

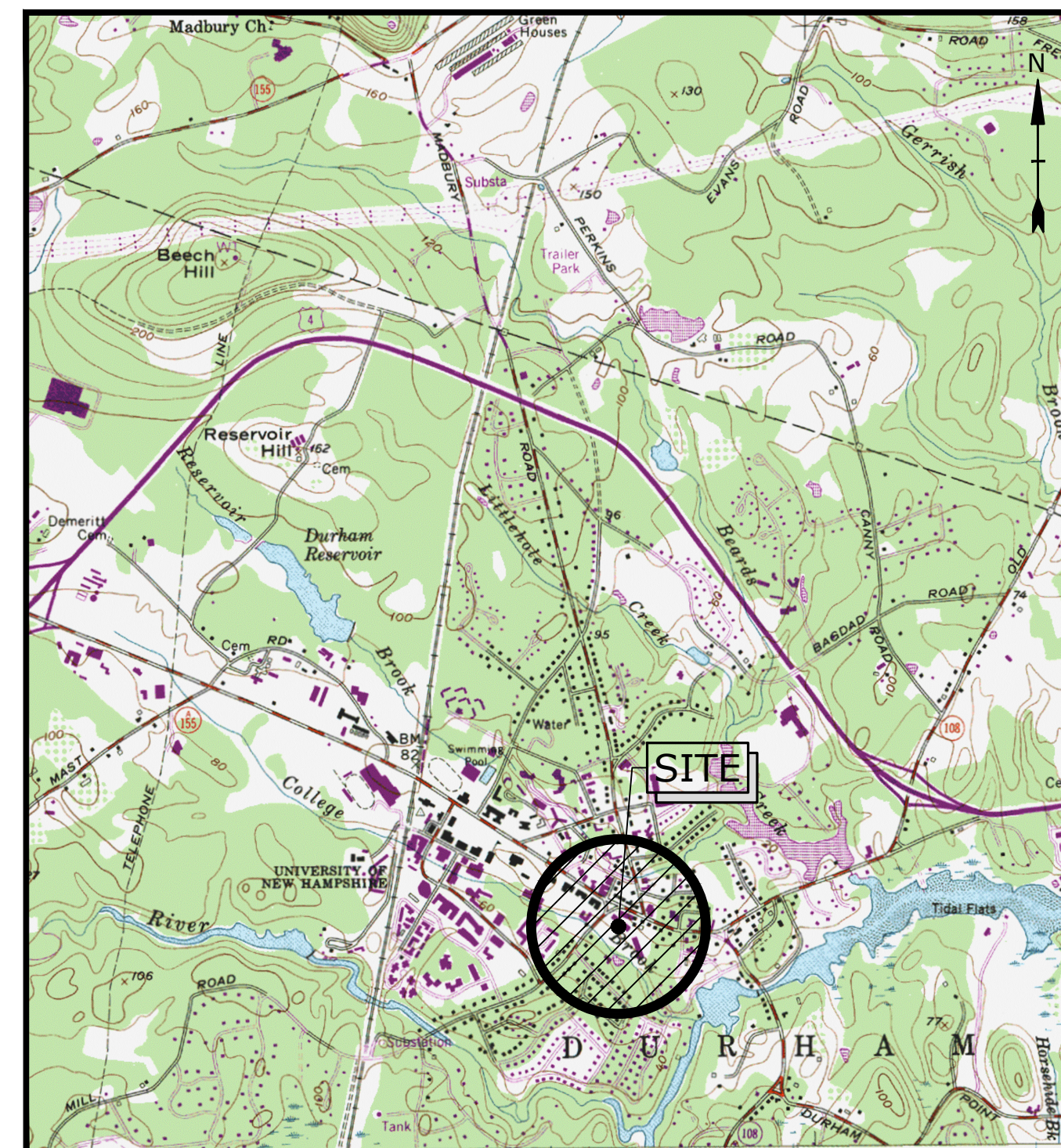
# MILL PLAZA REDEVELOPMENT

DURHAM, NEW HAMPSHIRE

# SITE PLANS

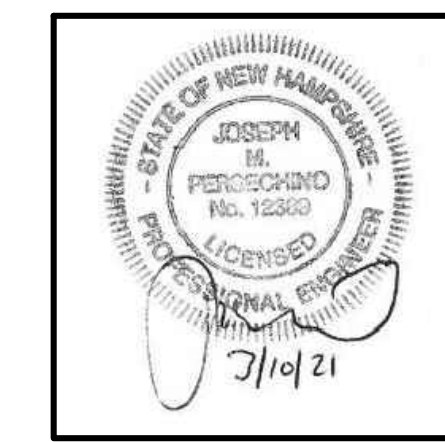
MAY 23, 2018

REVISED: MARCH 10, 2021



LIST OF DRAWINGS		
SHEET NO.	SHEET TITLE	LAST REVISED
	COVER SHEET	3/10/2021
G-101	NOTES AND LEGEND SHEET	1/2/2020
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN	3/10/2021
C-102	SITE PLAN	3/10/2021
C-103	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	3/10/2021
C-104	UTILITIES PLAN	3/10/2021
C-105	CONCEPTUAL UTILITY EASEMENT PLAN	3/10/2021
C-501	EROSION CONTROL NOTES AND DETAILS SHEET	5/20/2020
C-502	DETAILS SHEET	5/20/2020
C-503	DETAILS SHEET	3/10/2021
C-504	DETAILS SHEET	3/10/2021
C-505	DETAILS SHEET	1/2/2020
C-506	DETAILS SHEET	5/20/2020
C-507	DETAILS SHEET	3/10/2021
C-508	DETAILS SHEET	5/20/2020
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C-701	BUFFER COVERAGE PLAN	3/10/2021
C-702	BUFFER RESTORATION PLAN	3/10/2021
L2.0	LANDSCAPE OVERALL PLAN	1/20/2021
L2.1	PLANTING PLAN	1/20/2021
L2.2	PLANTING PLAN	1/20/2021
L2.3	PLANTING PLAN	1/20/2021
L2.4	ROOF PLANTING PLANS	1/20/2021
L3.0	PLANTING DETAILS	1/20/2021
L3.1	PLANTING DETAILS	1/20/2021
L3.2	PLANTING DETAILS	1/20/2021
L4.0	HARDSCAPE OVERALL PLAN	1/2/2020
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L4.2	HARDSCAPE PLAN	1/2/2020
A20.1	EXTERIOR ELEVATIONS	1/20/2021
A20.2	EXTERIOR ELEVATIONS	1/20/2021
A20.3	RENDERINGS	1/20/2021
A20.4	RENDERINGS	1/20/2021
A20.5	RENDERINGS	1/20/2021
A30.1	SITE SECTIONS	1/20/2021
A40.1	RENDERED PERSPECTIVE	1/20/2021
A40.2	RENDERED PERSPECTIVE	1/20/2021
ES10.1	ELECTRICAL SITE LIGHTING PLAN	1/20/2021
ES20.1	ELECTRICAL SITE PLAN	1/20/2021

PREPARED BY:  
**Tighe & Bond**  
 Engineers | Environmental Specialists



Joseph M. Persechino, P.E.

OWNER/APPLICANT:  
 Colonial Durham Associates, LP  
 7 Mill Road, Unit L  
 Durham, NH 03824

APPROVED DATE \_\_\_\_\_  
 DURHAM, N.H.  
 PLANNING BOARD

THE SITE PLAN REVIEW REGULATIONS OF THE TOWN OF DURHAM ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

PERMIT/APPROVAL	APPROVED	EXPIRES	NUMBER
Town of Durham Site Plan Approval	PENDING	-	-
Town of Durham Conditional Use Approval	PENDING	-	-
NHDES Sewer Connection Permit	PENDING	-	-
NHDES Alteration of Terrain Permit	PENDING	-	-

**CONSTRUCTION NOTES:**

1. THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REQUIRED DIMENSION IS NOT PROVIDED ON THE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.
3. TIGHE & BOND, ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.



**COMPLETE SET 39 SHEETS**







UTILITY POLE TABLE	
UP1	NETT/4/PSNH/7/1C
UP2	PSNH/7/1A W/EMETER & POWER DOWN
UP3	NO #S W/ POWER DOWN
UP4	BELL ATL3/PSNH/7/1B

**SPECIAL NOTE:**  
CONTRACTOR TO INSTALL INLET PROTECTION BARRIERS (SILT SACK OR APPROVED EQUAL) ON EXISTING CATCH BASINS WITHIN THE LIMIT OF WORK, REGARDLESS IF THEY ARE TO REMAIN AFTER CONSTRUCTION OR NOT. THE INLET PROTECTION BARRIER SHALL BE MAINTAINED UNTIL THE BASIN IS REMOVED OR UNTIL THE AREA DRAINING TO THE BASIN IS STABILIZED.

LINE	BEARING	LENGTH
L1	S 181°02' W	53.66
L2	N 52°35'58" W	19.00
L3	N 381°02' E	90.03
L4	N 381°02' E	35.55
L5	N 40°50'02" E	50.00
L6	N 451°02' E	50.00
L7	N 53°08'02" E	50.00
L8	N 56°28'02" E	50.00
L9	N 61°53'02" E	50.00
L10	N 70°08'02" E	50.00
L11	N 76°50'04" E	49.51
L12	N 241°44'5" E	70.11
L13	N 451°15' W	101.33
L14	N 65°59'15" W	50.72
L15	S 65°01'23" E	39.09
L16	S 22°46'30" W	24.21
L17	S 63°41'45" E	83.00
L18	S 081°41'3" E	31.64
L19	S 43°53'42" E	57.85
L20	S 42°58'39" E	18.49
L21	S 55°08'5" E	12.01
L22	N 15°04'04" E	13.33
L23	S 15°11'13" W	34.41
L24	S 69°27'57" E	43.18
L25	S 78°09'27" E	24.73

MONUMENT TABLE	
①	1" SMOOTH IRON ROD FOUND, UP 6" (HELD)
②	3/4" THREADED IRON ROD FOUND, UP 15", LOOSE & LEANING, LOCATED AT BASE
③	1" SMOOTH IRON ROD FOUND, UP 22", LOOSE & LEANING, LOCATED AT BASE (HELD)
④	1 1/4" SMOOTH IRON ROD FOUND, UP 12" (HELD)
⑤	1" SMOOTH IRON ROD FOUND, DOWN 7" (HELD)
⑥	1" IRON PIPE FOUND, WITH CRIMPED TOP, FLUSH (HELD)
⑦	5/8" RE-BAR, WITH I.D. CAP, SET UP 1"

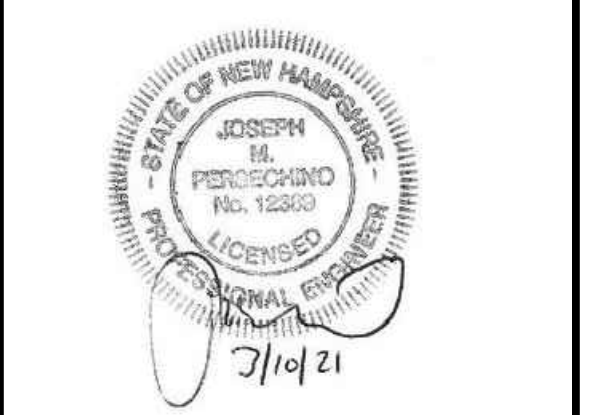
TBM TABLE (SEE EXISTING CONDITION NOTE #9)		
TBM	DESCRIPTION	ELEVATION
"A"	MAG NAIL SET UP 1" IN UTILITY POLE NETT/2/7/2 ON THE SOUTH SIDE OF MILL ROAD	37.96'
"B"	CHISLED SQUARE IN THE CONCRETE BASE OF THE SOUTHEASTERN MOST LIGHT POLE IN FRONT OF DOMINGOS PIZZA	39.67'

SEWER STRUCTURE TABLE		DRAINAGE STRUCTURE TABLE	
SMH 1127	RIM=41.8'	CB 1011	RIM=32.0'
(1) INV. 4" CIP=36.6'		(1) INV. 18" RCP=26.5'	
(2) INV. 8" ASBESTOS=32.1'		(2) INV. 24" RCP=26.8'	
(3) INV. 8" ASBESTOS=32.0'		CB 1012	RIM=31.9'
		(1) INV. 18" RCP=26.7'	
		(2) INV. 18" RCP=26.7'	
SMH 1128	RIM=41.2'	CB 1062	RIM=33.1'
(1) INV. 8" ASBESTOS=35.1'		(1) INV. 18" RCP=27.2'	
(2) INV. 8" ASBESTOS=35.0'		(2) INV. 18" RCP=27.2'	
(3) INV. 8" CIP=36.1'		DMH 1129	RIM=42.1'
		(1) INV. 6" CIP=36.4'	
		(2) INV. 8" CIP=35.1'	
		(3) INV. 8" CIP=35.2'	
SMH 1311	RIM=35.1'	DMH 1229	RIM=42.1'
(1) & (4) INV. 18" UNKNOWN CENTER CHANNEL=19.6'		(1) INV. 6" CIP=36.4'	
(2) INV. 6" UNKNOWN=20.9'		(2) INV. 8" CIP=35.1'	
(3) INV. 8" ASBESTOS=27.7'		(3) INV. 8" CIP=35.2'	
SMH 1312	RIM=41.2'	DMH 1768	RIM=34.0'
(1) & (3) INV. 18" UNKNOWN CENTER CHANNEL=18.0'		(1) INV. 12" CMP=29.8'	
(2) INV. UNKNOWN=19.4		(2) INV. 18" CMP=29.6'	
SMH 1601	RIM=34.0'	DMH 1769	RIM=34.0'
(1) & (3) INV. 18" UNKNOWN CENTER CHANNEL=19.6'		(1) INV. 12" CMP=29.8'	
(2) INV. 6" UNKNOWN=20.9'		(2) INV. 18" CMP=29.6'	
(3) INV. 8" ASBESTOS=27.7'		DMH 1770	RIM=34.0'
SMH 1765	RIM=36.7'	(1) INV. 12" CMP=24.2'	
(1) & (2) INV. 8" ASBESTOS CENTER CHANNEL=31.3'		(2) INV. 18" CMP=23.9'	
SMH 1775	RIM=29.0'	DMH 1771	RIM=34.0'
LARGE BOULDER ON COVER		INV. OUT 15" CMP=25.1'	
SMH 1927	RIM=39.3'	CB 1912	RIM=34.0'
(1) & (2) INV. 8" ASBESTOS CENTER CHANNEL=34.1'		INV. OUT 12" CMP=29.9'	
SMH 2638	RIM=32.5'	CB 2196	RIM=41.7'
(1) INV. 18" UNKNOWN CENTER CHANNEL (1) & (2) =20.7'		W/VERTICAL 12" CPP & PVC PIPES FROM BUILDING	
		INV. OUT 12" CPP=37.4'	
		CB 2198	RIM=41.2'
		(1) INV. 12" CPP=35.1'	
		(2) INV. 15" CPP=34.7'	
		CB 2214	RIM=39.4'
		(1) INV. 15" CMP=33.4'	
		(2) INV. 8" CIP=33.9'	
		(3) INV. 15" CPP=33.6'	
		(4) INV. 12" CMP=35.7'	
		(5) INV. 8" ASBESTOS=33.7'	
		DMH 2452	RIM=38.0'
		(1) INV. 8" PVC=33.3'	
		(2) INV. 15" RCP=30.4'	
		(3) INV. 15" RCP	
		CB 2453	RIM=38.3'
		INV. OUT 8" PVC=34.7'	
		CB 2504	RIM=46.7'
		SUMP ONLY	
		CB 2714	RIM=35.3'
		INV. OUT 10" CPP=32.0'	
		CB 2717	RIM=39.0'
		INV. OUT 12" CMP=35.7'	
		CB 2720	RIM=33.3'
		(1) INV. 18" RCP=27.9'	
		(2) INV. 15" RCP=28.1'	
		GRATE DRAIN	
		RIM=38.0'	
		INV. OUT 6" PVC=36.8'	

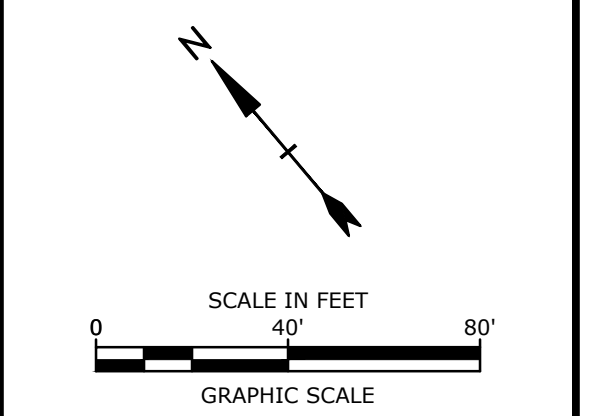
**Tighe & Bond**  
Engineers | Environmental Specialists



Harriman Project No. 16117



**PERMIT DRAWINGS**  
NOT FOR CONSTRUCTION



**Mill Plaza**  
Redevelopment

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

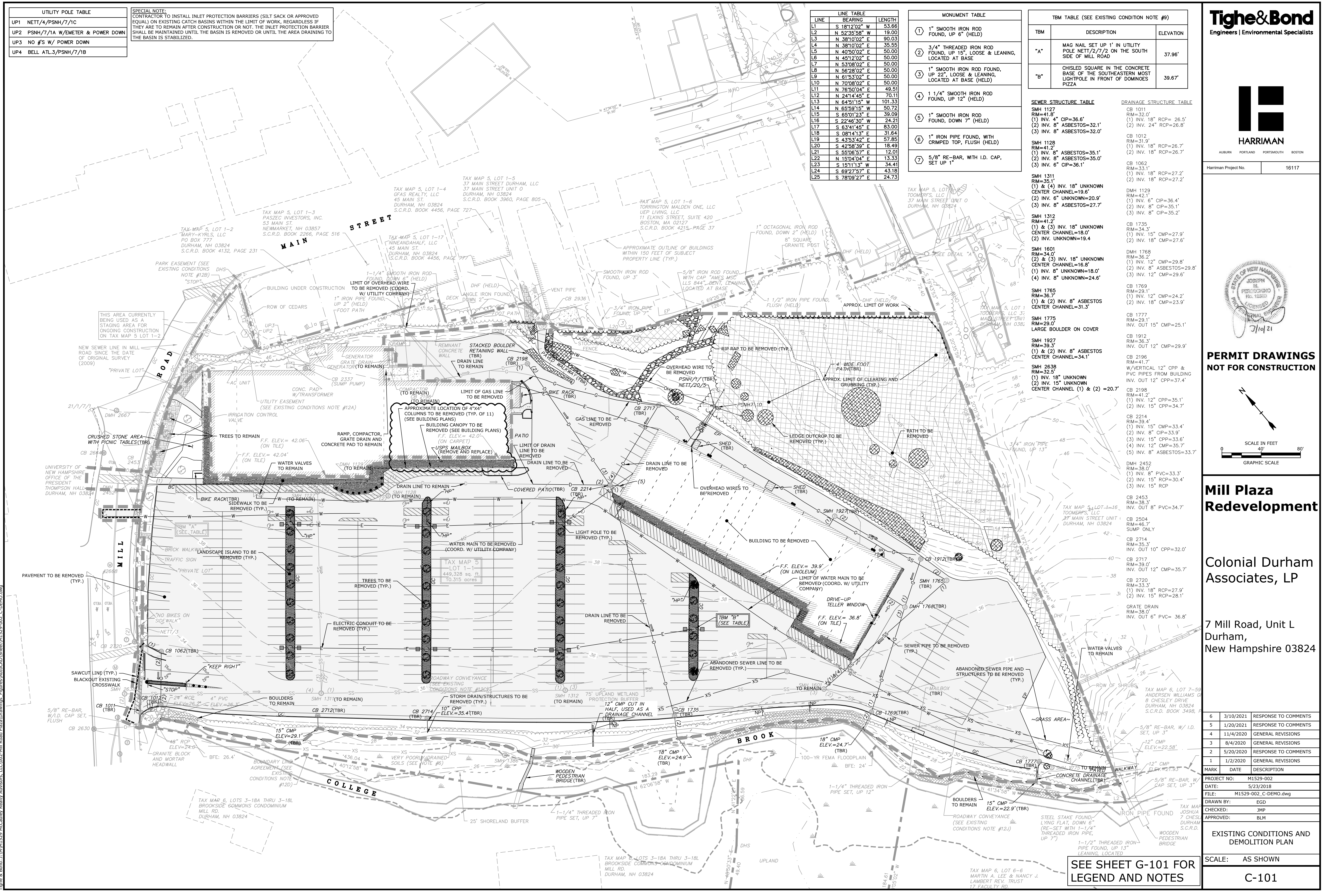
MARK	DATE	DESCRIPTION
6	3/10/2021	RESPONSE TO COMMENTS
5	1/20/2021	RESPONSE TO COMMENTS
4	11/4/2020	GENERAL REVISIONS
3	8/4/2020	GENERAL REVISIONS
2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

PROJECT NO:	M1529-002
DATE:	5/23/2018
FILE:	M1529-002_C-DEMO.dwg
DRAWN BY:	EGD
CHECKED BY:	JMP
APPROVED BY:	BLM

EXISTING CONDITIONS AND  
DEMOLITION PLAN

SCALE: AS SHOWN

C-101



SEE SHEET G-101 FOR  
LEGEND AND NOTES

L:\Projects\16117\16117-16117.dwg  
 Plotted On: 5/23/2018 10:02:10 AM  
 Title: Mill Plaza Redevelopment - Existing Conditions and Demolition Plan  
 Author: J. M. McCauley  
 Date: 5/23/2018 10:02:10 AM  
 Project: Mill Plaza Redevelopment  
 Sheet: C-101



**SITE DATA:**  
(BASED ON TOWN OF DURHAM ZONING ORDINANCE, DATE VARIES/VESTED)  
ZONING DISTRICT: CENTRAL BUSINESS DISTRICT (CB)  
PERMITTED USES: PARKING, RESTAURANT, RETAIL, OFFICES, MIXED USE/RESIDENTIAL, BANK WITH DRIVE-THROUGH

**DIMENSIONAL REQUIREMENTS:**

	REQUIRED	PROPOSED
MINIMUM LOT SIZE:	5,000 SF	449,341 SF
MINIMUM LOT AREA PER UNIT:	1,200 SF	1,742 SF (258 UNITS)
MAXIMUM OCCUPANTS:	N/A	258
MINIMUM STREET FRONTAGE:	50 FT	475 FT
MINIMUM FRONT YARD SETBACK:	N/A	N/A
SIDE SETBACK:	N/A	N/A
REAR SETBACK:	N/A	N/A
MAXIMUM IMPERVIOUS SURFACE RATIO:	100%	<100%
MAXIMUM BUILDING HEIGHT:	30 FT	<41 FT
(50 FT W/ PB APPROVAL)		
MAXIMUM BUILDING HEIGHT (MIXED USE):	4 STORIES	4 STORIES
MINIMUM BUFFER STRIP TO PROPERTY LINE:	5 FT	10 FT
MINIMUM BUFFER STRIP TO ROW:	0 FT	>10 FT

**AREA CALCULATIONS:**

	EXISTING	PROPOSED
IMPERVIOUS (SF)	275,734	287,194
EFFECTIVE IMPERVIOUS COVER (SF)	275,734	8,163

**PARKING REQUIREMENTS:**

	REQUIRED	PROPOSED
STANDARD STALL DIMENSIONS:	9 FT X 18 FT	9 FT X 18 FT
COMPACT STALL DIMENSIONS:	8 FT X 16 FT	8 FT X 16-18 FT
MINIMUM AISLE WIDTH:	22 FT	24 FT
MINIMUM DRIVEWAY WIDTH:	22 FT	24 FT
NUMBER OF ACCESSIBLE SPACES:	12 SPACES	15 SPACES
2% OF TOTAL FOR 501 TO 1000 SPACES		

**NON-RESIDENTIAL PARKING REQUIREMENTS**

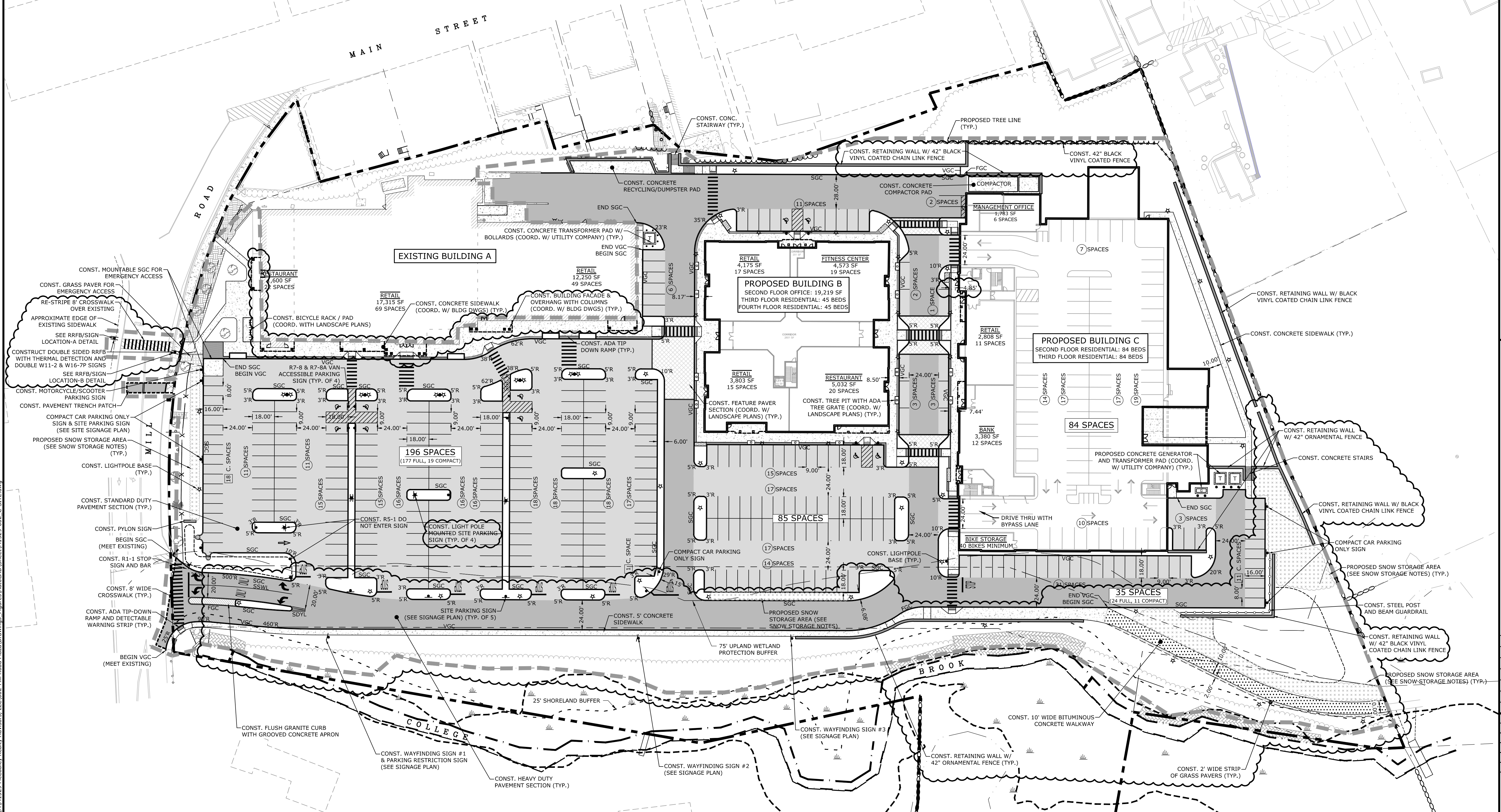
	REQUIRED	PROPOSED
BANK: 1 PER 250 SF (3,505 SF)	14 SPACES	14 SPACES
RESTAURANT <4,000 SF: 1 PER 100 SF + 1 PER EMPLOYEE (1,600 SF)	16 + 6 SPACES	16 + 6 SPACES
RESTAURANT >4,000 SF: 40 + 1 PER 200 SF OVER 4,000 SF (5,032 SF)	46 SPACES	46 SPACES
PROFESSIONAL OFFICE: 1 PER 350 SF (22,226 SF)	64 SPACES	64 SPACES
RETAIL/COMMERCIAL: 1 PER 250 SF (47,887 SF)	192 SPACES	192 SPACES
<b>NON-RESIDENTIAL TOTAL: (80,250 SF)</b>	<b>338 SPACES</b>	<b>400 SPACES</b>

**RESIDENTIAL PARKING REQUIREMENTS**

	REQUIRED	PROPOSED
DWELLING UNITS: 1 PER RESIDENT (258 BEDS)	258 SPACES	0 SPACES
<b>RESIDENTIAL TOTAL: (258 BEDS)</b>	<b>258 SPACES</b>	<b>0 SPACES</b>
<b>TOTAL PARKING REQUIREMENTS</b>	<b>596 SPACES</b>	<b>400 SPACES (1)</b>

**PARKING NOTES:**  
(1) EXISTING SITE CONTAINS 345 PARKING SPACES. THE PROPOSED 400 SPACES CONSIST OF 316 SURFACE PARKING (30 COMPACT, 286 STANDARD) PLUS 84 GARAGE SPACES.  
(2) PER AGREEMENT WITH TOWN OF DURHAM, DATED DECEMBER 14, 2015, PARKING ON SITE SHALL BE INCREASED BEYOND THE 345 SPACES THAT CURRENTLY EXIST.  
(3) SECTION 175-112.A., OF THE DURHAM ZONING ORDINANCE ALLOWS AN EXEMPTION FROM THE PARKING REQUIREMENTS IN THE CENTRAL BUSINESS DISTRICT. THIS PLAN REQUIRES AN EXEMPTION OF 196 PARKING SPACES.

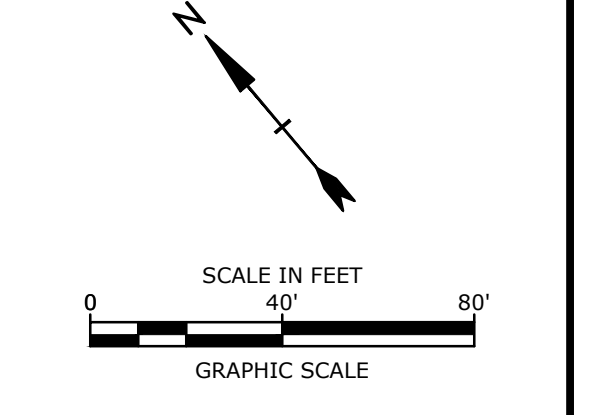
**SNOW STORAGE NOTES:**  
(1) SNOW SHALL NOT BE STORED ALONG COLLEGE BROOK OR IN THE PROPOSED STORMWATER TREATMENT AREAS, INCLUDING THE GRAVEL WETLAND AND RAIN GARDEN.  
(2) SNOW THAT CANNOT BE STORED ON SITE SHALL BE REMOVED FROM THE SITE.  
(3) SNOW STORAGE AND REMOVAL OPERATIONS SHALL AVOID DAMAGING LANDSCAPING TO THE EXTENT FEASIBLE. LANDSCAPING THAT HAS BEEN DAMAGED SHALL BE REPLACED.



Harriman Project No. 16117



**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
6	3/10/2021	RESPONSE TO COMMENTS
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PROJECT NO: M1529-002  
DATE: 5/23/2018  
FILE: M1529-002\_C-SITE.dwg  
DRAWN BY: EGD  
CHECKED: JMP  
APPROVED: BLM

SITE PLAN  
SCALE: AS SHOWN  
C-102

Date Saved: 3/10/2021  
 Plotted On: Mar 10, 2021 1:13:37pm By: Ebdoremus  
 Tighe & Bond: J:\M1529 McCauley Realty Advisors, LLC\002-Mill Plaza\Drawings - Figures\AutoCAD\Sheet\M1529-002\_C-SITE.dwg

SEE SHEET G-101 FOR  
LEGEND AND NOTES



**DRAINAGE STRUCTURE TABLE**

CB 1011  
RIM=32.0'  
(1) INV. 18" RCP=26.5'  
(2) INV. 24" RCP=26.8'

CB 1012  
RIM=31.9'  
(1) INV. 18" RCP=26.7'  
(2) INV. 18" RCP=26.7'

CB 1062  
RIM=33.1'  
(1) INV. 18" RCP=27.2'  
(2) INV. 18" RCP=27.2'

DMH 1129  
RIM=42.1'  
(1) INV. 6" CIP=36.4'  
(2) INV. 8" CIP=35.1'  
(3) INV. 8" CIP=35.2'

CB 1735  
RIM=34.3'  
(1) INV. 15" CMP=27.9'  
(2) INV. 18" CMP=27.6'

DMH 1768  
RIM=36.2'  
(1) INV. 12" CMP=29.8'  
(2) INV. 8" ASBESTOS=29.8'  
(3) INV. 12" CMP=29.6'

CB 1769  
RIM=32.5'  
(1) INV. 12" CMP=27.6'  
(2) INV. 18" CMP=27.3'

CB 1777  
RIM=29.1'  
INV. OUT 15" CMP=25.1'

CB 1912  
RIM=36.3'  
INV. OUT 12" CMP=29.9'

CB 2196  
RIM=41.7'  
W/VERTICAL 12" CPP & PVC PIPES FROM BUILDING  
INV. OUT 12" CPP=37.4'

CB 2198  
RIM=41.2'  
(1) INV. 12" CPP=35.1'  
(2) INV. 15" CPP=34.7'

CB 2214  
RIM=39.4'  
(1) INV. 15" CMP=33.4'  
(2) INV. 8" CIP=33.9'  
(3) INV. 15" CPP=33.6'  
(4) INV. 12" CMP=33.7'  
(5) INV. 8" ASBESTOS=33.7'

DMH 2452  
RIM=38.0'  
(1) INV. 6" PVC=33.3'  
(2) INV. 15" RCP=30.4'  
(3) INV. 15" RCP

CB 2453  
RIM=38.3'  
INV. OUT 8" PVC=34.7'

CB 2504  
RIM=46.7'  
SUMP ONLY

CB 2714  
RIM=35.3'  
INV. OUT 10" CPP=32.0'  
(1) INV. 12" CMP=35.7'

CB 2717  
RIM=32.0'  
INV. OUT 12" CMP=35.7'

CB 2720  
RIM=33.1'  
(1) INV. 18" RCP=27.9'  
(2) INV. 15" RCP=28.1'

GRATE DRAIN  
RIM=38.0'  
INV. OUT 6" PVC=36.8'

CONTRACTOR TO VERIFY CONDITION OF EXISTING 24" RCP AND REPORT TO ENGINEER PRIOR TO CONSTRUCTION

**DRAINAGE STRUCTURE TABLE**

STRUCTURE NAME	RIM	INV. IN	INV. OUT
PCB-1*	36.20		31.20 W
PCB-2*	35.50		30.50 S
PCB-3*	34.45		29.95 E
PCB-4*	35.25		29.90 NE
PCB-5*	38.70		33.70 NE
PCB-6*	35.75		30.45 SW
PCB-7*	38.75		25.35 SW
PCB-8	35.90	31.45 NW	31.45 SE
PCB-9	35.95	31.25 NW	31.25 SE
PCB-10	37.10	30.95 NW	30.95 SE
PCB-10	39.45		34.45 SE
PCB-11	37.60	32.00 N 30.75 NW	30.75 SE
PCB-12	38.60	30.45 NW	30.45 E
PCB-13	40.50	33.70 NE 33.70 NW	33.60 S
PCB-14	41.05	34.45 NE	34.45 SW
PCB-15	41.00	35.00 NW	34.90 SW
PCB-16	41.25		36.25 SE
PCB-17	41.10	35.70 NW	35.60 SE
PCB-18	42.15		37.25 W
PCB-19	41.40	35.20 NE	35.10 SW
PCB-20	41.40	34.90 NE	34.80 SW
PCB-21	41.30	36.40 NW 34.65 NE	34.55 SW
PCB-22	41.40	34.25 NE	34.15 SW
PCB-23	40.65		27.95 SW
PCB-24	31.90		27.05 E
PCB-25*	49.50		39.70 SW
PCB-26	35.95		31.50 SE
PCDS-1	39.70	28.50 NE	28.50 E
PDMM-2	35.90	35.40 NW 30.40 NE	26.70 SE
PDMM-3	41.90	35.40 NW 36.95 E	35.30 SW
PDMM-4	41.60	34.25 NW 34.25 NE	34.15 SW
PDMM-5	39.80	33.50 NE 30.20 W	30.10 S
PDMM-6 (600)	39.95	29.75 N 28.40 W	27.80 SE
PDMM-7 (600)	40.15	27.15 SW 25.75 NW	25.65 SE
PDMM-8	34.15	29.00 SE 27.85 NW	27.80 SW
PDMM-9	32.00	27.50 NE 27.00 W	26.90 SE
PDMM-10 (600)	38.00	25.50 NW 34.00 N	25.40 S
PDMM-11 (600)	31.40	23.00 N 24.20 NW	22.70 SW
PDMM-12	39.85	26.40 SE	26.40 NE
PDMM-13	34.75	29.85 W 29.85 N	29.75 SE
PDMM-14	35.40	29.80 SW 29.00 NW	28.95 SE
PDMM-15	38.85	28.00 NW 33.60 SW	27.90 SE
PDMM-16	49.50	39.00 NE	34.55 S
POS-1 (SEE DETAIL)	33.50	30.93 SE	29.15 NW
POS-2 (SEE DETAIL)	28.50	24.33 NW	24.33 SE
POS-3 (SEE DETAIL)	39.00	27.45 NE 26.45 NW	

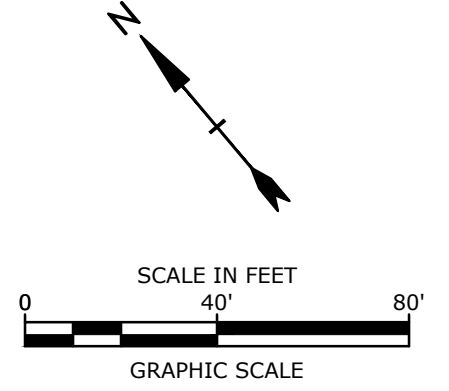
\*STRUCTURE TO HAVE OIL-WATER SEPARATOR



Harriman Project No. 16117



**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
6	3/10/2021	RESPONSE TO COMMENTS
5	1/20/2021	RESPONSE TO COMMENTS
4	11/4/2020	GENERAL REVISIONS
3	8/4/2020	GENERAL REVISIONS
2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

PROJECT NO: M1529-002  
DATE: 5/23/2018  
FILE: M1529-002\_C-GRAD.dwg  
DRAWN BY: EGD  
CHECKED: JMP  
APPROVED: BLM

GRADING, DRAINAGE AND  
EROSION CONTROL PLAN

SCALE: AS SHOWN

C-103

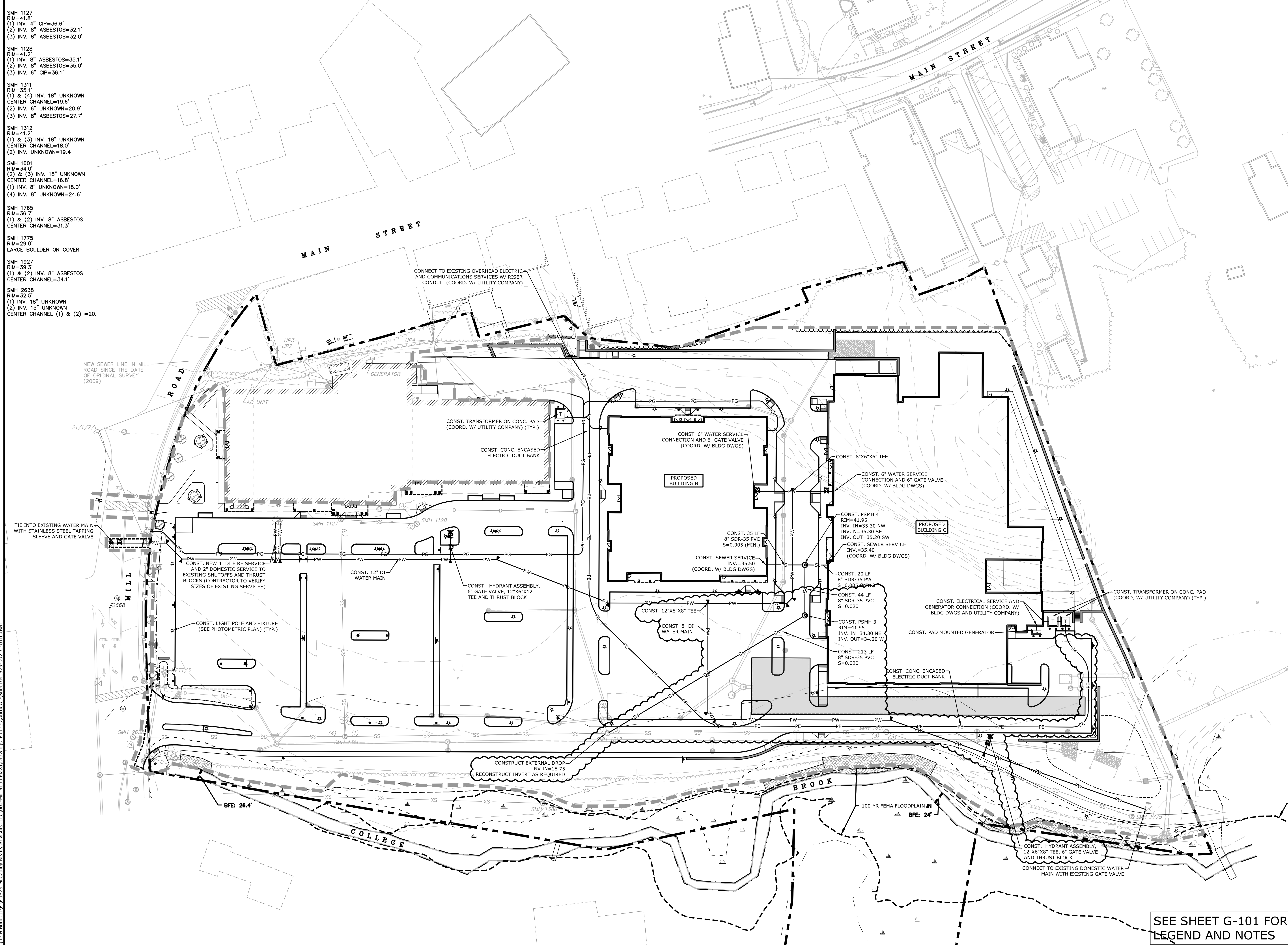
SEE SHEET G-101 FOR  
LEGEND AND NOTES

Lot: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



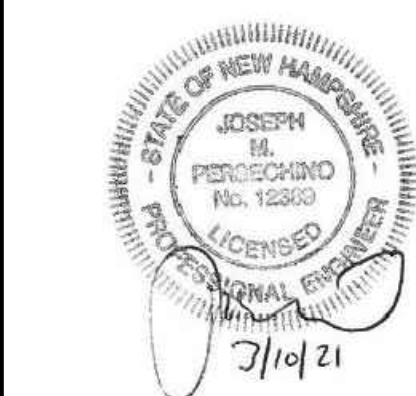
SEWER STRUCTURE TABLE

- SMH 1127  
RIM=41.8'  
(1) INV. 4" CIP=36.6'  
(2) INV. 8" ASBESTOS=32.1'  
(3) INV. 8" ASBESTOS=32.0'
- SMH 1128  
RIM=41.2'  
(1) INV. 8" ASBESTOS=35.1'  
(2) INV. 8" ASBESTOS=35.0'  
(3) INV. 6" CIP=36.1'
- SMH 1311  
RIM=35.1'  
(1) & (4) INV. 18" UNKNOWN  
CENTER CHANNEL=19.6'  
(2) INV. 6" UNKNOWN=20.9'  
(3) INV. 8" ASBESTOS=27.7'
- SMH 1312  
RIM=41.2'  
(1) & (3) INV. 18" UNKNOWN  
CENTER CHANNEL=18.0'  
(2) INV. UNKNOWN=19.4
- SMH 1601  
RIM=34.0'  
(2) & (3) INV. 18" UNKNOWN  
CENTER CHANNEL=16.8'  
(1) INV. 8" UNKNOWN=18.0'  
(4) INV. 8" UNKNOWN=24.6'
- SMH 1765  
RIM=36.7'  
(1) & (2) INV. 8" ASBESTOS  
CENTER CHANNEL=31.3'
- SMH 1775  
RIM=29.0'  
LARGE BOULDER ON COVER
- SMH 1927  
RIM=39.3'  
(1) & (2) INV. 8" ASBESTOS  
CENTER CHANNEL=34.1'
- SMH 2638  
RIM=32.5'  
(1) INV. 18" UNKNOWN  
(2) INV. 15" UNKNOWN  
CENTER CHANNEL (1) & (2) =20.

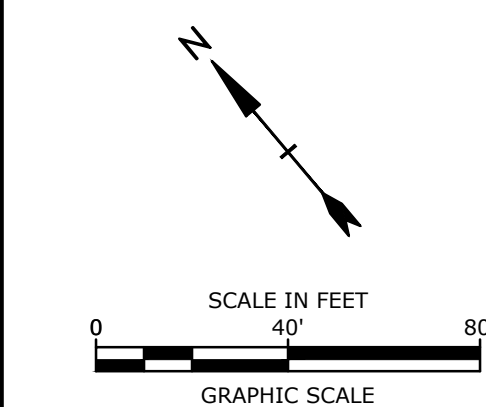


HARRIMAN

Harriman Project No. 16117



**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

6	3/10/2021	RESPONSE TO COMMENTS
5	1/20/2021	RESPONSE TO COMMENTS
4	11/4/2020	GENERAL REVISIONS
3	8/4/2020	GENERAL REVISIONS
2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS
MARK	DATE	DESCRIPTION
PROJECT NO: M1529-002		
DATE: 5/23/2018		
FILE: M1529-002_C-UTIL.dwg		
DRAWN BY: EGD		
CHECKED: JMP		
APPROVED: BLM		

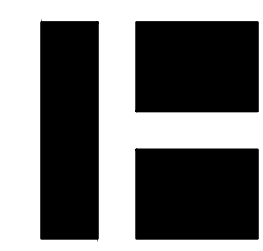
UTILITIES PLAN

SCALE: AS SHOWN

C-104

SEE SHEET G-101 FOR  
LEGEND AND NOTES





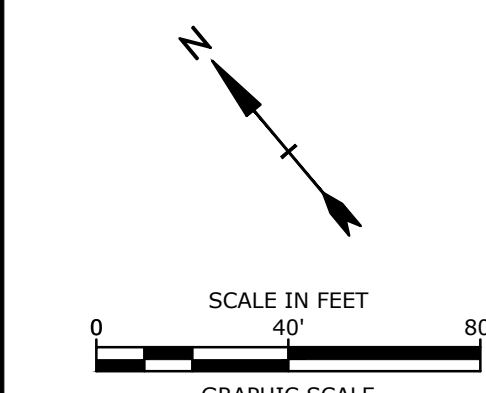
HARRIMAN

AUBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117



**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
PROJECT NO:	M1529-002	
DATE:	3/10/2021	
FILE:	M1529-002_C-ESMT.dwg	
DRAWN BY:	EGD	
CHECKED:	JMP	
APPROVED:	BLM	

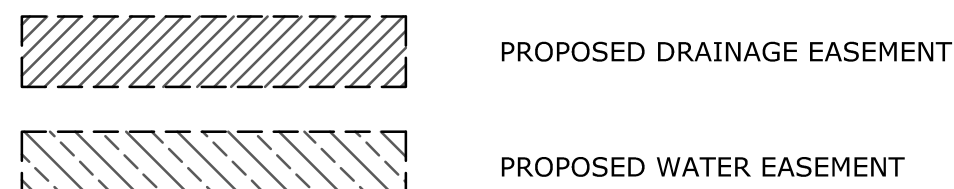
**CONCEPTUAL UTILITY  
EASEMENT PLAN**

SCALE: AS SHOWN

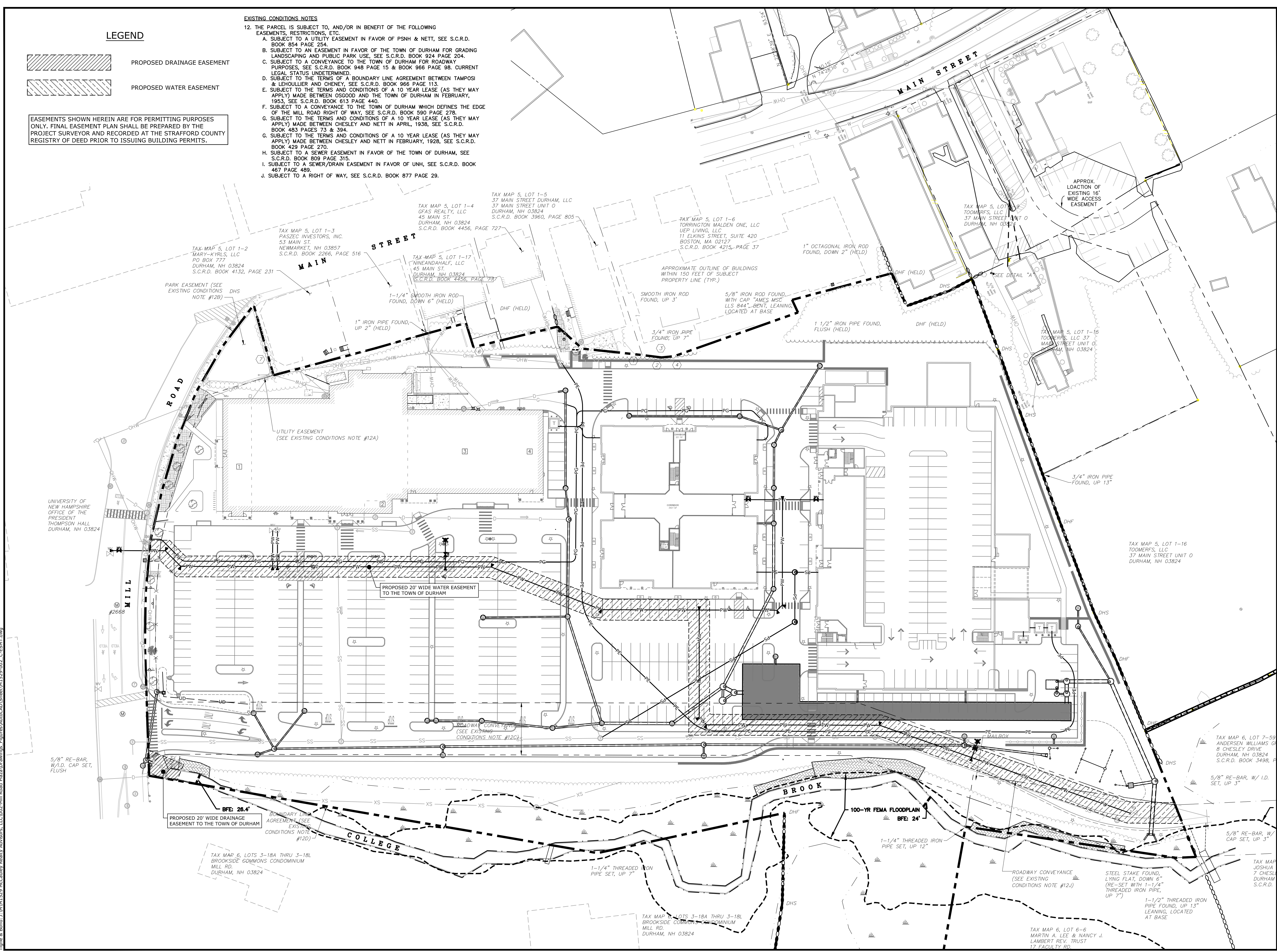
C-105

- EXISTING CONDITIONS NOTES**
12. THE PARCEL IS SUBJECT TO, AND/OR IN BENEFIT OF THE FOLLOWING EASEMENTS, RESTRICTIONS, ETC.
    - A. SUBJECT TO A UTILITY EASEMENT IN FAVOR OF PSNH & NETT, SEE S.C.R.D. BOOK 854 PAGE 254.
    - B. SUBJECT TO AN EASEMENT IN FAVOR OF THE TOWN OF DURHAM FOR GRADING, LANDSCAPING AND PUBLIC PARK USE, SEE S.C.R.D. BOOK 924 PAGE 204.
    - C. SUBJECT TO A CONVEYANCE TO THE TOWN OF DURHAM FOR ROADWAY PURPOSES, SEE S.C.R.D. BOOK 948 PAGE 15 & BOOK 966 PAGE 98. CURRENT LEGAL STATUS UNDETERMINED.
    - D. SUBJECT TO THE TERMS OF A BOUNDARY LINE AGREEMENT BETWEEN TAMPOSI & LEHOULLIER AND CHENEY, SEE S.C.R.D. BOOK 966 PAGE 113.
    - E. SUBJECT TO THE TERMS AND CONDITIONS OF A 10 YEAR LEASE (AS THEY MAY APPLY) MADE BETWEEN OSGOOD AND THE TOWN OF DURHAM IN FEBRUARY, 1953, SEE S.C.R.D. BOOK 613 PAGE 440.
    - F. SUBJECT TO A CONVEYANCE TO THE TOWN OF DURHAM WHICH DEFINES THE EDGE OF THE MILL ROAD RIGHT OF WAY, SEE S.C.R.D. BOOK 890 PAGE 278.
    - G. SUBJECT TO THE TERMS AND CONDITIONS OF A 10 YEAR LEASE (AS THEY MAY APPLY) MADE BETWEEN CHESLEY AND NETT IN APRIL, 1938, SEE S.C.R.D. BOOK 483 PAGES 73 & 394.
    - H. SUBJECT TO THE TERMS AND CONDITIONS OF A 10 YEAR LEASE (AS THEY MAY APPLY) MADE BETWEEN CHESLEY AND NETT IN FEBRUARY, 1928, SEE S.C.R.D. BOOK 429 PAGE 270.
    - I. SUBJECT TO A SEWER/DRAIN EASEMENT IN FAVOR OF THE TOWN OF DURHAM, SEE S.C.R.D. BOOK 809 PAGE 315.
    - J. SUBJECT TO A SEWER/DRAIN EASEMENT IN FAVOR OF UNH, SEE S.C.R.D. BOOK 467 PAGE 489.
    - K. SUBJECT TO A RIGHT OF WAY, SEE S.C.R.D. BOOK 877 PAGE 29.

**LEGEND**



EASEMENTS SHOWN HEREIN ARE FOR PERMITTING PURPOSES ONLY. FINAL EASEMENT PLAN SHALL BE PREPARED BY THE PROJECT SURVEYOR AND RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEED PRIOR TO ISSUING BUILDING PERMITS.



Date: 3/10/2021  
 Plotted On: 3/10/2021 11:44am By: E.Doramus  
 Tighe & Bond: J:\M1529-McCluskey-Realty-Advisors-LLC\002-Mill Plaza\Drawings- Figures\AutoCAD\Sheet\M1529-002\_C-ESMT.dwg



**GENERAL PROJECT INFORMATION**

PROJECT OWNER: COLONIAL DURHAM ASSOCIATES  
405 PARK, 12 FLOOR  
NEW YORK, NY 10022  
PROJECT NAME: MILL ROAD PLAZA  
PROJECT ADDRESS: 7 MILL ROAD, DURHAM, NH 03804  
PROJECT MAP / LOT: MAP 5/ LOT 1-1  
PROJECT LATITUDE: 43°-07'-58"N  
PROJECT LONGITUDE: 70°-55'-30"W

**PROJECT DESCRIPTION**

THE PROJECT CONSISTS OF THE DEMOLITION OF A 24,000 SF RETAIL BUILDING AND EXISTING PARKING LOT AS WELL AS THE CONSTRUCTION OF A NEW PARKING LOT AND TWO (2) NEW ASSOCIATED BUILDINGS INCLUDING RETAIL, HOUSING AND A PARKING GARAGE. THE WORK IS ANTICIPATED TO START IN 2019, AND BE COMPLETED BY 2020.

**DISTURBED AREA**

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 7.5 ACRES.

**SOIL CHARACTERISTICS**

BASED ON THE USCS SITE SPECIFIC SOIL SURVEY CONDUCTED BY LUKE HARLEY OF GOVE ENVIRONMENTAL SERVICES, ON MAY 4, 2018 THE SOILS ON SITE CONSIST OF UDHORTENS, BUXTON, AND HOLLIS SOILS WHICH ARE POORLY DRAINED SOILS WITH HYDROLOGIC SOIL GROUP RATING(S) OF C AND D

**NAME OF RECEIVING WATERS**

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA OVERLAND FLOW TO A CLOSED DRAINAGE SYSTEM, TREATED VIA VARIOUS STORMWATER TREATMENT DEVICES PRIOR TO DISCHARGE TO COLLEGE BROOK.

**CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:**

- 1. CUT AND CLEAR TREES.
- 2. CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:
  - NEW CONSTRUCTION
  - DEVELOPMENT OF BORROW PIT AREAS
  - DISPOSAL OF SEWAGE SPOIL, SLUMP AND OTHER SOLID WASTE
  - FLOOD PLAIN EXCAVATION WORK
  - STREAM CHANNEL MODIFICATIONS
  - CONSTRUCTION OF ACCESS AND HAUL ROAD
  - NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS
- 3. ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMP'S PRIOR TO DIRECTING RUNOFF TO THEM.
- 4. CLEAR AND DISPOSE OF DEBRIS.
- 5. CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
- 6. GRADE AND GRAVEL ROADWAYS AND PARKING AREAS - ALL ROADS AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 7. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 8. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
- 9. FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
- 10. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 12. REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

**SPECIAL CONSTRUCTION NOTES:**

- 1. THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.
- 2. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 3. LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO THE EXCAVATION AND THE ASSOCIATED WATERS ARE COMPLETE AND STABLE - THIS NOTE IS APPLICABLE TO SINGLE/DUPLEX FAMILY SUBDIVISIONS, WHEN LOT DEVELOPMENT IS NOT PART OF THE PERMIT.

NOTE: THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.

**EROSION CONTROL NOTES:**

- 1. ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" PREPARED BY THE NHDES.
- 2. PRIOR TO ANY WORK OR SOIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EROSION CONTROL MEASURES AS REQUIRED IN THE PROJECT MANUAL.
- 3. CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL BARRIERS, INCLUDING HAY BALE, SILT FENCES, MULCH BERMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE DRAWINGS AS THE FIRST ORDER OF WORK.
- 4. SILT SACK INLET PROTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- 5. PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN STABILIZED.
- 6. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
- 7. ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND FERTILIZER.
- 8. INSPECT ALL INLET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
- 9. CONSTRUCT EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1.

**STABILIZATION:**

- 1. AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:
  - A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
  - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
  - C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
  - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 2. WINTER STABILIZATION PRACTICES:
  - A. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, 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 EVENTS;
  - B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
  - C. AFTER NOVEMBER 15, 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, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;
- 3. STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:
  - A. TEMPORARY SEEDING;
  - B. MULCHING.
- 4. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT, ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
- 5. DURING CONSTRUCTION RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY NOVEMBER 15.

**DUST CONTROL:**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
- 2. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.
- 3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ADJACENT AREAS.

