



PROVIDENCE, RI

CUNLIFF LAKE BOARDWALK

AT ROGER WILLIAMS PARK

HONORABLE
BRETT P. SMILEY
MAYOR

WENDY NILSSON
SUPERINTENDENT OF PARKS

JUAN PICHARDO
CITY COUNCILOR

PROJECT TEAM

PARE CORPORATION
8 BLACKSTONE VALLEY
LINCOLN, RI 02865
401-334-4100

TRAVERSE LANDSCAPE ARCHITECTS
150 CHESTNUT STREET, 4TH FLOOR
PROVIDENCE, RI 02903
401-383-4950

SHEET SCHEDULE

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GENERAL NOTES

1. FOR THE PURPOSE OF THIS PROJECT
 - OWNER - PROVIDENCE PARKS DEPARTMENT
DALRYMPLE BOATHOUSE
PROVIDENCE, RI 02905
 - ENGINEER - PARE CORPORATION
10 LINCOLN ROAD, SUITE 210
FOXBORO, MA 02035
 - CONTACT - TODD TURCOTTE, P.E., VICE PRESIDENT
2. SEE SECTION 01 00 00 - GENERAL REQUIREMENTS OF TECHNICAL SPECIFICATIONS.
3. ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE RHODE ISLAND STATE BUILDING CODE, ALL FEDERAL AND MUNICIPAL BUILDING CODES, AND THE SPECIFICATIONS INCLUDED IN THIS CONTRACT. THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.
4. THE BASE PLAN WAS DEVELOPED BASED UPON PLAN ENTITLED "TOPOGRAPHIC SURVEY FOR ROGER WILLIAMS PARK CUNLIFF LAKE BOARDWALK" PREPARED BY MARTINEZ COUCH & ASSOCIATES, LLC OF ROCKY HILL, CONNECTICUT JUNE 2024. ANY DISCREPANCIES OR ERRORS ON THESE PLANS WITH REGARD TO DIMENSIONS OR CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.
5. FRESHWATER WETLANDS DELINEATED BY PARE CORPORATION ON MARCH 15, 2024.
6. HORIZONTAL DATUM: RHODE ISLAND STATE PLANE - NAD83
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED BY NOS TIDAL BENCH MARK
7. THE CONTRACTOR SHALL STAKE OUT ALL LAYOUTS OF PROPOSED WORK FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
8. INFORMATION REGARDING THE LOCATION OF SURROUNDING STRUCTURES AND UTILITIES IS FURNISHED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL CONDUCT ITS OWN INDEPENDENT EXAMINATION OF SITE CONDITIONS FOR THE PURPOSE OF BIDDING, FABRICATION, AND CONSTRUCTION ASSOCIATED WITH THE PROJECT. ANY RELIANCE UPON INFORMATION MADE AVAILABLE BY THE OWNER OR THE ENGINEER SHALL BE AT THE CONTRACTOR'S RISK
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS.
10. CONSTRUCTION SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY. ANY ERRORS OR DISCREPANCIES ON THE SHOP DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.
11. NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS. 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
13. THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ALL DAMAGE TO ADJACENT STRUCTURES AND UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
14. 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
15. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VISIT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY ADDITIONAL UTILITIES, STRUCTURES, OR ANY OTHER ELEMENTS WHICH MAY IMPEDE WORK. UTILITY AND/OR STRUCTURE RELOCATIONS, IF NECESSARY, SHALL BE COORDINATED THROUGH THE OWNER'S ENGINEER.
16. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE TO ACCURATELY LOCATE ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, 72 HOURS PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL COMMENCE UNTIL ALL

- INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE PROPERLY NOTIFIED.
17. THE CONTRACTOR SHALL FOLLOW ALL OSHA, FEDERAL, STATE, AND LOCAL STANDARDS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SITE SAFETY PROCEDURES AND PRACTICES REGARDLESS OF THE PRESENCE OF THE OWNER OR ENGINEER.
18. ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE LIMITS OF WORK AND TEMPORARY EASEMENTS DEFINED HEREIN. THE CONTRACTOR MUST OBTAIN ALL REQUIRED CITY, STATE, AND FEDERAL PERMITS.
19. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL BENCHMARKS AND CONTROL POINTS THROUGHOUT CONSTRUCTION.
20. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER WITHIN 5 DAYS OF THE NOTICE OF AWARD. THE CONTRACTOR SHALL UPDATE SCHEDULE AS NEEDED THROUGHOUT THE COURSE OF WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO DEMOLITION OR INSTALLATION OF ANY PORTION OF THE SITE WORK.
21. THE CONTRACTOR SHALL STAGE ALL EQUIPMENT IN THE DESIGNATED STAGING AREA. ALL GREASING AND REFUELING ACTIVITIES SHALL OCCUR IN THE STAGING AREA. ALL NECESSARY MEASURES SHALL BE TAKEN TO PREVENT BY ANY METHOD, OIL, CONSTRUCTION DEBRIS, STOCKPILED MATERIALS, AND OTHER MATERIALS ON THE SITE, FROM ENTERING THE WATERWAY. STAGING/LAYDOWN AREAS, AS APPROVED BY THE ENGINEER, SHALL BE RESTORED BY THE CONTRACTOR TO THE EXISTING CONDITION. IN ADDITION, THE CONTRACTOR SHALL REPLACE ALL DAMAGED MATERIALS AS A RESULT OF HIS OPERATIONS, TO THE SATISFACTION OF THE ENGINEER.
22. THE CONTRACTOR SHALL MAINTAIN A SECURE SITE AND PROVIDE APPROPRIATE SAFETY MEASURES TO PREVENT ACCIDENTS, VANDALISM, AND THEFT. THE SAFETY MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FENCES, FLASHING WARNING LIGHTS, AND POLICING IF NECESSARY.
23. IN CASE OF CONTRADICTION BETWEEN THE DRAWINGS, THE SPECIFICATIONS, AND THE CODES, OR IF ANY CHANGE ARE REQUIRED, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY. NO CHANGE SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
24. UPON COMPLETION OF THE PROJECT, CONTRACTOR IS TO PROVIDE A POST CONSTRUCTION SURVEY AND TWO AS-BUILT PLAN SETS TO THE OWNER DEPICTING ANY FIELD CHANGES OF DIMENSION OR DETAIL, LOCATION OF UNDERGROUND STRUCTURES AND/OR UTILITIES, CONSTRUCTION DEVIATIONS, CHANGES DUE TO FIELD OR CHANGE ORDER, AND DETAILS NOT ON THE ORIGINAL DRAWINGS. 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.

DEMOLITION NOTES

1. SEE SECTION 02 41 00 - SELECTIVE SITE DEMOLITION OF TECHNICAL SPECIFICATIONS.
2. ALL DEMOLITION SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF WORK.
3. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT, CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, UTILITY, AND LANDSCAPING PLANS.
4. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE ALL UNFORESEEN CONDITIONS WITH THE OWNER, ENGINEER, AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
5. WATER, SEWER, DRAINAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICE DURING CONSTRUCTION OPERATIONS WITHOUT APPROVAL FROM THE OWNER.
6. ALL UTILITIES REMOVED FROM THE SITE SHALL BE CUT AND CAPPED AT THE LIMIT OF DISTURBANCE UNLESS OTHERWISE NOTED.
7. PAVEMENT DEMOLITION SHALL BE SAWCUT AND DISPOSED OF PROPERLY.
8. REFER TO SPECIFICATIONS SECTION 02050 "DEMOLITION AND REMOVAL" FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
9. OIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK.
10. DISTURBED AREAS AND SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHOULD PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY AREAS HAVING A SLOPE GREATER THAN 3:1 SHALL BE REINFORCED WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL CONTAIN ALL SEDIMENT ONSITE. ALL EXITS FROM THE SITE WILL BE SWEEPED AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEEPED AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING SITE WORK.
12. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ESC MEASURES AND DISPOSED OF IN A PRE-APPROVED LOCATION BY THE CONTRACTOR.
13. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY.

EROSION & SEDIMENT CONTROL NOTES

1. SEE SECTION 31 25 00 - EROSION AND SEDIMENTATION CONTROL OF TECHNICAL SPECIFICATIONS.
2. SOIL EROSION AND SEDIMENTATION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE 'RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK', AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED. TO STABILIZED DISCHARGE POINTS. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY UTILITY CONNECTIONS.
6. A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE&/OR SILT SOCK) SHALL BE STOCKPILED ONSITE AT ALL TIMES.
7. THE CONTRACTOR SHALL PROTECT THE ADJACENT AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION OPERATIONS.
8. 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.
9. 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.
10. 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.
11. 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.
12. SOIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK.
13. 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.
14. THE CONTRACTOR SHALL CONTAIN ALL SEDIMENT ONSITE. ALL EXITS FROM THE SITE WILL BE SWEEPED AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEEPED AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING SITE WORK.
15. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ESC MEASURES AND DISPOSED OF IN A PRE-APPROVED LOCATION BY THE CONTRACTOR.
16. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RESTORING, AND REPAIRING ALL DAMAGE AS A RESULT OF UNAUTHORIZED WORK OR DISCHARGES AT NO ADDITIONAL COST TO THE OWNER.
18. THE LIMITS OF EROSION CONTROL BARRIERS SHALL BE MODIFIED OR EXPANDED AS FIELD CONDITIONS WARRANT.
19. ALL EROSION CONTROL BARRIERS SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER. ANY DAMAGED AREAS OF THE EROSION CONTROL BARRIER SHALL BE REPAIRED WITHIN 24 HOURS OF DISCOVERY.
20. DISCHARGE OF TURBID WATER TO ANY WATERWAY IS PROHIBITED.
21. ALL ON-SITE AND OFF-SITE DRAINAGE STRUCTURES AND PIPING SHALL BE JETTED AND CLEANED UPON COMPLETION OF THE SITE WORK.



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



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CONSULTANT



SEAL / SIGNATURE

STAMP

PROJECT:

**Cunliff Lake Boardwalk
at Roger Williams Park**

1000 Elmwood Avenue
A.P. 90, Lot 157
Providence, RI 02095

REVISIONS:

Date	Issued For:
1/13/2025	Permit Set
2/7/2025	Draft Set
3/10/2025	IFB Set

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 3/10/2025
PROJECT NO: RWBD.21.01
DRAWN BY: KAD
CHECKED BY: TDT

SHEET TITLE

Cover Sheet

0-0

1 OF 22

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION

LAYOUT NOTES

- ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
- 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.
- 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.
- ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- ALL PLACEMENT OF SITE FURNISHINGS, BOULDERS, PLAY STRUCTURES AND OUTDOOR FITNESS EQUIPMENT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

PLANTING NOTES

- SEE SECTION 32 91 13 - SOIL PREPARATION, 32 92 00 - TURF AND GRASSES, AND 32 93 00 - PLANTS OF TECHNICAL SPECIFICATIONS.
- 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.
- ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- 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.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- 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.
- ALL NEW PLANTS SHALL BE SUPPLIED AND INSTALLED DURING THE PERIODS OF APRIL 1 - JUNE 15 AND/OR SEPTEMBER 1 - NOVEMBER 15 PER SPECIFICATIONS.
- 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.
- 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.
- ALL BURLAP, TWINE AND WIRE SHALL BE COMPLETELY REMOVED OR CUT AWAY AT TIME OF INSTALLATION.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- PLANT WARRANTY SHALL BE FOR ONE FULL GROWING SEASON FROM THE TIME OF SUBSTANTIAL COMPLETION.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL COMPLETION OF MAINTENANCE PERIODS OR GUARANTEE PERIODS.
- 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.
- 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.
- ALL AREAS TO BE SEEDED OR SODDED SHALL RECEIVE SIX INCHES (6") OF LOAM, MEASURED AFTER INSTALLATION, PRIOR TO SEEDING.
- ALL EXISTING LAWN AREAS DESIGNED TO REMAIN SHALL BE AERATED, FERTILIZED AND OVERSEEDED, AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- IN ADDITION TO LOCATIONS DEFINED FOR SEED ON THE PLANTING PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING ANY DISTURBED AREAS.
- 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.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CLOSE COORDINATION WITH OWNER, GENERAL CONTRACTOR, RELATED SUBCONTRACTORS, LANDSCAPE ARCHITECT, AND ALL SITE WORK RELATED ITEMS.

SPILL PREVENTION AND CONTROL NOTES

- SPILLS AND LEAKS SHALL BE AVOIDED THROUGH FREQUENT INSPECTION OF EQUIPMENT AND MATERIAL STORAGE AREAS, AND SHALL BE REMEDIATED AND REPAIRED AS NECESSARY.
- HAZARDOUS MATERIAL STORAGE TO BE PLACED ONLY IN DESIGNATED AREAS. MATERIAL STORAGE AREAS SHALL BE ROUTINELY INSPECTED FOR LEAKY CONTAINERS, OPEN CONTAINERS, OR IMPROPER STORAGE TECHNIQUES THAT MAY LEAD TO SPILLS OR LEAKS.
- APPROPRIATE SPILL REMEDIATION PROCEDURES AND SUPPLIES SHALL BE READILY AVAILABLE ON-SITE. TOOLS AND SUPPLIES SHALL BE CLEARLY MARKED SO THAT ALL PERSONNEL CAN LOCATE AND ACCESS THESE SUPPLIES.
- SPILL REMEDIATION SHALL BE PERFORMED IMMEDIATELY. CONTRACTOR SHALL FOLLOW PROPER RESPONSE PROCEDURES IN ACCORDANCE WITH ANY APPLICABLE REGULATORY REQUIREMENTS.
- AT NO TIME SHALL SPILLS BE DIVERTED TOWARD STORM DRAINS OR TO ANY WATERWAY.
- EQUIPMENT/VEHICLE FUELING AND REPAIR/MAINTENANCE OPERATIONS SHALL TAKE PLACE ONLY WITHIN DESIGNATED STAGING AREAS.
- THE EQUIPMENT OPERATOR SHALL FULLY MONITOR FUELING OPERATIONS TO EQUIPMENT AND VEHICLES AT ALL TIMES.
- ANY SPILLAGE SHALL BE IMMEDIATELY CLEANED WITH SPILL KITS KEPT ON SITE.
- IN THE CASE OF SMALL AMOUNTS OF SOIL CONTAMINATION, SUCH SOIL SHALL BE PLACED IN 55 GALLON DRUMS FOR DISPOSAL BY A LICENSED HAZARDOUS WASTE HAULER.
- IN THE CASE OF A LARGE AMOUNT OF SOIL CONTAMINATION OR DISCHARGE TO THE WATERWAY, RHODE ISLAND DEM AND APPLICABLE AGENCIES SHALL BE NOTIFIED AS REQUIRED. A HAZARDOUS WASTE REMEDIATION FIRM SHALL BE CONTRACTED TO REMOVE AND DISPOSE OF THE CONTAMINATED MATERIAL OR CONTAIN THE SPILL AT NO ADDITIONAL COST.

GRADING & UTILITY NOTES

- SEE SECTIONS 26 00 00 - ELECTRICAL, 31 22 13 - ROUGH GRADING, 32 16 13.23 - PRECAST CONCRETE CURBS AND GUTTERS, AND 32 91 19 - LANDSCAPE GRADING OF TECHNICAL SPECIFICATIONS.
- ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEERS APPROVAL.
- ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS, UNLESS OTHERWISE DIRECTED.
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
- ALL EXISTING AND PROPOSED UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE OF THIS CONTRACT. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINAL GRADES.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED, INCLUDING OBTAINING ALL PERMITS. ALL COSTS AND FEES BY PRIVATE UTILITY COMPANIES TO BRING SERVICE TO THE SITE SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
- DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- SITE GRADES SHALL CONFORM WITH ADA REQUIREMENTS.
- CONTRACTOR IS REQUIRED TO APPLY FOR, OBTAIN, AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION PHASE PERMITS. PERMITS MAY INCLUDE, BUT NOT LIMITED TO:
 - RHODE ISLAND STATE BUILDING OFFICIAL (INCLUDING BUT NOT LIMITED TO BUILDING, PLUMBING, FIRE, ELECTRICAL, AND MECHANICAL)
 - CITY OR PROVIDENCE DEPARTMENT OF PUBLIC WORKS PERMITS

CAST-IN-PLACE/PRECAST CONCRETE NOTES

- SEE SECTIONS 03 11 00 - CONCRETE FORMING AND 03 30 00 - CAST IN PLACE CONCRETE OF TECHNICAL SPECIFICATIONS.
- CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE RHODE ISLAND STATE BUILDING CODE.
- ALL PRECAST CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE PCI OR FABRICATOR FOR PRECAST/FABRICATED ELEMENTS [2018 INTERNATIONAL BUILDING CODE (IBC) SECTIONS 1704.2.5-1704.2.5.1]
- CONCRETE SHALL BE PLACED UNDER THE SUPERVISION OF THE APPROVED TESTING AGENCY.
- CONCRETE SHALL BE NORMAL WEIGHT, WITH TYPE II CEMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 5,000 PSI-TYPICAL. ALL CONCRETE DESIGN MIXES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- ALL CONCRETE SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT OF 6% +/- 1%.
- ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" x 45 DEGREES UNLESS NOTED OTHERWISE.
- WHEN CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE INTERFACE SHALL BE CLEAN, FREE OF LAITANCE AND INTENTIONALLY ROUGHENED OR RAKED TO FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH.
- CONCRETE WASHOUT OPERATIONS TO OR WITHIN WATERWAY MUST NOT TAKE PLACE AT ANY TIME. ANY CEMENT OR CONCRETE DEBRIS LEFT IN THE DISTURBED AREA SHALL BE REMOVED BY HAND AT THE CONTRACTOR'S EXPENSE.
- ENGINEER TO APPROVE EXCAVATION ON FIRM SUBSTRATUM AND UNSATISFACTORY MATERIAL TO BE REMOVED.
- SPECIAL INSPECTION OF FABRICATED ITEMS: COMPLETE SPECIAL INSPECTIONS OF FABRICATED ITEMS PER SECTION 1704.2.5 AND 1704.2.5.1 OF THE 2018 IBC.

REINFORCING STEEL NOTES

- SEE SECTION 03 20 00 - CONCRETE REINFORCING OF TECHNICAL SPECIFICATIONS.
- REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND THE RHODE ISLAND STATE BUILDING CODE.
- ALL PRECAST CONCRETE REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF THE PCI OR FABRICATOR FOR PRECAST/FABRICATED ELEMENTS [1704.2.5-17054.2.5.1].
- COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFORCING STEEL SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF THAT PORTION OF THE WORK. ALL ACCESSORIES MUST BE SHOWN ON THE SHOP DRAWINGS.
- REINFORCING BARS SHALL BE GALVANIZED AND CONFORM TO ASTM A615 OR A706 (WELDABLE) GRADE 60.
- ALL SUPPORTS SUCH AS CHAIRS, BOLSTERS, SPACERS, BLOCKS AND HANGERS SHALL BE OF NON-CORROSIIVE MATERIAL. BLOCKS SHALL BE MADE OF 5,000 PSI (UN-REINFORCED) CONCRETE.
- UNLESS NOTED ON THE DRAWINGS, THE MINIMUM CONCRETE PROTECTION (CLEAR COVER) FOR CAST-IN-PLACE CONCRETE COVER SHALL BE AS FOLLOWS:
 - FORMED CONCRETE EXPOSED TO EARTH OR WATER: 3"
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 4"
- MINIMUM REINFORCEMENT DEVELOPMENT LENGTH SHALL BE IN ACCORDANCE WITH ACI 318 FOR CLASS B LAPS UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS, AROUND CORNERS, AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS

STRUCTURAL TIMBER NOTES

- SEE SECTION 06 13 00 - HEAVY TIMBER CONSTRUCTION OF TECHNICAL SPECIFICATIONS.
- STRUCTURAL DESIGN IS BASED ON SOUTHERN YELLOW PINE NO.1 WITH MINIMUM REFERENCE DESIGN VALUES AS SPECIFIED IN THE TABLE BELOW:

COMPONENT	BENDING F _b (PSI)	SHEAR F _v (PSI)	COMPRESSION PERPENDICULAR TO GRAIN F _{c⊥} (PSI)	COMPRESSION PARALLEL TO GRAIN F _c (PSI)	TREATMENT (PCF)
6x10 SYP	1350	165	375	825	0.6 CCA
6x12 SYP	1350	165	375	825	0.6 CCA

- ALL TIMBER FRAMING MEMBERS SHALL BE ROUGH GRADED UNLESS OTHERWISE NOTED.
- TIMBER DESIGNATED AS TREATED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C2, SERVICE CONDITION UC4B.
- ALL NAILING REQUIREMENTS LISTED ARE BASED UPON THE USE OF COMMON WIRE NAILS (NOT SINKERS, BOX, ETC...). ALTERNATIVE NAIL TYPES OF EQUIVALENT DIAMETERS MAY BE SUBSTITUTED, WITH PRIOR APPROVAL OF ENGINEER OF RECORD.
- ALL BOLTS, NUTS, WASHERS, LAGS, AND SCREWS, SHALL BE MEDIUM CARBON STEEL WITH GALVANIZED COATING. SIZE AND TYPE TO SUIT APPLICATION IN CONFORMANCE WITH ASTM A153.
- BRUSH OR ROLLER APPLY TWO COATS OF WOOD PRESERVATIVE TO ANY SURFACE WHICH HAS BEEN FIELD CUT, DRESSED, OR DRILLED.

COMPOSITE PILE NOTES

- SEE SECTION 31 62 23 - COMPOSITE PILES OF TECHNICAL SPECIFICATIONS.
- FIBER REINFORCED POLYMER (FRP) PILES SHALL HAVE A MINIMUM DIAMETER OF 12 INCHES WITH A 3/8" WALL THICKNESS. THE PILES SHALL BE INSTALLED AT A 1H:20V BATTER FOR THE PILES SUPPORTING THE BOARDWALK. PILES SUPPORTING THE FISHING OVERLOOK WILL BE INSTALLED CONCENTRICALLY, WITHOUT A BATTER.
 - BENDING STRESS = 54,289 PSI
 - MODULUS OF ELASTICITY = 4,587,990 PSI
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A PILE DRIVING LOG OF DRIVEN DEPTHS AND WILL BE RESPONSIBLE FOR REPORTING ANY PILE OR SET OF PILES NOT MEETING DESIGN REQUIREMENTS AS STATED ON THE SET OF PLANS.

DESIGN CRITERIA

SNOW LOADS (2018 IBC SECTION 1608, 2021 RHODE ISLAND STATE BUILDING CODE TABLE 1608.1)
SNOW LOAD: P_s = 30 PSF

WIND LOADS (2018 IBC SECTION 1609, 2021 RHODE ISLAND STATE BUILDING CODE TABLE 1608.1)
BASIC WIND SPEED = 115 MPH

LIVE LOADS (ASCE/SEI 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES TABLE 4.3-1)
PEDESTRIAN LOADING = 100 PSF

EARTHQUAKE LOADS (2018 IBC SECTION 1614)
MAPPED ACCELERATIONS: S_s = 0.176g
S₁ = 0.062g

SITE CLASS D, F_a = 1.6 S_{MS} = 0.282g
F_v = 2.4 S_{M1} = 0.149g

DESIGN SPECTRAL RESPONSE ACCELERATIONS AT 5% DAMPENING, S_{D5} = 0.188g
S_{D1} = 0.099g

D1 GENERAL DESIGN RESPONSE SPECTRAL ACCELERATION, PGA = 0.172g
SEISMIC DESIGN CATEGORY B

LEGEND

EXISTING		PROPOSED
	TREELINE	
	CONCRETE WALL	
	RETAINING WALL	
	CONTOUR 1'	
	CONTOUR 5'	
	SPOT ELEVATION	
	FLOOD ZONE BOUNDARY	
	ZONE "X"	
	AREAS OF 0.2% CHANCE FLOOD (SEE FEMA MAP)	
	AREAS OF ROCKS, BOULDERS & OUTCROPS	
	HORIZONTAL CONTROL	
	VERTICAL CONTROL	
	EDGE OF PAVEMENT	
	CURBING	
	WATER LINE	
	HYDRANT	
	GATE VALVE	
	CURBSTOP (WSO)	
	COUPLING	
	REDUCER	
	SIGN	
	CONSTRUCTION SECURITY CHAIN LINK FENCE	
	DUMPSTER ENCLOSURE	
	BITUMINOUS PAVEMENT (SEE LABEL FOR TYPE)	
	CONCRETE WALK (SEE LABEL FOR TYPE)	
	EROSION CONTROL	
	LIMIT OF DISTURBANCE	
	SAWCUT	
	TC/BC	
	FUEL MANHOLE	
	SOIL BORING	

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PROJECT:

Cunliff Lake Boardwalk at Roger Williams Park

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A.P. 90, Lot 157
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REVISIONS:

Date	Issued For:
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NORTH ARROW

SCALE

DRAWING INFO

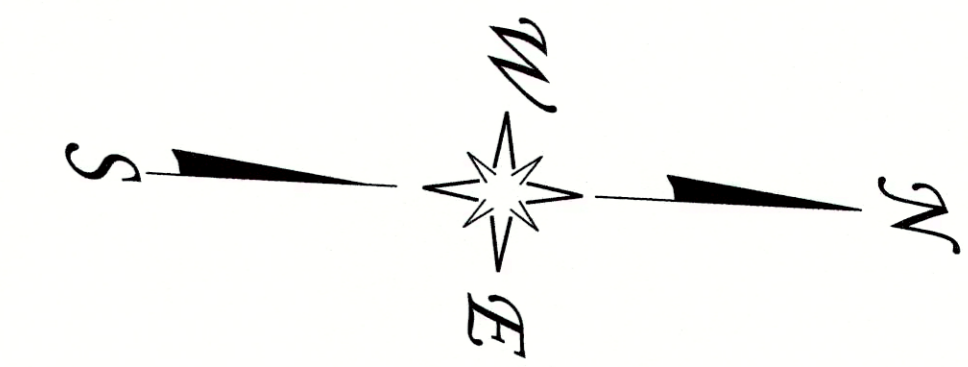
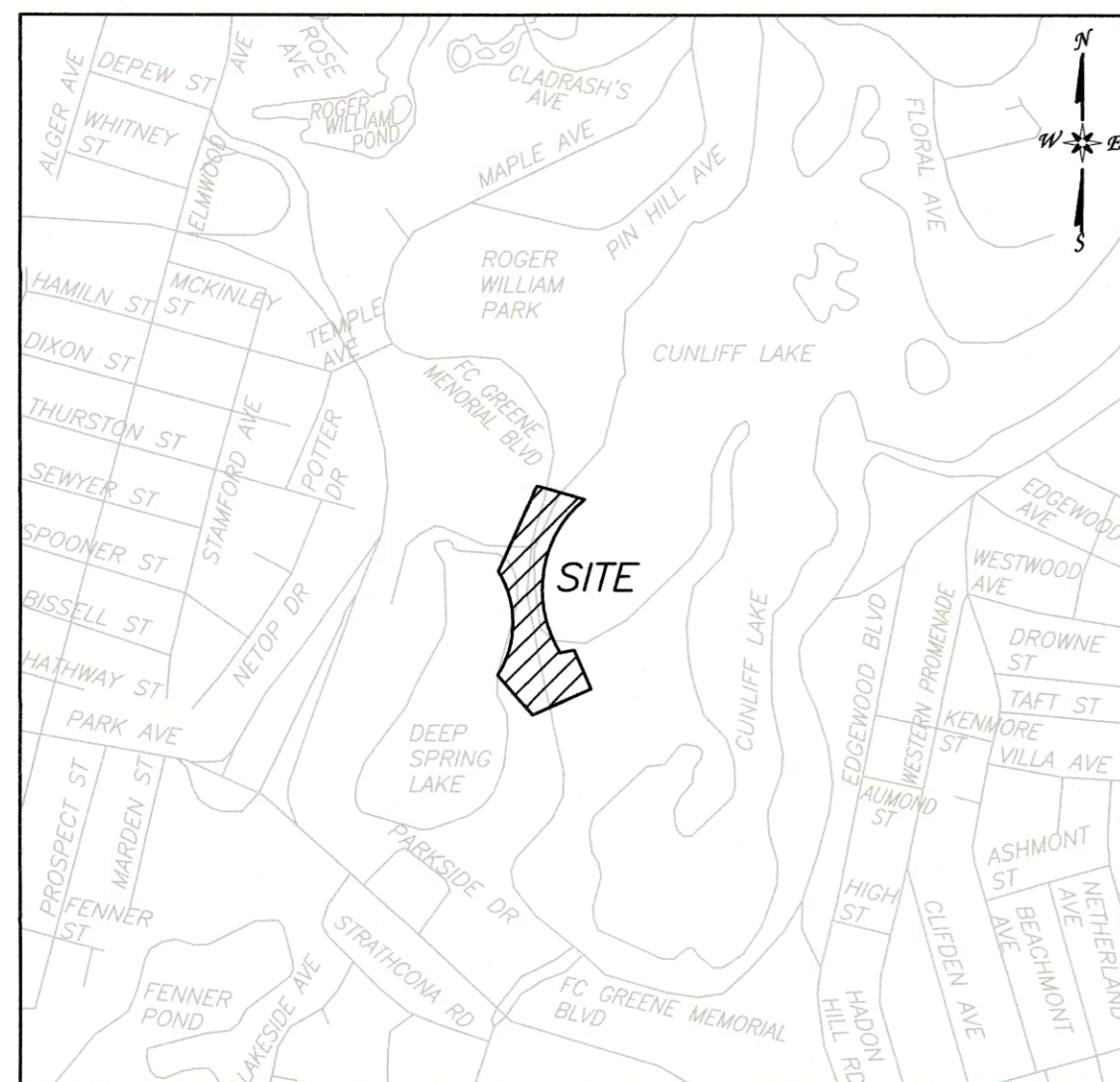
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GENERAL NOTES

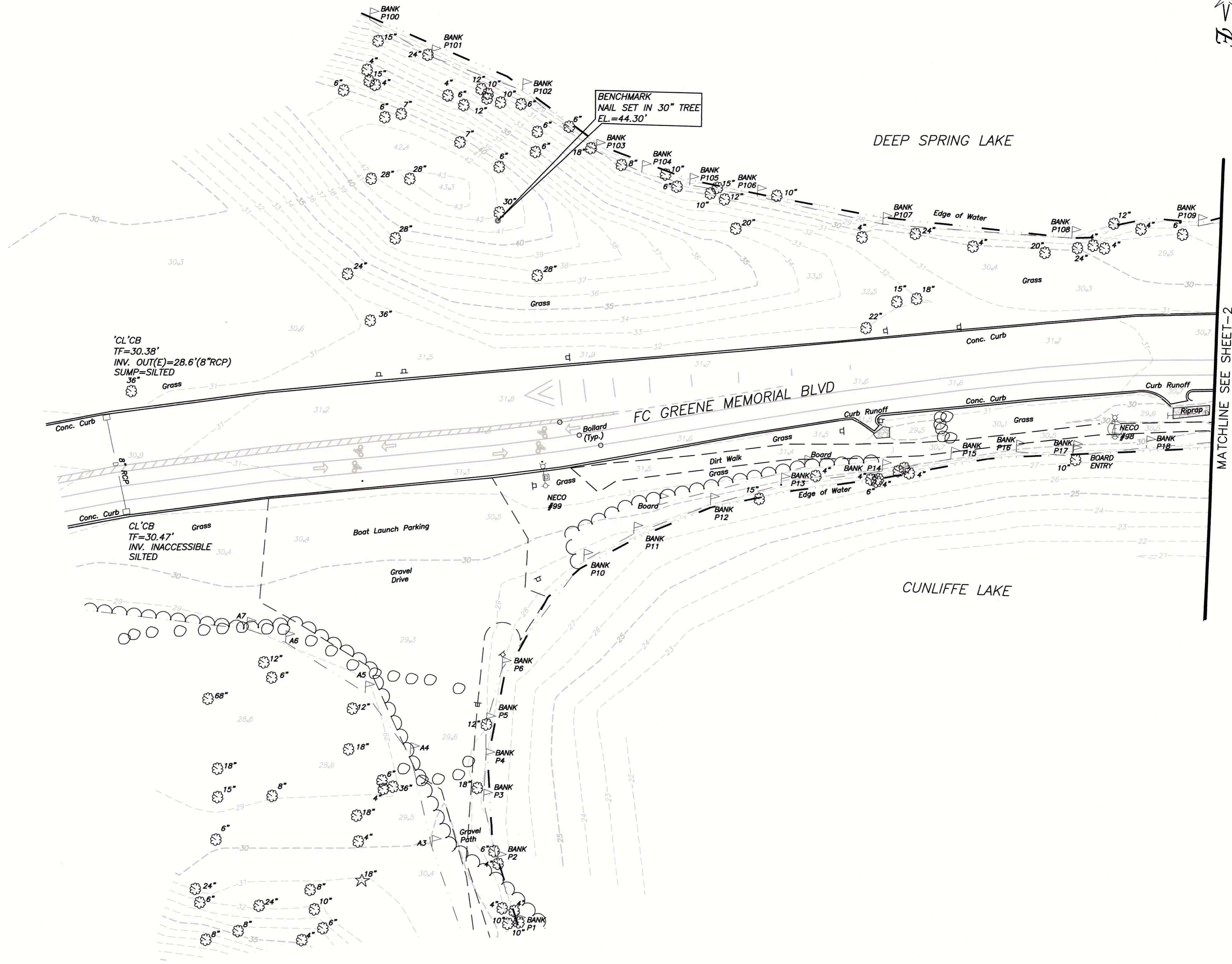
G1.0

2 OF 22



SURVEY NOTES:

- 1) THIS SURVEY AND MAP HAS BEEN PREPARED TO HORIZONTAL ACCURACY CLASS III AND A TOPOGRAPHIC ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED TO DEPICT EXISTING CONDITIONS.
- 2) NORTH ORIENTATION AND COORDINATES REFER TO RHODE ISLAND STATE PLANE COORDINATE SYSTEM NAD 83.
- 3) ELEVATIONS ARE BASED ON NAVD 88 OBTAINED UTILIZING RTK GPS METHODS, OBSERVATIONS MADE ON 03/26/2024.
- 4) PARCEL IS IN ZONE A FLOOD HAZARD ZONES AS DEPICTED ON THE FLOOD INSURANCE RATE MAP, TOWN OF GRANSTON, RHODE ISLAND, PANEL 318 OF 451, COMMUNITY PANEL NUMBER 44007C0318H, MAP REVISED OCTOBER 02, 2015 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- 5) NOT ALL IMPROVEMENTS ARE SHOWN.

