

City of Portsmouth, New Hampshire

DEPARTMENT OF COMMUNITY DEVELOPMENT

Plans for the Construction of

ROCK STREET PARK IMPROVEMENTS

City of Portsmouth, New Hampshire
John P. Bohenko, City Manager

Community Development Coordinator
Elise D. Annunziata

Plans Prepared By:



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ROSS ENGINEERING
Civil/Structural Engineering
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(603) 433-7560

INDEX OF DRAWINGS

- E-1 Existing Conditions Plan
- D-1 Demolition Plan
- L-1 Landscape Plan
- L-2 Hardscape Details
- L-3 Planting Details
- C-1 Layout and Utilities Plan
- C-2 Grading and Drainage Plan
- C-3 Details Sheet A
- C-4 Details Sheet B
- C-5 Erosion Control Plan

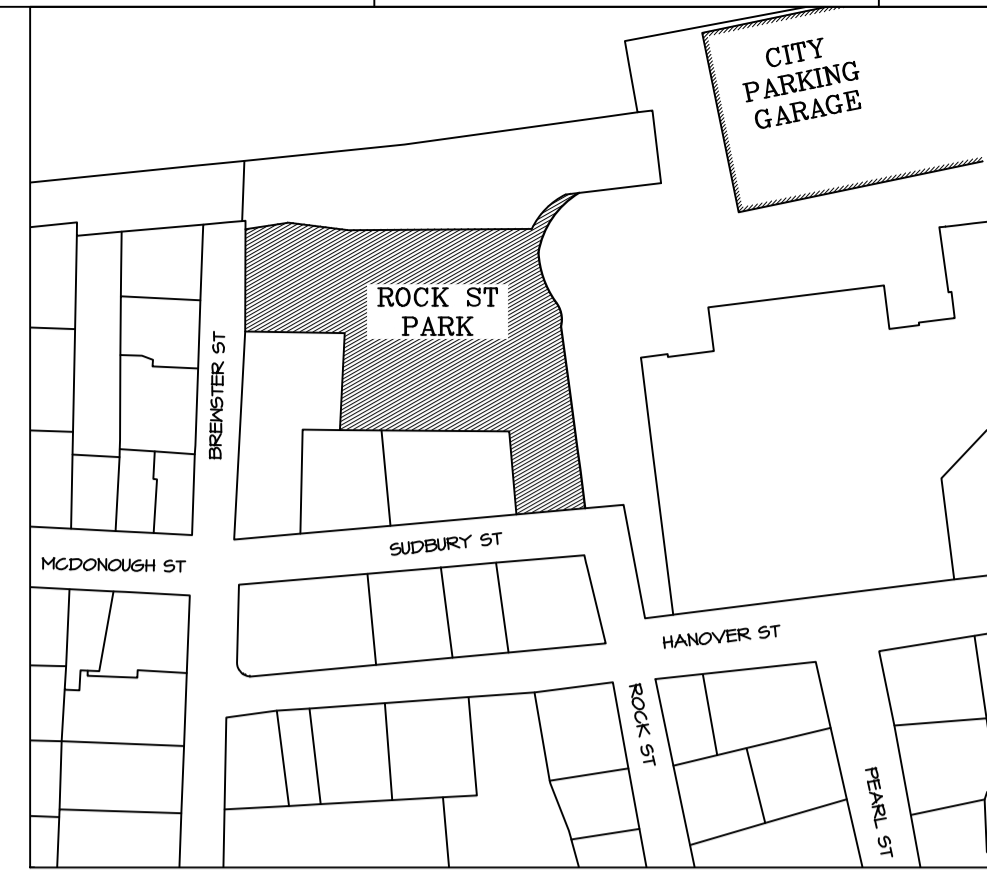
PROJECT SITE



LOCATION PLAN

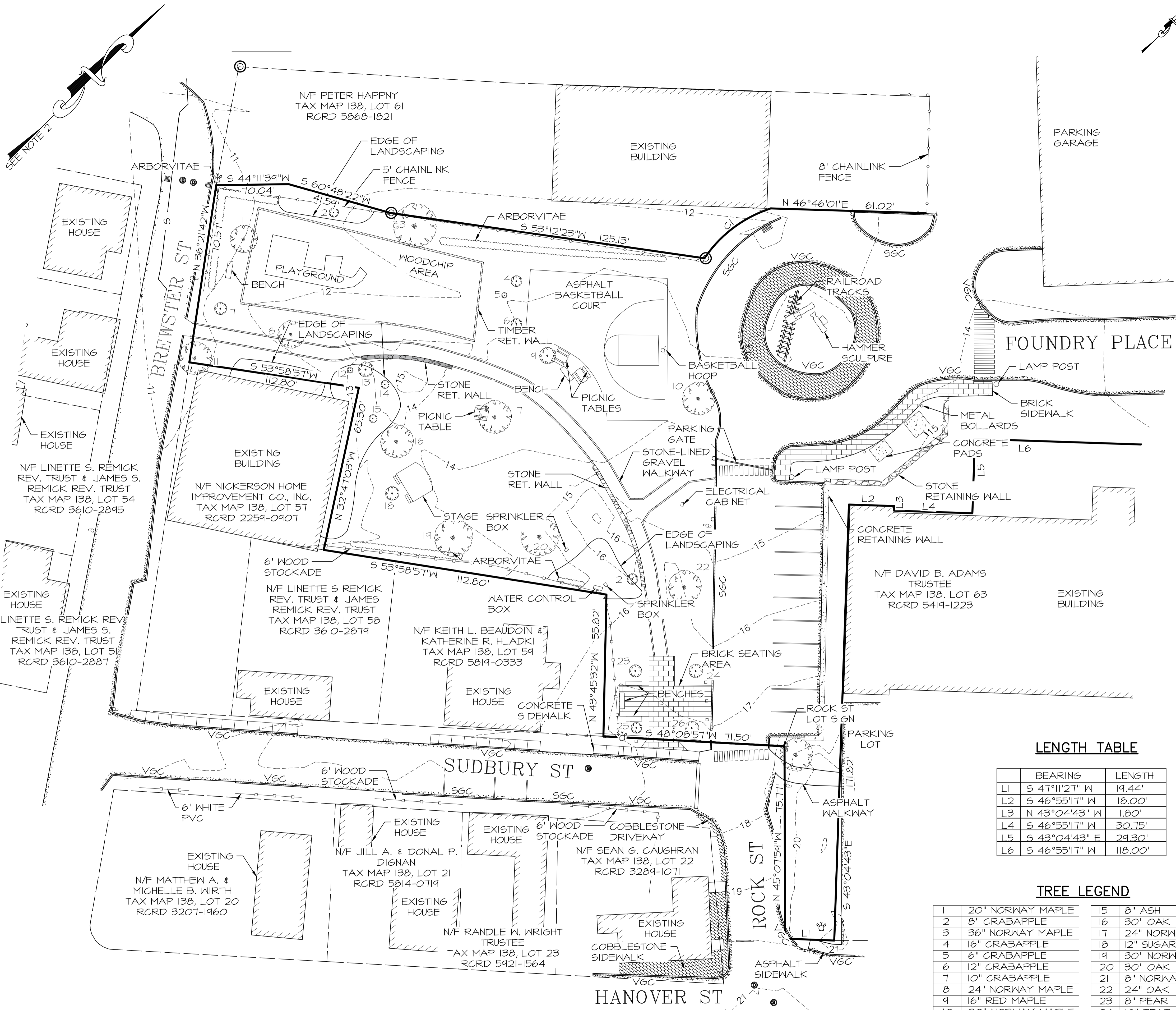
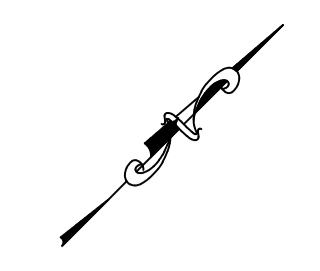
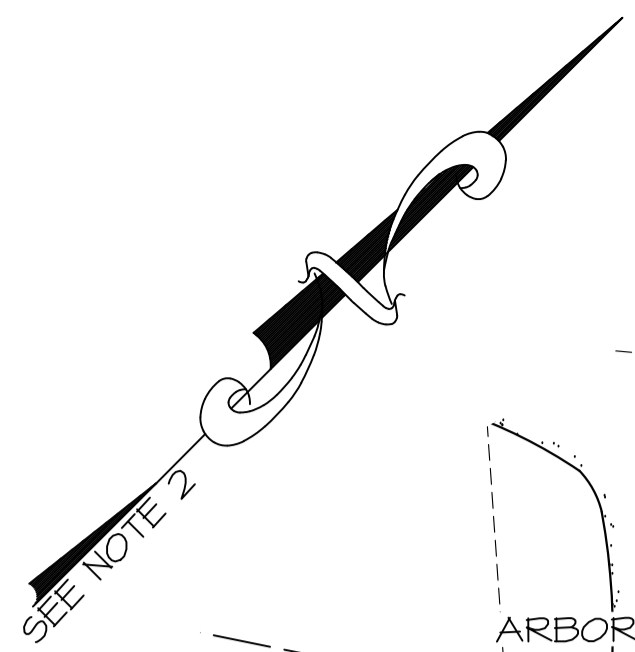
A
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**LOCUS PLAN
N.T.S.**

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NOTES

- OWNER OF RECORD:
CITY OF PORTSMOUTH
TAX MAP 138, LOT 60
1 JUNKINS AVE
PORTSMOUTH, NH 03801
RCRD: 5848-0666
AREA: 60,532 SF, 1.39 ACRES
- BASIS OF BEARING HELD FROM PLAN REFERENCE #1.
- THE PARCEL IS NOT WITHIN A FEMA FLOOD ZONE, AS PER FLOOD INSURANCE RATE MAP #33015C0254E, PANEL 330139, DATED MAY 17, 2005.

REFERENCE PLANS

- "STANDARD BOUNDARY SURVEY" BY AMBIT ENGINEERING, INC. DATED SEPTEMBER, 2015. RCRD D-40490
- "LOT LINE RELOCATION AND EASEMENT PLAN" BY AMBIT ENGINEERING, INC. DATED MARCH, 2017. RCRD D-40491

LEGEND

- 100-- EXISTING CONTOUR
- PROPOSED CONTOUR
- 100x00 SPOT ELEVATION
- ⊙ MONUMENT FOUND
- UTILITY POLE
- FENCE
- CHAIN LINK FENCE
- GRANITE CURB
- ☼ FIRE HYDRANT
- ▨ COBBLESTONE
- ▤ BRICK
- CATCH BASIN
- ⊙ DRAIN MANHOLE
- ⊙ SEWER MANHOLE
- SEWER
- WATER
- ⊕ GAS VALVE
- ⊕ WATER STOP

LENGTH TABLE

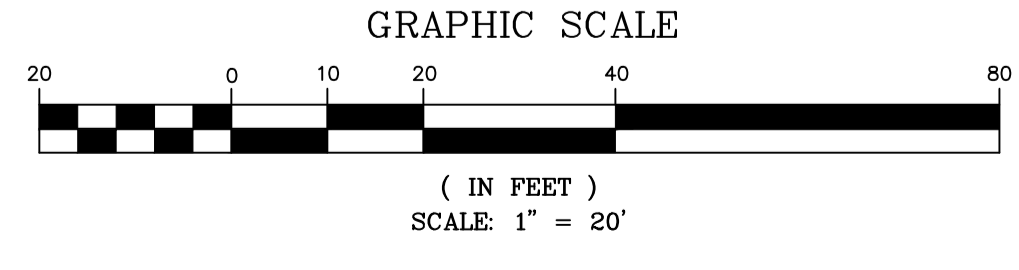
	BEARING	LENGTH
L1	S 47°11'27" W	19.44'
L2	S 46°55'17" W	18.00'
L3	N 43°04'43" W	1.80'
L4	S 46°55'17" W	30.75'
L5	S 43°04'43" E	29.30'
L6	S 46°55'17" W	118.00'

TREE LEGEND

1	20" NORWAY MAPLE	15	8" ASH
2	8" CRABAPPLE	16	30" OAK
3	36" NORWAY MAPLE	17	24" NORWAY MAPLE
4	16" CRABAPPLE	18	12" SUGAR MAPLE
5	6" CRABAPPLE	19	30" NORWAY MAPLE
6	12" CRABAPPLE	20	30" OAK
7	10" CRABAPPLE	21	8" NORWAY MAPLE
8	24" NORWAY MAPLE	22	24" OAK
9	16" RED MAPLE	23	8" PEAR
10	20" NORWAY MAPLE	24	10" PEAR
11	30" SUGAR MAPLE	25	7" PEAR
12	6" APPLE	26	10" PEAR
13	10" CHERRY	27	24" OAK
14	6" OAK		

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	50.00'	33.31'	32.75'	S 08°27'35" W	38°14'11"

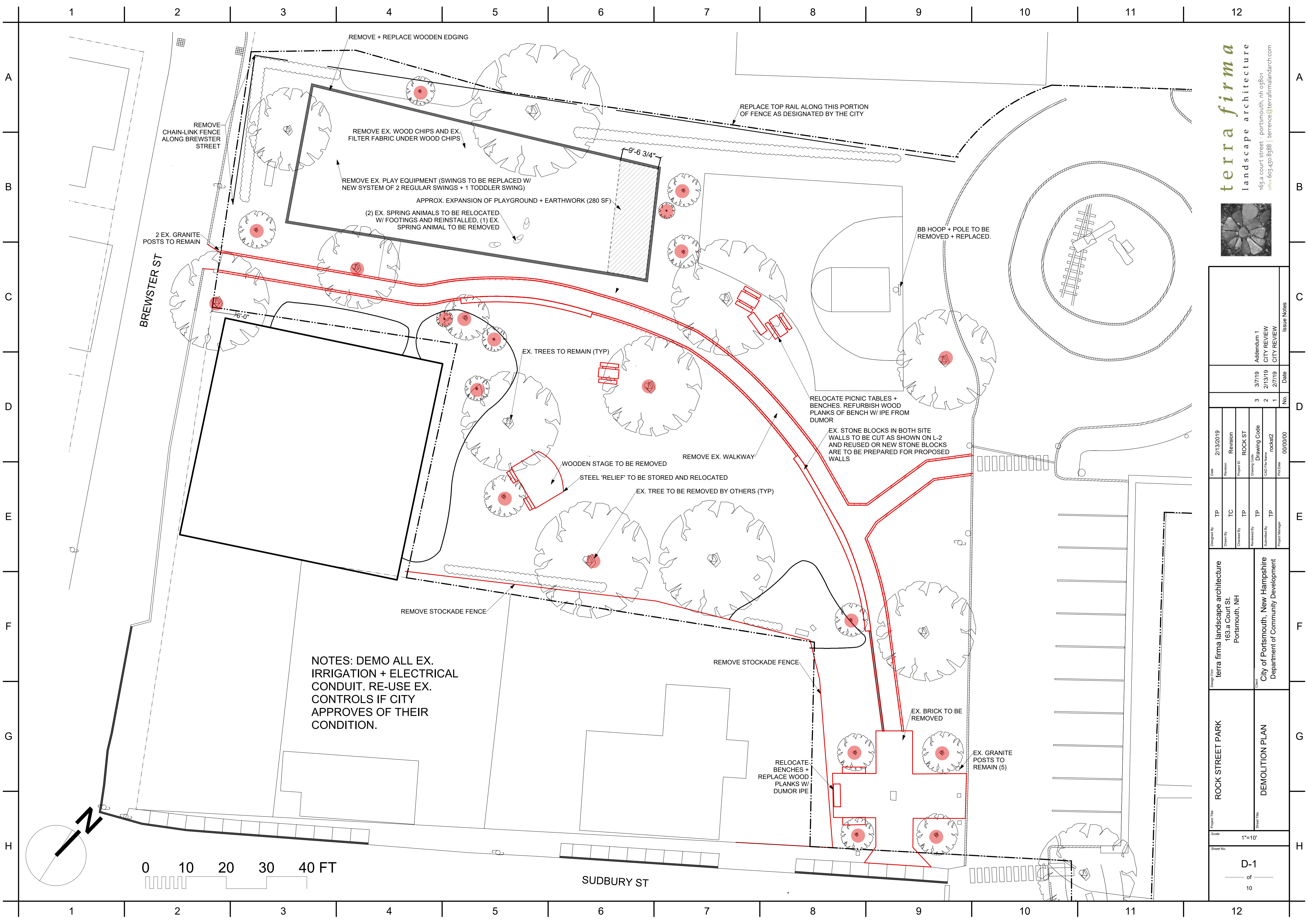


Issue Notes		Date	No.
1	City Review	2/13/19	1
2	City Review	2/13/19	2
3	City Review	3/7/19	3
Addendum 1			

Design Firm	Project Title	Scale	Sheet No.
Ross Engineering 909 Islington St, Suite 6 Portsmouth, NH 03801	ROCK STREET PARK EXISTING CONDITIONS	1" = 20'	E-1

Designed By	Drawn By	Checked By	Reviewed By	Submitted By	Project Manager
DDD	DDD	AR	AR	AR	

Date	Revision
3/7/19	Revision



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37719	3/7/19	2/13/19	2/7/19	2/7/19	2/7/19
1	2	1	1	1	1
ADDENDUM 1	CITY REVIEW	CITY REVIEW	CITY REVIEW	CITY REVIEW	CITY REVIEW
Date	No.	Date	No.	Date	No.

2/13/2019	2/13/2019	2/13/2019	2/13/2019	2/13/2019	2/13/2019
Revision	Revision	Revision	Revision	Revision	Revision
ROCK ST	ROCK ST	ROCK ST	ROCK ST	ROCK ST	ROCK ST
Project ID	Project ID	Project ID	Project ID	Project ID	Project ID
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Project No.	Project No.	Project No.	Project No.	Project No.	Project No.