**STOCKPILES:**

- 1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM COLLEGE BROOK, CATCH BASINS, SWALES, AND CULVERTS.
- 2. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
- 3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
- 4. PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

**OFF SITE VEHICLE TRACKING:**

- 1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

**VEGETATION:**

- 1. TEMPORARY GRASS COVER:
  - A. SEEDBED PREPARATION:
    - 1. APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE;
  - B. SEEDING:
    - 1. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
    - 2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED;
    - 3. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER), HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING;
  - C. MAINTENANCE:
    - 1. TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
    - 2. VEGETATIVE PRACTICE:
      - A. FOR PERMANENT MEASURES AND PLANTINGS:
        - 1. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;

- 2. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER;
- 3. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING NOT LESS THAN 5-12 POUNDS PER INCH OF WIDTH;
- 4. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED, ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE RAKED TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH;
- 5. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE;
- 6. SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT COVERING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEDED, AND ALL NOXIOUS WEEDS REMOVED;
- 7. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;
- 8. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SEED MIX	APPLICATION RATE
CREeping RED FESCUE	60 % WEIGHT
TALL FESCUE	30 % WEIGHT
REDOp	10% WEIGHT

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.

- 3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL):
  - A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.

**CONCRETE WASHOUT AREA:**

- 1. CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM COLLEGE BROOK AND A MINIMUM OF 150 FEET AWAY FROM STORM DRAINS, SWALES, AND SURFACE WATERS OR DELINEATED WETLANDS;
- 2. THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE:
  - A. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY;
  - B. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO CONTROL OF DUST;
  - C. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

**ALLOWABLE NON-STORMWATER DISCHARGES:**

- 1. FIRE-FIGHTING ACTIVITIES;
- 2. FIRE HYDRANT FLUSHING;
- 3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
- 4. WATER USED TO CONTROL DUST;
- 5. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
- 6. ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
- 7. PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
- 8. UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;
- 9. UNCONTAMINATED GROUND WATER OR SPRING WATER;
- 10. FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;
- 11. UNCONTAMINATED EXCAVATION Dewatering;
- 12. LANDSCAPE IRRIGATION.

**WASTE DISPOSAL:**

- 1. WASTE MATERIAL:
  - A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
  - B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED;
  - C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- 2. HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
- 3. SANITARY WASTE:
  - A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

**SPILL PREVENTION:**

- 1. CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW. THE FOLLOWING ARE THE BEST MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
  - A. GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
    - 1. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE;
    - 2. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE;
    - 3. MANUFACTURER'S RECOMMENDED DISPOSAL METHODS SHALL BE FOLLOWED;
    - 4. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
    - 5. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
    - 6. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
  - B. HAZARDOUS MATERIALS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
    - 1. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
    - 2. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;
    - 3. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.
  - C. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
    - 1. PETROLEUM PRODUCTS:
      - ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
      - PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
    - 2. FERTILIZERS:
      - FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
      - ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
      - STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALED PLASTIC BIN TO AVOID SPILLS.
    - 3. PAINTS:
      - ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
      - EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
      - EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
    - D. SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
      - 1. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
      - 2. MATERIALS AND EQUIPMENT FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA OR SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;
      - 3. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
      - 4. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE;
      - 5. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
      - 6. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
    - E. VEHICLE FUELING AND MAINTENANCE PRACTICE:
      - 1. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICAL FUELING AND MAINTENANCE AT AN OFF-SITE FACILITY;
      - 2. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY;
      - 3. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;
      - 4. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
      - 5. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE;
      - 6. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.

**EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES**

THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE SWPPP SHALL BE PREPARED BY THE ENGINEER. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP ON SITE AT ALL TIMES.

THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT:

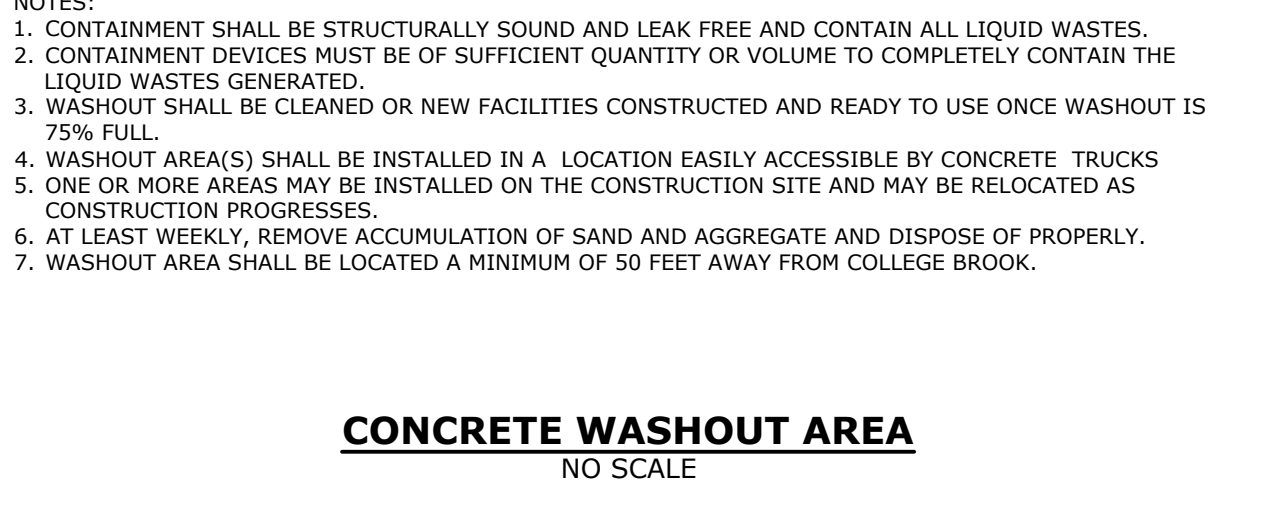
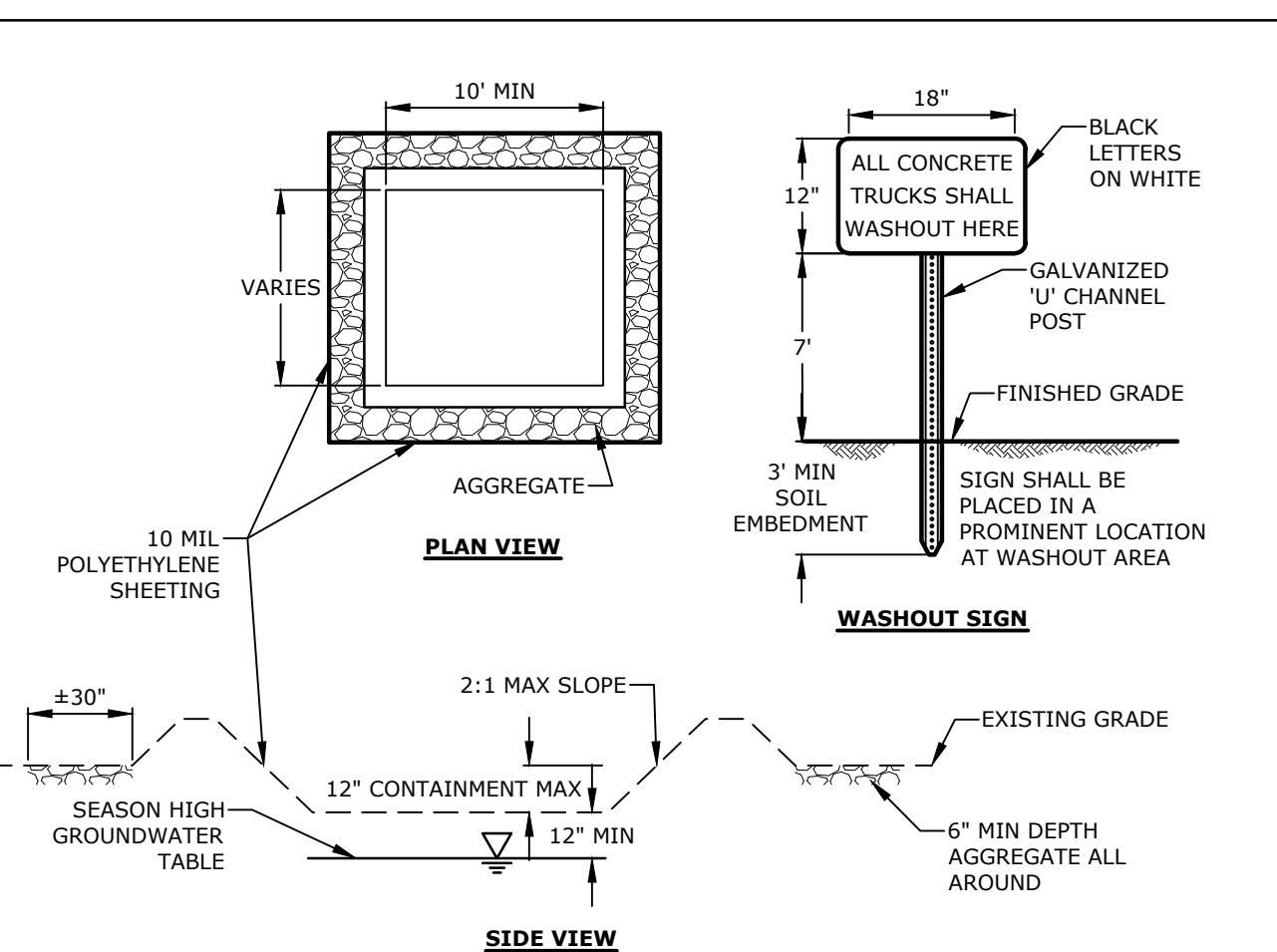
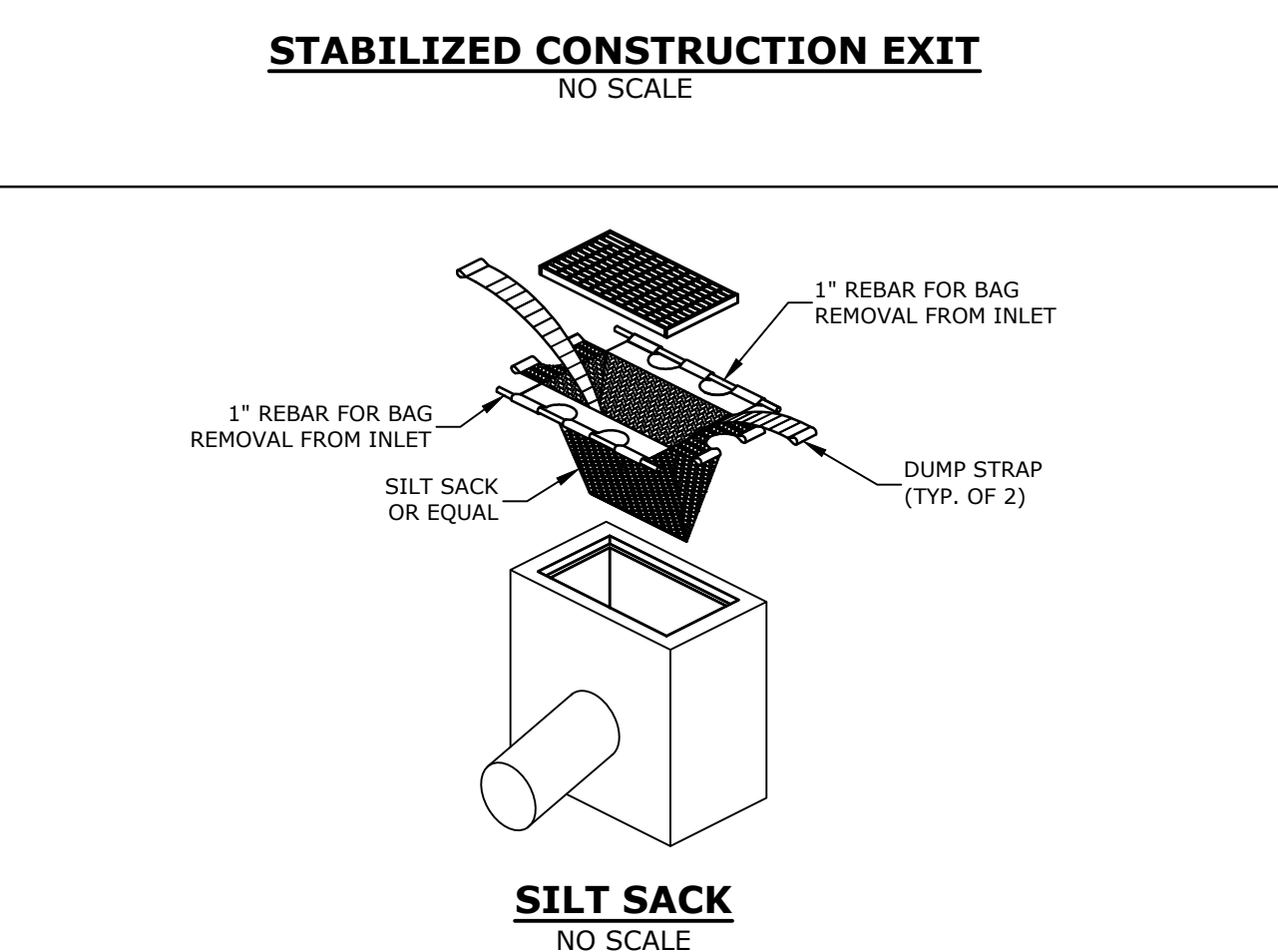
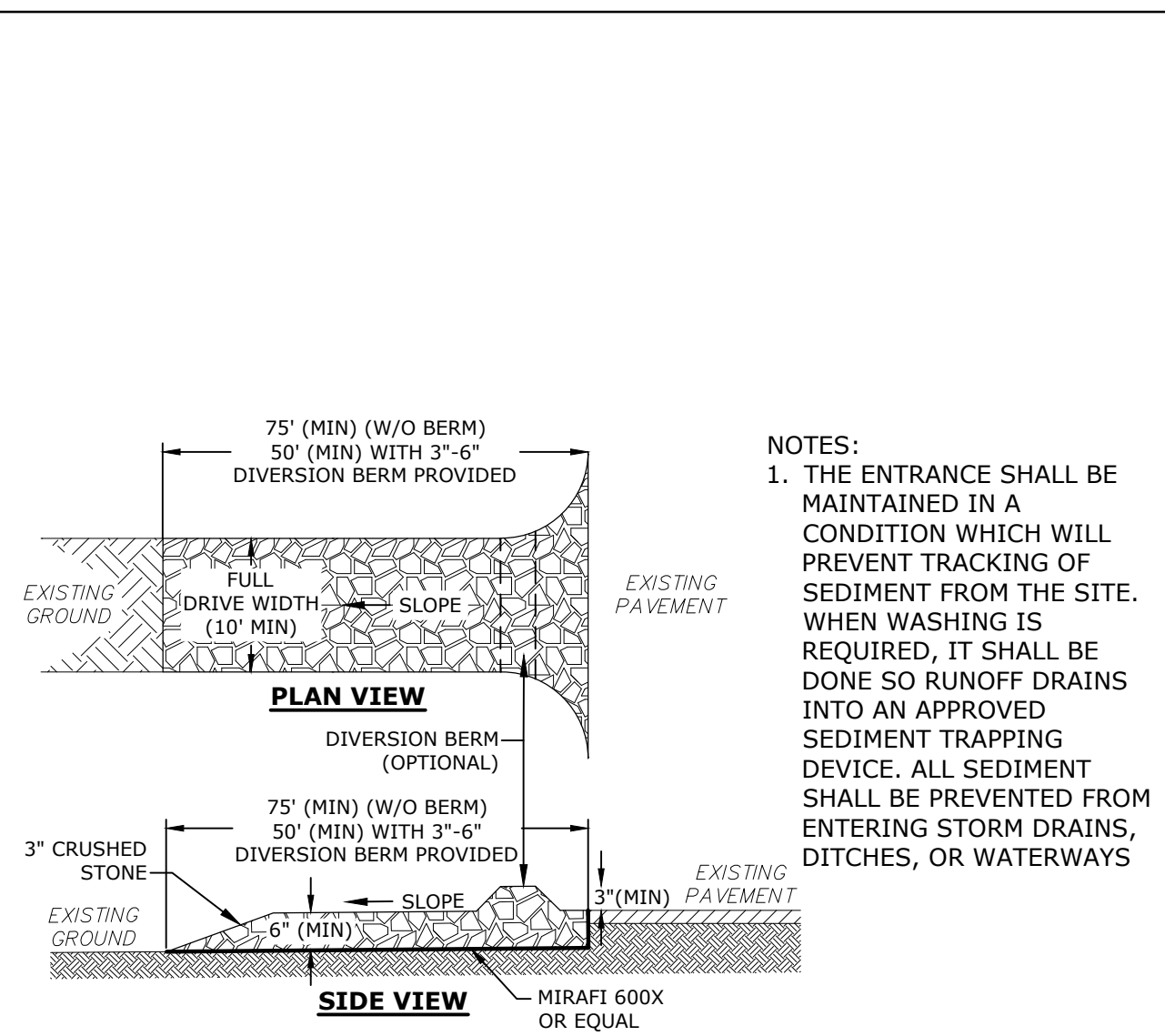
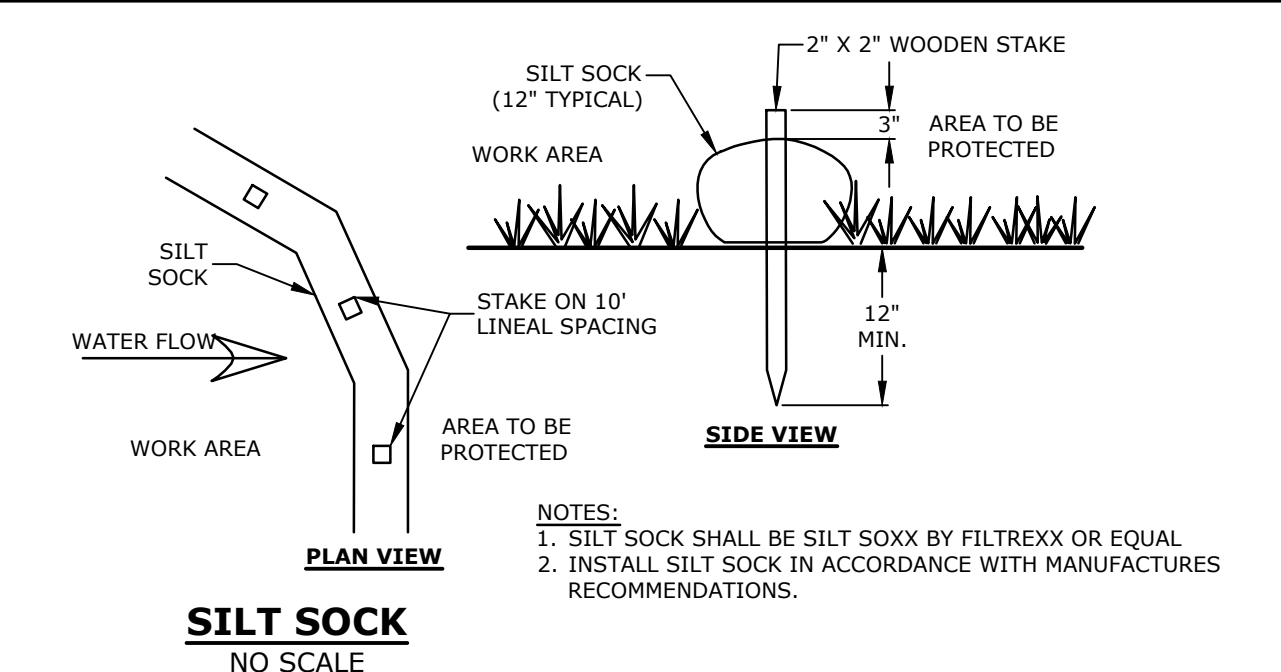
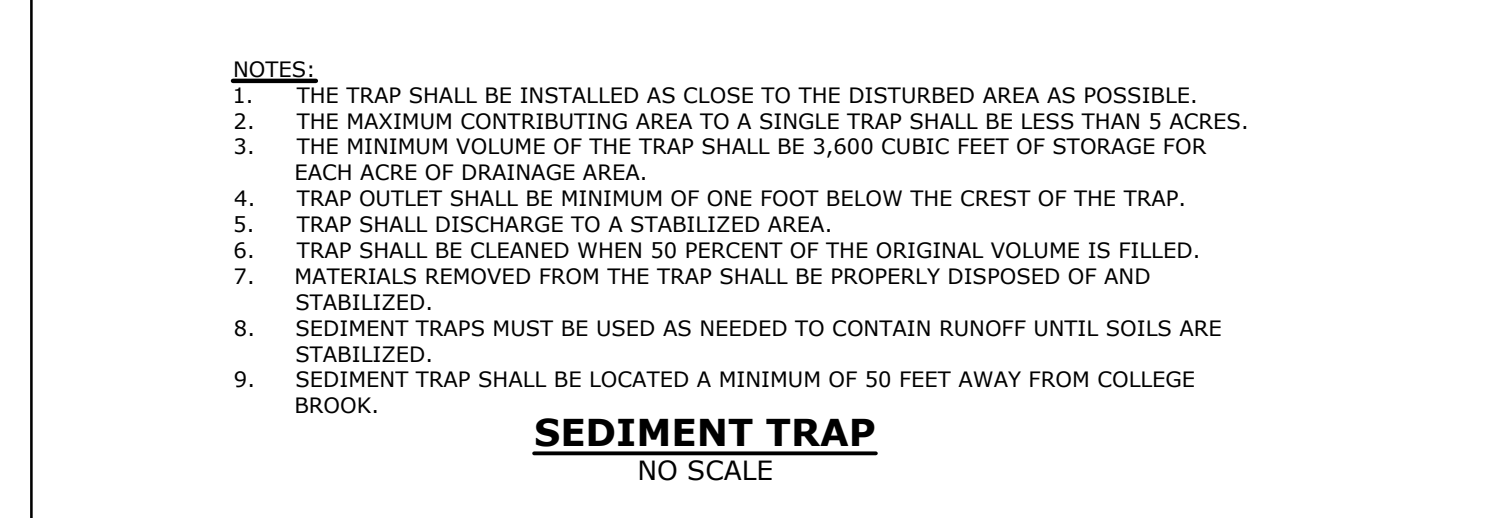
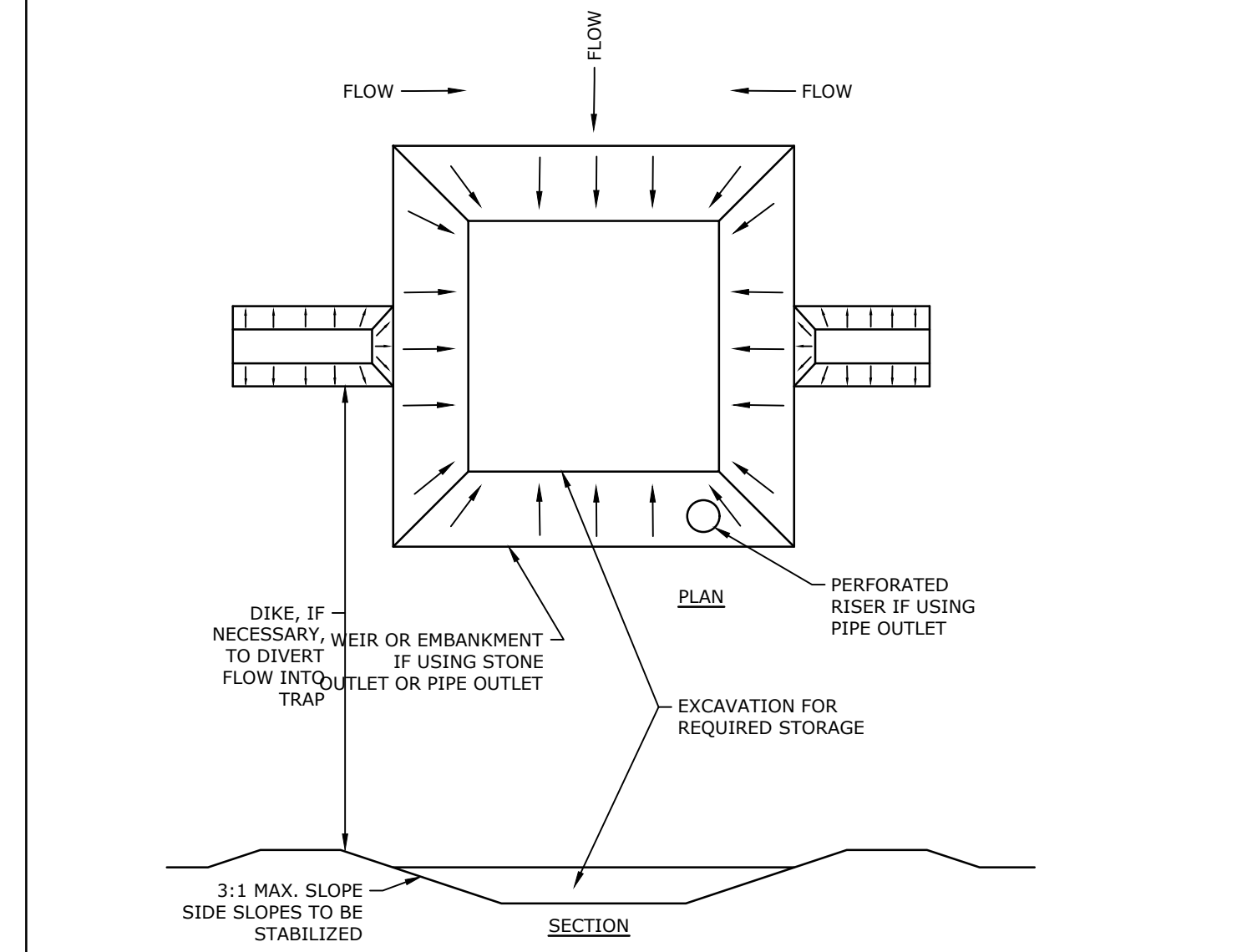
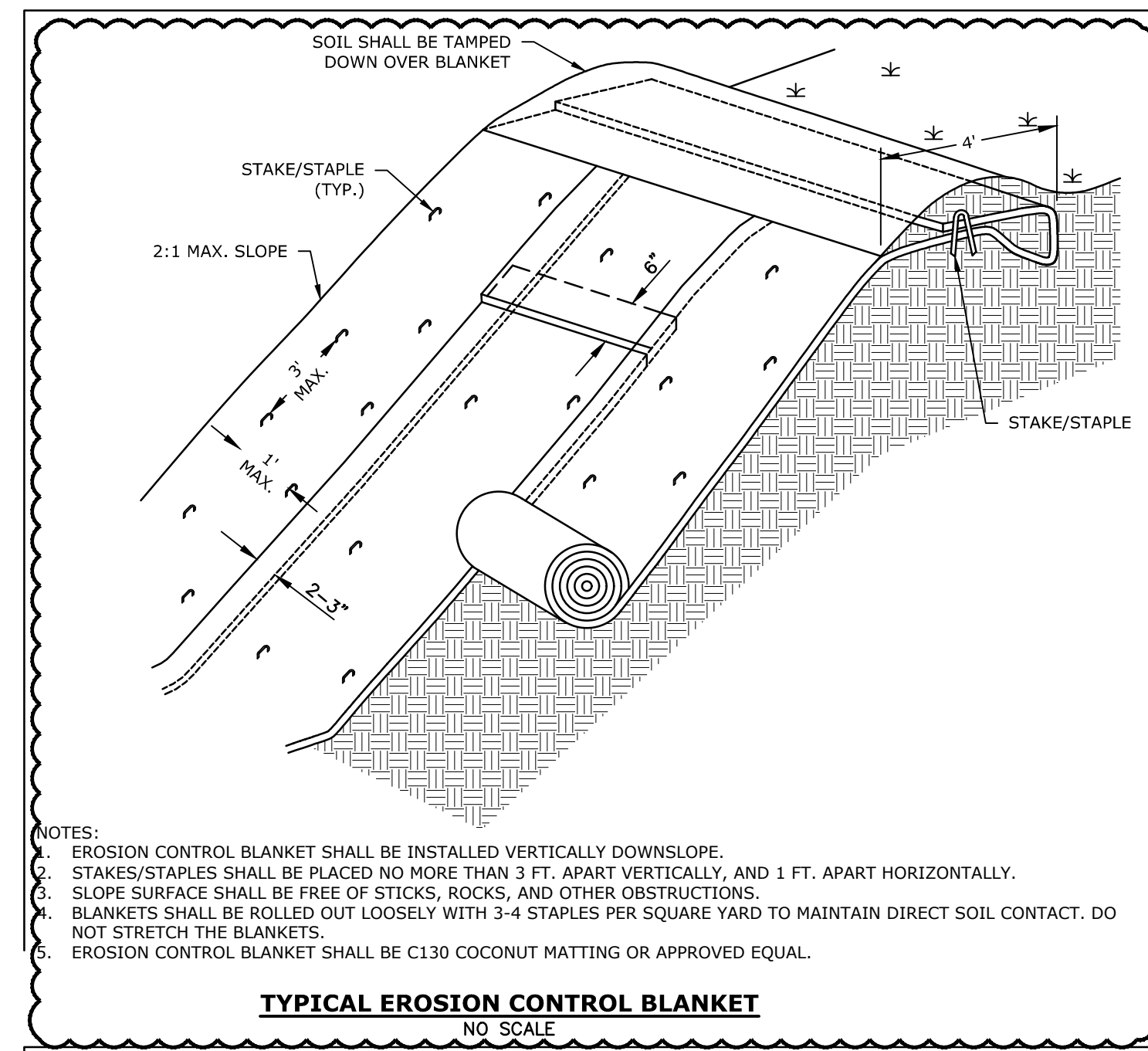
- 1. OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY THE CONTRACTOR AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER;
- 2. AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR;
- 3. A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES;
- 4. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

**BLASTING NOTES:**

- 1. IF MORE THAN 5000 CUBIC YARDS ARE TO BE BLASTED A BLASTING PLAN SHALL BE PROVIDED. THE BLASTING PLAN SHALL INCLUDE:
  - A. LOCATION AND IDENTIFICATION OF DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES;
  - B. A GROUNDWATER QUALITY SAMPLING PROGRAM, APPROVED BY NHDES PRIOR TO INITIATING BLASTING, TO MONITOR FOR CHANGE IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL. THE DATE AND METHOD OF EITHER IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA.
    - 1. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES.
- 2. THE FOLLOWING MANAGEMENT PRACTICES FOR BLASTING SHALL BE COMPLIED WITH:
  - A. LOADING PRACTICES - THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
    - 1. DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND VIBRO, CHARGES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS;
    - 2. EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR OFF-SITE DISPOSAL IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
  - B. SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL;

- 4. LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED;
- 5. LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT;
- 6. EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.

- B. EXPLOSIVE SELECTION - THE FOLLOWING BMP'S SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
  - 1. EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION;
  - 2. EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER
- C. PREVENTION OF MISFIRES, APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.
- D. MUCK PILES MANAGEMENT - MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
  - 1. REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE;
  - 2. MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.
- E. SPILL PREVENTION MEASURES AND SPILL MITIGATION - SPILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:
  - 1. THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
    - STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE;
    - SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
    - LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY;
    - INSPECT STORAGE AREAS WEEKLY;
    - COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
    - WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS;
    - SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
  - 2. THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
    - EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
    - PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
    - HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
    - USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES;
    - PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
  - 3. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OR RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
  - 4. FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES. THESE REQUIREMENTS ARE SUMMARIZED IN NH-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS SUCCESSOR DOCUMENT. [HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PFF/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF](http://des.nh.gov/organization/commissioner/pff/factsheets/dwgb/documents/dwgb-22-6.pdf)



**CONCRETE WASHOUT AREA**

NO SCALE

**Tighe & Bond**  
Engineers | Environmental Specialists



Harriman Project No. 16117

16117



**PERMIT DRAWINGS**  
NOT FOR CONSTRUCTION

**Mill Plaza**  
Redevelopment

**Colonial Durham**  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
6	3/10/2021	RESPONSE TO COMMENTS
5	1/20/2021	RESPONSE TO COMMENTS
4	11/4/2020	GENERAL REVISIONS
3	8/4/2020	GENERAL REVISIONS
2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

PROJECT NO: M1529-002  
DATE: 5/23/2018  
FILE: M1529-002\_C-DTLS.dwg  
DRAWN BY: EGD  
CHECKED: JMP  
APPROVED: BLM

**EROSION CONTROL NOTES AND**  
DETAIL SHEET

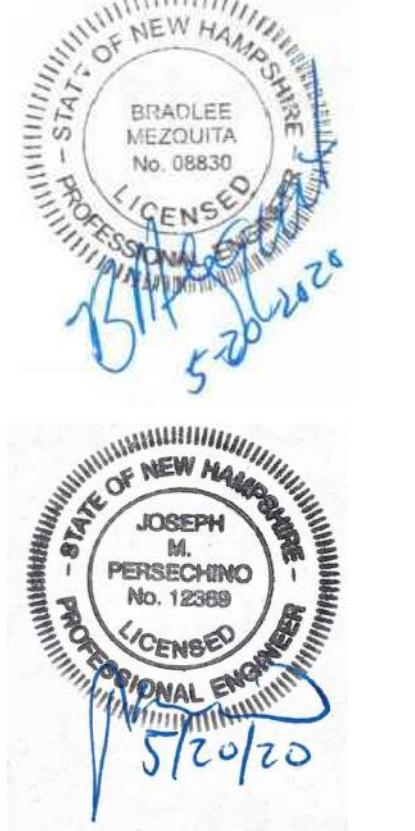
SCALE: AS SHOWN

C-501





Harriman Project No. 16117



**PERMIT DRAWINGS**  
NOT FOR CONSTRUCTION

**Mill Plaza**  
**Redevelopment**

Colonial Durham  
Associates, LP

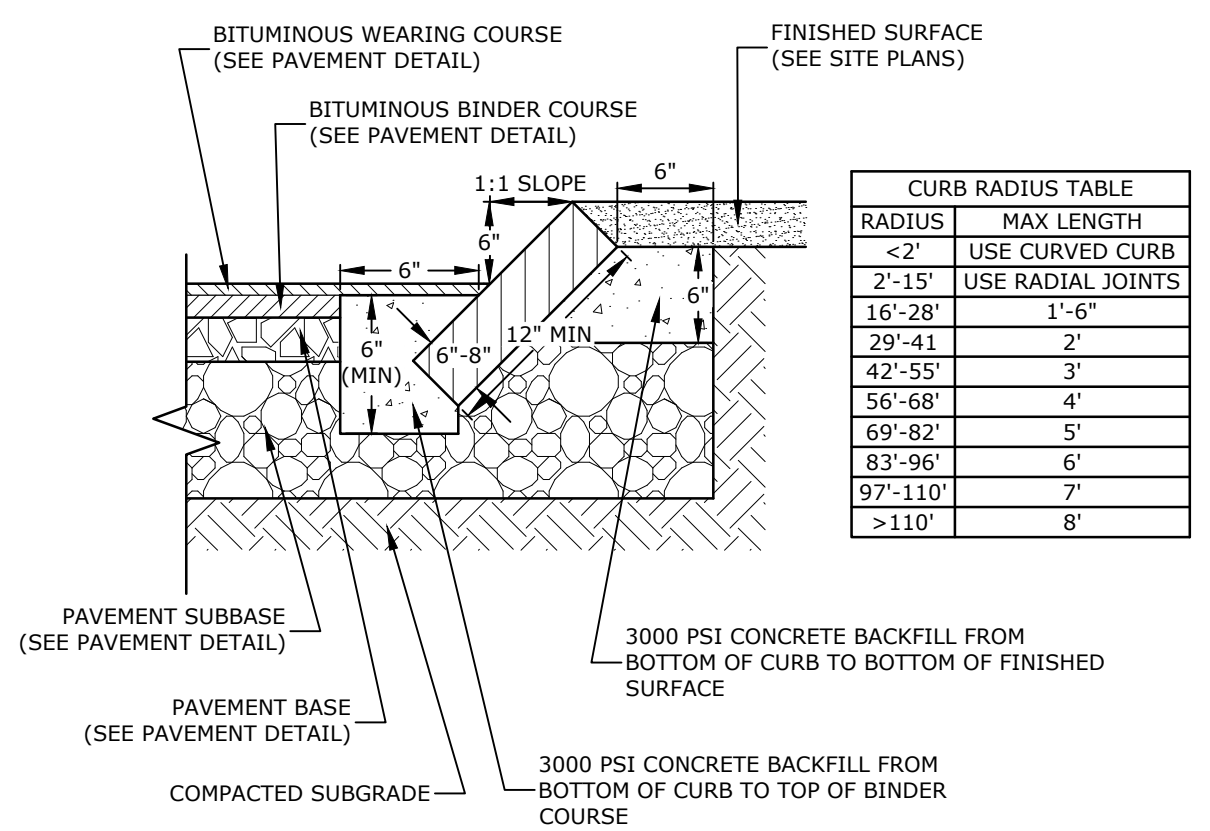
7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS
MARK	DATE	DESCRIPTION
PROJECT NO:	M1529-002	
DATE:	5/23/2018	
FILE:	M1529-002_C-DTLS.dwg	
DRAWN BY:	EGD	
CHECKED:	JMP	
APPROVED:	BLM	

DETAIL SHEET

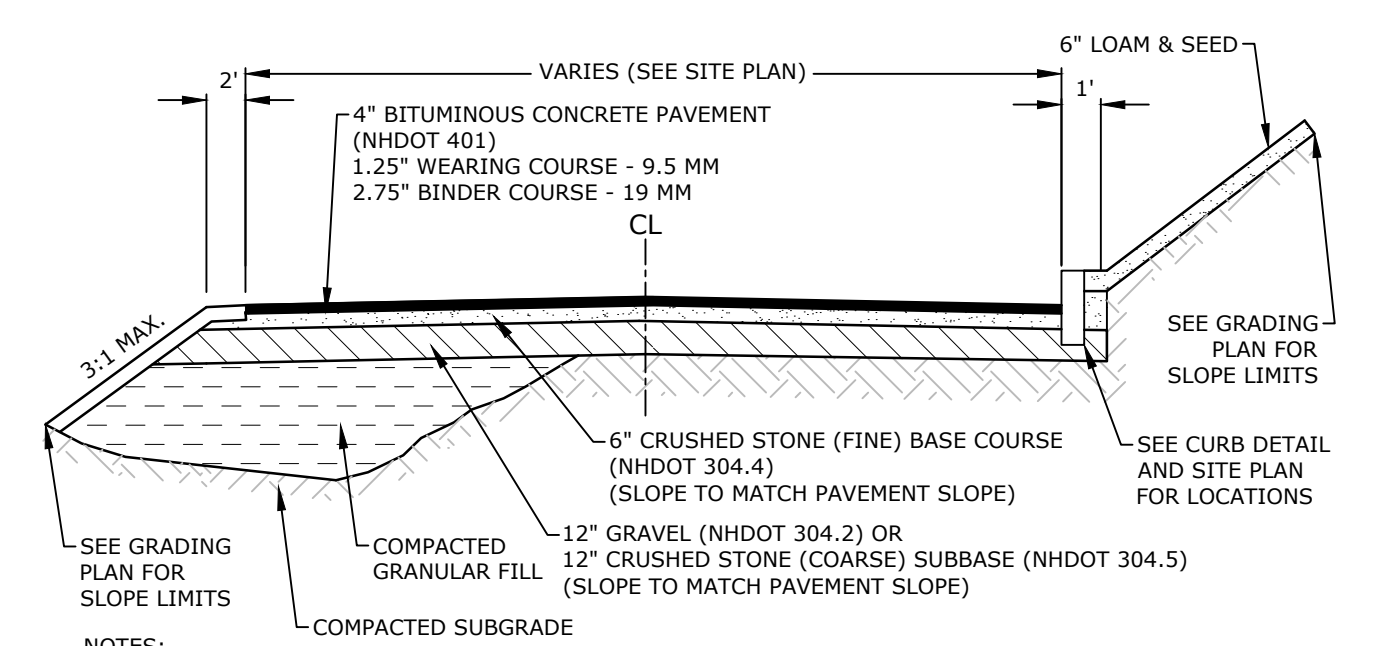
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C-502



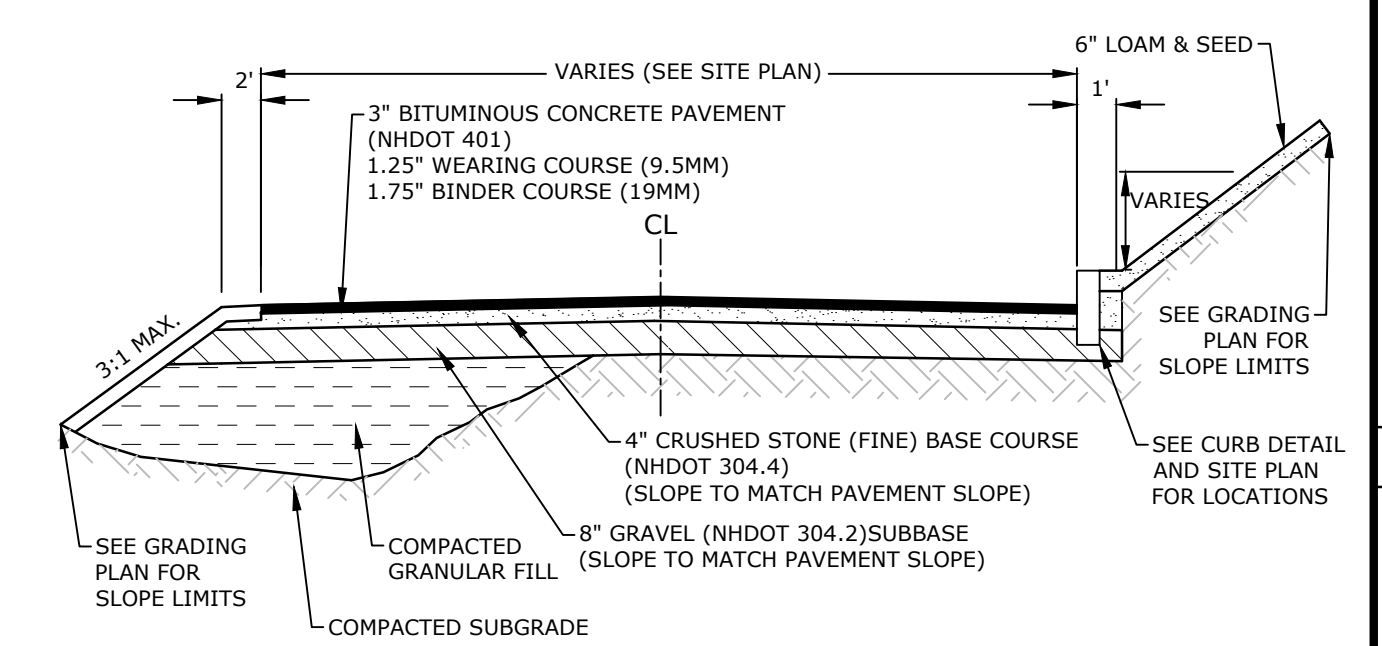
- NOTES:
- SEE SITE PLAN(S) FOR LIMITS OF VERTICAL GRANITE CURB (VGC).
  - ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
  - MINIMUM LENGTH OF STRAIGHT CURB STONES = 18"
  - MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8'
  - MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE TABLE).
  - JOINTS BETWEEN STONES SHALL HAVE A MAXIMUM SPACING OF 1/2" AND SHALL BE MORTARED.

**SLOPED GRANITE CURB**  
NO SCALE



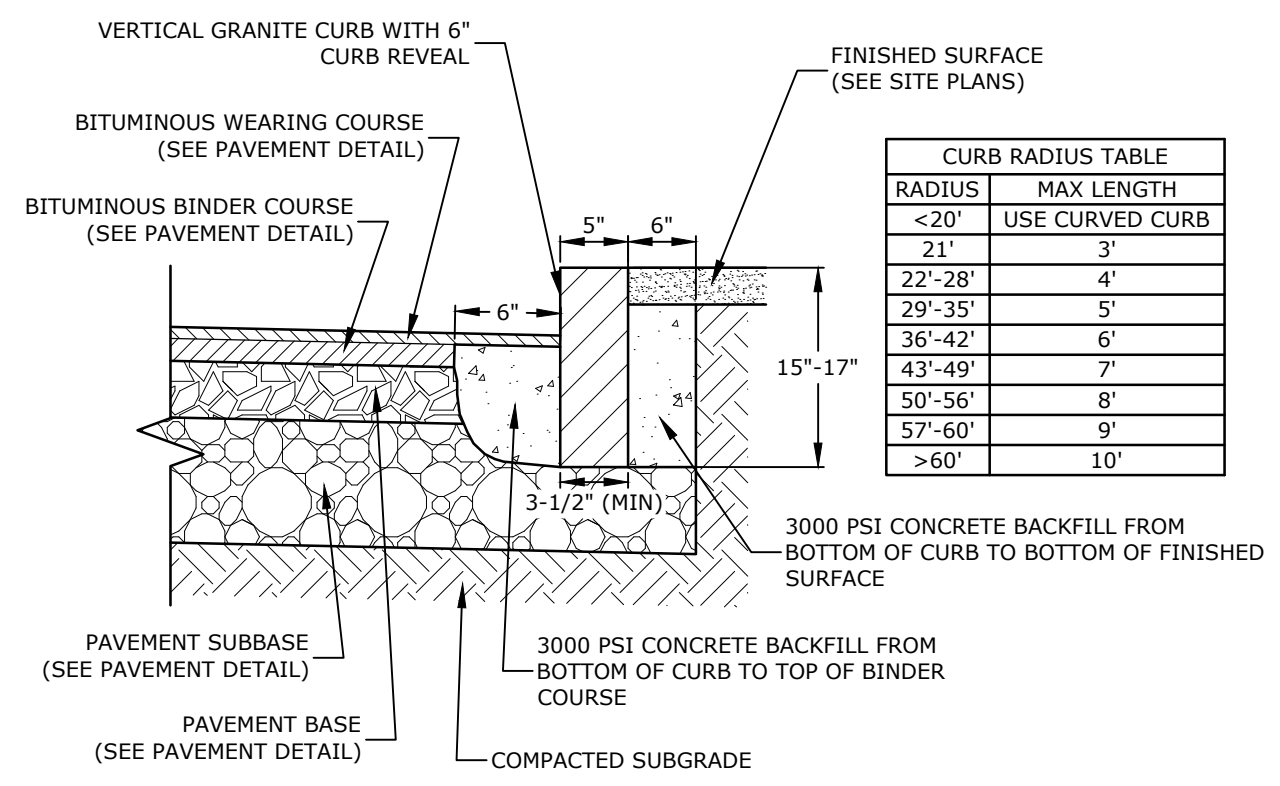
- NOTES:
- SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
  - SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PAVEMENT SLOPES AND CROSS-SLOPES.
  - A TACK COAT SHALL BE PLACED ON TOP OF THE BINDER COURSE PRIOR TO PLACING THE WEARING COURSE.
  - CONTRACTOR SHALL HAVE THE OPTION OF RECLAIMING THE EXISTING PAVEMENT AND REMOVING THE MATERIAL, THEN REUSING THE RECLAIMED MATERIAL AS A PAVEMENT SUBBASE.

**HEAVY DUTY PAVEMENT SECTION**  
NO SCALE



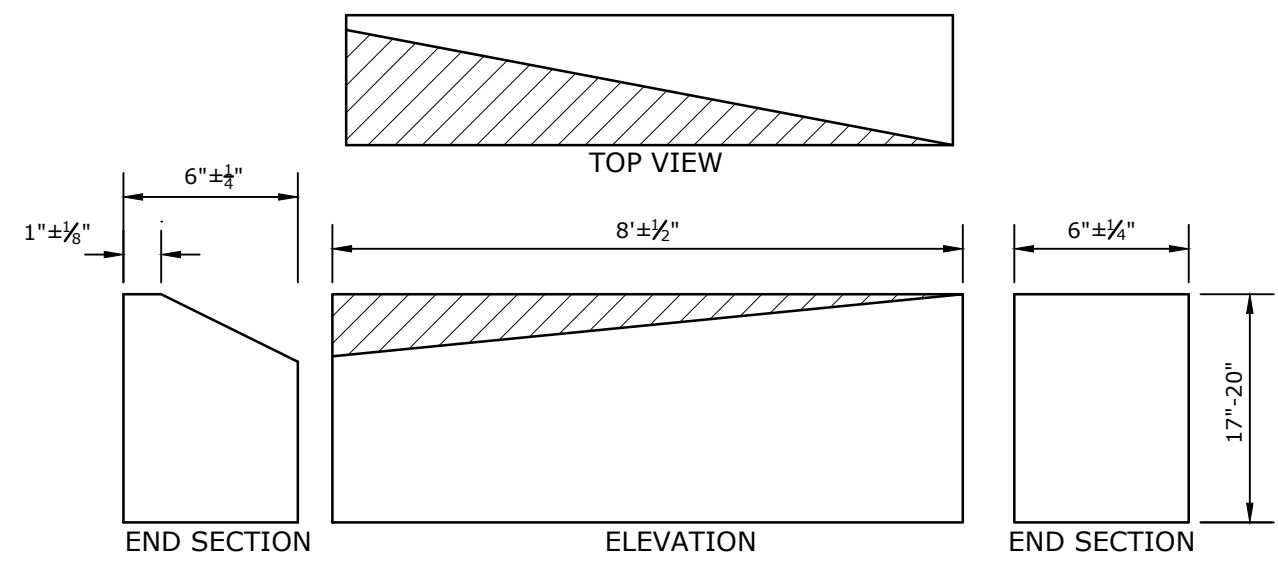
- NOTES:
- SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
  - SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PAVEMENT SLOPES AND CROSS-SLOPES.
  - A TACK COAT SHALL BE PLACED ON TOP OF THE BINDER COURSE PRIOR TO PLACING THE WEARING COURSE.
  - CONTRACTOR SHALL HAVE THE OPTION OF RECLAIMING THE EXISTING PAVEMENT AND REMOVING THE MATERIAL, THEN REUSING THE RECLAIMED MATERIAL AS A PAVEMENT SUBBASE.

**STANDARD DUTY PAVEMENT SECTION**  
NO SCALE



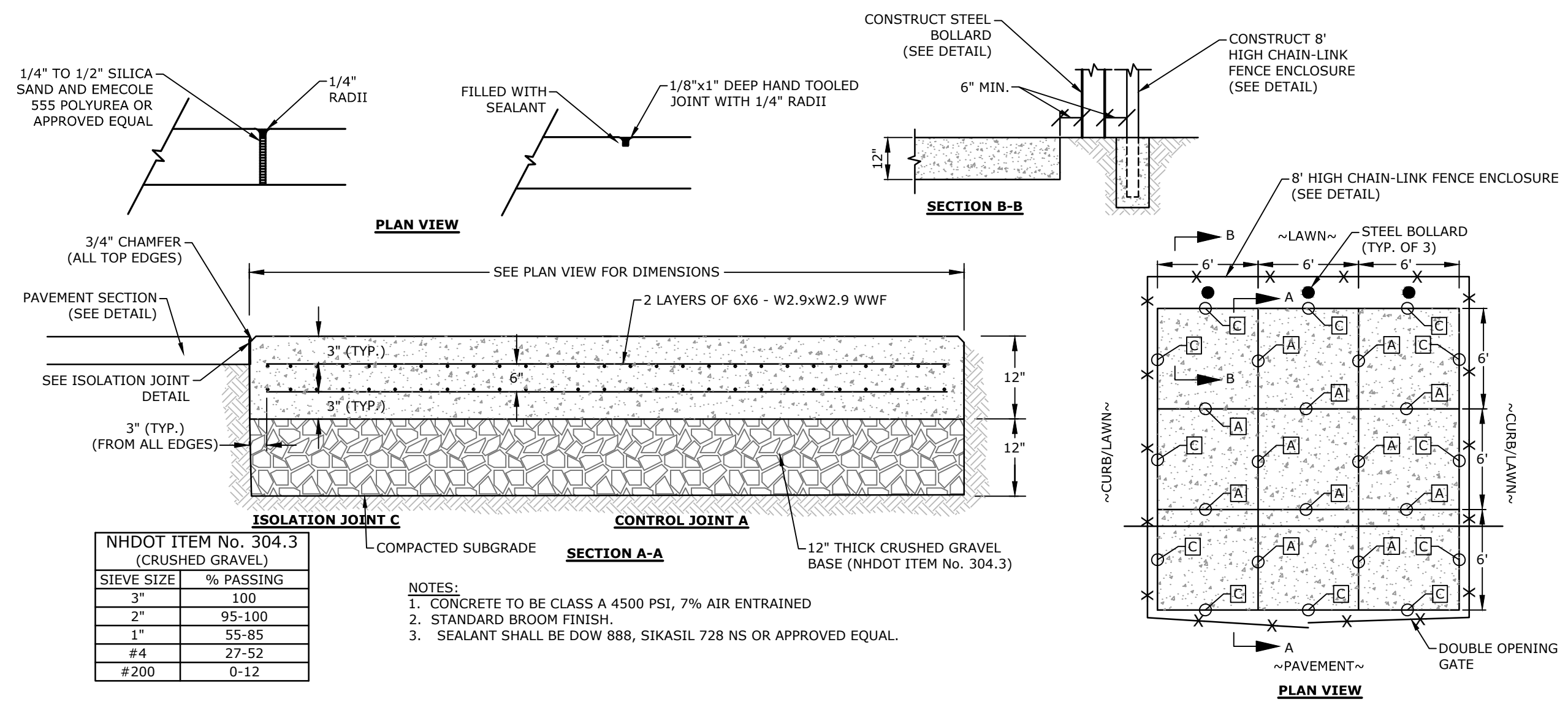
- NOTES:
- SEE SITE PLAN(S) FOR LIMITS OF VERTICAL GRANITE CURB (VGC).
  - ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
  - MINIMUM LENGTH OF STRAIGHT CURB STONES = 3'
  - MAXIMUM LENGTH OF STRAIGHT CURB STONES = 10'
  - MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE TABLE).
  - ALL RADII 20 FEET AND SMALLER SHALL BE CONSTRUCTED USING CURVED SECTIONS.
  - JOINTS BETWEEN STONES SHALL HAVE A MAXIMUM SPACING OF 1/2" AND SHALL BE MORTARED.

**VERTICAL GRANITE CURB**  
NO SCALE



- NOTES:
- THE INTENT OF THIS ITEM IS TO PROVIDE A SMOOTH TRANSITION BETWEEN STRAIGHT GRANITE CURB AND SLOPE CURB WITHOUT REQUIRING FIELD CHIPPING DURING INSTALLATION. THE SLOPE CURB MAY REQUIRE ADJUSTMENTS TO MEET THE TRANSITION PIECE HEIGHT. TRANSITION SLOPE CURB TO STANDARD REVEAL AS QUICKLY AS POSSIBLE TO PROVIDE FOR THIS SMOOTH TRANSITION.

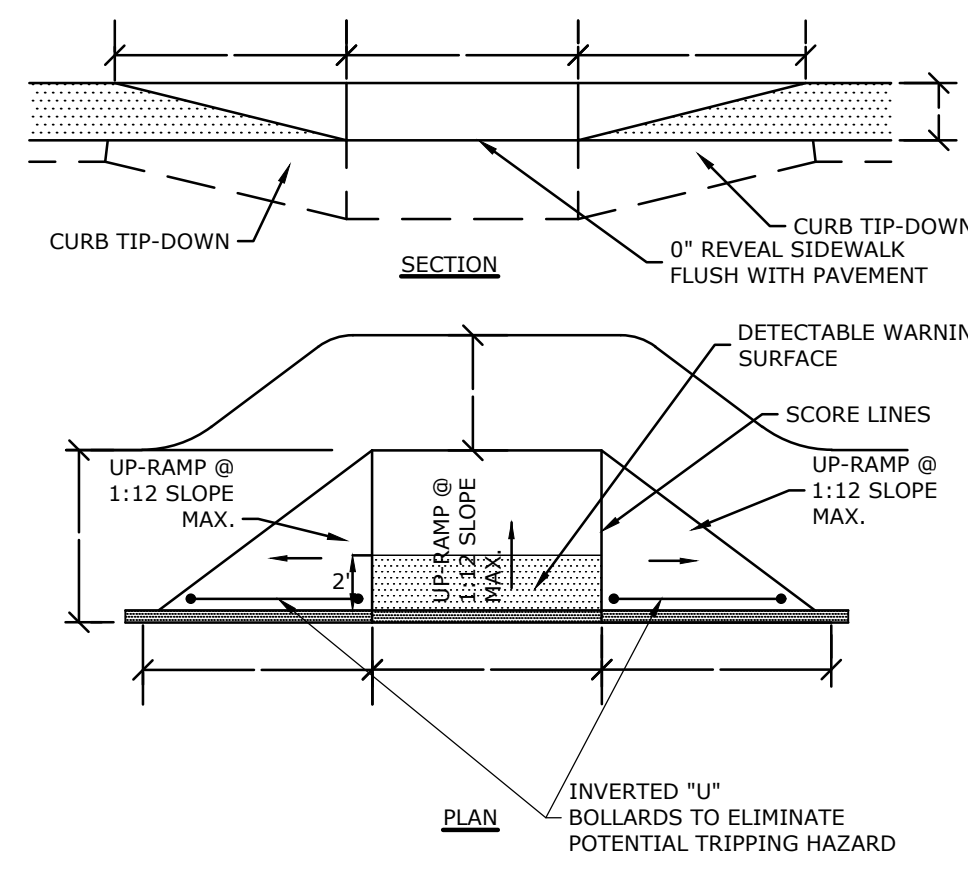
**CURB TRANSITION**  
NO SCALE



SIEVE SIZE	% PASSING
3"	100
2"	95-100
1"	55-85
#4	27-52
#200	0-12

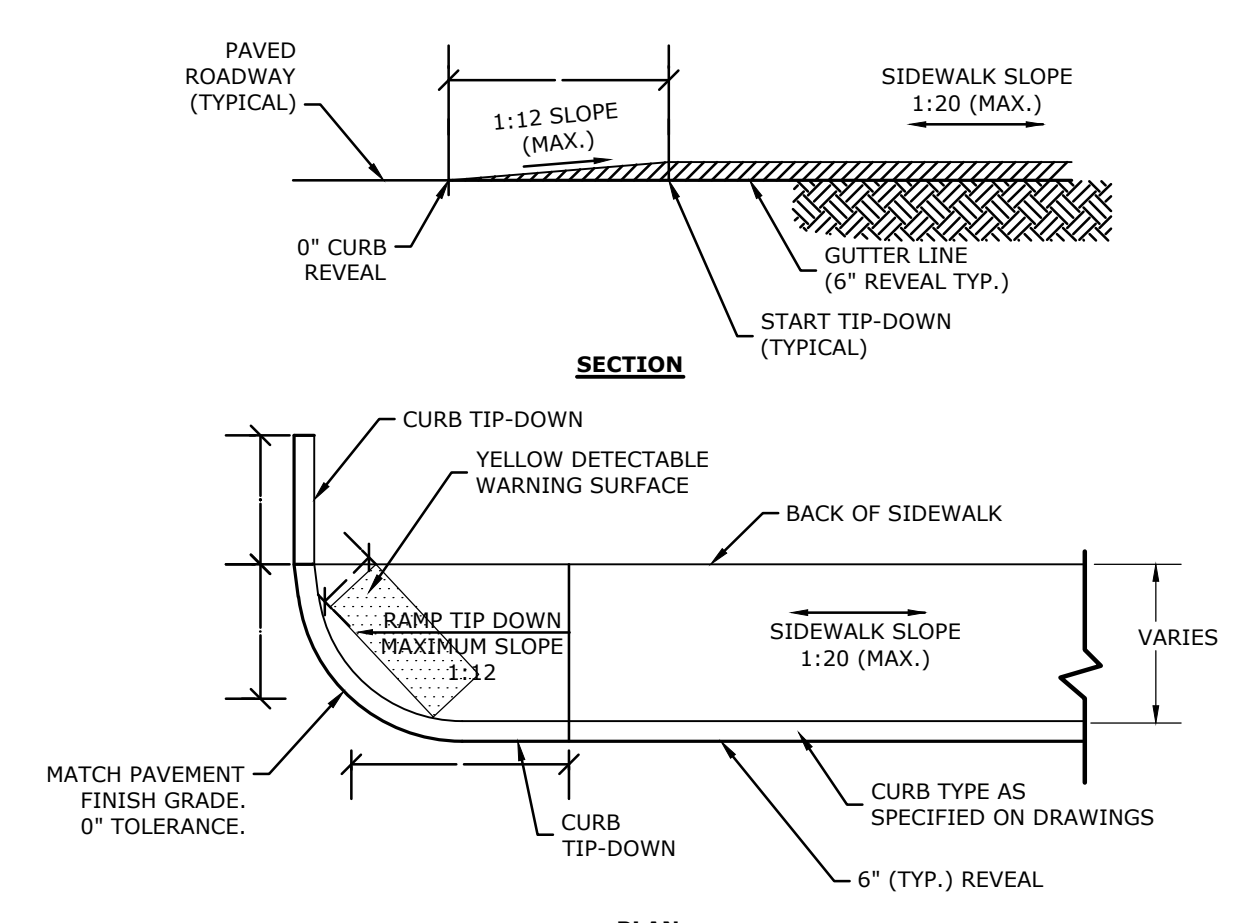
- NOTES:
- CONCRETE TO BE CLASS A 4500 PSI, 7% AIR ENTRAINED
  - STANDARD BROOM FINISH.
  - SEALANT SHALL BE DOW 888, SIKASIL 728 NS OR APPROVED EQUAL.

