

# WINTER ISLAND TRAIL

## SALEM, MASSACHUSETTS DRAWING LIST

L-000 COVER SHEET

### LANDSCAPE :

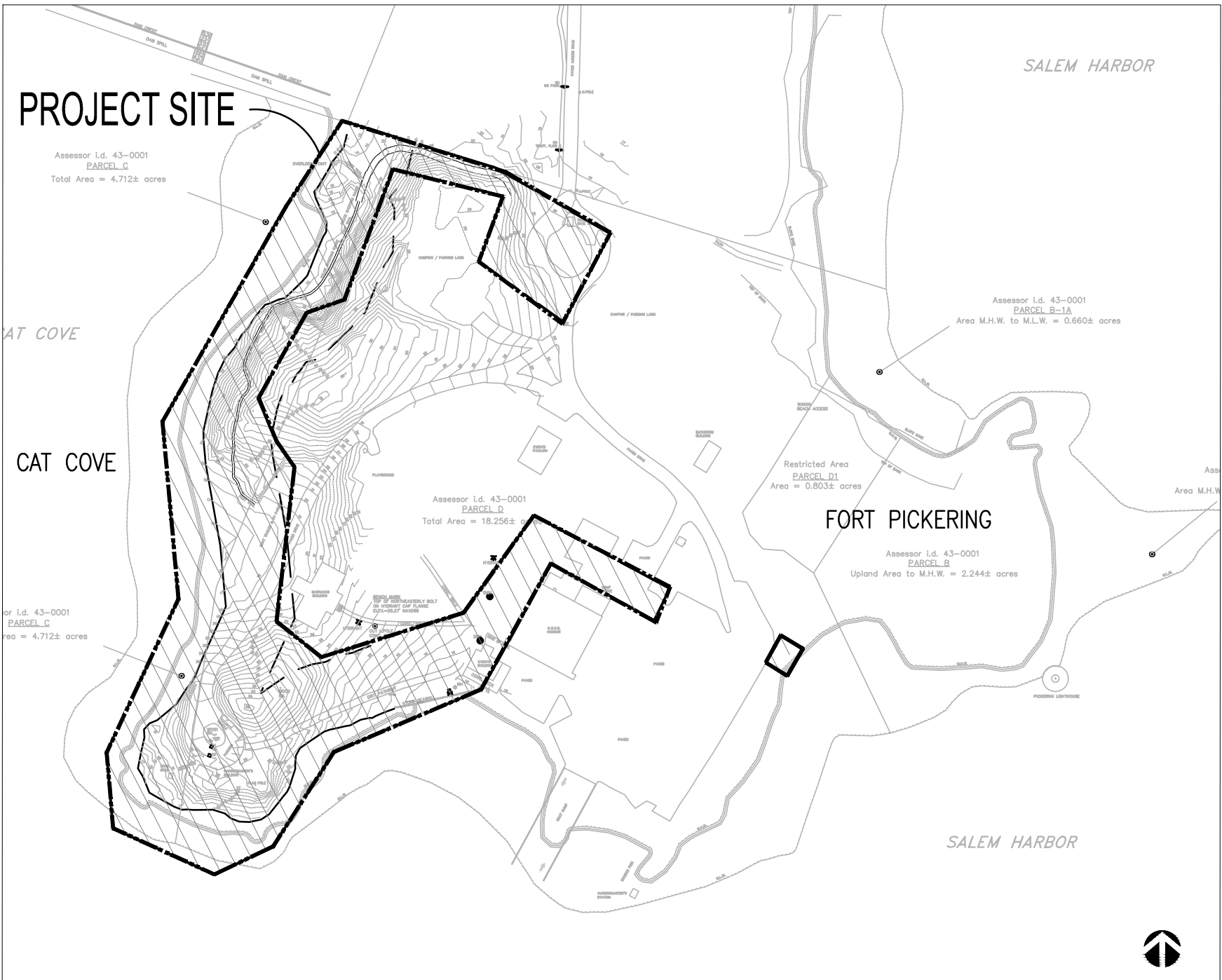
- L-EX EXISTING CONDITIONS
- L-001 SITE PREPARATION PLAN
- L-002 SITE IMPROVEMENT PLAN
- L-002.1 SITE IMPROVEMENT PLAN
- L-003 PLANTING PLAN
- L-003.1 PLANTING PLAN
- L-004 GRADING PLAN
- L-004.1 GRADING PLAN
- L-004.2 GRADING PLAN
- L-005 DETAILS
- L-006 DETAILS
- L-007 DETAILS

PREPARED BY:  
**LANDSCAPE ARCHITECT**  
Kyle Zick Landscape Architecture, Inc.  
36 Bromfield Street, Suite 202  
Boston, MA 02108  
617-451-1018 Tel  
www.kylezick.com

**CIVIL ENGINEER**  
Woodard & Curran  
40 Shattuck Road, Suite 110  
Andover, MA 01810

**SURVEYOR**  
Norde-East Survey  
27 Congress Street, Suite 205-8  
Salem, MA 01970

## CONSTRUCTION DOCUMENTS 02.05.16



LOCUS MAP

### WINTER ISLAND TRAIL

SALEM, MASSACHUSETTS

CITY OF SALEM, MA



NO.	REVISION	DATE
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**kzla**  
Kyle Zick Landscape Architecture, Inc.  
36 Bromfield Street Suite 202 617 451-1018 Tel  
Boston, MA 02108



Job Number:

Project: WINTER ISLAND TRAIL

Drawn By: SW	Checked By: KZ
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Date: February 5, 2016

Scale: N/A

Drawing Title:

COVER SHEET

L-000

Drawing file: P:\Projects\Winter Island Trails Salem, MA\cond\plans\yr-site.dwg Plot Date: Feb 05, 2016 - 10:47am

Assessor i.d. 43-0001  
PARCEL C  
Total Area = 4.712± acres

CAT COVE

OVE

100' COASTAL  
BUFFER ZONE

FOOT TRAIL

(~35) 10-20 FT  
SEGMENTS OF  
UTILITY POLE

PILE OF WOOD,  
GRANITE, OTHER  
MATERIALS

BOAT TRAILER &  
RV PARKING

BARRACKS BUILDING

EXISTING TREE, TYP.

-0001

2± acres

CONCRETE FOUNDATION

HARBORMASTER'S  
BUILDING

FLOOD LIGHT

WOOD SHED

(1) BENCH

ELECTRICAL HOOK UP  
CONCRETE FOUNDATION

(3) BENCHES

FLAG POLE

MAPLE ALLEE

Assessor i.d. 43-0001  
PARCEL D  
Total Area = 18.256± acres

CHAIN LINK FENCE,  
BARBED WIRE TOP

SWINGING  
ENTRANCE GATE  
ENTRANCE & CPA SIGNS

SECURITY GATE HOUSE

MIXED SHRUBS

3" DBH MAPLE

BENCH MARK  
TOP OF NORTHEASTERLY BOLT  
ON HYDRANT CAP FLANGE  
ELEV.=25.27' NAVD83

HYDRANT

CUT UP POLE

CONC. WALL

GAS TANK

CONC. BECK

PAVED

PAVED

PAVED

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Restricted Area  
PARCEL D1  
Area = 0.803± acres

FORT PICKERING

Assessor i.d. 43-0001  
PARCEL B  
Upland Area to M.H.W. = 2.244± acres

SALEM HARBOR

NOTE:  
SURVEY WAS DONE BY:  
NORDE-EAST SURVEY IN  
SALEM, MA JUNE 15TH 2015

Assessor i.d. 43-0001  
PARCEL B-1A  
Area M.H.W. to M.L.W. = 0.660± acres

Assessor  
P  
Area M.H.W. to

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Scale: 1"=60'-0"

Drawing Title:

EXISTING CONDITIONS PLAN

L-EX





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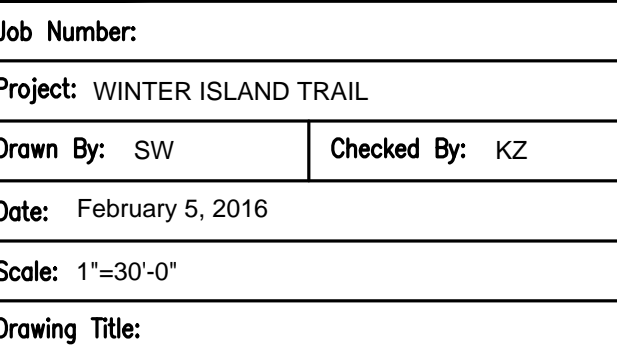
L-001





## SALEM, MASSACHUSETTS

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Boston, MA 02108



L002

1. SURVEY WAS PERFORMED BY NORDE-EAST SURVEY, SALEM, MA.
2. ALL LINE AND GRADE WORK PER DRAWINGS AND SPECIFICATIONS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR SURVEYOR ENGAGED BY THE CONTRACTOR.
3. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
4. STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE IN AND WITHIN LIMITS OF WORK AS SHOWN ON PLANS AND AS APPROVED BY THE LANDSCAPE ARCHITECT.
5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK.
6. ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL ESTABLISH PERMANENT CONSTRUCTION BENCH MARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCH MARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.
8. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
9. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE, ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
10. PROVIDE EXPANSION JOINTS AT ALL CURBS, WALLS, STEPS, LIGHT POLE BASES, PULL BOXES, MANHOLES, ETC. AND AS SHOWN ON PLAN
11. AUTOCAD FILE WILL BE PROVIDED TO THE CONTRACTOR TO LAYOUT SITE IMPROVEMENTS.



Drawing file: P:\Projects\Winter Island Trails Salem, MA\cod\plans\yr-site.dwg Plot Date: Feb 05, 2016 - 2:32pm