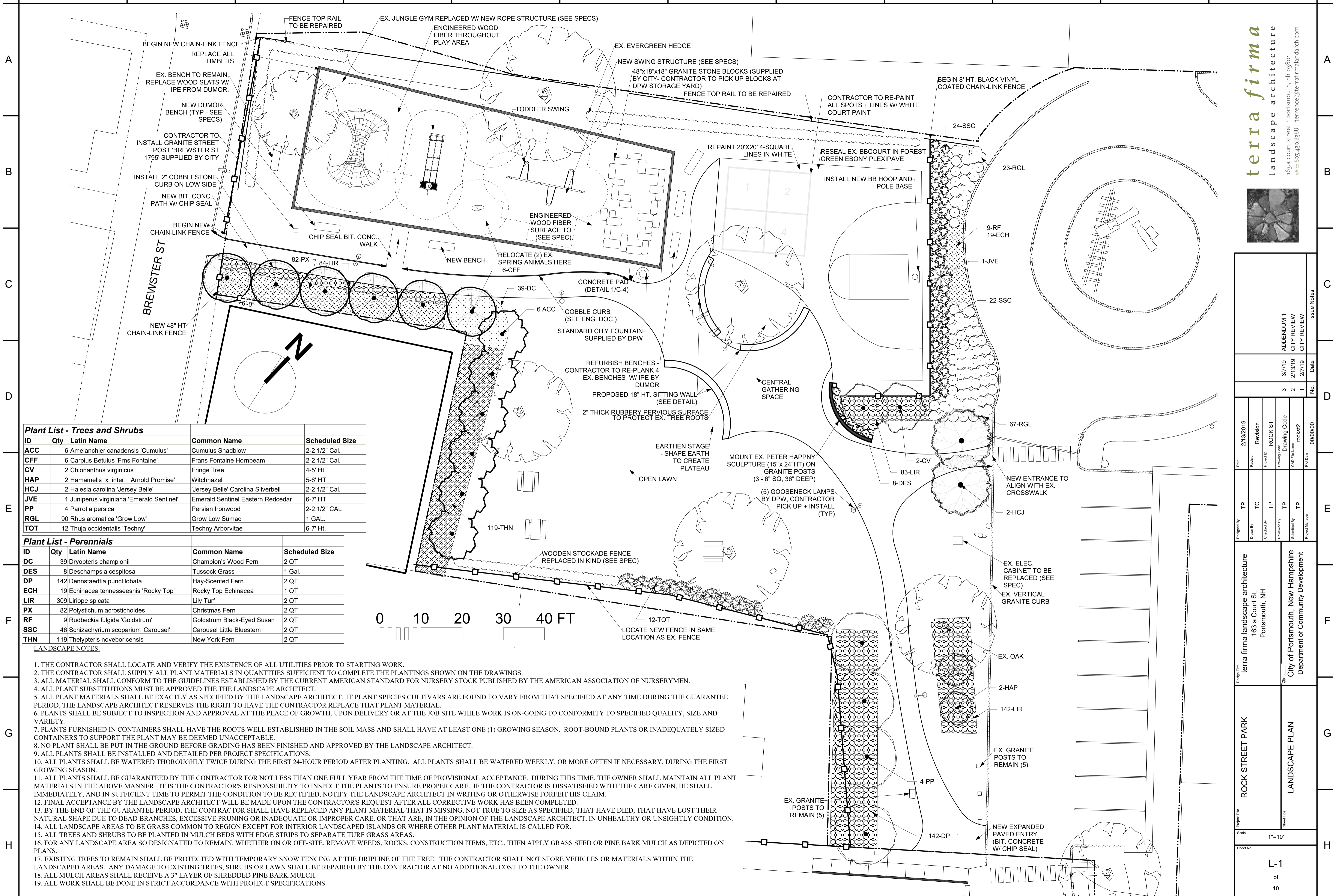
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Portsmouth, NH

City of Portsmouth, New Hampshire
Department of Community Development

ROCK STREET PARK
DEMOLITION PLAN

Scale: 1"=10'

Sheet No. D-1 of 10



Plant List - Trees and Shrubs

ID	Qty	Latin Name	Common Name	Scheduled Size
ACC	6	Amelanchier canadensis 'Cumulus'	Cumulus Shadblow	2-2 1/2" Cal.
CFF	6	Carpinus Betulus 'Frns Fontaine'	Frans Fontaine Hornbeam	2-2 1/2" Cal.
CV	2	Chionanthus virginicus	Fringe Tree	4-5' HT.
HAP	2	Hamamelis x inter. 'Arnold Promise'	Witchhazel	5-6' HT.
HCJ	2	Halesia carolina 'Jersey Belle'	'Jersey Belle' Carolina Silverbell	2-2 1/2" Cal.
JVE	1	Juniperus virginiana 'Emerald Sentinel'	Emerald Sentinel Eastern Redcedar	6-7' HT.
PP	4	Parrotia persica	Persian Ironwood	2-2 1/2" CAL.
RGL	90	Rhus aromatica 'Grow Low'	Grow Low Sumac	1 GAL.
TOT	12	Thuja occidentalis 'Techny'	Techny Arborvitae	6-7' HT.

Plant List - Perennials

ID	Qty	Latin Name	Common Name	Scheduled Size
DC	39	Dryopteris championii	Champion's Wood Fern	2 QT
DES	8	Deschampsia cespitosa	Tussock Grass	1 Gal.
DP	142	Dennstaedtia punctilobata	Hay-Scented Fern	2 QT
ECH	19	Echinacea tenneeseensis 'Rocky Top'	Rocky Top Echinacea	1 QT
LIR	309	Liriope spicata	Lily Turf	2 QT
PX	82	Polystichum acrostichoides	Christmas Fern	2 QT
RF	9	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black-Eyed Susan	2 QT
SSC	46	Schizachyrium scoparium 'Carousef'	Carousel Little Bluestem	2 QT
THN	119	Thelypteris noveboricensis	New York Fern	2 QT

- LANDSCAPE NOTES:**
1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
 2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.
 3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 4. ALL PLANT SUBSTITUTIONS MUST BE APPROVED THE THE LANDSCAPE ARCHITECT.
 5. ALL PLANT MATERIALS SHALL BE EXACTLY AS SPECIFIED BY THE LANDSCAPE ARCHITECT. IF PLANT SPECIES CULTIVARS ARE FOUND TO VARY FROM THAT SPECIFIED AT ANY TIME DURING THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO HAVE THE CONTRACTOR REPLACE THAT PLANT MATERIAL.
 6. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY OR AT THE JOB SITE WHILE WORK IS ON-GOING TO CONFORMITY TO SPECIFIED QUALITY, SIZE AND VARIETY.
 7. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE.
 8. NO PLANT SHALL BE PUT IN THE GROUND BEFORE GRADING HAS BEEN FINISHED AND APPROVED BY THE LANDSCAPE ARCHITECT.
 9. ALL PLANTS SHALL BE INSTALLED AND DETAILED PER PROJECT SPECIFICATIONS.
 10. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN IF NECESSARY, DURING THE FIRST GROWING SEASON.
 11. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NOT LESS THAN ONE FULL YEAR FROM THE TIME OF PROVISIONAL ACCEPTANCE. DURING THIS TIME, THE OWNER SHALL MAINTAIN ALL PLANT MATERIALS IN THE ABOVE MANNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE. IF THE CONTRACTOR IS DISSATISFIED WITH THE CARE GIVEN, HE SHALL IMMEDIATELY, AND IN SUFFICIENT TIME TO PERMIT THE CONDITION TO BE RECTIFIED, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OR OTHERWISE FORFEIT HIS CLAIM.
 12. FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT WILL BE MADE UPON THE CONTRACTOR'S REQUEST AFTER ALL CORRECTIVE WORK HAS BEEN COMPLETED.
 13. BY THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAVE DIED, THAT HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESSIVE PRUNING OR INADEQUATE OR IMPROPER CARE, OR THAT ARE, IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN UNHEALTHY OR UNSIGHTLY CONDITION.
 14. ALL LANDSCAPE AREAS TO BE GRASS COMMON TO REGION EXCEPT FOR INTERIOR LANDSCAPED ISLANDS OR WHERE OTHER PLANT MATERIAL IS CALLED FOR.
 15. ALL TREES AND SHRUBS TO BE PLANTED IN MULCH BEDS WITH EDGE STRIPS TO SEPARATE TURF GRASS AREAS.
 16. FOR ANY LANDSCAPE AREA SO DESIGNATED TO REMAIN, WHETHER ON OR OFF-SITE, REMOVE WEEDS, ROCKS, CONSTRUCTION ITEMS, ETC., THEN APPLY GRASS SEED OR PINE BARK MULCH AS DEPICTED ON PLANS.
 17. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY SNOW FENCING AT THE DRIPLINE OF THE TREE. THE CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS WITHIN THE LANDSCAPED AREAS. ANY DAMAGE TO EXISTING TREES, SHRUBS OR LAWN SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 18. ALL MULCH AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH.
 19. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.

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No.	Date	Issue Notes
1	2/7/19	CITY REVIEW
2	2/13/19	CITY REVIEW
3	3/7/19	ADDENDUM 1

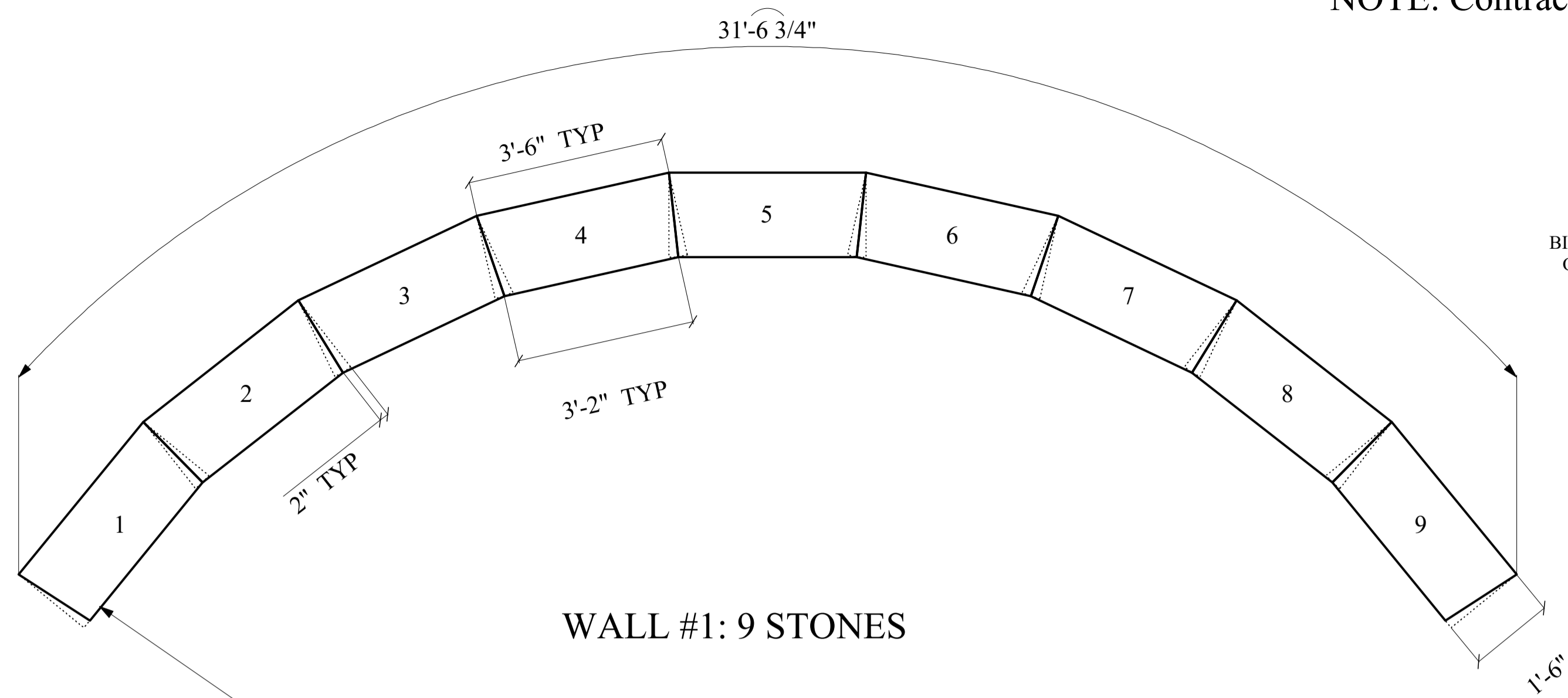
TP	TC	TP	TP	TP	Project Manager
Designed By	Drawn By	Checked By	Reviewed By	Submitted By	

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Portsmouth, NH

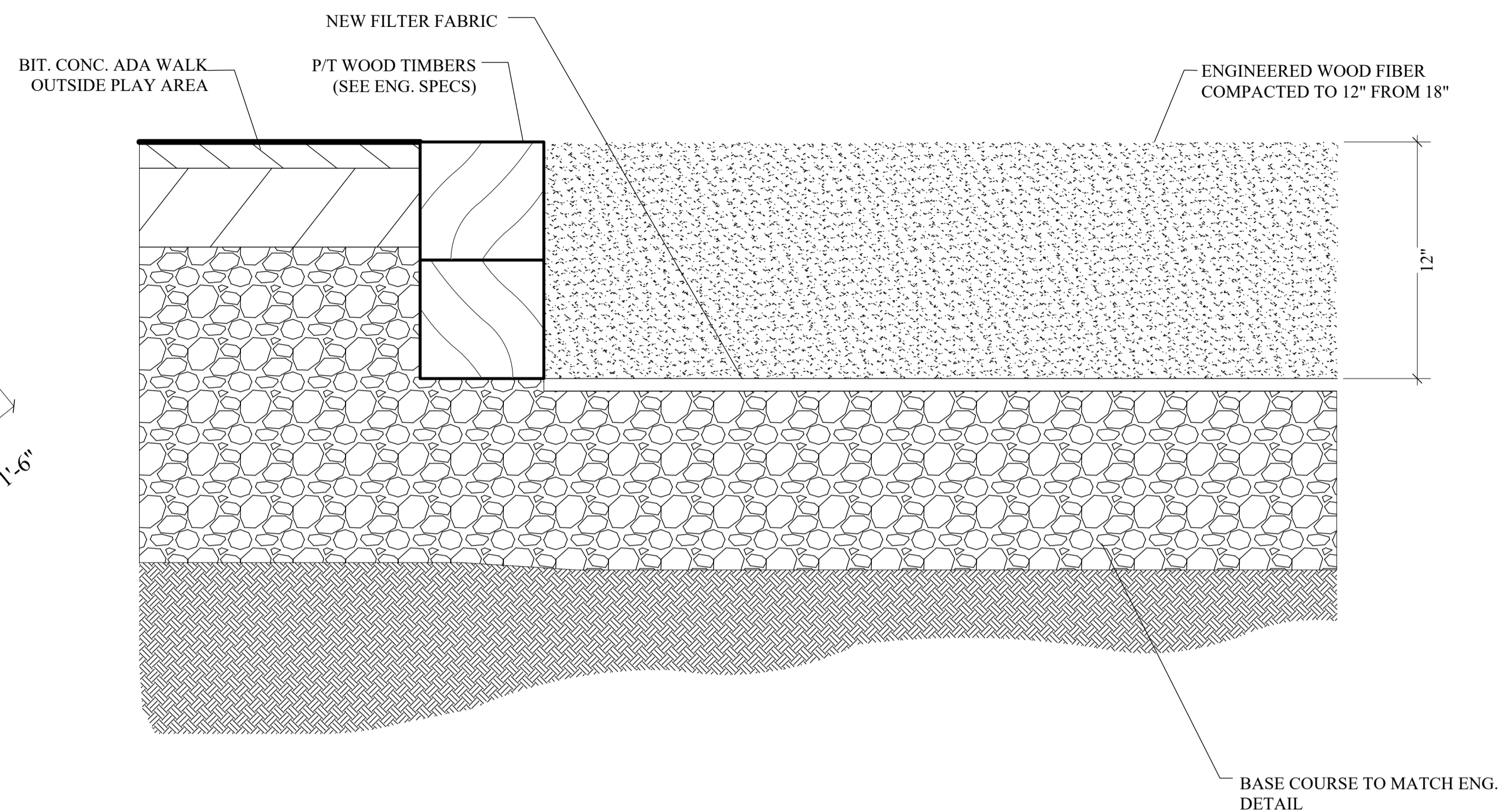
Client: City of Portsmouth, New Hampshire
Department of Community Development

Project Title	Scale	Sheet No.
ROCK STREET PARK	1"=10'	L-1
LANDSCAPE PLAN		of 10

NOTE: Contractor is to replace wood slats with Dumor Ipe slats or equal as available from Mfr.



