

LONGMEADOW ROAD EXTENSION

LONGMEADOW ROAD AND LANG ROAD AT US ROUTE 1 PORTSMOUTH, NEW HAMPSHIRE

PROJECT NO: P-0714-005

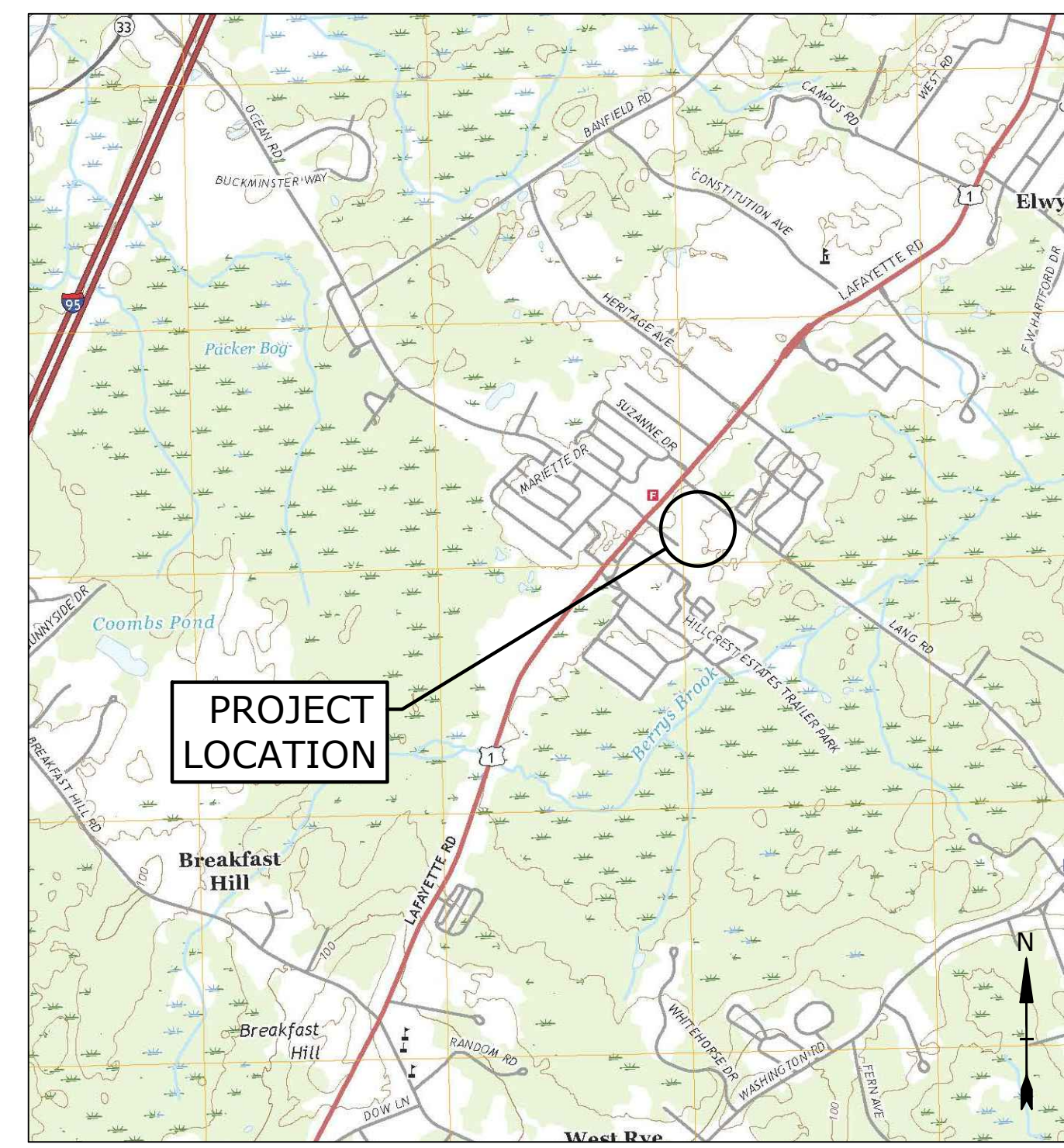
PORTSMOUTH #42350, X-A004(818)

JANUARY 11, 2019

LAST REVISED: OCTOBER 4, 2021

Last Save Date: October 4, 2021 11:48 AM By: NAHANSEN
 Plot Date: Tuesday, October 05, 2021 Plotted By: Neil A. Hansen
 P&E File Location: J:\P&E\214 City of Portsmouth\Drawings - Longmeadow Road Extension\Drawings - Figures\AutoCAD\Xref\0714-005-CS-RDWY.dwg Layout: Tab: Cover Sheet

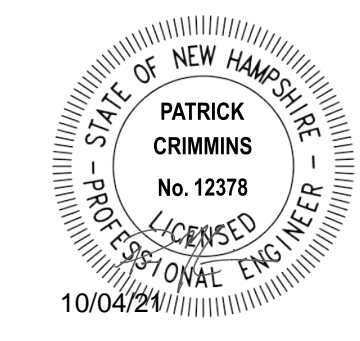
LIST OF DRAWINGS		
SHEET NO	SHEET TITLE	LAST REVISED
1	COVER SHEET	10/04/2021
1 OF 3	SUBDIVISION PLAN	2/11/2021
2 OF 3	SUBDIVISION PLAN	2/11/2021
3 OF 3	SUBDIVISION PLAN	2/11/2021
C-100	GENERAL NOTES, LEGEND & ABBREVIATIONS	1/29/2021
C-101	EXISTING CONDITIONS PLAN	1/29/2021
C-102	DEMOLITION PLAN	1/29/2021
C-103	OVERALL ROADWAY PLAN	10/04/2021
C-103.1	PROPOSED ROADWAY PLAN	10/04/2021
C-104	GRADING, DRAINAGE, & EROSION CONTROL PLAN	10/04/2021
C-105	UTILITIES PLAN	7/21/2021
C-106	LONGMEADOW ROAD PLAN & PROFILE	10/04/2021
C-107	LANG ROAD EXTENSION PLAN & PROFILE	10/04/2021
C-108	LANG ROAD EXTENSION PLAN & PROFILE	10/04/2021
C-109	LANG ROAD PLAN & PROFILE	1/29/2021
C-110	LANG ROAD SIGHT DISTANCE PLAN & PROFILE	1/29/2021
C-201	SIGN LOCATION PLAN	10/04/2021
C-501	EROSION CONTROL NOTES & DETAILS SHEET	4/21/2021
C-502	DETAILS SHEET	10/04/2021
C-503	DETAILS SHEET	10/04/2021
C-504	DETAILS SHEET	10/04/2021
C-505	DETAILS SHEET	1/29/2021
C-506	DETAILS SHEET	4/21/2021
C-507	DETAILS SHEET	8/11/2021
1	STATE OF NH - ROUTE MARKER POST ASSEMBLY DETAIL (2 GROUP)	8/11/2021
1	STATE OF NH - ROUTE MARKER POST ASSEMBLY DETAIL (3 GROUP)	8/11/2021



LOCATION MAP
SCALE: 1" = 2,000'

PREPARED BY:

Tighe & Bond
 Engineers | Environmental Specialists
 177 Corporate Drive
 Portsmouth, NH 03801
 (603) 433-8818



APPLICANT:

City Of Portsmouth
 1 Junkins Ave,
 Portsmouth, NH 03801

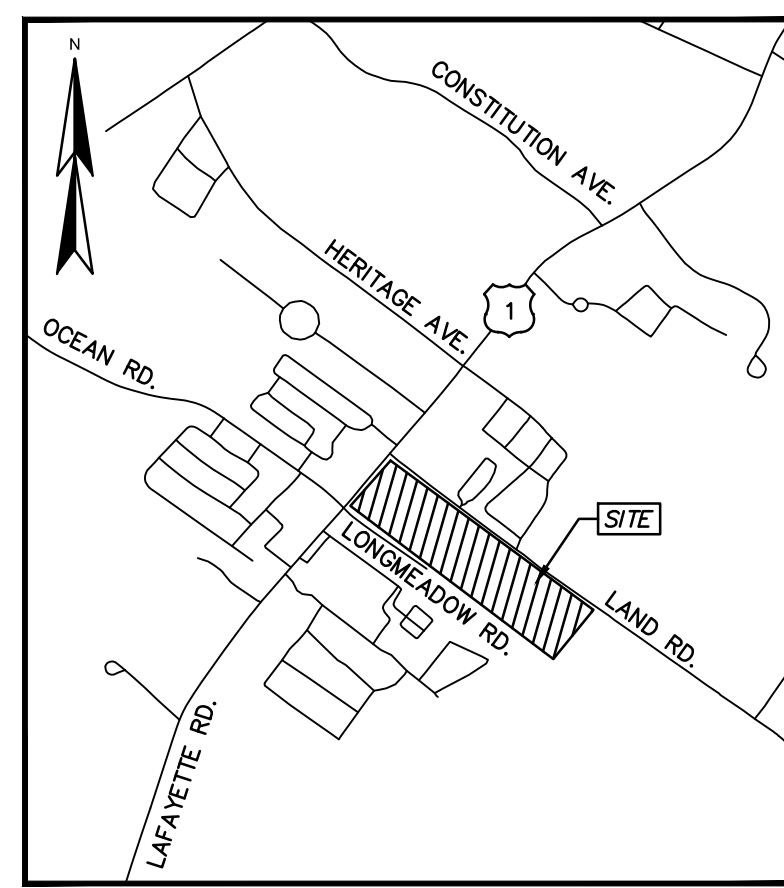
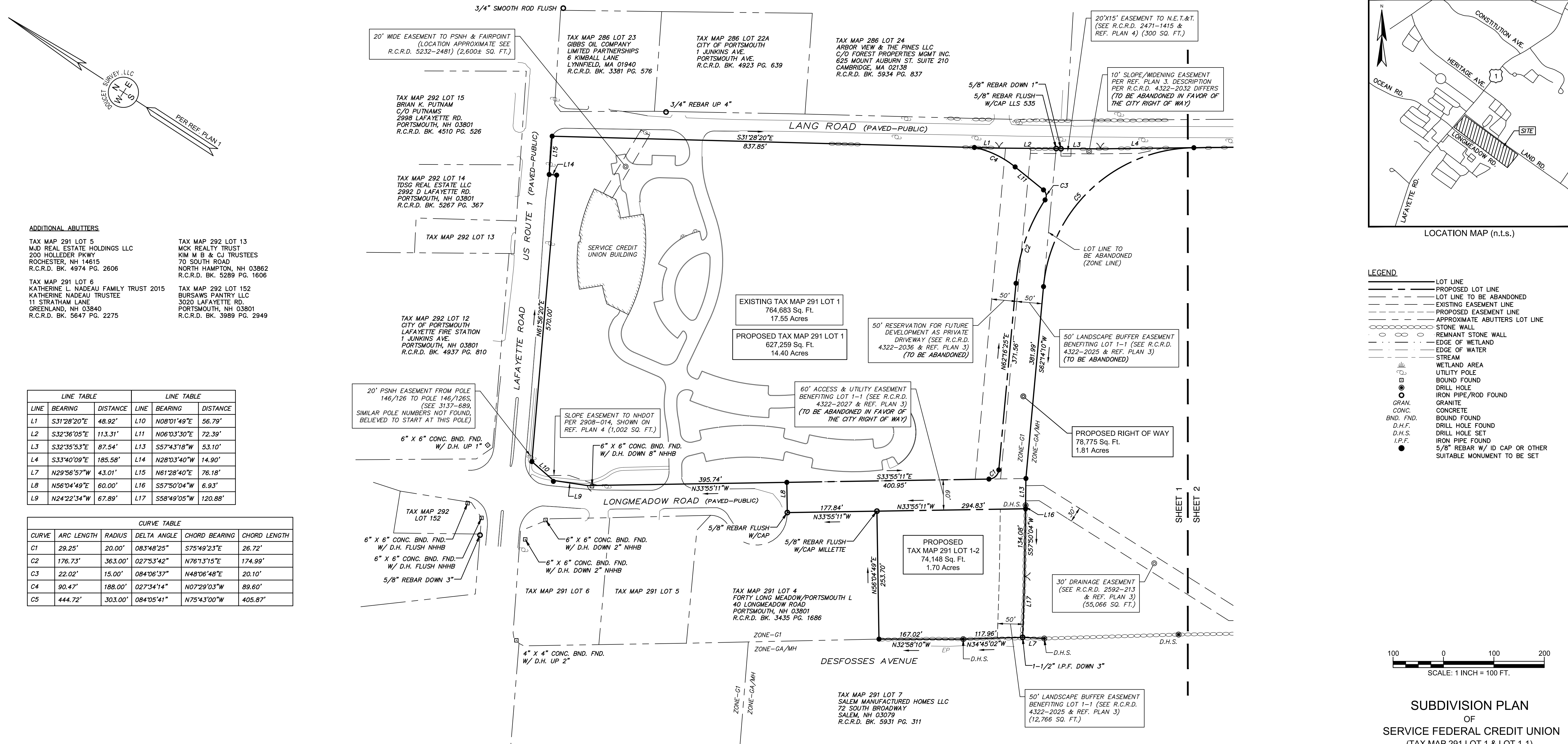
SURVEYOR:

Doucet Survey, Inc.
 102 Kent Place
 Newmarket, NH 03857

OWNER:

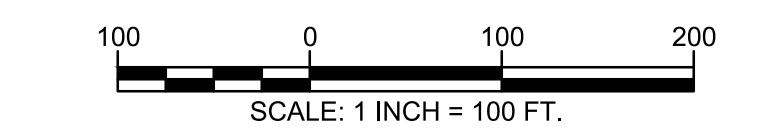
Service Credit Union
 3003 Lafayette Road,
 Portsmouth, NH 03801

**FINAL DESIGN PLANS - ADDENDUM 1
COMPLETE SET 26 SHEETS**



LEGEND

- LOT LINE
- - - PROPOSED LOT LINE
- - - LOT LINE TO BE ABANDONED
- - - EXISTING EASEMENT LINE
- - - PROPOSED EASEMENT LINE
- - - APPROXIMATE ABUTTERS LOT LINE
- STONE WALL
- REMNANT STONE WALL
- EDGE OF WETLAND
- EDGE OF WATER
- STREAM
- WETLAND AREA
- UTILITY POLE
- BOUND FOUND
- DRILL HOLE
- IRON PIPE/ROD FOUND
- GRANITE
- CONCRETE
- BOUND FOUND
- DRILL HOLE FOUND
- DRILL HOLE SET
- IRON PIPE FOUND
- 5/8" REBAR W/ ID CAP OR OTHER SUITABLE MONUMENT TO BE SET



SUBDIVISION PLAN
OF
SERVICE FEDERAL CREDIT UNION
(TAX MAP 291 LOT 1 & LOT 1-1)
FOR THE
CITY OF PORTSMOUTH
LAFAYETTE ROAD (US ROUTE 1),
LONGMEADOW ROAD & LANG ROAD
PORTSMOUTH, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY
3	02/11/21	ISSUE MYLAR	M.T.L.
2	11/04/20	ADD ADDITIONAL EASEMENTS	M.T.L.
1	03/15/19	ADD PROPOSED DRAINAGE EASEMENT B	M.T.L.