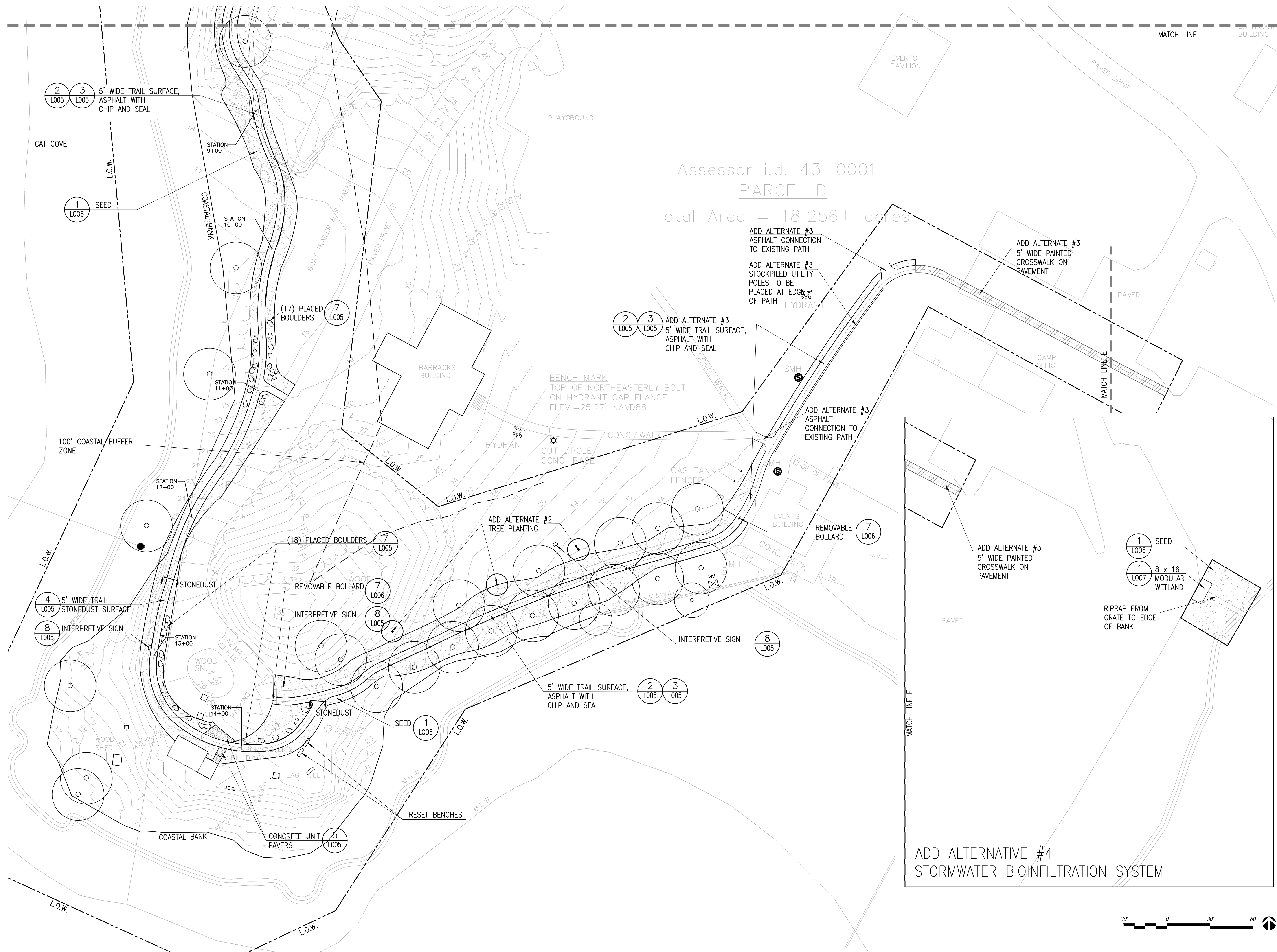


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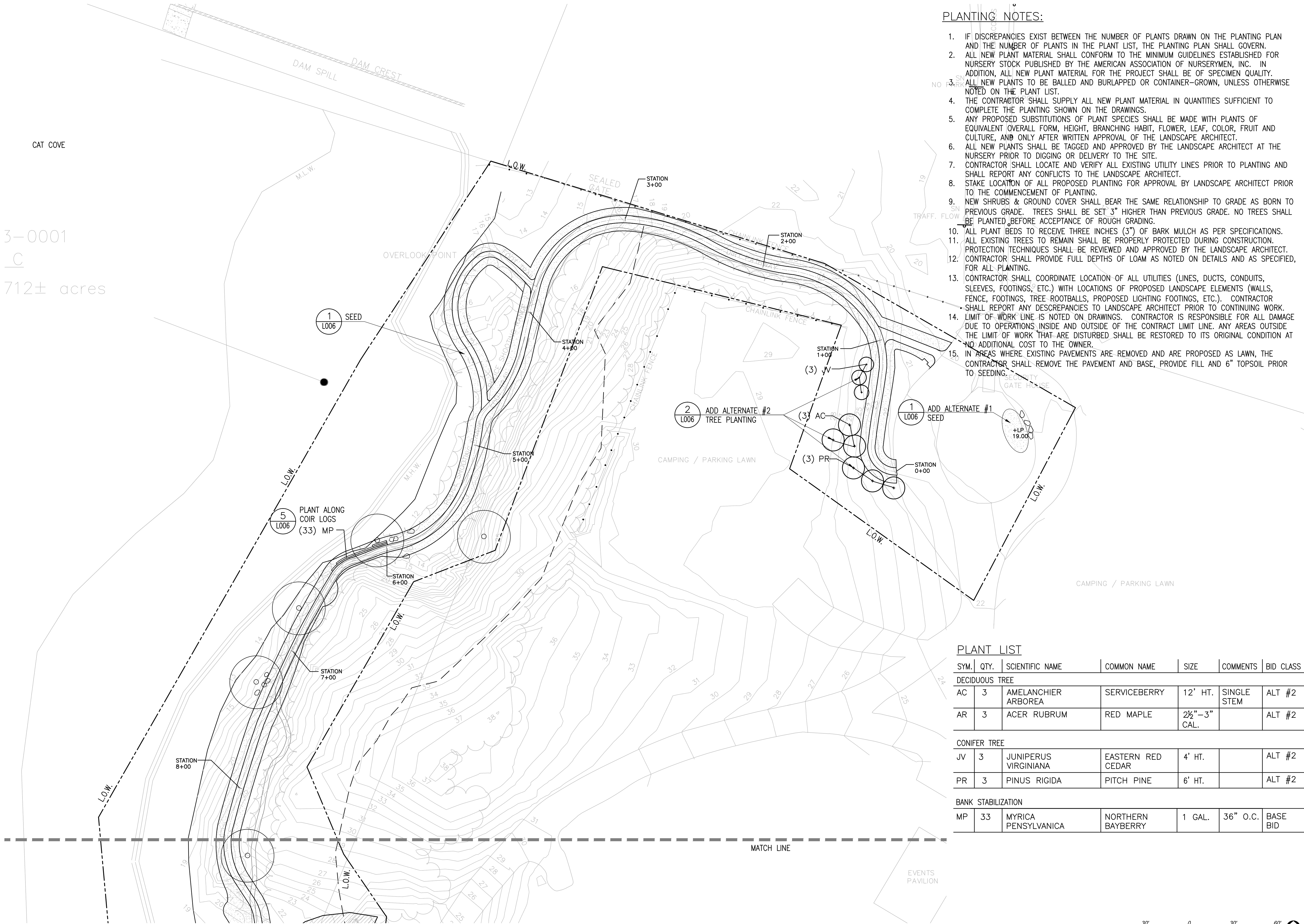
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Drawing file: P:\Projects\Winter Island Trails Salem, MA\cadd\plans\yr-site.dwg Plot Date: Feb 05, 2016 - 10:48am

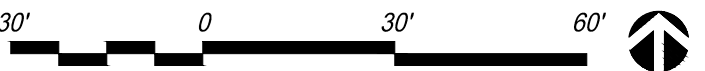


PLANTING NOTES:

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL 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 LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS & GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS BORN TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE THREE INCHES (3") OF BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
- CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- IN AREAS WHERE EXISTING PAVEMENTS ARE REMOVED AND ARE PROPOSED AS LAWN, THE CONTRACTOR SHALL REMOVE THE PAVEMENT AND BASE, PROVIDE FILL AND 6" TOPSOIL PRIOR TO SEEDING.

PLANT LIST

SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENTS	BID CLASS
DECIDUOUS TREE						
AC	3	AMELANCHIER ARBOREA	SERVICEBERRY	12' HT.	SINGLE STEM	ALT #2
AR	3	ACER RUBRUM	RED MAPLE	2½"-3" CAL.		ALT #2
CONIFER TREE						
JV	3	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	4' HT.		ALT #2
PR	3	PINUS RIGIDA	PITCH PINE	6' HT.		ALT #2
BANK STABILIZATION						
MP	33	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	1 GAL.	36" O.C.	BASE BID



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CITY OF SALEM, MA



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Job Number:  
Project: WINTER ISLAND TRAIL  
Drawn By: SW Checked By: KZ  
Date: February 5, 2016  
Scale: 1"=30'-0"  
Drawing Title:

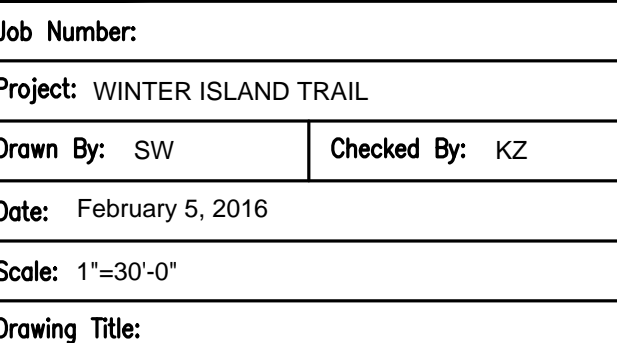
PLANTING PLAN

L003



## SALEM, MASSACHUSETTS

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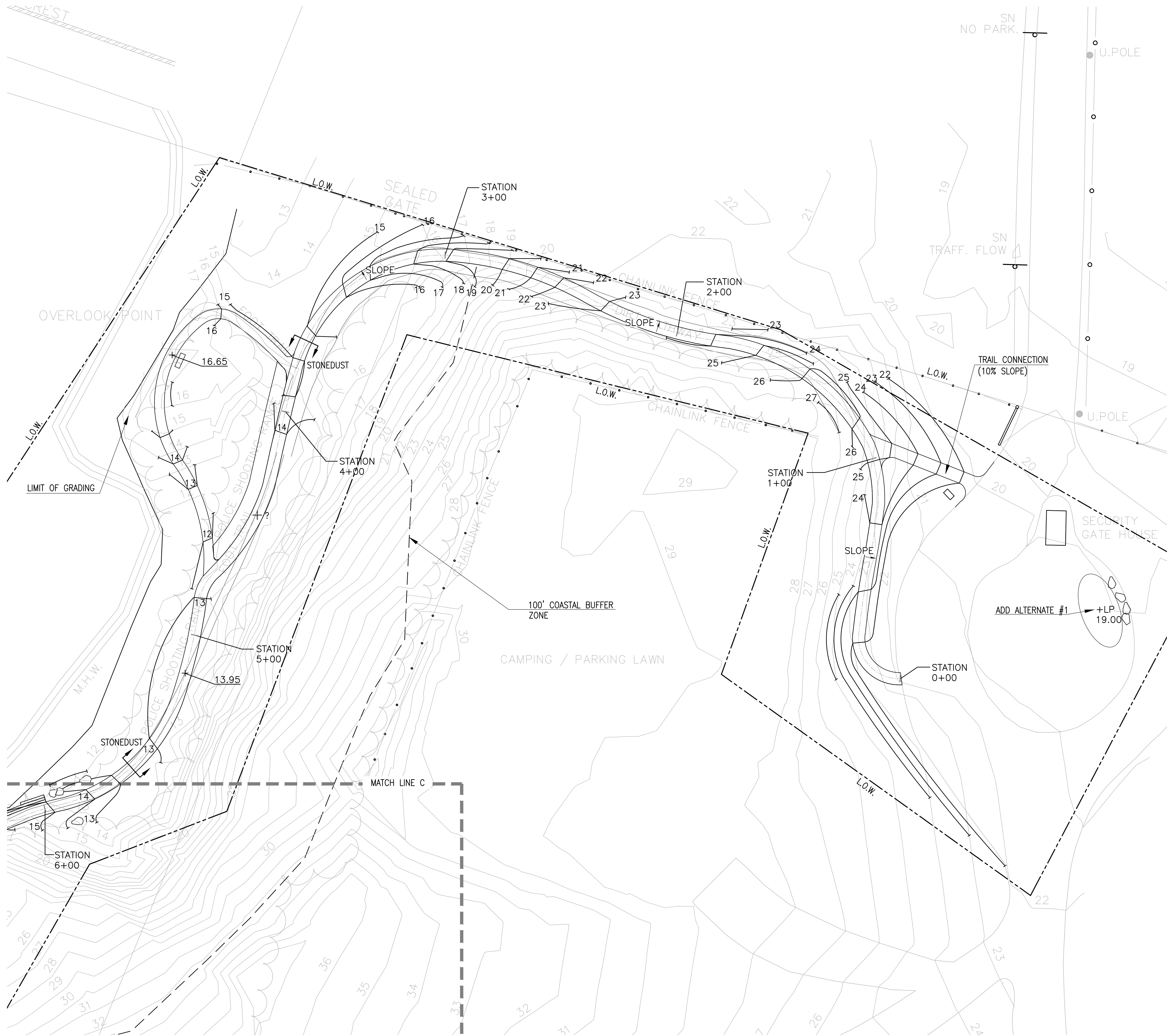
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Drawing file: P:\Projects\Winter Island Trails Salem, MA\cadd\plans\yr-site.dwg Plot Date: Feb 05, 2016 - 10:48am



GRADING NOTES:

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES. THE "DIG SAFE" TELEPHONE NUMBER FOR MASSACHUSETTS IS 811.
2. BOTTOM OF CURB ELEVATIONS BETWEEN EXISTING SPOT GRADES SHOWN ON SURVEY ARE INTERPOLATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND SHALL REPORT ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITION TO THE LANDSCAPE ARCHITECT.
3. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
4. COMPACT SUBGRADE PRIOR TO ANY FINISH GRADING. REMOVE ALL SOFT SPOTS OBSERVED OR IDENTIFIED IN FIELD.
5. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
6. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.
7. EXCAVATION REQUIRED WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. PLANT MATERIALS DAMAGED BY CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
8. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS OR ABUTTING PROPERTY.
9. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW.
10. MAXIMUM CROSSPITCH OF ALL SIDEWALKS IS 2%. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.
11. ALL GRADING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE OFFICIAL MANUAL OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG), LATEST EDITION. IN CASE OF CONFLICT BETWEEN REGULATIONS, THE GUIDELINE PROVIDING GREATER ACCESS SHALL APPLY.
12. UTILITIES SHOWN ON THIS PLAN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
13. CONTRACTOR SHALL MAINTAIN OR ADJUST TO PROPOSED FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MAN HOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON UTILITY DRAWINGS OR AS DIRECTED BY LANDSCAPE ARCHITECT.
14. CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
15. MAINTAIN THE INTEGRITY OF THE EXISTING DRAINAGE SYSTEM AT ALL TIMES, UNLESS OTHERWISE NOTED ON CIVIL ENGINEER'S DRAWINGS.
16. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL MEET LINE AND GRADE OF EXISTING CONDITIONS AT LIMIT OF WORK LINE.



