pumps, chlorinator systems, acid feed systems, polyvinyl chloride (PVC); piping, fittings, ball valves, check valves, cartridge



elements, pressure gauges, chemical sensing probes, motor starters, electrical relays, terminal blocks, actuated valves, programmable logic controller (PLC controller), time switches, manual switches, transformers, breakers, electrical wiring and connections.

- G. All warranties are to be managed by the equipment supplier.

PART 2 - SYSTEMS

2.1 Vortex SMARTFLOW™ COMMAND CENTER WALL MOUNT

A. WALL MOUNTED COMMAND CENTER

1. The Wall-Mounted Manifold Command Center shall be a pre-fabricated water distribution system containing piping, valves and electrical wiring. They shall be factory assembled, water pressure tested, and shall be delivered from the Splashpad equipment manufacturers facilities. They shall be equipped with slip-on connections for the water inlet and slip-on for water outlets. The solenoid valves shall be pre-wired to the controller or to a junction box (when the controller is placed in a remote location). The installer shall provide the plumbing equipment required from the water source to the water inlet or backflow device and Pressure regulator if so configured.
2. The installer shall provide the plumbing equipment required from the water outlets to the Splashpad Play Products, as well as adequate drainage ball valves at the low point of each of the Play Product's water distribution lines (if applicable). Should the controller be located remotely, Vortex shall supply 10 feet of wire on the controller and 10 feet of wire on the junction box; if more than 20 feet of wire is required, the installer shall supply the rest of the electrical equipment. The grounding of the junction box shall be done by the installer.

B. GENERAL MATERIALS SPECIFICATIONS

1. Manifold shall be constructed of 3 ½" outside diameter Stainless Steel 304/304L pipes powder coat painted finish with no sharp edges and buffed welding. Each water distribution port shall be an NPT connection of 1-1/2" or 1" depending on the selection. The manifold shall be equipped with a pressure gauge. All welded joints shall be watertight and pressure rated to 150 psi.
2. Piping and fitting shall be constructed of SCH 40 PVC, 150 PSI pressure rated
3. Solenoids valves (different possible combinations of sizes) shall be constructed of PVC or Brass with or without ball valve, all with water resistant solenoid, all rated up to 150 PSI. There shall be one (1) solenoid valve installed on each of the water distribution ports for the Play Products. They shall be a normally closed 24 VAC 50/60 cycle solenoid actuated globe/angle pattern design. The valve body and bonnet shall be constructed of PVC with stainless steel fasteners. The valve shall have a manual override capability (manual open/close control). It shall house a fully encapsulated, one-piece solenoid. Each Solenoid



valve shall have in integrated flow control adjustment valve stem for fine tuning of spray effects.

4. Gate valves (different possible combinations of sizes) shall be constructed of brass rated up to 150 PSI
5. Inlets (different possible combinations of sizes) shall be constructed of PVC or PVC and Brass unions, all rated up to 150 PSI
6. Electrical Enclosures, Conduit, Wiring and Connections: All electrical wiring shall be # 18 AWG with a 600V rating. All electrical connections, enclosures, and conduit shall be Nema 4x watertight.
7. Controllers: see controllers specification sheet for detailed information

C. INSTALLATION CHARACTERISTICS

1. Electrical Connections: All main power electrical connections to the Splashpad Controller are to be performed per local codes
2. Drawings and Instructions: Product drawings and installation manuals shall be supplied by the manufacturer for ease of installation.

2.2 Vortex MaestroPRO™

A. GENERAL MATERIALS SPECIFICATIONS

1. Equipment Enclosures: Shall be made from corrosion resistant hot compression moulded fiberglass reinforced polyester which does not contain halogens. Enclosures shall be UL listed per UL Standard 508A, NEMA 4X; CSA Certified per Standard C22.2-0, 0.4, 0.7, 0.6, 94 Type 3, 3R, 4, 4X, 12 and 13.
2. Operating temperature: MaestroPRO™ shall be operating in an ambient temperature range of 32°F (0°C) to 131°F (55°C).