DRAWN BY:	M.T.L.	DATE:	JANUARY 10, 2019
CHECKED BY:	J.F.K.	DRAWING NO.:	5539B
JOB NO.:	5539	SHEET	1 OF 3

Serving Your Professional Surveying & Mapping Needs
 102 Kent Place, Newmarket, NH 03857 (603) 659-6560
 2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 614-4060
 10 Storer Street (Riverview Suite) Kennebunk, ME (207) 502-7005
<http://www.doucetsurvey.com>

ADDITIONAL ABUTTERS

TAX MAP 291 LOT 5
MJD REAL ESTATE HOLDINGS LLC
200 HOLLEDER PKWY
ROCHESTER, NH 14615
R.C.R.D. BK. 4974 PG. 2606

TAX MAP 291 LOT 6
KATHERINE L. NADEAU FAMILY TRUST 1051
KATHERINE NADEAU TRUSTEE
11 STRATHAM LANE
GREENLAND, NH 03840
R.C.R.D. BK. 5647 PG. 2275

TAX MAP 292 LOT 13
MCK REALTY TRUST
KIM M B & CJ TRUSTEES
70 SOUTH ROAD
NORTH HAMPTON, NH 03862
R.C.R.D. BK. 5289 PG. 1606

TAX MAP 292 LOT 14
TDSG REAL ESTATE LLC
2992 D LAFAYETTE RD.
PORTSMOUTH, NH 03801
R.C.R.D. BK. 5267 PG. 367

TAX MAP 292 LOT 15
BRIAN K. PUTNAM
C/O PUTNAMS
2998 LAFAYETTE RD.
PORTSMOUTH, NH 03801
R.C.R.D. BK. 4510 PG. 526

TAX MAP 292 LOT 12
CITY OF PORTSMOUTH
LAFAYETTE FIRE STATION
1 JUNKINS AVE.
PORTSMOUTH, NH 03801
R.C.R.D. BK. 4937 PG. 810

TAX MAP 292 LOT 13
BURSAWS PANTRY LLC
3020 LAFAYETTE RD.
PORTSMOUTH, NH 03801
R.C.R.D. BK. 3989 PG. 2949

LINE TABLE		LINE TABLE	
LINE	BEARING	LINE	BEARING
L1	S31°28'20"E	L10	N08°01'49"E
L2	S32°36'05"E	L11	N06°03'30"E
L3	S32°35'53"E	L12	S57°43'18"W
L4	S33°40'09"E	L13	N28°03'40"W
L5	N29°56'57"W	L14	N61°28'40"E
L6	N56°04'49"E	L15	S57°50'04"W
L7	N24°22'34"W	L16	S58°49'05"W
L8		L17	
L9		L18	

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING
C1	29.25'	20.00'	083°48'25"	S75°49'23"E
C2	176.73'	363.00'	027°53'42"	N76°13'15"E
C3	22.02'	15.00'	084°06'37"	N48°06'48"E
C4	90.47'	188.00'	027°34'14"	N07°29'03"W
C5	444.72'	303.00'	084°05'41"	N75°43'00"W

- NOTES:**
- REFERENCE: TAX MAP 291, LOT 1 & LOT 1-1 LAFAYETTE ROAD PORTSMOUTH, NH
 - TOTAL PARCEL AREA PRIOR TO SUBDIVISION:
TAX MAP 291 LOT 1 = 764,798 SQ. FT. OR 17.56 AC.
TAX MAP 291 LOT 1-1 = 1,179,324 SQ. FT. OR 27.07 AC.
 - PROPOSED PARCEL AREAS:
TAX MAP 291 LOT 1 = 626,374 SQ. FT. OR 14.40 AC.
TAX MAP 291 LOT 1-1 = 1,163,825 SQ. FT. OR 26.72 AC.
TAX MAP 291 LOT 1-2 = 74,148 SQ. FT. OR 1.70 AC.
RIGHT OF WAY = 78,775 SQ. FT. OR 1.81 AC.
 - OWNER OF RECORD: SERVICE CREDIT UNION
3003 LAFAYETTE ROAD
PORTSMOUTH, NH 03801
R.C.R.D. BK. 4932 PG. 2469 (LOT 1)
R.C.R.D. BK. 5258 PG. 349 (LOT 1)
R.C.R.D. BK. 5423 PG. 1976 (LOT 1-1)
 - FIELD SURVEY PERFORMED BY S.N.F. & L.P.S. DURING JUNE & JULY 2018 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TSC3 DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 - MANMADE AND NATURAL JURISDICTIONAL BOUNDARIES WERE DELINEATED BY MARC JACOBS, CERTIFIED WETLAND SCIENTIST NUMBER 090, IN NOVEMBER 2015 ACCORDING TO THE STANDARD OF THE US ARMY CORPS OF ENGINEERS - WETLAND DELINEATION MANUAL, TECHNICAL REPORT T-87-1, JANUARY 1987; THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL; NORTH-CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012; NH RSA 482-A; THE CODE OF ADMINISTRATIVE RULES, NH DEPARTMENT OF ENVIRONMENTAL SERVICES-WETLANDS BUREAU - CHAPTER ENV-WT 100-900; AND ARTICLE 10, SECTION 10.1010 OF THE PORTSMOUTH ZONING ORDINANCE. PREDOMINANT HYDRIC SOILS WERE IDENTIFIED UTILIZING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004 AND THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7, 2010. THE INDICATOR STATUS OF HYDROPHYTIC VEGETATION WAS DETERMINED ACCORDING TO THE U.S. ARMY CORPS OF ENGINEERS - NORTH-CENTRAL AND NORTHEAST 2014 REGIONAL WETLAND PLANT LIST. COPIES OF SITE PLANS DEPICTING THE WETLAND DELINEATION WHICH HAVE BEEN REVIEWED BY THE WETLAND SCIENTIST ARE INDIVIDUALLY STAMPED, SIGNED AND DATED.
 - HORIZONTAL DATUM BASED ON PLAN REFERENCE 1.
 - VERTICAL DATUM IS BASED ON NGVD 29 (SURVEY DISK "GPS ROBE, 379-0870").
 - FLOOD HAZARD ZONE: "X" & "A", PER FIRM MAP 33015C0270E, DATED 5/17/05.
 - THE INTENT OF THIS PLAN IS TO CREATE A NEW RIGHT OF WAY TO CONNECT U.S. ROUTE 1 TO LANG ROAD BY CONNECTING THROUGH LONGMEADOW ROAD.
 - DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY. THE EXTENT OF THE ROAD(S) AS DEPICTED HEREON IS/ARE BASED ON RESEARCH CONDUCTED AT THE ROCKINGHAM REGISTRY OF DEEDS.
 - FINAL MONUMENTATION MAY BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOWN HEREON, DUE TO THE FACT THAT SITE CONDITIONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF MONUMENTS INSTALLED IN THE FIELD. PLEASE REFER TO EITHER THE "MONUMENTATION LOCATION PLAN" TO BE RECORDED OR CONTACT DOUCET SURVEY, INC. FOR CLARIFICATION OF MONUMENTS SET. (A RECORDED PLAN WILL BE PRODUCED AT THE DISCRETION OF DOUCET SURVEY, LLC).
 - ALL ELECTRIC, GAS, TEL. WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
 - BUILDING LOCATION, PARKING LOT AND SIDEWALKS ON SERVICE CREDIT UNION SITE ARE BASED ON DATA PROVIDED BY TIGHE & BOND. THE LOCATIONS THEREOF WERE NOT FIELD VERIFIED BY DOUCET SURVEY UNLESS FALLING WITHIN THE SPECIFIED TOPOGRAPHIC SURVEY LIMITS.
 - RIGHTS MAY EXIST FOR CONSTRUCTION OF A DAM PER NHDES ORDER "DAM #119.06" DATED FEBRUARY 15, 1977. R.C.R.D. BOOK 2307, PAGE 1852.

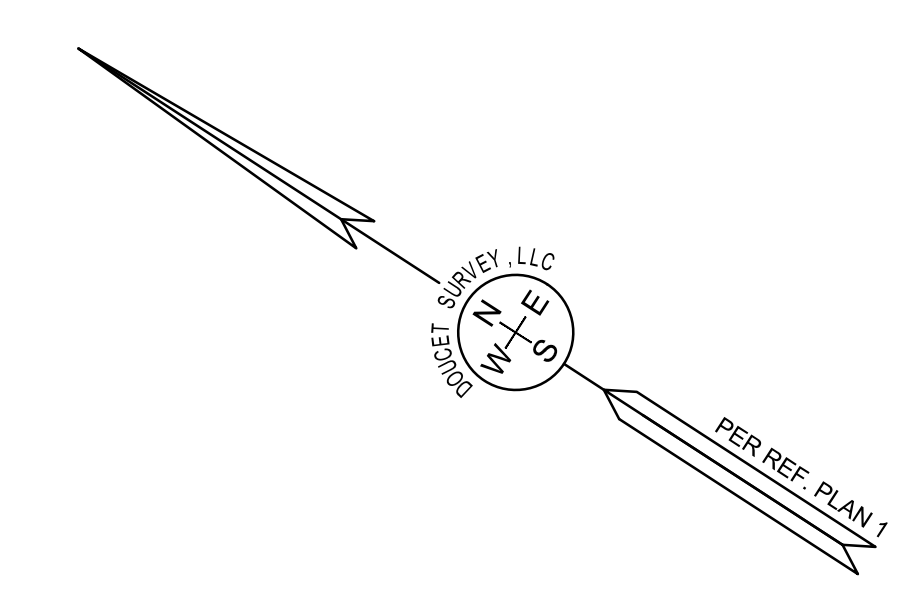
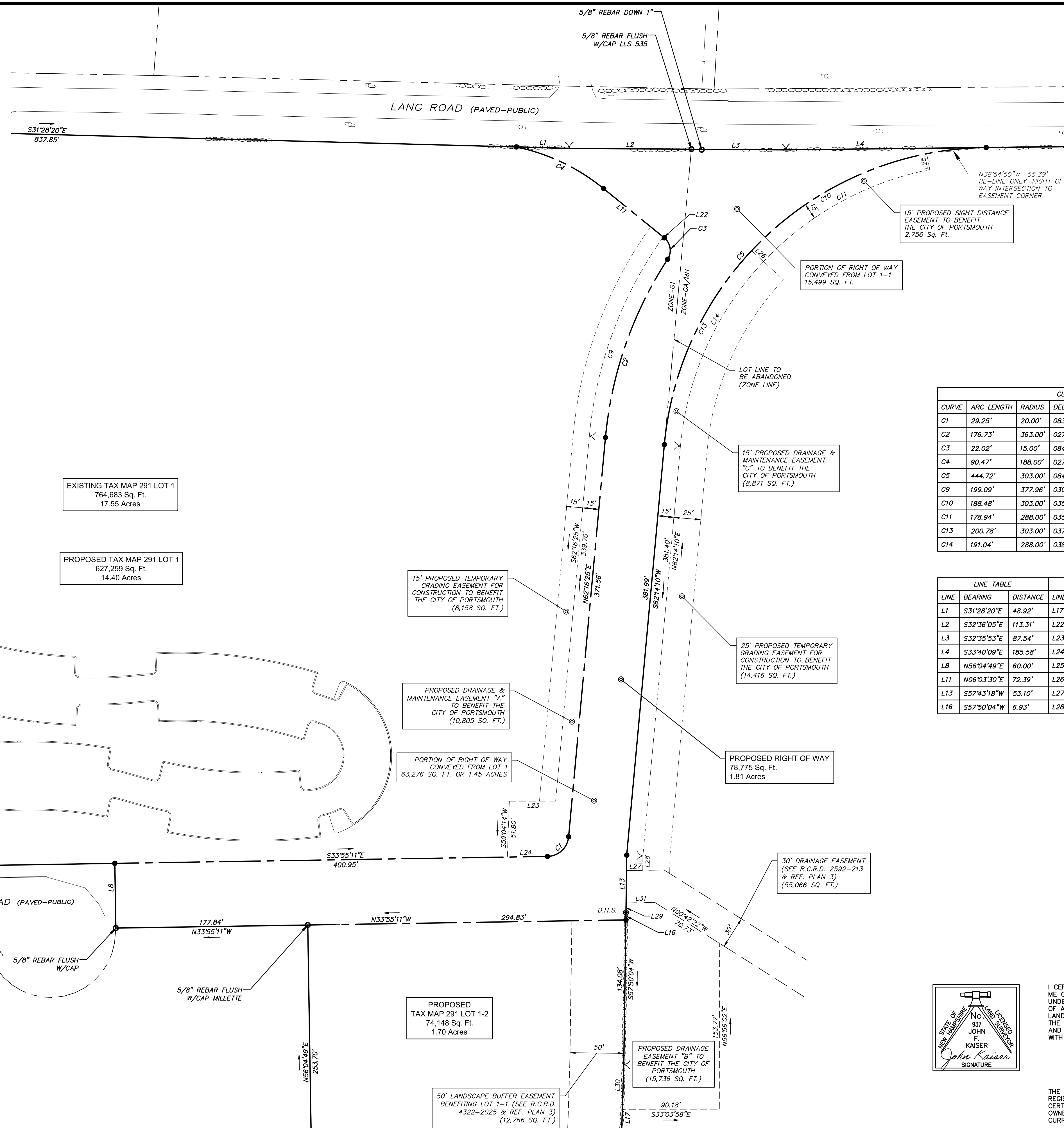
- REFERENCE PLANS:**
- "TOPOGRAPHIC PLAN FOR SERVICE CREDIT UNION OF 2995 LAFAYETTE ROAD/US ROUTE 1, PORTSMOUTH, NEW HAMPSHIRE" DATED JANUARY 8, 2010 BY DOUCET SURVEY, INC.
 - "LOT LINE RELOCATION PLAN FOR RALPH'S TRUCK SALES, INC., ET AL" DATED AUGUST 26, 1999 BY MILLETTE, SPRAGUE & COLWELL, INC. R.C.R.D. PLAN D-27623.
 - "EASEMENT PLAN FOR RALPH'S TRUCK SALES, INC., SIEGEL LIMITED PARTNERSHIP, OCEAN CASTLE LIMITED PARTNERSHIP, AND LANG + LONG MEADOW DEVELOPMENT LLC, LANG ROAD AND LONG MEADOW ROAD, COUNTY OF ROCKINGHAM, PORTSMOUTH, NH" DATED AUGUST 26, 2003 AND REVISED THROUGH 7/08/04 BY MILLETTE, SPRAGUE & COLWELL, INC. R.C.R.D. PLAN D-31845.
 - "PLAN OF PORTSMOUTH FG-F-001(5) - P-3844" DATED 4-13-84. R.C.R.D. PLAN D-17184. TAKINGS ALONG THE SUBJECT PREMISES ARE PER R.C.R.D. BK. 2592 PG. 213 & BK. 2908 PG. 014.
 - "SUBDIVISION PLAN FOR RALPH'S TRUCK SALES, INC. 2995 LAFAYETTE ROAD, COUNTY OF ROCKINGHAM, PORTSMOUTH, NH" DATED JANUARY 14, 1987 WITH A REVISION OF 4/7/97 BY RICHARD P. MILLETTE AND ASSOCIATES. R.C.R.D. PLAN D-25369.
 - "SUBDIVISION OF LAND PORTSMOUTH, NH FOR LONGMEADOW, INC." DATED DECEMBER 1976 BY JOHN W. DURGIN. R.C.R.D. PLAN D-7743.
 - "BOUNDARY PLAN FOR THE CITY OF PORTSMOUTH OF TAX MAP 291 LOT 1 & LOT 1-1 LAFAYETTE ROAD (US ROUTE 1), LONGMEADOW ROAD & LANG ROAD PORTSMOUTH, NEW HAMPSHIRE" DATED SEPTEMBER 6, 2018 BY DOUCET SURVEY, INC.

John Kaiser
 L.L.S. #937
 DATE

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

L.L.S. #937
 DATE

THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.



CURVE TABLE

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	29.25'	20.00'	083°48'25"	S75°49'23"E	26.72'
C2	176.73'	363.00'	027°53'42"	N76°13'15"E	174.99'
C3	22.02'	15.00'	084°06'37"	N48°06'48"E	20.10'
C4	90.47'	188.00'	027°34'14"	N07°29'03"W	89.60'
C5	444.72'	303.00'	084°05'41"	N75°43'00"W	405.87'
C9	199.09'	377.96'	030°10'48"	S77°21'43"W	196.79'
C10	188.48'	303.00'	035°38'23"	N61°58'42"W	185.45'
C11	178.94'	288.00'	035°35'54"	S61°57'28"E	176.07'
C13	200.78'	303.00'	037°57'56"	S81°13'08"W	197.12'
C14	191.04'	288.00'	038°00'25"	S81°14'22"W	187.56'

LINE TABLE

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	S31°28'20"E	48.92'	L17	S58°49'05"W	120.88'	L29	S57°43'18"W	8.81'
L2	S32°36'05"E	113.31'	L22	N06°03'30"E	1.25'	L30	S58°49'05"W	41.48'
L3	S32°35'53"E	87.54'	L23	N33°07'59"W	42.91'	L31	N33°50'11"W	26.74'
L4	S33°40'09"E	185.58'	L24	S33°55'11"E	37.20'			
L8	N56°04'49"E	60.00'	L25	S45°50'29"W	15.00'			
L11	N06°03'30"E	72.39'	L26	N09°24'20"E	15.00'			
L13	S57°43'18"W	53.10'	L27	S33°50'11"E	15.01'			
L16	S57°50'04"W	6.93'	L28	N57°43'18"E	13.28'			



SUBDIVISION PLAN
OF
SERVICE FEDERAL CREDIT UNION
(TAX MAP 291 LOT 1 & LOT 1-1)
FOR THE
CITY OF PORTSMOUTH
LAFAYETTE ROAD (US ROUTE 1),
LONGMEADOW ROAD & LANG ROAD
PORTSMOUTH, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY
3	02/11/21	ISSUE MYLAR	M.T.L.
2	11/04/20	ADD ADDITIONAL EASEMENTS	M.T.L.
1	03/15/19	ADD PROPOSED DRAINAGE EASEMENT B	M.T.L.

DRAWN BY:	M.T.L.	DATE:	JANUARY 10, 2019
CHECKED BY:	J.F.K.	DRAWING NO.:	5539B
JOB NO.:	5539	SHEET	3 OF 3

JOHN KAISER
 SIGNATURE

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

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 DATE

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GENERAL NOTES:

- 1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
2. COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH.
3. THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES.
...
11. SEE EXISTING CONDITIONS PLAN FOR BENCH MARK INFORMATION.

DEMOLITION NOTES:

- 1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
2. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
...
16. THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING GRANITE CURB FOR REUSE.

SITE NOTES:

- 1. PAVEMENT MARKINGS SHALL BE INSTALLED AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, FIRE LANES, CROSS WALKS, ARROWS, LEGENDS AND CENTERLINES. ALL MARKINGS EXCEPT CENTERLINE AND MEDIAN ISLANDS TO BE CONSTRUCTED USING WHITE PAVEMENT MARKINGS. ALL THERMOPLASTIC PAVEMENT MARKINGS INCLUDING LEGENDS, ARROWS, CROSSWALKS AND STOP BARS SHALL MEET THE REQUIREMENTS OF AASHTO M249. ALL PAINTED PAVEMENT MARKINGS INCLUDING CENTERLINES, LANE LINES AND PAINTED MEDIANS SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F".
2. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
...
8. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.

GRADING AND DRAINAGE NOTES:

- 1. COMPACTION REQUIREMENTS:
BELOW PAVED OR CONCRETE AREAS 95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL 95%
BELOW LOAM AND SEED AREAS 90%
* ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
...
7. ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4' SUMPS.

EROSION CONTROL NOTES:

- 1. SEE SHEET C-501 FOR GENERAL EROSION CONTROL NOTES AND DETAILS.

