



CITY OF PROVIDENCE, RHODE ISLAND

Department: Parks

RFP Title: Site Improvements at Cabral Park

Opening Date: 23 Mar 2026

Addendum #: 3

Issue Date: 3/2/2026

The purpose of this addendum is:

Revisions to Plans and Specifications and answers to vendor questions

Providence City Hall
25 Dorrance Street
Providence, RI 02903



WENDY NILSSON
Superintendent of Parks

BRETT P. SMILEY
Mayor

Addendum # 3

SITE IMPROVEMENTS AT CABRAL PARK

FEBRUARY 23, 2026

Total Pages Including Cover (66 Pages)

Acknowledge Addenda on Bid Form

**** BID DUE DATE MONDAY, MARCH 23, 2026 AT 2:15PM ****

Attachments:

1. Addendum Cover Sheet (1 Page)
2. REVISED PLAN SET (26 Pages)
3. Revised Specifications sections (19 Pages)
4. Revised supplemental bid form (20 Pages)

Questions/Clarifications:

- 1- **Q:** Is it possible for the Parks Dept to do a SK to show exactly what is required for the manifold installation for the splash pad IE- shut offs, blow off fittings ECT...
A: The pre-bid meeting will include a review of the existing conditions and proposed upgrades to the splashpad infrastructure and questions that arise will be addressed in the final addendum

- 2- **Q:** Can you provide the Vortex shop drawings showing the piping layout and the grounding grid layout
A: Vortex plans and details attached in revised plan set.

- 1- **Q:** Will parks Dept be removing the stumps as well from the trees that they are removing
- 2- **A:** Yes

LOCUS MAP NOT TO SCALE



SITE IMPROVEMENTS AT CABRAL PARK

HONORABLE
BRETT P. SMILEY
MAYOR

WENDY NILSSON
SUPERINTENDENT OF PARKS

JOHN GONCALVES
CITY COUNCILOR



PROVIDENCE PARKS DEPARTMENT
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



Providence Parks

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SHEET SCHEDULE

3

- L-1 COVER SHEET
- L-2 EXISTING SITE PLAN
- L-3.1 DEMOLITION PLAN (NORTH)
- L-3.2 DEMOLITION PLAN (SOUTH)
- L-4.1 GRADING & UTILITIES PLAN (NORTH)
- L-4.2 GRADING PLAN (SOUTH)
- L-5.1 MATERIALS PLAN (NORTH)
- L-5.2 MATERIALS PLAN (SOUTH)
- L-6.1 LAYOUT PLAN (NORTH)
- L-6.2 LAYOUT PLAN (SOUTH)
- L-7.1 PLANTING PLAN (NORTH)
- L-7.2 PLANTING PLAN (SOUTH)
- L-8 SPLASH PAD ENLARGEMENTS
- L-9.1 CONSTRUCTION DETAILS 1
- L-9.2 CONSTRUCTION DETAILS 2
- L-9.3 CONSTRUCTION DETAILS 3
- L-9.4 CONSTRUCTION DETAILS 4
- L-9.5 CONSTRUCTION DETAILS 5
- L-9.6 CONSTRUCTION DETAILS 6
- L-9.7 CONSTRUCTION DETAILS 7
- L-9.8 CONSTRUCTION DETAILS 8 - SPLASHPAD
- L-9.9 CONSTRUCTION DETAILS 9 - SPLASHPAD
- VORTEX PIPE PLAN COVER
- SPLASHPAD PLUMBING & ELECTRICAL LAYOUT
- SPLASHPAD BONDING LAYOUT

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 SWEEP AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEEP 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 OVERSEEDED, 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) AS NECESSARY. 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.

STAMP

PROJECT:

Site Improvements at Cabral Park

515 Wickenden Street
Providence, RI

REVISIONS:

#	Date	Issued For:
1	02/27/26	ADDENDUM #3
-	-	-
-	-	-

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 01/28/2026
PROJECT NO: CPPG.23.01
DRAWN BY: NC/SG
CHECKED BY: MG

SHEET TITLE

Cover Sheet

L-1



PROVIDENCE PARKS DEPARTMENT
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



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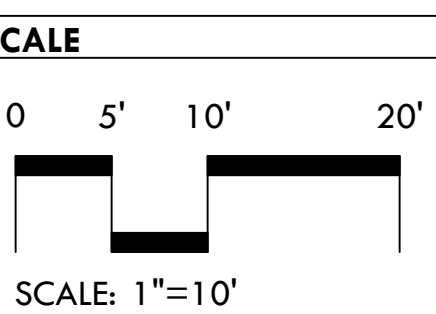
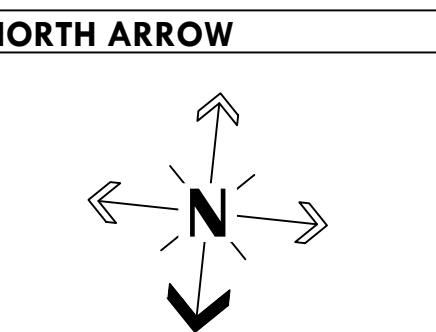
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PROJECT:
Site Improvements at Cabral Park
515 Wickenden Street
Providence, RI

REVISIONS:

#	Date	Issued For:
1	02/27/26	ADDENDUM #3
-	-	-



DRAWING INFO
DATE ISSUED: 01/28/2026
PROJECT NO: CPPG.23.01
DRAWN BY: NC/SG
CHECKED BY: MG
SHEET TITLE
Demolition Plan (North)

L-3.1

3 OF 23

DEMOLITION PLAN LEGEND

NOTE: PARKS DEPARTMENT PERSONNEL TO REMOVE FENCING, SITE FURNISHINGS AND PLAY EQUIPMENT PRIOR TO MOBILIZATION.