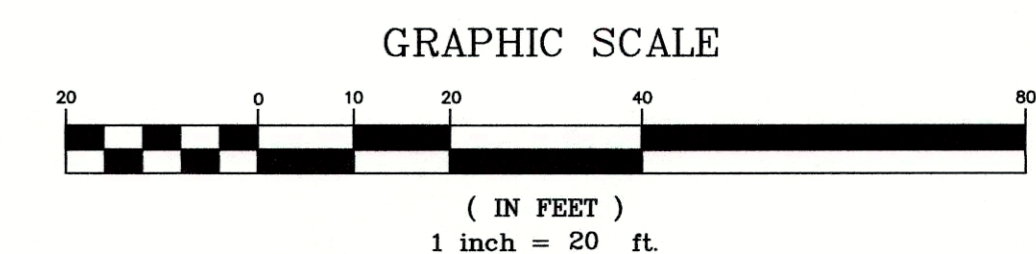


MATCHLINE SEE SHEET-2

SYMBOLS LEGEND

● Benchmark	○ Wetland Flag
□ Monument	○ Rock/Boulder
⊕ Utility Pole w/ Light	- - - 100 - - - Contour Line
⊙ Deciduous Tree	101.8 Spot Grade
☆ Coniferous Tree	— — — — — Guardrail
● Bush	— — — — — Stone Wall
○ Post/Bollard	— — — — — Treeline
□ Sign	— — — — — Underground Drain Line
⊙ Handhole	— · — · — Edge of Lake

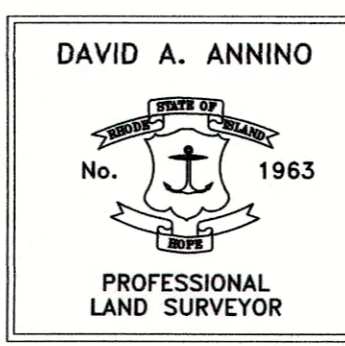
NOTES:
INDICATED UNDERGROUND UTILITIES ARE BASED ON ACTUAL FIELD LOCATIONS AND AVAILABLE NOTES AND MAPPING BY OTHERS. THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL HAVE ALL UTILITIES MARKED ON THE GROUND.



1084 Cromwell Avenue, Suite A-2
Rocky Hill, CT 06067
Telephone: (860) 436-4364
Fax: (860) 436-4626
www.martinezcouch.com

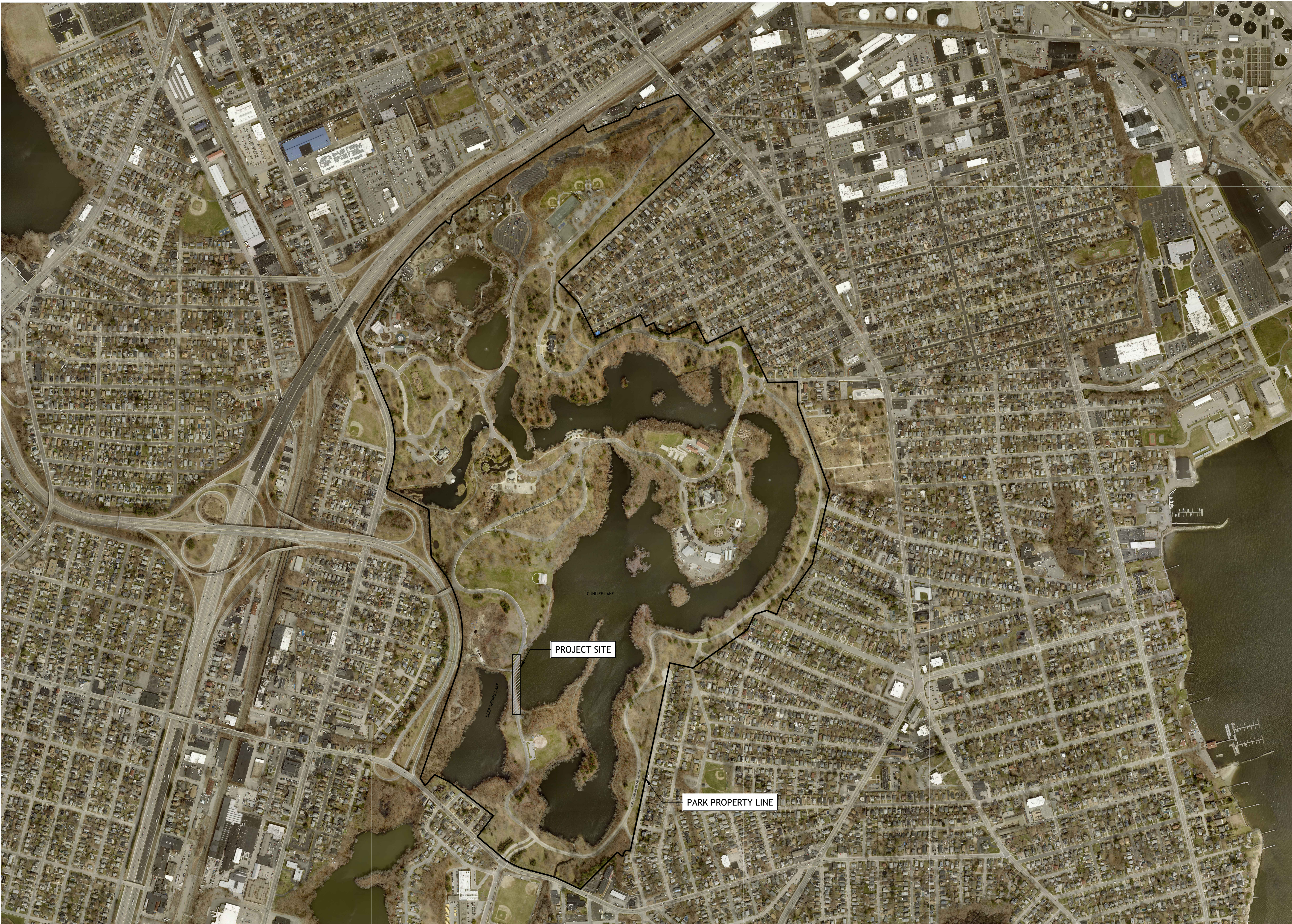
**ROGER WILLIAMS PARK
CUNLIFF LAKE BOARDWALK**
PROVIDENCE, RHODE ISLAND
PREPARED FOR: PARE CORPORATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:
TOPOGRAPHIC SURVEY - CLASS T-2
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TO DEPICT EXISTING TOPOGRAPHIC CONDITIONS.
DAVID A. ANNINO P.L.S. #1963, COA #LS-A711 DATE 4/11/2024
THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL

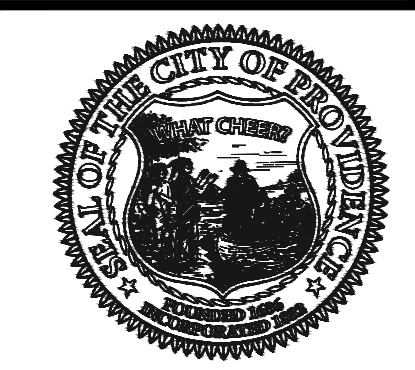


NO.	DATE	REVISIONS	BY	CHK	APPY
DRAWN BY: TDL		CHECKED BY: JPB	SCALE: 1"=20'	DATE: 04-11-2024	

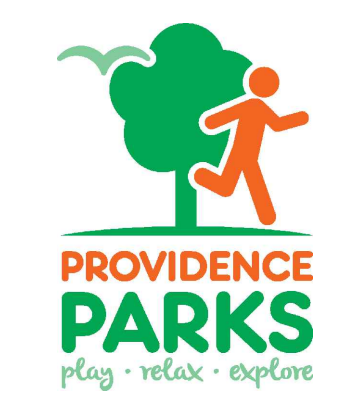
DATA ACCUMULATION PLAN		
TOPOGRAPHIC SURVEY		
JOB NO.	DRAWING NUMBER	SHEET
2023-307	2023-307 Cunliff Broadway RWP.DWG	1 OF 2



AERIAL SITE PLAN
SCALE: 1:500



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Providence, RI 02095

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NORTH ARROW

SCALE

DRAWING INFO

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SHEET TITLE

AERIAL

C1.2

5 OF 22

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FILE: C1.2 AERIAL.dwg



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NORTH ARROW

SCALE

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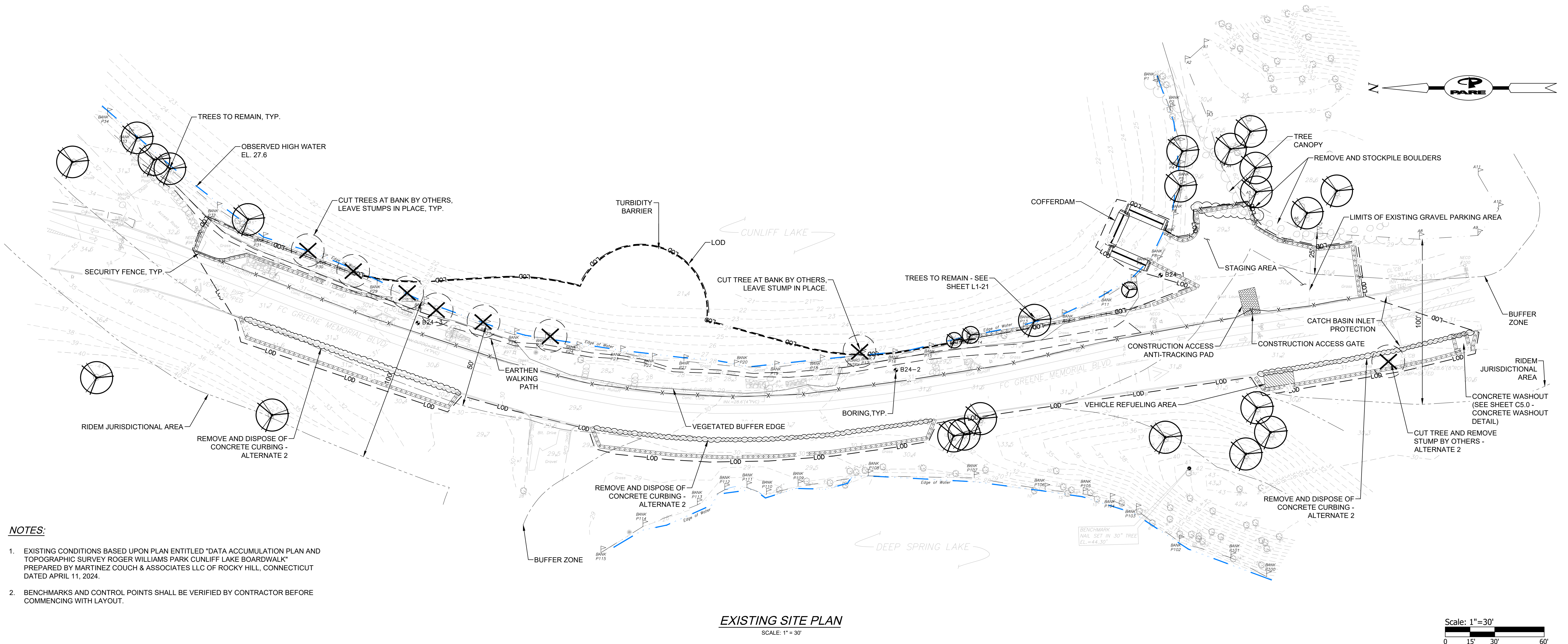
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EXISTING SITE AND DEMO PLAN

C2.0

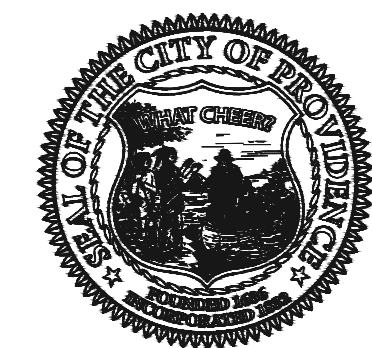
6 OF 22



- NOTES:**
- EXISTING CONDITIONS BASED UPON PLAN ENTITLED "DATA ACCUMULATION PLAN AND TOPOGRAPHIC SURVEY ROGER WILLIAMS PARK CUNLIFF LAKE BOARDWALK" PREPARED BY MARTINEZ COUCH & ASSOCIATES LLC OF ROCKY HILL, CONNECTICUT DATED APRIL 11, 2024.
 - BENCHMARKS AND CONTROL POINTS SHALL BE VERIFIED BY CONTRACTOR BEFORE COMMENCING WITH LAYOUT.

EXISTING SITE PLAN
SCALE: 1" = 30'

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NORTH ARROW

SCALE

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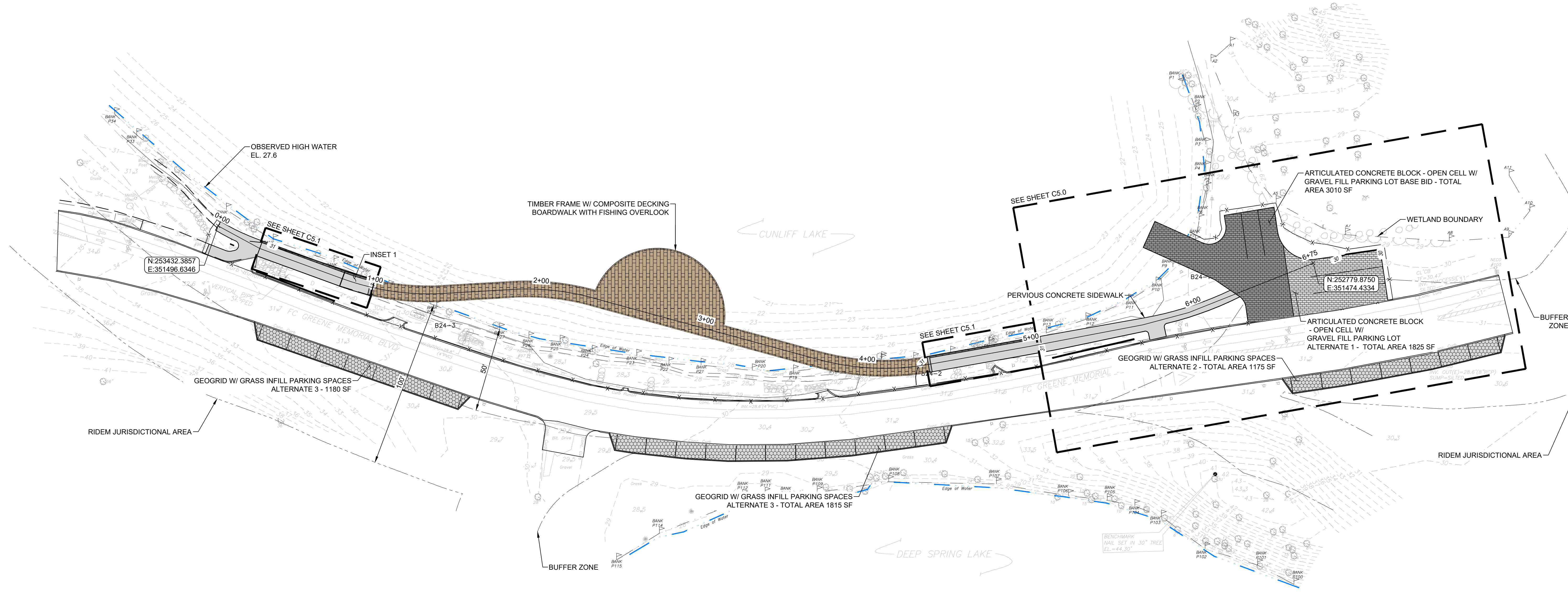
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SHEET TITLE

**PROPOSED
SITE PLAN**

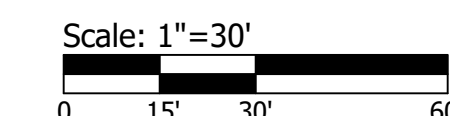
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EXISTING SITE PLAN