UTILITY NOTES:

- 1. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
• WATER - CITY OF PORTSMOUTH
• ELECTRIC - EVERSOURCE
• COMMUNICATIONS - FAIRPOINT & COMCAST
2. ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, CEMENT LINED DUCTILE IRON PIPE. ALL WATER MAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION PRIOR TO ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE CHLORINATION AND TESTING WITH THE CITY OF PORTSMOUTH WATER DEPARTMENT.
...
12. CONTRACTOR TO INSTALL AND FURNISH LIGHT POLE BASE, 24' LIGHT POLE, 8' ARM AND LED LIGHT HEAD. LED LIGHT HEAD TO BE PROVIDED BY THE CITY OF PORTSMOUTH.

LANDSCAPE NOTES:

- 1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. NO SUBSTITUTIONS WILL BE PERMITTED UNLESS APPROVED BY OWNER. ALL PLANTS SHALL BE NURSERY GROWN.
2. ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS, INCLUDING BUT NOT LIMITED TO SIZE, HEALTH, SHAPE, ETC., AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO ARRIVAL ON-SITE AND AFTER PLANTING.
...
17. EXISTING TREES AND SHRUBS SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES AND SHRUBS SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION,

- 18. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR.
19. UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE INCLUDING WATERING DURING PERIODS OF DROUGHT
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.
21. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO PRE-DIG CERTAIN SPECIES WELL IN ADVANCE OF ACTUAL PLANTING DATES.

REFERENCE PLANS:

- 1. "TOPOGRAPHIC WORKSHEET" PREPARED BY DOUCET SURVEY, INC., DATED JULY 20, 2018.

LEGEND

Legend table mapping symbols to descriptions such as: APPROXIMATE LIMIT OF PROPOSED SAW CUT, LIMIT OF WORK, EXISTING STORM DRAIN, EXISTING PROPERTY LINE, EXISTING DRAINAGE EASEMENT, EXISTING SANITARY SEWER, EXISTING OVERHEAD UTILITY, PROPOSED STORM DRAIN, PROPOSED WATER, PROPOSED SEWER FORCE MAIN SLEEVE, PROPERTY LINE, PROPOSED R.O.W., PROPOSED EDGE OF PAVEMENT, PROPOSED CURB, PROPOSED GRAVEL DRIVE, PROPOSED STONEWALL, PROPOSED UNDERDRAIN, PROPOSED FUTURE CONDUIT, PROPOSED MAJOR CONTOUR LINE, PROPOSED MINOR CONTOUR LINE, PROPOSED SILT SOCK, EXISTING EDGE OF WETLAND, APPROXIMATE LIMIT OF PAVEMENT TO BE REMOVED, APPROXIMATE LIMIT OF CLEARING AND GRUBBING, PROPOSED PAVEMENT SECTION, PROPOSED PAVEMENT TO BE RESURFACED, PROPOSED GRAVEL SECTION, PROPOSED RIPRAP, EXISTING CATCHBASIN, EXISTING DRAIN MANHOLE, EXISTING SEWER MANHOLE, EXISTING HYDRANT, EXISTING WATER VALVE, PROPOSED CATCHBASIN, PROPOSED DRAIN MANHOLE, INLET PROTECTION SILT SACK, PROPOSED WATER VALVE, PROPOSED HYDRANT, PROPOSED LIGHT POLE BASE, PROPOSED SPOT GRADE, ABBREVIATIONS table.



Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350 X-A004(818)

Revision table with columns for Mark, Date, and Description. Includes entries for Final Design Submission (1/29/2021), NHDOT Comments (10/21/2020), Revised AoT Submission (3/4/2019), P.B. Submission (2/11/2019), P.D. Submission (1/7/2019), and AoT Submission (1/7/2019).

GENERAL NOTES, LEGEND & ABBREVIATIONS

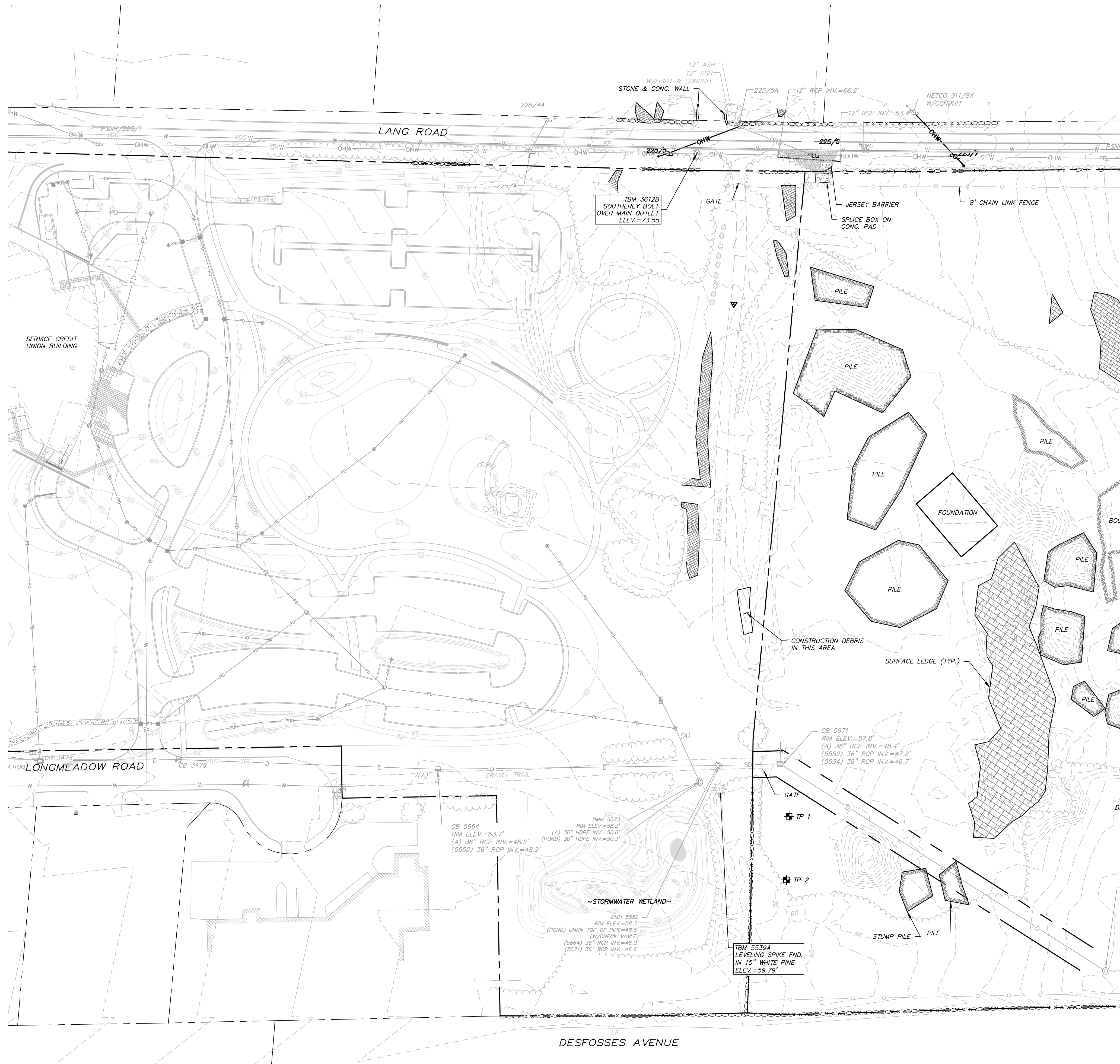
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C-100

Plot: 1/27/2021, 9:42am By: CKC/CLK, Printed On: 3/1/2021, 9:42am By: CKC/CLK, Figure & Bond: 217/P/24 City of Portsmouth (005 - Lang - Longmeadow Road Extension Drawings - Figures/Autocad/View/P-0714-005-C-DSGN.dwg

LEGEND

---	LOT LINE
- - -	APPROXIMATE ABUTTERS LOT LINE
○ ○ ○ ○	STONE WALL
○ ○ ○ ○	REMNANT STONE WALL
○ ○ ○ ○	CHAIN LINK FENCE
○ ○ ○ ○	OVERHEAD WIRE
SD	DRAIN LINE
100	MAJOR CONTOUR LINE
98	MINOR CONTOUR LINE
○ ○ ○ ○	TREE LINE
- - -	EDGE OF WETLAND
- - -	STREAM
▨	CONCRETE
▨	CRUSHED STONE
○	UTILITY POLE
○	UTILITY POLE & GUY WIRE
○	SIGN
○	POST
○	FIRE HYDRANT
○	WATER GATE VALVE
○	CATCH BASIN
○	DRAIN MANHOLE
○	FLARED END SECTION
○	WETLAND AREA
○	CONIFEROUS TREE
○	DECIDUOUS TREE
○	LEDGE OUTCROP
○	CONC.
○	EP
○	EDGE OF PAVEMENT



NOTES:

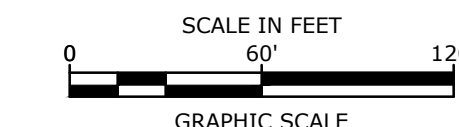
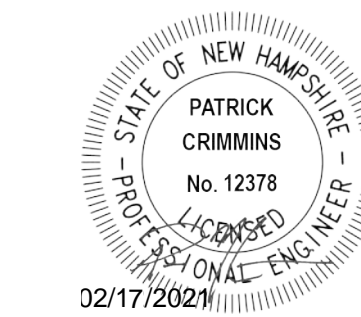
1. REFERENCE: PROPOSED LONGMEADOW ROAD EXTENSION
2. FIELD SURVEY PERFORMED BY DOUCET SURVEY DURING DECEMBER 2015 USING A TRIMBLE 5603 TOTAL STATION AND A TRIMBLE R8 SURVEY GRADE GPS UNIT WITH A TRIMBLE TSC3 DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL AND DURING JUNE & JULY 2018 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TSC3 DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS. ADDITIONAL SURVEY PERFORMED ON SEPT. 14, 2020.
3. HORIZONTAL DATUM BASED ON PLAN REFERENCE 1.
4. VERTICAL DATUM IS BASED ON NGVD 29 (SURVEY DISK "GPS ROBE, 379-0870").
5. PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, INC. WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
6. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES/TYPES IS SUBJECT TO NUMEROUS FIELD CONDITIONS, INCLUDING: THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS, MANHOLE CONFIGURATION, ETC.
7. ALL ELECTRIC, GAS, TEL. WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

TEST PIT LOGS:

- TEST PIT #1**
EXISTING SURFACE ELEVATION: 57.40
SHWT: 51.40'
BEDROCK: N/A
BOTTOM OF TEST PIT: 47.40'
- TEST PIT #2**
EXISTING SURFACE ELEVATION: 56.40'
SHWT: 51.23'
BEDROCK: N/A
BOTTOM OF TEST PIT: 48.74'

REFERENCE PLANS:

1. "TOPOGRAPHIC PLAN FOR SERVICE CREDIT UNION OF 2995 LAYAFAYETTE ROAD/US ROUTE 1, PORTSMOUTH, NEW HAMPSHIRE" DATED JANUARY 8, 2010 BY DOUCET SURVEY, INC.
2. "LOT LINE RELOCATION PLAN FOR RALPH'S TRUCK SALES, INC., ET AL" DATED AUGUST 26, 1999 BY MILLETTE, SPRAGUE & COLWELL, INC. R.C.R.D. PLAN D-27623.



Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

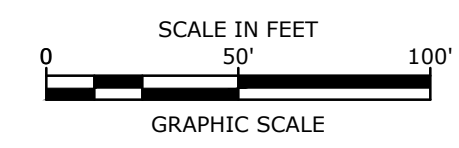
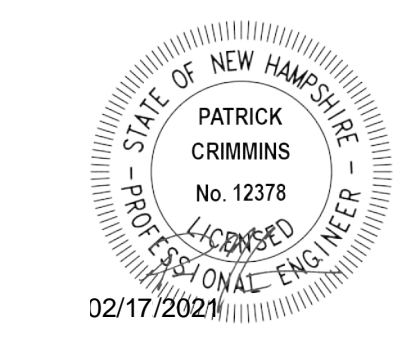
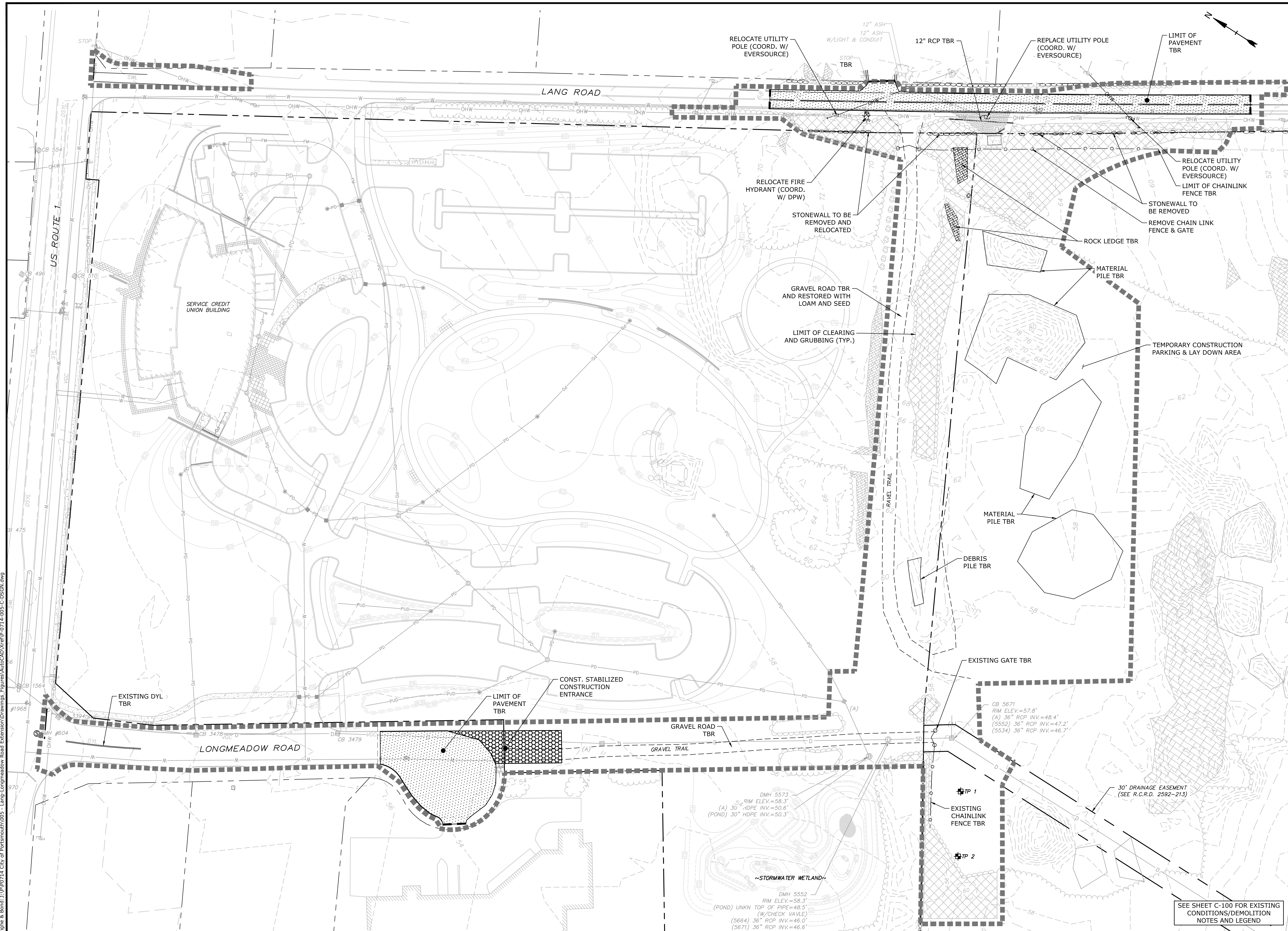
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F	1/29/2021	Final Design Submission
E	10/21/2020	NHDOT Comments
D	3/4/2019	Revised Aot Submission
C	2/11/2019	P.B. Submission
B	1/7/2019	P.D. Submission
A	1/7/2019	Aot Submission

PROJECT NO:	P-0714-005
DATE:	October 21, 2019
FILE:	P-0714-005-V-SURV.dwg
DRAWN BY:	NAH/CLK
CHECKED:	PMC
APPROVED:	BLM

EXISTING CONDITIONS PLAN

SCALE: AS SHOWN

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Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

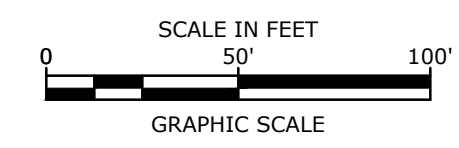
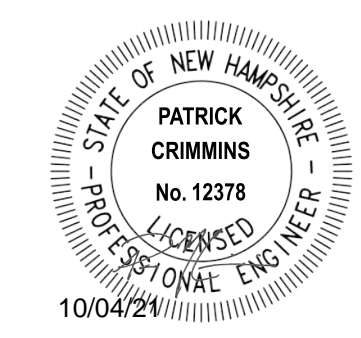
Portsmouth #42350
X-A004(818)

MARK	DATE	DESCRIPTION
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E	10/21/2020	NHDOT Comments
D	3/4/2019	Revised AoT Submission
C	2/11/2019	P.B. Submission
B	1/7/2019	P.D. Submission
A	1/7/2019	AoT Submission

PROJECT NO:	P-0714-005
DATE:	October 21, 2019
FILE:	P-0714-005-C-DSGN.dwg
DRAWN BY:	NAH/CLK
CHECKED:	PMC
APPROVED:	BLM

DEMOLITION PLAN
SCALE: AS SHOWN
C-102

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 Plotted On: 1/27/2021, 9:42am By: Ckrzouk
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Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