B. MAESTROPRO™ CONTROLLER MAIN – 33907.12B2

1. The MaestroPRO™ control panel shall be made from corrosion resistant hot compression moulded fiberglass reinforced polyester which does not contain halogen
2. The MaestroPRO™ control panel is a Water Playground Controller cULus and FCC Certified and Marked product. MaestroPRO™ Controller is designed in a compliance to the CE Standards requirements.
3. The MaestroPRO™ control panel shall be supplied with a 10.4” touch screen user interface with controls for each output, activation device(s), and operation hours. These selector settings allow the user to select the operational mode of the components (i.e. Manual, Off and Automatic).
4. The MaestroPRO™ control panel shall be supplied by power through a MaestroPRO™ Power Box : providing power through two 100VA transformers 120 VAC primary / 24 VAC secondary OR 240 VAC primary / 24 VAC secondary, depending on MaestroPRO™ Power Box associated, with built- in electrostatic shield protection, and by a power supply 120/240 VAC primary to 24 VDC secondary and 100 VA.



5. The MaestroPRO™ control panel shall integrate 24 digital outputs with 24 VAC (per output : max 1.6 Amp inrush, max 0.3 Amp nominal) and 12 digital inputs with selectable 5 or 24 VDC (1A max over all inputs).
6. The MaestroPRO™ control panel shall surge at any time a maximum of 4 Amp over each of its two“12 digital outputs” sets.
7. The MaestroPRO™ control panel shall have the capacity to receive digital signals from activation devices or sensors, operating on 5 or 24VDC. (Activator, Rain Sensor,...)
8. The MaestroPRO™ control panel shall have the ability to provide a 24VAC auxiliary signal. This signal can be used to trigger a relay for Pumps, Chemical, UV system, or any other item following electrical specification. All outputs are electrically protected against over consumption with resettable fuses.
9. The MaestroPRO™ control panel shall have the capacity to operate a Rain Diverter Valve with a 24V AC max 1.6 Amp signal to prevent rain water to go into the sewer network when the Splashpad® is not in function. That requires 2 outputs from MaestroPRO™ control panel.
10. The MaestroPRO™ main control panel shall have the ability to control Fast Acting Valves supplied by 24 VAC max 1.6 Amp inrush each.
11. MaestroPRO™ control panel shall have the capacity to receive pulse signal from items compatible with 24 VDC (Paddle wheel water meter, Anemometer,..).
12. The MaestroPRO™ control panel shall have capability to be interconnected with any MaestroPRO™ Expansion (33907.22B2) using a dedicated RJ45 connector (located on I/O board).
13. The MaestroPRO™ control panel shall have capability to be interconnected with max 1 Ethernet based item like the Maestro Light Controller (33908.0xxx) by using an Ethernet RJ45 Cat5 cable. If more than 1 Ethernet based items need to be connected, an Ethernet switch junction box (44900.0011) must be used
14. MaestroPRO™ control panel shall have removable terminal blocks for easy wiring
15. The MaestroPRO™ firmware shall be factory programmed with spray and light sequences designed according to the requirements of the project. Users shall have the flexibility to modify sequence duration specifically to each operation schedule directly through the interface. New sequences (created by Vortex) shall be added into the program using either a transportable USB Key or with an internet connection. A 24hr/7day user programmable Agenda, which shall allow the user to set the operational hours of the facility. Sequence quantity is not limited. For any further details about user interface, please refer to the MaestroPRO™ Manual provided by Vortex.
16. Operation schedule shall be set by week day or by specific date (month and day number). For both cases, schedule is set by hours in the day (start/end time). Operation schedule quantity is not limited, and all different schedules will be displayed in a paginated style.
17. The MaestroPRO™ firmware operates in English, French and Spanish
18. The MaestroPRO™ firmware shall have the ability to soft start ramp up the Splashpad® to minimize potential water hammer.
19. The MaestroPRO™ firmware shall have the ability to automatically purge all water lines based on the user selected time and duration (i.e. every day at 5 am). It shall also, be configured to purge all lines after a user defined period of inactivity (i.e. after 4 hours of inactivity).



