

MAP 204, LOTS 1 & 2
SITE PLAN

SITE IMPROVEMENTS PLAN

121 TECHNOLOGY DRIVE
 DURHAM, NEW HAMPSHIRE

PREPARED FOR

R.J. KELLY COMPANY, INC.

55 CAMBRIDGE STREET
 BURLINGTON, MASSACHUSETTS 01803
 (781) 365-2416

RECORD OWNER

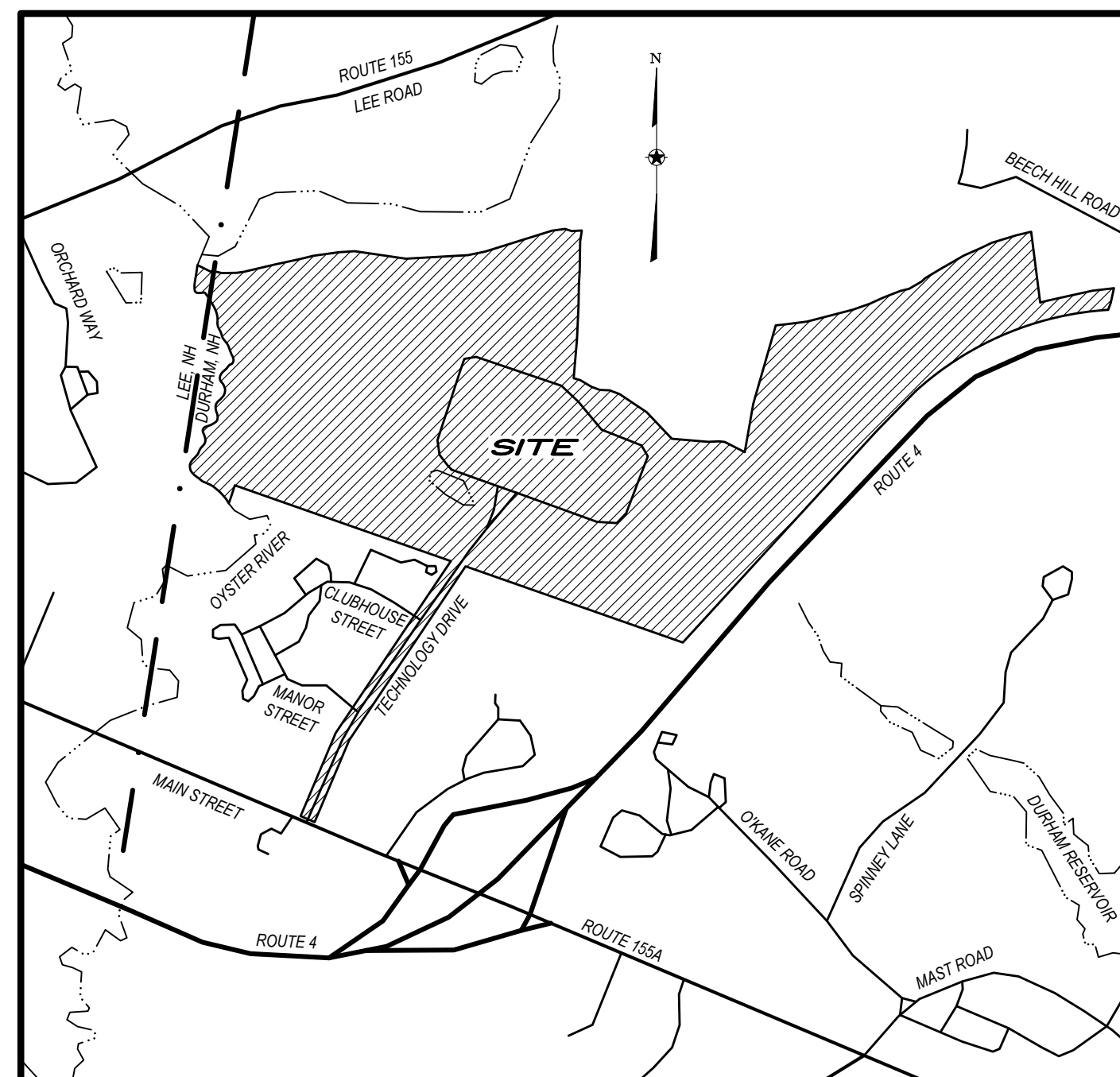
121 TECH OWNER, L.L.C.

55 CAMBRIDGE STREET
 BURLINGTON, MASSACHUSETTS 01803
 (781) 365-2416

30 JUNE 2023

REVISED
 28 JULY 2023

REVIEW ONLY



VICINITY PLAN
 SCALE: 1" = 1,000'

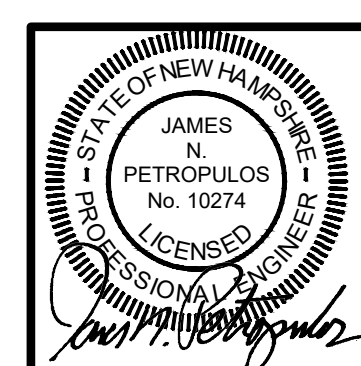
INDEX OF PLANS		
SHEET No.	TITLE	
1 OF 6	MASTER SITE PLAN	1" = 100'
2 OF 6	EXISTING CONDITIONS PLAN	1" = 40'
3 OF 6	SITE PLAN	1" = 40'
4 OF 6	STORMWATER MANAGEMENT & EROSION CONTROL PLAN	1" = 40'
5-6 OF 6	DETAIL SHEET	

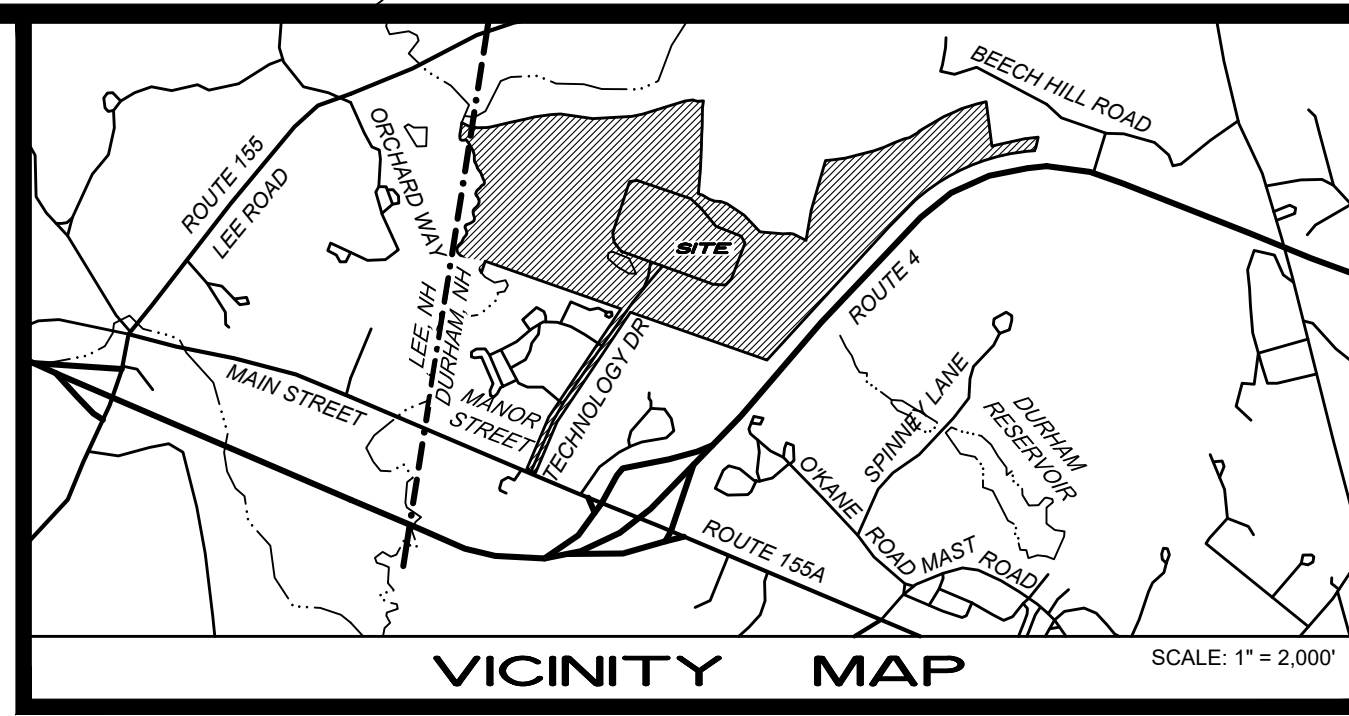
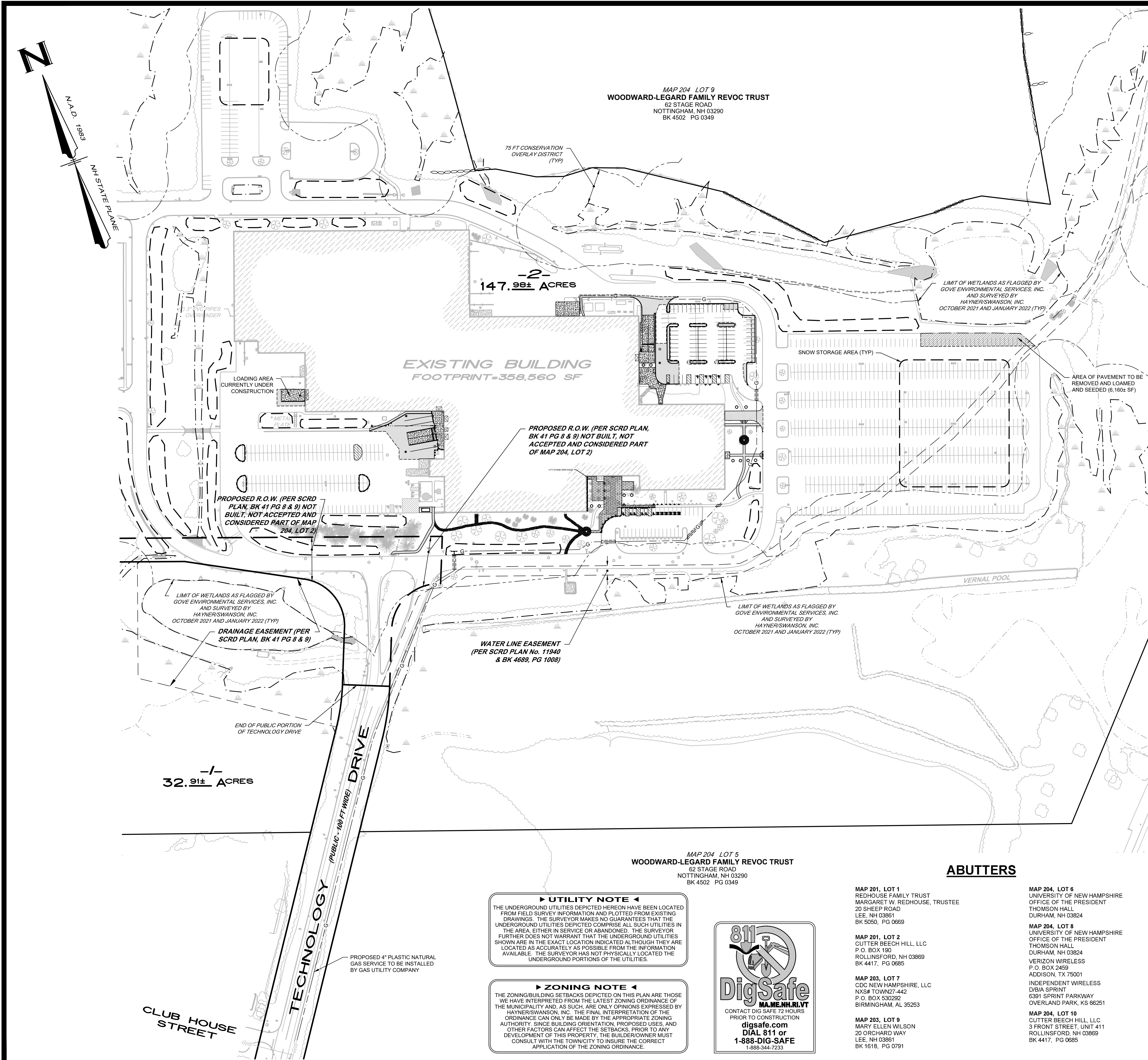
APPROVED	
DURHAM PLANNING BOARD	
CHAIRMAN _____	DATE _____
SECRETARY _____	DATE _____

 **HSI** Hayner/Swanson, Inc.

Civil Engineers/Land Surveyors
 3 Congress Street
 Nashua, NH 03062
 (603) 883-2057
 www.hayner-swanson.com

131 Middlesex Turnpike
 Burlington, MA 01803
 (781) 203-1501





- PLAN REFERENCES:**
- PLAN OF LAND, OWNER/APPLICANT: HARRIS GRAPHICS CORPORATION, ENGINEER: ECM, ERIC C. MITCHELL AND ASSOCIATES, INC., SCALE: 1" = 200' DATED: MARCH 20, 1991 WITH REVISIONS THRU 05/07/91. ON FILE AT SCRD: BK 41, PG 8 & 9
 - WATER LINE EASEMENT FOR: TOWN OF DURHAM, OVER LAND OF: LEXINGTON DURHAM LIMITED PARTNERSHIP, (fka PREFCO XXV LIMITED PARTNERSHIP) A CONNECTICUT LIMITED PARTNERSHIP, TAX MAP 9, LOT 10-4, 121 TECHNOLOGY DRIVE, DURHAM, NEW HAMPSHIRE, DATED: DECEMBER 8, 2017 AND PREPARED BY: DOUCET SURVEY, INC. ON FILE AT SCRD: PLAN No. 11940.