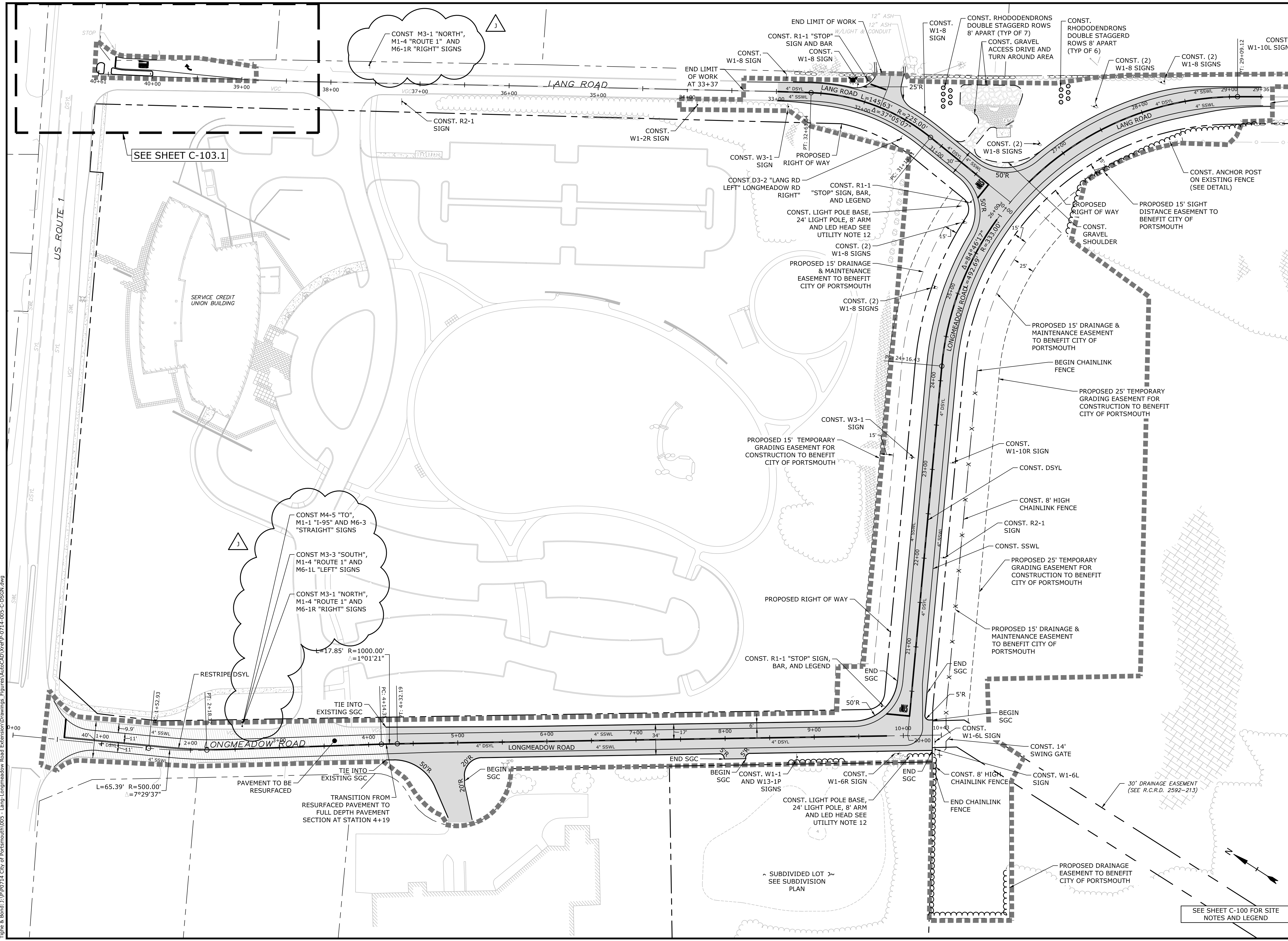
Portsmouth #42350
X-A004(818)

MARK	DATE	DESCRIPTION
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I	8/11/2021	Bureau of Traffic Comments
H	7/14/2021	NHDOT Comments
G	4/21/2021	AoT RFMI
F	1/29/2021	Final Design Submission
E	10/21/2020	NHDOT Comments
D	3/4/2019	Revised AoT Submission
C	2/11/2019	P.B. Submission

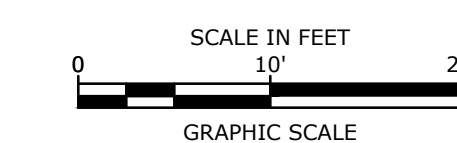
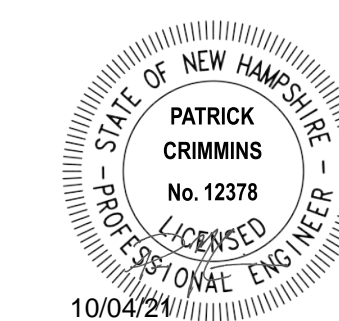
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DATE:	October 21, 2019
FILE:	P-0714-005-C-DSGN.dwg
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OVERALL ROADWAY PLAN

SCALE: AS SHOWN



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 Plotted On: Oct 05, 2021 8:07am By: Wahanien
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Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

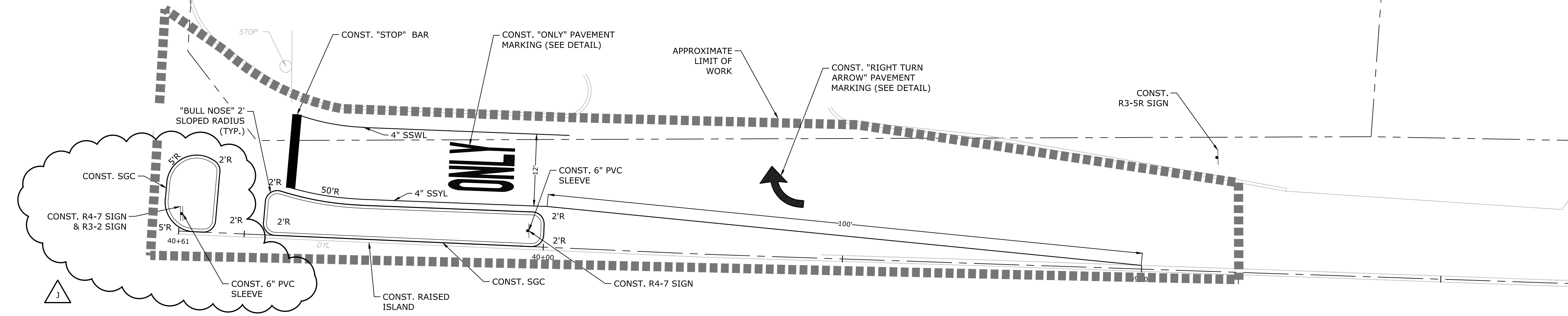
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G	4/21/2021	AoT RFMI
F	1/29/2021	Final Design Submission
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D	3/4/2019	Revised AoT Submission
C	2/11/2019	P.B. Submission

PROJECT NO:	P-0714-005
DATE:	October 21, 2019
FILE:	P-0714-005-C-DSGN.dwg
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PROPOSED ROADWAY PLAN

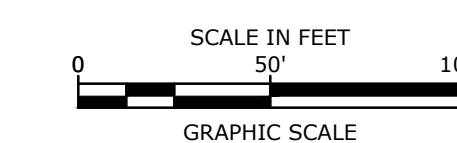
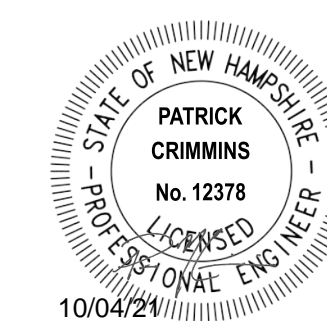
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C-103.1



SEE SHEET C-100 FOR SITE NOTES AND LEGEND

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Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

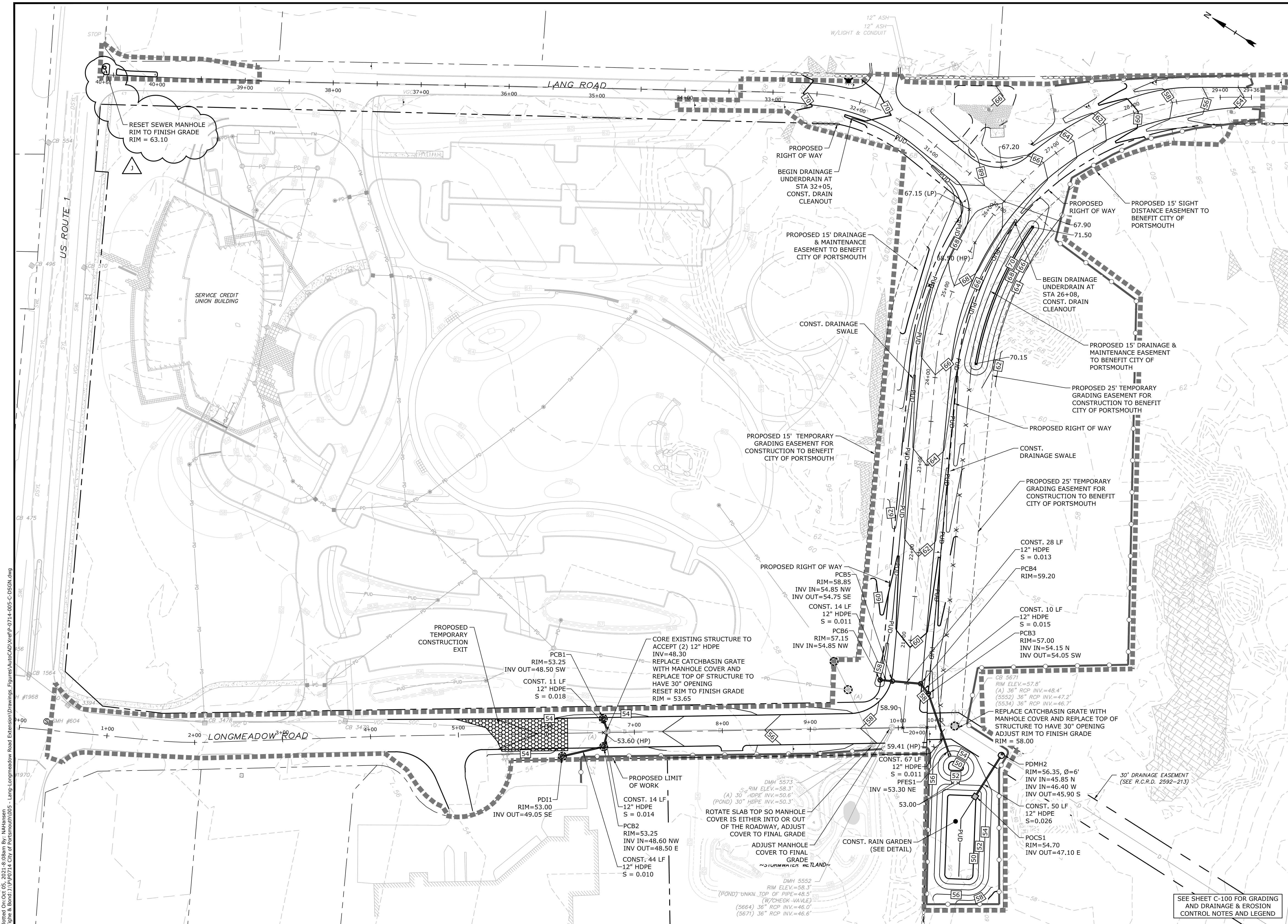
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H	7/14/2021	NHDOT Comments
G	4/21/2021	AoT RFMI
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PROJECT NO:	P-0714-005
DATE:	October 21, 2019
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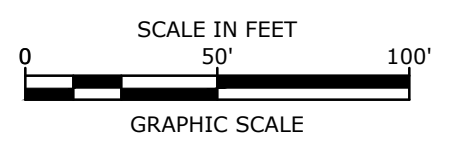
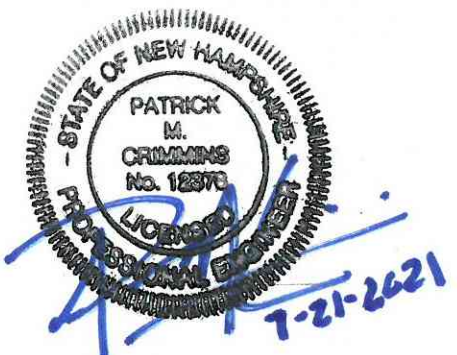
GRADING, DRAINAGE, & EROSION CONTROL PLAN

SCALE: AS SHOWN

C-104



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 Plotted On: Oct 05, 2021, 9:03am By: WJahansen
 Figure & Detail: P-0714-005-C-DSGN.dwg
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Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

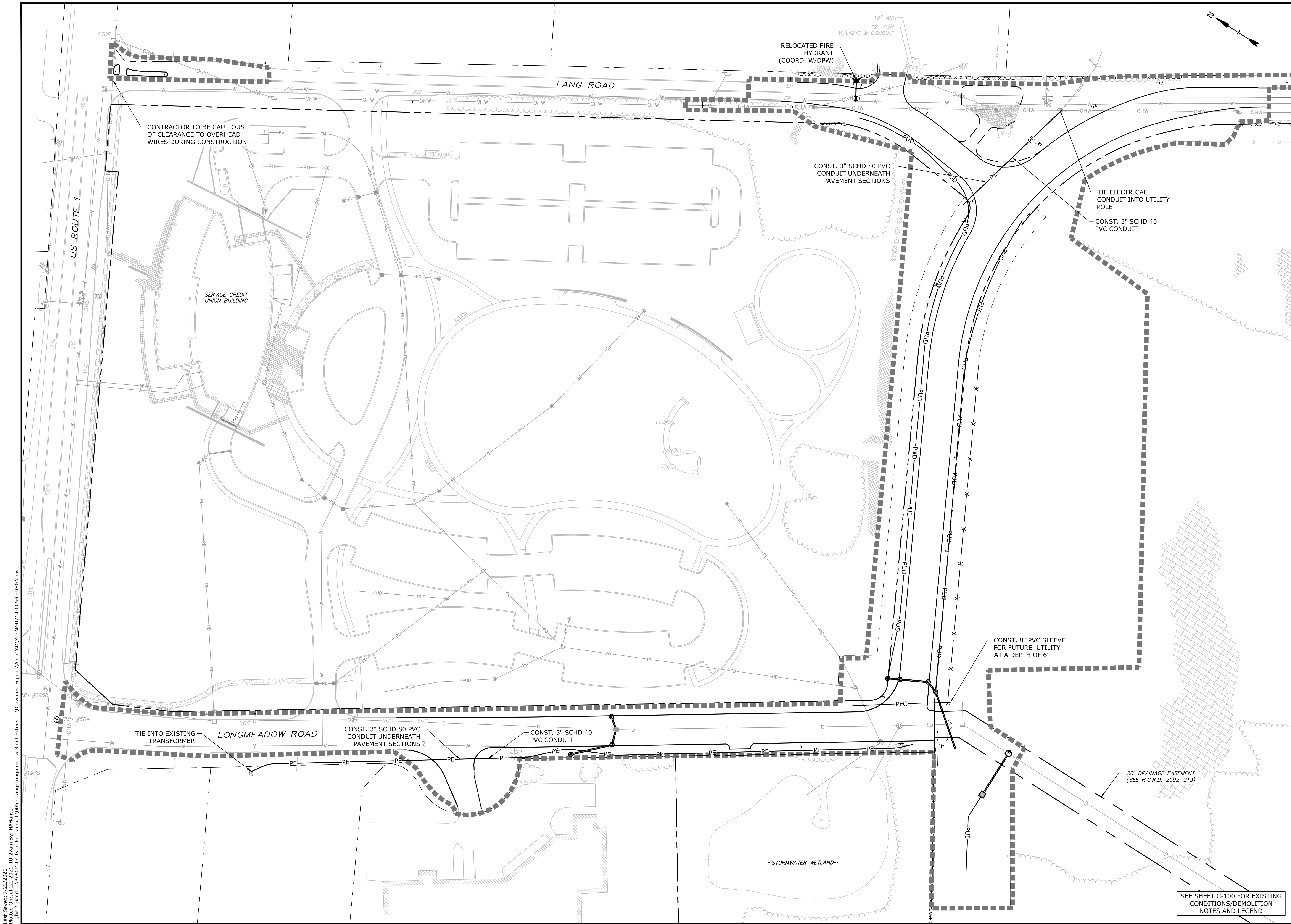
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H	7/14/2021	NHDOT Comments
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F	1/29/2021	Final Design Submission
E	10/21/2020	NHDOT Comments
D	3/4/2019	Revised AoT Submission
C	2/11/2019	P.B. Submission
B	1/7/2019	P.D. Submission
A	1/7/2019	AoT Submission
MARK	DATE	DESCRIPTION