- LOW — LOW — LIMIT OF WORK
- ~~~~~ TREE PROTECTION FENCE BY OTHERS. CONTRACTOR RESPONSIBLE FOR MAINTENANCE
- /////// SAWCUT
- ⊗ ⊗ EXISTING TREE TO BE REMOVED BY OTHERS
- SS — SILT SOCK
- R&D REMOVE & DISPOSE
- R&S REMOVE & STOCKPILE
- [] LIMIT OF FENCE OR WALL REMOVAL
- [] R&D EX. ASPHALT & GRAVEL BASE
- [] R&D TURF & TOPSOIL TO 12" DEPTH
- [] R&D EX. CONCRETE & GRAVEL BASE
- [] AREA TO BE RE-GRADED; STRIP TURF, SCREEN & AMEND SOIL
- X — EXISTING FENCE TO REMAIN
- X — FENCE & POSTS TO BE REMOVED

MATCHLINE 3.1
SEE SHEET L-3.2

NO REMOVAL BEYOND SILT SOCK

R&D BASKETBALL HOOPS & BACKBOARDS.

ASPHALT BETWEEN SAWCUT AND EX. WALL TO REMAIN

INV IN: ±35.9
INV OUT: NOT FOUND
EL OF SUMP: ±32.35

R&D (3) PICNIC TABLES & FOOTINGS, BY OTHERS

CATCH BASIN TO REMAIN

R&D CURBING TO LIMITS SHOWN

R&D CONCRETE SPLASH PAD & BASE, ALL SUBGRADE WATER LINES & SLOT DRAINS, & ALL SPLASH PAD FEATURES.

R&D (3) BENCHES & FOOTINGS, BY OTHERS
R&S ACTIVATOR

R&D CHAIN LINK FENCING & FOOTINGS TO LIMITS SHOWN, BY OTHERS

36" OF EXISTING ASPHALT TO REMAIN

SEE SHEET L-3.2 FOR INTERIOR PIPING DEMO

R&D CURBING TO LIMITS SHOWN

R&D TREE, TYP. BY OTHERS

R&D FENCE & RETAINING WALL TO EXTENTS SHOWN

R&S TRASH RECEPTACLE, BY OTHERS

R&D RETAINING WALL AND TUBE RAILING TO LIMITS SHOWN

R&D BENCH & FOOTINGS, BY OTHERS

R&S STONE MONUMENT

R&D BENCHES & FOOTINGS, BY OTHERS

R&D ALL CHAIN LINK BASEBALL FENCE, GATES AND FOOTING, BY OTHERS

R&S TRASH RECEPTACLES, TYP. BY OTHERS

REMOVE AND DISPOSE ASPHALT AND BASE. USE HAND TOOLS AT BASE OF TREES TO PREVENT TREE INJURY, TYP.

STOCKPILE SIGN, BY OTHERS

R&D SWING SET & FOOTINGS, BY OTHERS

R&D PLAYGROUND MULCH

R&D PLAY STRUCTURE & FOOTINGS, BY OTHERS

R&S BOULDERS (5)

R&D RAMP & FOOTINGS, BY OTHERS

FILE: CABR23.01-PLANS.dwg



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STAMP

PROJECT:

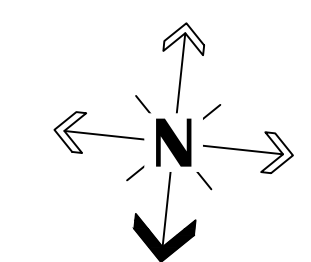
Site Improvements at Cabral Park

**515 Wickenden Street
Providence, RI**

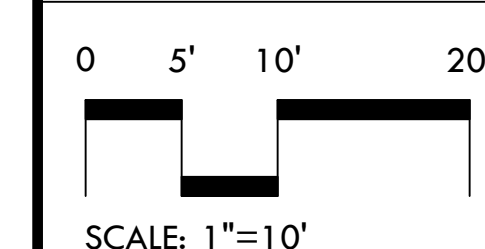
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1	02/27/26	ADDENDUM #3
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-	-	-

NORTH ARROW



SCALE



DRAWING INFO

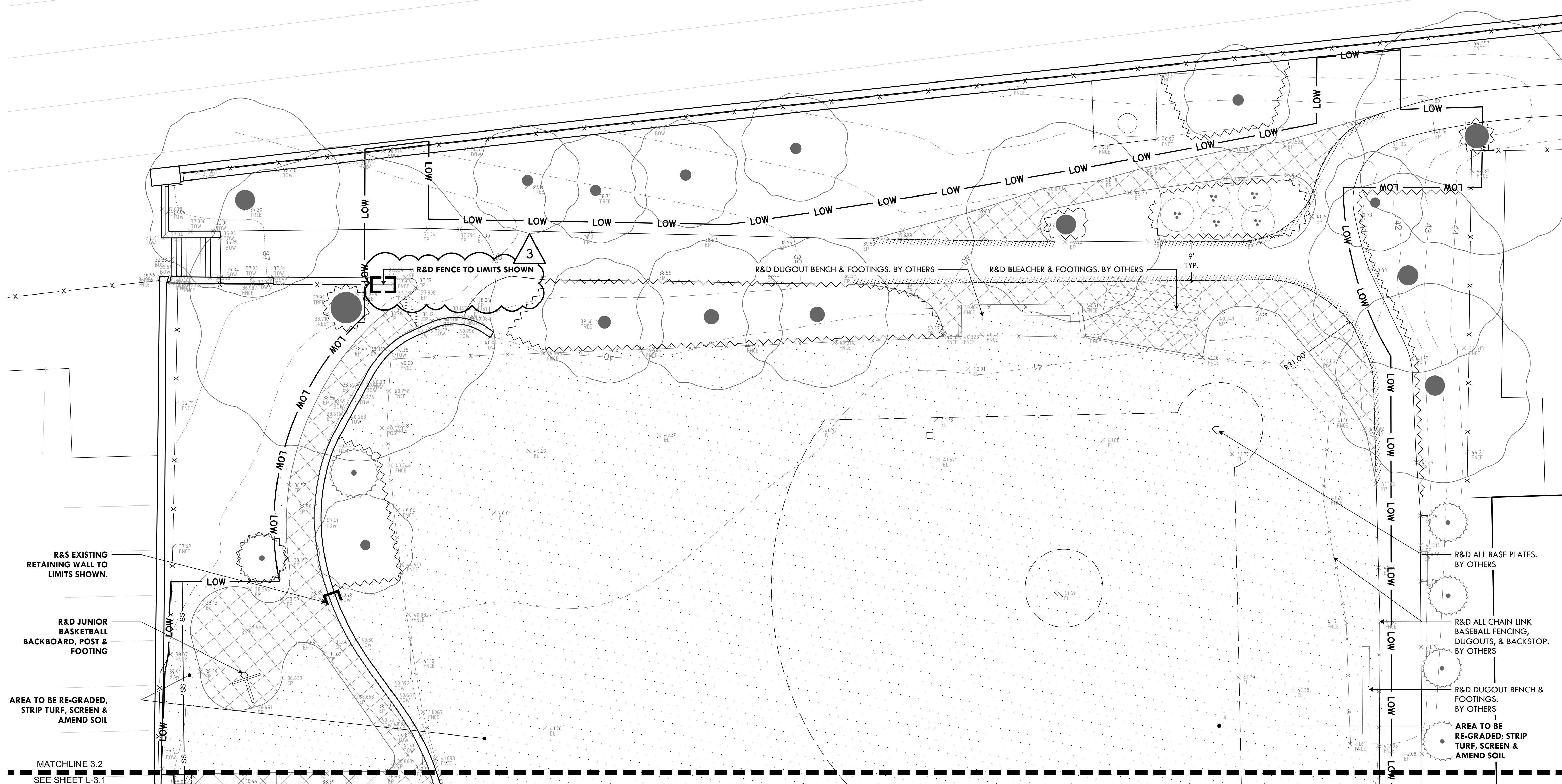
DATE ISSUED: 01/28/2026
PROJECT NO: CPPG.23.01
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SHEET TITLE

**Demolition
Plan (South)**

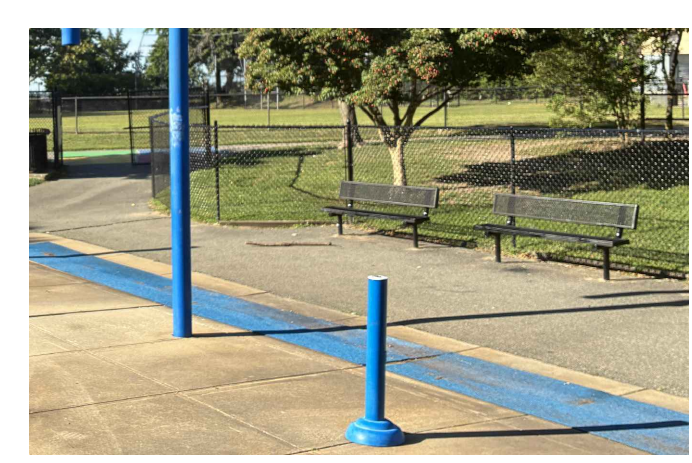
L-3.2

4 OF 23



DEMOLITION PLAN LEGEND

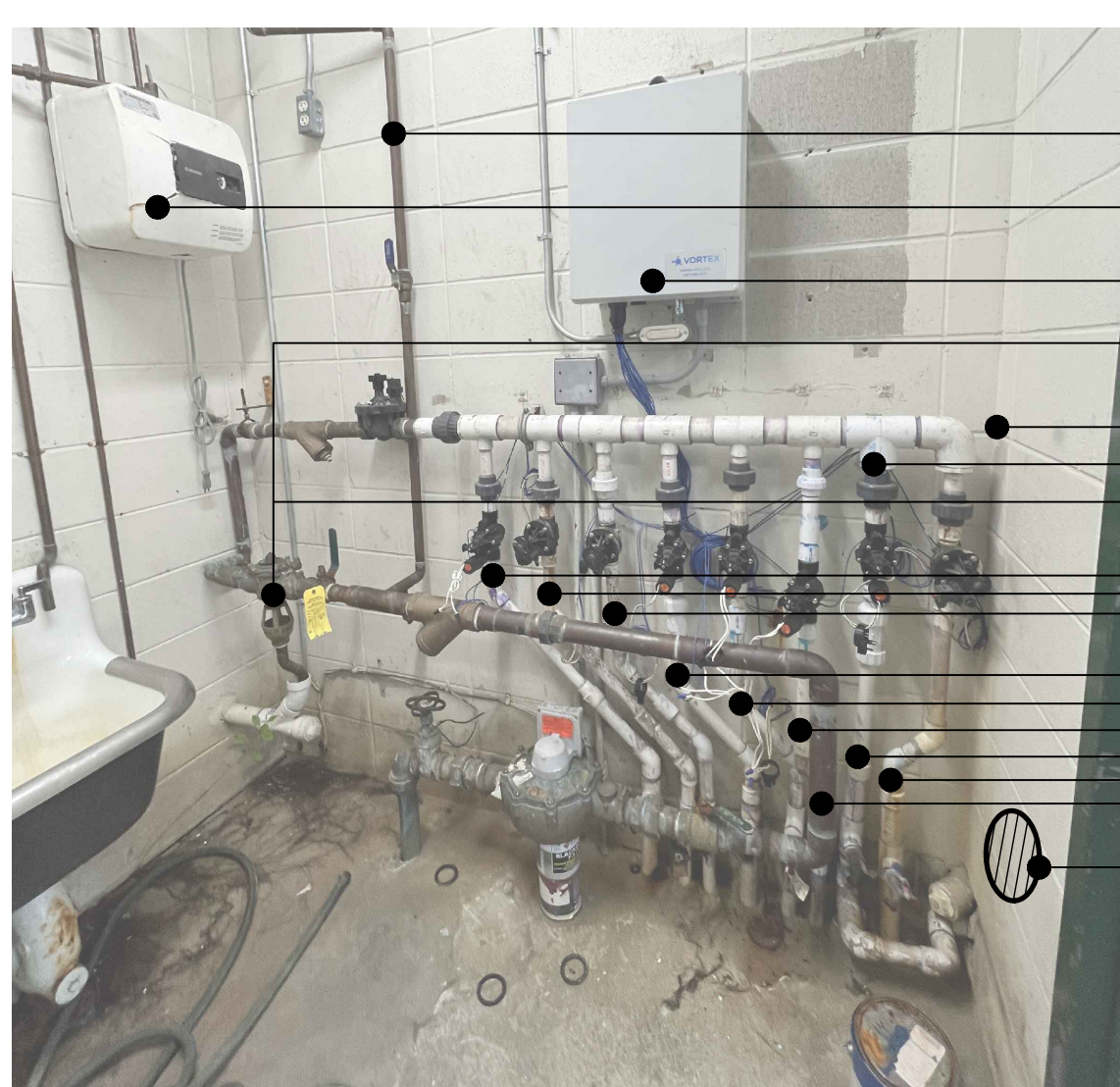
- LIMIT OF WORK
- TREE PROTECTION FENCE
- SAWCUT
- EXISTING TREE TO BE REMOVED
- SILT SOCK
- REMOVE & DISPOSE
- REMOVE & STOCKPILE
- R&D EX. ASPHALT & GRAVEL BASE
- STRIP TURF & TOPSOIL TO 12" DEPTH
- R&D EX. CONCRETE & GRAVEL BASE
- AREA TO BE RE-GRADED, STRIP TURF, SCREEN & AMEND SOIL
- EXISTING FENCE TO REMAIN
- FENCE & POSTS TO BE REMOVED
- LIMIT OF FENCE OR WALL REMOVAL



REMOVE AND STOCKPILE EX. ACTIVATOR

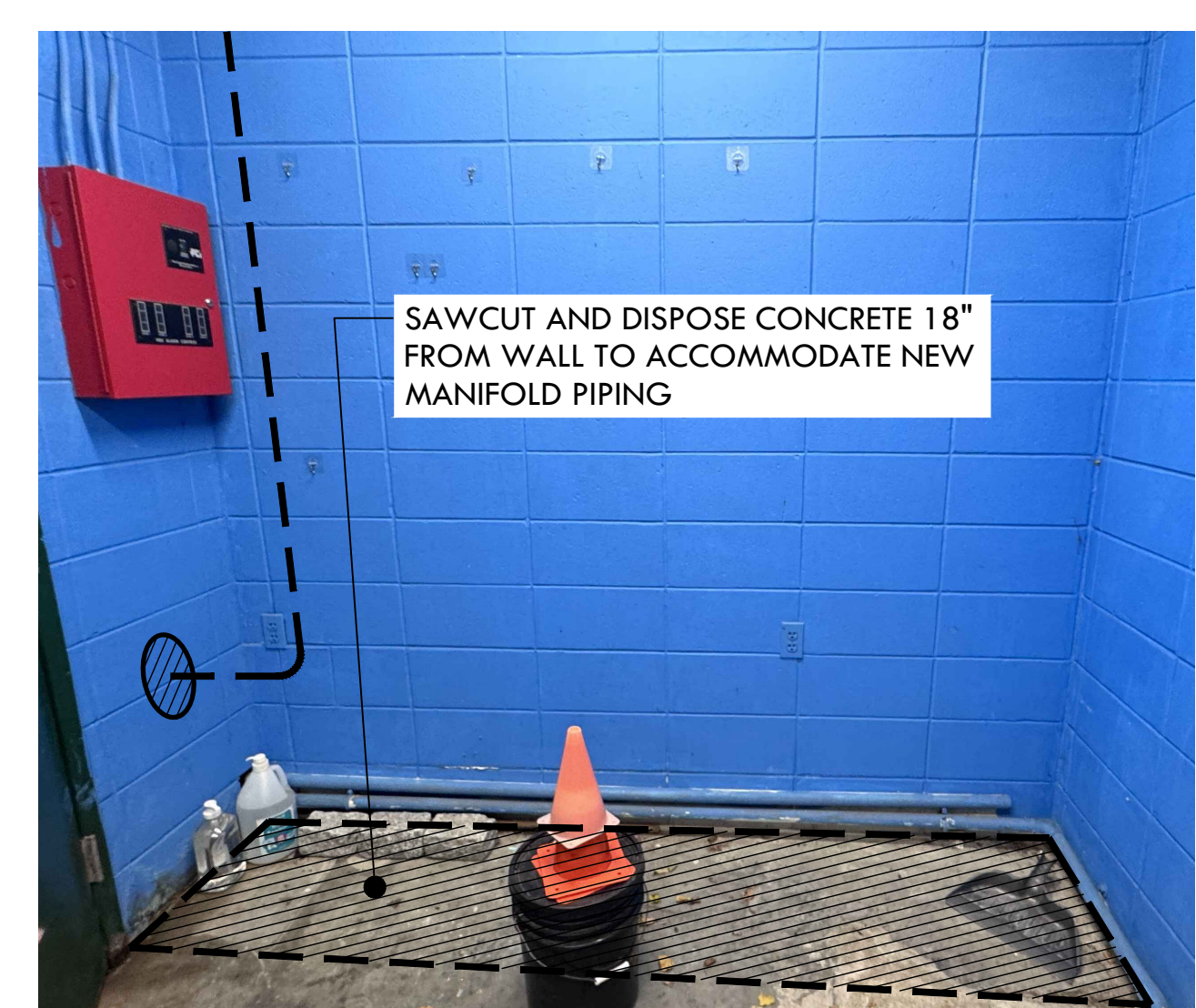


REMOVE AND REPLACE GATE VALVE WITH 2" BALL VALVE



FLUSH CUT AND DISPOSE ALL VALVES, MANIFOLD AND PIPING. GRIND SMOOTH ANY SHARP EDGES.

- RECONNECT BATHROOM WATERLINE AFTER NEW BACKFLOW PREVENTER R&D WATER TANK
- R&S MAESTRO 2 CONTROLLER
- REMOVE AND REPLACE BACKFLOW PREVENTER. SUPPORT AS NEEDED WITH BRACKETS.
- F&I BOILER DRAIN VALVE
- R&D EXISTING MANIFOLD
- R&S WATER METER
- R&D EXISTING PIPES AND VALVES
- EXISTING 2" WATER LINE TO REMAIN CORE THROUGH WALL TO ACCOMMODATE 2" WATER LINE FOR SPRAY PAD PLUMBING



SAWCUT AND DISPOSE CONCRETE 18" FROM WALL TO ACCOMMODATE NEW MANIFOLD PIPING

MATCHLINE 4.1
SEE SHEET L-4.2



**PROVIDENCE
PARKS DEPARTMENT**
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



**Providence
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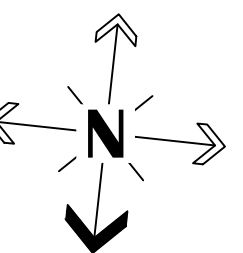
**Site Improvements at
Cabral Park**

**515 Wickenden Street
Providence, RI**

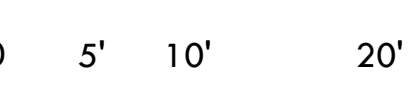
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-	-	-

NORTH ARROW



SCALE



SCALE: 1"=10'

DRAWING INFO

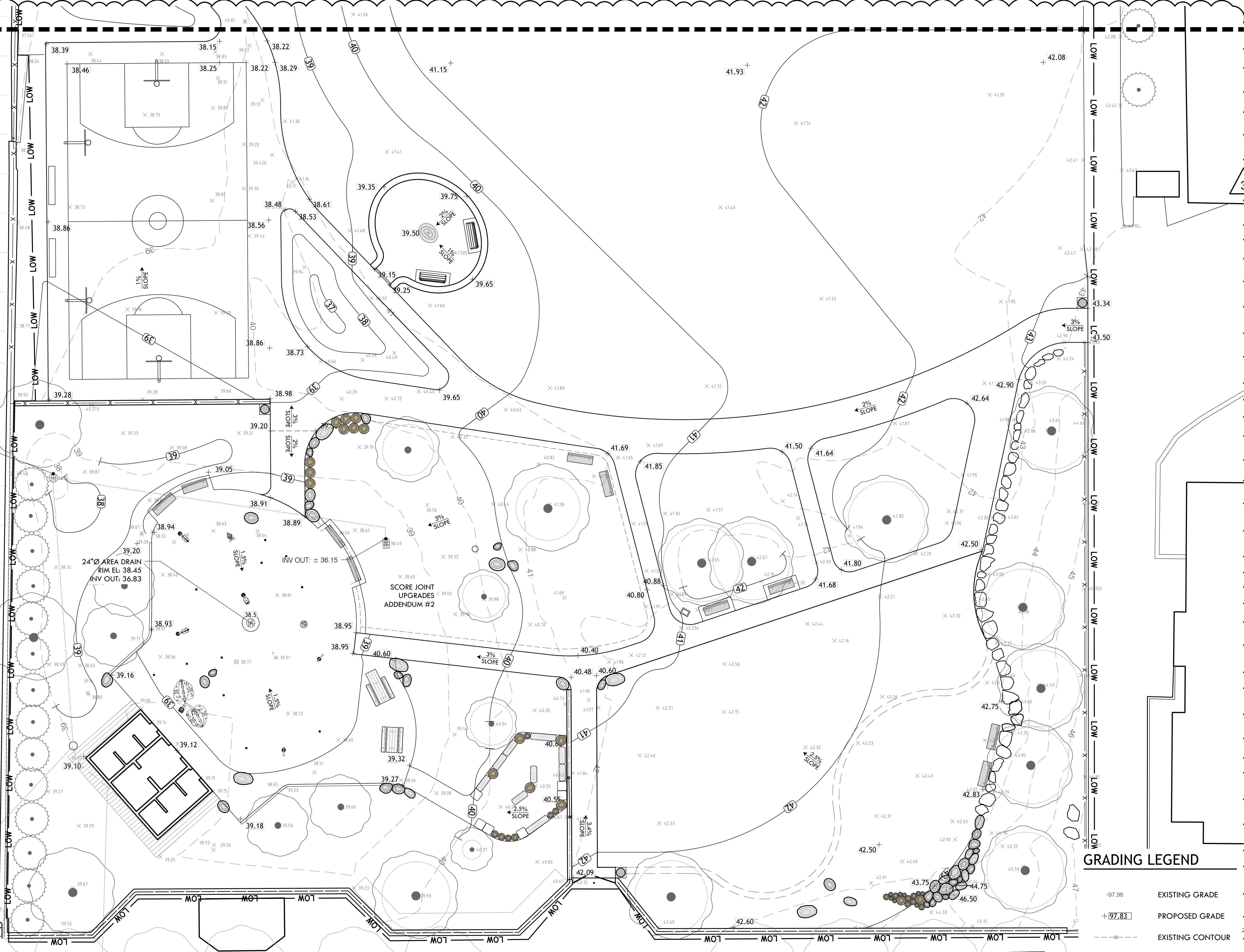
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SHEET TITLE

**Grading & Utilities
Plan (North)**

L-4.1

5 OF 23



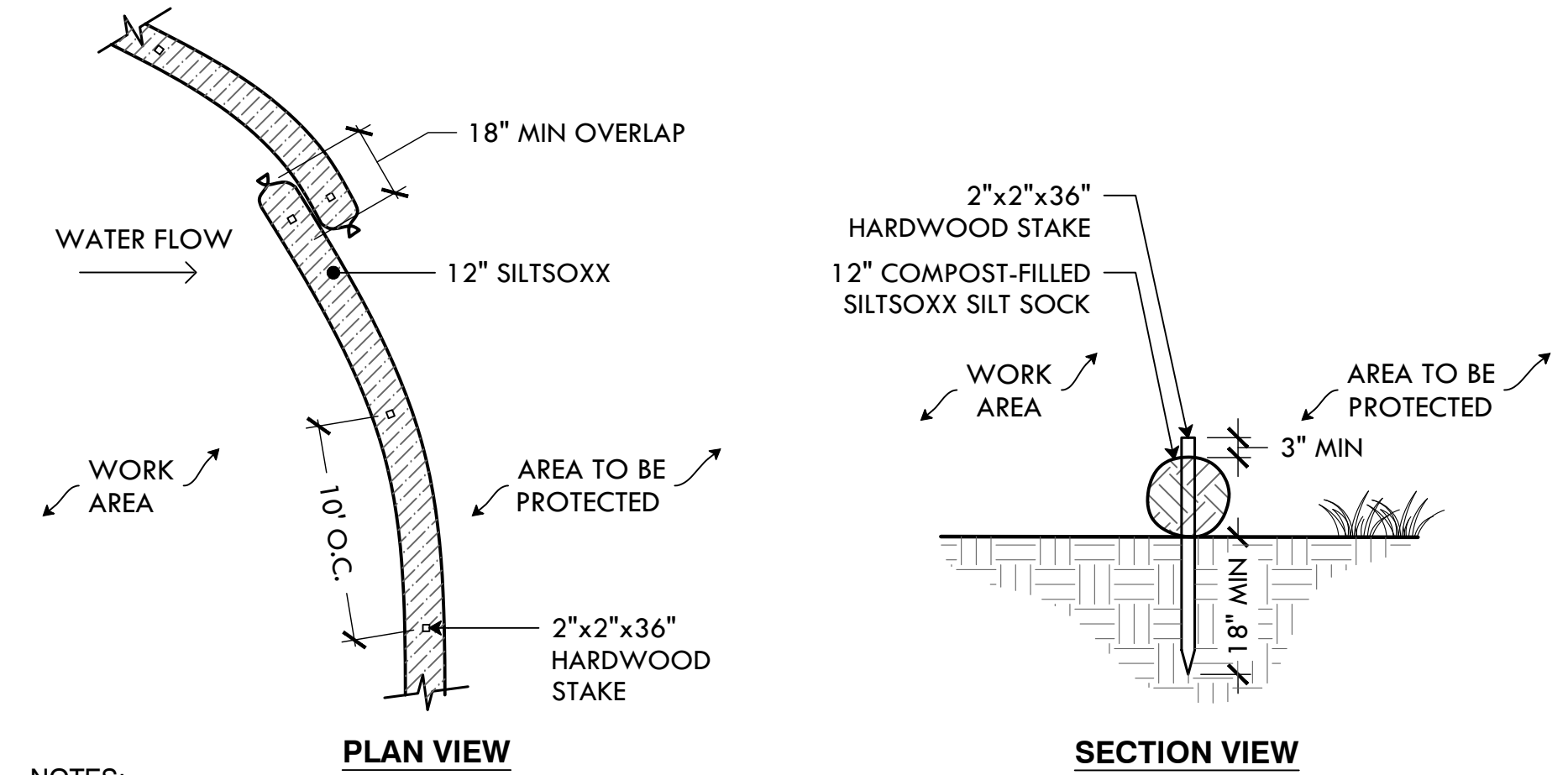
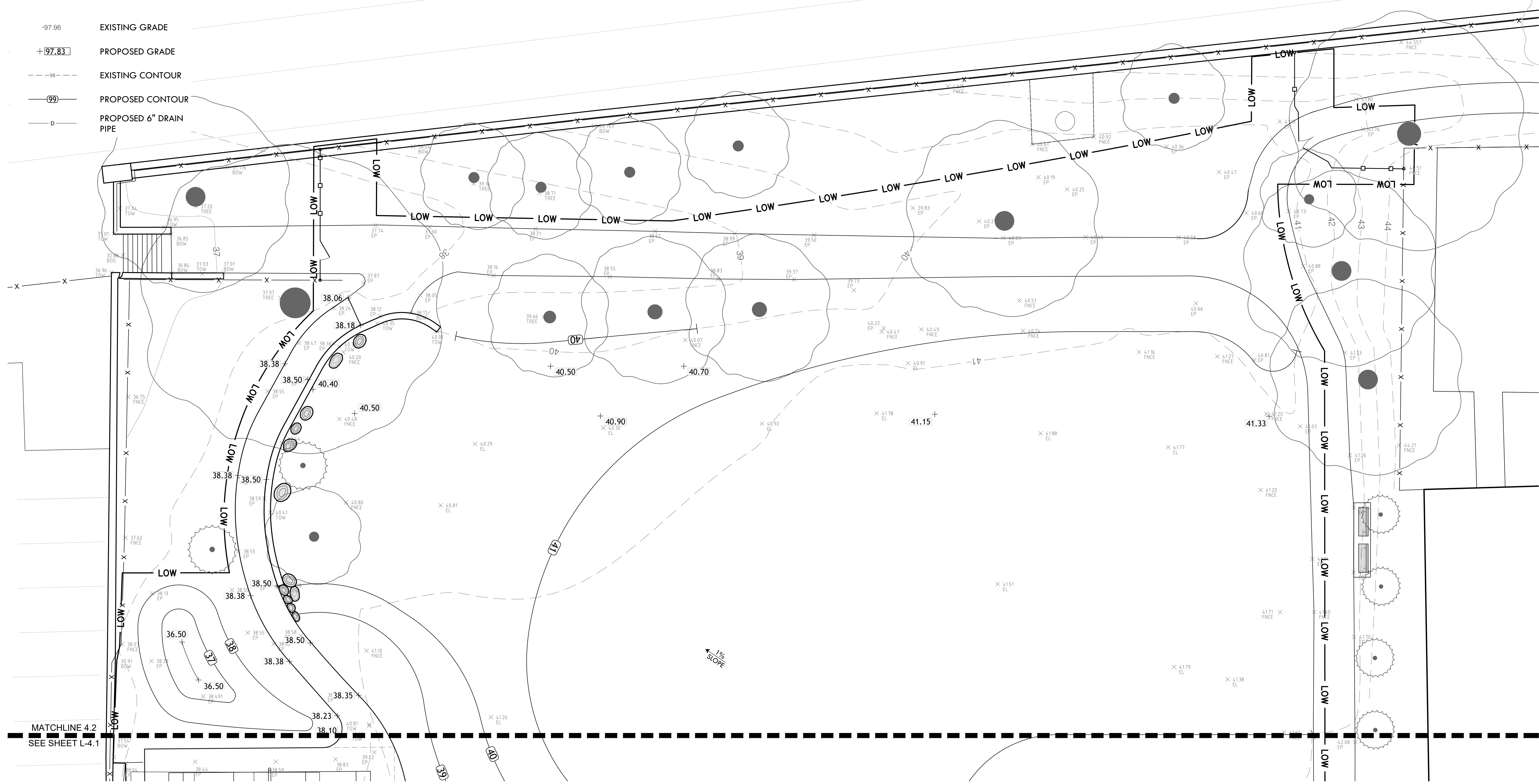
GRADING LEGEND

- 97.96 EXISTING GRADE
- +97.83 PROPOSED GRADE
- - - - EXISTING CONTOUR
- - - - PROPOSED CONTOUR
- - - - PROPOSED 6" DRAIN PIPE

FILE: CABR23.01-PLANS.dwg

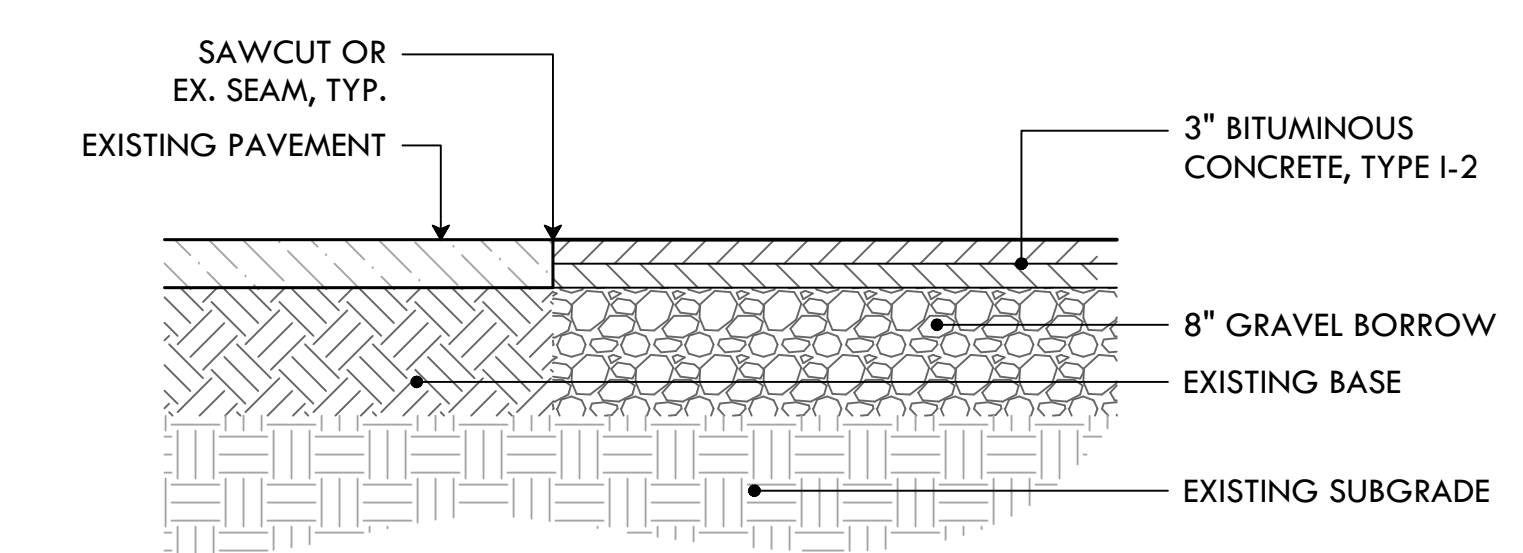
GRADING LEGEND

- 97.96 EXISTING GRADE
- +97.83 PROPOSED GRADE
- - - - EXISTING CONTOUR
- PROPOSED CONTOUR
- D PROPOSED 6" DRAIN PIPE



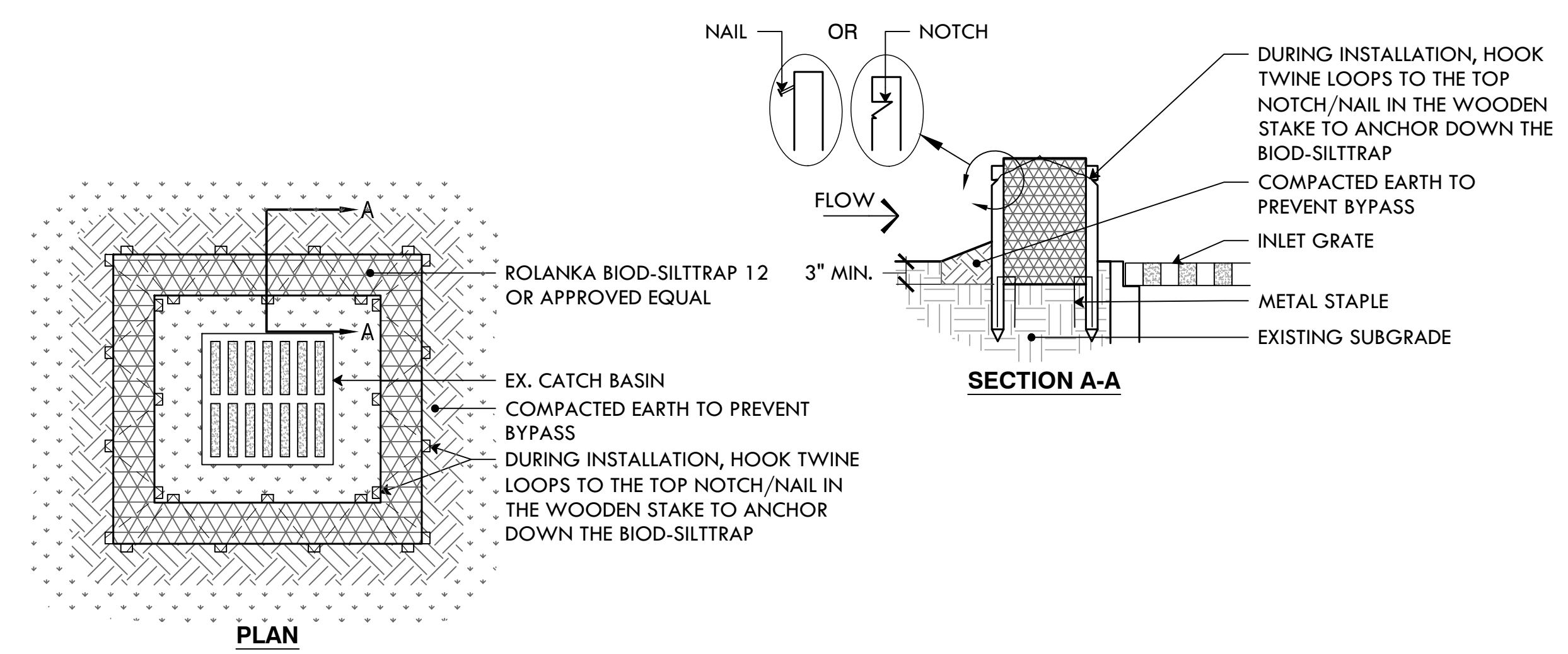
- NOTES:**
- SILT SOCK SHALL BE SILT SOCK BY FILTREXX OR LANDSCAPE ARCHITECT APPROVED EQUAL.
 - FILL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS
 - FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL SHALL BE TO BE DISPERSED ON SITE, IN LOCATION SELECTED BY THE LANDSCAPE ARCHITECT.

1 SILT SOCK/COMPOST FILTER SOCK EROSION CONTROL
NOT TO SCALE

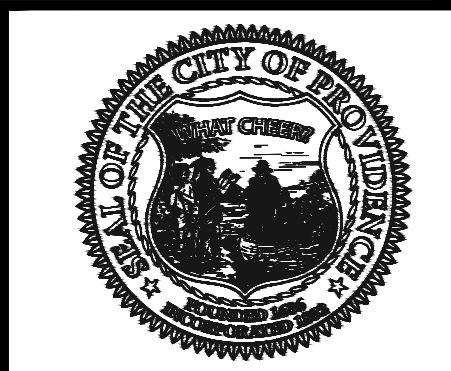


- NOTES:**
- DISTURBED AREAS SHALL NOT EXTEND BEYOND THE SAWCUT.
 - CLEAN SAWED JOINTS WITH COMPRESSED AIR
 - APPLY JOINT SEAL MATERIAL FILLING FROM THE BOTTOM UP
 - THE HOT-SEAL MATERIAL SHALL COMPLETELY FILL THE SAWCUT SUCH THAT AFTER COOLING THE LEVEL OF THE SEALER WILL NOT BE GREATER 1/8" BELOW THE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

2 ASPHALT SAWCUT
NOT TO SCALE



3 CATCH BASIN SILT TRAP
NOT TO SCALE



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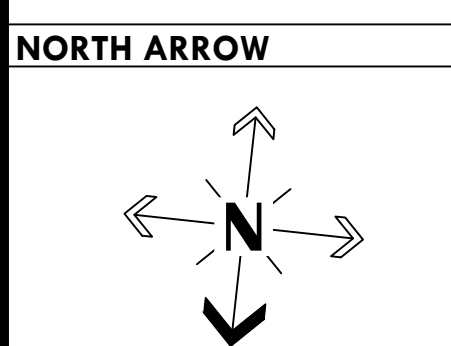
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Site Improvements at Cabral Park
515 Wickenden Street
Providence, RI

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

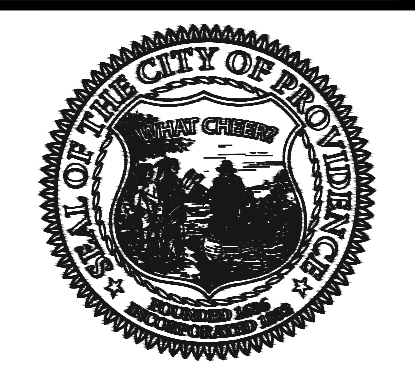
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PROJECT NO: CPPG.23.01
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SHEET TITLE
Grading Plan (South)

FILE: CABR23.01-PLANS.dwg

MATERIALS PLAN LEGEND

LOW	LIMIT OF WORK		ADD ALT #1 EX. AGGREGATE CONCRETE PAVING		ROUNDED, NATIVE BOULDERS
X	4'H CHAIN LINK (CL) MESH		SALVAGED JUMBO COBBLE PAVING EDGE		6' BENCH W/ BACK, IN-GROUND MOUNT
	ROLL-DOWN CURB / HAUNCH		STABILIZED STONEDUST PATH		6' BACKLESS BENCH, IN-GROUND MOUNT
	12' W BLACK VINYL CHAIN LINK GATE		SYNLAWN SURFACING		VESTRE BENCH W/ HIGH BACK AND ARMRESTS
	LIMITS OF FENCE/WALL WORK		EWf MULCH (12" IN USE ZONES, 6" IN OTHER AREAS)		BENCH ON 4" CONCRETE PAD
	EX. BOULDERS TO REMAIN		FLUSH GRANITE CURB		6' PICNIC TABLE AND ADA PICNIC TABLE TMR
	3" ASPHALT PAVING		EXISTING CONCRETE CURB TO REMAIN		GRANITE BLOCK SEAT
	4" POURED CONCRETE, BROOM FINISH		55 GAL TRASH RECEPTACLE, SURFACE MOUNT ON CONCRETE PAD		4' L AND 6' LONG WOOD LOG BENCH
					LOG SEAT/STEEPERS, DIA. VARIES.



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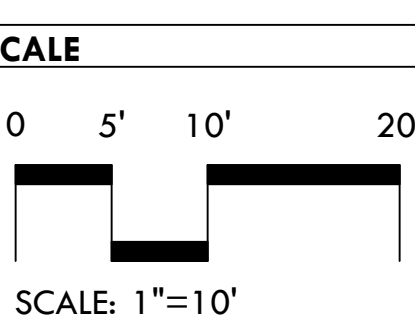
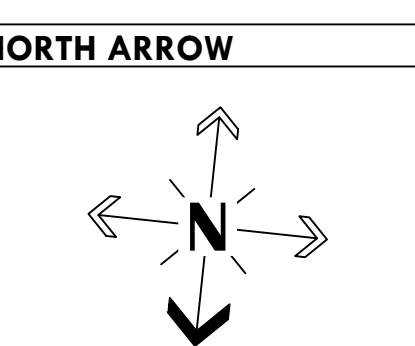
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**Site Improvements at
Cabral Park**

**515 Wickenden Street
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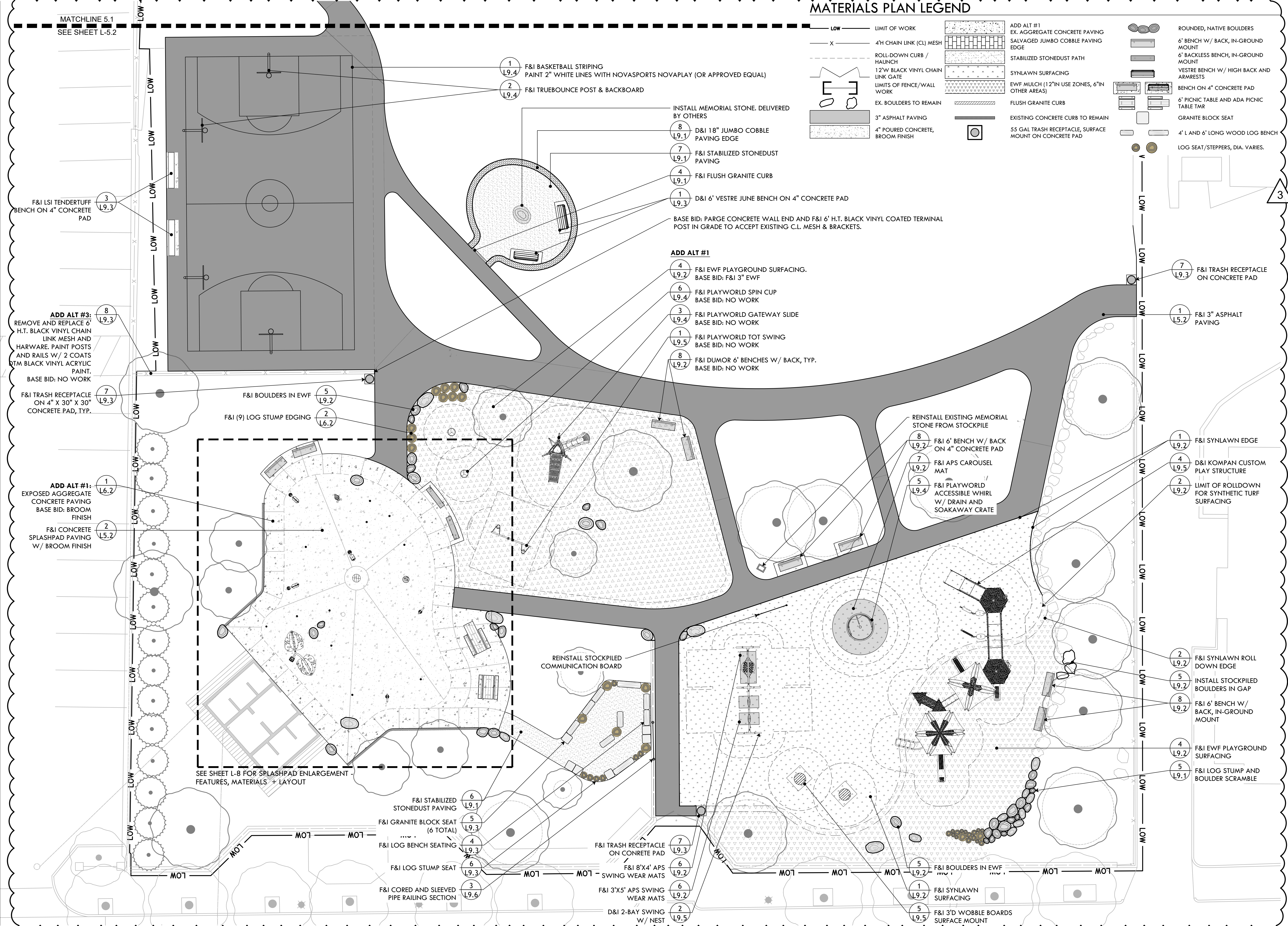
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SHEET TITLE
**Materials Plan
(North)**



MATCHLINE 5.1
SEE SHEET L-5.2

F&I LSI TENDERTUFF
BENCH ON 4" CONCRETE
PAD

ADD ALT #3:
REMOVE AND REPLACE 6'
H.T. BLACK VINYL CHAIN
LINK MESH AND
HARWARE. PAINT POSTS
AND RAILS W/ 2 COATS
OF BLACK VINYL ACRYLIC
PAINT.
BASE BID: NO WORK

F&I TRASH RECEPTACLE
ON 4" X 30" X 30"
CONCRETE PAD, TYP.

ADD ALT #1:
EXPOSED AGGREGATE
CONCRETE PAVING
BASE BID: BROOM
FINISH

F&I CONCRETE
SPLASHPAD PAVING
W/ BROOM FINISH

SEE SHEET L-8 FOR SPLASHPAD ENLARGEMENT -
FEATURES, MATERIALS + LAYOUT

F&I STABILIZED
STONEDUST PAVING
F&I GRANITE BLOCK SEAT
(6 TOTAL)
F&I LOG BENCH SEATING
F&I LOG STUMP SEAT
F&I CORED AND SLEEVED
PIPE RAILING SECTION

F&I TRASH RECEPTACLE
ON CONCRETE PAD
F&I 8'X4' APS
SWING WEAR MATS
F&I 3'X5' APS SWING
WEAR MATS
D&I 2-BAY SWING
W/ NEST

F&I BOULDERS IN EWF
F&I SYNLAWN
SURFACING
F&I 3'D WOBBLE BOARDS
SURFACE MOUNT

1 L9.4 F&I BASKETBALL STRIPING
PAINT 2" WHITE LINES WITH NOVASPORTS NOVAPLAY (OR APPROVED EQUAL)
2 L9.4 F&I TRUEBOUNCE POST & BACKBOARD

INSTALL MEMORIAL STONE, DELIVERED
BY OTHERS
8 L9.1 D&I 18" JUMBO COBBLE
PAVING EDGE
7 L9.1 F&I STABILIZED STONEDUST
PAVING
4 L9.1 F&I FLUSH GRANITE CURB
1 L9.3 D&I 6' VESTRE JUNE BENCH ON 4" CONCRETE PAD
BASE BID: PARGE CONCRETE WALL END AND F&I 6' H.T. BLACK VINYL COATED TERMINAL
POST IN GRADE TO ACCEPT EXISTING C.L. MESH & BRACKETS.

ADD ALT #1
4 L9.2 F&I EWF PLAYGROUND SURFACING.
BASE BID: F&I 3" EWF
6 L9.4 F&I PLAYWORLD SPIN CUP
BASE BID: NO WORK
3 L9.4 F&I PLAYWORLD GATEWAY SLIDE
BASE BID: NO WORK
1 L9.5 F&I PLAYWORLD TOT SWING
BASE BID: NO WORK
8 L9.2 F&I DUMOR 6' BENCHES W/ BACK, TYP.
BASE BID: NO WORK

REINSTALL EXISTING MEMORIAL
STONE FROM STOCKPILE
8 L9.2 F&I 6' BENCH W/ BACK
ON 4" CONCRETE PAD
7 L9.2 F&I APS CAROUSEL
MAT
5 L9.4 F&I PLAYWORLD
ACCESSIBLE WHIRL
W/ DRAIN AND
SOAKAWAY CRATE

1 L9.2 F&I SYNLAWN EDGE
4 L9.5 D&I KOMPAN CUSTOM
PLAY STRUCTURE
2 L9.2 LIMIT OF ROLLODOWN
FOR SYNTHETIC TURF
SURFACING

2 L9.2 F&I SYNLAWN ROLL
DOWN EDGE
5 L9.2 INSTALL STOCKPILED
BOULDERS IN GAP
8 L9.2 F&I 6' BENCH W/
BACK, IN-GROUND
MOUNT
4 L9.2 F&I EWF PLAYGROUND
SURFACING
5 L9.1 F&I LOG STUMP AND
BOULDER SCRAMBLE



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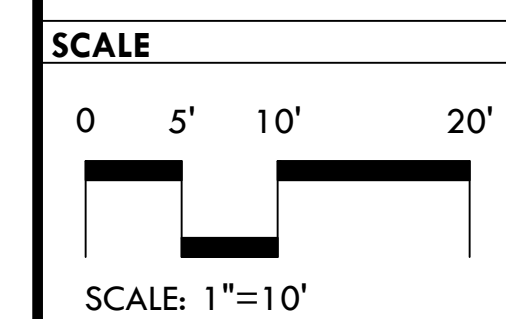
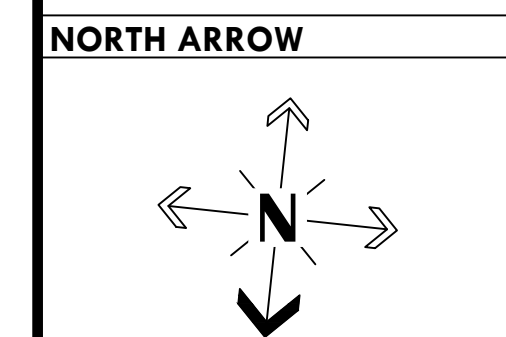
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Site Improvements at Cabral Park
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Providence, RI

REVISIONS:

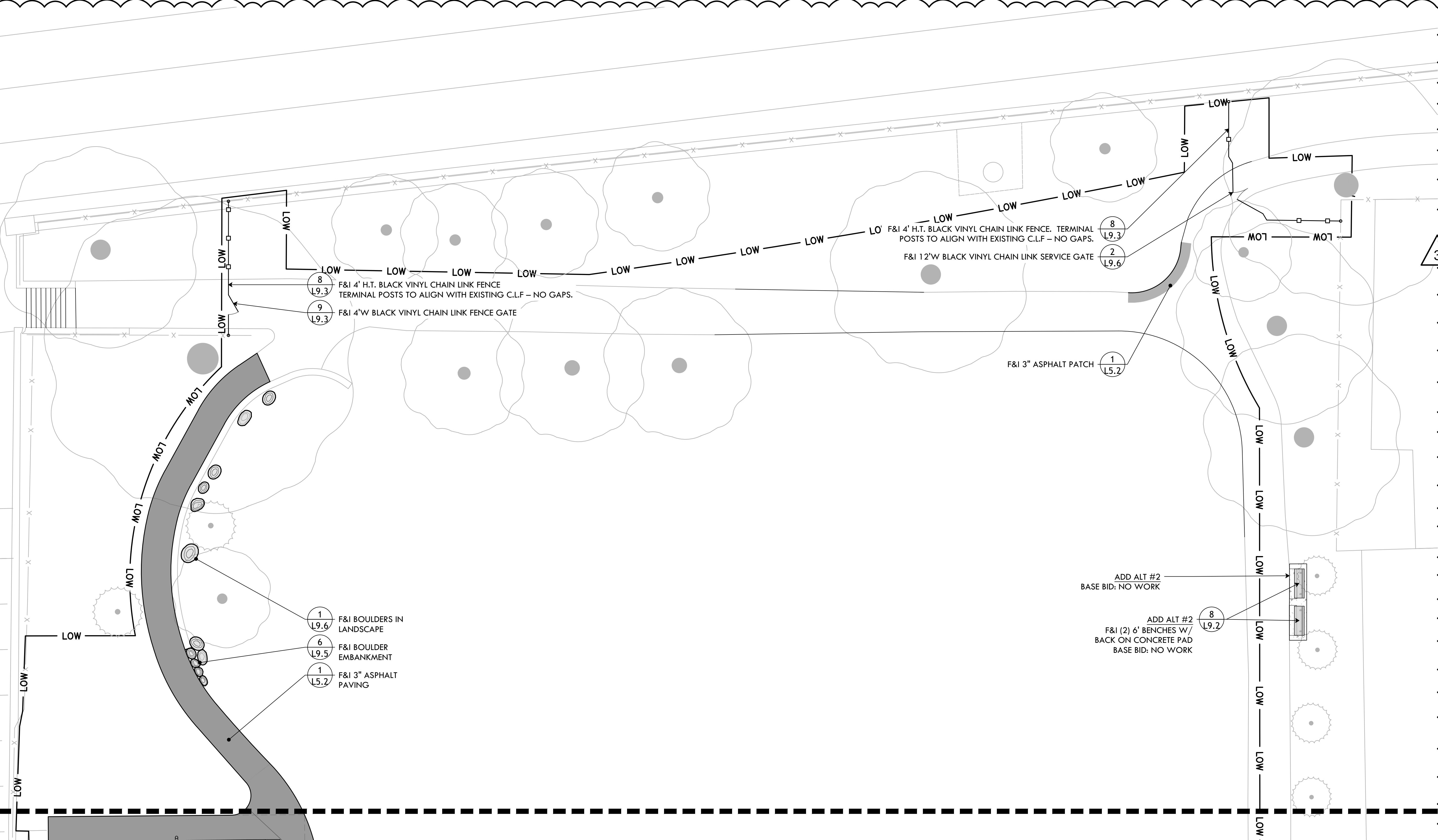
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SHEET TITLE
Materials Plan

L-5.2

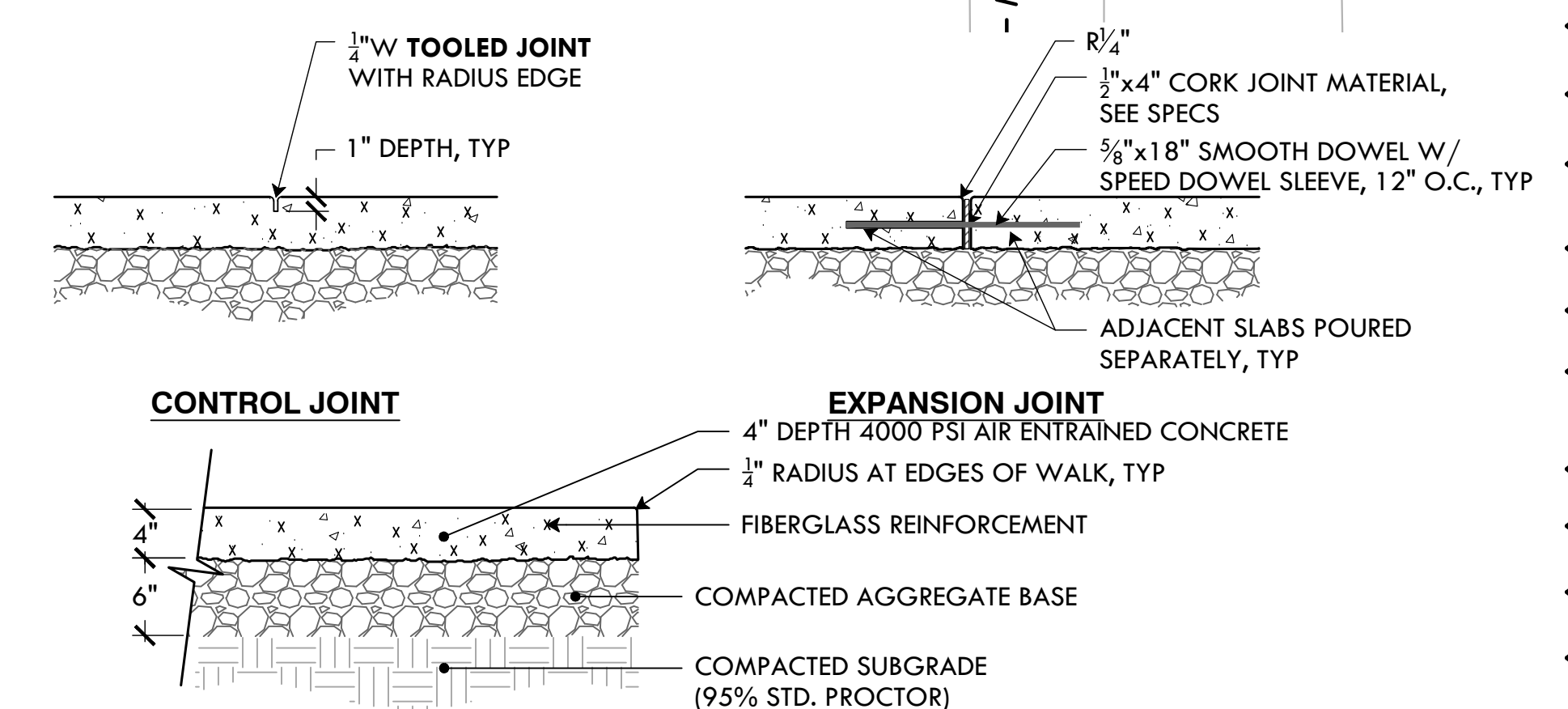
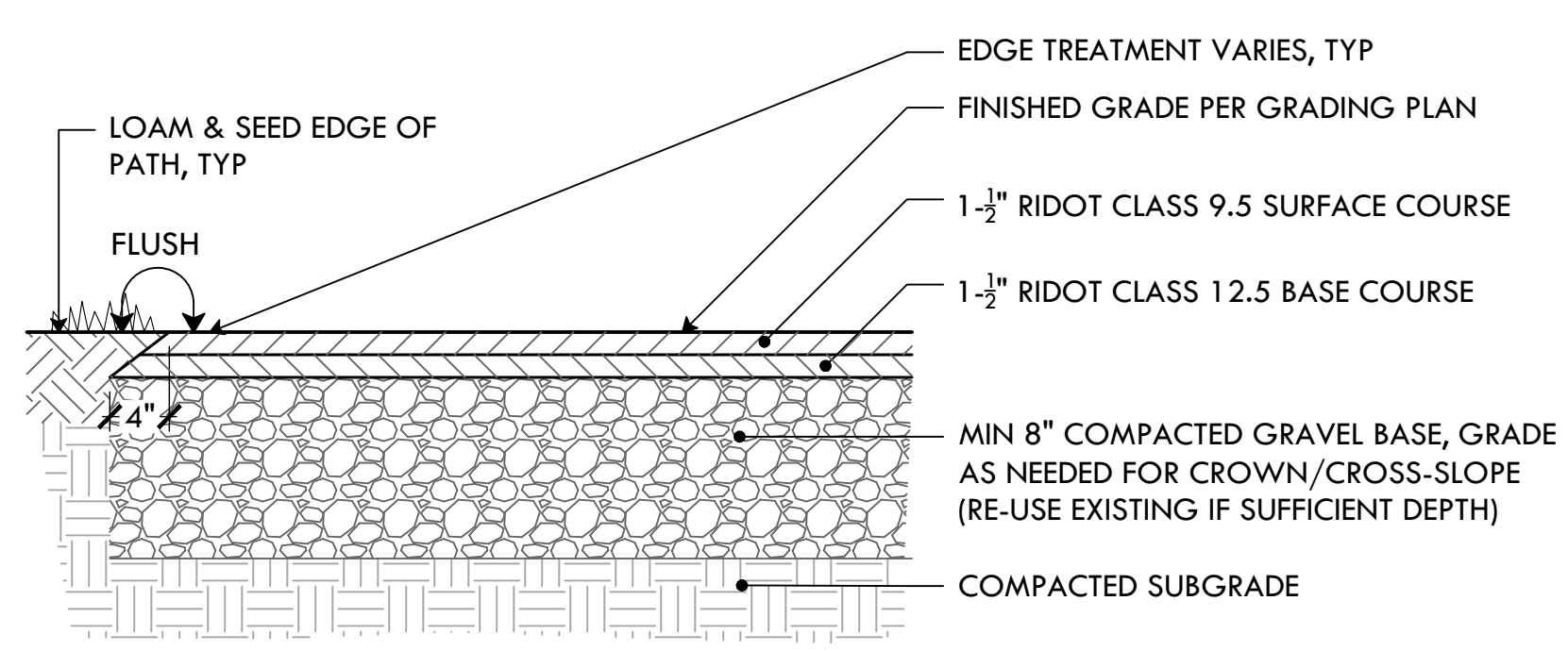
FILE: CABR23.01-PLANS.dwg



MATCHLINE 5.2
SEE SHEET L-5.1

MATERIALS PLAN LEGEND

	LIMIT OF WORK		ADD ALT #1 EX. AGGREGATE CONCRETE PAVING SALVAGED JUMBO COBBLE PAVING EDGE		ROUNDED, NATIVE BOULDERS
	4' H CHAIN LINK (CL) MESH		STABILIZED STONEDUST PATH		6' BENCH W/ BACK, IN-GROUND MOUNT
	ROLL-DOWN CURB / HAUNCH		SYNLAWN SURFACING		6' BACKLESS BENCH, IN-GROUND MOUNT
	12' W BLACK VINYL CHAIN LINK GATE		EW F MULCH (1 1/2" IN USE ZONES, 6" IN OTHER AREAS)		VESTRE BENCH W/ HIGH BACK AND ARMRESTS
	LIMITS OF FENCE/WALL WORK		FLUSH GRANITE CURB		BENCH ON 4" CONCRETE PAD
	EX. BOULDERS TO REMAIN		EXISTING CONCRETE CURB TO REMAIN		6' PICNIC TABLE AND ADA PICNIC TABLE TMR
	3" ASPHALT PAVING		55 GAL TRASH RECEPTACLE, SURFACE MOUNT ON CONCRETE PAD		GRANITE BLOCK SEAT
	4" POURED CONCRETE, BROOM FINISH				4' L AND 6' LONG WOOD LOG BENCH
					LOG SEAT/STEPPERS, DIA. VARIES.



SECTION ELEVATION

NOTES:
 1. CONCRETE TO BE MEDIUM BROOM FINISH UNLESS OTHERWISE NOTED
 2. CONTROL JOINTS TO BE TOOLED, NOT SAWED UNLESS OTHERWISE NOTED
 3. EXPANSION JOINTS TO ALWAYS BE FORMED AND DOWELED, SAWED JOINTS NOT ACCEPTABLE
 4. SEE SPECS FOR CONCRETE MIX REQUIREMENTS

1 3" ASPHALT PAVING
NOT TO SCALE

2 4" CONCRETE PAVING
NOT TO SCALE



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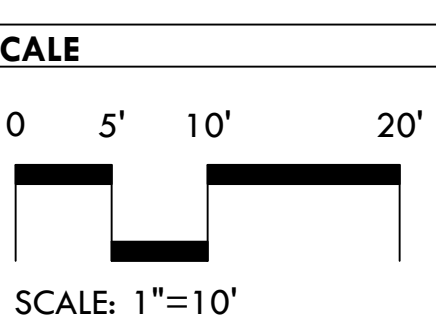
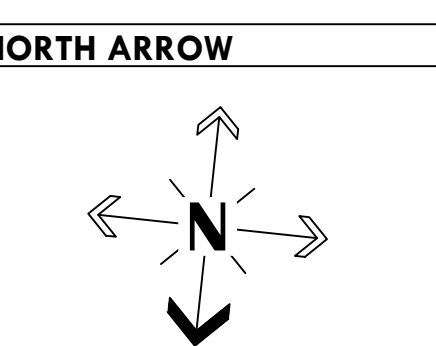
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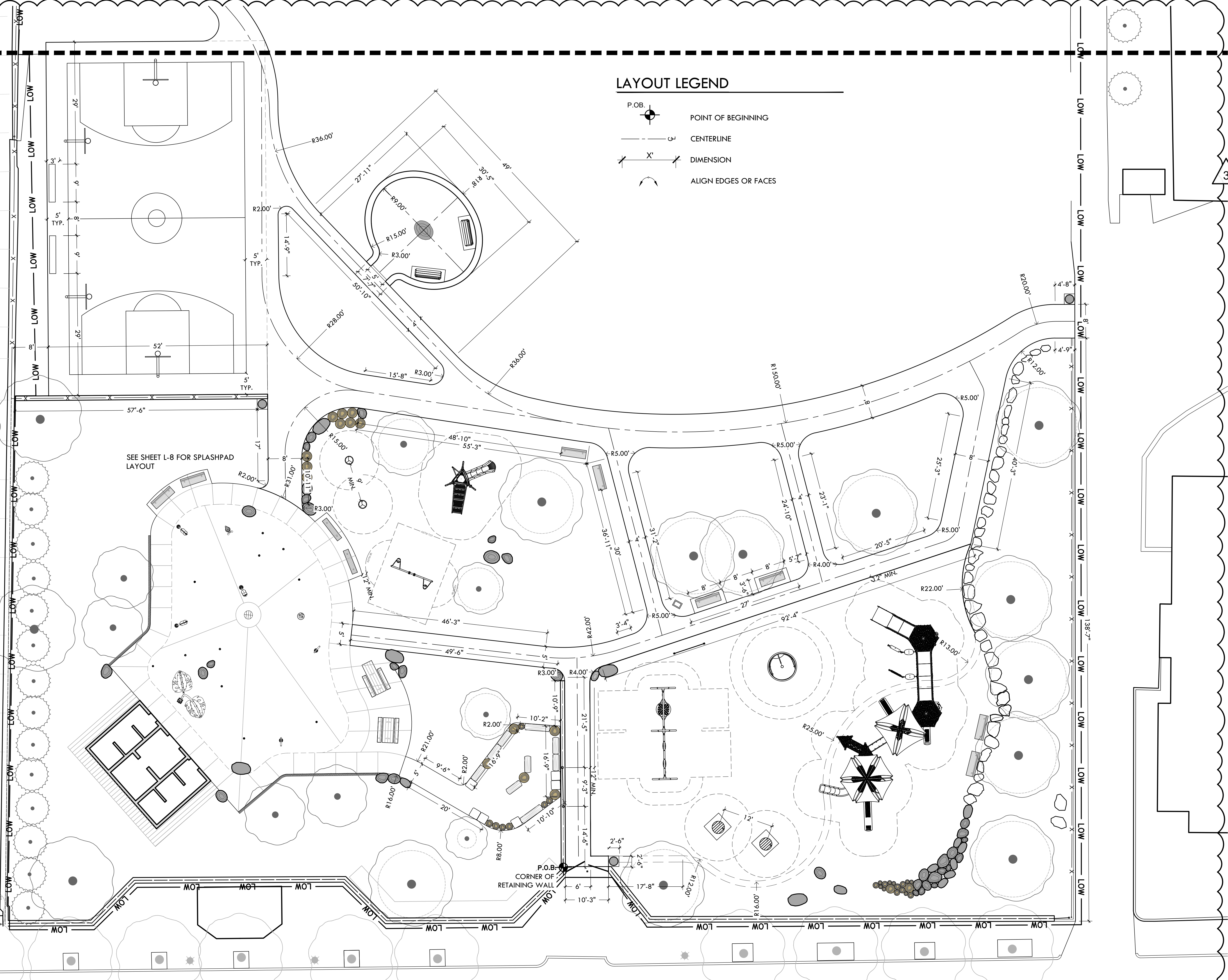
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SHEET TITLE
 Layout Plan (North)

LAYOUT LEGEND

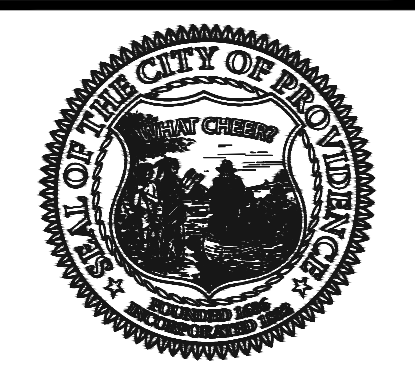
- P.O.B. POINT OF BEGINNING
- CENTERLINE
- DIMENSION
- ALIGN EDGES OR FACES

MATCHLINE 6.1
 SEE SHEET L-6.2



3

MATCHLINE 7.1
SEE SHEET L-7.2



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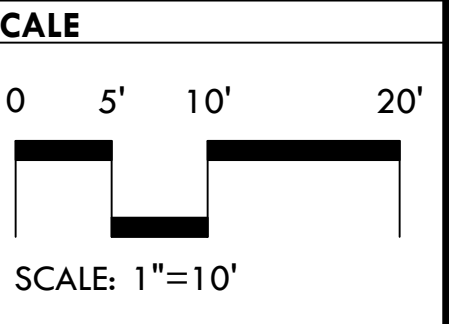
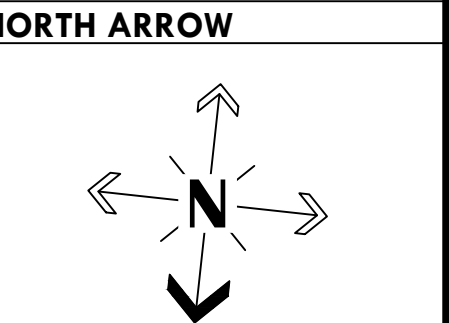
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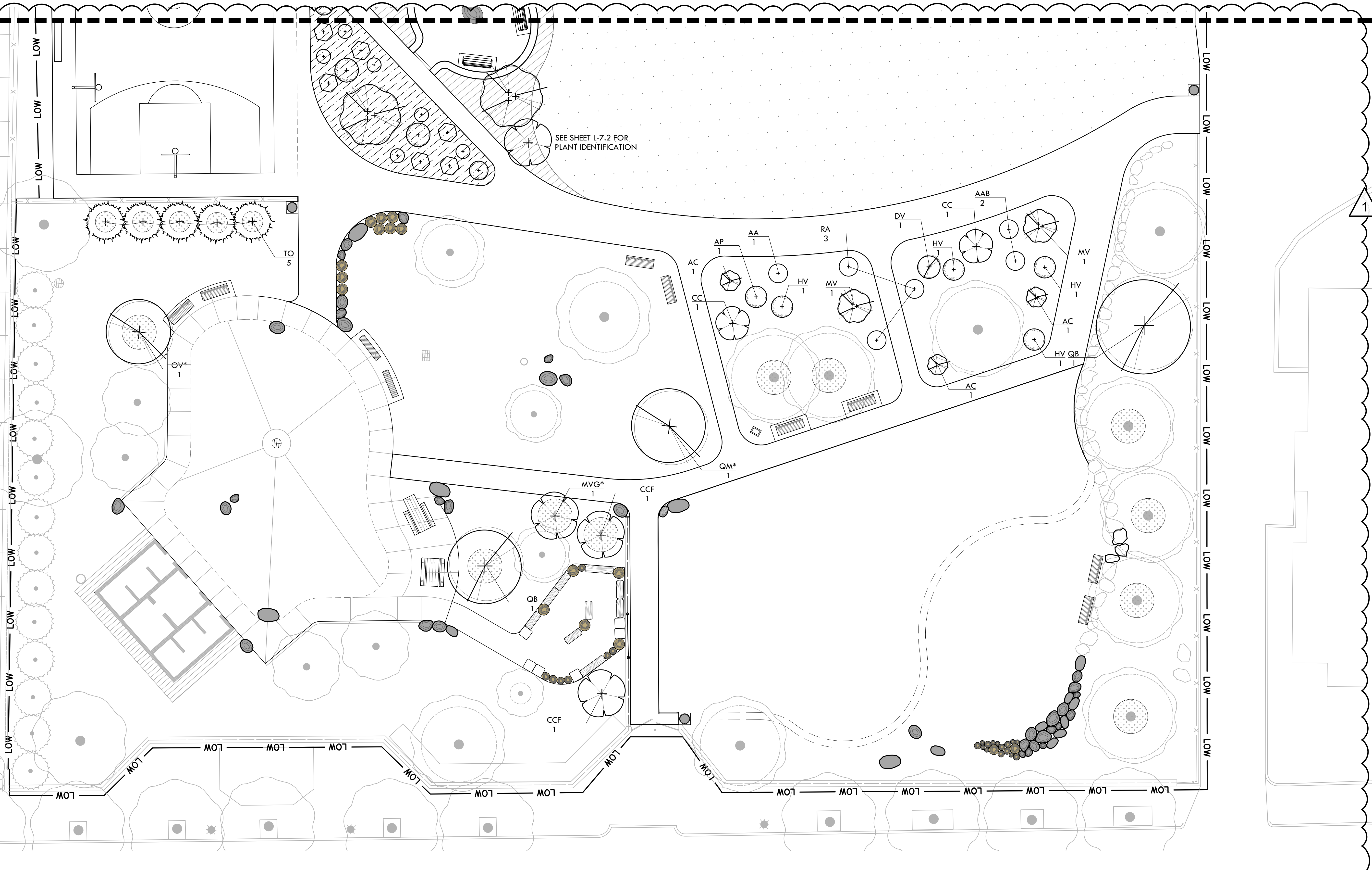
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SHEET TITLE
Planting Plan



SEE SHEET L-7.2 FOR
PLANT IDENTIFICATION

KEY	QTY	BOTANICAL NAME COMMON NAME	SIZE	NOTES
TREES - BASE BID				
AA	3	<i>Amelanchier canadensis</i> SHADBLOW SERVICEBERRY	6/7' clump	X
BN	2	<i>Betula nigra</i> 'Cully' HERITAGE RIVER BIRCH	10/12' clump	X
CC	2	<i>Cercis canadensis</i> EASTERN REDBUD	1.5/2" cal	X
CCF	3	<i>Cercis canadensis</i> 'Forest Pansy' EASTERN REDBUD	2.5/3" cal	X
DV	1	<i>Diospyros virginiana</i> PERSIMMON	#7	X
QB	1	<i>Quercus bicolor</i> SWAMP WHITE OAK	2.5/3" cal	X
QM	1	<i>Quercus macrocarpa</i> BUR OAK	2.5/3" cal	X
TO	5	<i>Thuja occidentalis</i> 'Nigra' DARK AMERICAN ARBOVITAE	8/10' BB	X

KEY	QTY	BOTANICAL NAME COMMON NAME	SIZE	NOTES
SHRUBS - BASE BID				
AP	1	<i>Aesculus pavia</i> RED BUCKEYE	5' CONT.	48" O.C.
AAB	3	<i>Aronia arbutifolia</i> 'Brilliantissima' CHOKEBERRY	#3	48" O.C.
HV	4	<i>Hamamelis vernalis</i> VERNAL WITCH HAZEL	#3	48" O.C.
RM	5	<i>Rhododendron maximum</i> ROSEBAY RHODODENDRON	4/5' BB	48" O.C.
RA	3	<i>Rhus aromatica</i> 'Gro-Low' FRAGRANT SUMAC	#3 CONT.	48" O.C.

KEY	QTY	BOTANICAL NAME COMMON NAME	SIZE	NOTES
* TREES - ADD/ALTS #5				
BN	1	<i>Betula nigra</i> 'Cully' HERITAGE RIVER BIRCH	10/12' clump	X
CC	1	<i>Cercis canadensis</i> 'Forest Pansy' EASTERN REDBUD	2.5/3" cal	X
LT	1	<i>Liriodendron tulipifera</i> 'Emerald City' TULIP TREE	2.5/3" cal	X
MVG	2	<i>Magnolia virginiana</i> 'Moonglow' SWEETBAY MAGNOLIA	2/2.5" cal	X
OV	1	<i>Ostrya virginiana</i> IRONWOOD	2/2.5" cal	X
QB	1	<i>Quercus bicolor</i> SWAMP WHITE OAK	2.5/3" cal	X

KEY	QTY	BOTANICAL NAME COMMON NAME	SIZE	NOTES
* SHRUBS - ADD/ALTS #5				
CS	6	<i>Cornus sericea</i> 'Kelsey' RED-TWIG DOGWOOD	#5	48" O.C.
HQ	2	<i>Hydrangea quercifolia</i> 'Ruby Slippers' OAK LEAF HYDRANGEA	#7	48" O.C.
IG	6	<i>Ilex glabra</i> 'Nigra' INKBERRY	#3	48" O.C.

SEEDING LEGEND

- BIO-SWALE SEED MIX (ERNST RETENTION BASIN MIX - LOW MAINTENANCE)
- BIO-RETENTION SEED MIX (ERNST BIO-RETENTION WILDLIFE MIX)
- ALLENS RHODE ISLAND STATE WILDFLOWER SEED MIX
- LAWN/DISTURBED AREAS (ALLEN'S ENDOPHYTE ENHANCED MIX)
- MULCH RING AROUND TREE
- TREE AND SHRUB ADD ALTERNATES



**PROVIDENCE
PARKS DEPARTMENT**
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



**Providence
Parks**

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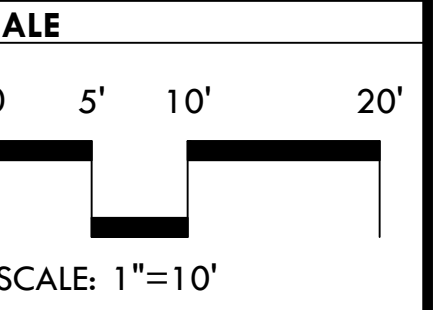
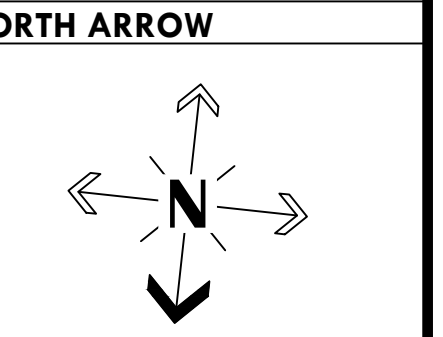
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PROJECT:
**Site Improvements at
Cabral Park**
**515 Wickenden Street
Providence, RI**

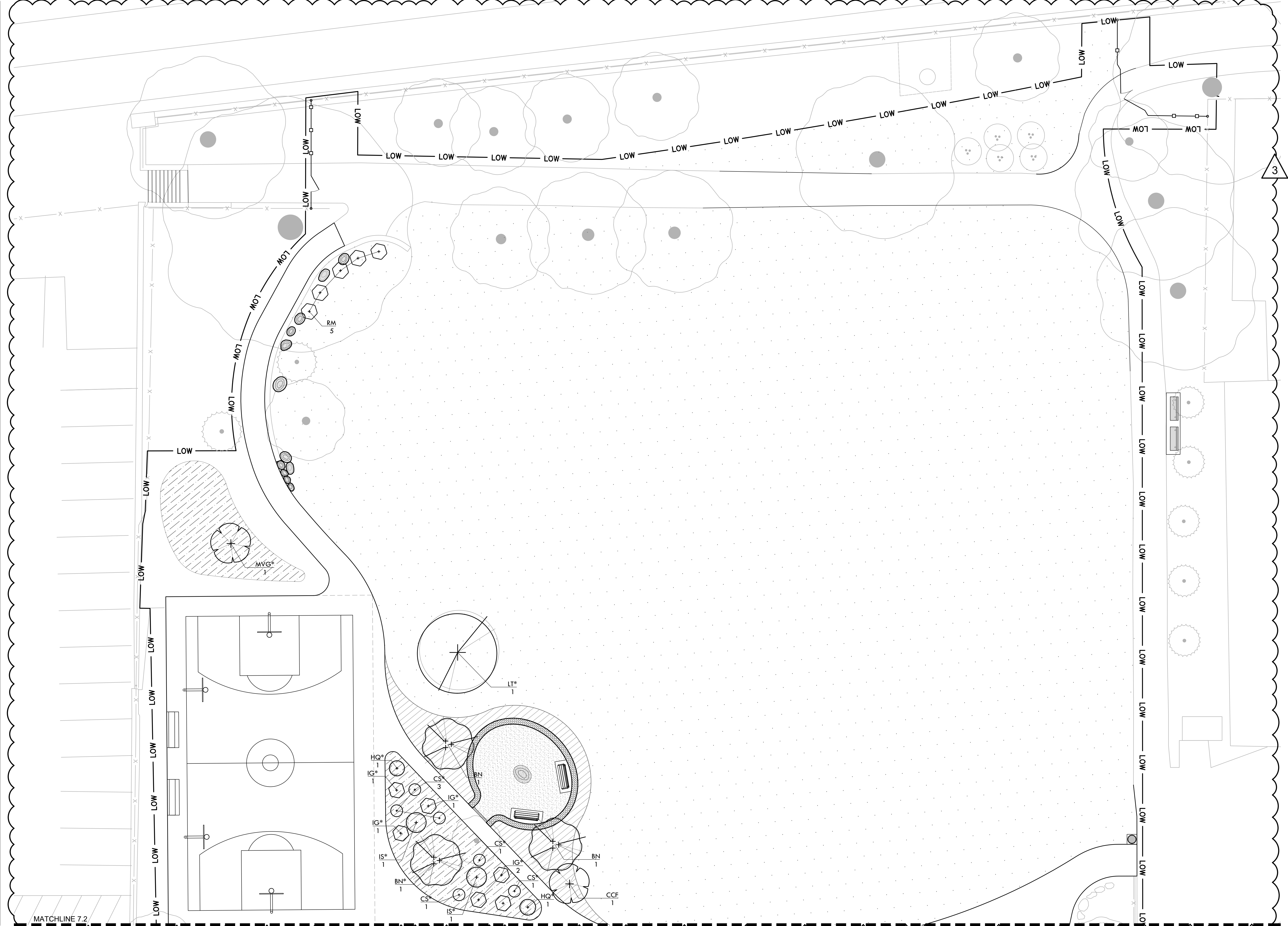
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1	02/27/26	ADDENDUM #3
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-	-	-



DRAWING INFO
DATE ISSUED: 01/28/2026
PROJECT NO: CPPG.23.01
DRAWN BY: NC/SG
CHECKED BY: MG
SHEET TITLE
Planting Plan

L-7.2
12 OF 23

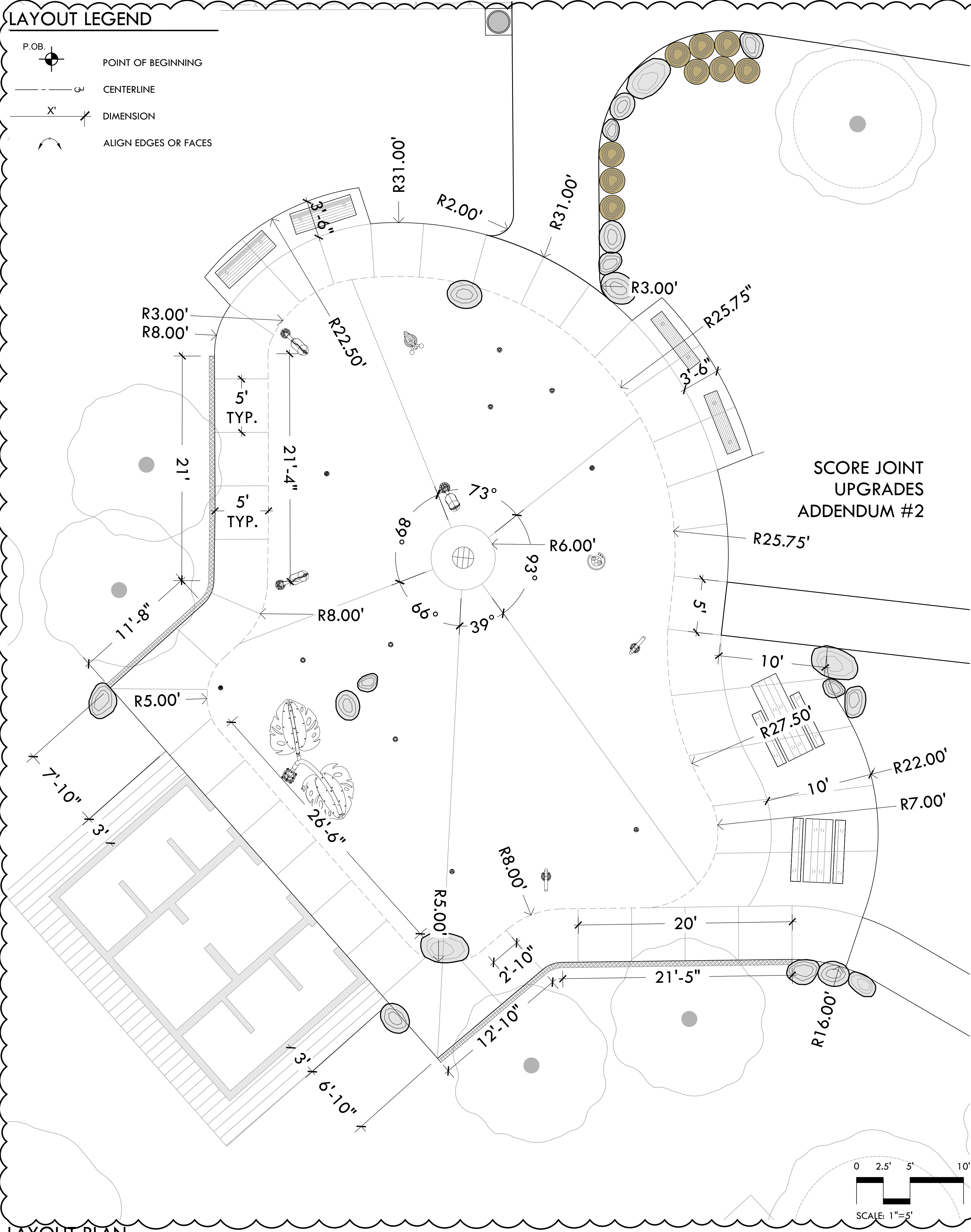


MATCHLINE 7.2
SEE SHEET L-7.1

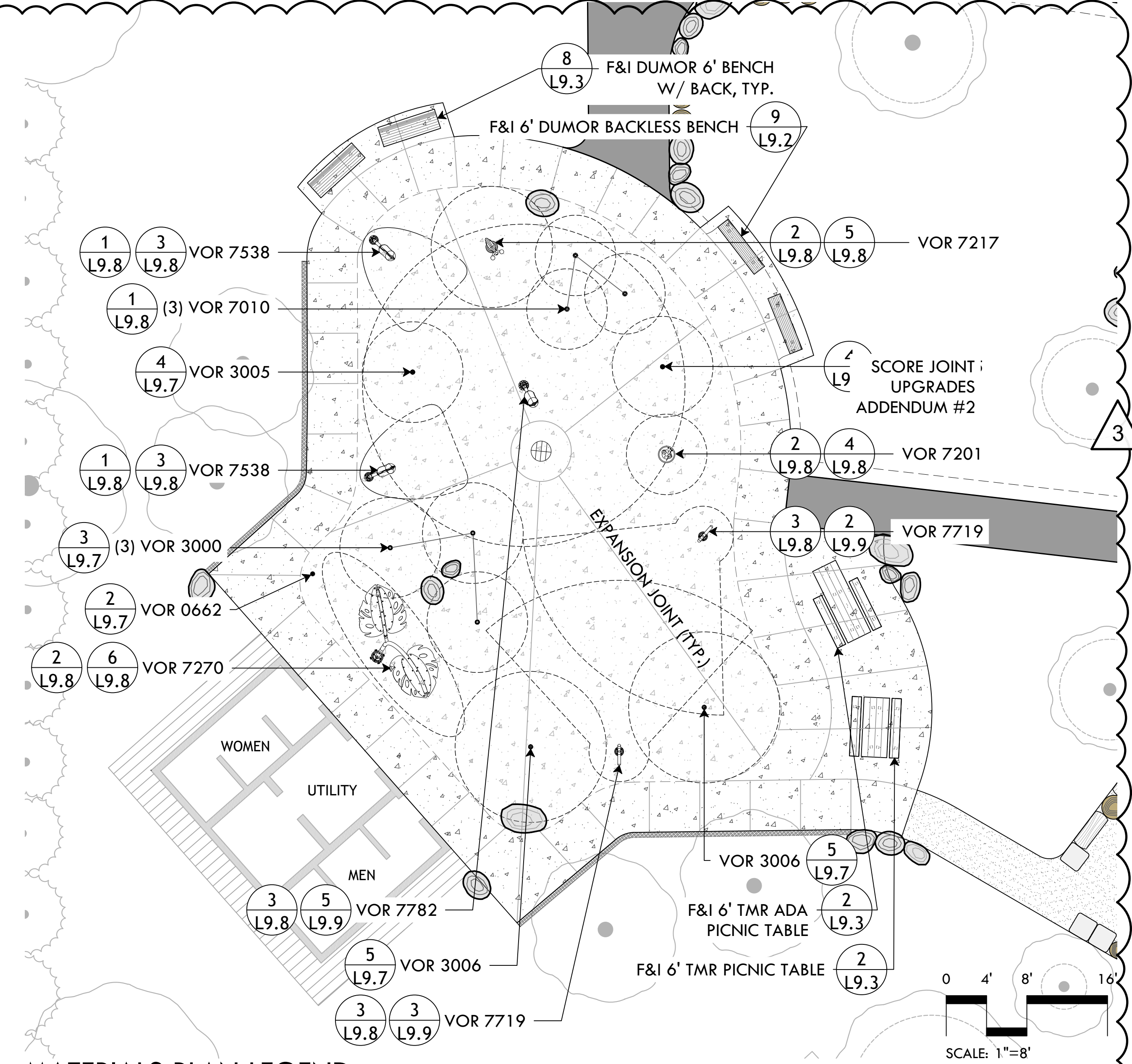
FILE: CABR23.01-PLANS.dwg

LAYOUT LEGEND

- P.O.B. POINT OF BEGINNING
- CENTERLINE
- DIMENSION
- ALIGN EDGES OR FACES

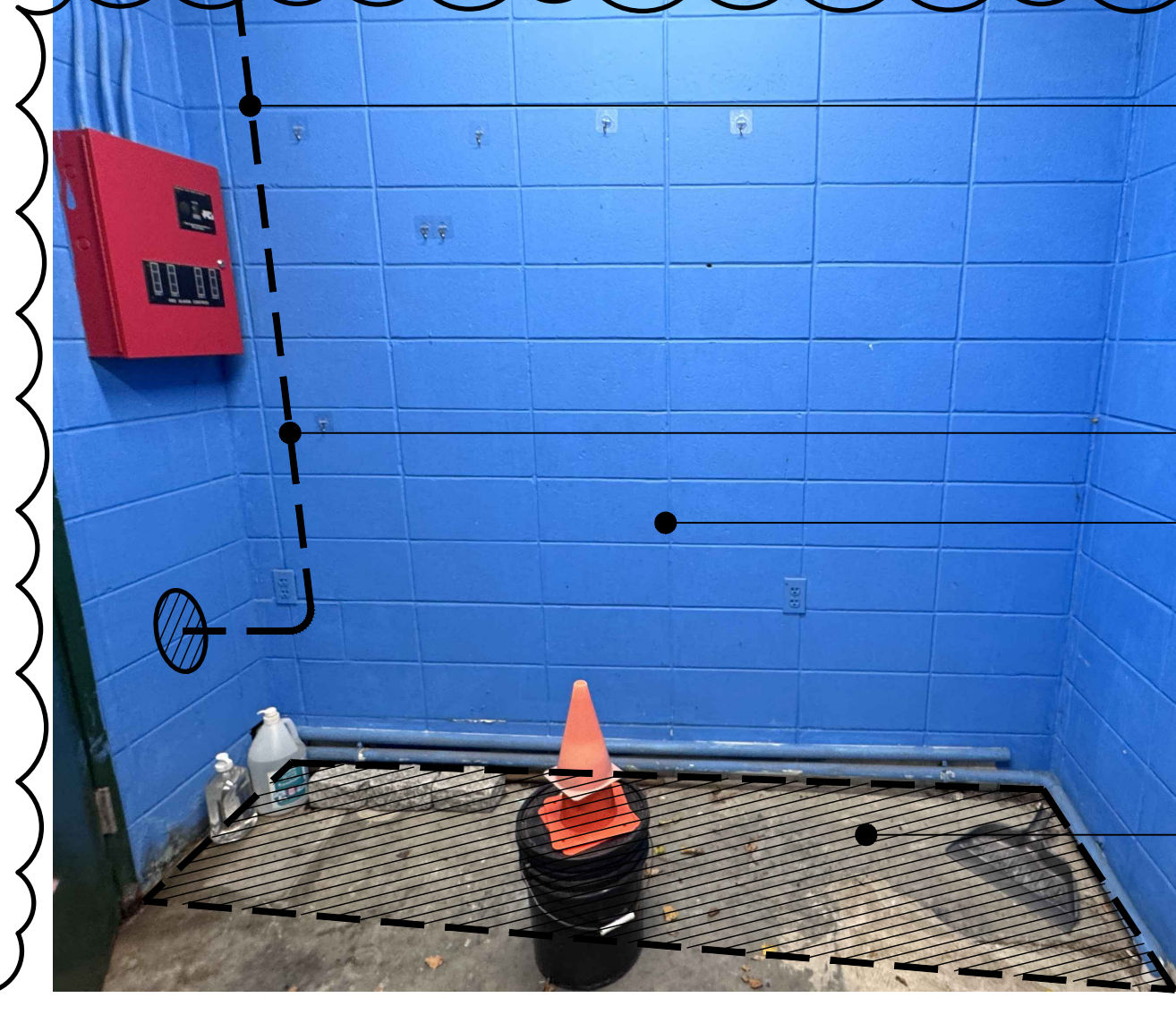


SCORE JOINT UPGRADES ADDENDUM #2

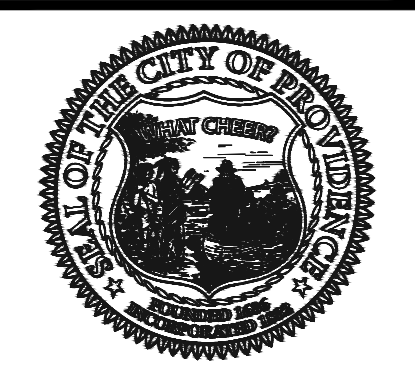


MATERIALS PLAN LEGEND

- | | | | | | | |
|--|-------|----------------------------------|--|--|--|--|
| | LOW | LIMIT OF WORK | | ADD ALT #1
EX. AGGREGATE CONCRETE PAVING | | ROUNDED, NATIVE BOULDERS |
| | X | 4'H CHAIN LINK (CL) MESH | | SALVAGED JUMBO COBBLE PAVING