- NOTES:**
- TOTAL SITE AREA: MAP 204
 LOT 1: 32.91 ACRES
 LOT 2: 147.98 ACRES
 - BOUNDARY AND EASEMENT INFORMATION TAKEN FROM PLAN RECORDED IN SCRD BK 41, PG 8 & 9
 - PRESENT ZONING: OFFICE & RESEARCH AND LIGHT INDUSTRY (ORLI)
 MINIMUM LOT REQUIREMENTS:
 - LOT SIZE: 150,000 SF
 - FRONTAGE: 150 FT
 MINIMUM BUILDING SETBACKS:
 - FRONT YARD: 30 FT
 - SIDE YARD: 20 FT
 - REAR YARD: 20 FT
 - LOT NUMBERS REFER TO TOWN OF DURHAM ASSESSORS MAPS 201, 203 & 204.
 - PURPOSE OF PLAN:
 [A] TO AMEND THE PREVIOUS SITE PLAN TO PROPOSE SITE IMPROVEMENTS TO SUPPORT NEW TENANT SPACE IMPROVEMENTS. NO BUILDING ADDITIONS (EXCEPT CANOPIES) ARE PROPOSED.
 - THE SITE IS CURRENTLY SERVICED BY MUNICIPAL WATER AND SEWER, TELEPHONE, ELECTRIC AND ONSITE PROPANE.
 - MONUMENTS, WHERE REQUIRED, TO BE SET BY A LICENSED LAND SURVEYOR.
 - REQUIRED PARKING:

USE:	EXISTING:	PROPOSED:
1. WAREHOUSE: (1 SPACE/1,000 SF)	260,000 SF 260 SPACES	184,000 SF 184 SPACES
2. OFFICE/R&D: (1 SPACE/400 SF)	224,000 SF 560 SPACES	224,000 SF 560 SPACES
3. MANUFACTURING: (1 SPACE/400 SF)	76,000 SF 190 SPACES	-
TOTAL PARKING REQUIRED	820 SPACES	937 SPACES
 - PARKING PROVIDED:

	EXISTING:	PROPOSED:
8. LOADING:	18 SPACES	23 SPACES
9. OPEN SPACE (LOT 2):	50% EXISTING: 16.55% PROPOSED: 16.45%	1,465 SPACES PROPOSED: 1,394 SPACES
 - ALL OF MAP 204 LOT 2 AND THE MAJORITY OF MAP 204 LOT 1 ARE NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA, HOWEVER, A PORTION OF MAP 204 LOT 2 (ALONG THE OYSTER RIVER) IS LOCATED WITHIN ZONE 'A' AS DETERMINED FROM THE FLOOD INSURANCE STUDY (FIRM), STRAFFORD COUNTY, TOWN OF DURHAM, NEW HAMPSHIRE, COMMUNITY No. 330146, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP NUMBERS: 3301700314E AND 3301700315E, DATED: SEPTEMBER 30, 2015.
 - EXTERIOR LIGHTING SHALL BE DOWNCAST AND DIRECTED ONTO THE SITE AND SHALL CONFORM WITH ALL APPLICABLE TOWN OF DURHAM REGULATIONS.
 - LANDSCAPING SHALL MEET TOWN OF DURHAM STANDARDS FOR TYPE AND SIZE OF PLANTINGS.
 - SITE PERMITS: N/A
 - ALL ROAD (INCLUDING PARKING LOT) AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF DURHAM PUBLIC WORKS DEPARTMENT REGULATIONS.
 - PRESENT OWNER OF RECORD:
MAP 204, LOTS 1 & 2
121 TECH OWNER, LLC
 55 CAMBRIDGE STREET
 BURLINGTON, MA 01803
 BK. 4967 PG. 908

- TOWN OF DURHAM CONTACTS**
- PLANNING DEPARTMENT**
 DURHAM PLANNING DEPARTMENT
 8 NEW MARKET ROAD
 DURHAM, NH 03824-2888
 ATT: MICHAEL BEHRENDT
 (603) 868-6064
 - ENGINEERING DEPARTMENT**
 DURHAM DEPT. OF PUBLIC WORKS / ENGINEERING
 10 STONE QUARRY DRIVE
 DURHAM, NH 03824
 ATT: RICHARD REINE, DIRECTOR
 (603) 868-5578
 - FIRE DEPARTMENT**
 DURHAM FIRE DEPARTMENT
 51 COLLEGE ROAD
 DURHAM, NH 03824
 ATT: CHIEF DAVID EMANUEL
 (603) 868-5531
 - CODE ENFORCEMENT OFFICE:**
 DURHAM CODE ENFORCEMENT
 8 NEWMARKET ROAD
 DURHAM, NH 03824-2888
 ATT: AUDREY CLINE,
 BUILDING INSPECTOR
 (603) 868-6064
- UTILITY COMPANY CONTACTS**
- WATER/SEWER:**
 DURHAM DEPT. OF PUBLIC WORKS
 10 STONE QUARRY DRIVE
 DURHAM, NH 03824
 ATT: RICHARD REINE, DIRECTOR
 (603) 868-5578
 - NATURAL GAS:**
 UNILIL
 30 ENERGY WAY
 EXETER, NH 03833
 (603) 379-3837
 - TELEPHONE:**
 CONSOLIDATED COMMUNICATIONS,
 1 GERRY AVENUE
 NEWMARKET, NH 03857
 (844) 968-7224
 - POWER:**
 EVERSOURCE
 74 OLD DOVER ROAD
 ROCHESTER, NH 03867
 (800) 662-7784

ABUTTERS

- MAP 201, LOT 1**
 REDHOUSE FAMILY TRUST
 MARGARET W. REDHOUSE, TRUSTEE
 20 SHEEP ROAD
 LEE, NH 03861
 BK 5050, PG 0689
- MAP 201, LOT 2**
 CUTTER BEECH HILL, LLC
 P.O. BOX 190
 ROLLINSFORD, NH 03869
 BK 4417, PG 0685
- MAP 201, LOT 7**
 CDC NEW HAMPSHIRE, LLC
 NXS# TOWN27-442
 P.O. BOX 530292
 BIRMINGHAM, AL 35253
- MAP 203, LOT 9**
 MARY ELLEN WILSON
 20 ORCHARD WAY
 LEE, NH 03861
 BK 1618, PG 0791
- MAP 204, LOT 6**
 UNIVERSITY OF NEW HAMPSHIRE
 OFFICE OF THE PRESIDENT
 THOMSON HALL
 DURHAM, NH 03824
- MAP 204, LOT 8**
 UNIVERSITY OF NEW HAMPSHIRE
 OFFICE OF THE PRESIDENT
 THOMSON HALL
 DURHAM, NH 03824
 VERIZON WIRELESS
 P.O. BOX 2459
 ADDISON, TX 75001
 INDEPENDENT WIRELESS
 D/B/A SPRINT
 6391 SPRINT PARKWAY
 OVERLAND PARK, KS 66251
- MAP 204, LOT 10**
 CUTTER BEECH HILL, LLC
 3 FRONT STREET, UNIT 411
 ROLLINSFORD, NH 03869
 BK 4417, PG 0685

REVIEW ONLY

PREPARED FOR:
R.J. KELLY COMPANY, INC.
 55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

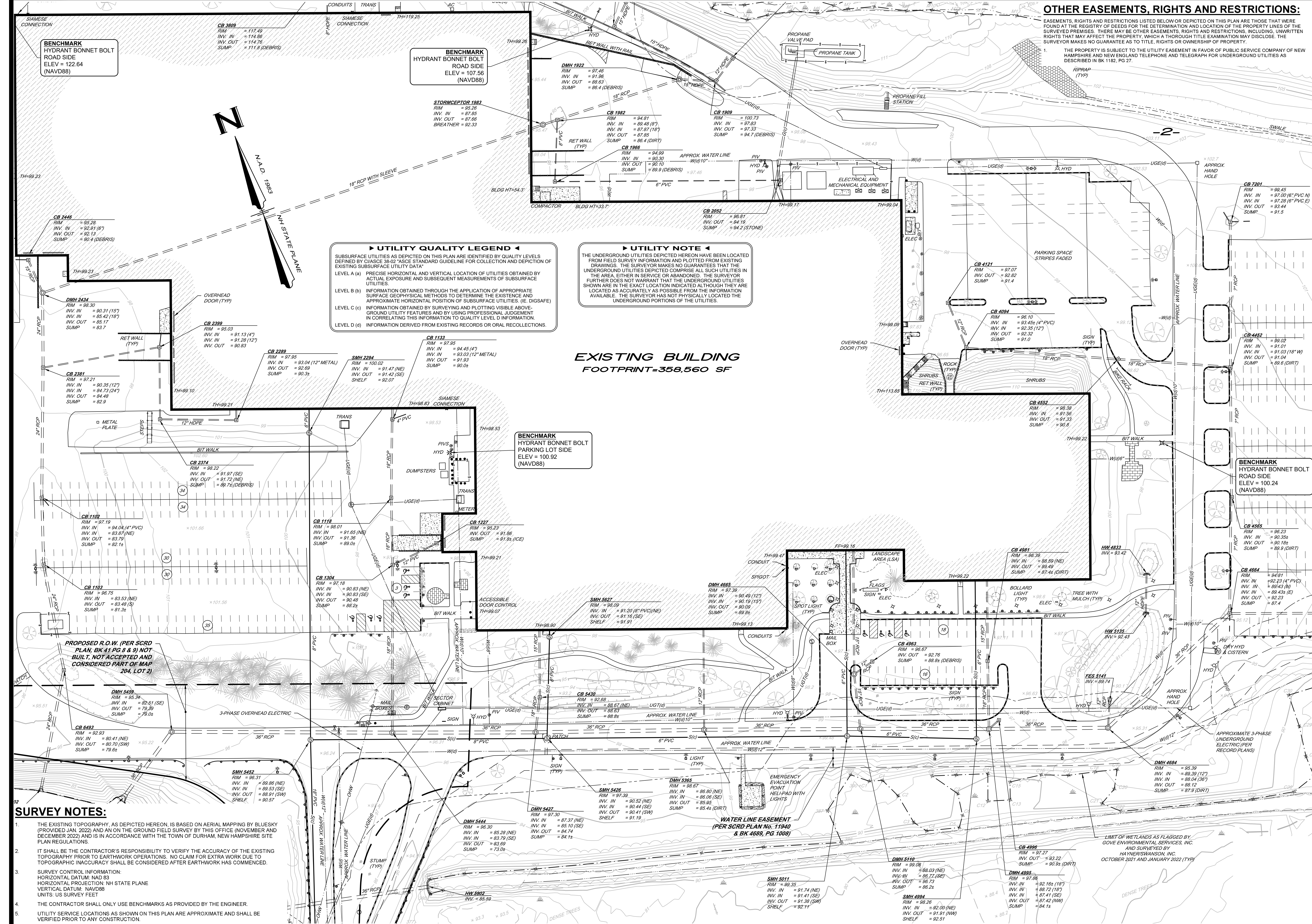
RECORD OWNER:
121 TECH OWNER, L.L.C.
 55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

MASTER SITE PLAN (MAP 204, LOTS 1 & 2)
SITE IMPROVEMENTS PLAN
 121 TECHNOLOGY DRIVE
 DURHAM, NEW HAMPSHIRE

HSI Hayner/Swanson, Inc.
 Civil Engineers/Land Surveyors
 3 Congress Street
 North Andover, MA 01845
 (603) 862-2057
 www.haynerswanson.com

JAMES N. PETROPULOS
 No. 102714
 LICENSED PROFESSIONAL SURVEYOR
 STATE OF NEW HAMPSHIRE

FIELD BOOK: 1986, 1289 DWG. LOC.: 1500019832.0001.USA2.EB1
 DWG. 5832EB1-PORT Scale: 1" = 100'
 1 OF 6 5832-EB1 Date: 150 JUNE 2023
 Sheet: P.C. Number



OTHER EASEMENTS, RIGHTS AND RESTRICTIONS:
 EASEMENTS, RIGHTS AND RESTRICTIONS LISTED BELOW OR DEPICTED ON THIS PLAN ARE THOSE THAT WERE FOUND AT THE REISTRY OF DEEDS FOR THE DETERMINATION AND LOCATION OF THE PROPERTY LINES OF THE SURVEYED PREMISES. THERE MAY BE OTHER EASEMENTS, RIGHTS AND RESTRICTIONS, INCLUDING, UNWRITTEN RIGHTS THAT MAY AFFECT THE PROPERTY, WHICH A THOROUGH TITLE EXAMINATION MAY DISCLOSE. THE SURVEYOR MAKES NO GUARANTEE AS TO TITLE, RIGHTS OR OWNERSHIP OF PROPERTY.
 1. THE PROPERTY IS SUBJECT TO THE UTILITY EASEMENT IN FAVOR OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE AND NEW ENGLAND TELEPHONE AND TELEGRAPH FOR UNDERGROUND UTILITIES AS DESCRIBED IN BK 1182, PG 27.

UTILITY QUALITY LEGEND
 SUBSURFACE UTILITIES AS DEPICTED ON THIS PLAN ARE IDENTIFIED BY QUALITY LEVELS DEFINED BY CIASCE 38-02 "ASCE STANDARD GUIDELINE FOR COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
 LEVEL A (a) - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENTS OF SUBSURFACE UTILITIES.
 LEVEL B (b) - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. (IE DIGSAFE)
 LEVEL C (c) - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.
 LEVEL D (d) - INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

UTILITY NOTE
 THE UNDERGROUND UTILITIES DEPICTED HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND PLOTTED FROM EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND PORTIONS OF THE UTILITIES.

**EXISTING BUILDING
 FOOTPRINT=358.560 SF**

**BENCHMARK
 HYDRANT BONNET BOLT
 ROAD SIDE
 ELEV = 122.64
 (NAVD88)**

**BENCHMARK
 HYDRANT BONNET BOLT
 ROAD SIDE
 ELEV = 107.56
 (NAVD88)**

**BENCHMARK
 HYDRANT BONNET BOLT
 PARKING LOT SIDE
 ELEV = 100.92
 (NAVD88)**

**BENCHMARK
 HYDRANT BONNET BOLT
 ROAD SIDE
 ELEV = 100.24
 (NAVD88)**

SURVEY NOTES:

1. THE EXISTING TOPOGRAPHY, AS DEPICTED HEREON, IS BASED ON AERIAL MAPPING BY BLUESKY (PROVIDED JAN. 2022) AND AN ON THE GROUND FIELD SURVEY BY THIS OFFICE (NOVEMBER AND DECEMBER 2022) AND IS IN ACCORDANCE WITH THE TOWN OF DURHAM, NEW HAMPSHIRE SITE PLAN REGULATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACCURACY OF THE EXISTING TOPOGRAPHY PRIOR TO EARTHWORK OPERATIONS. NO CLAIM FOR EXTRA WORK DUE TO TOPOGRAPHIC INACCURACY SHALL BE CONSIDERED AFTER EARTHWORK HAS COMMENCED.
3. SURVEY CONTROL INFORMATION:
 HORIZONTAL DATUM: NAD 83
 HORIZONTAL PROJECTION: NH STATE PLANE
 VERTICAL DATUM: NAVD88
 UNITS: US SURVEY FEET
4. THE CONTRACTOR SHALL ONLY USE BENCHMARKS AS PROVIDED BY THE ENGINEER.
5. UTILITY SERVICE LOCATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO ANY CONSTRUCTION.