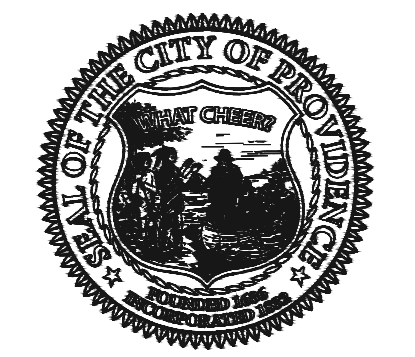
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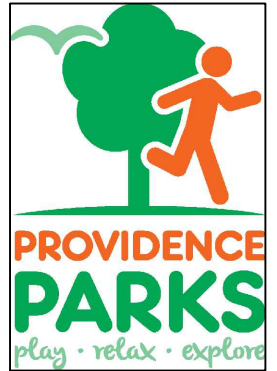
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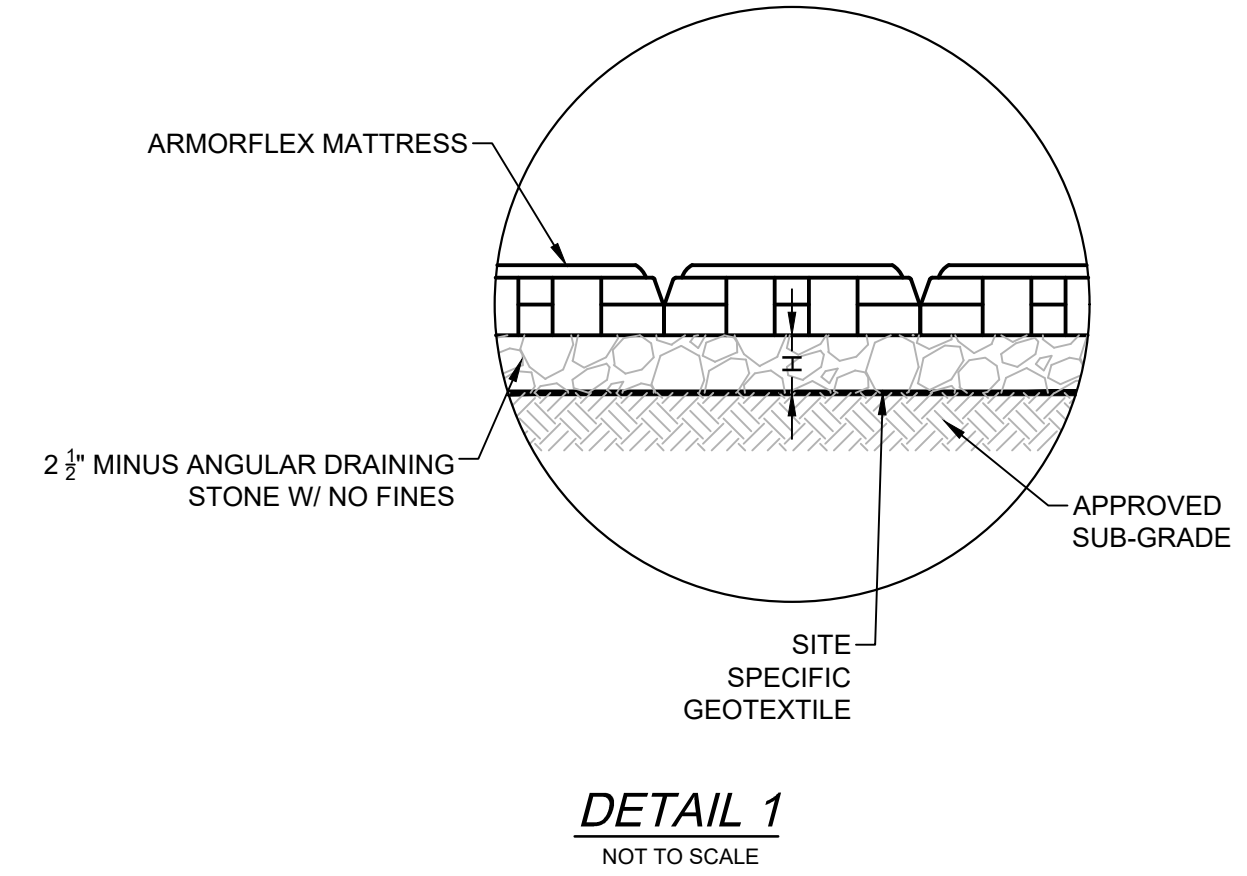
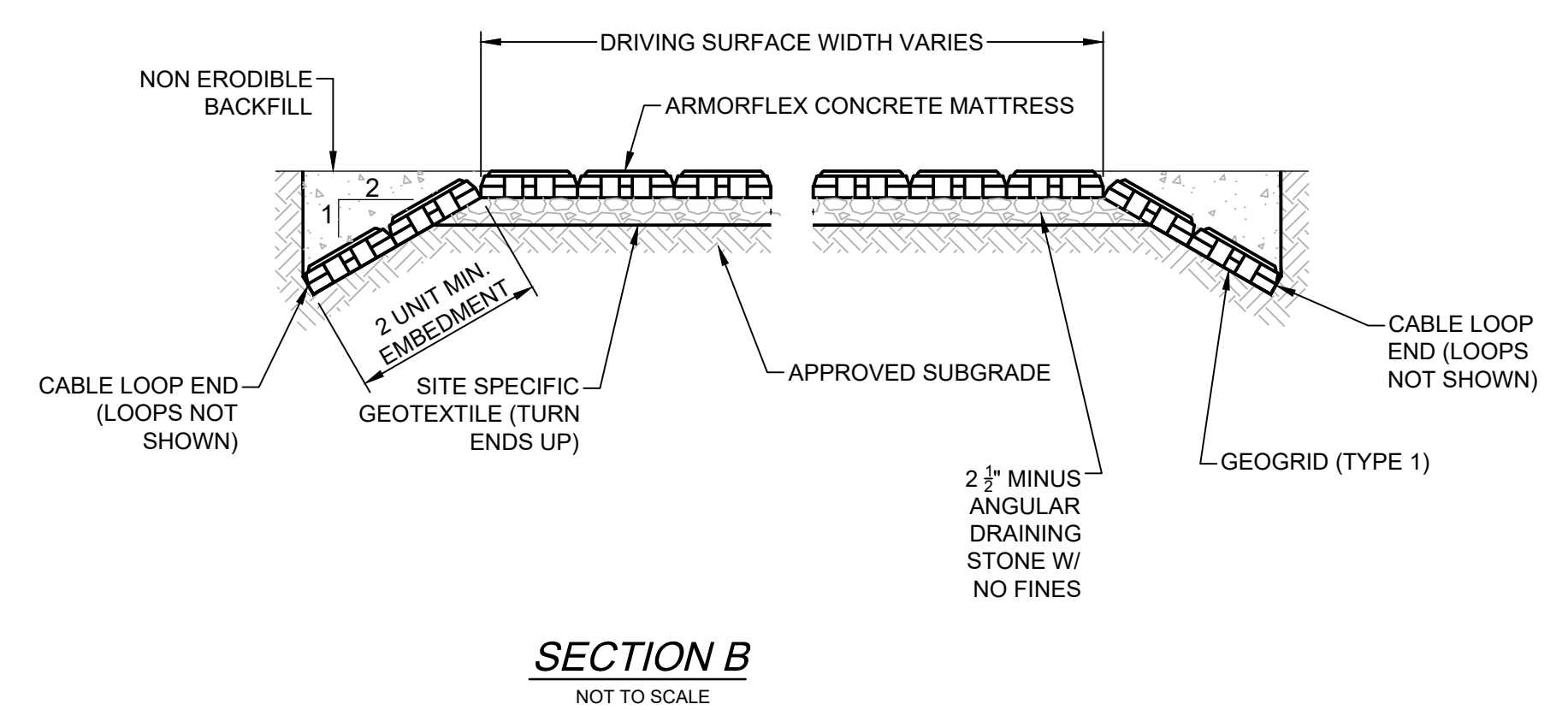
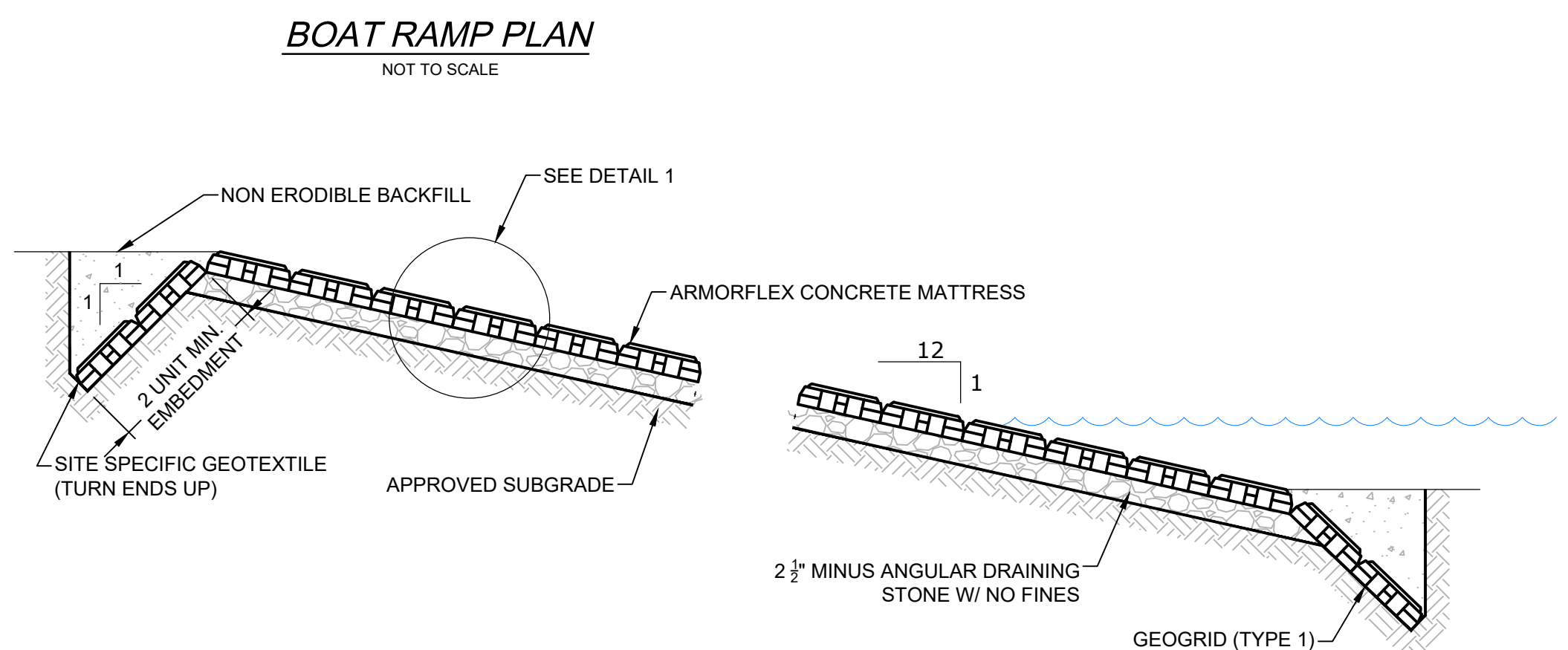
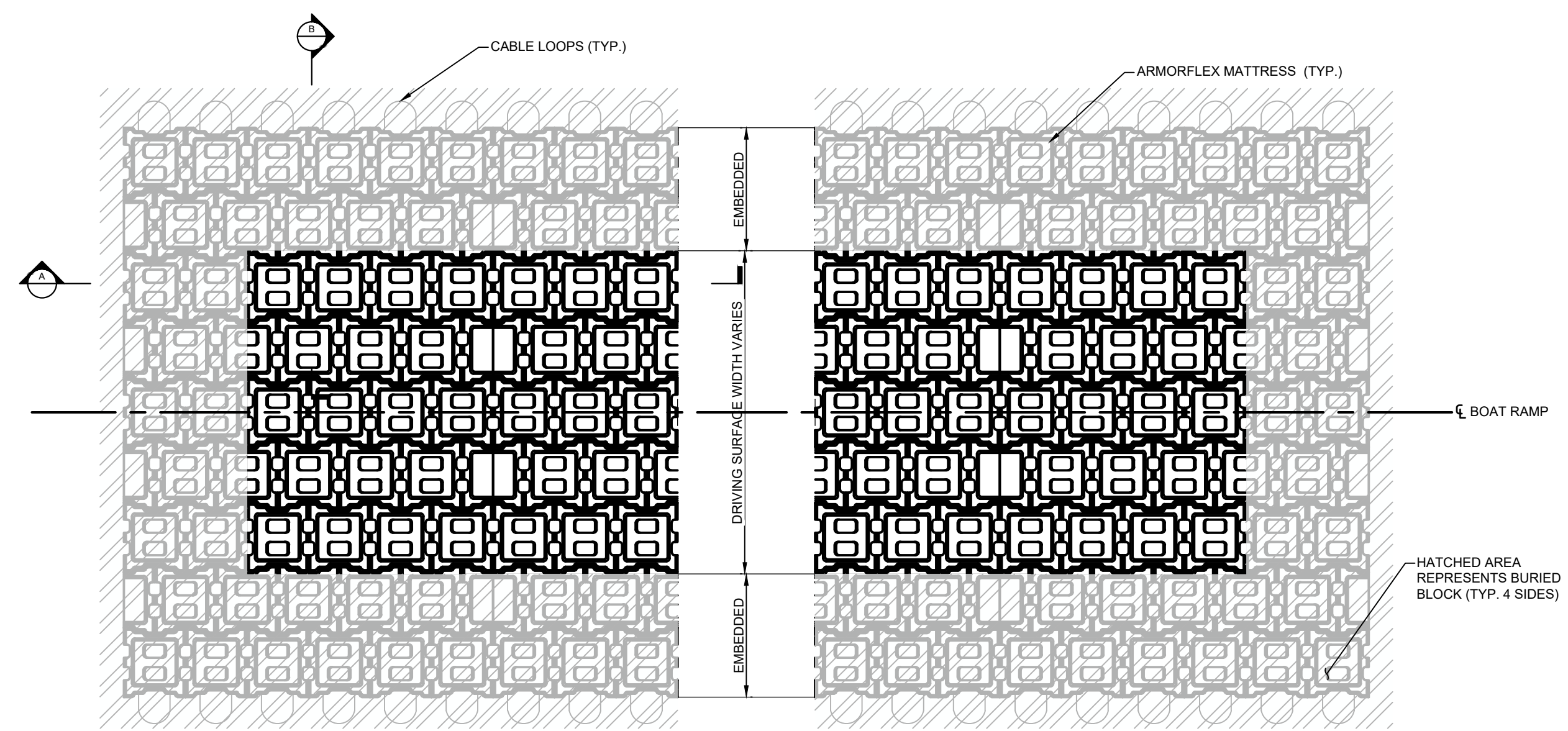
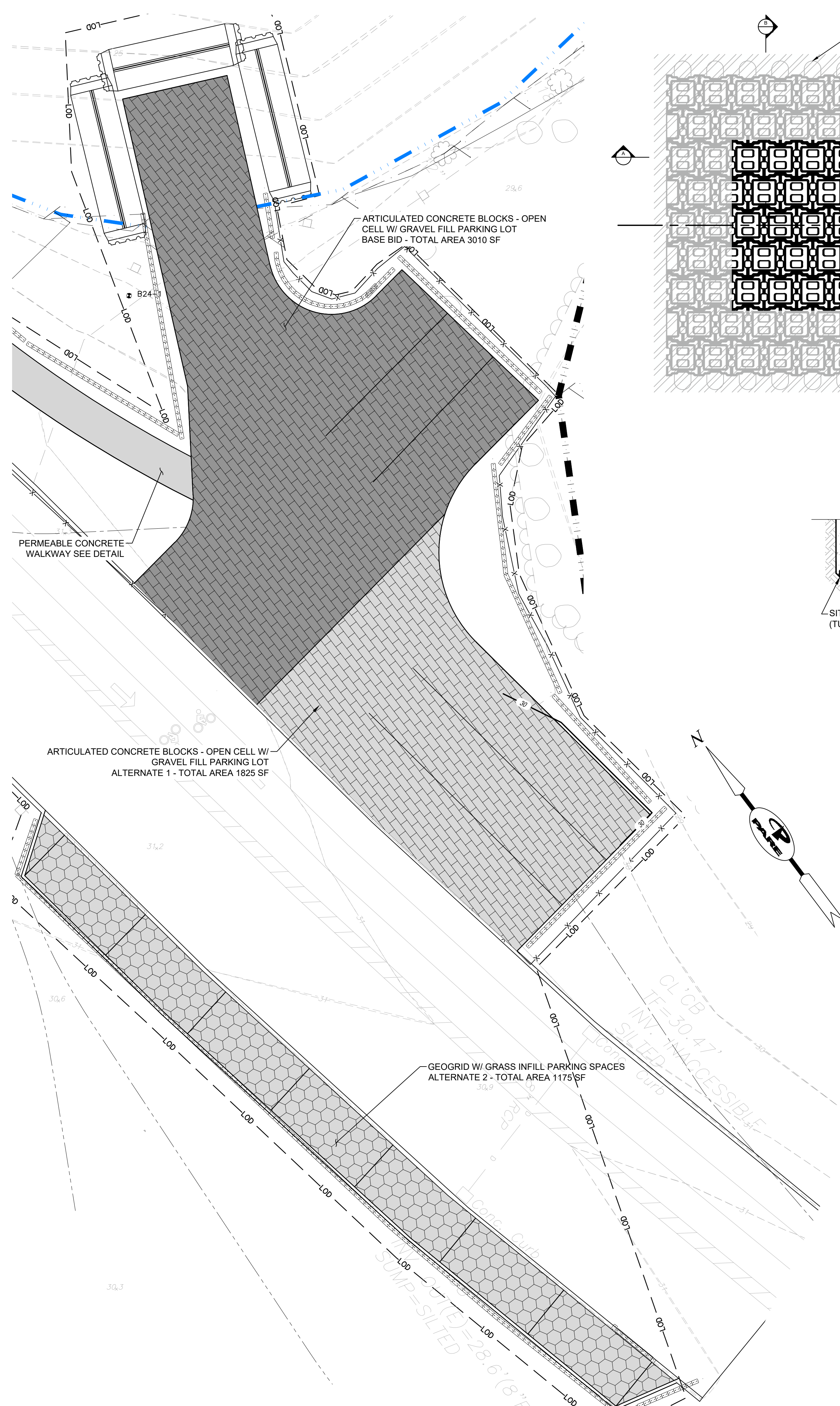
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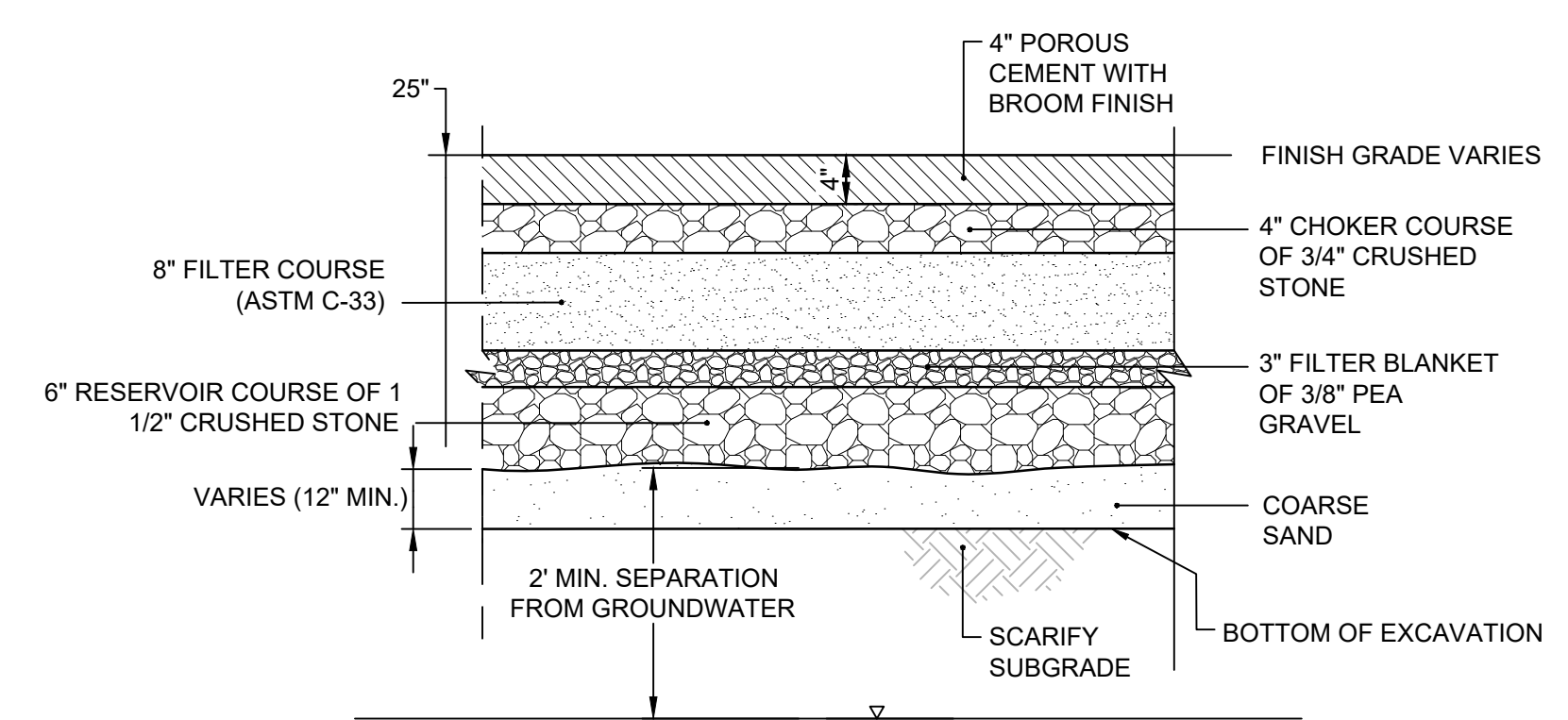
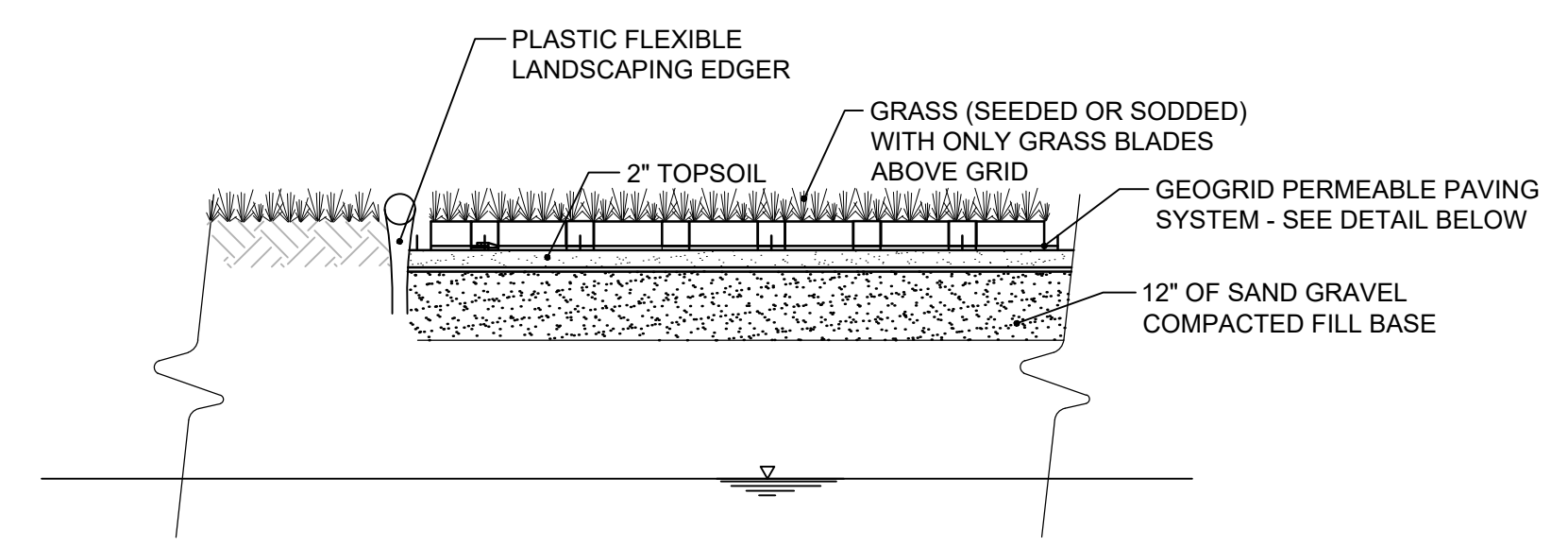
BOAT RAMP SECTIONS & DETAILS
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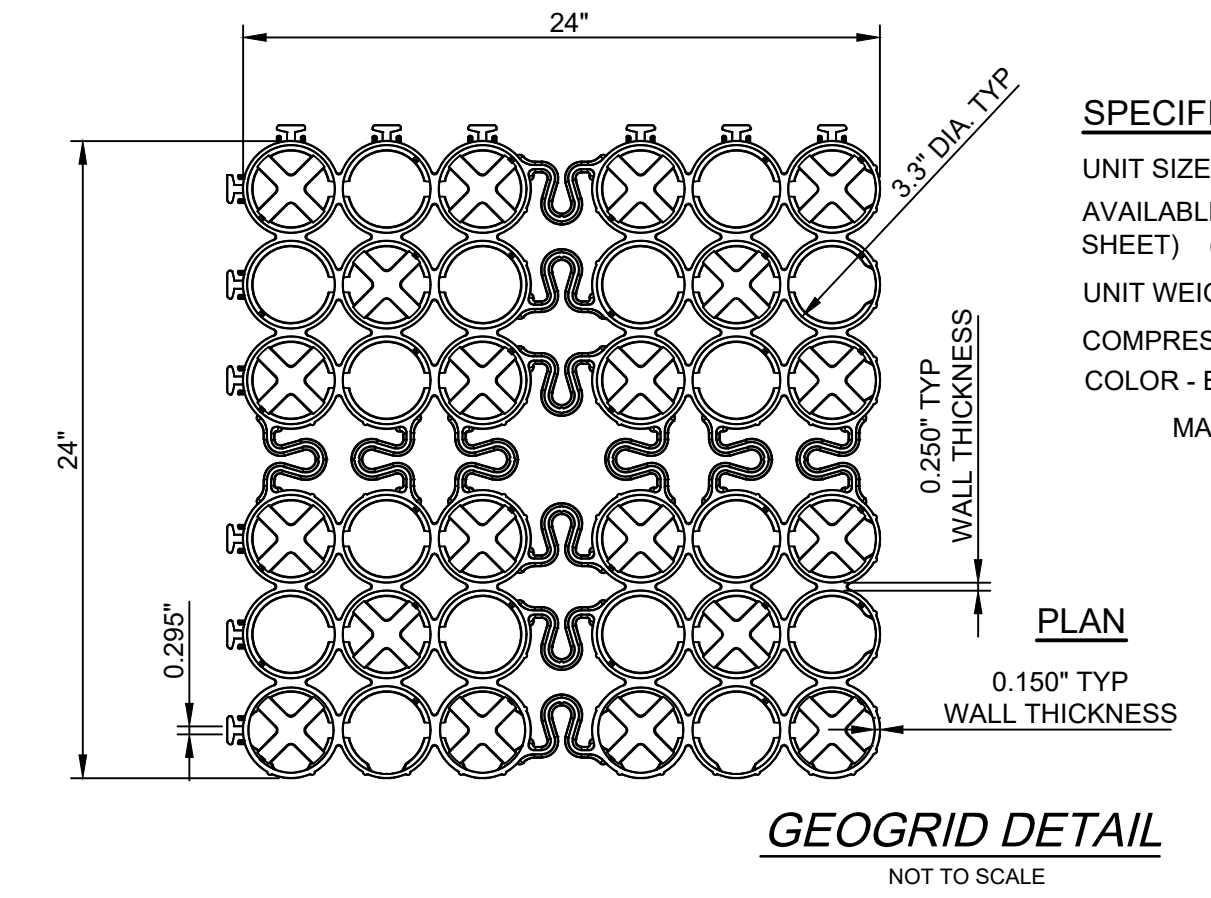
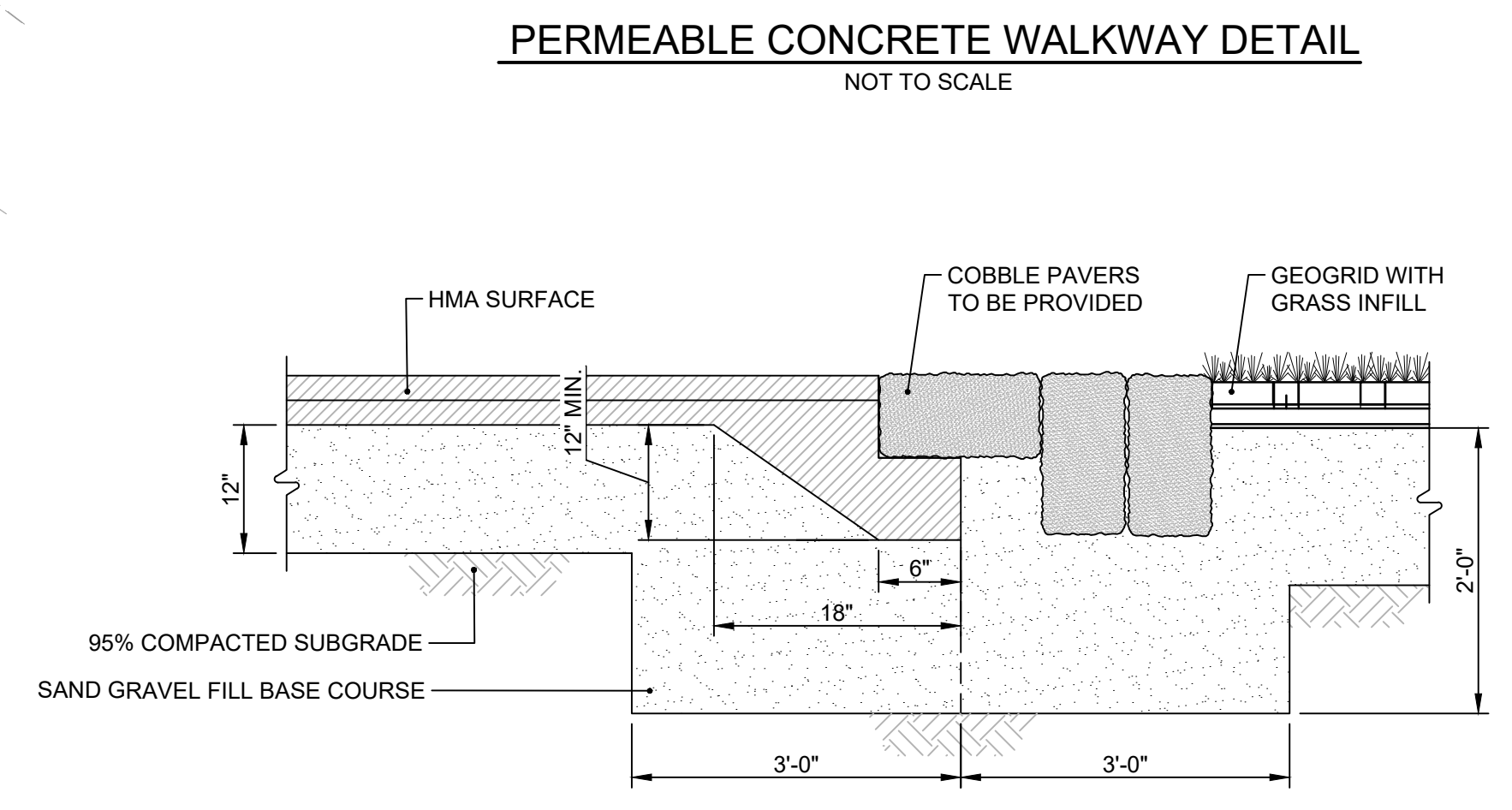
CBR%	1	2	3	4	5
UNREINFORCED STONE THICKNESS, H (IN.)	61	31	20	15	11
REINFORCED STONE THICKNESS, H (IN.)	36"	16	8	8	8

NOTE: SECTION DEVELOPED ASSUMING 1000 PASSES OF HET MILITARY LOADING
* 2 LAYERS OF TYPE 1 GEOGRID, AT SUBGRADE AND MIDDLE OF DRAINAGE BOX

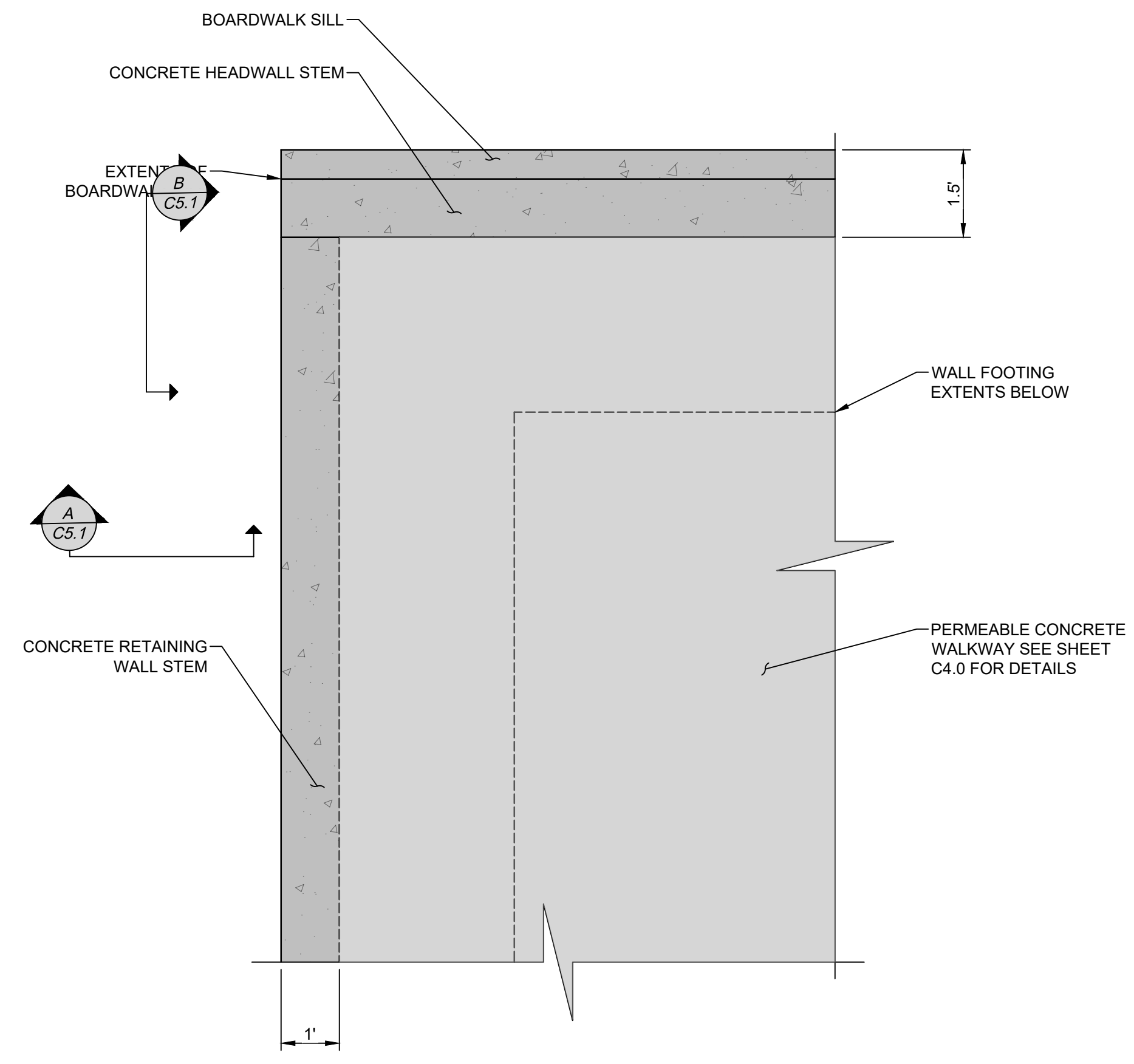


NOTES:

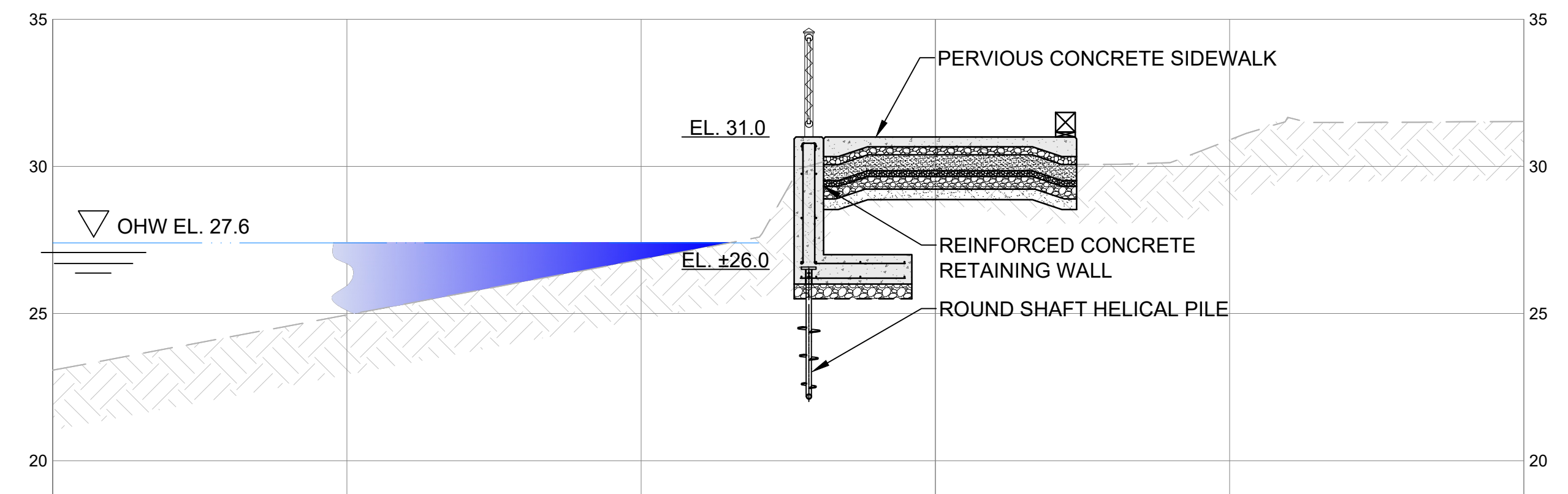
- CONTRACTOR SHALL EXCAVATE FILL DOWN TO NATURAL SOILS. REMOVE ALL FILL SOILS. CONSTRUCT SUBGRADE USING COARSE SAND. REFER TO BORING LOGS FOR ELEVATION OF NATURAL SOILS.