20. The MaestroPRO™ firmware in the interface lets the user modify easily the water consumption while keeping the sequence capability
21. The MaestroPRO™ firmware shall have the ability to handle automatic Backwash process once connected to a multi positions valves

C. MAESTROPRO™ POWER BOX – 33907.13BX

1. The MaestroPRO™ Power Box shall be housed in a fiberglass corrosion resistant NEMA 4X rated enclosure.
2. Power consumption : Maximum power fully loaded forced manually is 200W. Power while in standard sequence in operation hours shall be approx. 100W, Power while in idle mode shall be approx. 10W – i.e. out of operation hours or without sequence running.
3. MaestroPRO™ control panel shall be protected by fuses sized according to voltage and transformer size
4. In case of emergency, pushing the Red Emergency Button will power down the associated controller.
5. The MaestroPRO™ Power Box shall be powered using whether a 120VAC 60Hz or 240VAC 50Hz power input with a maximum of 5Amps

D. REMOTE CONNECTION

1. If remote connection ability is required, the operating system shall be connected to internet
2. A hard connection to an existing network can be set. MaestroPRO™ control panel integrates a LAN port set by default as DHCP client with RJ45 physical connector
3. MaestroPRO™ control panel shall include a built-in LTE/4G cellular module. In order to connect to internet, a NANO-SIM card previously activated by carrier must be inserted into the control panel on the Main board

PART 3 - EXECUTION

3.1 EXECUTION

- A. Should the bidder wish to substitute products other than the products specified herein, the bidder shall list products and submit a written Substitution Form of Proposal at least 10 calendar days prior to the date of receipt of bids. The bidder shall submit specifications, cut sheets, and performance data, along with an itemization listing each and every deviation from the specifications herein.
- B. The manufacturer shall furnish the purchaser with at least two sets of complete installation and operating manuals. The installation manual will illustrate the installation of the entire system. It shall describe the start-up procedure and day- to- day operation of the system.



3.2 PLAY PRODUCT INSTALLATION

- A. When applicable, templates shall be supplied to facilitate the installation of embedded anchoring equipment.
- B. All play products shall have electrical grounding studs incorporated into their associated anchoring equipment. All play products shall be grounded by the installer per local codes.
- C. Controller and/or LED power panels and/or any other electrical equipment must be hard-wired to a ground fault circuit interrupter (GFCI) from the input power source. All electrical work should be performed by a licenced electrician in accordance to local electrical construction and safety codes.
- D. All installation conduit wiring including electrical supply panel, PVC connections, piping, elbows, tees, play product assembly if required and other items relating to the installation shall be supplied by the general contractor.
- E. Drawings and Instructions: Product drawings and installation manuals shall be supplied by the manufacturer for ease of installation.

3.3 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. All aquatic play products and associated equipment must be properly wrapped and secured in place while in transport to the project site. Care shall be observed during offloading and handling to prevent excessive stress and abrasions.
- B. At the site, the play products and associated equipment are to be stored in safe areas, out of the way of traffic and other construction activities, until the actual time of installation. If required, safety barricades or other like precautions must be taken for the protection of public and adjacent property.
- C. Protective wrapping on the aquatic play features must be left in place until construction work for the Splashpad is complete.

3.4 COMMISSIONING OF THE SPLASHPAD

- A. Upon completion of construction, the general contractor shall provide the owner/operator adequate training on facility operations and maintenance. The contractor may request that the equipment manufacturer and/or manufacturer's representative provide on-site start-up and training for the owner/operator.

END OF SECTION 116800.10