EDGE | | 6' BENCH W/ BACK, IN-GROUND MOUNT |
| | - - - | ROLL-DOWN CURB / HAUNCH | | STABILIZED STONEDUST PATH | | 6' BACKLESS BENCH, IN-GROUND MOUNT |
| | - | 12' W BLACK CLF GATE | | SYNLAWN SURFACING | | VESTRE BENCH W/ HIGH BACK AND ARMRESTS |
| | - | LIMITS OF FENCE/WALL WORK | | EWF MULCH (12" IN USE ZONES, 6" IN OTHER AREAS) | | BENCH ON 4" CONCRETE PAD |
| | - | EX. BOULDERS TO REMAIN | | FLUSH GRANITE CURB | | 6' PICNIC TABLE AND ADA PICNIC TABLE TMR |
| | - | 3" ASPHALT PAVING | | EXISTING CONCRETE CURB TO REMAIN | | GRANITE BLOCK SEAT |
| | - | 4" POURED CONCRETE, BROOM FINISH | | 55 GAL TRASH RECEPTACLE, SURFACE MOUNT ON CONCRETE PAD | | 4' L AND 6' LONG WOOD LOG BENCH |
| | | | | | | LOG SEAT/STEPPERS, DIA. VARIES. |



- CONNECT 2" SPLASHPAD PIPING FROM REAR TO FRONT ROOM
- F&I BOILER DRAIN VALVE BEFORE NEW VORTEX MANIFOLD
- LOCATE VORTEX CONTROLLER, PIPES AND VALVES ON THIS WALL
- F&I 3/4" CRUSHED STONE AT BASE OF NEW PIPING FLUSH WITH CONCRETE



PROVIDENCE PARKS DEPARTMENT
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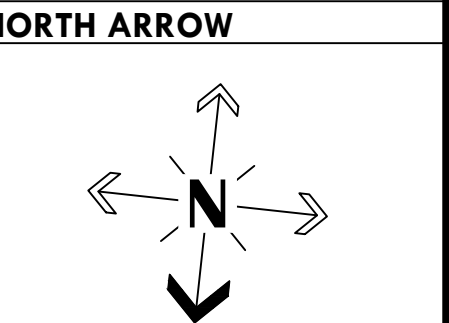
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Site Improvements at Cabral Park
515 Wickenden Street
Providence, RI

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SCALE

DRAWING INFO
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SHEET TITLE
Splash Pad Enlargement



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REVISIONS:

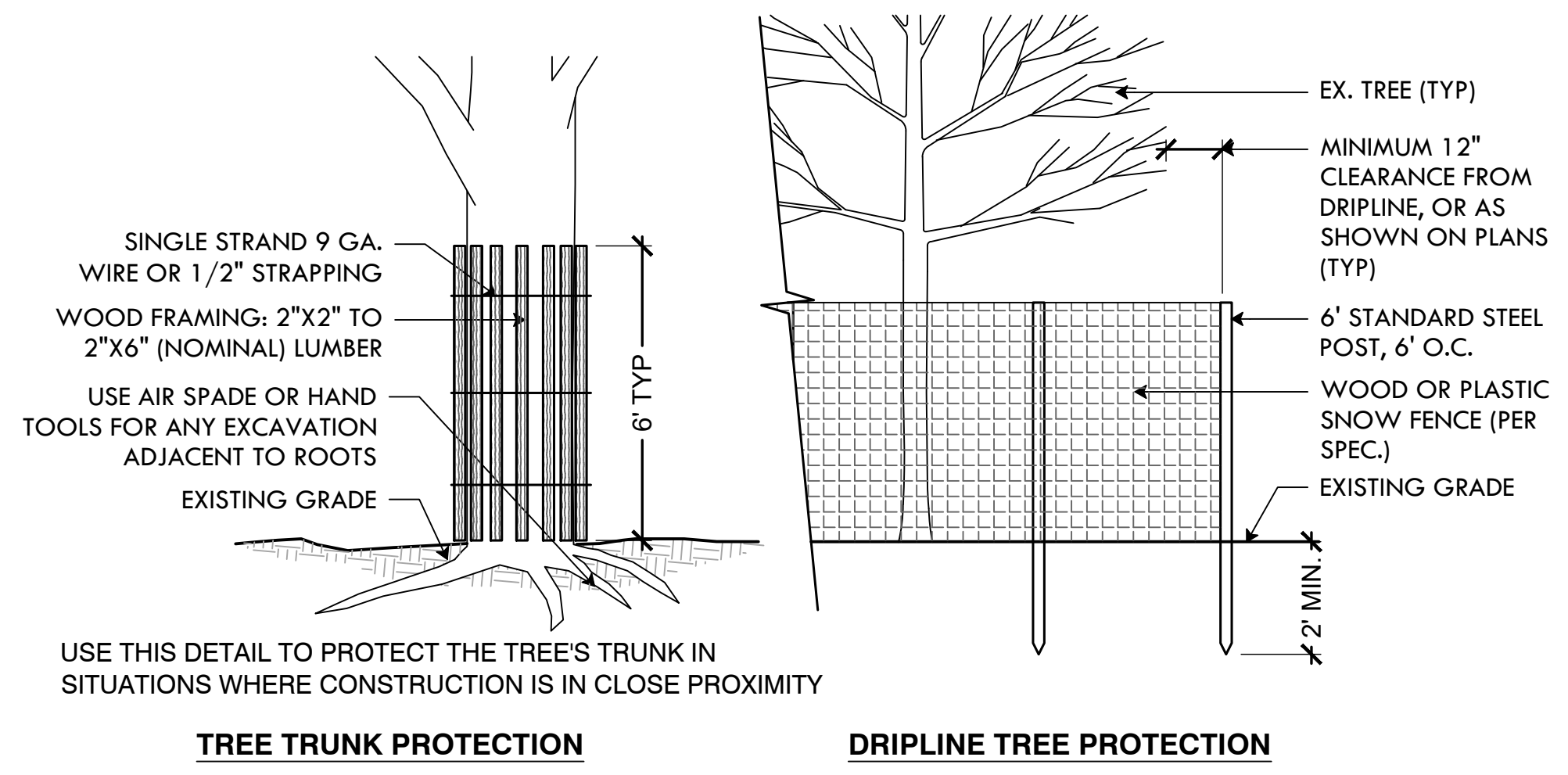
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NORTH ARROW

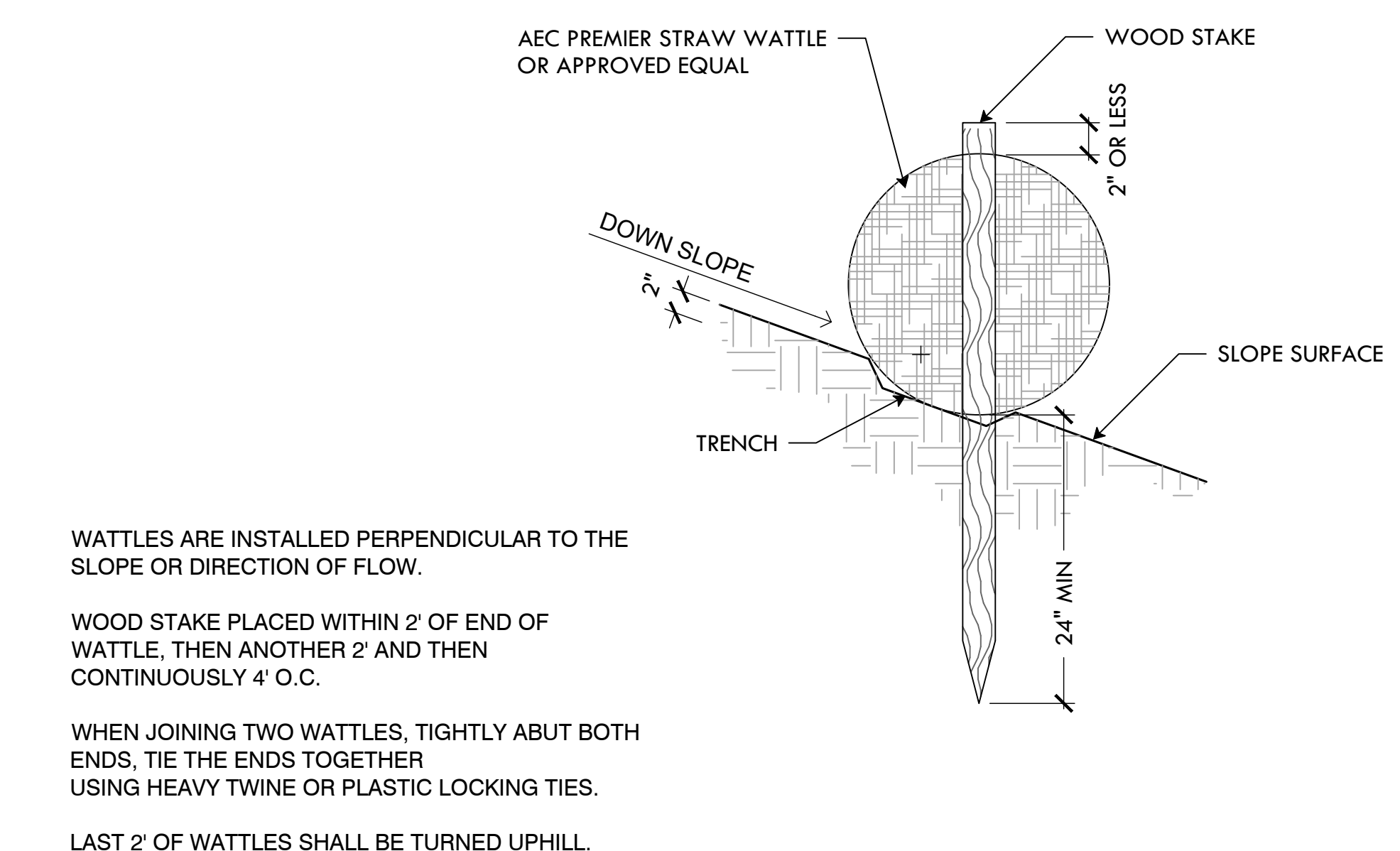
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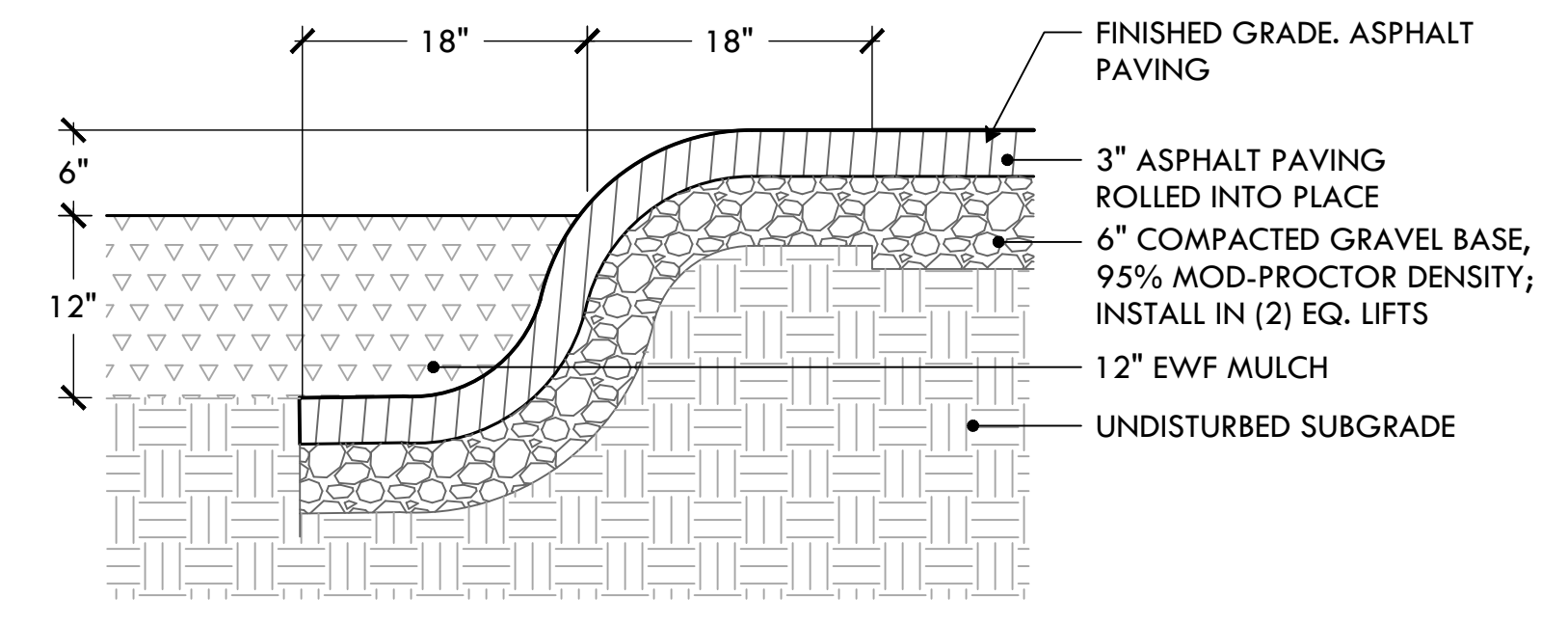
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Construction Details



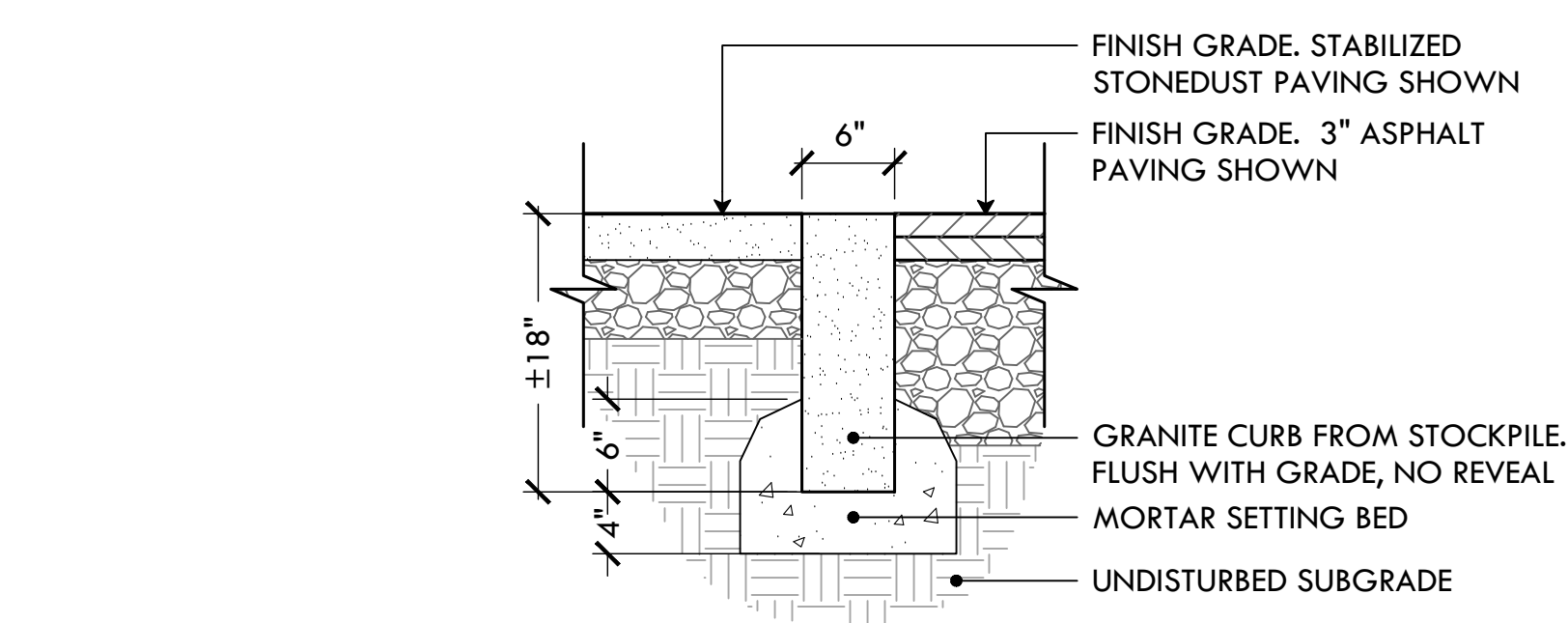
1 TREE PROTECTION FENCING PROVIDED BY OTHERS. MAINTAINED BY CONTRACTOR NOT TO SCALE



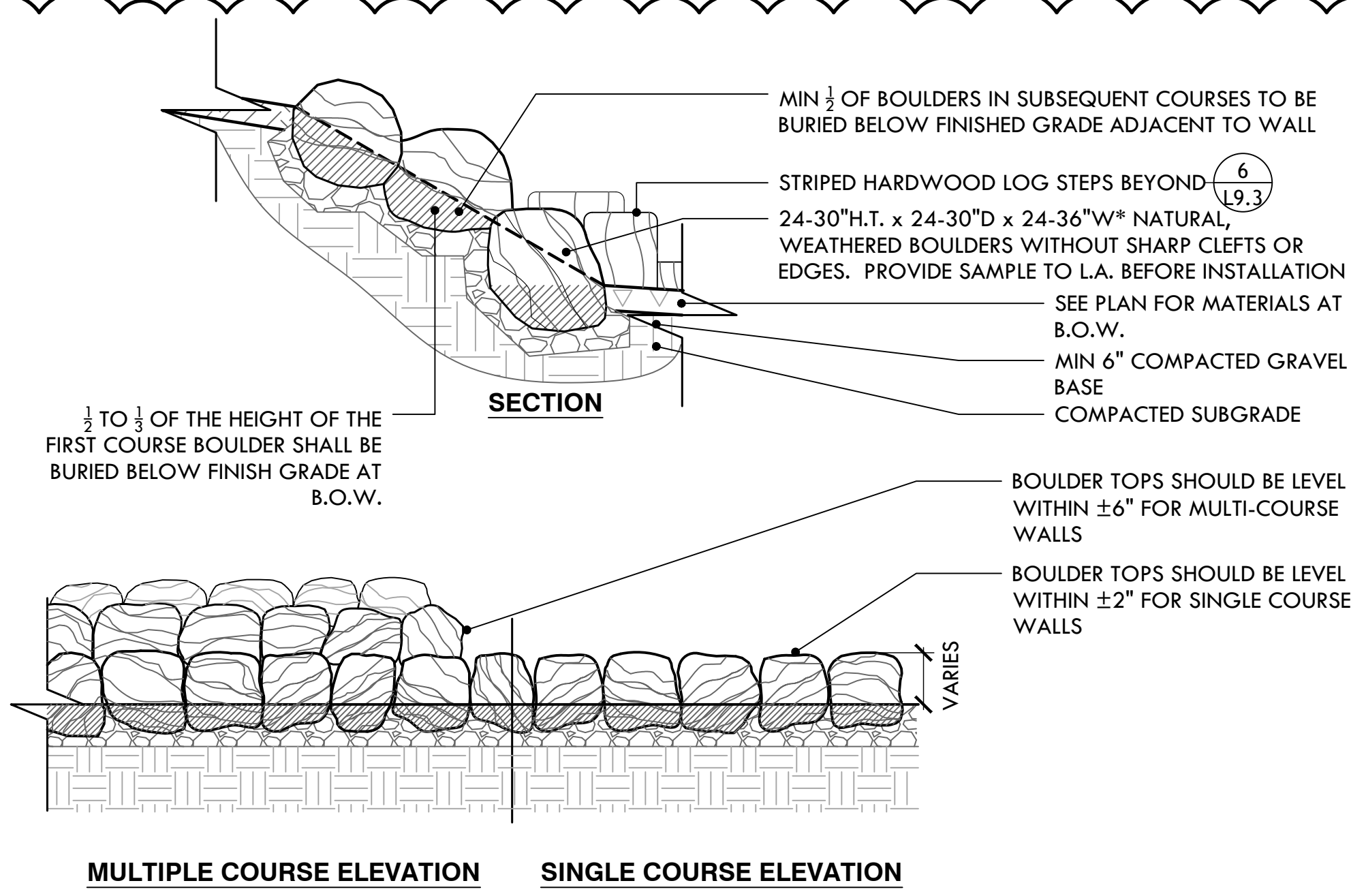
2 STRAW WATTLE NOT TO SCALE



3 ASPHALT ROLL DOWN CURB NOT TO SCALE



4 FLUSH GRANITE CURB NOT TO SCALE



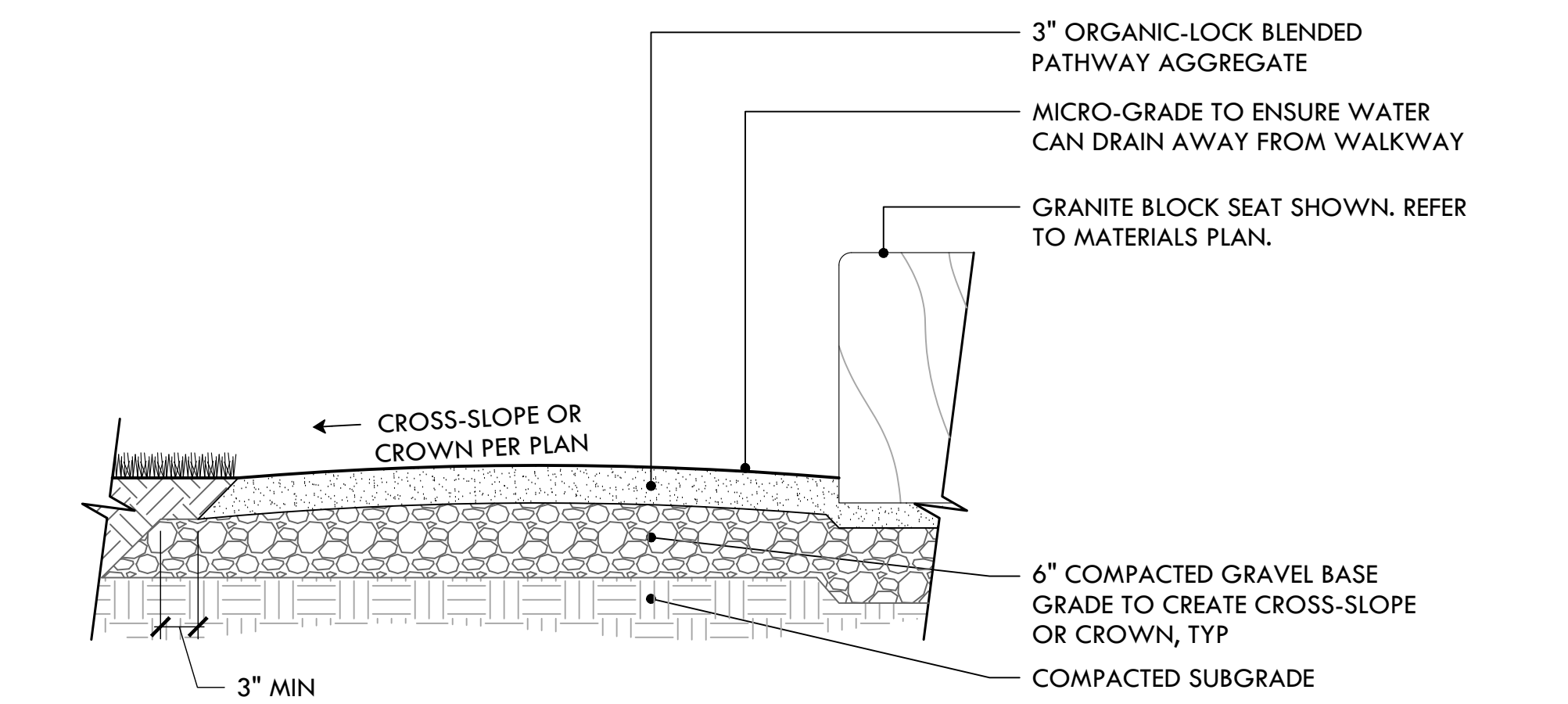
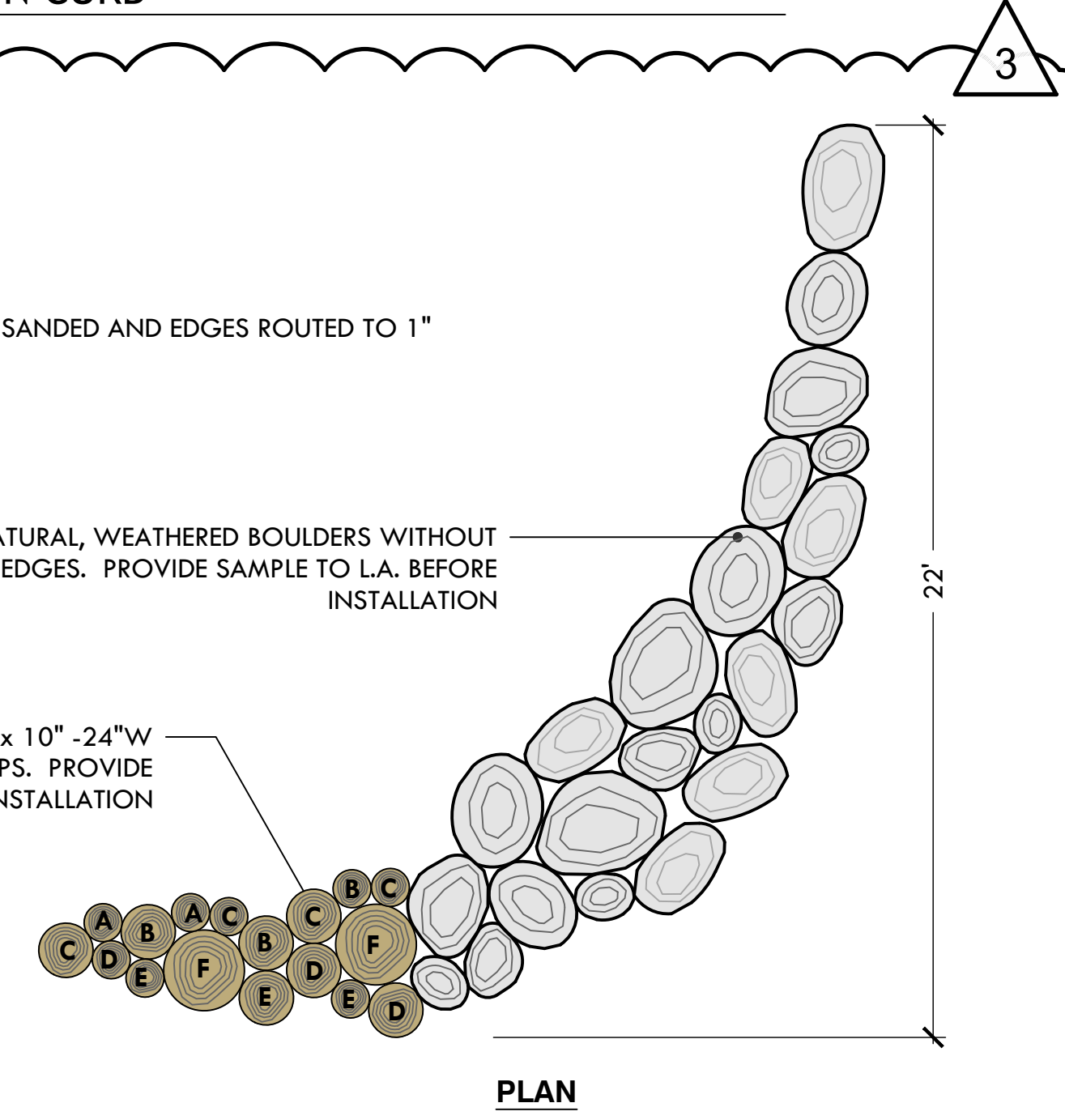
5 LOG & BOULDER SCRAMBLE NOT TO SCALE

NOTE:
 T. LOGS TO BE STRIPPED, SANDED AND EDGES ROUTED TO 1"

24-30"H.T. x 24-36"W NATURAL, WEATHERED BOULDERS WITHOUT SHARP CLEFTS OR EDGES. PROVIDE SAMPLE TO L.A. BEFORE INSTALLATION

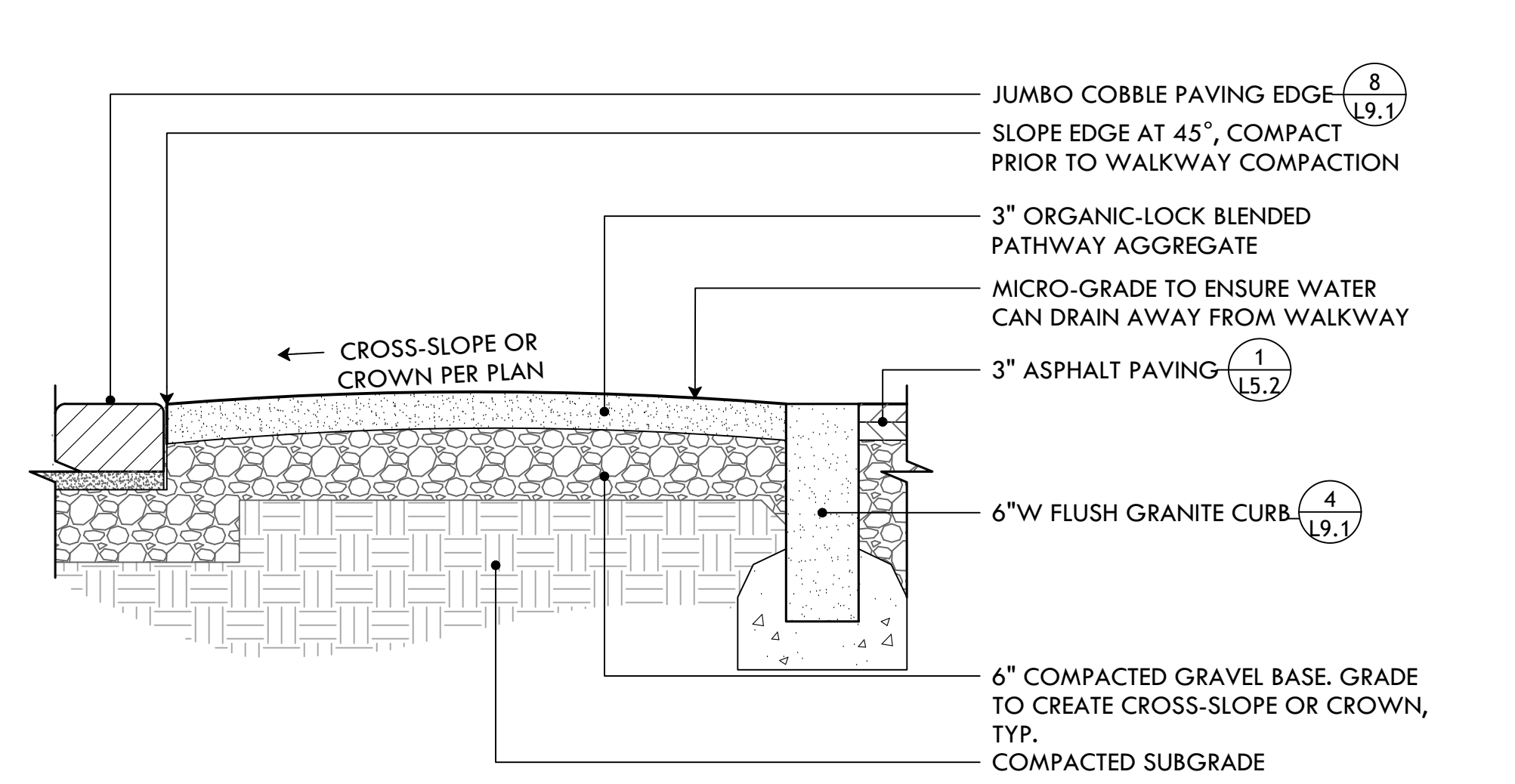
3" - 18" H.T. x 10" - 24"W HARDWOOD LOG STEPS. PROVIDE SAMPLE TO L.A. BEFORE INSTALLATION

LEGEND	ELEVATION
A	+3"
B	+6"
C	+9"
D	+12"
E	+15"
F	+18"



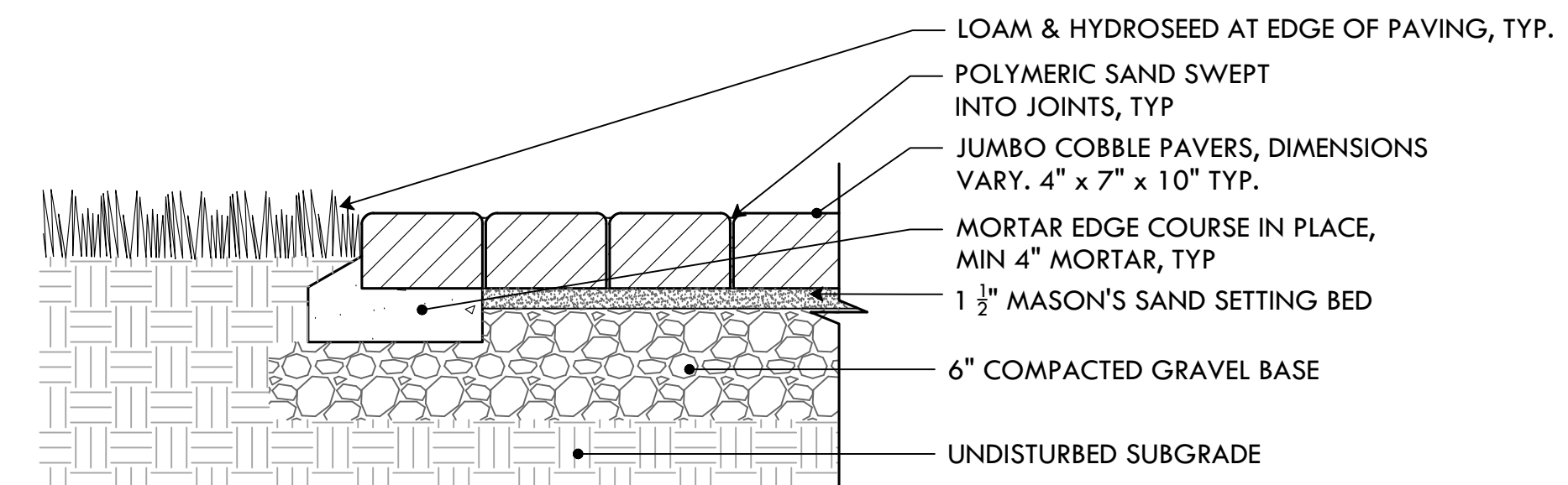
INSTALLATION NOTES:
 1. PRE-WET ORGANIC-LOCK AGGREGATE BLEND IS THE PREFERRED METHOD OF INSTALLATION, THIS ENSURES THAT ORGANIC-LOCK BINDER IS HOMOGENEOUSLY ACTIVATED BY WATER. IF PRE-WETTING IS NOT DONE AT THE QUARRY, THE USE OF A FRONT-LOADING TRACTOR AND A WATER SOURCE CAN PRE-WET ORGANIC-LOCK PATHWAY AGGREGATE ON THE JOB SITE. SLOWLY ADD WATER TO THE ORGANIC-LOCK PATHWAY AGGREGATE AND TURN IT OVER UNTIL ~10% MOISTURE CONTENT (24 GALLONS PER IMPERIAL TON) IS ACHIEVED.
 2. PRE-INSTALLATION CONFERENCE WITH VENDOR REQUIRED PRIOR TO INSTALLATION.

6 STABILIZED STONEDUST PAVING NOT TO SCALE



INSTALLATION NOTES:
 1. PRE-WET ORGANIC-LOCK AGGREGATE BLEND IS THE PREFERRED METHOD OF INSTALLATION, THIS ENSURES THAT ORGANIC-LOCK BINDER IS HOMOGENEOUSLY ACTIVATED BY WATER. IF PRE-WETTING IS NOT DONE AT THE QUARRY, THE USE OF A FRONT-LOADING TRACTOR AND A WATER SOURCE CAN PRE-WET ORGANIC-LOCK PATHWAY AGGREGATE ON THE JOB SITE. SLOWLY ADD WATER TO THE ORGANIC-LOCK PATHWAY AGGREGATE AND TURN IT OVER UNTIL ~10% MOISTURE CONTENT (24 GALLONS PER IMPERIAL TON) IS ACHIEVED.

7 STABILIZED STONEDUST PAVING W/ JUMBO COBBLE PAVING EDGE NOT TO SCALE



8 18" JUMBO COBBLE PAVING EDGE NOT TO SCALE



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Site Improvements at
 Cabral Park

515 Wickenden Street
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NORTH ARROW

SCALE

DRAWING INFO

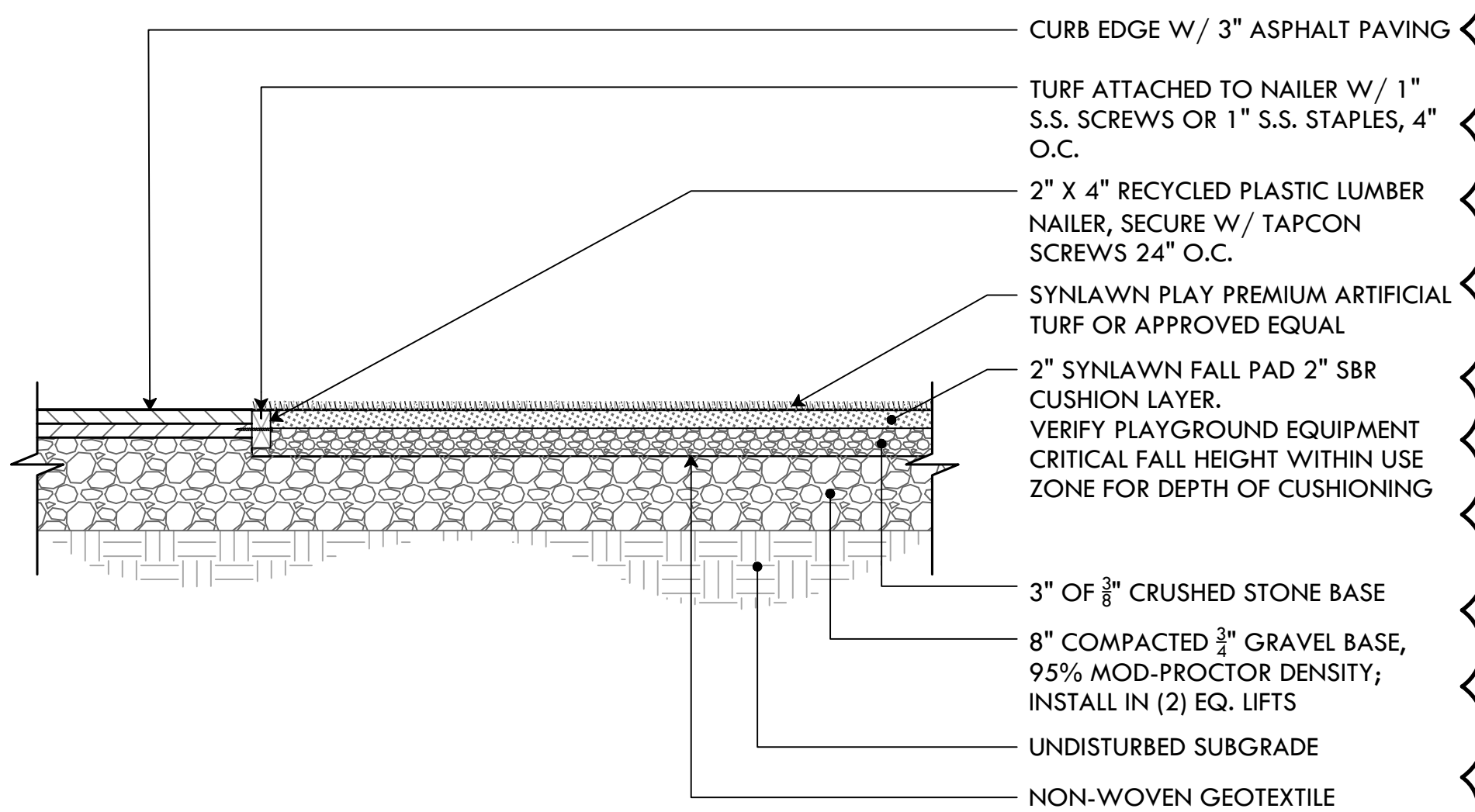
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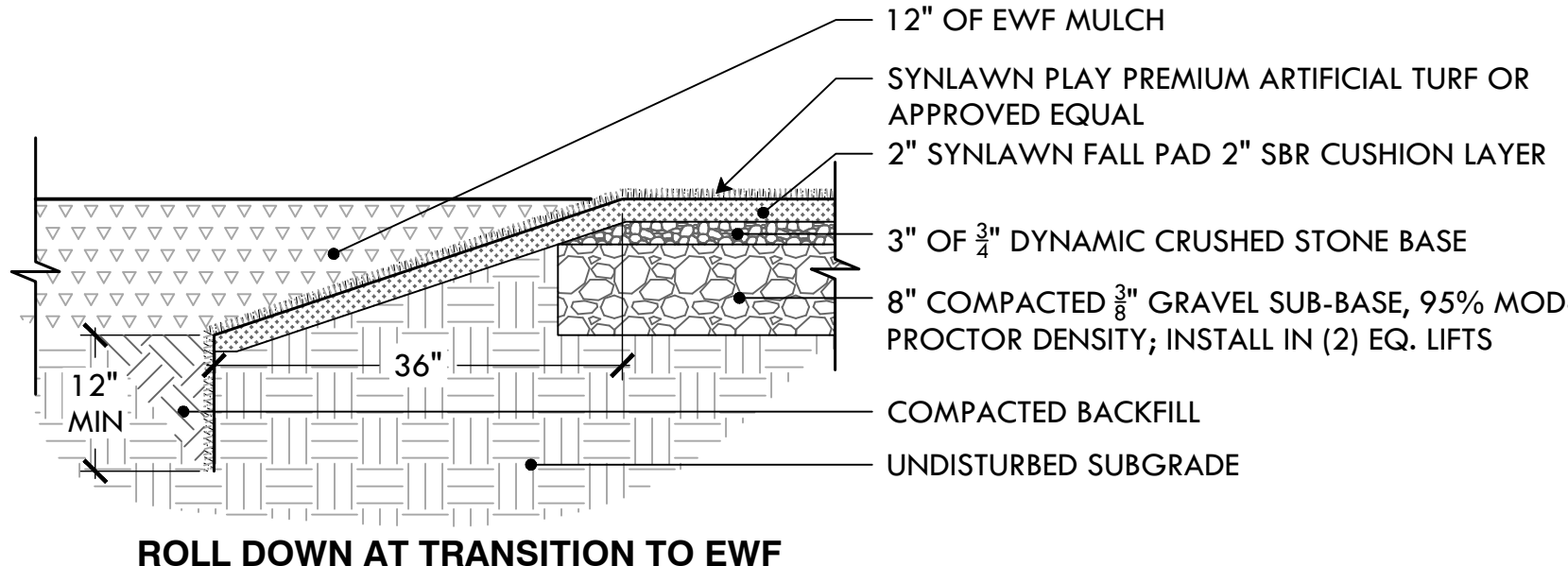
Construction
Details

L-9.2

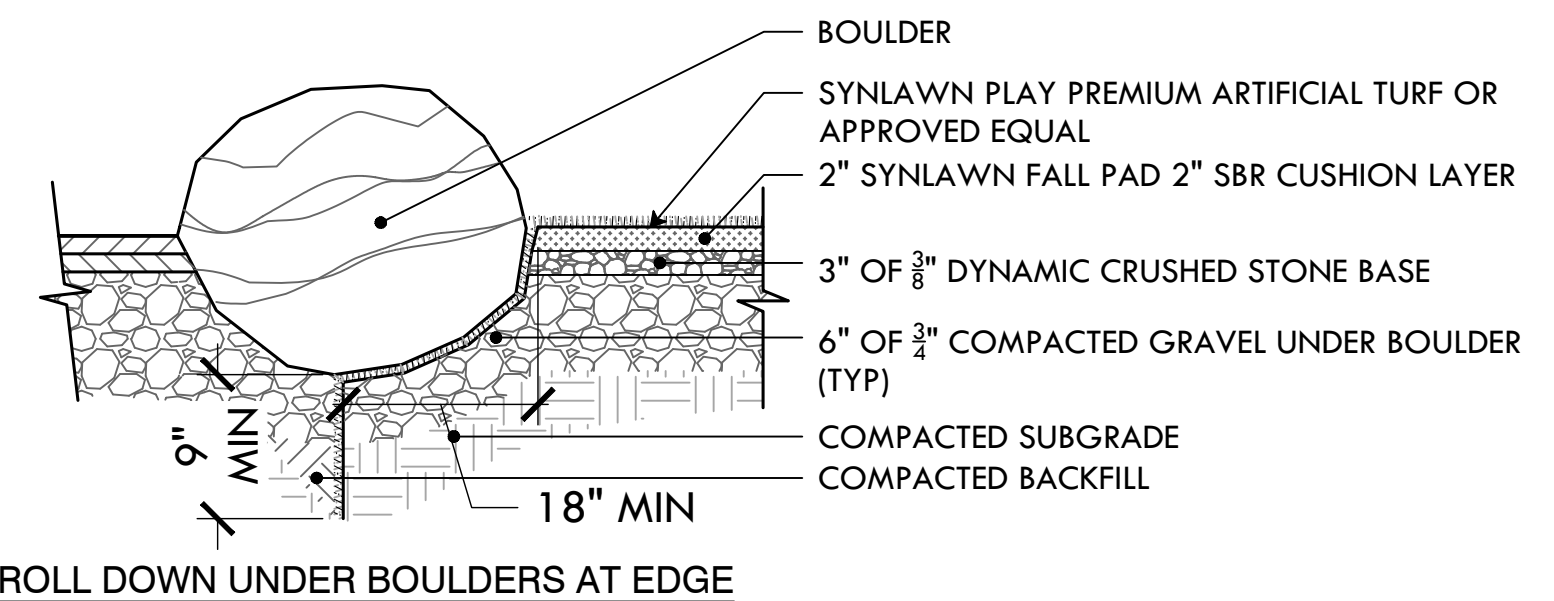
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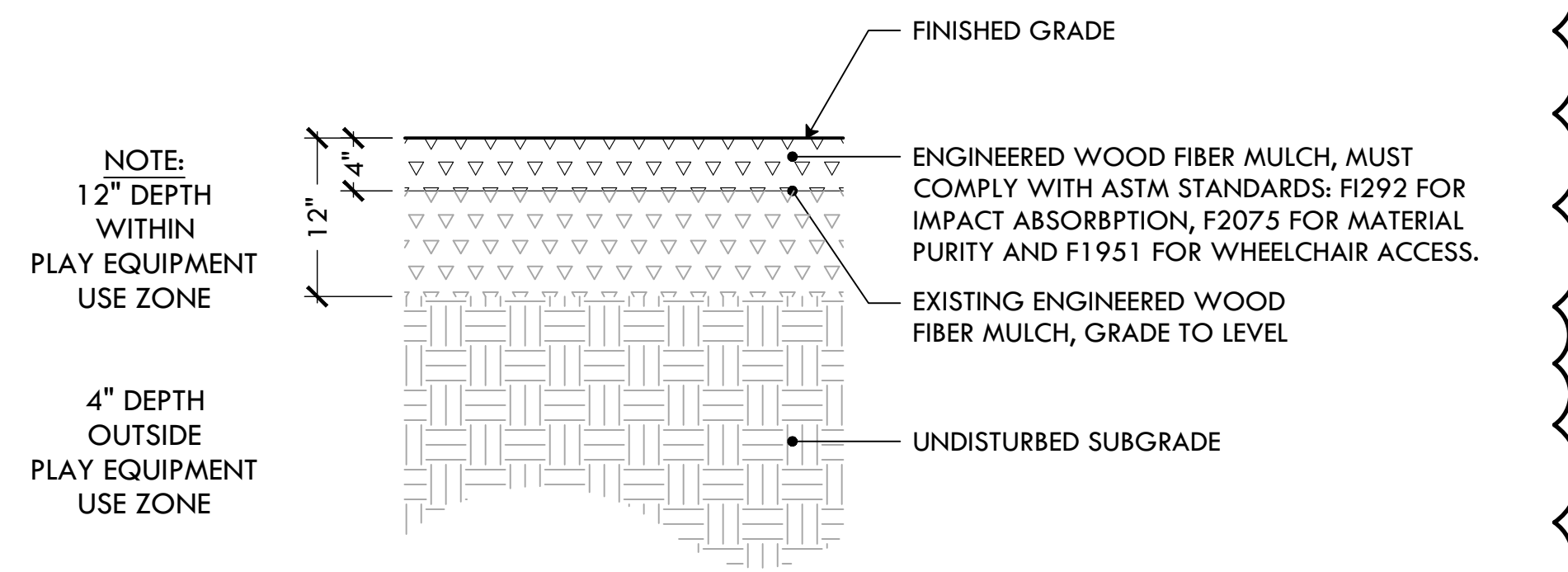
1 SYNLAWN PLAYGROUND SURFACING
 NOT TO SCALE



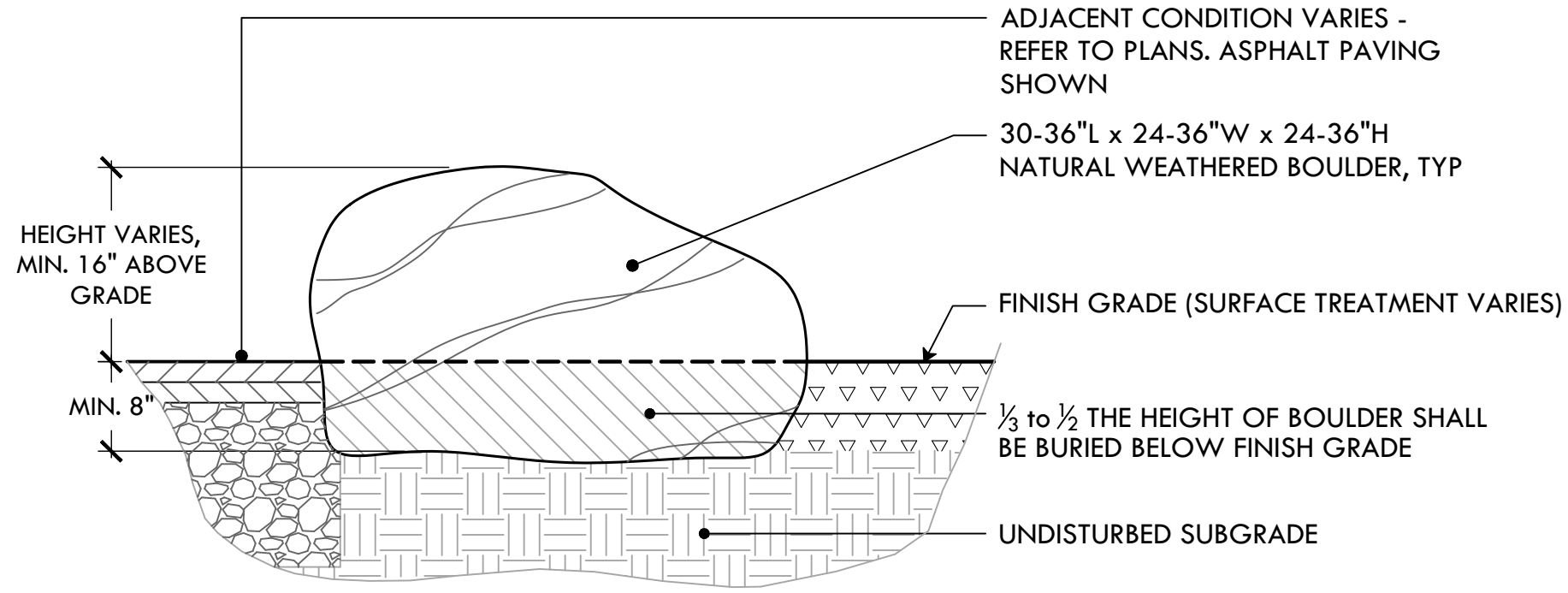
2 SYNLAWN ROLL DOWN EDGE
 NOT TO SCALE



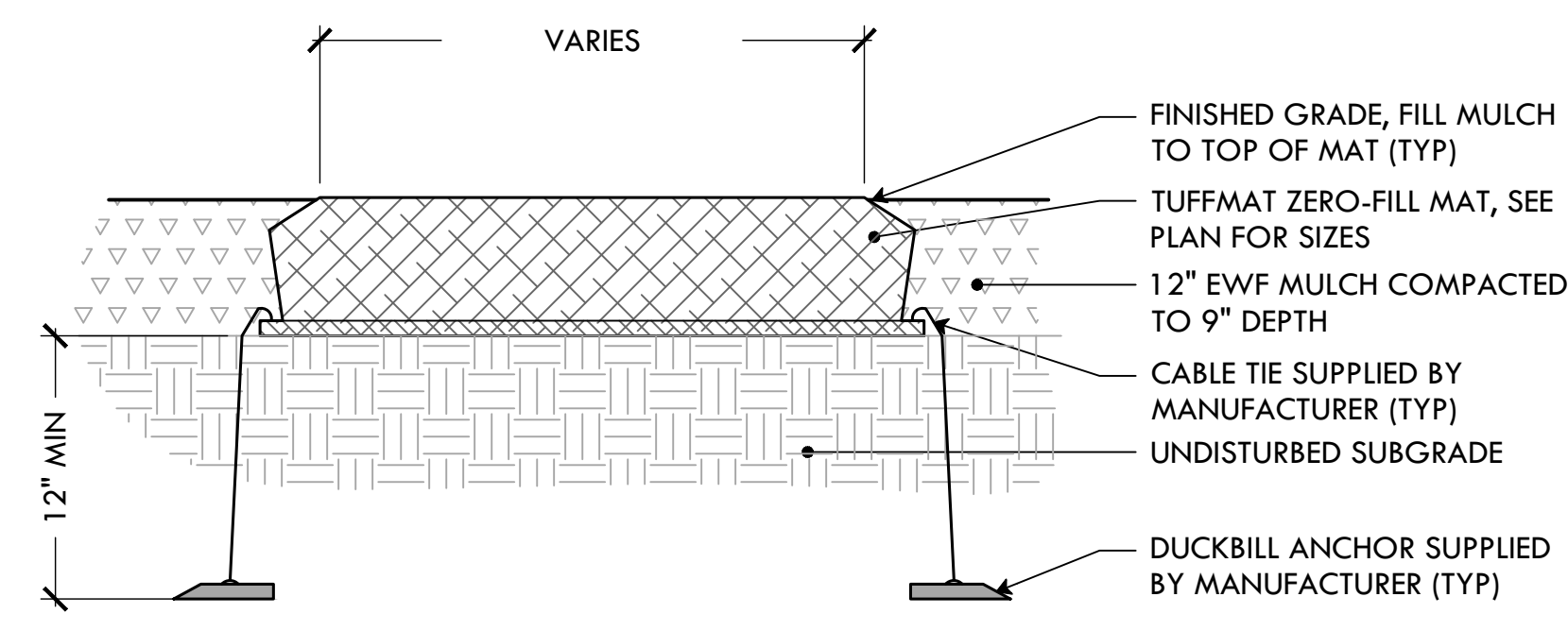
3 BOULDERS IN SYNLAWN
 NOT TO SCALE



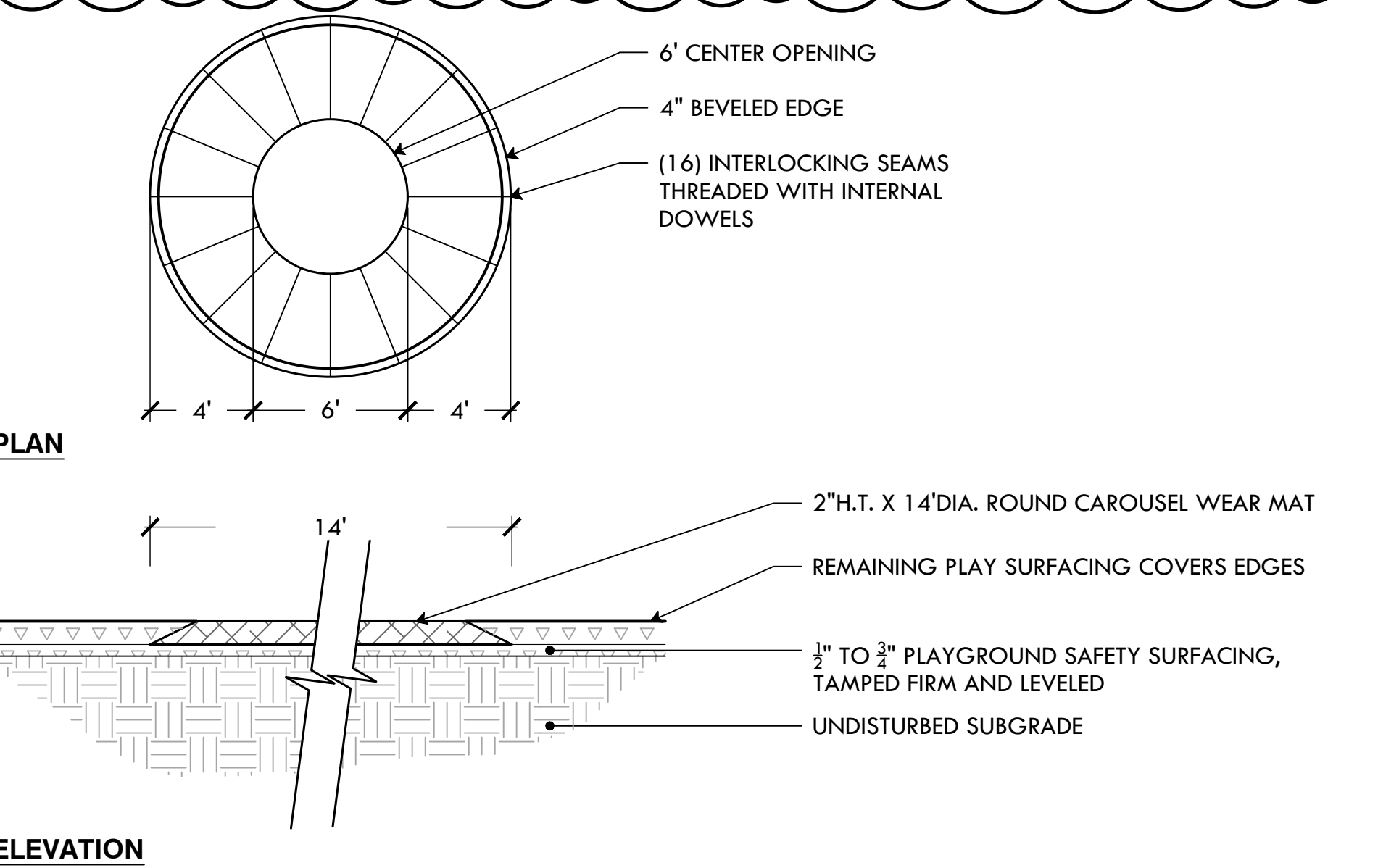
4 EWF PLAYGROUND SURFACING
 NOT TO SCALE



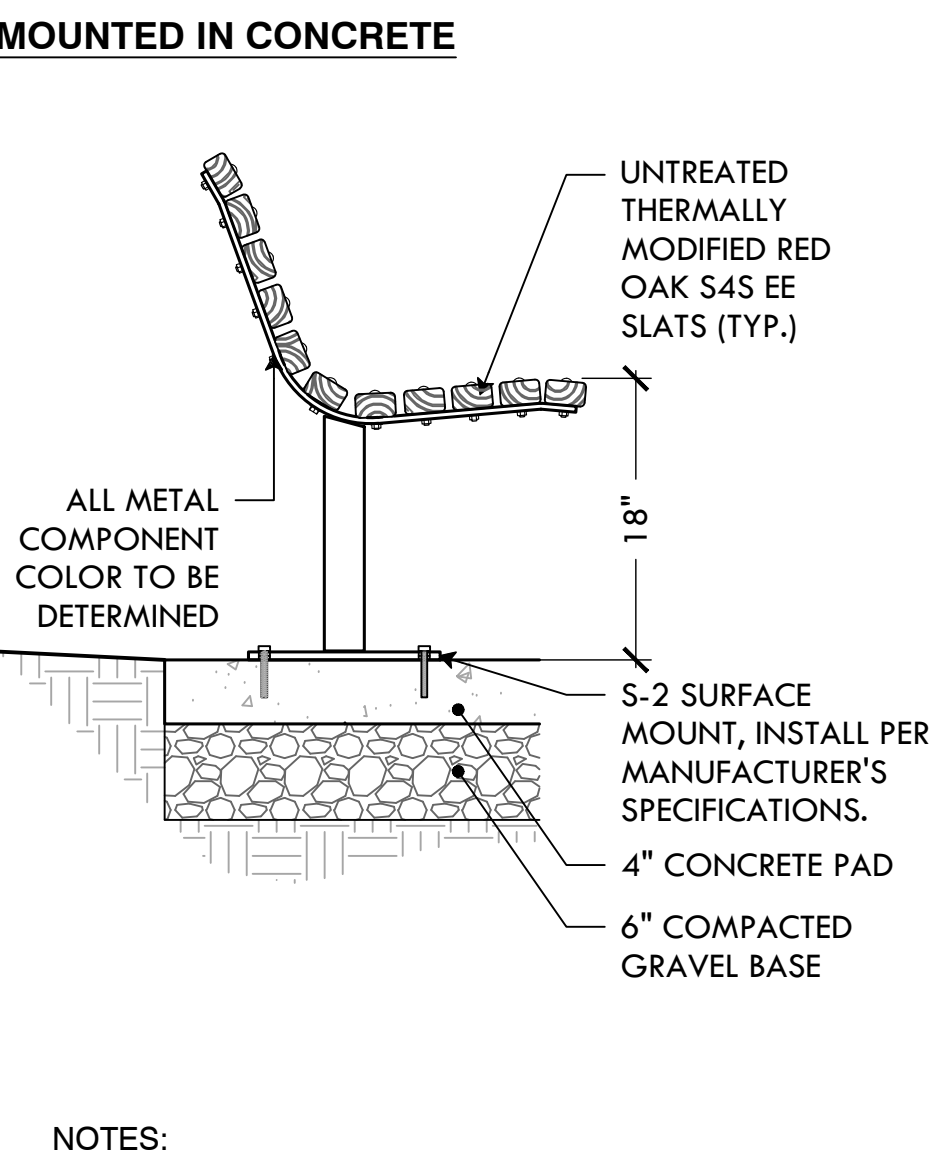
5 BOULDER IN EWF
 NOT TO SCALE



6 APS SWING WEAR MAT
 NOT TO SCALE

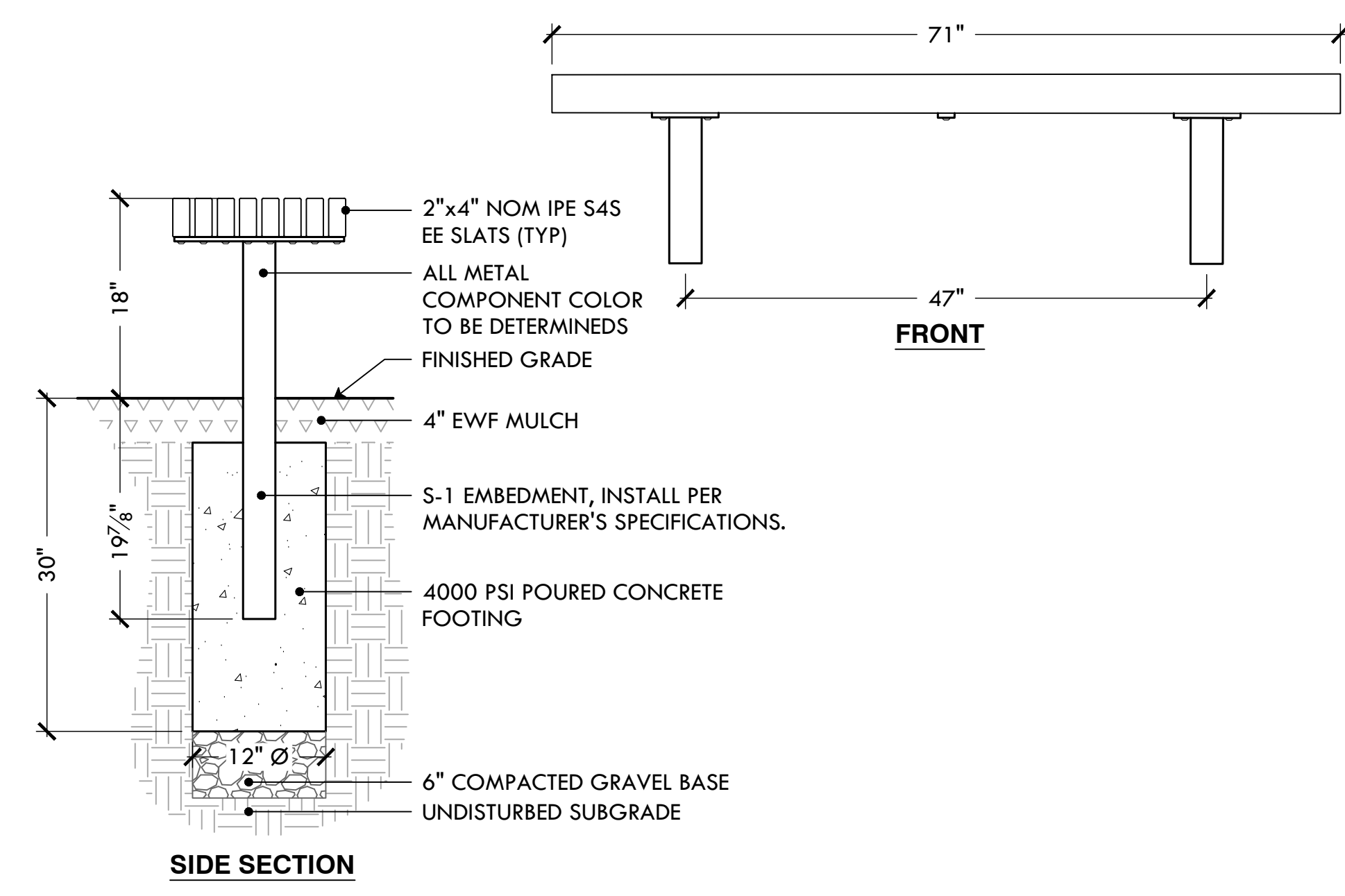


7 APS CAROUSEL WEAR MAT
 NOT TO SCALE

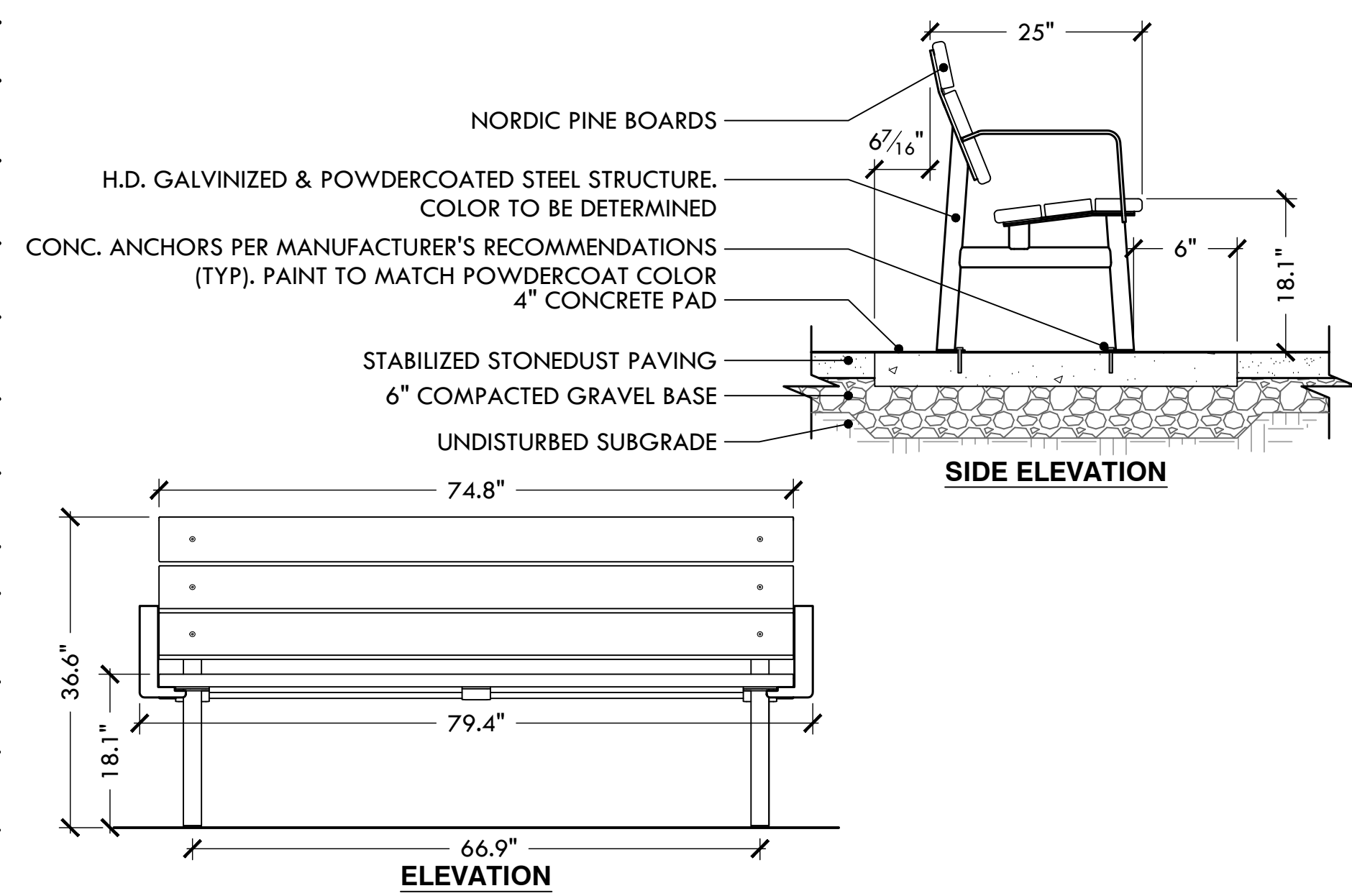


NOTES:
 1. SEE PLAN FOR PLACEMENT OF BACKED AND BACKLESS BENCH MODELS.

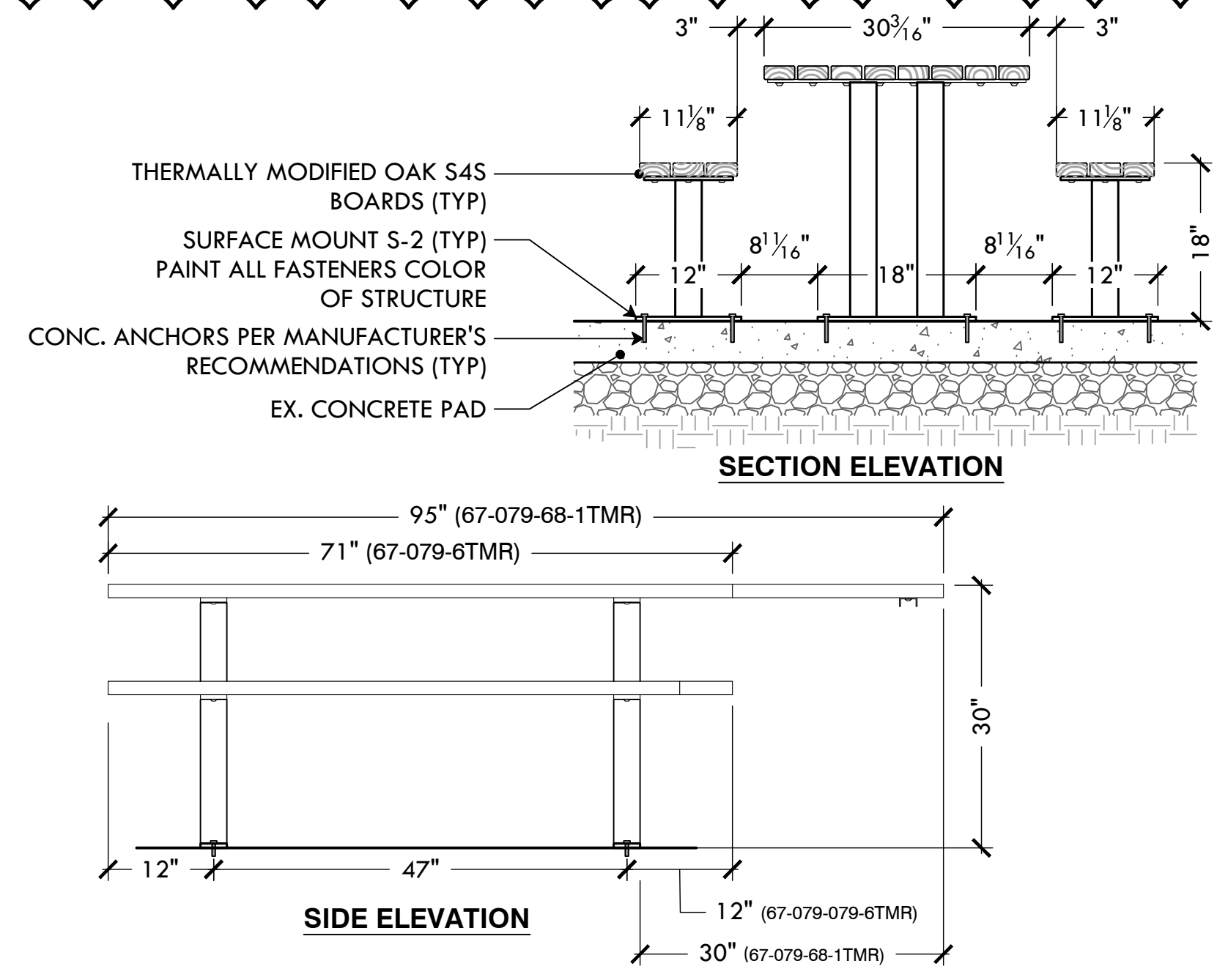
8 6' DUMOR BENCH TMR
 NOT TO SCALE



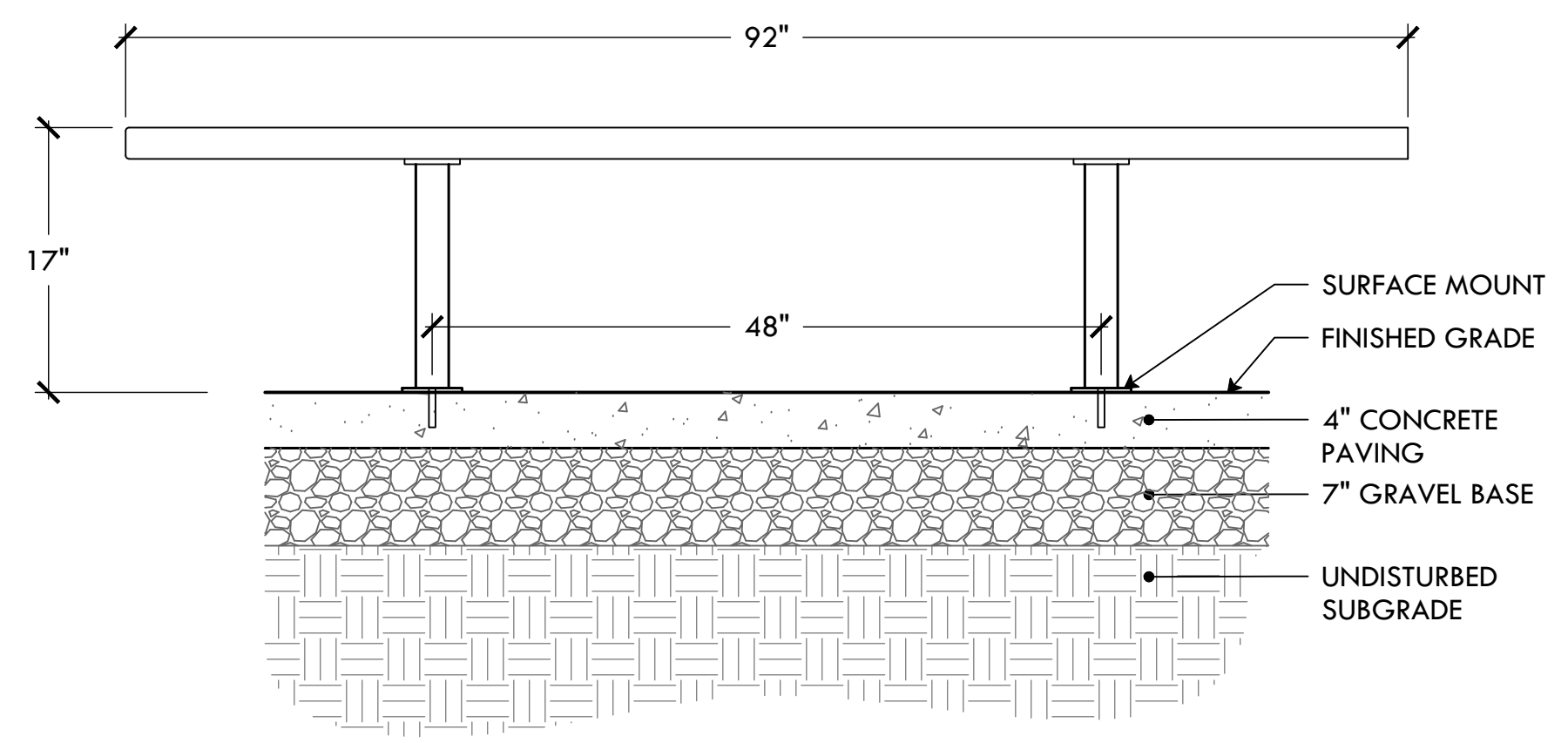
9 6' DUMOR BACKLESS BENCH
 NOT TO SCALE



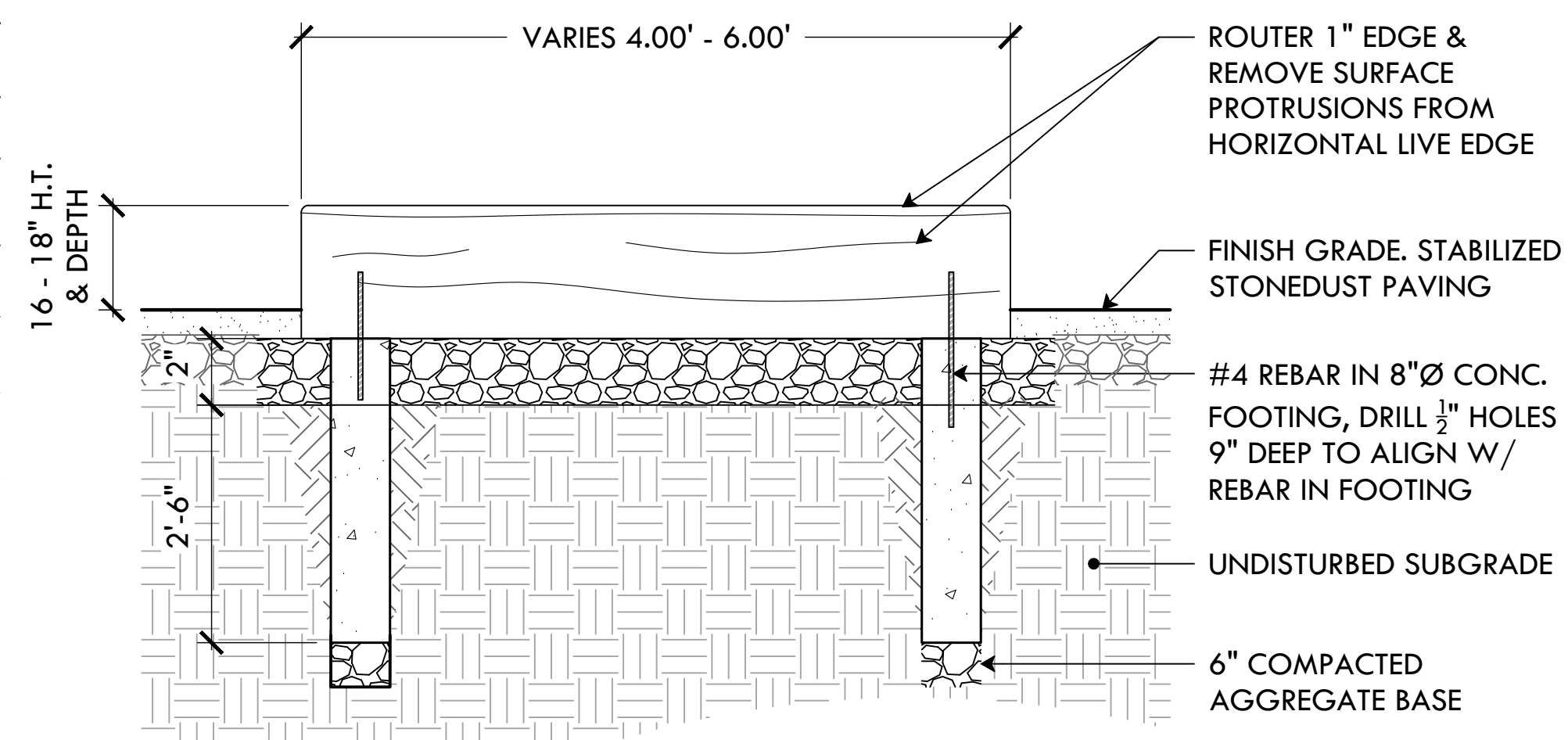
1 VESTRE JUNE BENCH W/ HIGH BACK AND ARMRESTS
NOT TO SCALE



2 6' DUMOR PICNIC TABLE AND ADA PICNIC TABLE TMR
NOT TO SCALE

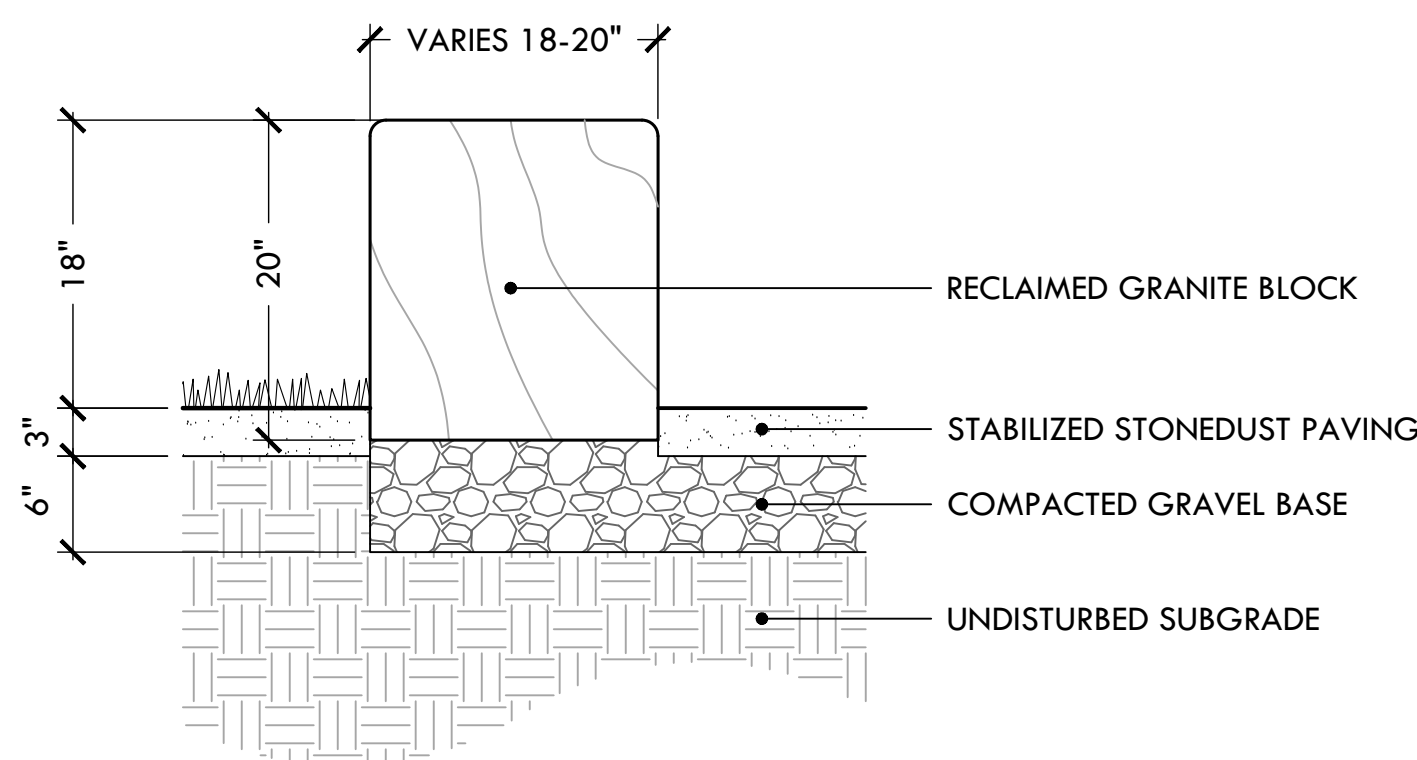


3 LSI TENDERTUFF BENCH - #141683F
NOT TO SCALE

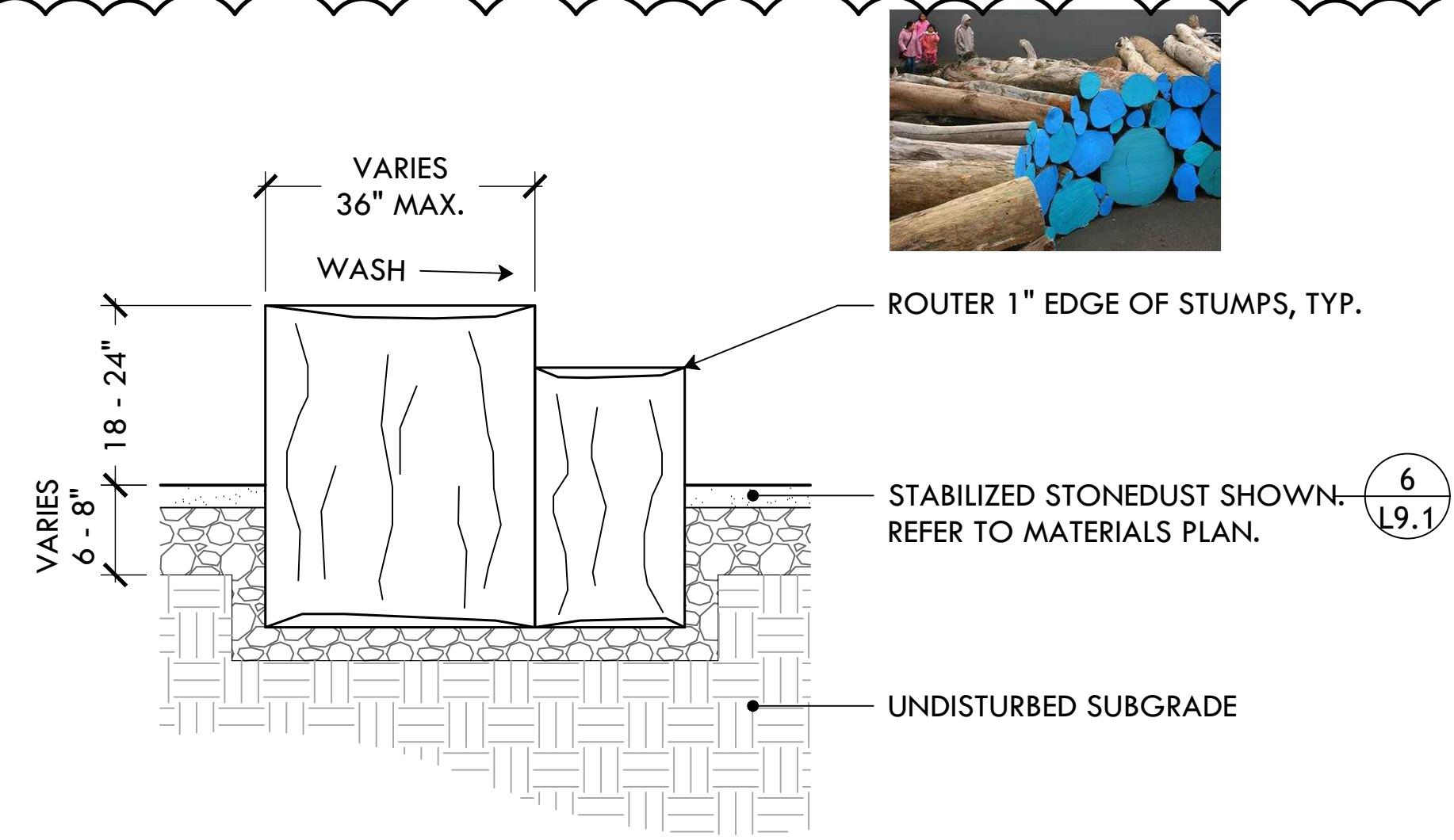


- NOTES:
- LOGS TO BE STRIPED RED OAK, BLACK OAK, OR BLACK LOCUST
 - SMOOTH CUT WOOD, PITCH TO DRAIN
 - SAND TOP WITH 120 GRIT FOR SURFACING
 - TREAT ALL EXPOSED SURFACES WITH HOWARD SUNSHIELD CONDITIONER

4 LOG BENCH SEATING
NOT TO SCALE

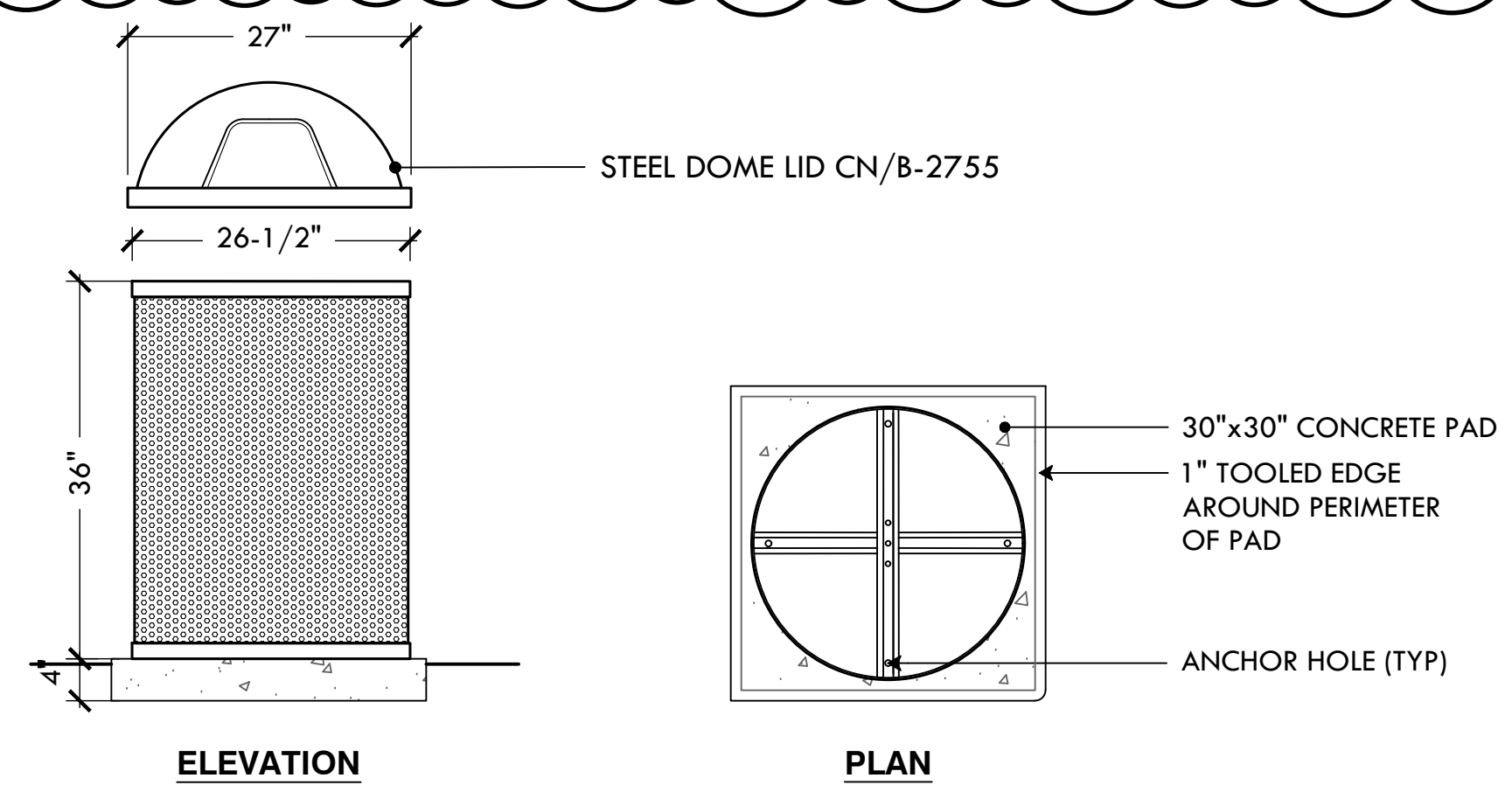


5 GRANITE BLOCK SEAT
NOT TO SCALE



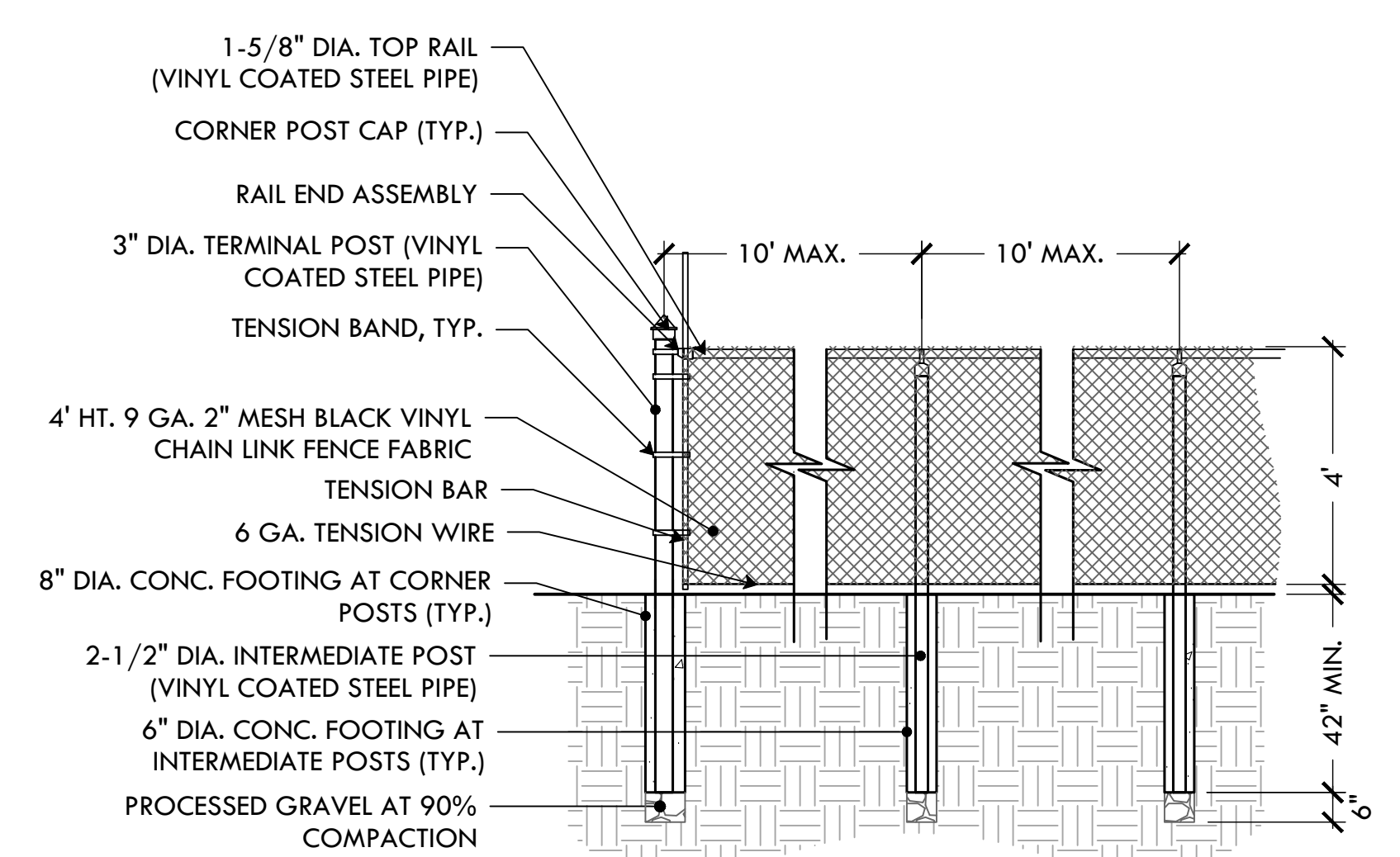
- NOTES:
- HARDWOOD STUMPS TO BE STRIPED RED OAK, BLACK OAK, OR BLACK LOCUST SAND TOP WITH 120 GRIT. SMOOTH OUT ANY ROUGH EDGES AND PITCH TO DRAIN.
 - TREAT ALL EXPOSED SURFACES WITH HOWARD SUNSHIELD CONDITIONER.
 - TREAT ALL FLAT SURFACES WITH ACRYLIC EXTERIOR PAINT, COLORS TO BE DETERMINED

6 LOG STUMP SEATING AT OUTDOOR CLASSROOM
NOT TO SCALE



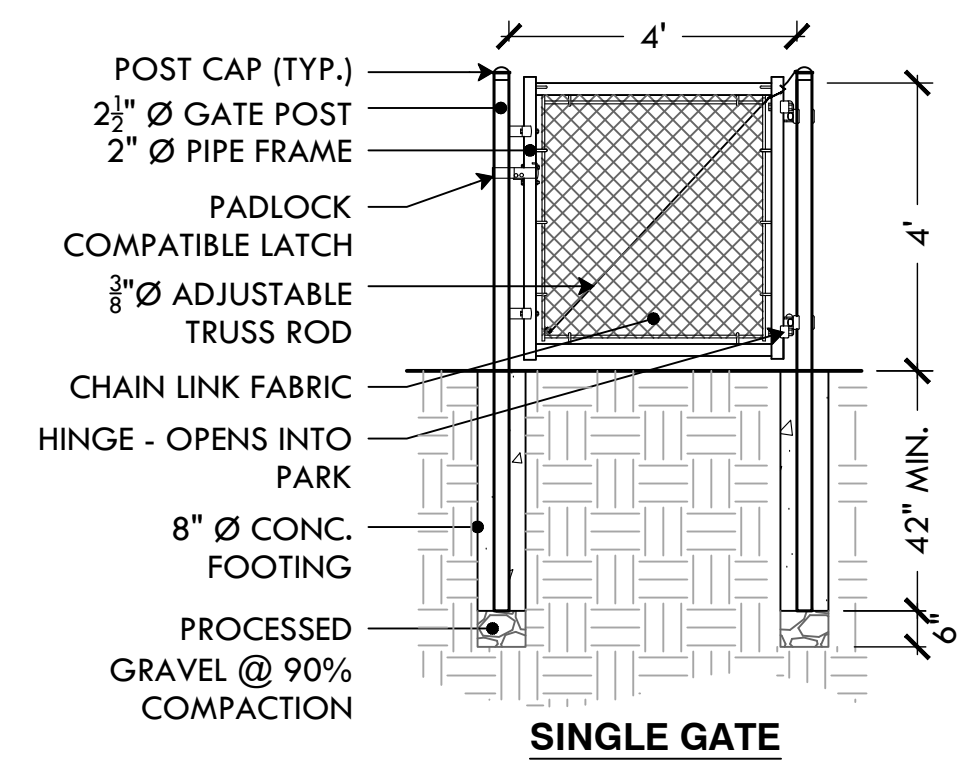
- NOTES:
- SEE DETAIL 8/L-10 FOR CONCRETE PAD.
 - UNIT SHOULD BE SECURED TO CONCRETE PAD USING THE FOUR (4) ANCHOR HOLES.
 - 55 GAL. ROUND PERFORATED STEEL TRASH RECEPTACLE. COLOR: BLACK, MATERIAL: STEEL.
 - 27" O.D. DOME LID. COLOR: BLACK, MATERIAL: STEEL.
 - 55 GAL. 23-5/8" O.D. X 35" HT., HEAVY DUTY RIGID PLASTIC LINER.
 - 1 KIT CONTAINS (2) 3/8" X 3/8" STEEL CABLES W/ ALUMINUM SLEEVES

7 PILOT ROCK 55 GALLON TRASH RECEPTACLE WITH STEEL DOME LID
NOT TO SCALE



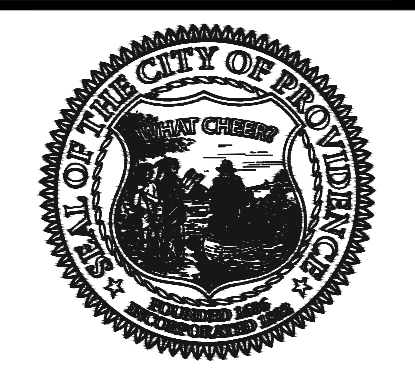
- NOTES:
- FENCING TO BE TIED TO TOP RAILS & LINE POSTS W/ 9GA. WIRE SPACED AT 12"
 - BRACE ALL CORNERS & TERMINAL POSTS W/ 1-3/4" DIA. BLACK VINYL COATED STEEL PIPE AND APPROPRIATE FASTENERS
 - ALL FENCE ELEMENTS SHALL BE OF BLACK VINYL COATED STEEL CONSTRUCTION

8 BLACK VINYL CHAIN LINK FENCE
NOT TO SCALE



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

9 4' H.T. BLACK VINYL CHAIN LINK GATE
NOT TO SCALE



PROVIDENCE PARKS DEPARTMENT
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



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Site Improvements at Cabral Park

515 Wickenden Street
Providence, RI

REVISIONS:

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1	02/27/26	ADDENDUM #3
-	-	-
-	-	-

NORTH ARROW

SCALE

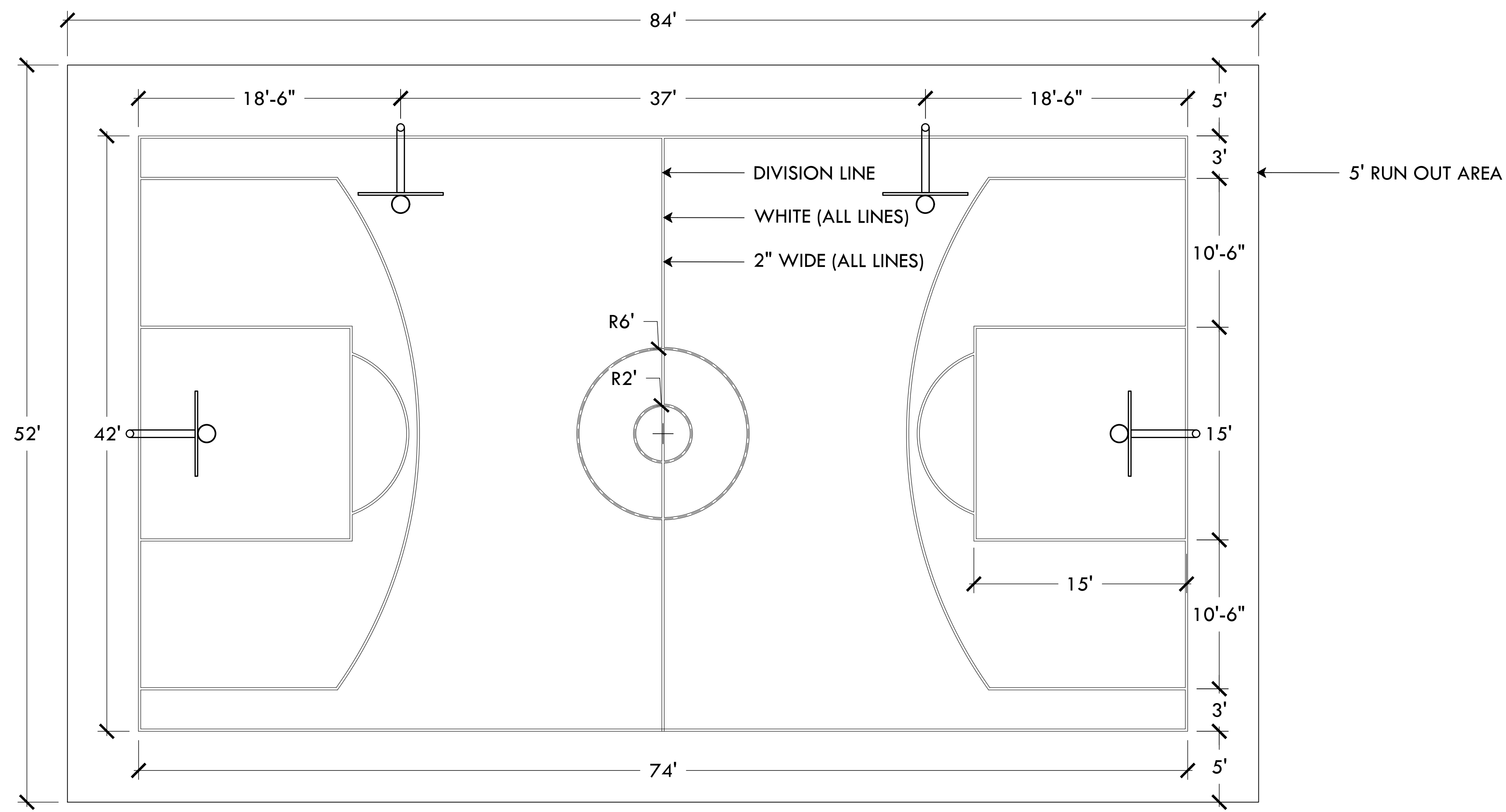
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DRAWN BY: NC/SG
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SHEET TITLE
Construction Details

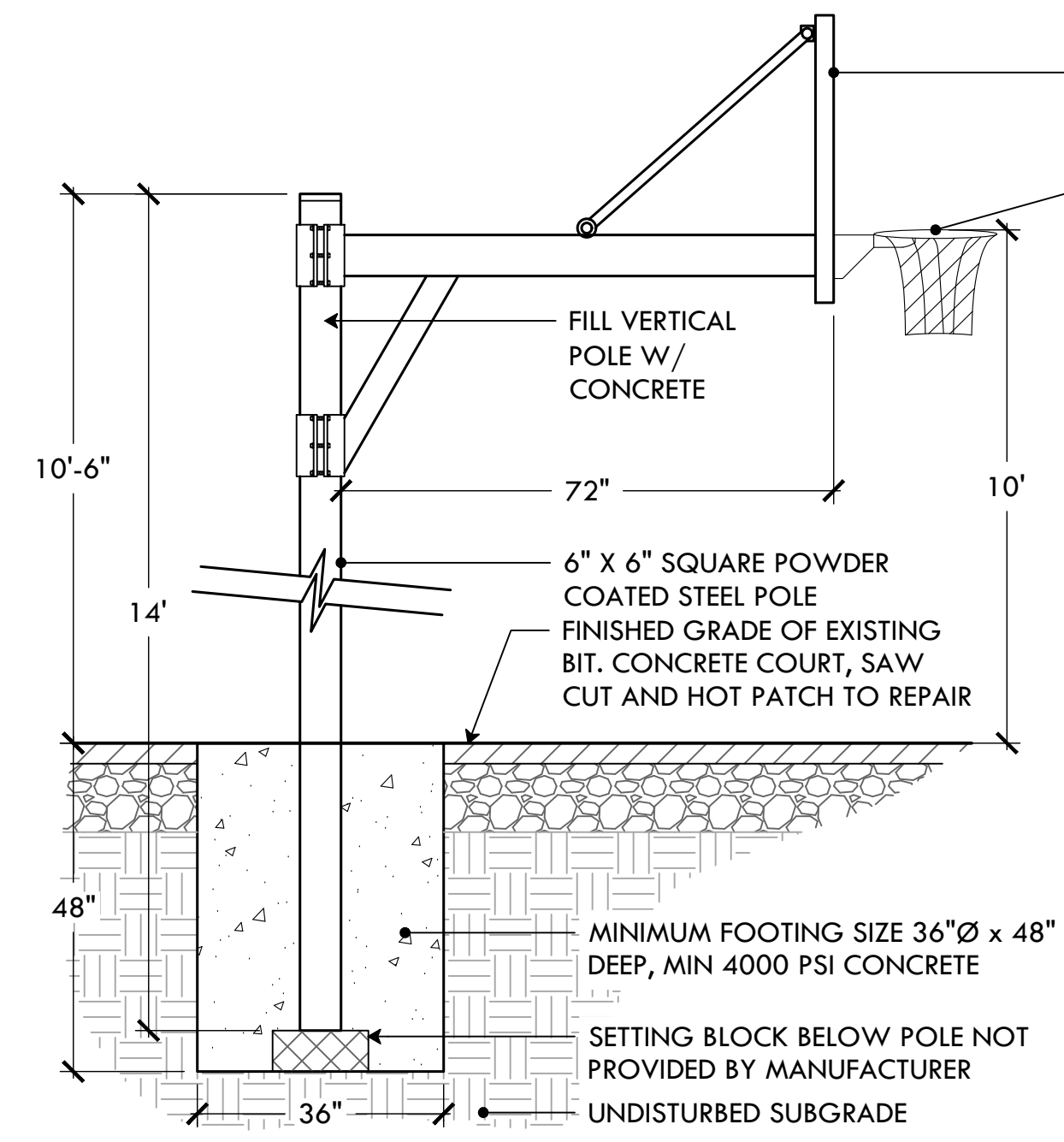
L-9.3
16 OF 23

FILE: CABR23.01-PLANS.dwg



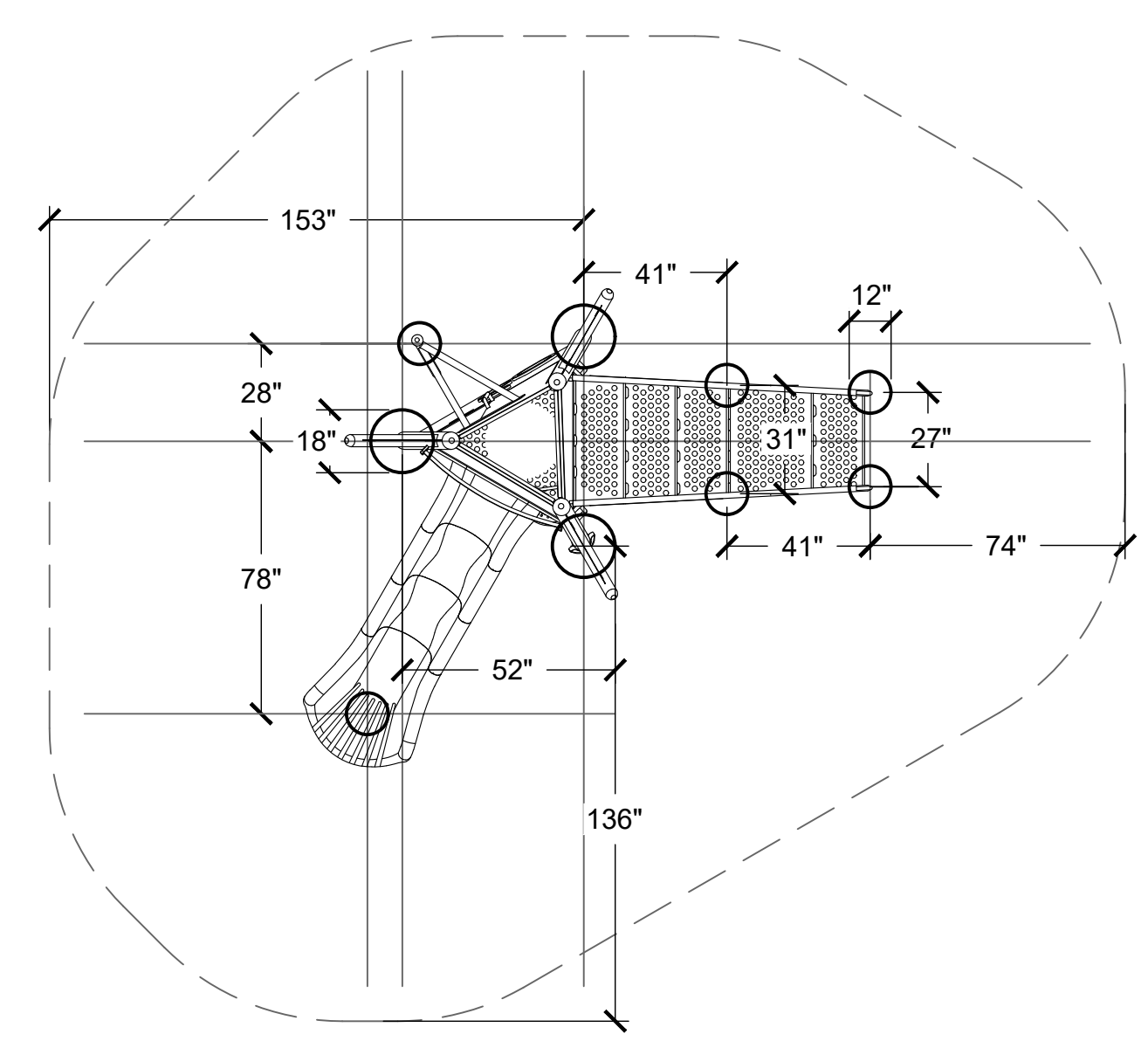
NOTES:
 1. ALL STRIPING TO BE 2" WHITE ACRYLIC PER SPECIFICATIONS.

1 MIDDLE SCHOOL BASKETBALL COURT LAYOUT
 NOT TO SCALE

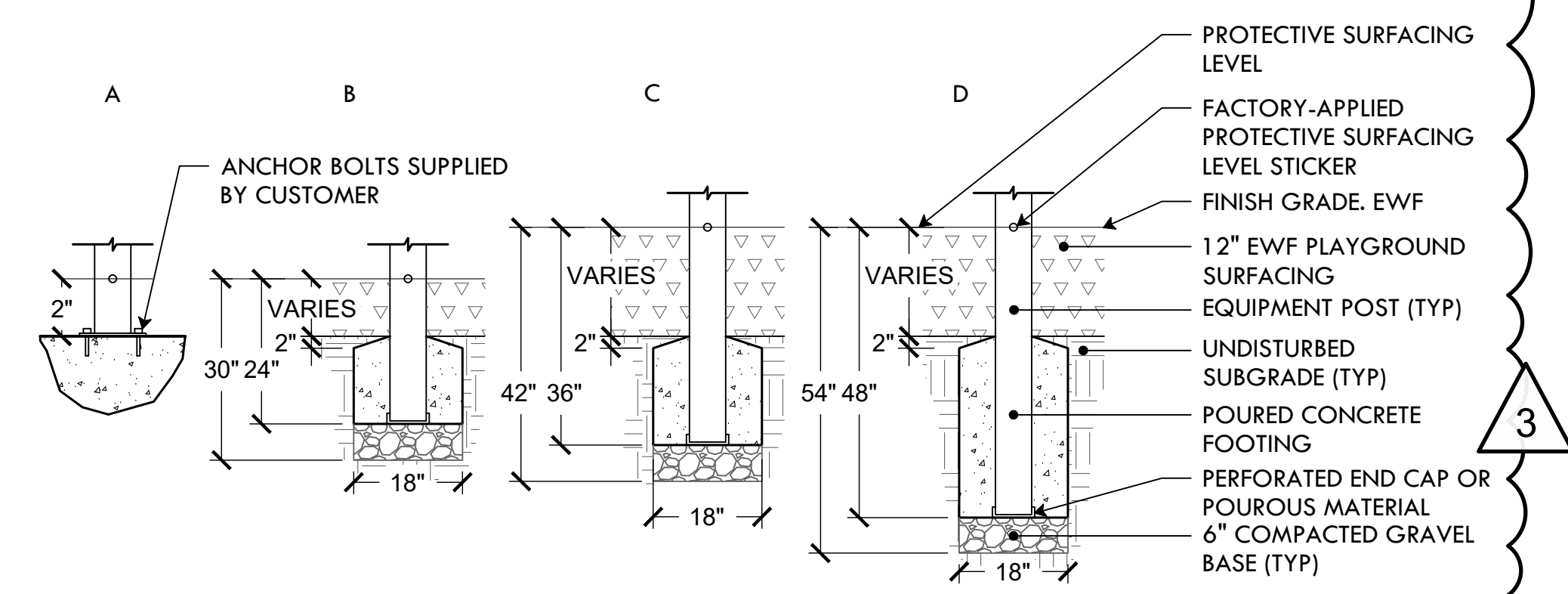


NOTES:
 1. 2-3/8" X 3" SAFETY BOLTS BEHIND THE RIM THAT ATTACH THE BACKBOARD TO THE POLE WHICH ALLOWS FOR THE RIM TO BE REPLACED WITHOUT THE BACKBOARD COMING DOWN
 2. 72" EXTENSION FOR SAFE PLAY
 3. DOUBLE STEEL HAT CLAMP WHERE ARM ATTACHES TO POLE ARM ATTACHES TO THE POLE WITH 12-1/2" STAINLESS STEEL BOLTS
 4. DIRECT BURIAL POLE SYSTEM
 5. MINIMUM POLE HEIGHT ABOVE FINISH GRADE IS 10'-6"
 6. STANDARD BLACK POWDER COATED STEEL
 7. MECHANICALLY ATTACHED POLE CAP

2 TRUEBOUNCE POST AND BACKBOARD
 NOT TO SCALE

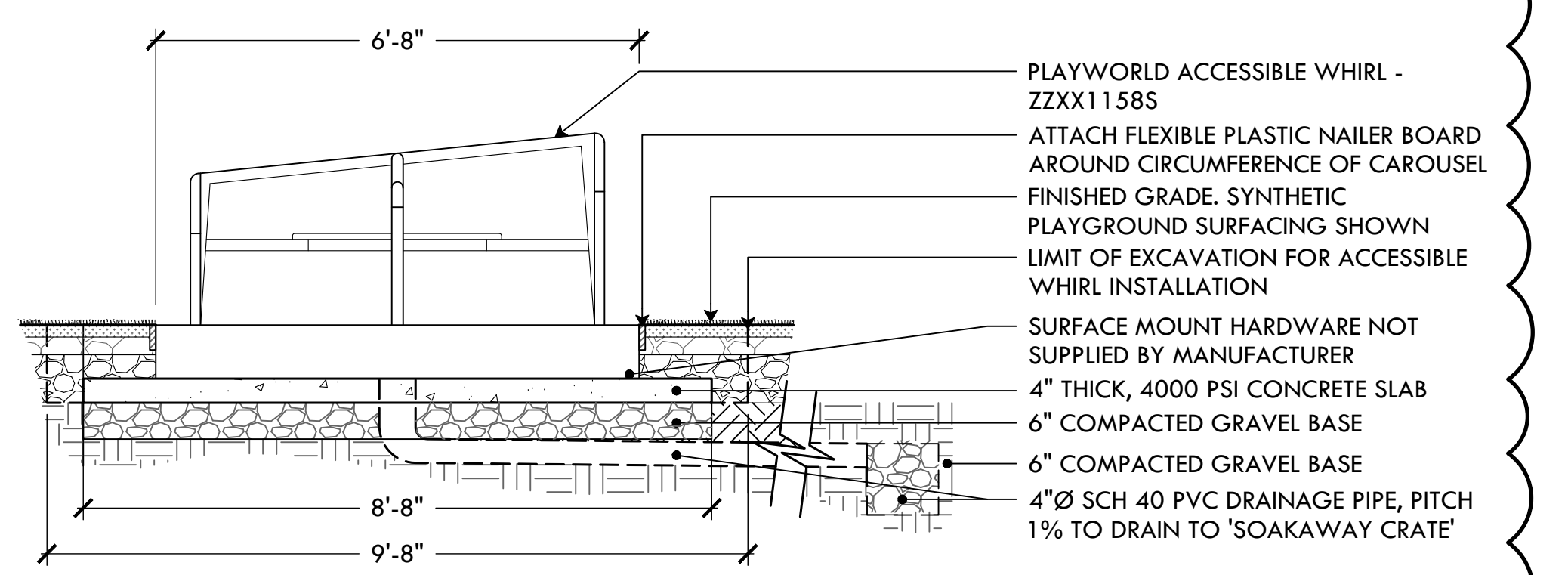


3 PLAYWORLD SLIDE FOOTING LOCATIONS - #ZZUN5916
 NOT TO SCALE



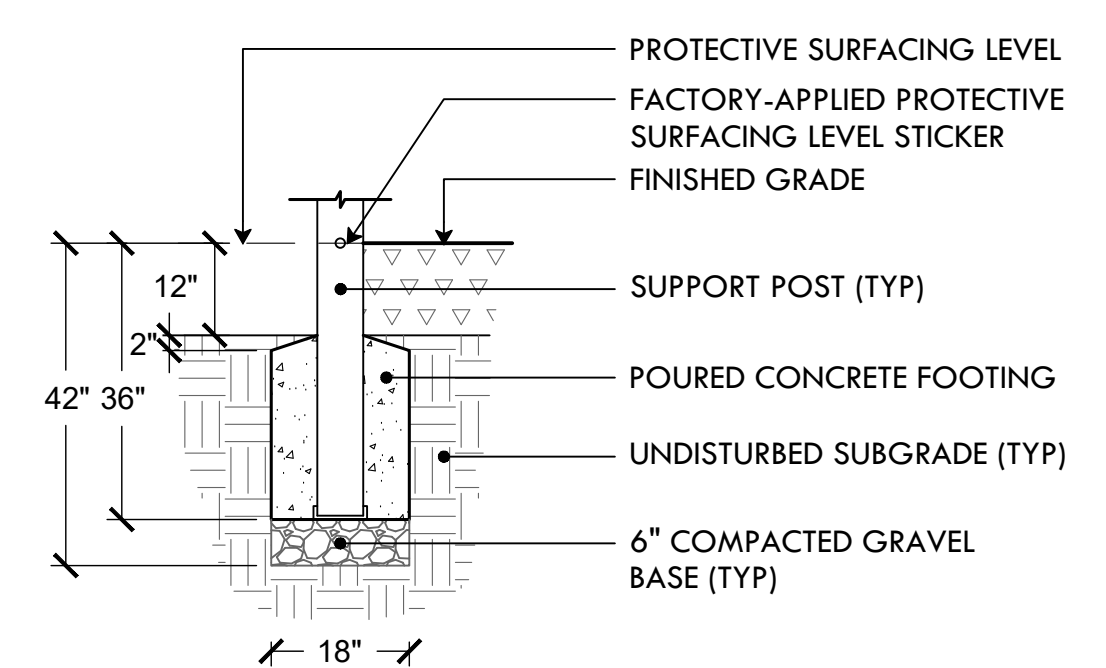
NOTE:
 1. A - SURFACE MOUNT DETAIL
 B - COMPONENT FOOTING DETAIL
 C - SUPPORT POST, SPIRAL SLIDE AND ROCKBLOCKS POST FOOTING DETAIL
 D - GROUNDZERO, CANTILEVER AND "I" POST FOOTING DETAIL
 2. SEE DETAIL XX FOR PLAYWORLD GATEWAY DESCENT SLIDE FOOTING LAYOUT

4 PLAYWORLD SLIDE FOOTING TYPES
 NOT TO SCALE



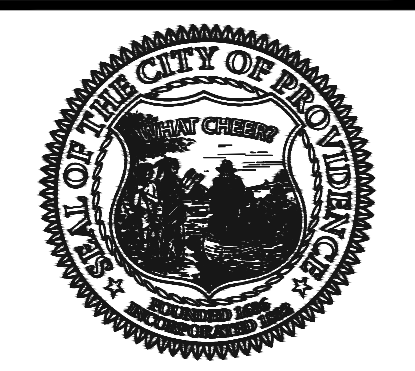
NOTES:
 1. LOCATE 4" DRAINAGE PIPE AND SOAKAWAY CRATE OUTSIDE OF THE ACCESSIBLE WHIRL FOOTPRINT.
 2. WRAP SOAKAWAY CRATE W/ 8 oz FILTER FABRIC, CRATE TO BE 12"x12"x12" OF 3/4" DRAINAGE STONE

5 PLAYWORLD ACCESSIBLE WHIRL #ZZXX1158S - SURFACE MOUNT FOOTING
 NOT TO SCALE



NOTE:
 1. SUPPORT POST FOOTING DEPTH EQUALS 42 IN. LESS THAN THE DEPTH OF THE PROTECTIVE SURFACING MATERIAL. THE POST IS DESIGNED TO HAVE 24" IN CONCRETE.
 2. DO NOT ENCASE BOTTOM OF SUPPORT POST IN CONCRETE. PLACE POST DIRECTLY ON PACKED STONE OR POROUS BLOCK.

6 PLAYWORLD SPIN CUP #ZZXX0065 - FOOTING
 NOT TO SCALE



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PROJECT:
 Site Improvements at Cabral Park

515 Wickenden Street
 Providence, RI

REVISIONS:

#	Date	Issued For:
1	02/27/26	ADDENDUM #3
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-	-	-

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 01/28/2026
 PROJECT NO: CPPG.23.01
 DRAWN BY: NC/SG
 CHECKED BY: MG

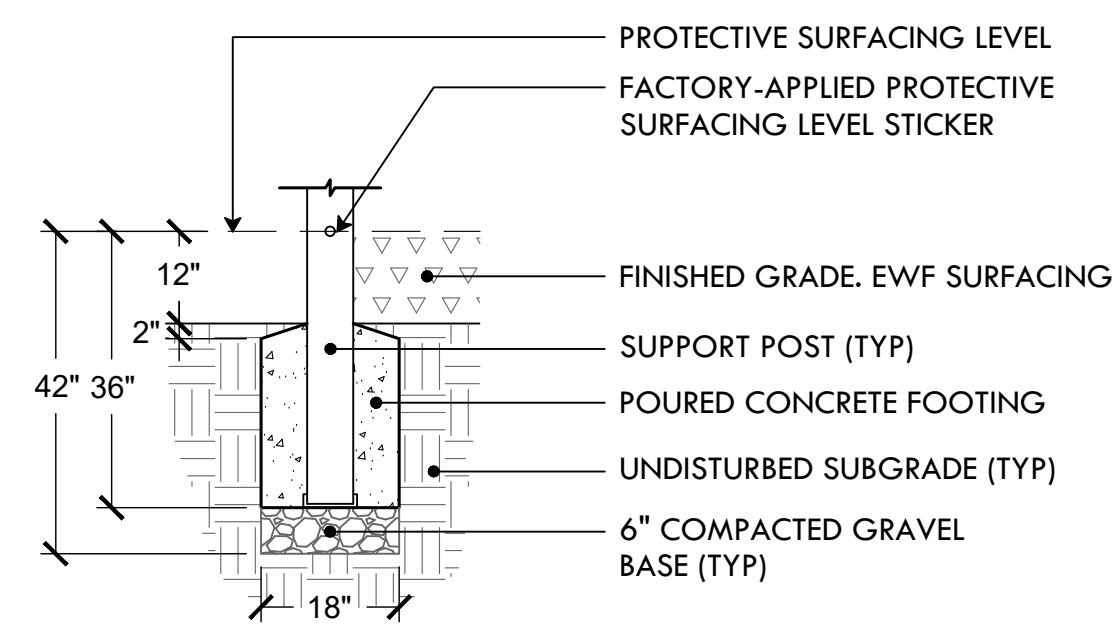
SHEET TITLE

Construction Details

L-9.4

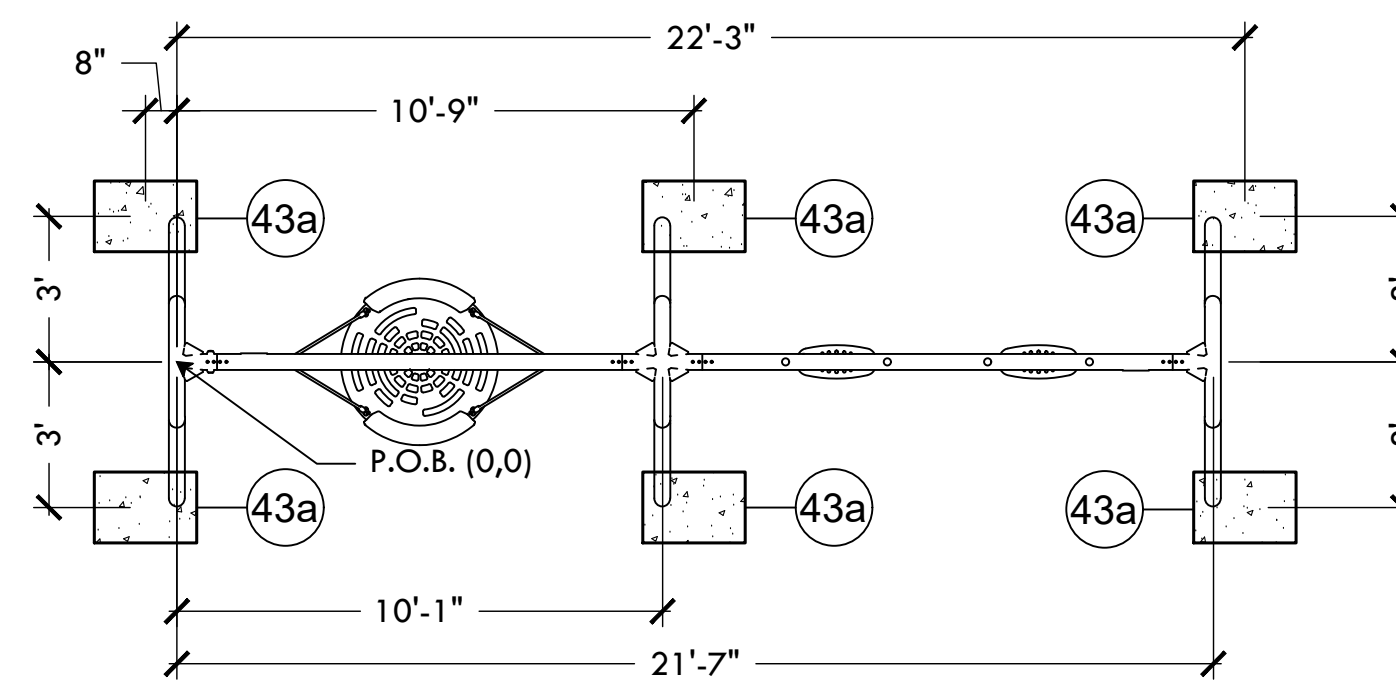
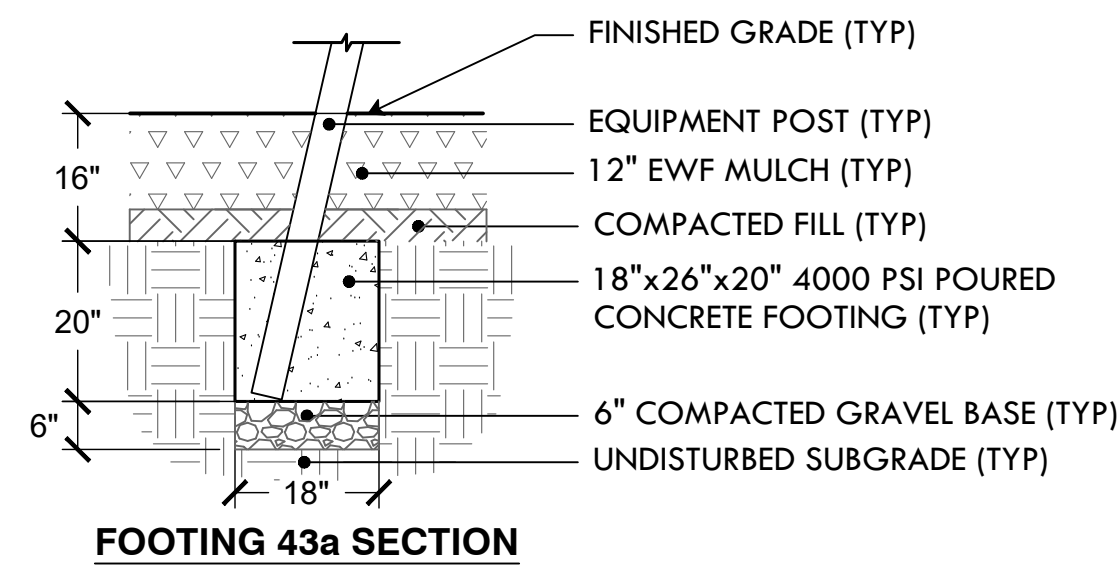
17 OF 23

FILE: CABR23.01-PLANS.dwg

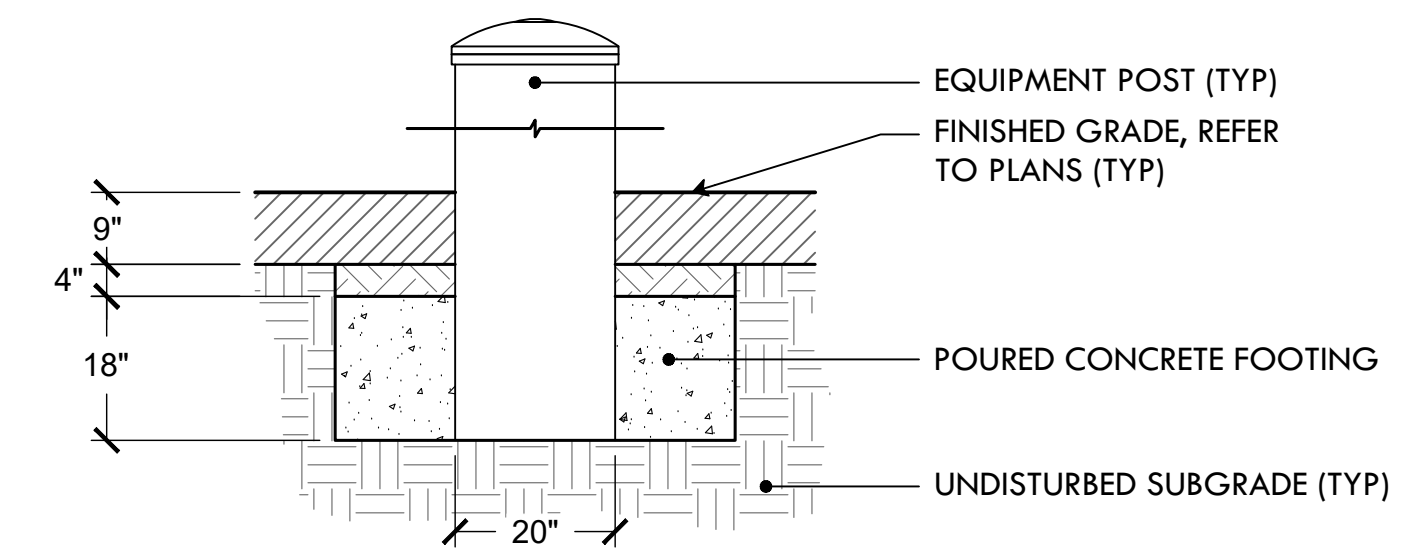


NOTE:
 1. SUPPORT POST FOOTING DEPTH EQUALS 42 IN. LESS THAN THE DEPTH OF THE PROTECTIVE SURFACING MATERIAL. THE POST IS DESIGNED TO HAVE 24" IN CONCRETE.
 2. DO NOT ENCASE BOTTOM OF SUPPORT POST IN CONCRETE. PLACE POST DIRECTLY ON PACKED STONE OR POROUS BLOCK.

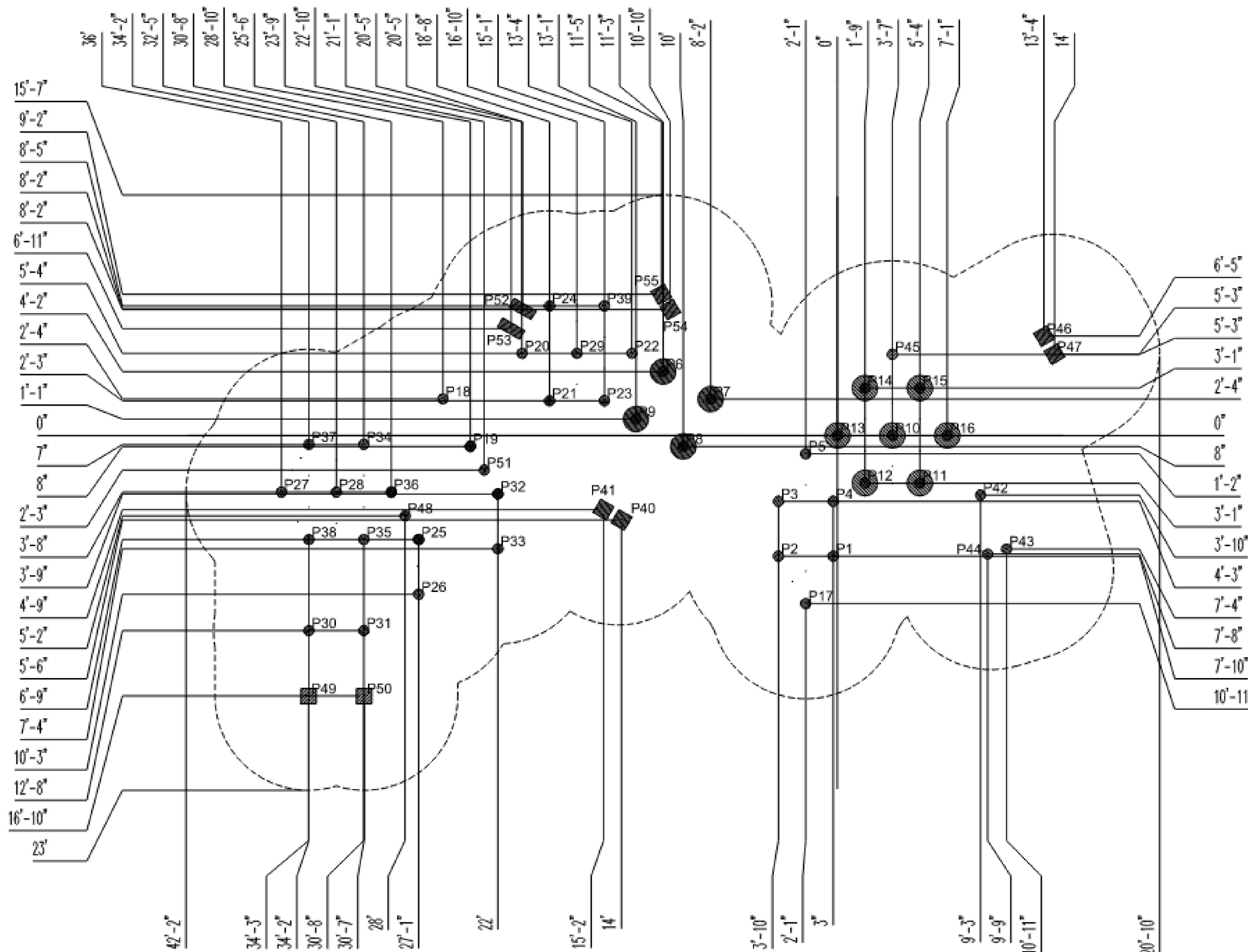
1 PLAYWORLD TOT SWING #ZZX0822 - FOOTING
 NOT TO SCALE



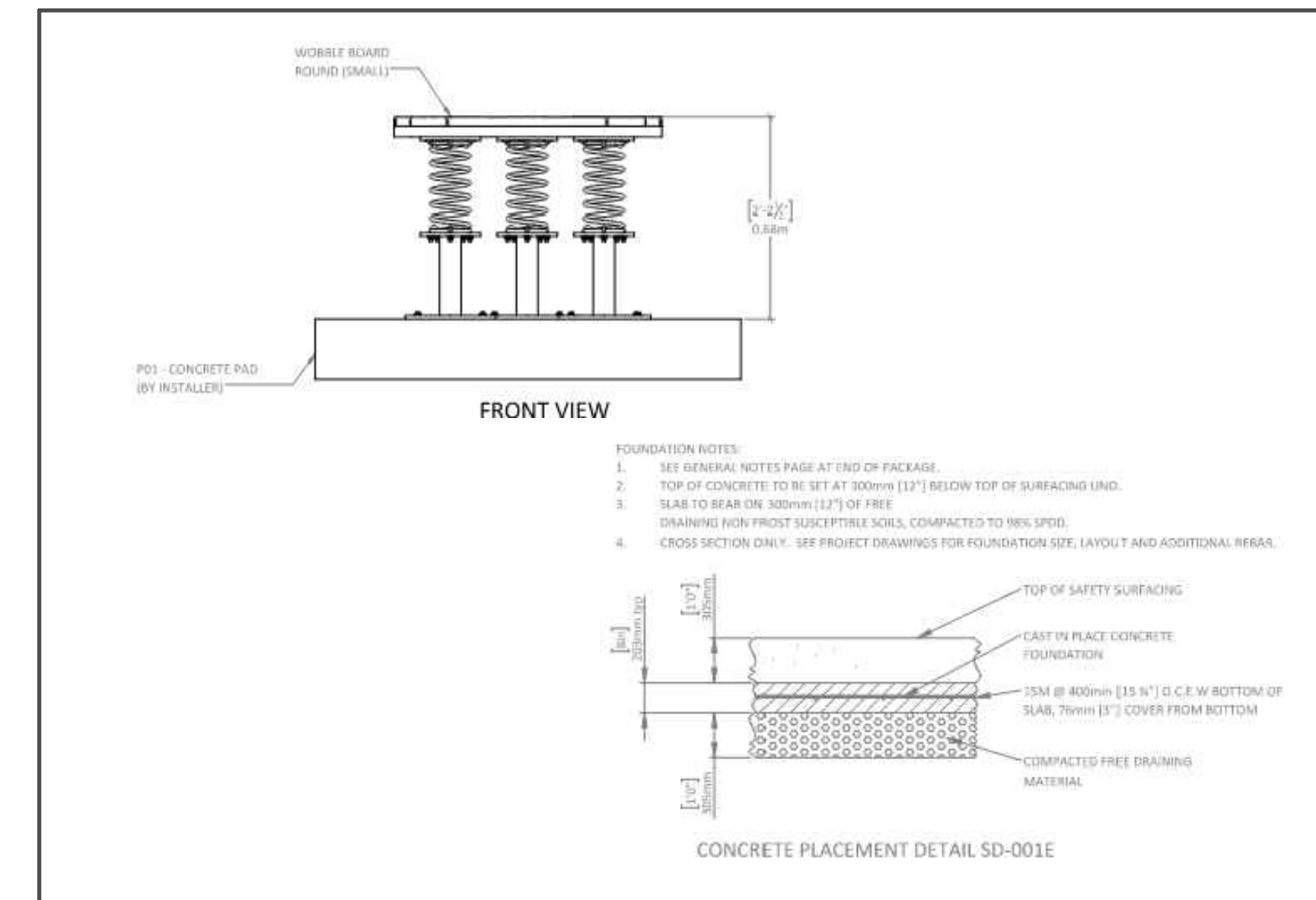
2 KOMPAN TWO-BAY SWING W/ NEST FOOTING #KSW92009-0910
 NOT TO SCALE



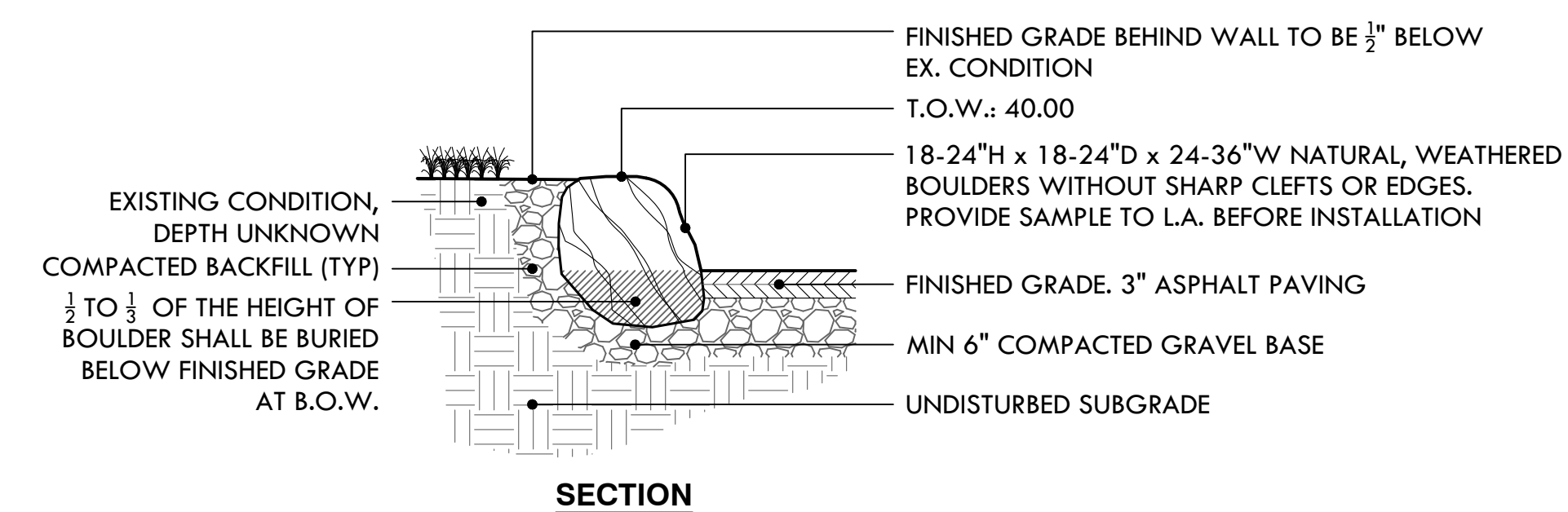
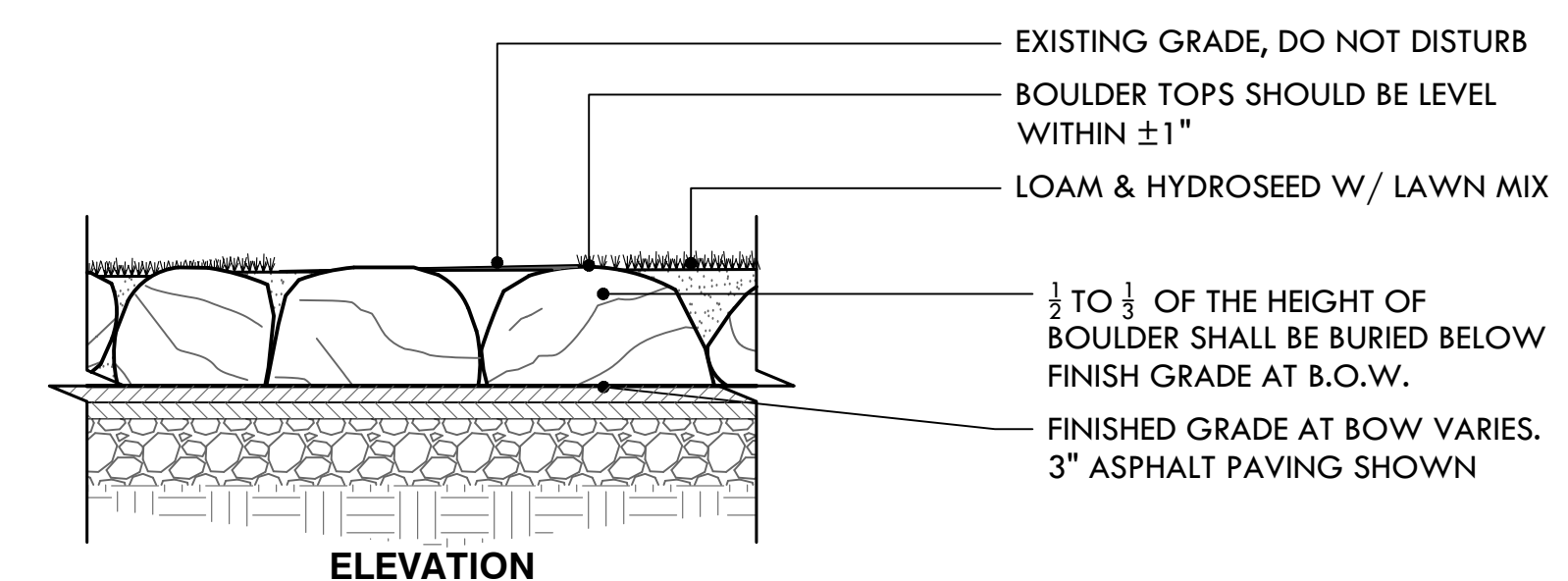
3 KOMPAN COMPOSITE PLAY STRUCTURE #PCMS727384 - FOOTING
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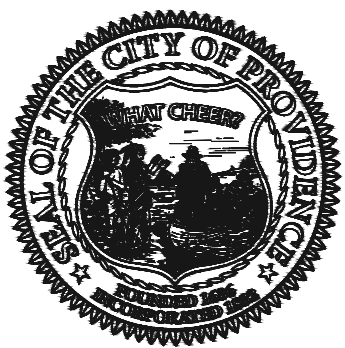
4 KOMPAN COMPOSITE PLAY STRUCTURE #PCMS727384 - FOOTING LOCATIONS
 NOT TO SCALE



5 EARTHSCAPE SMALL ROUND WOBBLE BOARD SURFACE MOUNT
 NOT TO SCALE



6 BOULDER EMBANKMENT
 NOT TO SCALE



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PROJECT:
 Site Improvements at
 Cabral Park
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 Providence, RI

REVISIONS:

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-	-	-

NORTH ARROW

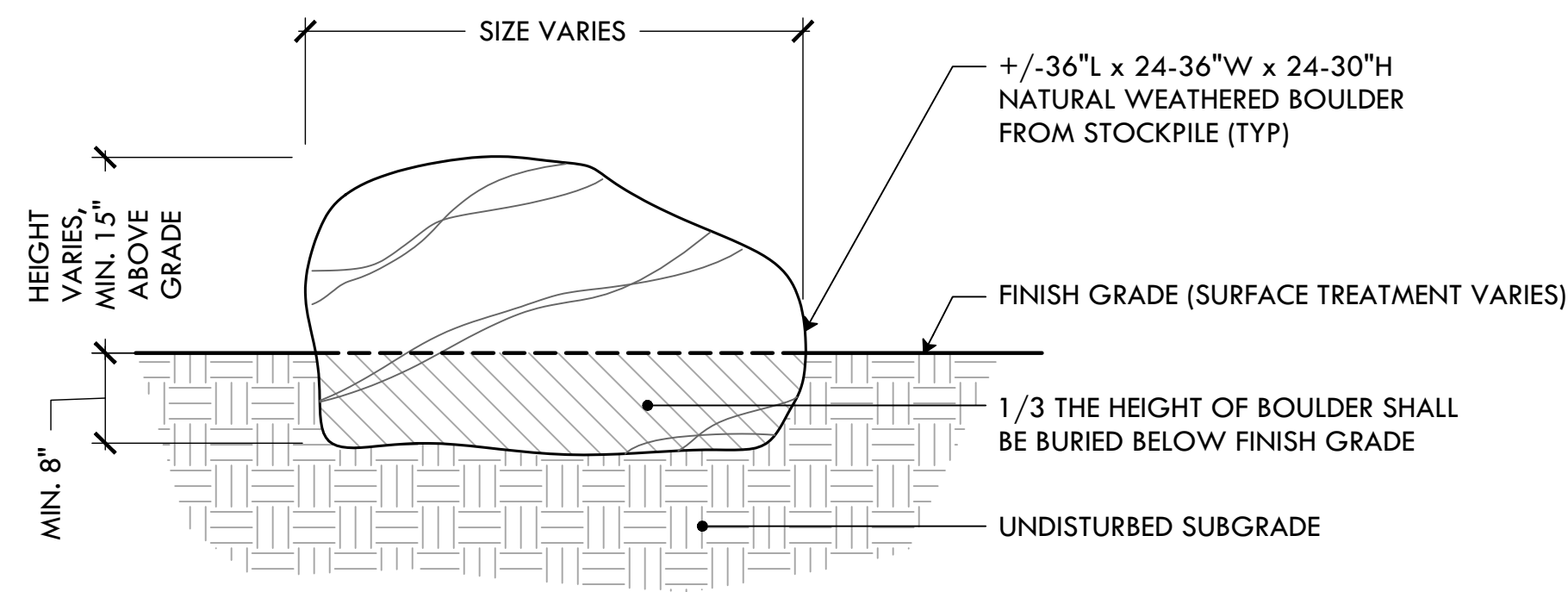
SCALE

DRAWING INFO
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 CHECKED BY: MG

SHEET TITLE
 Construction
 Details

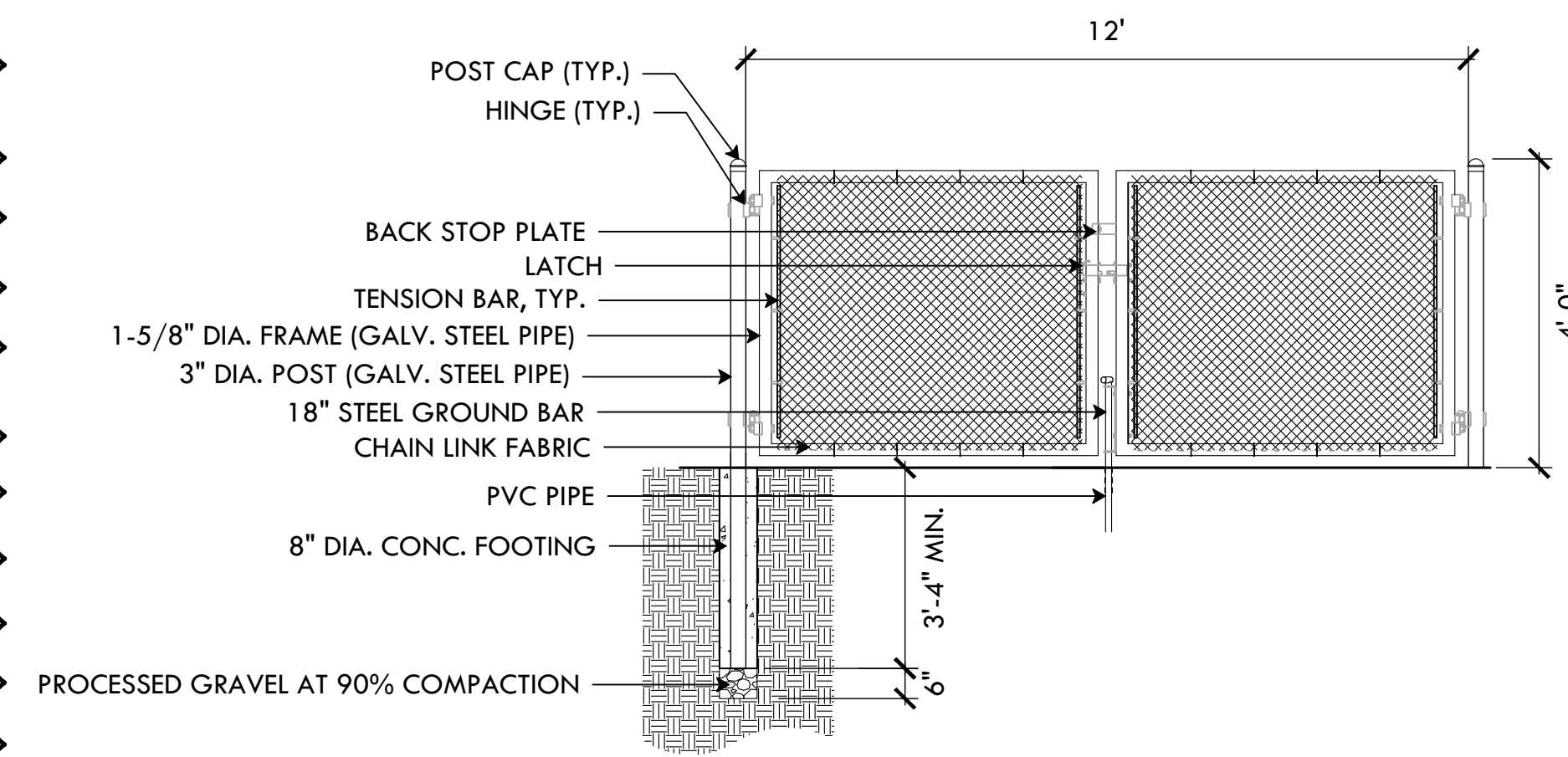
L-9.5
 18 OF 23

FILE: CABR23.01-PLANS.dwg

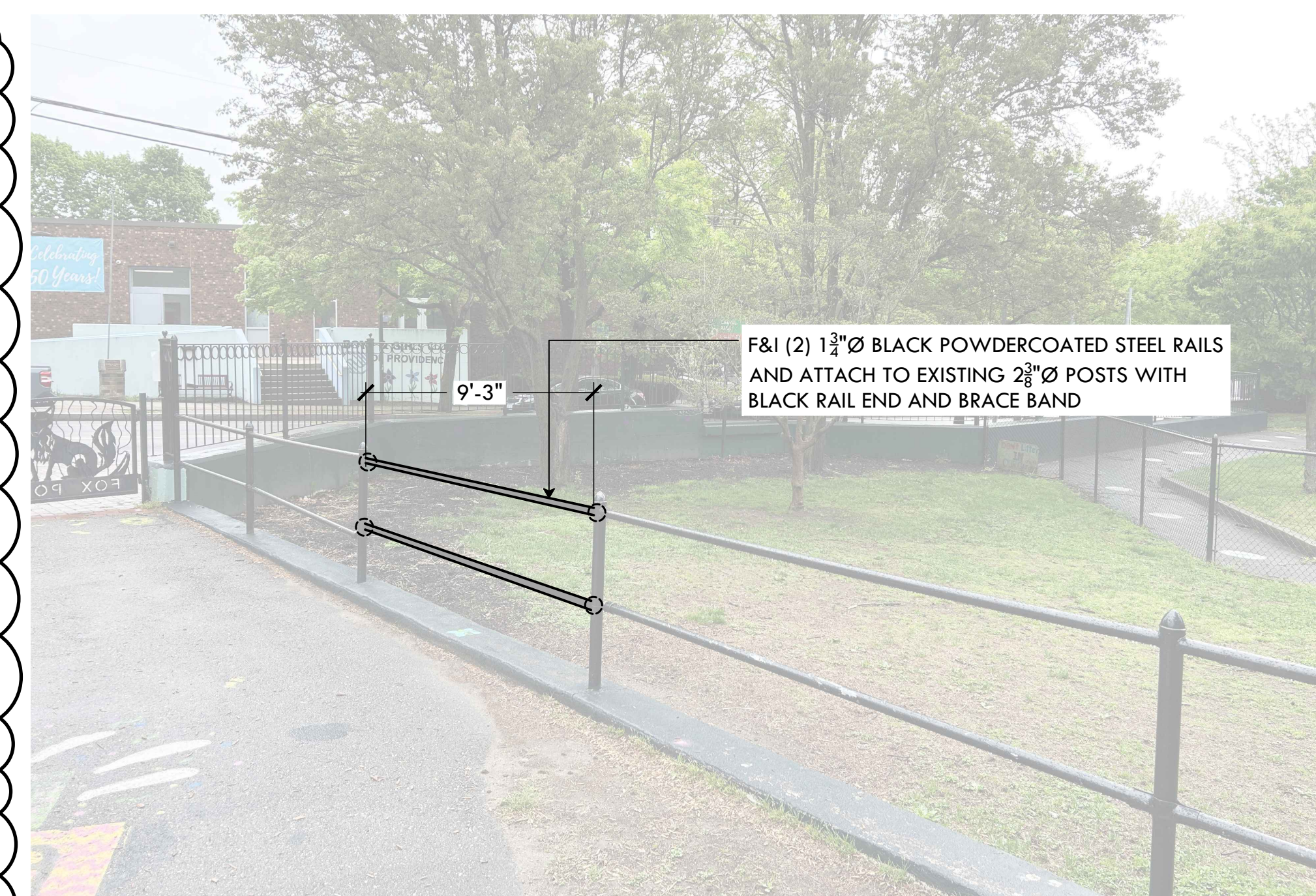


BOULDER QUANTITY:
 (7) 42 - 48"
 (12) 36 - 42"
 (10) 30 - 36"
 (EXCLUDING BOULDERS IN
 SCRAMBLE & EMBANKMENT)

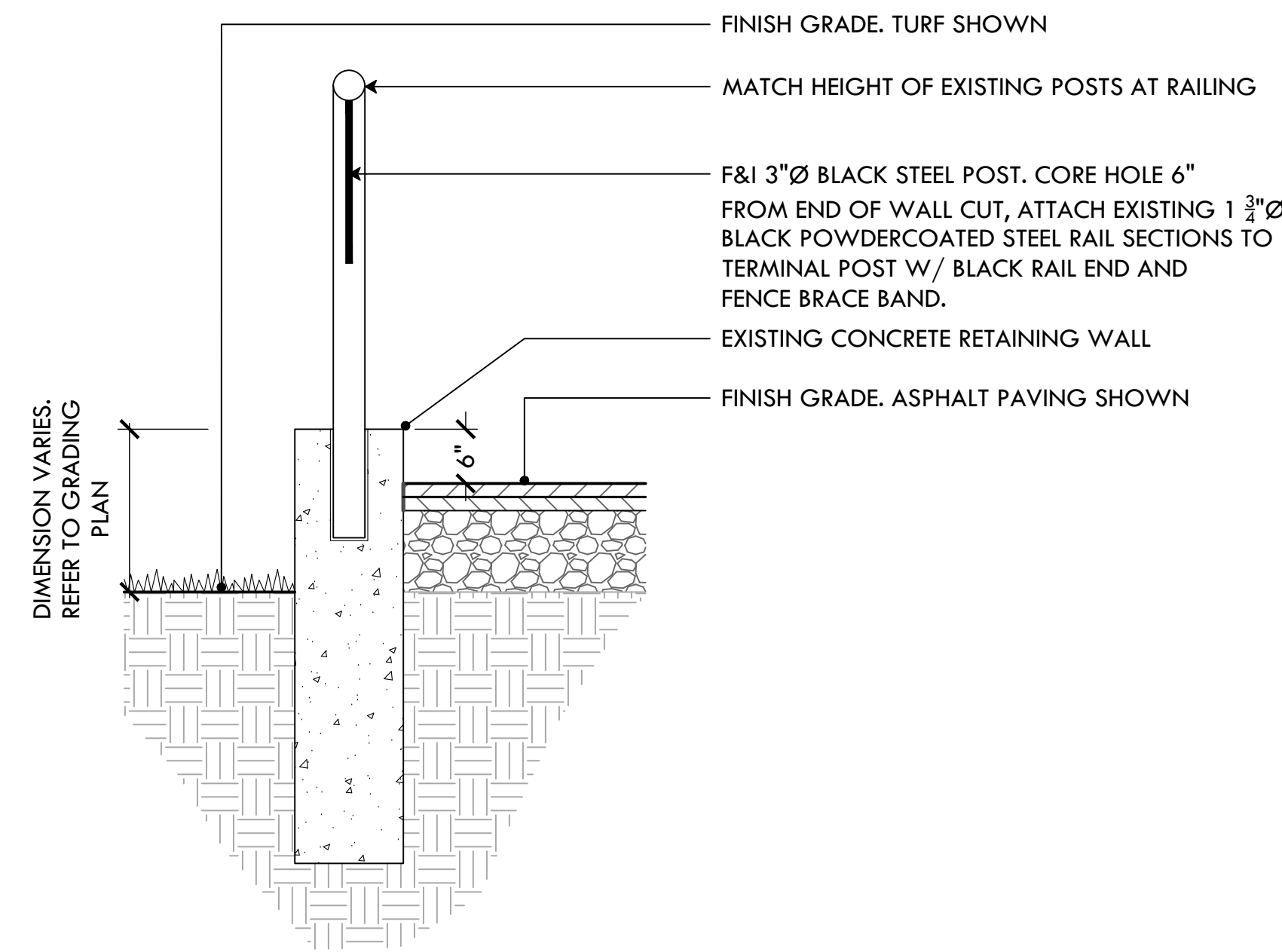
1 BOULDER IN LANDSCAPE
 NOT TO SCALE



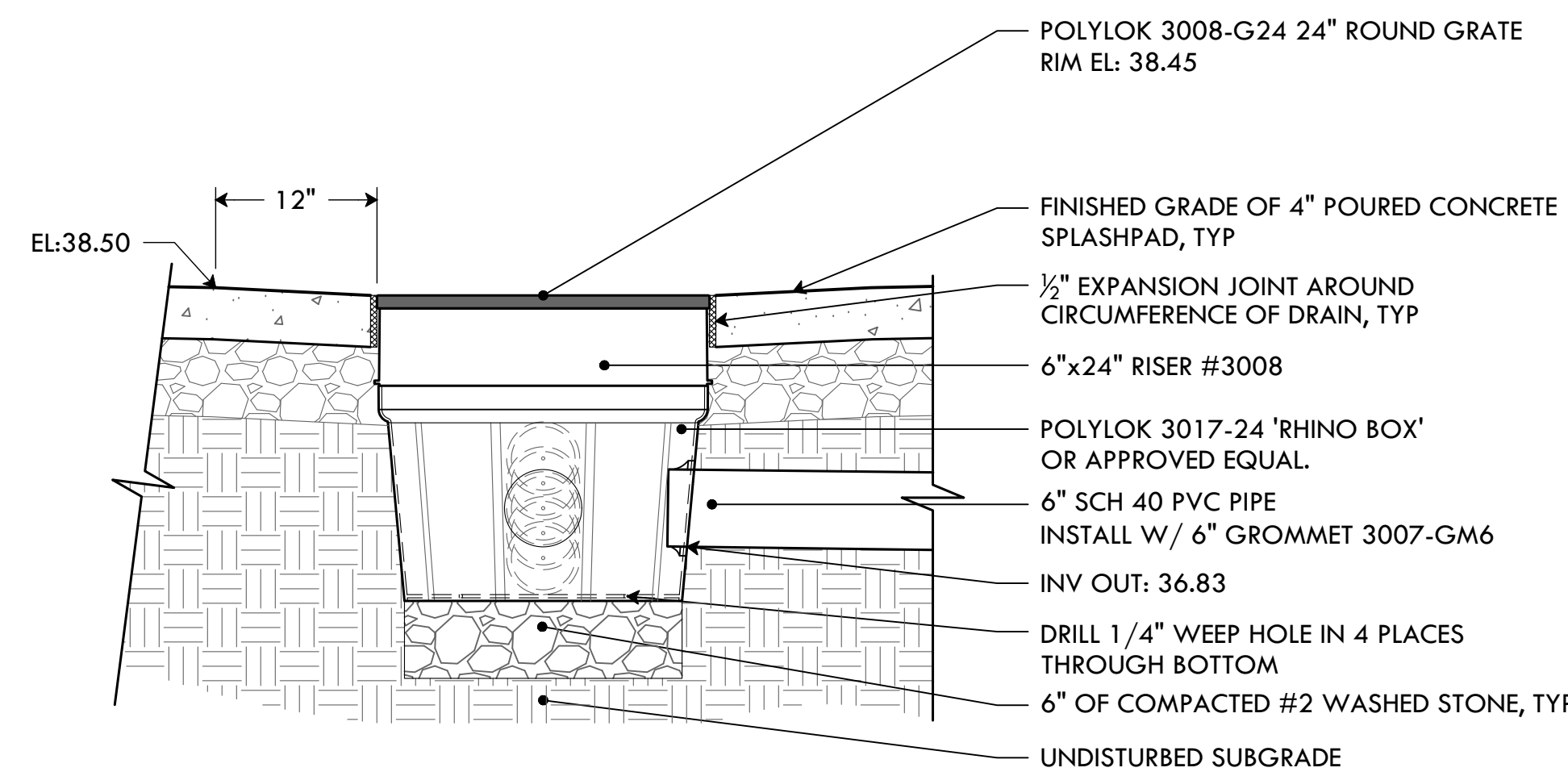
2 12' WIDE CHAIN LINK SERVICE GATE
 NOT TO SCALE



3 HORIZONTAL RAILING INSERT ON EXISTING RETAINING WALL
 NOT TO SCALE



**4 3\"/>
 NOT TO SCALE**



**5 24\"/>
 NOT TO SCALE**



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PROJECT:
**Site Improvements at
 Cabral Park**
**515 Wickenden Street
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REVISIONS:

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NORTH ARROW

SCALE

DRAWING INFO
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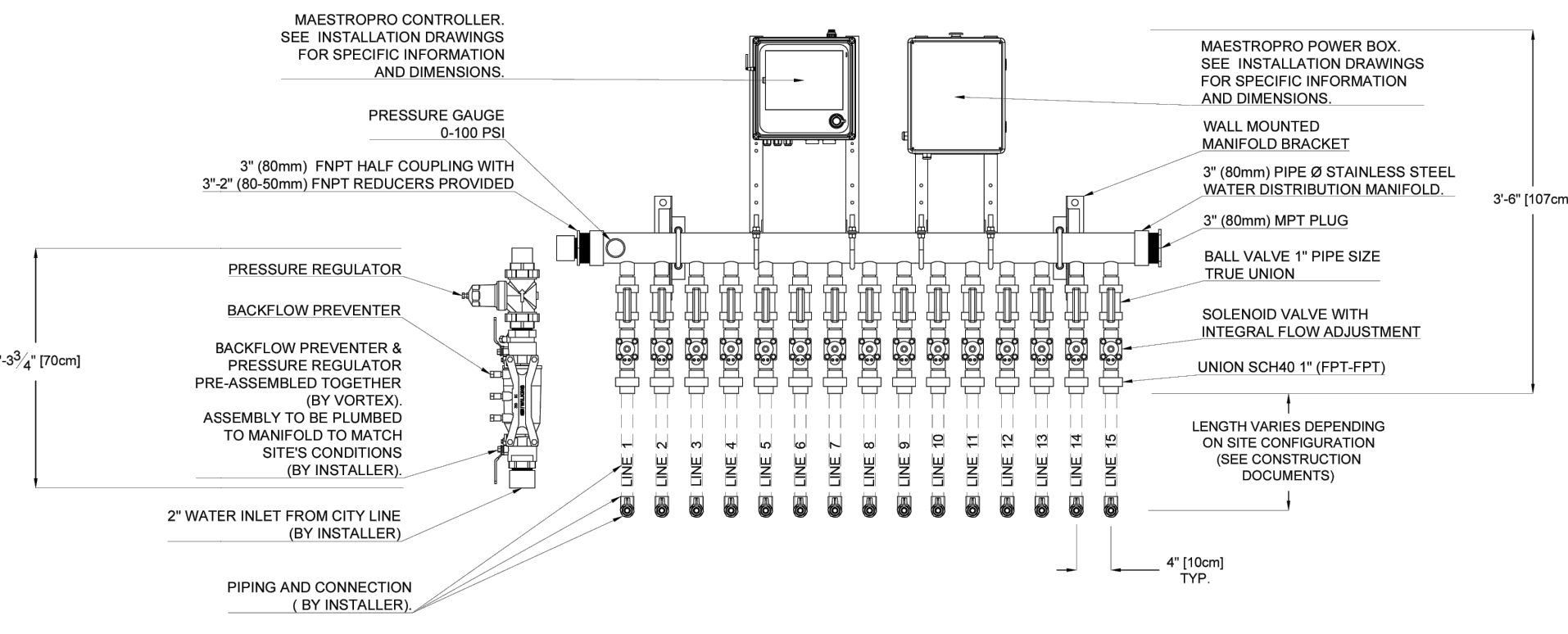
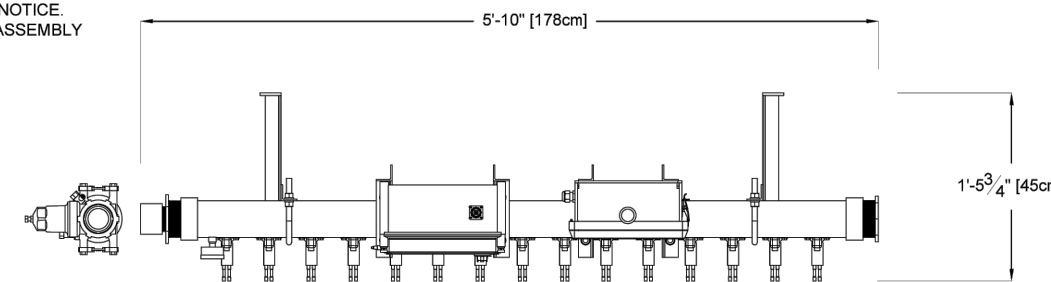
SHEET TITLE
**Construction
 Details**

L-9.6

19 OF 23

FILE: CABR23.01-PLANS.dwg

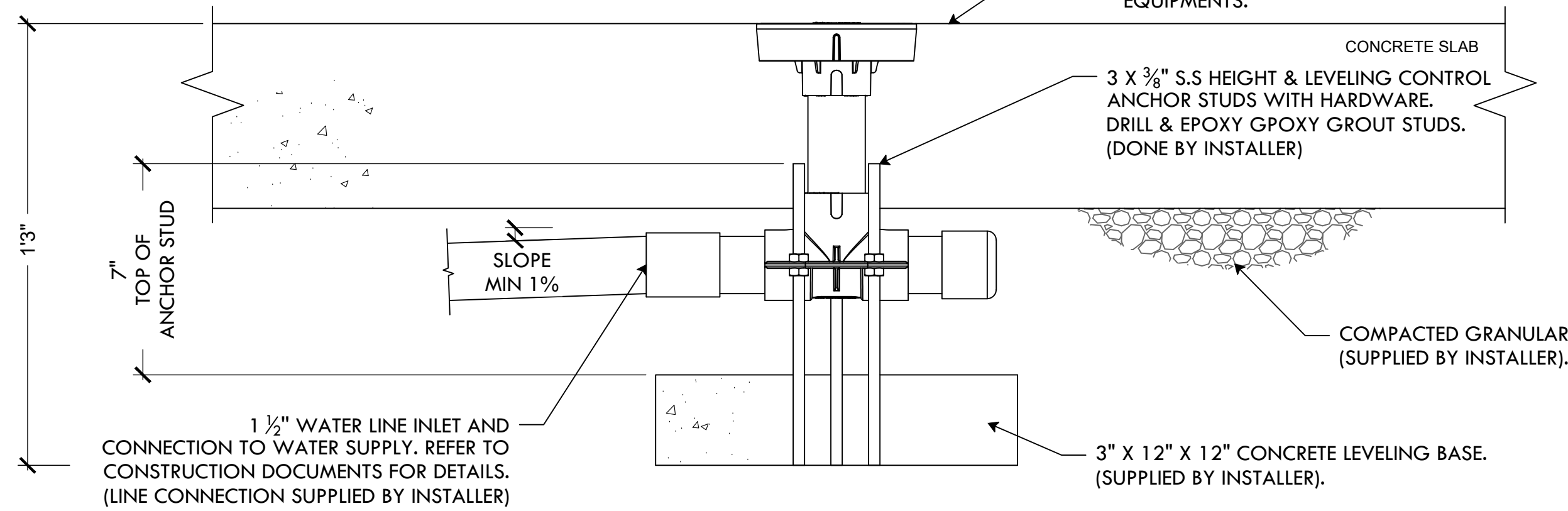
- NOTES:
- SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - WATER INLETS & OUTLETS ARE SLIP CONNECTIONS.
 - DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE WITHOUT NOTICE.
 - WATER INLET, PRESSURE REGULATOR AND BACKFLOW PREVENTER ASSEMBLY CAN BE INSTALLED ON BOTH ENDS OF THE MANIFOLD.
 - INLETS CAN BE CONFIGURED UP TO TWO WITH:
 - 3" NO BPF / PR
 - 3" REDUCED TO 2" PR
 - 3" REDUCED TO 2" BPF / PR
 - 2" NO BPF / PR
 - 2" WITH PR
 - 2" WITH BPF / PR
 - OUTLETS CAN BE A COMBINATION UP TO 10 OF:
 - 1" GATE VALVE
 - 1" BRASS OR PVC SOLENOID VALVE WITH OR WITHOUT BALL VALVE
 - 1" FAST ACTING SOLENOID VALVE



1 VORTEX SPLASHPAD MANIFOLD
NOT TO SCALE

NOTES:

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

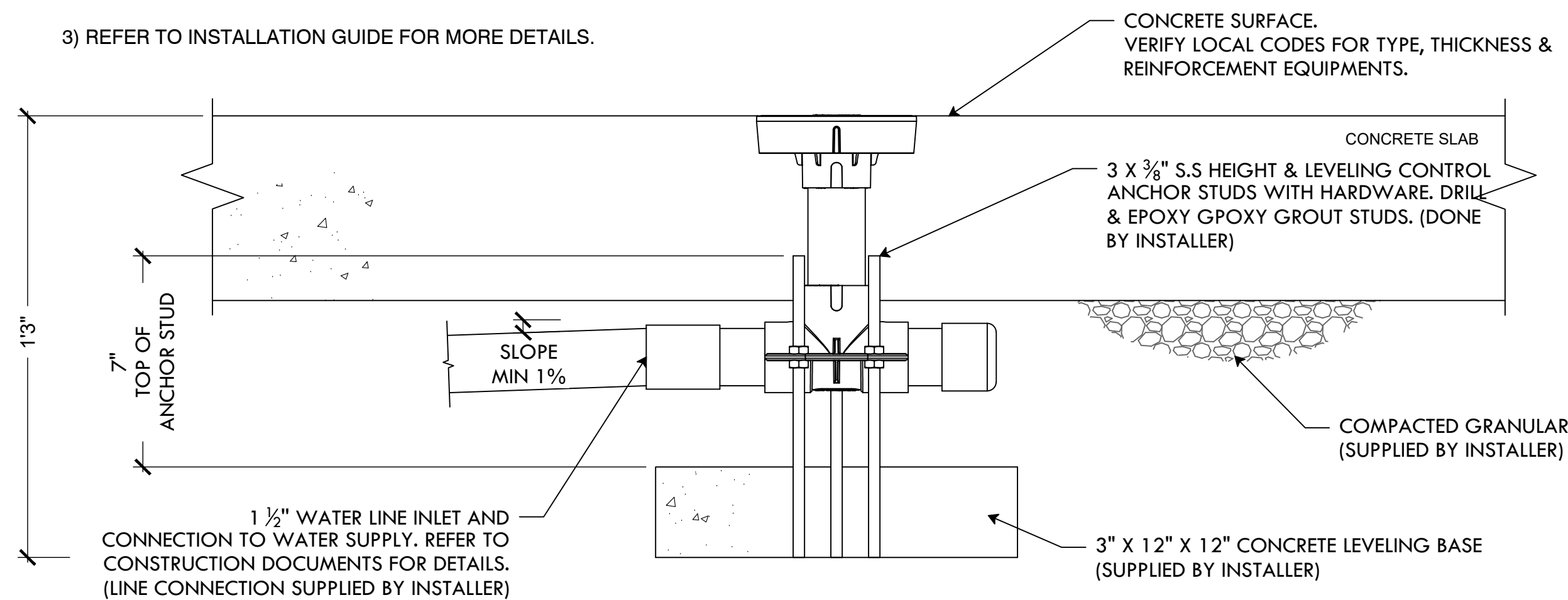


FRONT ELEVATION VIEW

2 VOR 3000 = SPRAYLINK JET NO.1
NOT TO SCALE

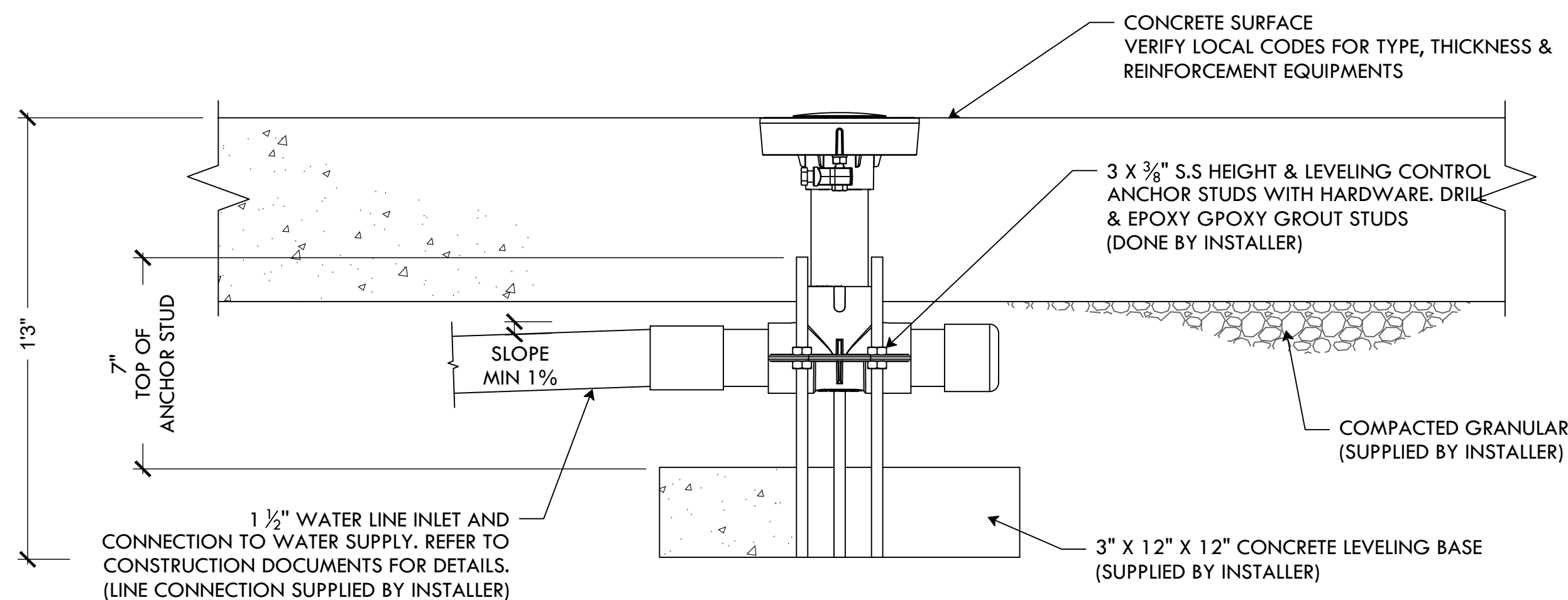
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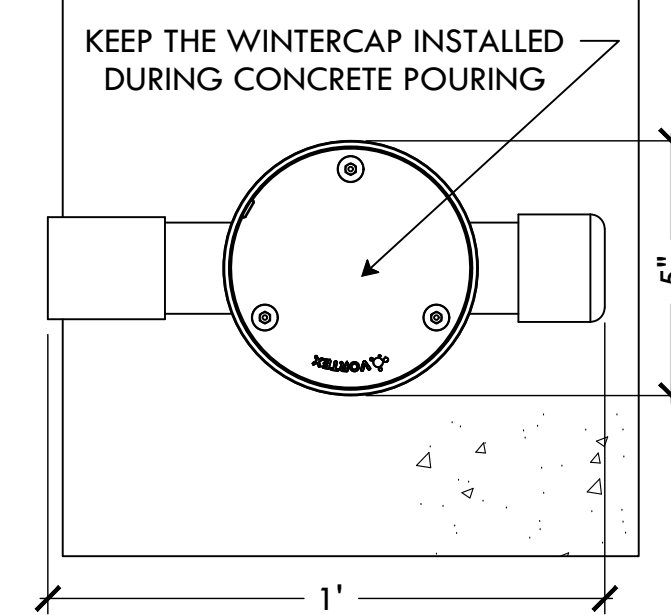
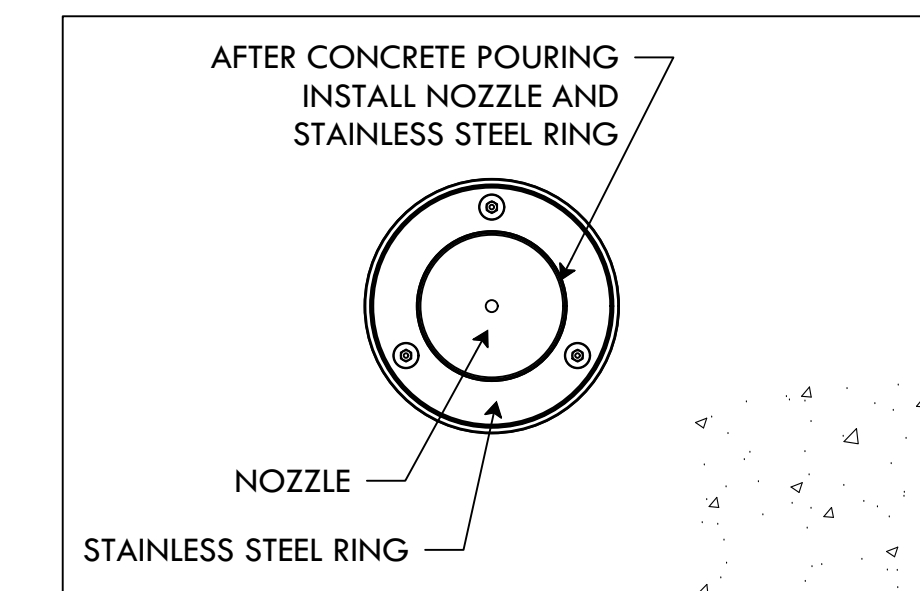
FRONT ELEVATION VIEW

3 VOR 3005 - SPRAYLINK GEYSER
NOT TO SCALE

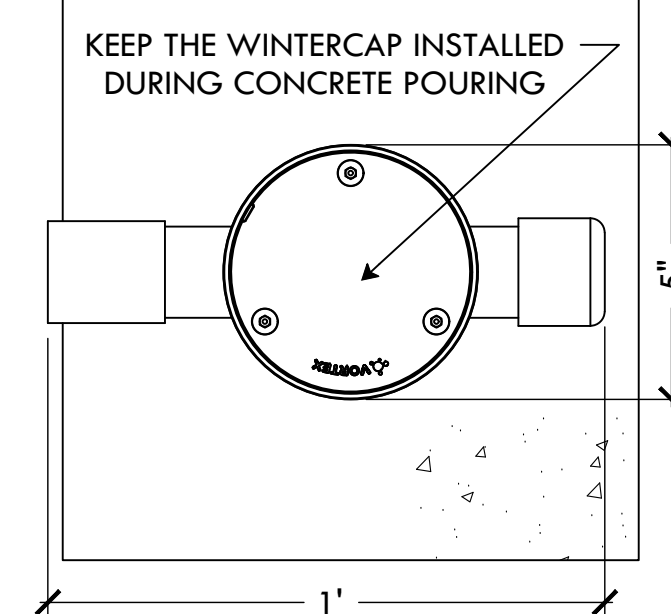
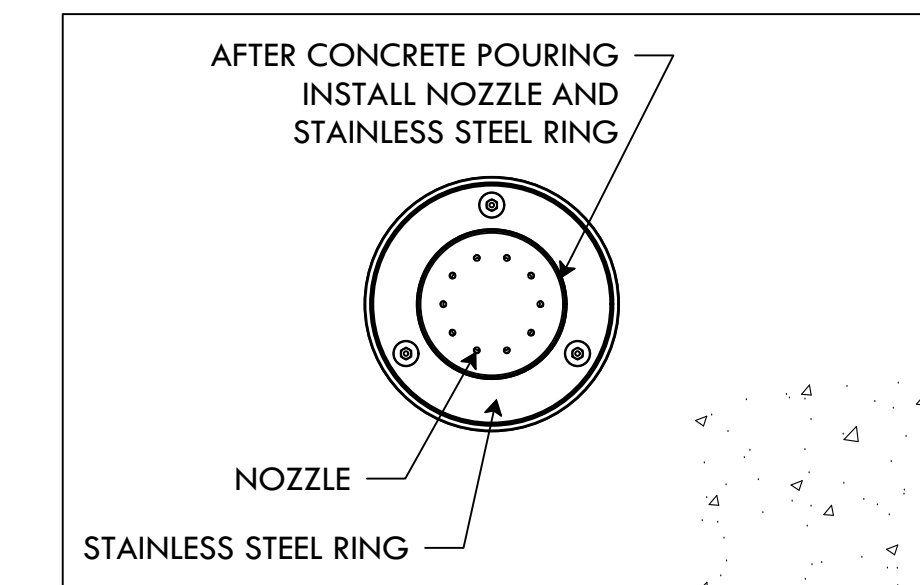


FRONT ELEVATION VIEW

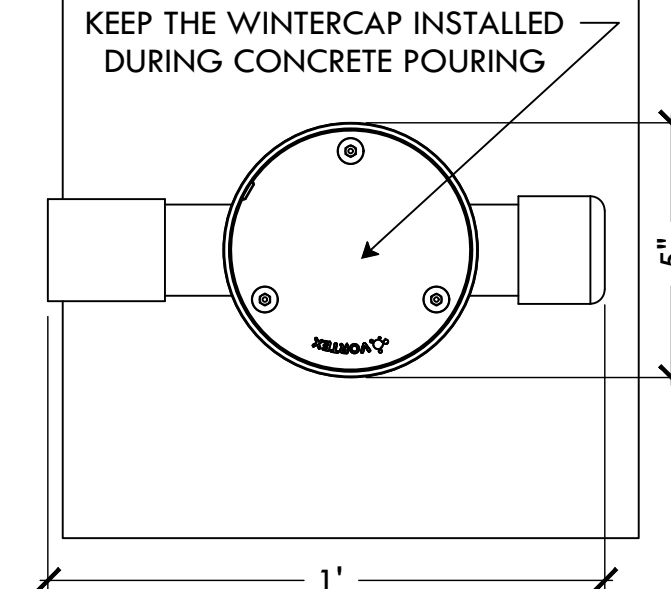
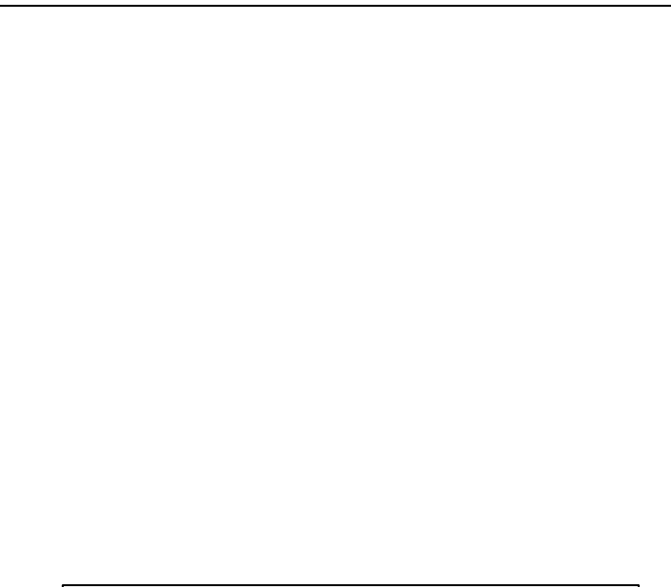
4 VOR 3006 - SPRAYLINK BLOOM
NOT TO SCALE



PLAN VIEW



PLAN VIEW



PLAN VIEW



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PROJECT:

**Site Improvements at
Cabral Park**

**515 Wickenden Street
Providence, RI**

REVISIONS:

#	Date	Issued For:
1	02/27/26	ADDENDUM #3
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-	-	-

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 01/28/2026
PROJECT NO: CPPG.23.01
DRAWN BY: NC/SG
CHECKED BY: MG

SHEET TITLE

**Construction
Details**

L-9.7

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PROJECT:
Site Improvements at Cabral Park
 515 Wickenden Street
 Providence, RI

REVISIONS:

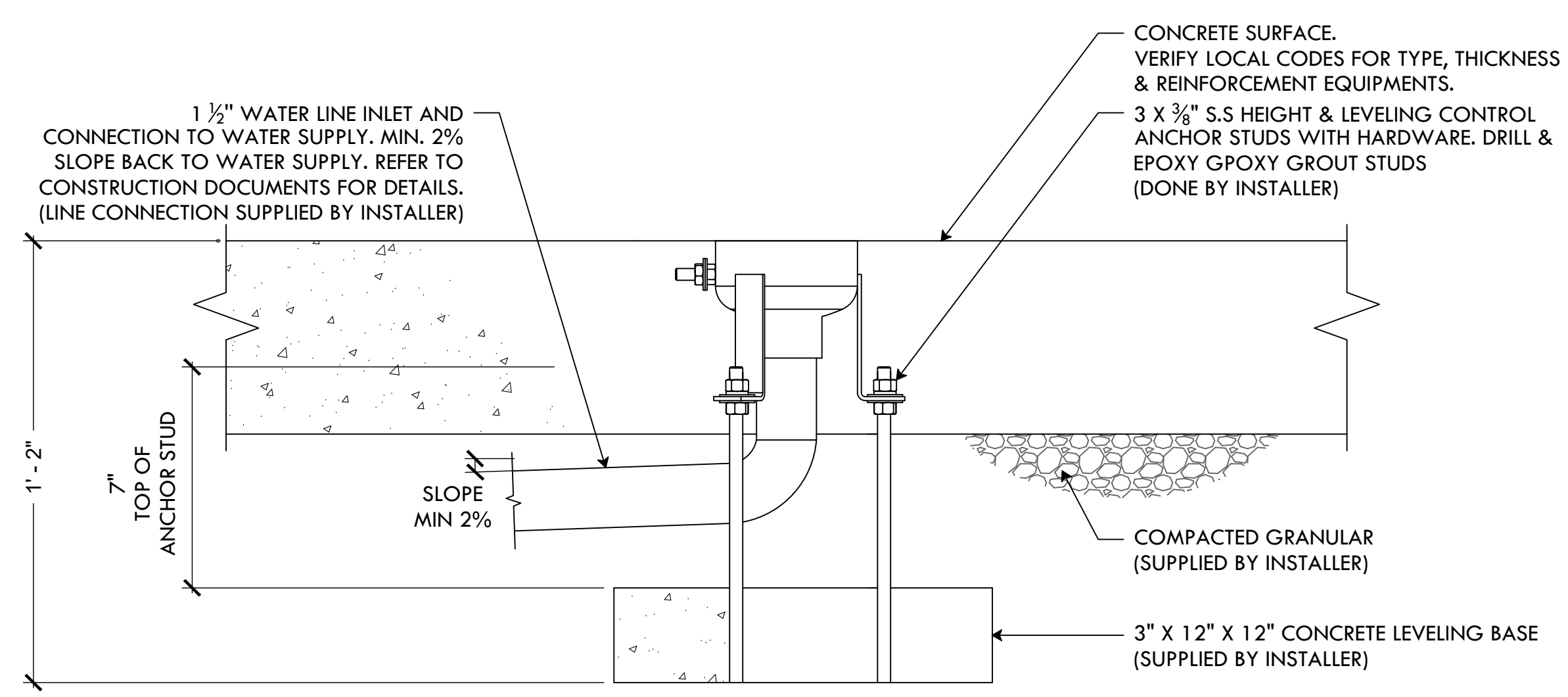
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NORTH ARROW

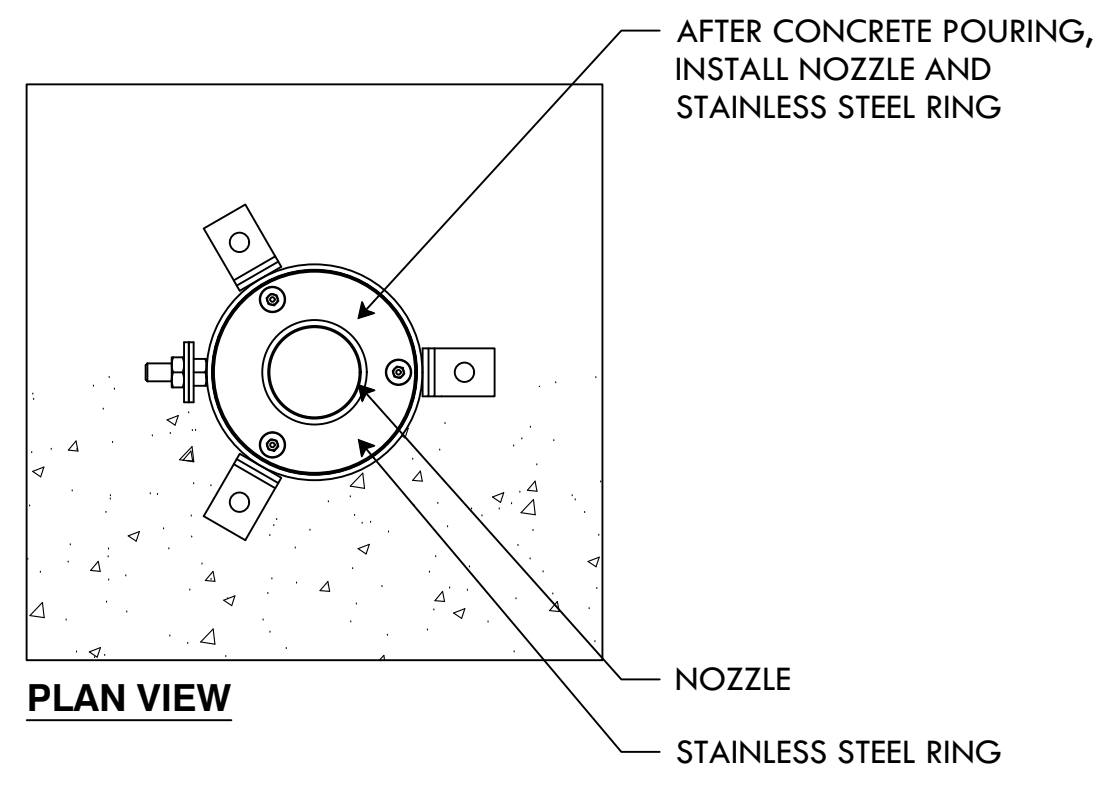
SCALE

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SHEET TITLE
Construction Details - Splashpad L-9.8

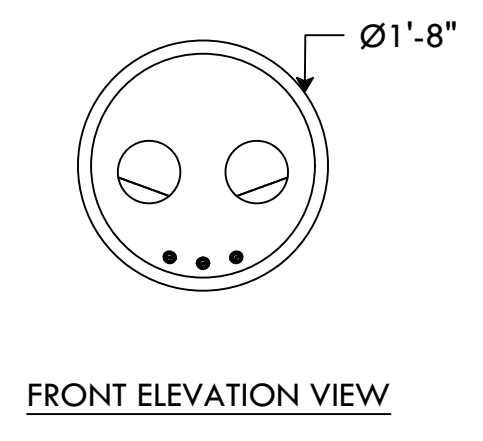


FRONT ELEVATION VIEW



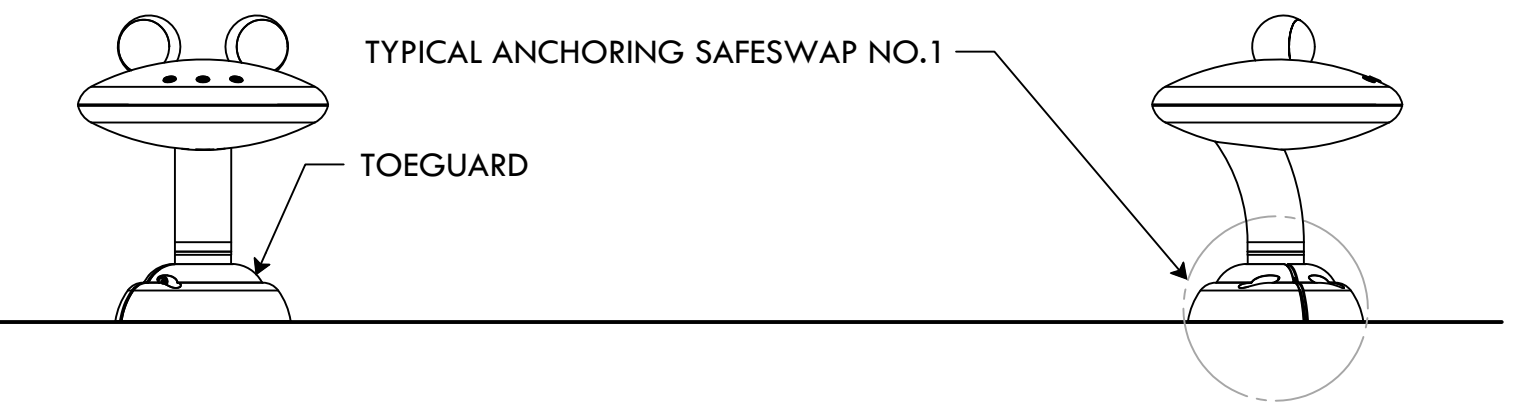
PLAN VIEW

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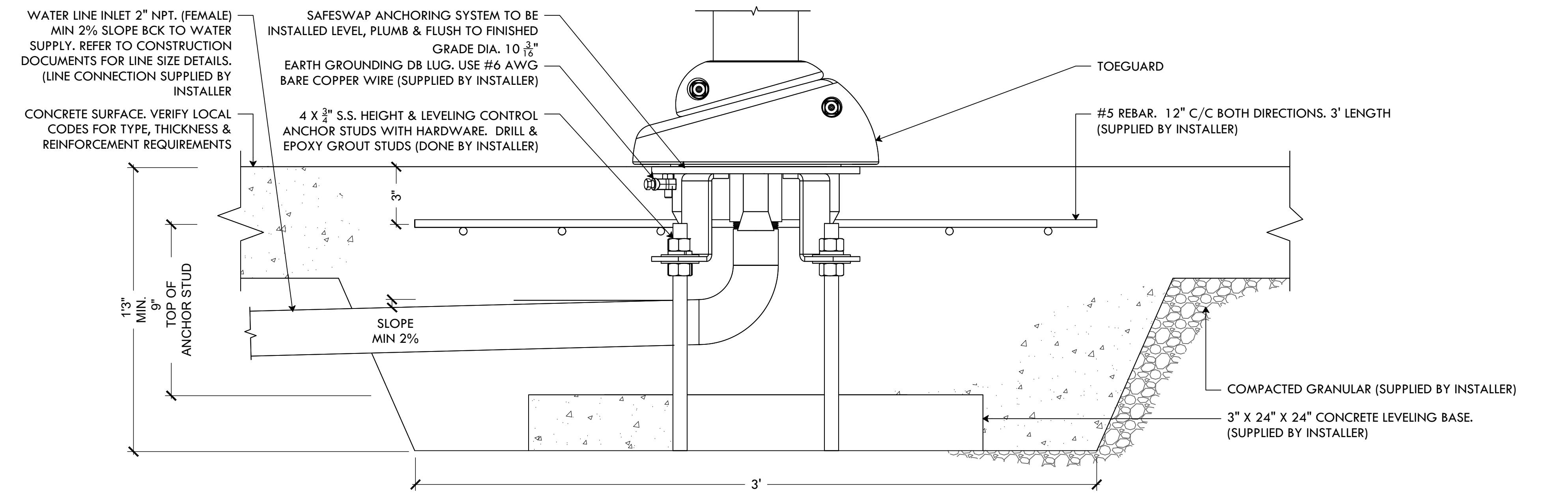
FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



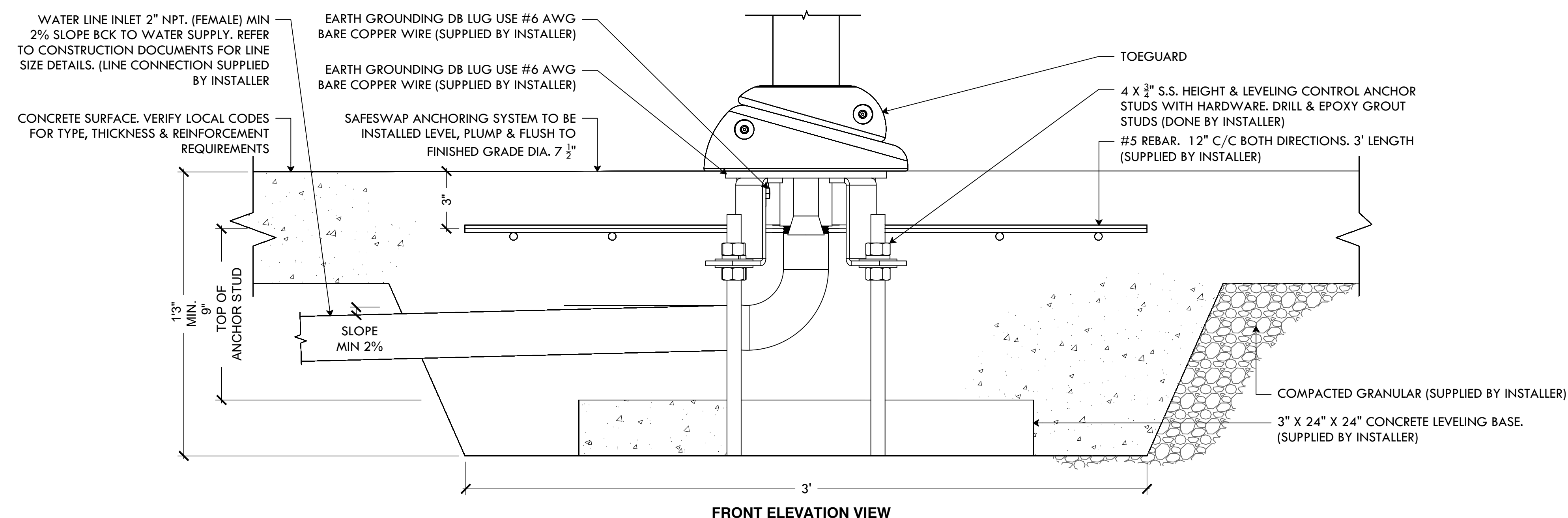
1 VOR 7010 - WATER JELLY NO. 1

NOT TO SCALE



2 VORTEX SAFESWAP NO.1 LARGE FOOTING - VOR 7201, 7217, 7270

NOT TO SCALE

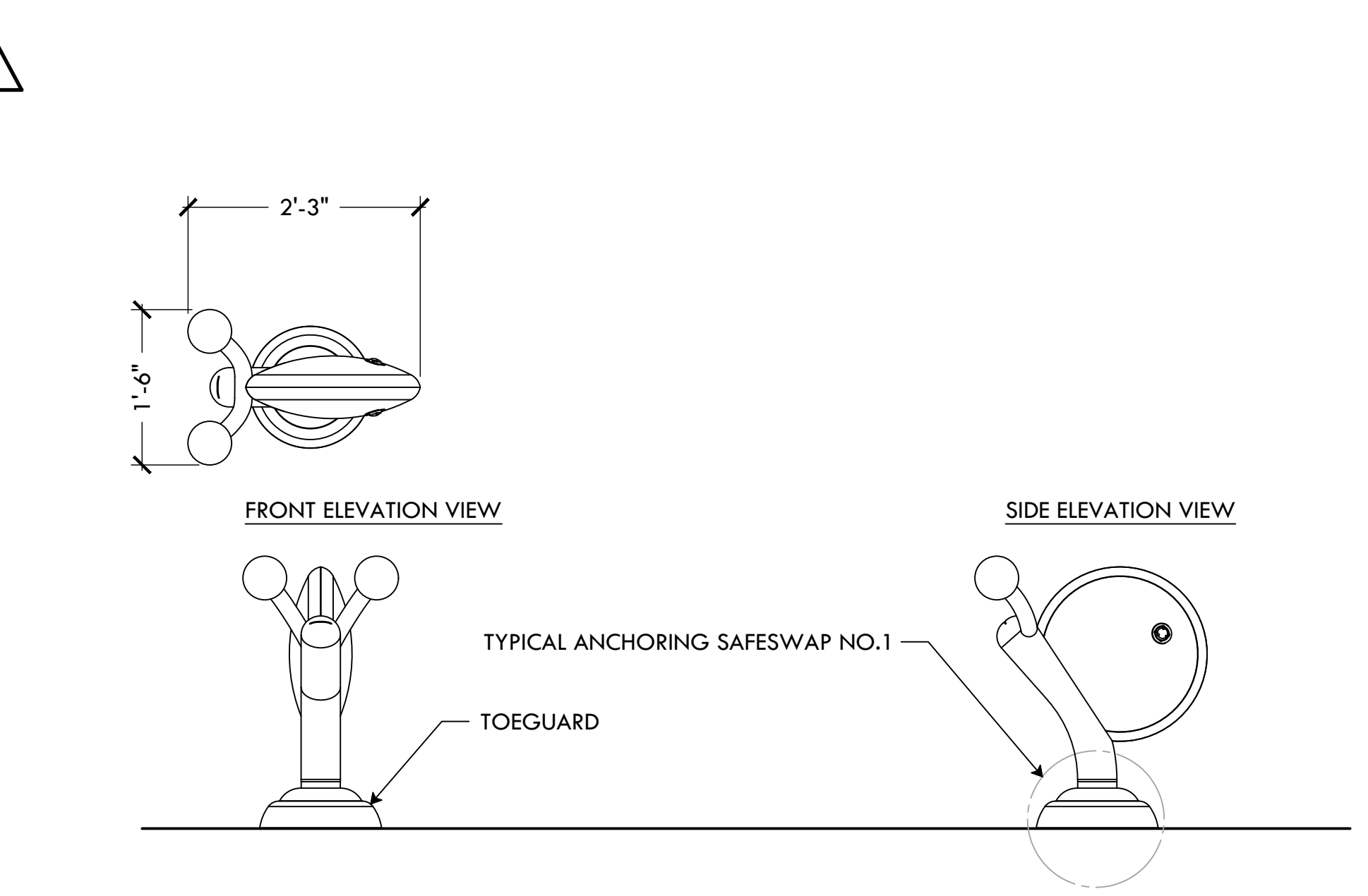


3 VORTEX SAFESWAP NO.2 MEDIUM FOOTING - VOR 7538, 7719, 7782

NOT TO SCALE

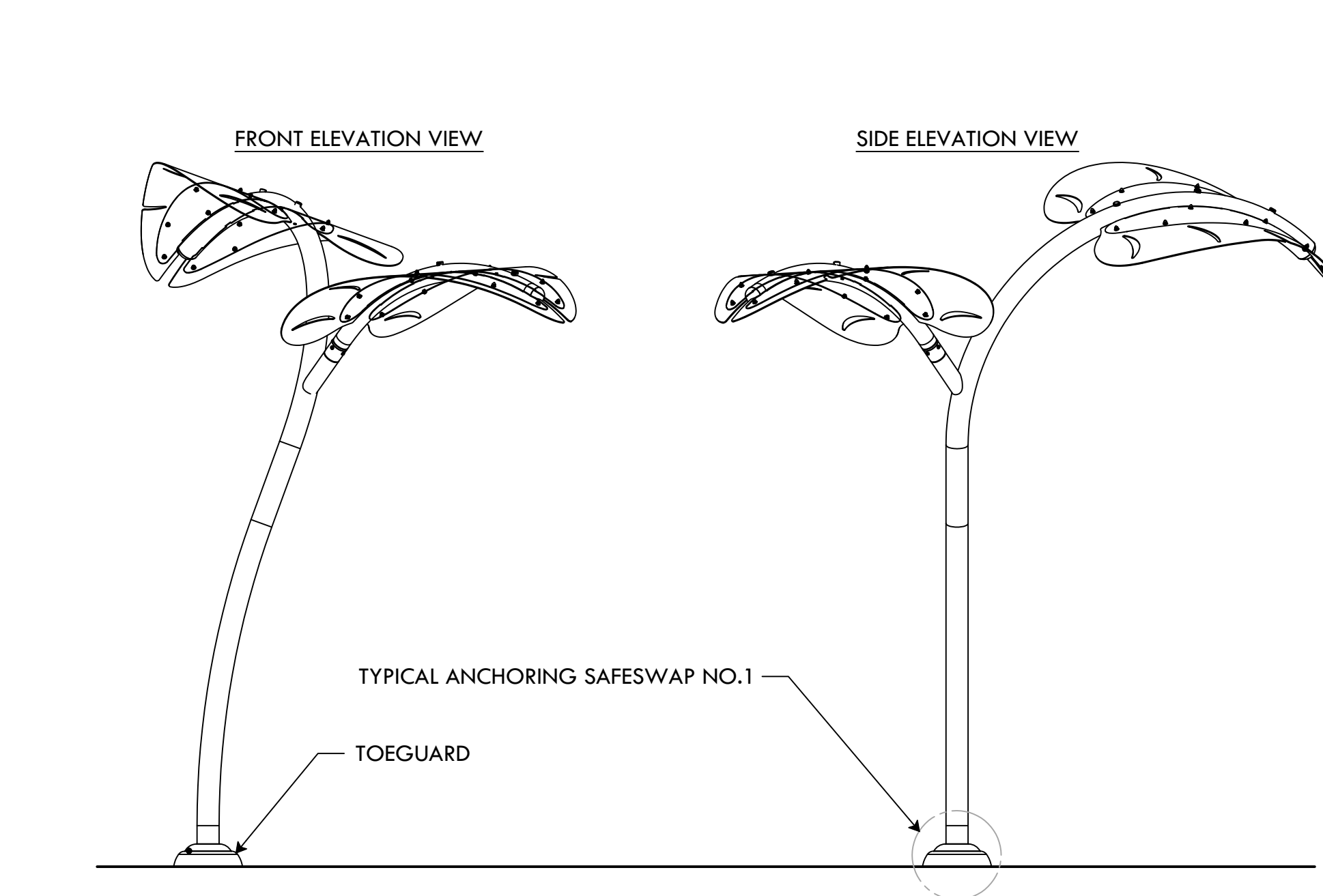
4 VOR 7201 - FROG NO.2

NOT TO SCALE