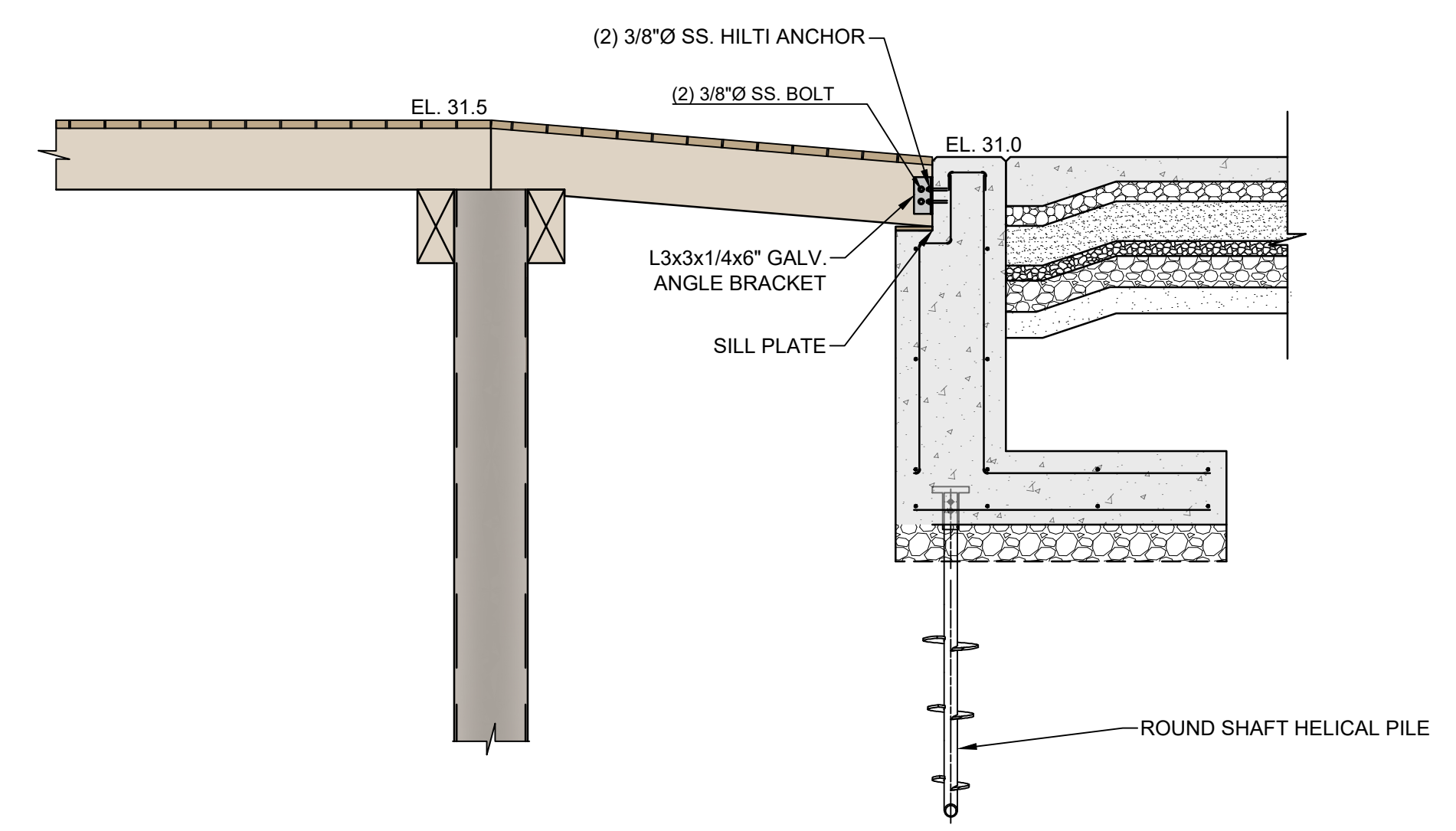
ISSUED FOR BIDDING
NOT FOR CONSTRUCTION



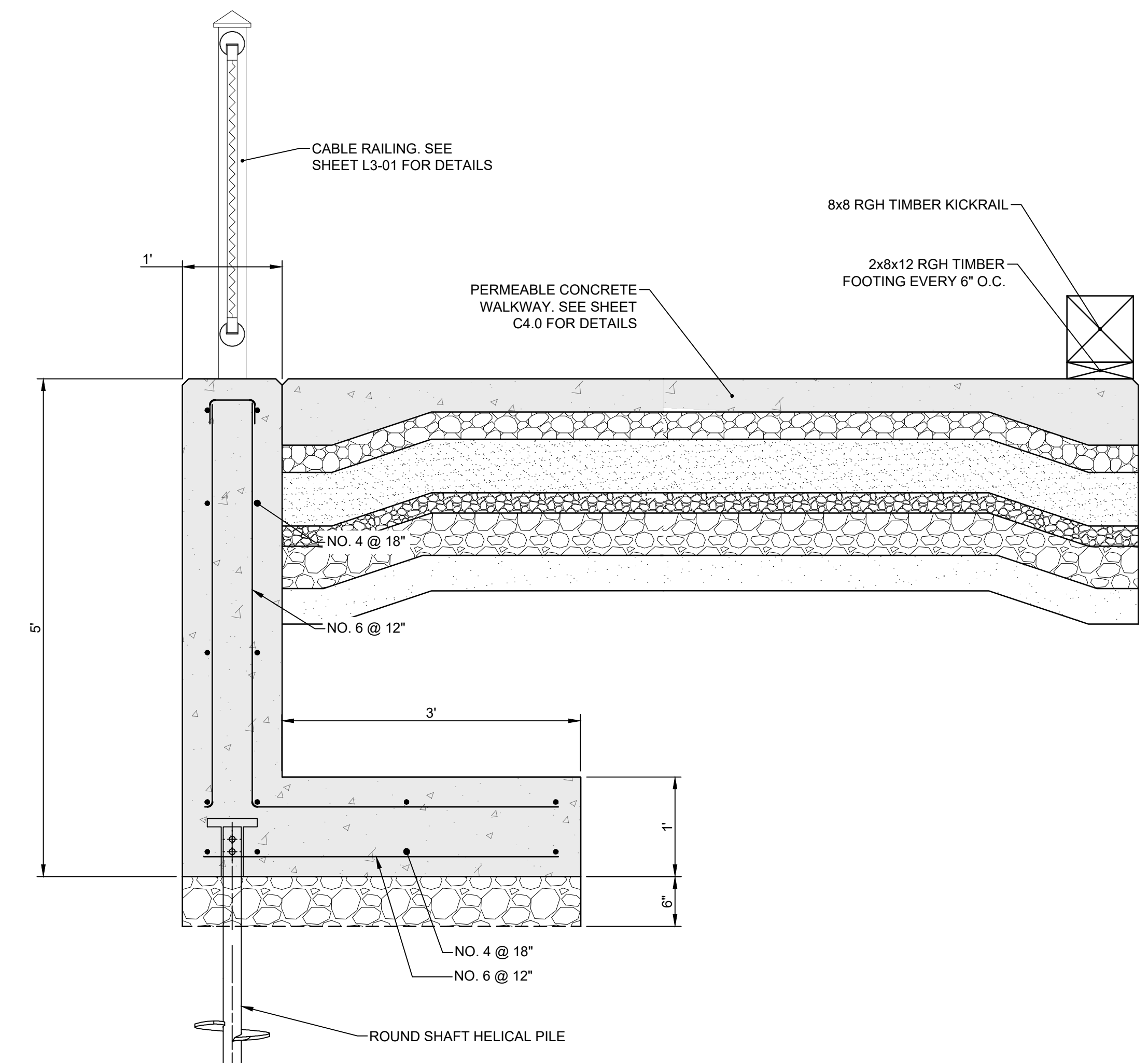
INSET 1 - CONCRETE TRANSITION
SCALE: 1"= 2"



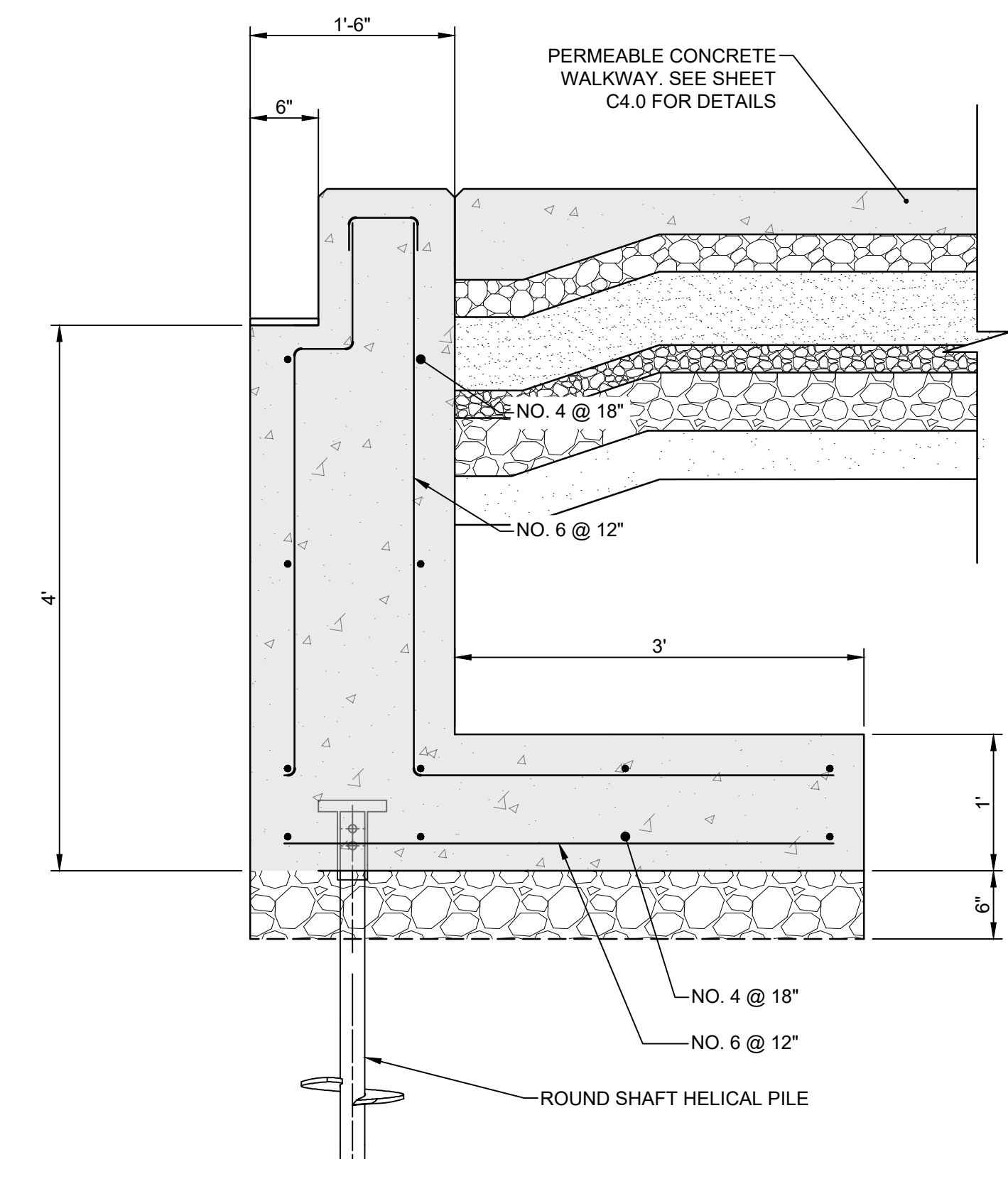
TYPICAL RETAINING WALL SECTION
SCALE: 1/4"= 1"



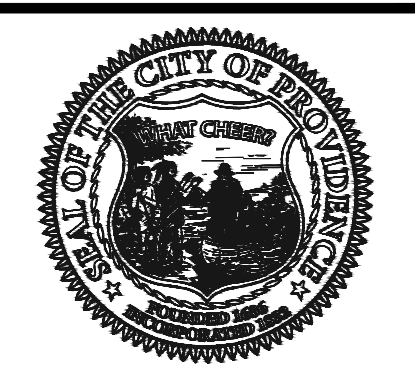
CONCRETE HEADWALL TO BOARDWALK CONNECTION DETAIL
SCALE: 1"= 2"



RETAINING WALL SECTION
SCALE: 1"= 1"



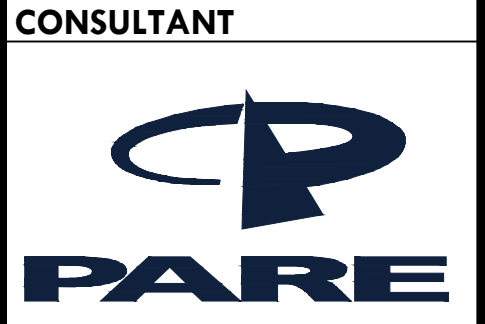
CONCRETE HEADWALL DETAIL
SCALE: 1"= 1"



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1000 Elmwood Avenue
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NORTH ARROW

SCALE

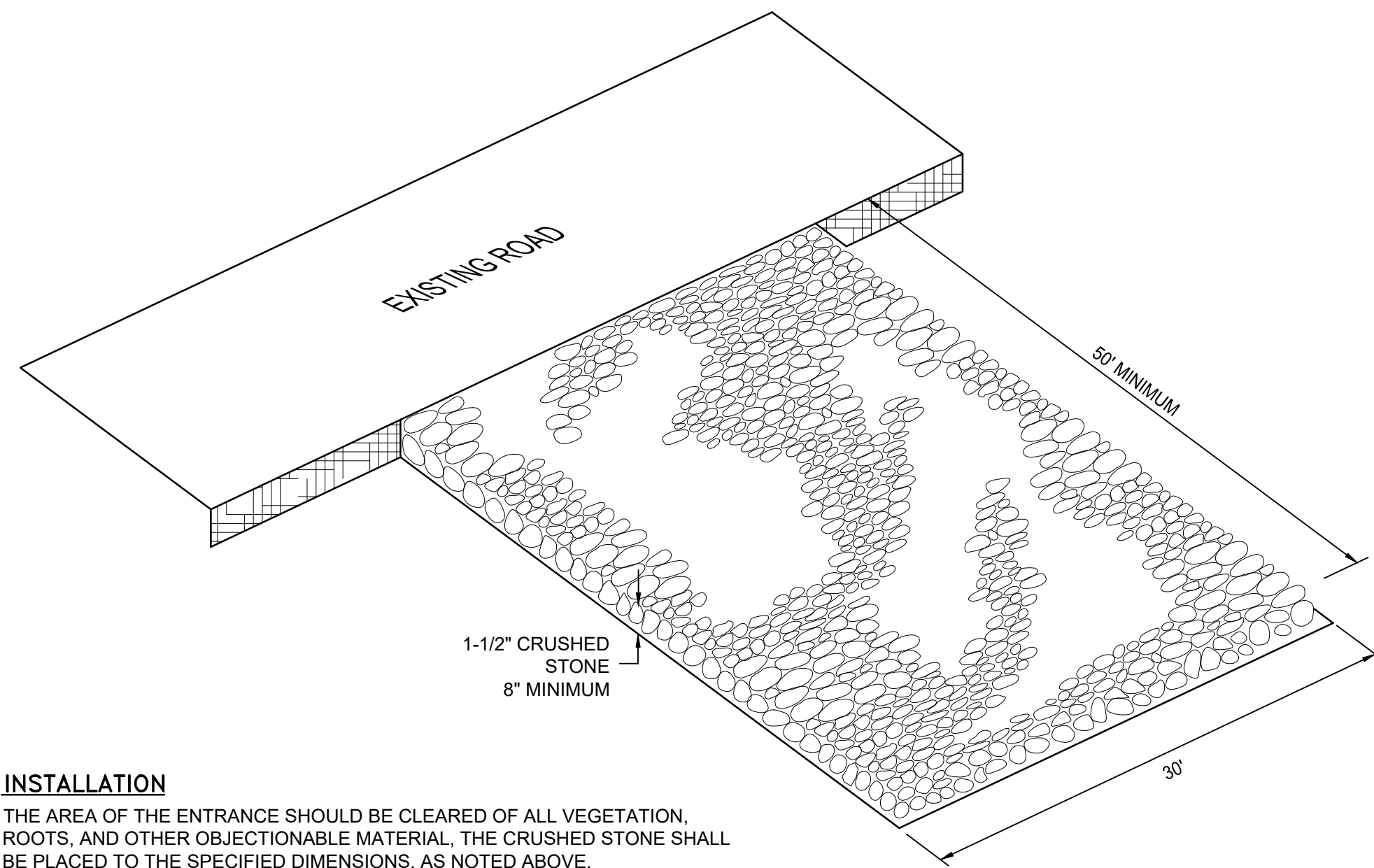
DRAWING INFO
DATE ISSUED: 3/10/2025
PROJECT NO: RWBD.21.01
DRAWN BY: KAD
CHECKED BY: TDT

SHEET TITLE
RETAINING WALL DETAILS

C4.1

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INSTALLATION

THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL, THE CRUSHED STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

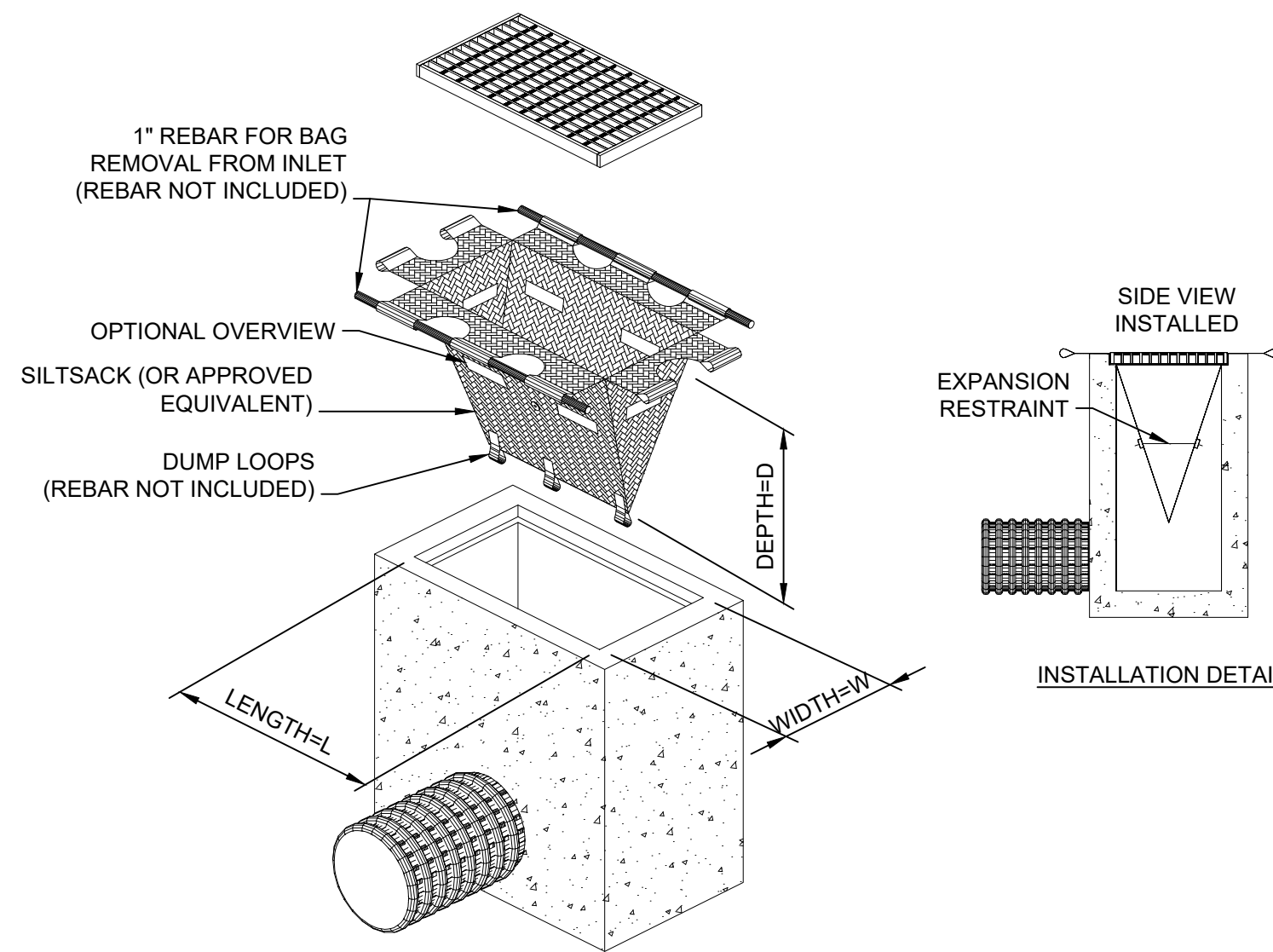
MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT-OF-WAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

LOCATION

SEE PROJECT PLANS FOR LOCATION OF CONSTRUCTION ENTRANCE.

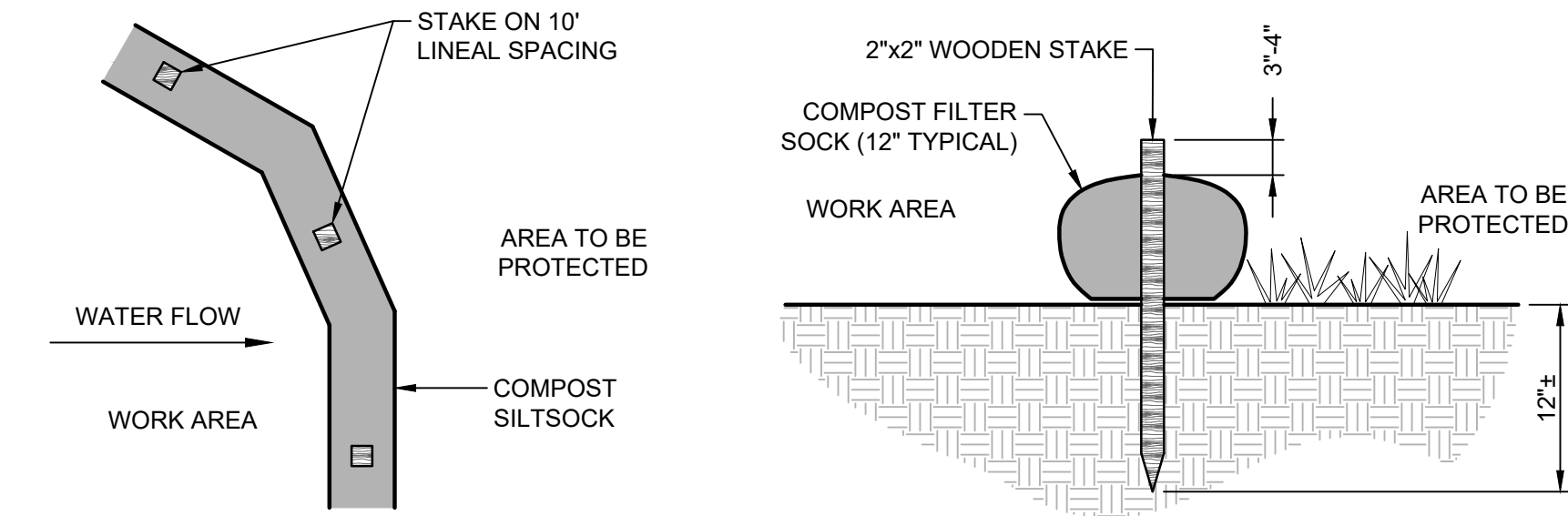
CONSTRUCTION ENTRANCE PROTECTION STONE STABILIZATION PAD
NOT TO SCALE



NOTES:

1. INLET PROTECTION SHALL BE CLEANED OF SILT AND DEBRIS ON A REGULAR BASIS AS REQUIRED BY PROJECT SPECIFIC SESC.
2. INSPECTIONS SHALL BE DONE AFTER EACH RAIN EVENT AND AT A MINIMUM EVERY TWO WEEKS AND AS REQUIRED BY PROJECT SPECIFIC SESC.

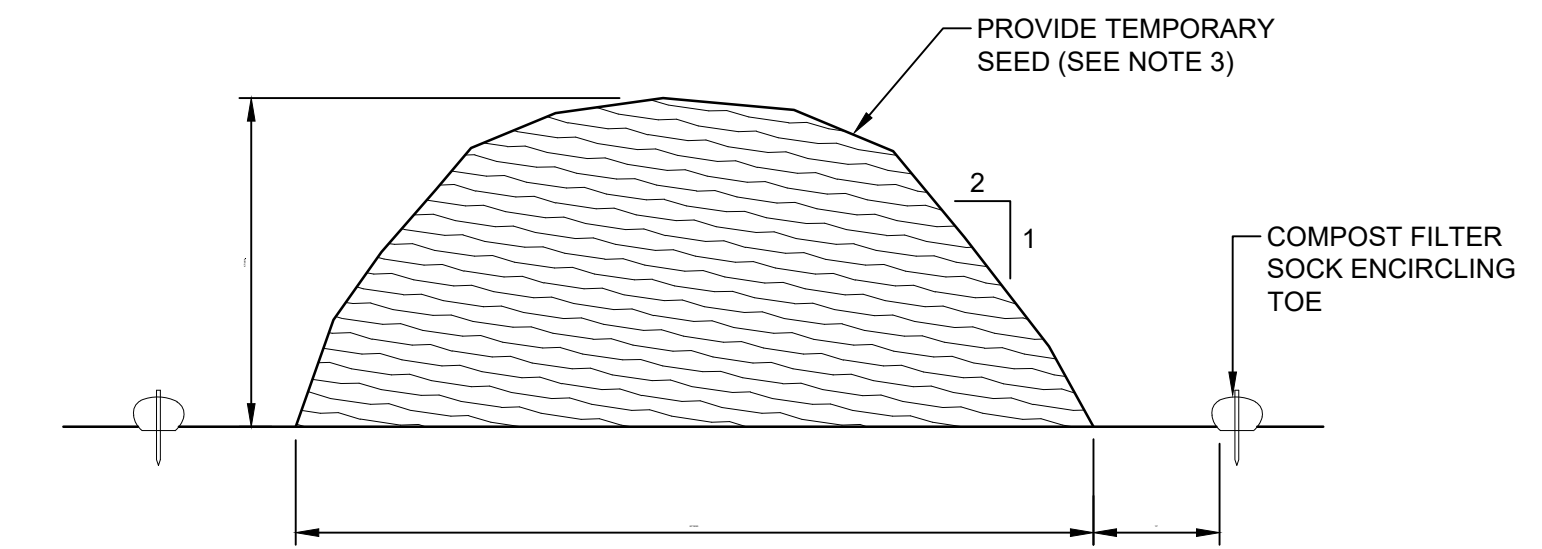
TEMPORARY INLET PROTECTION
NOT TO SCALE



NOTES:

1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

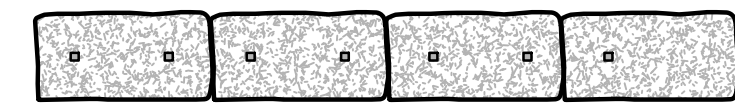
COMPOST FILTER SOCK DETAIL
NOT TO SCALE



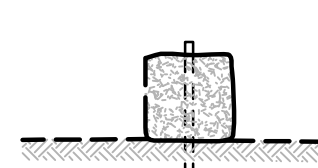
NOTES:

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT.

ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE

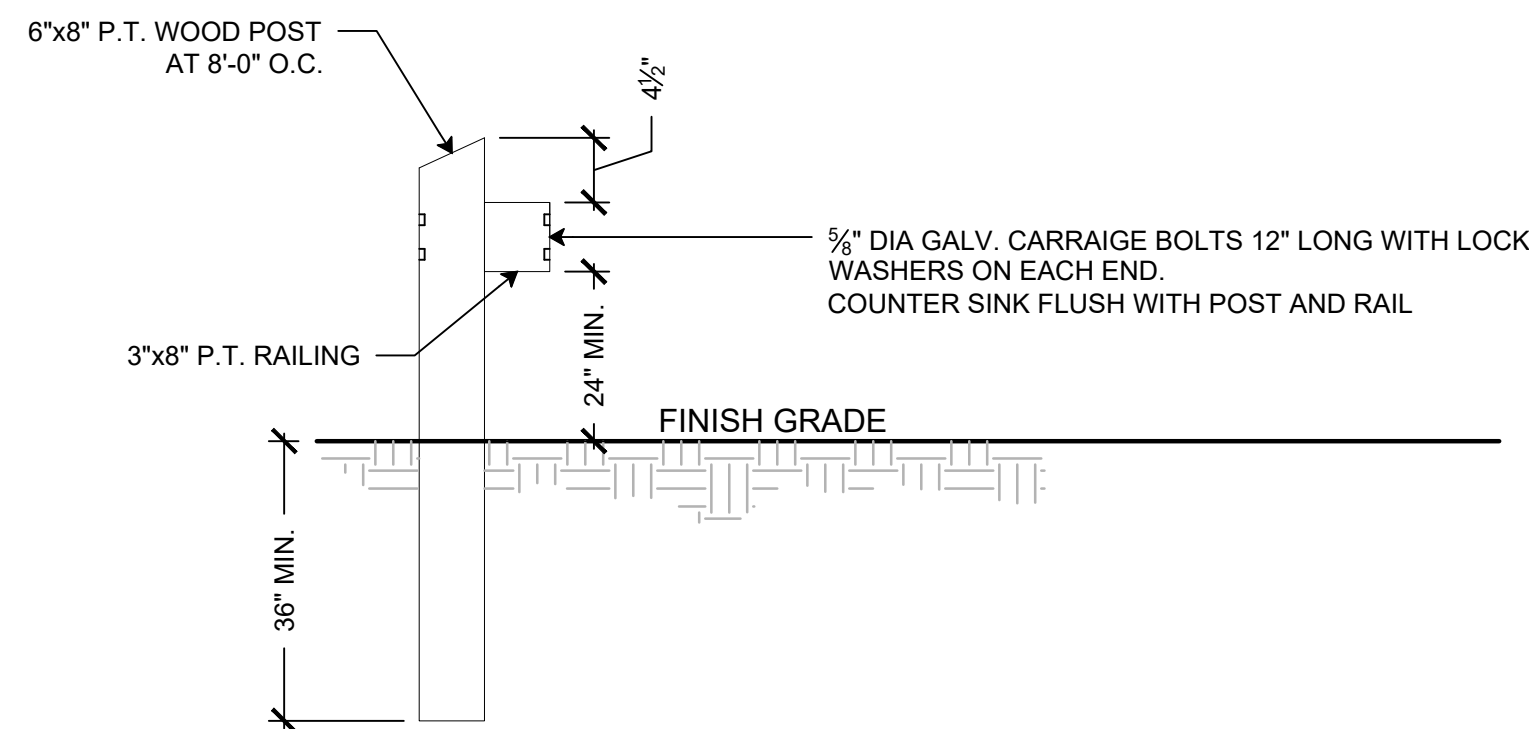


PLAN



ELEVATION

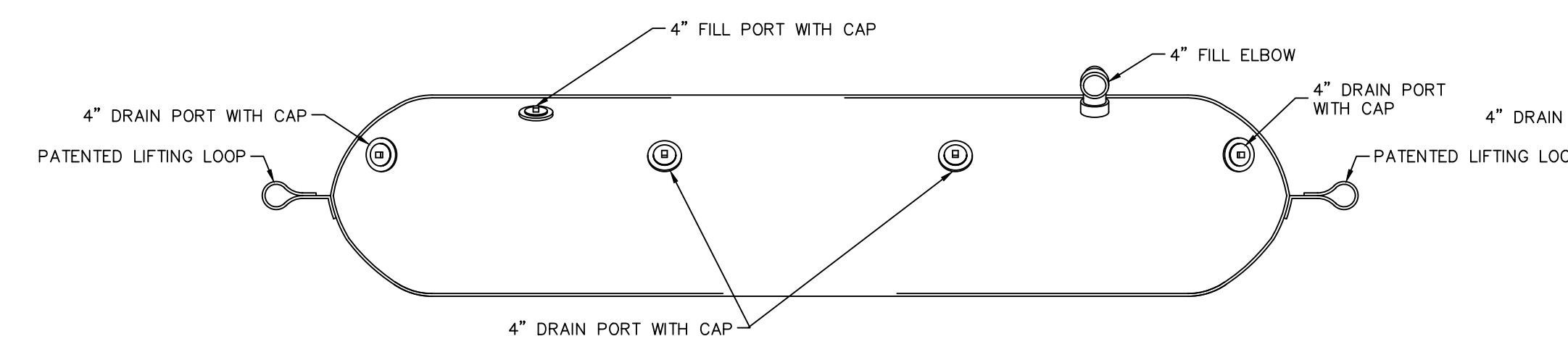
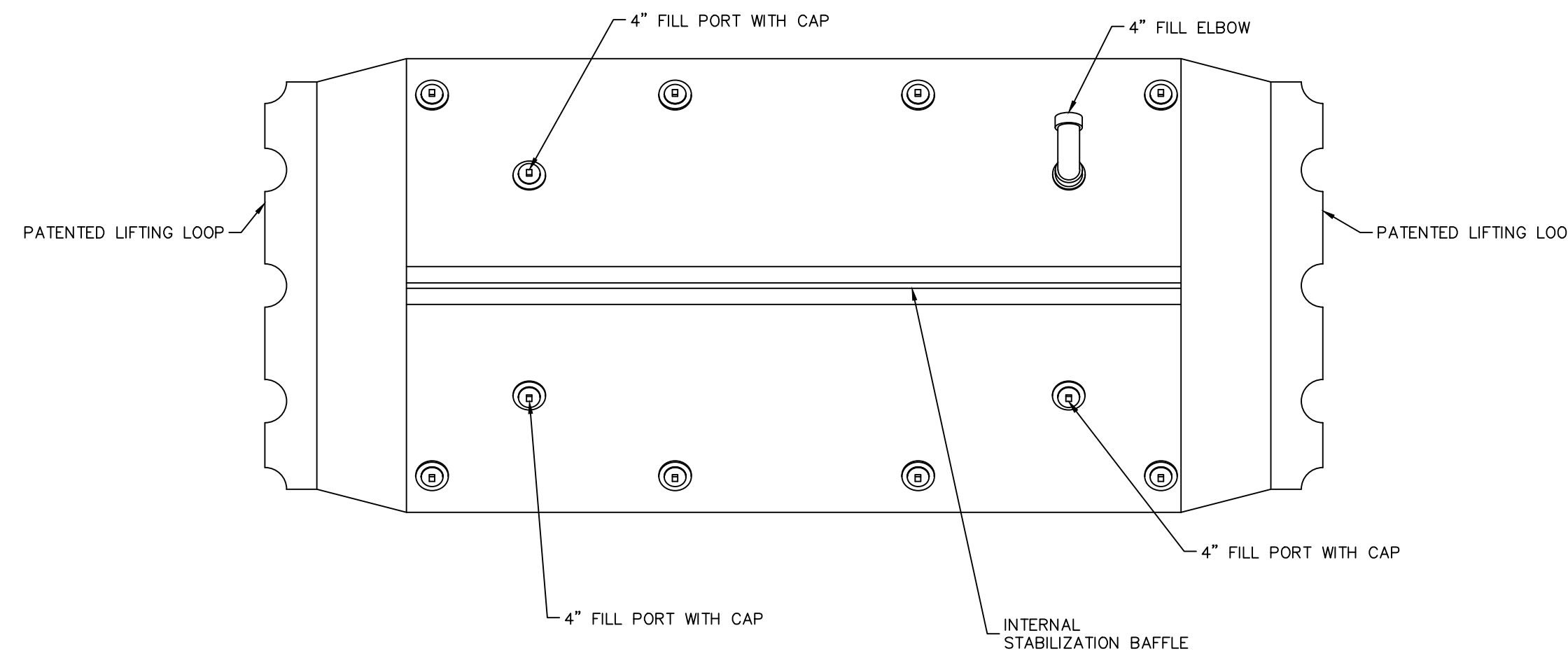
STRAW BALE DETAIL
NOT TO SCALE