PROJECT NO:	P-0714-005
DATE:	October 21, 2019
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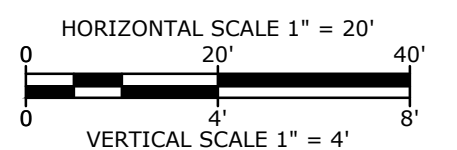
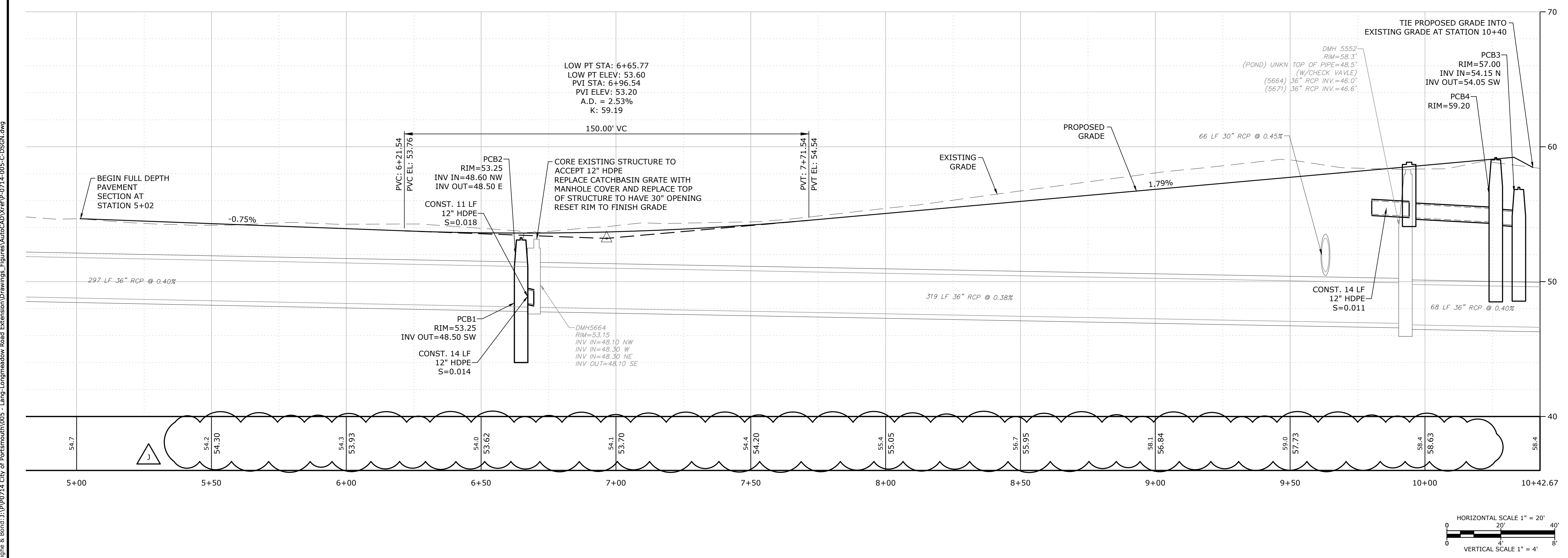
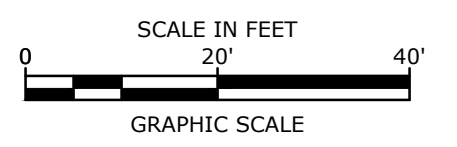
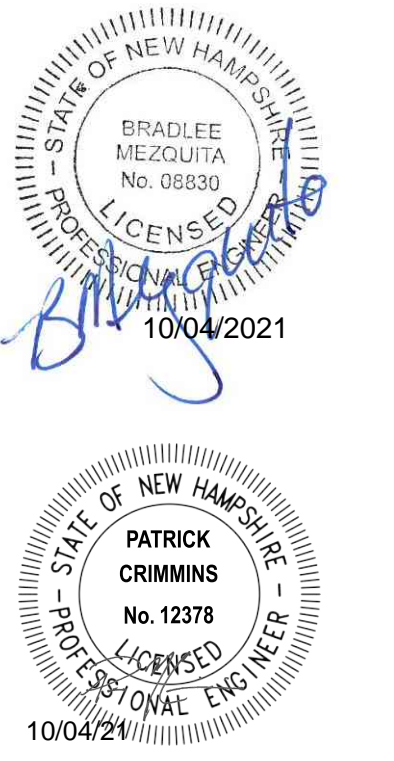
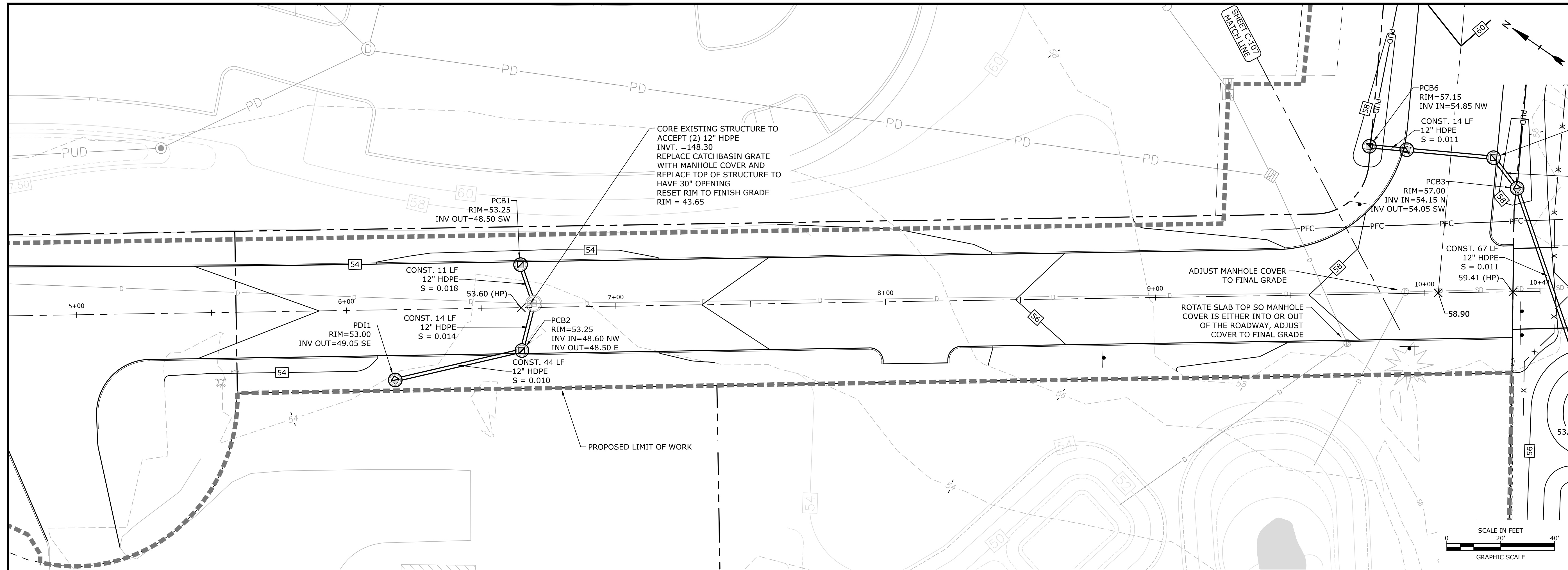
UTILITIES PLAN

SCALE: AS SHOWN

C-105



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Longmeadow Road Extension

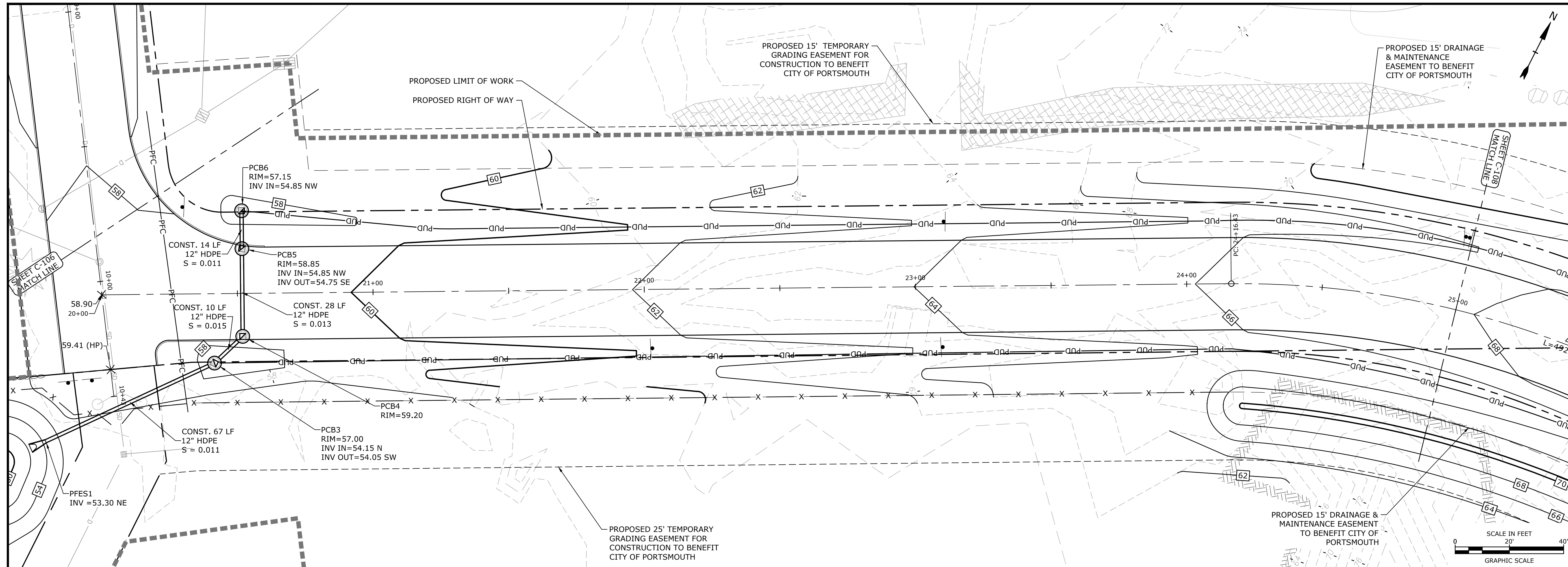
City of Portsmouth
Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

MARK	DATE	DESCRIPTION
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I	8/11/2021	Bureau of Traffic Comments
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E	10/21/2020	NHDOT Comments
D	3/4/2019	Revised AoT Submission
C	2/11/2019	P.B. Submission

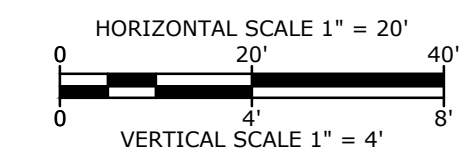
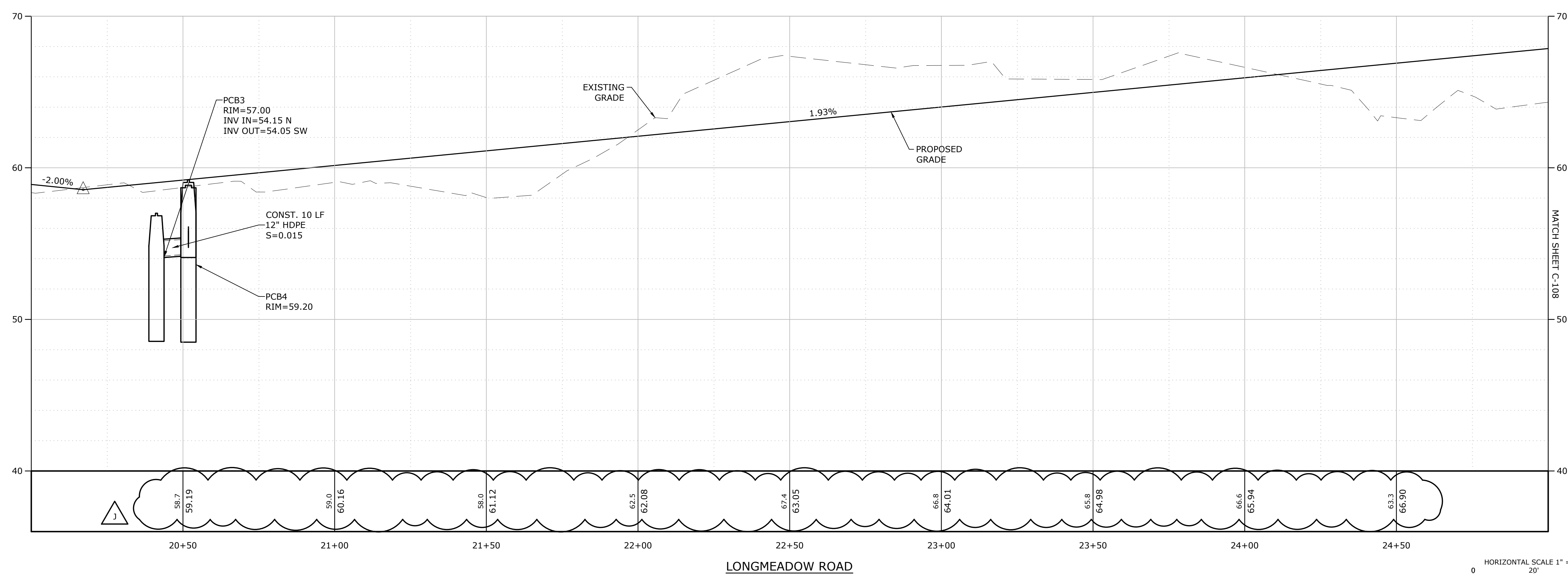
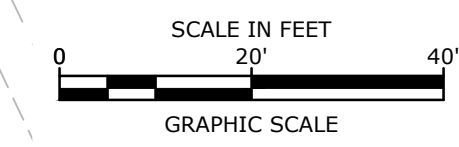
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DATE:	October 21, 2019
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LONGMEADOW ROAD PLAN & PROFILE	
SCALE:	AS SHOWN
C-106	

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 Plotted On: OCT 05, 2021 10:50:54 AM
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STATE OF NEW HAMPSHIRE
BRADLEE MEZQUITA
No. 08830
LICENSED PROFESSIONAL ENGINEER
10/04/2021

STATE OF NEW HAMPSHIRE
PATRICK CRIMMINS
No. 12378
LICENSED PROFESSIONAL ENGINEER
10/04/2021



Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

MARK	DATE	DESCRIPTION
J	10/4/2021	Add. 1 - Traffic Comments
I	8/11/2021	Bureau of Traffic Comments
H	7/14/2021	NHDOT Comments
G	4/21/2021	AoT RFMI
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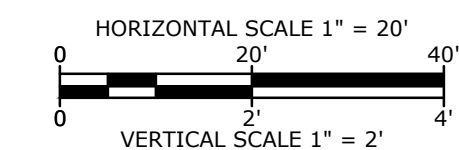
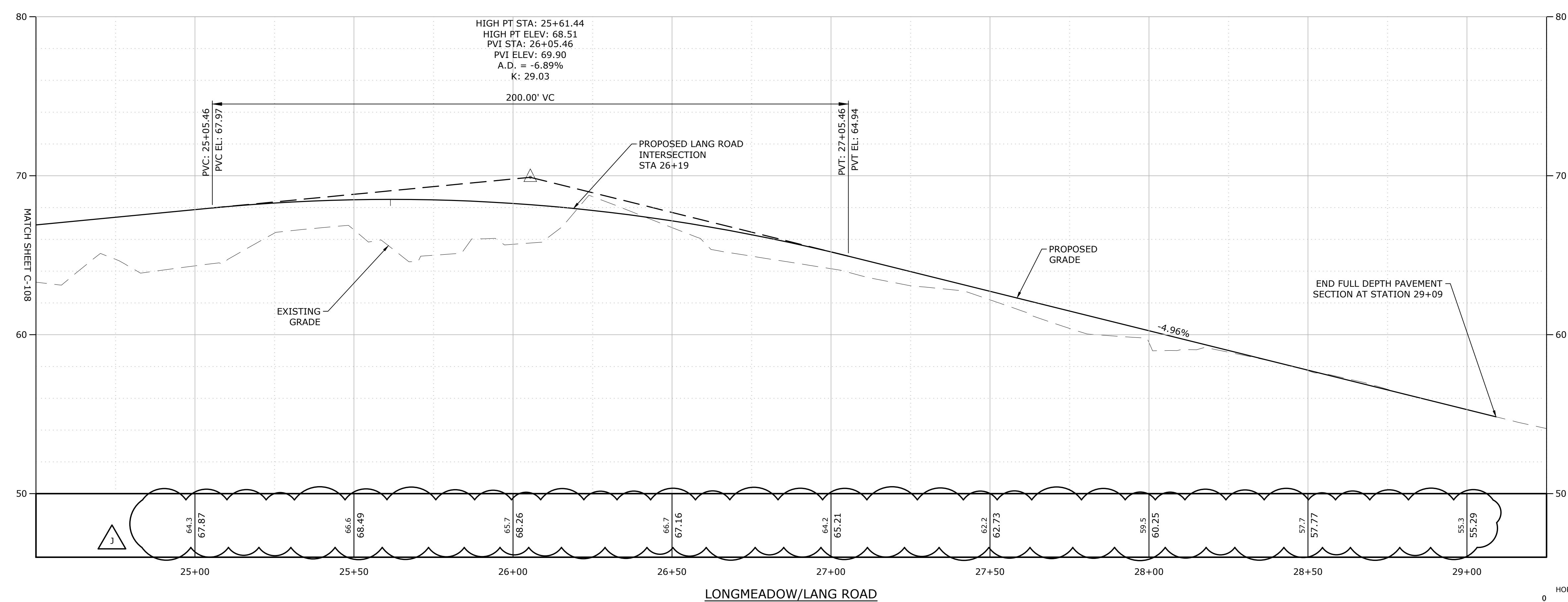
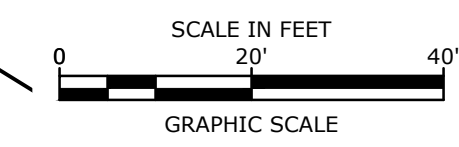
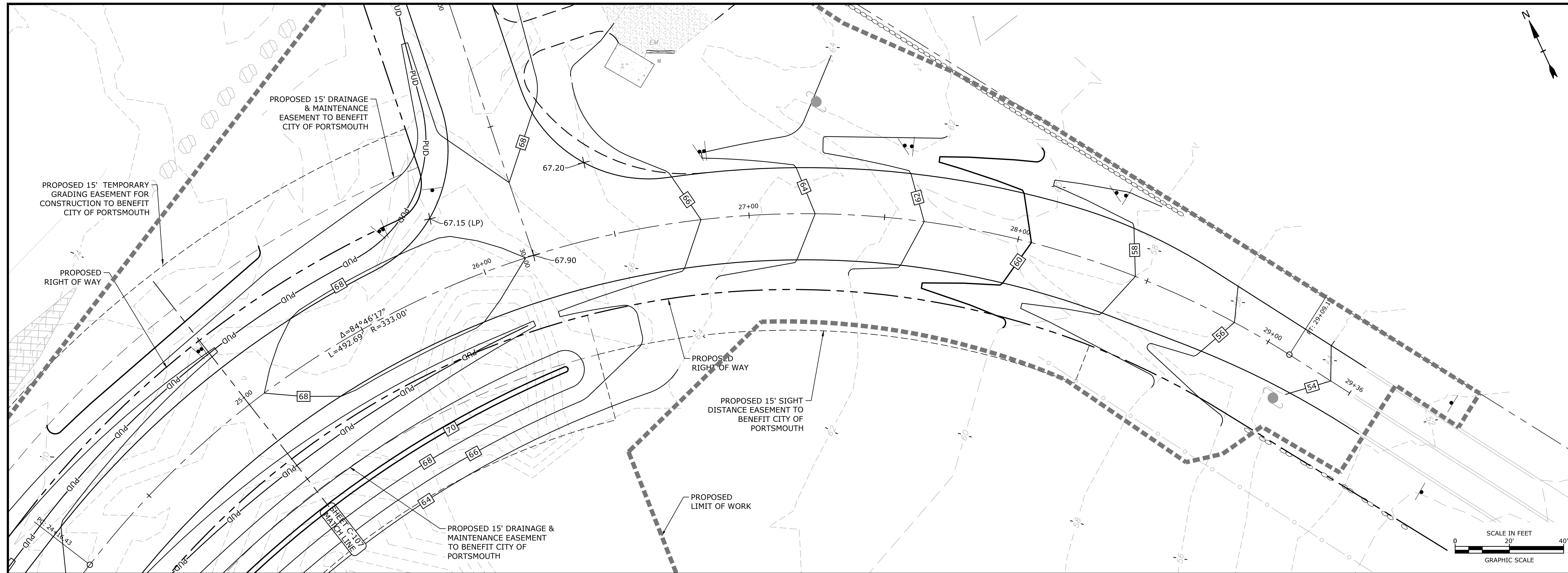
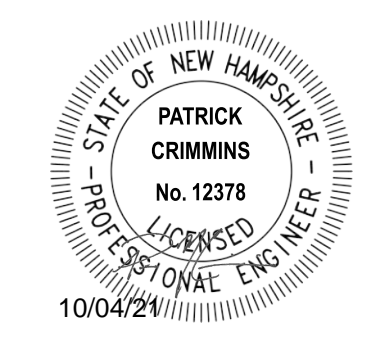
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DATE: October 21, 2019
FILE: P-0714-005-C-DSGN.dwg
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LANG ROAD EXTENSION PLAN & PROFILE