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Date: February 5, 2016

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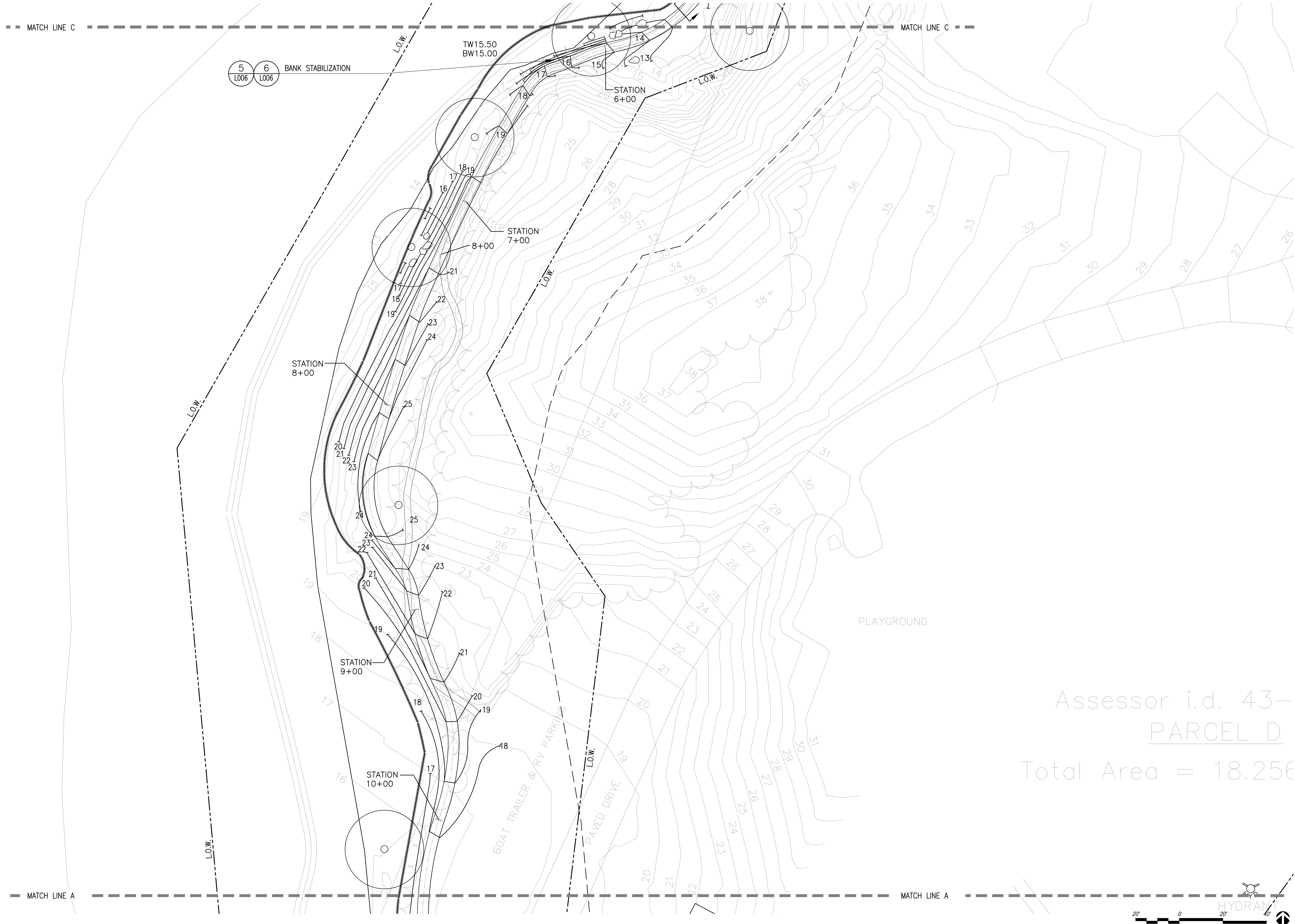
Drawing Title: \_\_\_\_\_

GRADING PLAN

L004



Drawing file: P:\Projects\Winter Island Trails Salem, MA\cad\plans\yr-site.dwg Plot Date: Feb 05, 2016 - 10:48am



WINTER ISLAND TRAIL  
SALEM, MASSACHUSETTS

CITY OF SALEM, MA



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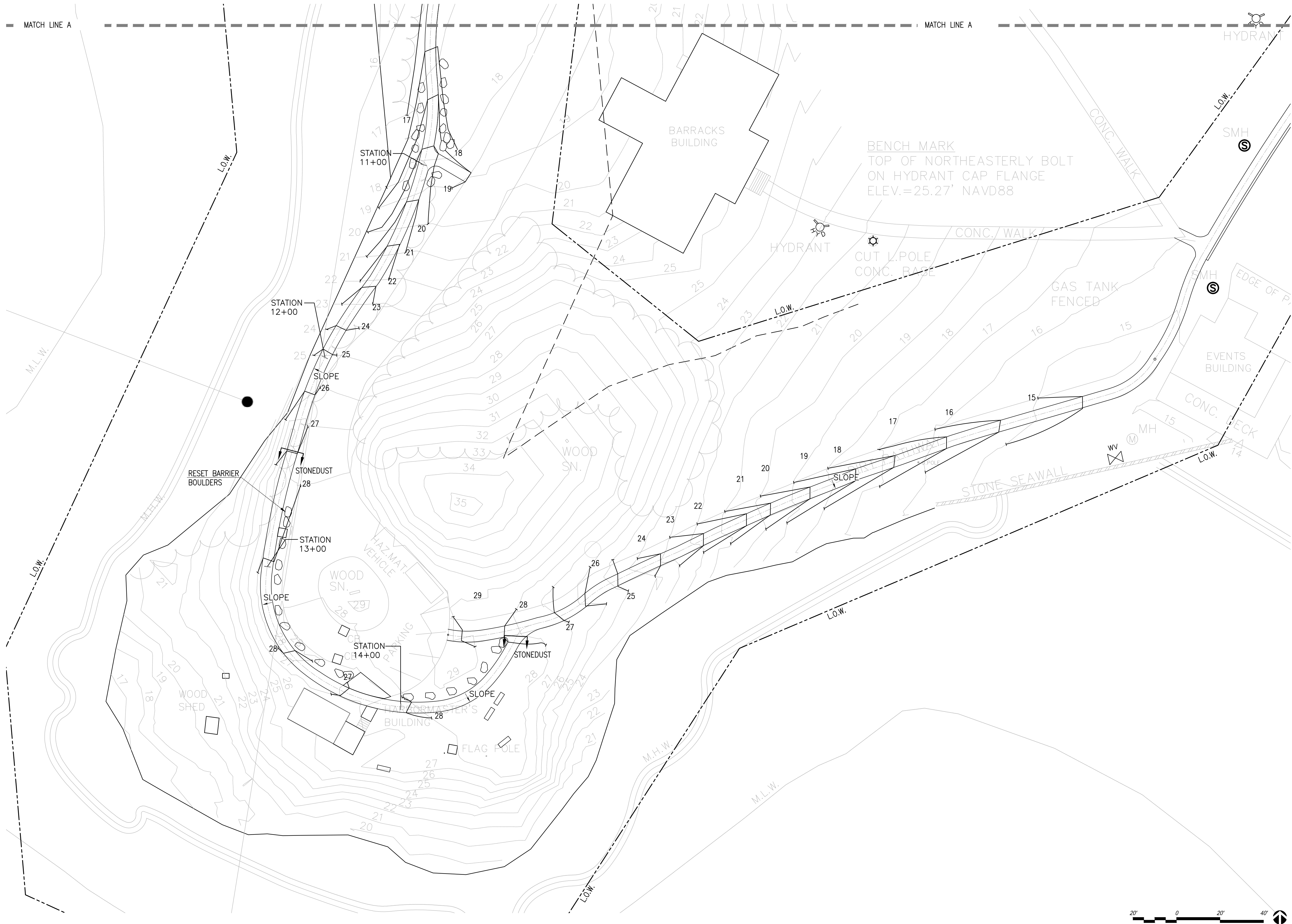


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GRADING PLAN

L004.1

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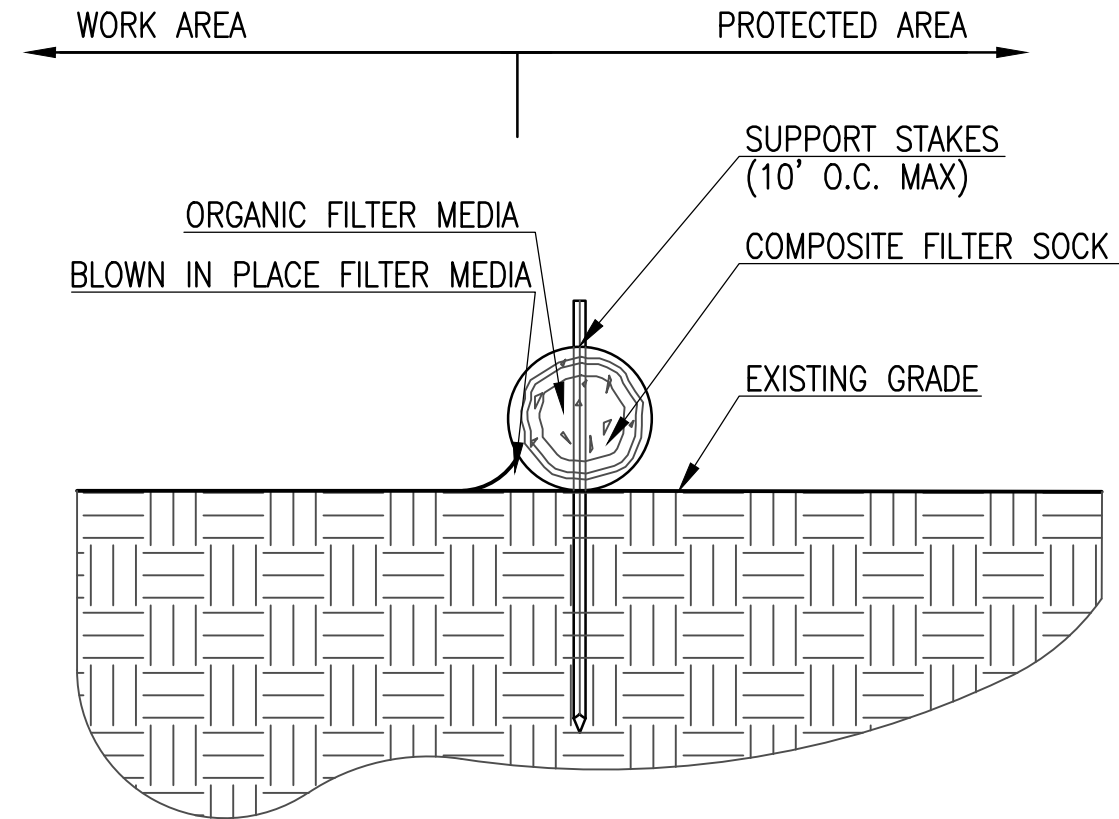
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GRADING PLAN