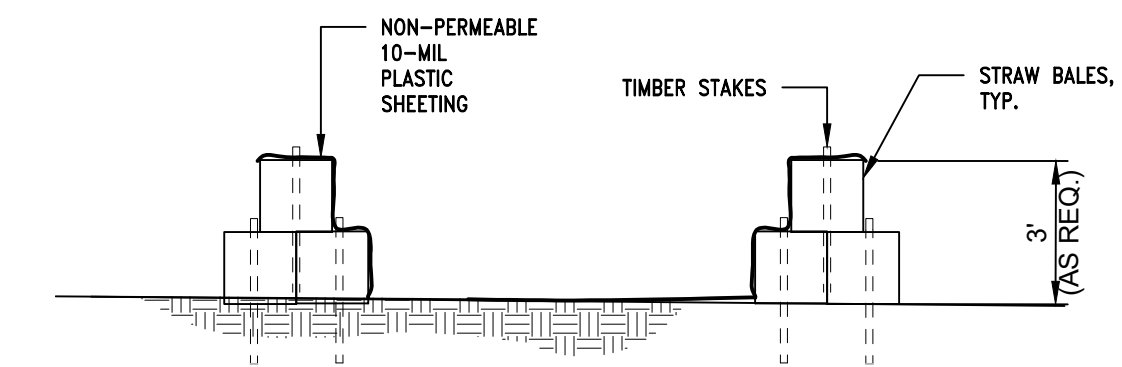
NOTES:

1. ALL WOOD SHALL BE SELECT STRUCTURAL GRADE SOUTHERN YELLOW PINE OR DOUGLAS FIR
2. ALL WOOD SHALL BE FULL CELL PROCESS PRESSURE TREATED.
3. SPACE POSTS AT 8'-0" O.C. MAX.
4. ALL NUTS, BOLTS, AND WASHERS TO BE GALVANIZED.
5. ALL POSTS SHALL BE INSTALLED PLUMB
6. ALL RAILS SHALL FOLLOW CURB ELEVATION

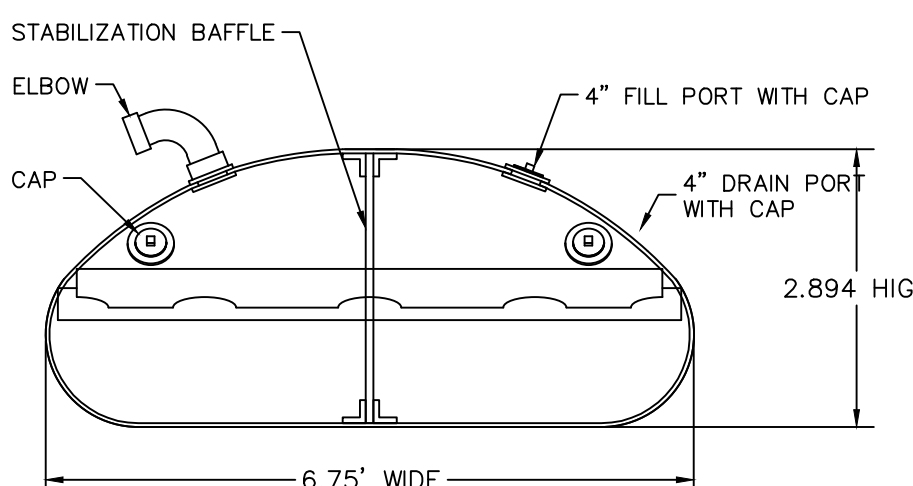
TIMBER GUARD RAIL
NOT TO SCALE



AQUA-BARRIER COFFERDAM DETAILS
SCALE: 1" = 2'



CONCRETE WASHOUT
NOT TO SCALE



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NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 3/10/2025
PROJECT NO: RWBD.21.01
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SHEET TITLE

MISCELLANEOUS DETAILS

C5.0

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SCALE

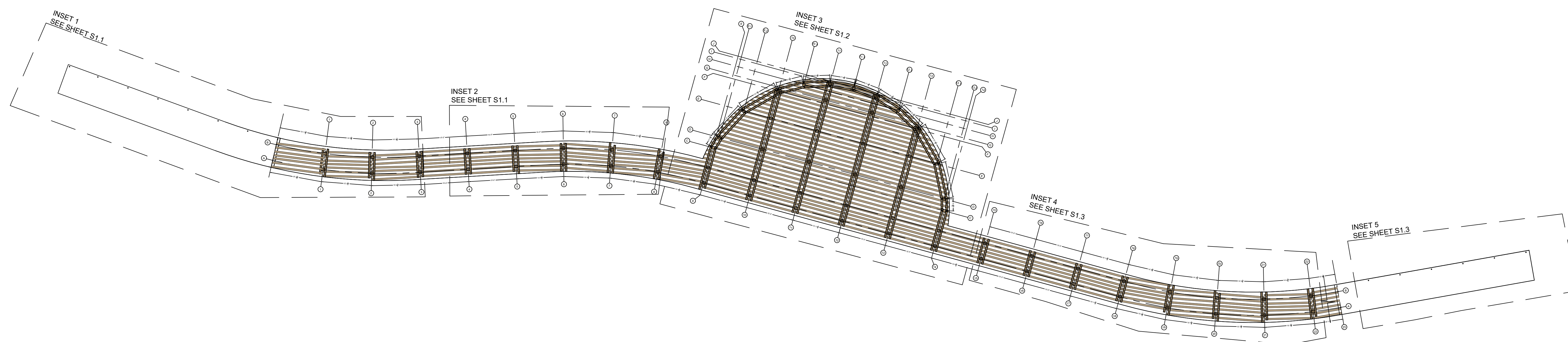
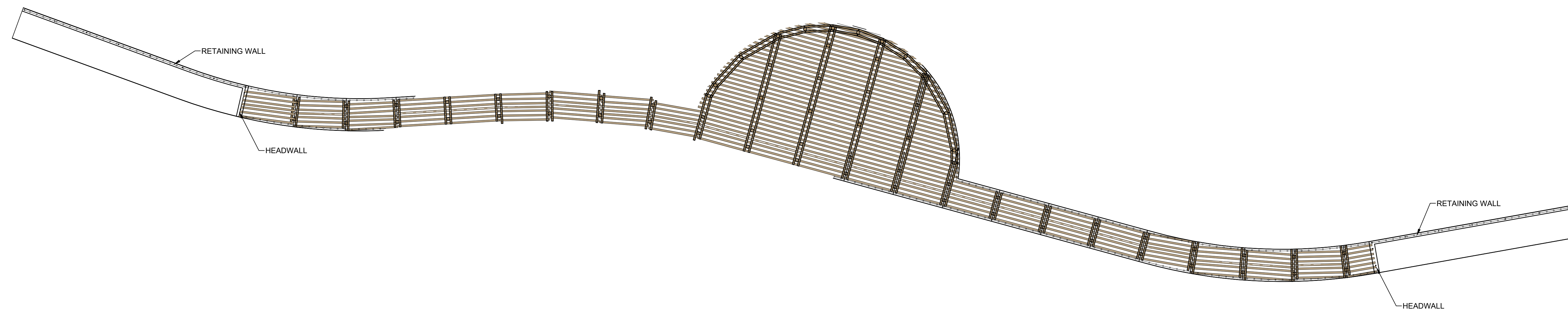
DRAWING INFO

DATE ISSUED: 3/10/2025
PROJECT NO: RWBD.21.01
DRAWN BY: KAD
CHECKED BY: TDT

SHEET TITLE

**OVERALL
STRUCTURAL
FRAMING PLAN
S1.0**

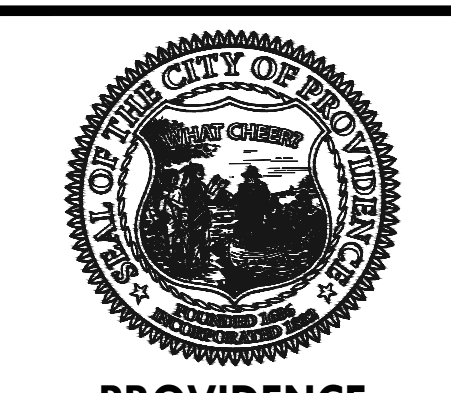
11 OF 22



OVERALL STRUCTURAL FRAMING PLAN

SCALE: 1/8" = 1'

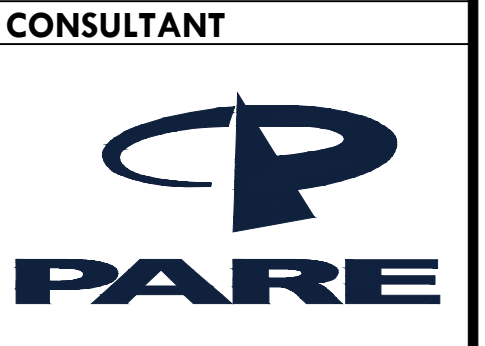
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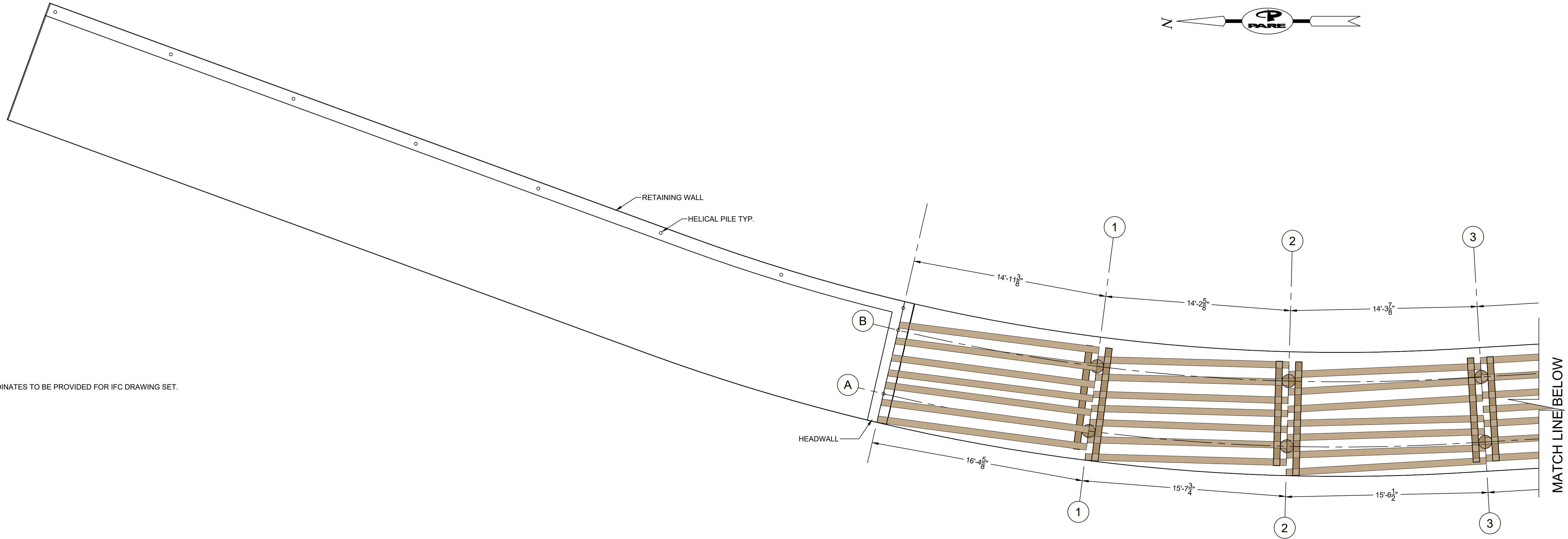
SCALE

DRAWING INFO
DATE ISSUED: 3/10/2025
PROJECT NO: RWBD.21.01
DRAWN BY: KAD
CHECKED BY: TDT

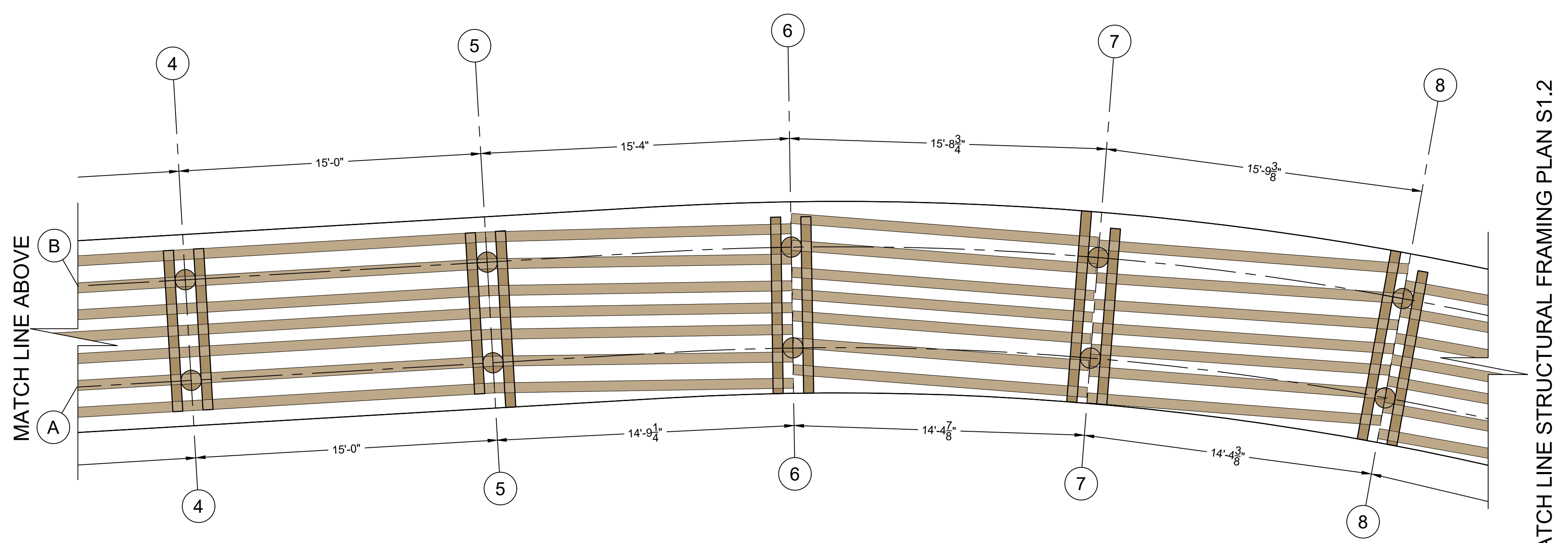
SHEET TITLE
STRUCTURAL FRAMING PLAN I

S1.1

12 OF 22



PROPOSED FRAMING PLAN - INSET 1
SCALE: 1/4" = 1'



PROPOSED FRAMING PLAN - INSET 2
SCALE: 1/4" = 1'

NOTES:
1. PILE COORDINATES TO BE PROVIDED FOR IFC DRAWING SET.

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NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 3/10/2025
 PROJECT NO: RWBD.21.01
 DRAWN BY: KAD
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SHEET TITLE

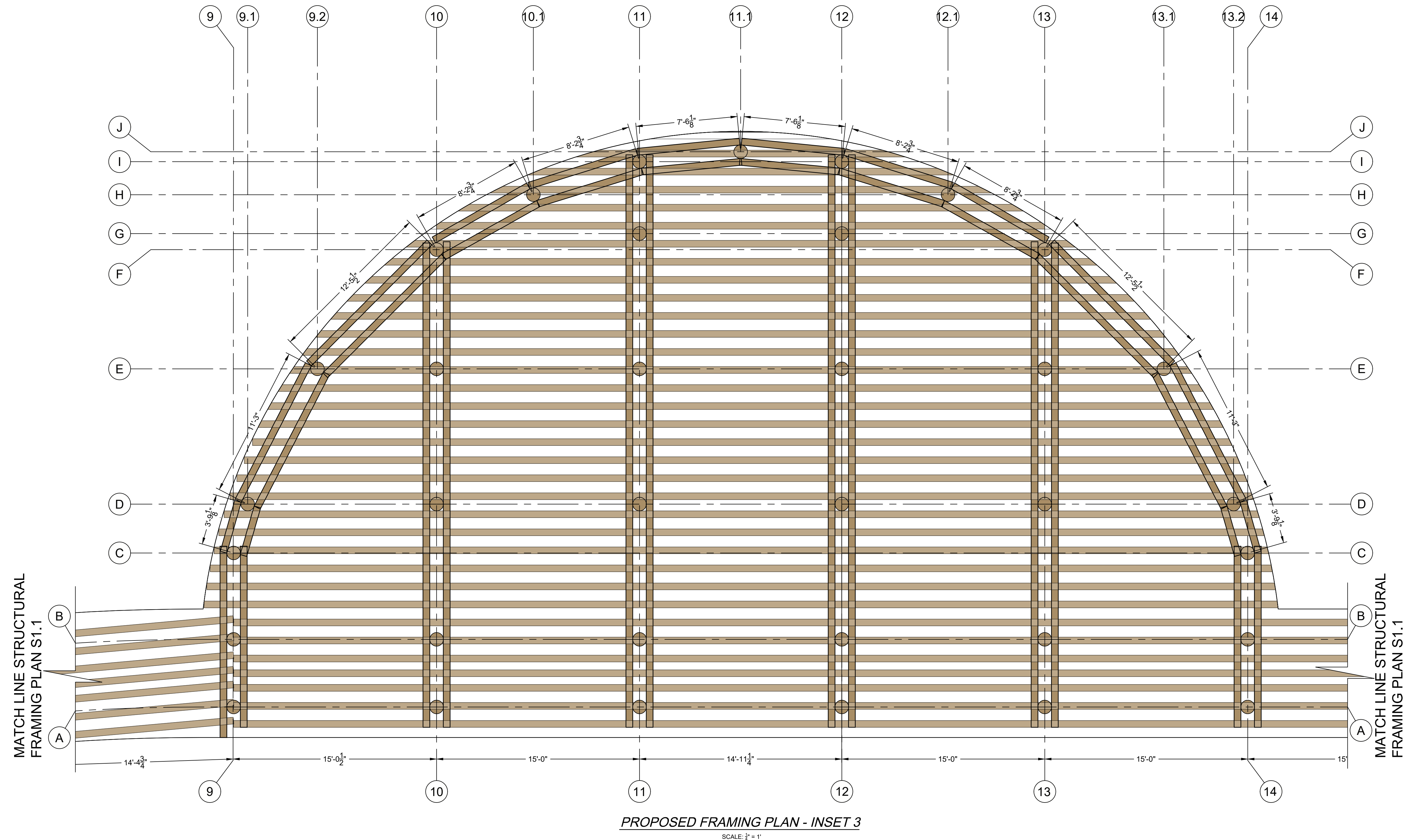
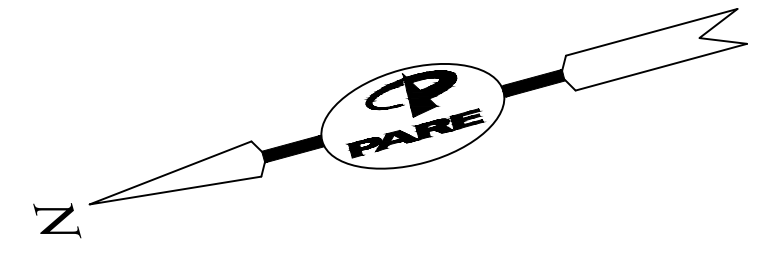
STRUCTURAL FRAMING PLAN II

S1.2

13 OF 22

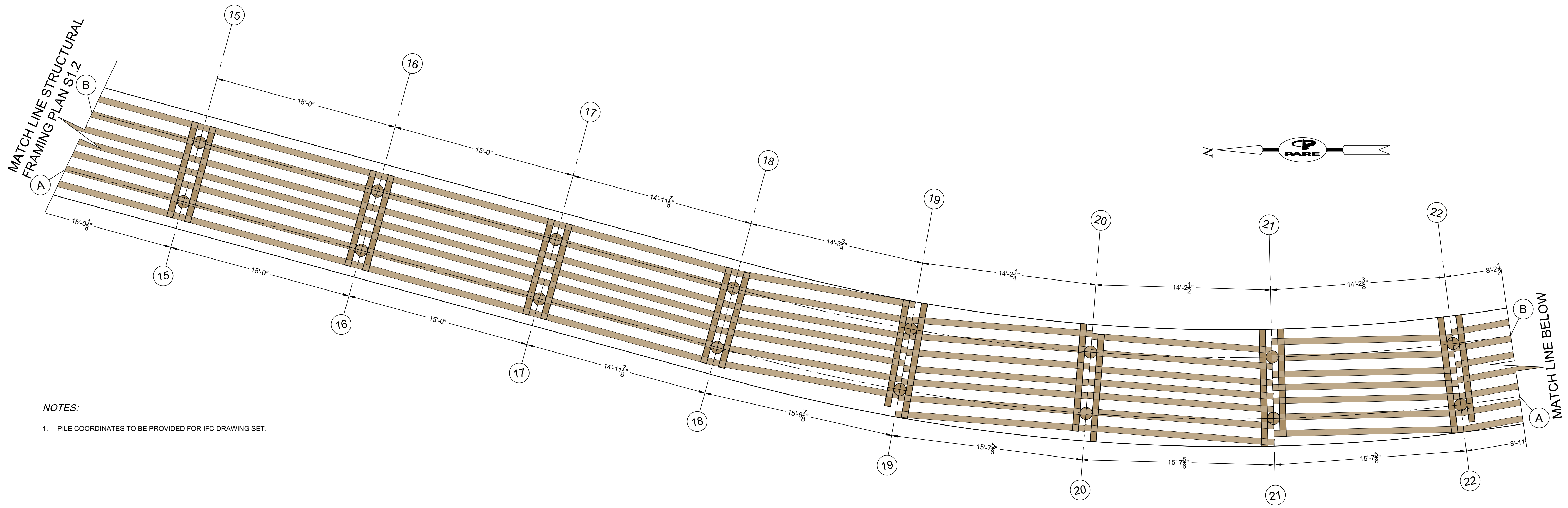
NOTES:

1. PILE COORDINATES TO BE PROVIDED FOR IFC DRAWING SET.



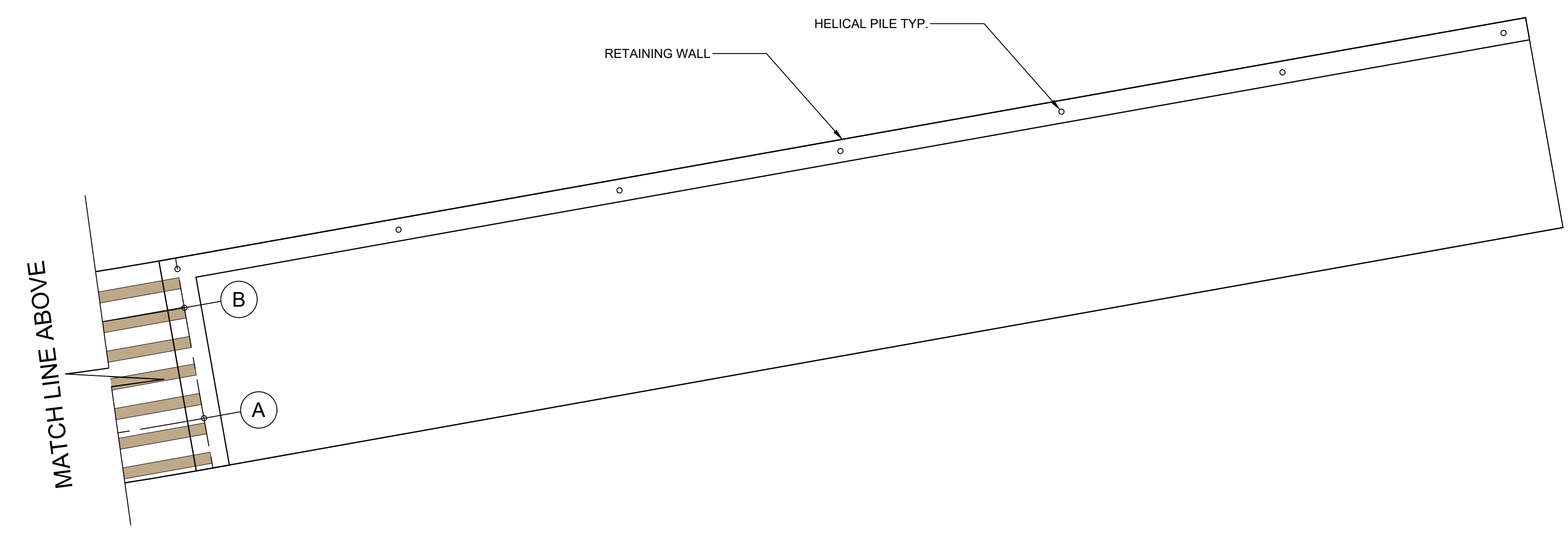
PROPOSED FRAMING PLAN - INSET 3
 SCALE: 1/4" = 1'

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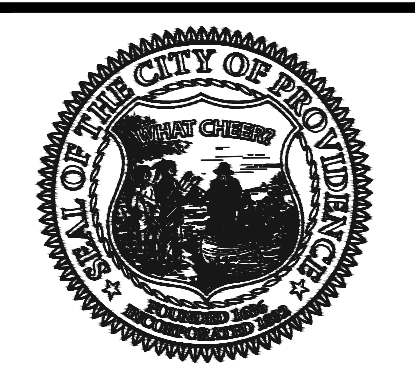


NOTES:
 1. PILE COORDINATES TO BE PROVIDED FOR IFC DRAWING SET.