SCALE: AS SHOWN

C-107

Last Saved: 10/29/2021 12:22:29pm By: WJHansen
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 Figure & Sheet: P-0714-005-C-DSGN.dwg
 Figure: Lang Road Extension Drawings - Figures/AutoCAD/Drawings - Figures/AutoCAD/Drawings/P-0714-005-C-DSGN.dwg



Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

MARK	DATE	DESCRIPTION
J	10/4/2021	Add. 1 - Traffic Comments
I	8/11/2021	Bureau of Traffic Comments
H	7/14/2021	NHDOT Comments
G	4/21/2021	AoT RFMI
F	1/29/2021	Final Design Submission
E	10/21/2020	NHDOT Comments
D	3/4/2019	Revised AoT Submission
C	2/11/2019	P.B. Submission

PROJECT NO: P-0714-005

DATE: October 21, 2019

FILE: P-0714-005-C-DSGN.dwg

DRAWN BY: NAH/CIK

CHECKED: PMC

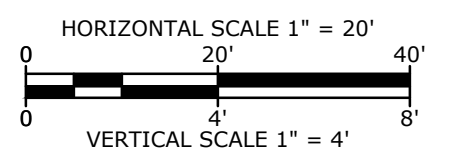
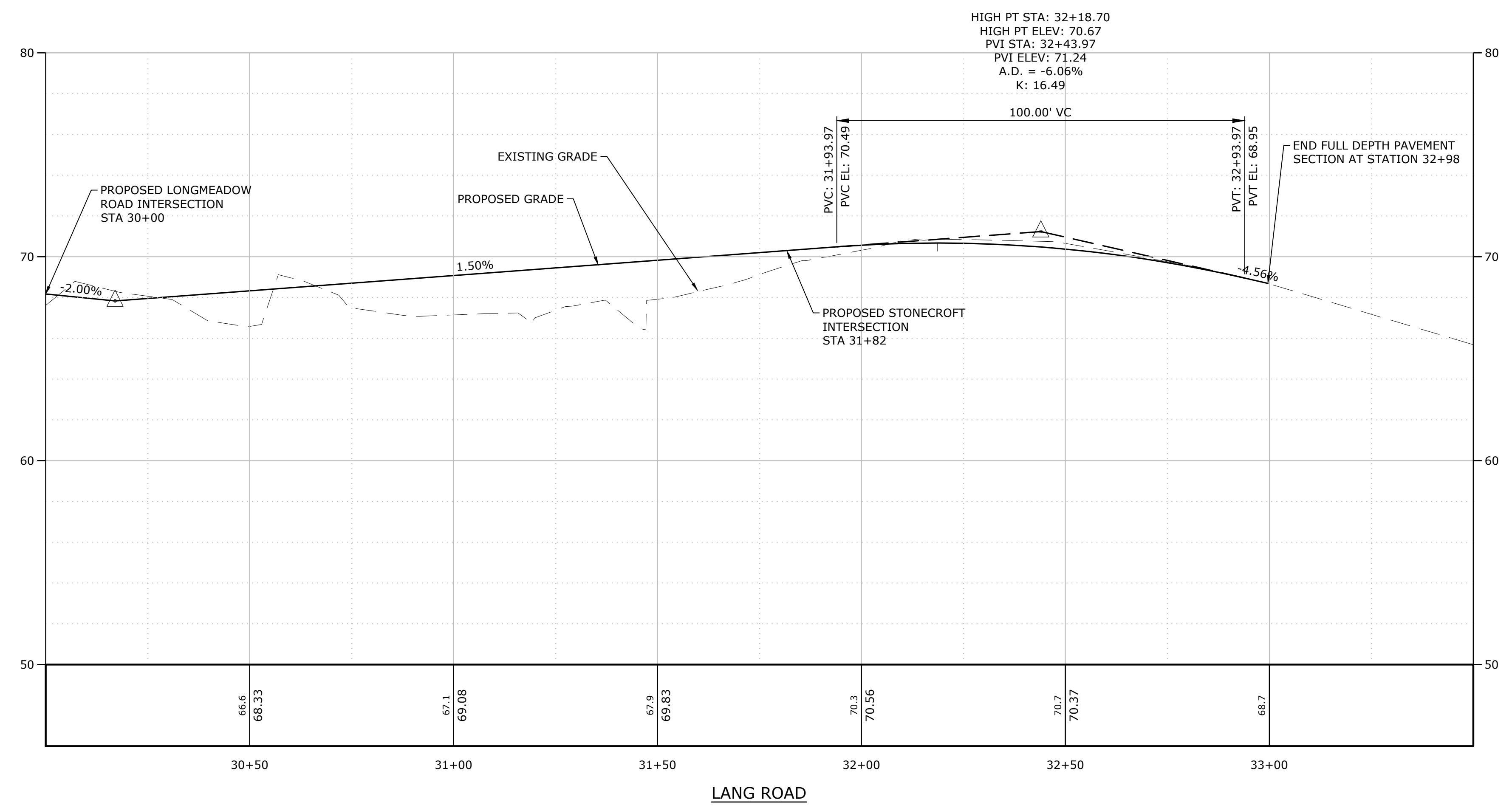
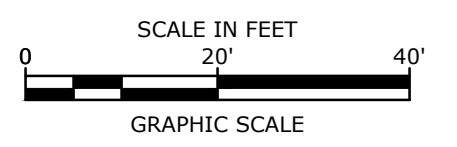
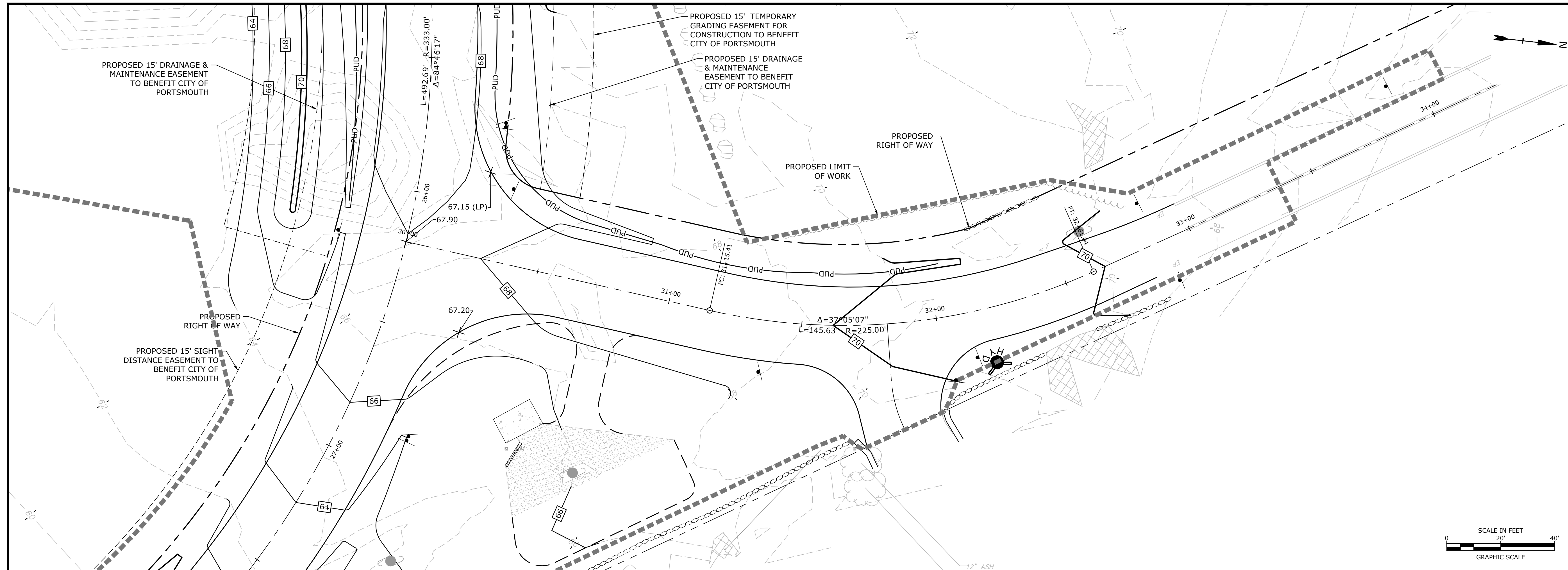
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LANG ROAD EXTENSION
PLAN & PROFILE

SCALE: AS SHOWN

C-108

Last Saved: 10/5/2021, 8:33am By: WAhansen
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Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

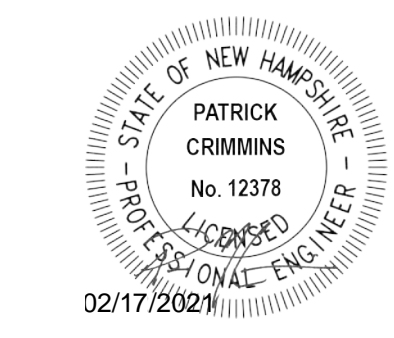
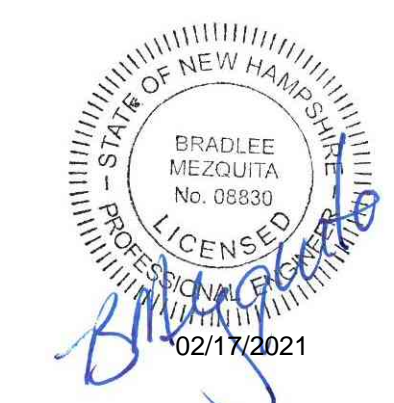
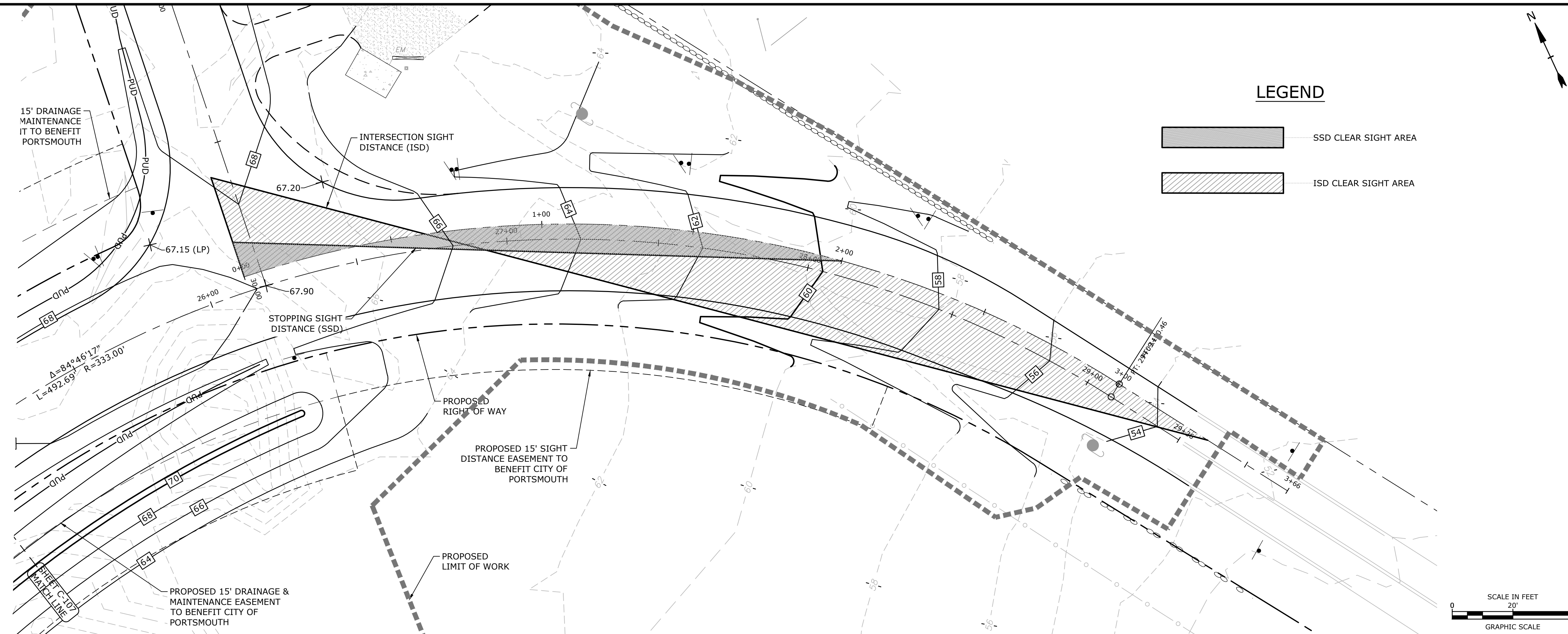
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E	10/21/2020	NHDOT Comments
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C	2/11/2019	P.B. Submission
B	1/7/2019	P.D. Submission
A	1/7/2019	AoT Submission

PROJECT NO:	P-0714-005
DATE:	October 21, 2019
FILE:	P-0714-005-C-DSGN.dwg
DRAWN BY:	NAH/CIK
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LANG ROAD PLAN & PROFILE

SCALE: AS SHOWN

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Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