WALL #1: 9 STONES



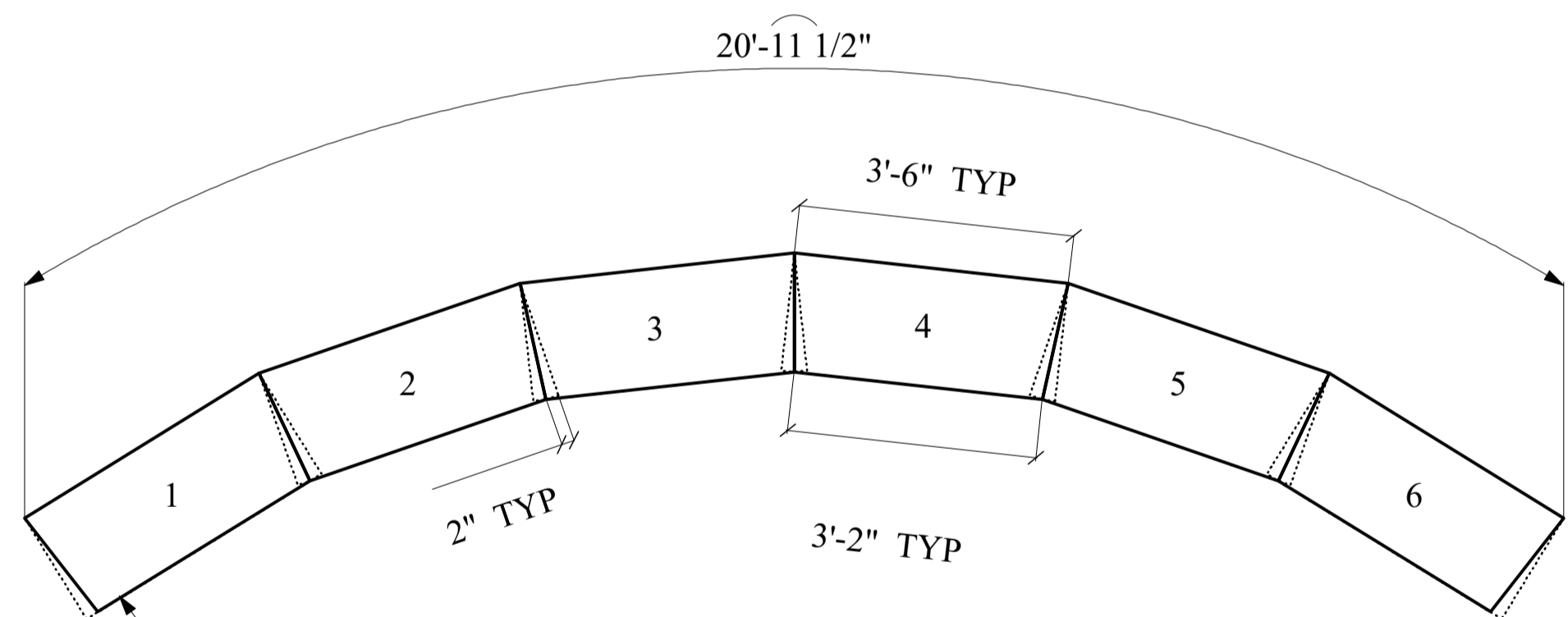
EWF SHALL BE COMPACTED IN 3-6" LIFTS FOR IMMEDIATE ADA ACCESSIBILITY OF 12" DEEP.

CONTRACTOR SHALL REMOVE ALL EX. WOOD CHIP MATERIAL AND ANY EX. FILTER FABRIC PRIOR TO INSTALL OF THE EWF.

CONTRACTOR TO INSTALL NEW FILTER FABRIC AND REPAIR EX. DRAINAGE SYSTEM DAMAGED BY THE INSTALLATION OF NEW PLAY EQUIPMENT.

ASTM & IPEMA CERTIFICATIONS INCLUDING BUT NOT LIMITED TO ASTM #S 1292 (SAFETY), 1951 (ACCESSIBILITY), 2075 (FREE OF METAL).

2 ENGINEERED WOOD FIBER ADA PATHWAY SURFACING
L-2 NOT TO SCALE



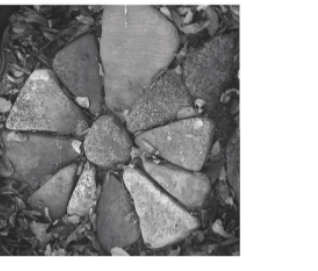
WALL #2+3: 6 STONES

CONTRACTOR TO SUPPLY NEW GRANITE BLOCKS AS SPECIFIED OR RE-WORK EXISTING STONES (ITEMIZE BOTH APPROACHES)

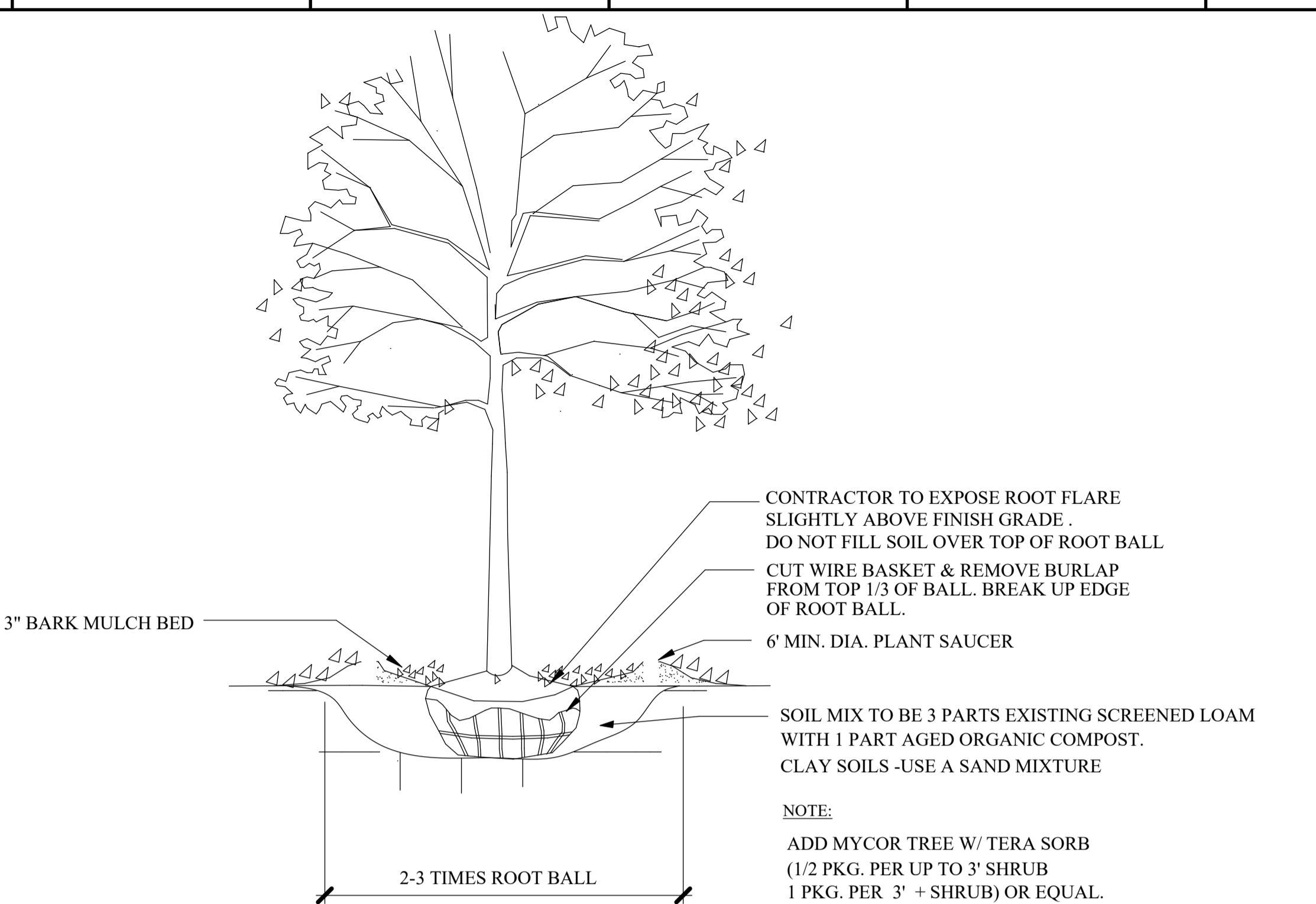
- 23 STONES ON SITE**
- JOINT ABUTTING EACH STONE IS SAW-CUT (BOTH STONE FACES)
 - OUTSIDE FACE: UNRENDERED (EX. ROCK FACE)
 - INSIDE FACE: UNRENDERED (EX. ROCK FACE)
 - TOP FACE: THERMAL FINISH
 - STONES TO BE UNIFORM HEIGHT OFF FINISH GRADE AT 16-18"

1 STONE SITTING WALL - STONE CUT DETAIL PLAN
L-2 SCALE: 1/2"=1'-0"

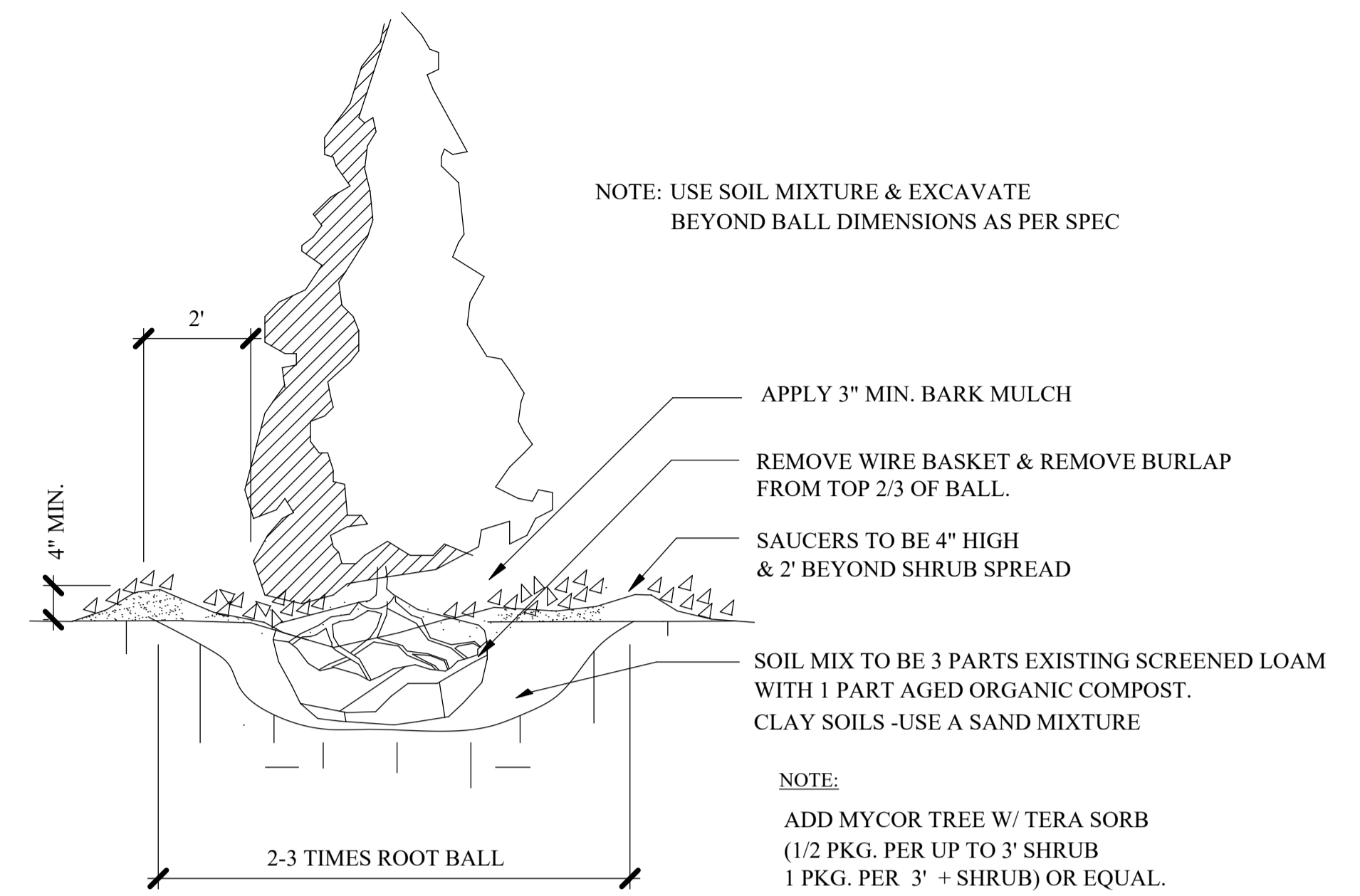
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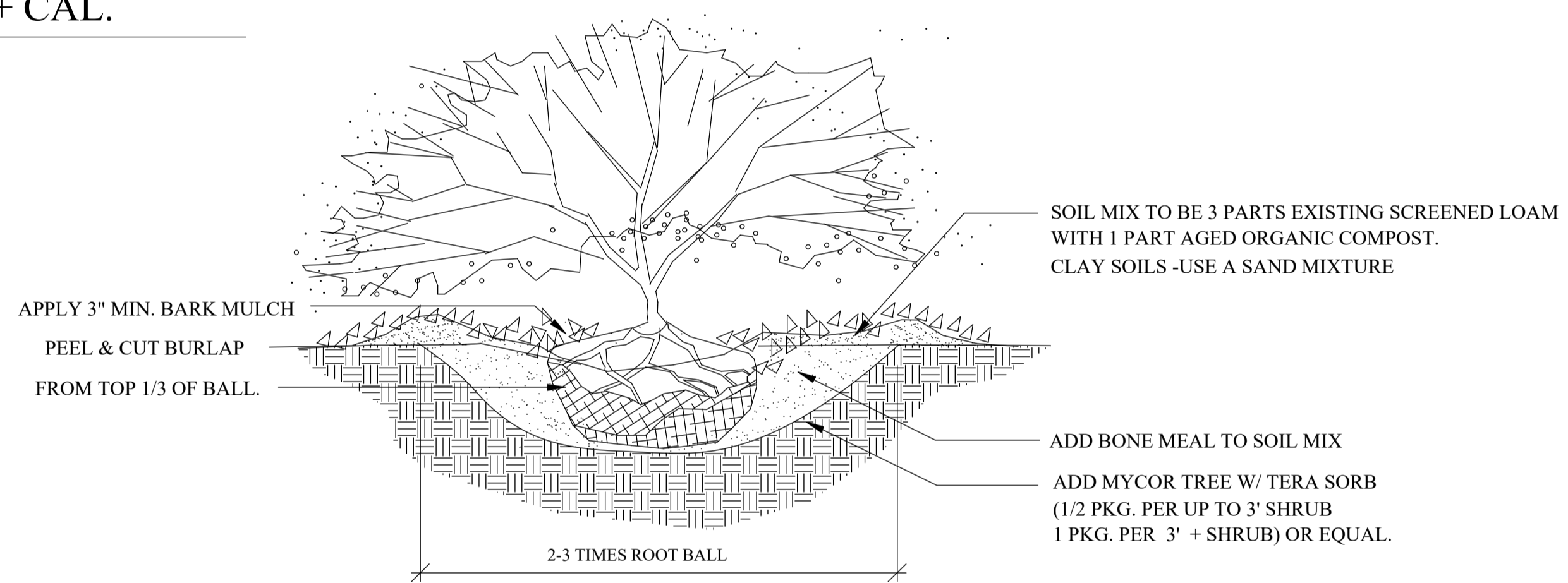
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Drawn By	TC	Revision	
Checked By	TP	Project ID	ROCK ST
Reviewed By	TP	Drawing Code	Rocksl2
Submitted By	TP	CD# File Name	Rocksl2
Project Manager		File Date	00/00/00
Design Firm	terra firma landscape architecture 163 a Court St. Portsmouth, NH		
Client	City of Portsmouth, New Hampshire Department of Community Development		
Project Title	ROCK STREET PARK		
Sheet Title	HARDSCAPE DETAILS		
Scale	SEE SHEET		
Sheet No.	L-2		
	of 10		



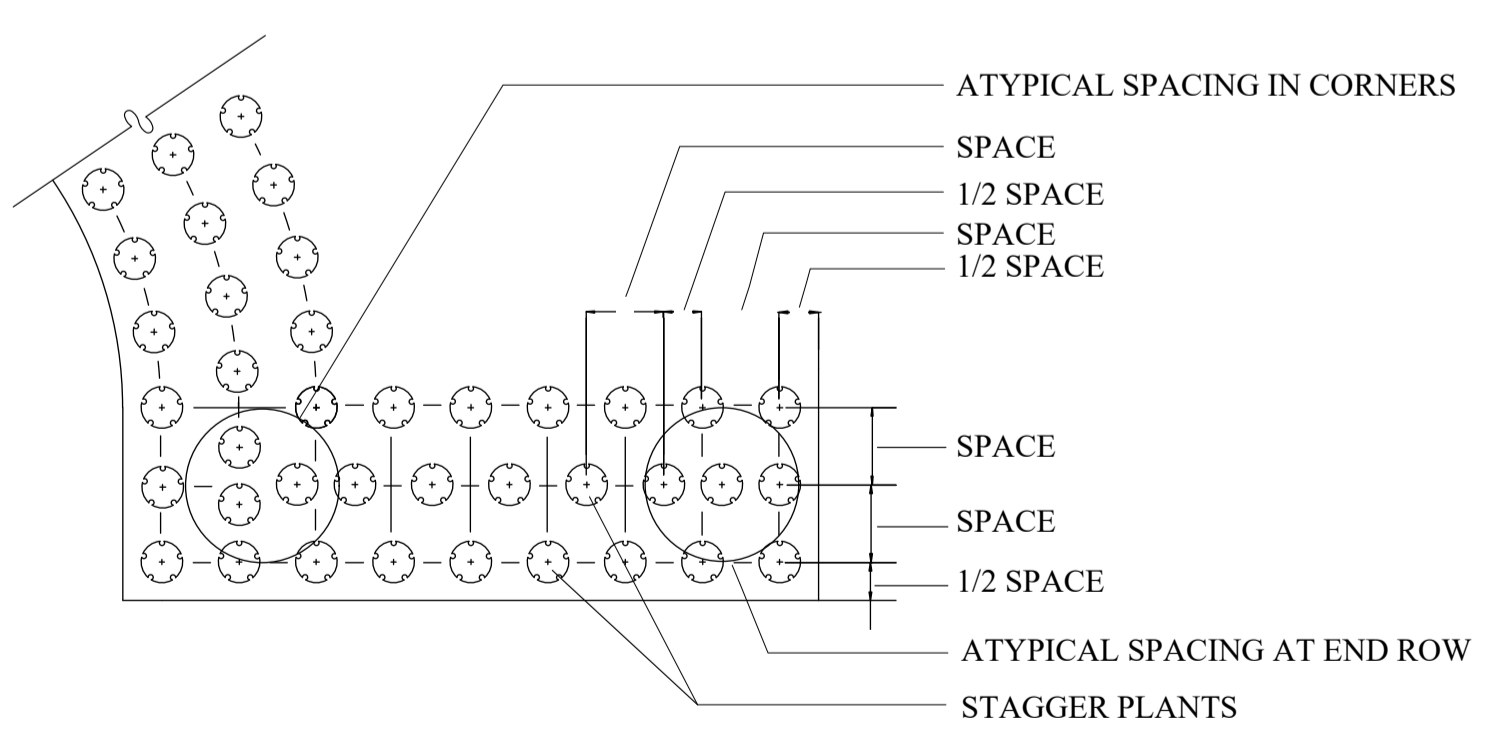
1
L-3
TREE PLANTING - 2"+ CAL.
SCALE: NTS