**DUMPSTER PAD**  
NO SCALE



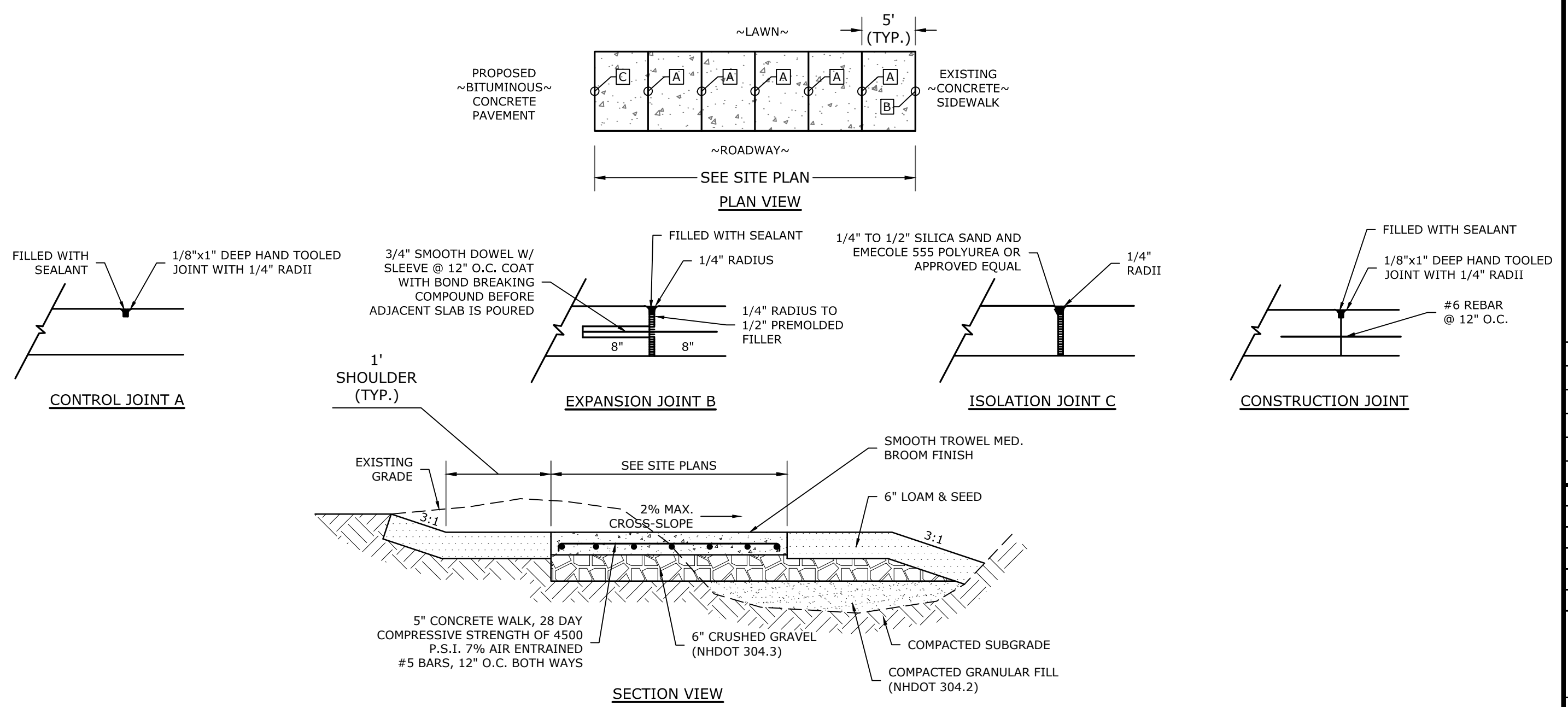
- NOTES:
- RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS
  - PROVIDE 6" COMPACTED CRUSHED GRAVEL BASE BENEATH RAMPS
  - DETECTABLE WARNING STRIP SHALL BE ADA SOLUTIONS, INC. CAST IN PLACE RAMP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

**CONCRETE WHEEL CHAIR ACCESSIBLE**  
NO SCALE



- NOTES:
- RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS
  - PROVIDE 6" COMPACTED CRUSHED GRAVEL BASE BENEATH RAMPS
  - DETECTABLE WARNING STRIP SHALL BE ADA SOLUTIONS, INC. CAST IN PLACE RAMP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

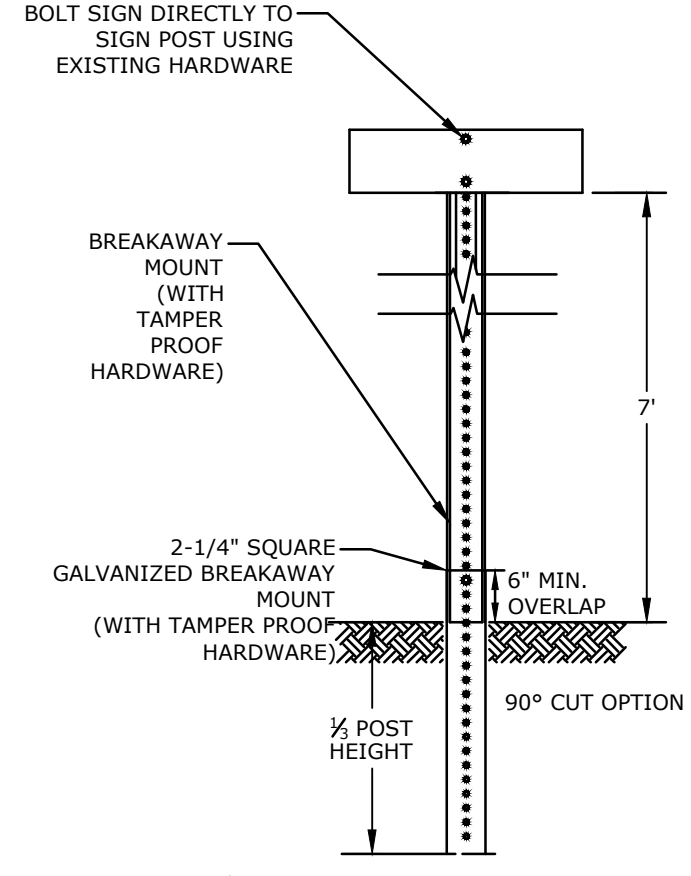
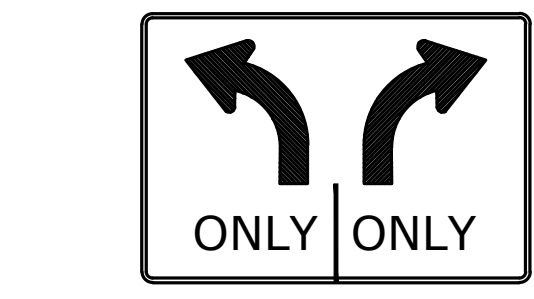
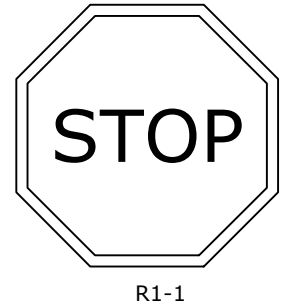
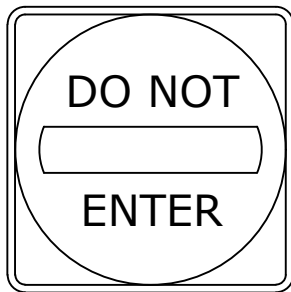
**CONCRETE SIDEWALK TIP DOWN RAMP**  
NO SCALE



**CONCRETE SIDEWALK**  
NO SCALE

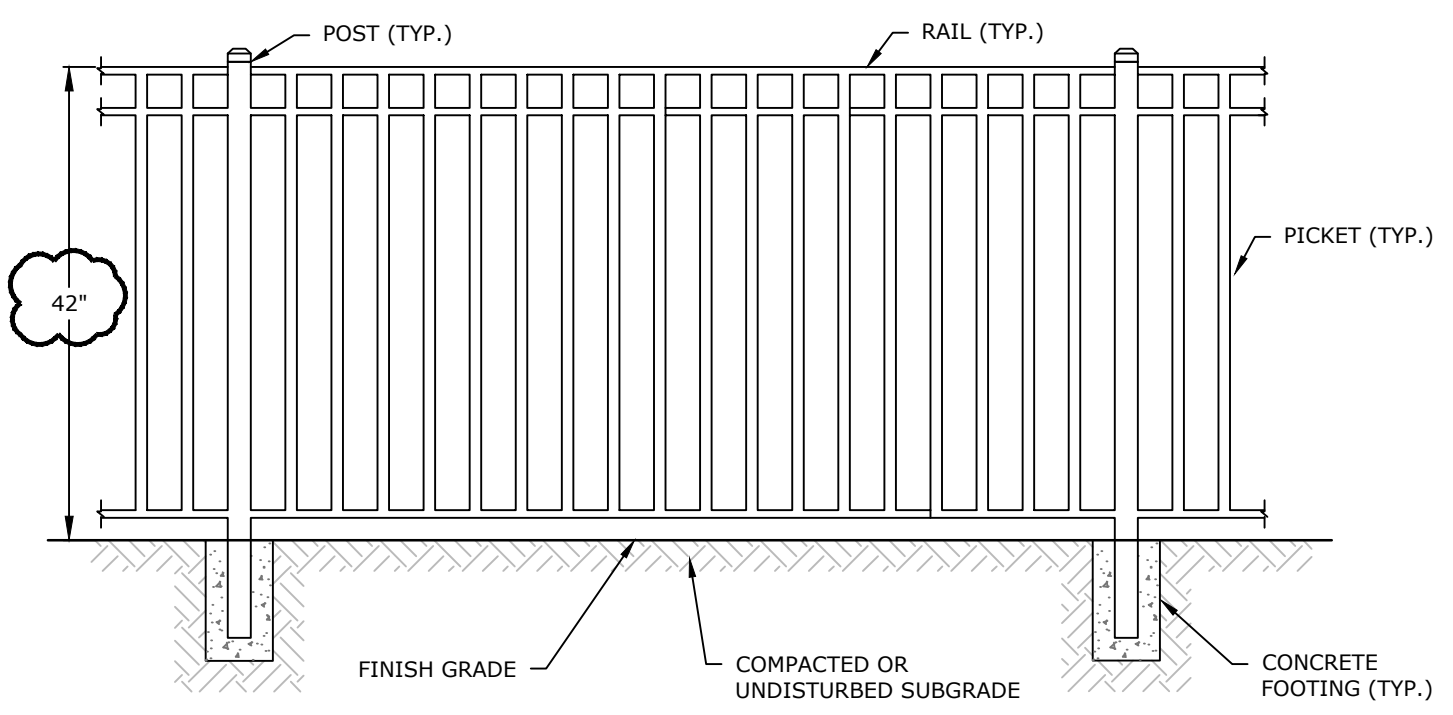
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 LCO:002-Mill Road Plaza Drawings





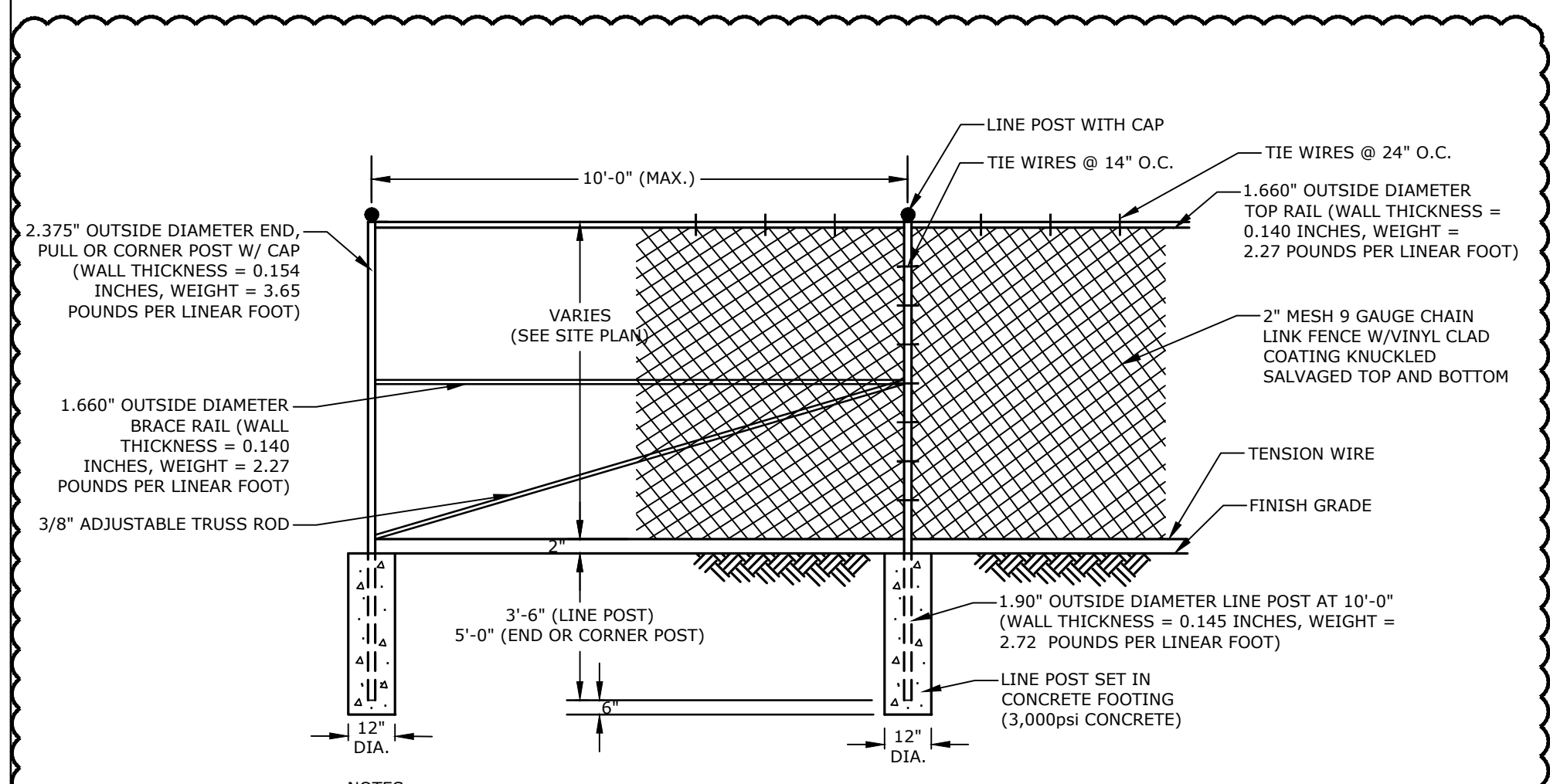
**\* IN LEDGE DRILL & GROUT TO A MIN OF 2" NOTE**  
 ALL SIGNS TO BE CONSTRUCTED PER THE LATEST EDITION OF THE FHWA STANDARD HIGHWAY SIGNS MANUAL AND INSTALLED AS INDICATED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.  
 LENGTH: AS REQUIRED  
 WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)  
 HOLES: 7/16" DIAMETER, 1" C-C FULL LENGTH  
 STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070 - 1080)  
 FINISH: STREET SIGNS - GALVANIZED STEEL  
 ALL OTHER - SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN BAKED ON OR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.

**SIGN LEGEND & SIGN POST**  
NO SCALE



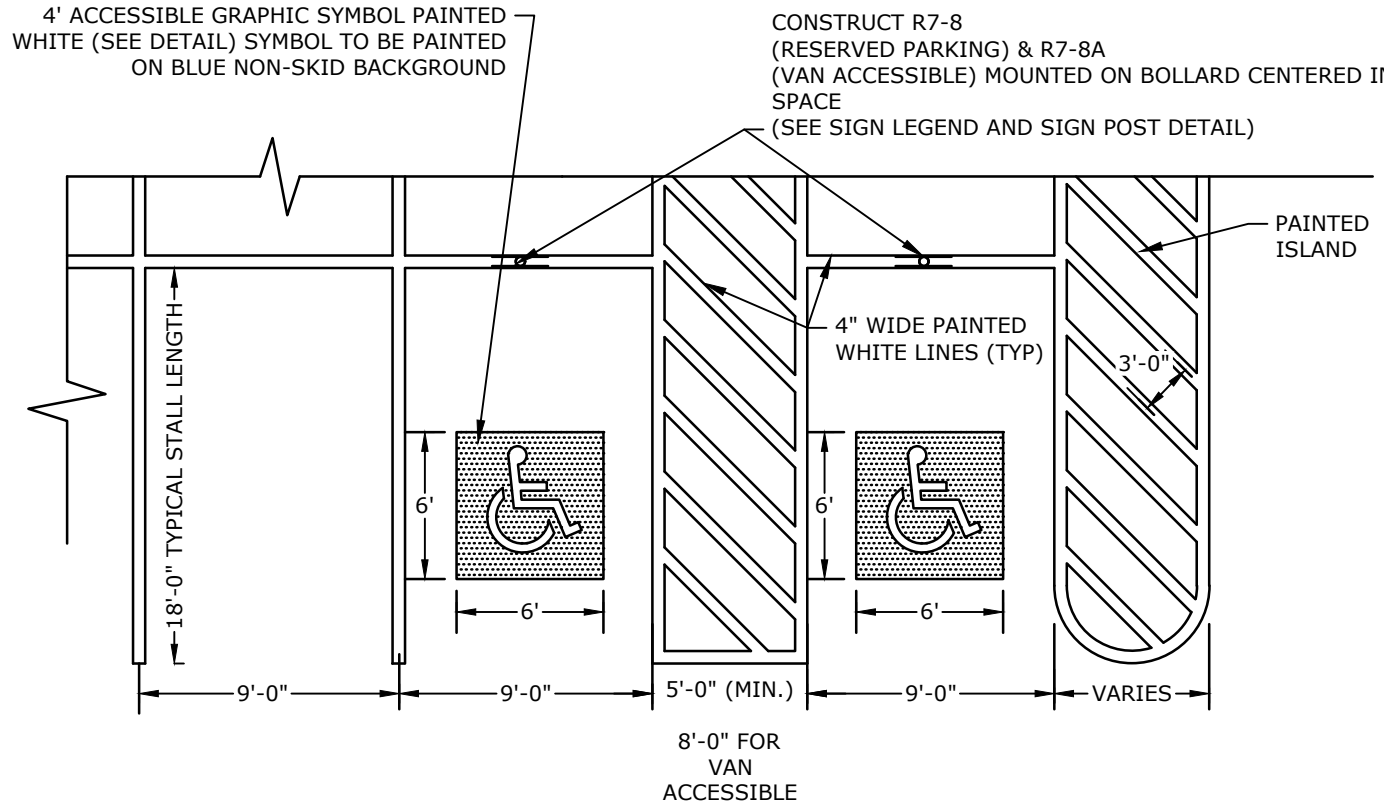
**NOTES:**  
 1. FENCE TO BE NATIONAL FENCE SYSTEMS, INC. OPAL GEMSTONE ALUMINUM STYLE FENCE OR APPROVED EQUAL, AS APPROVED BY OWNER.  
 2. FINISH TO BE HOT DIP GALVANIZED, PAINTED WITH ONE COAT TWO-PART EPOXY PRIMER AND FINISH COATED WITH TWO-PART POLYURETHANE. COLOR TO BE FLAT BLACK.  
 3. FIELD TOUCH UP ALL FASTENERS AND SCRATCHES DUE TO SHIPPING, PACKAGING, AND ERECTION USING PAINT KIT PROVIDED.  
 4. SEE MANUFACTURERS RECOMMENDATIONS FOR CONCRETE FOOTING DIMENSIONS AND SPECIFICATIONS.

**ORNAMENTAL METAL FENCE**  
NO SCALE



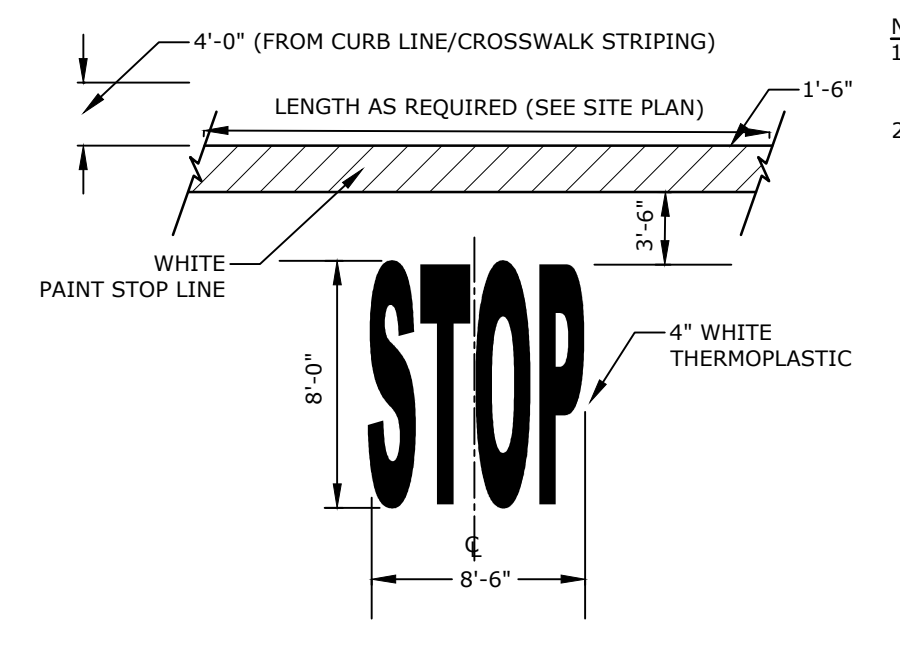
**NOTES:**  
 1. CORNER POSTS SHALL BE USED AT SHARP BREAKS IN GRADE AND CHANGES IN HORIZONTAL ALIGNMENT OF 15' OR MORE.  
 2. POSTS, RAILS & BRACES SHALL BE TYPE 1, SCHEDULE 40 BLACK VINYL COATED PIPE.  
 3. FABRIC TO BE BLACK VINYL COATED.  
 4. TIE WIRES SHALL BE 9 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO LINE POSTS.  
 5. TIE WIRES SHALL BE 13 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO RAILS AND BRACES.  
 6. HOG RING TIES SHALL BE 12- 1/2 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO TENSION WIRE.

**CHAIN LINK FENCE**  
NO SCALE



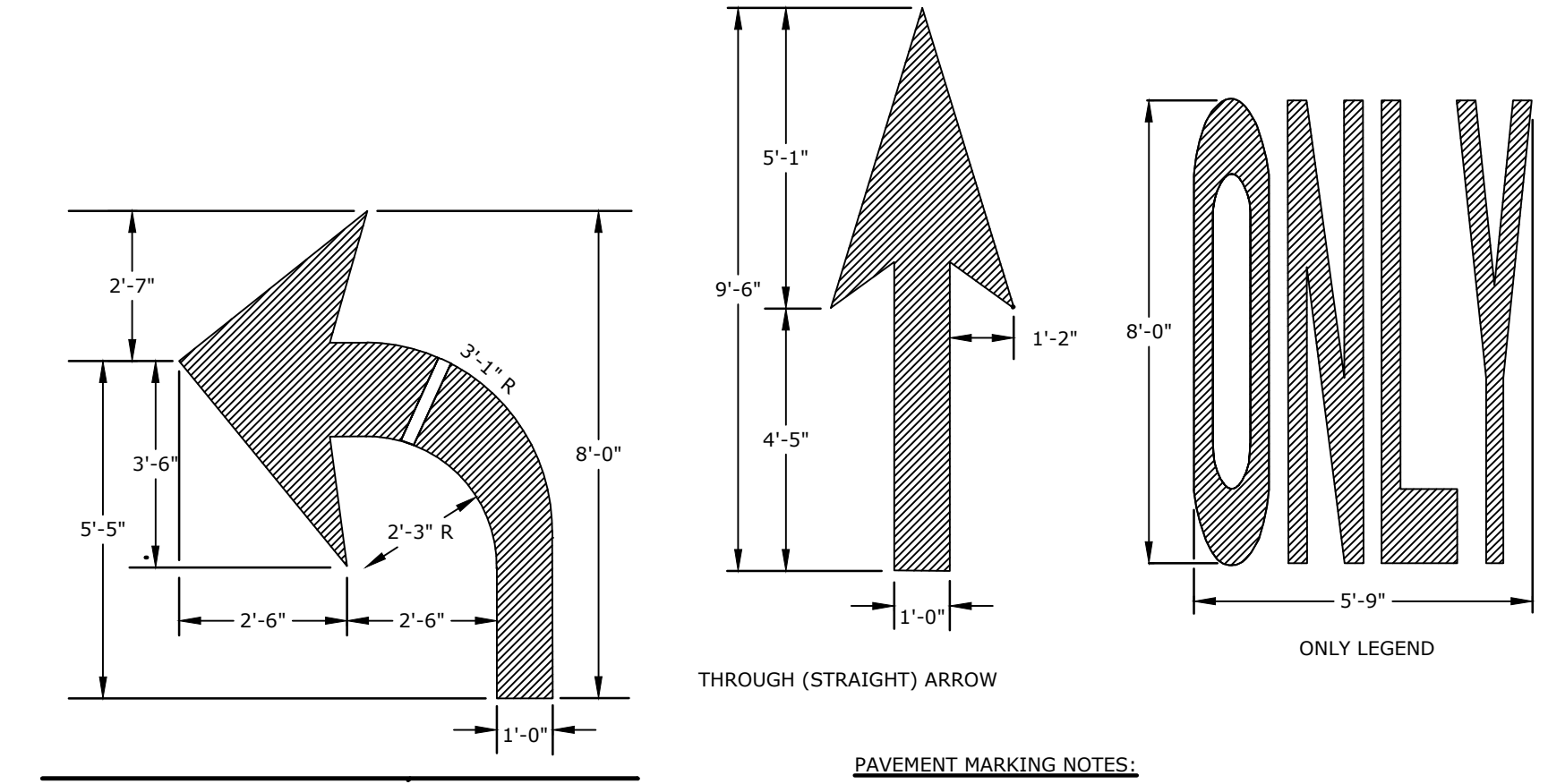
**NOTES:**  
 1. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.  
 2. SYMBOLS & PARKING STALLS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS.  
 3. FINISH PAVEMENT GRADES AT ALL HANDICAP ACCESSIBLE STALLS AND PAINTED ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

**PARKING STALL/PAINTED ISLAND STRIPING**  
NO SCALE



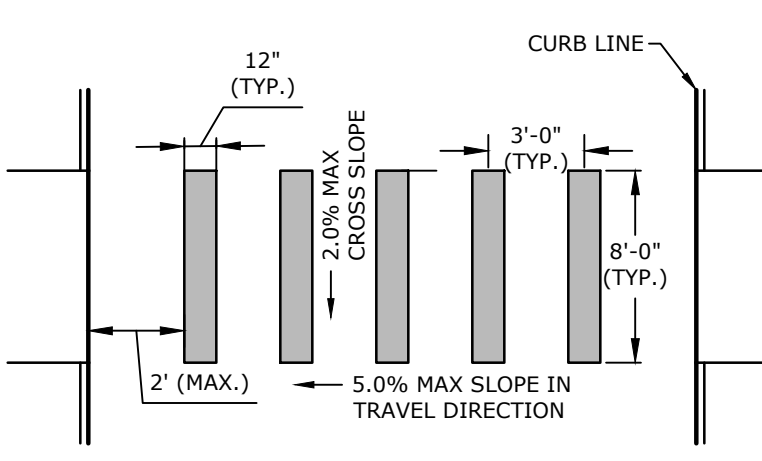
**NOTE:**  
 1. PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON SITE PLAN.  
 2. STRIPING SHALL BE CONSTRUCTED USING WHITE PAINT

**STOP BAR AND LEGEND**  
NO SCALE



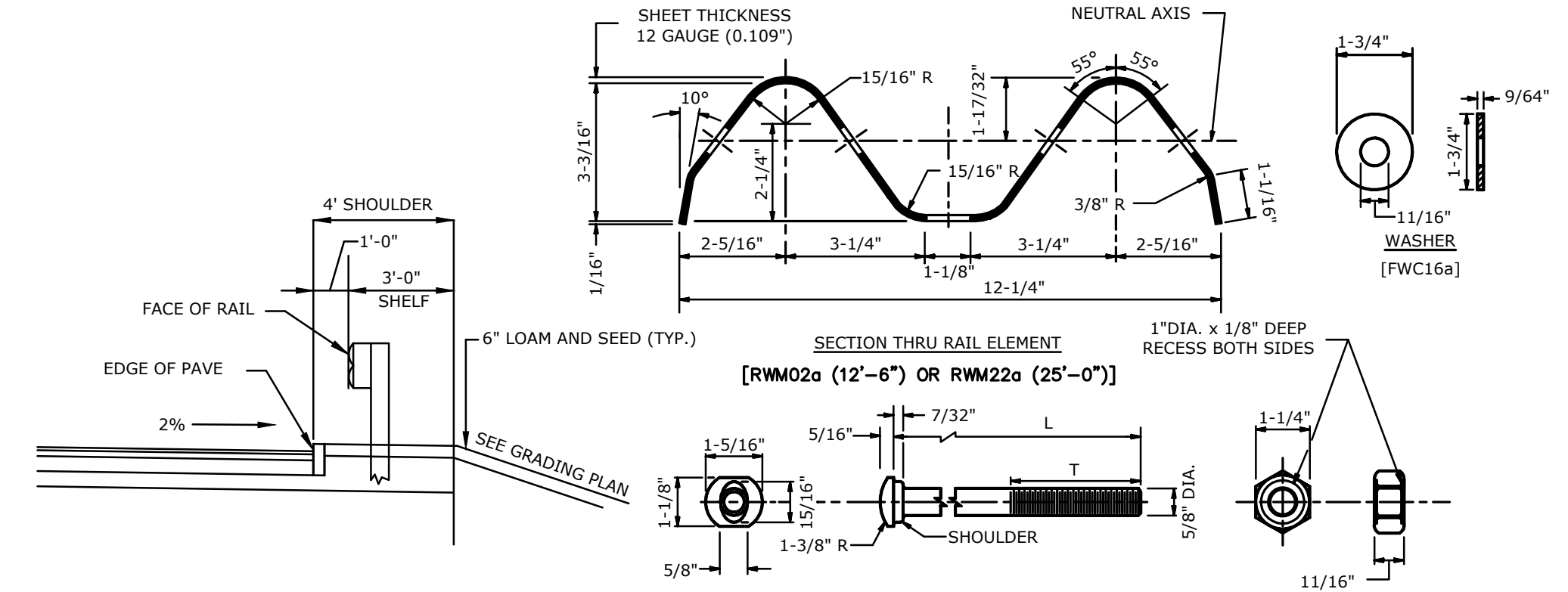
**PAVEMENT MARKING NOTES:**  
 1. ALL WORDS AND SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST VERSION OF THE MUTCD.  
 2. MULTI-WORD MESSAGES SHALL READ "UP"; THAT IS, THE FIRST WORD SHALL BE NEAREST THE APPROACHING DRIVER.  
 3. THE WORD "ONLY" SHALL NOT BE USED WITH THROUGH OR COMBINATION ARROWS, AND SHALL NOT BE USED ADJACENT TO A BROKEN LANE LINE. A WORD/SYMBOL SHALL PRECEED THE WORD "ONLY".  
 4. COMBINATION ARROWS MAY BE COMPRISED OF 2 SINGLE ARROWS (e.g. TURN AND THROUGH ARROWS). HOWEVER, THE SHAFTS OF THE ARROWS SHALL COINCIDE AS SHOWN.  
 5. PREFORMED WORDS AND SYMBOLS SHALL BE PRE-CUT BY THE MANUFACTURER.  
 6. WRONG-WAY ARROWS SHALL NOT BE SUBSTITUTED FOR THROUGH ARROWS.  
 7. ALL STOP BARS, WORDS, SYMBOLS AND ARROW SHALL BE WHITE PAINT.

**PAVEMENT MARKINGS**  
NO SCALE



**NOTES:**  
 1. PAVEMENT MARKINGS AND STRIPING TO BE CONSTRUCTED USING FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.  
 2. 12" INCH LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.  
 3. LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURB LINE.  
 4. ALL LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.

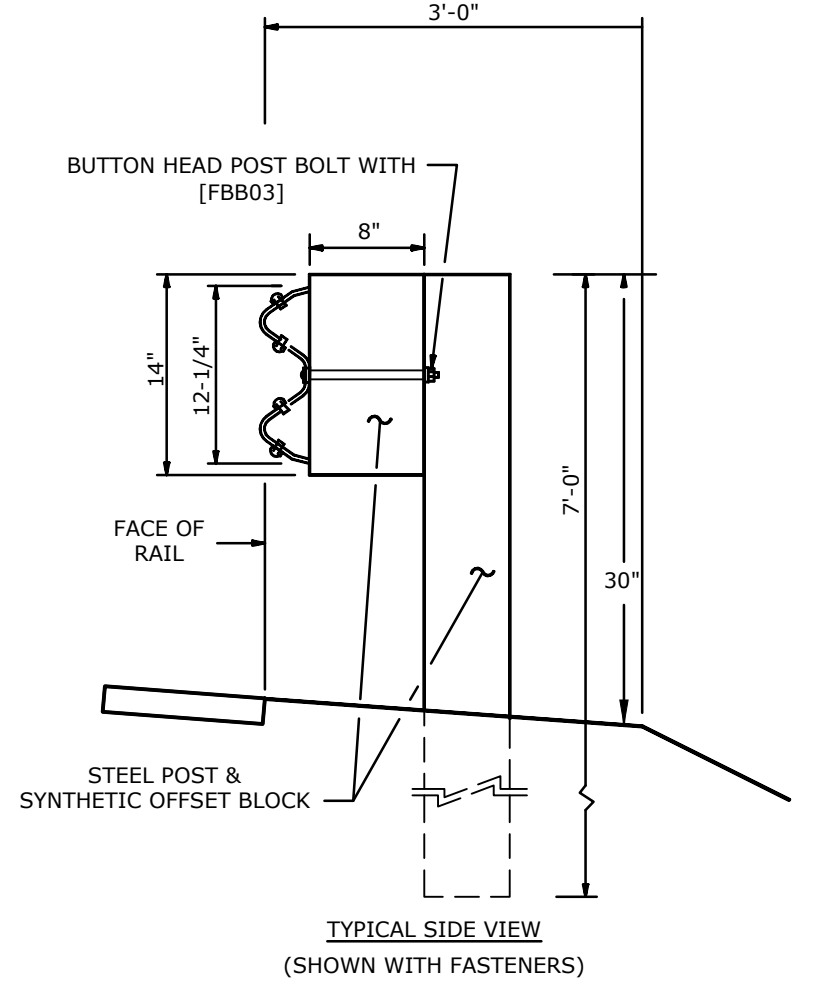
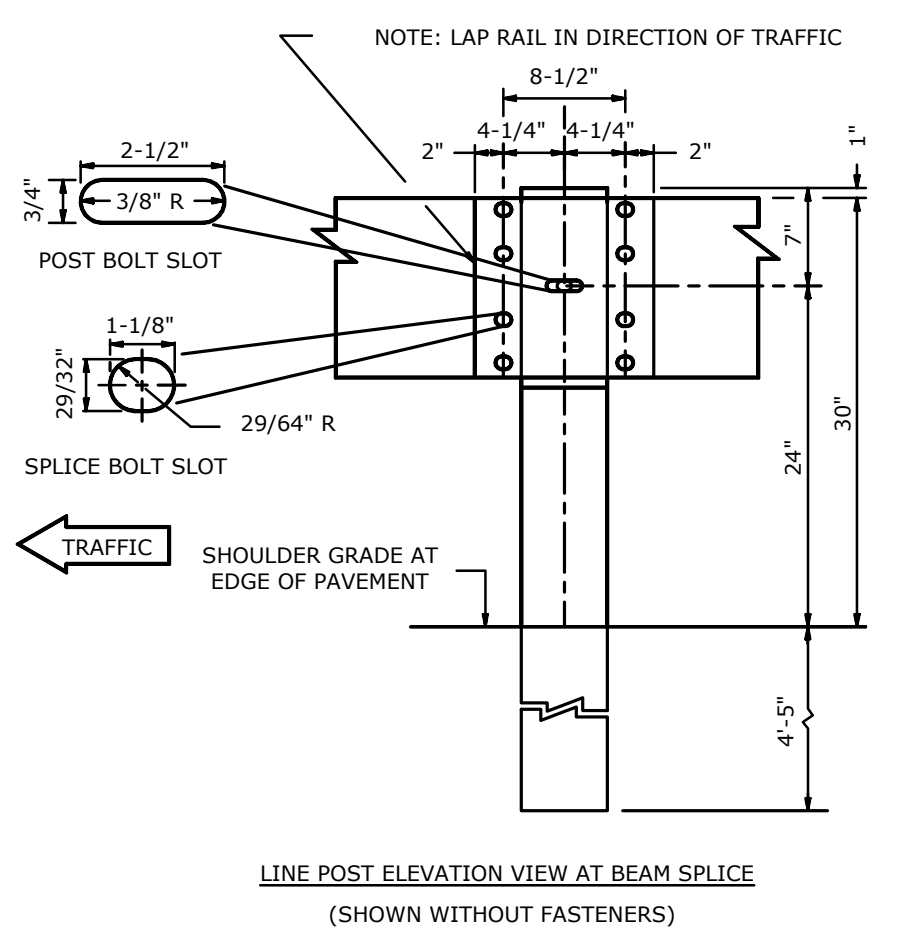
**CROSSWALK STRIPING**  
NO SCALE



DESIGNATOR	L	T	INTENDED USE
FB01	1 1/4"	FULL LENGTH THREAD	RAIL SPLICE BOLTS
FB02	2"	1-3/4" MIN. THREAD LENGTH	POST BOLT (STEEL POSTS)
FB03	9 1/2"	4" MIN. THREAD LENGTH	POST BOLT

**NOTES:**  
 1. THE LENGTH OF NEED IS THE TOTAL LENGTH OF A LONGITUDINAL BARRIER NEEDED TO SHIELD AN AREA OF CONCERN. TO DETERMINE THE LENGTH OF NEED, REFER TO THE "ROADSIDE DESIGN GUIDE" - AASHTO (1989).  
 2. DESIGNATION PROVIDED IN BRACKETS ( ) REFERENCE STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED HIGHWAY BARRIER RAIL HARDWARE" (1979) - AASHTO - AGC - ARTBA JOINT COOPERATIVE COMMITTEE.  
 3. USE 12'-6" LENGTH RAIL ELEMENT IN CURVES OF LESS THAN 300' RAIL RADIUS.  
 4. ALL DIMENSIONS SUBJECT TO MANUFACTURER'S TOLERANCES.  
 5. USE 6'-0" LONG POSTS WHEN FILL SLOPE IS 4:1 OR FLATTER AND/OR WHEN FIELD CONDITIONS DICTATE (e.g., LEDGE FILLS), AS DETERMINED BY THE ENGINEER.  
 6. WHEN GUARDRAIL IS INSTALLED BEHIND CURB, EITHER 6'-0" BEHIND SLOPE CURB OR AT THE BACK OF SIDEWALK WITH BARRIER CURB, THE RAIL HEIGHT SHALL BE SET FROM THE GRADE AT THE FACE OF RAIL.

**STEEL POST/STEEL BEAM GUARDRAIL**  
NO SCALE



Harriman Project No. 16117



**PERMIT DRAWINGS**  
NOT FOR CONSTRUCTION

**Mill Plaza**  
Redevelopment

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
6	3/10/2021	RESPONSE TO COMMENTS
5	1/20/2021	RESPONSE TO COMMENTS
4	11/4/2020	GENERAL REVISIONS
3	8/4/2020	GENERAL REVISIONS
2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

PROJECT NO: M1529-002  
 DATE: 5/23/2018  
 FILE: M1529-002\_C-DTLS.dwg  
 DRAWN BY: EGD  
 CHECKED: JMP  
 APPROVED: BLM

DETAIL SHEET

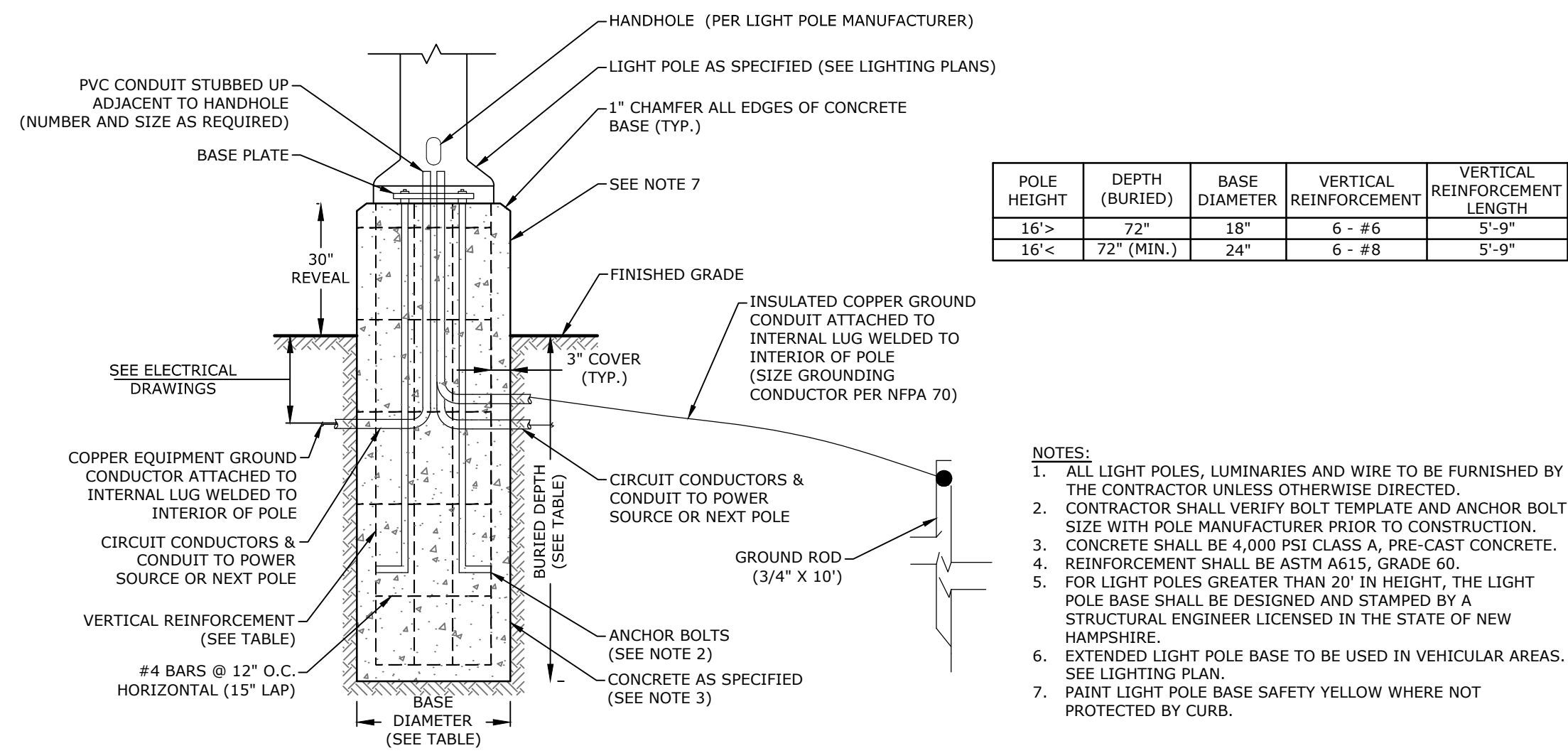
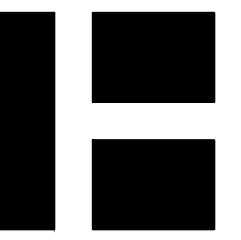
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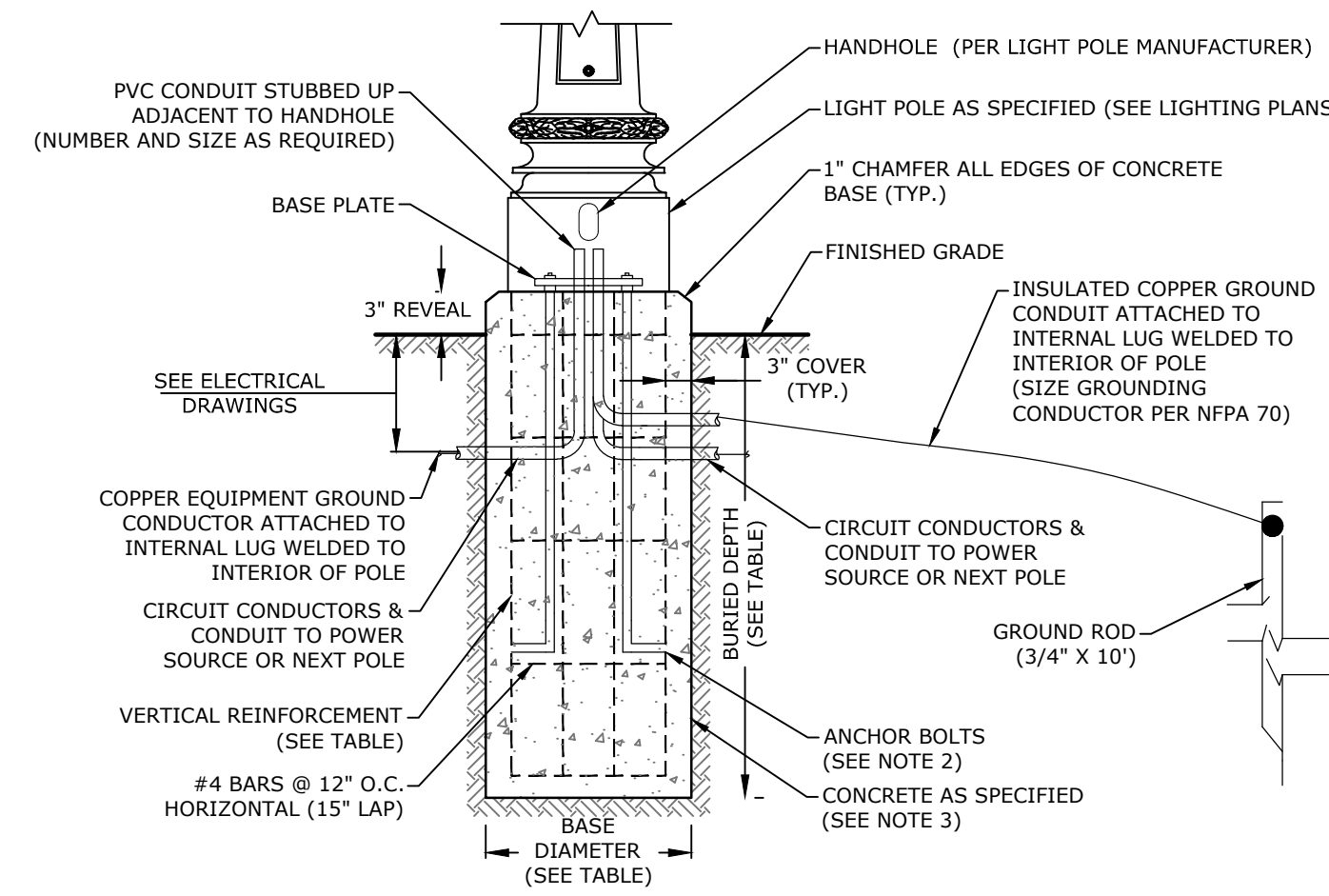




POLE HEIGHT	DEPTH (BURIED)	BASE DIAMETER	VERTICAL REINFORCEMENT	VERTICAL REINFORCEMENT LENGTH
16'-0"	72"	18"	6 - #6	5'-9"
16'-0"	72" (MIN.)	24"	6 - #8	5'-9"

- NOTES:**
1. ALL LIGHT POLES, LUMINARIES AND WIRE TO BE FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED.
  2. CONTRACTOR SHALL VERIFY BOLT TEMPLATE AND ANCHOR BOLT SIZE WITH POLE MANUFACTURER PRIOR TO CONSTRUCTION.
  3. CONCRETE SHALL BE 4,000 PSI CLASS A, PRE-CAST CONCRETE.
  4. REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
  5. FOR LIGHT POLES GREATER THAN 20' IN HEIGHT, THE LIGHT POLE BASE SHALL BE DESIGNED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
  6. EXTENDED LIGHT POLE BASE TO BE USED IN VEHICULAR AREAS. SEE LIGHTING PLAN.
  7. PAINT LIGHT POLE BASE SAFETY YELLOW WHERE NOT PROTECTED BY CURB.

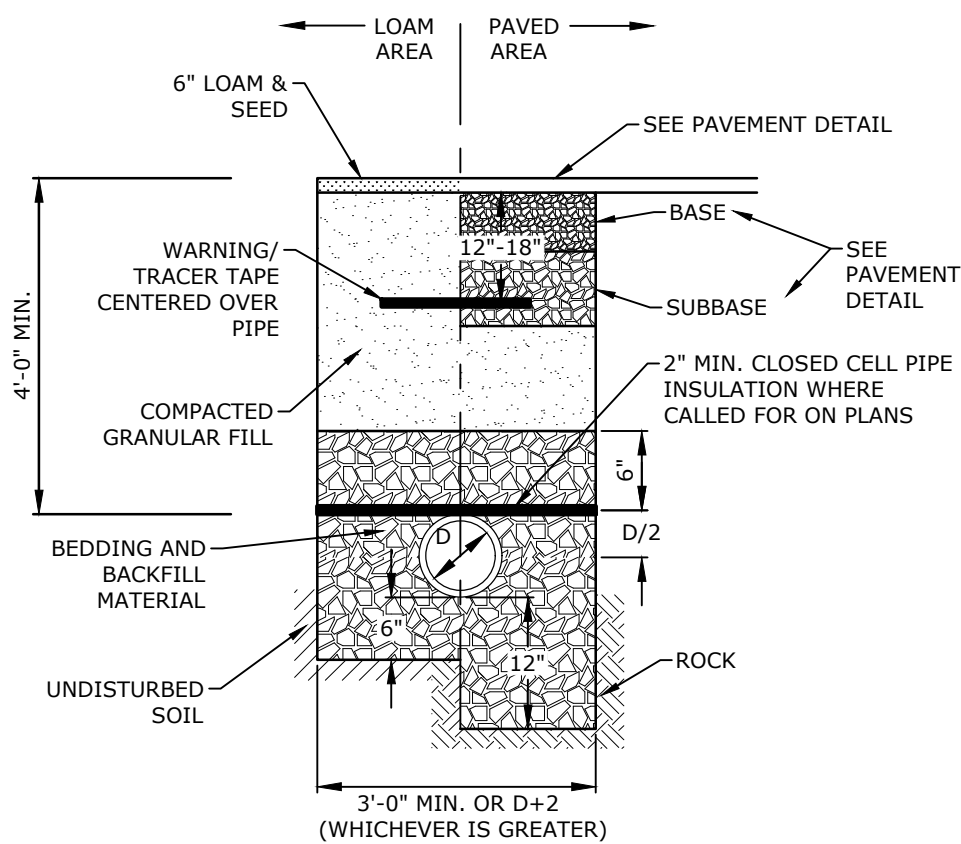
**EXTENDED LIGHT POLE BASE**  
NO SCALE



POLE HEIGHT	DEPTH (BURIED)	BASE DIAMETER	VERTICAL REINFORCEMENT	VERTICAL REINFORCEMENT LENGTH
16'-0"	72"	18"	6 - #6	5'-9"
16'-0"	72" (MIN.)	24"	6 - #8	5'-9"

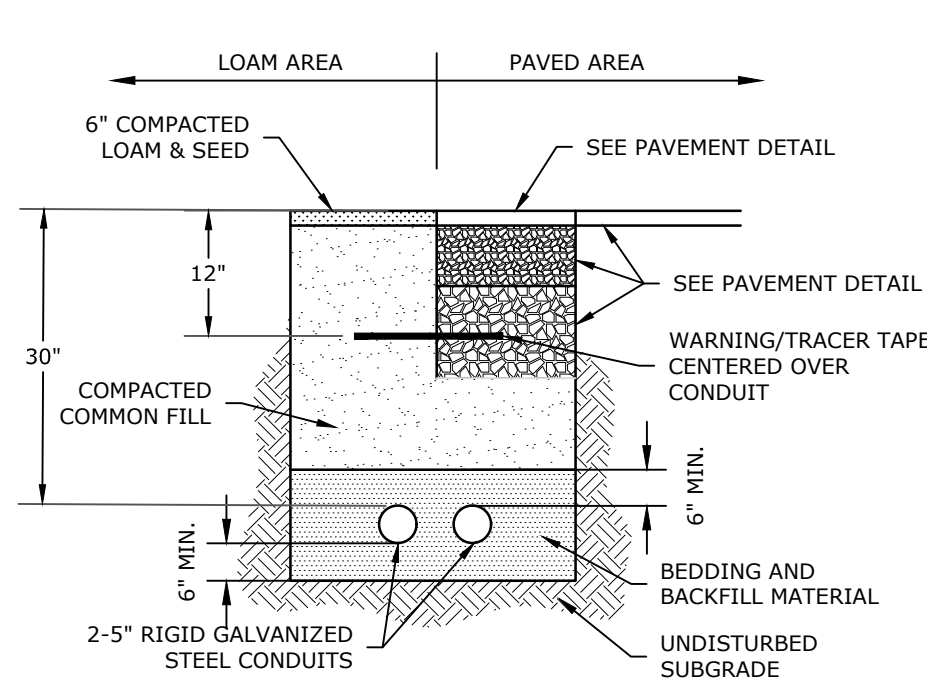
- NOTES:**
1. ALL LIGHT POLES, LUMINARIES AND WIRE TO BE FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED.
  2. CONTRACTOR SHALL VERIFY BOLT TEMPLATE AND ANCHOR BOLT SIZE WITH POLE MANUFACTURER PRIOR TO CONSTRUCTION.
  3. CONCRETE SHALL BE 4,000 PSI CLASS A, PRE-CAST CONCRETE.
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  5. FOR LIGHT POLES GREATER THAN 20' IN HEIGHT, THE LIGHT POLE BASE SHALL BE DESIGNED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.

**LIGHT POLE BASE**  
NO SCALE



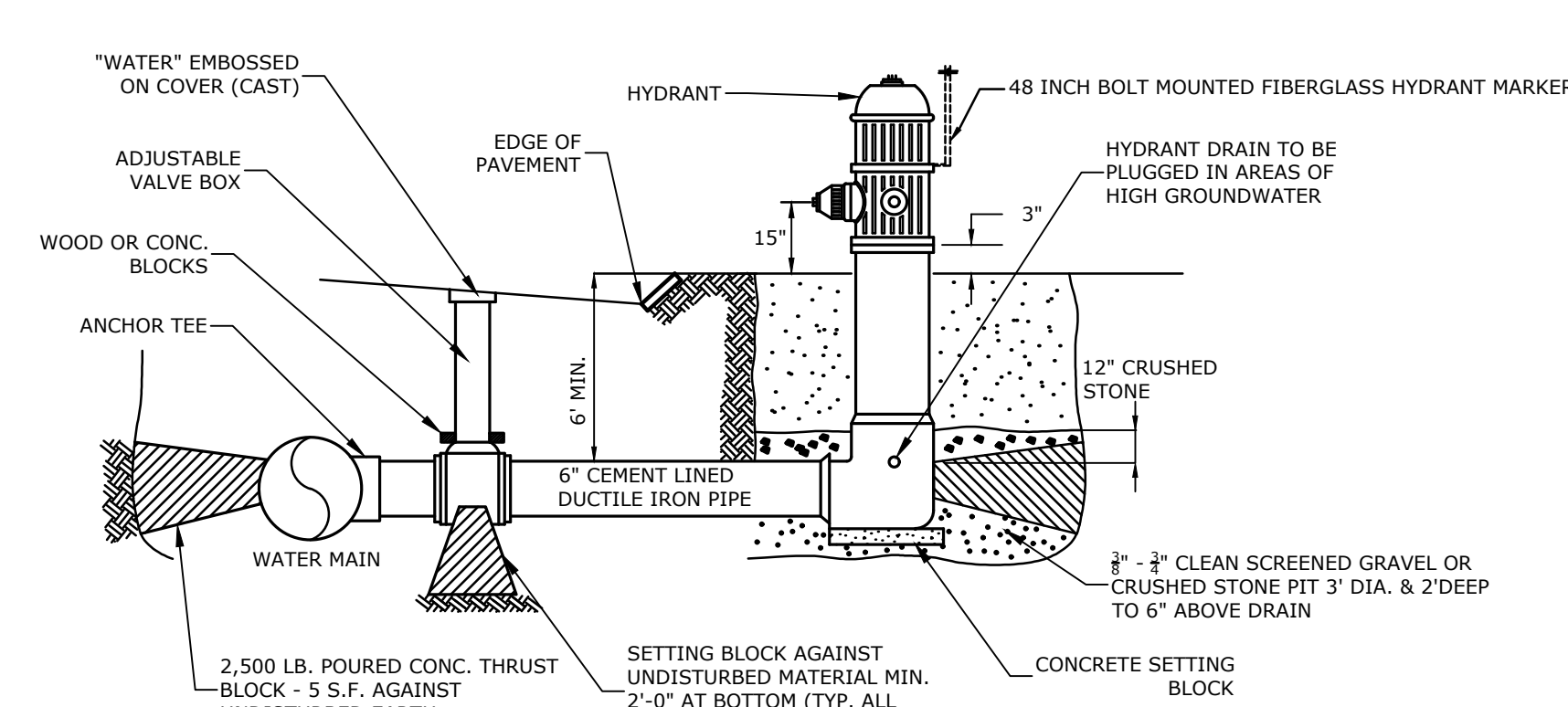
- NOTES:**
1. CRUSHED STONE BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 6" ABOVE TOP OF PIPE.
  2. ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE TOWN OF DURHAM.