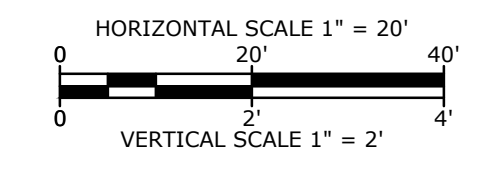
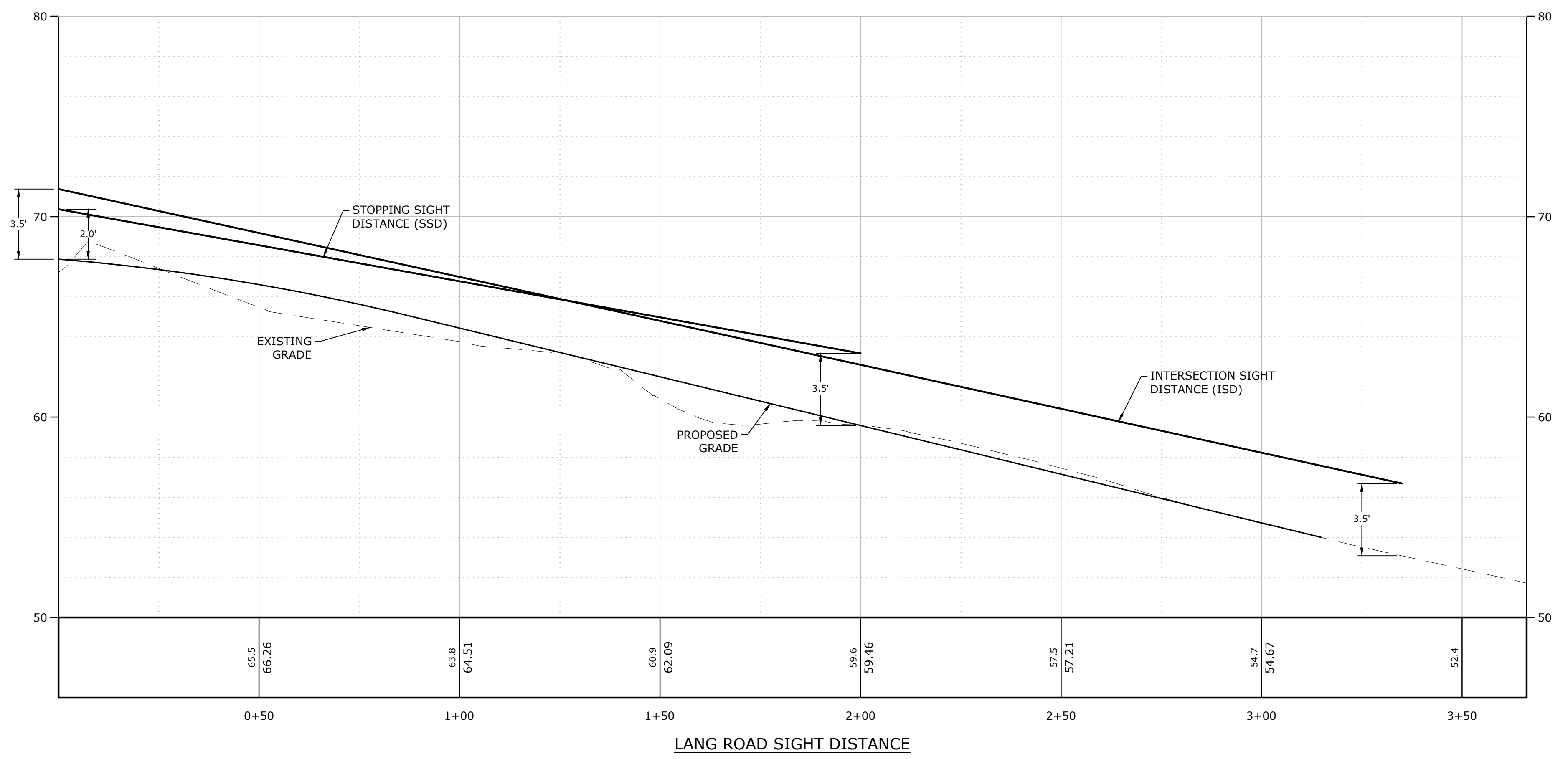
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DATE:	October 21, 2019
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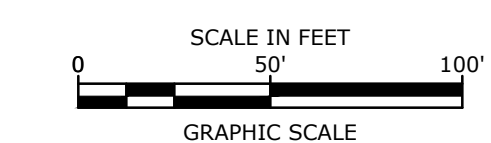
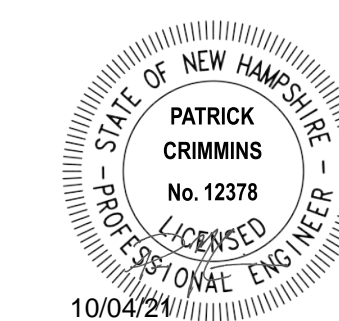
LANG ROAD SIGHT DISTANCE PLAN & PROFILE

SCALE: AS SHOWN

C-110



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Longmeadow Road Extension

City of Portsmouth

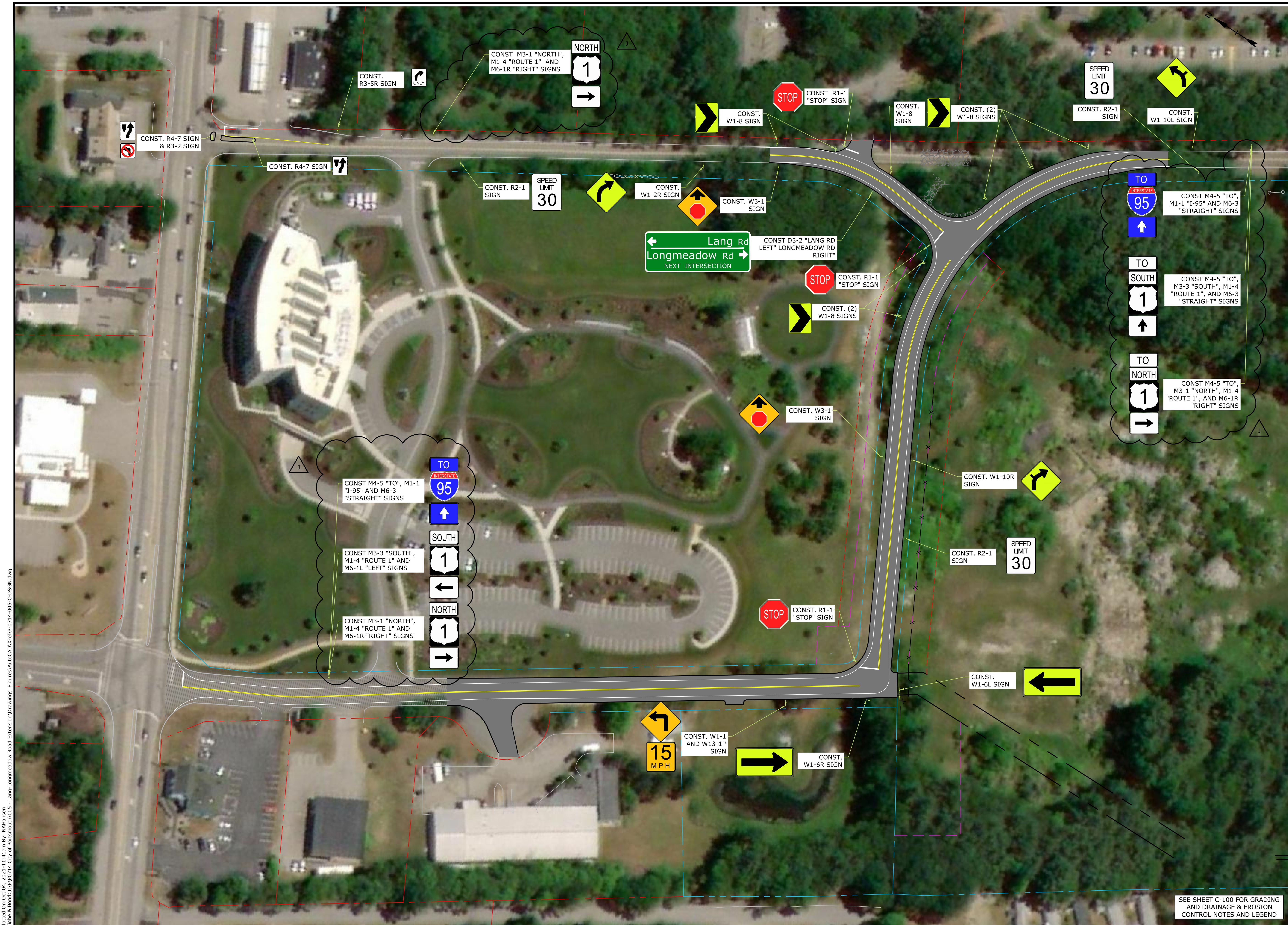
Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

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PROJECT NO:	P-0714-005
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FILE:	P-0714-005-C-DSGN.dwg
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SIGN LOCATION PLAN
SCALE: AS SHOWN
C-201



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SEE SHEET C-100 FOR GRADING AND DRAINAGE & EROSION CONTROL NOTES AND LEGEND



Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

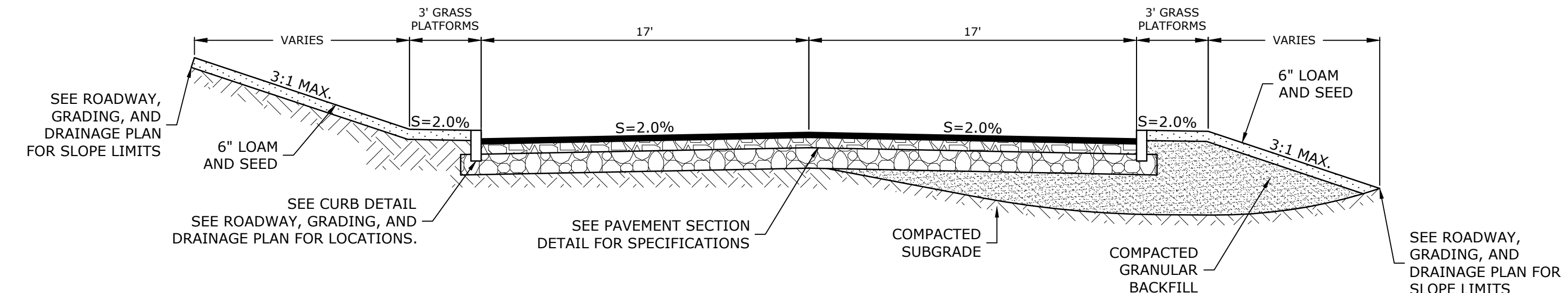
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I	8/11/2021	Bureau of Traffic Comments
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PROJECT NO:	P-0714-005
DATE:	October 21, 2019
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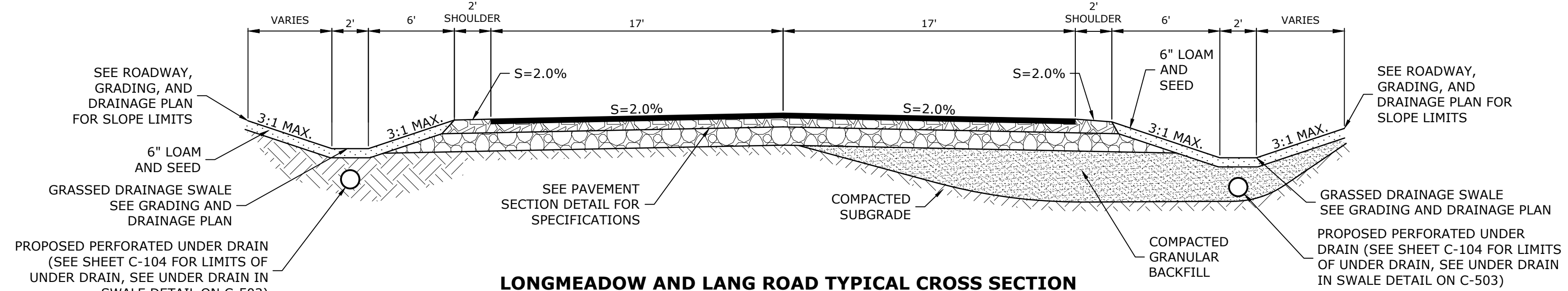
DETAILS SHEET

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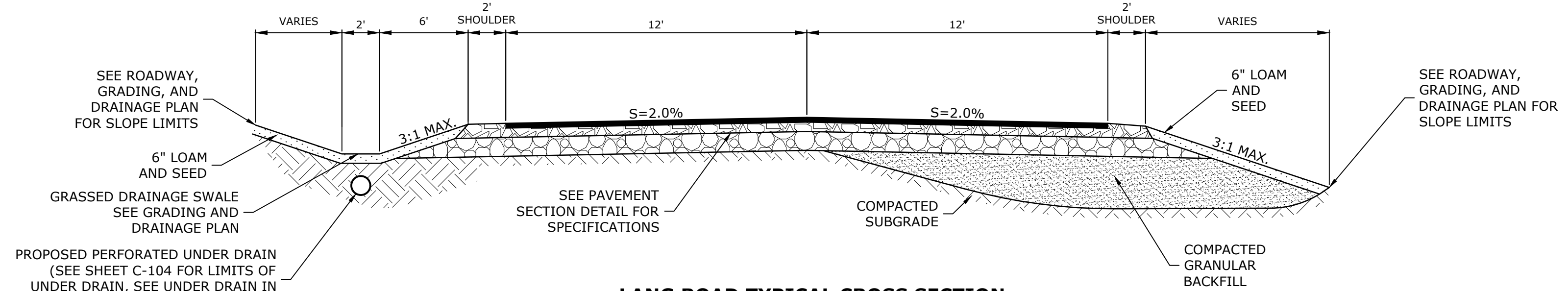
C-502



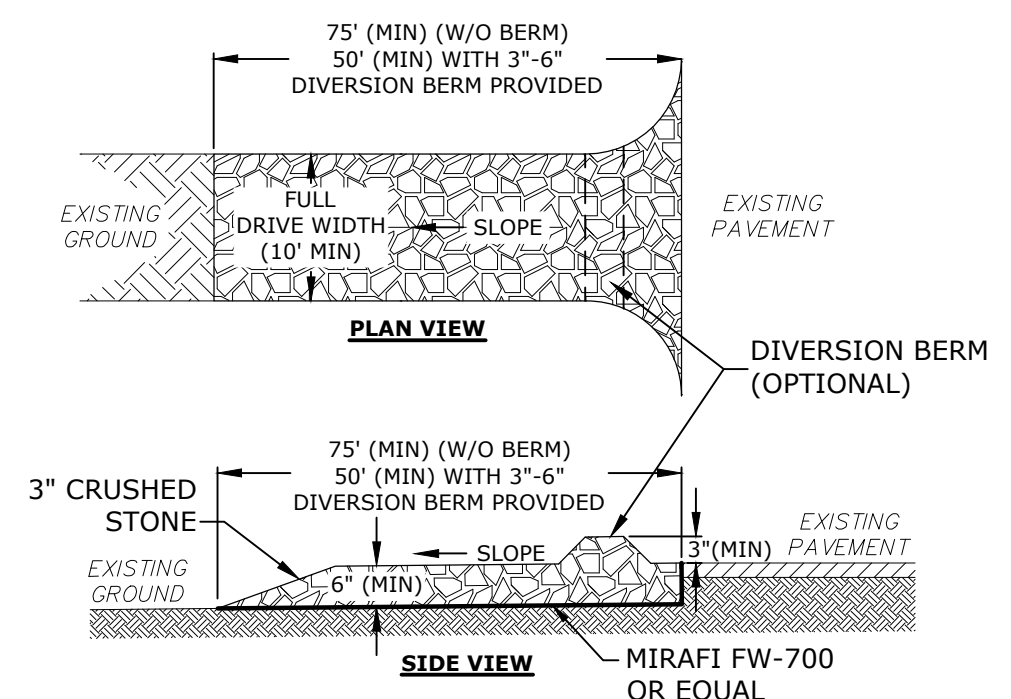
**LONGMEADOW ROAD TYPICAL CROSS SECTION
STA 5+00 TO STA 10+33**
NO SCALE



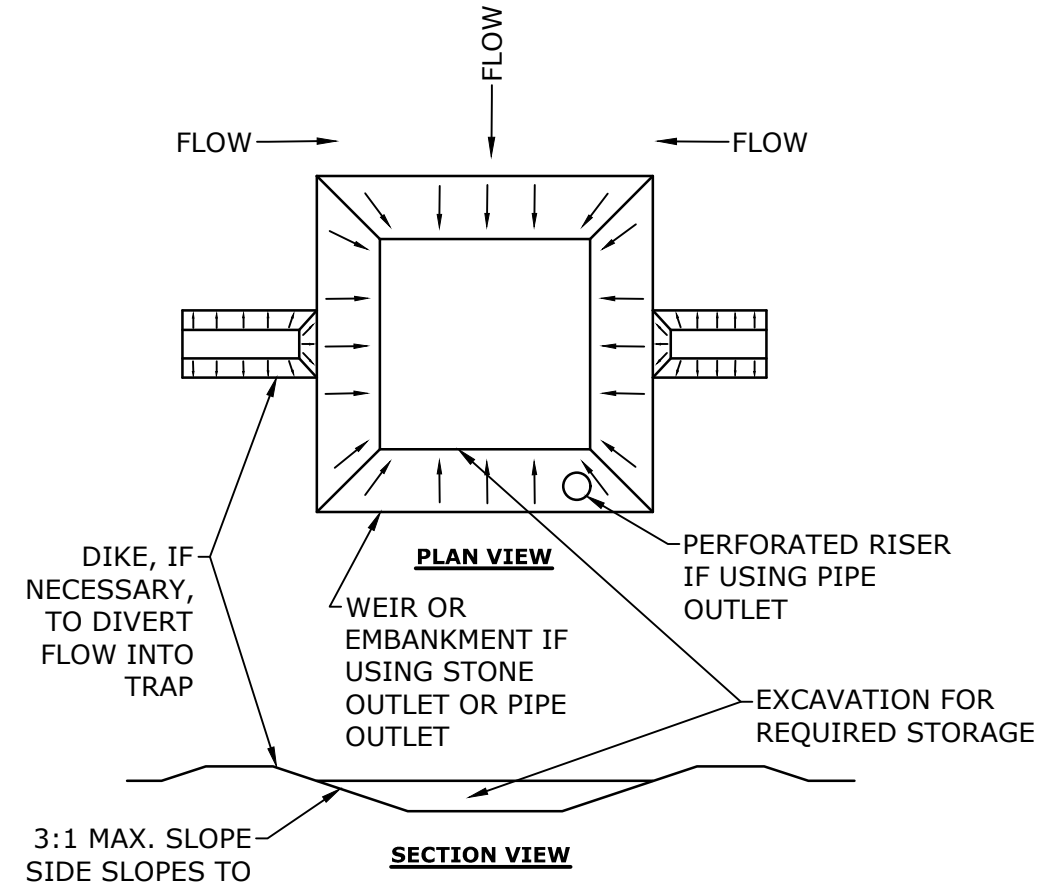
**LONGMEADOW AND LANG ROAD TYPICAL CROSS SECTION
STA 20+00 TO STA 29+25**
NO SCALE