2
L-3
PYRAMIDAL EVERGREEN TREE PLANTING
SCALE: NTS

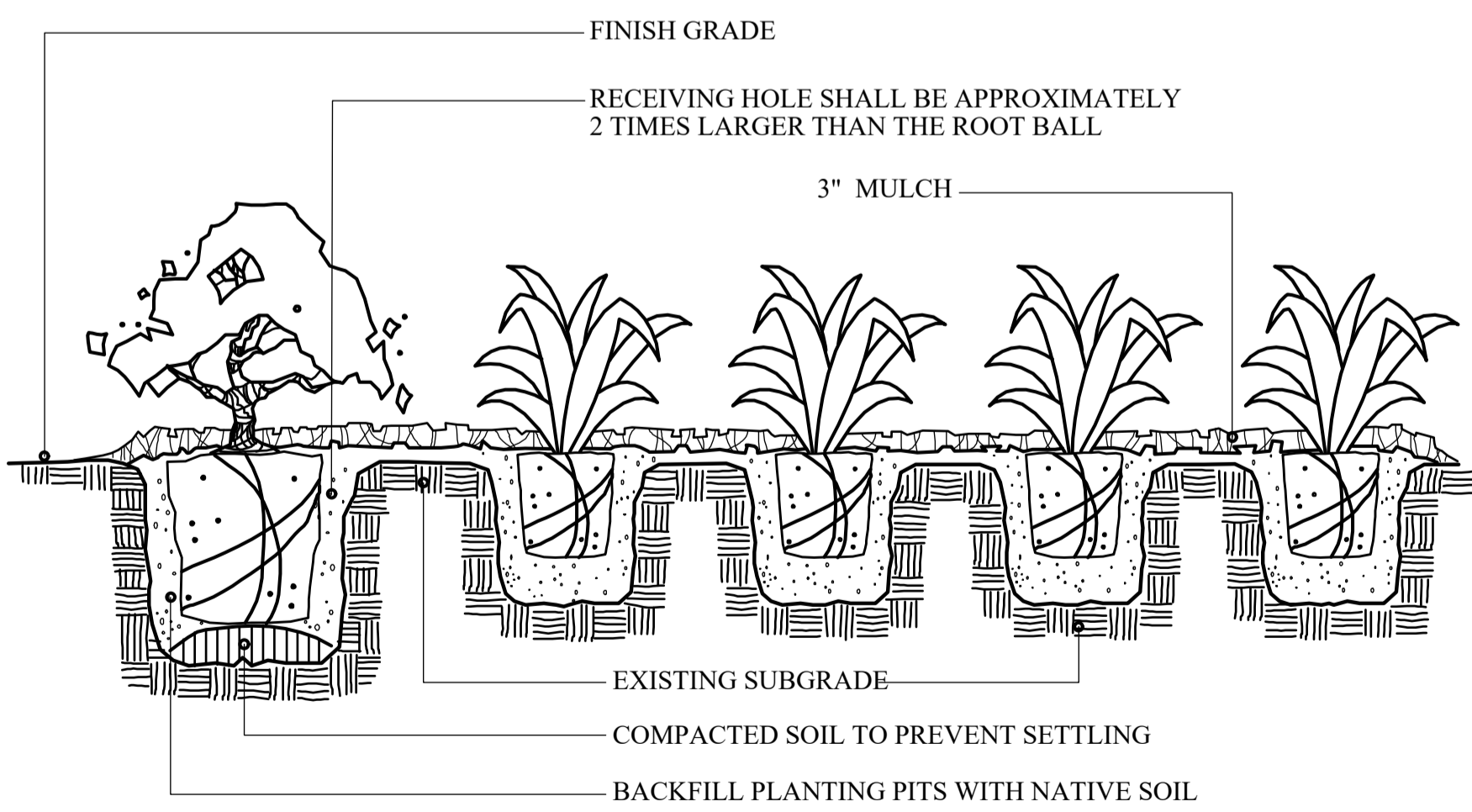


3
L-3
B&B SHRUB PLANTING
SCALE: NTS



NOTES:
1. PLACE PLANTS IN BED AS SHOWN, SPACING AS SPECIFIED IN PLANT SCHEDULE.
2. GROUND COVER SHALL BE TRIANGULAR SPACED IN ROWS PARALLEL TO STRAIGHT EDGES AND SHALL BE EVENLY SPACED IN ROWS PARALLEL TO CURVE EDGES.

4
L-3
GROUND COVER SPACING DETAIL
SCALE: NTS



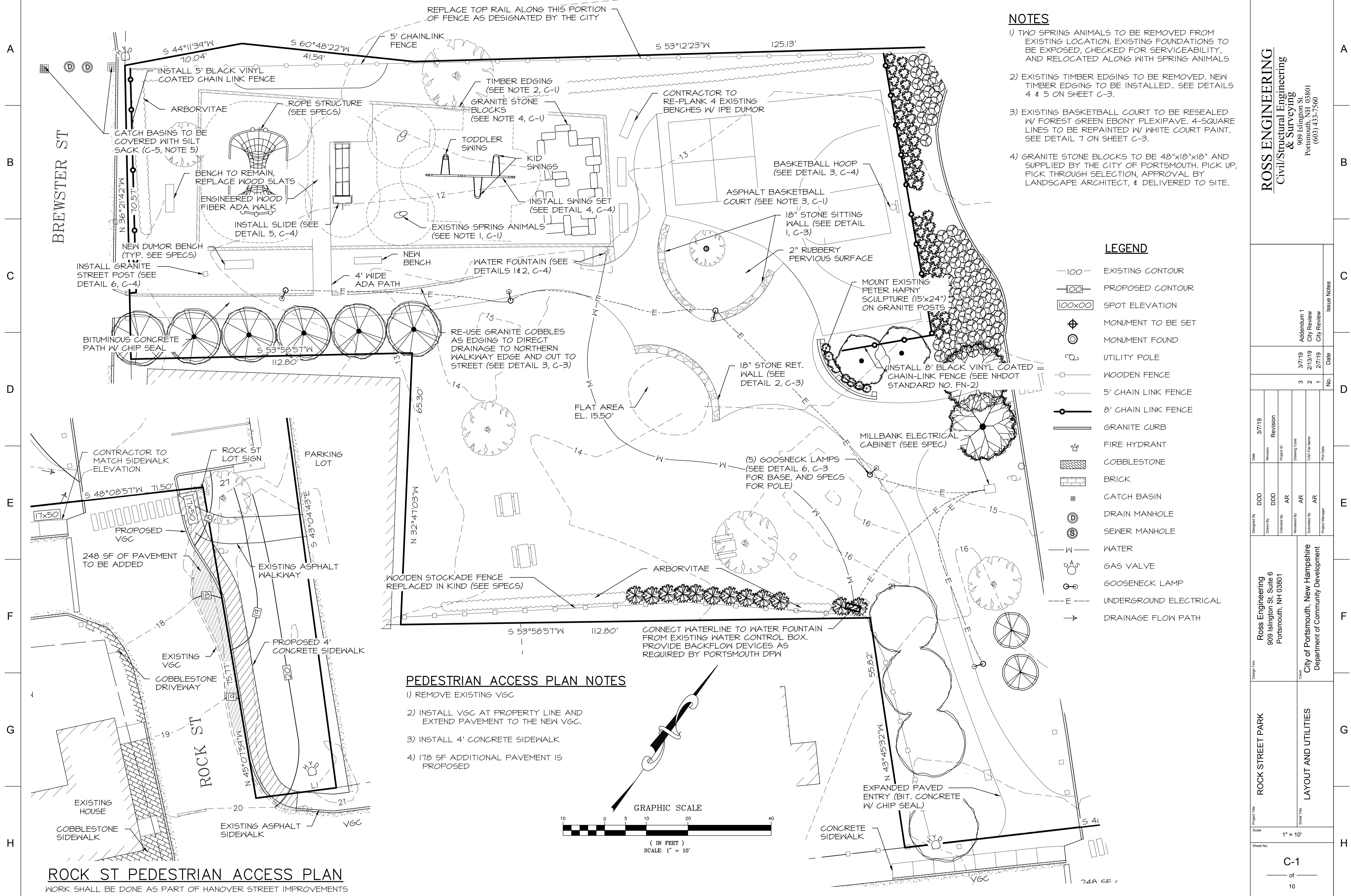
5
L-3
SHRUB/GROUND COVER PLANTING DETAIL
SCALE: NTS

City of Portsmouth Tree Planting Requirements
The base of the City of Portsmouth Tree Planting Requirements is the *ANSI A300 Part 6 Standard Practices for Planting and Transplanting*. ANSI A300 Part 6 lays out terms and basic standards as set forth by industry but it is NOT the "end all" for the City of Portsmouth. The following are the City of Portsmouth, NH Tree Planting Requirements that are in addition to or that go beyond the ANSI A300 Part 6.

1. All planting holes shall be dug by hand- **NO MACHINES**. The only exceptions are **new** construction where new planting pits, planting beds with granite curbing, and planting sites with Silva Cells are being created. If a machine is used to dig in any of these situations and planting depth needs to be raised the material in the bottom of the planting hole **MUST** be firmed with machine to prevent sinking of the root ball.
2. Remove Wire Basket entirely and upper 2/3 of Burlap shall be removed from the root ball **AND** planting hole.
3. The root ball of the tree shall be worked so that the root collar of the tree is visible and no girdling roots are present.
4. The root collar of the tree shall be 2"-3" above grade of planting hole for finished depth.
5. All plantings shall be backfilled with soil from the site and amended no more than 20% with Organic Compost. The only exceptions are new construction where engineered soil is being used in conjunction with Silva Cells and where new planting beds are being created.
6. All plantings shall be backfilled in three lifts and **ALL** lifts shall be watered so the planting will be set and free of air pockets- **NO EXCEPTIONS**.
7. An earth berm shall be placed around the perimeter of the planting hole except where curbed planting beds or pits are being used.
8. 2"-3" of mulch shall be placed over the planting area.
9. At the time the planting is complete the planting shall receive additional water to ensure complete hydration of the roots, backfill material and mulch layer.
10. Stakes and guys shall be used where appropriate and/or necessary. Guy material shall be non-damaging to the tree.
11. All planting stock shall be specimen quality, free of defects, and disease or injury. The City of Portsmouth, NH reserves the right to refuse/reject any plant material or planting action that fails to meet the standards set forth in the *ANSI A300 Part 6 Standard Practices for Planting and Transplanting* and/or The City of Portsmouth, NH Planting Requirements.



Project Title		ROCK STREET PARK	
Scale		NOT TO SCALE	
Sheet No.		L-3 of 10	
Design Firm	terra firma landscape architecture 163 a Court St. Portsmouth, NH	City	City of Portsmouth, New Hampshire Department of Community Development
Design By	TP	Revision	ROCK ST
Drawn By	TC	Project ID	rockst
Checked By	TP	Drawing Code	rockst2
Reviewed By	TP	CDP File Name	rockst2
Submitted By	TP	Proj. No.	00/00/00
Project Manager		Date	2/13/2019
No.	1	Date	3/7/19
No.	2	Date	2/13/19
No.	3	Date	2/7/19
No.	1	Date	3/7/19
Issue Notes		Addendum 1 CITY REVIEW CITY REVIEW	



NOTES

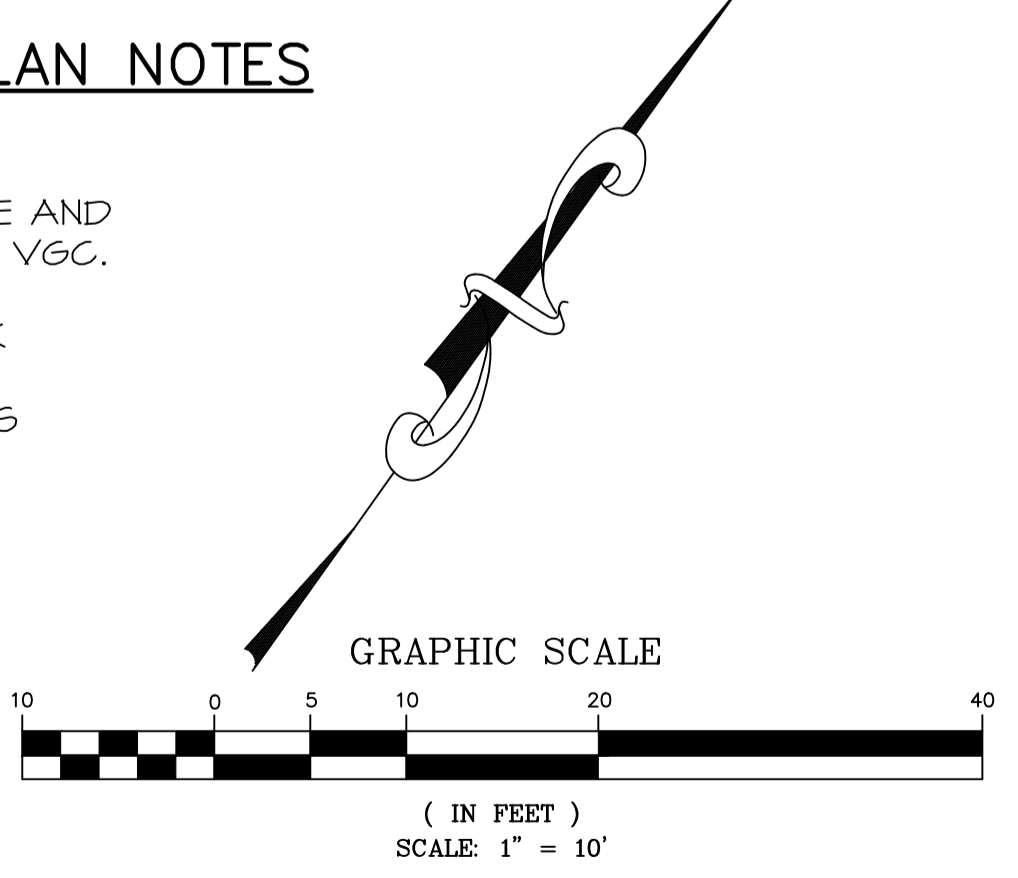
- 1) TWO SPRING ANIMALS TO BE REMOVED FROM EXISTING LOCATION. EXISTING FOUNDATIONS TO BE EXPOSED, CHECKED FOR SERVICEABILITY, AND RELOCATED ALONG WITH SPRING ANIMALS
- 2) EXISTING TIMBER EDGING TO BE REMOVED. NEW TIMBER EDGING TO BE INSTALLED.. SEE DETAILS 4 & 5 ON SHEET C-3.
- 3) EXISTING BASKETBALL COURT TO BE RESEALED W/ FOREST GREEN EBONY PLEXIPAVE. 4-SQUARE LINES TO BE REPAINTED W/ WHITE COURT PAINT. SEE DETAIL T ON SHEET C-3.
- 4) GRANITE STONE BLOCKS TO BE 48"x18"x18" AND SUPPLIED BY THE CITY OF PORTSMOUTH. PICK UP, PICK THROUGH SELECTION, APPROVAL BY LANDSCAPE ARCHITECT, & DELIVERED TO SITE.