NO.	DATE	REVISION
1	07/28/23	ADDRESS DOWN COMMENTS

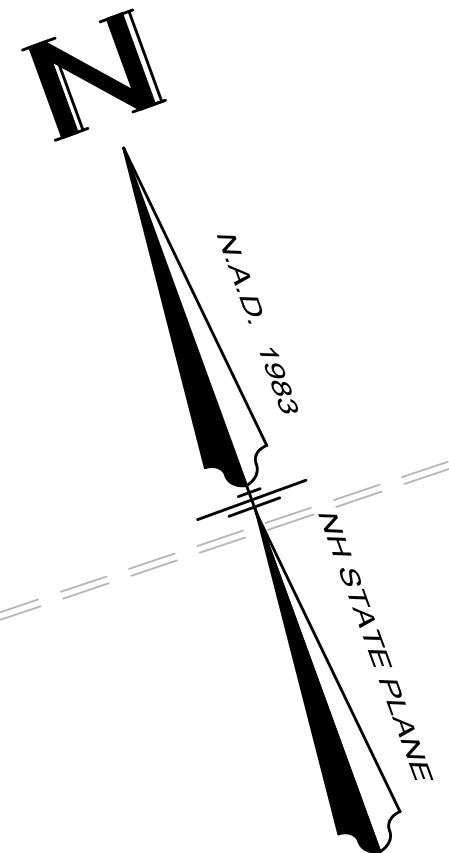
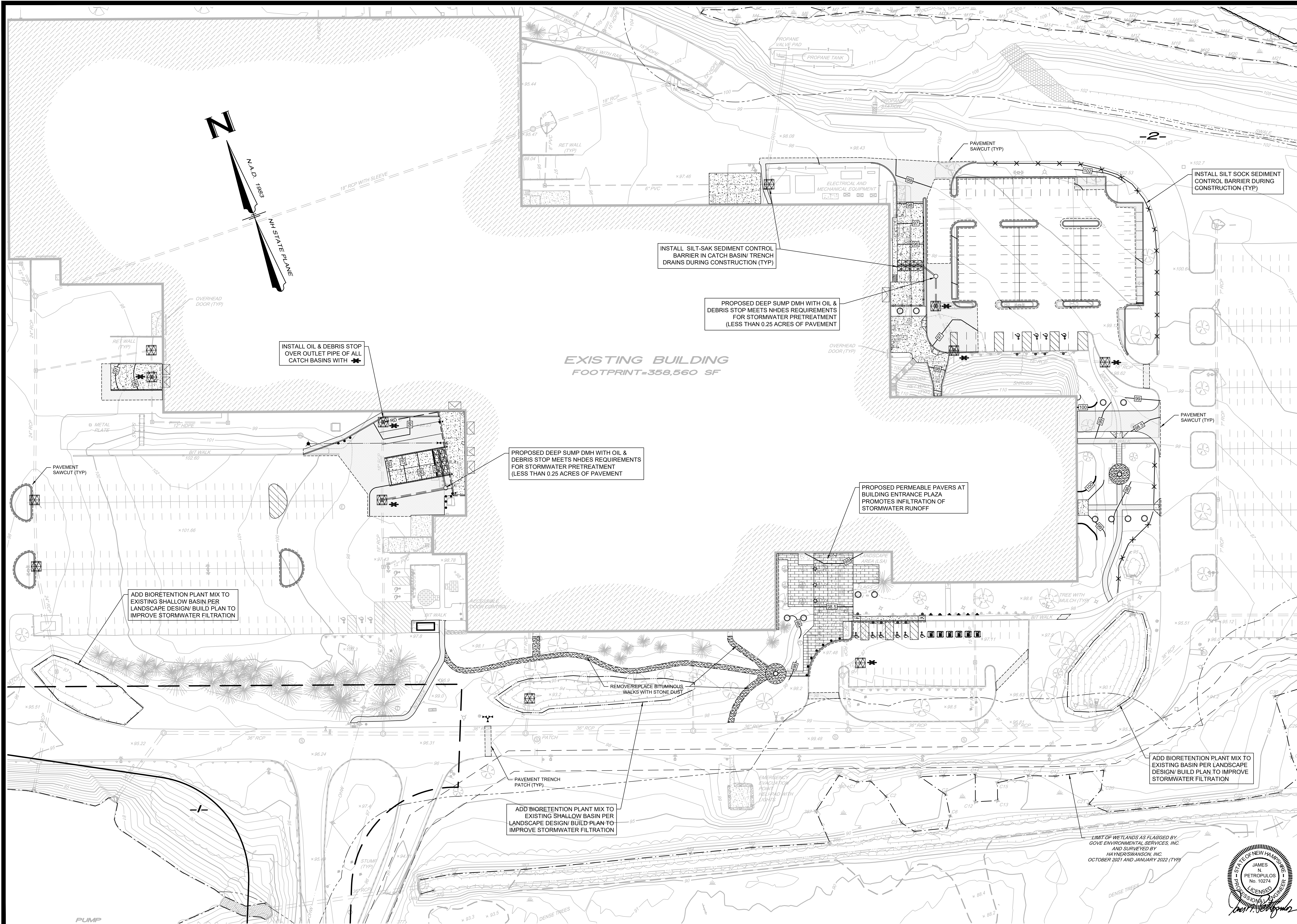
PREPARED FOR:
R.J. KELLY COMPANY, INC.
 55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

RECORD OWNER:
121 TECH OWNER, L.L.C.
 121 TECHNOLOGY DRIVE BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

EXISTING CONDITIONS PLAN
 (MAP 204, LOTS 1 & 2)
SITE IMPROVEMENTS PLAN
 121 TECHNOLOGY DRIVE
 DURHAM, NEW HAMPSHIRE

HSI Hayner/Swanson, Inc.
 3 Coopers
 Civil Engineers/Land Surveyors
 100 North Main Street
 Burlington, MA 01803
 (603) 862-0257
 www.haynerswanson.com

FIELD BOOK: 1986, 1289 DWG. LOC.: J-15000\1983\DWG\USA2 EB1
 DWG. 5832EB1-EC41 Scale 1" = 40'
 2 OF 6 5832-EB1 Date 130 JUNE 2023
 Sheet P.C. Number



EXISTING BUILDING
FOOTPRINT=358,560 SF

INSTALL OIL & DEBRIS STOP OVER OUTLET PIPE OF ALL CATCH BASINS WITH

INSTALL SILT-SACK SEDIMENT CONTROL BARRIER IN CATCH BASIN TRENCH DRAINS DURING CONSTRUCTION (TYP)

PROPOSED DEEP SUMP DMH WITH OIL & DEBRIS STOP MEETS NHDES REQUIREMENTS FOR STORMWATER PRETREATMENT (LESS THAN 0.25 ACRES OF PAVEMENT)

PROPOSED DEEP SUMP DMH WITH OIL & DEBRIS STOP MEETS NHDES REQUIREMENTS FOR STORMWATER PRETREATMENT (LESS THAN 0.25 ACRES OF PAVEMENT)

PROPOSED PERMEABLE PAVERS AT BUILDING ENTRANCE PLAZA PROMOTES INFILTRATION OF STORMWATER RUNOFF

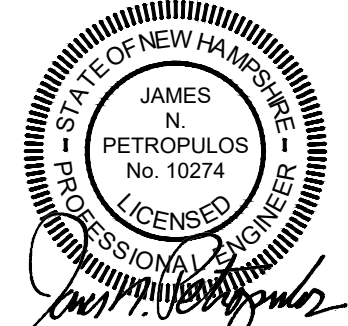
ADD BIORETENTION PLANT MIX TO EXISTING SHALLOW BASIN PER LANDSCAPE DESIGN/ BUILD PLAN TO IMPROVE STORMWATER FILTRATION

REMOVE/REPLACE BITUMINOUS WALKS WITH STONE DUST

ADD BIORETENTION PLANT MIX TO EXISTING SHALLOW BASIN PER LANDSCAPE DESIGN/ BUILD PLAN TO IMPROVE STORMWATER FILTRATION

ADD BIORETENTION PLANT MIX TO EXISTING SHALLOW BASIN PER LANDSCAPE DESIGN/ BUILD PLAN TO IMPROVE STORMWATER FILTRATION

LIMIT OF WETLANDS AS FLAGGED BY GOVE ENVIRONMENTAL SERVICES, INC. AND SURVEYED BY HAYNER/SWANSON, INC. OCTOBER 2021 AND JANUARY 2022 (TYP)



REVIEW ONLY			
NO.	DATE	REVISION	BY
1	07/28/23	ADDRESS DOWN COMMENTS	
40			
40	1/21/22	1/21/22	1/21/22

PREPARED FOR:
R.J. KELLY COMPANY, INC.
55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

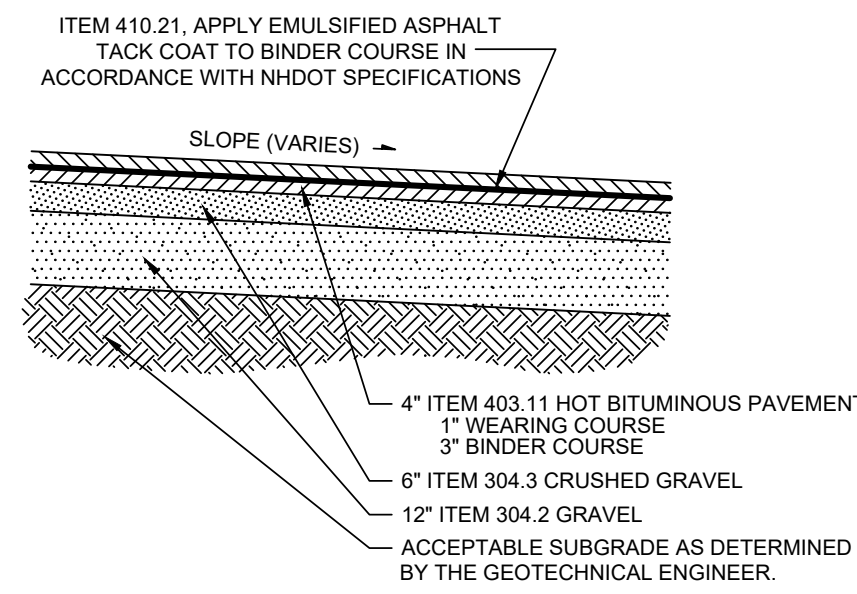
RECORD OWNER:
121 TECH OWNER, L.L.C.
55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

STORMWATER MANAGEMENT & EROSION CONTROL PLAN (MAP 204, LOTS 1 & 2)
SITE IMPROVEMENTS PLAN
121 TECHNOLOGY DRIVE
DURHAM, NEW HAMPSHIRE

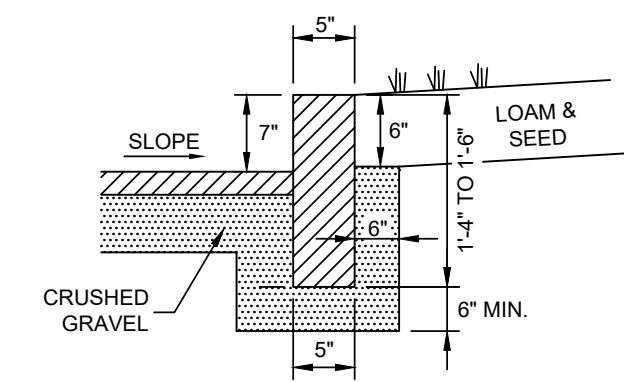
HSI Hayner/Swanson, Inc.
Civil Engineers/Land Surveyors
3 Cowardin Road
North Andover, MA 01845
(978) 853-2057
www.haynerswanson.com

JAMES N. PETROPOULOS
No. 10274
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW HAMPSHIRE

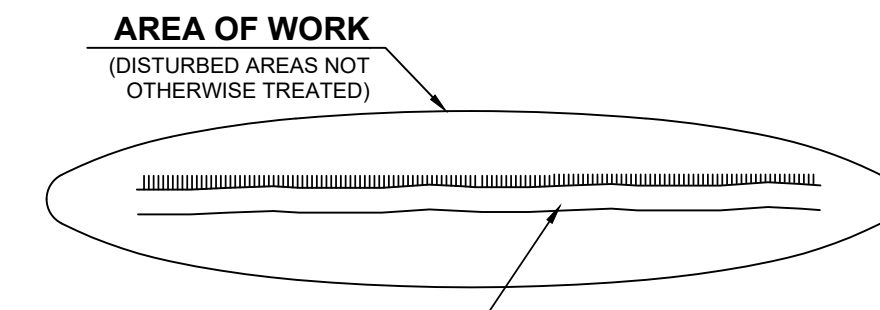
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DWG. NO.: 5832-EB1 Date: 06/15/2023 Scale: 1" = 40'
4 OF 6 SHEET NUMBER 130 JUNE 2023



HEAVY DUTY TYPICAL PAVEMENT SECTION
NOT TO SCALE



STRAIGHT OR CURVED GRANITE CURB
(ITEM 609.1 OR 609.2-MODIFIED)
NOT TO SCALE

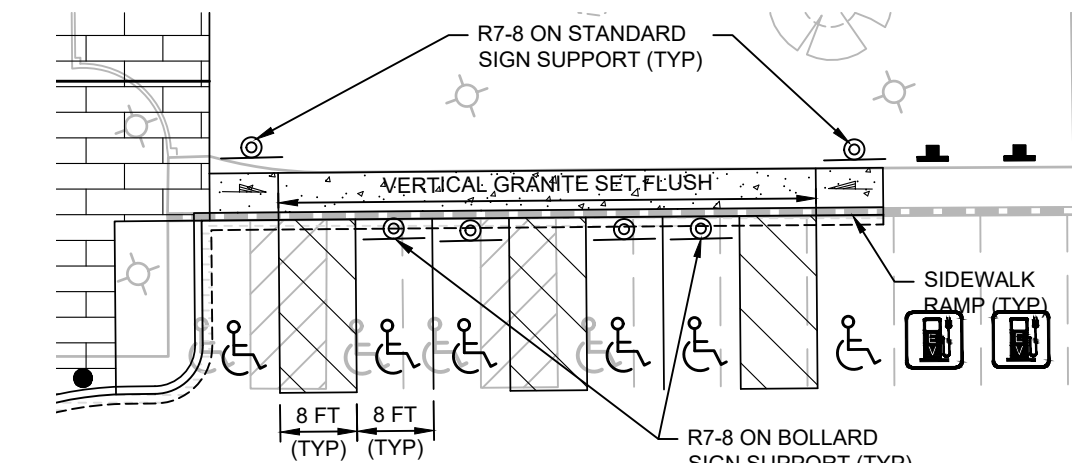


NHDOT ITEM	DESCRIPTION
641.06	6" LOAM LIMESTONE
642	FERTILIZER
643.11	SLOPE SEED TYPE 44
644.44	PARK SEED TYPE 15 (SEE EROSION CONTROL PLAN FOR SEED LOCATION)
OR 644.15	MULCH
645.1	MULCH 3 TONS/ACRE

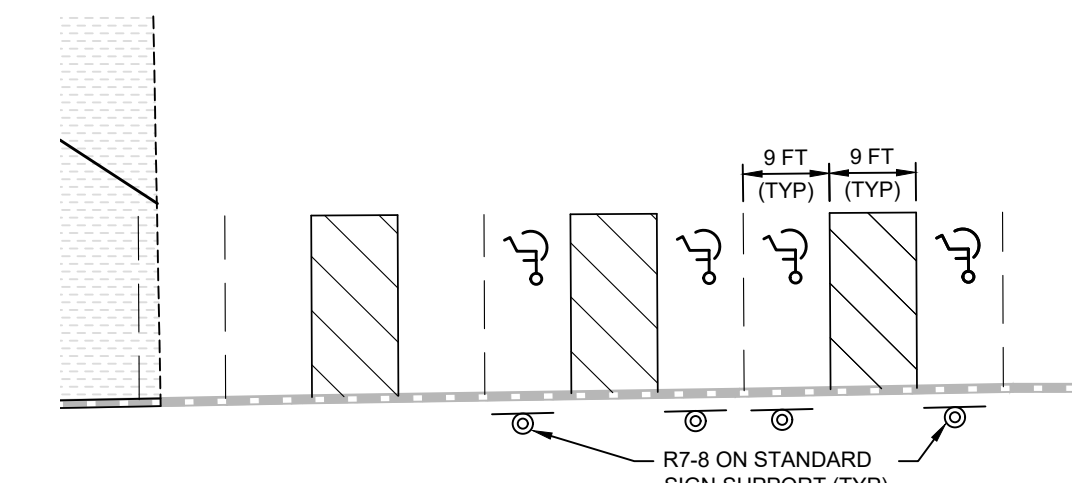
APPLICATION RATES
SEED: 80 LB./ACRE
FERTILIZER: 20 LB./1000 S.F. (10-10-10)
LIMESTONE: (PER NHDOT)
MULCH: 3 TONS/ACRE

LOAM AND SEED DETAIL
NOT TO SCALE

TEXT SEE MUTCD FOR TEXT DIMENSIONS	IDENTIFICATION NUMBER	SIZE WIDTH/HEIGHT
	TEXT DIMENSIONS	
	R7-8 (VAN MODIFIED)	12" x 18"
SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS		