PROPOSED FRAMING PLAN - INSET 4
 SCALE: 1/4" = 1'



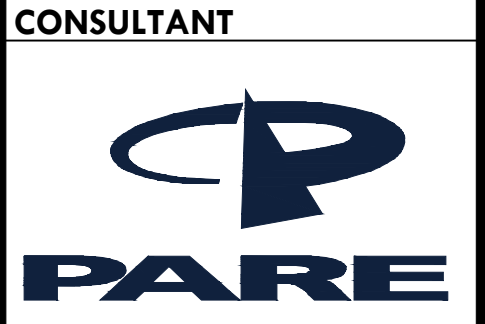
PROPOSED FRAMING PLAN - INSET 5
 SCALE: 1/4" = 1'



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NORTH ARROW

SCALE

DRAWING INFO
 DATE ISSUED: 3/10/2025
 PROJECT NO: RWBD.21.01
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SHEET TITLE
 STRUCTURAL FRAMING PLAN III

S1.3

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NORTH ARROW

SCALE

DRAWING INFO

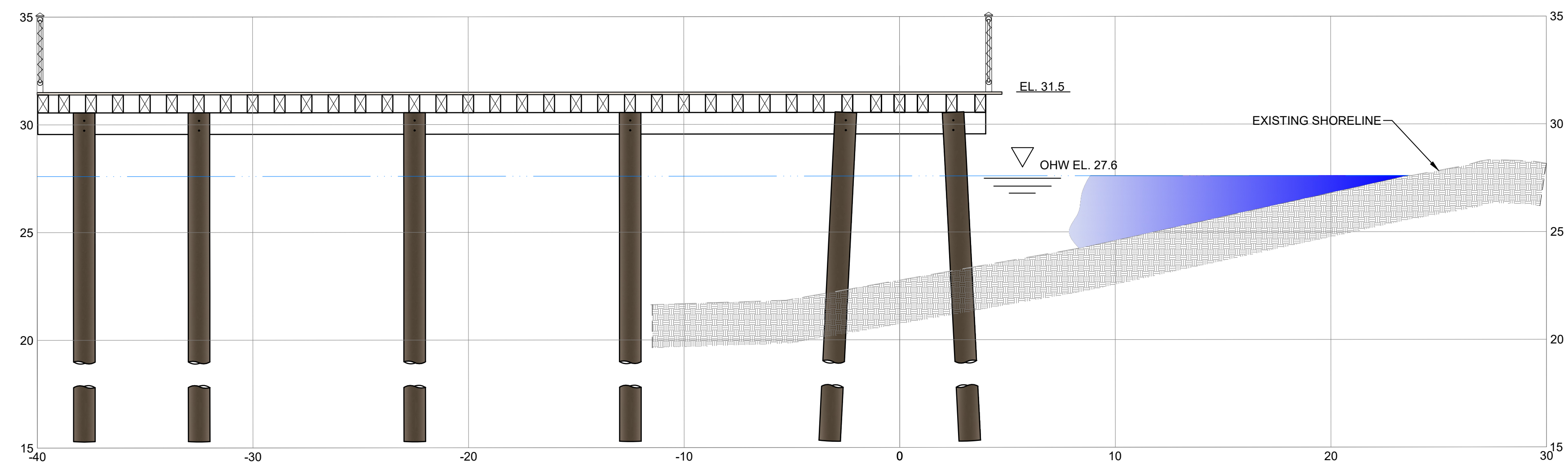
DATE ISSUED: 3/10/2025
PROJECT NO: RWBD.21.01
DRAWN BY: KAD
CHECKED BY: TDT

SHEET TITLE

STRUCTURAL DETAILS

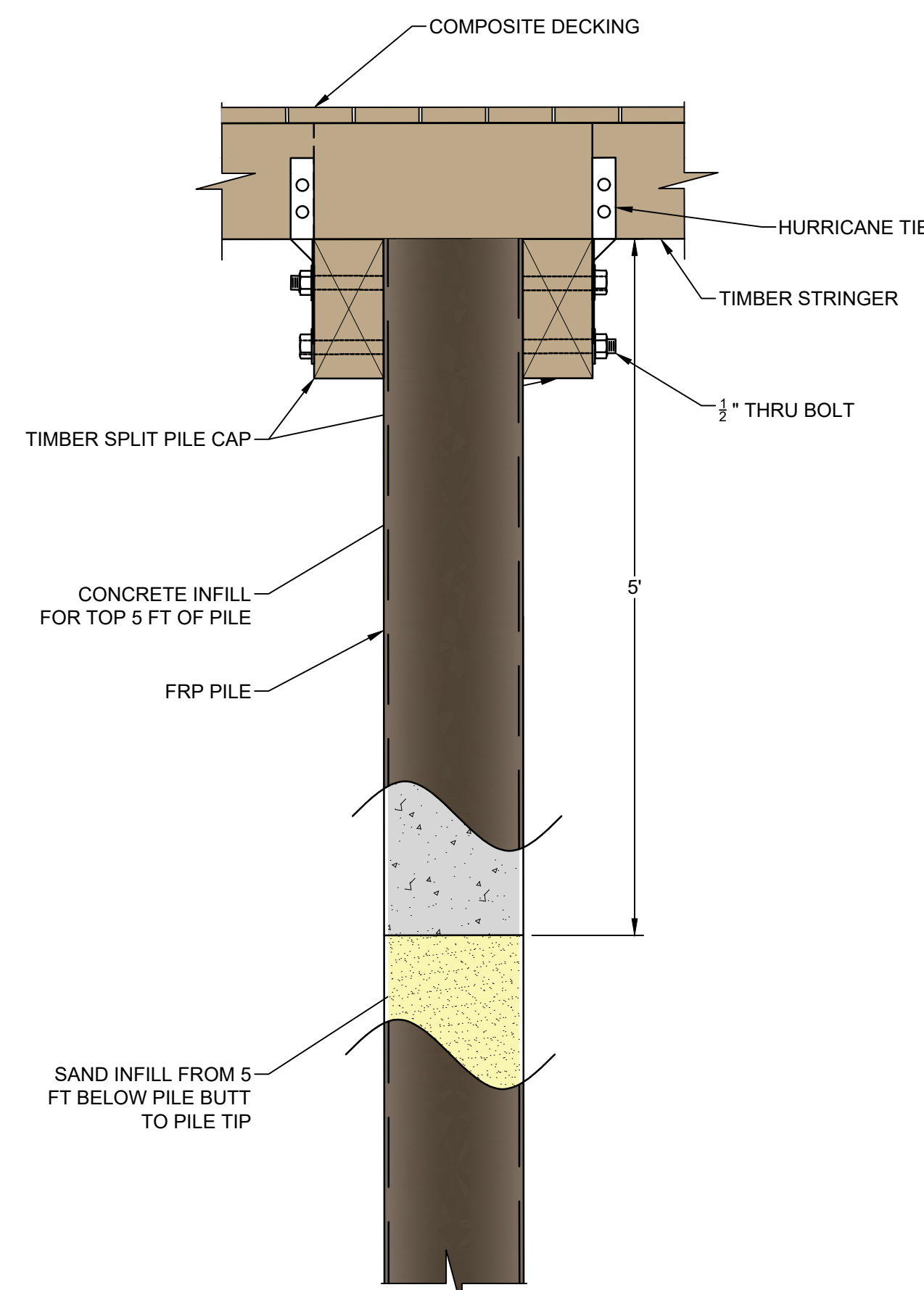
S2.0

15 OF 22



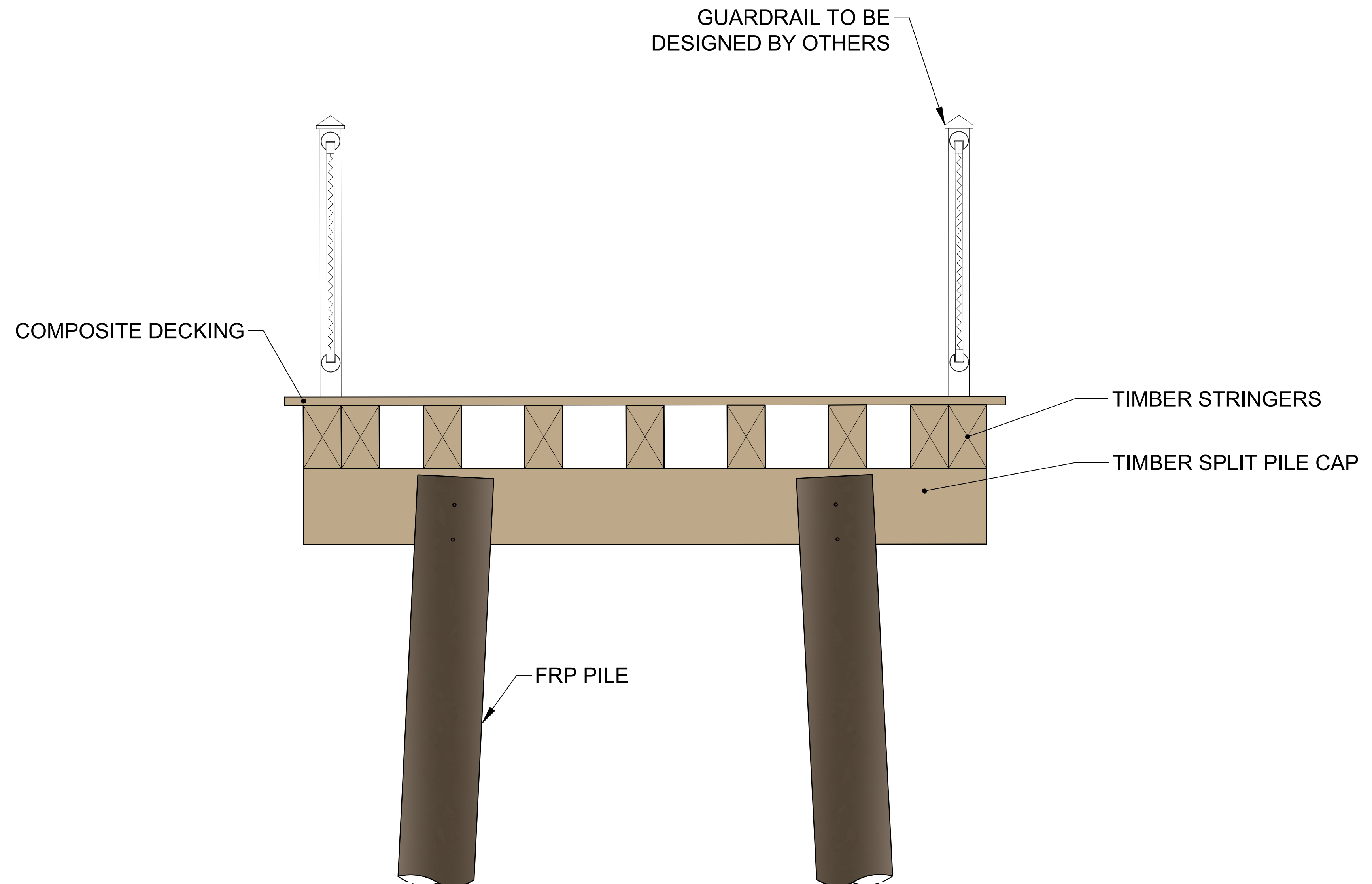
FISHING OVERLOOK SECTION

SCALE: 1" = 4'



CONCRETE FILL TO PILE CAP CONNECTION

SCALE 1" = 1'



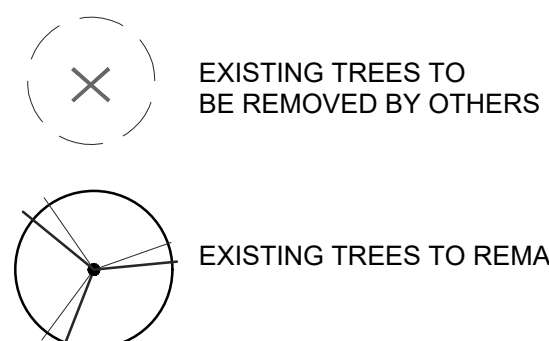
TYPICAL BOARDWALK SECTION

SCALE 1" = 1'

ISSUED FOR BIDDING
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REFERENCE NOTES SCHEDULE

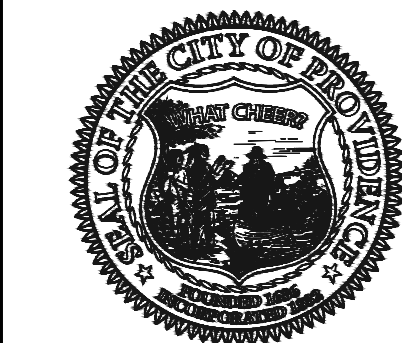
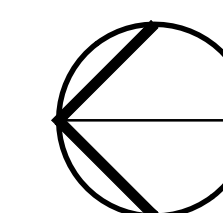
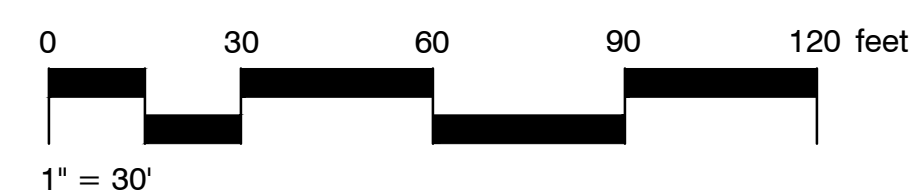
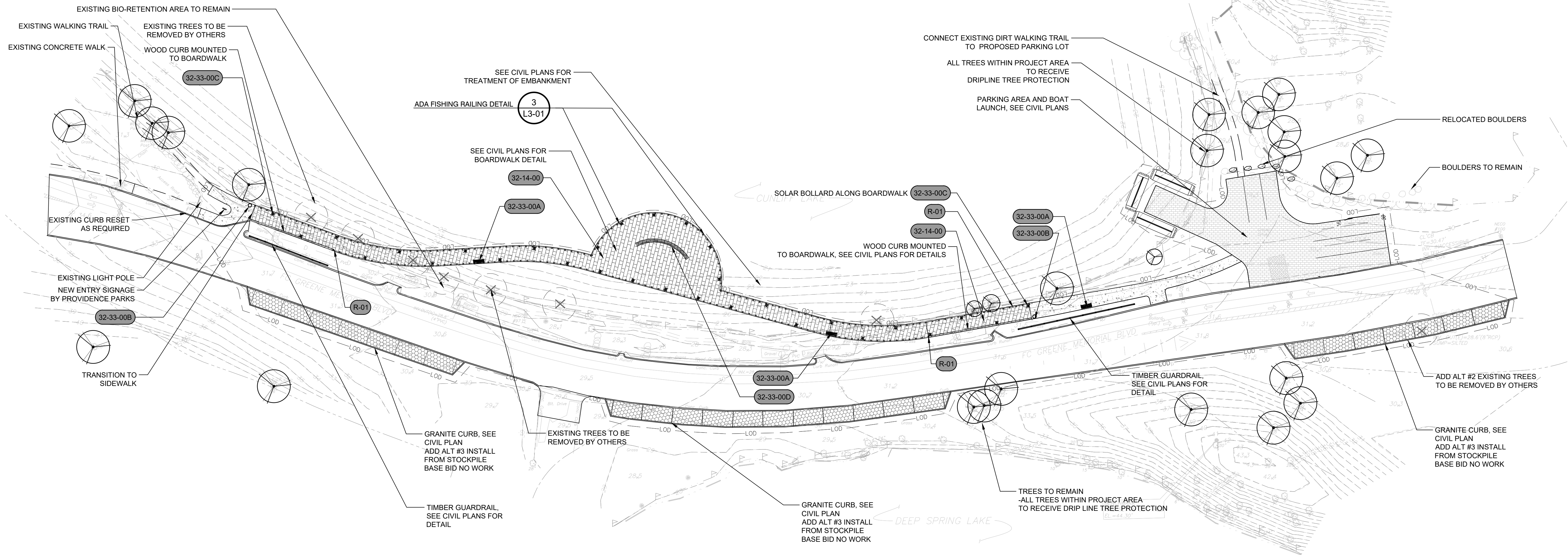
SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
		Wood Boardwalk		See Civil Plans for details
AGGREGATE SURFACE				
		Porous Concrete Pavement		See Civil Plans for details
		Geogrid Reinforced Parking		See Civil Plans for details
FENCES AND GATES				
		Timber Guardrail		See Civil Plans for details
SITE FURNISHINGS				
	32-33-00A	Bench	3	1/L3-02
	32-33-00B	Trash Receptacle	2	2/L3-02
	32-33-00C	Solar Light Bollard	30	4/L3-02
	32-33-00D	Curved Bench	1	3/L3-02
RAIL				
	R-01	Cable Railing	862 lf	2/L3-01



LANDSCAPE ADD ALTERNATES

ADD ALT#1 - F&I PARKING LOT ARTICULATED BLOCKS (SOUTHERN SECTION)
 ADD ALT#2 - F&I GEOGRID REINFORCED PARKING WITH GRANITE COBBLE EDGE (SOUTHERN SECTION)
 ADD ALT#3 - F&I GEOGRID REINFORCED PARKING WITH GRANITE COBBLE EDGE (MIDDLE AND NORTHERN SECTIONS)
 ADD ALT#4 - F&I SOLAR INTEGRATED LIGHT BOLLARDS
 ADD ALT#5 - F&I SOLID CURVED BENCH WITH BACK REST (SURFACE MOUNT)
 ADD ALT#6 - F&I 6' BENCH (MOUNT VARIES)
 ADD ALT#7 - F&I 55 GALLON TRASH RECEPTACLE WITH DOME LID

- NOTES:
- SEE CIVIL PLANS FOR BOARDWALK MATERIALS, LAYOUT AND DETAILS, ALL GEOGRID W/ GRASS INFILL PARKING SPACES DETAILS, TIMBER GUARDRAIL DETAILS, BOAT LAUNCH DETAILS AND POROUS CONCRETE PAVEMENT DETAILS
 - IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL QUANTITIES.



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NORTH ARROW

AS SHOWN ON PLAN

SCALE

AS SHOWN ON PLAN

DRAWING INFO

DATE ISSUED: 03/10/2025
 PROJECT NO: PO1015
 DRAWN BY: HW EL
 CHECKED BY: AIC

SHEET TITLE

HARDSCAPE PLAN

L1-21

15 OF 22



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NORTH ARROW

**AS SHOWN
ON PLAN**

SCALE

**AS SHOWN
ON PLAN**

DRAWING INFO

DATE ISSUED: 03/10/2025
PROJECT NO: PO1015
DRAWN BY: HW EL
CHECKED BY: AIC

SHEET TITLE

**LAYOUT
PLAN**

L1-31

16 OF 22

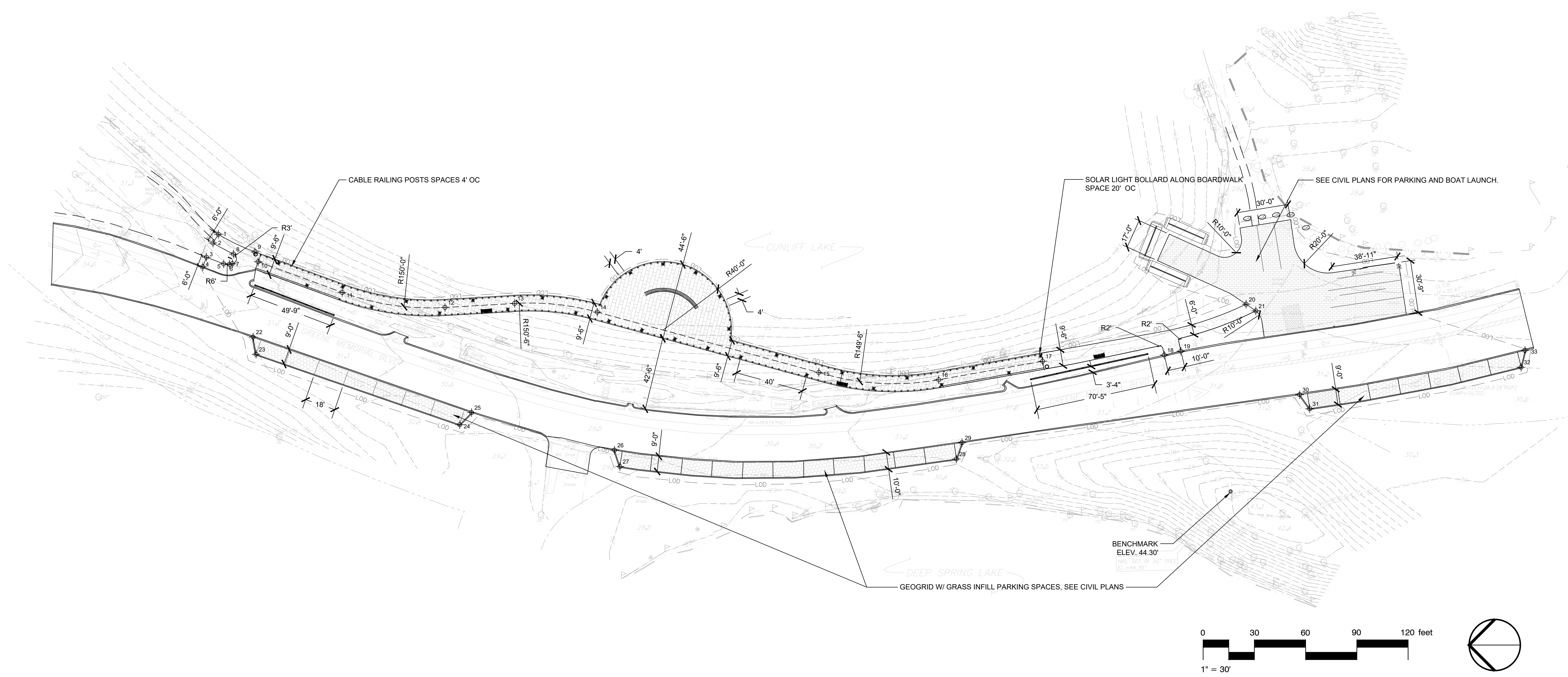
NORTHING/EASTING POINT SCHEDULE

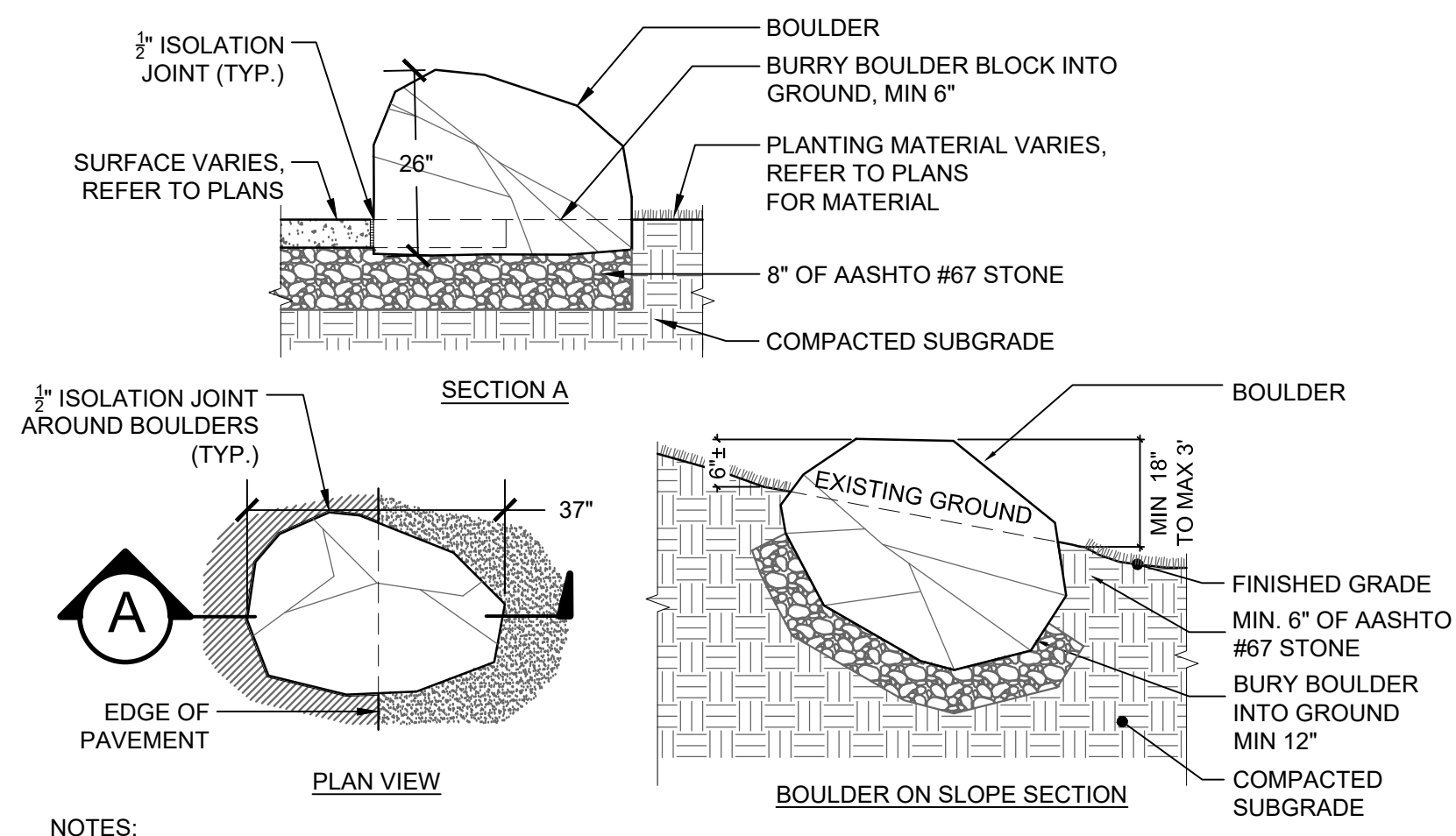
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2		N 253433.9494	E 351494.0743
3		N 253437.8074	E 351485.7833
4		N 253439.9770	E 351480.1894
5		N 253427.7439	E 351481.8802
6		N 253424.3242	E 351481.6058
7		N 253422.6194	E 351481.9690
8		N 253421.9661	E 351487.6171
9		N 253409.4207	E 351488.8797
10		N 253407.5499	E 351483.1403
11		N 253358.3669	E 351465.1883
12		N 253298.1756	E 351456.3513
13		N 253257.4408	E 351458.7341
14		N 253209.0322	E 351453.6823
15		N 253079.3429	E 351418.3811
16		N 253009.1859	E 351414.0839
17		N 252948.3006	E 351424.9278
18		N 252877.0998	E 351428.5406
19		N 252867.3563	E 351430.7911
20		N 252829.2380	E 351458.2684
21		N 252823.5460	E 351454.3690
22		N 253410.4936	E 351439.0860
23		N 253408.7944	E 351428.9764
24		N 253289.5466	E 351387.7635
25		N 253282.5718	E 351394.8753
26		N 253198.9489	E 351372.8934
27		N 253195.8121	E 351363.2974
28		N 252998.8179	E 351367.7223
29		N 252995.5324	E 351377.2710
30		N 252797.8668	E 351405.3491
31		N 252792.0053	E 351397.1293
32		N 252668.2421	E 351421.4249
33		N 252665.9316	E 351431.2526

NOTE:
REFER TO CIVIL ENGINEERING PLANS FOR POB FOR ALL BOARDWALK, PARKING AND WALKWAY IMPROVEMENTS.

ADD ALTERNATES

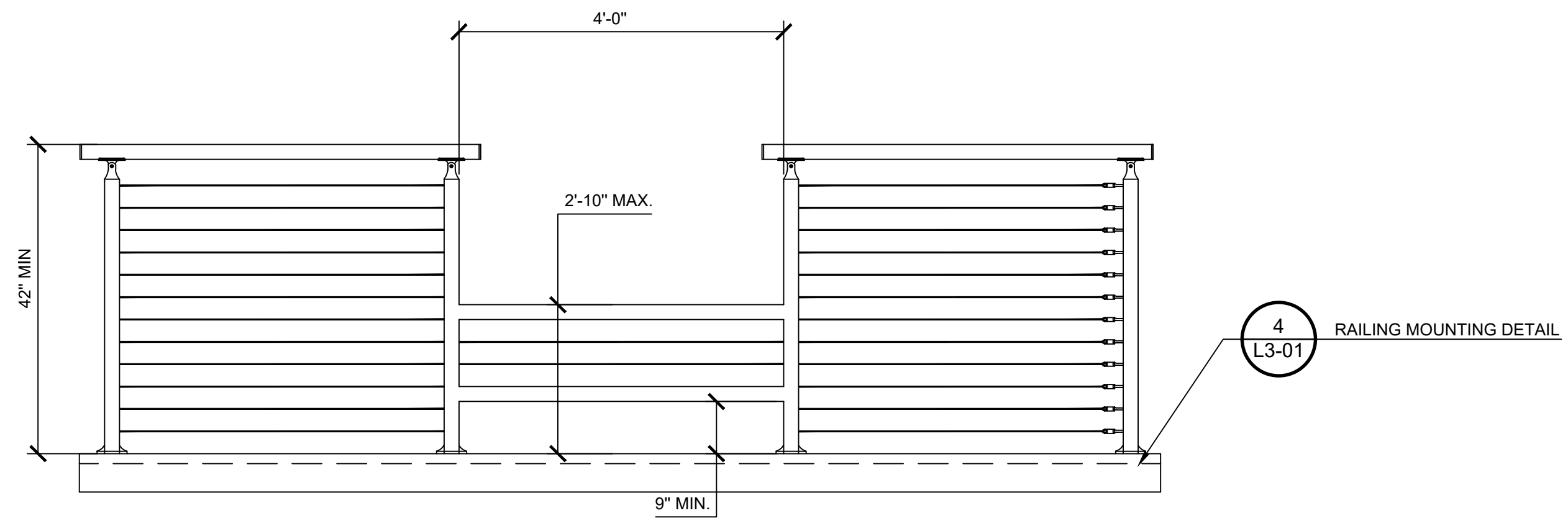
- ADD ALT#1 - F&I PARKING LOT ARTICULATED BLOCKS (SOUTHERN SECTION)
- ADD ALT#2 - F&I GEOGRID REINFORCED PARKING WITH GRANITE COBBLE EDGE (SOUTHERN SECTION)
- ADD ALT#3 - F&I GEOGRID REINFORCED PARKING WITH GRANITE COBBLE EDGE (MIDDLE AND NORTHERN SECTIONS)
- ADD ALT#4 - F&I SOLAR INTEGRATED LIGHT BOLLARDS
- ADD ALT#5 - F&I SOLID CURVED BENCH WITH BACK REST (SURFACE MOUNT)
- ADD ALT#6 - F&I 6' BENCH (MOUNT VARIES)
- ADD ALT#7 - F&I 55 GALLON TRASH RECEPTACLE WITH DOME LID





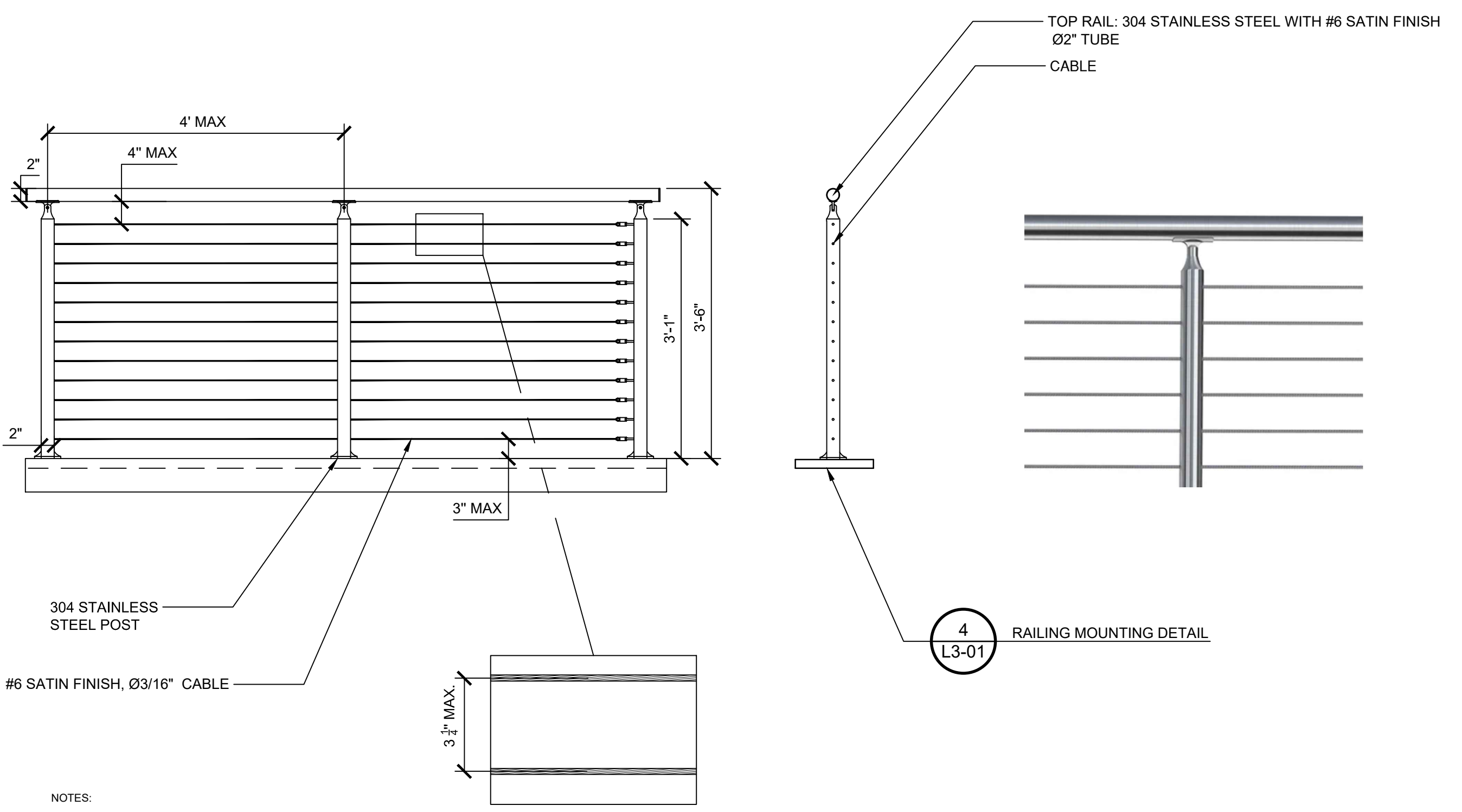
- NOTES:
- BOULDER LOCATIONS SHALL BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION.
 - ALL BOULDERS TO BE RE-LOCATED FROM EXISTING SITE.