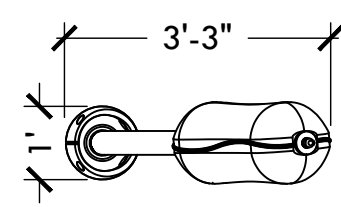
5 VOR 7217 - SNAIL NO.4

NOT TO SCALE

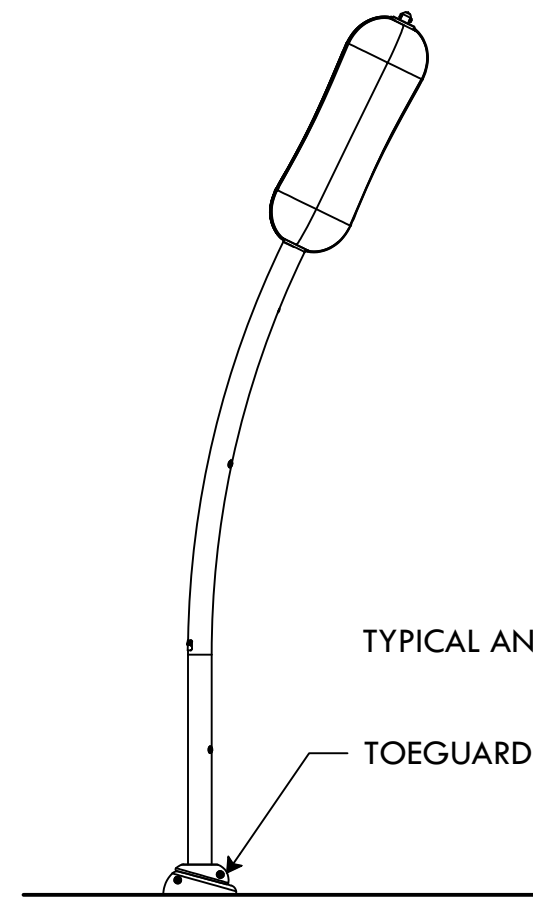


6 VOR 7270 - DOUBLE LEAVES

NTS

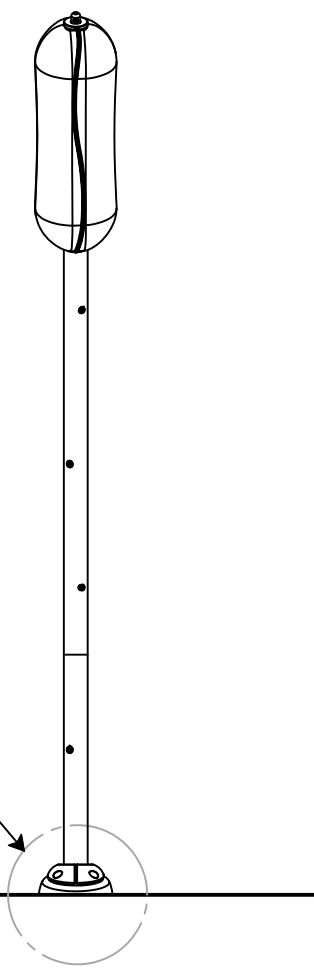


FRONT ELEVATION VIEW

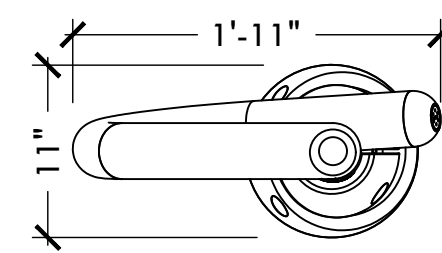


TYPICAL ANCHORING SAFESWAP NO.2
TOEGUARD

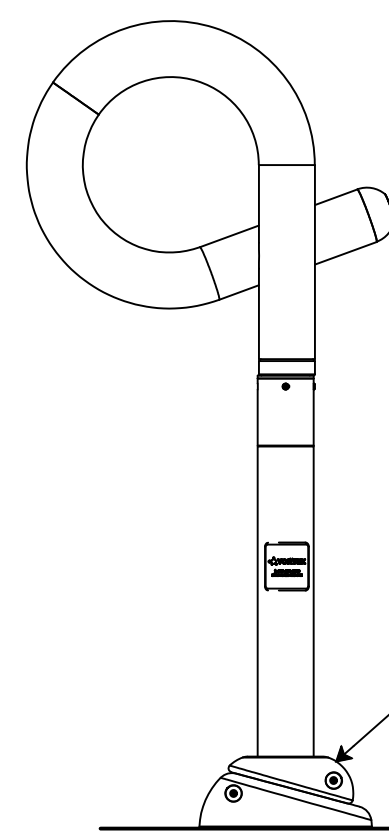
FRONT ELEVATION VIEW



1 VOR 7538 - CATTAIL
NOT TO SCALE

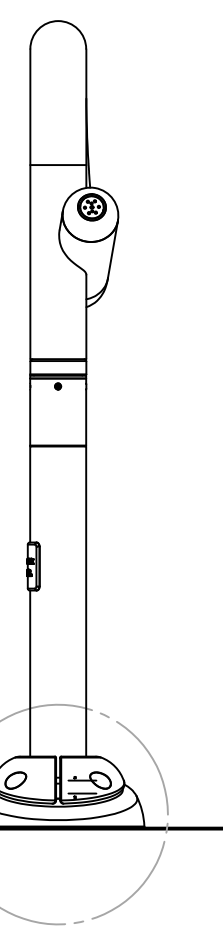


FRONT ELEVATION VIEW

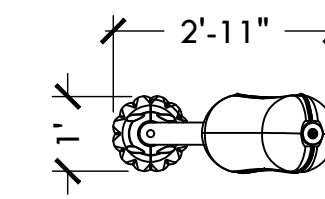


TYPICAL ANCHORING SAFESWAP NO.2
TOEGUARD

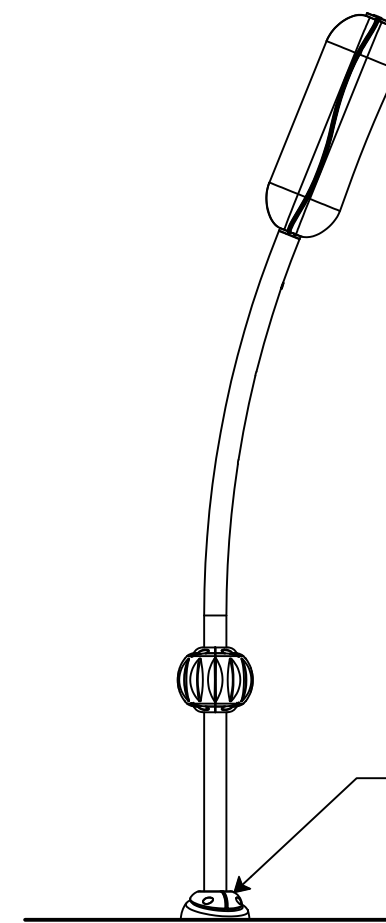
FRONT ELEVATION VIEW



2 VOR 7719 - LOOP NO.1
NOT TO SCALE

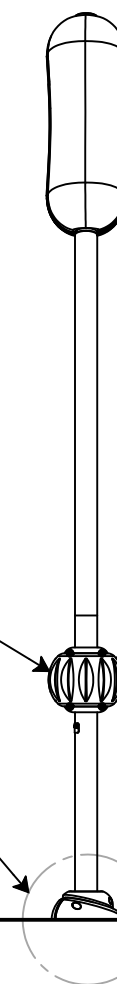


FRONT ELEVATION VIEW

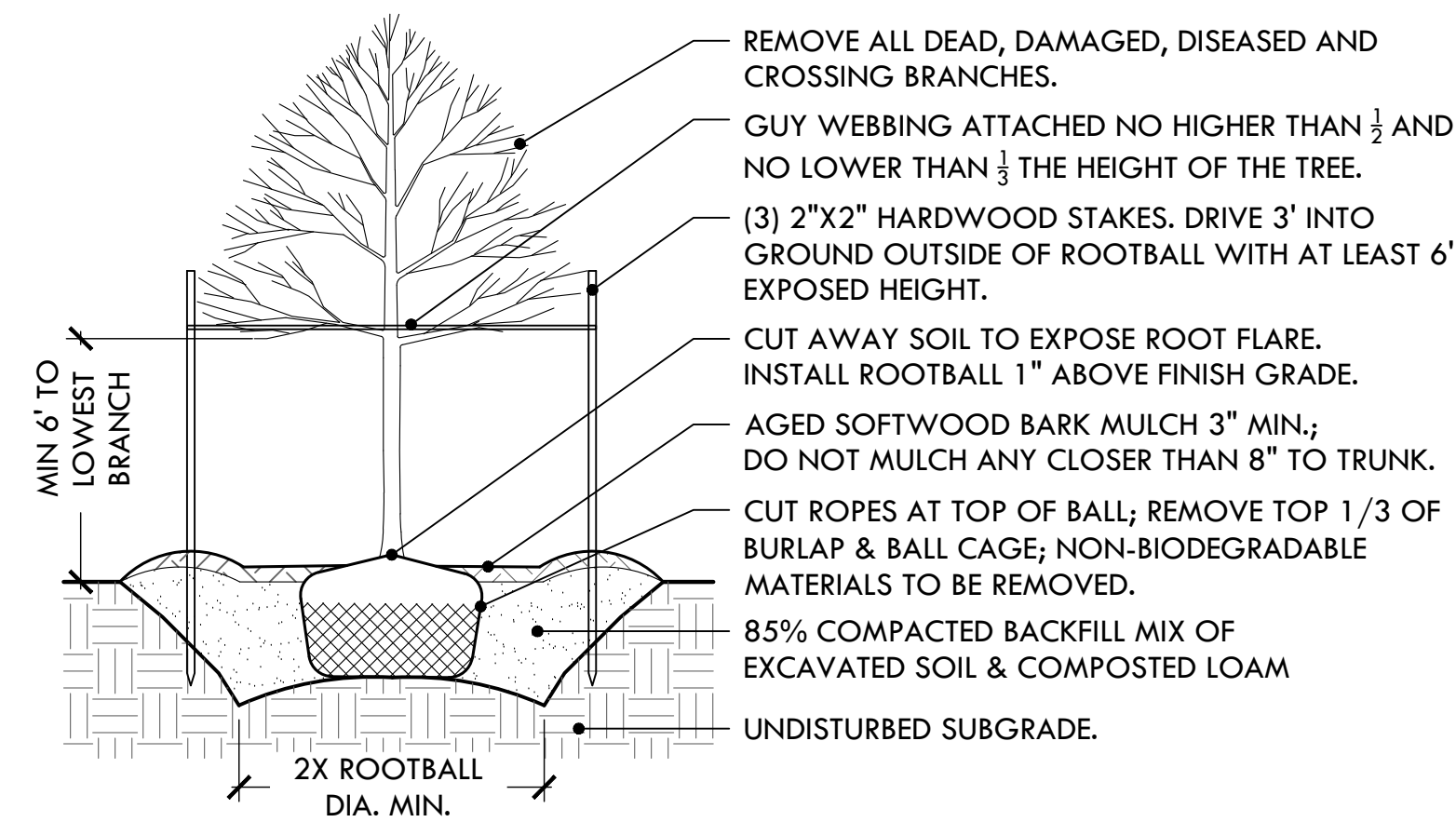


SOFT-TOUCH ROTATING SPHERE
TYPICAL ANCHORING SAFESWAP NO.2
TOEGUARD

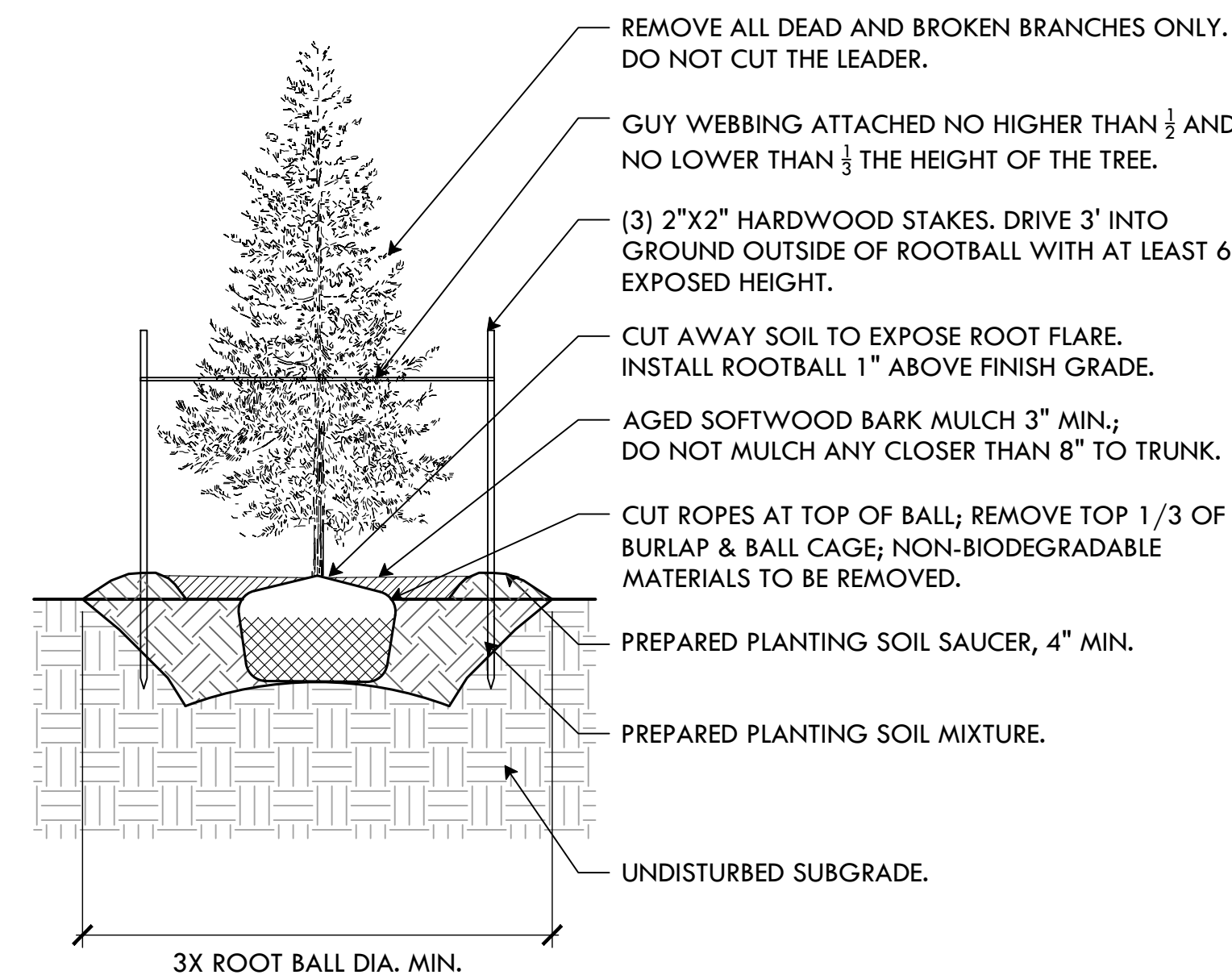
FRONT ELEVATION VIEW



3 VOR 7782 - CATTAIL TWIRL
NOT TO SCALE



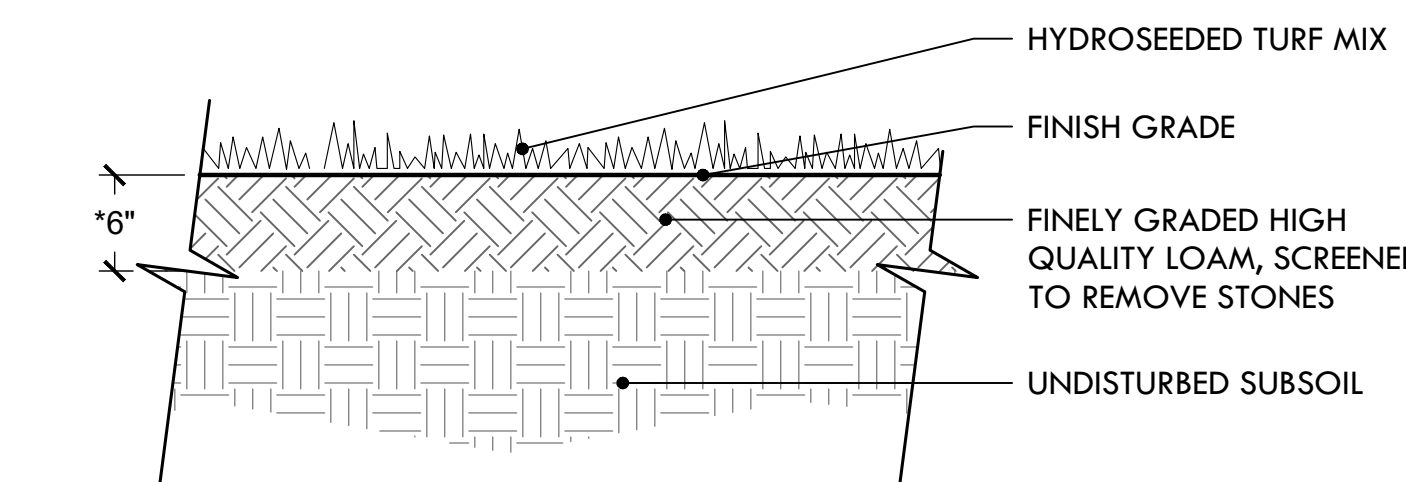
4 DECIDUOUS TREE PLANTING
NOT TO SCALE



4 EVERGREEN TREE PLANTING
NOT TO SCALE

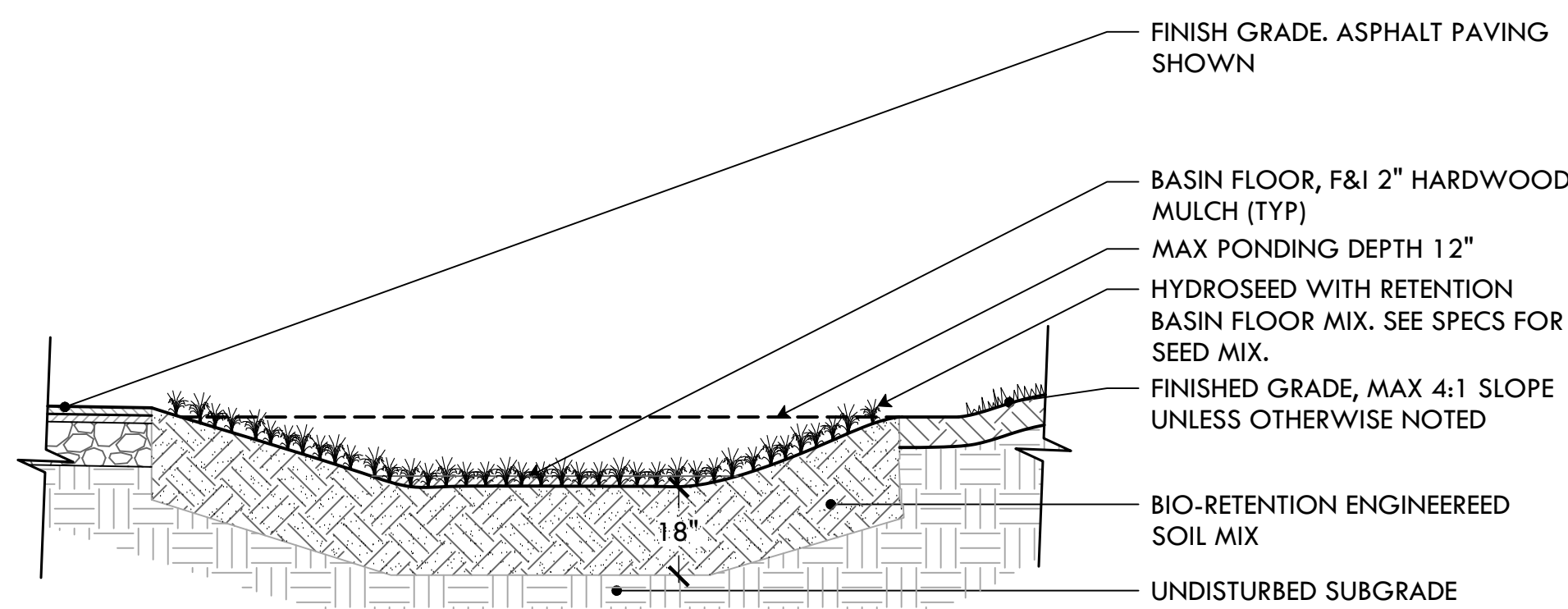
GRASS SEED MIX	
30%	IMPROVED PERENNIAL RYE
30%	TURF TYPE TALL FESCUE
30%	CHEWINGS FESCUE
5%	CREEPING RED FESCUE
5%	MINIATURE OR DUTCH WHITE CLOVER

BIO-SWALE - RETENTION BASIN FLOOR MIX - LOW MAINTENANCE:	
<i>Panicum clandestinum</i>	20%
<i>Puccinellia distans</i>	20%
<i>Elymus virginicus</i>	18%
<i>Agrostis stolonifera 'Penncross'</i>	15%
<i>Poa palustris</i>	15%
<i>Carex vulpinoidea</i>	10%
<i>Carex scoparia</i>	1%
<i>Juncus effusus</i>	1%
Seeding Rate: 1 lb/1,000 sf	



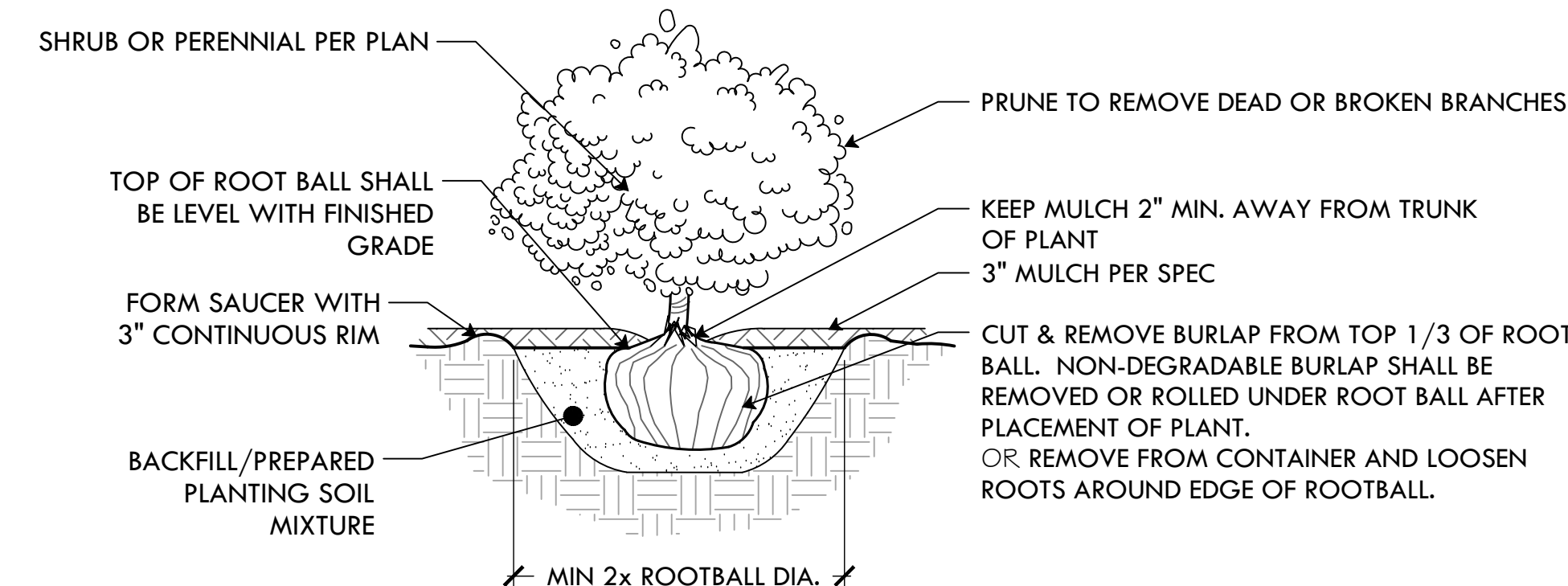
- NOTES:
- USE A PROCESSED WOOD FIBER MULCH OR WOOD/PAPER BLEND
 - ADD DOLOMITIC LIME AND SPECIFIED STARTER FERTILIZER TO LOAM PRIOR TO HYDROSEEDING
 - *DEPTH OF LOAM MAY BE LESS THAN 6" IN AREAS OF TRANSITION (FEATHERING) TO EXISTING LAWN AND FOR REPAIR TO DISTURBED AREAS.
 - LIGHTLY DISTURBED AREAS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

6 LOAM & HYDROSEED
NOT TO SCALE



- NOTES:
- BIORETENTION SOIL MIX TO CONSIST OF 85% LOAMY SAND BLENDED WITH SCREENED, HIGH QUALITY COMPOST.
 - MULCH TO BE CLEAN WOOD CHIPS ABLE TO PASS THROUGH A 1" SEIVE.

7 BIO RETENTION BASIN / SAND FILTER
NOT TO SCALE



8 SHRUB PLANTING
NOT TO SCALE



PROVIDENCE
PARKS DEPARTMENT
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



Providence
Parks

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STAMP

PROJECT:

Site Improvements at
Cabral Park

515 Wickenden Street
Providence, RI

REVISIONS:

#	Date	Issued For:
1	02/27/26	ADDENDUM #3
-	-	-
-	-	-

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 01/28/2026
PROJECT NO: CPPG.23.01
DRAWN BY: NC/SG
CHECKED BY: MG

SHEET TITLE

Construction
Details

L-9.9

22 OF 23

SPECIFICATIONS FOR CONSTRUCTION

1 GENERAL NOTES

- 1.1 THESE DESIGN DOCUMENTS WERE PREPARED BY 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL'S BEST JUDGMENT IN LIGHT OF THE INFORMATION AVAILABLE AT THE TIME OF PREPARATION. FOR THE PURPOSE OF THESE DESIGN DOCUMENTS, 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' IS SYNONYMOUS WITH 'VORTEX'.
- 1.2 VORTEX ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS BASED ON THESE DESIGN DOCUMENTS WITHOUT THE PREVIOUS CONSULTATION TO VORTEX.
- 1.3 ALL WORK, MATERIALS AND THEIR ASSEMBLIES SHALL CONFORM TO THE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE FOR ALL TRADES, AISC, ACNOR, EN, OR IBC.
- 1.4 THESE DESIGN DOCUMENTS DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. WHEN APPLICABLE, THE CONTRACTORS SHALL SUPERVISE AND DIRECT ALL THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.
- 1.5 DO NOT SCALE DRAWINGS.
- 1.6 USE ONLY THOSE MARKED "ISSUED FOR CONSTRUCTION".
- 1.7 THE CONTRACTOR SHALL REVIEW THESE DESIGN DOCUMENTS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE VORTEX IMMEDIATELY.
- 1.8 TEMPORARY SUPPORTS, WHICH WILL BE REQUIRED DURING CONSTRUCTION, SUCH AS FORMWORK, BRACING, SHORING, ETC. ARE NOT SHOWN ON THESE DRAWINGS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED.
- 1.9 THE FOLLOWING SPECIFICATIONS ARE VORTEX'S MINIMUM RECOMMENDATIONS TO OBTAIN A QUALITY PRODUCT. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE RESTRICTIVE.
- 1.10 ALL SEEFLOW COMPONENTS TO BE SNUG-TIGHT ONLY. USING POWER TOOLS OR TIGHTEN HARDWARE FULLY-TENSIONED CAN PRODUCE CRACKING ON THE PLASTIC.

2 EXCAVATION

- 2.1 ANY SHORING OR TEMPORARY SHORING NOT SHOWN ON DRAWINGS WILL BE EXECUTED, IN A SAFE MANNER, BY THE GENERAL CONTRACTOR.
- 2.2 IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY THE EXISTENCE OF ANY UNDERGROUND SERVICES ETC.
- 2.3 IF AVAILABLE, REFER TO SOIL REPORT FOR BACKFILL REQUIREMENTS. ALL BACKFILL (FOR SLAB ON GRADE, ETC.) MUST BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED PROFESSIONAL. USE ONLY FREE DRAINING, GRANULAR, MINERAL, INERT AND NON- REACTIVE FILL.

3 FOUNDATIONS

- 3.1 REFER TO SOIL REPORT FOR RECOMMENDATIONS.
- 3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR ENGINEERED BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA (2000 PSF) AND MAXIMUM DIFFERENTIAL SETTLEMENT OF 19 MM (0.75"). ALL ORGANIC MATERIAL SHALL BE REMOVED.
- 3.3 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SOIL AT ALL FOOTING LOCATIONS BE VERIFIED BY A QUALIFIED SOILS EXPERT BEFORE POURING FOOTINGS TO ENSURE FOOTINGS REST ON APPROPRIATE STRATA.
- 3.4 WHEN APPLICABLE, FOLLOW GEOTECHNICAL EXPERT RECOMMENDATIONS FOR ALL EXTERIOR FOOTINGS TO ENSURE FROST PROTECTION.

4 CONCRETE

- 4.1 ALL CONCRETE MATERIALS, PROCEDURES, TOLERANCES & WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUES OF ACI-318 AND ACI 317 OR ACNOR CAN3-A23.1 & A23.2, DEPENDING ON PROJECT LOCATION.
- 4.2 CONCRETE THAT HAS BEEN IN THE TRUCKS LONGER THAN 2 HOURS SHALL BE REJECTED. DO NOT ADD WATER TO THE CONCRETE IN THE TRUCKS OR ON THE SITE UNDER ANY CIRCUMSTANCES.
- 4.3 USE MAXIMUM 76mm (3") SLUMP, 19mm (3/4") AGGREGATE, UNLESS OTHERWISE-NOTED. USE 5-7% AIR ENTRAINMENT FOR CONCRETE EXPOSED TO WEATHER ONLY.
- 4.4 ALL GROUT SHALL BE NON-SHRINK TYPE WITH A MINIMUM 28 DAYS STRENGTH OF 35.0 MPA (5000 PSI). USE 25 MM (1") GROUT UNDER ALL STEEL COLUMN BASE PLATES.
- 4.5 CONCRETE STRENGTH @ 28 DAYS TO BE:
 - 4.5.1 FOUNDATIONS (FOOTINGS): 25.0 MPA (3500 PSI), UNLESS OTHERWISE NOTED.
 - 4.5.2 INTERIOR SLAB ON GRADE: 25.0 MPA (3500 PSI), UNLESS OTHERWISE NOTED.
 - 4.5.3 EXTERIOR SLAB ON GRADE: 32.0 MPA (4500 PSI), UNLESS OTHERWISE NOTED.
- 4.6 MINIMAL RE-BAR COVER:
 - 4.6.1 CONCRETE POURED ON-GRADE = 76mm (3") COVER
 - 4.6.2 CONCRETE POURED INTO FORMWORK BUT EXPOSED TO SOIL AND WEATHER FOR REBAR 15m (#4) AND UNDER = 50mm (2") COVER

5 REINFORCING STEEL

- 5.1 DEPENDING ON PROJECT LOCATION, ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (BARS 15m (#4) TO BE GRADE 60 WITH SUPPLEMENTARY REQUIREMENTS ON 51. BARS SMALLER THAN 15m (#4), TO BE GRADE 40); OR TO ACNOR GRADE G30.12 (FY = 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED).
- 5.2 USE CONCRETE, PLASTIC OR STEEL SUPPORT BARS, AS PER ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES). THE RE-BAR PLACER MUST REMAIN ON-SITE DURING POURS TO VERIFY CORRECT POSITIONING OF RE-BARS. SLANT UPPER REINFORCING STEEL IN LINE WITH THE SLOPE OF THE SLAB, IF APPLICABLE.
- 5.3 BARS SHALL BE SECURELY WIRED PER LATEST EDITION OF CRSI (RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS).
- 5.4 ALL REINFORCING STEEL IS TO BE KEPT CLEAN AND FREE OF MUD, SNOW, ICE, AND ANY CONTAMINANTS.
- 5.5 VERTICAL AND CONTINUOUS REBAR SHALL BE LAPPED TO DEVELOP FULL TENSILE CAPACITY OF THE BAR. FOR 15M (#4) BARS MINIMUM LAP OF 610mm (24").
- 6 EXTERIOR / INTERIOR SLAB ON GRADE
 - 6.1 FOLLOW THE GEOTECHNICAL EXPERT RECOMMENDATIONS FOR PREPARATION OF SOIL BEFORE POURING THE CONCRETE. ALL GRANULAR MATERIAL SHALL BE MOISTENED IMMEDIATELY BEFORE POURING THE CONCRETE. WATER AS NEEDED. DO NOT USE A VAPOR BARRIER.
 - 6.2 NO TRUCKS ARE PERMITTED ON THE CONSTRUCTION SITE (OF THE SLAB) AFTER THE FINAL COMPACTION, EITHER BEFORE OR DURING, THE POUR.
 - 6.3 SLAB TO BE MINIMUM 6" THICK, REINFORCED WITH 10m (#3) @ 300mm (12") C/C REBAR PLACED IN BOTH DIRECTIONS AT MID-HEIGHT OF THE SLAB, UNLESS OTHERWISE NOTED ON PLANS. FOR ELEVATION/PLAYNUK REQUIREMENT OF THICKENED SLAB/MANIFOLD LOCATION, REFER TO ELEVATION INSTALLATION PACKAGE FOR DETAILS.
 - 6.4 REFER TO CONCRETE SECTION FOR MINIMUM COMPRESSIVE STRENGTH AND AIR-ENTRAINMENT REQUIREMENTS.

6.5 FINISHING WILL BE MEDIUM BROOM.

- 6.6 CONTROL JOINTS (SAW-CUTS) TO BE LOCATED IN EACH DIRECTION, AT REGULAR INTERVALS, WITH A MAXIMUM DISTANCE OF 3 METERS (10 FEET). SHALL BE MINIMUM 3 MM (1/8") WIDE AND SHALL PENETRATE THE SLAB TO A MINIMUM DEPTH OF 1/3 OF THE THICKNESS OF THE SLAB. CONTROL JOINTS SHOULD BE DONE AS SOON AS POSSIBLE WITHOUT DAMAGING THE CONCRETE, BUT NO LATER THAN 18 HOURS AFTER POURING.
- 6.7 WHEN POSSIBLE AND TO AVOID SHRINKAGE CRACKING, HUMIDITY SHALL BE MAINTAINED FOR 7 DAYS DURING THE CURING PERIOD OF THE SLAB. WATER AND USE POLYETHYLENE CLOTH OR BAG. THE CONCRETE MUST DRY UNIFORMLY.
- 7 CONCRETE WORK IN COLD OR HOT WEATHER (MINIMUM REQUIREMENTS)
 - 7.1 COLD WEATHER REQUIREMENTS APPLY WHEN THE MEAN AIR IS LESS THAN 5 DEGREES CELSIUS (40 DEGREES FAHRENHEIT).
 - 7.2 GENERAL REQUIREMENTS FOR COLD WEATHER CONCRETE WORK SHALL BE AS PER ACI 306R-88; OR AS PER THE NBC'S LATEST REQUIREMENTS INCLUDING THE LATEST ISSUE OF CSA STANDARD CAN3-A23.1.
 - 7.3 ALL SNOW AND ICE SHALL BE REMOVED FROM FORMS AND REBAR WITH STEAM AND COMPRESSED AIR BEFORE POURING. DO NOT USE DE-ICING SALT (CALCIUM CHLORIDE) OR ANY OTHER SALTS UNDER ANY CIRCUMSTANCES.
 - 7.4 CONCRETE SHALL HAVE A MINIMUM TEMPERATURE OF 20 DEGREES CELSIUS AND A MAXIMUM TEMPERATURE OF 25 DEGREES CELSIUS WHILE POURING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS ARE SATISFIED. ANY CONCRETE THAT DOES NOT CONFORM MUST BE REJECTED.
 - 7.5 THE SURFACE OF POURED CONCRETE SHALL BE PROTECTED BY MEANS OF SUITABLE COVERINGS AND INSULATION (TO BE DETERMINED BY TEMPERATURE) DURING THE CURING PROCESS.
- 7.6 GENERAL REQUIREMENTS FOR HOT WEATHER CONCRETE WORK SHALL BE AS PER ACI 305R-99; OR AS PER LOCAL CODE REQUIREMENTS.

8 PIPING

- 8.1 WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS
- 8.2 ANY REQUIRED WATER METER ON THE CITY WATER MAIN SHALL BE PROVIDED BY OTHER. PRESSURE REGULATOR AND BACKFLOW PREVENTER WILL BE PROVIDED BY VORTEX
- 8.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.
- 8.4 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 100 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 100 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.
- 8.5 QUANTITY AND LOCATION OF DRAINS BASED ON MAXIMUM FLOW FOR THE INDICATED PIPE DIAMETER AT 1% SLOPE. MODIFICATIONS MAY BE REQUIRED DUE TO SPECIFIC SITE CONDITIONS AND LOCAL CODE.
- 8.6 PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.7 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.
- 8.9 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.10 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.
- 8.12 VALVE NUMBER 1 IS LOCATED TO THE LEFT OF THE MANIFOLD FACING THE SOLENOID.
- 8.13 MINIMUM 50 PSI REQUIRED AT THE INLET OF THE BACKFLOW PREVENTER AND PRESSURE REGULATING DEVICE.
- 8.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 72 GPM.
- 8.15 TOTAL FLOW OF FEATURES IS 91 GPM.
- 8.16 FACTORY MAXIMUM SEQUENCING FLOW IS 50 GPM ACTUAL FLOW MAY VARY DUE TO SITE CONDITIONS.

9 ELECTRICAL

- 9.1 EQUIPMENT BONDING; FEATURES SHALL BE CONNECTED TO AN EQUIPOTENTIAL BONDING GRID WITH A SOLID RIGID COPPER CONDUCTOR, THE MINIMUM SIZE OF BONDING CONDUCTORS NOT BE SMALLER THAN #6 AMERICAN WIRE GAUGE (AWG) (13.3mm²) COPPER. BOND TO ALL METALLIC PARTS LOCATED IN THE SPLASHPAD/POOL AND TO THE REBAR, TO RUN CONTINUOUS TO THE WATER PUMP AND ELECTRICAL SUPPLY PANELS. SEE ELEVATION INSTALLATION DRAWING FOR BONDING DETAILS (BY OTHER).
- 9.2 GRID STRUCTURE; THE EQUIPOTENTIAL BONDING GRID SHALL COVER THE CONTOUR OF THE WATER BODY AREA AND ANY DECK EXTENDING 3FT (1m). HORIZONTALLY FROM THE INSIDE WALLS OF THE SPLASHPAD/WATER BODY. THE EQUIPOTENTIAL BONDING GRID SHALL BE ARRANGED IN A 12 IN (300mm). BY 12 IN (300mm). NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH TOLERANCE OF 4 IN (100mm). A J-JUNCTION BOND CLAMP (DIRECT BURIAL CERTIFIED) CLAMPED TO A REBAR WITH WIRE LOOPED THROUGH CONNECTOR AND CLAMPED TO STEEL AND TO THE SPLASHPAD/POOL PUMP WATER
- 9.3 ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED; THE FOLLOWING EQUIPMENT SHALL BE GROUNDED. ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 5FT (1.5 m) OF THE INSIDE WALL OF THE SPECIFIED BODY OF WATER. THIS EQUIPMENT ALSO INCLUDES (BUT NOT LIMITED TO); FEATURES, ELEVATIONS, DRAIN, REBAR, WATER INLET, SKIMMER, LADDER, SLIDES, DIVING STRUCTURE, UNDERWATER LIGHTING, JUNCTION BOXES, AND WATER CIRCULATING/HEATING EQUIPMENT. ALL BONDING AND GROUNDING MUST COMPLY WITH NEC, CEC, AND LOCAL CODES.
- 9.4 ALTERNATE MEANS; WHERE STRUCTURAL REINFORCING STEEL IS NOT AVAILABLE OR IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR(S) SHALL BE UTILIZED WHERE THE FOLLOWING REQUIREMENTS ARE MET: (1) AT LEAST ONE MINIMUM 6 AWG BARE SOLID COPPER CONDUCTOR SHALL BE PROVIDED. (2) THE CONDUCTORS SHALL FOLLOW THE CONTOUR OF THE PERIMETER SURFACE. (3) ONLY LISTED SPLICES SHALL BE PERMITTED. (4) THE REQUIRED CONDUCTOR SHALL BE 450mm TO 18 TO 24 IN (600mm) FROM THE INSIDE WALLS OF THE POOL. (5) THE REQUIRED CONDUCTOR SHALL BE SECURED WITHIN OR UNDER THE PERIMETER SURFACE (4 IN TO 6 IN (100mm TO 150mm)). BELOW THE SUBGRADE.
- 9.5 SPLASHPAD/POOL WATER; WHERE NONE OF THE BONDED PARTS IS IN DIRECT CONNECTION WITH THE POOL WATER, THE POOL WATER SHALL BE IN DIRECT CONTACT WITH AN APPROVED CORROSION-RESISTANT CONDUCTIVE SURFACE THAT EXPOSED NOT LESS THAN 9 IN.2 (5800mm²) OF SURFACE AREA TO THE POOL WATER AT ALL TIMES. THE CONDUCTIVE SURFACE SHALL BE LOCATED WHERE IT IS NOT EXPOSED TO PHYSICAL DAMAGE OR DISLODGEEMENT DURING USUAL POOL ACTIVITIES, AND IT SHALL BE BONDED IN ACCORDANCE WITH NEC, CEC, AND LOCAL CODES.

- 9.6 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG. A TOTAL OF TWO (2) CONDUCTORS PER ACTIVATOR. CABLE LENGTH UP TO 300' (100m), PROVIDED BY OTHER.
- 9.7 ALL CONNECTIONS TO THE CONTROLLER AND OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVED NEMA 4X CONNECTOR.
- 9.8 WIRE FROM MAIN POWER TO VORTEX PANEL TO BE DETERMINED BY OTHERS RESPECTING THE LOCAL CODE.
- 9.9 MAINTAIN A MINIMUM CLEARANCE ZONE OF 36" IN FRONT OF ELECTRICAL PANEL, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 9.10 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER AND ANY OTHER ELECTRICAL ENCLOSURES MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FROM THE INPUT POWER SOURCE.
- 9.11 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES.
- 9.12 THE MAESTROPRO CONTROL PANEL IS POWERED THROUGH A MAESTROPRO POWER BOX.
- 9.13 THE POWER CABLE TO MAESTROPRO POWER BOX IS SUPPLIED BY OTHER.
- 9.14 THE MAESTROPRO CONTROL PANEL INTEGRATES 24 DIGITAL OUTPUTS WITH 24 VAC AND 12 DIGITAL INPUTS.
- 9.15 FOR REMOTE ACCESS ABILITY, A HARD CONNECTION TO AN EXISTING NETWORK IS REQUIRED USING A CAT 5 CABLE OR A CELLULAR NANO-SIM CARD WITH DATA-PLAN.