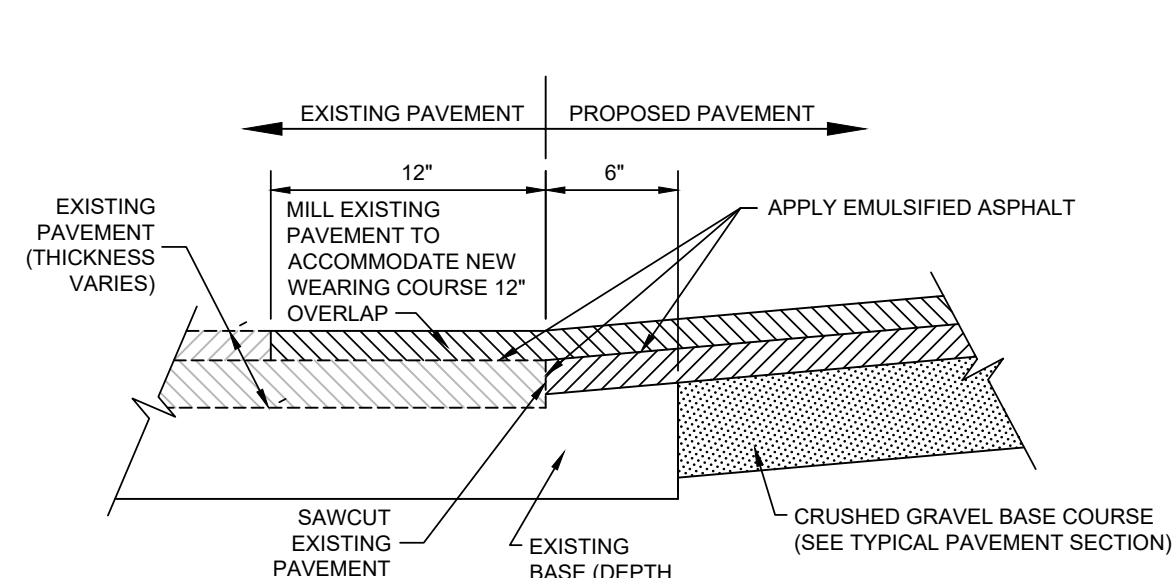


FRONT RIGHT ACCESSIBLE PARKING AREA DETAIL
SCALE: 1" = 20'

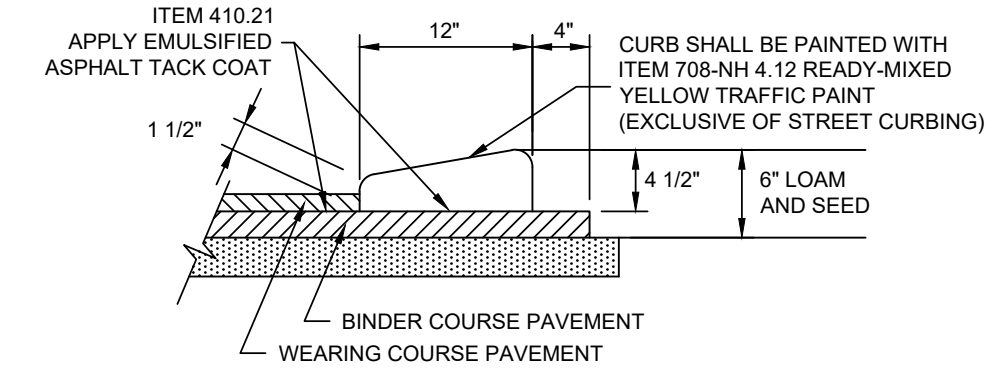


REAR ACCESSIBLE PARKING AREA DETAIL
SCALE: 1" = 20'

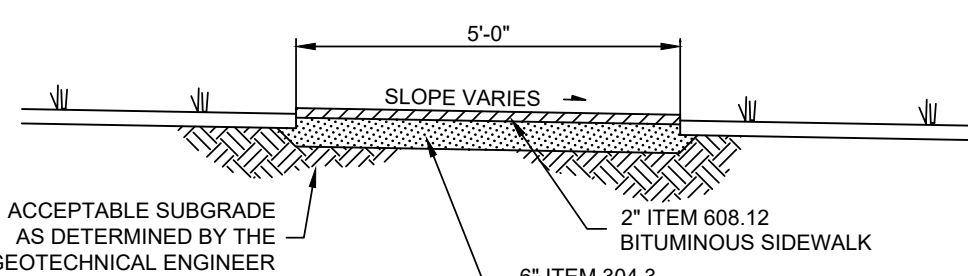
NOTE
GRADES IN PROPOSED ACCESSIBLE PARKING SPACES AND ACCESSIBLE AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION. CONTRACTOR TO VERIFY IN THE FIELD.



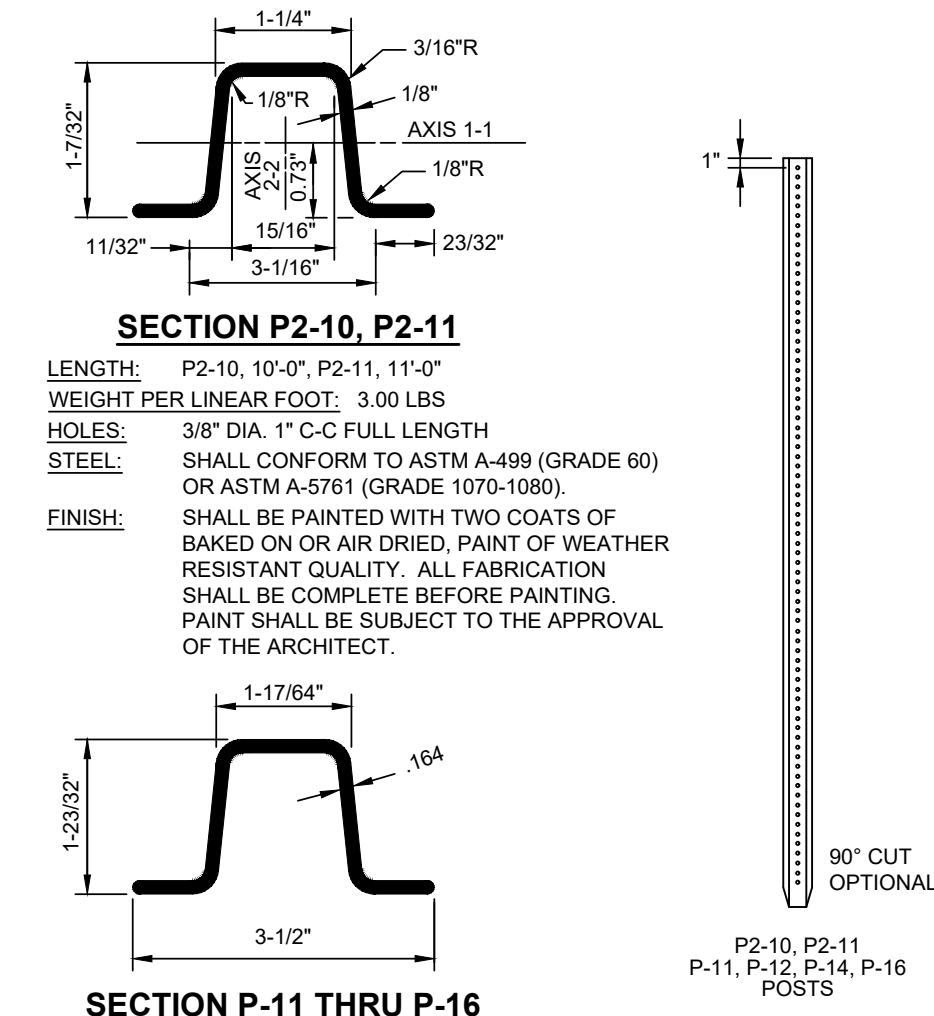
SAWCUT PAVEMENT DETAIL
NOT TO SCALE



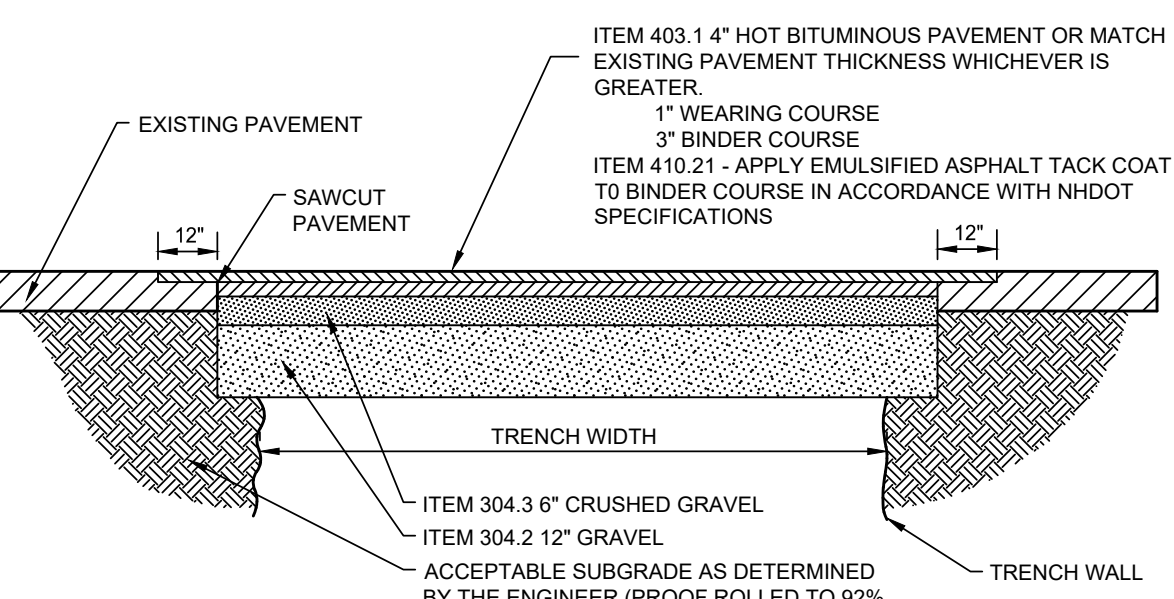
CAPE COD BERM DETAIL
NOT TO SCALE



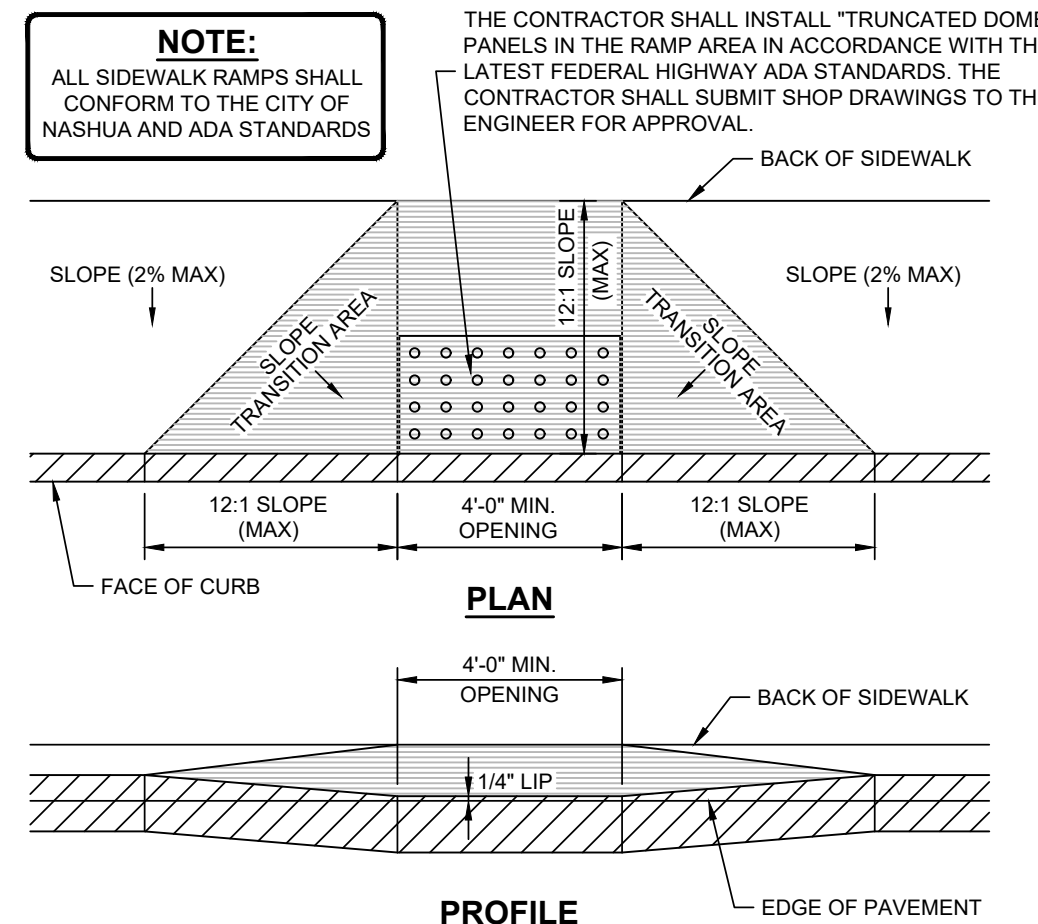
TYPICAL SECTION BITUMINOUS SIDEWALK
NOT TO SCALE



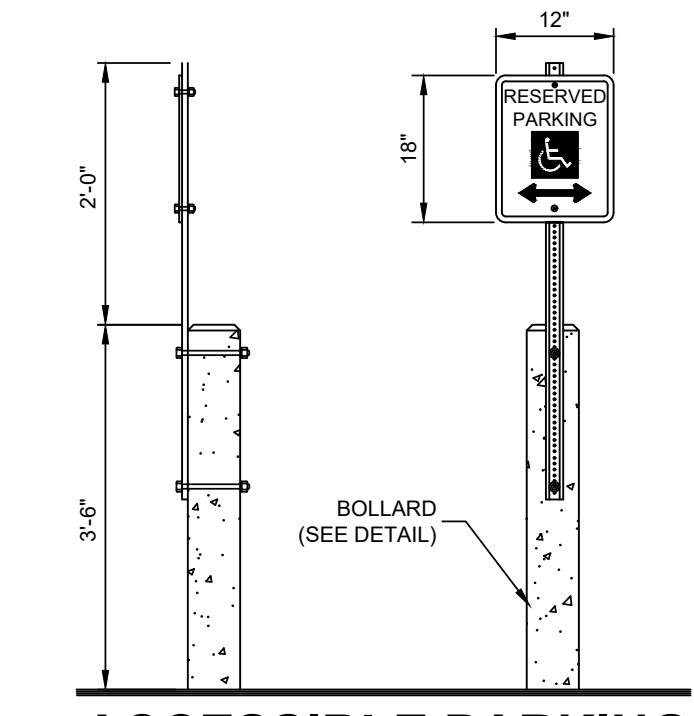
TRAFFIC SIGN SUPPORT DETAIL
NOT TO SCALE



TRENCH PATCH DETAIL
NOT TO SCALE



HANDICAP SIDEWALK RAMP
NOT TO SCALE



ACCESSIBLE PARKING SIGN DETAIL (BOLLARD)
NOT TO SCALE

NOTE:
THE BINDER COURSE SHALL BE PLACED IMMEDIATELY AFTER THE TRENCH CONSTRUCTION, AND ALLOWED TO STAND FOR A MINIMUM OF 90 DAYS. A LEVELING COURSE SHALL BE APPLIED OVER THE TRENCH AFTER 90 DAYS AND THE AREA OVERLAPPED TO THE LIMITS SHOWN ON THE PLANS.