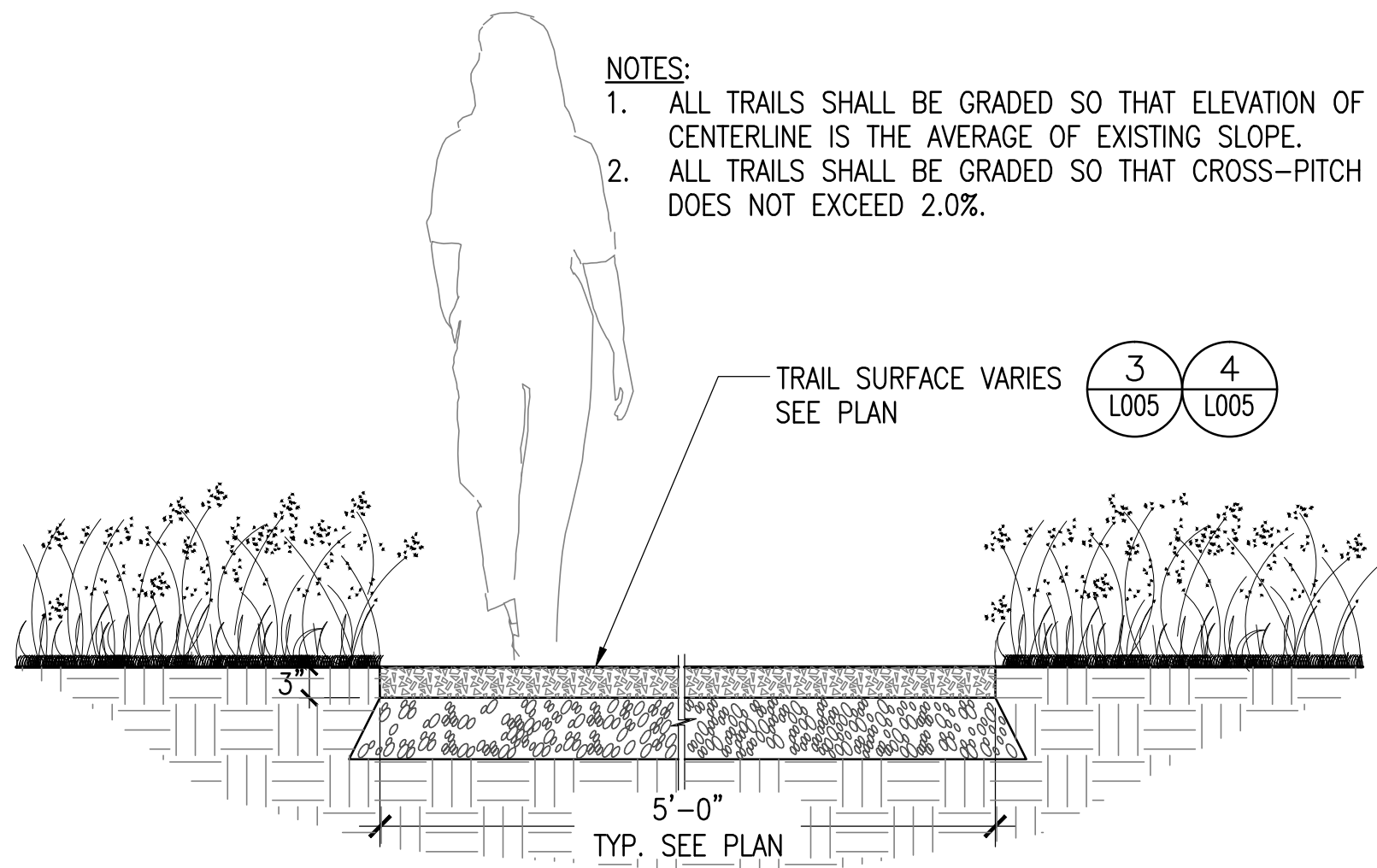
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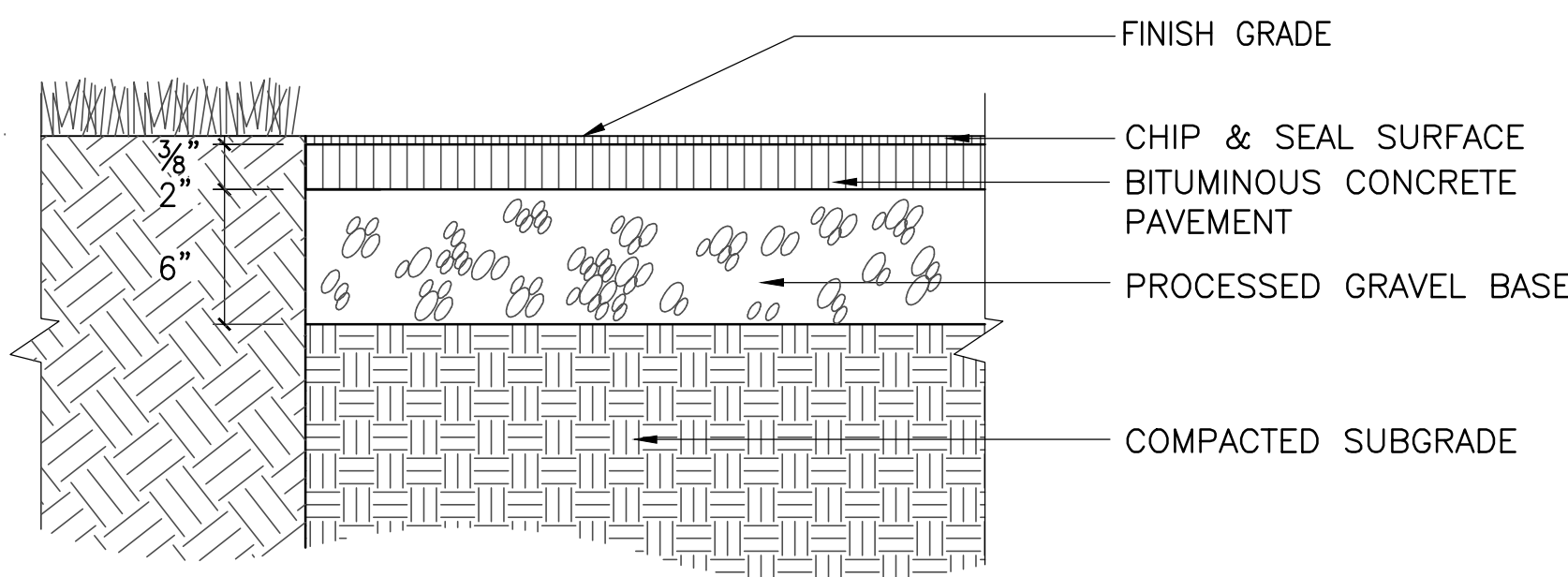
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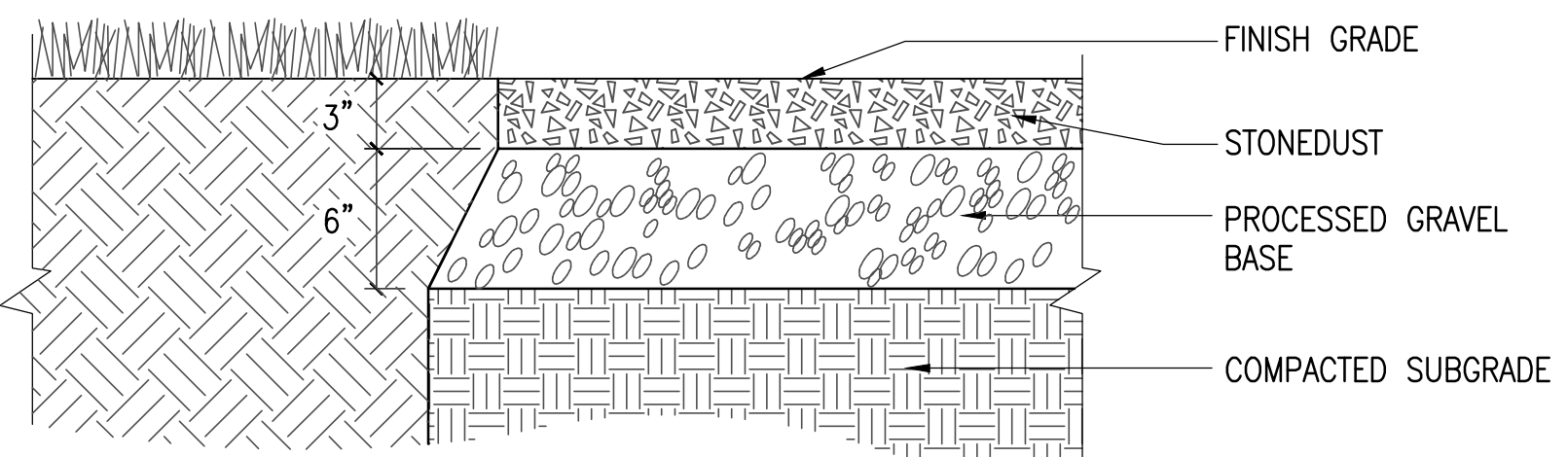
1 EROSION CONTROL - COMPOSITE FILTER SOCK  
SCALE: 3/4"=1'-0"



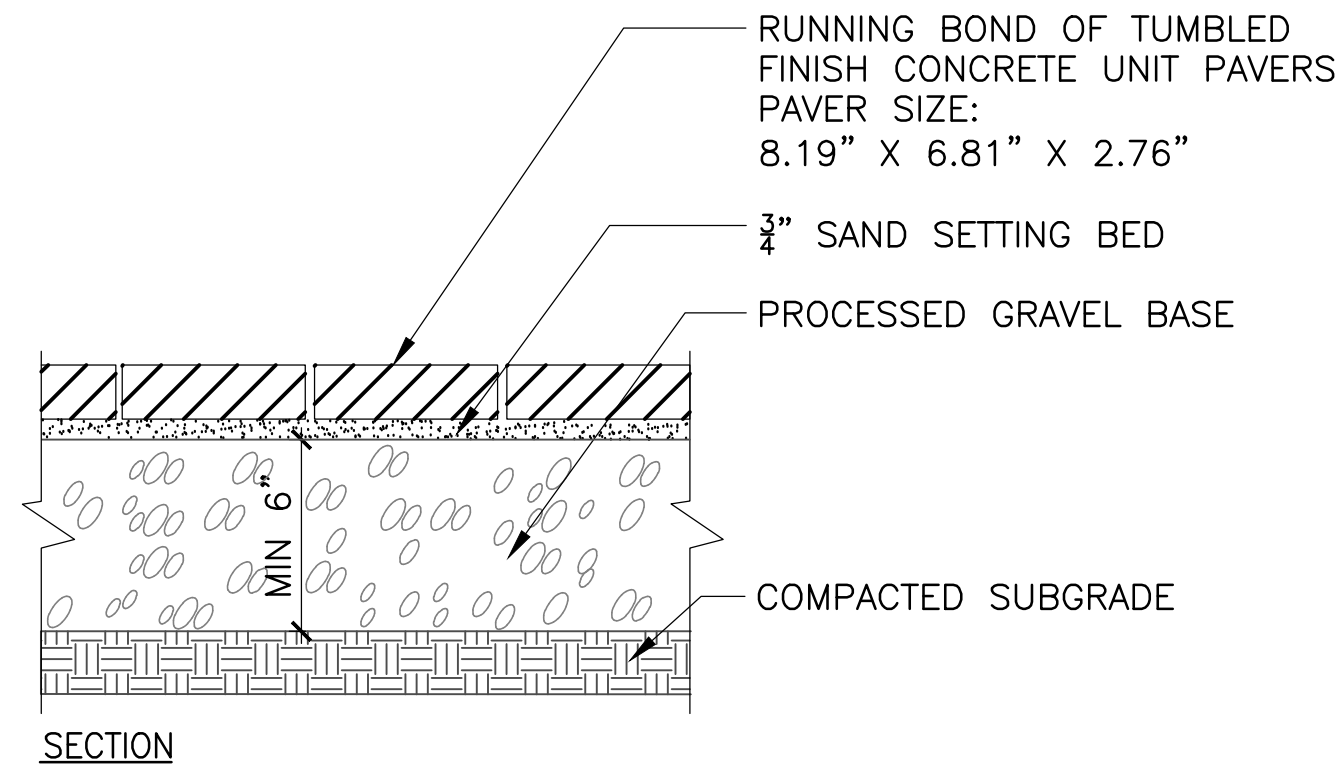
2 TRAIL SURFACE  
SCALE: 3/4"=1'-0"



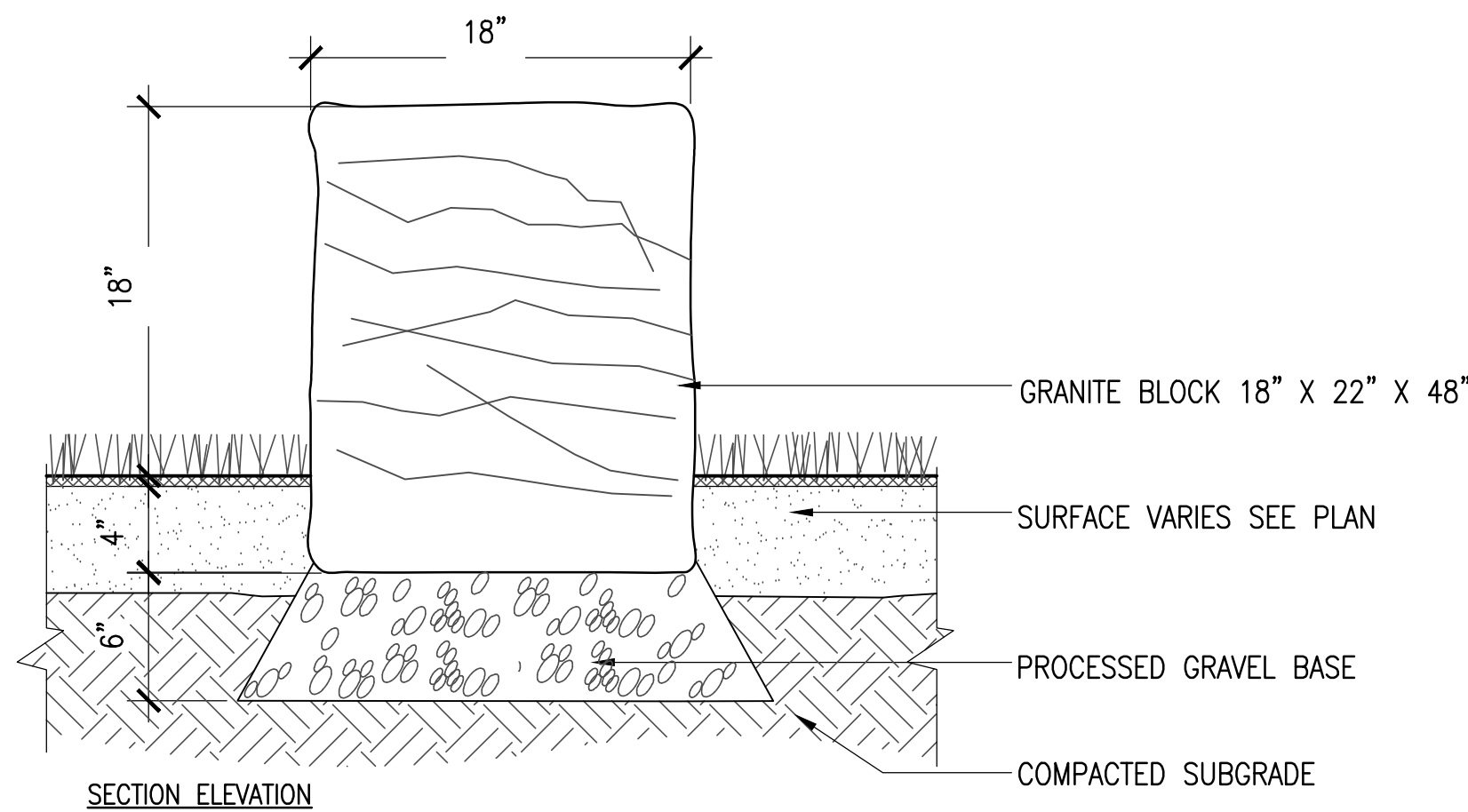
3 ASPHALT WITH CHIP & SEAL SURFACE  
SCALE: 1-1/2"=1'-0"