LEGEND

- 100- EXISTING CONTOUR
- 00- PROPOSED CONTOUR
- 100x00 SPOT ELEVATION
- ⊕ MONUMENT TO BE SET
- ⊙ MONUMENT FOUND
- ⊕ UTILITY POLE
- WOODEN FENCE
- 5' CHAIN LINK FENCE
- 8' CHAIN LINK FENCE
- ▬ GRANITE CURB
- ⊕ FIRE HYDRANT
- ▨ COBBLESTONE
- ▨ BRICK
- CATCH BASIN
- ⊕ DRAIN MANHOLE
- ⊕ SEWER MANHOLE
- W WATER
- ⊕ GAS VALVE
- ⊕ GOOSENECK LAMP
- - - UNDERGROUND ELECTRICAL
- DRAINAGE FLOW PATH

PEDESTRIAN ACCESS PLAN NOTES

- 1) REMOVE EXISTING VGC
- 2) INSTALL VGC AT PROPERTY LINE AND EXTEND PAVEMENT TO THE NEW VGC.
- 3) INSTALL 4' CONCRETE SIDEWALK
- 4) 178 SF ADDITIONAL PAVEMENT IS PROPOSED



ROCK ST PEDESTRIAN ACCESS PLAN
 WORK SHALL BE DONE AS PART OF HANOVER STREET IMPROVEMENTS

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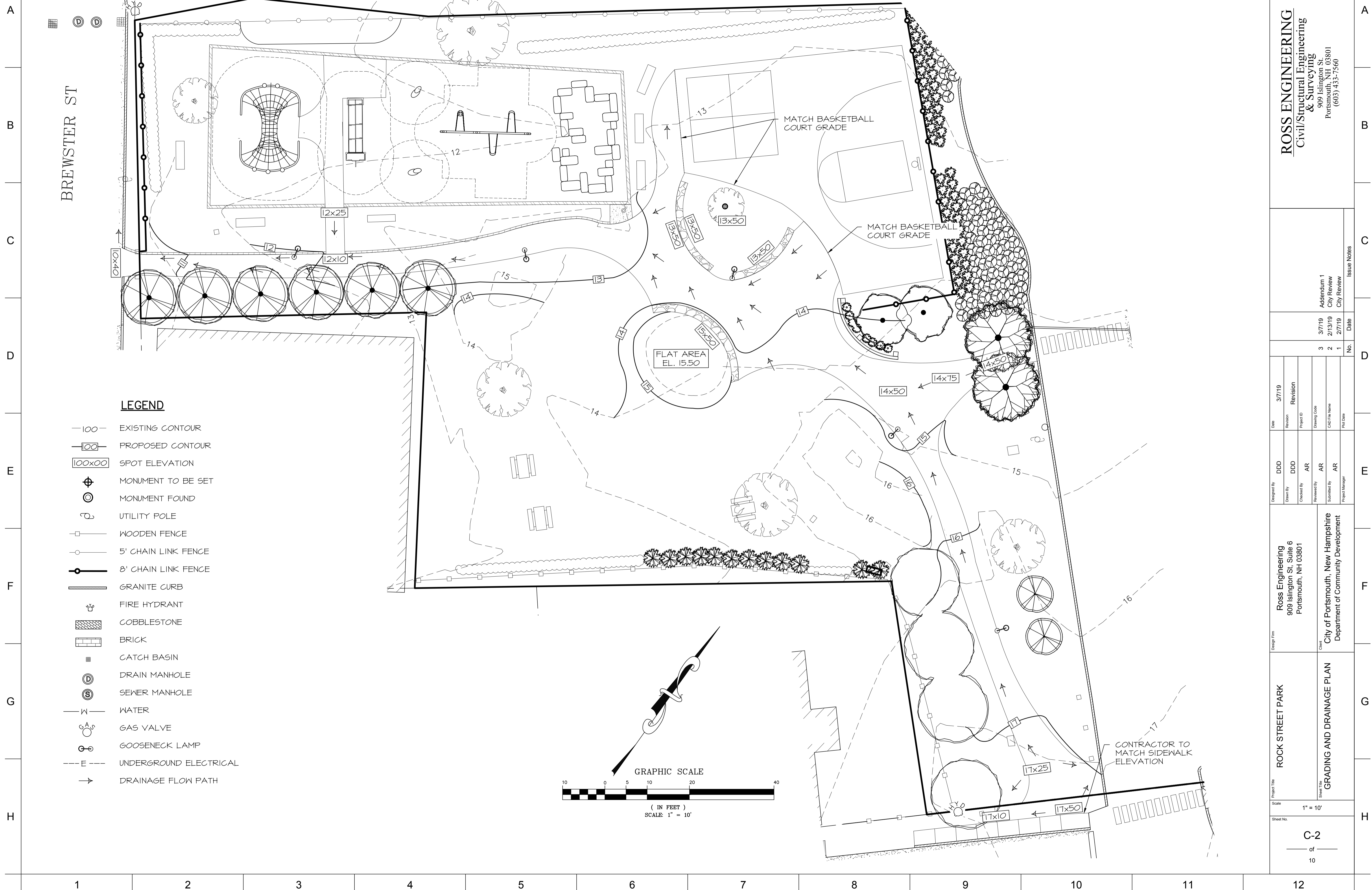
Issue Notes		Date	No.
3	37/19	2/13/19	1
2	37/19	2/13/19	1
1	37/19	2/13/19	1

Designed By	Drawn By	Checked By	Reviewed By	Submitted By	Project Manager
DDD	DDD	AR	AR	AR	AR

Date	Revision
3/7/19	Revision

Project Title	Client
ROCK STREET PARK	Ross Engineering 909 Islington St, Suite 6 Portsmouth, NH 03801
LAYOUT AND UTILITIES	City of Portsmouth, New Hampshire Department of Community Development

Scale	Sheet No.
1" = 10'	C-1
	10



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No.	Date	Issue Notes
3	3/7/19	Addendum 1
2	2/13/19	City Review
1	2/7/19	City Review

Date	3/7/19
Designed By	DDD
Drawn By	DDD
Checked By	AR
Reviewed By	AR
Submitted By	AR
Project Manager	
Revision	
Project ID	
Drawing Code	
CAD File Name	
Proj Date	

Design Firm
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Client
City of Portsmouth, New Hampshire
Department of Community Development

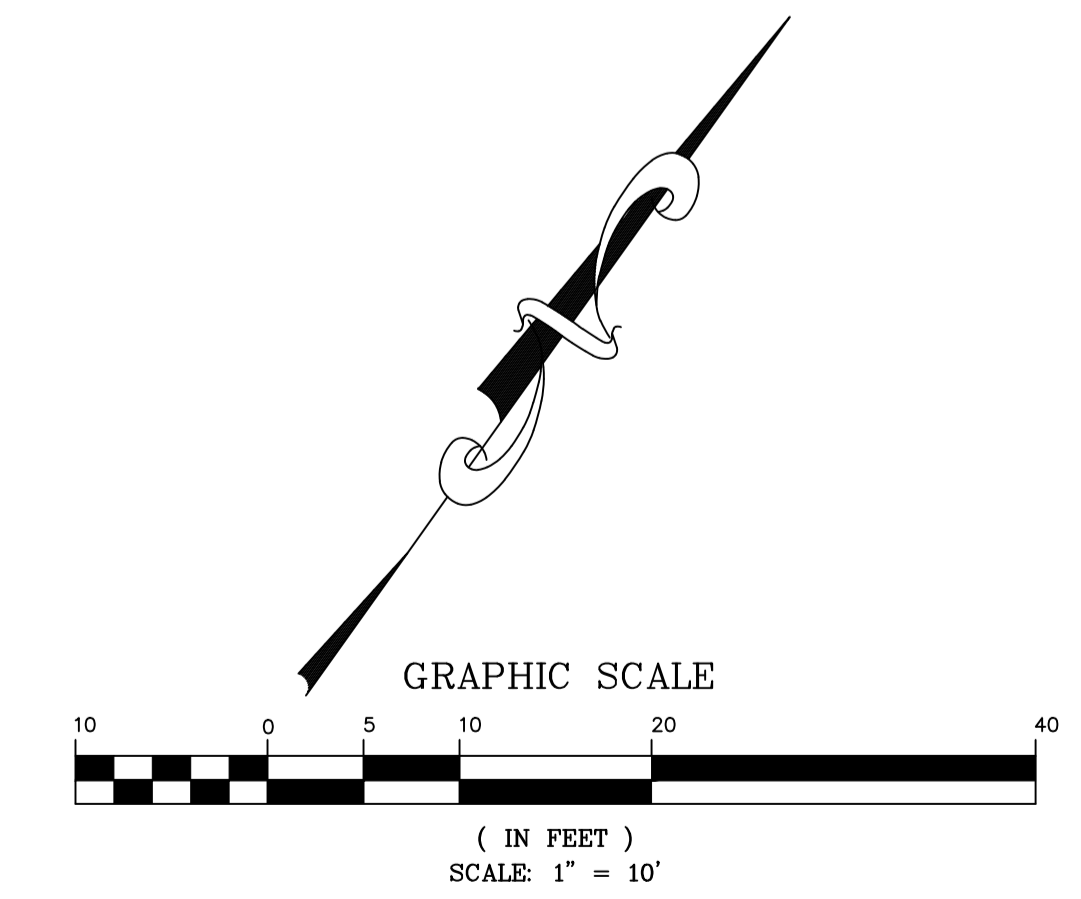
Project Title
ROCK STREET PARK

Sheet Title
GRADING AND DRAINAGE PLAN

Scale: 1" = 10'

Sheet No. **C-2**
of
10

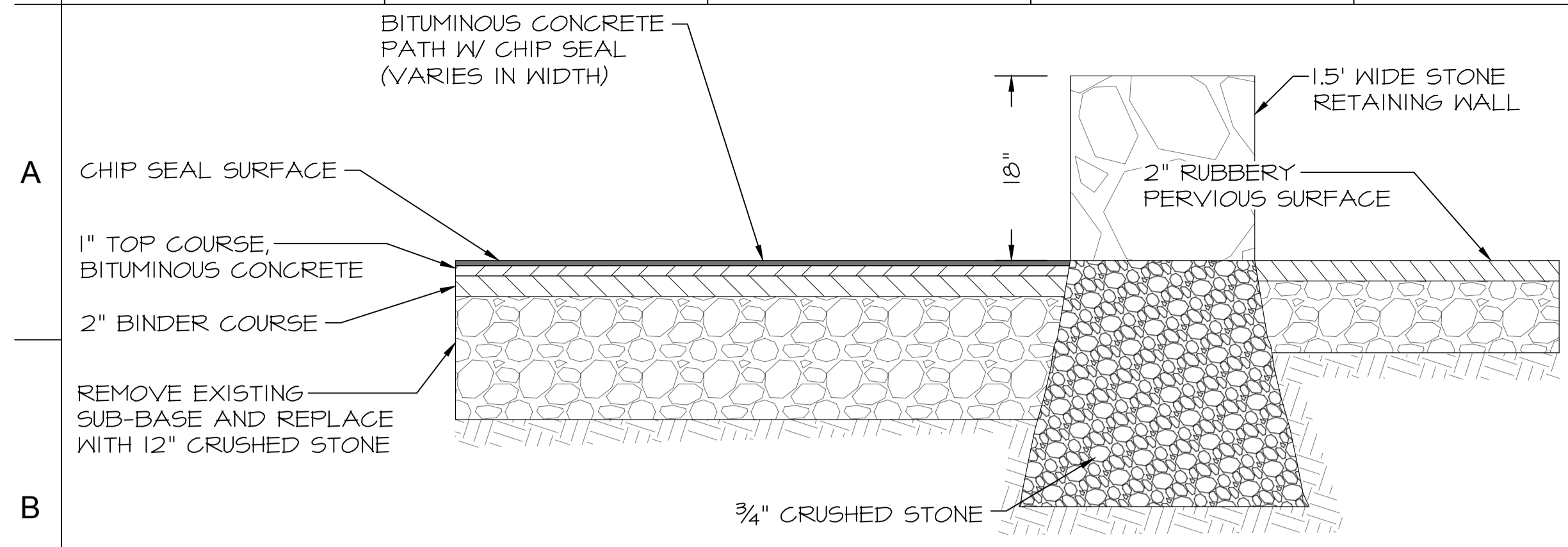
- LEGEND**
- 100 — EXISTING CONTOUR
 - 100 — PROPOSED CONTOUR
 - 100x00 SPOT ELEVATION
 - ⊕ MONUMENT TO BE SET
 - ⊙ MONUMENT FOUND
 - ⊕ UTILITY POLE
 - WOODEN FENCE
 - 5' CHAIN LINK FENCE
 - ⊕ 8' CHAIN LINK FENCE
 - ▬ GRANITE CURB
 - ⊕ FIRE HYDRANT
 - ▨ COBBLESTONE
 - ▨ BRICK
 - CATCH BASIN
 - ⊙ DRAIN MANHOLE
 - ⊙ SEWER MANHOLE
 - W — WATER
 - ⊕ GAS VALVE
 - ⊕ GOOSENECK LAMP
 - E --- UNDERGROUND ELECTRICAL
 - DRAINAGE FLOW PATH



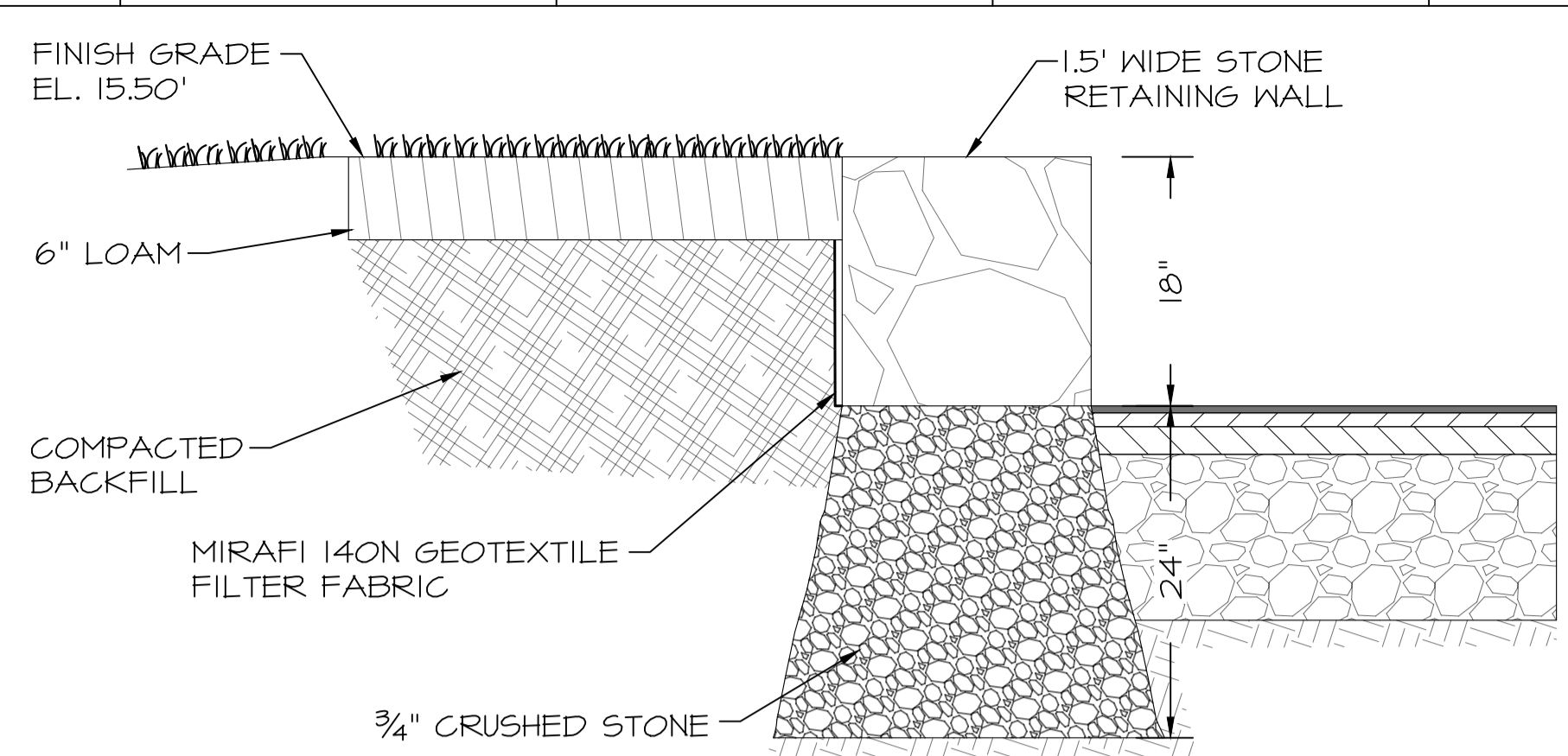
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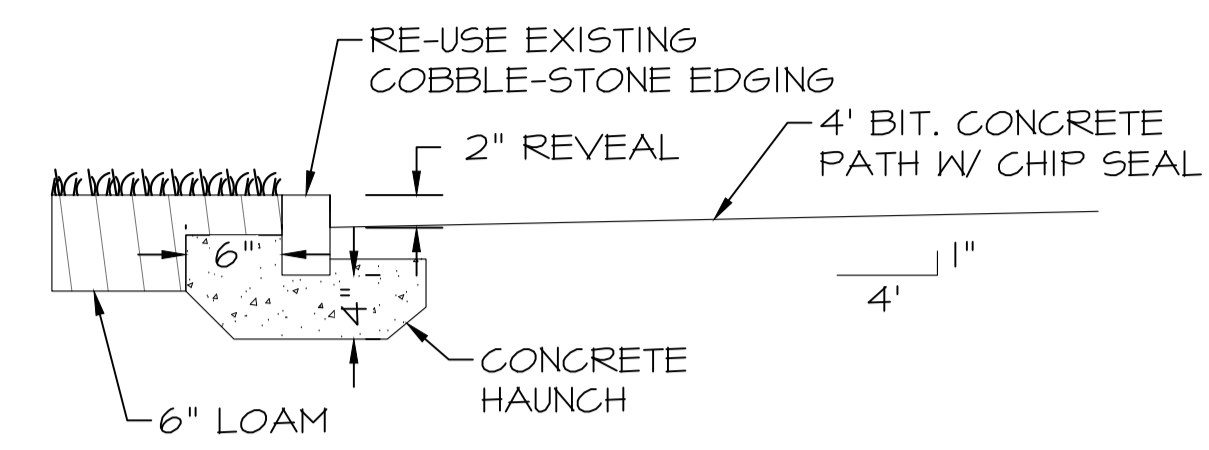
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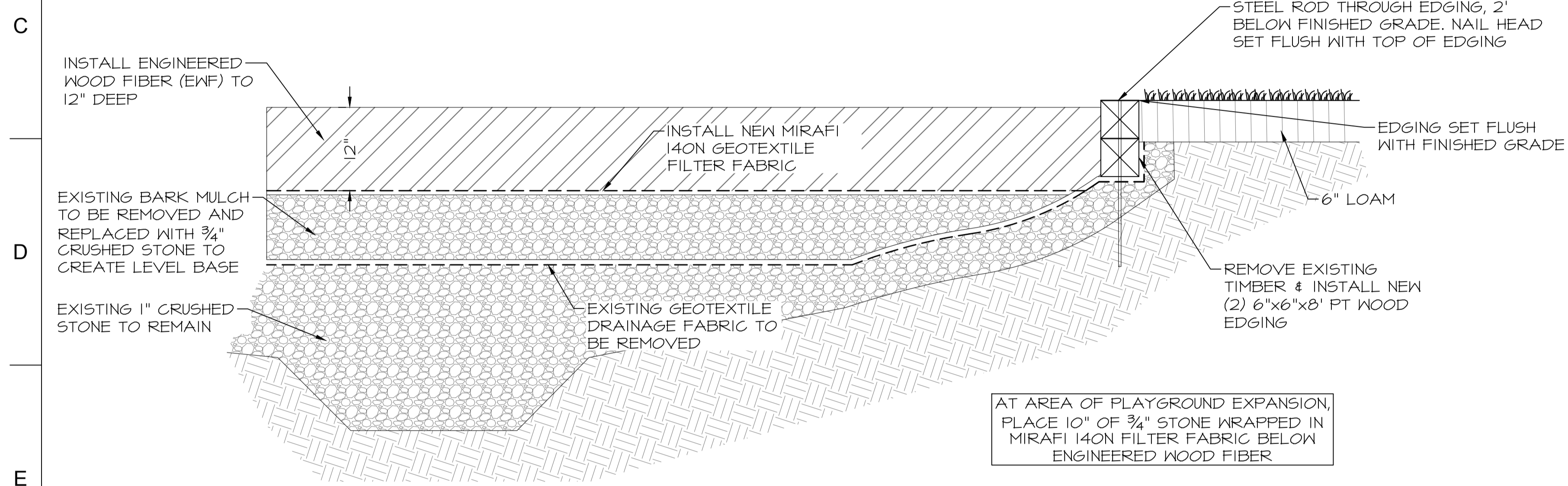
1 SITTING WALL DETAIL
C-3 Scale: 1"=1'