- 9.16 IT IS THE CUSTOMER/INSTALLER RESPONSIBILITY TO MAKE THE FIELD INSTALLATION NEMA 4X COMPLIANT - THE INSTALLATION MUST COMPLY WITH LOCAL ELECTRICAL CODE REQUIREMENTS AND BE APPROVED BY LOCAL ELECTRICAL INSPECTION AUTHORITIES. CONTROLLER AND/OR CONTROL PANEL NOT TO BE INSTALLED IN DIRECT SUNLIGHT.



FOR APPROVAL

CLIENT HAS REVIEWED ELECTRICAL, WATER AND DRAINING REQUIREMENTS PROVIDED IN THIS DRAWING. CLIENT TO HIGHLIGHT ANY DISCREPANCIES OR CHANGES REQUIRED.

**O APPROVED AS SHOWN
O APPROVED AS NOTED.
O REVISE AND RESUBMIT AS NOTED.**

PLEASE NOTE THAT THE DRAWING IS ASSUMED APPROVED BY CLIENT IF NO COMMENTS ARE MADE WITHIN 2 WEEKS OF RECEIPT OF THIS DRAWING.

**SIGNATURE :
DATE:**



VORTEX USA Inc.
3500 South Dupont Highway, Suite EP-101
Dover, Delaware
United States 19901
Phone: +1 (877) 586-7839

Cabral Park

Drawing #	Drawing Name	Rev
A-001	Site Layout	01
PE-001	Plumbing & Electrical Layout	01
E-001	Bonding Layout	01

Abbreviations	
A	Architectural
C	Civil Work
P	Plumbing Layout
PD	Plumbing Details
E	Electrical Layout
ED	Electrical Details
FT	Feature Drawings



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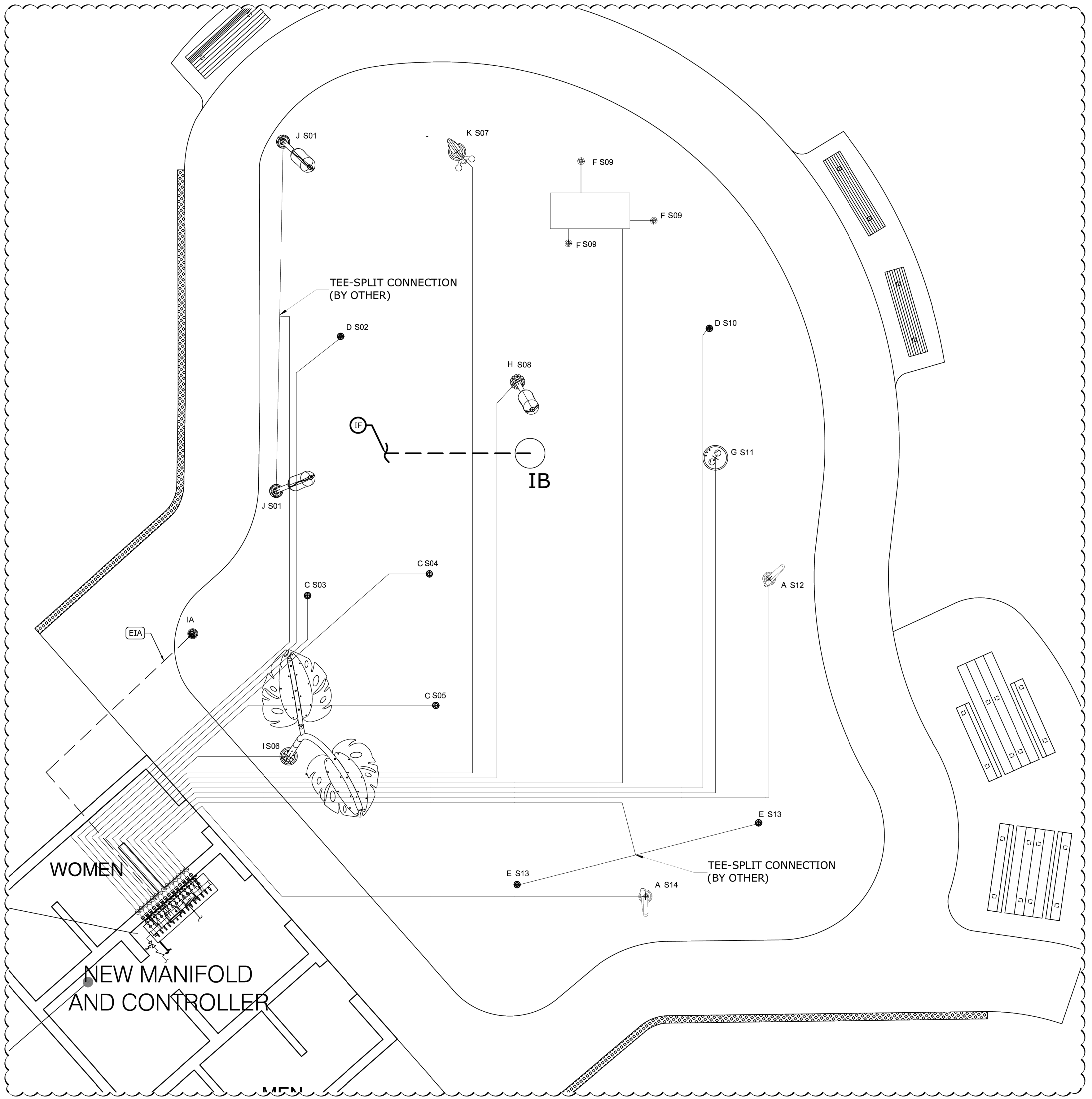
Cabral Park

Feature Connection Table							
Manifold Output Ref.	Solenoid Valve	Feature Ref.	Feature	Qty	Line Size	Gpm	Output (ID1)
S01	1" Std	J	Cattail VOR 7538	2	1"	8.0	1
S02	1" Std	D	Spraylink™ Geysers VOR 3005	1	1"	5.0	2
S03	1" Std	C	Spraylink™ Jet N°1 VOR 3000	1	1"	2.5	3
S04	1" Std	C	Spraylink™ Jet N°1 VOR 3000	1	1"	2.5	4
S05	1" Std	C	Spraylink™ Jet N°1 VOR 3000	1	1"	2.5	5
S06	1" Std	I	Double Leaves VOR 7270	1	1"	8.0	6
S07	1" Std	K	Snail N°4 VOR 7217	1	1"	6.5	7
S08	1" Std	H	Cattail Twirl VOR 7782	1	1"	3.0	8
S09	1" Std	F	Water Jelly N°1 VOR 7010	3	1 1/2"	18.0	9
S10	1" Std	D	Spraylink™ Geysers VOR 3005	1	1"	5.0	10
S11	1" Std	G	Frog N°2 VOR 7201	1	1"	4.0	11
S12	1" Std	A	Loop N°1 VOR 7719	1	1"	5.0	12
S13	1" Std	E	Spraylink™ Bloom VOR 3006	2	1 1/2"	16.0	13
S14	1" Std	A	Loop N°1 VOR 7719	1	1"	5.0	14

Electrical Line Connections Power					
Product Code	From	To	# Conductors	Gauge/Type	Note
PA	Main Power Line (by Owner)	ID2-120VAC	3	TBD (by Other)	120V, 1 Phase, 60Hz, 10Amps Breaker Recommended ± 5% Voltage Drop is Acceptable

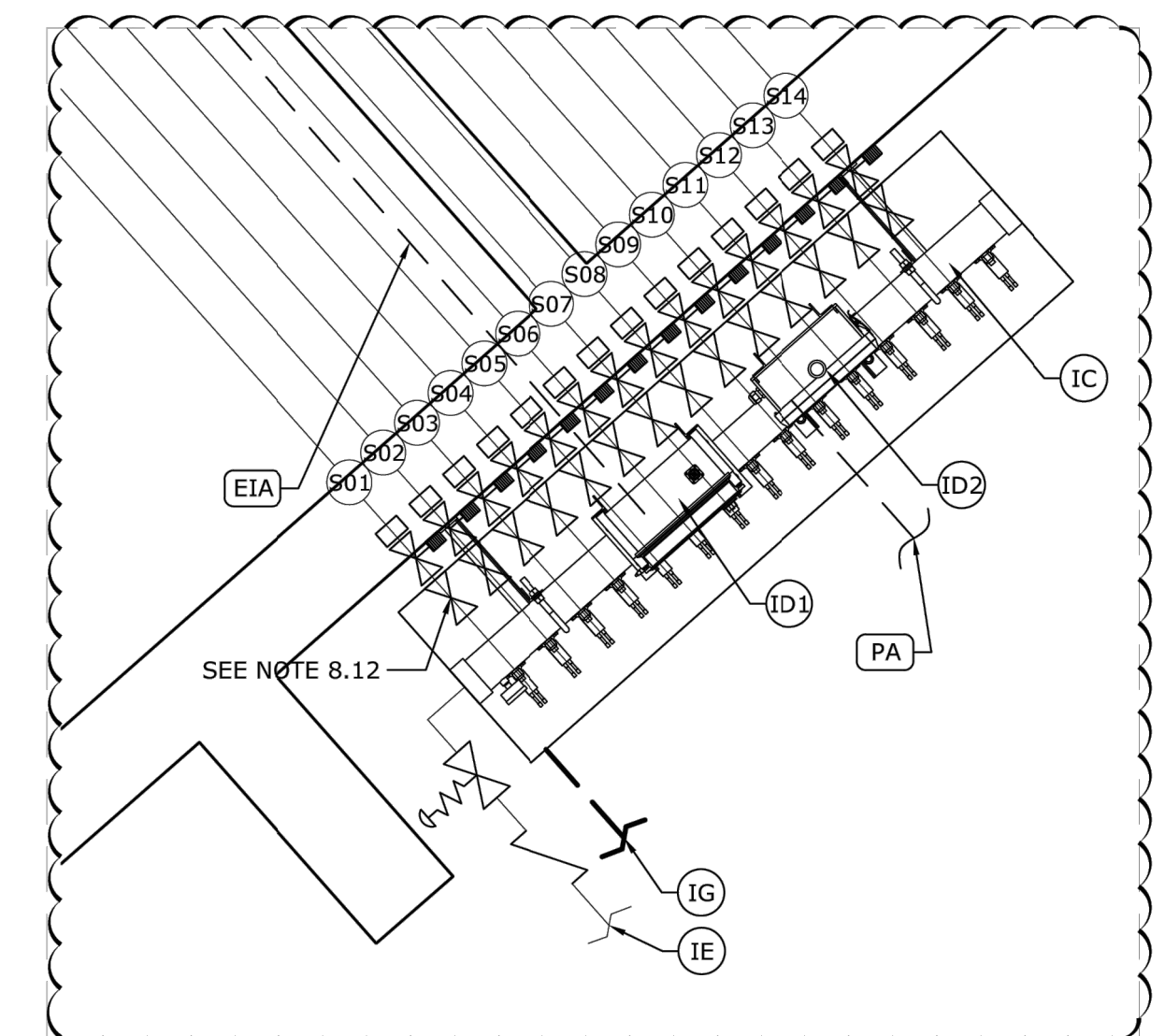
Electrical Line Connections Controller Inputs					
Product Code	From	To	# Conductors	Gauge/Type	Note
EIA	ID1-Input 1	IA	2	22	Activator No 4 24 VDC, Max 345 mA, Max 300' Long (By Others)

Product Legend		
Product Ref.	Product	Qty
IA	Activator N°4 VOR 0622	0
IB	Drain (By Other)	1
IC	Water Distribution System; Wall-Mounted Command Center 2.0	1
ID1	MaestroPro Controller 24out/12in 33907.3200	1
ID2	MaestroPro Power Box 33907.3200	1
IE	2" City Water Line (By Others)	1
IF	Min. 6" Drain Line to Municipal Drain (by Other)	1
IG	4" TYP Drain Line With Strainer Connected to Drainage System. Ensure P-Trap is Below Frost Line to Prevent Freezing. (By Others)	1
⊗	2" Pressure Regulator (By Vortex)	1
↗	2" Backflow Preventer (By Vortex)	1
⊗	1" Solenoid Valve with Ball Valve & Union (by Vortex)	14



1 PLUMBING & ELECTRICAL LAYOUT
PE-001

WATER LINE	—————
DRAIN LINE	- - - - -
ELECTRICAL LINE	- · - · -



2 PLUMBING & ELECTRICAL LAYOUT
PE-001 SCALE: 1/2"=1'-0"

Project Location	MA
Project Number	44139
Version	VE

Date	Revision Description	No.	By
13/Feb/2026	Re-Issued for Approval	01	SN
30/May/2025	Issued for Approval	00	SN

Drawing Title
Plumbing & Electrical Layout

Drawn by	Verified by
SN	MAB
Scale	Date
1/4"=1'-0"	13/Feb/2026
Page #	
PE-001	

SECTION 321313
CONCRETE PAVING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Related Sections:
 - 1. Section 312213 - Rough Grading.
 - 2. Section 321216 - Asphalt Paving.
 - 3. Section 323300 - Site Furnishings.

1.2 SUMMARY

- A. Section Includes Concrete Paving Including the Following:
 - 1. Splash pad surfacing.
 - 2. Seating Areas/Pads for site furnishings.
 - 3. Playground equipment pads.

1.3 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash, slag cement, and other pozzolans.
- B. W/C Ratio: The ratio by weight of water to cementitious materials.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to concrete paving, including but not limited to, the following:
 - a. Concrete mixture design.
 - b. Quality control of concrete materials and concrete paving construction practices.
 - c. Best practices for concrete installation in hot/cold temperatures.

2. Require representatives of each entity directly concerned with concrete paving to attend, including the following:
 - a. Contractor's superintendent.
 - b. Ready-mix concrete manufacturer's representative (only for larger projects).
 - c. Concrete paving Subcontractor.

1.5 PRODUCT SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
 1. Ground Granulated Blast Furnace Slag (GGBFS).
- C. Samples for Initial Selection: For each type of product, ingredient, or admixture requiring color selection.
- D. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 1. Provide confirmation of mix design with each delivery of concrete to the project site.

1.6 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For the following, from manufacturer:
 1. Cementitious materials.
 2. Fiber reinforcement.
 3. Admixtures.
 4. Curing compounds.
 5. Joint fillers.

1.7 QUALITY ASSURANCE

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
 1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities" (Quality Control Manual - Section 3, "Plant Certification Checklist").
- B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 1. Build mockups of full-thickness sections of concrete paving to demonstrate typical joints;

- surface finish, texture, and color; curing; and standard of workmanship.
2. Build mockups of concrete paving in the location and of the size indicated or, if not indicated, build mockups where directed by Architect and not less than 48"x48".
 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 FIELD CONDITIONS

- A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.
- B. Cold-Weather Concrete Placement: Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing, or low temperatures. Comply with ACI 306.1 and the following:
 1. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement.
 2. Do not use frozen materials or materials containing ice or snow.
 3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in design mixtures.
 4. Cover base material with thermal blankets prior to concrete pour in order to keep temperature of base material above 40 deg F.
 5. When temperatures are forecasted to drop below 40 deg F, cover concrete with plastic sheeting followed by thermal blankets for a minimum of 1 week or per mix design requirements.
- C. Hot-Weather Concrete Placement: Comply with ACI 301 and as follows when hot-weather conditions exist:
 1. Cool ingredients before mixing to maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated in total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
 2. Cover steel reinforcement with water-soaked burlap, so steel temperature will not exceed ambient air temperature immediately before embedding in concrete.
 3. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

PART 2 PRODUCTS

2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 unless otherwise indicated.

2.2 FORMS

- A. Form Materials: Plywood, plastic lumber, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, and smooth exposed surfaces.
 - 1. Use flexible or uniformly curved forms for curves with a radius of 100 feet or less.
- B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and that will not impair subsequent treatments of concrete surfaces.

2.3 CONCRETE MATERIALS

- A. Cementitious Materials: Use the following cementitious materials, of same type, brand, and source throughout Project:
 - 1. Portland Cement: ASTM C 150/C 150M, gray portland cement Type I/II.
 - 2. Slag Cement: ASTM C 989/C 989M, Grade 100 or 120.
- B. Normal-Weight Aggregates: ASTM C 33/C 33M, Class 4S, uniformly graded. Provide aggregates from a single source.
 - 1. Maximum Coarse-Aggregate Size: 3/4 inch nominal.
 - 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- C. Air-Entraining Admixture: ASTM C 260/C 260M.
- D. Chemical Admixtures: Admixtures certified by manufacturer to be compatible with other admixtures and to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material.
 - 1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
 - 2. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.
- E. Color Pigment: ASTM C 979/C 979M, synthetic mineral -oxide pigments or colored water-reducing admixtures; color stable, nonfading and resistant to lime and other alkalis.
 - 1. Manufacturer: Brickform by Solomon Colors, Ultra-M1x, or approved equal.
 - 2. Color: to be selected by Landscape Architect from manufacturer's full range of colors.
- F. Water: Potable and complying with ASTM C 94/C 94M.

2.4 FIBER REINFORCEMENT

- A. Synthetic Fiber: Fibrillated polypropylene fibers engineered and designed for use in decorative concrete paving, complying with ASTM C 1116/C 1116M, Type III, 1/2 to 1-1/2 inches long.

2.5 CURING MATERIALS

- A. Absorptive Cover: AASHTO M 182, Class 3, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry or cotton mats.
- B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- C. Water: Potable.

2.6 RELATED MATERIALS

- A. Joint Dowels:
 - 1. Smooth Dowel: 5/8" x 18" Steel, ASTM A 615 Grade 60 Steel & ACI 302.1 R-04 3.2.7.
 - 2. Speed Dowel system: Sika #4x9" Speed Dowel, PSD09/#4TX with base PSD/#4BX, or approved equal.
- B. Joint Fillers: ASTM D 1752, cork or self-expanding cork in preformed strips.

2.7 CONCRETE MIXTURES

- A. Prepare design mixtures, proportioned according to ACI 301, for each type and strength of normal-weight concrete, and as determined by either laboratory trial mixtures or field experience.
 - 1. Use a qualified independent testing agency for preparing and reporting proposed concrete design mixtures for the trial batch method.
 - 2. When automatic machine placement is used, determine design mixtures and obtain laboratory test results that comply with or exceed requirements.
- B. Cementitious Materials: use one of the following to reduce the amount of Portland cement needed.
 - 1. Ground Granulated Blast Furnace Slag (GGBFS): preferred, minimum 20 percent, maximum 60 percent.
 - 2. Fly Ash or Pozzolan: minimum 15, maximum 25 percent.
 - 3. Slag Cement: minimum 20, maximum 50 percent.
 - 4. Combined Fly Ash or Pozzolan, and Slag Cement: minimum 20, maximum 50 percent, with fly ash or pozzolan not exceeding 25 percent.

- C. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:
 - 1. Air Content: 6 percent plus or minus 1-1/2 percent for 3/4-inch nominal maximum aggregate size.
- D. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.
- E. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.
 - 1. Use water-reducing admixture high-range, water-reducing admixture high-range, water-reducing and retarding admixture plasticizing and retarding admixture in concrete as required for placement and workability.
 - 2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
- F. Synthetic Fiber: Uniformly disperse in concrete mixture at manufacturer's recommended rate, but not less than 1.0 lb/cu. yd.
- G. Color Pigment: Add color pigment to concrete mixture according to manufacturer's written instructions and to result in hardened concrete color consistent with approved mockup.
- H. Concrete Mixtures: Normal-weight concrete.
 - 1. Compressive Strength (28 Days): 4000 psi.
 - 2. Maximum W/C Ratio at Point of Placement: 0.45.
 - 3. Slump Limit: 4 inches, plus or minus 1 inch.

2.8 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C 94/C 94M. Furnish batch certificates for each batch discharged and used in the Work.
 - 1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.

- B. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.
 - 1. Completely proof-roll subbase in one direction and repeat in perpendicular direction. Limit vehicle speed to 3 mph.
 - 2. Correct subbase with soft spots and areas of pumping or rutting exceeding depth of 1/2 inch according to requirements in Section 312000 "Earth Moving."
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.3 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.4 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
 - 1. When joining existing paving, place transverse joints to align with previously placed joints unless otherwise indicated.
- B. Expansion Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
 - 1. Locate expansion joints at intervals of 20 feet unless otherwise indicated.
 - 2. Dowels:
 - a. Using Speed Dowels or similar, attach base anchors directly to edge form and insert sleeves.
 - b. Install at 12" on center or per manufacturer's recommendation.
 - c. After removing form, insert ungreased steel dowels into sleeves.
 - 3. Joint Fillers.
 - a. Extend joint fillers full width and depth of joint.
 - b. Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.

- c. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
 - d. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
 - e. Cut holes in joint material as needed to accommodate dowels.
 - f. During concrete placement, protect top edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
- C. Control (Contraction) Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows:
1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with grooving tool to a 1/4-inch radius. Repeat grooving of contraction joints after applying surface finishes. Eliminate grooving-tool marks on concrete surfaces.
 2. Sawed Joints: Form control joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete within 4 to 12 hours after placing the slab to avoid contraction cracks.
 - a. Sawed Joint cannot be used for curved control joints.
 - b. Grooved joints are preferred, contractor to obtain approval for Sawed Joints from owner's representative before concrete is poured.
 3. Tolerances:
 - a. Depth: +/-1/8 inch.
 - b. Horizontal: +/- 2 inches.
- D. Joining an existing slab, when joining existing paving, dowels should be drilled into in existing slab and epoxied in place.
1. Use 1/2" x 18" square dowels.
 2. Drill into existing slab +/-2" from top of slab in a line parallel to the top of slab.
 3. Spacing should be 12" on center, starting 8" from the edge of the existing slab.
 4. Epoxy dowel in place, insuring it is square to the face of the joint both vertically and horizontally.
 5. Install speed dowel sleeve or grease the end of the dowel that will be covered by the new slab.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 3/8-inch radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

3.5 CONCRETE PLACEMENT

- A. Before placing concrete, inspect and complete formwork installation, steel reinforcement, and

items to be embedded or cast-in.

- B. Remove snow, ice, or frost from subbase surface and steel reinforcement before placing concrete. Do not place concrete on frozen surfaces.
- C. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- D. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.
- E. Do not add water to concrete during delivery or at Project site. Do not add water to fresh concrete after testing.
- F. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- G. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.
 - 1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating reinforcement dowels and joint devices.