**STORM DRAIN TRENCH**  
NO SCALE



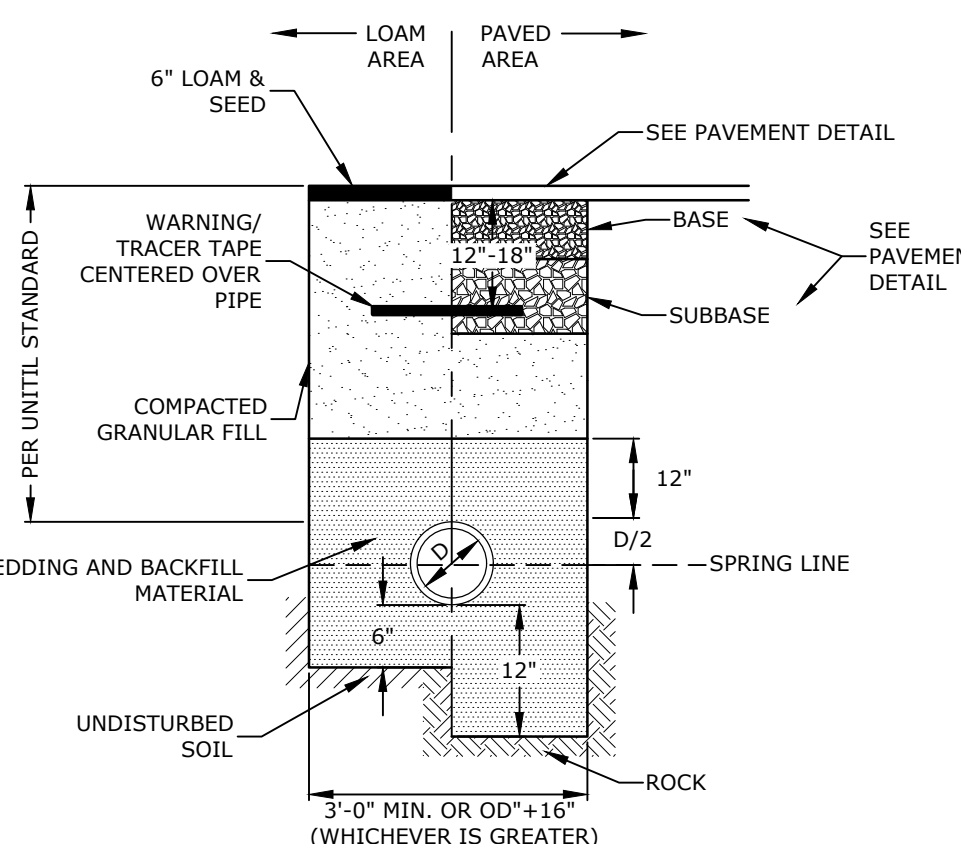
- NOTES:**
1. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.
  2. NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
  3. A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, SHALL BE INSTALLED IN THE CONDUIT PRIOR TO INSTALLING CONDUIT. THE STRING SHALL BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
  4. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
  5. CONTRACTOR SHALL PERFORM MANDREL TESTING ON ALL CONDUIT. UNCOVER ANY SECTION OF PIPE NOT PASSING THE MANDREL AND REPLACE THE BEDDING AND BACKFILL TO PREVENT EXCESSIVE DEFLECTION. REPLACE SECTIONS OF THE CONDUIT AS NECESSARY. RETEST REPAIRED CONDUIT IMMEDIATELY UPON BACKFILLING OF TRENCH UNTIL ACCEPTABLE.

**TELECOMMUNICATIONS CONDUIT TRENCH**  
NO SCALE



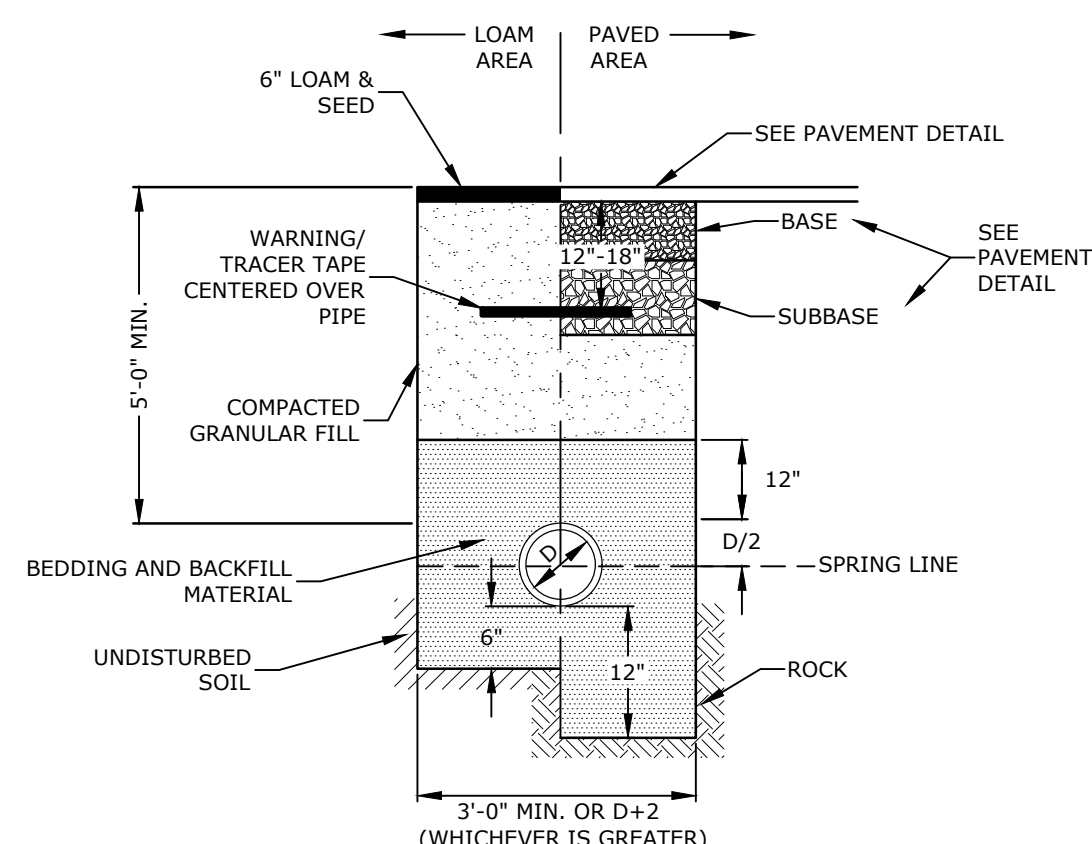
- NOTES:**
1. HYDRANT INSTALLATION AND OPERATION, MANUFACTURE AND MODEL, AND STANDARD DIMENSIONAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TOWN OF DURHAM WATER DEPARTMENT AND THE TOWN OF DURHAM FIRE DEPARTMENT.
  2. TIE RODS ON DI PIPE TO BE OPTIONAL. (IF USED THRUST BLOCK AT HYDRANT MAY BE OMITTED)
  3. HYDRANT MARKER TO BE 3/8" FIBERGLASS RODS BY E-ZGUIDE PRODUCTS OR APPROVED EQUAL.
  4. HYDRANT DRAINS ARE TO REMAIN PLUGGED REGARDLESS OF GROUNDWATER OR SOIL CONDITIONS.

**FIRE HYDRANT**  
NO SCALE



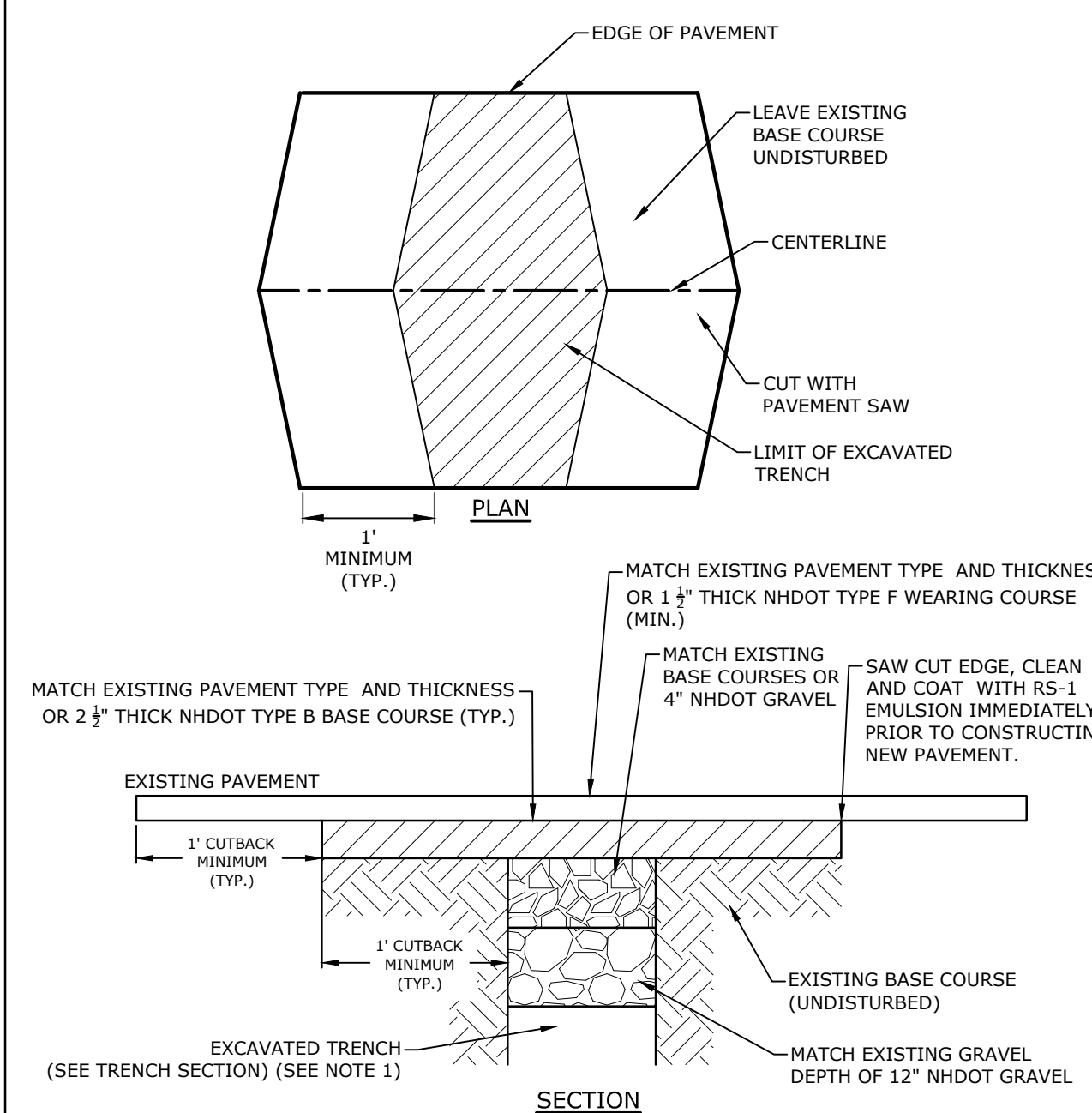
- NOTE:**
1. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.
  2. GAS SHALL BE INSTALLED PER UNTIL STANDARDS. COORDINATE ALL INSTALLATIONS WITH UNTIL AND THE TOWN OF DURHAM.

**GAS TRENCH**  
NO SCALE



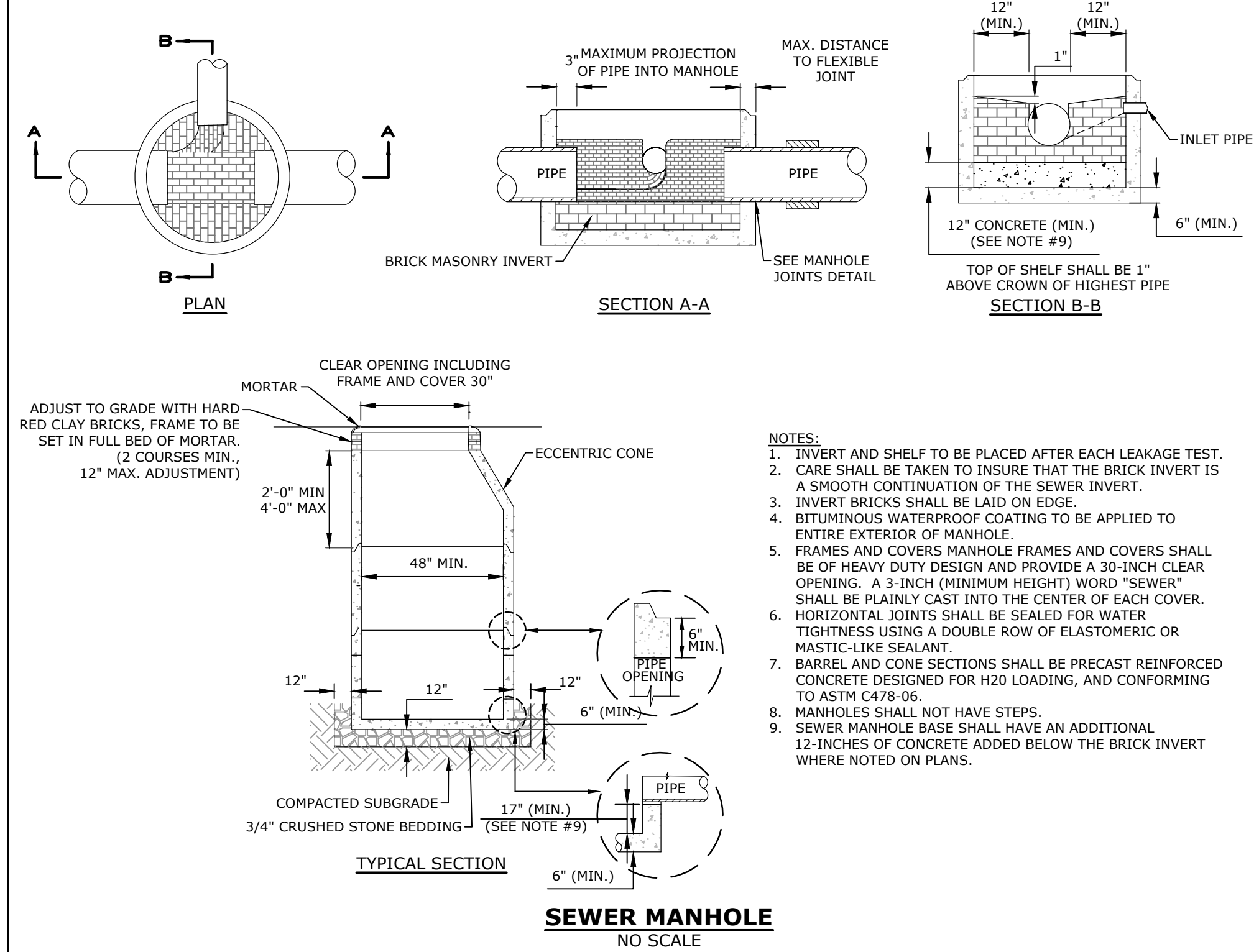
- NOTES:**
1. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.
  2. WATER MAIN SHALL BE INSTALLED PER TOWN OF DURHAM STANDARDS. COORDINATE ALL INSTALLATIONS WITH THE TOWN OF DURHAM.

**WATER TRENCH**  
NO SCALE



- NOTES:**
1. CUT BACK PAVEMENT BEYOND LIMITS OF UNDERMINING (1" MIN.).

**ROADWAY TRENCH PATCH**  
NO SCALE



- NOTES:**
1. INVERT AND SHELF TO BE PLACED AFTER EACH LEAKAGE TEST.
  2. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT.
  3. INVERT BRICKS SHALL BE LAID ON EDGE.
  4. BITUMINOUS WATERPROOF COATING TO BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.
  5. FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
  6. HORIZONTAL JOINTS SHALL BE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF ELASTOMERIC OR MASTIC-LIKE SEALANT.
  7. BARREL AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H2O LOADING, AND CONFORMING TO ASTM C478-06.
  8. MANHOLES SHALL NOT HAVE STEPS.
  9. SEWER MANHOLE BASE SHALL HAVE AN ADDITIONAL 12-INCHES OF CONCRETE ADDED BELOW THE BRICK INVERT WHERE NOTED ON PLANS.

**SEWER MANHOLE**  
NO SCALE

**PERMIT DRAWINGS**  
NOT FOR CONSTRUCTION

**Mill Plaza**  
Redevelopment

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	GENERAL REVISIONS
	1/2/2020	
PROJECT NO:	M1529-002	
DATE:	5/23/2018	
FILE:	M1529-002_C-DTLS.dwg	
DRAWN BY:	EGD	
CHECKED:	JMP	
APPROVED:	BLM	

DETAIL SHEET

SCALE: AS SHOWN

C-505





Harriman Project No. 16117



**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**

**Mill Plaza  
Redevelopment**

**Colonial Durham  
Associates, LP**

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

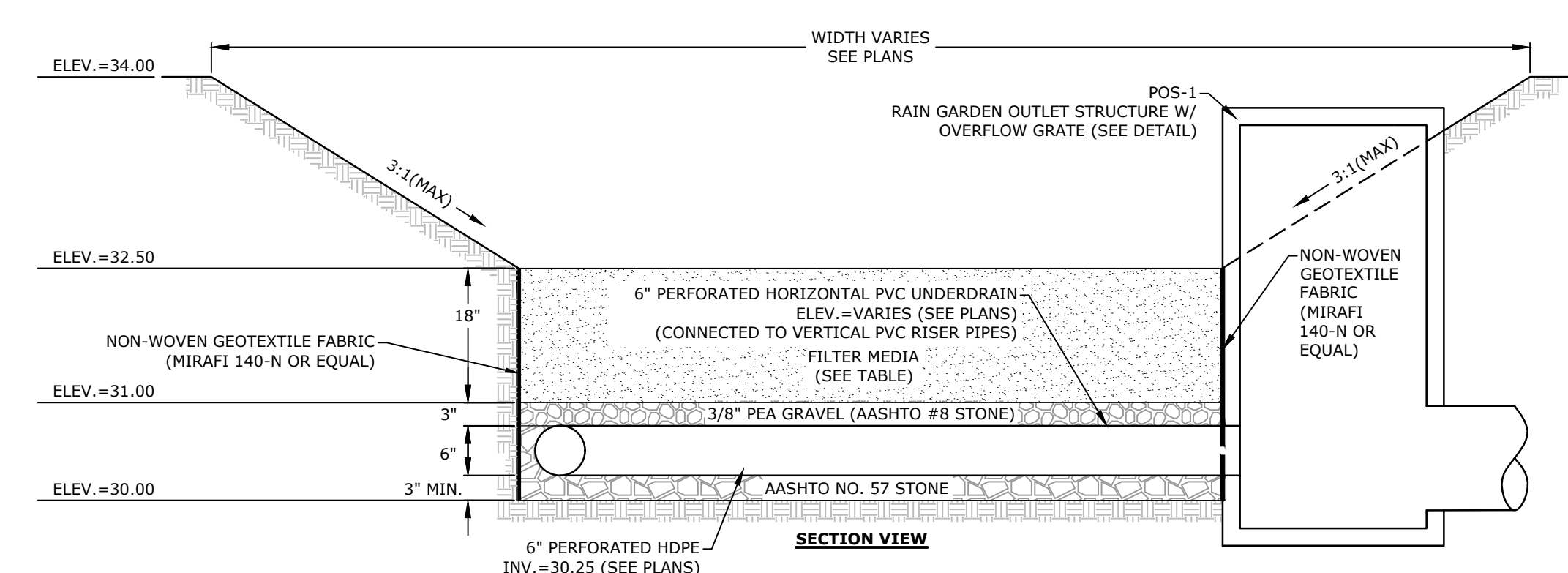
MARK	DATE	DESCRIPTION
2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

PROJECT NO: M1529-002  
DATE: 5/23/2018  
FILE: M1529-002\_C-DTLS.dwg  
DRAWN BY: EGD  
CHECKED: JMP  
APPROVED: BLM

DETAIL SHEET

SCALE: AS SHOWN

C-506



**FILTER MEDIA COMPOSITION:**

COMPONENT MATERIAL	PERCENT OF MIXTURE BY VOLUME	GRADATION OF MATERIAL (SIEVE NO. PERCENT PASSING)
ASTM C-33 CONCRETE SAND	50-55	SEE NOTE #5
LOAMY SAND TOPSOIL	20-30	15-25
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH	20-30	5 MAX.

- NOTES:**
- BARK MULCH SHALL BE AGED A MINIMUM OF 12 MONTHS AND SHALL NOT FLOAT.
  - RAIN GARDENS SHALL NOT BE PLACED INTO SERVICE UNTIL THE PRACTICE HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
  - DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL KEEP ALL EXCAVATION EQUIPMENT OUTSIDE OF THE LIMIT OF THE RAIN GARDEN.
  - SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR LOCATIONS, LAYOUTS, AND ELEVATIONS.
  - THE SAND PORTION OF THE FILTER MEDIA SHALL MEET THE FOLLOWING GRADATION (ASTM C-33):

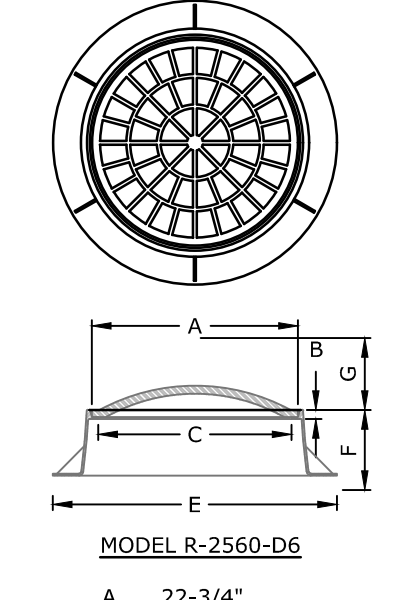
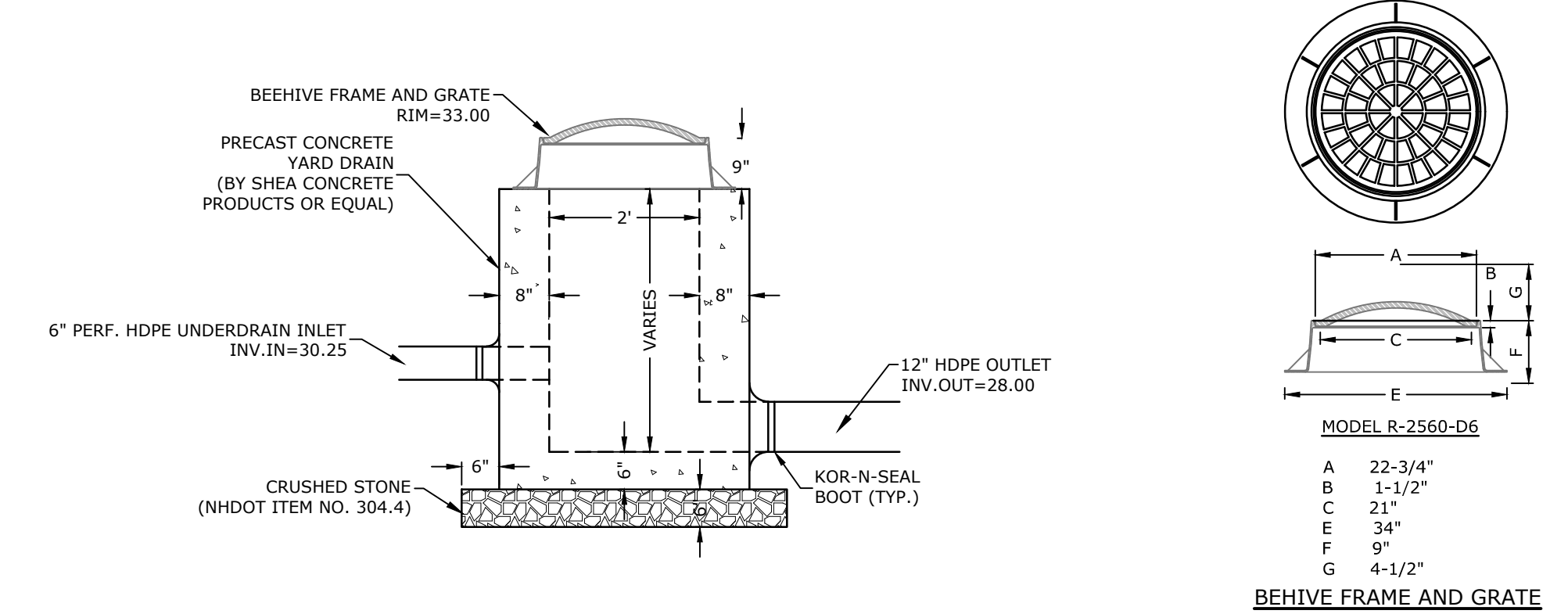
**AASHTO #8 STONE (#8 to 3/8")**

SIEVE SIZE	% PASSING
1/2"	100
3/8"	85-100
#4	10-30
#8	0-10
#16	0-5

**AASHTO #57 STONE (#4 to 1")**

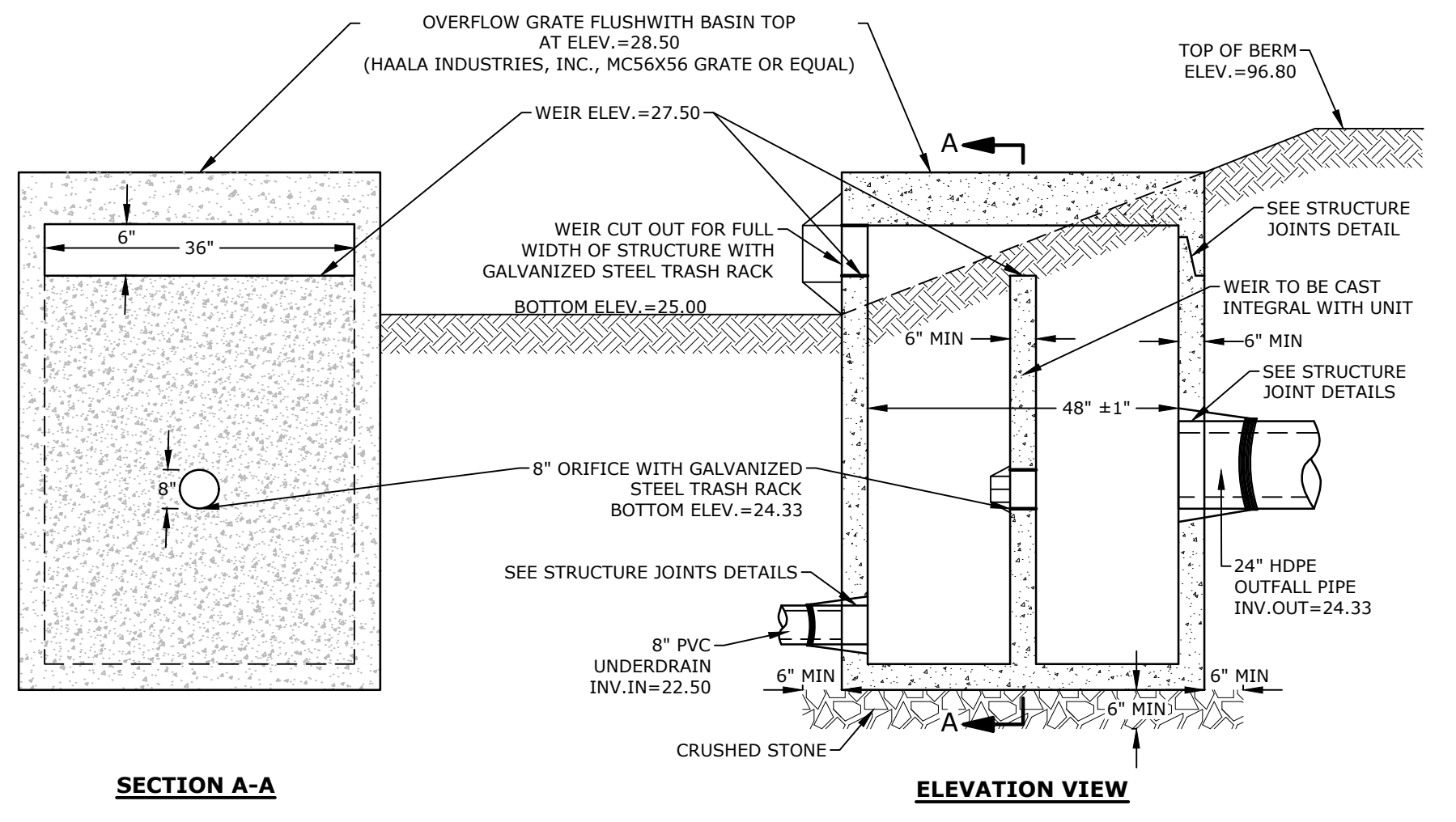
SIEVE SIZE	% PASSING
1-1/2"	100
1"	95-100
1/2"	25-60
#4	0-10
#8	0-5

**RAIN GARDEN  
NO SCALE**



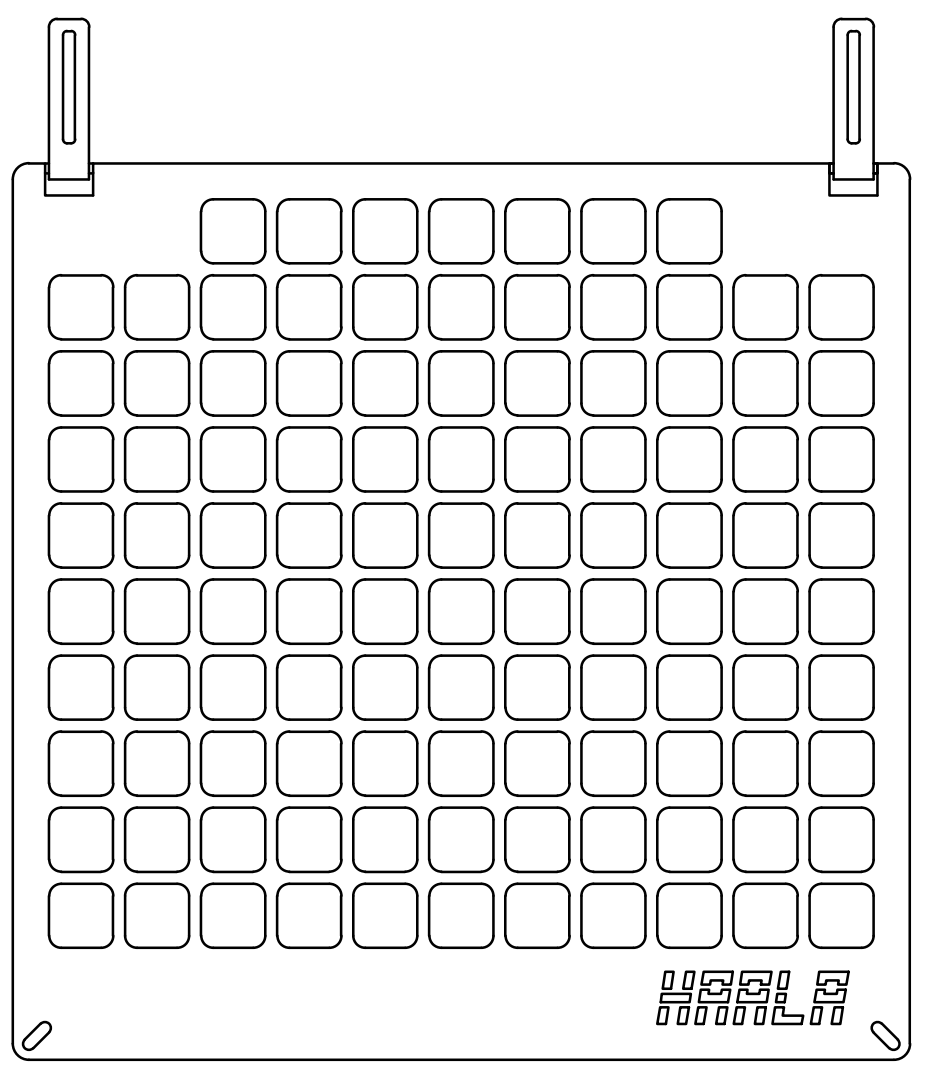
- NOTES:**
- CONCRETE SHALL BE 4,000 PSI (TYPE II CEMENT)
  - SEE SITE, GRADING, DRAINAGE, EROSION CONTROL & UTILITIES PLAN FOR LOCATIONS.
  - THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADINGS.
  - ALL JOINTS ON THE STRUCTURE AND PIPING SHALL BE WATERTIGHT.
  - FRAME AND GRATE SHALL BE NEEHAH FOUNDRIES MODEL R-2560-D8 OR EQUAL.

**PROPOSED OUTLET STRUCTURE (POS1)  
NO SCALE**



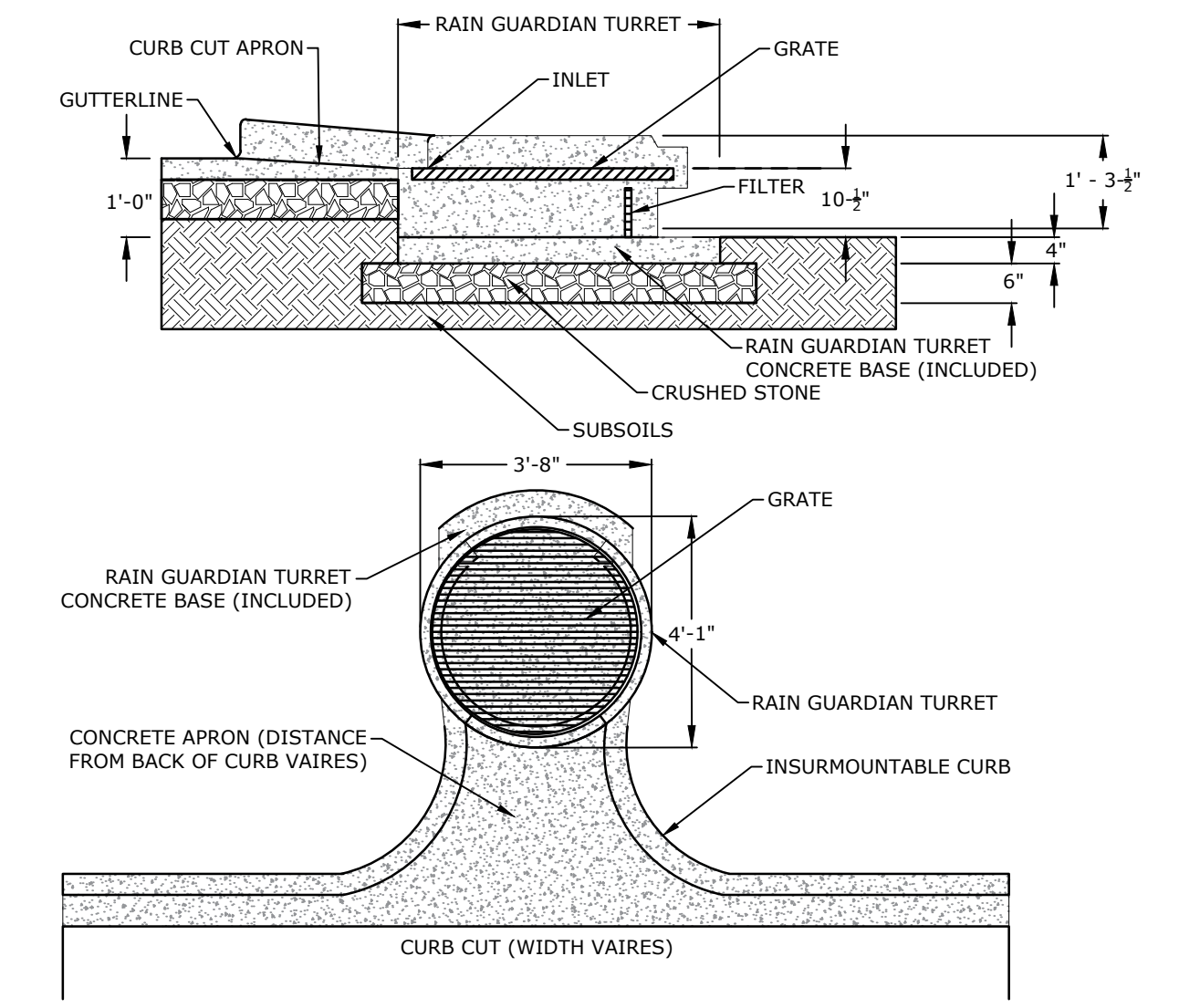
- NOTES:**
- ALL SECTIONS SHALL BE 4,000 PSI CONCRETE (TYPE II CEMENT).
  - CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER OF THE THIRD WALL.
  - THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
  - THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
  - ALL JOINTS ON THE STRUCTURE AND PIPING SHALL BE WATERTIGHT.

**PROPOSED OUTLET STRUCTURE (POS2)  
NO SCALE**



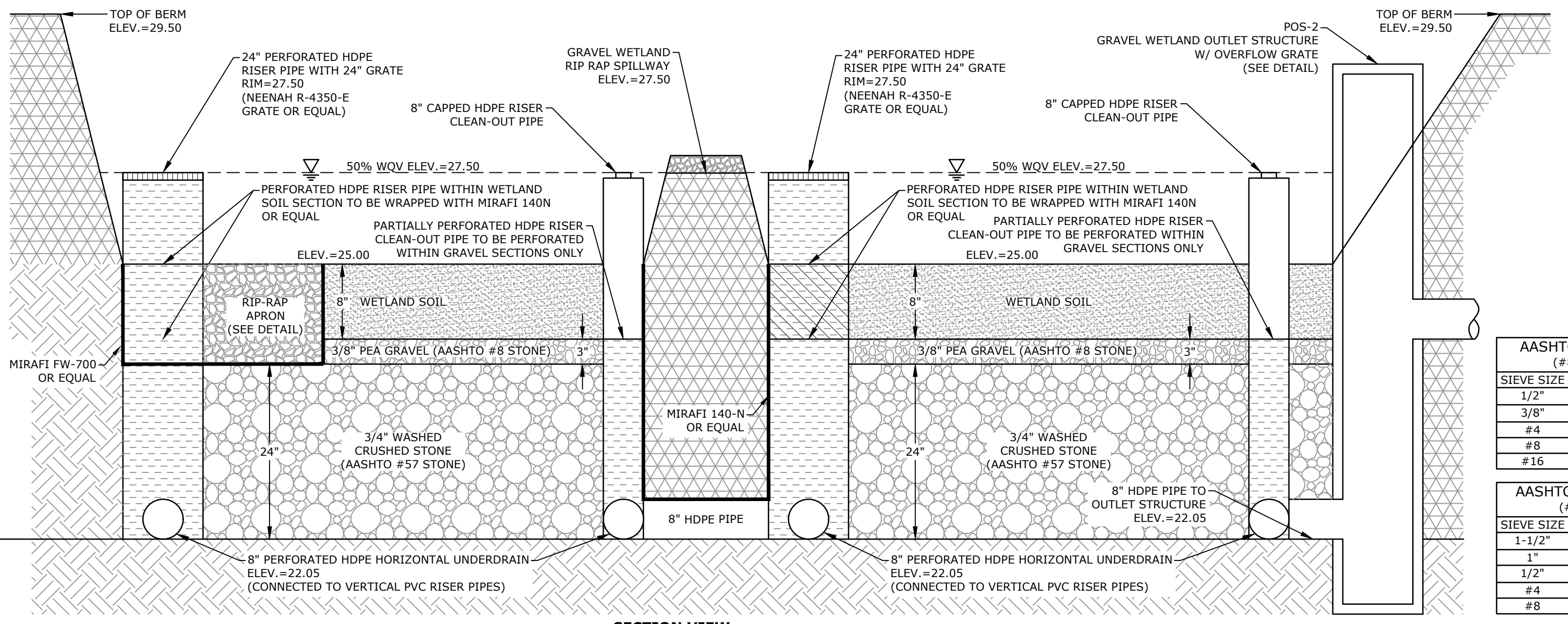
- NOTES:**
- GRATE TO BE CONSTRUCTED OF 3/8" THICK GALVANIZED PLATE.
  - GRATE TO BE SECURED TO CONCRETE STRUCTURE.

**HAALA MICHIE CORP. TOP GRATE (56X56)  
NO SCALE**



- NOTES:**
- RAIN GUARDIAN OR APPROVED EQUAL.
  - CURB INLET SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE RECOMMENDATION.

**RAIN GUARDIAN TURRET  
NO SCALE**



**AASHTO #8 STONE (#8 to 3/8")**

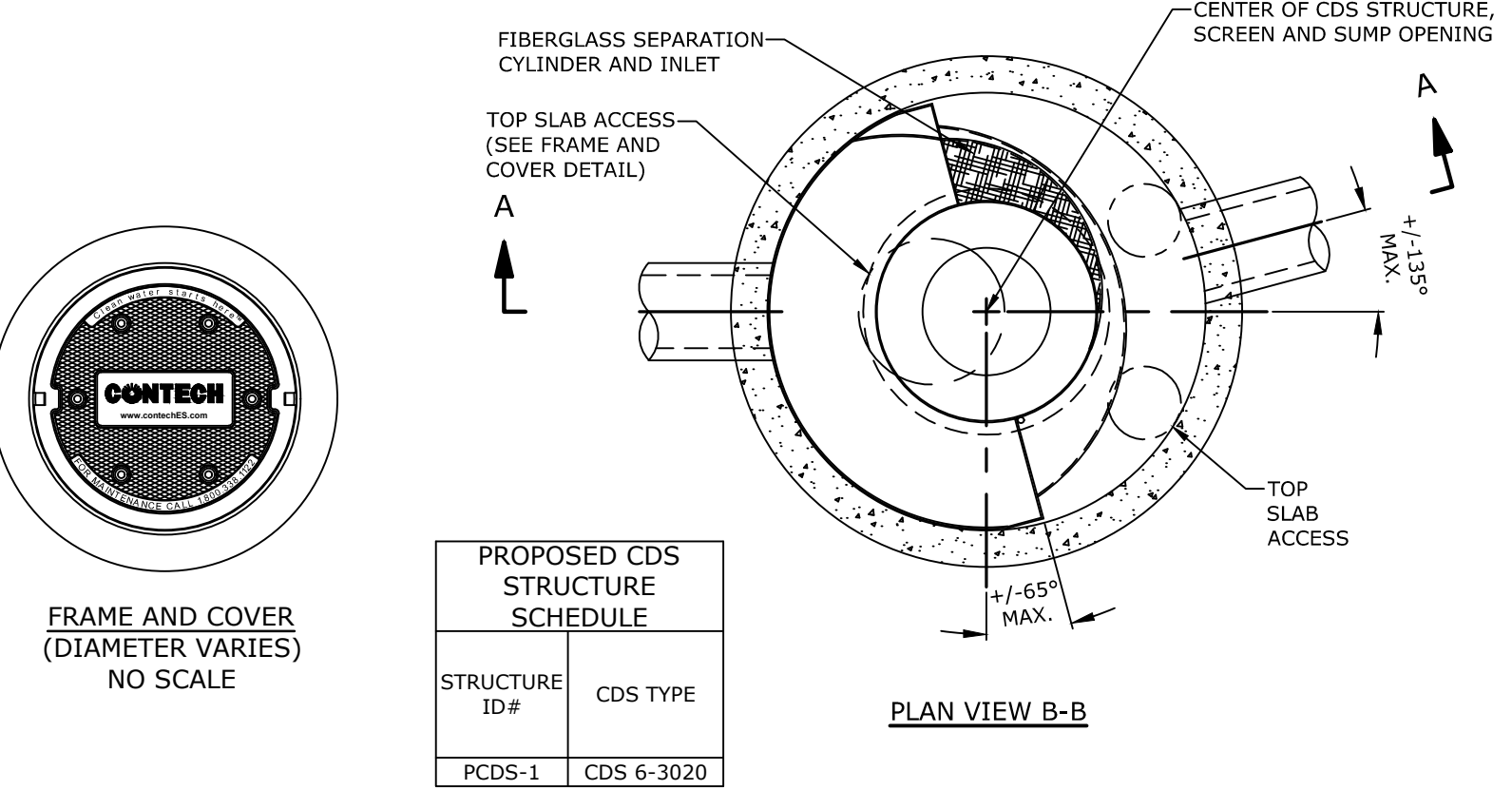
SIEVE SIZE	% PASSING
1/2"	100
3/8"	85-100
#4	10-30
#8	0-10
#16	0-5

**AASHTO #57 STONE (#4 to 1")**

SIEVE SIZE	% PASSING
1-1/2"	100
1"	95-100
1/2"	25-60
#4	0-10
#8	0-5

- NOTES:**
- WETLAND SOIL SHALL BE A SANDY CLAY LOAM WITH A HYDRAULIC CONDUCTIVITY OF 0.1-0.01 FT/DAY. ORGANIC CONTENT SHALL BE GREATER THAN 15% BY VOLUME. CLAY CONTENT SHALL BE LESS THAN 15% BY VOLUME.
  - PERFORATED HDPE RISERS SHALL HAVE VERTICAL SLOTS CUT INTO HDPE RISERS ABOVE GRADE MEASURING 3"x1/8".

**GRAVEL WETLAND  
NO SCALE**

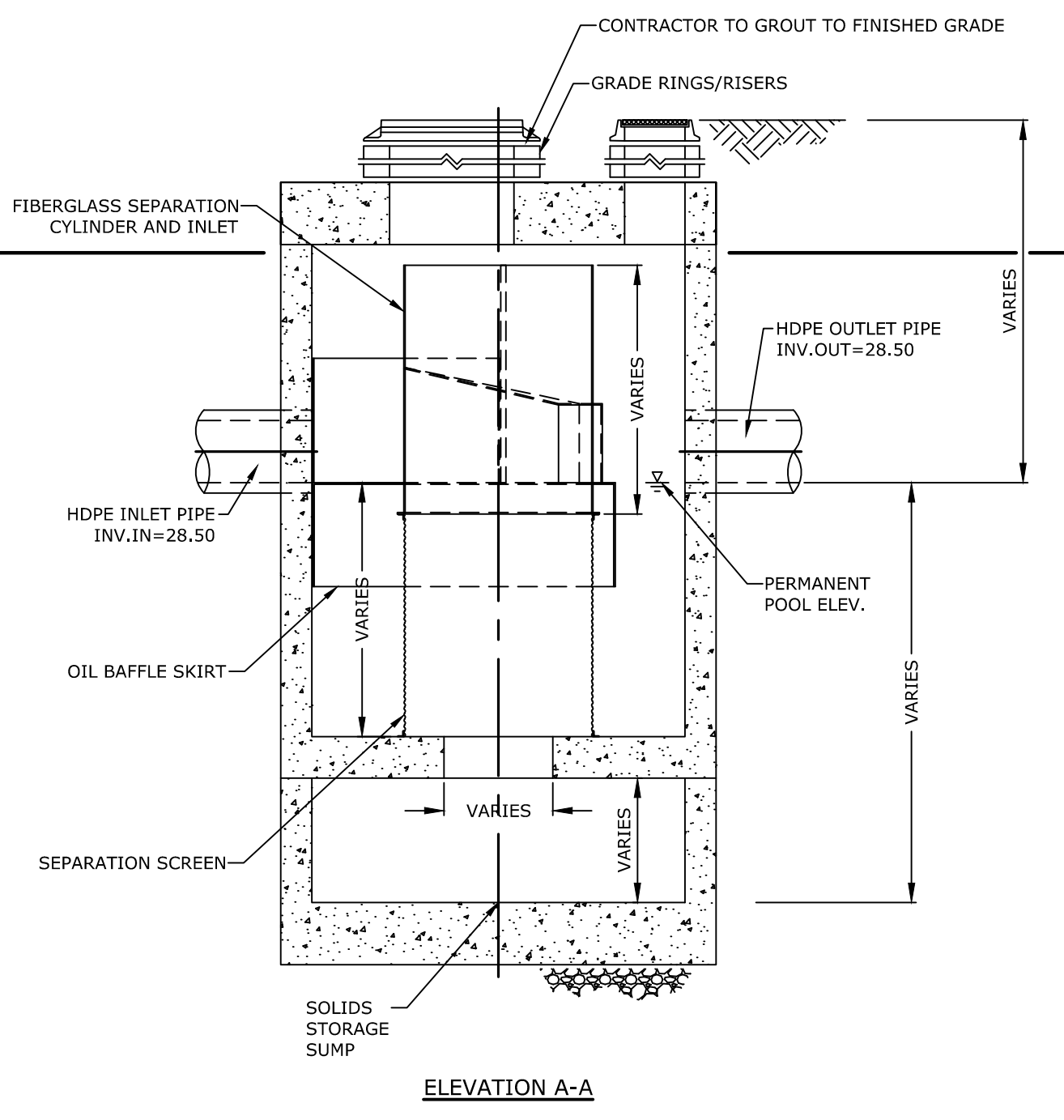


**PROPOSED CDS STRUCTURE SCHEDULE**

STRUCTURE ID#	CDS TYPE
PCDS-1	CDS 6-3020

- GENERAL NOTES:**
- CONTECH TO PROVIDE FINAL DIMENSIONS BASED ON APPROVED FLOWS AND ALL MATERIALS UNLESS NOTED OTHERWISE.
  - CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
  - STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
  - PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- INSTALLATION NOTES:**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
  - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
  - CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
  - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN ON GRADING PLAN.
  - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**PROPOSED CDS UNIT  
NO SCALE**



**ELEVATION A-A**

Left: 5/20/2020  
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 Tighe & Bond 3: M1529-002.dwg  
 LCC 002-Mill Road Plaza Drawings - Figures/AutoCAD/Sheet/M1529-002\_C-DTLS.dwg





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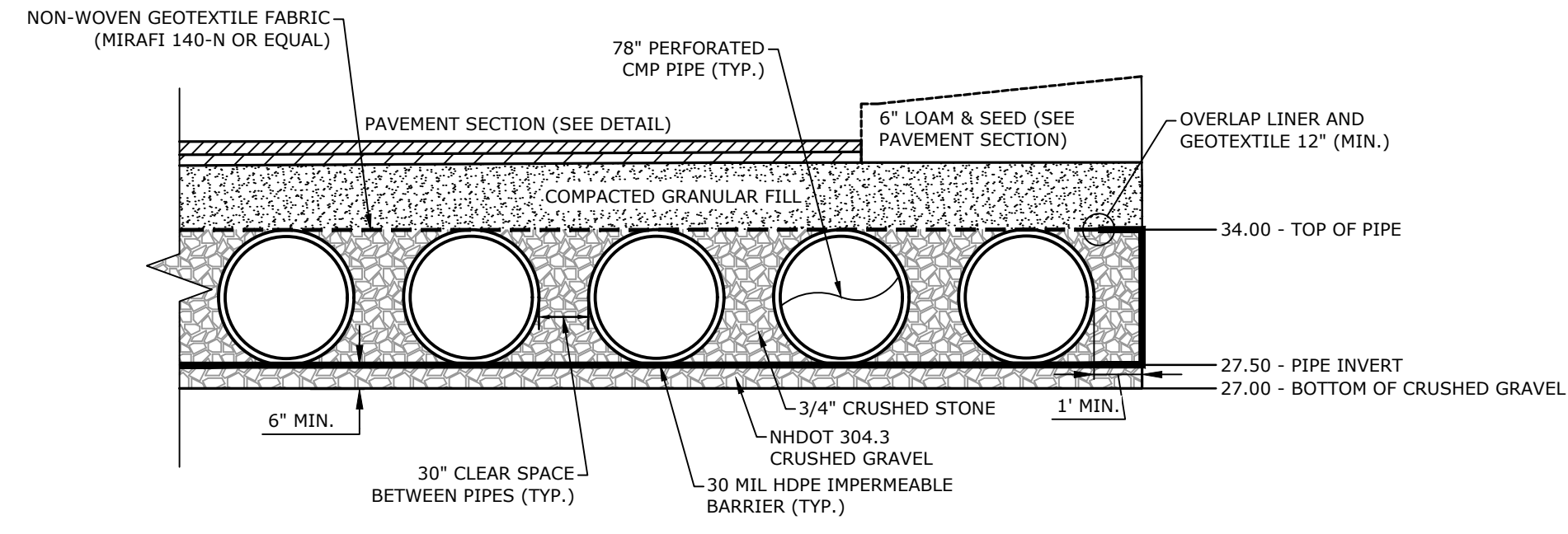
MARK	DATE	DESCRIPTION
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5	1/20/2021	RESPONSE TO COMMENTS
4	11/4/2020	GENERAL REVISIONS
3	8/4/2020	GENERAL REVISIONS
2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

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APPROVED: BLM

DETAIL SHEET

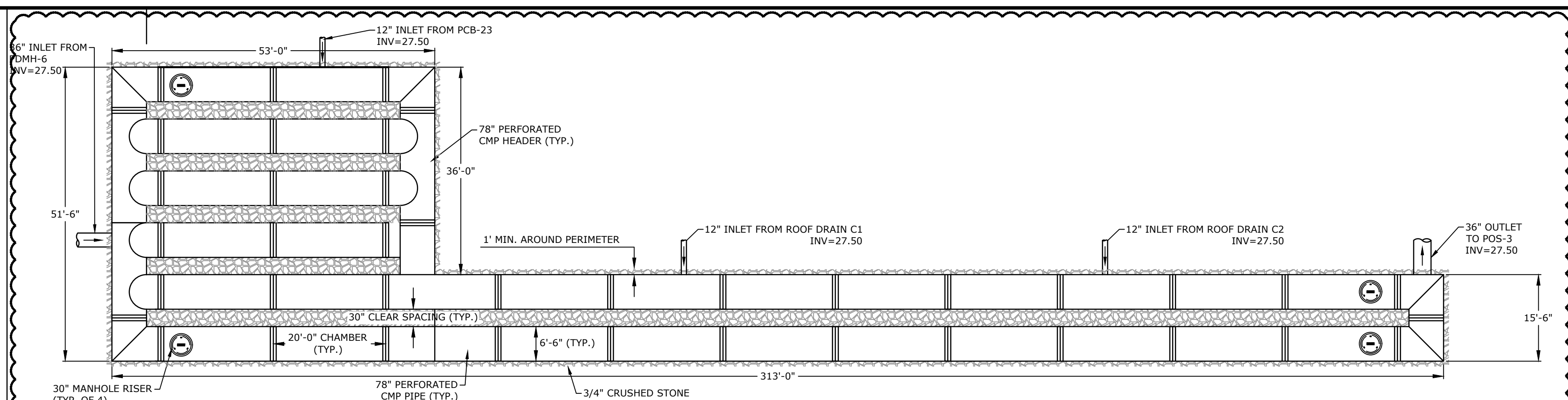
SCALE: AS SHOWN

C-507



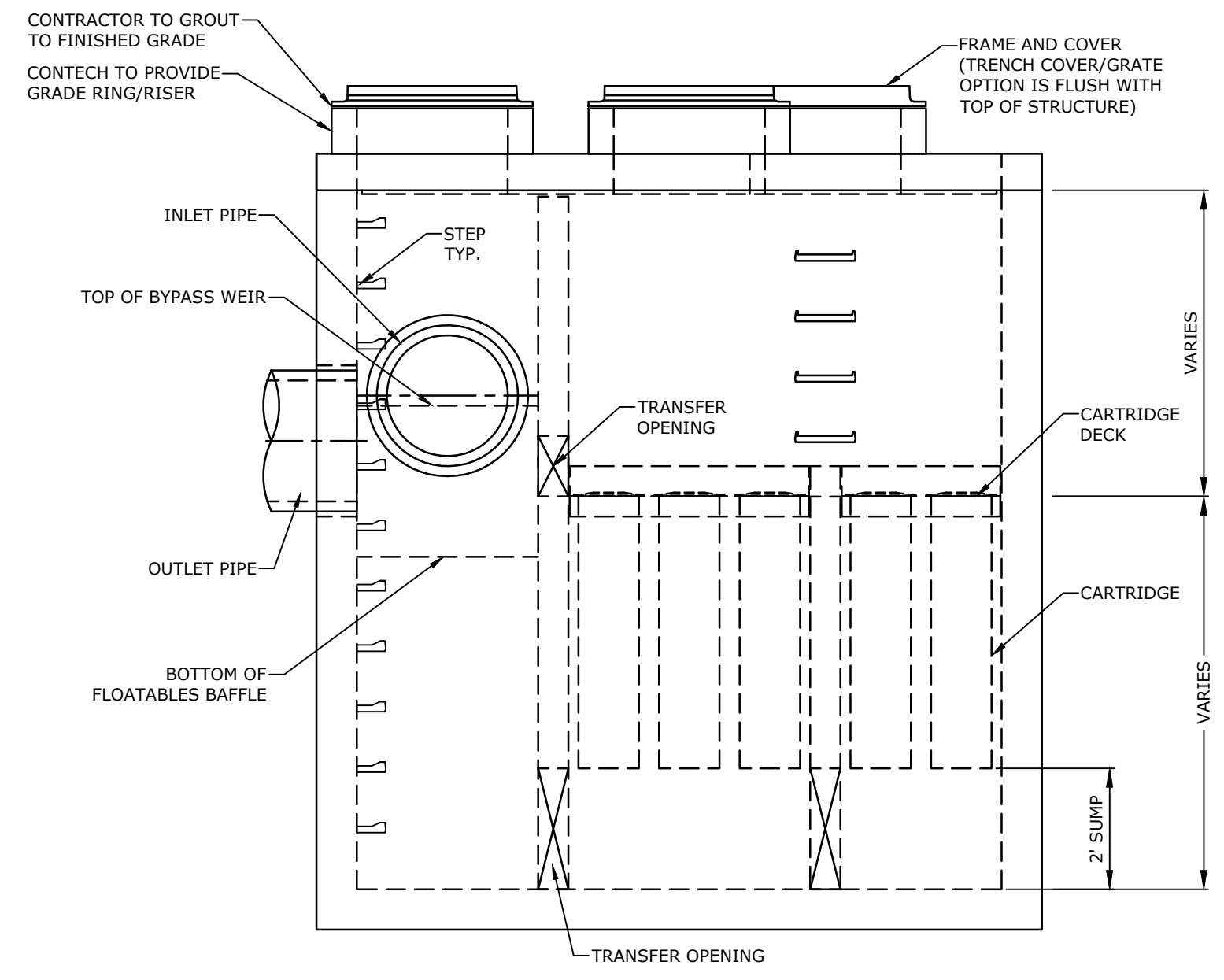
- NOTE:
1. THE UNDERGROUND DETENTION BASIN (UDB) SYSTEM SHALL BE ALUMINIZED 16 GAGE STEEL PIPE DESIGNED FOR H-20 LOADING. CONTRACTOR TO SUBMIT PIPE SPECIFICATIONS AND FINAL MANUFACTURERS DESIGN TO ENGINEER FOR REVIEW AND APPROVAL.
  2. THE CONTRACTOR SHALL SUBMIT PLANS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
  3. THE DESIGN ENGINEER SHALL PROVIDE SUFFICIENT INSPECTION TO CERTIFY THAT THE SYSTEM HAS BEEN INSTALLED PER THE PROPOSED DESIGN PLAN.
  4. THE DESIGN SHALL REQUIRE INSPECTION PORTS/COVERS SUCH THAT SYSTEM CAN BE CLEANED BY VACUUM TRUCK WITH A MINIMUM OF ONE IN EACH CORNER.
  5. APPROXIMATE LENGTH OF 60" PERFORATED CMP = 880 LF
  6. APPROXIMATE LENGTH OF 60" PERFORATED CMP HEADER = 57 LF