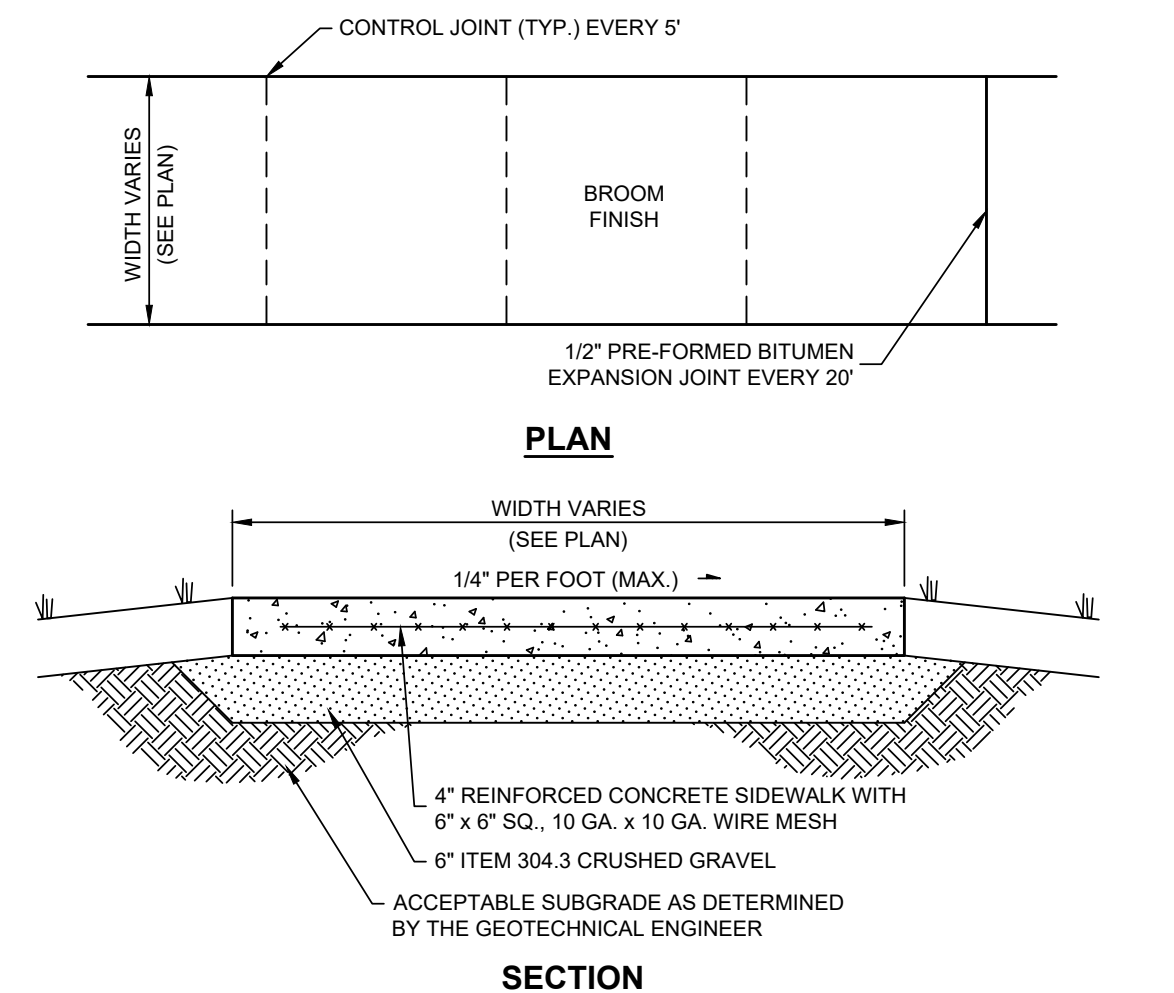
NOTE:
ALL SIDEWALK RAMPS SHALL CONFORM TO THE CITY OF NASHUA AND ADA STANDARDS. THE CONTRACTOR SHALL INSTALL "TRUNCATED DOME" PANELS IN THE RAMP AREA IN ACCORDANCE WITH THE LATEST FEDERAL HIGHWAY ADA STANDARDS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

CONSTRUCTION NOTES:

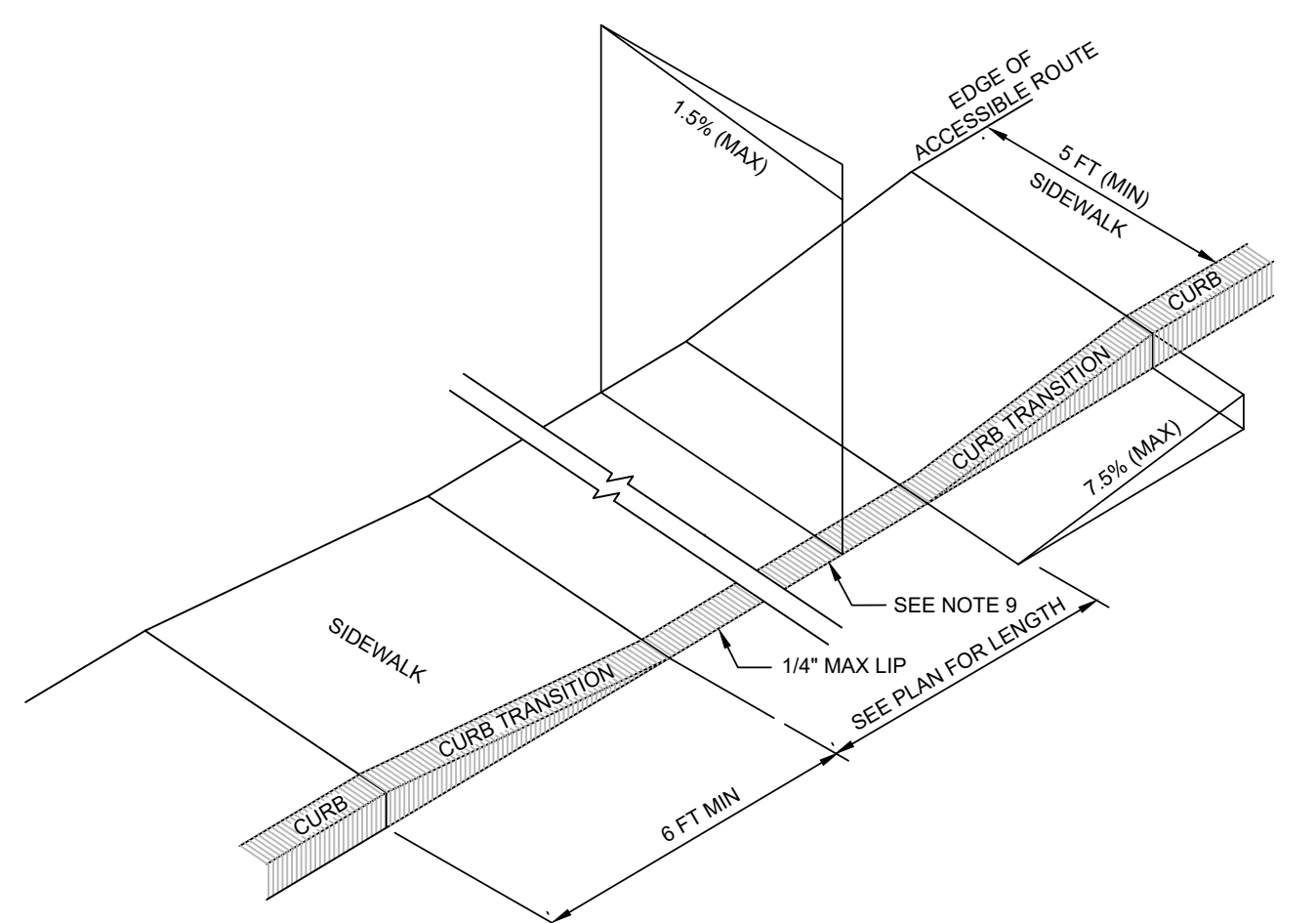
- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF DURHAM, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, APPROVED AND ADOPTED, LATEST EDITION, ARE HEREBY INCORPORATED BY REFERENCE.
- ROAD (PARKING LOT) AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS FOR ROAD CONSTRUCTION, BOARD OF PUBLIC WORKS, DURHAM, NEW HAMPSHIRE, AND THE STANDARD SPECIFICATIONS FOR SEWERS AND DRAINS, BOARD OF PUBLIC WORKS, MILFORD, NEW HAMPSHIRE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS BEFORE DIGGING.
- ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

EROSION CONTROL NOTES:

- SILT SACKS AND OTHER EROSION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY EXCAVATION WORK.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS DICTATED BY SITE CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- LOAM AND MATERIAL STOCKPILE AREAS STOCKPILE AREAS SHALL BE SURROUNDED BY SILT FENCE AND BE TEMPORARILY SEEDED IF THEY ARE LEFT UNTOUCHED FOR MORE THAN TEN (10) DAYS.
- AN AREA SHALL BE CONSIDERED STABLE ONLY IF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED.
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

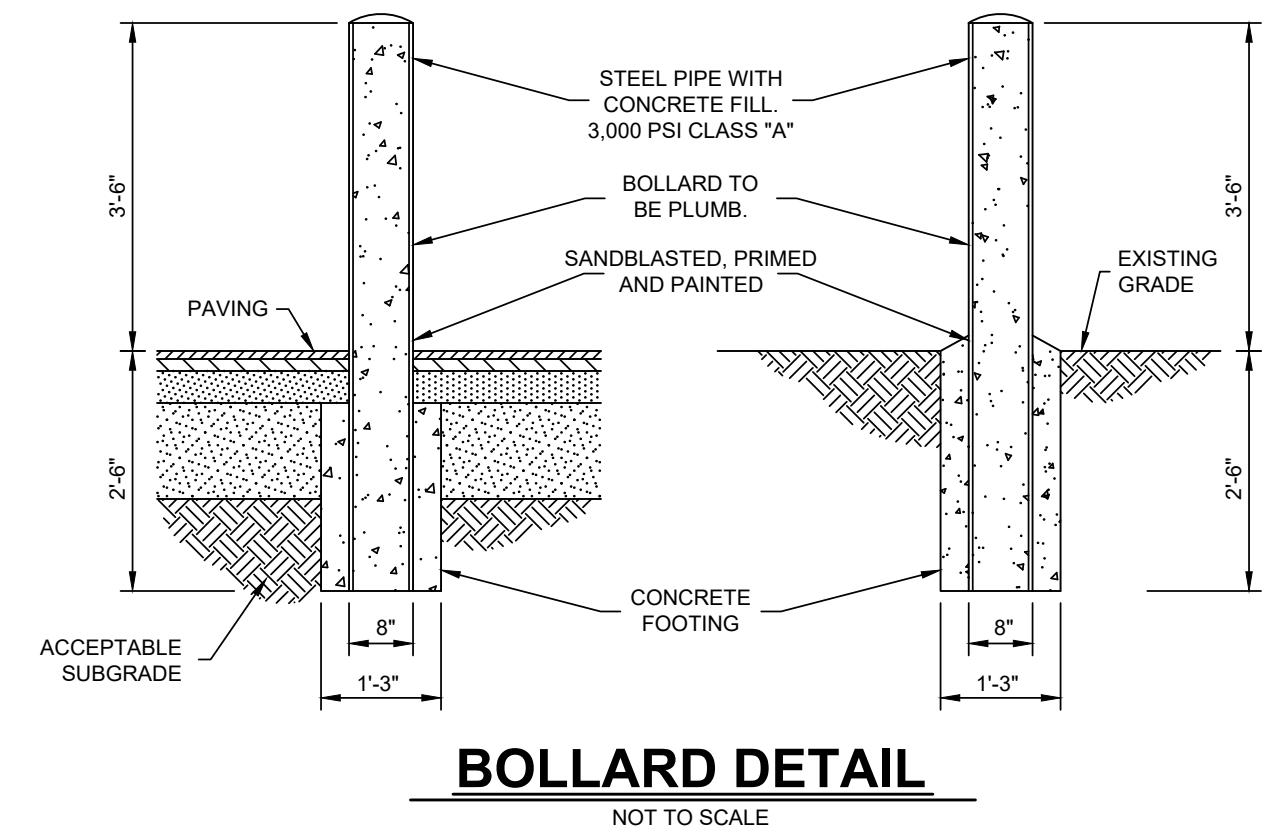


REINFORCED CONCRETE SIDEWALK DETAIL (PEDESTRIAN TRAFFIC ONLY)
NOT TO SCALE



HANDICAP ACCESSIBLE CURB RAMP DETAIL
NOT TO SCALE

- NOTES:**
- THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5% (1% MIN).
 - THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
 - THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%.
 - A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.)
 - CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
 - BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.
 - SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
 - WHERE ACCESSIBLE ROUTES ARE LESS THAN 5 FT IN WIDTH (EXCLUDING CURB) A 5 FT x 5 FT PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
 - ELIMINATE ALL CURBING AT RAMP (OTHER THAN VERTICAL CURBING, WHICH SHALL BE SET FLUSH) WHERE IT ABUTS PAVEMENT.



BOLLARD DETAIL
NOT TO SCALE

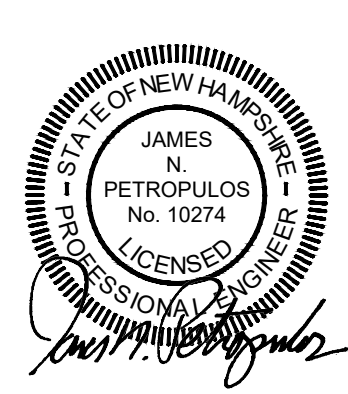
NO.	DATE	REVISION
1	07/28/23	ADDRESS TOWN COMMENTS

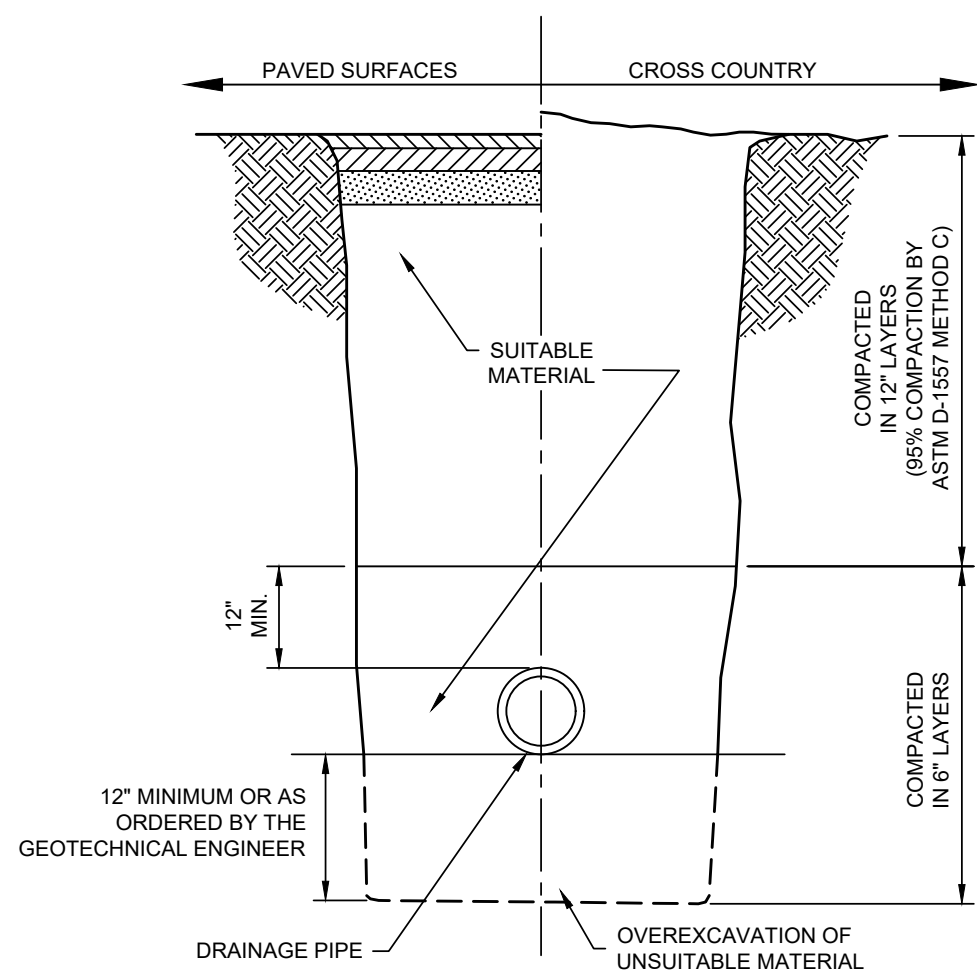
PREPARED FOR:
R.J. KELLY COMPANY, INC.
55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