- H. Screed paving surface with a straightedge and strike off.
- I. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleedwater appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

3.6 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleedwater sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
 - 1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface, perpendicular to line of traffic, to provide a uniform, fine-line texture.
 - 2. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, perpendicular

to line of traffic.

3.7 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by moisture-retaining-cover curing curing compound or as follows:
 - 1. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Immediately repair any holes or tears occurring during installation or curing period, using cover material and waterproof tape.
 - 2. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating, and repair damage during curing period.

3.8 PAVING TOLERANCES

- A. Comply with tolerances in ACI 117 and as follows:
 - 1. Elevation: 3/8 inch.
 - 2. Thickness: Plus 3/8 inch, minus 1/4 inch.
 - 3. Surface: Gap below 10-feet- long; unlevelled straightedge not to exceed 1/2 inch.
 - 4. Alignment of Tie-Bar End Relative to Line Perpendicular to Paving Edge: 1/2 inch per 12 inches of tie bar.
 - 5. Lateral Alignment and Spacing of Dowels: 1 inch.
 - 6. Vertical Alignment of Dowels: 1/4 inch.
 - 7. Alignment of Dowel-Bar End Relative to Line Perpendicular to Paving Edge: 1/16 inch per 12 inches of dowel.
 - 8. Joint Spacing: 3 inches.
 - 9. Contraction Joint Depth: 1/8 inch,

10. Joint Width: Plus 1/8 inch, no minus.

3.9 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Strength of each concrete mixture will be satisfactory if average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
- C. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect.
- D. Concrete paving will be considered defective if it does not pass tests and inspections.
- E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.10 REPAIR AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Architect.
- B. Drill test cores, where directed by Architect, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory paving areas with portland cement concrete bonded to paving with epoxy adhesive.
- C. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- D. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION

SECTION 329200
TURF AND GRASSES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Requirements, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Seeding.
 - 2. Hydroseeding.
 - 3. Meadow grasses and wildflowers.
- B. Related Requirements:
 - 1. Section 329300 "Plants" for trees, shrubs, ground covers, and other plants as well as border edgings and mow strips.

1.3 DEFINITIONS

- A. Finish Grade: Elevation of finished surface of planting soil.
- B. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also include substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- C. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- D. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See Section 329113 "Soil Preparation" and drawing designations for planting soils.

- E. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 INFORMATIONAL SUBMITTALS

- A. Certification of Seed: From seed vendor for each seed monostand or mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
- B. Product Certificates: For fertilizers, from manufacturer.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of turf and meadows during a calendar year. Submit before expiration of required maintenance periods.

1.7 QUALITY ASSURANCE

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws, as applicable.
- B. Bulk Materials:
 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
 2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
 3. Accompany each delivery of bulk materials with appropriate certificates.

1.9 FIELD CONDITIONS

- A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.
 - 1. Spring: April 15th - June 1st.
 - 2. Fall: September 1st - October 15th.

- B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

PART 2 PRODUCTS

2.1 SEED MIXES

- A. Use the following seed mix for Lawn areas:
 - 1. Lawn/Disturbed Areas - Endophyte Enhanced Mix:
 - a. 30% Improved Perennial Rye.
 - b. 30% Turf Type Tall Fescue.
 - c. 35% Chewings Fescue.
 - d. 5% Miniature or Dutch White Clover.
 - 2. Available from:
 - a. Allen's Seed Store - 693 S County Trail Exeter, RI 02822 Phone: 401-294-2722.
 - b. Approved Equal.

- B. Use the following seed mix for Bio-retention:
 - 1. Retention Basin Floor Mix - Low Maintenance (ERNMX-126):
 - a. 20% *Panicum clandestinum*.
 - b. 20% *Puccinellia distans*.
 - c. 18% *Elymus virginicus*.
 - d. 15% *Agrostis stolonifera* 'Penncross'
 - e. 15% *Poa palustris*.
 - f. 10% *Carex vulpinoidea*.
 - g. 1% *Carex scoparia*.
 - h. 1% *Juncus effusus*.
 - 2. Available from:
 - a. Ernst Conservation Seeds - 8884 Mercer Pike Meadville, PA 16335 - (800) 873-3321.
 - b. Approved Equal.

- C. Use the following seed mix for Wildflower Area:
1. New England Showy Wildflower Mix- Wildflower and Greass seed mix.
 - a. *Schizachyrium scoparium*.
 - b. *Chamaecrista fasciculata*.
 - c. *Festuca rubra*.
 - d. *Elymus canadensis*.
 - e. *Elymus riparius*.
 - f. *Heliopsis helianthoides*.
 - g. *Coreopsis lanceolata*.
 - h. *Rudbeckia hirta*.
 - i. *Liatris spicata*.
 - j. *Asclepias syriaca*.
 - k. *Vernonia noveboracensis*.
 - l. *Symphyotrichum novae-angliae*.
 - m. *Eutrochium maculatum*.
 - n. *Asclepias tuberosa*.
 - o. *Solidago juncea*.
 - p. *Eupatorium perfoliatum*.
 2. Available from:
 - a. New England Wetland Plants, Inc. 820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000 EMAIL: INFO@NEWP.COM
WEB ADDRESS: WWW.NEWP.COM.
 - b. Approved Equal.

2.2 FERTILIZERS

- A. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:
1. Composition: fertilizer to have a ratio of 18 Nitrogen (N) - 0 Phosphorous (P) - 12 Potassium (K).

2.3 EROSION-CONTROL MATERIALS

- A. Bedding Straw: clean, dry and free of weed seeds.
- B. Non-asphaltic tackifier: guar gum or approved equal.

- C. Erosion-Control Blankets: Double Net Straw/Coconut Biodegradable Rolled fiber mat, as manufactured by East Coast Erosion Control (www.eastcoasterosion.com, 443 Bricker Road Bernville, PA 19506, 1.800.582.4005 +1.610.488.8496 Fax +1.610.488.8494) or approved equal.
 - 1. The ECSC-2B™ is made with uniformly distributed 70% agricultural straw, 30% coconut fiber and two organic jute nets securely sewn together with biodegradable thread.
 - 2. Secure erosion control blankets with 6" steel landscape staples or approved equal.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.
 - 1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
 - 2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
 - 3. Uniformly moisten excessively dry soil that is not workable or which is dusty.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

3.2 PREPARATION

- A. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
 - 1. Protect adjacent and adjoining areas from hydroseeding and hydro mulching overspray.
 - 2. Protect grade stakes set by others until directed to remove them.
- B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.3 TURF AREA PREPARATION

- A. General: Prepare planting area for soil placement and mix planting soil according to Section 32 91 19 - Landscape Grading.
- B. Placing Planting Soil: Place and mix planting soil in place over exposed subgrade.
 - 1. Reduce elevation of planting soil to allow for soil thickness of sod.
- C. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- D. Before planting, obtain Landscape Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.4 PREPARATION FOR EROSION-CONTROL MATERIALS

- A. Prepare area as specified in "Turf Area Preparation" Article.
- B. For erosion-control mats, install planting soil in two lifts, with second lift equal to thickness of erosion-control mats. Install erosion-control mat and fasten as recommended by material manufacturer.
- C. Fill cells of erosion-control mat with planting soil and compact before planting.
- D. For erosion-control blanket or mesh, install from top of slope, working downward, and as recommended by material manufacturer for site conditions. Fasten as recommended by material manufacturer.
- E. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

3.5 HYDROSEEDING

- A. Hydroseeding: Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
 - 1. Mix slurry with fiber-mulch manufacturer's recommended tackifier.
 - 2. Spray-apply slurry uniformly to all areas to be seeded in a one-step process. Apply slurry at a rate so that mulch component is deposited at not less than 1500-lb/acre dry weight, and seed component is deposited at not less than the specified seed-sowing rate (5-7 lbs/1000 sq ft).

3.6 TURF MAINTENANCE

- A. General: Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
 - 1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
 - 2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
 - 3. Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.

- B. Watering: Install and maintain temporary piping, hoses, and turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of 4 inches.
 - 1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
 - 2. Water turf with fine spray at a minimum rate of 1 inch per week unless rainfall precipitation is adequate.

- C. Mowing/Cutting:
 - 1. Turf areas (seeded or sodded):
 - a. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain the following grass height:
 - 1) Mow Lawn Areas to a height of 3 inches.

3.7 SATISFACTORY TURF

- A. Turf installations shall meet the following criteria as determined by Landscape Architect:
 - 1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
 - 2. Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, even-colored, viable turf has been established, free of weeds, open joints, bare areas, and surface irregularities.

- B. Use specified materials to reestablish turf that does not comply with requirements, and

continue maintenance until turf is satisfactory.

3.8 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- B. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.
- C. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.
- D. Remove nondegradable erosion-control measures after grass establishment period.

END OF SECTION



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

SUPPLEMENTAL BID FORM

To whom it may concern:

1. The undersigned, having familiarized (himself) (themselves) (itself) with the **Improvements at Cabral Park** bid affecting the cost of work, and with the Contract Documents (which includes the Invitation for Bids, Instructions to Bidders, Form of Bid Bond, Form of Agreements, form of Non-Collusive Affidavit, Addenda (if any), Drawings, Technical Specification, Form of Surety Bond(s); as prepared by the Providence Parks Department, and on file in the office of the City Clerk 3rd Floor, City Hall, Providence, RI 02903, hereby proposes to furnish all supervision, technical personnel, labor, materials, machinery, tools, equipment and services including utility and transportation services, and to perform such other required work for the **Improvements at Cabral Park** and such other required and incidental work, complete, all in accordance with the above listed documents and for the unit prices for work in-place for the following items and quantities.

2. In submitting this Bid, the bidder understands that the right is reserved by The Providence Parks Department to reject any and all Bids, If written notice of acceptance of this Bid is mailed, telegraphed or delivered to the undersigned within (90) days after the opening thereof, or at any time thereafter before this Bid is withdrawn, the undersigned agrees to execute and deliver an Agreement in the prescribed form and furnish the required bond within (10) days after the Agreement is presented to him/her for signature.

Herewith in accordance with the instructions to Bidders.

3. Attached hereto is an affidavit in proof that the undersigned has not colluded with any person in respect to this. Bid or any bids for the Contractor for which this Bid is submitted. Also attached is a Statement of Bidder's Qualifications.

4. Application unit prices are contained in the Agreement (established as the result of either a Unit Price Bid or a Supplemental Schedule of Unit Prices), the City of Providence may order the Contractor to proceed with desired changes in the work, the value of such changes to be determined by the measured quantities involved and the application unit prices specified in the Contract.

5. The City of Providence reserves the right to determine the lowest responsible Bidder based on past experience with the City and/or recommendations by City and/or state agencies with an interest in this procurement. The City reserves the right to award the project to the appropriate bidder in the best interest of the City of Providence.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The Bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregation facilities are maintained. The Bidder agrees that a breach of this certification will be a violation of the Equal Opportunity Clause in any contract resulting from acceptance of this Bid. As used in this certification, term "segregation facilities" means any waiting rooms, work rooms, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation and housing facilities provided for employee which are segregated by explicit directive or are in fact segregated on basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The Bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors for specific time periods) he/she will obtain identical certification from proposed subcontractor prior to the award of subcontracts exceeding \$10,000.00 which are not exempt from provisions of the Equal Opportunity Clause, and that he /she will retain such certifications in his/her files.

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. & 1001.

DATE _____, 20__

Name of Bidder and Official Address:

Name of Authorized Representative (Contact):

By _____
(Signature)
Title _____

E-Mail: _____

Phone: _____

Bidder shall indicate, in space provided,
the earliest possible Project Start-up Date: _____, 20__

ADDENDA: The undersigned acknowledges receipt of the following Addenda, if any, and has included the provisions thereof in this Bid (If Any):

<u>Addendum No.</u>	<u>Date</u>	<u>Addendum No.</u>	<u>Date</u>
_____	_____, 20__	_____	_____, 20__
_____	_____, 20__	_____	_____, 20__

Sub-Contractors (If Any):

Name: _____ **Scope of Work:** _____ **MBE / WBE**

Name: _____ **Scope of Work:** _____ **MBE / WBE**

Name: _____ **Scope of Work:** _____ **MBE / WBE**

BID PACKAGE SPECIFICATIONS

Project Description:

Cabral Park is located in the historic Fox Point neighborhood on the East Side of Providence. The park is located above I-195 to the South and is abutted by the Vartan Gregorian Elementary School and Fox Point Manor Housing. Existing park features include a playground, enclosed waterpark with restroom building, a basketball court and a baseball field that slopes up and is retained by a segmented wall to the southwest. The park will benefit from major upgrades to better serve community members.