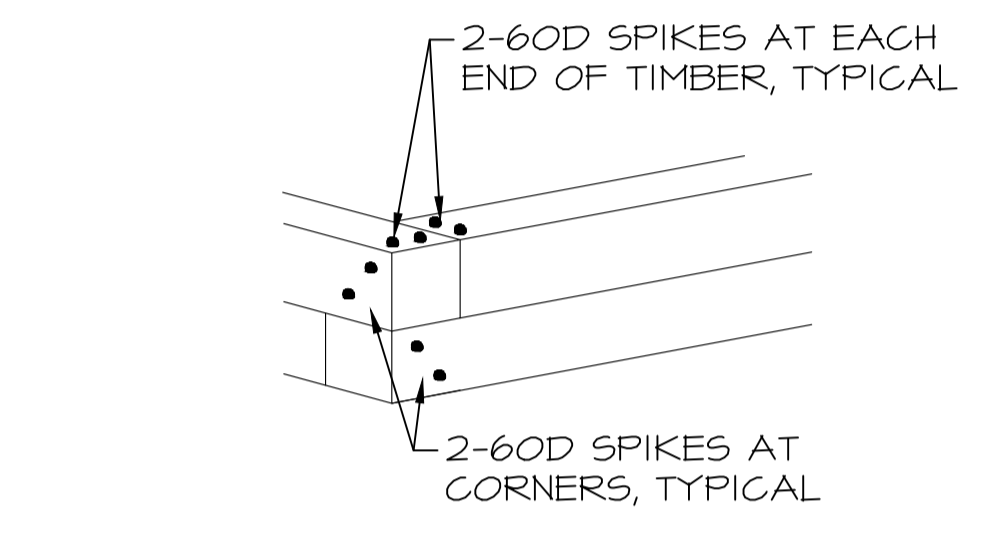
2 RETAINING WALL DETAIL
C-3 Scale: 1"=1'



3 COBBLESTONE EDGING DETAIL
C-3 Scale: NTS

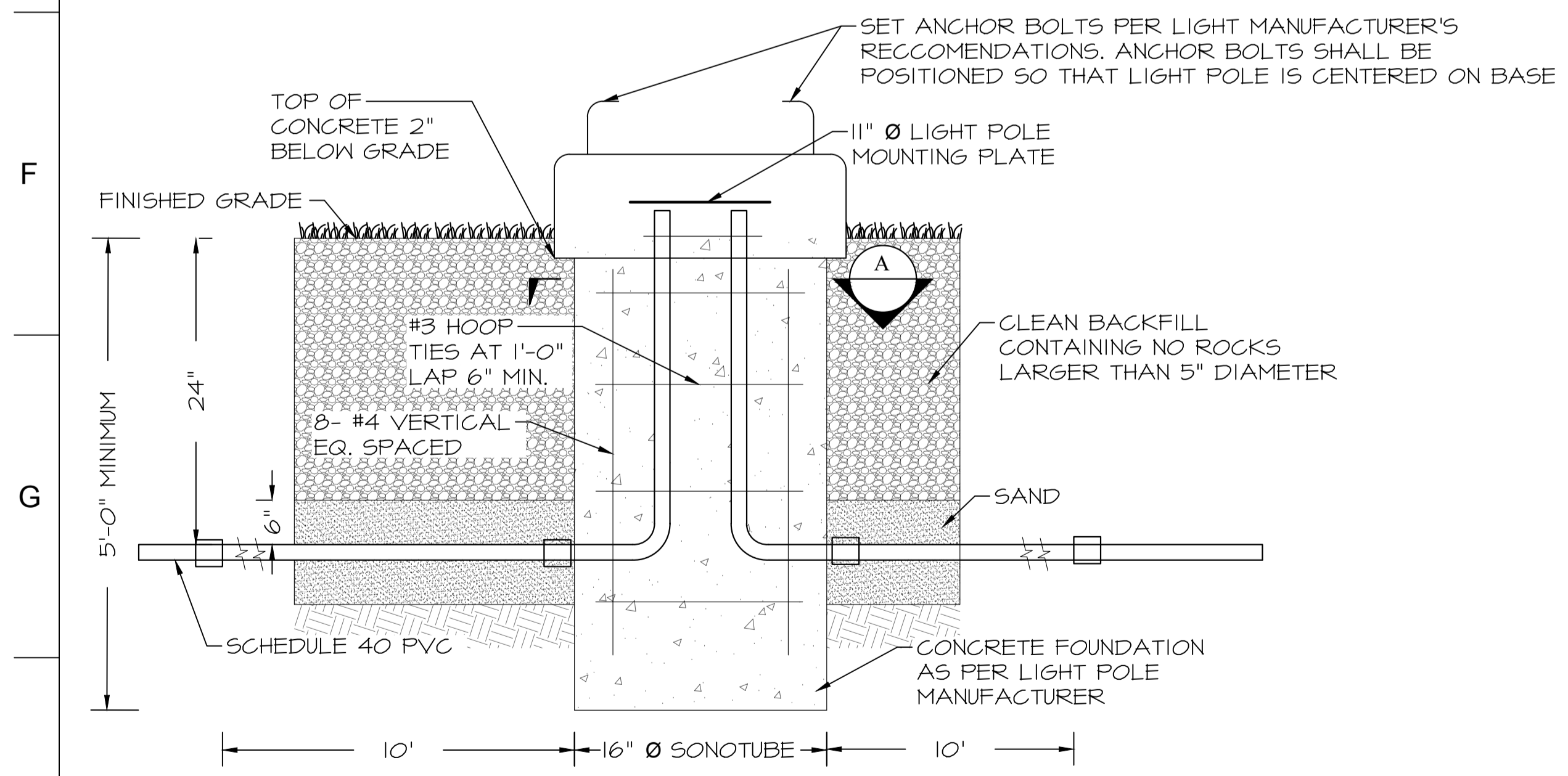


4 PLAYGROUND & EDGING DETAIL
C-3 Scale: 1"=1'

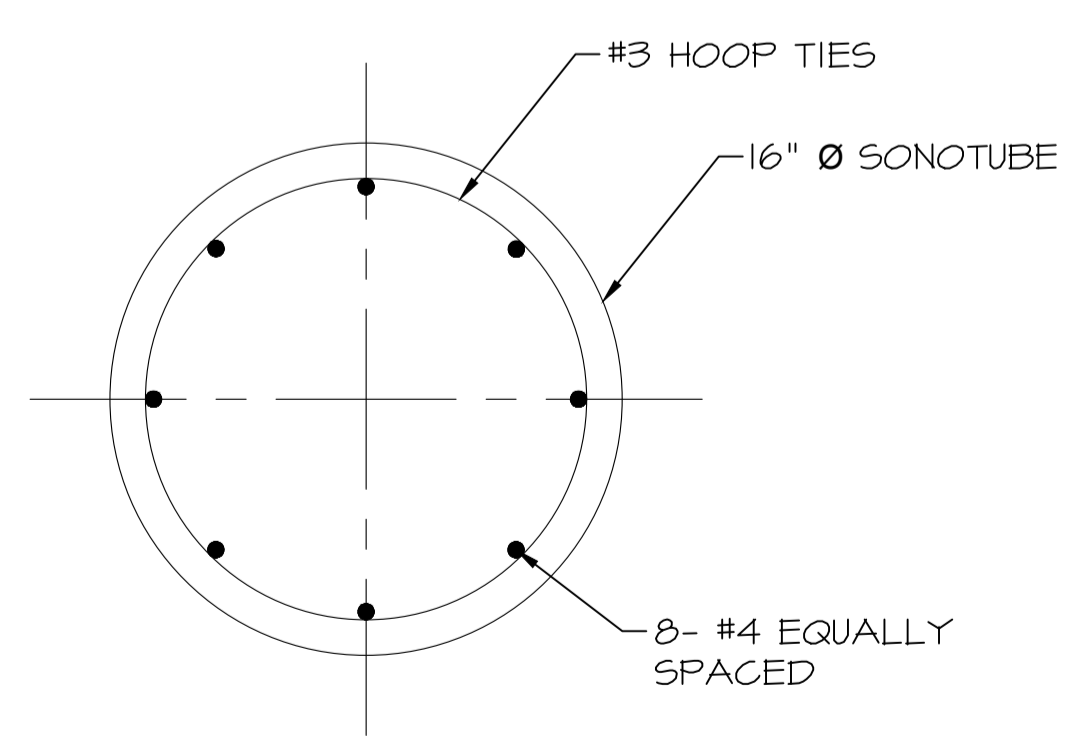


5 CORNER ANCHOR DETAIL
C-3 Scale: NTS

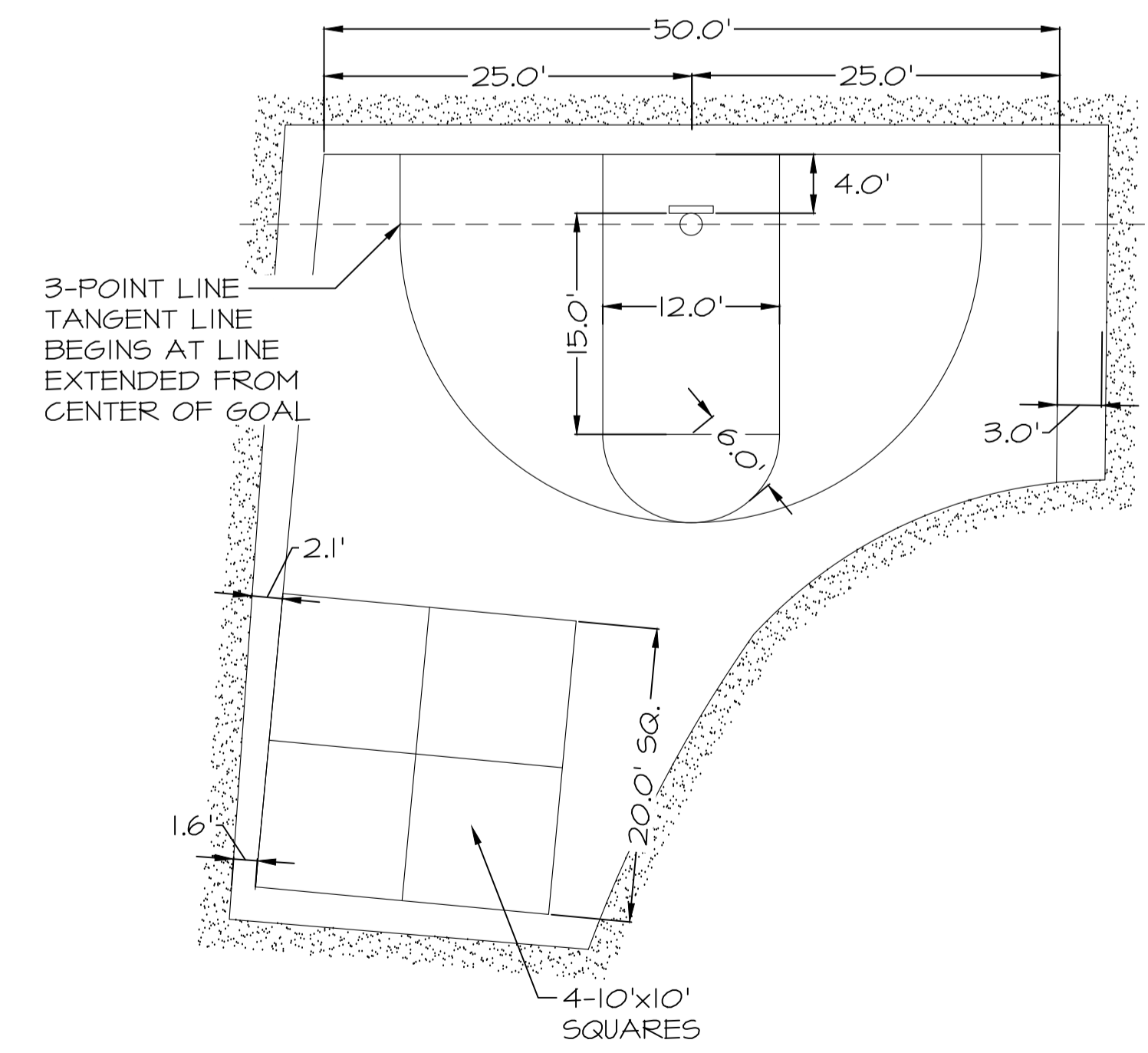
AT AREA OF PLAYGROUND EXPANSION, PLACE 10" OF 3/4" STONE WRAPPED IN MIRAFI 140N FILTER FABRIC BELOW ENGINEERED WOOD FIBER.



6 LIGHT FIXTURE BASE DETAIL
C-3 Scale: NTS



A SECTION
Scale: NTS



7 COURT PAINTING DETAIL
C-3 Scale: 1"=10'

Date	Revision	Project ID	Drawing Code	CAD File Name	Proj Date
3/7/19					
2/13/19	1				
2/7/19	2				
3/7/19	3				

Designed By	Drawn By	Checked By	Reviewed By	Submitted By	Project Manager
DDD	DDD	AR	AR	AR	

<p>ROSS ENGINEERING 909 Islington St. Suite 6 Portsmouth, NH 03801</p>	<p>City of Portsmouth, New Hampshire Department of Community Development</p>
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<p>Project Title: ROCK STREET PARK</p>	<p>Sheet Title: DETAILS SHEET A</p>
<p>Scale: SEE SHEET</p>	<p>Sheet No: C-3 of 10</p>

Issue Notes

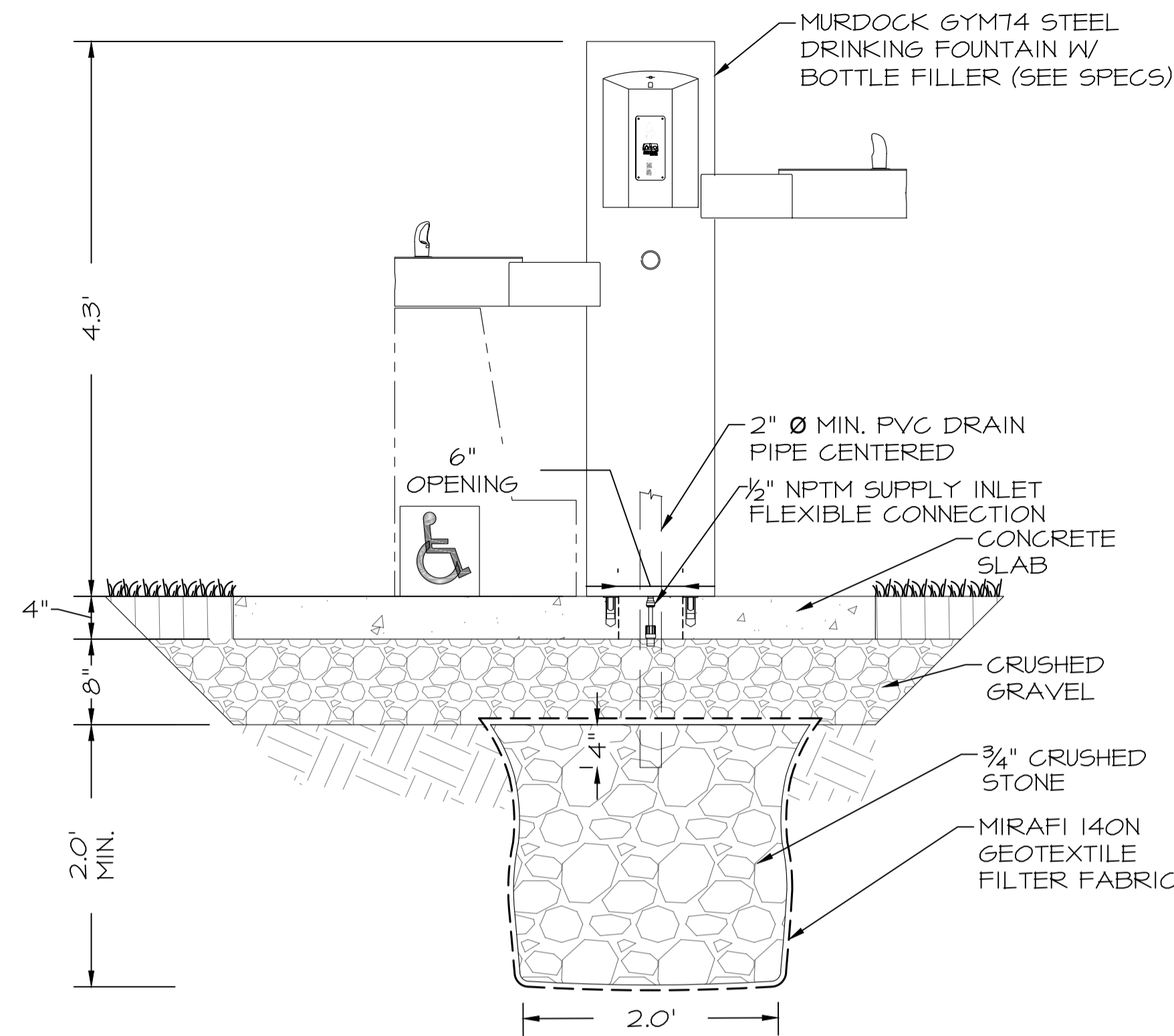
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Date 2/7/19 2/13/19 3/7/19