RECORD OWNER:
121 TECH OWNER, L.L.C.
55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

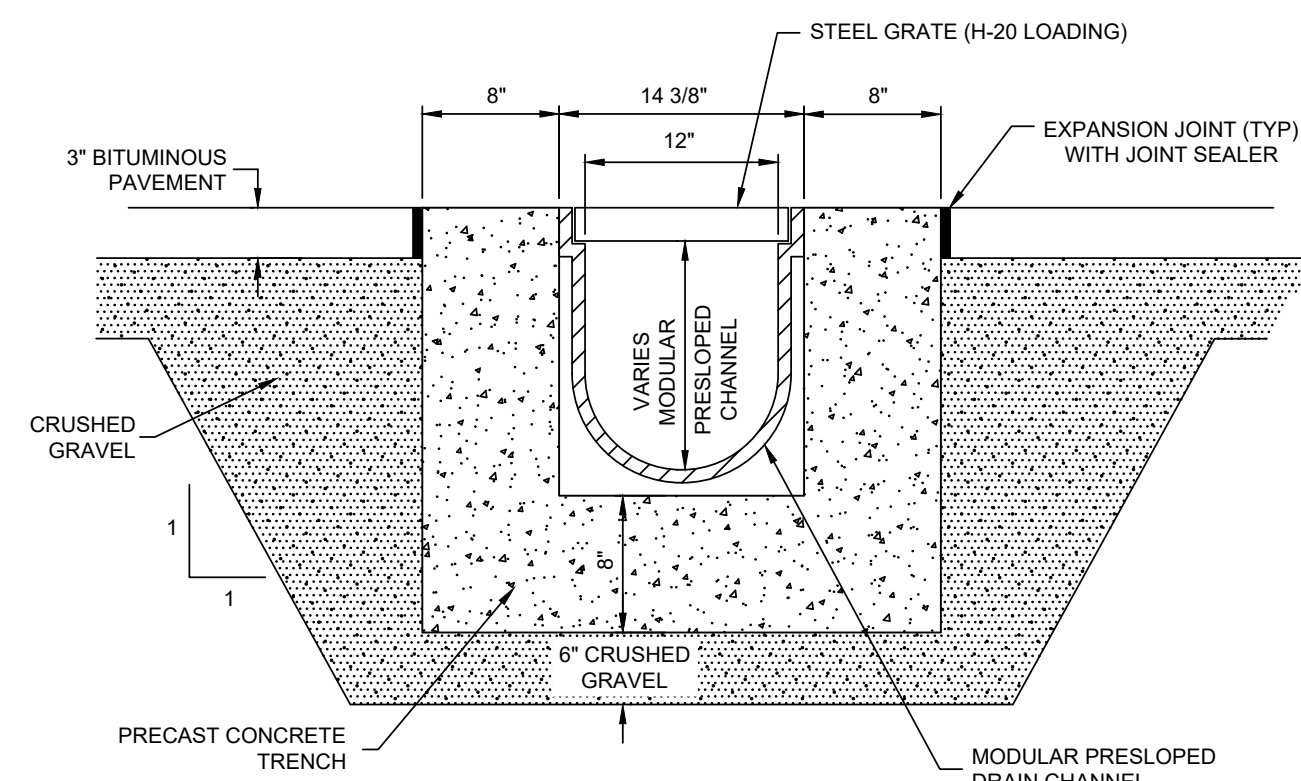
GENERAL SITE
SITE IMPROVEMENTS PLAN
121 TECHNOLOGY DRIVE
DURHAM, NEW HAMPSHIRE

DATE: 15 JUN 2023
SCALE: AS SHOWN
DWG NO: 5832-EB1
SHEET: 5 OF 6

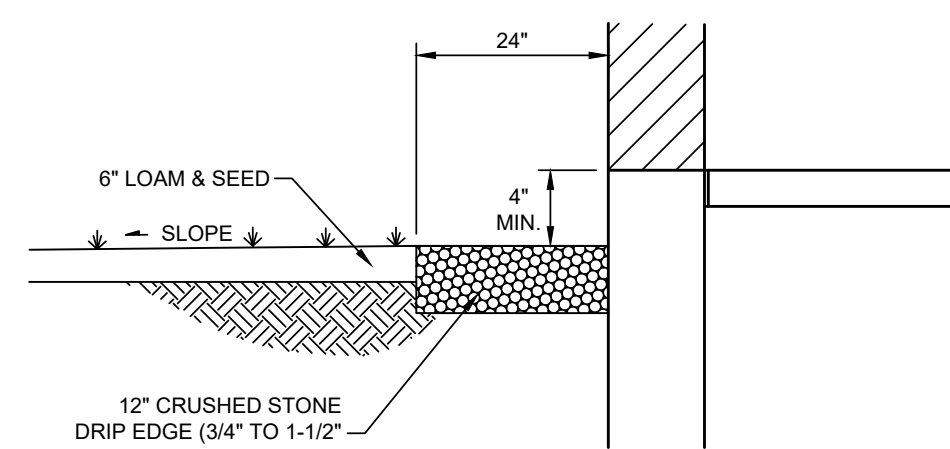




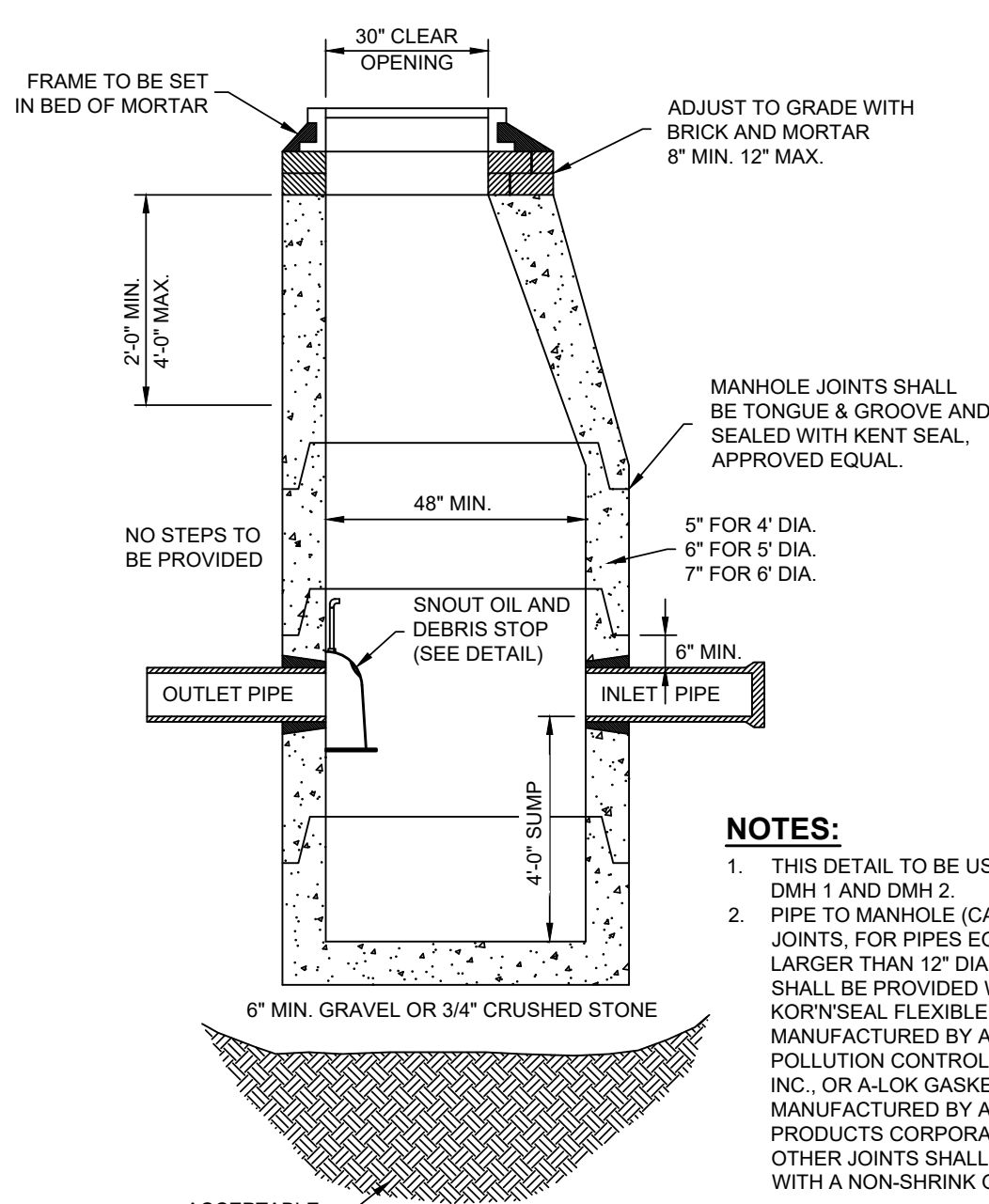
TYPICAL DRAINAGE TRENCH SECTION
NOT TO SCALE



TRENCH DRAIN DETAIL
NOT TO SCALE

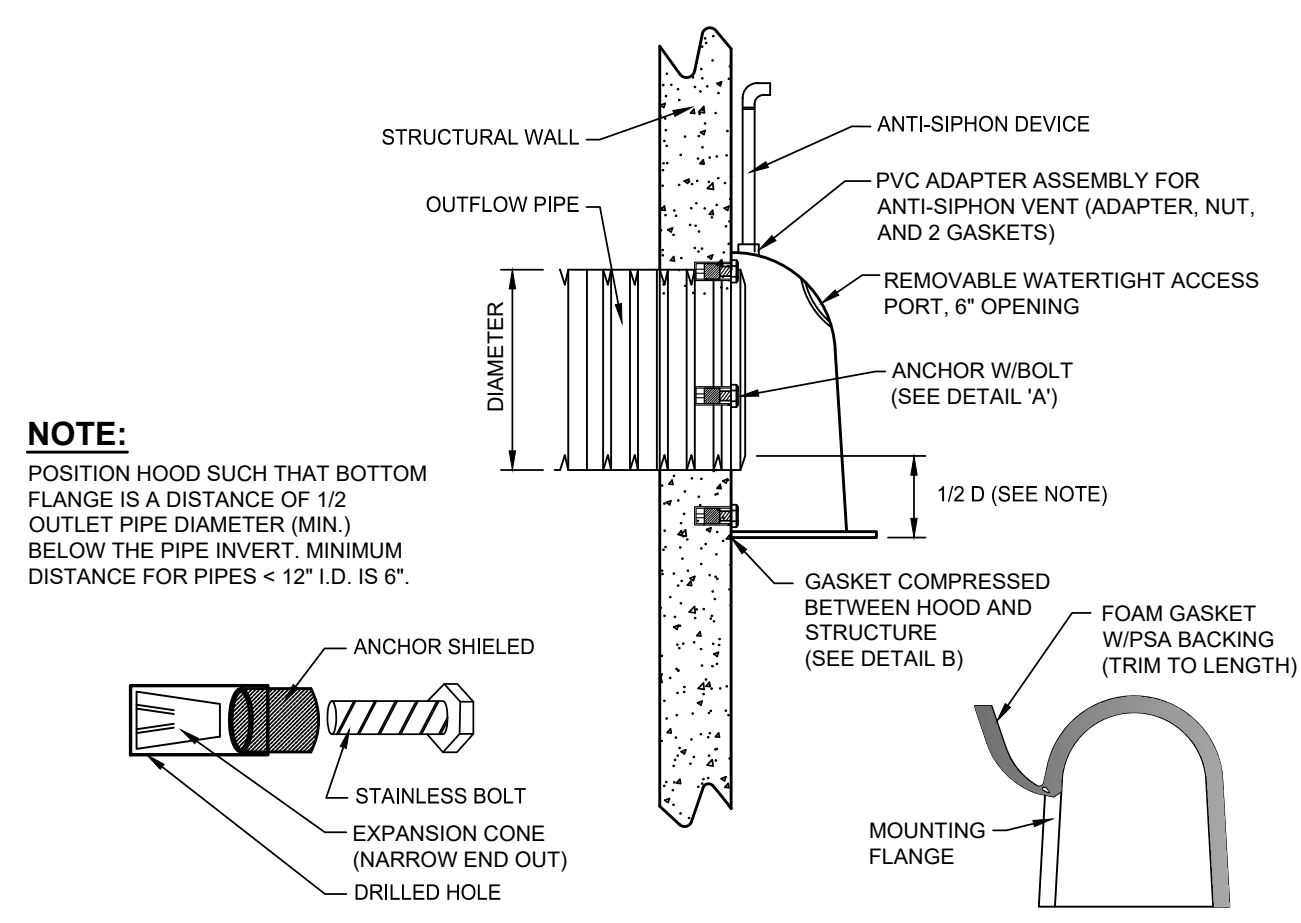


CRUSHED STONE DRIP EDGE DETAIL
NOT TO SCALE



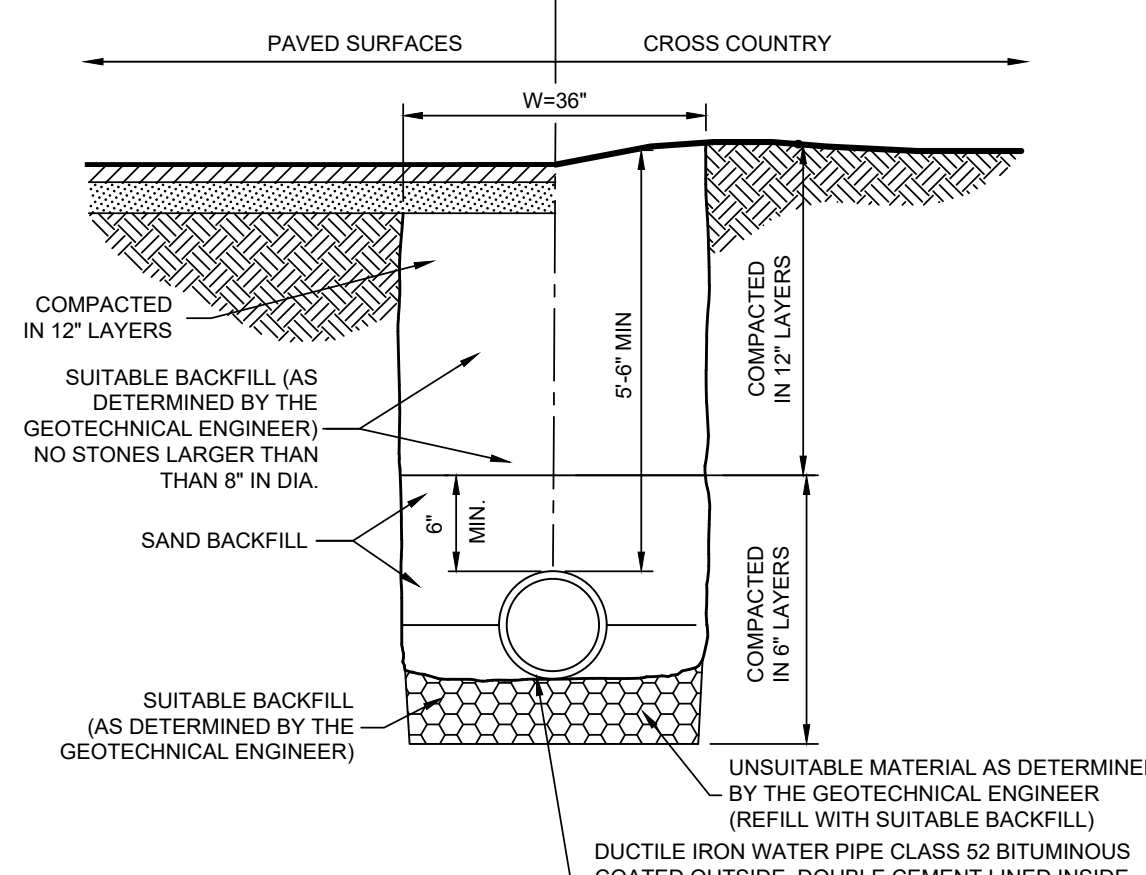
DEEP SUMP (4' - 0'') DRAIN MANHOLE DETAIL
NOT TO SCALE

- NOTES:**
- THIS DETAIL TO BE USED FOR DMH 1 AND DMH 2.
 - PIPE TO MANHOLE (CATCH BASIN) JOINTS, FOR PIPES EQUAL TO OR LARGER THAN 12" DIAMETER, SHALL BE PROVIDED WITH A KORNSEAL FLEXIBLE SLEEVE AS MANUFACTURED BY A-NATIONAL POLLUTION CONTROL SYSTEMS, INC. OR A-LOCK GASKET AS MANUFACTURED BY A-LOCK PRODUCTS CORPORATION. ALL OTHER JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT.