BASE BID: The Base Bid scope of work for this project shall include, but not be limited to the following: new playground equipment, and play surfacing for ages 2-5 year old and 5-12 year old youth; new spray pad equipment and surfacing; renovated basketball court with striping to prepare for artistic mural painted under separate contract; new seating node to accept memorial stone furnished by others, new pathways; new picnic tables and benches; new trees and other plantings, new bioretention areas, and fence sections and gates for enclosure to the south of the park.

ADD ALTERNATES include:

- 1) Furnish and Install playground equipment designed for 2-5yr old use and safety surfacing
- 2) Furnish and Install 6' benches with backs on concrete pad
- 3) Remove and Replace 6' black vinyl CL mesh and paint existing posts and rails with DTM acrylic black paint
- 4) Furnish and Install exposed aggregate concrete paving at 5' wide splash pad perimeter
- 5) Furnish and Install Tree and Shrub plantings

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: \$30,000.00

BASE BID W/ ALLOWANCE: \$ _____

ABBREVIATIONS

R&S	Remove & Stockpile	LF	Linear Foot
R&D	Remove & Dispose	SF	Square Foot
D&I	Deliver & Install, owner provided	CY	Cubic Yard
F&I	Furnish & Install	TN	Ton
LS	Lump Sum	TMR	Thermally Modified Red Oak
EA	Each		

ADD ALTERNATES (See Plans and Specs):

1. Add Alt #1 – F&I play equipment and 12” safety surfacing for 2-5 year olds – Per Lump Sum

_____ LS \$ _____

price in writing

2. Add Alt #2– F&I (2) 6’ Dumor Bench with Backrest model #34-60TMR S-2 on concrete pad – Per Lump Sum

_____ LS \$ _____

price in writing

3. Add Alt #3– R&R 6’ ht black CL mesh and hardware; paint ex. posts and rails- Per Lump Sum

_____ LS \$ _____

price in writing

4. Add Alt #4– F&I Exposed Aggregate concrete paving at 5’ wide splash pad perimeter – Per Lump Sum

_____ LS \$ _____

price in writing

5. Add Alt #5– F&I Tree and Shrub Plantings – Per Lump Sum

_____ LS \$ _____

price in writing

UNIT PRICES – BASE BID:

1. F&I Catch Basin Silt Trap. – Per Each

_____ EA \$ _____

price in writing

2. F&I Compost Filter Silt Sock, complete. – Per Linear Foot

_____ LF \$ _____

price in writing

3. Sawcut Asphalt. – Per Linear Foot

_____ LF \$ _____

price in writing

4. R&D Asphalt to limits shown, complete. – Per Square Yard

_____ SY \$ _____

price in writing

5. R&D Concrete and Base– Per Cubic Yard

_____ CY \$ _____

price in writing

6. R&D splash pad piping and all features as per plans, complete. – Per Lump Sum

_____ LS \$ _____

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: _____

7. R&D splash pad interior manifold, water heater, piping, backflow preventer and gate valve. Core hole in interior wall to provide for additional 2" waterline in building, saw cut and remove concrete to a depth of 18" – Per Lump Sum

_____ LS \$ _____
price in writing

8. Lower existing catch basin and cap. – Per Lump Sum

_____ LS \$ _____
price in writing

9. R&D partial (21' L) concrete retaining wall, pipe railing and posts; parge wall end with concrete; F&I new 3" o.d. black steel post in ex. retaining wall. complete. – Per Lump Sum

_____ LS \$ _____
price in writing

10. R&D partial (17' L) concrete retaining wall and 6' CL fence and posts; parge wall end with concrete, re-install stockpiled 3" o.d. terminal fence post in concrete retaining wall and re-fasten CL mesh complete. – Per Lump Sum

_____ LS \$ _____
price in writing

11. R&D partial (70' L) segmented retaining wall, stockpile select blocks for end wall repair. Reinstall selected existing cap pieces; repair wall end with stockpiled wall stone blocks, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

12. Strip turf, screen and amend soil. – Per Cubic Yard

_____ CY \$ _____
price in writing

13. R&S Landscape Boulders. – Per Each

_____ EA \$ _____
price in writing

14. Fine Grading, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

15. F&I 3" Asphalt Path, complete. – Per Square Foot

_____ SF \$ _____
price in writing

16. F&I 4" Concrete Paving Type 1: Broom Finish, complete. – Per Square Foot

_____ SF \$ _____
price in writing

17. F&I 4" Concrete Paving Type 2: Exposed aggregate, complete. – Per Square Foot

_____ SF \$ _____
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: _____

18. F&I Concrete haunch, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

19. F&I Stabilized stone dust paving, complete. – Per Square Foot

_____ SF \$ _____
price in writing

20. F&I Synlawn surfacing, complete. – Per Square Foot

_____ SF \$ _____
price in writing

21. F&I Synlawn roll down edge, complete. – Per linear Foot

_____ LF \$ _____
price in writing

22. F&I EWF surfacing, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

23. F&I boulder and stump scramble, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

24. F&I Landscape Boulders 30x36” – Per Each

_____ EA \$ _____
price in writing

25. F&I Landscape Boulders 36x42” – Per Each

_____ EA \$ _____
price in writing

26. F&I Landscape Boulders 42-48” – Per Each

_____ EA \$ _____
price in writing

27. D&I 18” wide Jumbo Cobble Edging, complete – Per Linear Foot

_____ LF \$ _____
price in writing

28. D&I 6” Flush Granite Curb, complete – Per Linear Foot

_____ LF \$ _____
price in writing

29. F&I Hardwood log bench seating, complete – Per Linear Foot

_____ LF \$ _____
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: _____

30. F&I Hardwood stump seating, complete – Per Linear Foot

_____ LF \$ _____
price in writing

31. F&I 4’h black vinyl chain link fencing, complete – Per Linear Foot

_____ LF \$ _____
price in writing

32. F&I 4’ wide black vinyl chain link gate, complete – Per Each

_____ EA \$ _____
price in writing

33. F&I 12’ wide black vinyl chain link service gate, complete – Per Each

_____ EA \$ _____
price in writing

34. F&I 6’h black vinyl chain link mesh, complete – Per Linear Foot

_____ LF \$ _____
price in writing

35. Paint 6’ h CL fence posts and rails with two coats of black DTM acrylic paint – Per Lump Sum

_____ LS \$ _____
price in writing

36. F&I 9’-3” section black powder coat steel pipe rails in gap on wall to match existing– Per Lump Sum

_____ LS \$ _____
price in writing

37. D&I Kompan Custom variant #PCMS727384, in ground mount, complete – Per Lump Sum

_____ LS \$ _____
price in writing

38. D&I Kompan 2 Bay swings w Bird nest #KSW92009, in ground mount, complete – Per Lump Sum

_____ LS \$ _____
price in writing

39. F&I Earthscape 3’ dia. round Wobble Boards #F00216, surface mount on concrete, complete – Per Each

_____ EA \$ _____
price in writing

40. F&I Playworld Accessible Whirl w/ drain & soakaway crate #ZZXX1158, in ground mount, complete – Per Lump Sum

_____ LS \$ _____
price in writing

41. F&I Playworld Gateway Dynamic Slide #ZZUN5916, in ground mount, complete – Per Lump Sum

_____ LS \$ _____
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: _____

42. F&I Playworld Spin Cup #ZZXX0065, in ground mount, complete – Per Each

_____ EA \$ _____
price in writing

43. F&I Playworld Tot Swing ZZXX0822, in ground mount, complete – Per Lump Sum

_____ LS \$ _____
price in writing

44. F&I APS 14' Diameter wear mat – Per Each

_____ EA \$ _____
price in writing

45. F&I APS 8'x4'x2" Wear Mat (at Bird nest) – Per Each

_____ EA \$ _____
price in writing

46. F&I APS 3'x5'x 2" Wear Mat– Per Each

_____ EA \$ _____
price in writing

47. F&I TrueBounce post and polycarbonate backboard #XL7042with breakaway rim #RB100 – Per Each

_____ EA \$ _____
price in writing

48. F&I 92" Tendertuff player's bench #141683H – Per Each

_____ EA \$ _____
price in writing

49. Stripe basketball court with 2" white lines using Novasports Novaplay paint – per Lump Sum

_____ LS \$ _____
price in writing

50. F&I Vortex System as Specified. – (F&I of Activator # 4 no longer in contract) Per Lump Sum

_____ LS \$ _____
price in writing

51. F&I 24" Polylok 3008-G24 24" round grate, 6x24" riser, #3017-24 'Rhino box' and 6" SCH 40 PVC drainage pipe to connect with existing drainage line, Complete – Per Lump Sum

_____ LS \$ _____
price in writing

52. F&I 6' Dumor TMR Bench with Backrest #34-60TMR, mount varies – Per Each

_____ EA \$ _____
price in writing

53. F&I 6' Dumor TMR Backless Bench #6B-115, mount varies – Per Each

_____ 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: _____

54. F&I 6' Dumor TMR Picnic Table #67-079-6, surface mount, complete – Per Each

_____ EA \$ _____
price in writing

55. F&I 8' Dumor ADA TMR Picnic Table #67-079-68-1, surface mount, complete – Per Each

_____ EA \$ _____
price in writing

56. F&I 6' Vestre June Bench with Back #6619, surface mount on 4" concrete pad – Per Each

_____ EA \$ _____
price in writing

57. F&I 55 Gal. Pilot Rock Trash Receptacle w/ lid and steel cable kit, surface mount – Per Each

_____ EA \$ _____
price in writing

58. F&I Deciduous Trees – 3-3.5" Cal. B&B, complete. – Per Each

_____ EA \$ _____
price in writing

59. F&I Deciduous Trees – 2.5-3" Cal. B&B, complete. – Per Each

_____ EA \$ _____
price in writing

60. F&I Deciduous Trees – 1.5-2" Cal. B&B, complete. – Per Each

_____ EA \$ _____
price in writing

61. F&I Deciduous Trees – 10-12' Ht. Clump. B&B, complete. – Per Each

_____ EA \$ _____
price in writing

62. F&I Deciduous Trees – #7, complete. – Per Each

_____ EA \$ _____
price in writing

63. F&I Aesculus pavia 'Red Buckeye– 5', complete. – Per Each

_____ EA \$ _____
price in writing

64. F&I Evergreen Trees – 8-10 Ht. B&B, complete. – Per Each

_____ EA \$ _____
price in writing

65. F&I Deciduous Shrubs – #3, complete. – Per Each

_____ 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: _____

66. F&I Deciduous Shrubs – #5, complete. – Per Each

_____ EA \$ _____
price in writing

67. F&I Deciduous Shrubs – #7, complete. – Per Each

_____ EA \$ _____
price in writing

68. F&I Evergreen Shrubs – #3, complete. – Per Each

_____ EA \$ _____
price in writing

69. F&I Rhod. maximum ‘Rosebay Rhododendron’– 4-5’ B&B, complete. – Per Each

_____ EA \$ _____
price in writing

70. F&I Shredded Bark Mulch – Per CY

_____ CY \$ _____
price in writing

71. F&I ¾” Screened Loam. – Per Cubic Yard

_____ CY \$ _____
price in writing

72. F&I Hydroseed w/ Parks Mix, complete. – Per Square Foot

_____ SF \$ _____
price in writing

73. F&I Hydroseed w/ Bioswale seed mix complete. – Per Square Foot

_____ SF \$ _____
price in writing

74. F&I Hydroseed w/ Wildflower seed mix complete. – Per Square Foot

_____ SF \$ _____
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: _____



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

ADDITIONAL BID DOCUMENTS

The complete set of Bid Documents includes the pages above & the following:

- **PREVAILING WAGE DECISION**
- **SAMPLE CONTRACT**
- **TECHNICAL SPECIFICATIONS:**
 - **01 00 00 GENERAL REQUIREMENTS**
 - **01 56 39 TEMPORARY TREE AND PLANT PROTECTION**
 - **02 41 19 SELECTIVE DEMOLITION**
 - **03 30 00 CAST IN PLACE CONCRETE**
 - **09 96 00 HIGH PERFORMANCE COATINGS**
 - **11 68 00 PLAY FIELD EQUIPMENT AND STRUCTURES**
 - **11 68 00.10 SPLASH PAD PLAY EQUIPMENT**
 - **11 68 33 ATHLETIC FIELD EQUIPMENT**
 - **13 28 10 SPECIALTY TIMBER SITE FEATURES**
 - **31 20 00 EARTH MOVING**
 - **31 22 13 ROUGH GRADING**
 - **31 23 16.13 TRENCHING**
 - **31 25 00 EROSION AND SEDIMENTATION CONTROLS**
 - **32 12 16 ASPHALT PAVING**
 - **32 12 20.10 BASKETBALL COURT FINISHING**
 - **32 13 13 CONCRETE PAVING**
 - **32 13 13.13 EXPOSED AGGREGATE CONCRETE PAVING**
 - **32 15 40 ORGANIC-LOCK FOR STABILIZED STONEDUST SURFACING**
 - **32 16 13.43 STONE CURBS**
 - **32 18 13 SYNTHETIC GRASS SURFACING**
 - **32 18 16.13 PLAYGROUND PROTECTIVE SURFACING**
 - **32 31 13 CHAIN LINK FENCES AND GATES**
 - **32 33 00 SITE FURNISHINGS**
 - **32 91 13 SOIL PREPARATION**
 - **32 91 19 LANDSCAPE GRADING**
 - **32 92 00 TURF AND GRASSES**
 - **32 93 00 PLANTS**
 - **33 42 00 STORMWATER CONVEYANCE**
 - **33 46 11.23 STORMWATER RETENTION PONDS**

- **PROVIDENCE PARKS DEPARTMENT DRAWINGS:**
 - **L-1 COVER**

- L-2 **EXISTING CONDITIONS**
- L-3.1 **DEMOLITION PLAN- NORTH**
- L-3.2 **DEMOLITION PLAN -SOUTH**
- L-4.1 **GRADING PLAN – NORTH**
- L-4.2 **GRADING PLAN – NORTH**
- L-5.1 **MATERIALS PLAN -NORTH**
- L-5.2 **MATERIALS PLAN -SOUTH**
- L-6.1 **LAYOUT PLAN -NORTH**
- L-6.2 **LAYOUT PLAN -NORTH**
- L-7.1 **PLANTING PLAN -NORTH**
- L-7.2 **PLANTING PLAN -SOUTH**
- L-8 **SPLASH PAD ENLARGEMENT PLAN**
- L-9.1 -9.9 **CONSTRUCTION DETAILS**
- VORTEX COVER SHEET**
- VORTEX SITE LAYOUT**
- VORTEX PLUMBING AND ELECTRICAL LAYOUT**
- VORTEX BONDING LAYOUT**

ADDITIONAL INFORMATION REQUIRED WITH BID:

- Qualifications to Perform Work – See Form Below for Information Required
- Addenda (If Any) - Must Be Acknowledged on Bid Form (Page 14)
- Product Information for Items Submitted as ‘Or Equal’ to Specified Materials

PROVISIONS OF THIS PROJECT:

- Upon the Issuance of the Award from the Board of Contract – the City shall issue a Contract to be executed by the City and the vendor incorporating the bid specifications. All Provisions of the Specifications are binding.
- Any Permits Required by the City of Providence and/or State of Rhode Island Shall be Obtained by the Vendor – Permit Fees by the City of Providence Shall be Waived – the State ADA Fee Must be Paid
- The Davis Bacon Act Applies (HUD Projects) – Prevailing Wages Must Be Paid for On Site Hours – On-Site Interviews will be Conducted During the Project – Employees Shall be Advised of the Prevailing Wage Rates Prior to Mobilization on Site
- Certified payrolls Must be Submitted With Pay Requests Including Monthly Utilizations Form
- Performance and Payment Bonds (If Required) Must be Submitted within 10 Days of Award or Bid Bond Will be Forfeited
- An Insurance Certificate Shall be Submitted to the City Within 10 Days of Award
- A Copy of the Vendors Contractor’s License Must be Submitted within 10 Days of Award
- All On-Site Personnel Shall be Licensed (If Required) and Shall have Proof of All Licenses Required by the State of Rhode Island to Perform the Work Required
- Pay Requests Must be Submitted on Approved AIA Billing Documents (City will Provide if Needed)
- All Subcontractors Shall be Listed on the Bid Form – All Insurance & Payroll Requirements Apply
 - General Contractor Shall be the Insurance Certificate Holder and the City Shall be Named as ‘Additionally Insured’ with Respect to Liability Insurance
- A Submittal Log Must be Submitted within 10 Days of Award

CLOSE OUT DOCUMENTS:

- Prior to Final Payment the Vendor Shall Provide the Following:
 - Copies of Permits Signed off and Approved (If Any)
 - Operating Manuals and Warranties Shall Be Transferred and/or Delivered
 - Full and Completed As-Built Drawings Shall be Submitted for Approval
 - Training Shall be Provided to City Personnel (If Required)
 - Certification by Manufactures Representative (If Required)

QUALIFICATIONS:

Qualifications will be evaluated on the basis of similar project experience for:

- a. Completion of at least 3 similar projects within the past five years.
- b. Size and dollar value of similar completed projects.