City Review City Review City Review

Addendum 1

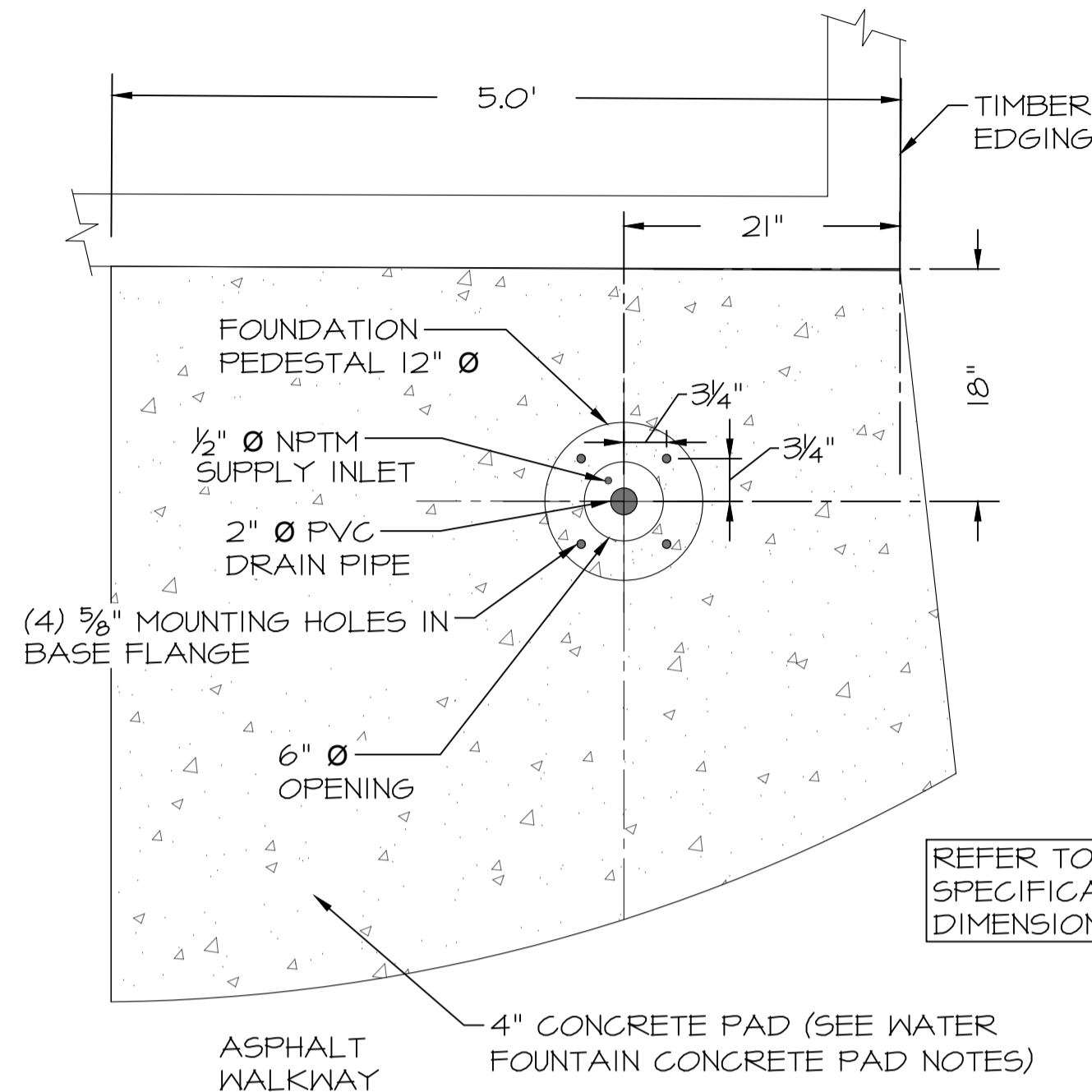
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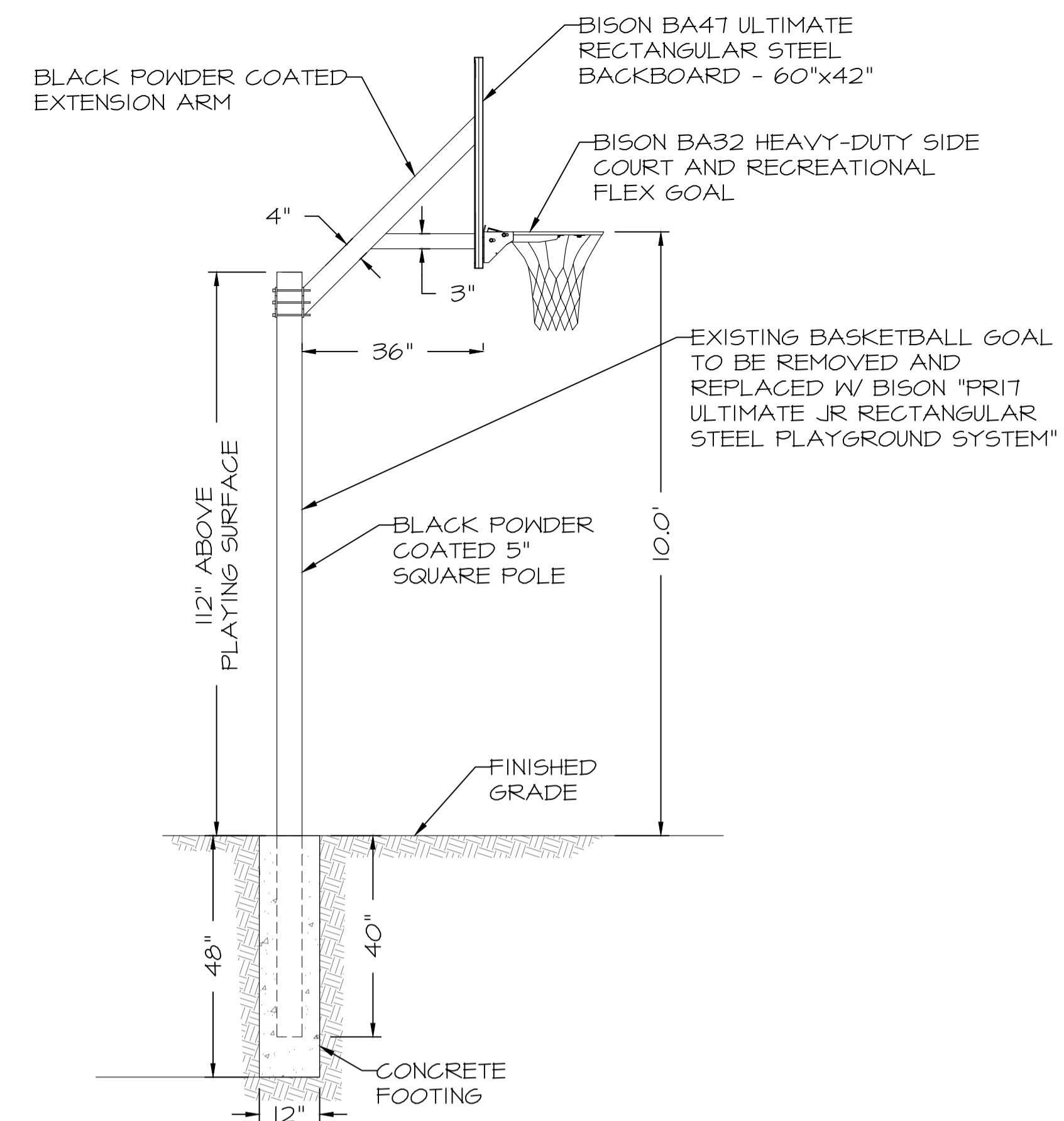
1 WATER FOUNTAIN DETAIL
C-4 Scale: 1"=1'

WATER FOUNTAIN CONCRETE PAD NOTES

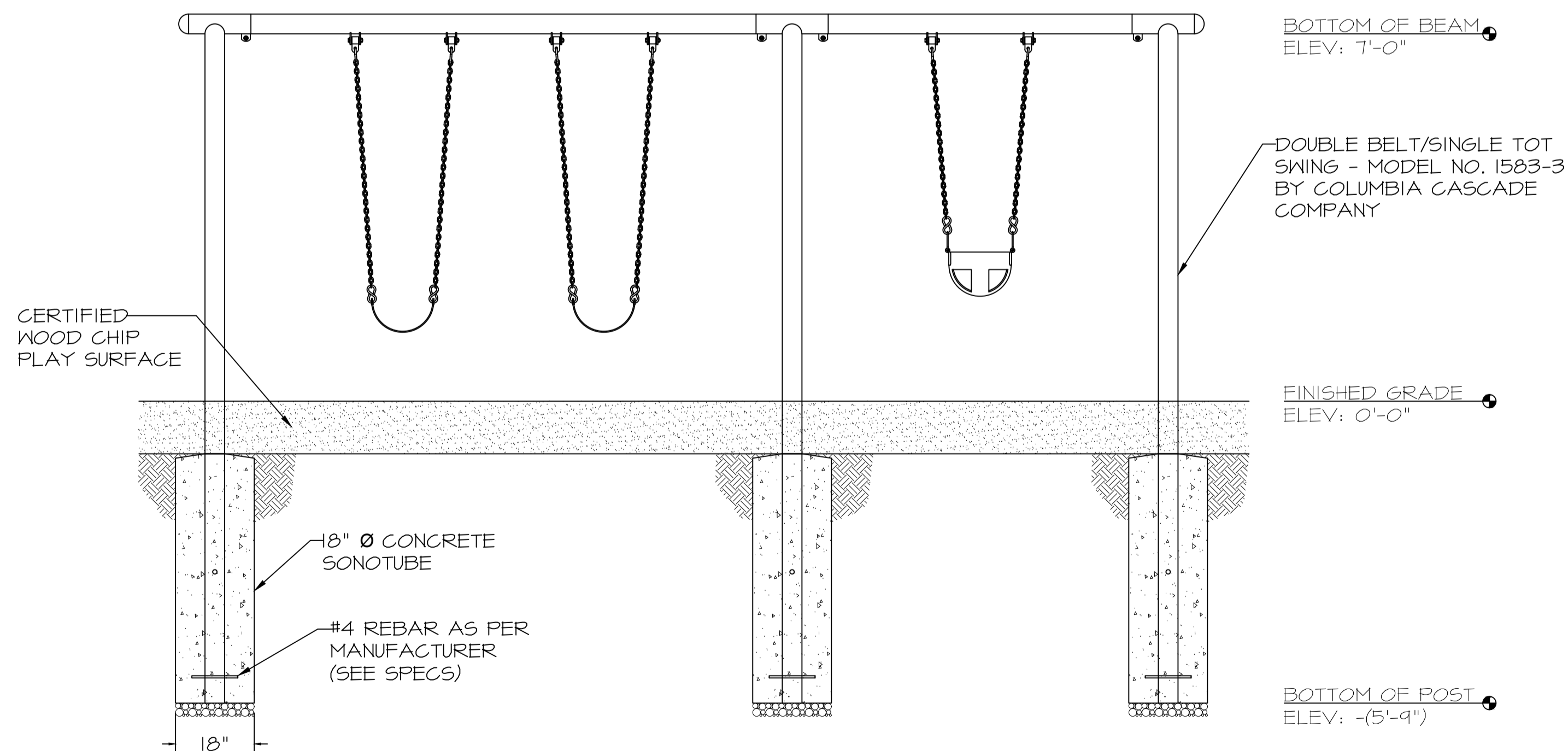
ALL CONCRETE MUST BE 4000 PSI, 5-7% AIR ENTRAINED, FIBER REINFORCED. THE CONCRETE PAD WILL HAVE A LIGHT BROOM FINISH



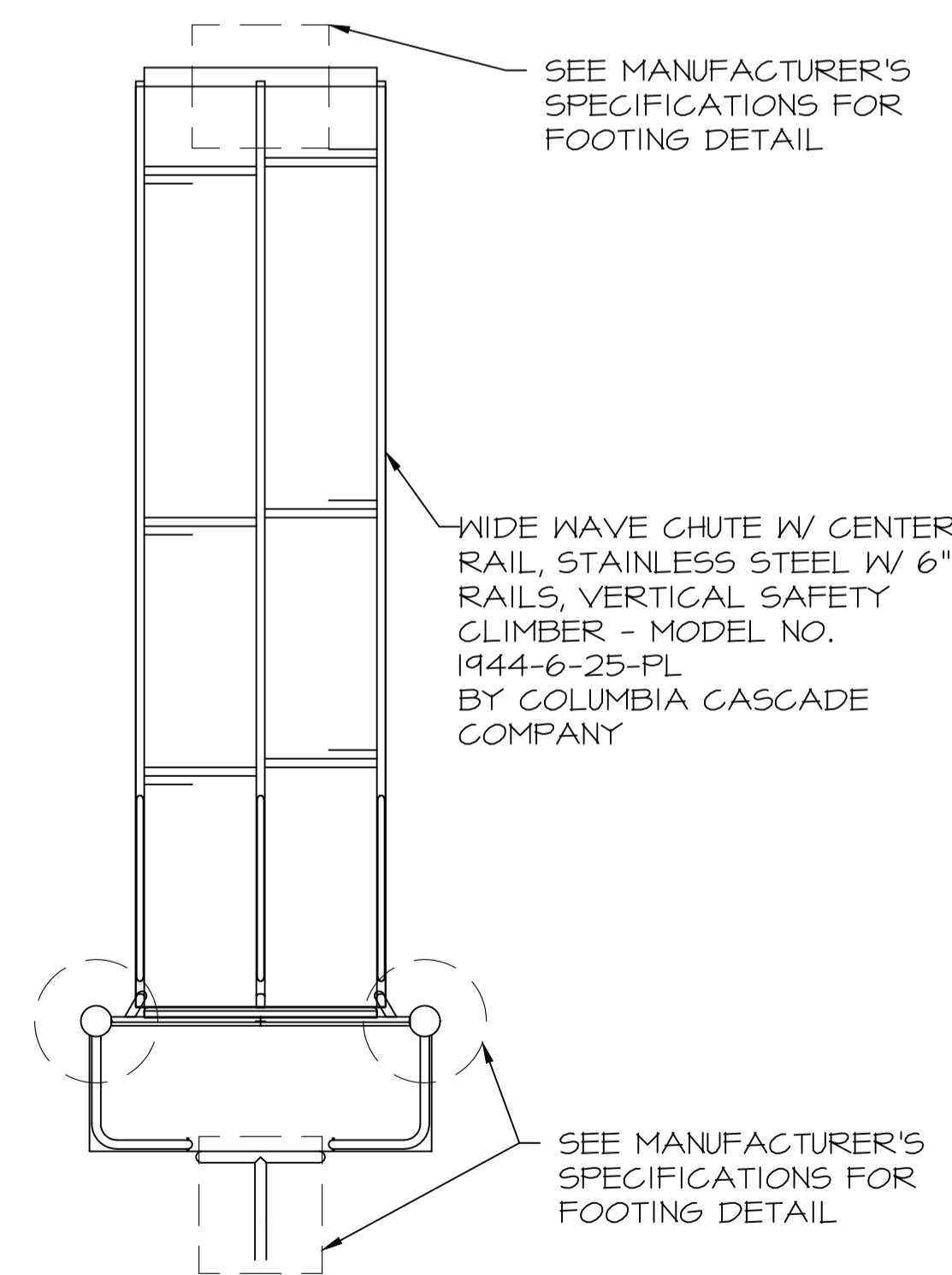
2 WATER FOUNTAIN PLAN VIEW
C-4 Scale: 1"=1'



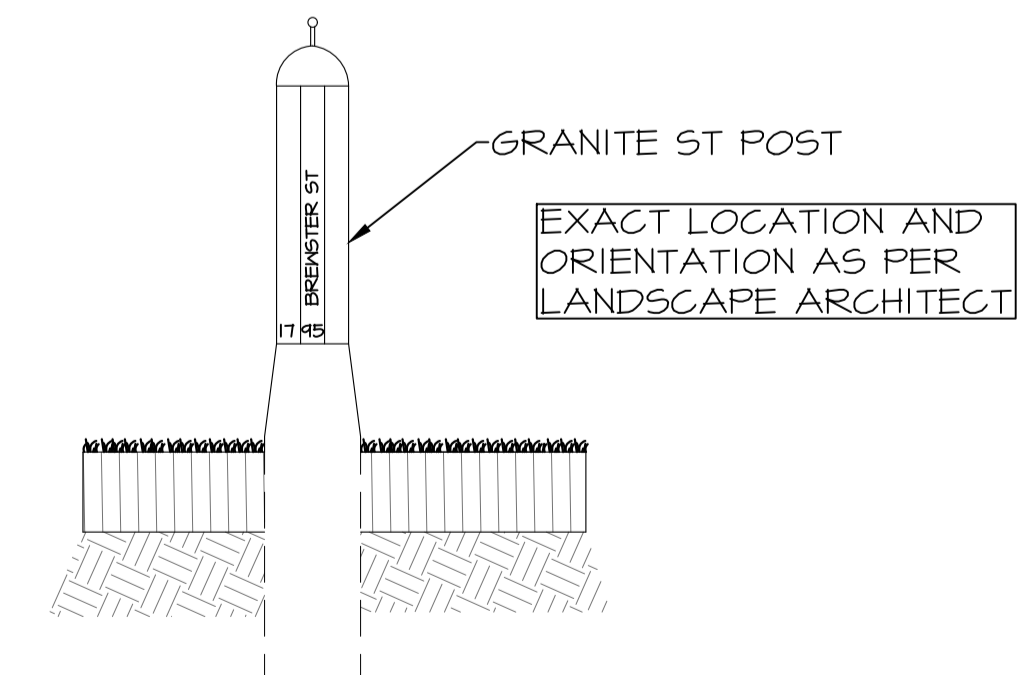
3 BASKETBALL POST
C-4 Scale: 1"=2'



4 SWINGSET DETAIL
C-4 Scale: 1"=2'



5 DOUBLE SLIDE DETAIL
C-4 Scale: 1"=2'



6 HISTORIC GRANITE BREWSTER ST PILLAR
C-4 Scale: NTS

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Issue Notes		Date	No.
3	3/7/19	3/7/19	1
2	2/13/19	2/13/19	2
1	2/7/19	2/7/19	1