1 BOULDER PLACEMENT
1/2" = 1'-0"



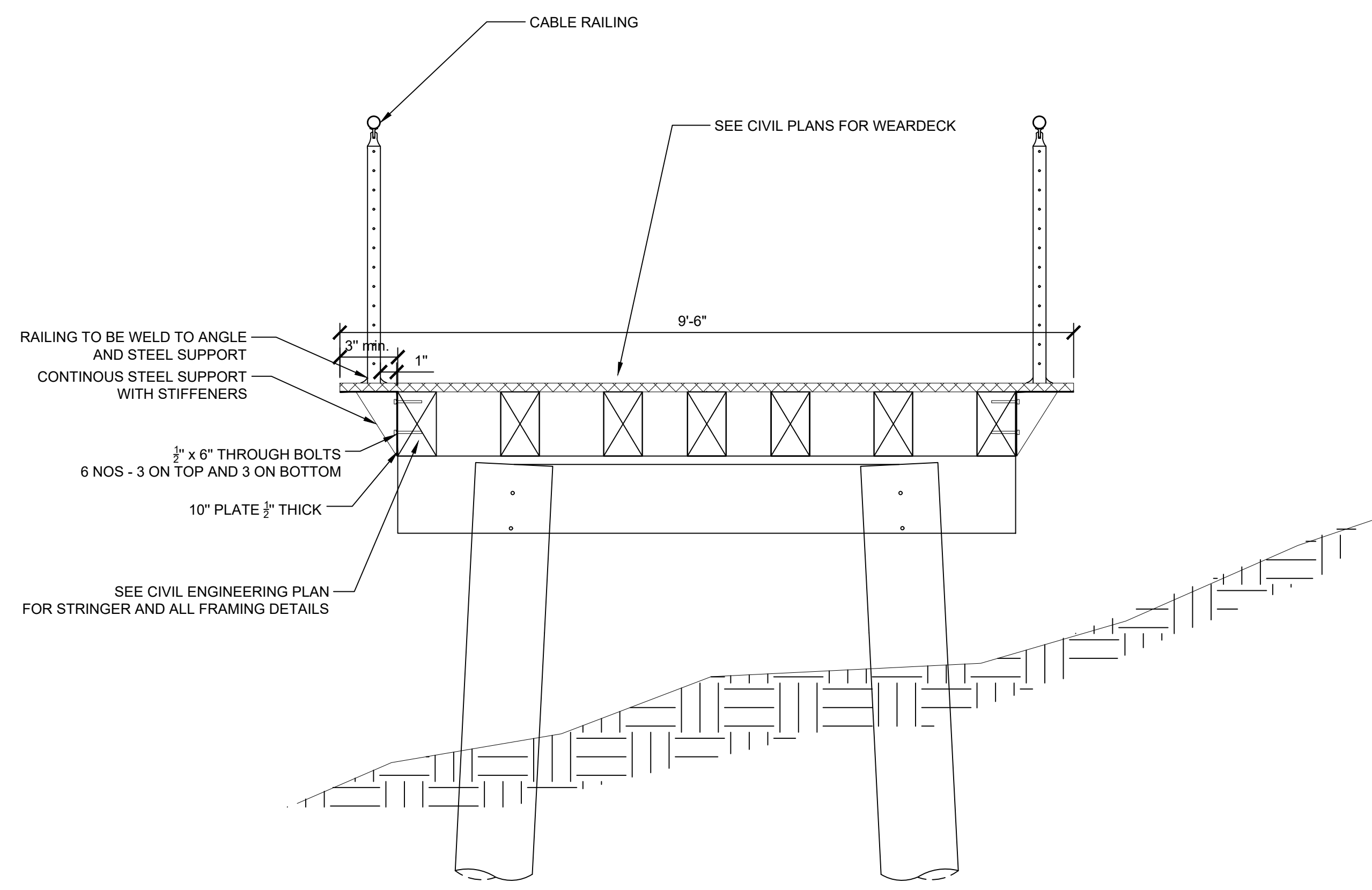
- NOTES:
- STEEL SHALL BE A MIN#304 WITH A BRUSHED FINISH.
 - STEEL CABLE SHALL BE A #6 SATIN FINISH, $\phi 3/16"$ CABLE.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWING SHOWING LAYOUT AND ALL CONNECTIONS STAMPED BY A RI LICENSED STRUCTURAL ENGINEER PRIOR TO CONSTRUCTIONS.
 - RAILING SHALL CONFORM TO ALL STATE ADA AND BUILDING CODE REQUIRE.

3 ADA FISHING RAILING DETAIL
3/4" = 1'-0"



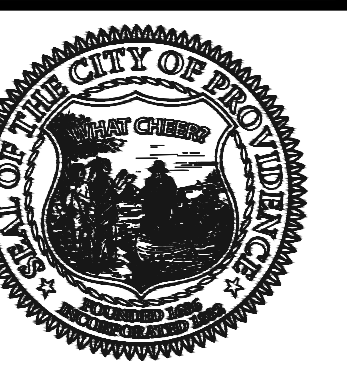
- NOTES:
- STEEL SHALL BE A MIN#304 WITH A BRUSHED FINISH.
 - STEEL CABLE SHALL BE A #6 SATIN FINISH, $\phi 3/16"$ CABLE.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWING SHOWING LAYOUT AND ALL CONNECTIONS STAMPED BY A RI LICENSED STRUCTURAL ENGINEER PRIOR TO CONSTRUCTIONS.
 - RAILING SHALL CONFORM TO ALL STATE ADA AND BUILDING CODE REQUIRE.
 - RAILING SHALL BE CIRCA RAILING SYSTEM WITH CABLE INFILL AS MANUFACTURED BY VIVA RAILING.

2 CABLE RAILING DETAIL
3/4" = 1'-0"



NOTE: MANUFACTURER/ CONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS PRIOR TO CONSTRUCTION STAMPED BY A RI LICENSED STRUCTURAL ENGINEER.

4 RAILING MOUNTING DETAIL
3/4" = 1'-0"



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Cunliff Lake Boardwalk at Roger Williams Park

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A.P. 90, Lot 157
Providence, RI 02095

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NORTH ARROW

AS SHOWN ON PLAN

SCALE

AS SHOWN ON PLAN

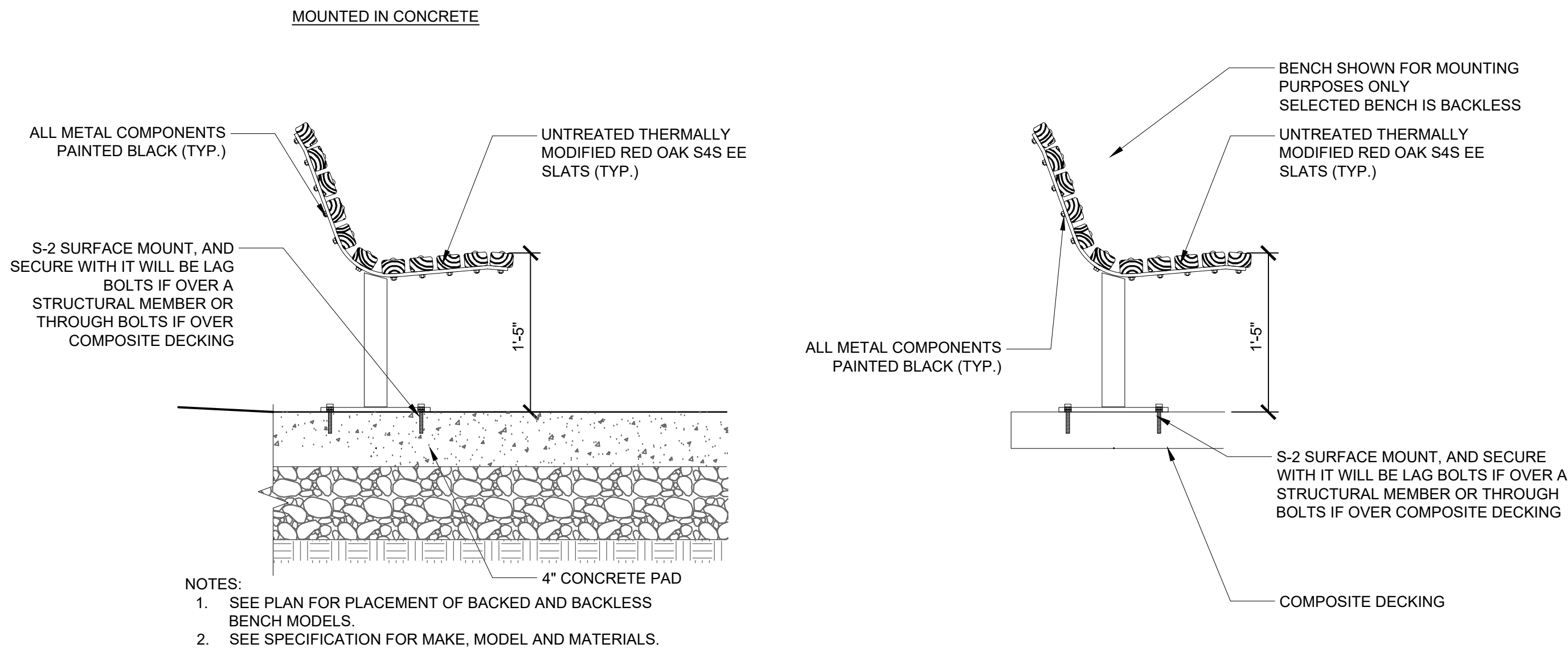
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DETAILS

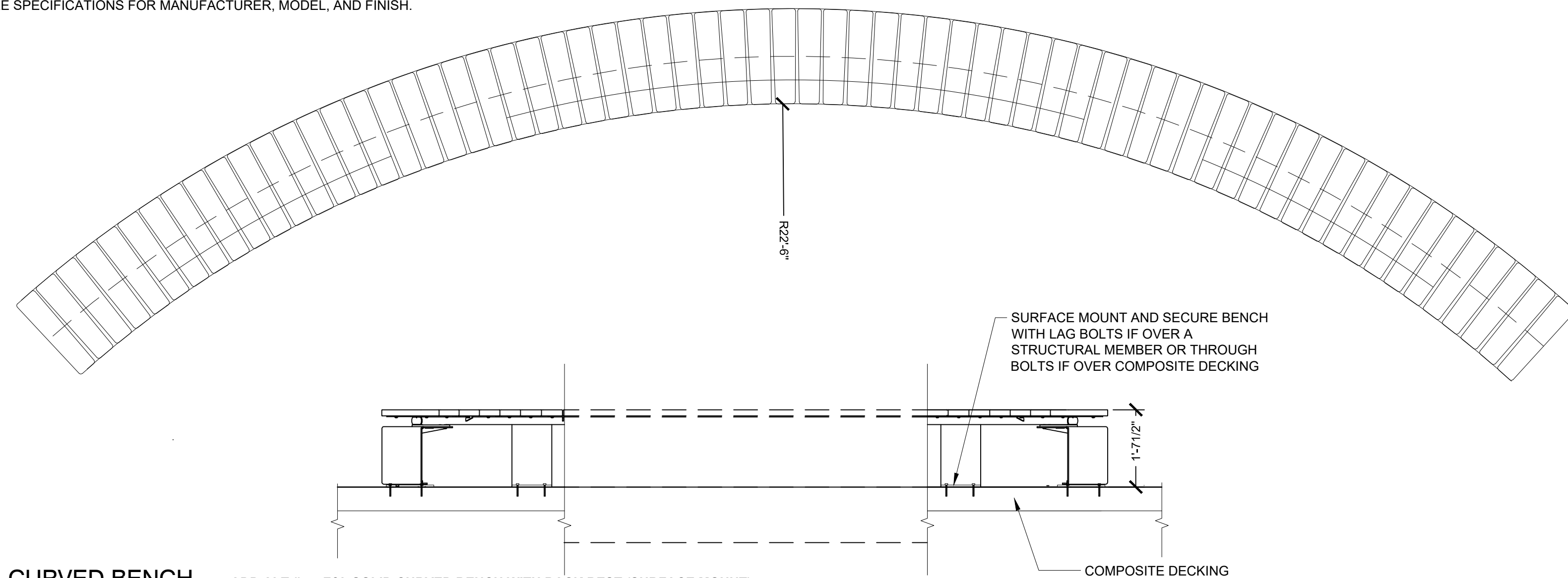
L3-01



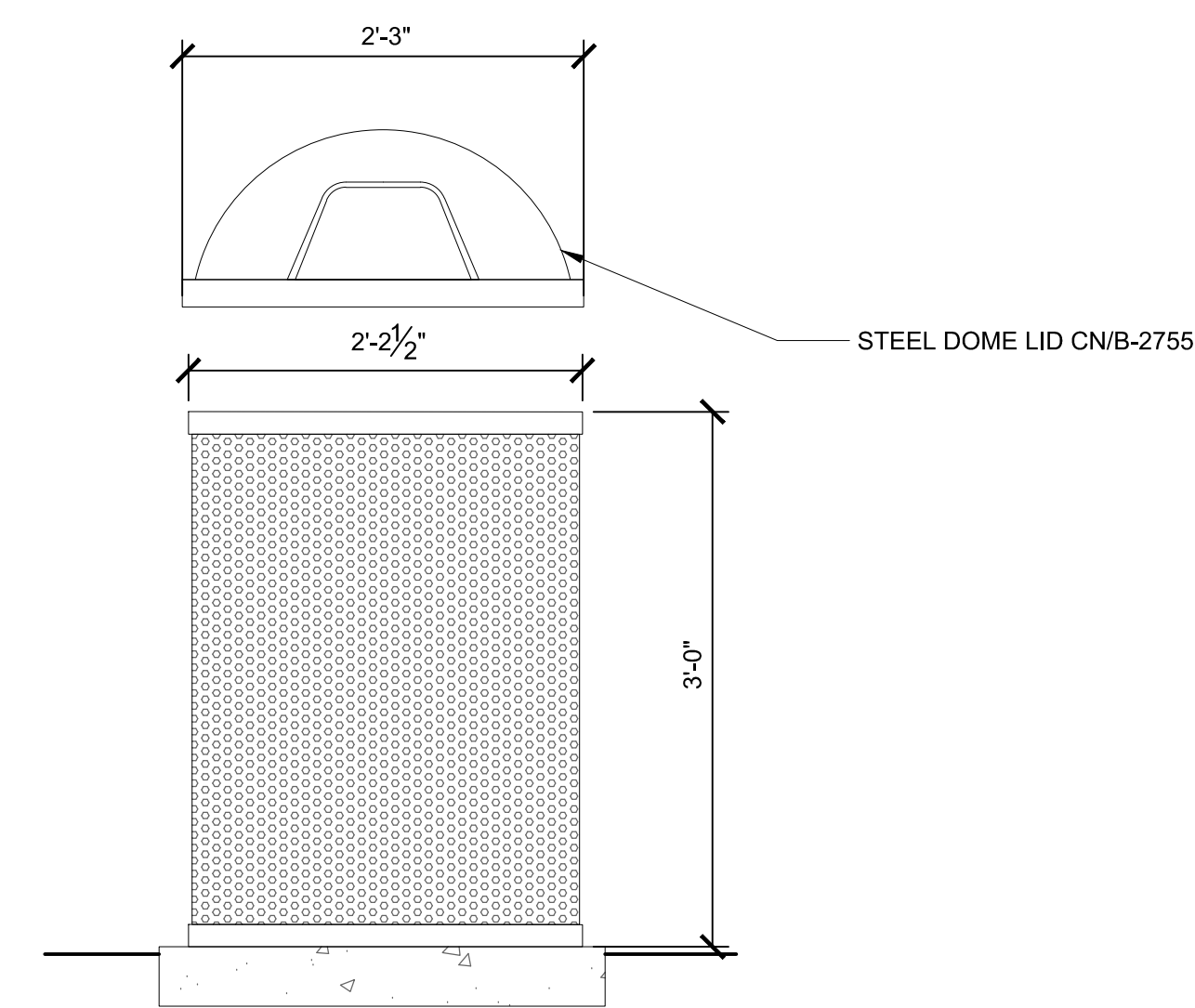
1 DUMOR TMR 6' BENCH ADD ALT # 6 - F&I 6' BENCH (MOUNT VARIES)
1" = 1'-0"

NOTE:

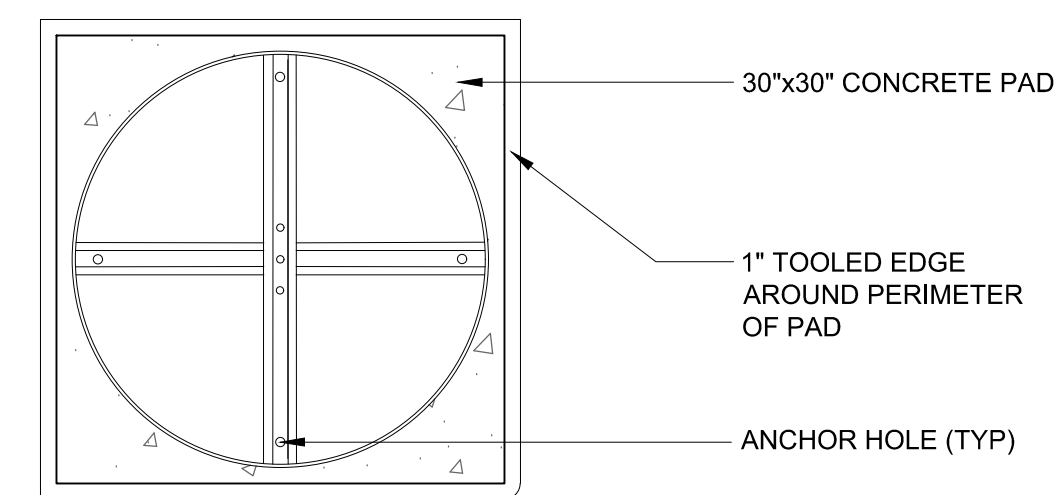
- ORNAMENTAL BENCH SHALL BE SURFACE MOUNTED TO BOARDWALK.
- SEE SPECIFICATIONS FOR MANUFACTURER, MODEL, AND FINISH.



3 CURVED BENCH ADD ALT # 5 - F&I SOLID CURVED BENCH WITH BACK REST (SURFACE MOUNT)
1/2" = 1'-0"



ELEVATION

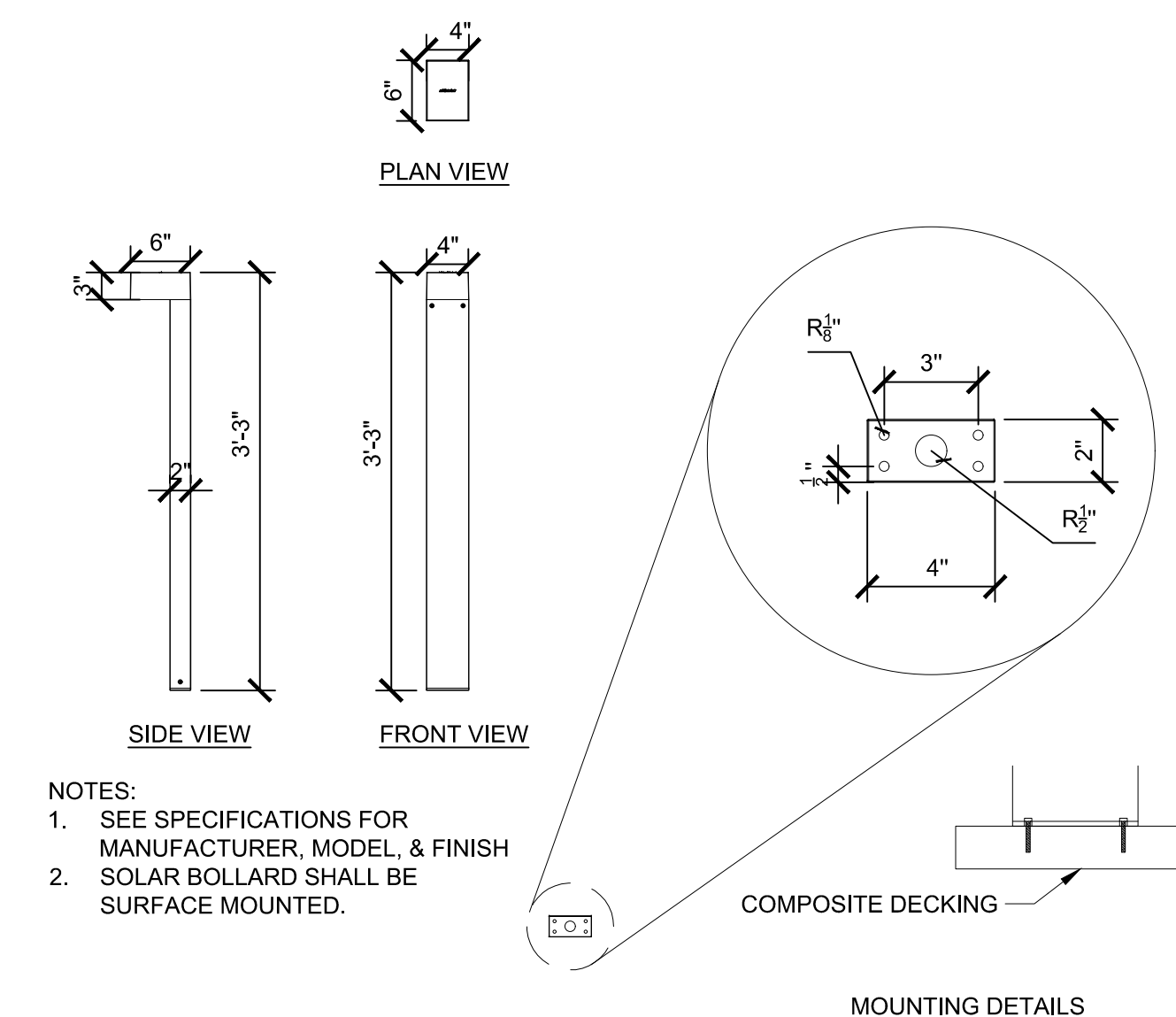


PLAN

NOTES:

- UNIT SHOULD BE SECURED TO CONCRETE PAD USING THE FOUR (4) ANCHOR HOLES.
- SEE SPECIFICATIONS FOR MAKE, MODEL AND SIZE.

2 TRASH RECEPTACLE ADD ALT # 7 - F&I 55 GALLON TRASH RECEPTACLE WITH DOME LID
1" = 1'-0"



NOTES:

- SEE SPECIFICATIONS FOR MANUFACTURER, MODEL, & FINISH
- SOLAR BOLLARD SHALL BE SURFACE MOUNTED.

4 SOLAR LIGHT BOLLARD ADD ALT # 4 - F&I SOLAR INTEGRATED LIGHT BOLLARDS
3/4" = 1'-0"



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NORTH ARROW

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SCALE

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DETAILS

L3-02

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**AS SHOWN
ON PLAN**

SCALE

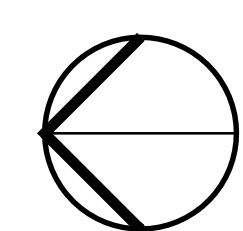
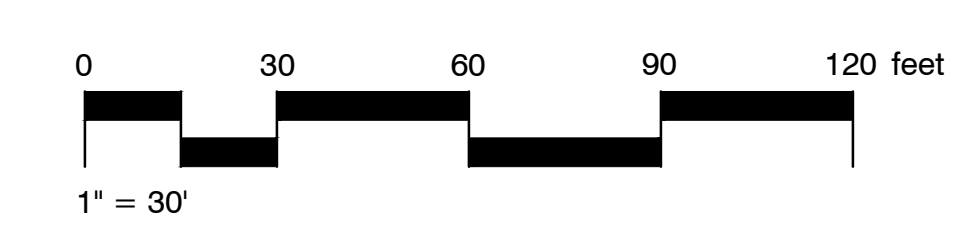
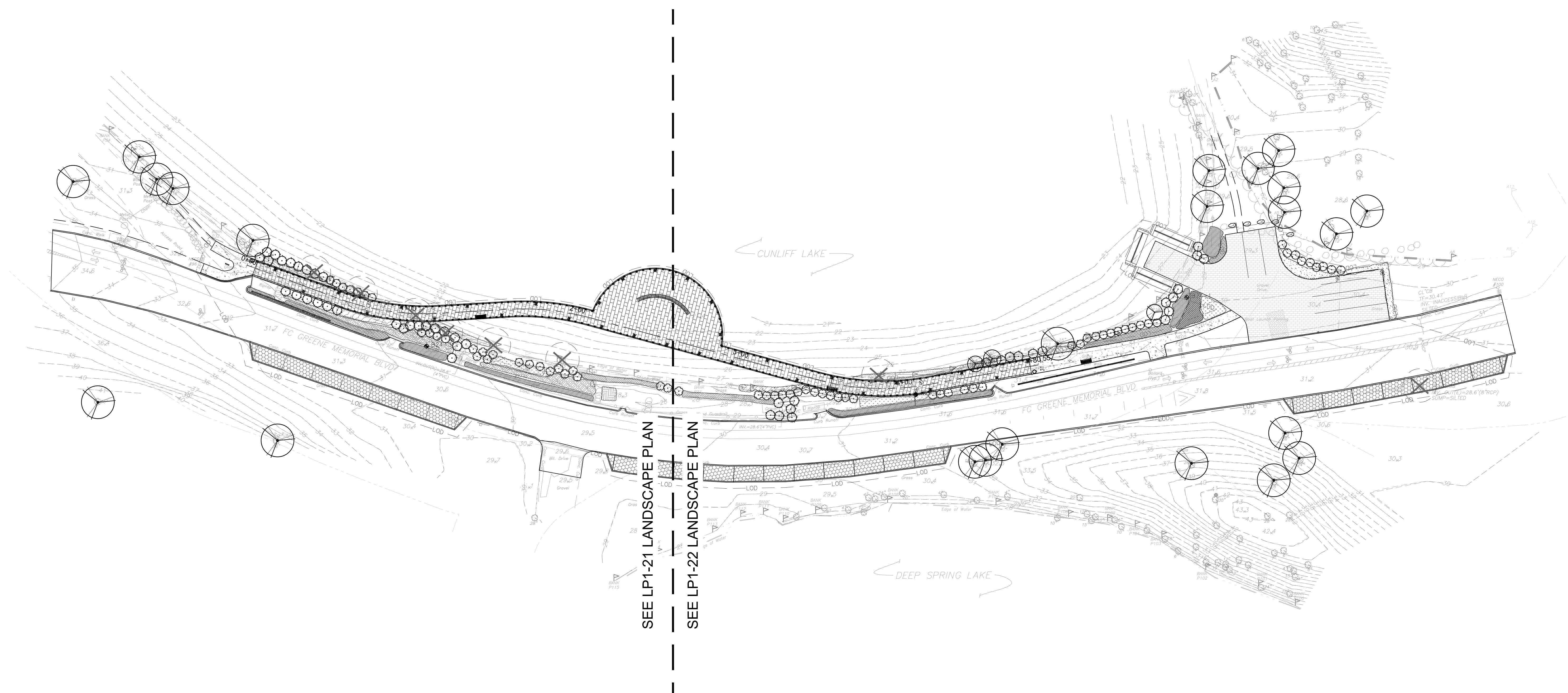
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**OVERALL
LANDSCAPE
PLAN
LP1-01**





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LANDSCAPE PLAN

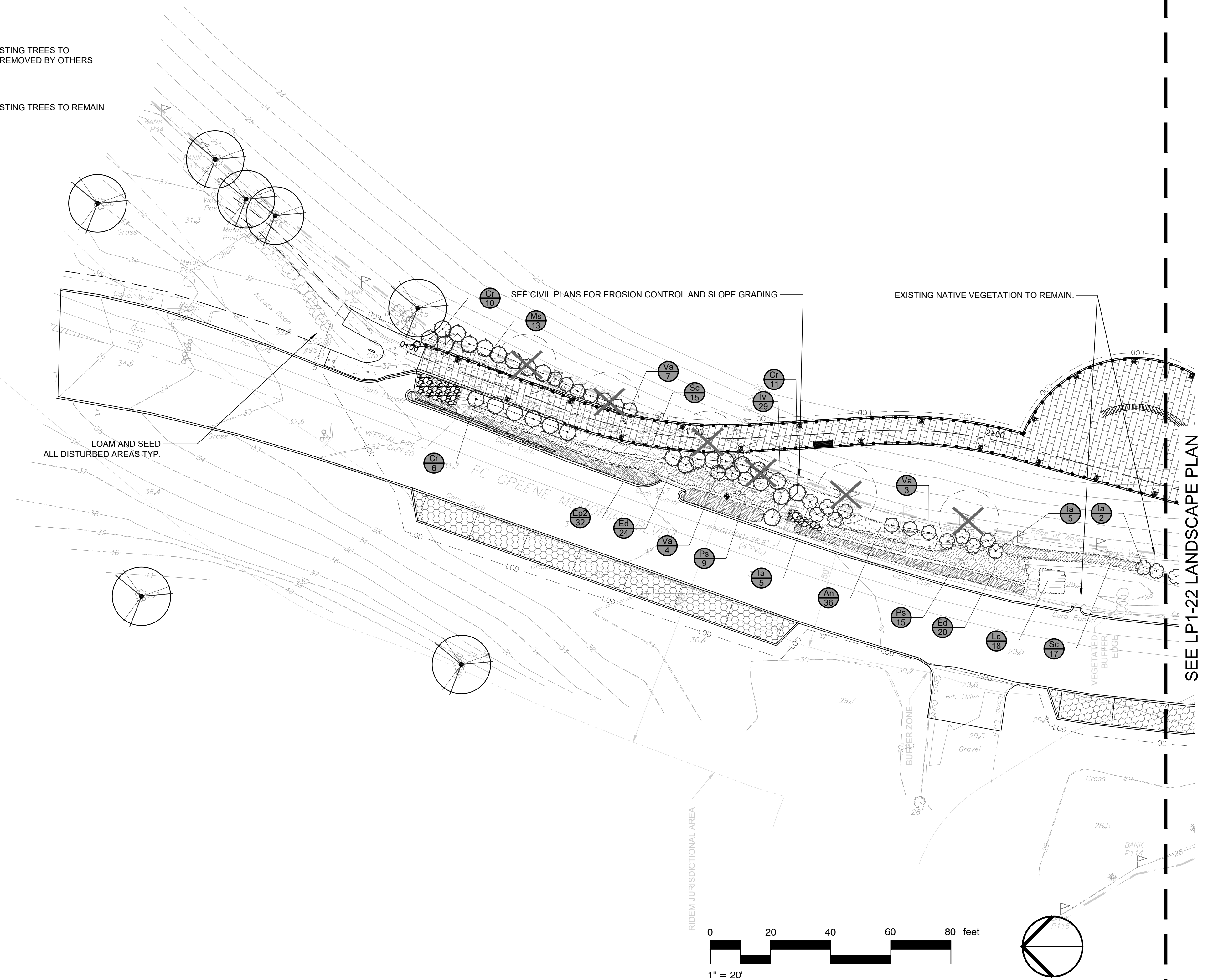
LP1-21

20 OF 22

PLANT SCHEDULE LP1-21

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
SHRUBS					
	Cr	27	Cornus sericea 'Cardinal' / Cardinal Red Twig Dogwood	#5	
	Ia	12	Ilex verticillata 'Afterglow' / Afterglow Winterberry	#5	
	Va	14	Viburnum dentatum / Viburnum	#5	
GROUND COVERS					
	An	36	Aster novi-belgii 'Professor Anton Kippenberg' / New York Aster	#1	24" o.c.
	Ep2	32	Echinacea purpurea 'Pica Bella' / Pica Bella Coneflower	#1	36" o.c.
	Ed	44	Eupatorium dubium / Joe Pye Weed	#1	48" o.c.
	Iv	29	Iris versicolor / Blue Flag	#1	24" o.c.
	Lc	18	Lobelia cardinalis / Cardinal Flower	#1	24" o.c.
	Ms	13	Matteuccia struthiopteris / Ostrich Fern	#1	36" o.c.
	Ps	24	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	#1	48" o.c.
	Sc	32	Sorghastrum nutans 'Indian Steel' / Indian Steel Indian Grass	#1	36" o.c.