- c. Contractor’s performance with similar projects. (references will be checked)
- d. Relevant experience of individuals assigned to the project.

Questions regarding this bid package shall be submitted via e-mail to Purchasing at purchasing@providenceri.gov and **(Megan Gardner -Design Team Manager, mgardner@providenceri.gov)**, no later than five (5) working days before the bid opening date.

SUPPLEMENTAL INFORMATION

If the issuing department for this RFP determines that your firm’s bid is best suited to accommodate their need, you will be asked to provide proof of the following prior to formalizing an award.

An inability to provide the outlined items at the request of the department may lead to the disqualification of your bid.

*This information is **NOT** requested to be provided in your initial bid that you will submit to the City Clerk’s office by the “date to be opened” noted on page 1. This list only serves as a list of items that your firm should be ready to provide on request.*

All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city’s Open Meetings Portal and made available as a public record.

You must be able to provide:

- Business Tax ID will be requested after an award is approved by the Board of Contract and Supply.
- Proof of Insurance.
- Certificate of Good Standing with the Rhode Island Secretary of State.



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

CITY OF PROVIDENCE STANDARD TERMS & CONDITIONS

1. The terms “you” and “your” contained herein refer to the person or entity that is a party to the agreement with the City of Providence (“the City”) and to such person’s or entity’s employees, officers, and agents.
2. The Request For Proposals (“RFP”) and these Standard Terms and Conditions together constitute the entire agreement of the parties (“the Agreement”) with regard to any and all matters. By your submission of a bid proposal or response to the City’s RFP, you accept these Standard Terms & Conditions and agree that they supersede any conflicting provisions provided by bid or in any terms and conditions contained or linked within a bid and/or response. Changes in the terms and conditions of the Agreement, or the scope of work thereunder, may only be made by a writing signed by the parties.
3. You are an independent contractor and in no way does this Agreement render you an employee or agent of the City or entitle you to fringe benefits, workers’ compensation, pension obligations, retirement or any other employment benefits. The City shall not deduct federal or state income taxes, social security or Medicare withholdings, or any other taxes required to be deducted by an employer, and this is your responsibility to yourself and your employees and agents.
4. You shall not assign your rights and obligations under this Agreement without the prior written consent of the City. Any assignment without prior written consent of the City shall be voidable at the election of the City. The City retains the right to refuse any and all assignments in the City’s sole and absolute discretion.
5. Invoices submitted to the City shall be payable sixty (60) days from the time of receipt by the City. Invoices shall include support documentation necessary to evidence completion of the work being invoiced. The City may request any other reasonable documentation in support of an invoice. The time for payment shall not commence, and invoices shall not be processed for payment, until you provide reasonably sufficient support documentation. In no circumstances shall the City be obligated to pay or shall you be entitled to receive interest on any overdue invoice or payment. In no circumstances shall the City be obligated to pay any costs associated with your collection of an outstanding invoice.
6. For contracts involving construction, alteration, and/or repair work, the provisions of applicable state labor law concerning payment of prevailing wage rates (R.I. Gen. Laws §§ 37-13-1 et seq., as amended) and the City’s First Source Ordinance (Providence Code of Ordinances §§ 21-91 et seq., as amended) apply.
7. With regard to any issues, claims, or controversies that may arise under this Agreement, the City shall not be required to submit to dispute resolution or mandatory/binding arbitration. Nothing prevents the parties from mutually agreeing to settle any disputes using mediation or non-binding arbitration.
8. To the fullest extent permitted by law, you shall indemnify, defend, and hold harmless the City, its employees, officers, agents, and assigns from and against any and all claims, damages, losses, allegations, demands, actions, causes of action, suits, obligations, fines, penalties, judgments, liabilities, costs and expenses, including but not limited to attorneys’ fees, of any nature whatsoever arising out of, in connection with, or resulting from the performance of the work provided in the Agreement.
9. You shall maintain throughout the term of this Agreement the insurance coverage that is required by the RFP or, if none is required in the RFP, insurance coverage that is considered in your industry to be commercially reasonable, and you agree to name the City as an additional insured on your general liability policy and on any umbrella policy you carry.
10. The City shall not subject itself to any contractual limitations on liability. The City shall have the time permitted within the applicable statute of limitations, and no less, to bring or assert any and all causes of action, suits, claims or demands the City may have arising out of, in connection with, or resulting from the performance of the work provided in the Agreement, and in no event does the City agree to limit your liability to the price of the Agreement or any other monetary limit.
11. The City may terminate this Agreement upon five (5) days’ written notice to you if you fail to observe any of the terms and conditions of this Agreement, or if the City believes your ability to perform the terms and conditions of this Agreement has been materially impaired in any way, including but in no way limited to loss of insurance coverage, lapsing of a surety bond, if required, declaration of bankruptcy, or appointment of a receiver. In the event of termination by the City, you shall be entitled to just and equitable compensation for any satisfactory work completed and expenses incurred up to the date of termination.
12. Written notice hereunder shall be deemed to have been duly served if delivered in person to the individual or member of the



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firm or entity or to an officer of the entity for whom it was intended, or if delivered at or sent by registered or certified mail to the last business address known by the party providing notice.

13. In no event shall the Agreement automatically renew or be extended without a writing signed by the parties.
14. You agree that products produced or resulting from the performance of the Agreement are the sole property of the City and may not be used by you without the express written permission of the City.
15. For any Agreement involving the sharing or exchange of data involving potentially confidential and/or personal information, you shall comply with any and all state and/or federal laws or regulations applicable to confidential and/or personal information you receive from the City, including but not limited to the Rhode Island Identity Theft Protection Act, R.I. Gen. Laws § 11-49.3-1, during the term of the Agreement. You shall implement and maintain appropriate physical, technical, and administrative security measures for the protection of, and to prevent access to, use, or disclosure of, confidential and/or personal information. In the event of a breach of such information, you shall notify the City of such breach immediately, but in no event later than twenty-four (24) hours after discovery of such breach.
16. The Agreement is governed by the laws of the State of Rhode Island. You expressly submit yourself to and agree that any and all actions arising out of, in connection with, or resulting from the performance of the Agreement or relationship between the parties shall occur solely in the venue and jurisdiction of the State of Rhode Island or the federal court located in Rhode Island.
17. The failure of the City to require performance of any provision shall not affect the City's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.
18. If any term or provision of this Agreement, or the application thereof to any person or circumstance shall, in any extent, be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby, and each term and provision shall be valid and enforceable to the fullest extent permitted by law.



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PREVAILING WAGE

This project qualifies for prevailing wages per the Prevailing Wages Statute or the Davis Bacon Act (HUD). Certified payrolls will need to be submitted to the owner for all hours worked on site for this project.

The Wage Decision for this project shall be as recorded on the Bid Date and is available on the RI Department of Labor website.

Federal Labor Standards

U.S. Department of Housing & Urban Development

Applicability

The Project of Program to which the Construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

- A.1. (i) Minimum Wages. All laborers and mechanics employed or working up on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction of development of the project) will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification or work actually performed, without regard to skill, excepts as provided in 29 CFR Part 5.5 (a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFT part 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.
- (ii) (a) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contact shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 - (2) The classification is utilized in the area by the construction industry; and
 - (3) The proposed wage rate, including any bona fide fringe benefits, bears a relationship to the wage rates contained in the wage determination.
- (b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of



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receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140.)

- (c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)
- (d) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)
2. Withholding. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much that the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract. HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they are due. The comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.
3. (i) Payrolls and basic records. Payrolls and basic record relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonable anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) or the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits ins enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)



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- (ii) (a) The contractor shall submit weekly for each in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR Part 5.5(a)(3)(i). This information may be submitted in any form desired. Optional Form WH-34 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), Government Printing Office, Washington, Dc 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149.)
- (b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (1) That the payroll for the payroll period contains the information required to be maintained under 20 CFR Part 5.5 (a)(3)(i) and that such information is correct and complete;
- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;
- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (c) The weekly submission of a property executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph AA.3. (ii)(b) of this section.
- (d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code. (iii)
The contractor or subcontractor shall make the records required under paragraph A.3. (i) of this section available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR Part 5.12.
4. (i) Apprentices and Trainees. Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprentice program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the



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applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the even the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirement of Executive Order 11246, s amended, and 29 CFR Part 30.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.
6. Subcontracts. The contractor or subcontractor will insert in any subcontract the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as HUD or its designee may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all contract clauses in 29 CFR Part 5.5
7. Contracts termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor as provided in 29 CFR 5.12
8. Compliance with Davis-Bacon and Related Act Requirements. All ruling and interpretations of the Davis-Bacon and Related Act contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.
9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.
10. (i) Certification of Eligibility. By entering in to this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR part 24.
(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act of 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.
(iii) The penalty to making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1010, Title 18, U.S.C., "Federal Housing Administration transaction", provides in part: "Whoever,



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for the purpose of ...influencing in any way the action of such Administration...makes, utter or publishes any statement, knowing the same to be false...shall be fined not more than \$5,000 or imprisoned not more than two years, or both.”

11. Complaints, Proceedings, or Testimony by Employees. No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

B. Contract Work Hours and Safety Standards Act. As used in this paragraph, the terms “laborers” and “mechanics” include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in subparagraph (1) or this paragraph, the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$25 for each calendar day on which such individual was required or permitted to work in excess of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

(3) Withholding for unpaid wages for liquidated damages. HUD or its designees shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold of cause to be withheld from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

C. Health and Safety

(1) No laborer or mechanic shall be required to work in surrounding or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

(2) The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 (formerly Part 1518) and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act (Public Law 91-54, 83 Stat. 96).

(3) The Contractor shall include the provisions of this Article in every subcontract so that such provisions will be binding on each subcontractor. The Contractor shall take such action with respect to any subcontract as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.