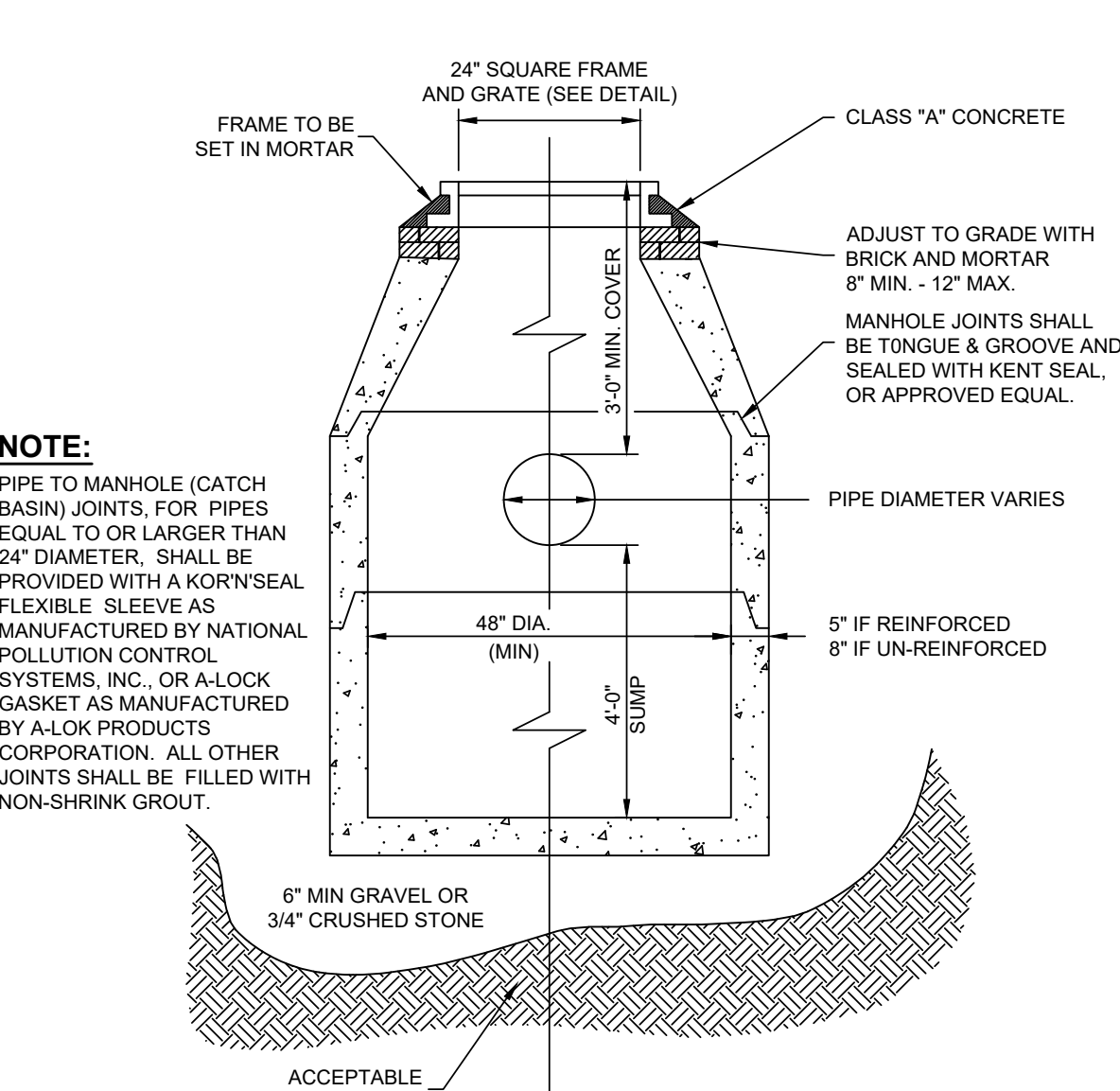


SNOUT OIL AND DEBRIS STOP DETAIL
NOT TO SCALE

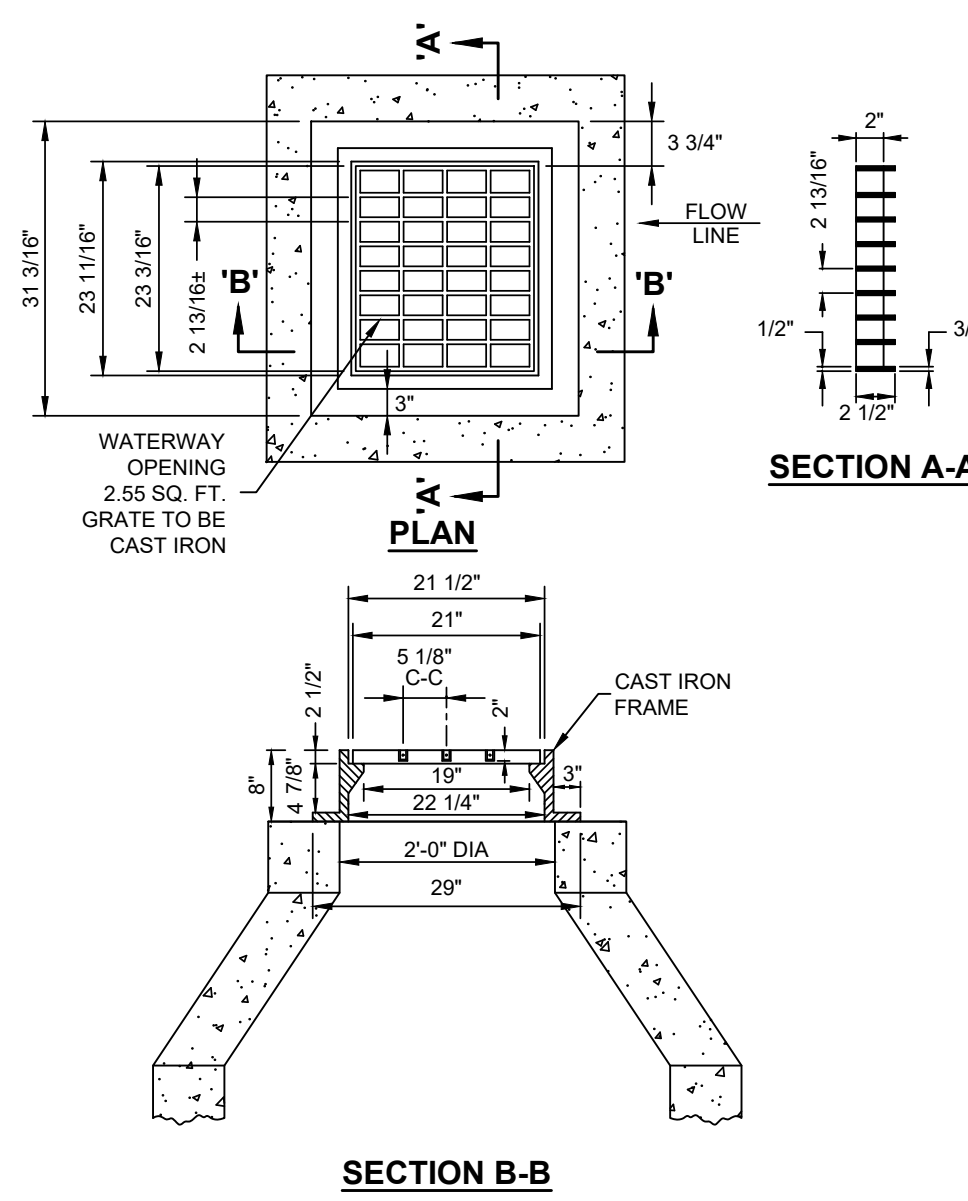
NOTE: POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINIMUM DISTANCE FOR PIPES < 12" I.D. IS 6".



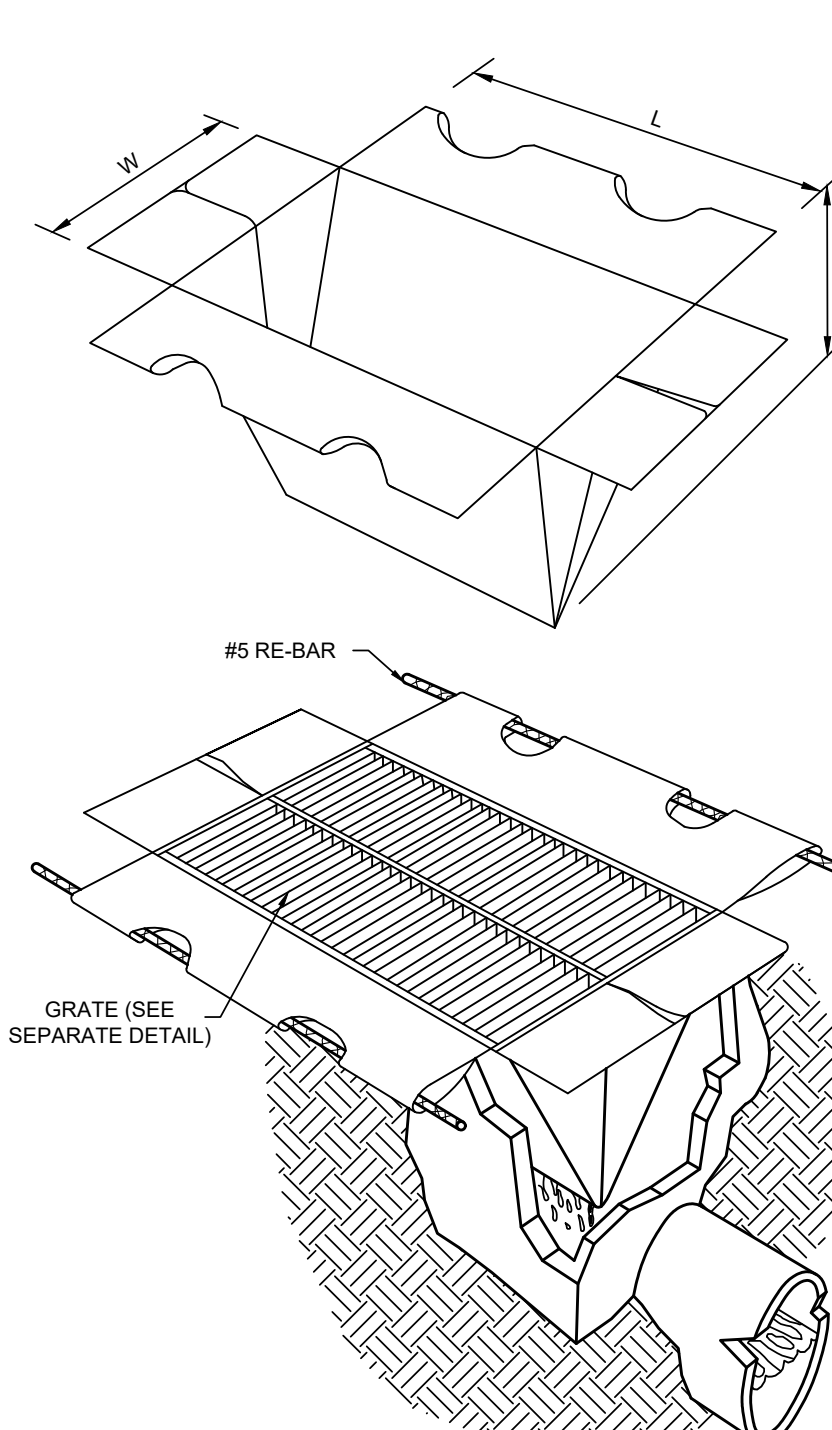
TYPICAL WATER TRENCH SECTION
NOT TO SCALE



CATCH BASIN DETAIL
NOT TO SCALE



CATCH BASIN - TYPE B FRAME AND COVER DETAIL
(NHDOT STANDARD)
NOT TO SCALE



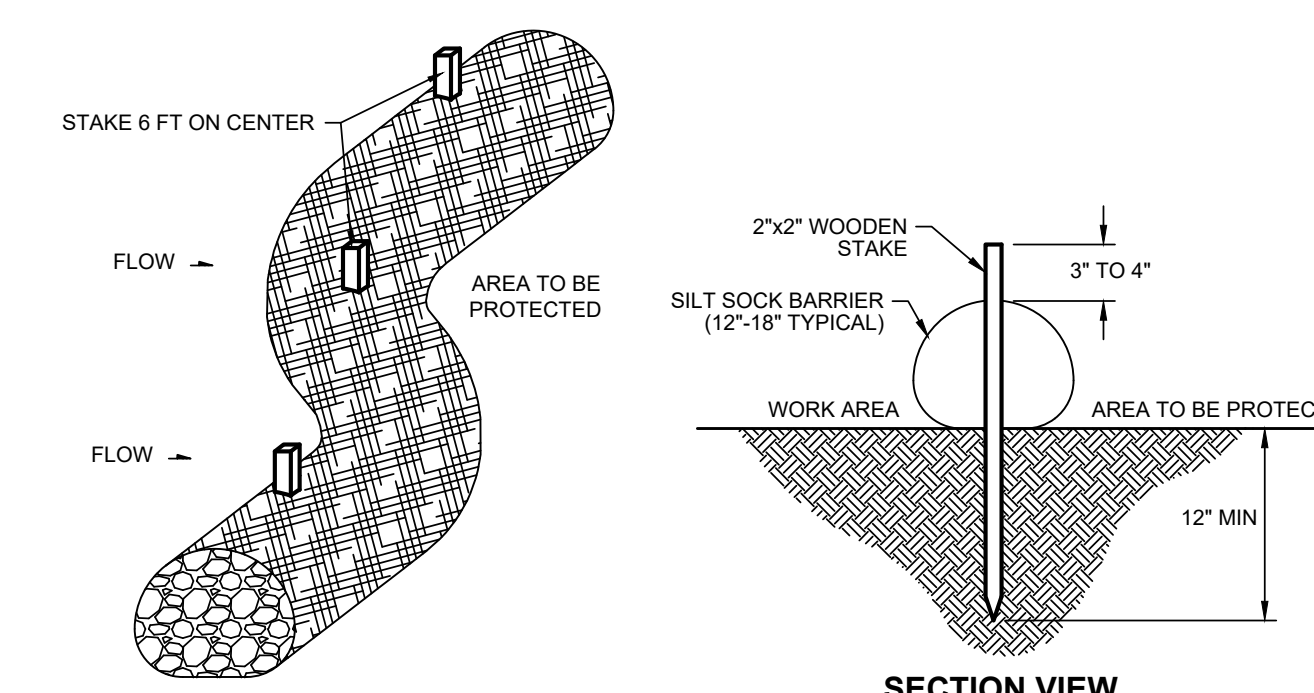
SILTSAK DETAIL
NOT TO SCALE

SILTSAK® NOTES:

- THE SILTSAK® SHALL BE MANUFACTURED FROM WOVEN POLYPROPYLENE AND SEWN BY A DOUBLE NEEDLE MACHINE, USING A HIGH STRENGTH NYLON THREAD.
- THE SILTSAK® SEAMS SHALL HAVE A CERTIFIED AVERAGE WIDE WIDTH STRENGTH PER ASTM D-4884 STANDARDS AS FOLLOWS:
SILTSAK® STYLE TEST METHOD TEST RESULT
REGULAR FLOW ASTM D-4884 165.0 LBS/IN
HI-FLOW ASTM D-4884 114.6 LBS/IN
- THE SILTSAK® WILL BE MANUFACTURED TO FIT THE OPENING OF THE CATCH BASIN OR DROP INLET. THE SILTSAK® WILL HAVE THE FOLLOWING FEATURES: TWO DUMP STRAPS ATTACHED AT THE BOTTOM TO FACILITATE THE EMPTYING OF THE SILTSAK®; THE SILTSAK® SHALL HAVE LIFTING LOOPS AS AN INTEGRAL PART OF THE SYSTEM TO BE USED TO LIFT THE SILTSAK® FROM THE BASIN; THE SILTSAK® SHALL HAVE A RESTRAINT CORD APPROXIMATELY HALFWAY UP THE SACK TO KEEP THE SIDES AWAY FROM THE CATCH BASIN WALLS. THIS YELLOW CORD IS ALSO A VISIBLE MEANS OF INDICATING WHEN THE SACK SHOULD BE EMPTIED, CLEANED, AND PLACED BACK INTO THE BASIN.
- THE GEOTEXTILE FABRIC SHALL BE WOVEN POLYPROPYLENE FABRIC WITH THE FOLLOWING PROPERTIES:

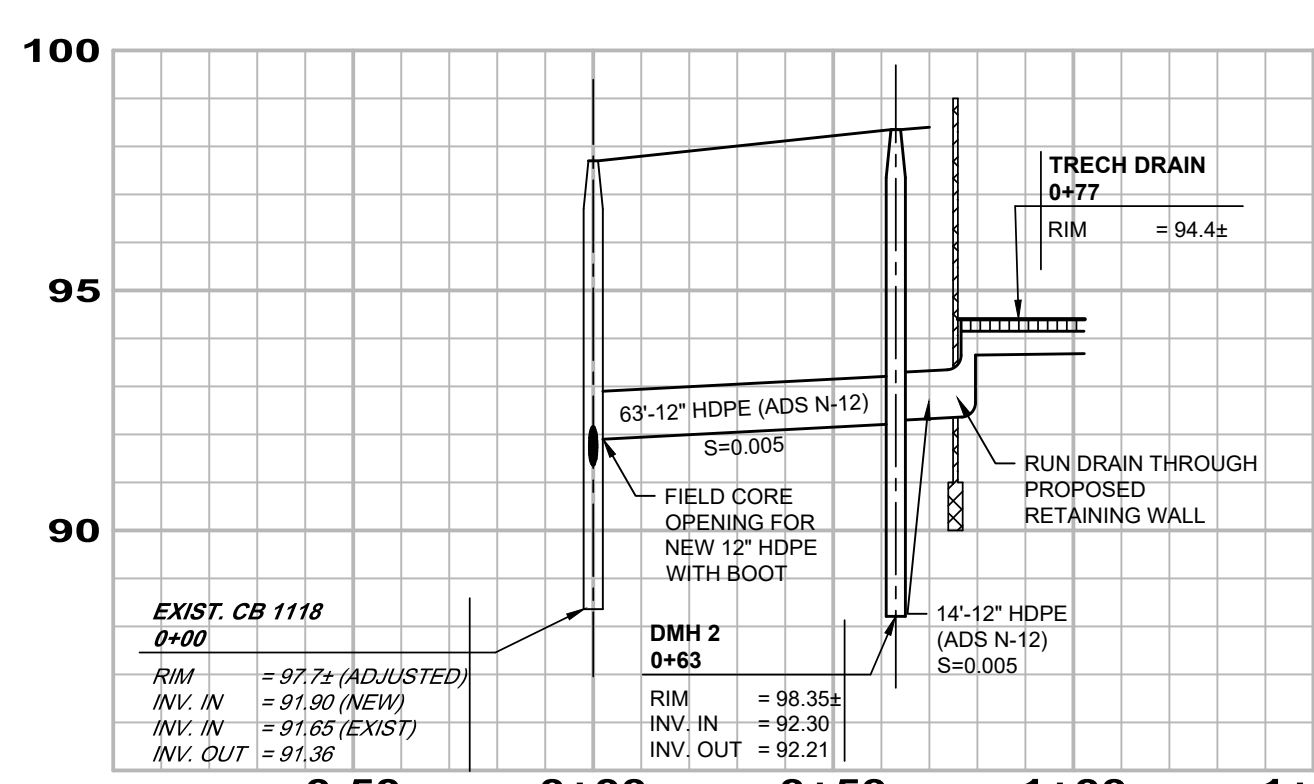
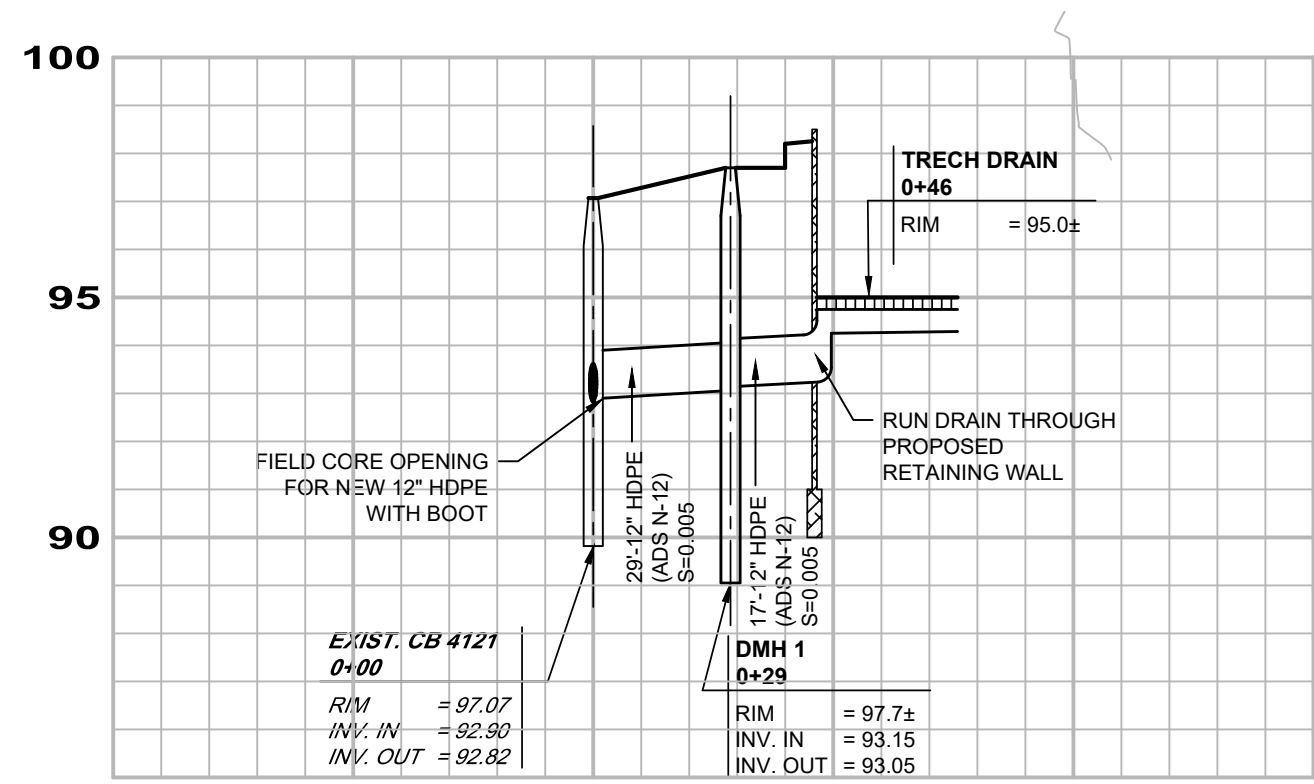
PROPERTY	TEST METHOD	TEST RESULT
GRAB TENSILE	ASTM D-4632	300 LBS
GRAB ELONGATION	ASTM D-4631	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/FT2
PERMITTIVITY	ASTM D-4491	0.55 SEC

OR SILTSAK® HI-FLOW PROPERTY	TEST METHOD	TEST RESULT
GRAB TENSILE	ASTM D-4632	265 LBS
GRAB ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/FT2
PERMITTIVITY	ASTM D-4491	1.5 SEC

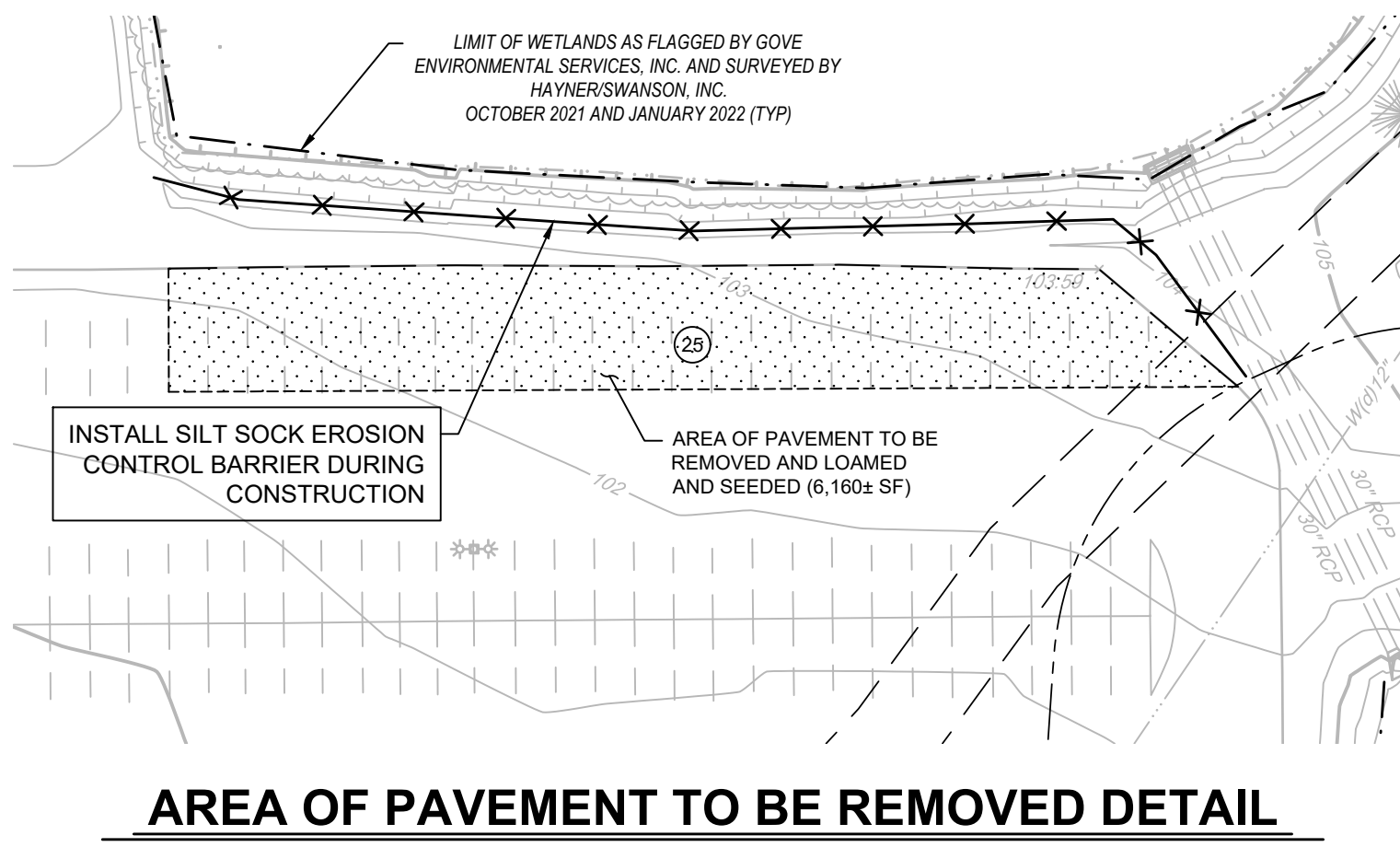


SILT SOCK DETAIL
NOT TO SCALE

- NOTES:**
- SILT SOCK BARRIER SHALL BE FILTREXX SILTSOXX NATURAL PLUS (OR APPROVED EQUAL) AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - SILT SOCK BARRIER SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
 - IF THE SILT SOCK SHOULD DECOMPOSE OR BECOME INEFFECTIVE, THE BARRIER SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
 - SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE BARRIER HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.
 - COMPOST TO BE REMOVED OR DISPOSED ON-SITE AS DETERMINED BY THE ENGINEER.



DRAINAGE PROFILES
SCALE: HV 1" = 40'/1" = 4'



AREA OF PAVEMENT TO BE REMOVED DETAIL
SCALE: 1" = 40'

NO.	DATE	REVISION	BY
1	07/28/23	ADDRESS TOWN COMMENTS	EDB

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55 CAMBRIDGE STREET BURLINGTON, MASSACHUSETTS 01803 (781) 365-2416

DETAIL SHEET 1 & 2 GENERAL SITE
(MAP 204)

SITE IMPROVEMENTS PLAN
121 TECHNOLOGY DRIVE
DURHAM, NEW HAMPSHIRE

Hayner/Swanson, Inc.
Civil Engineers/Land Surveyors
3 Coe Street, Middlebury, VT 05753
Tel: (802) 249-1414 Fax: (802) 249-1415
www.haynerswanson.com

FIELD BOOK: 1266, 1269 | DWG. LOC.: 5000018332.DWG/5832.EBT
Scale: AS SHOWN Date: 30 JUNE 2023
DWG: 5832-EB1 Date: 30 JUNE 2023
6 OF 6 Sheet: 5832-EB1 Date: 30 JUNE 2023