**UNDERGROUND DETENTION BASIN**  
NO SCALE

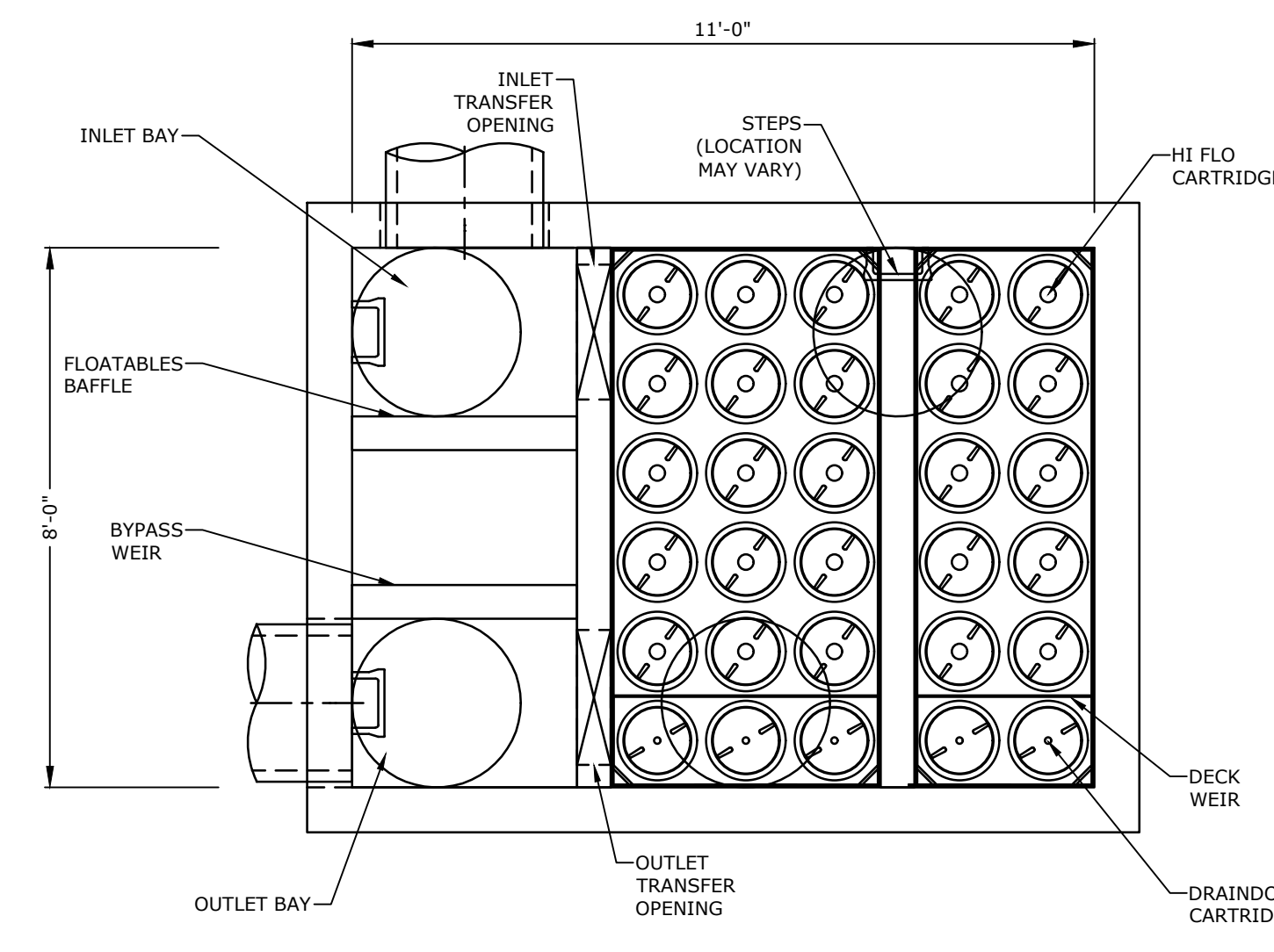


- NOTE:
1. THE UNDERGROUND DETENTION BASIN (UDB) SYSTEM SHALL BE ALUMINIZED 16 GAGE STEEL PIPE DESIGNED FOR H-20 LOADING. CONTRACTOR TO SUBMIT PIPE SPECIFICATIONS AND FINAL MANUFACTURERS DESIGN TO ENGINEER FOR REVIEW AND APPROVAL.
  2. THE CONTRACTOR SHALL SUBMIT PLANS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
  3. THE DESIGN ENGINEER SHALL PROVIDE SUFFICIENT INSPECTION TO CERTIFY THAT THE SYSTEM HAS BEEN INSTALLED PER THE PROPOSED DESIGN PLAN.
  4. THE DESIGN SHALL REQUIRE INSPECTION PORTS/COVERS SUCH THAT SYSTEM CAN BE CLEANED BY VACUUM TRUCK WITH A MINIMUM OF ONE IN EACH CORNER.
  5. APPROXIMATE LENGTH OF 78" PERFORATED CMP = 760 LF
  6. APPROXIMATE LENGTH OF 78" PERFORATED CMP HEADER = 103 LF

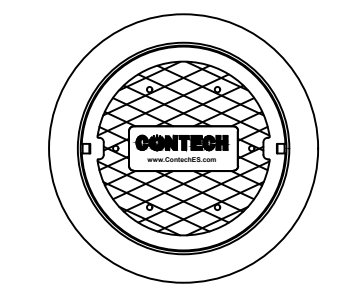
**UNDERGROUND DETENTION BASIN**  
NO SCALE



ELEVATION VIEW



PLAN VIEW  
(TOP SLAB NOT SHOWN FOR CLARITY)  
NO SCALE

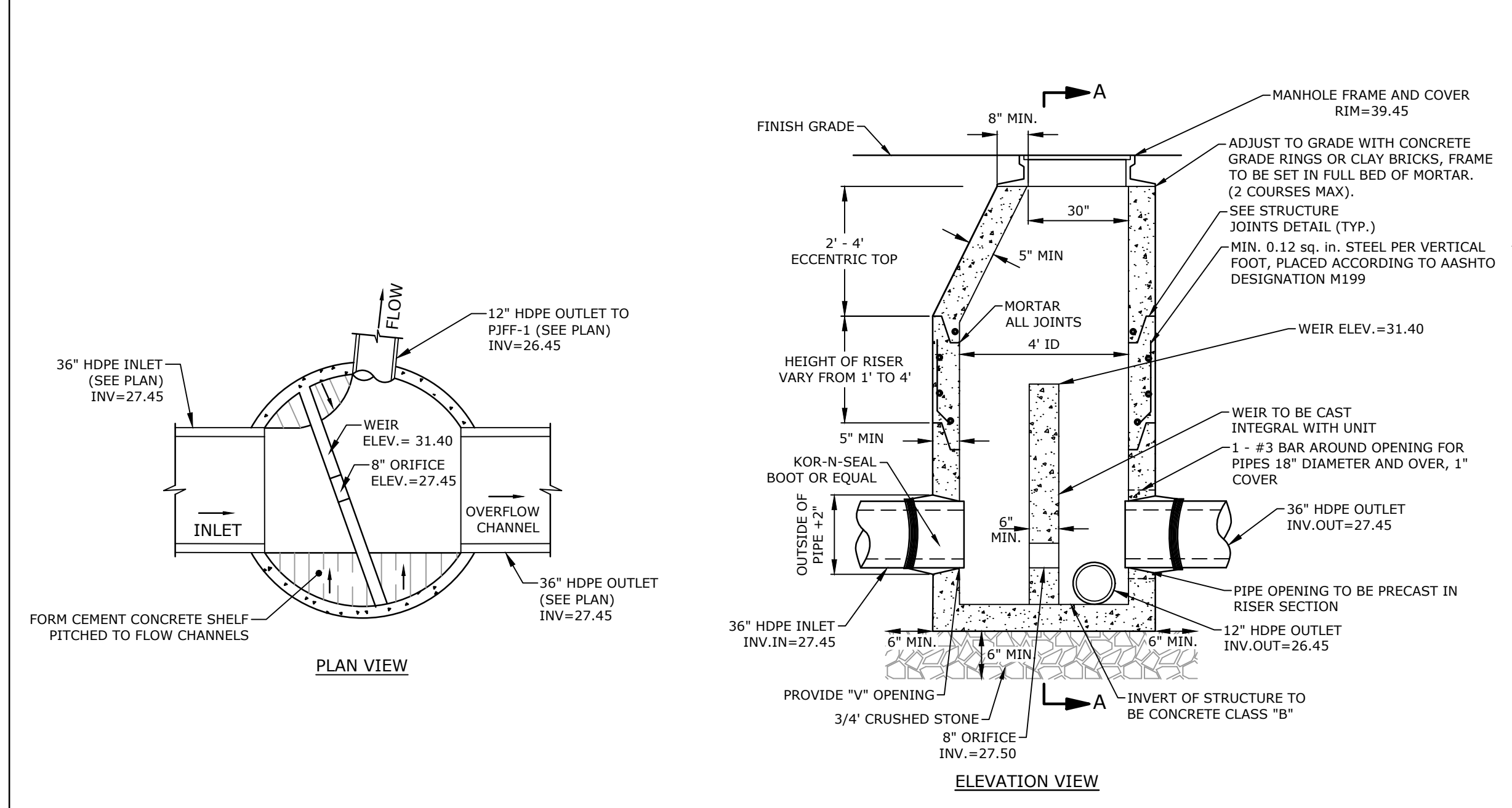


FRAME AND COVER  
(DIAMETER VARIES)  
NO SCALE

JELLYFISH FILTER STRUCTURE SCHEDULE	
JFF TYPE	
JFPD0811-16-4	

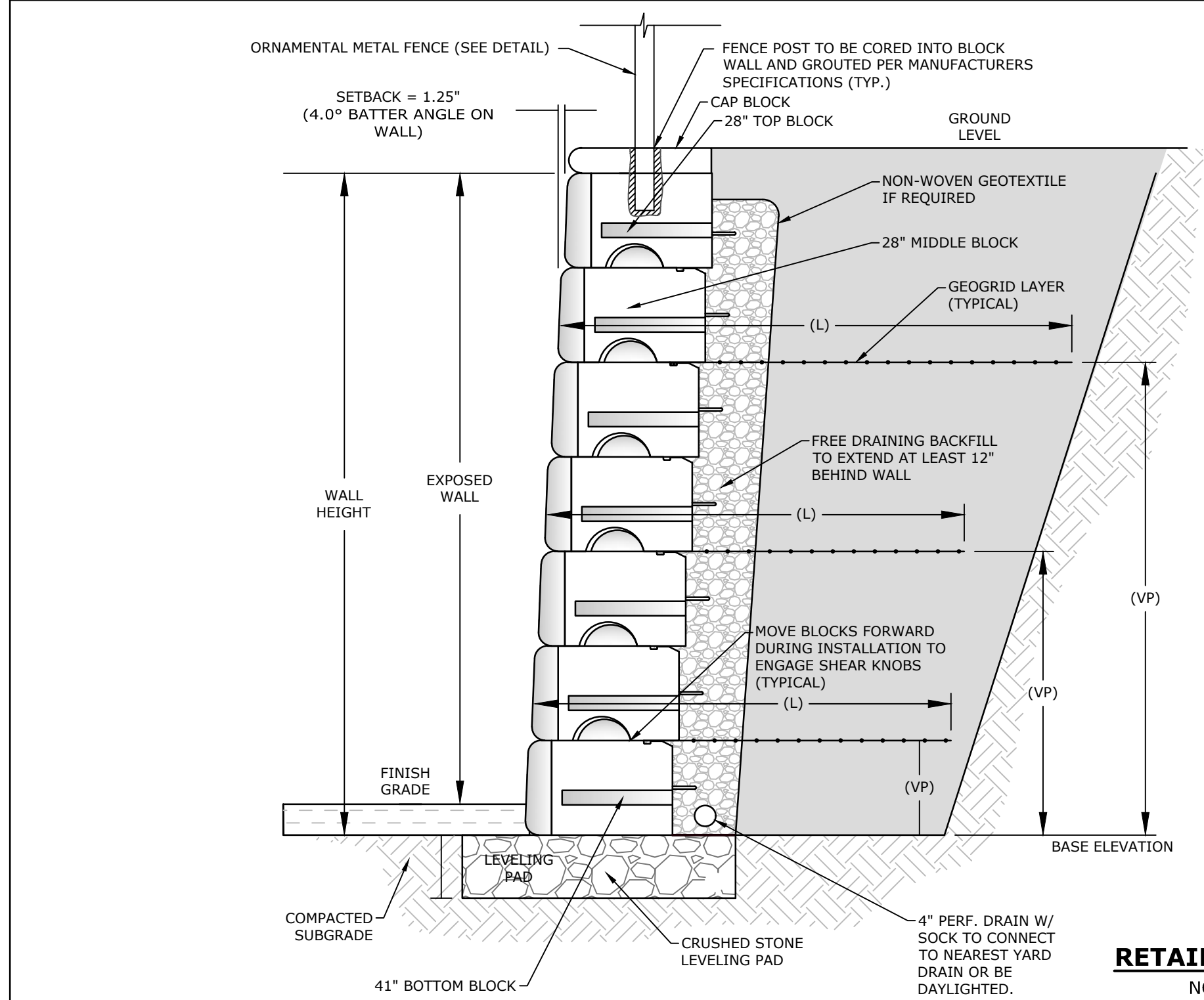
- GENERAL NOTES:
1. CONTECH TO PROVIDE FINAL DIMENSIONS BASED ON APPROVED FLOWS AND ALL MATERIALS UNLESS NOTED OTHERWISE.
  2. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
  3. STRUCTURE SHALL MEET AASHTO HS-20 LOADING REQUIREMENTS. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
  4. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- INSTALLATION NOTES:
- A. CONTRACTOR SHALL PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
  - B. CONTRACTOR SHALL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
  - C. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
  - D. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

**RECTANGULAR JELLYFISH FILTER UNIT**  
NO SCALE



ELEVATION VIEW

**UNDERGROUND DETENTION BASIN OUTLET STRUCTURE (POS3)**  
NO SCALE



**RETAINING WALL**  
NO SCALE

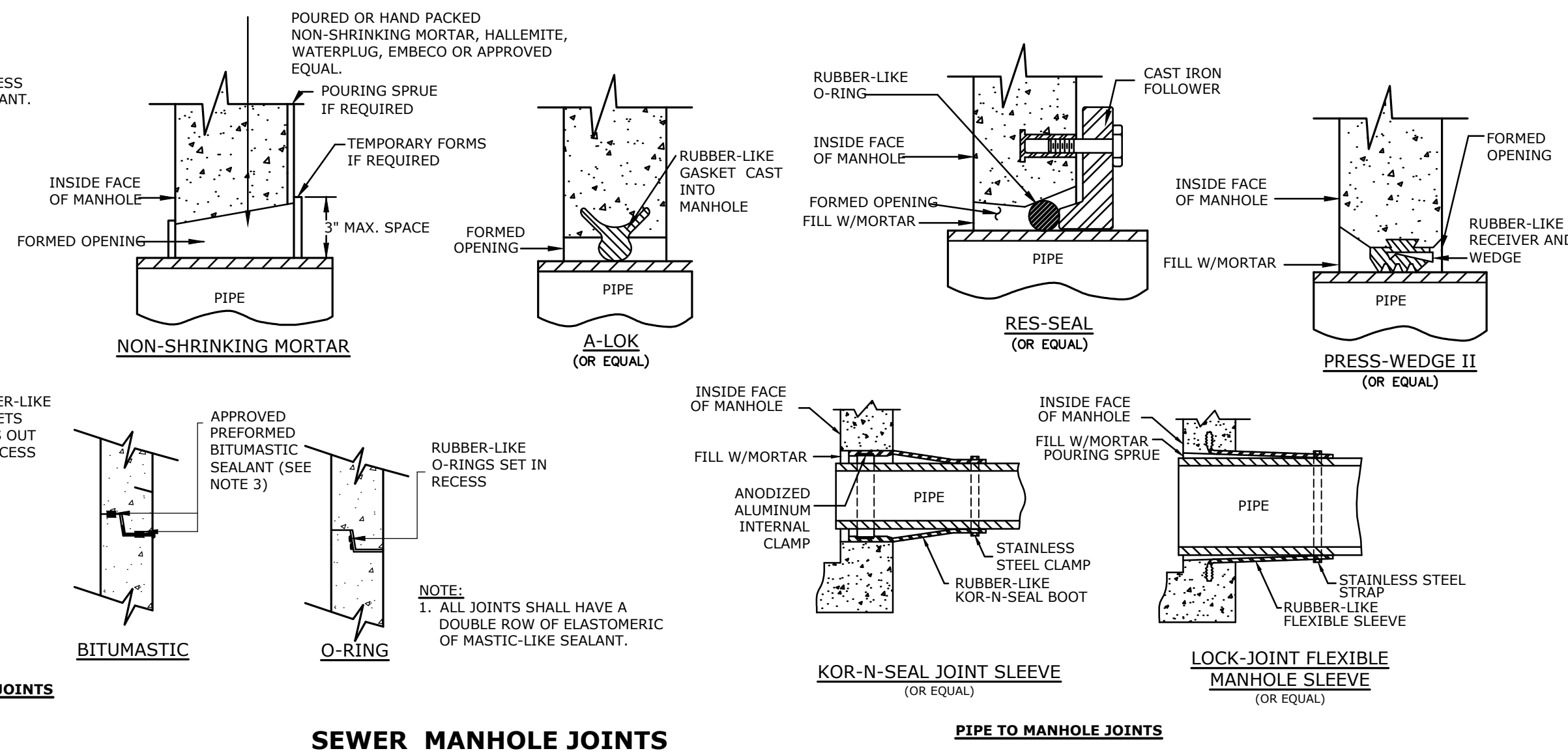
- NOTES:
1. RETAINING WALL SHALL BE RED ROCK LEDGESTONE, OR APPROVED EQUAL.
  2. THE CONTRACTOR SHALL SUBMIT DESIGN AND CALCULATIONS FOR THE RETAINING WALL THAT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. CALCULATIONS SHALL INCLUDE A GLOBAL STABILITY ANALYSIS.
  3. MINIMUM DESIGN PARAMETERS:  
- GLOBAL STABILITY FACTOR OF SAFETY = 1.3  
- OVERTURNING FACTOR OF SAFETY = 2.0  
- SLIDING FACTOR OF SAFETY = 1.5  
- GEOGRID PULLOUT FACTOR OF SAFETY = 1.5  
- SEISMIC FACTOR OF SAFETY = 1.1
  4. WALL DESIGN SHALL CONSIDER EFFECTS OF SLOPE, TRAFFIC LOADS, BUILDING LOADS, GUARDRAIL AND/OR FENCING AS REQUIRED.
  5. WALL DESIGN ENGINEER SHALL CONSIDER HEIGHT AND SPECIFY SAFETY RAIL WHERE REQUIRED
  6. ALL INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS' INSTALLATION MANUAL AND THE WALL DESIGN ENGINEER'S DESIGN PLANS AND SPECIFICATIONS.
  7. THE WALL DESIGN ENGINEER SHALL COMPLETE SUFFICIENT INSPECTIONS DURING CONSTRUCTION TO CERTIFY WORK IS COMPLETED IN ACCORDANCE WITH DESIGN.
  8. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS OF WALL WITH WALL DESIGNER'S CERTIFICATION TO OWNER.
  9. CONTRACTOR SHALL DIRECT SURFACE RUNOFF AWAY FROM THE WALL SURFACE CONSTRUCTION.
  10. ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT OR OTHER SURFACE TREATMENT SHALL BE INSTALLED IN THE AREA OF THE WALL IMMEDIATELY AFTER THE WALL IS COMPLETE OR OTHER MEASURES SHALL BE TAKEN TO PROTECT THE WALL FROM RUNOFF.
  11. CONTRACTOR SHALL SUPPLY SAMPLE TO THE OWNER FOR APPROVAL PRIOR TO WALL CONSTRUCTION.

(VP) = VERTICAL PLACEMENT OF GEOGRID LAYERS. MEASUREMENTS ARE FROM THE BASE ELEVATION.  
(L) = LENGTH OF GEOGRID. MEASUREMENTS ARE FROM THE FACE OF THE BLOCK.

Last Saved: 3/10/2021  
 Plotted On: Mar 10, 2021 1:15pm By: Edoremus  
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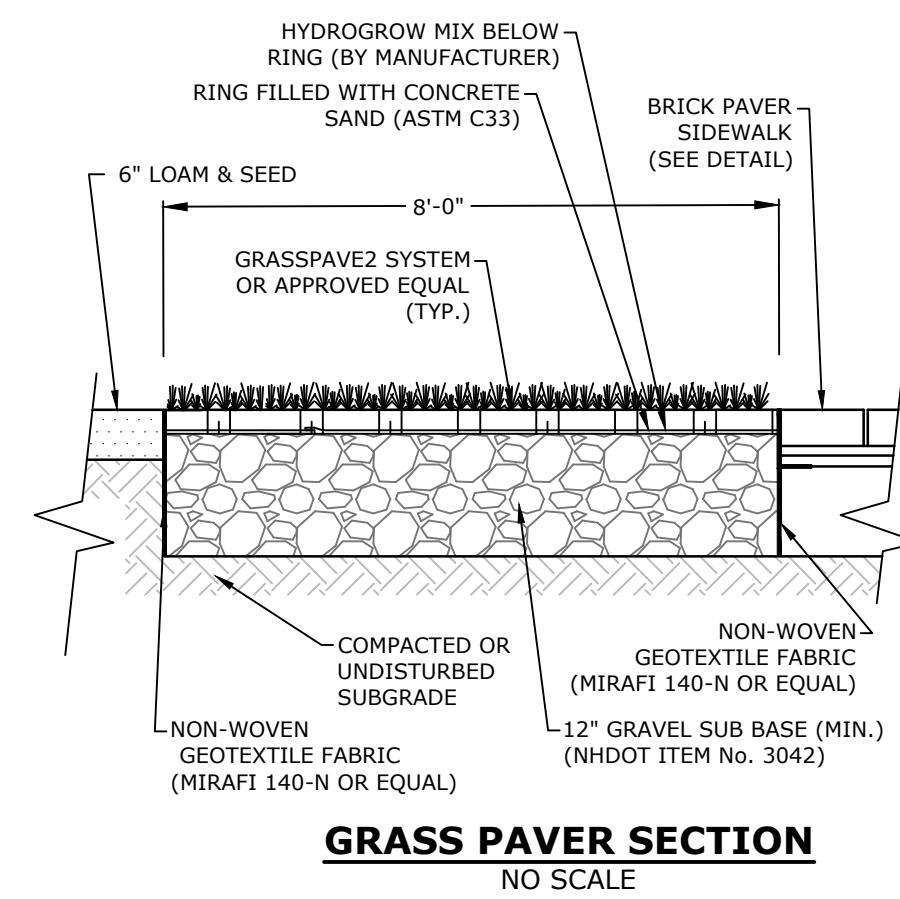


- NOTES:**
- HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ENGINEER. WHICH TYPE SHALL BE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF ELASTOMERIC OR MASTIC-LIKE SEALANT.
  - PIPE TO MANHOLE JOINTS SHALL BE ONLY AS APPROVED BY THE ENGINEER IN GENERAL AND, IN GENERAL, WILL DEPEND FOR WATER TIGHTNESS UPON EITHER AN APPROVED NON-SHRINKING MORTAR OR ELASTOMERIC SEALANT.
  - FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.
  - ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

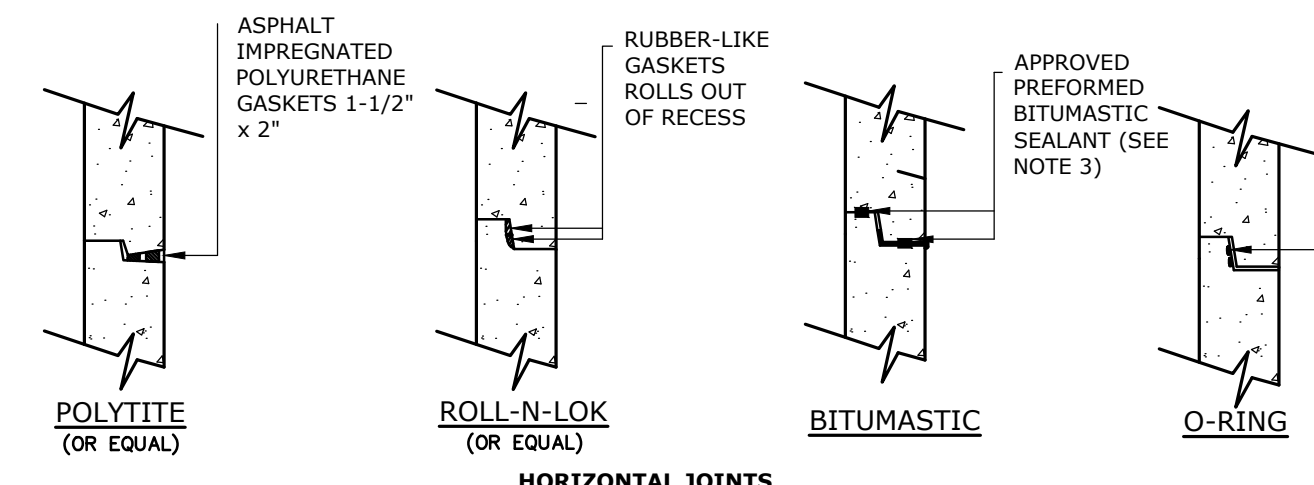


**SEWER MANHOLE JOINTS**  
NO SCALE

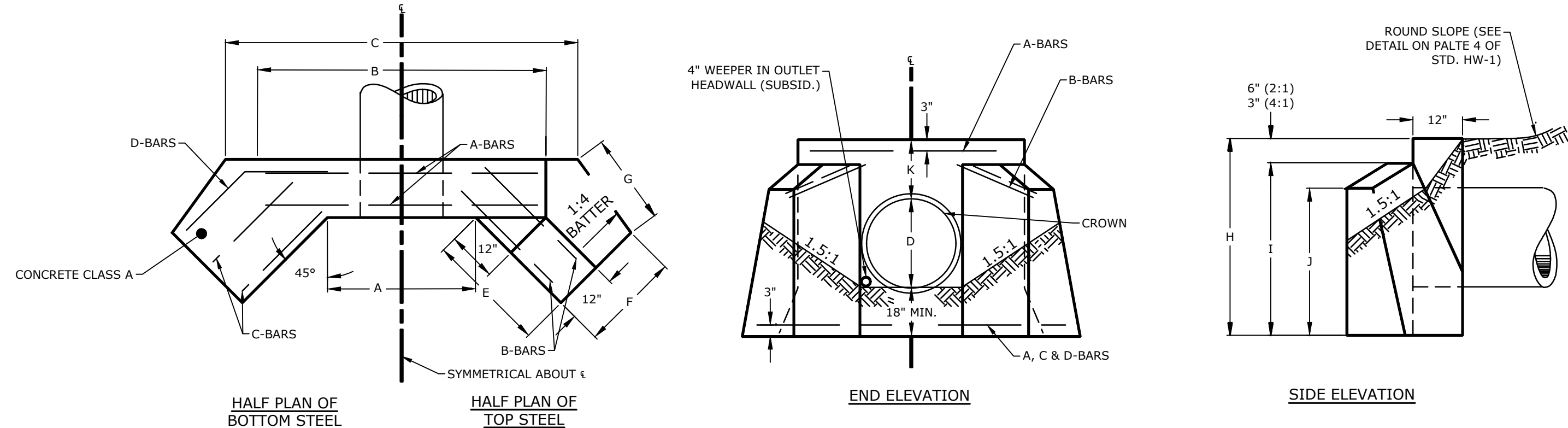
**PIPE TO MANHOLE JOINTS**



**GRASS PAVER SECTION**  
NO SCALE



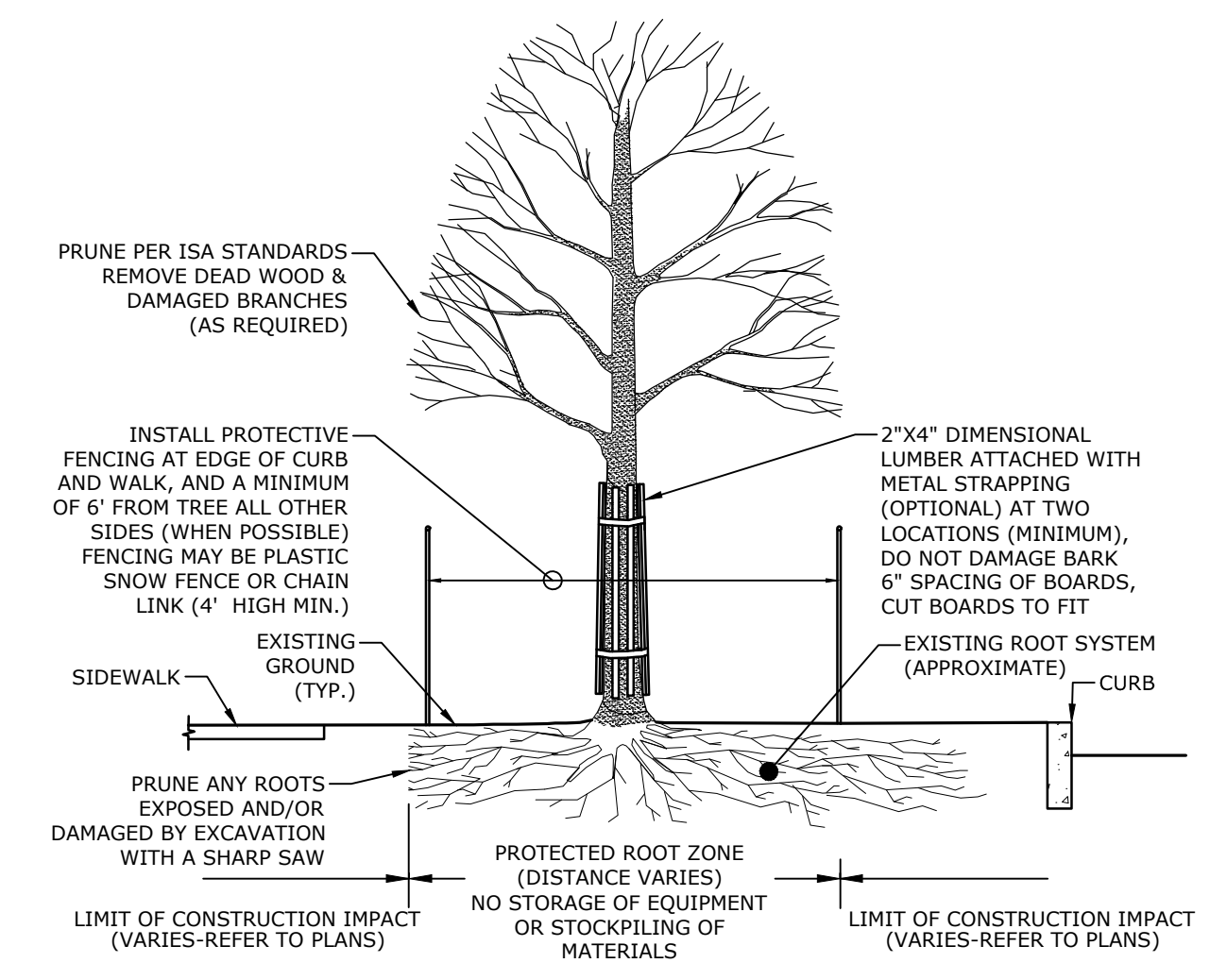
**HORIZONTAL JOINTS**



DIAMETER (INCHES)	QUANTITIES PER HEADER			DIMENSIONS										REINFORCING STEEL						
	CONC (CY. YD.)	STEEL (LB)	EXC. FOR 1' DEPTH (CU. YD.)	A	B	C	E	F	G	H	I	J	K	SIZE	LENGTH				D BARS	
				a	b	c	d	a	b											
36	3.24	47	2.12	3'-8"	6'-6"	8'-5"	4'-2"	2'-1"	3'-3"	6'-0"	5'-6"	4'-4"	1'-6"	#4	6'-2"	4'-3"	4'-1"	5'-10"	2'-8"	3'-2"

NOTE: ALL LIKE BAR IN EACH HEADWALL ARE THE SAME SIZE. EACH STD. HEADER HAS 4 A, B & C-BARS, AND 2 D-BARS

**CONCRETE FLARED END SECTION**  
NO SCALE

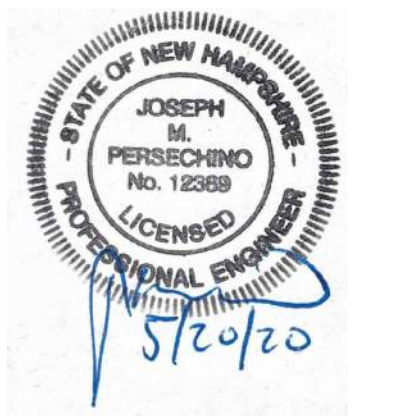


**TREE PROTECTION FOR EXISTING TREE**  
NO SCALE

NOTE: 1. CONTRACTOR SHALL WALK THE PERIMETER OF THE SITE WITH OWNER PRIOR TO CONSTRUCTION TO IDENTIFY TREES TO BE PROTECTED DURING CONSTRUCTION.



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NOT FOR CONSTRUCTION

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Colonial Durham Associates, LP

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2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

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CHECKED BY: JMP  
APPROVED BY: BLM

DETAIL SHEET

SCALE: AS SHOWN

C-508

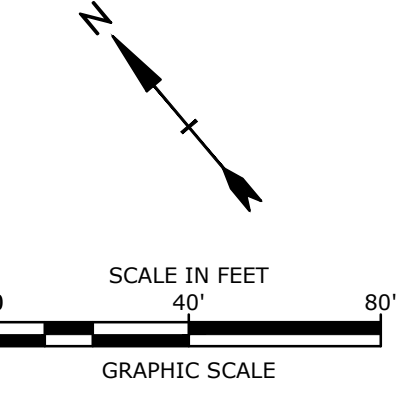


NOTES:  
 1. FIRE TRUCK SHOWN (E-ONE HP100 AERIAL) IS EQUIVALENT TO TOWN OF DURHAM, NH LADDER 3 (1996 E-ONE 110 FOOT AERIAL)



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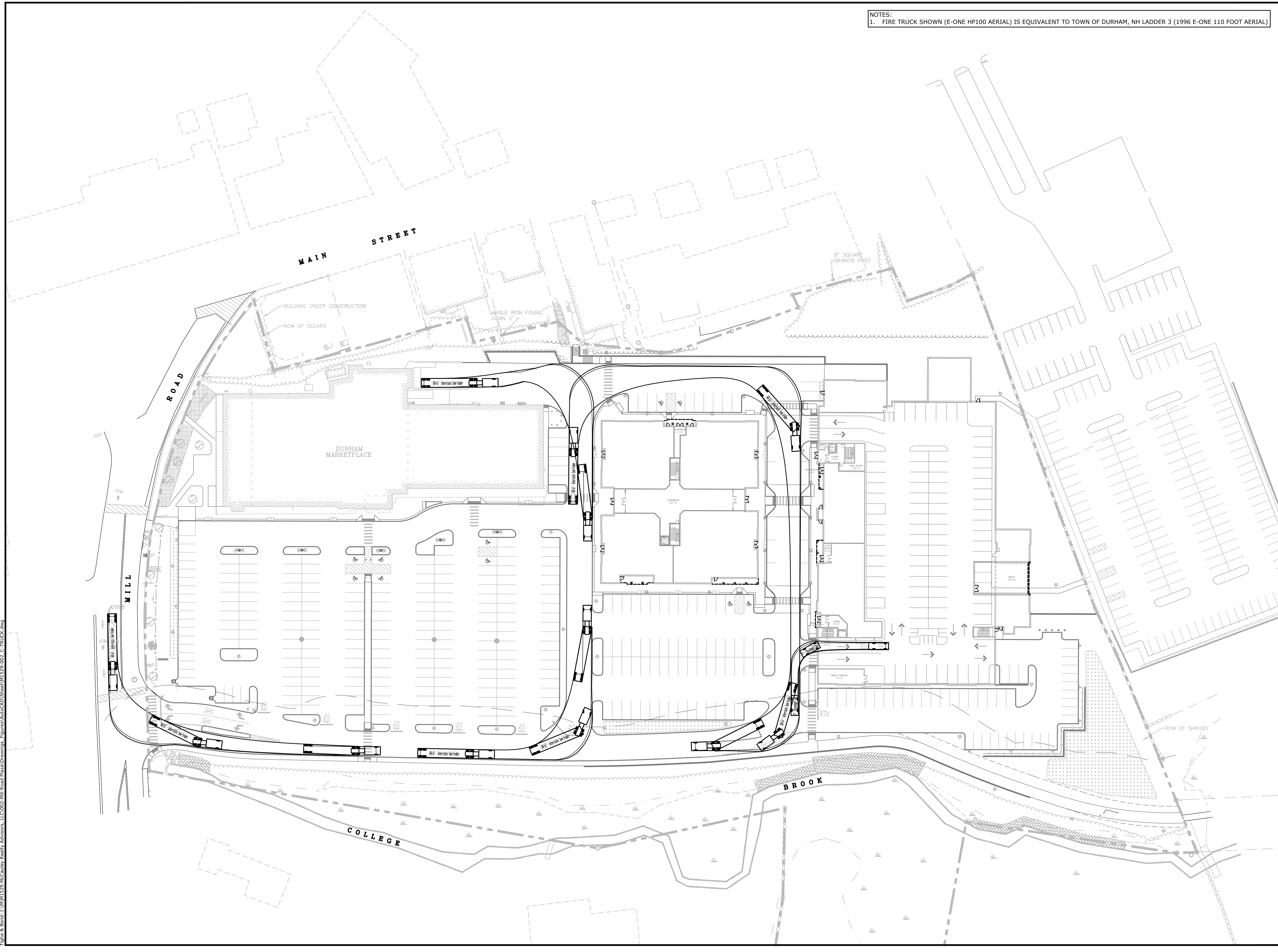
MARK	DATE	DESCRIPTION
	1/2/2020	GENERAL REVISIONS
	5/23/2018	

PROJECT NO: M1529-002  
 DATE: 5/23/2018  
 FILE: M1529-002\_C-TRUCK.dwg  
 DRAWN BY: EGD  
 CHECKED: JMP  
 APPROVED: BLM

**TRUCK TURNING PLAN**

SCALE: AS SHOWN

**C-601**



Last Saved: 12/27/2019 3:58pm By: EDorvius  
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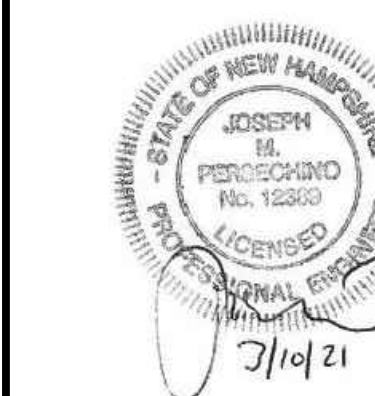




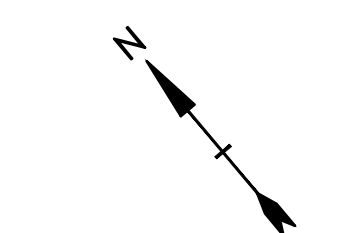
**HARRIMAN**

AUBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117



**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



SCALE IN FEET  
0 40' 80'  
GRAPHIC SCALE

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Redevelopment**

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4	11/4/2020	GENERAL REVISIONS
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2	5/20/2020	RESPONSE TO COMMENTS
1	1/2/2020	GENERAL REVISIONS

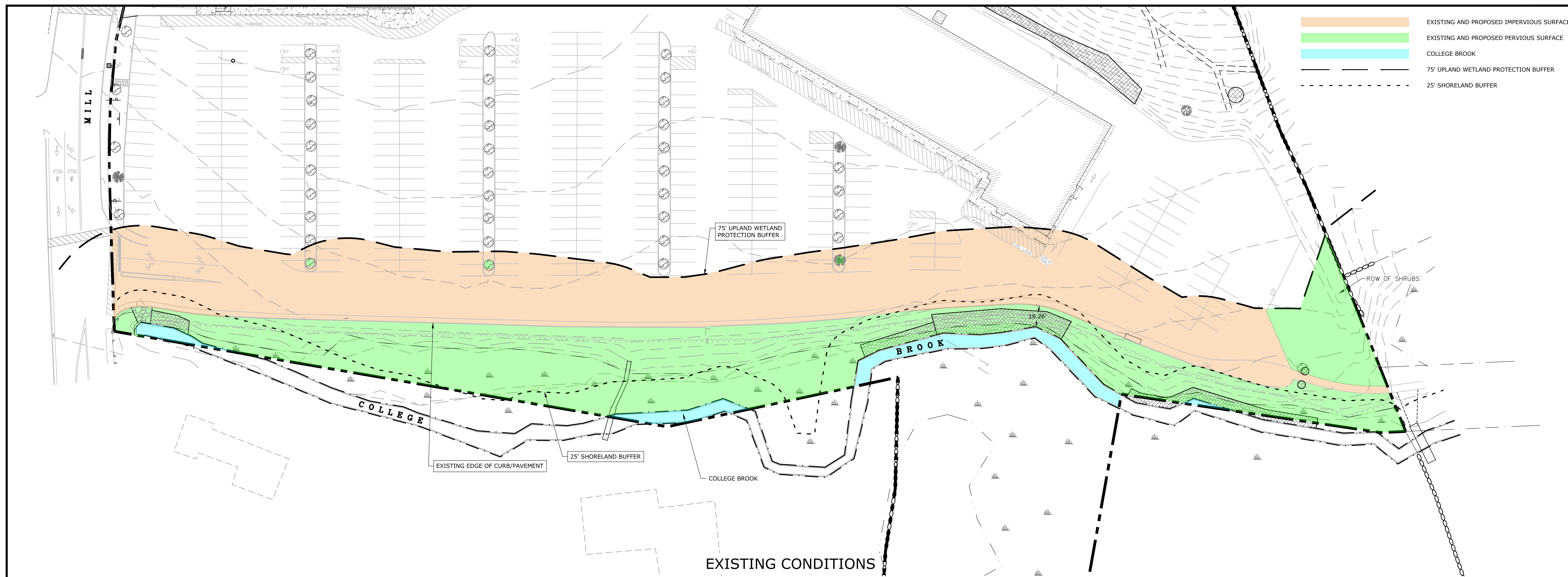
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DATE:	5/23/2018
FILE:	M1529-002_C-IMPACT.dwg
DRAWN BY:	EGD
CHECKED BY:	JMP
APPROVED BY:	BLM

**BUFFER COVERAGE PLAN**

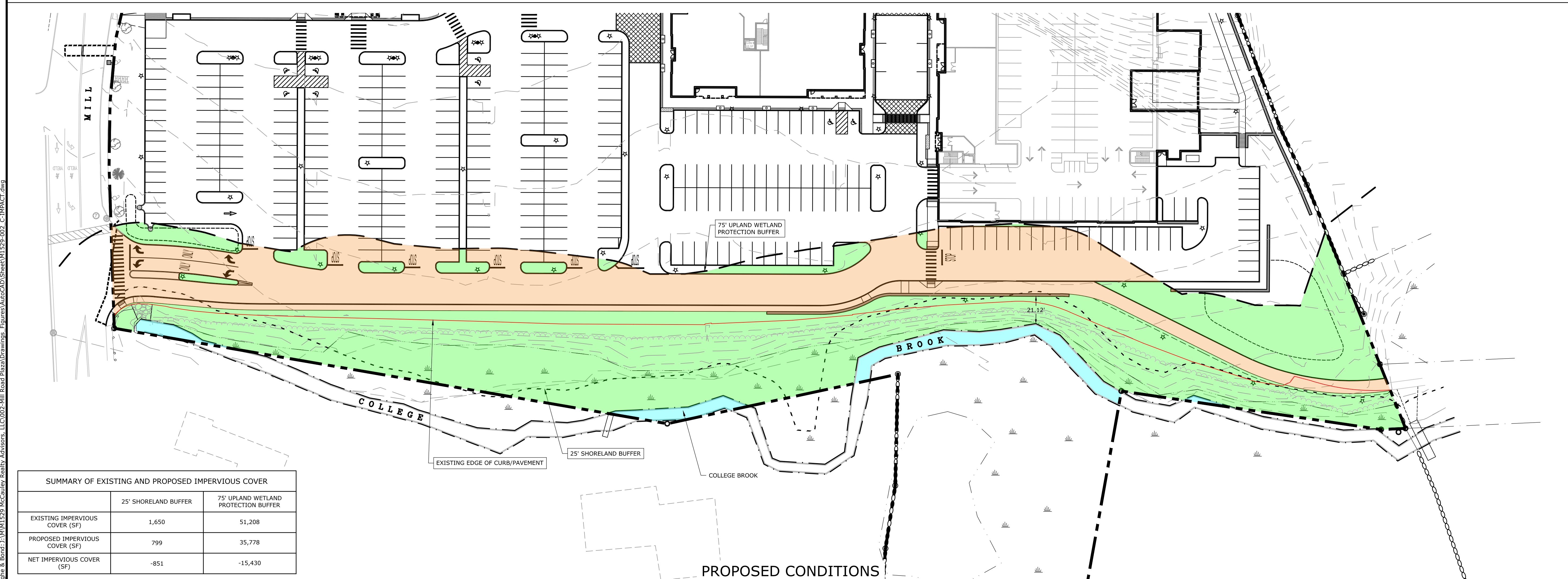
SCALE: AS SHOWN

C-701

- EXISTING AND PROPOSED IMPERVIOUS SURFACE
- EXISTING AND PROPOSED PERVIOUS SURFACE
- COLLEGE BROOK
- 75' UPLAND WETLAND PROTECTION BUFFER
- 25' SHORELAND BUFFER



EXISTING CONDITIONS



PROPOSED CONDITIONS

SUMMARY OF EXISTING AND PROPOSED IMPERVIOUS COVER		
	25' SHORELAND BUFFER	75' UPLAND WETLAND PROTECTION BUFFER
EXISTING IMPERVIOUS COVER (SF)	1,650	51,208
PROPOSED IMPERVIOUS COVER (SF)	799	35,778
NET IMPERVIOUS COVER (SF)	-851	-15,430

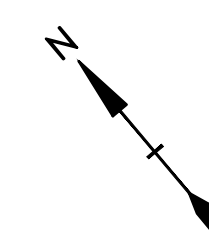




Harriman Project No. 16117



**PERMIT DRAWINGS**  
NOT FOR CONSTRUCTION



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

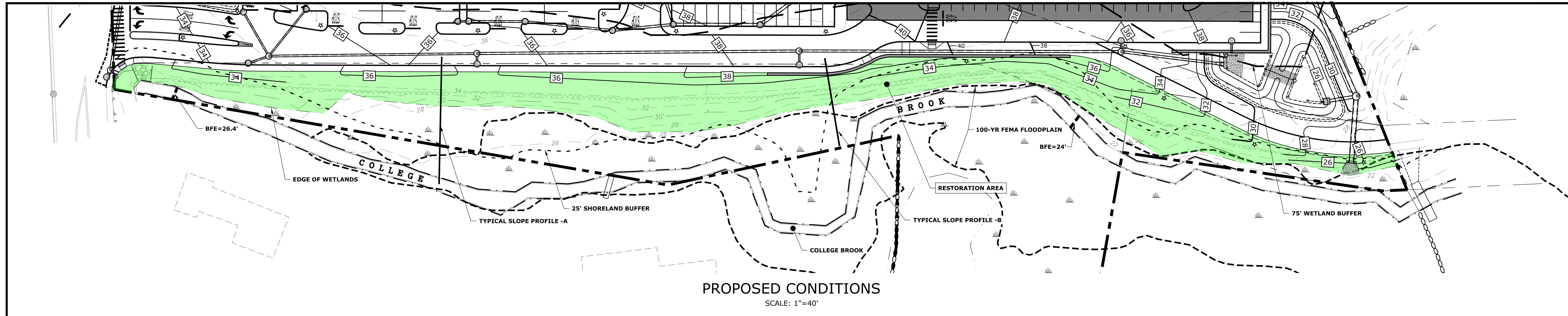
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PROJECT NO:	M1529-002
DATE:	3/10/2021
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DRAWN BY:	EGD
CHECKED BY:	JMP
APPROVED BY:	BLM

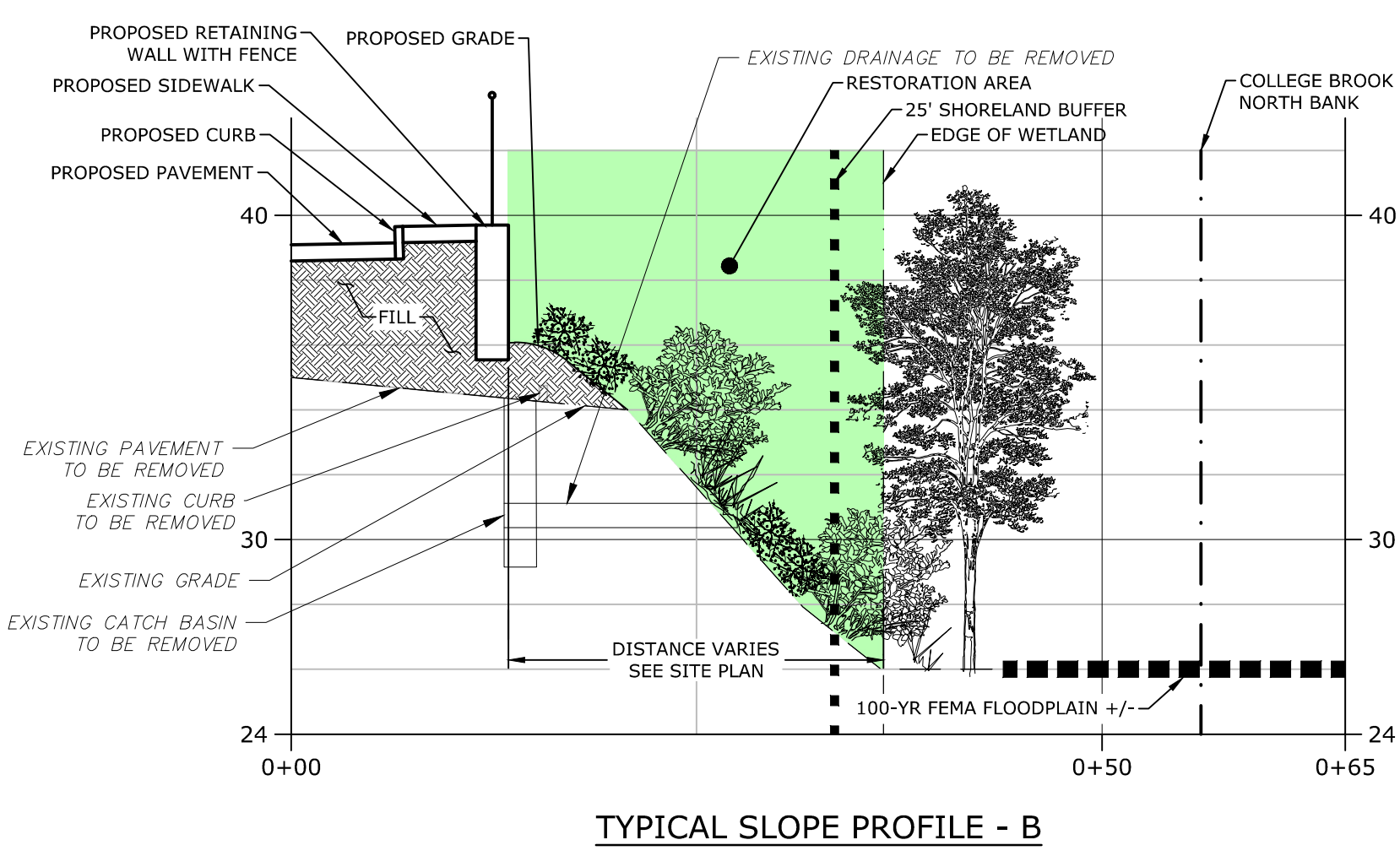
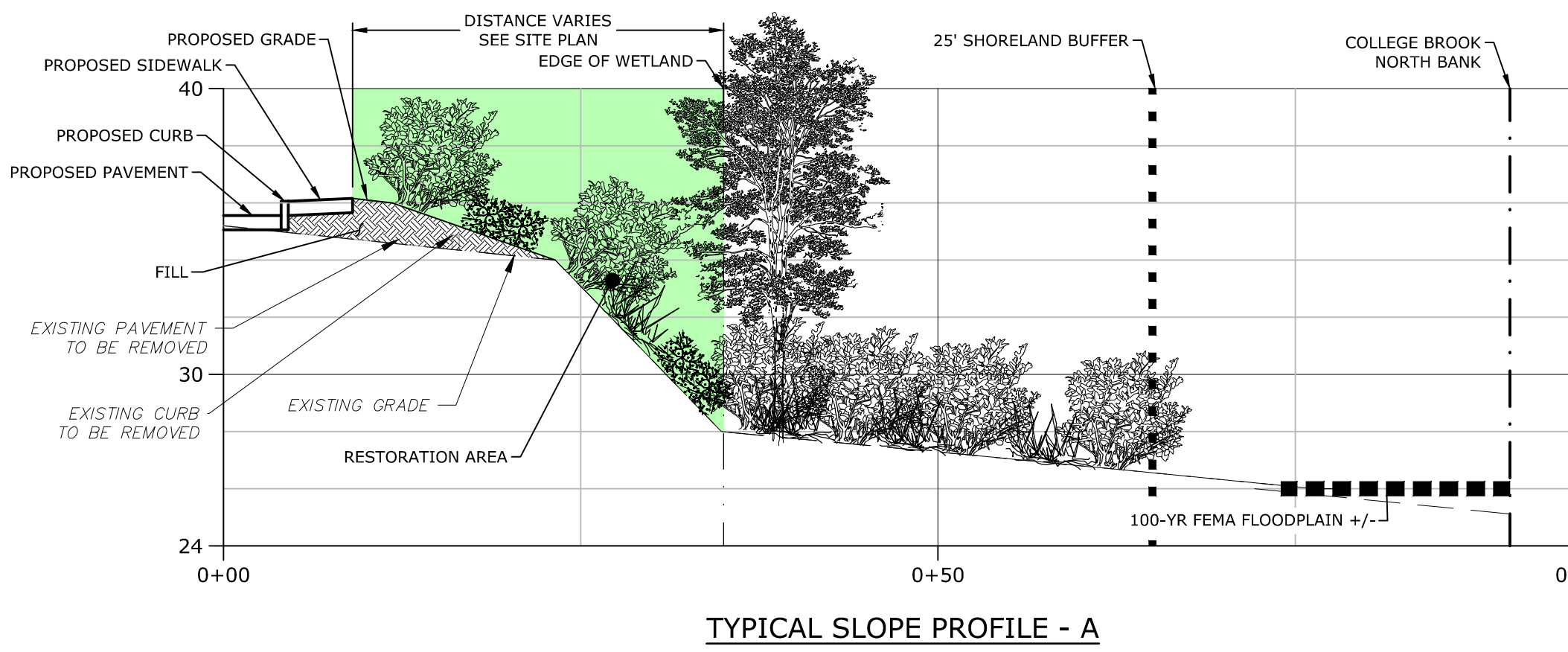
**RESTORATION PLAN**

SCALE: AS SHOWN

**C-702**

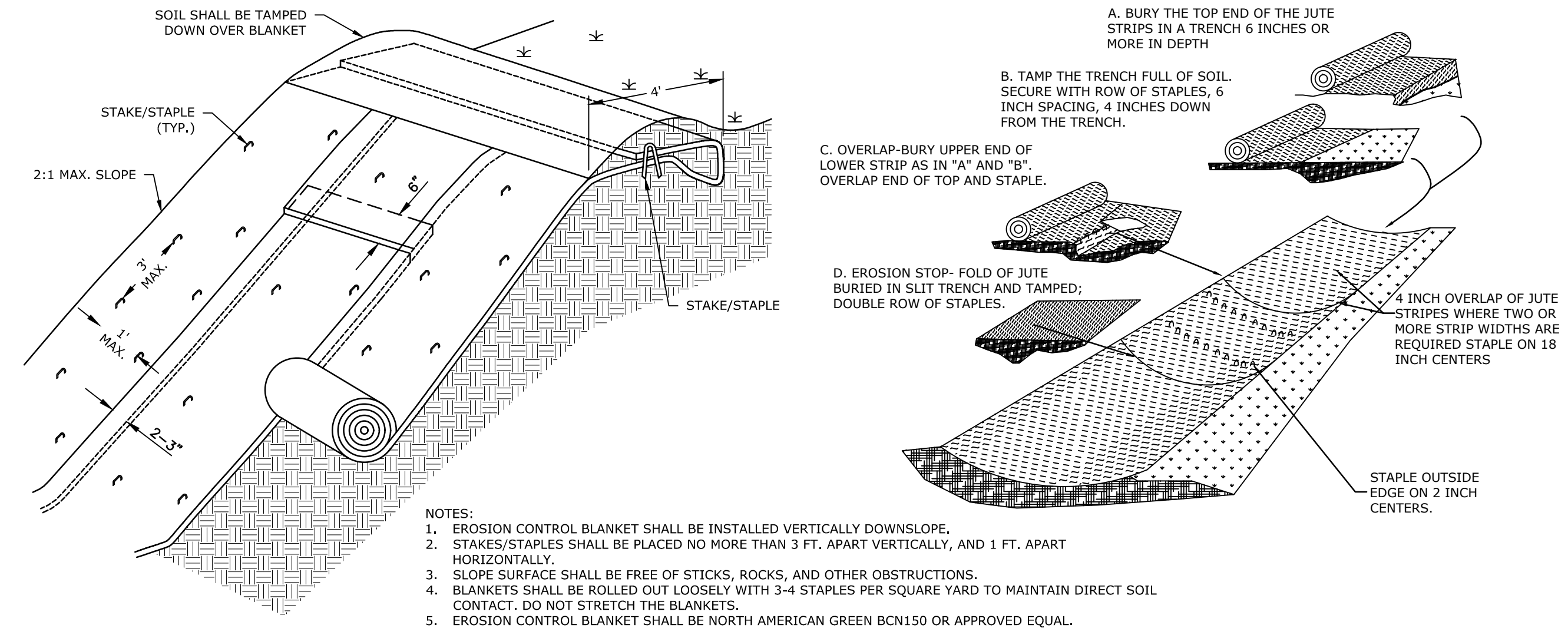
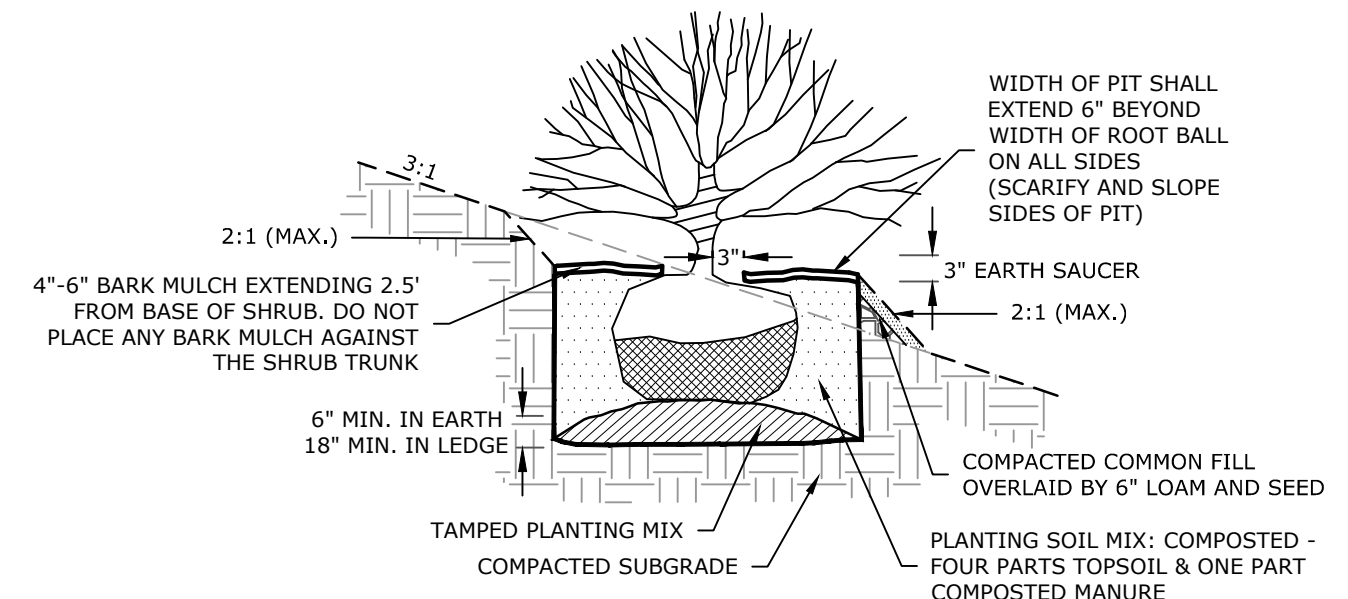


- RESTORATION PLAN SEQUENCE OF ACTIVITIES:**
- PRIOR TO RESTORATION:**
    - FLAG WETLAND BETWEEN THE SLOPE AND COLLEGE BROOK ALONG THE RESTORATION AREA.
    - CONDUCT AN INVENTORY OF INVASIVE SPECIES TO BE MANAGED.
    - CONSULT WITH A LICENSED PESTICIDE APPLICATOR EXPERIENCED IN NATURAL AREAS RESTORATION ON APPROPRIATE HERBICIDES FOR THE CONTROL OF INVASIVE SPECIES AT THE SITE.
    - CONSULT WITH A LICENSED PESTICIDE APPLICATOR REGARDING THE NEED FOR A SPECIAL PERMIT FROM THE NH DIVISION OF PESTICIDE CONTROL. OBTAIN PERMITS ANNUALLY AS NEEDED FOR EACH YEAR OF TREATMENT.
  - YEAR 1**
    - MARK IN THE FIELD NATIVE SPECIES TO BE SAVED AND/OR INVASIVE SPECIES TO BE REMOVED. REVIEW WITH PESTICIDE CONTRACTOR.
    - DETERMINE THE SEQUENCE OF WORK WITH THE LICENSED PESTICIDE APPLICATOR BASED ON SITE CONDITIONS AND TIMING. ALTERNATIVE 1 IS LIKELY TO RESULT IN LESS DAMAGE TO NATIVE SPECIES, USE LESS HERBICIDE, HAVE LESS DANGER OF DRIFT, AND BE MORE ACCEPTABLE IN A PUBLIC AREA. ALTERNATIVE 2 IS LIKELY TO ACHIEVE GREATER INITIAL CONTROL DUE TO GREATER LEAF AREA FOR HERBICIDE UPTAKE.
    - ALTERNATIVE 1 (PREFERRED):**
      - MOW INVASIVE VEGETATION WITH A BOOM MOUNTED MOWER IN JUNE. LARGER STEMS AND VINES MAY BE TREATED USING CUT-STUMP DIRECT APPLICATION METHODS AT THIS TIME.
      - APPLY A LATE SUMMER FOLIAR HERBICIDE TREATMENT TO INVASIVE RESPROUTS IN AUGUST OR SEPTEMBER USING MATERIALS WITH LOW SOIL ACTIVITY.
    - ALTERNATIVE 2:**
      - APPLY A LATE SUMMER FOLIAR HERBICIDE TREATMENT (SEPTEMBER) TO MINIMIZE THE BROWNOUT PERIOD. USE MATERIALS WITH LOW SOIL ACTIVITY. LARGER STEMS AND VINES MAY BE TREATED USING CUT-STUMP METHODS.
      - MOW TREATED INVASIVE VEGETATION WITH A BOOM MOUNTED MOWER DURING THE DORMANT SEASON.
  - YEAR 2**
    - CONDUCT SEEDING APRIL 20-MAY 30.
    - EVALUATE HERBICIDE TREATMENT EFFECTIVENESS BY MAY 30.
    - IF >75% INVASIVE SPECIES CONTROL IS ACHIEVED, PLANTINGS MAY PROCEED PROVIDED ANY LABELED HERBICIDE WAITING PERIOD FOR PLANTINGS HAS BEEN COMPLETED.
    - PLANT SHRUBS IN PREDOMINANTLY MONOSPECIFIC CLUSTERS AND DISTRIBUTE IN A NATURALISTIC MANNER.
    - INSPECT PLANTINGS EVERY ONE TO TWO WEEKS AND WATER AS NEEDED.
    - APPLY SPOT TREATMENTS OF HERBICIDE WITH LOW SOIL ACTIVITY IN LATE SUMMER (AUGUST-SEPTEMBER) BEING CAREFUL TO AVOID DAMAGE TO PLANTINGS.
  - YEARS 3-5**
    - MONITOR PLANTINGS AND SEEDING AND SPOT PLANT/SEED AS NEEDED TO REPLACE PLANTS OR FILL IN SEEDED GAPS AS NEEDED
    - APPLY SPOT TREATMENT OF HERBICIDE WITH LOW SOIL ACTIVITY TO INVASIVE SPECIES BEING CAREFUL TO AVOID PLANTINGS.