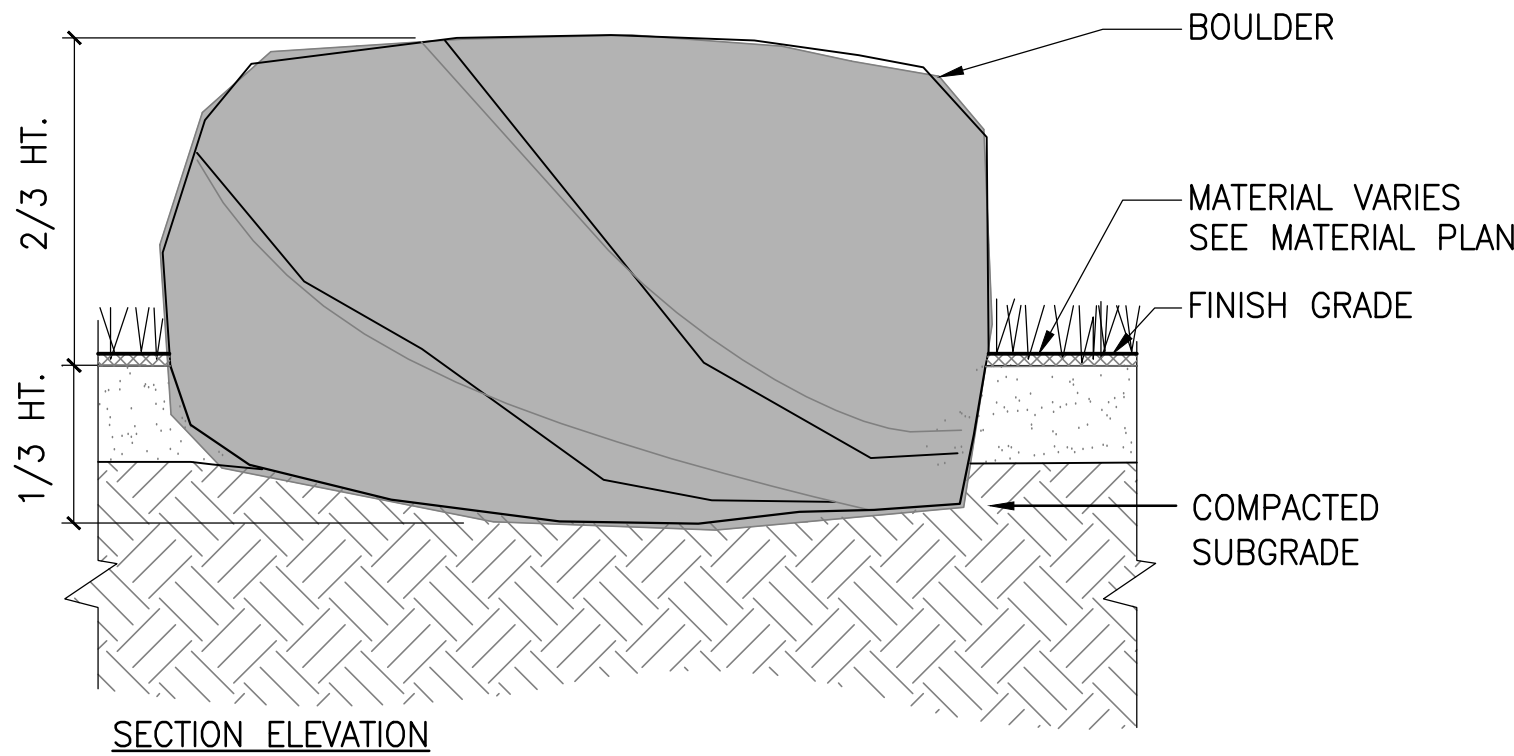
4 STONEDUST TRAIL  
SCALE: 1-1/2"=1'-0"



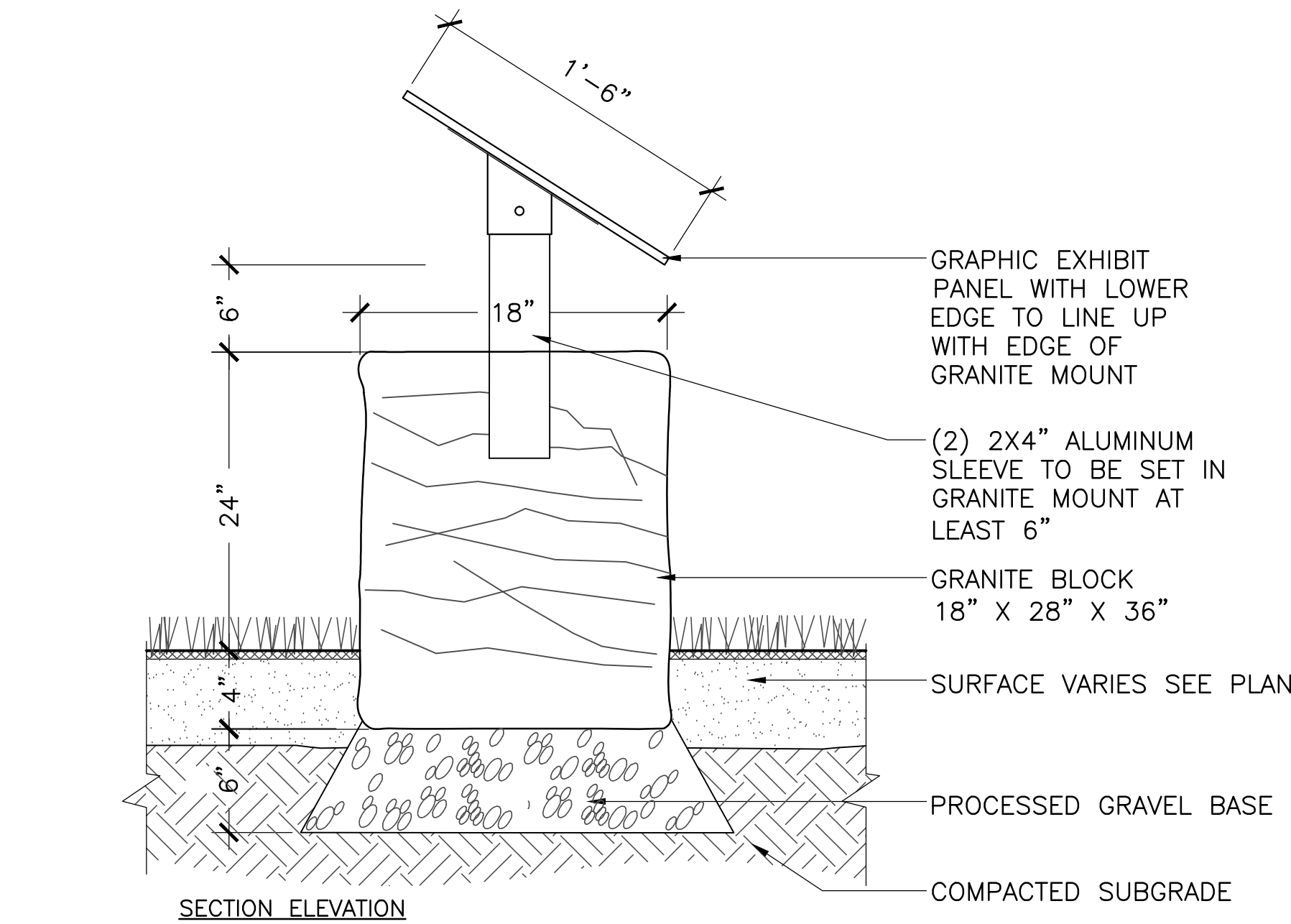
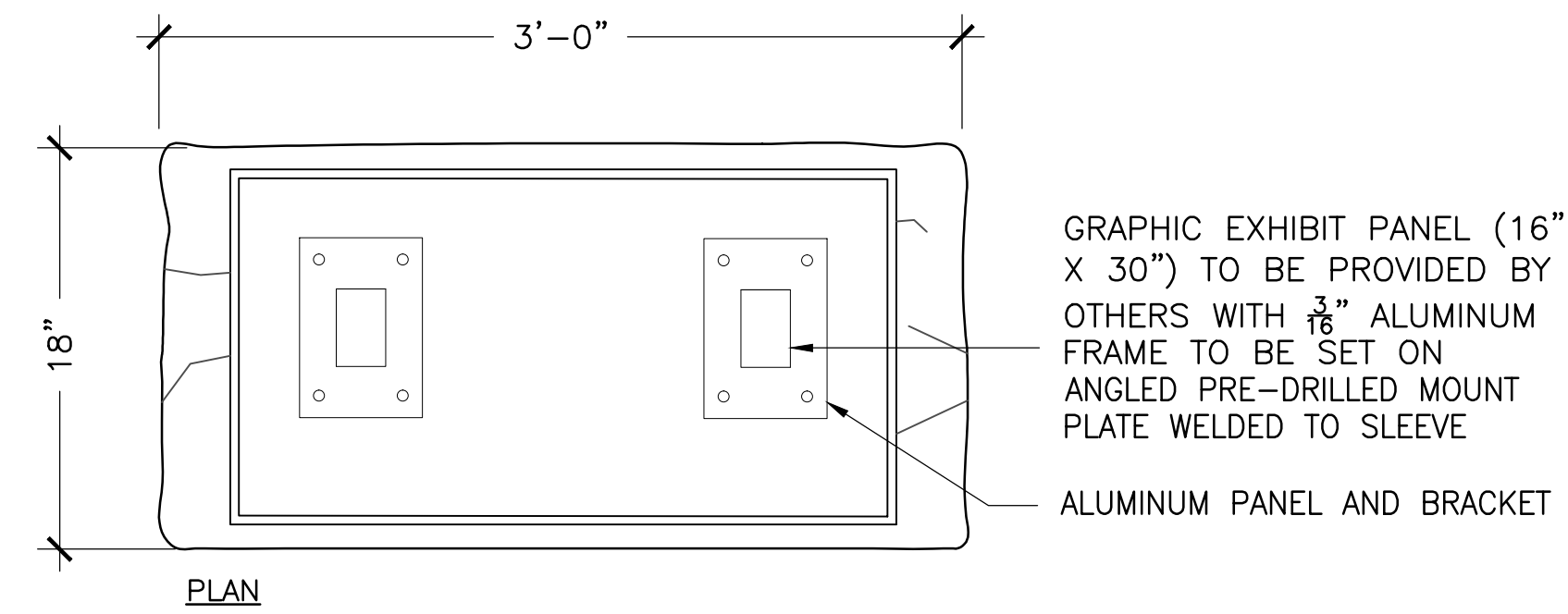
5 CONCRETE UNIT PAVERS  
SCALE: 1- 1/2"=1'-0"



6 GRANITE BENCH  
SCALE: 1-1/2"=1'-0"



7 PLACED BOULDER  
SCALE: 1-1/2"=1'-0"



8 INTERPRETIVE SIGN  
SCALE: 1-1/2"=1'-0"

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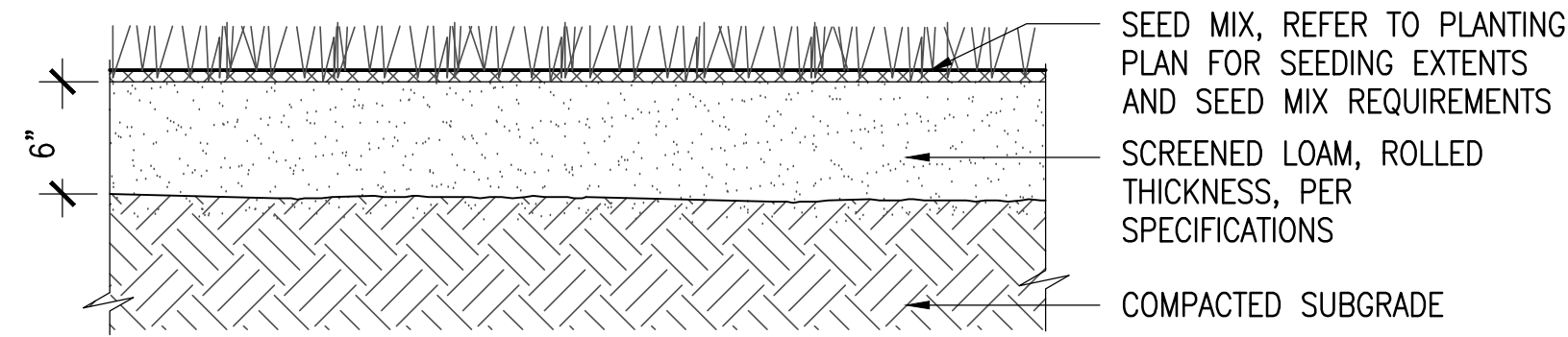
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Drawing Title:

LANDSCAPE DETAILS

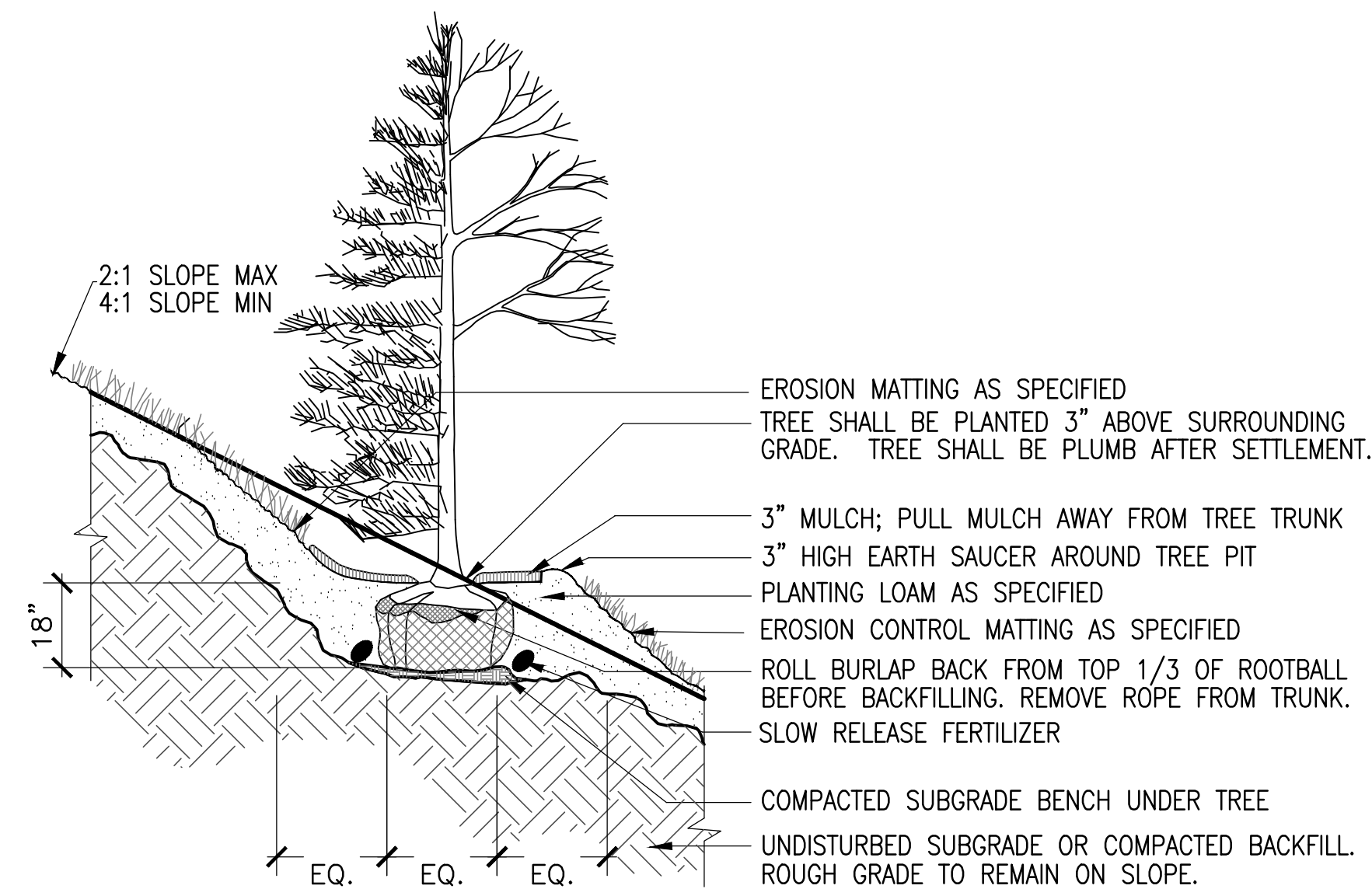
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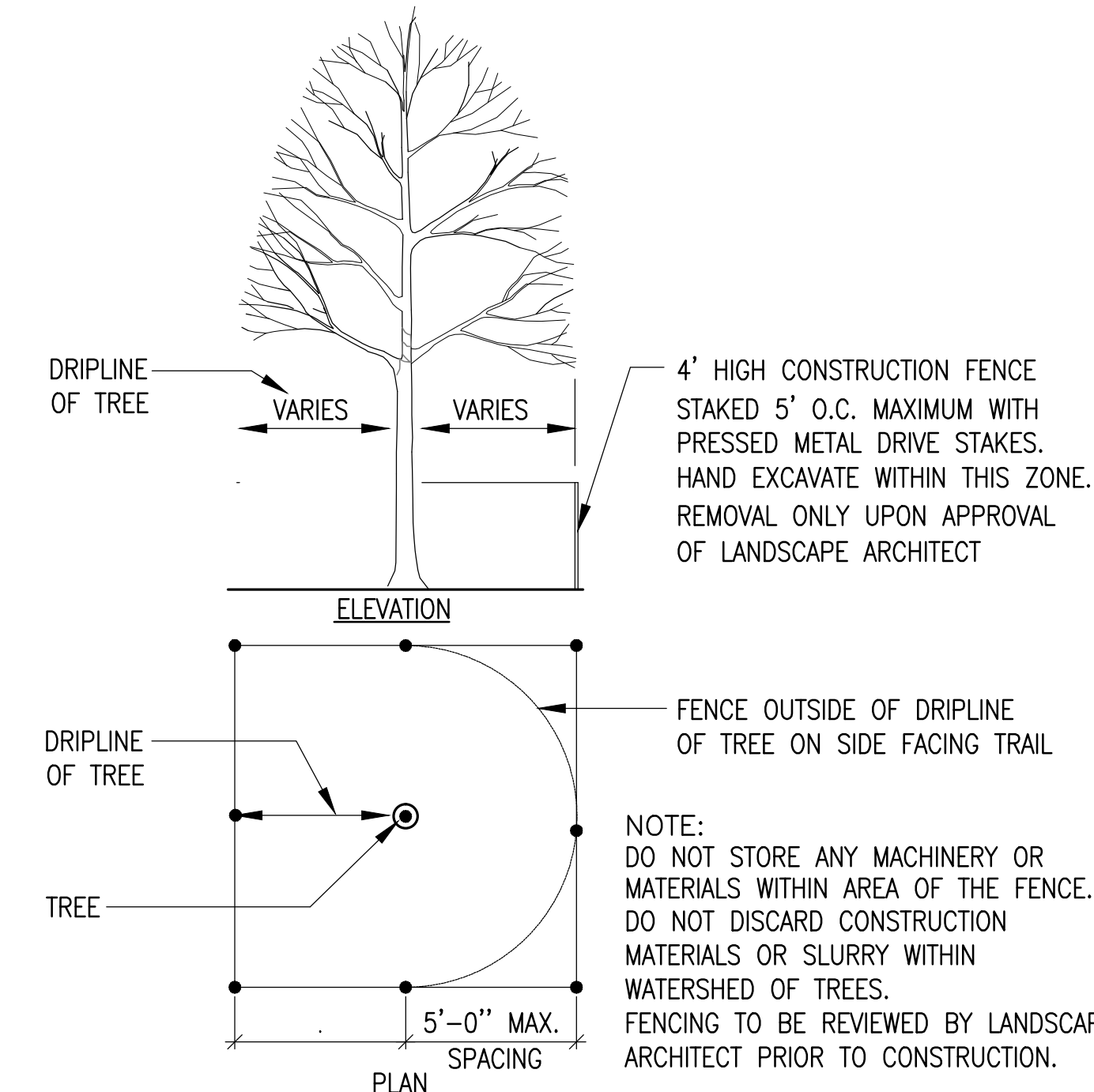
1 SEEDING

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



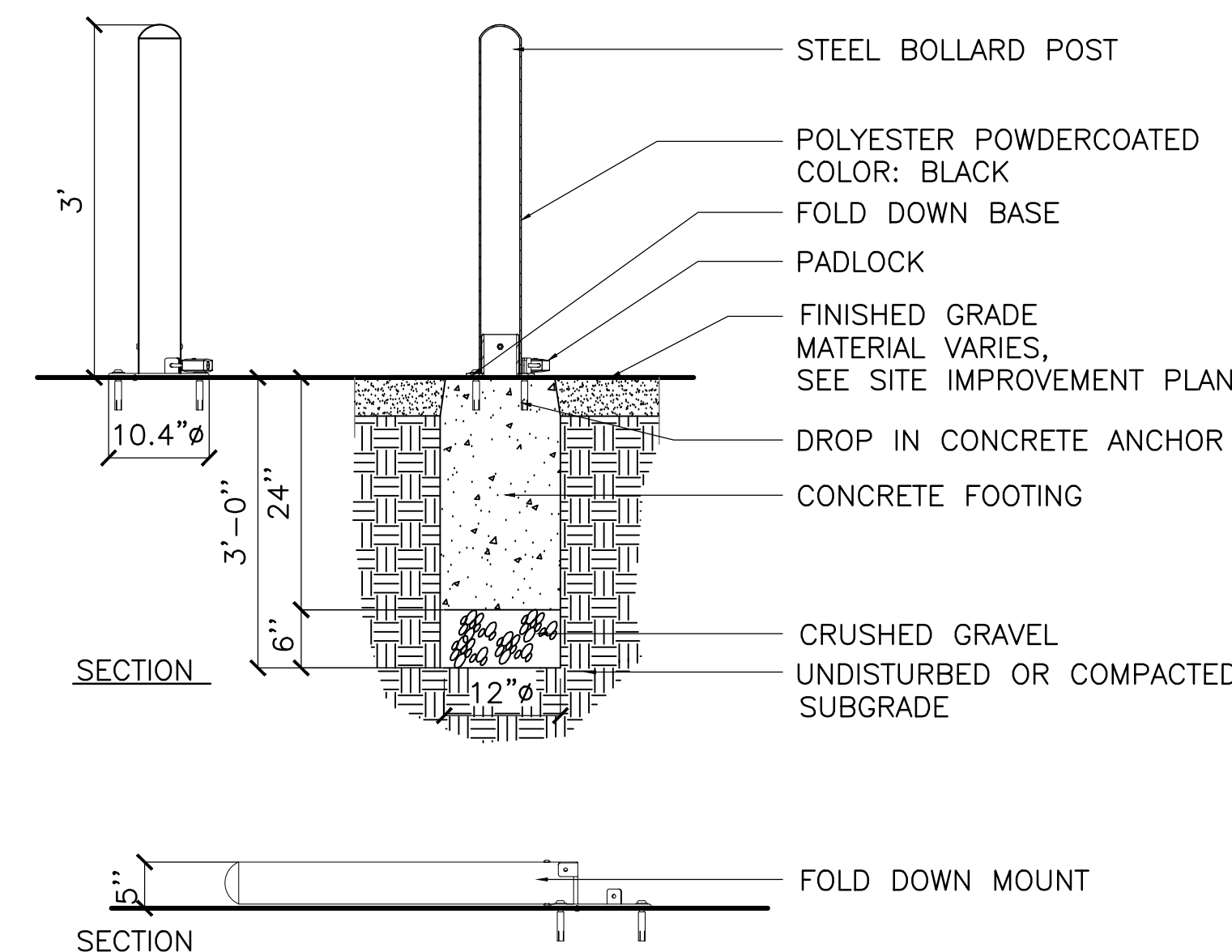
2 ADD ALTERNATE #2 - TREE PLANTING ON SLOPE

N.T.S.



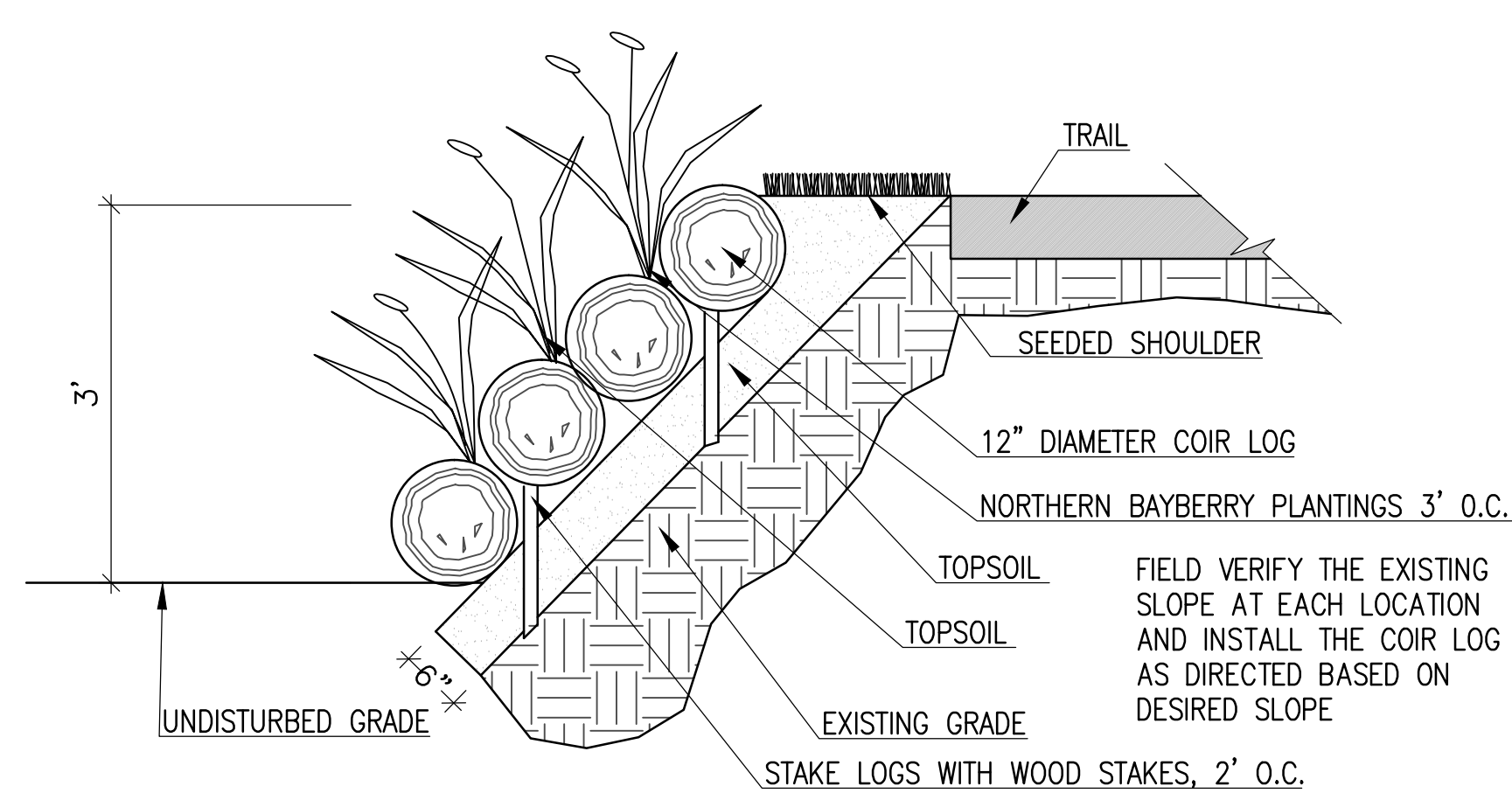
3 TREE/SITE PROTECTION FENCING

SCALE: N.T.S.