Date	Revision	Project ID	Drawing Code	CAD File Name	Proj Date
3/7/19	Revision				

Design Firm	Client
Ross Engineering 909 Islington St, Suite 6 Portsmouth, NH 03801	City of Portsmouth, New Hampshire Department of Community Development

Project Title	Scale	Sheet No.
ROCK STREET PARK	SEE SHEET	C-4
DETAILS SHEET B		of 10

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EROSION AND SEDIMENTATION CONTROL GENERAL NOTES

- CONDUCT ALL CONSTRUCTION IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE PHYSICAL ENVIRONMENT, BUT IN NO CASE SHALL EXCEED 2 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- ALL DITCHES, SWALES AND PONDS MUST BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
- ALL GROUND AREAS OPENED UP FOR CONSTRUCTION WILL BE STABILIZED WITHIN 24 HOURS OF EARTH-DISTURBING ACTIVITIES BEING CEASED, AND WILL BE FULLY STABILIZED NO LONGER THAN 14 DAYS AFTER INITIATION, (SEE NOTE II FOR DEFINITION OF STABLE). ALL SOILS FINISH GRADED MUST BE STABILIZED WITHIN SEVENTY TWO HOURS OF DISTURBANCE. ALL TEMPORARY OR LONG TERM SEEDING MUST BE APPLIED TO COMPLY WITH "WINTER CONSTRUCTION NOTES" (SEE WINTER CONSTRUCTION NOTES). EMPLOY TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AS DETAILED ON THIS PLAN AS NECESSARY UNTIL ADEQUATE STABILIZATION HAS BEEN ASSURED (SEE NOTE II FOR DEFINITION OF STABLE).
- TEMPORARY & LONG TERM SEEDING: USE SEED MIXTURES, FERTILIZER, LIME AND MULCHING AS RECOMMENDED (SEE SEEDING AND STABILIZATION NOTES).
- STRAIN OR HAY BALE BARRIERS AND SILTATION FENCING TO BE SECURELY EMBEDDED AND STAKED AS DETAILED. WHEREVER POSSIBLE A VEGETATED STRIP OF AT LEAST TWENTY FIVE FEET IS TO BE KEPT BETWEEN SILT FENCE AND ANY EDGE OF NET AREA.
- SEEDED AREAS WILL BE FERTILIZED AND RE-SEEDDED AS NECESSARY TO ENSURE VEGETATIVE ESTABLISHMENT.
- SEDIMENT BASINS, IF REQUIRED, TO BE CHECKED AFTER EACH SIGNIFICANT RAINFALL AND CLEANED AS NEEDED TO RETAIN DESIGN CAPACITY.
- STRAIN BALE AND/OR SILT FENCE BARRIERS WILL BE CHECKED REGULARLY AND AFTER EACH SIGNIFICANT RAINFALL. NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER AS WELL AS CLEANING, REMOVAL AND PROPER DISPOSAL OF TRAPPED SEDIMENT.
- TREATMENT SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATIVE COVER HAS BEEN ESTABLISHED.
- AN AREA SHALL BE CONSIDERED FULLY STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED.
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN THE PLAN SHALL MEET THE DESIGN BASED ON STANDARDS AND SPECIFICATIONS SET FORTH IN THE STORM WATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE (DECEMBER 2008 OR LATEST) PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, NH, DES AND NROS.

WINTER CONSTRUCTION NOTES

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENT.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

EROSION AND SEDIMENTATION CONTROL CONSTRUCTION PHASING AND SEQUENCING

- SEE "EROSION AND SEDIMENTATION CONTROL GENERAL NOTES" WHICH ARE TO BE AN INTEGRAL PART OF THIS PROCESS.
- INSTALL SILT FENCINGS AND/OR HAY BALE BARRIERS AS PER DETAILS AND AT SEDIMENT MIGRATION.
- CONSTRUCT TREATMENT SWALES, LEVEL SPREADERS AND DETENTION STRUCTURES AS DEPICTED ON DRAWINGS.
- INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE(S) AS PER DETAIL AND AT LOCATIONS SHOWN ON THE DRAWINGS. MAINTAIN (TOP DRESS) REGULARLY TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS.
- STRIP AND STOCKPILE TOPSOIL. STABILIZE PILES OF SOIL CONSTRUCTION MATERIAL & COVER WHERE PRACTICABLE.
- MINIMIZE DUST THROUGH APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES ON SITE.
- ROUGH GRADE SITE. INSTALL CULVERTS AND ROAD DITCHES.
- FINISH GRADE AND COMPACT SITE.
- RE-SPREAD AND ADD TOPSOIL TO ALL ROADSIDE SLOPES. TOTAL TOPSOIL THICKNESS TO BE A MINIMUM OF FOUR TO SIX INCHES.
- STABILIZE ALL AREAS OF BARE SOIL WITH MULCH AND SEEDING.
- RE-SEED PER EROSION AND SEDIMENTATION CONTROL GENERAL NOTES.
- SILT FENCING AND HAY BALES TO REMAIN AND BE MAINTAINED FOR TWENTY FOUR MONTHS AFTER CONSTRUCTION TO INSURE ESTABLISHMENT OF ADEQUATE SOIL STABILIZATION AND VEGETATIVE COVER. ALL SILT FENCING, HAY BALES AND TRAPPED SILT ARE THEN TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
- PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
- PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE - BEFORE ROUGH GRADING THE SITE.
- ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- ALL CUT AND FILL SLOPES SHALL BE SEEDDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
- ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

PLANTING NOTES:

- ALL PLANT MATERIALS SHALL BE FIRST QUALITY NURSERY GROWN STOCK.
- ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH NEW HAMPSHIRE LANDSCAPE ASSOCIATION STANDARDS AND GUARANTEED FOR ONE YEAR BY THE LANDSCAPE CONTRACTOR.
- ALL TREES AND SHRUBS SHALL HAVE WATER SAUCERS BUILT AROUND THEIR BASES AND THESE SHALL BE MULCHED WITH 4" OF DARK BROWN AGED BARK MULCH. MULCH MUST BE KEPT 2" AWAY FROM THEIR TRUNKS.
- ALL TREES AND SHRUBS SHALL BE PLANTED AND MULCHED BEFORE LAWN IS SEEDDED.

MAINTENANCE REQUIREMENTS:

- ALL TREES, SHRUBS, AND PERENNIALS WILL NEED TO BE WATERED THROUGH THANKSGIVING DURING THE FIRST SEASON IN WHICH THEY ARE INSTALLED.
- AN UNDERGROUND DRIP IRRIGATION SYSTEM IS RECOMMENDED, IF AN UNDERGROUND DRIP IRRIGATION SYSTEM IS NOT INSTALLED, SOAKER HOSES WOUND THROUGHOUT PLANTING BEDS ARE ACCEPTABLE. ALTHOUGH OVERHEAD SPRINKLERS ARE RECOMMENDED FOR LAWN AREAS, THEY ARE NOT ACCEPTABLE FOR IRRIGATING TREES AND SHRUBS.

SEEDING AND STABILIZATION FOR LOAMED SITE:

FOR TEMPORARY & LONG TERM SEEDINGS USE AGRWAY'S SOIL CONSERVATION GRASS SEED OR EQUAL.
 COMPONENTS: ANNUAL RYE GRASS, PERENNIAL RYE GRASS, WHITE CLOVER, 2 FESCUES, SEED AT A RATE OF 100 POUNDS PER ACRE, FERTILIZER & LIME;
 NITROGEN (N) 50 LBS/ACRE, PHOSPHATE (P2O5) 100 LBS/ACRE, POTASH (K2O) 100 LBS/ACRE, LIME 2000 LBS/ACRE
 MULCH:
 HAY OR STRAW 1.5-2 TONS/ACRE

- A) GRADING AND SHAPING
 1) SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
- B) SEED BED PREPARATION
 1) SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 2) STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

LONG TERM SEEDING

*WELL TO MODERATELY WELL DRAINED SOILS
 FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

SEEDING MIXTURE C	#/ACRE	#/1000SF
TALL FESCUE	20	0.45
GREENING RED FESCUE	20	0.45
BIRD'SFOOT TREFLOIL	8	0.20
TOTAL	48	1.10

LIME: AT 2 TONS PER ACRE OR 100 LBS PER 1,000 S.F.
 FERTILIZER: 10 20 20 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE.
 MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING:
 SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.
 SEEDBED PREPARATION:
 SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED. SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

SHORT TERM SEEDING

*WELL TO MODERATELY WELL DRAINED SOILS
 FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

SEEDING MIXTURE C	#/ACRE	#/1000SF
FOR APRIL 1 - AUGUST 15	40	1
ANNUAL RYE GRASS		
FOR FALL SEEDING	112	2.5
WINTER RYE		

LIME: AT 1 TON PER ACRE OR 100 LBS PER 1,000 S.F.
 FERTILIZER: 10 10 10 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE.
 MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING:
 SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.

SEEDBED PREPARATION:
 SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED. SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

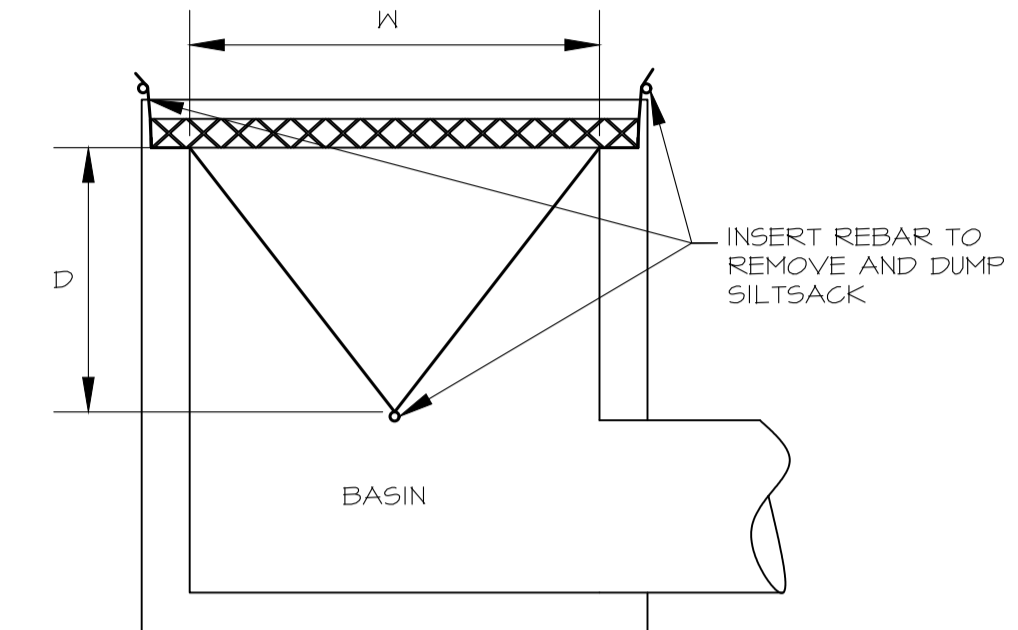
* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

STABILIZATION CONSTRUCTION ENTRANCE SPECIFICATIONS

- STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- THE THICKNESS OF THE STONE FOR THE STABILIZATION ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE GROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
- WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

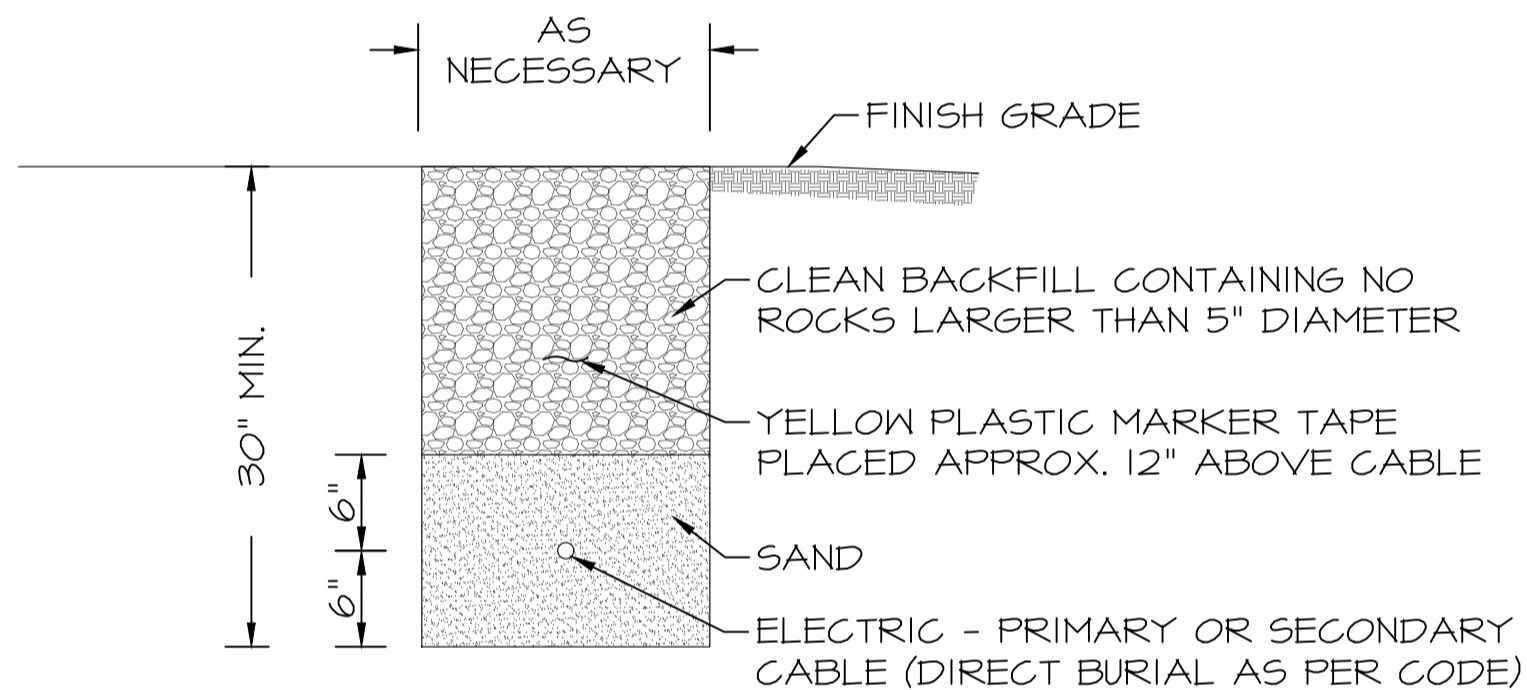
NOTES

- CONTRACTOR TO REVIEW ALL SURFACING TYPES, AND MATERIAL SPECIFICATIONS WITH COMMISSIONER OF PUBLIC WORKS.
- ALL NECESSARY NHDOT, NHDES & TOWN PERMITS MUST BE OBTAINED.
- ALL CONSTRUCTION SHALL BE PER NH-DOT, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. LATEST REVISION.
- UNDERGROUND UTILITIES SHALL MEET STATE AND TOWN REQUIREMENTS, TO ENSURE TYPE, SEPARATION, COVER, ETC.
- CATCH BASINS ON BREWSTER ST TO BE COVERED WITH A SILT SACK PRIOR TO AND DURING CONSTRUCTION.



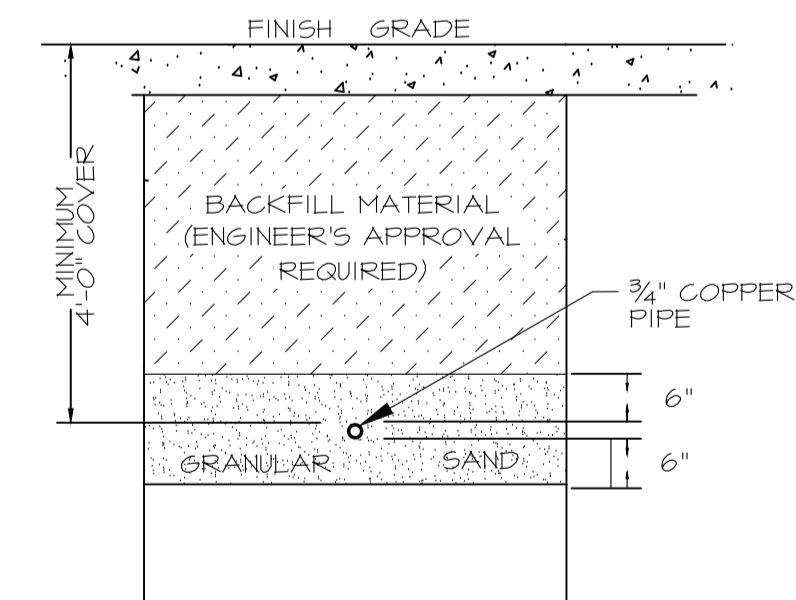
SILTSACK IS TO BE SECURED BY WEIGHT OF BASIN GRATE TO PREVENT SEDIMENT FROM ENTERING THE DRAIN LINE

SILTSACK N.T.S.



ELECTRICAL TRENCHING

Scale : 1"=1'



- NOTE:
- SEE SITE PLAN FOR PIPE SIZES AND SERVICES.
 - WATER PIPE TO BE 3/4" COPPER.
 - CONTRACTOR TO REVIEW ALL UTILITIES WITH PORTSMOUTH DPW.

WATERLINE INSTALLATION N.T.S.

ROSS ENGINEERING
 Civil/Structural Engineering & Surveying
 909 Islington St.
 Portsmouth, NH 03801
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37/19	2/13/19	2/7/19	Date
3	1	2	No.
37/19	2/13/19	2/7/19	City Review
37/19	2/13/19	2/7/19	City Review

37/19	Revision
37/19	Project ID
37/19	Drawing Code
37/19	CAD File Name
37/19	Proj Date

DD	DD	AR	AR	AR	Project Manager
DD	AR	AR	AR	AR	Project Manager

Client: **City of Portsmouth, New Hampshire**
 Department of Community Development

Project Title: **ROCK STREET PARK**
 Sheet Title: **EROSION CONTROL PLAN**

Scale: **SEE SHEET**
 Sheet No.: **C-5**
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