SCIENTIFIC NAME*	COMMON NAME*	PLANTING TYPE	PLANTING/SEEDING RATES	QUANTITY	NOTES
VARIOUS-- SEE NEWP.COM	NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR DRY SITES	SEED MIX (NEW ENGLAND WETLAND PLANTS)	20LB/AC	13 LB	BLEND THE TWO SEED MIXES. HYDROSEED WITH MULCH AND TACKIFIER OR HAND SEED WITH LIGHT MULCH OF WEED-FREE STRAW APRIL 20-MAY 30 (TOUCH-UPS MAY BE DONE AUGUST 15-SEPT 10.)
VARIOUS-- SEE NEWP.COM	NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX	SEED MIX (NEW ENGLAND WETLAND PLANTS)	25LB/AC	16 LB	
CORYLUS AMERICANA	AMERICAN HAZELNUT	3'-4" TALL, CONTAINER	5' OC IN CLUSTERS OF 3-5	85 Plants	MULCH 4"-6" DEEP IN A 2.5' RADIUS AROUND EACH SHRUB. SEE PLANTING DETAIL
HAMAMELIS VIRGINIANA	WITCH HAZEL	3'-4" TALL, CONTAINER	5' OC IN CLUSTERS OF 3-5	50 Plants	
BLACK CHOKEBERRY	PHOTINIA MELANOCARPA	3'-4" TALL, CONTAINER	5' OC IN CLUSTERS OF 3-5	85 Plants	
CORNUS RACEMOSA	GRAY DOGWOOD	3'-4" TALL, CONTAINER	5' OC IN CLUSTERS OF 3-5	125 Plants	

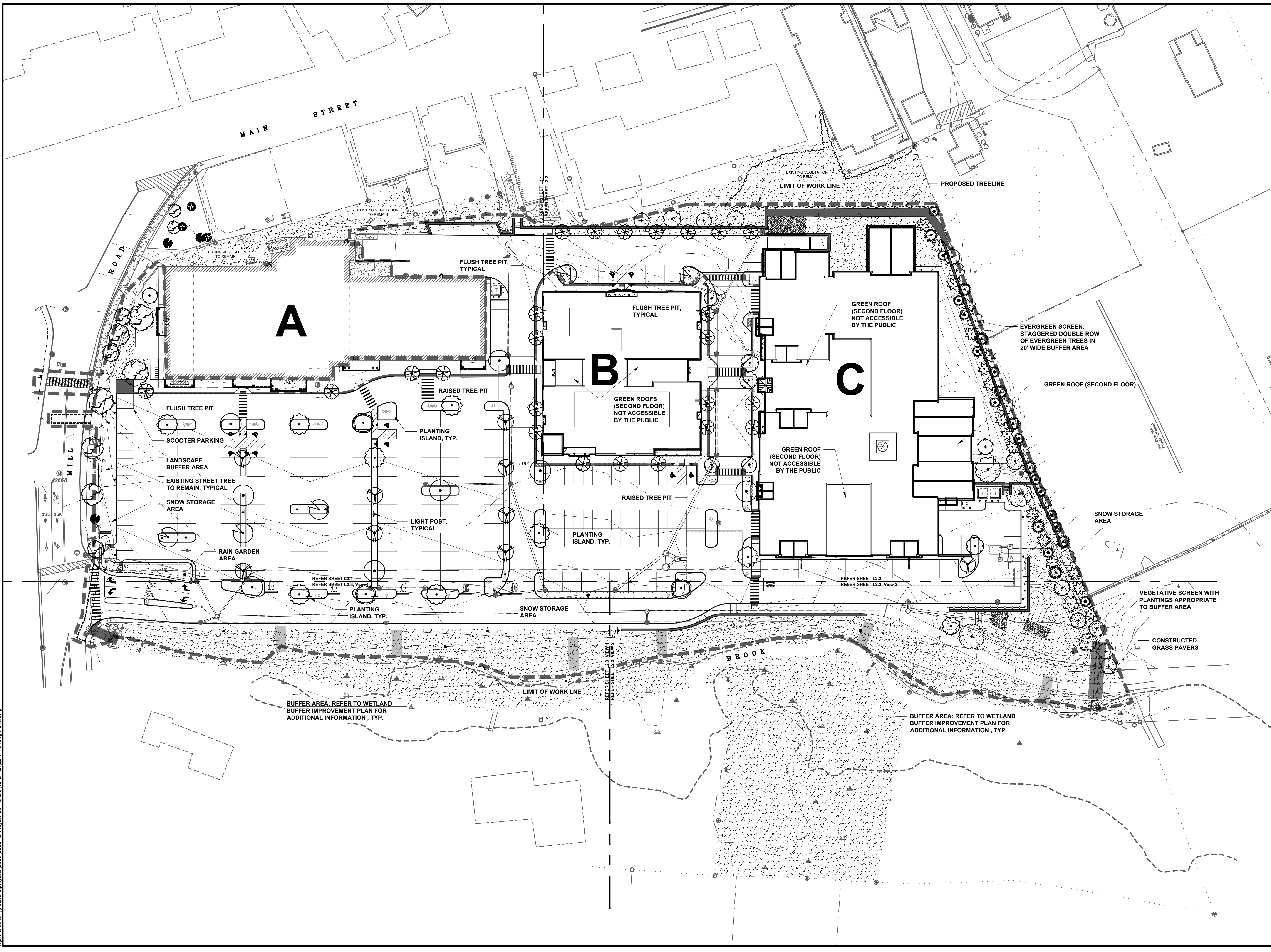
\*SEED MIXES AND PLANT MATERIALS ARE AVAILABLE FROM NEW ENGLAND WETLAND PLANTS  
\*EQUIVALENT SUBSTITUTIONS MAY BE MADE WITH APPROVAL BY A CERTIFIED WETLAND SCIENTIST OR LANDSCAPE ARCHITECT  
\*USE ONLY NATIVE, NON-HORTICULTURAL PLANTS



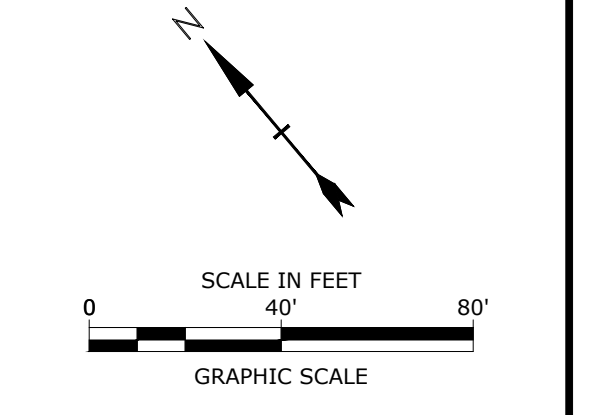
- NOTES:**
- EROSION CONTROL BLANKET SHALL BE INSTALLED VERTICALLY DOWNSLOPE.
  - STAKES/STAPLES SHALL BE PLACED NO MORE THAN 3 FT. APART VERTICALLY, AND 1 FT. APART HORIZONTALLY.
  - SLOPE SURFACE SHALL BE FREE OF STICKS, ROCKS, AND OTHER OBSTRUCTIONS.
  - BLANKETS SHALL BE ROLLED OUT LOOSELY WITH 3-4 STAPLES PER SQUARE YARD TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.
  - EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN BCN150 OR APPROVED EQUAL.

Date Saved: 3/10/2021 11:48:09 AM By: EGD  
 Tighe & Bond 3:11M1529-McCauley Realty Advisors, LLC\002-Mill Road Plaza\Report\_Evaluation\Restoration\M1529-002\_C-RESTORE.dwg





**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

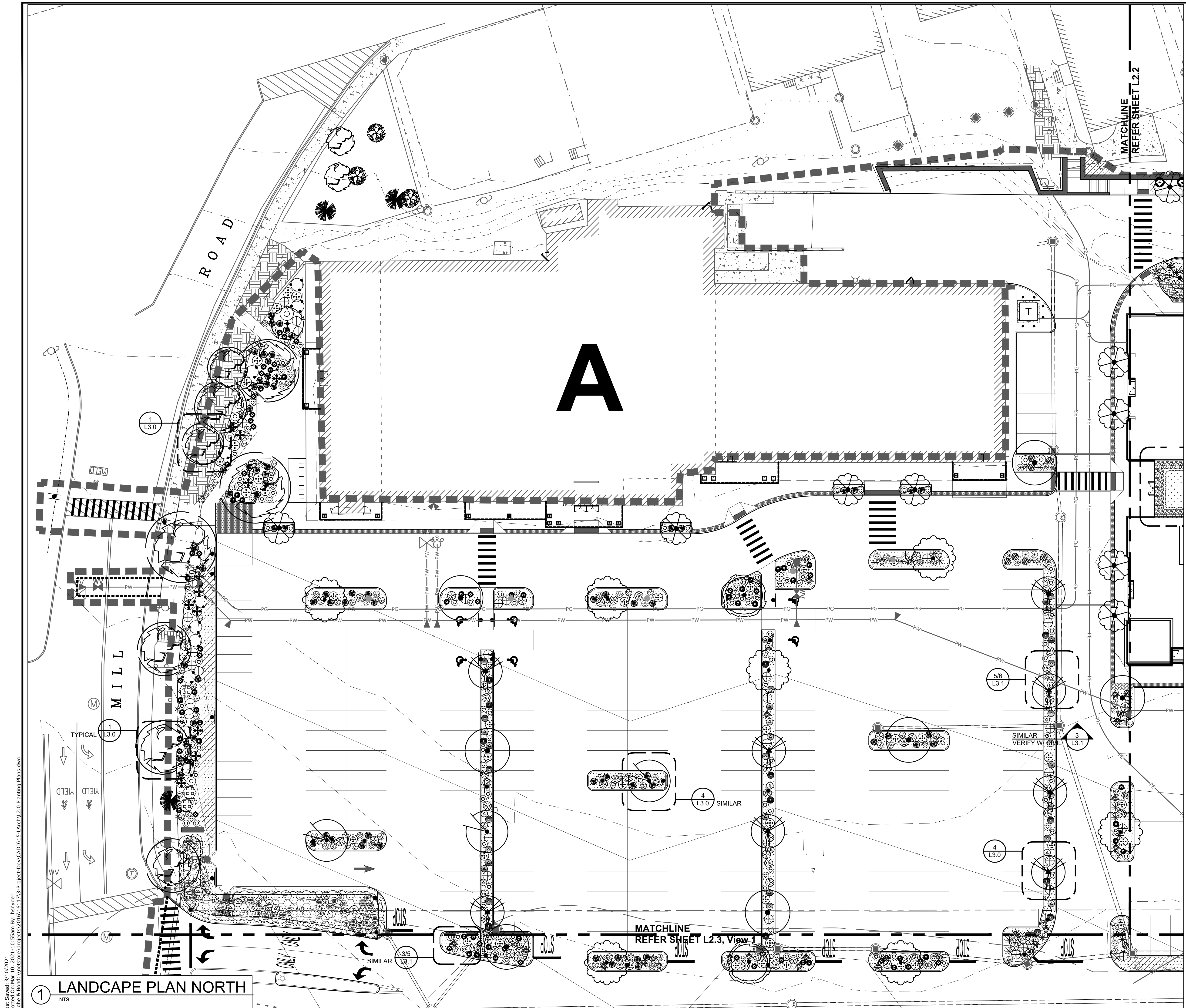
7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

3/10/2021	Response to Comments	
1/20/2021	Planning Board Comments	
6/2/2020	Planning Board Comments	
5/20/2020	Planning Board Comments	
1/2/2020	General Revisions	
MARK	DATE	DESCRIPTION
PROJECT NO:	M1529-002	
DATE:	05/23/18	
FILE:	L2.0 Planting Plans.dwg	
DRAWN BY:	HAS/TNE	
CHECKED:	JMP	
APPROVED:	BLM	

**LANDSCAPE  
OVERALL PLAN**  
SCALE:  
**L2.0**

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 Tighe & Bond \\netstore\projects\2016\16117\3-project\Dev\CADD\15-LArch\L2.0 Planting Plans.dwg





PLANT LEGEND				
SHADE TREES	SIZE	NOTES	QTY	VERIFY IN FIELD
	Acer rubrum October Glory 2.0' - 2.5' Cal.	Zone: 3	8	
	Acer glabrum Red Maple 50th x 30W	Fall Plant Hazard		
	Acer x freemanii 'Armstrong' 2.0' - 2.5' Cal.	Zone: 3	24	
	Freeman Maple (Fastigate) 40th x 15W			
	Carpinus caroliniana American Hornbeam 2.0' - 2.5' Cal.	Zone: 3a	3	
	Celtis occidentalis Common Hackberry 2.0' - 2.5' Cal.	Zone: 1	5	
	Ginkgo biloba 'Princeton Sentry' 3.0' - 3.5' Cal.	Zone: 3	9	
	Magnolia Tree (Male only) 40th x 20W			
	Nyssa sylvatica var. Marshall 2.0' - 2.5' Cal.	Zone: 3	8	
	Thuja 40th x 20W	Fall Plant Hazard		
FLOWERING TREES				
FLOWERING TREES	SIZE	NOTES	QTY	
	Amelanchier arborea Downy Serviceberry 1.5' - 2.0' Cal.	Zone: 4	9	
	Cercis canadensis Eastern Redbud 1.5' - 2.0' Cal.	Zone: 4	25	
	Malus Snowdrift 1.0' - 2.0' Cal.	Zone: 4	3	
	Snowdrift Crabapple 20th x 20W	Fall Plant Hazard		
ORNAMENTAL TREES				
ORNAMENTAL TREES	SIZE	NOTES	QTY	
	Betula nigra 'Heritage' 12' H B & B	Zone: 3b	3	
	River Birch 40th x 30W	Fall Plant Hazard		
	Stewartia ovata Mountain Stewartia 1.0' - 1.5' Cal.	Zone: 5	10	
	Stewartia 25th x 25W			
CONIFER TREES				
CONIFER TREES	SIZE	NOTES	QTY	
	Abies balsamea 'Columnaris' 10' - 12'	Zone: 3	5	
	Balsam Fir var. Columnaris 35th x 15W			
	Juniperus virginiana 'Burkii' 10' - 12'	Zone: 2	14	
	Red Cedar var. Burkii 15th x 5W	Fall Plant Hazard		
	Thuja occidentalis Eastern Arborvitae 8' - 10'	Zone: 2	19	
	Picea abies 'Cupressina' 12' - 14'	Zone: 3	9	
	Columbian Norway Spruce 20th x 10' W			
DECIDUOUS SHRUBS				
DECIDUOUS SHRUBS	SIZE	NOTES	QTY	
	Cephalanthus occidentalis 2 Gallon	Zone: 5	8	
	Butoribush 4th x 3W	Zone: 5	8	
	Comptonia peregrina Sweetfern 2 Gallon	Zone: 3	10	
	Cornus sericea Redosier Dogwood 2 Gallon	Zone: 3	17	
	Ceanothus americanus Coastal Sweet Pepperbush 5th x 3W	Fall Plant Hazard		
	Ceanothus 4th x 4W	Zone: 3	18	
	Dirca palustris Leatherstock 2 Gallon	Zone: 3	2	
	Fothergilla gardenii Dwarf Fothergilla 4th x 3W	Zone: 5	69	
	Ilex verticillata Winterberry 3th x 4W	Zone: 3	15	
	Liriodendron 8th x 5W	Zone: 3	39	
	Viburnum acerifolium Spice bush 4th x 4W	Zone: 3	39	
	Viburnum trilobum Cranberry bush 2 Gallon	Zone: 2	3	
EVERGREEN SHRUBS				
EVERGREEN SHRUBS	SIZE	NOTES	QTY	
	Juniperus communis Common Juniper 3 Gallon	Zone: 2	42	
	Kalmia latifolia Mountain Laurel 3 Gallon	Zone: 3	49	
	Kalmia 5th x 3W			
GROUNDCOVERS				
GROUNDCOVERS	SIZE	NOTES	QTY	
	Aristolochia reticulata 1 Gallon	Zone: 2	214	
	Coreopsis lanceolata Tickseed 1 Gallon	Zone: 4	129	
	Vaccinium angustifolium Low Sweet Blueberry 1 Gallon	Zone: 2	48	
	Vaccinium 2th x 4W			
PERENNIALS				
PERENNIALS	SIZE	NOTES	QTY	
	Astilbe var. 'Snowdrift' #2 Container	Zone: 4	32	
	Snowdrift Astilbe 1.5TH x 1.25W			
	Coreopsis grandiflora Large Flowered Tickseed #2 Container	Zone: 4a	109	
	Dianthus Bleeding Heart #2 Container	Zone: 3	11	
	Echinacea magna Purple Cone Flower #2 Container	Zone: 4a	57	
	Helianthus scaberrimus Tall Mountain Helianthus 1.25th x 1.25w	Zone: 5	14	
	Helianthus 1.25th x 1.25w			
	Hemerocallis illocephalodes Orange Daylily #2 Container	Zone: 4	34	
	Hemerocallis fulva Orange Daylily 2.5th x 1.75w	Zone: 3	60	
	Hyacinthoides hispanica Spanish Bluebell #2 Container	Zone: 3	8	
	Liatris spicata Liatris #2 Container	Zone: 3	20	
	Liatris 3th x 1.25w			
	Polygatum odoratum Solomon's Seal #2 Container	Zone: 3	15	
	Pulmonaria 'Baby Blue' Lungwort #2 Container	Zone: 4	15	
	Pulmonaria 9th x 1w			
	Ruscus aculeatus Black-eyed Susan #2 Container	Zone: 4a	86	
	Ruscus 2.5th x 1.25w			
VINE				
VINE	SIZE	NOTES	QTY	
	Parthenocissus tricuspidata Boston Ivy #2 Container	Zone: 4	20	
	Parthenocissus 10th x 10w			
SEED MIX				
SEED MIX	SIZE	NOTES	QTY	
	Conservation / Wildlife Seed Mix (Low-maintenance areas) Source: N.E. Wetland Plants	21,200 S.F.		
LANDSCAPE MATERIALS				
LANDSCAPE MATERIALS	SIZE	NOTES	QTY	
	Bark Mulch 3" depth	19,450 S.F.		
	Landscape Border	all planting areas	645 L.N. FT.	
	Landscape edging material			
PLANT LEGEND: STORMWATER				
PERENNIAL	SIZE	NOTES	QTY	
	Aquilegia canadensis Red Columbine	Zone: 3	50	
	Eutrochium purpureum Sweet Joe-Pye Weed var. 'Lute Jewel'	Zone: 3	25	
	Monarda fistulosa Beebalm	Zone: 3	40	
	Penstemon digitalis Penstemon	Zone: 3	45	
	Penstemon			
GRASSES				
GRASSES	SIZE	NOTES	QTY	
	Schizachyrium scoparium Little Bluestem	Zone: 3	15	
	Schizachyrium			
GROUNDCOVERS				
GROUNDCOVERS	SIZE	NOTES	QTY	
	Cornus canadensis Bunchberry	Zone: 2	25	
	Vaccinium angustifolium Low Sweet Blueberry	Zone: 2	25	
	Vaccinium			
SPECIALTY SEED MIX				
SPECIALTY SEED MIX	SIZE	NOTES	QTY	
	Wetland Seed Mix (Restoration) Source: N.E. Wetland Plants	8,975 S.F.		
	Erosion Control / Restoration (Detention basins) Source: N.E. Wetland Plants	4,850 S.F.		

**Tighe & Bond**  
Engineers | Environmental Specialists

**HARRIMAN**  
AUBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**

SCALE IN FEET  
0 20 40  
GRAPHIC SCALE

**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
	3/10/2021	Response to Comments
	1/20/2021	Planning Board Comments
	6/2/2020	Planning Board Comments
	5/20/2020	Planning Board Comments
	1/2/2020	General Revisions

PROJECT NO: M1529-002  
DATE: 05/23/18  
FILE: L2.0 Planting Plans.dwg  
DRAWN BY: HAS/TNE  
CHECKED: JMP  
APPROVED: BLM

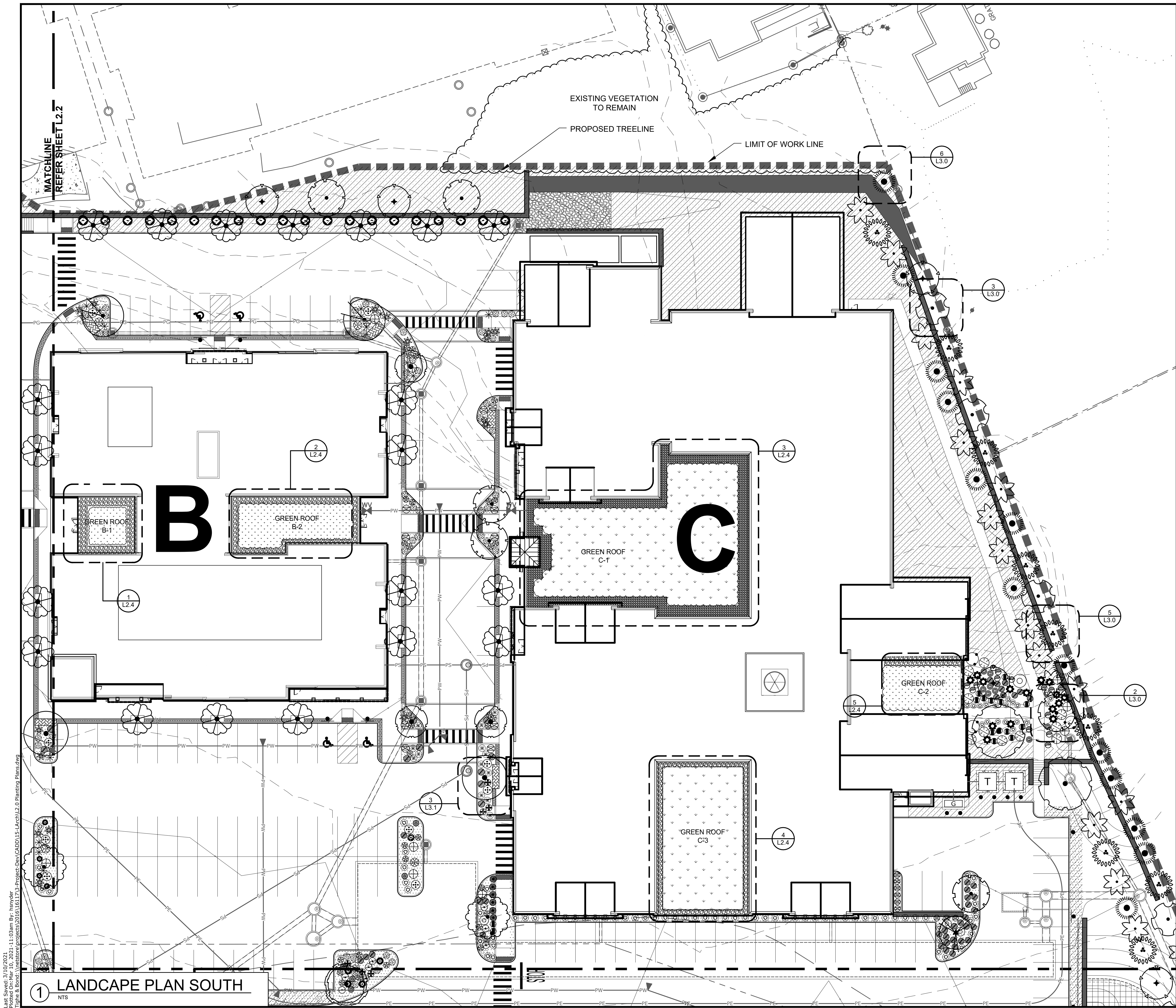
**PLANTING PLAN**

SCALE: **L2.1**

Date Saved: 3/10/2021  
 Plotted On: Mar 10, 2021 - 10:55am By: hsnyder  
 Tighe & Bond \\weston\projects\2016\16117\3-Project-Docs\CADD\L2.0 Planting Plans.dwg

**LANDSCAPE PLAN NORTH**  
NTS





PLANT LEGEND			
SHADE TREES	SIZE	NOTES	QTY
Existing Tree to Remain		Preserve and Protect in Place	Verify in Field
Acer rubrum October Glory	2.0' - 2.5' Cal.	Zone: 3	8
October Glory Red Maple	50ft x 30ft	Fall Plant Hazard	
Acer x freemanii 'Armstrong'	2.0' - 2.5' Cal.	Zone: 3	24
Freeman Maple (Fastgate)	40ft x 15ft		
Carpinus caroliniana American Hornbeam	2.0' - 2.5' Cal.	Zone: 3a	3
	25ft x 25ft	Fall Plant Hazard	
Celtis occidentalis Common Hackberry	2.0' - 2.5' Cal.	Zone: 1	5
	40ft x 30ft	Fall Plant Hazard	
Ginkgo biloba 'Princeton Sentry'	3.0' - 3.5' Cal.	Zone: 3	9
Mastden Tree (Male only)	45ft x 25ft		
Nyssa sylvatica var. Marshall Blackgum	2.0' - 2.5' Cal.	Zone: 3	8
	40ft x 25ft	Fall Plant Hazard	
FLOWERING TREES	SIZE	NOTES	QTY
Amelanchier arborea Downey Serviceberry	1.5' - 2.0' Cal.	Zone: 4	9
	20ft x 20ft		
Cercis canadensis Eastern Redbud	1.5' - 2.0' Cal.	Zone: 4	25
	20ft x 20ft	Fall Plant Hazard	
Malus Snowdrift Snowdrift Crabapple	1.5' - 2.0' Cal.	Zone: 4	3
	20ft x 20ft	Fall Plant Hazard	
ORNAMENTAL TREES	SIZE	NOTES	QTY
Betula nigra 'Heritage' River Birch	12' Ht B & D 40ft x 30ft	Zone: 3a Fall Plant Hazard	3
Stewartia ovata Mountain Stewartia	1.0' - 1.5' Cal. 25ft x 25ft	Zone: 5	10
CONIFER TREES	SIZE	NOTES	QTY
Abies balsamea 'Columnaris' Balsam Fir var. 'Columnaris'	10' - 12' 35ft x 15ft	Zone: 3	5
Juniperus virginiana 'Burkii' Red Cedar var. 'Burkii'	10' - 12' 15ft x 5ft	Zone: 2	14
Thuja occidentalis Eastern Arborvitae	8' - 10' 30ft x 10ft	Zone: 2	19
Picea abies 'Cupressina' Common Norway Spruce	12' - 14' 25ft x 10ft	Zone: 3	9
DECIDUOUS SHRUBS	SIZE	NOTES	QTY
Cephalanthus occidentalis Butterflybush	2 Gallon	Zone: 5	8
Comptonia peregrina Sweetfern	2 Gallon	Zone: 3	10
Cornus sericea Redosier Dogwood	2 Gallon	Zone: 3	17
Clethra alnifolia Coastal Sweet Pepperbush	2 Gallon	Zone: 3	18
Dirca palustris Leatherwood	2 Gallon	Zone: 3	2
Fatmagilla gardenii Dwarf Forsythia	2 Gallon	Zone: 5	69
Ilex verticillata Winterberry	2 Gallon	Zone: 3	15
Lindera benzoin Spice Bush	2 Gallon	Zone: 3	39
Viburnum trilobum Cremyer Bush	2 Gallon	Zone: 2	3
EVERGREEN SHRUBS	SIZE	NOTES	QTY
Juniperus communis Common Juniper	3 Gallon	Zone: 2	42
Kalmia latifolia Mountain Laurel	3 Gallon	Zone: 3	49
GROUNDCOVERS	SIZE	NOTES	QTY
Arcostaphylos uva-ursi Kinnikinnick	1 Gallon	Zone: 2	214
Carex sp. lanceoleaf Tickseed	1 Gallon	Zone: 4	129
Vaccinium angustifolium Low Sweet Blueberry	1 Gallon	Zone: 2	48
PERENNIALS	SIZE	NOTES	QTY
Astilbe var. 'Snowdrift' Snowdrift Astilbe	#2 Container 1.75ft x 1.25ft	Zone: 4	32
Coneopsis grandiflora Large Flowered Tickseed	#2 Container 2.5ft x 1.25ft	Zone: 4a	109
Dicentra Bleeding Heart	#2 Container 1.25ft x 1.25ft	Zone: 3	11
Echinacea magna Purple Cone Flower	#2 Container 2.5ft x 2ft	Zone: 4a	57
Helianthus scaberrimus Tall Mountain Helianthus	#2 Container 1.25ft x 1.25ft	Zone: 5	14
Hemerocallis illoasphodelus Lemon Lily	#2 Container 1.25ft x 1.25ft	Zone: 4	34
Hemerocallis fulva Orange Daylily	#2 Container 2.25ft x 2.25ft	Zone: 3	60
Hyacinthoides hispanica Spanish Bluebell	#2 Container 1.25ft x 1ft	Zone: 3	8
Liatris spicata Liatris	#2 Container 2ft x 1.25ft	Zone: 3	20
Polygonatum odoratum Solomon's Seal	#2 Container 3ft x 1ft	Zone: 3	15
Pulmonaria 'Baby Blue' Lungwort	#2 Container 2ft x 1ft	Zone: 4	15
Rudbeckia triloba Black-eyed Susan	#2 Container 2.5ft x 1.25ft	Zone: 4a	86
VINE	SIZE	NOTES	QTY
Parthenocissus tricuspidata Boston Ivy	#2 Container 15ft x 10ft	Zone: 4	20
SEED MIX	SIZE	NOTES	QTY
Conservation / Wildlife Seed Mix (Low-maintenance areas)			
Source: N.E. Wetland Plants			21,200 S.F.
LANDSCAPE MATERIALS	SIZE	NOTES	QTY
Bark Mulch	3" depth	19,450 S.F.	
Shredded Organic Bark Mulch		all planting areas	
Landscape Border		645 LN. FT.	
Landscape edging material			
PLANT LEGEND: STORMWATER	SIZE	NOTES	QTY
PERENNIAL	SIZE	NOTES	QTY
Aquilegia canadensis Red Columbine	SP#3	Zone: 3 Rain garden area	50
Eutrochium purpureum Sweet Joe Pye Weed var. 'Little Joe'	SP#3	Zone: 3 Rain garden area	25
Manarda fistulosa Beacham	SP#3	Zone: 3 Rain garden area	40
Penstemon digitalis Froglove	SP#3	Zone: 3 Rain garden area	45
GRASSES	SIZE	NOTES	QTY
Schizachyrium scoparium Little bluestem	SP#3	Zone: 3 Rain garden area	15
GROUNDCOVERS	SIZE	NOTES	QTY
Cornus canadensis Bunchberry	1 Gallon	Zone: 2 Fall plant hazard	25
Vaccinium angustifolium Low Sweet Blueberry	SP#3	Zone: 2 Rain garden area	25
SPECIALTY SEED MIX	SIZE	NOTES	QTY
Wetland Seed Mix (Restoration)			6,975 S.F.
Source: N.E. Wetland Plants			
Erosion Control / Restoration (Detention basins)			4,800 S.F.
Source: N.E. Wetland Plants			

**Tighe & Bond**  
Engineers | Environmental Specialists

**HARRIMAN**  
AUBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117

**PERMIT DRAWINGS**  
NOT FOR CONSTRUCTION

SCALE IN FEET  
0 20' 40'  
GRAPHIC SCALE

**Mill Plaza**  
**Redevelopment**

Colonial Durham Associates, LP

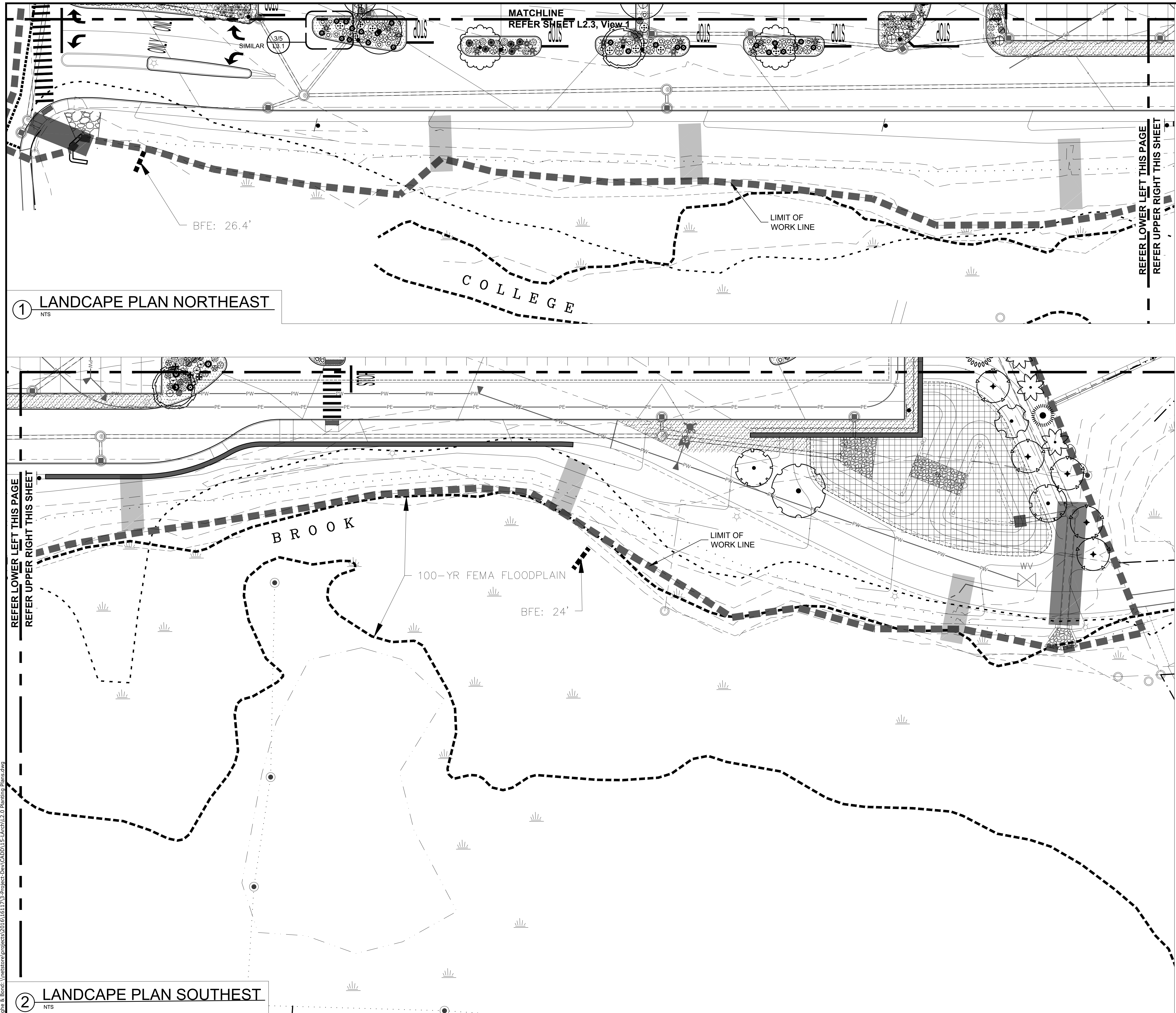
7 Mill Road, Unit L  
Durham, New Hampshire 03824

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PROJECT NO:	M1529-002	
DATE:	05/23/18	
FILE:	L2.0 Planting Plans.dwg	
DRAWN BY:	HAS/TNE	
CHECKED:	JMP	
APPROVED:	BLM	
PLANTING PLAN		
SCALE:	<b>L2.2</b>	

1. Not all plant material species and quantities shown will be used. Final plant material specifications dependent on conformance to, and approval by, local and state regulations and agencies.  
2. Plant material specified shall conform to ANLA American Standard for Nursery Stock, ANSI Z60.1 current edition.  
3. Height and width noted for each plant species represents the anticipated plant size at maturity given known and anticipated site conditions, and without pruning and other maintenance operations.  
4. No permanent irrigation system is proposed. Contractor shall be responsible for watering of plant material till established and for term of maintenance period.

Last Saved: 3/10/2021  
 Tighe & Bond: \restoration\projects\2016\16117\3-Project-Dev\CADD\L2.0-Planting Plans.dwg  
 Date: 3/10/2021 11:03am By: hwyler





**PLANT LEGEND**

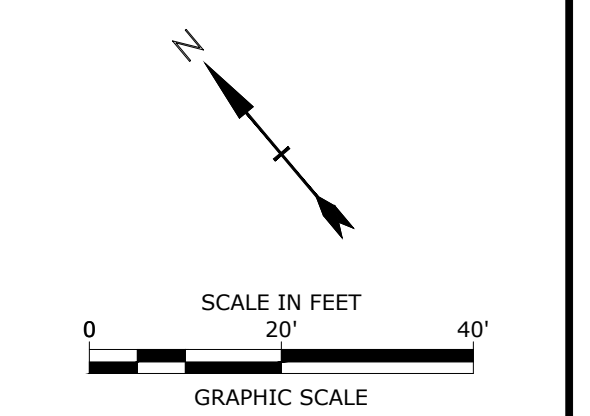
SYMBOL	SHADE TREES	SIZE	NOTES	QTY
⊙	Shade Tree to Remain		Preserve and Protect in Place	Verify in Field
⊙	Acer rubrum October Glory	2.0' - 2.5' Cal.	Zone 3	8
⊙	October Glory Red Maple	50H x 30W	Fall Plant Hazard	
⊙	Acer x freemanii 'Armstrong'	2.0' - 2.5' Cal.	Zone 3	24
⊙	Freeman Maple (Fastgate)	40H x 15W		
⊙	Carpinus caroliniana	2.0' - 2.5' Cal.	Zone 3a	3
⊙	American Hornbeam	25H x 20W	Fall Plant Hazard	
⊙	Celtis occidentalis	2.0' - 2.5' Cal.	Zone 1	5
⊙	Common Hackberry	40H x 30W	Fall Plant Hazard	
⊙	Ginkgo biloba 'Princeton Sentry'	3.0' - 3.5' Cal.	Zone 3	9
⊙	Maderian Tree (Male only)	45H x 20W		
⊙	Nyssa sylvatica var. Marshall	2.0' - 2.5' Cal.	Zone 3	8
⊙	Blackgum	40H x 20W	Fall Plant Hazard	
⊙	FLOWERING TREES	SIZE	NOTES	QTY
⊙	Amanchier arborea	1.5' - 2.0' Cal.	Zone 4	9
⊙	Queen Spheerberry	20H x 20W		
⊙	Cercis canadensis	1.5' - 2.0' Cal.	Zone 4	25
⊙	Eastern Redbud	20H x 30W	Fall Plant Hazard	
⊙	Malus Snowdrift	1.5' - 2.0' Cal.	Zone 4	3
⊙	Snowdrift Crabapple	20H x 20W	Fall Plant Hazard	
⊙	ORNAMENTAL TREES	SIZE	NOTES	QTY
⊙	Betula nigra 'Heritage'	12'H B & B	Zone 3b	3
⊙	River Birch	40H x 30W	Fall Plant Hazard	
⊙	Stewartia ovata	1.0' - 1.5' Cal.	Zone 5	10
⊙	Mountain Stewartia	25H x 25W		
⊙	CONIFER TREES	SIZE	NOTES	QTY
⊙	Abies balsamea 'Columnaris'	10' - 12'	Zone 3	5
⊙	Balsam Fir var. 'Columnaris'	35H x 15W		
⊙	Juniperus virginiana 'Burkii'	10' - 12'	Zone 2	14
⊙	Red Cedar var. 'Sunk'	15H x 5W	Fall Plant Hazard	
⊙	Thuja occidentalis	8' - 10'	Zone 2	19
⊙	Eastern Arborvitae	30H x 10W		
⊙	Picea abies 'Cupressina'	12' - 14'	Zone 3	9
⊙	Columnar Norway Spruce	22H x 12W		
⊙	DECIDUOUS SHRUBS	SIZE	NOTES	QTY
⊙	Cappadocian occidentalis	2 Gallon	Zone 5	8
⊙	Suburban	4H x 3W		
⊙	Comptonia peregrina	2 Gallon	Zone 3	10
⊙	Sweetfern	2H x 3W		
⊙	Cornus sericea	2 Gallon	Zone 3	17
⊙	Redstart Dogwood	5H x 3W	Fall Plant Hazard	
⊙	Clethra alnifolia	2 Gallon	Zone 3	18
⊙	Coastal Sweet Pepperbush	4H x 4W		
⊙	Dirca palustris	2 Gallon	Zone 3	2
⊙	Leatherwood	4H x 3W		
⊙	Fothergilla gardenii	2 Gallon	Zone 5	69
⊙	Dwarf Fothergilla	3H x 4W		
⊙	Ilex verticillata	2 Gallon	Zone 3	15
⊙	Winterberry	8H x 4W		
⊙	Lindera benzoin	2 Gallon	Zone 3	39
⊙	Spice bush	4H x 4W		
⊙	Viburnum trilobum	2 Gallon	Zone 2	3
⊙	Cornelian bush			
⊙	EVERGREEN SHRUBS	SIZE	NOTES	QTY
⊙	Juniperus communis	3 Gallon	Zone 2	42
⊙	Common Juniper	2H x 5W		
⊙	Kalmia latifolia	3 Gallon	Zone 3	49
⊙	Mountain Laurel	5H x 3W		
⊙	GROUNDCOVERS	SIZE	NOTES	QTY
⊙	Actostaphylos uva-ursi	1 Gallon	Zone 2	214
⊙	Rhinoceros	1H x 4W		
⊙	Carex sp.	1 Gallon	Zone 4	129
⊙	Tickseed	2H x 2W		
⊙	Vaccinium angustifolium	1 Gallon	Zone 2	48
⊙	Low Sweet Blueberry	2H x 4W		
⊙	PERENNIALS	SIZE	NOTES	QTY
⊙	Asiatica var. 'Snowdrift'	#2 Container	Zone 4	32
⊙	Snowdrift Asiatica	1.20H x 1.20W		
⊙	Carex grandiflora	#2 Container	Zone 4a	109
⊙	Large Flowered Tickseed	2.5H x 1.25W		
⊙	Dianthus	#2 Container	Zone 3	11
⊙	Bleeding Heart	1.20H x 1.25W		
⊙	Echinacea magna	#2 Container	Zone 4a	57
⊙	Purple Cone Flower	2.5H x 2W		
⊙	Helianthus salicifolius	#2 Container	Zone 5	14
⊙	Tall Mountain Helianthus	1.20H x 1.25W		
⊙	Hemerocallis ilioasphodelus	#2 Container	Zone 4	34
⊙	Lemon Lily	2.5H x 1.75W		
⊙	Hemerocallis fulva	#2 Container	Zone 3	60
⊙	Orange Daylily	2.20H x 2.25W		
⊙	Hyacinthoides hispanica	#2 Container	Zone 3	8
⊙	Spanish Bluebell	1.5H x 1W		
⊙	Liatris spicata	#2 Container	Zone 3	20
⊙	Liatris	3H x 1.20W		
⊙	Polygonatum odoratum	#2 Container	Zone 3	15
⊙	Solomon's Seal	3H x 1W		
⊙	Palmataria 'Baby Blue'	Zone 4	15	
⊙	Lungwort	9H x 1W		
⊙	Rudbeckia trioba	#2 Container	Zone 4a	86
⊙	Black-eyed Susan	2.5H x 1.25W		
⊙	VINE	SIZE	NOTES	QTY
⊙	Parthenocissus tricuspidata	#2 Container	Zone 4	20
⊙	Boston Ivy	15H x 10W		
⊙	SEED MIX	SIZE	NOTES	QTY
⊙	Conservation / Wildlife Seed Mix (Low-maintenance areas)			
⊙	Source: N.E. Wetland Plants	21,200 S.F.		
⊙	LANDSCAPE MATERIALS	SIZE	NOTES	QTY
⊙	Bark Mulch	3" depth	19,450 S.F.	
⊙	Shredded Organic Bark Mulch		all planting areas	
⊙	Landscape Border		645 LIN. FT.	
⊙	Landscape edging material			
⊙	PLANT LEGEND: STORMWATER			
⊙	PERENNIAL	SIZE	NOTES	QTY
⊙	Aquilegia canadensis	SPW3	Zone 3	50
⊙	Red Columbine		Rain garden area	
⊙	Eutrochium purpureum	SPW3	Zone 3	25
⊙	Sweet Joe Pye Weed var. 'Little Joe'		Rain garden area	
⊙	Munarda fistulosa	SPW3	Zone 3	40
⊙	Bluebalm		Rain garden area	
⊙	Parthenocissus digitalis	SPW3	Zone 3	45
⊙	Froggys		Rain garden area	
⊙	GRASSES	SIZE	NOTES	QTY
⊙	Schizachyrium scoparium	SPW3	Zone 3	15
⊙	Little bluestem		Rain garden area	
⊙	GROUNDCOVERS	SIZE	NOTES	QTY
⊙	Cornus canadensis	1 Gallon	Zone 2	25
⊙	Bunchberry		Fall plant hazard	
⊙	Vaccinium angustifolium	SPW3	Zone 2	25
⊙	Lowbush blueberry		Rain garden area	
⊙	SPECIALITY SEED MIX	SIZE	NOTES	QTY
⊙	Wetland Seed Mix (Restoration)		8,975 S.F.	
⊙	Source: N.E. Wetland Plants			
⊙	Erosion Control / Restoration (Detention basins)		4,850 S.F.	
⊙	Source: N.E. Wetland Plants			

1 Not all plant material species and quantities shown will be used. Final plant material specifications dependent on conformance to, and approval by, local and state regulations and agencies.  
2 Plant material specified shall conform to ANLA American Standard for Nursery Stock, ANSI Z60.1 current edition.  
3 Height and width noted for each plant species represents the anticipated plant size at maturity given known and anticipated site conditions, and without pruning and other maintenance operations.  
4 No permanent irrigation system is proposed. Contractor shall be responsible for watering of plant material established and for term of maintenance period.