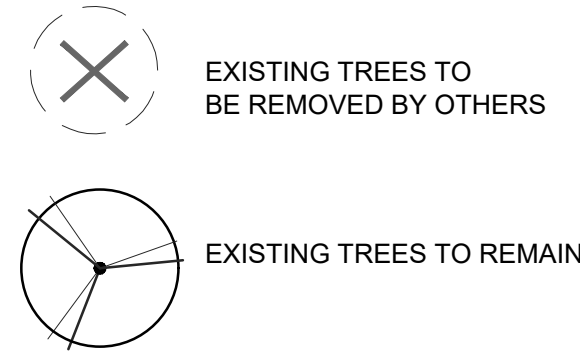
NOTES:
 1. SEE CIVIL PLANS FOR ALL EROSION CONTROL AND GRADING.



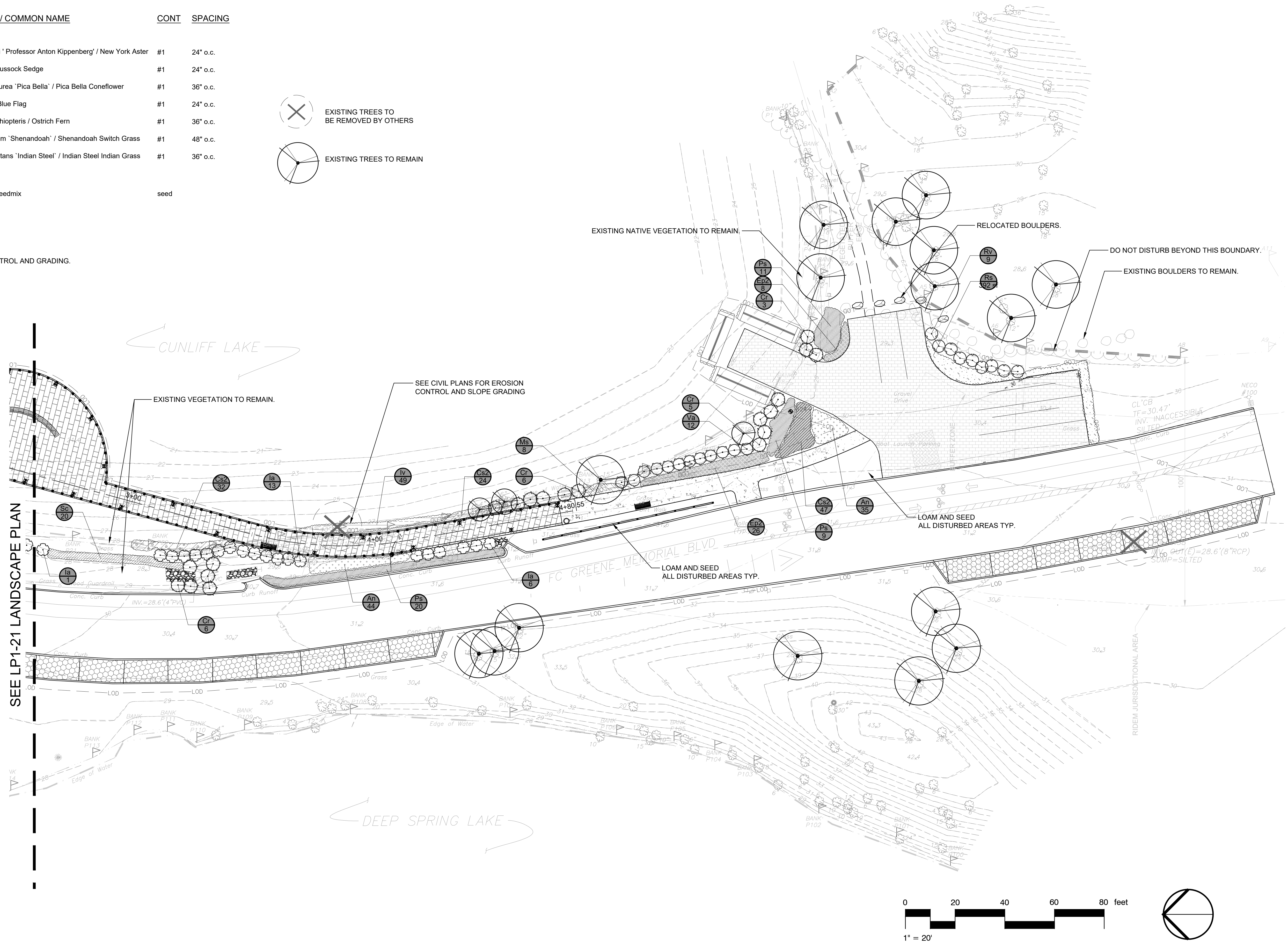
SEE LP1-22 LANDSCAPE PLAN

PLANT SCHEDULE LP1-22

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
SHRUBS					
	Cr	20	Cornus sericea 'Cardinal' / Cardinal Red Twig Dogwood	#5	
	Ia	20	Ilex verticillata 'Afterglow' / Afterglow Winterberry	#5	
	Rv	9	Rhododendron viscosum / Swamp Azalea	#5	
	Va	12	Viburnum dentatum / Viburnum	#5	
GROUND COVERS					
	An	79	Aster novi-belgii 'Professor Anton Kippenberg' / New York Aster	#1	24" o.c.
	Cs2	103	Carex stricta / Tussock Sedge	#1	24" o.c.
	Ep2	34	Echinacea purpurea 'Pica Bella' / Pica Bella Coneflower	#1	36" o.c.
	Iv	49	Iris versicolor / Blue Flag	#1	24" o.c.
	Ms	8	Matteuccia struthiopteris / Ostrich Fern	#1	36" o.c.
	Ps	40	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	#1	48" o.c.
	Sc	20	Sorghastrum nutans 'Indian Steel' / Indian Steel Indian Grass	#1	36" o.c.
SEED MIXES					
	Rs	392 sf	/ Restoration Seedmix	seed	



NOTES:
1. SEE CIVIL PLANS FOR ALL EROSION CONTROL AND GRADING.



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NORTH ARROW

AS SHOWN ON PLAN

SCALE

AS SHOWN ON PLAN

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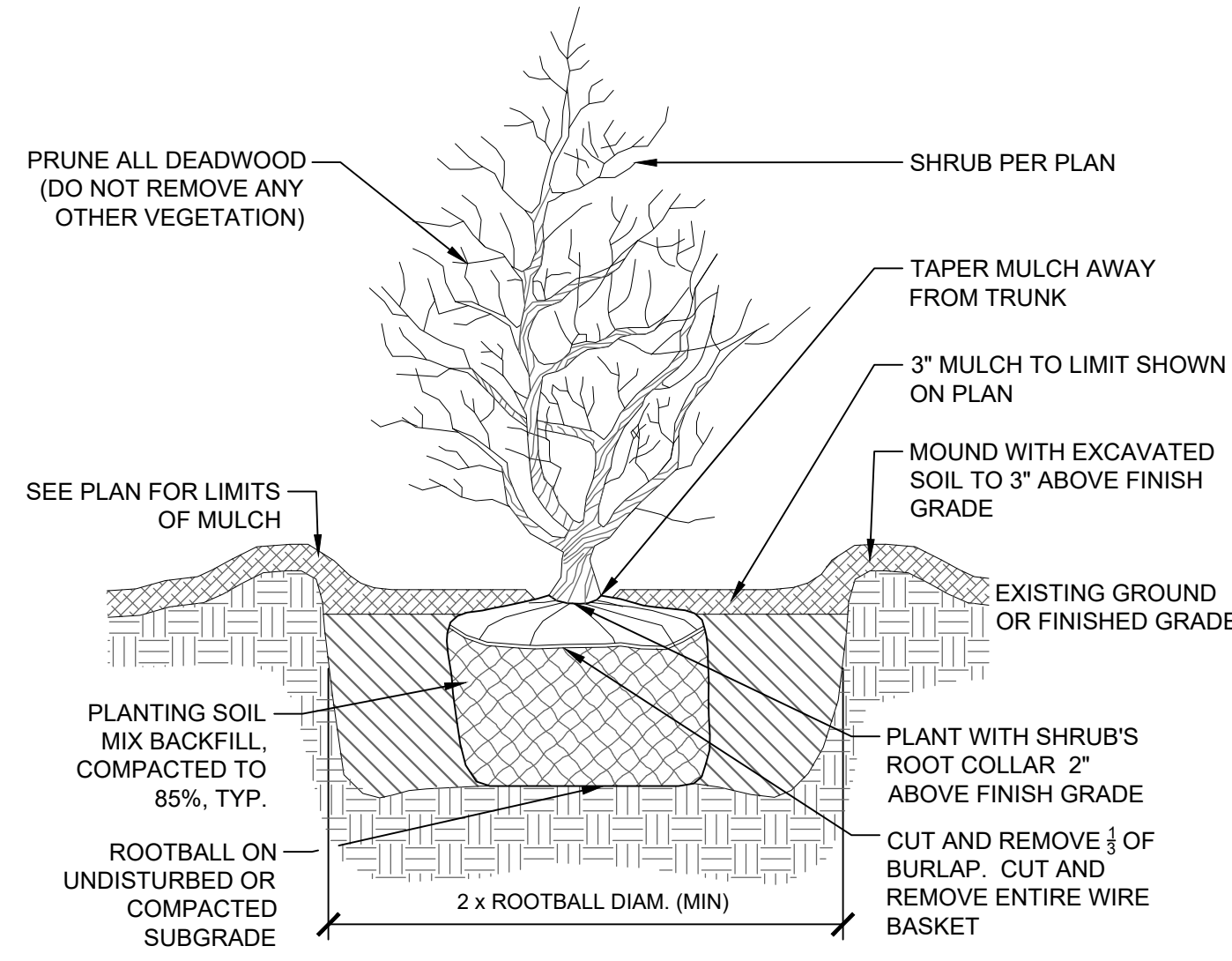
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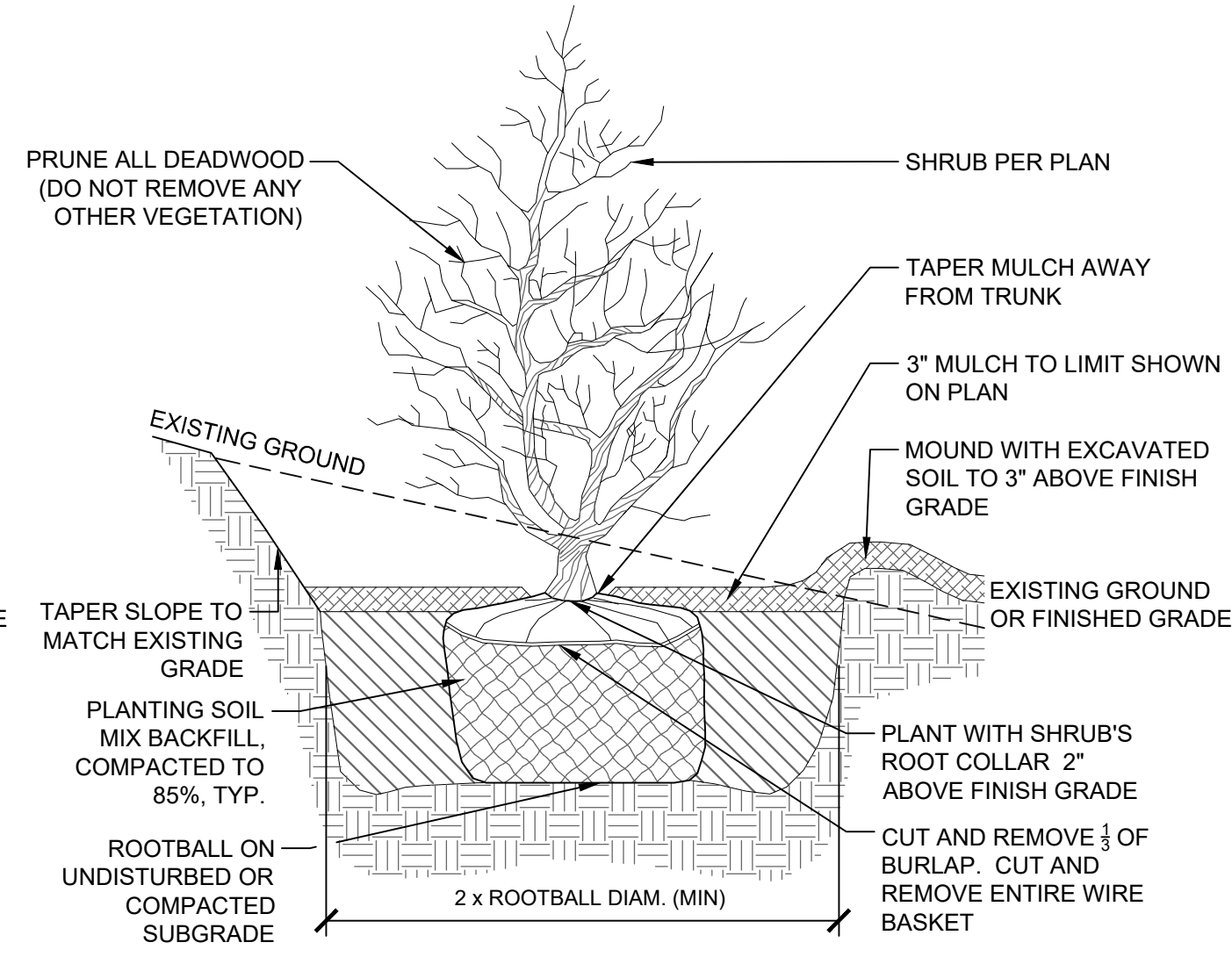
LANDSCAPE PLAN

LP1-22

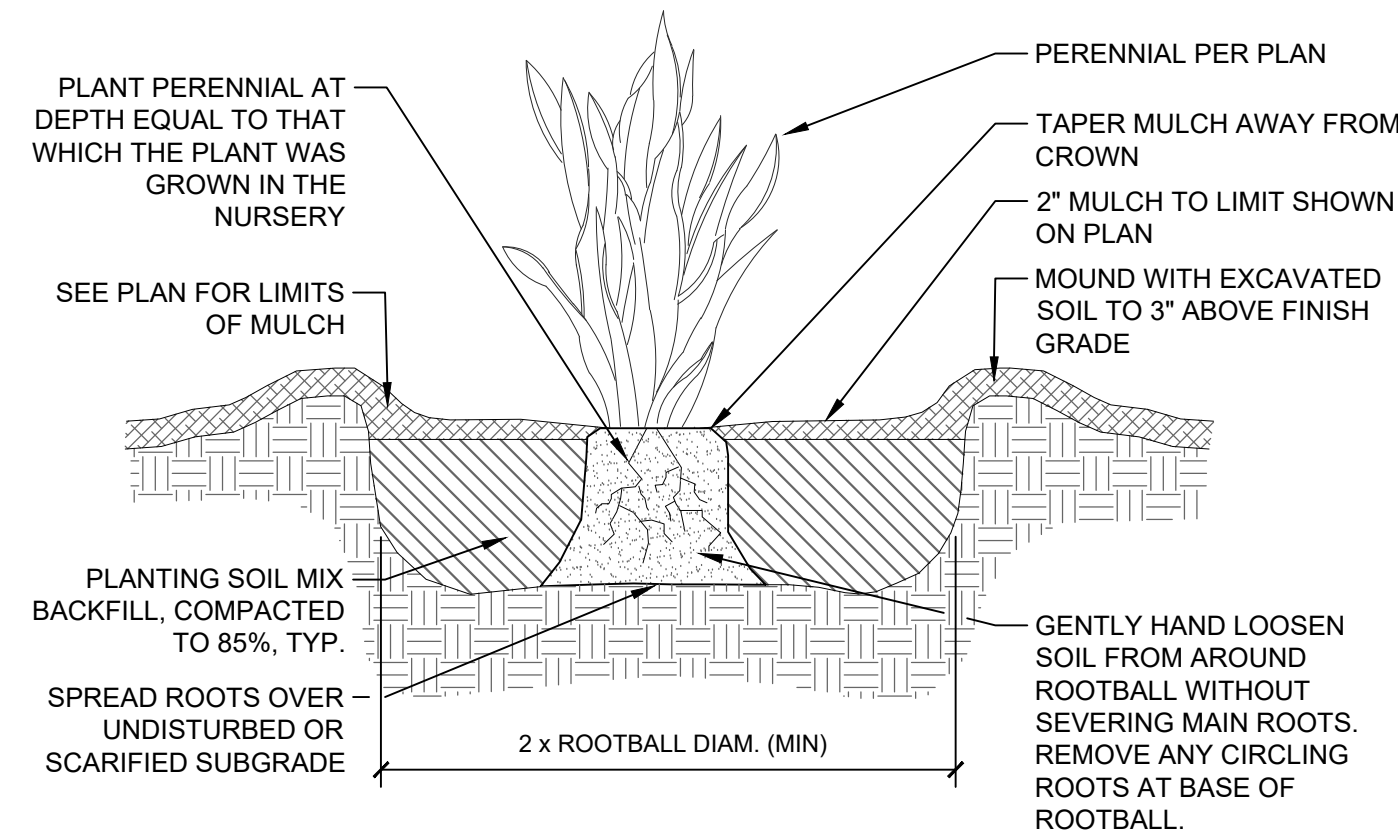
21 OF 22



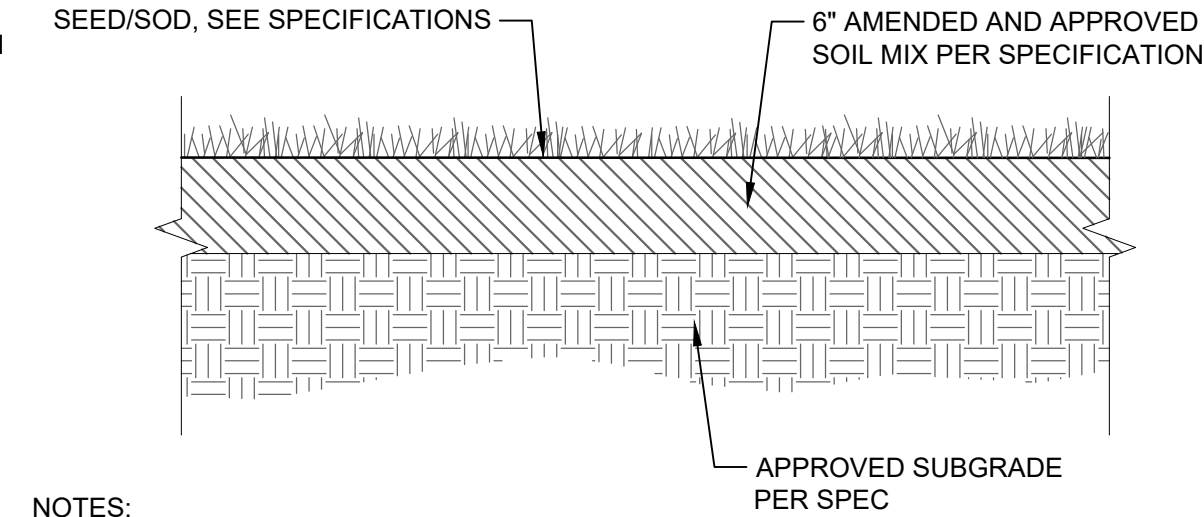
1 SHRUB PLANTING
1" = 1'-0"



2 SHRUB PLANTING ON SLOPE
1" = 1'-0"

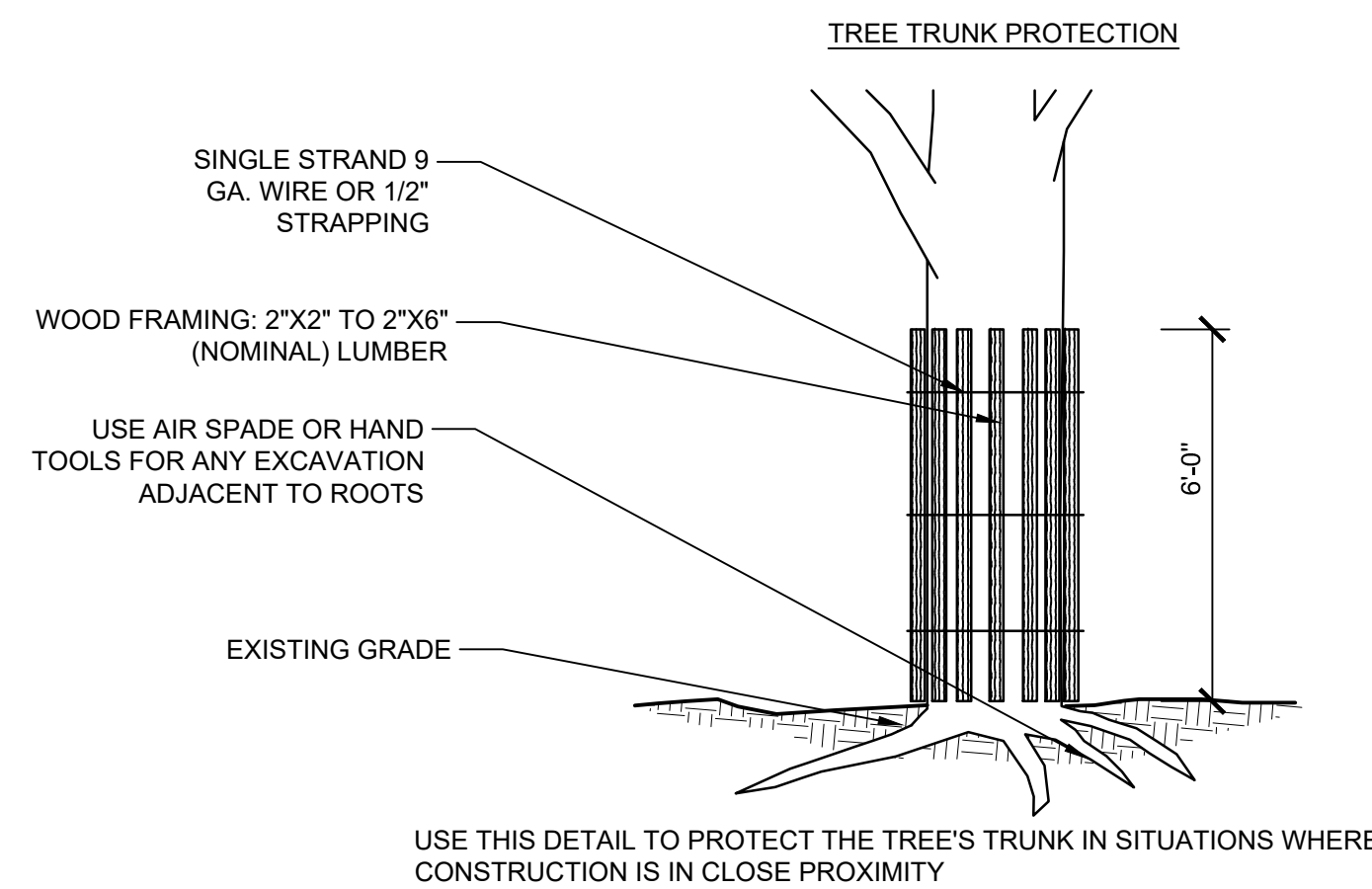


3 GRASS OR PERENNIAL PLANTING
1" = 1'-0"

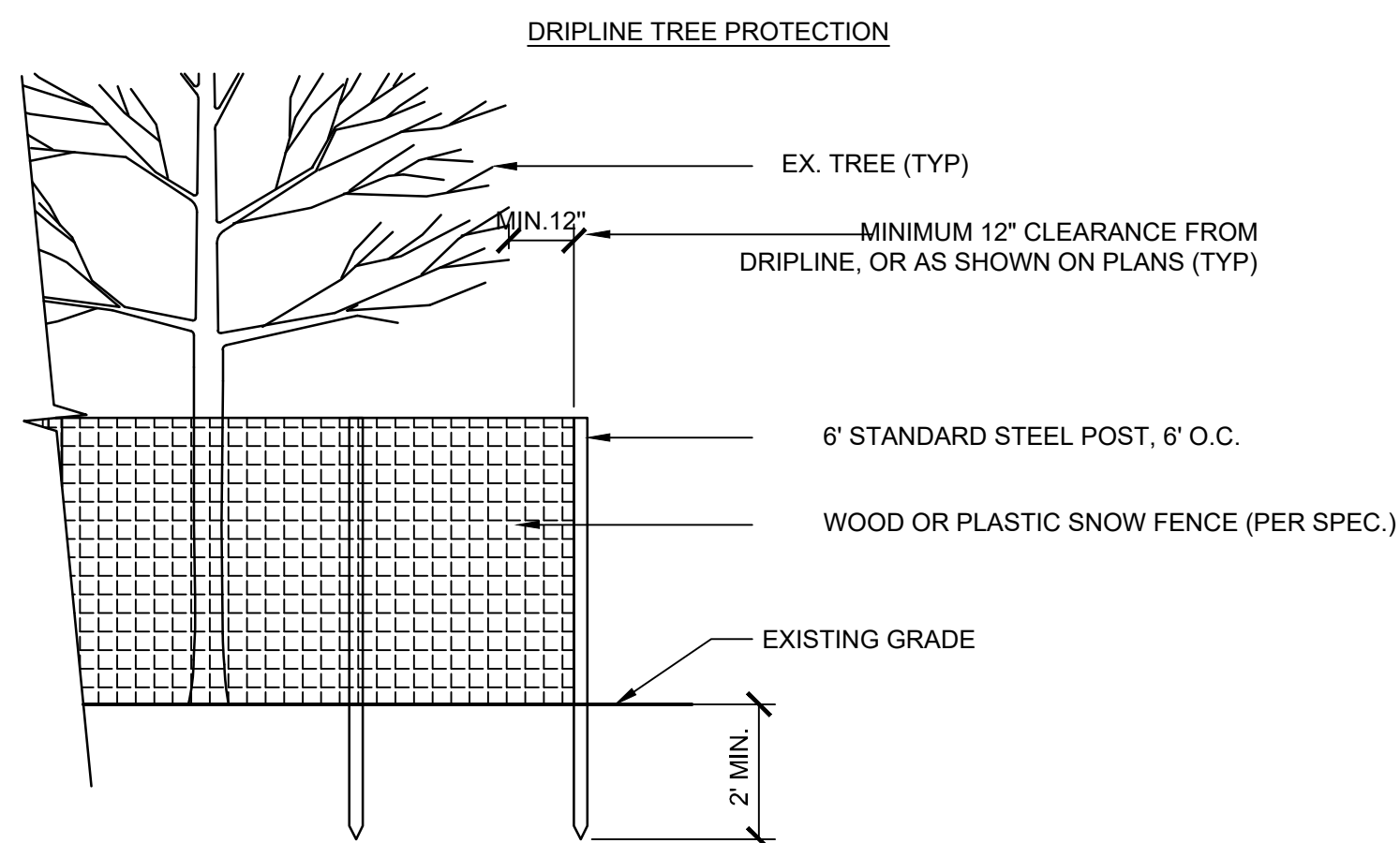


4 LOAM & SEED
1" = 1'-0"

NOTES:
1. SEE PLANS FOR LIMITS OF SEEDED/SODDED AREAS.
2. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR WITH 6 INCHES LOAM AND SEED/SOD.
3. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOAM AND SEED/SOD.
4. CONTRACTOR SHALL ENSURE A FULL 6" DEPTH OF LOAM AFTER ROLLING, RAKING, AND WATERING. PREPARED SEED BED SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO SEEDING ACTIVITIES.



5 TREE PROTECTION
3/8" = 1'-0"



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PLANTING DETAILS

LP3-01

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