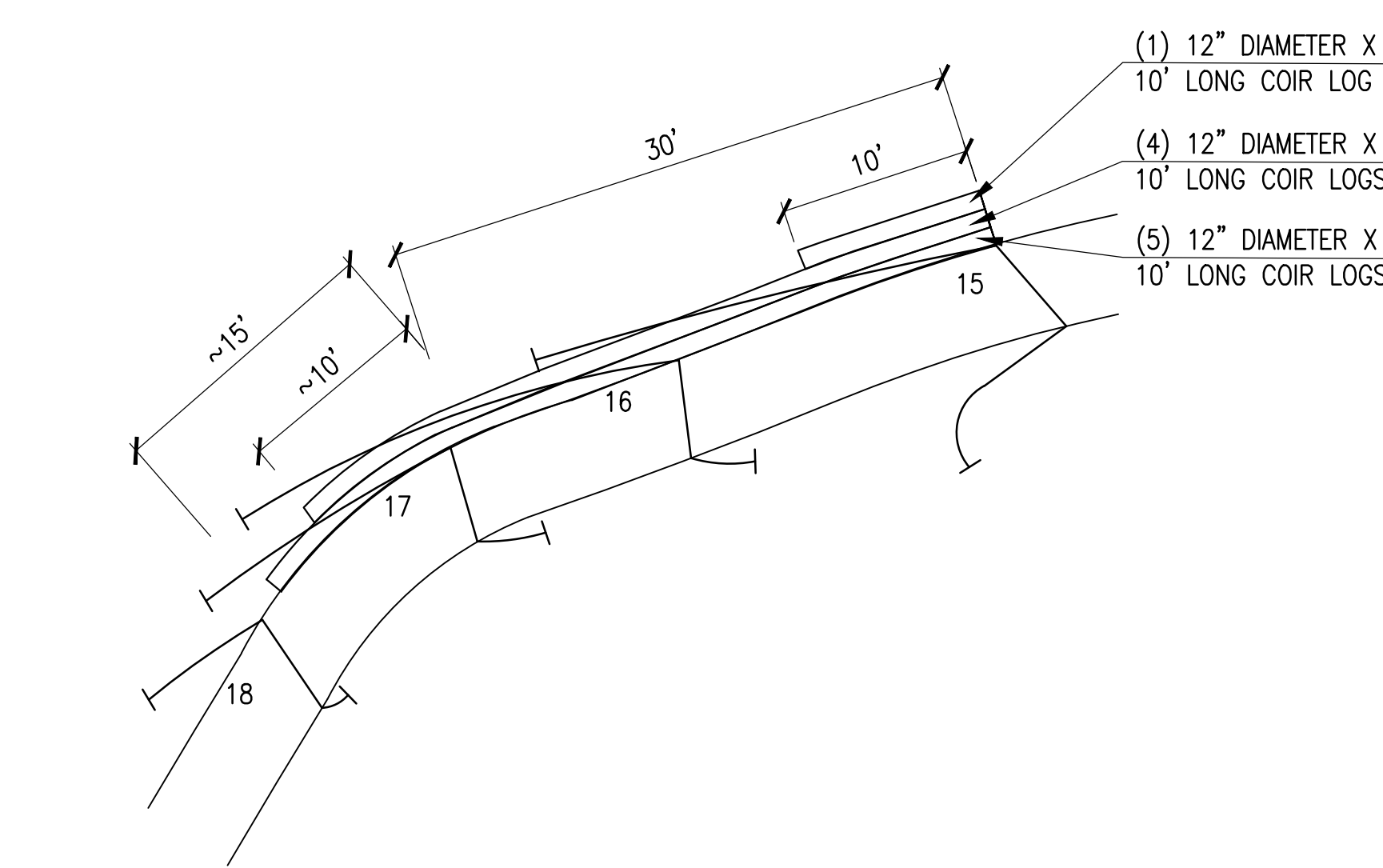
4 REMOVABLE BOLLARD

SCALE: 1/16"=1'-0"



5 BANK STABILIZATION

SCALE: 3/4"=1'-0



6 BANK STABILIZATION - COIR LOG LAYOUT

SCALE: 1/8"=1'-0"

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Project: WINTER ISLAND TRAIL	
Drawn By: SW	Checked By: KZ
Date: February 5, 2016	
Scale: AS SHOWN	
Drawing Title:	

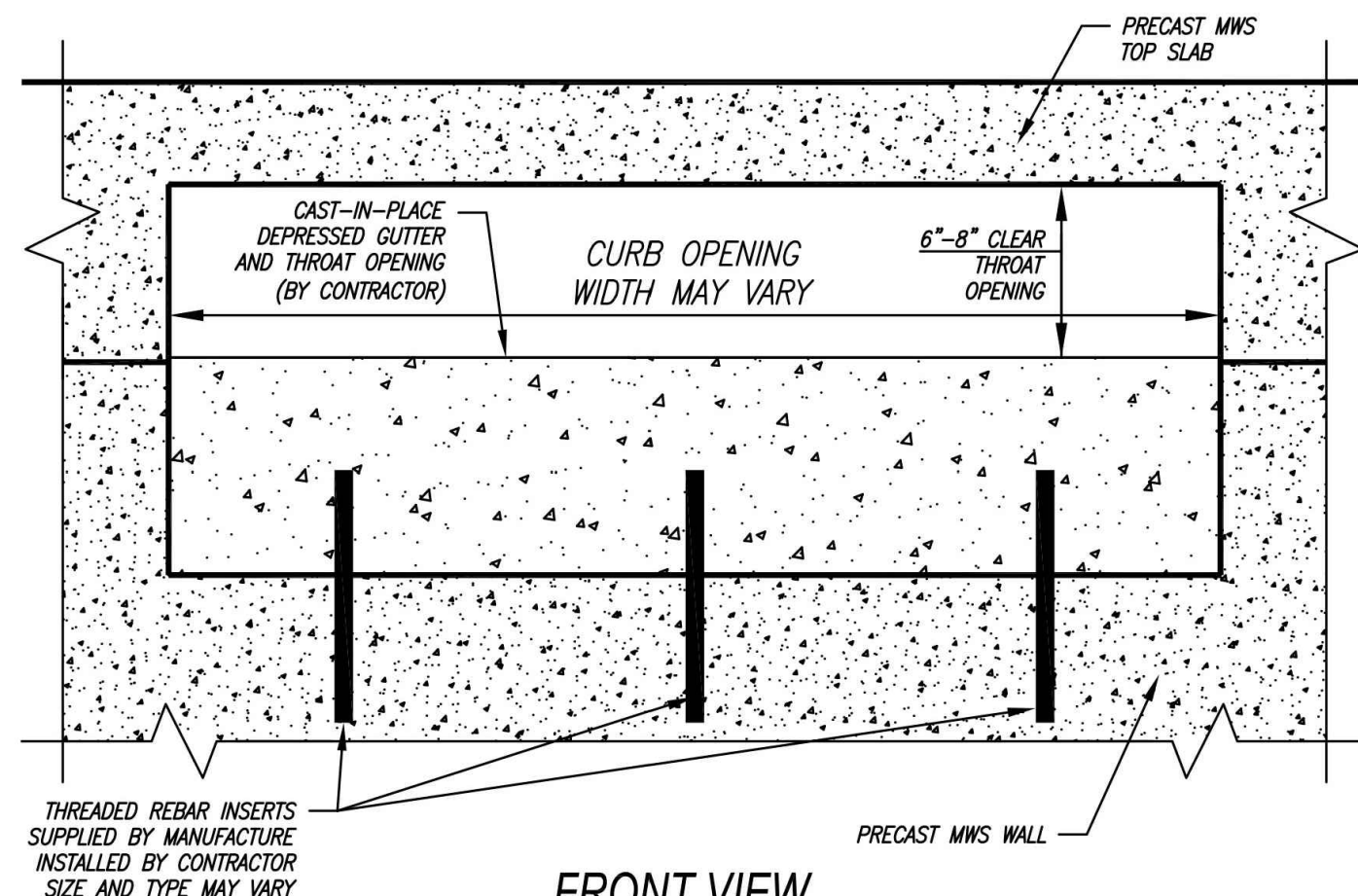
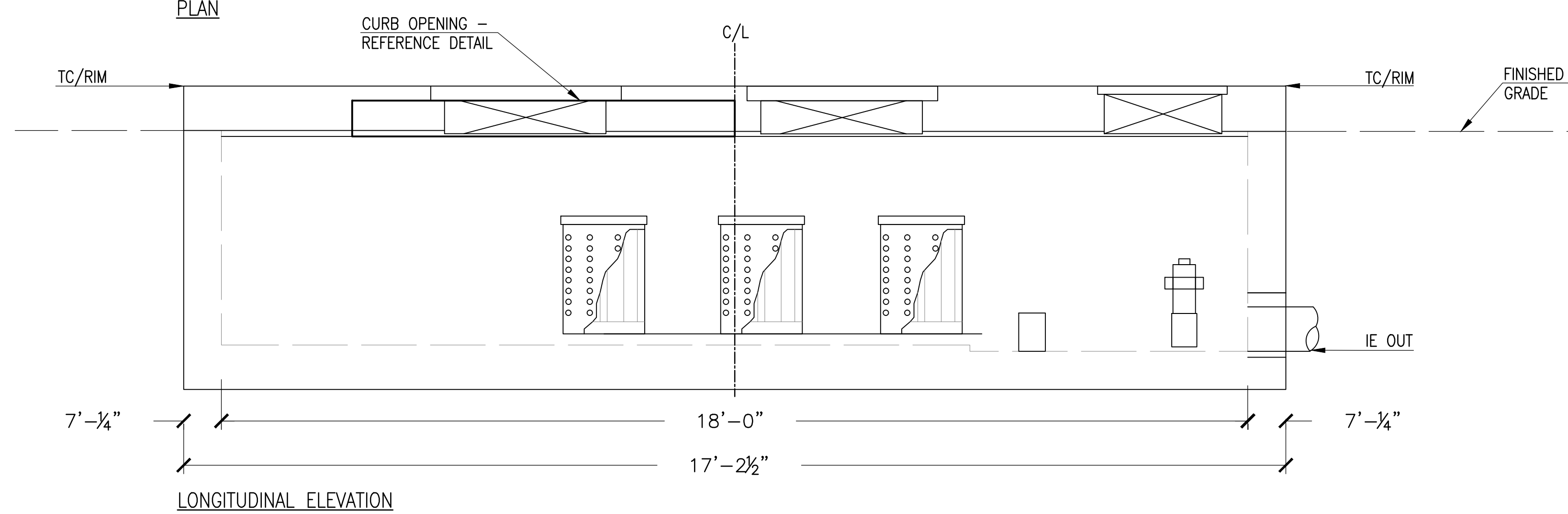
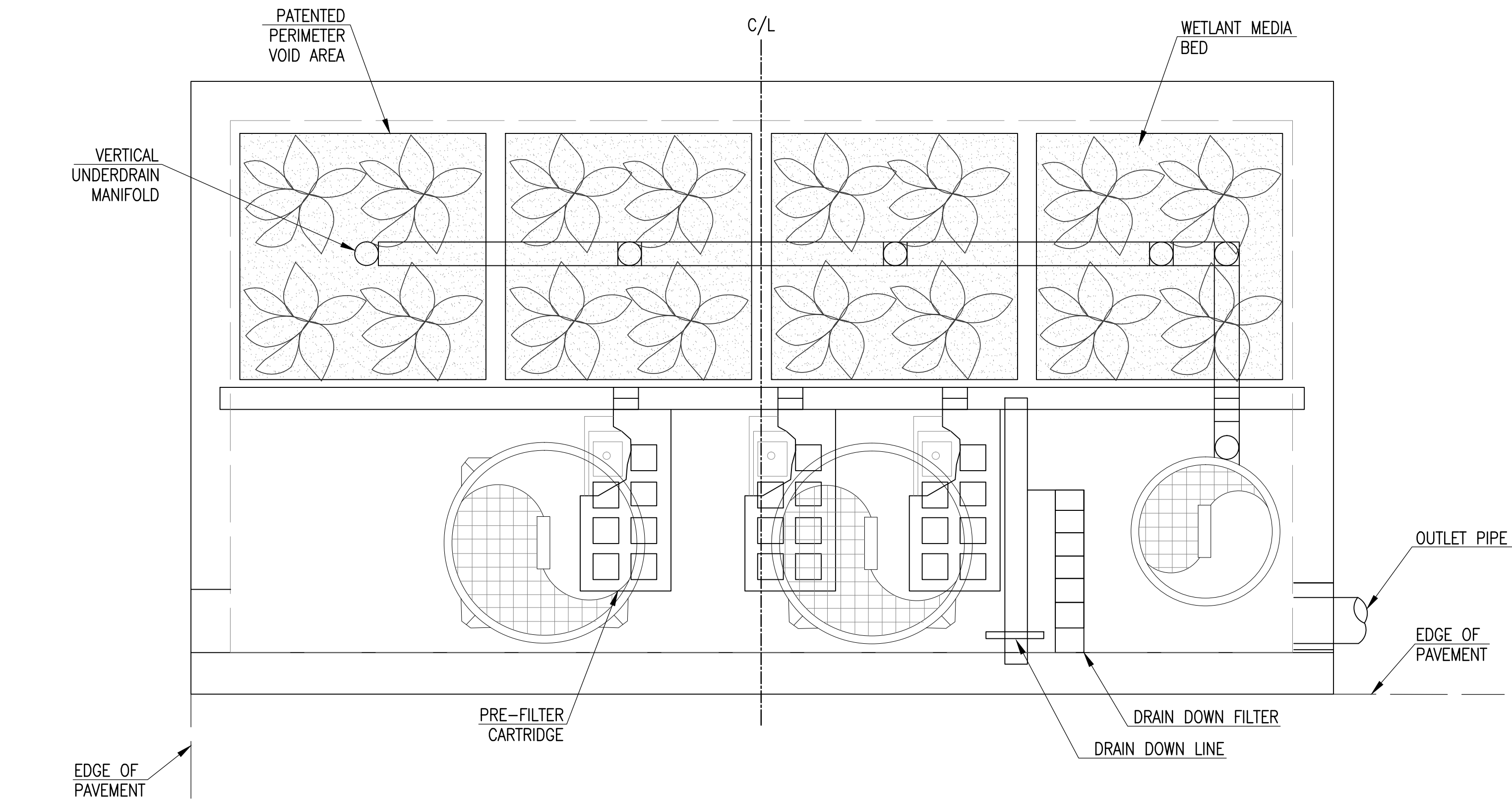
Drawing Title:

LANDSCAPE DETAILS

L006

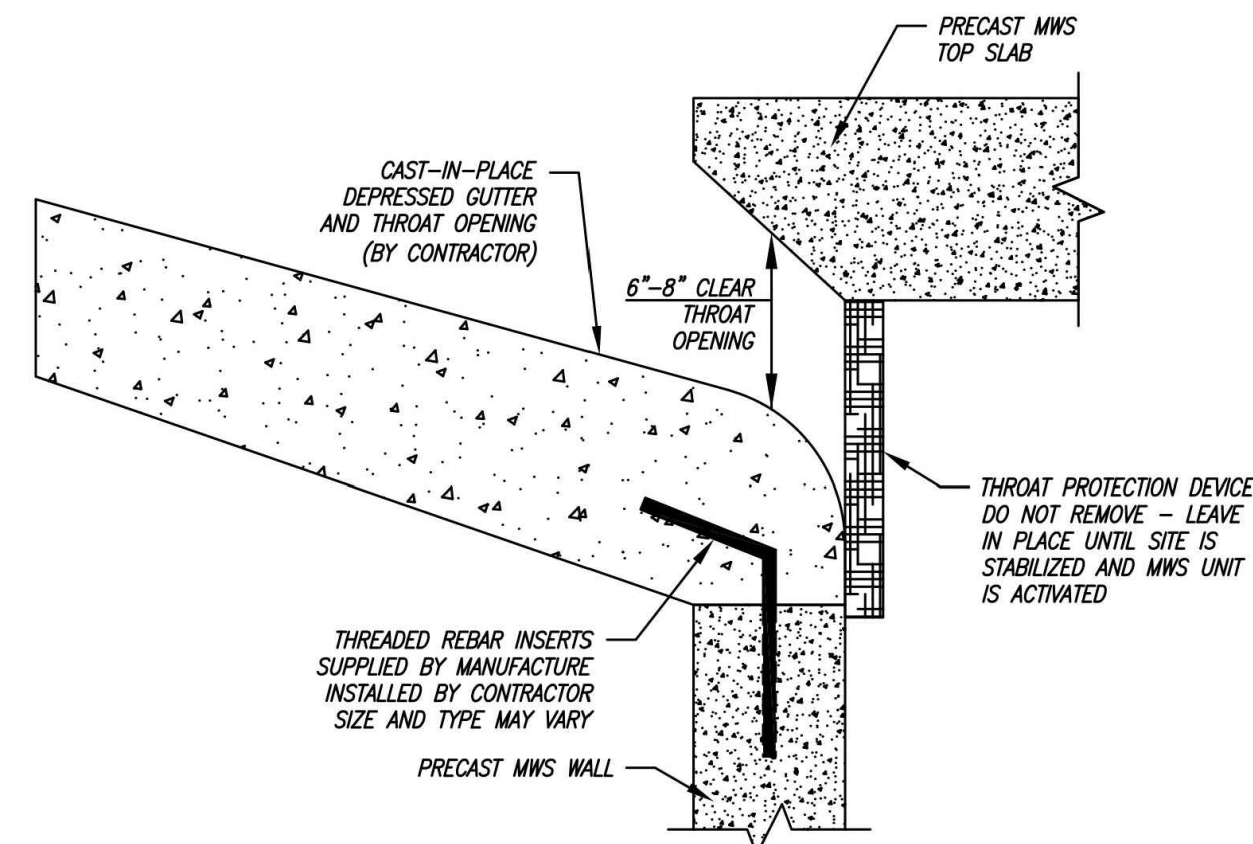


Drawing file: P:\Projects\Winter Island Trails Salem, MA\cadd\details\yr-site\_detail.dwg Plot Date: Feb 05, 2016 - 10:48am

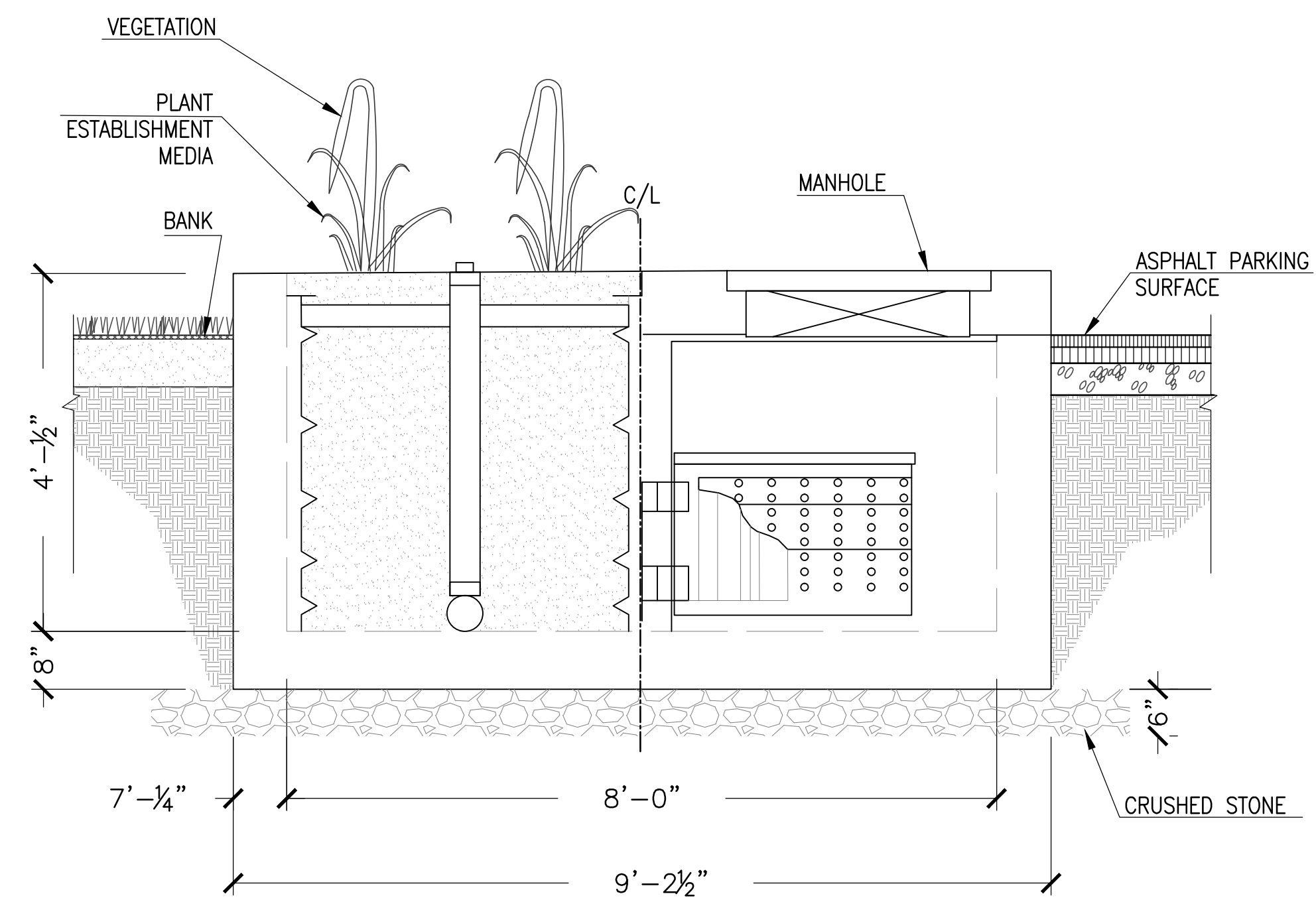


NOT TO SCALE

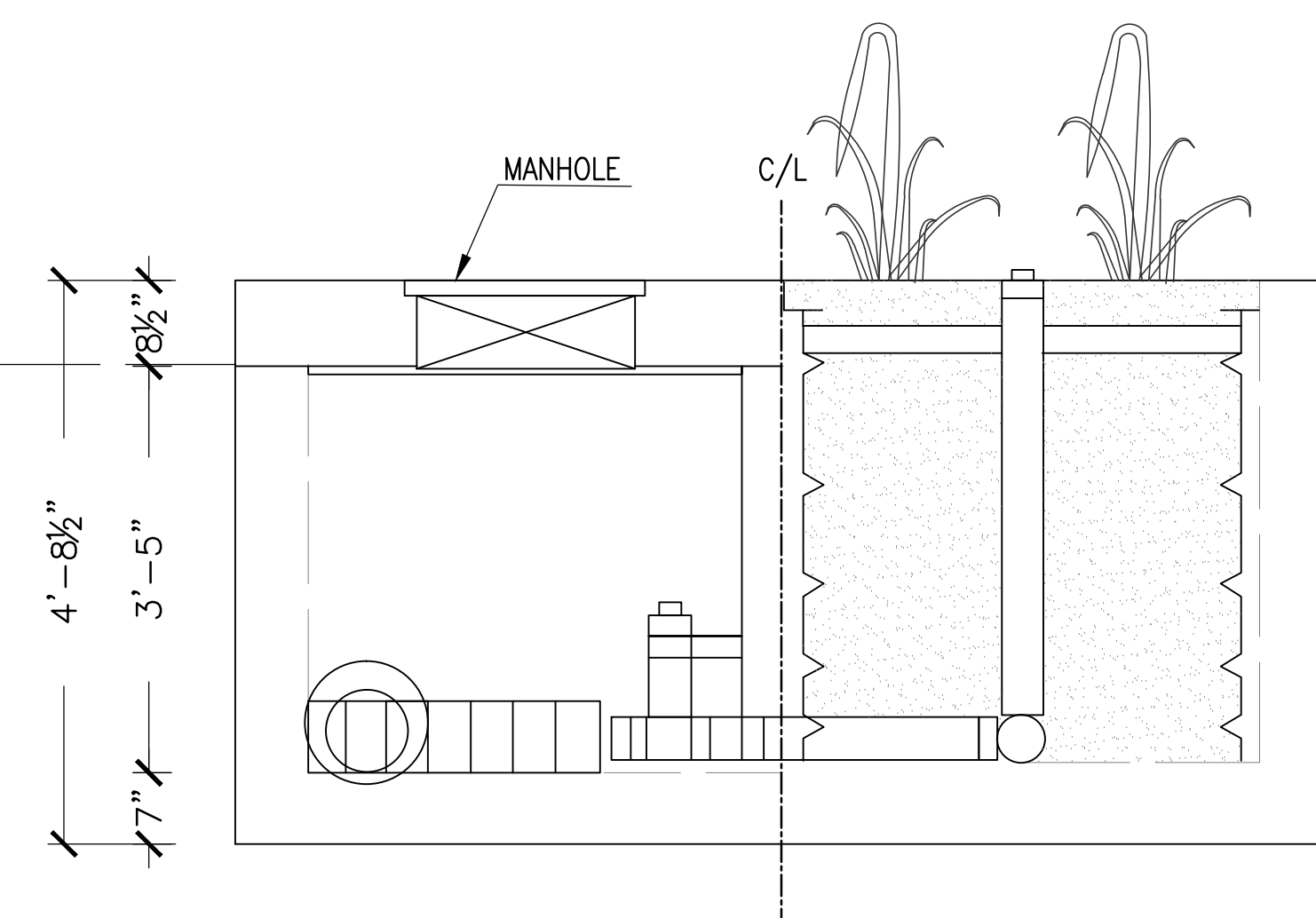
STANDARD MODULAR WETLAND CURB OPENING



STANDARD MODULAR WETLAND CURB OPENING



CROSS SECTION - LEFT END VIEW (BIOFILTRATION/PRETREATMENT)



CROSS SECTION - RIGHT END VIEW (DISCHARGE/BIOFILTRATION)

- NOTES:
- ALL PIPING IS HIGH DENSITY POLYETHYLENE.
  - THE VAULT IS PRECAST CONCRETE.
  - FILTER NETTING IS 100% POLYESTER WITH A NO. 16 SIEVE SIZE.

## WINTER ISLAND TRAIL

SALEM, MASSACHUSETTS

CITY OF SALEM, MA



NO.	REVISION	DATE
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**kzla**

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36 Bromfield Street Suite 202 617 451-1018 Tel  
Boston, MA 02108



Job Number:

Project: WINTER ISLAND TRAIL

Drawn By: SW

Checked By: KZ

Date: February 5, 2016

Scale: AS SHOWN

Drawing Title:

LANDSCAPE DETAILS

L007

1 ADD ALTERNATE #4 - STORMWATER BIOFILTRATION SYSTEM

SCALE: 3/4"=1'-0"