Harriman Project No. 16117

PERMIT DRAWINGS  
NOT FOR CONSTRUCTION



### Mill Plaza Redevelopment

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
	3/10/2021	Response to Comments
	1/20/2021	Planning Board Comments
	6/2/2020	Planning Board Comments
	5/20/2020	Planning Board Comments
	1/2/2020	General Revisions

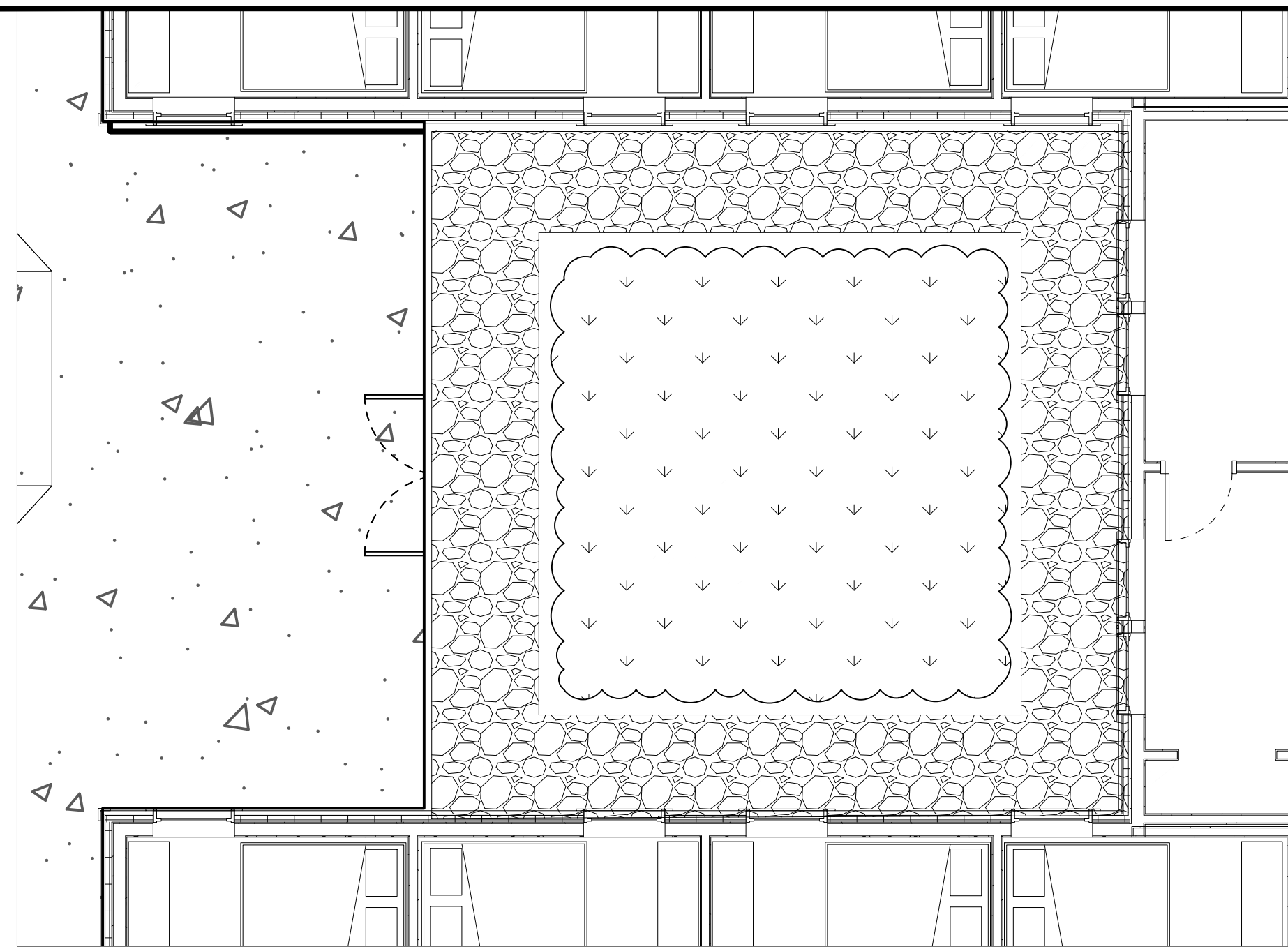
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DATE: 05/23/18  
FILE: L2.0 Planting Plans.dwg  
DRAWN BY: HAS/TNE  
CHECKED: JMP  
APPROVED: BLM

## PLANTING PLAN

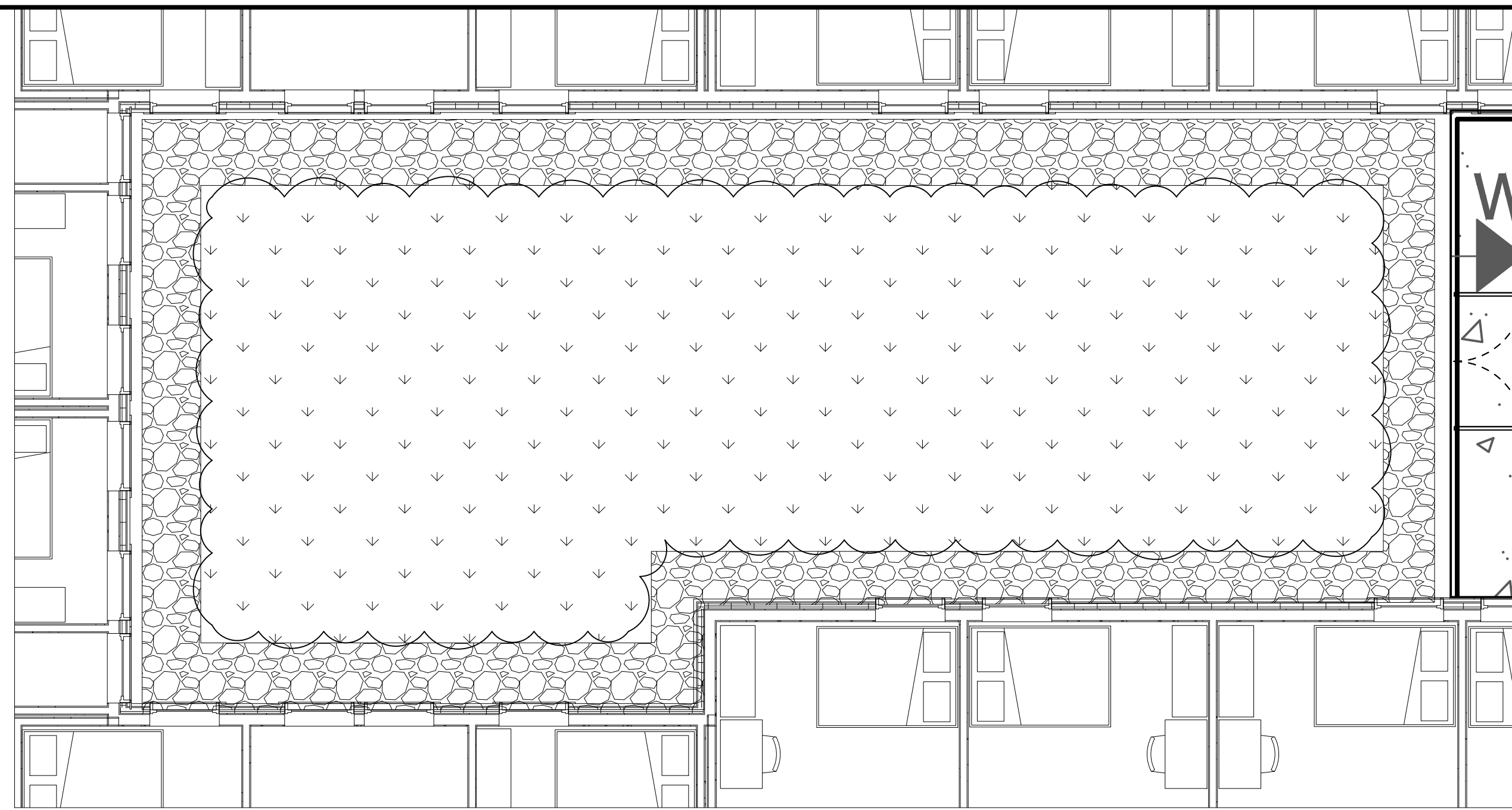
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 Plotted On: Mar 10, 2021 11:11:13am  
 Tighe & Bond \\weston\projects\2016\16117\3-project\dev\CADD\15-Arch\12.0-Planting Plans.dwg





1 GREEN ROOF B-1  
SCALE IN FEET 1" = 5'  
GRAPHIC SCALE



2 GREEN ROOF B-2  
SCALE IN FEET 1" = 5'  
GRAPHIC SCALE

PLANT LEGEND: GREEN ROOFS

DECIDUOUS SHRUBS	SIZE	NOTES	QTY
Buddleia davidii	2 Gallon	Zone: 4	20
Butterfly Bush			
Nandina domestica 'Nana'	2 Gallon	Zone: 4	20

EVERGREEN SHRUBS	SIZE	NOTES	QTY
Juniperus procumbens	1 Gallon	Zone: 4	25
Common Garden Juniper			
Gaultheria procumbens	1 Gallon	Zone: 3	40
Wintergreen			

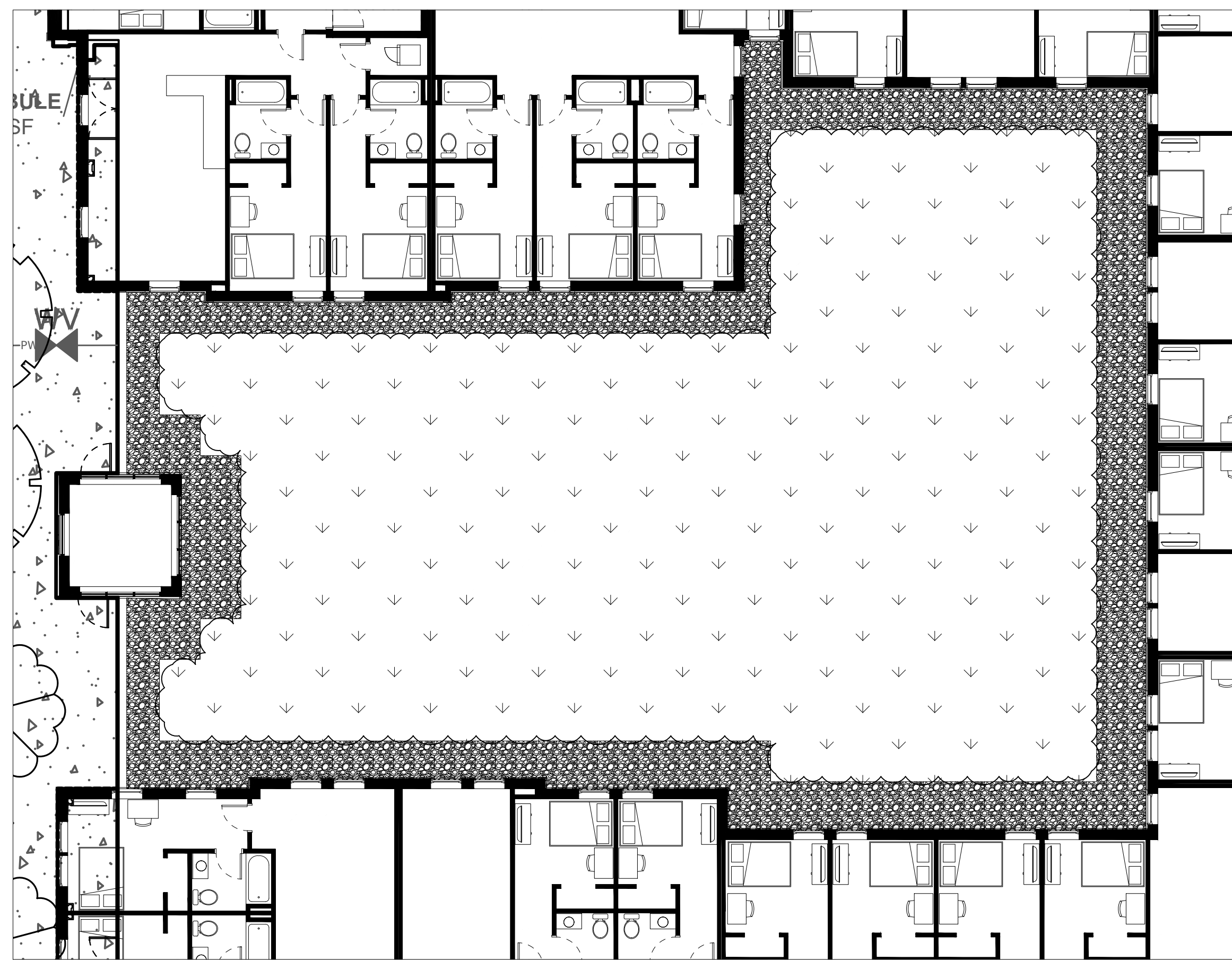
PERENNIALS	SIZE	NOTES	QTY
Achillea millefolium	#3 Container	Zone: 3	175
Yarrow			
Aljuga reptans	1 Gallon	Zone: 3	175
Common Bugle			
Allium schoenoprasum	#1 Container	Zone: 4	175
Chives			
Aquilegia canadensis	#3 Container	Zone: 3	175
Columbine			
Hemerocallis 'Anna Warne'	#3 container	Zone: 3a	175
Day Lily			
Lavandula angustifolia	#3 Container	Zone: 5	175
English Lavender			
Oenothera fruticosa	#2 Container	Zone: 4	175
Evening Primrose			
Rudbeckia fulgida	#3 Container	Zone: 3	175
Orange Coneflower			
Sedum varieties	#1 Container	Zone: 4	175
Perennial sedum			
Stachys byzantina	#2 Container	Zone: 4	175
Lamb's Ears			
Symphoricarum novae-angliae	#3 Container	Zone: 4	175
New England Aster			

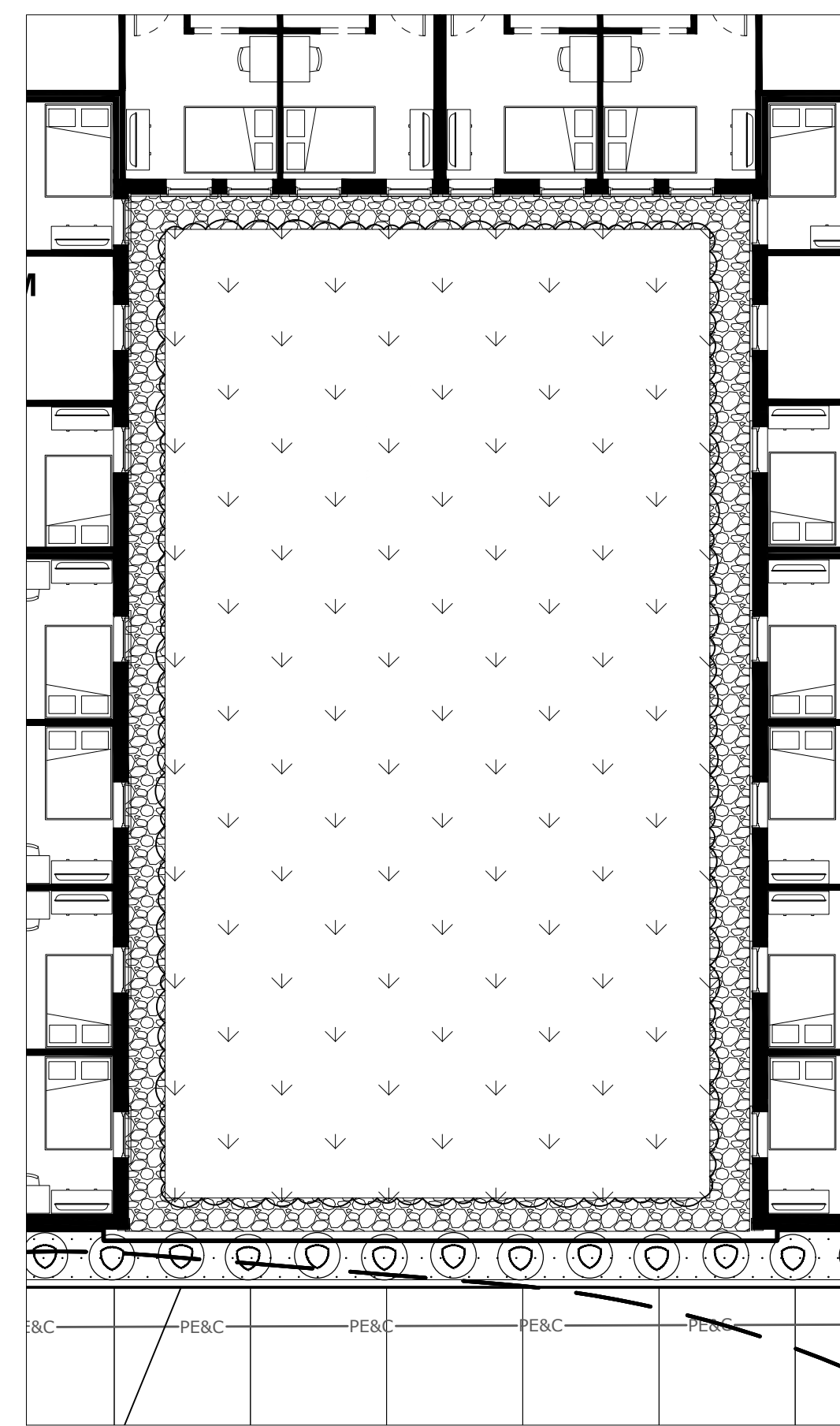
ORNAMENTAL GRASSES	SIZE	NOTES	QTY
Carex flacca	#3 container	Zone: 4	150
Blue - green Sedge			
Eragrostis spectabilis	#3 container	Zone: 5	200
Purple Lovegrass			
Festuca glauca	#3 container	Zone: 4	175
Blue Fescue			

6 PLANT LIST

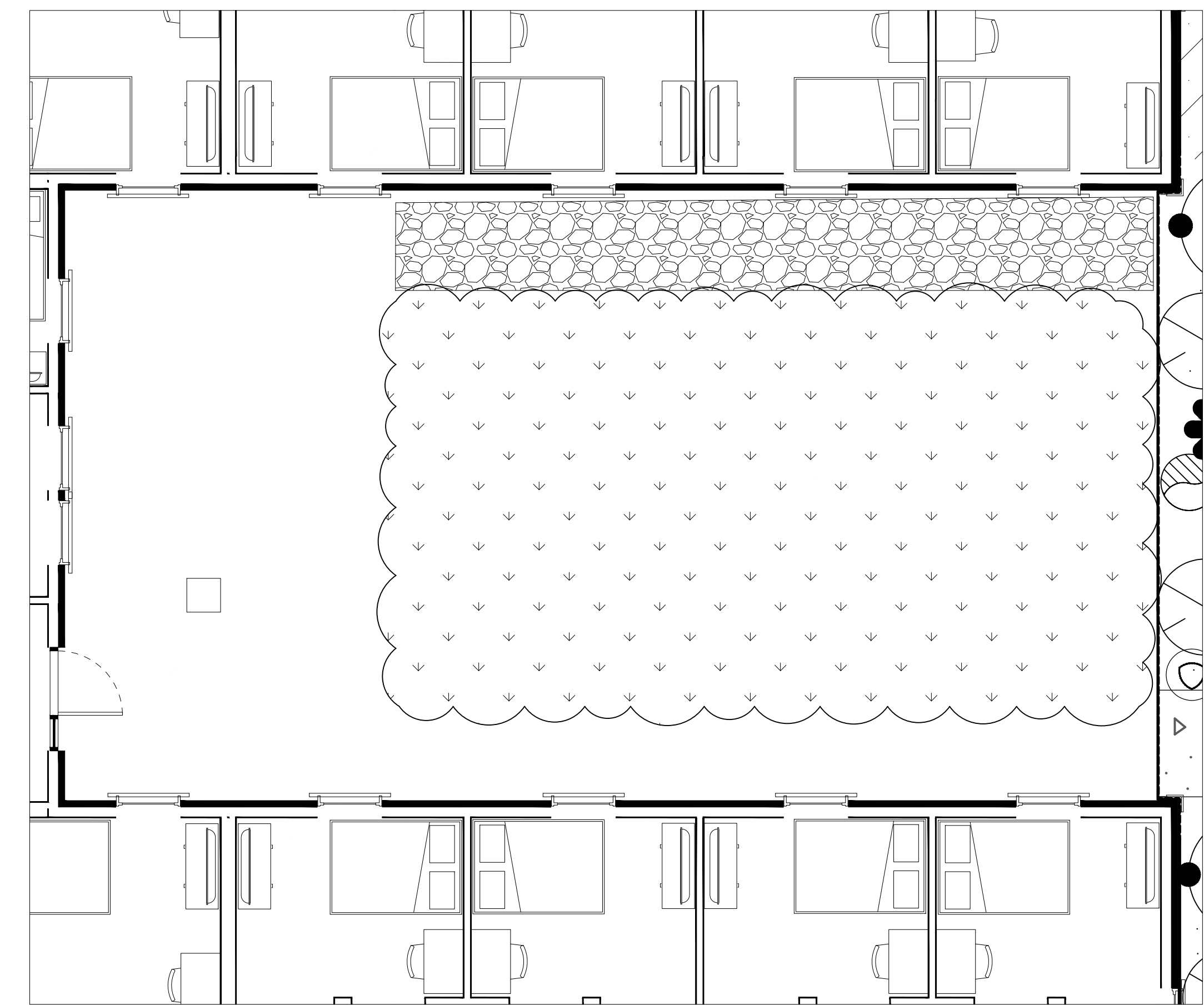
1. Not all plant material species and quantities shown will be used. Final plant material specifications dependent on conformance to, and approval by, local and state regulations and agencies.
2. Plant material specified shall conform to ANLA American Standard for Nursery Stock, ANSI Z60.1 current edition.
3. Plant material installed on roof membrane using 4'x4' tray system.
4. No permanent irrigation system is proposed.



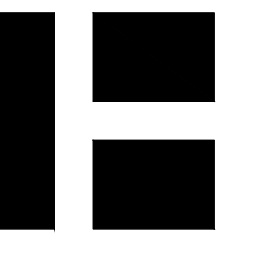
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GRAPHIC SCALE



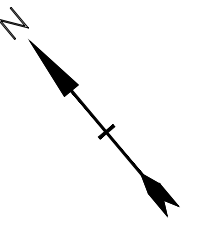
4 GREEN ROOF C-2  
SCALE IN FEET 1" = 10'  
GRAPHIC SCALE



5 GREEN ROOF C-3  
SCALE IN FEET 1" = 5'  
GRAPHIC SCALE



PERMIT DRAWINGS  
NOT FOR CONSTRUCTION



Mill Plaza  
Redevelopment

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
	1/20/2021	Planning Board Comments
	6/2/2020	Planning Board Comments
	5/20/2020	Planning Board Comments
	1/2/2020	General Revisions

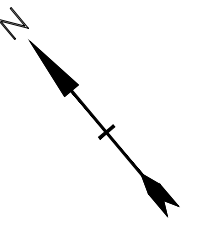
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DATE: 05/23/18  
FILE: L2.0 Planting Plans.dwg  
DRAWN BY: HAS/TNE  
CHECKED BY: JMP  
APPROVED BY: BLM

ROOF PLANTING  
PLANS

SCALE:  
L2.4

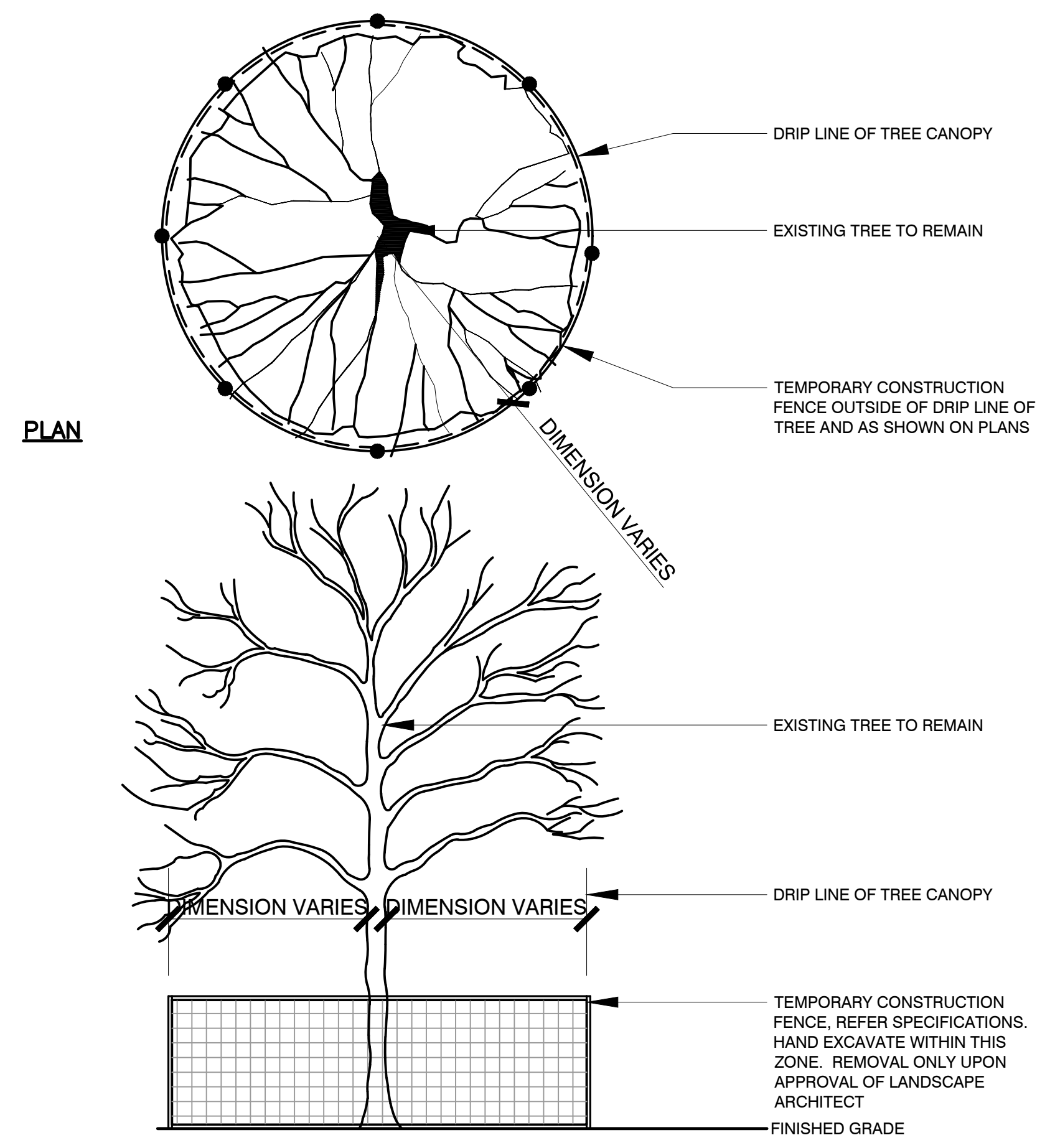
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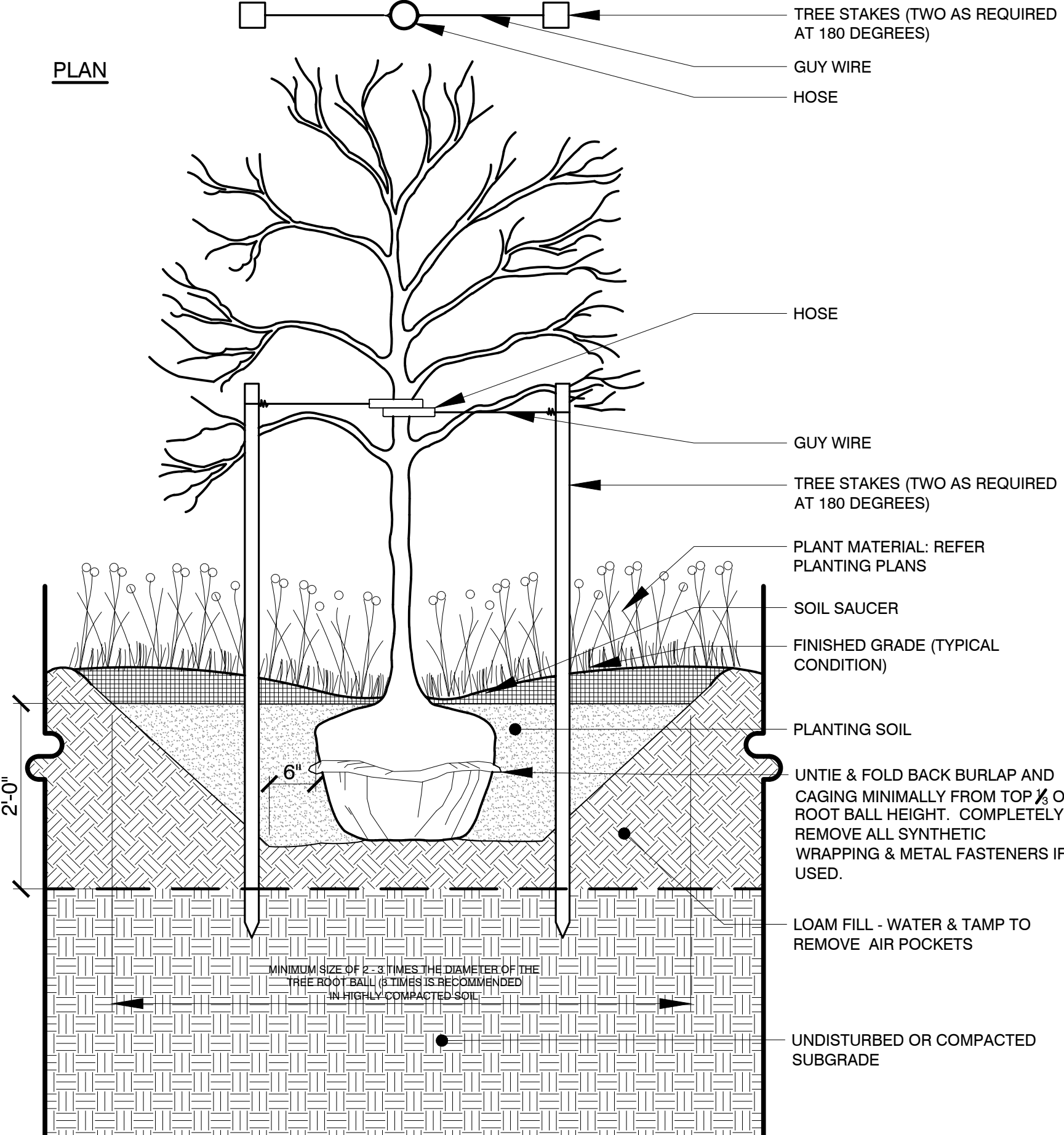


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	1/20/2021	Planning Board Comments
	6/2/2020	Planning Board Comments
	5/20/2020	Planning Board Comments
	1/2/2020	General Revisions

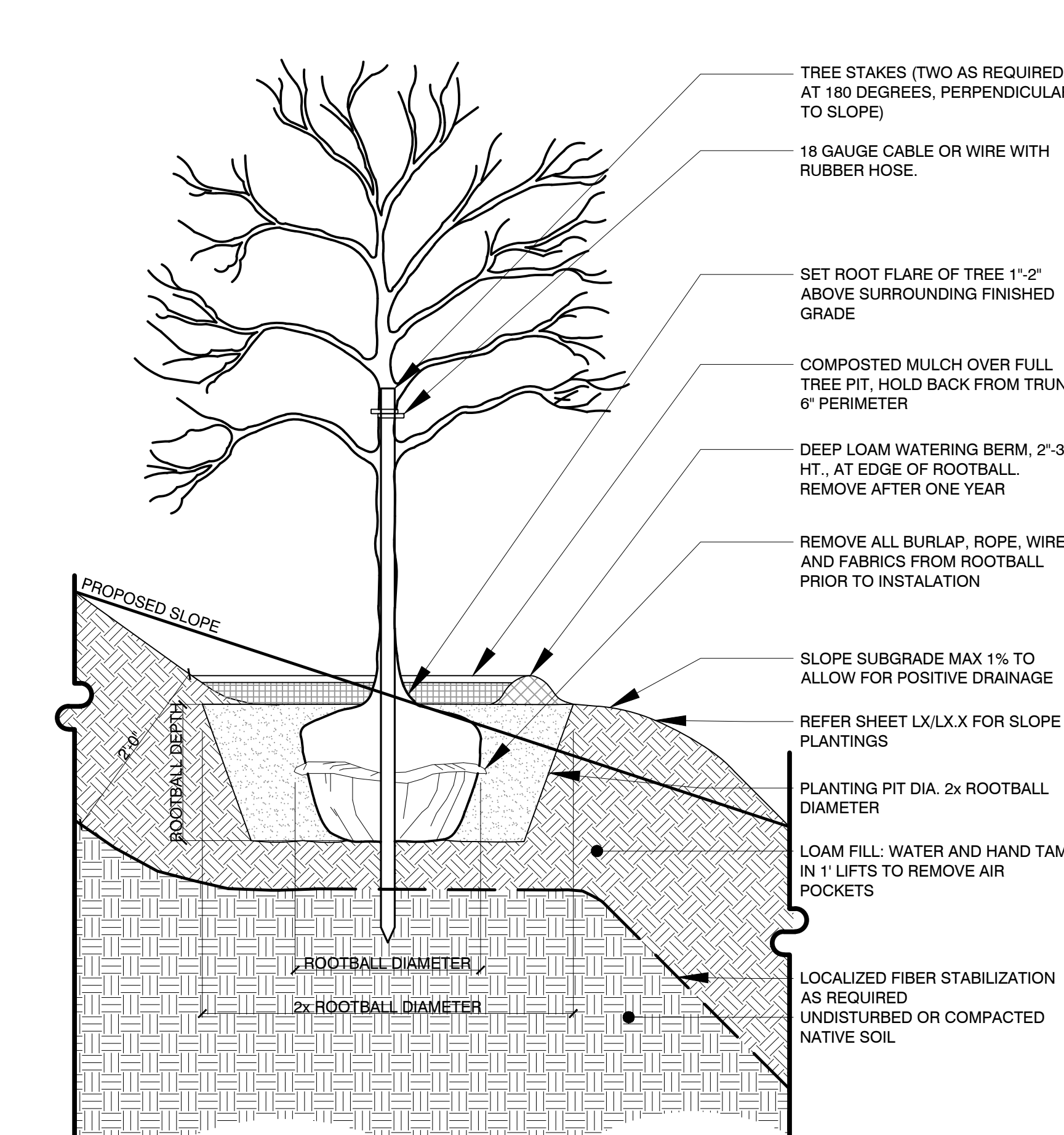
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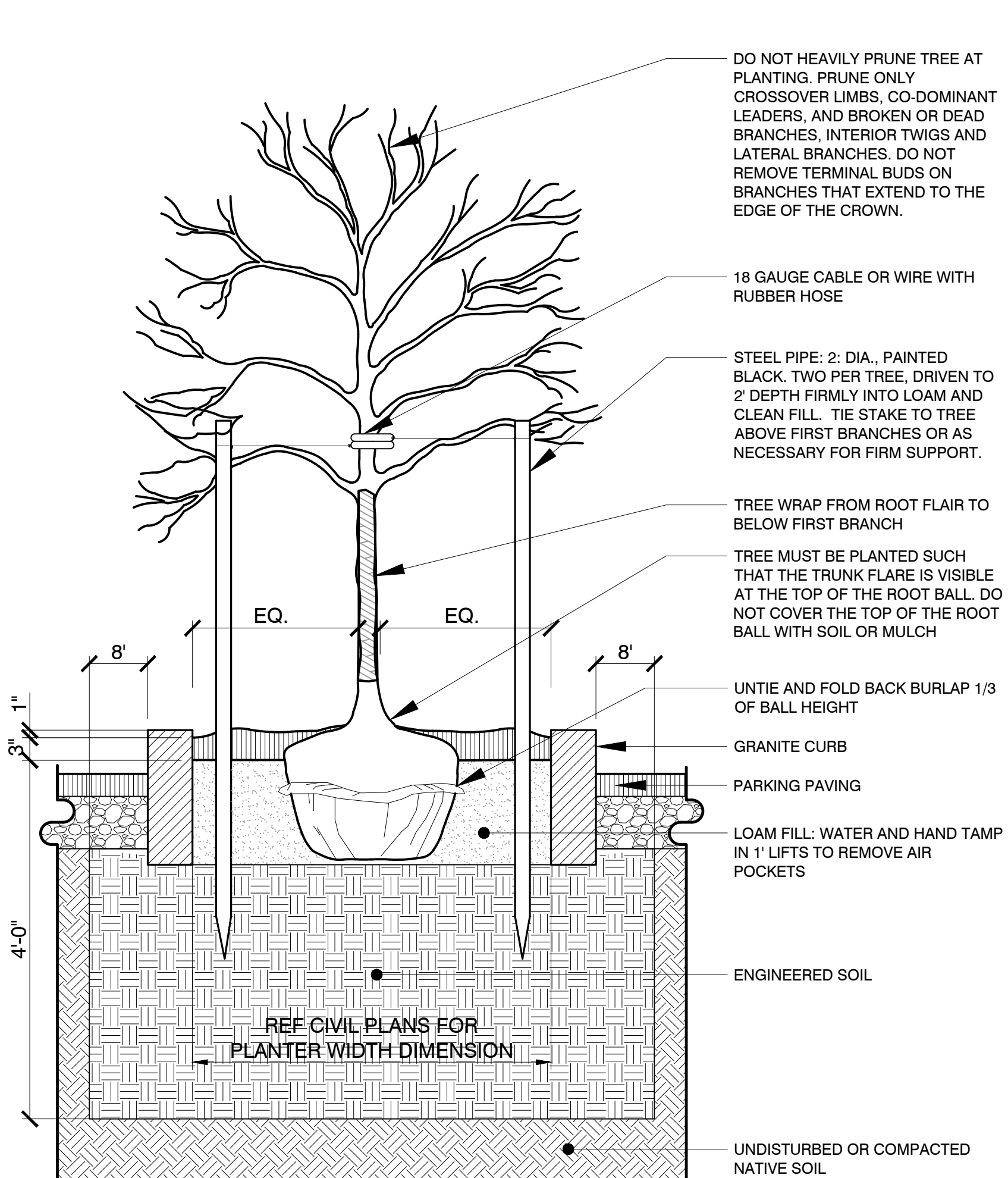
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**1 PROTECTION FOR EXISTING TREES**  
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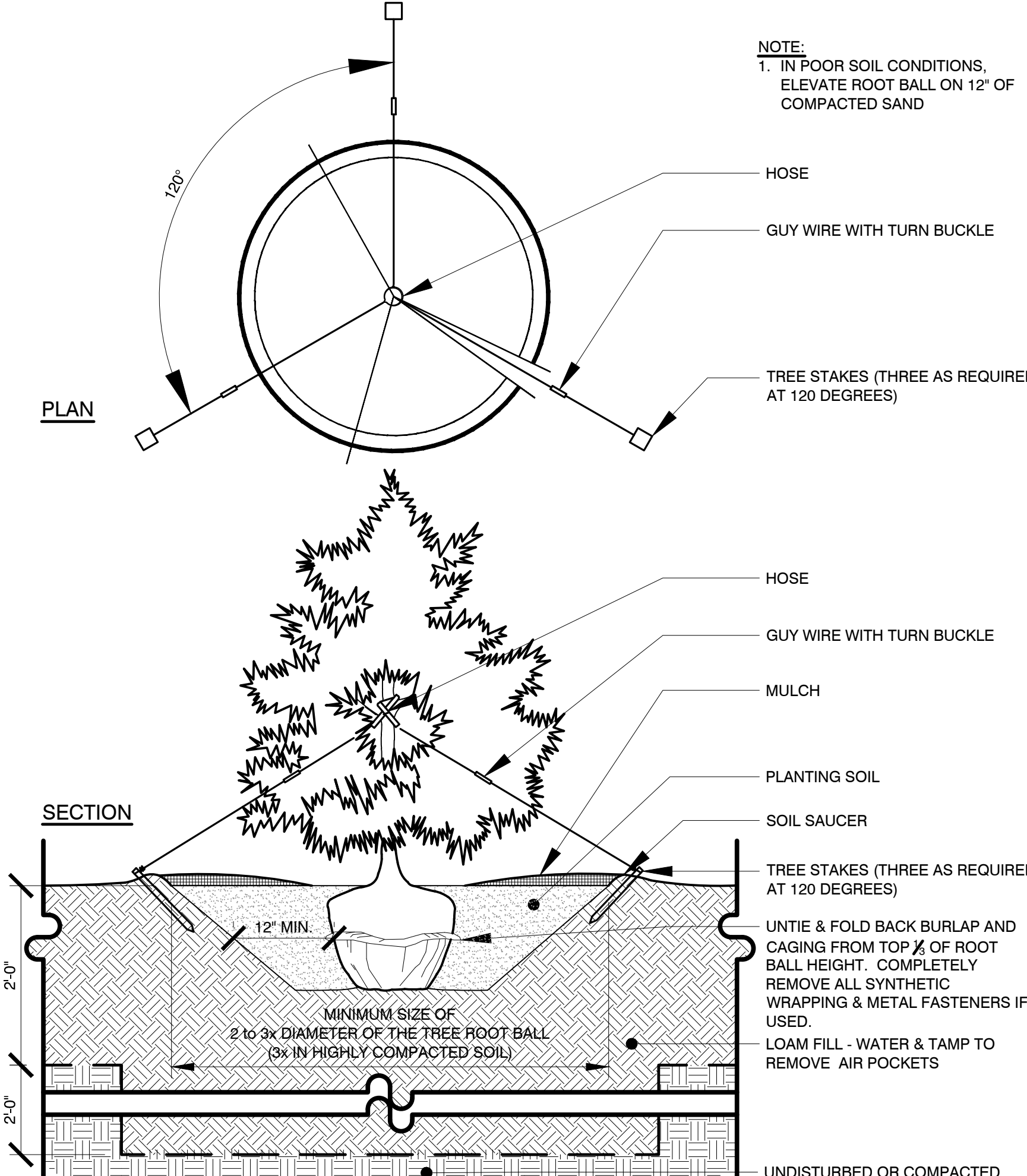
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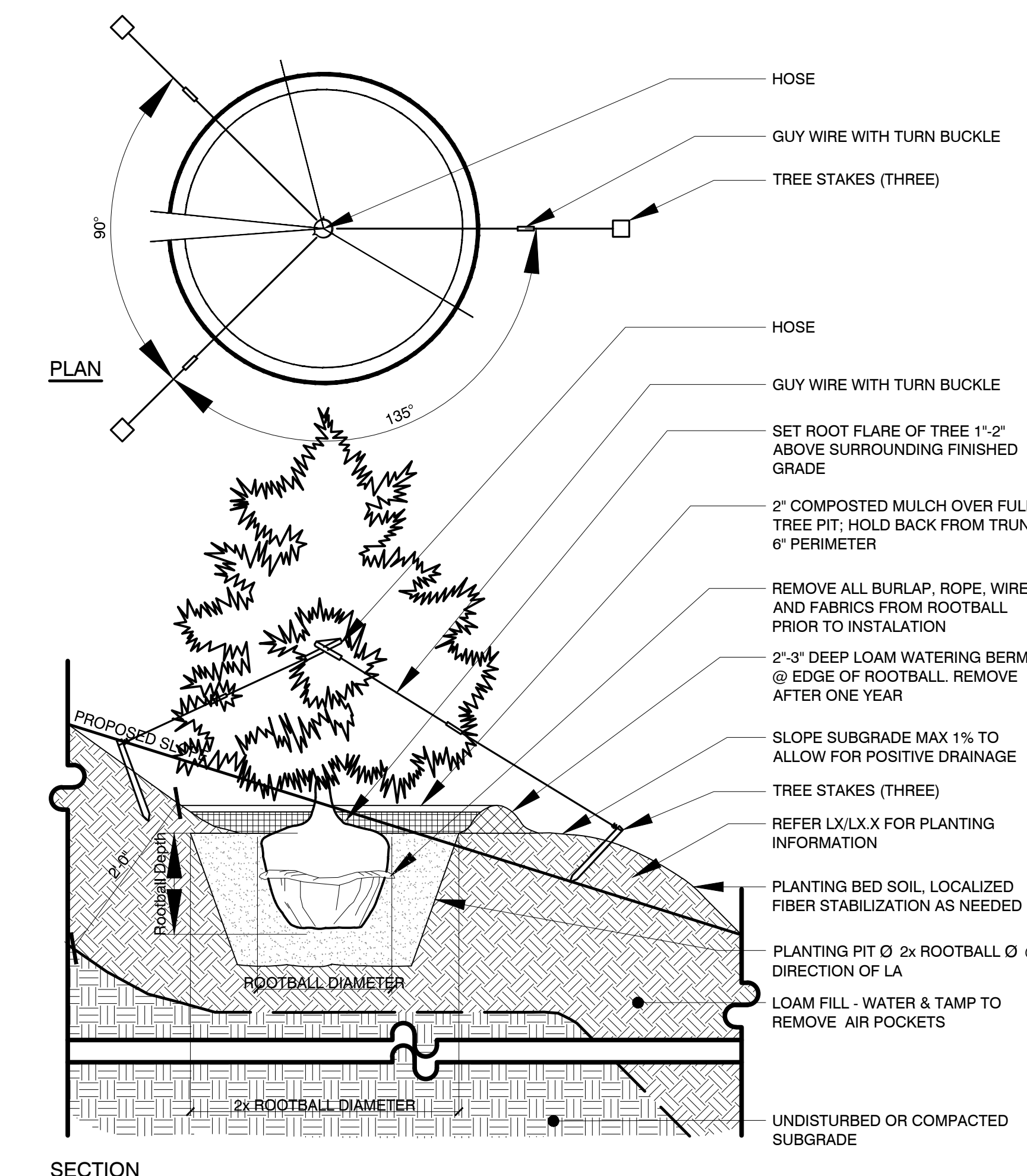
**SECTION**  
**3 DECIDUOUS TREE PLANTING, STEEP TO MODERATE SLOPES**  
Scale: Not To Scale



**SECTION**  
**4 DECIDUOUS TREE PLANTING, CENTER PARKING ISLAND**  
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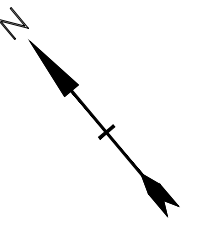
**SECTION**  
**5 EVERGREEN TREE PLANTING, TYPICAL**  
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**SECTION**  
**6 EVERGREEN TREE PLANTING, STEEP TO MODERATE SLOPES**  
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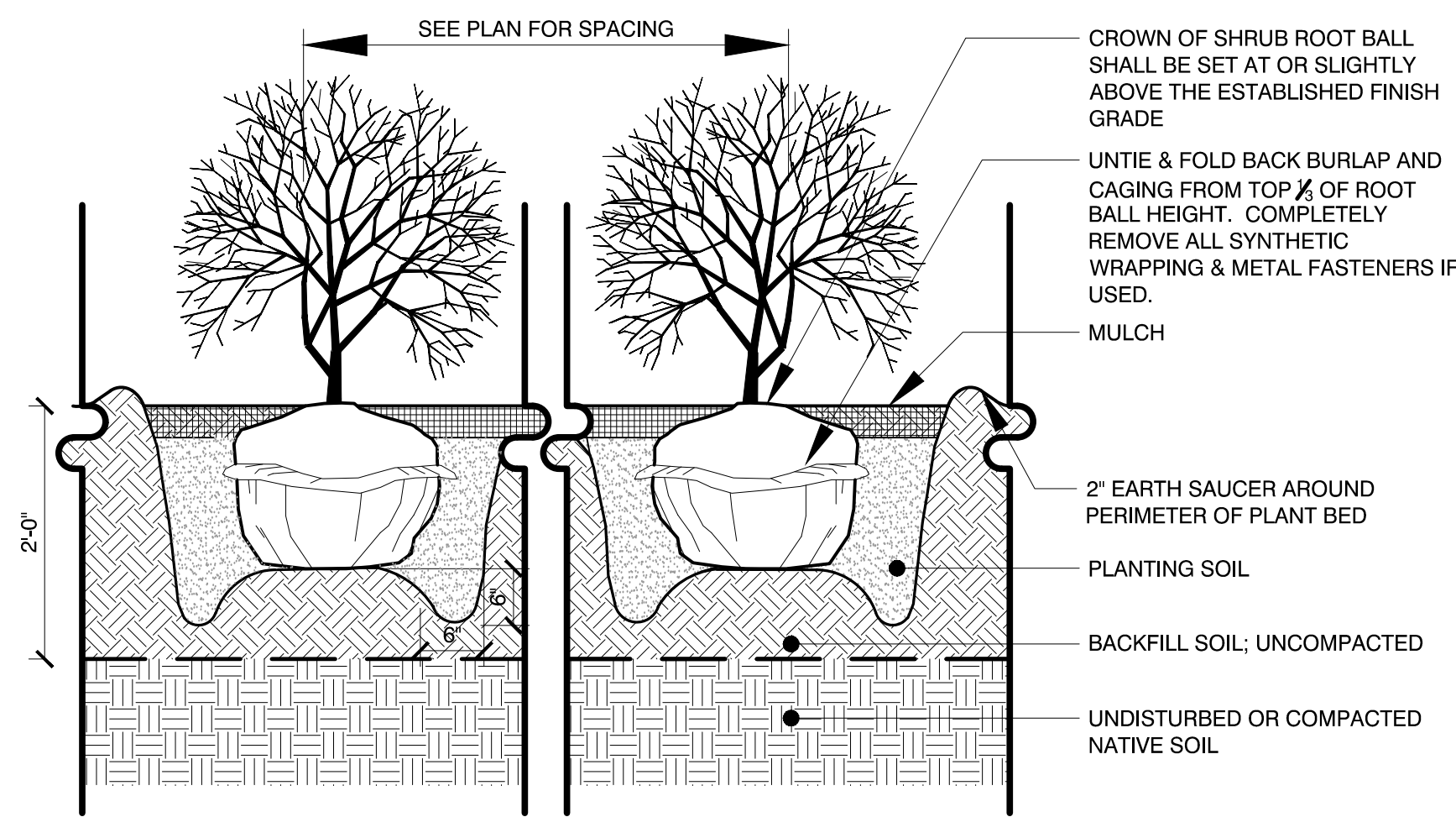


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6/2/2020	Planning Board Comments	
5/20/2020	Planning Board Comments	
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DATE:	05/23/18	
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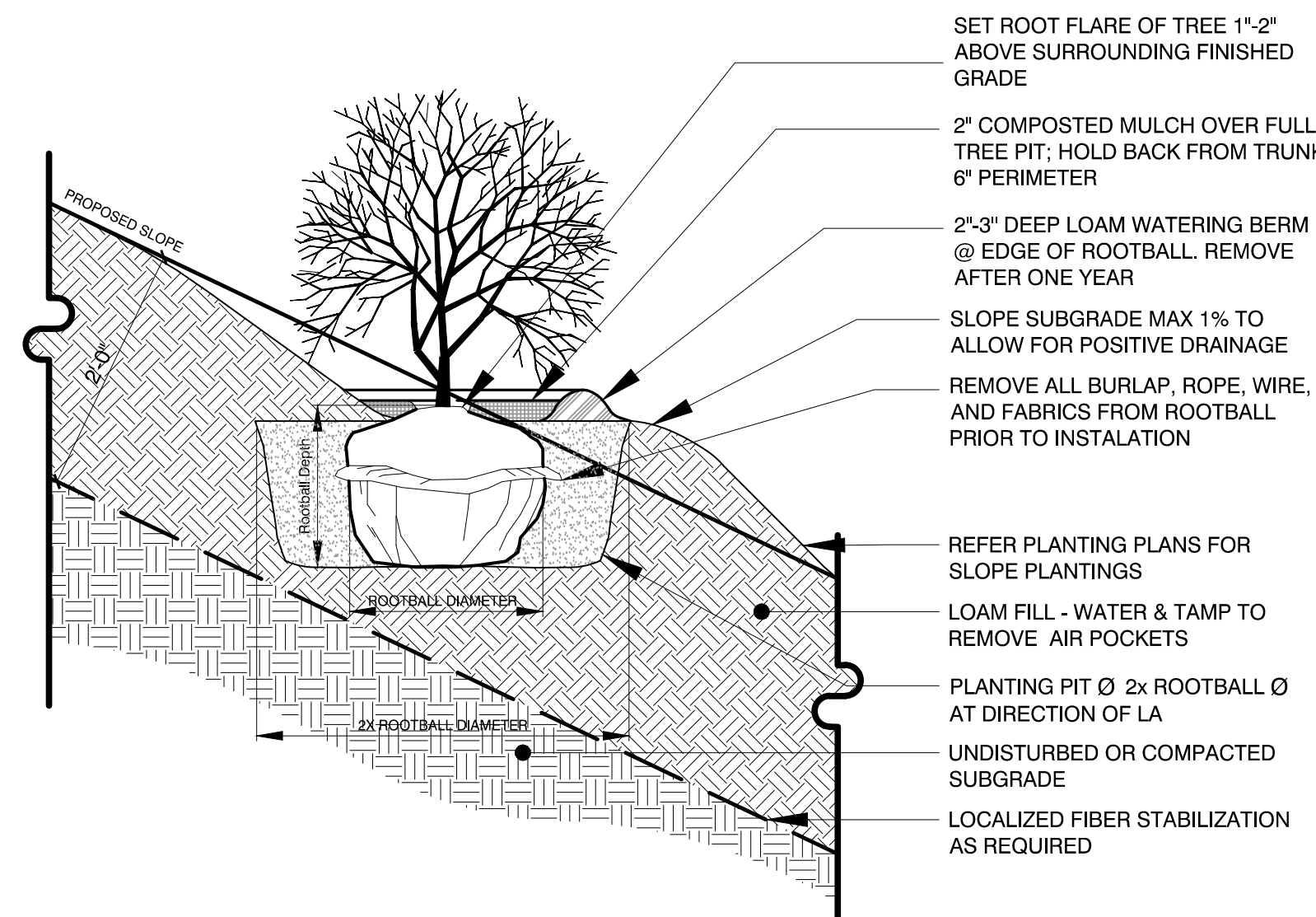
**PLANTING  
DETAILS**

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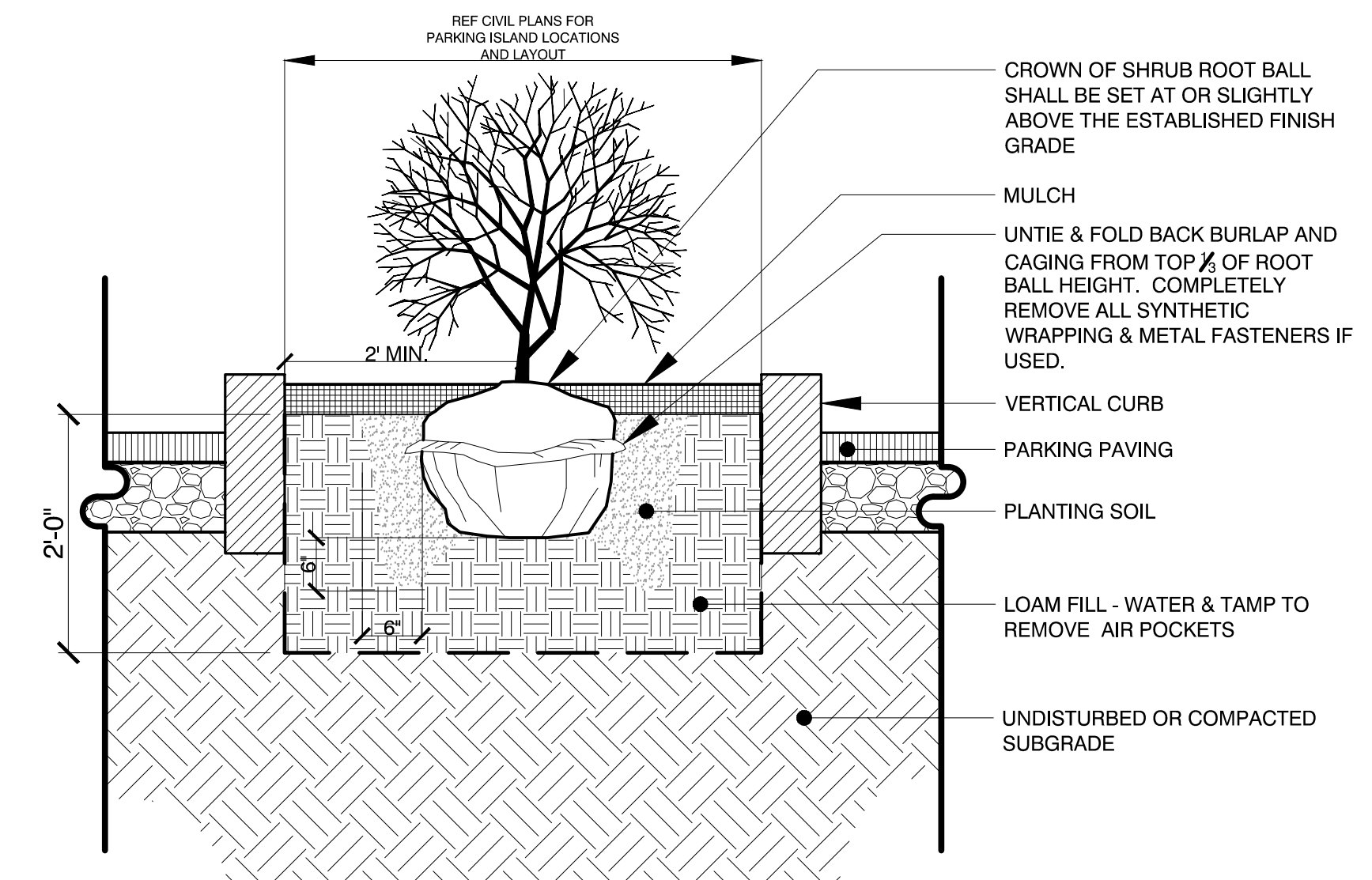
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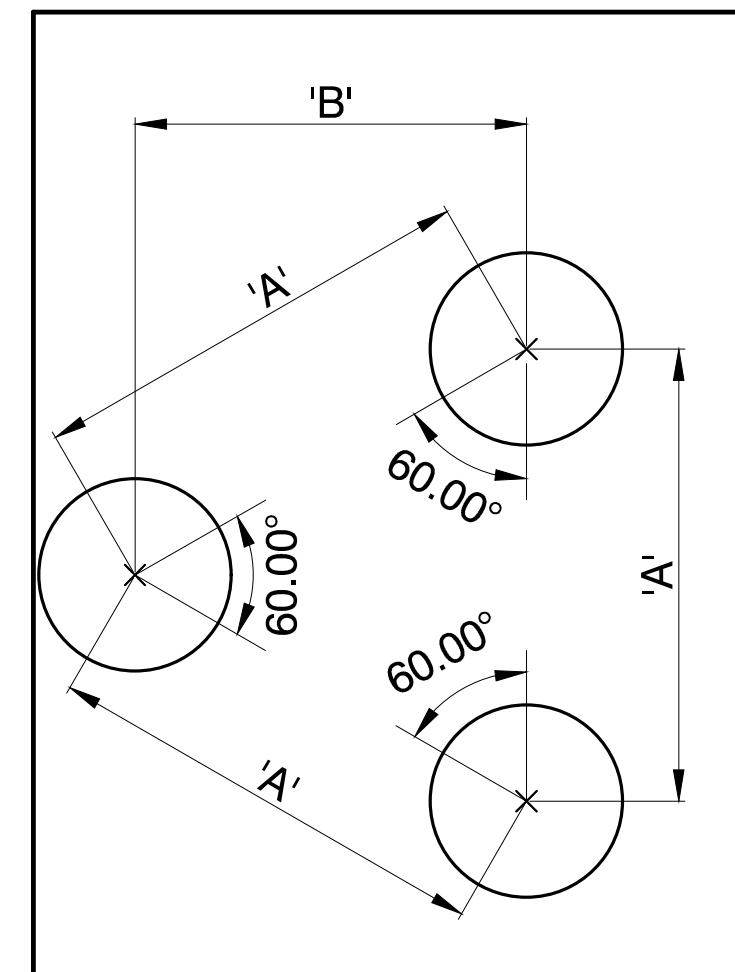
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**2 SHRUB PLANTING: STEEP TO MODERATE SLOPES**  
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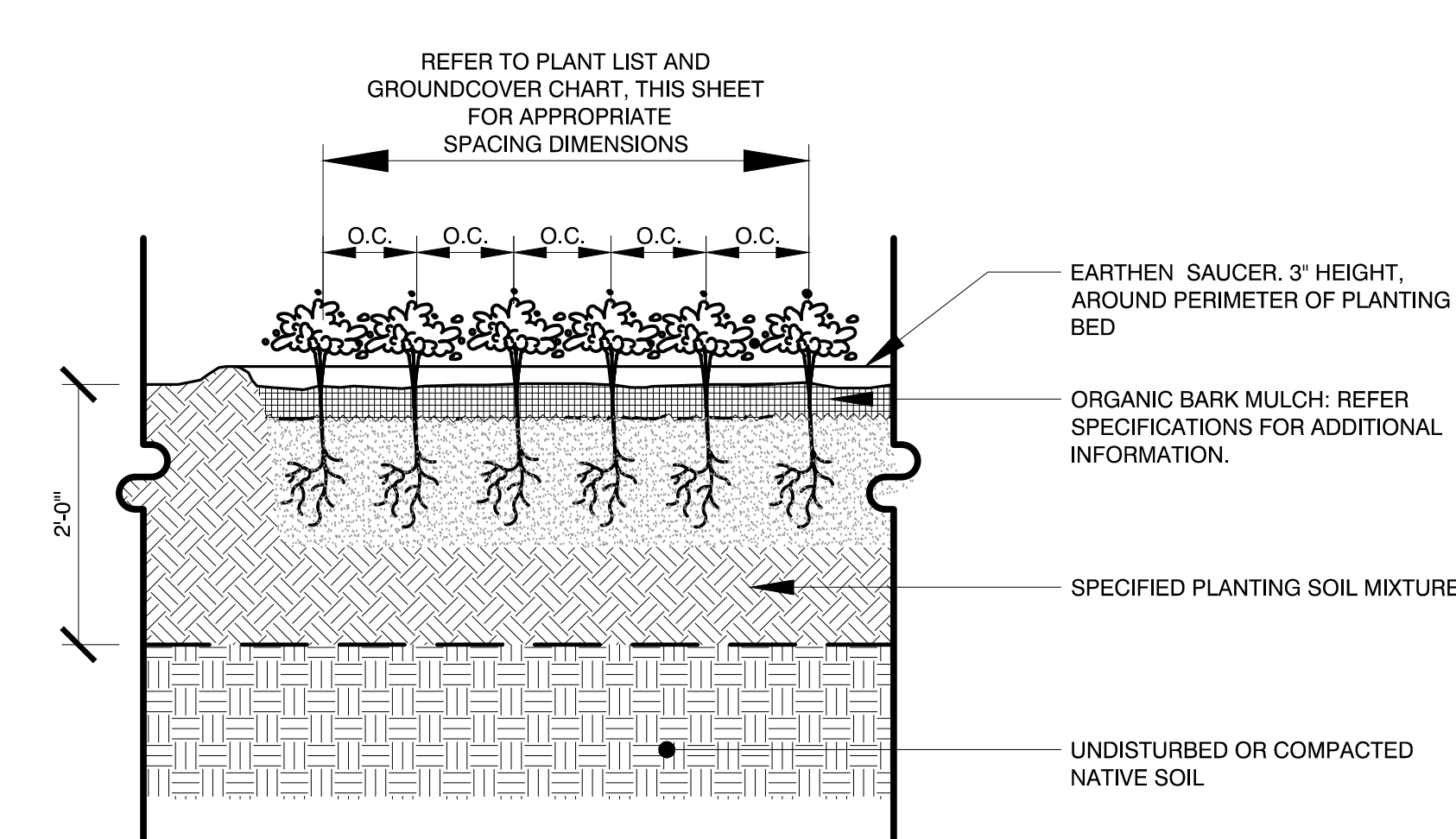


**3 SHRUB PLANTING: PARKING ISLAND**  
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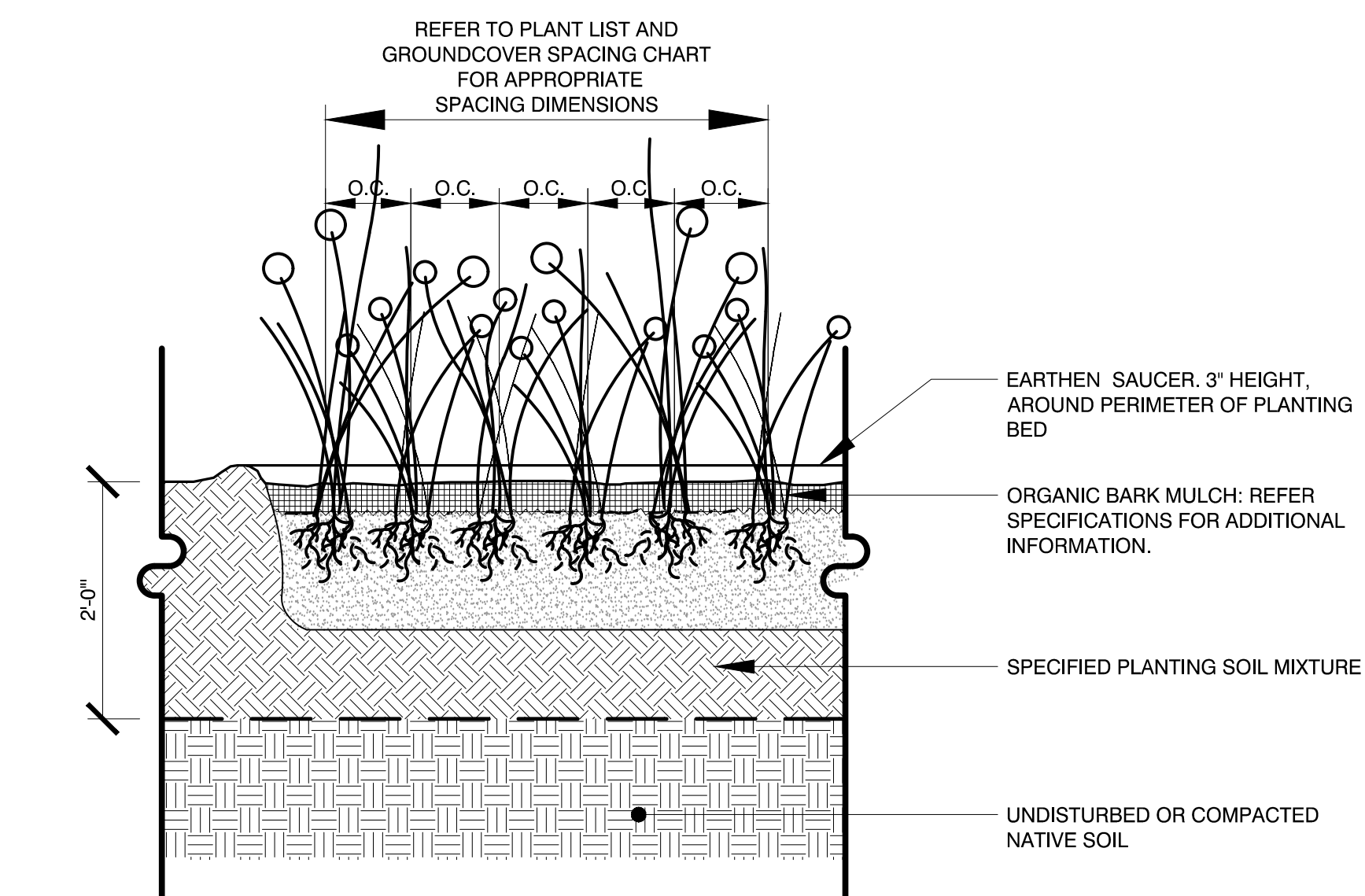


PLANT SPACING ('A')	ROW SPACING ('B')
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8 1/2 IN. O.C.
12 IN. O.C.	10 1/2 IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.
24 IN. O.C.	21 IN. O.C.
30 IN. O.C.	26 IN. O.C.
36 IN. O.C.	30 IN. O.C.
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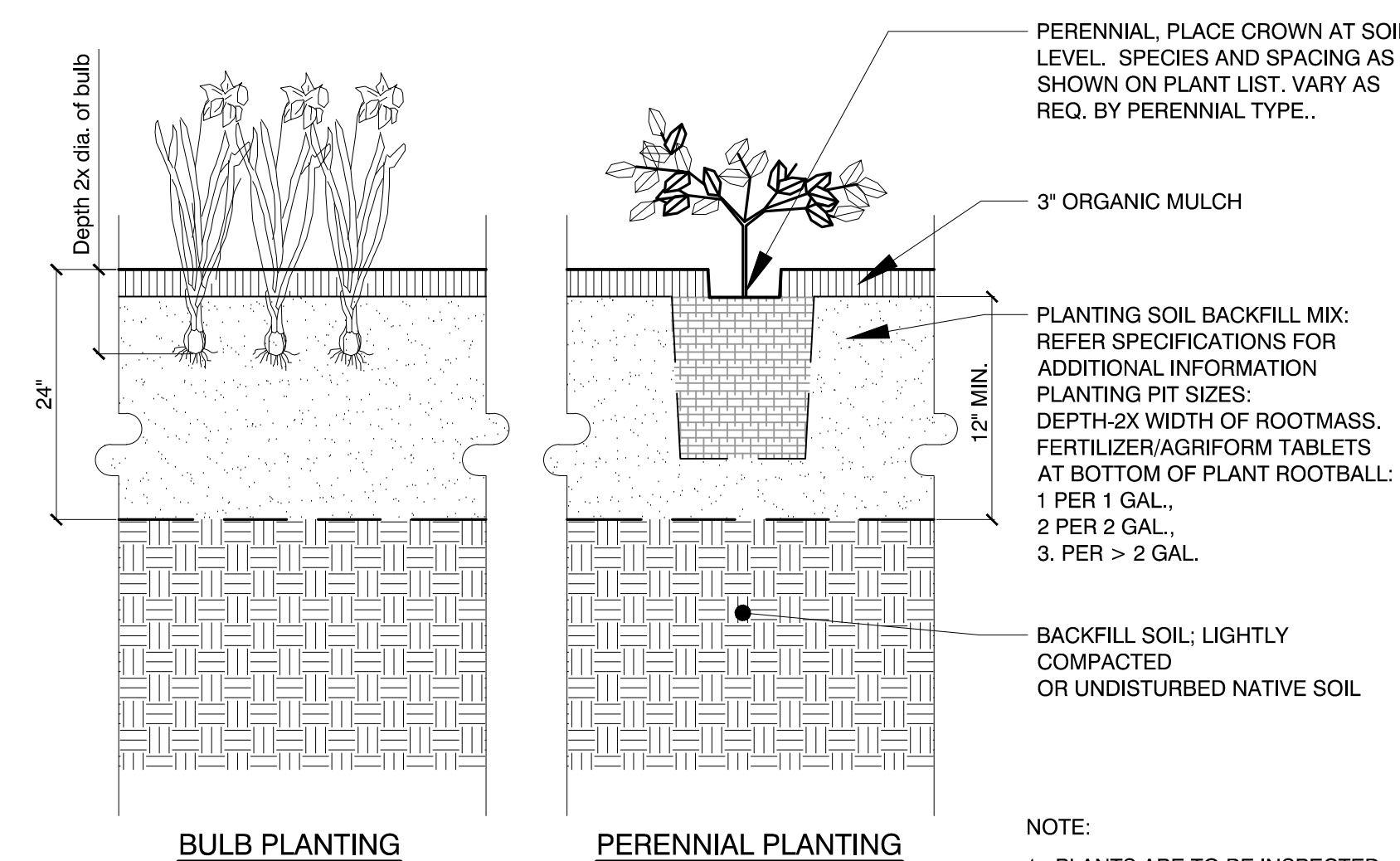
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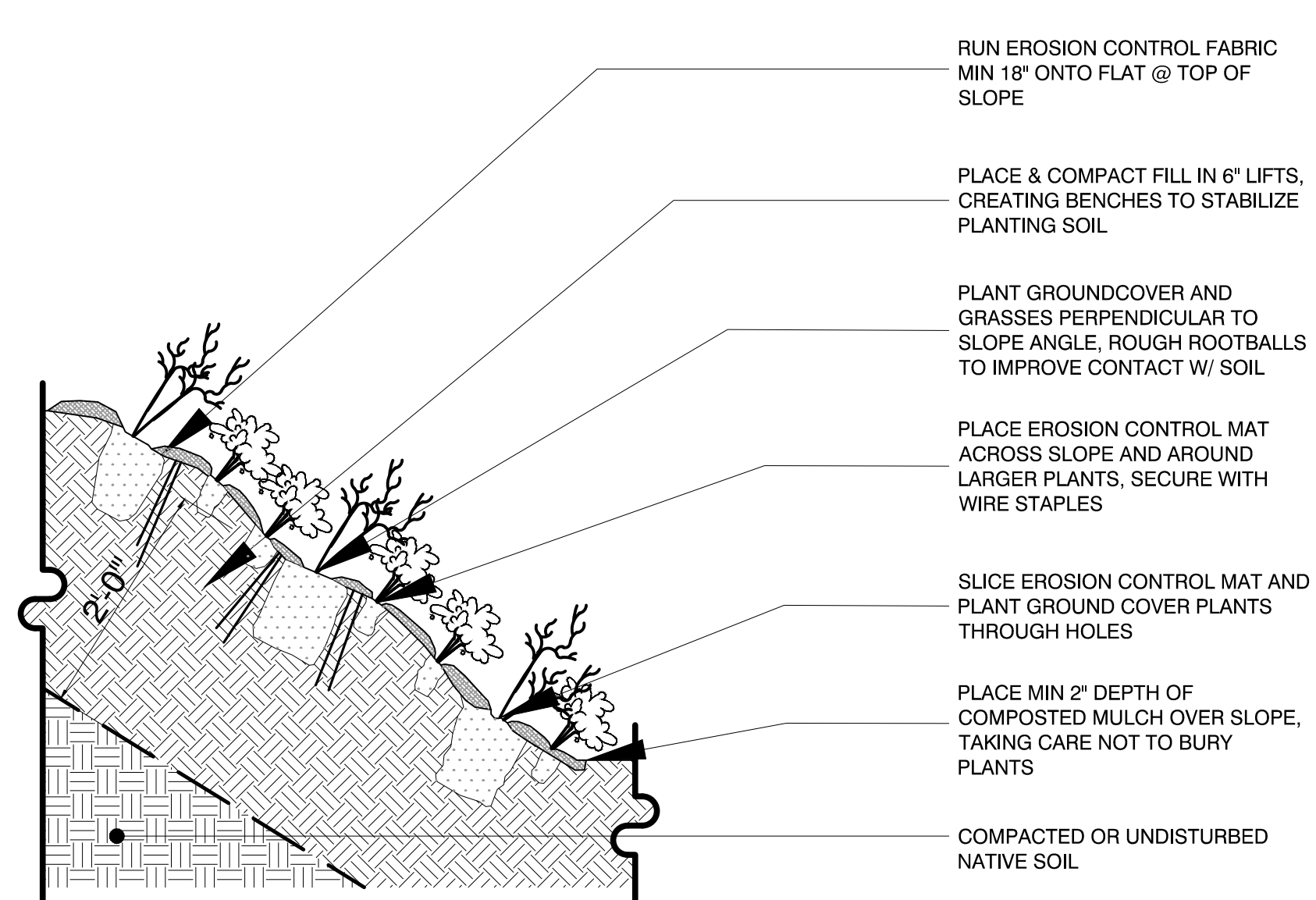
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Scale: Not To Scale



**6 ORNAMENTAL GRASS PLANTING, TYPICAL**  
Scale: Not To Scale



**7 BULB AND PERENNIAL PLANTING, TYPICAL**  
Scale: Not to Scale



**8 GROUNDCOVER PLANTINGS: 3:1 SLOPE OR GREATER**  
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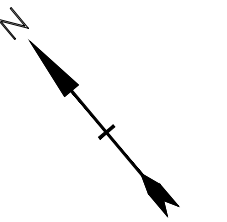




AUBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

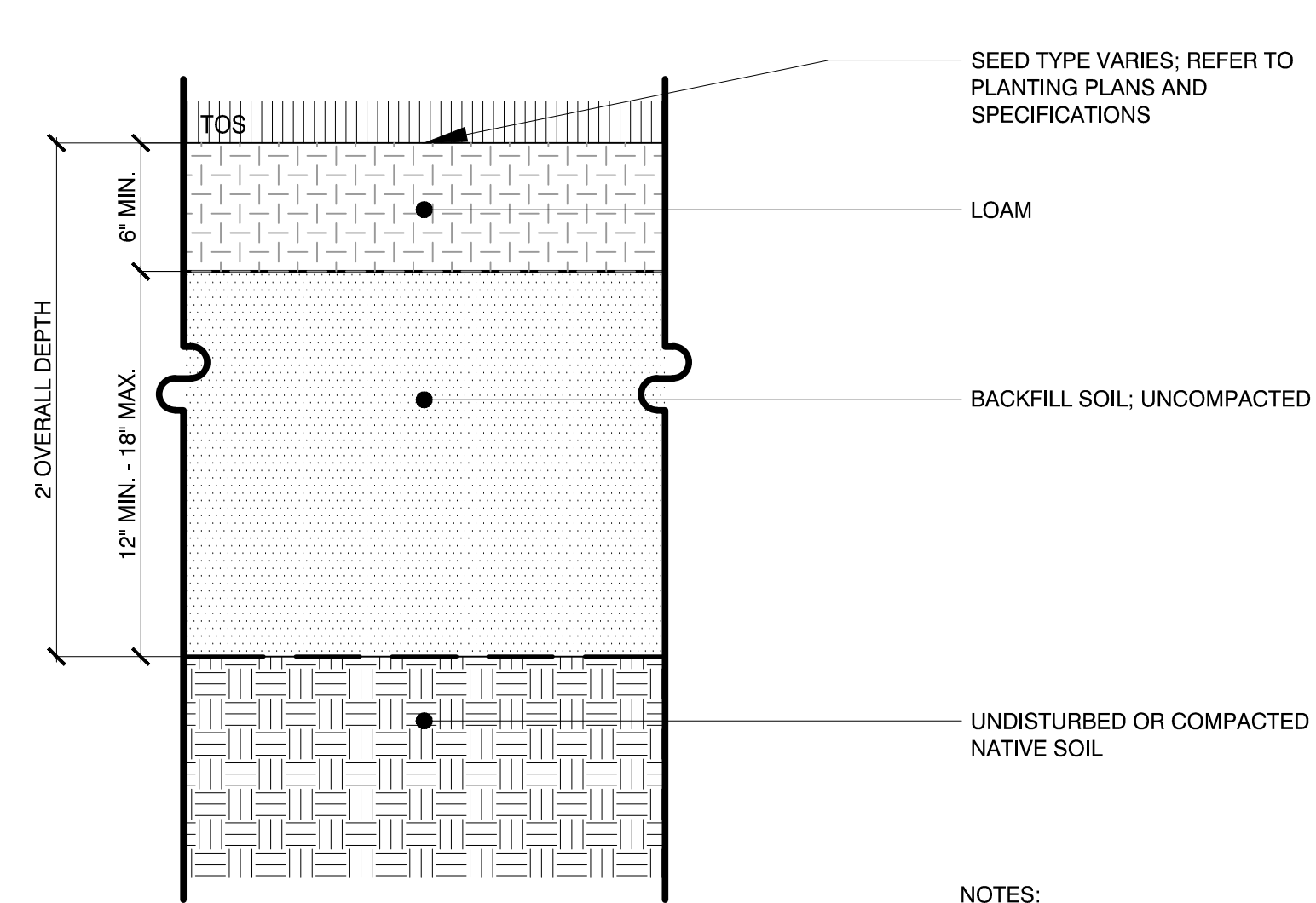
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6/2/2020	Planning Board Comments
5/20/2020	Planning Board Comments
1/2/2020	General Revisions

MARK	DATE	DESCRIPTION
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DATE:	05/23/18	
FILE:	L3.0 Planting Details.dwg	
DRAWN BY:	HAS/TNE	
CHECKED:	JMP	
APPROVED:	BLM	

**PLANTING  
DETAILS**

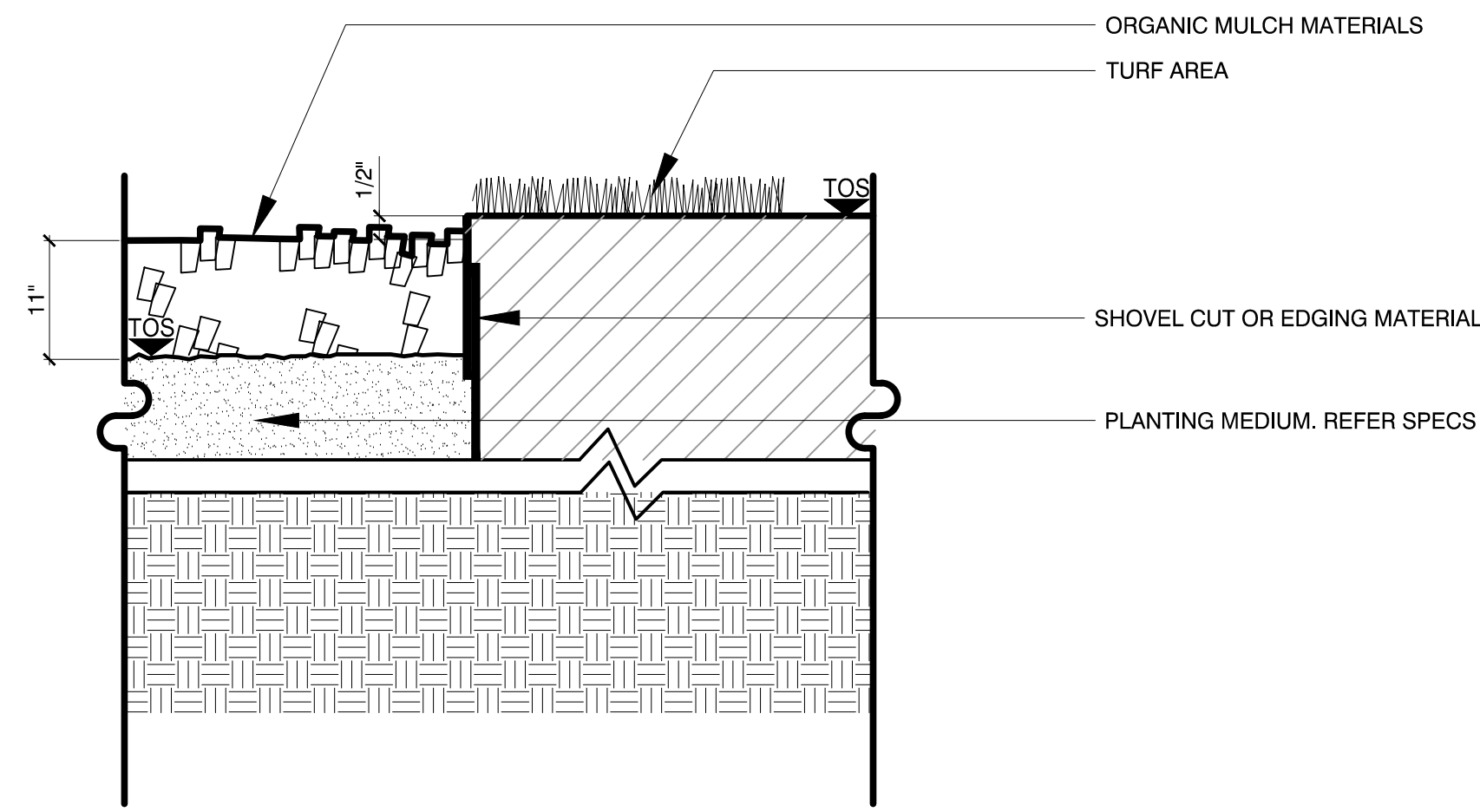
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**L3.2**



NOTES:  
1. TOS Top of soil

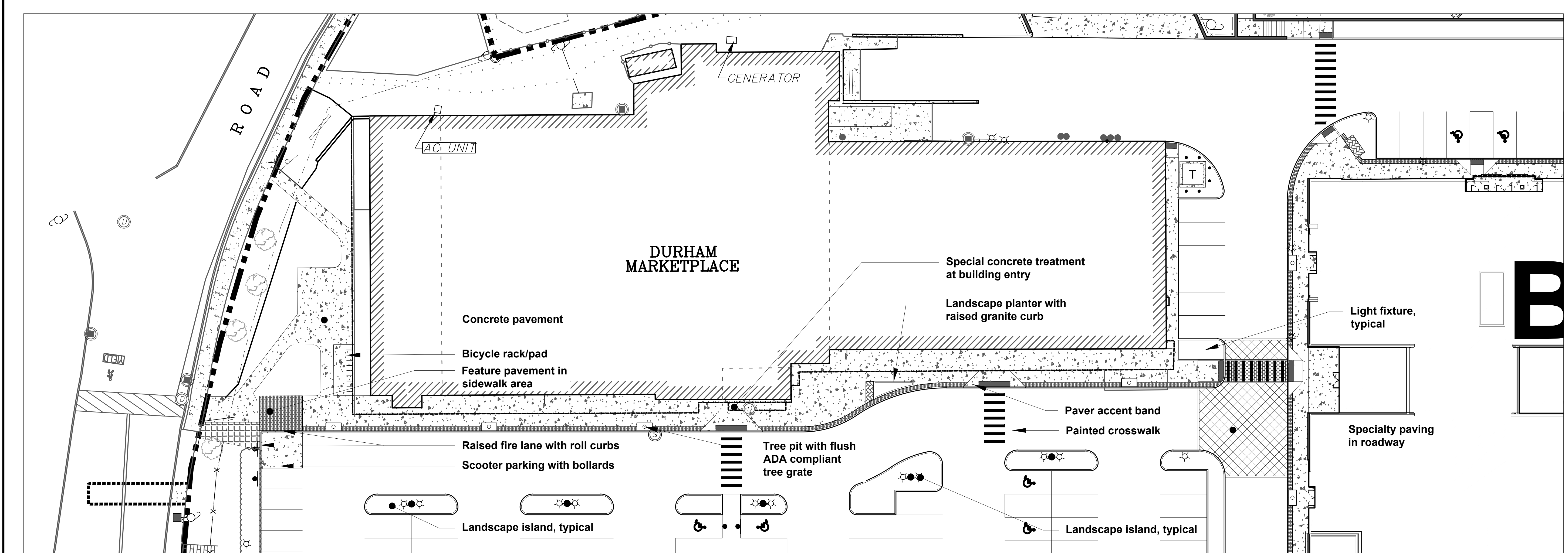
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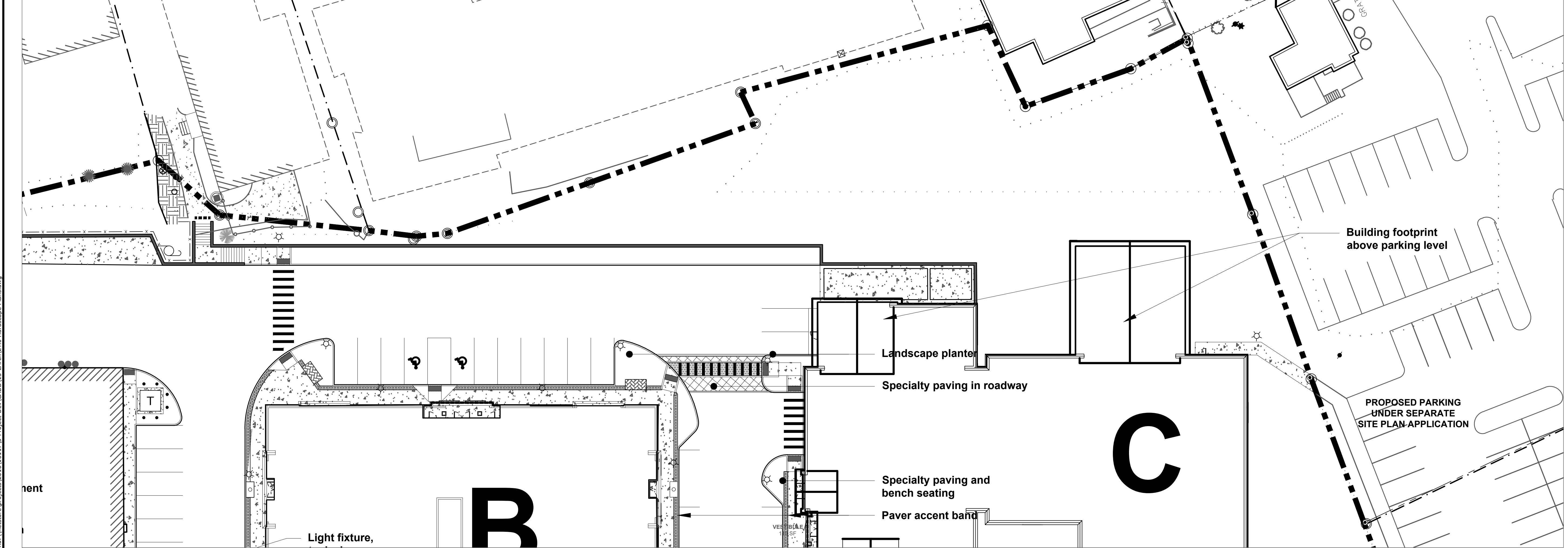
NOTES:  
1. TOS Top of Soil

**2 ORGANIC MULCH**  
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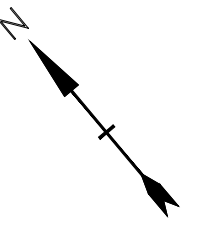


**A** STREETScape PLAN ENLARGEMENT A  
SCALE 1" = 10'-0"



**B** STREETScape PLAN ENLARGEMENT B  
SCALE 1" = 10'-0"

**PERMIT DRAWINGS  
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**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

MARK	DATE	DESCRIPTION
	1/2/2020	General Revisions
PROJECT NO:	M1529-002	
DATE:	05/23/18	
FILE:	L4.0 Hardscape Plans.dwg	
DRAWN BY:	HAS/TNE	
CHECKED:	JMP	
APPROVED:	BLM	

**HARDScape  
PLAN**

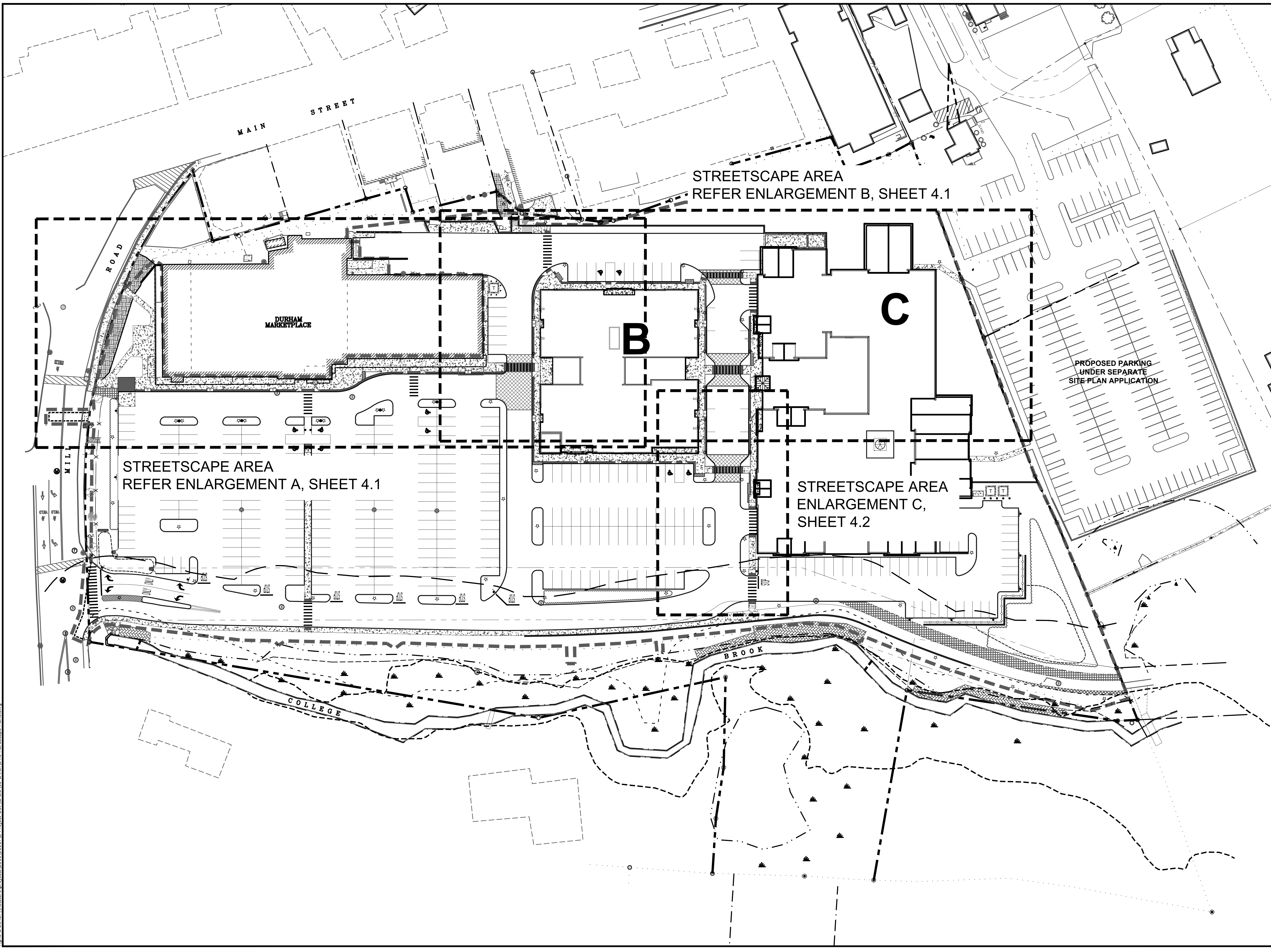
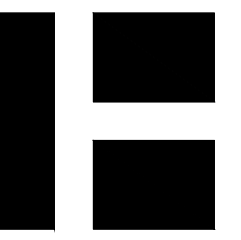
SCALE:  
**L4.1**

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 Plotted On: Dec 31, 2019 12:29pm  
 Tighe & Bond \inetstore\projects\2016\16117\3-project-dev\CADD\L4-Hardscape-Plans.dwg









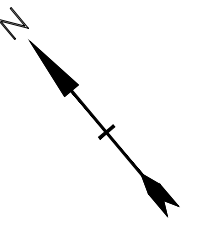
STREETSCAPE AREA  
REFER ENLARGEMENT B, SHEET 4.1

STREETSCAPE AREA  
REFER ENLARGEMENT A, SHEET 4.1

STREETSCAPE AREA  
ENLARGEMENT C,  
SHEET 4.2

PROPOSED PARKING  
UNDER SEPARATE  
SITE PLAN APPLICATION

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

7 Mill Road, Unit L  
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New Hampshire 03824

MARK	DATE	DESCRIPTION
	1/2/2020	General Revisions

PROJECT NO: M1529-002  
DATE: 05/23/18  
FILE: L4.0 Hardscape Plans.dwg  
DRAWN BY: HAS/TNE  
CHECKED BY: JMP  
APPROVED BY: BLM

**HARDSCAPE  
OVERALL PLAN**

SCALE:  
**L4.0**

Last Saved: 12/31/2019 12:30pm By: henryder  
 Plotted On: Dec 31, 2019 12:30pm  
 Tighe & Bond: \\netstore\projects\2016\16117\3-project\Dev\CADD\15-LArch\14.0-hardscape-Plans.dwg





**A1** EXTERIOR ELEVATION - "B" WEST  
SCALE: 1/16" = 1'-0"



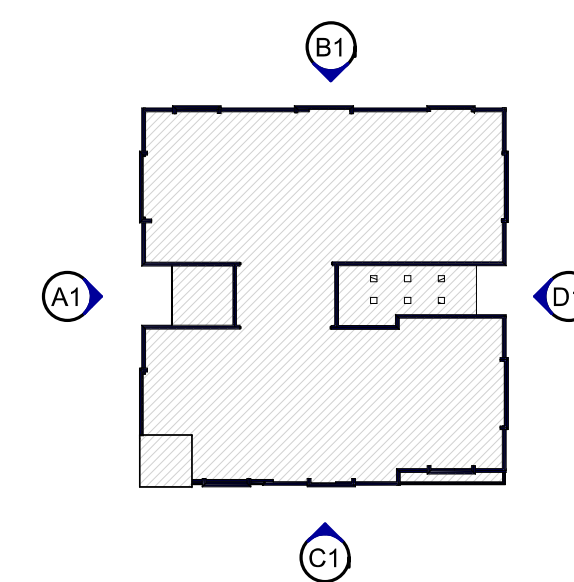
**C1** EXTERIOR ELEVATION - "B" SOUTH  
SCALE: 1/16" = 1'-0"



**B1** EXTERIOR ELEVATION - "B" NORTH  
SCALE: 1/16" = 1'-0"



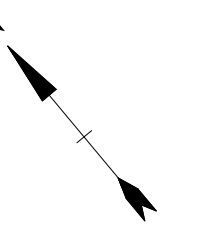
**D1** EXTERIOR ELEVATION "B" EAST  
SCALE: 1/16" = 1'-0"



**A2** KEY PLAN FOR A20.1  
SCALE: 1" = 80'-0"



**PERMIT DRAWINGS  
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SCALE IN FEET  
GRAPHIC SCALE

**Mill Plaza  
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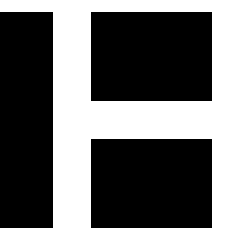
MARK	DATE	DESCRIPTION
	1/20/2021	PLANNING BOARD COMMENTS
	1/2/2020	GENERAL REVISIONS
PROJECT NO:		M1529-002
DATE:		5/28/2018
FILE:		
DRAWN BY:		ERP/AEW/SAA
CHECKED:		MDL
APPROVED:		MDL

EXTERIOR ELEVATIONS

SCALE: As indicated

**A20.1**

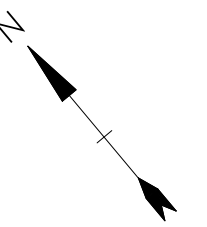




HARRIMAN  
ALBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



SCALE IN FEET  
0 8' 16' 24'  
GRAPHIC SCALE

**Mill Plaza  
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MARK	DATE	DESCRIPTION
	1/20/2021	PLANNING BOARD COMMENTS
	1/2/2020	GENERAL REVISIONS
PROJECT NO.	M1529-002	
DATE:	5/23/2018	
FILE:		
DRAWN BY:	ERP/AEW/SAA	
CHECKED:	MDL	
APPROVED:	MDL	

EXTERIOR ELEVATIONS

SCALE: As indicated

A20.2



**C1 EXTERIOR ELEVATION - "C" EAST**  
SCALE: 1/16" = 1'-0"



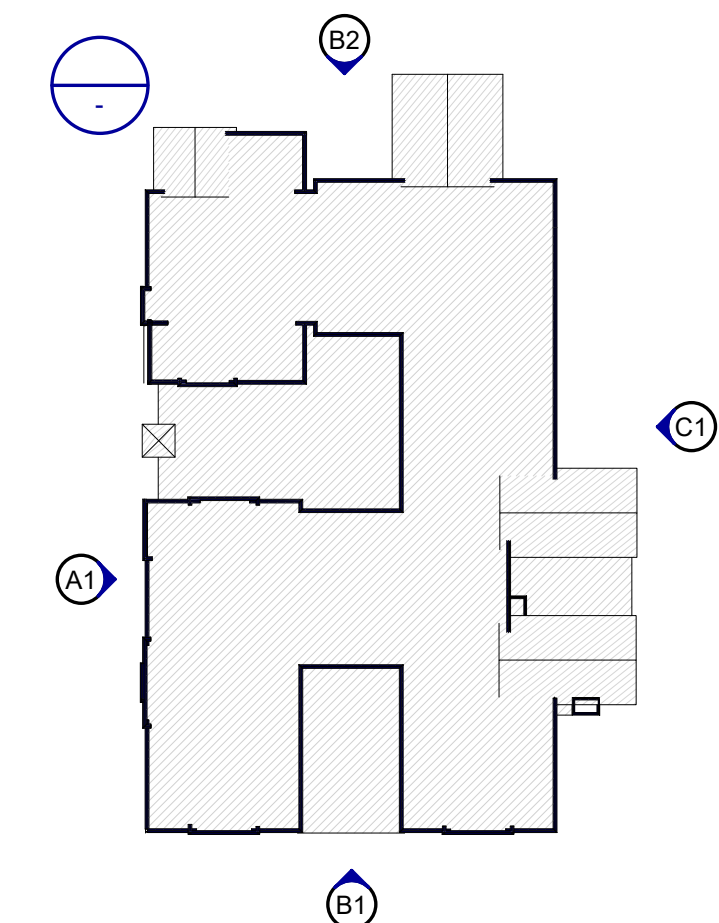
**B1 EXTERIOR ELEVATION - "C" SOUTH**  
SCALE: 1/16" = 1'-0"



**B2 EXTERIOR ELEVATION "C" NORTH**  
SCALE: 1/16" = 1'-0"



**A1 EXTERIOR ELEVATION - "C" WEST**  
SCALE: 1/16" = 1'-0"



**A2 KEY PLAN FOR A20.2**  
SCALE: 1" = 80'-0"





**D1** RENDERED ELEVATION - "B" WEST  
SCALE: 1/16" = 1'-0"



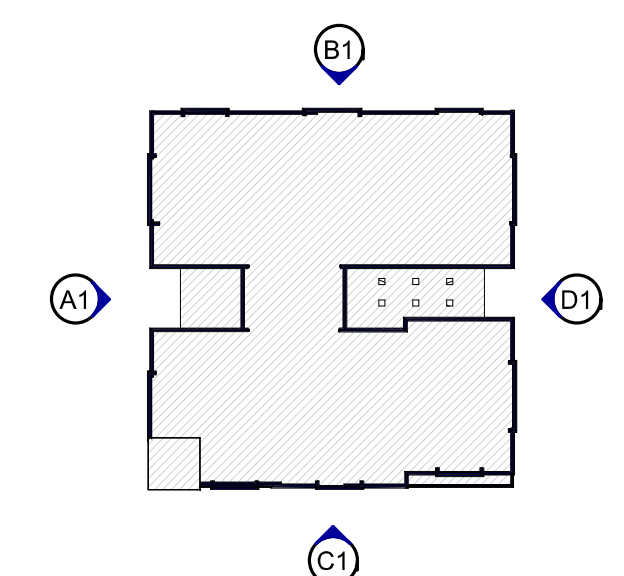
**D2** RENDERED ELEVATION - "B" NORTH  
SCALE: 1/16" = 1'-0"



**C1** RENDERED ELEVATION - "B" SOUTH  
SCALE: 1/16" = 1'-0"

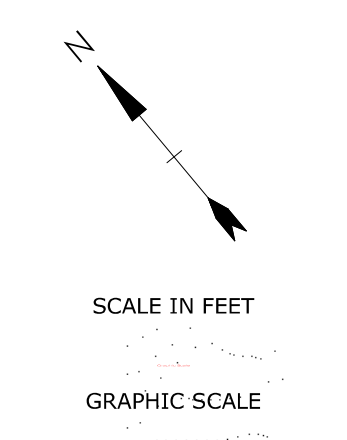


**C2** RENDERED ELEVATION "B" EAST  
SCALE: 1/16" = 1'-0"



**A2** KEY PLAN FOR A20.3  
SCALE: 1" = 80'-0"

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



**Mill Plaza  
Redevelopment**

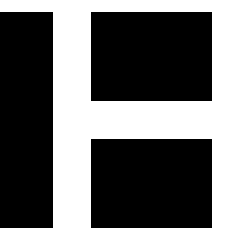
Colonial Durham  
Associates, LP

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Durham,  
New Hampshire 03824

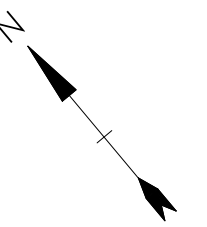
MARK	DATE	DESCRIPTION
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	1/2/2020	GENERAL REVISIONS
PROJECT NO: M1529-002		
DATE: 5/28/2018		
FILE:		
DRAWN BY: ERP/AEW/SAA		
CHECKED: MDL		
APPROVED: MDL		

RENDERINGS
SCALE: As indicated
<b>A20.3</b>





**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



SCALE IN FEET  
0 8' 16' 24'  
GRAPHIC SCALE

**Mill Plaza  
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MARK	DATE	DESCRIPTION
	1/20/2021	PLANNING BOARD COMMENTS
	1/2/2020	GENERAL REVISIONS
PROJECT NO.	M1529-002	
DATE:	5/23/2018	
FILE:		
DRAWN BY:	ERP/AEW/SAA	
CHECKED:	MDL	
APPROVED:	MDL	

EXTERIOR ELEVATIONS

SCALE: As indicated

A20.4



**C1 EXTERIOR ELEVATION - "C" EAST**  
SCALE: 1/16" = 1'-0"



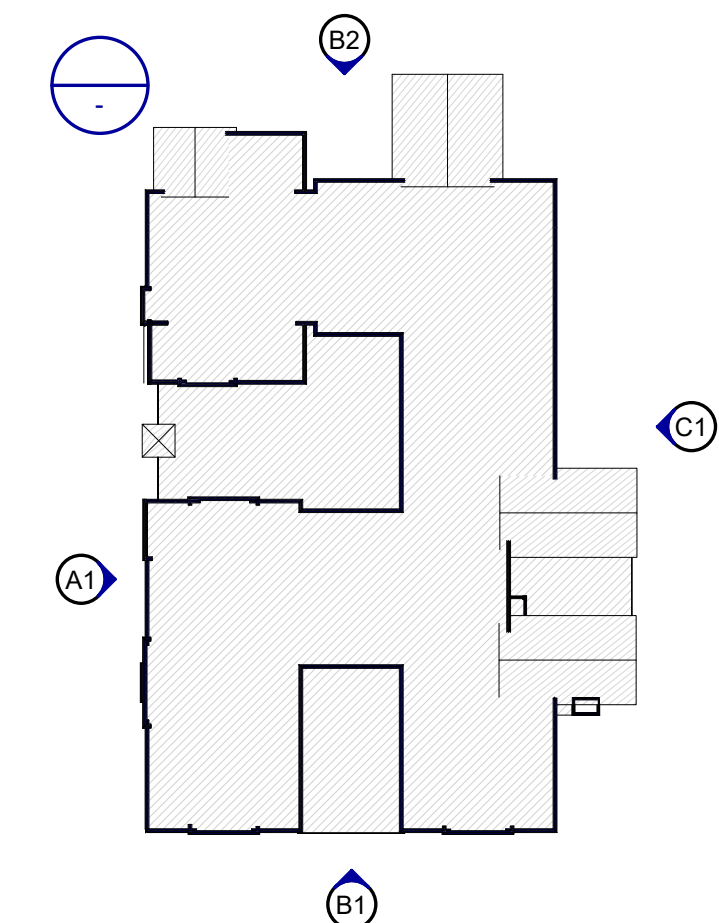
**B1 EXTERIOR ELEVATION - "C" SOUTH**  
SCALE: 1/16" = 1'-0"



**B2 EXTERIOR ELEVATION "C" NORTH**  
SCALE: 1/16" = 1'-0"

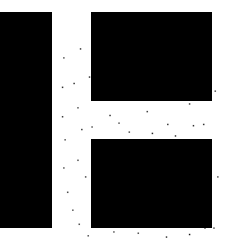


**A1 EXTERIOR ELEVATION - "C" WEST**  
SCALE: 1/16" = 1'-0"

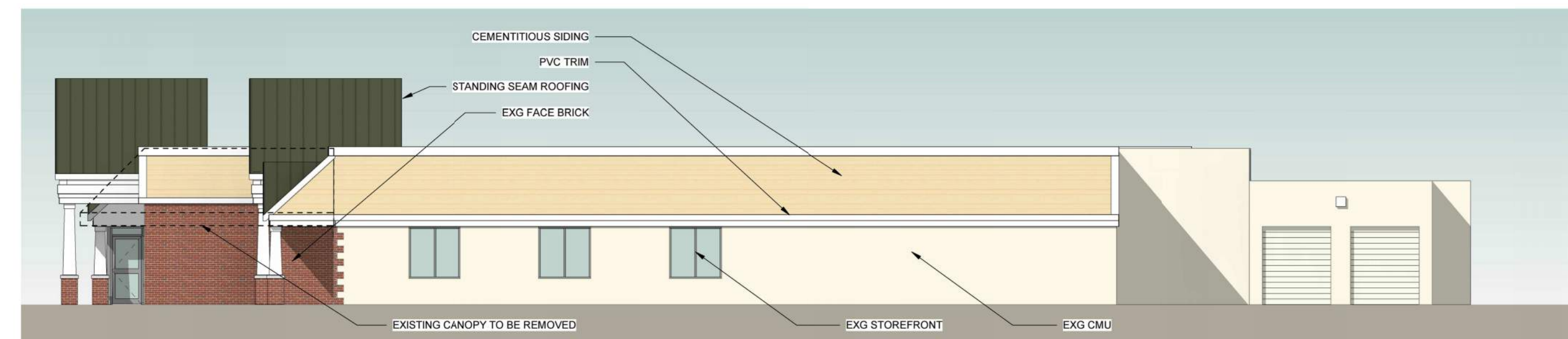


**A2 KEY PLAN FOR A20.2**  
SCALE: 1" = 80'-0"





**C1** RETAIL - LEFT ELEVATION  
SCALE: NO SCALE



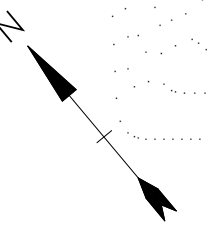
**B1** RETAIL - RIGHT ELEVATION  
SCALE: NO SCALE



**A1** RETAIL - FRONT ELEVATION  
SCALE: NO SCALE

NOTE: CONCEPTUAL ILLUSTRATION OF FACADE IMPROVEMENTS, SUBJECT TO DISCUSSION WITH HANNAFORD AND RITE AID.

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



SCALE IN FEET  
GRAPHIC SCALE

**Mill Plaza  
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1/20/2021	PLANNING BOARD COMMENTS	
1/2/2020	GENERAL REVISIONS	
MARK	DATE	DESCRIPTION
PROJECT NO:	16117	
DATE:	5/23/2018	
FILE:		
DRAWN BY:	DRE	
CHECKED:	MDL	
APPROVED:	MDL	

RETAIL ELEVATIONS

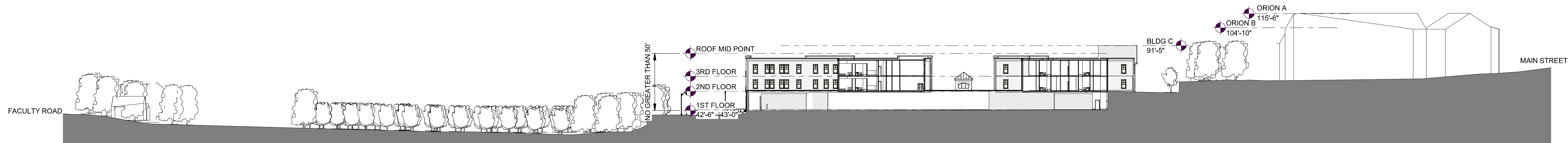
SCALE: NO SCALE

A20.5

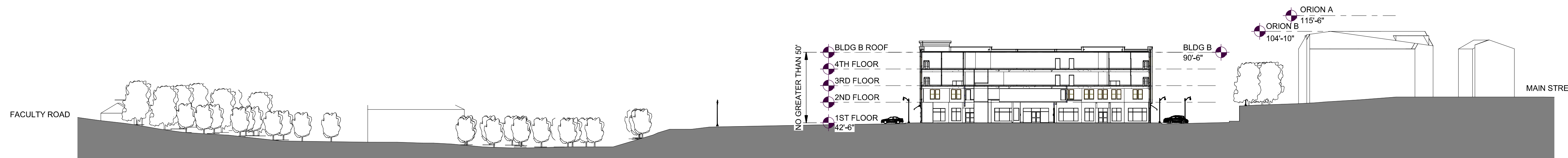




**C1 SOUTH SITE SECTION**  
SCALE: 1" = 30'-0"

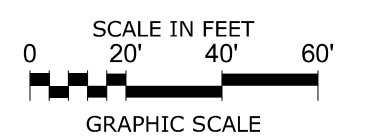
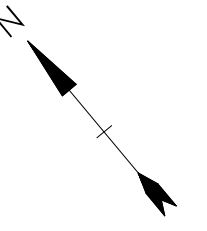


**B1 SITE SECTION THROUGH BUILDING C**  
SCALE: 1" = 40'-0"



**A1 SITE SECTION THROUGH BUILDING B**  
SCALE: 1" = 40'-0"

**PERMIT DRAWINGS**  
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MARK	DATE	DESCRIPTION
	1/20/2021	PLANNING BOARD COMMENTS
	1/2/2020	GENERAL REVISIONS
PROJECT NO: M1529-002		
DATE: 5/23/2018		
FILE:		
DRAWN BY: AEW		
CHECKED: MDL		
APPROVED: MDL		

SITE SECTIONS

SCALE: As indicated

A30.1



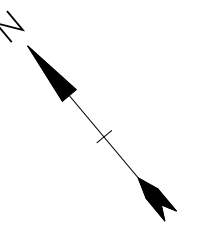


VIEW AT PEDESTRIAN CROSSING BETWEEN BUILDINGS A & B LOOKING EAST

Pict Date: 1/1/2020 2:28:47 PM



**PERMIT DRAWINGS  
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SCALE IN FEET  
GRAPHIC SCALE

**Mill Plaza  
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1/20/2021	PLANNING BOARD COMMENTS	
1/2/2020	GENERAL REVISIONS	
MARK	DATE	DESCRIPTION
PROJECT NO: M1529-002		
DATE: 5/23/2018		
DRAWN BY: ERP/AEW/SAA		
CHECKED: MDL		
APPROVED: MDL		

RENDERED PERSPECTIVE

SCALE:

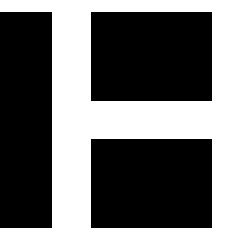
A40.1





VIEW AT PEDESTRIAN CROSSING BETWEEN BUILDINGS B & C LOOKING SOUTH

Pict Date: 1/1/2020 2:28:31 PM

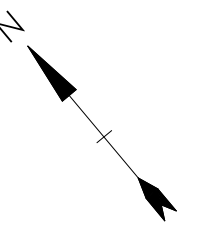


**HARRIMAN**

AUBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



SCALE IN FEET

GRAPHIC SCALE

**Mill Plaza  
Redevelopment**

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Associates, LP

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New Hampshire 03824

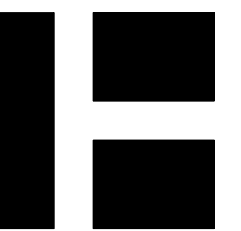
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1/2/2020	GENERAL REVISIONS	
MARK	DATE	DESCRIPTION
PROJECT NO:	M1529-002	
DATE:	5/23/2018	
FILE:		
DRAWN BY:	ERP/AEW/SAA	
CHECKED:	MDL	
APPROVED:	MDL	

RENDERED PERSPECTIVE

SCALE:

A40.2



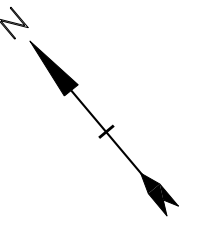


**HARRIMAN**

AUBURN PORTLAND PORTSMOUTH BOSTON

Harriman Project No. 16117

**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**

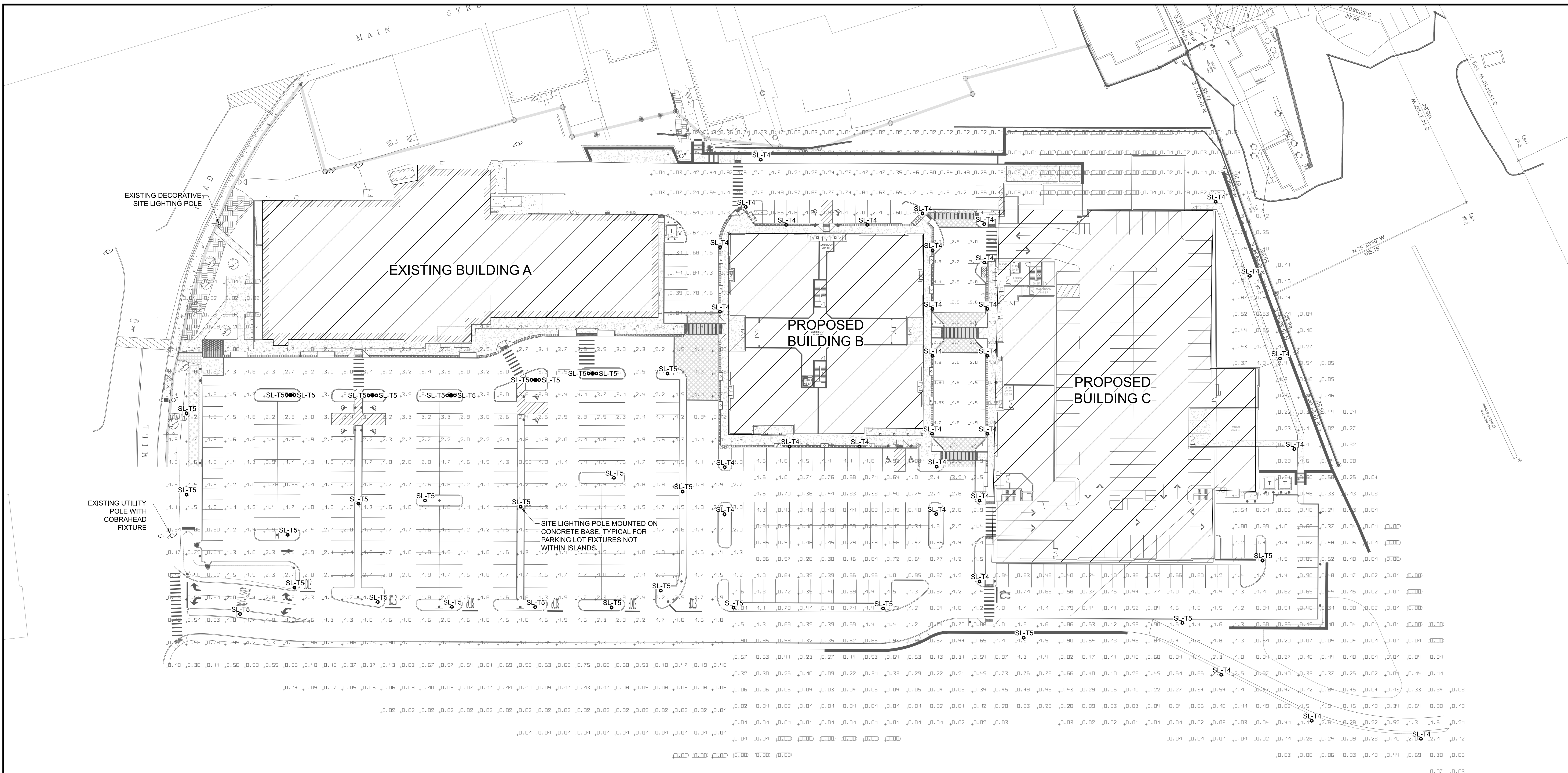


SCALE IN FEET  
0 40' 80'  
GRAPHIC SCALE

**Mill Plaza  
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Colonial Durham  
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New Hampshire 03824



**2 SITE LIGHTING PLAN**  
SCALE: 1" = 40'

LIGHTING FIXTURE SCHEDULE							
ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL HARDWARE LAMPS, HANGERS, FITTINGS, ETC. FOR A COMPLETE AND PROPER INSTALLATION							
TYPE	MANUFACTURER	CATALOG NO.	MTG.	VOLT	LAMPS		REMARKS/BALLAST INFORMATION
					NO.	WATT	
SL-T4	SITE LIGHT FIXTURE (LED TYPE IV ASYMMETRICAL DISTRIBUTION) - 12' ROUND DECORATIVE STEEL POLE						PROVIDE 12', 16 SHARP FLUTED STEEL POLE. POLE SHALL ACCEPT FOUR 1" CONDUITS. POLE COLOR SHALL MATCH FIXTURE COLOR. POLE SHALL BE RATED FOR FIXTURE EPA RATING WITH 100MPH WIND. 35 INPUT WATTS PER HEAD.
	LUMEC	MPTR-35W32LED4K4E4-277-DMG-FN1-BKTX	POLE	277	35	LED	
	APPROVED EQUAL	POLE: NORTH HAMPTON STYLE STAINLESS STEEL POST WITH BASE. SEE REMARKS.					
SITE LIGHT FIXTURE (LED TYPE V SYMMETRICAL DISTRIBUTION) - 18' ROUND DECORATIVE STEEL POLE							
SL-T5	LUMEC	MPTR-90W80LED4K4E5-277-DMG-FN1-BKTX	POLE	277	87	LED	PROVIDE 18', 16 SHARP FLUTED STEEL POLE. POLE SHALL ACCEPT FOUR 1" CONDUITS. POLE COLOR SHALL MATCH FIXTURE COLOR. POLE SHALL BE RATED FOR FIXTURE EPA RATING WITH 100MPH WIND. 87 INPUT WATTS PER HEAD.
	APPROVED EQUAL	POLE: NORTH HAMPTON STYLE STAINLESS STEEL POST WITH BASE. SEE REMARKS.					

**1 SITE LIGHTING FIXTURE SCHEDULE**  
SCALE: NO SCALE

3/10/2021	RESPONSE TO COMMENTS	
1/20/2021	PLANNING BOARD COMMENTS	
1/2/2020	GENERAL REVISIONS	
MARK	DATE	DESCRIPTION
PROJECT NO:	M1529-002	
DATE:	05/23/18	
FILE:		
DRAWN BY:	BSO	
CHECKED:	JWT	
APPROVED:	JWT	

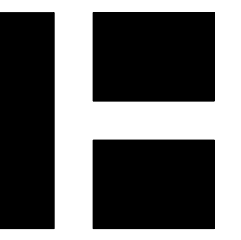
**ELECTRICAL SITE  
LIGHTING PLAN**

SCALE: AS SHOWN

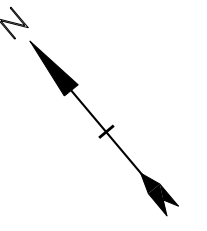
**ES10.1**

3m) By: \$(getvar, "loginname")





**PERMIT DRAWINGS  
NOT FOR CONSTRUCTION**



SCALE IN FEET  
0 40 80  
GRAPHIC SCALE

**Mill Plaza  
Redevelopment**

Colonial Durham  
Associates, LP

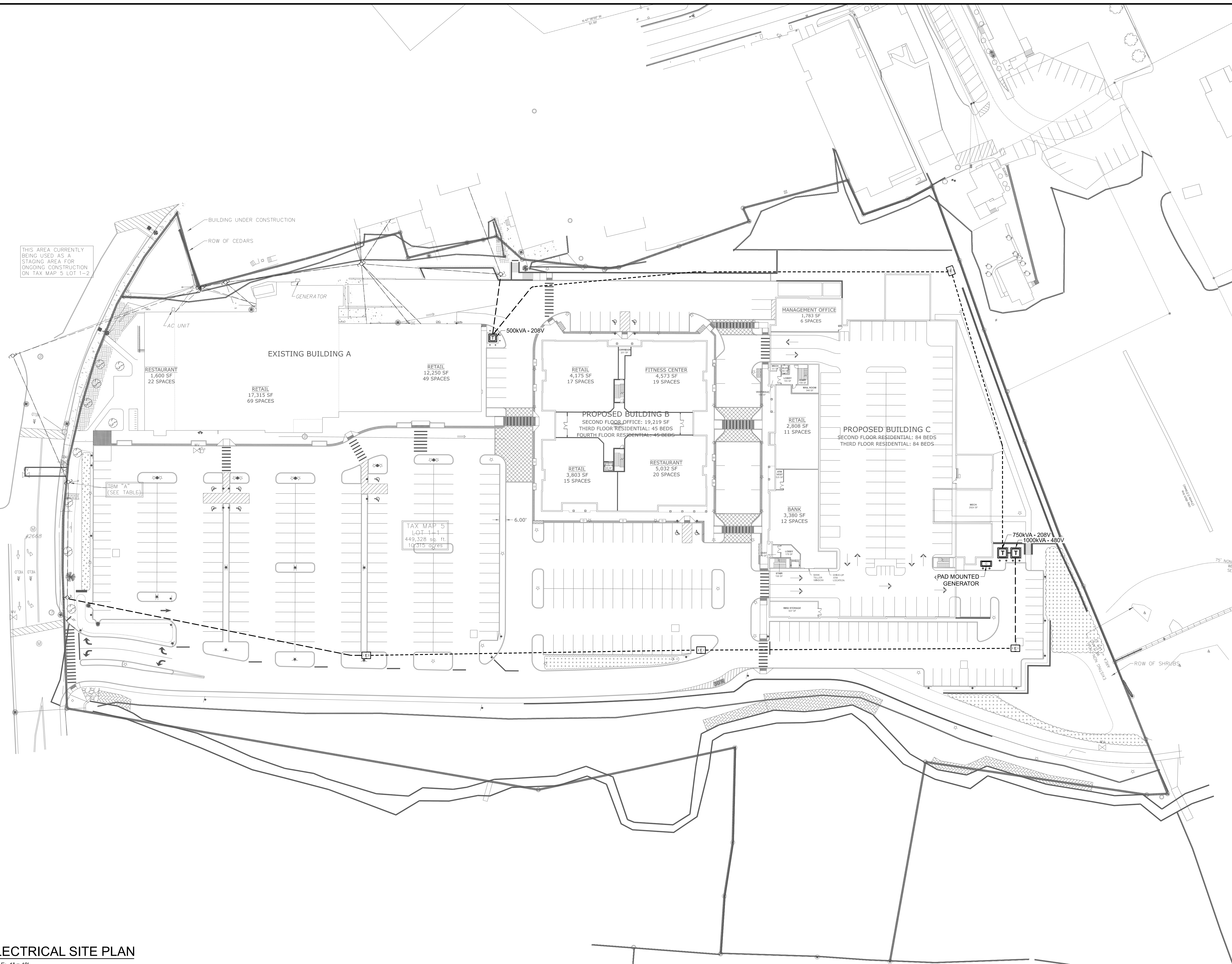
7 Mill Road, Unit L  
Durham,  
New Hampshire 03824

1/20/2021	PLANNING BOARD COMMENTS	
1/2/2020	GENERAL REVISIONS	
MARK	DATE	DESCRIPTION
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FILE:		
DRAWN BY:	JWT	
CHECKED:	JWT	
APPROVED:	JWT	

**ELECTRICAL  
SITE PLAN**

SCALE: AS SHOWN

**ES20.1**



THIS AREA CURRENTLY BEING USED AS A STAGING AREA FOR ONGOING CONSTRUCTION ON TAX MAP 5 LOT 1-2

IBM "A" (SEE TABLE)

TAX MAP 5  
LOT 1-1  
449,328 sq. ft.  
10,315 acres