**LANG ROAD TYPICAL CROSS SECTION
STA 30+00 TO STA 32+50**
NO SCALE

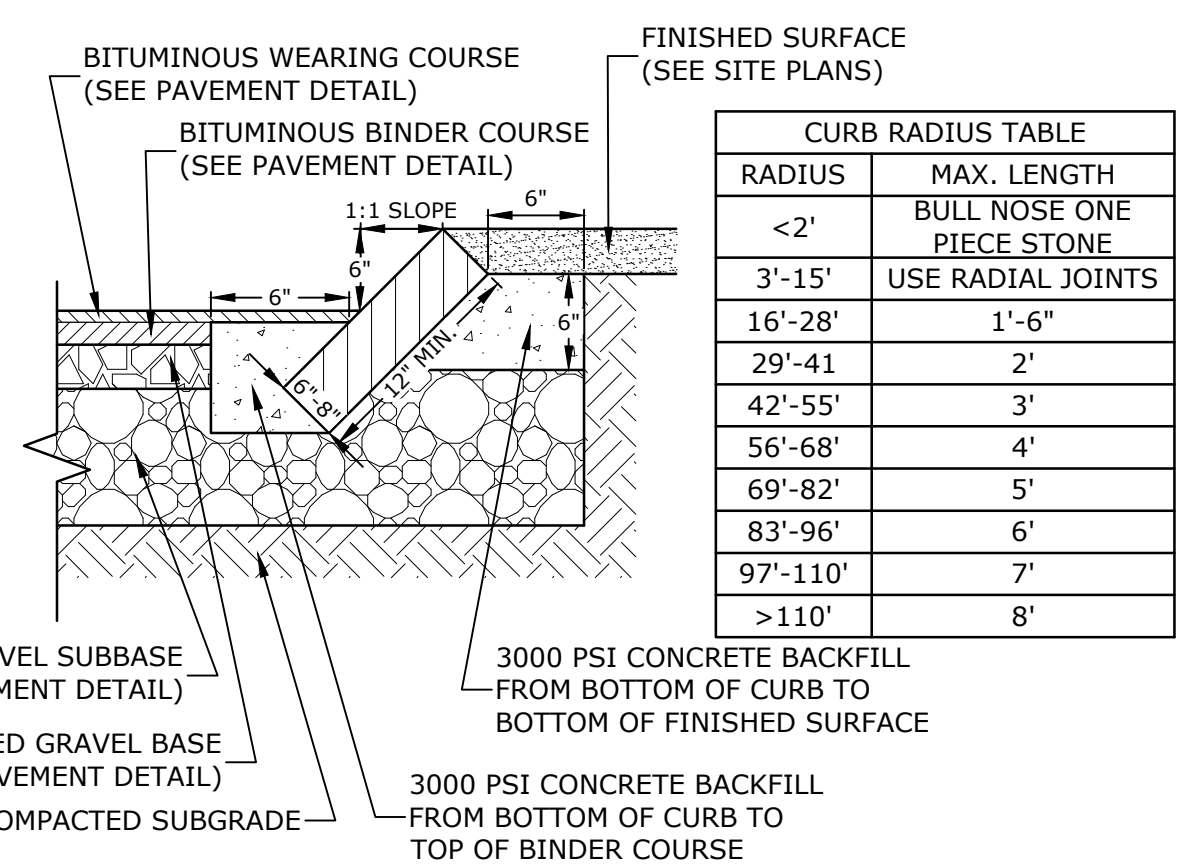


STABILIZED CONSTRUCTION EXIT
NO SCALE

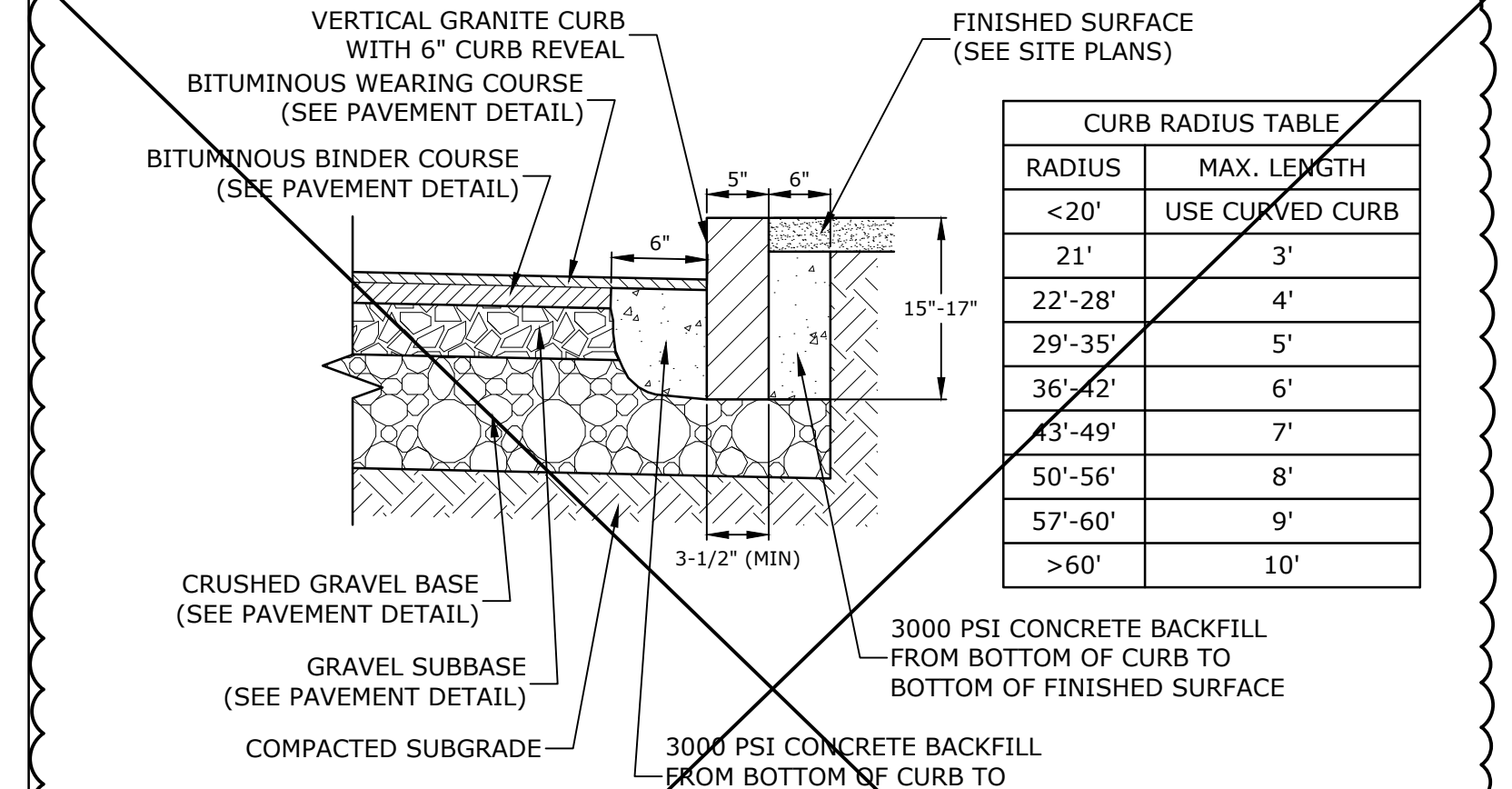


SEDIMENT TRAP
NO SCALE

- NOTES:
1. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA AS POSSIBLE.
 2. THE MAXIMUM CONTRIBUTING AREA TO A SINGLE TRAP SHALL BE LESS THAN 5 ACRES.
 3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
 4. TRAP OUTLET SHALL BE MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP.
 5. TRAP SHALL DISCHARGE TO A STABILIZED AREA.
 6. TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
 7. MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
 8. SEDIMENT TRAPS MUST BE USED AS NEEDED TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.



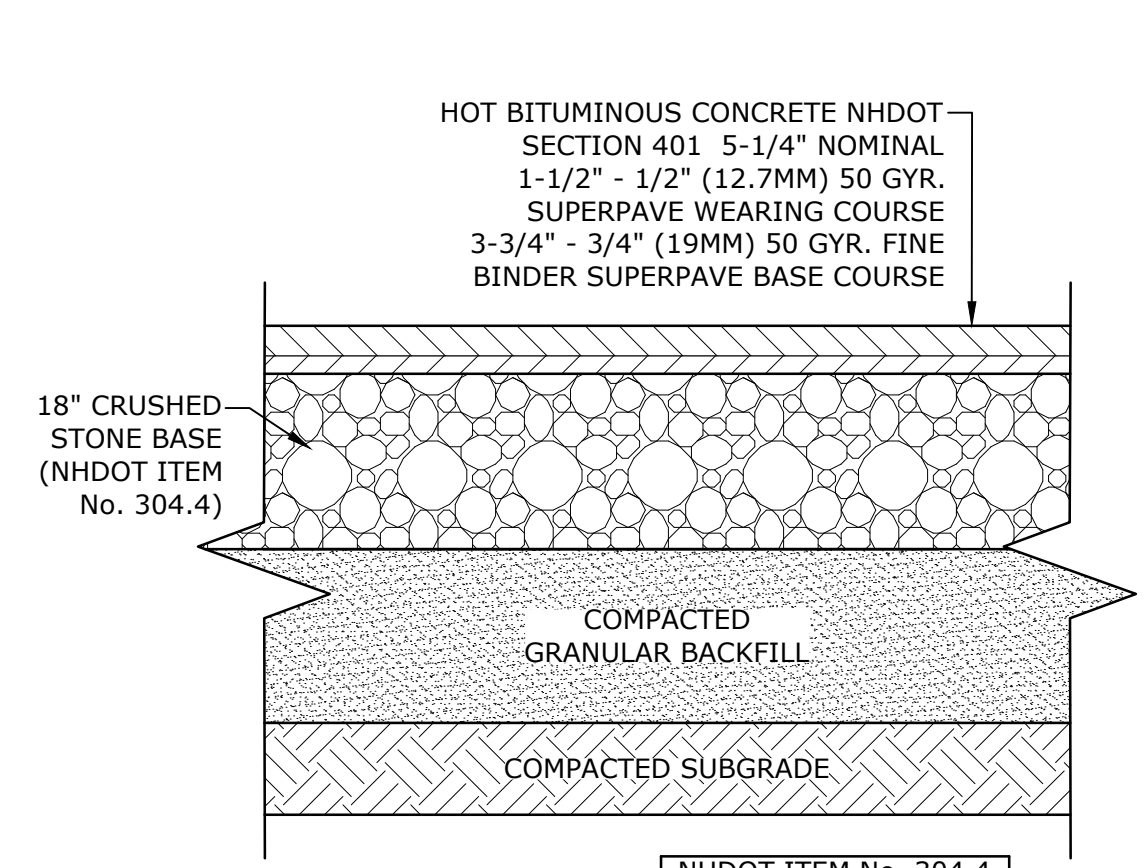
SLOPED GRANITE CURB
NO SCALE



VERTICAL GRANITE CURB
NO SCALE

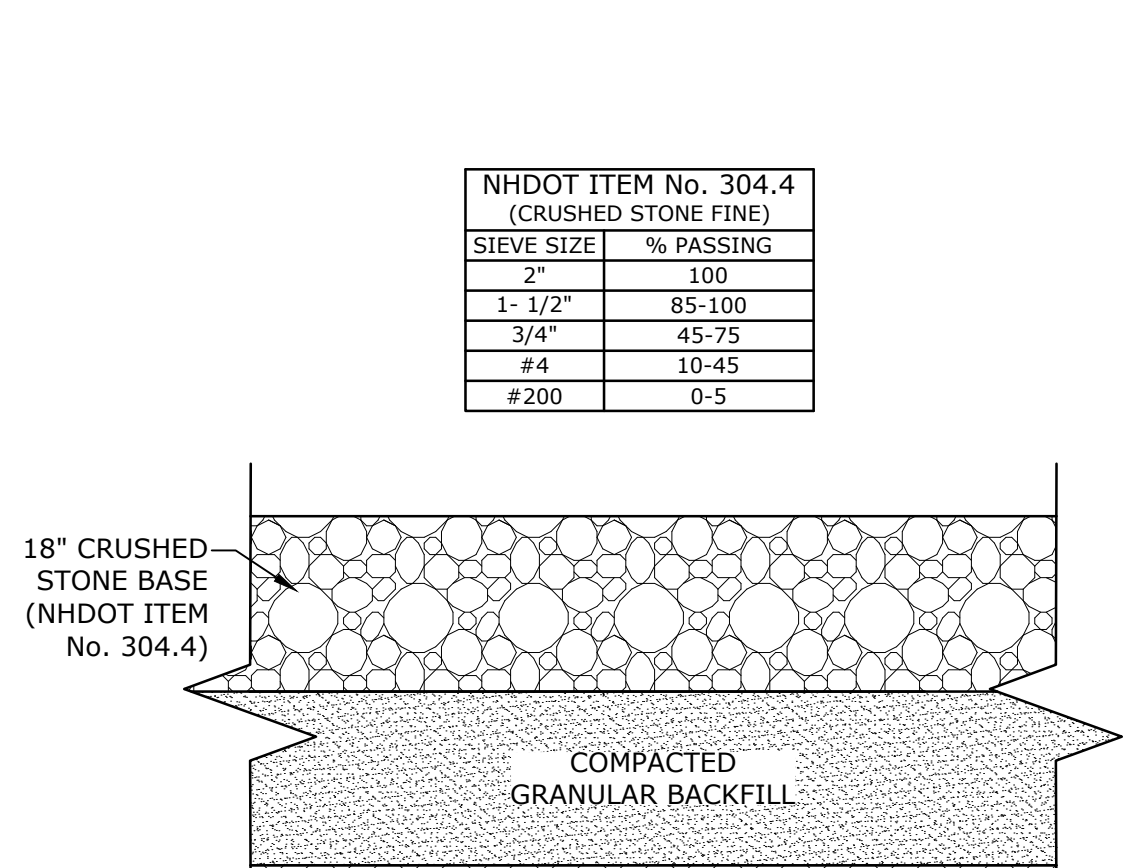
- NOTES:
1. SEE SITE PLAN(S) FOR LIMITS OF SLOPED GRANITE CURB (SGC).
 2. ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
 3. MINIMUM LENGTH OF STRAIGHT CURB STONES = 18"
 4. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8'
 5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE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

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



PAVEMENT SECTION
NO SCALE

- NOTES:
1. SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
 2. SEE THE TYPICAL CROSS SECTION DETAILS AND PROFILES FOR PAVEMENT SLOPE AND CROSS-SLOPE.
 3. A TACK COAT SHALL BE PLACED ON TOP OF BINDER COURSE PAVEMENT PRIOR TO PLACING WEARING COURSE.



GRAVEL SECTION
NO SCALE

- NOTES:
1. SEE SITE PLAN FOR GRAVEL WIDTH AND LOCATION.
 2. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.

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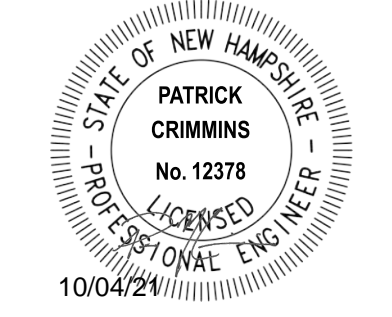
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 Tighe & Bond 231 York St Portsmouth 03801 - Lang - Longmeadow Road Extension Drawings - Figures Autocad Vref P-0714-005-C-DTLS.dwg

ITEM #	INDENT #	SIGN SIZE		TEXT	TEXT DIMENSIONS			SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.)		POSTS PER SIGN				REMARKS
		WIDTH (inch)	HEIGHT (inch)		LETTER HEIGHT (inch)	NOM AREA	TOTAL AREA					BREAKAWAY	STEEL 9-BEAM	4" OD ALUMINUM	U-CHANNEL GALV			
																UC	LC	
615.0301	M6-3	24	24								2	4	8					WHITE ON BLUE
615.0301	M4-5	21	15								2	2.2	4.4					WHITE ON BLUE
615.0601	M1-1	24	24								2	4	8					WHITE ON RED AND BLUE, 2 POSTS WITH 3 WIDE CONFIGURATION
615.0601	M6-1R	21	15								3	2.2	6.6					BLACK ON WHITE
615.0301	M1-4	24	24					24		12D	5	4	20		2/1			BLACK ON WHITE, 2 POSTS WITH 3 WIDE CONFIGURATION 1 POST WITH SINGLE CONFIGURATION
615.0601	M3-1	24	12				7C/6C				3	2	6					BLACK ON WHITE
615.0601	M6-1L	21	15								1	2.2	2.2					BLACK ON WHITE
615.0601	M3-3	24	12				7C/6C				2	2	4					BLACK ON WHITE
615.0601	M6-3	21	15								1	2.2	2.2					BLACK ON WHITE
615.0601	M4-5	24	12				7C/6C				2	2	4					BLACK ON WHITE
615.0301	W1-1	36	36								1	9	9		1			BLACK ON YELLOW, MOUNT ABOVE W13-1P
615.0601	W13-1P	18	18								1	2.25	2.25					BLACK ON YELLOW, MOUNT BELOW W1-1
615.0301	W1-6R	24	48								1	8	8		1			BLACK ON FLUORESCENT YELLOW
615.0301	W1-6L	24	48								1	8	8		1			BLACK ON FLUORESCENT YELLOW
615.0301	R1-1	36	36				12D				3	9	27		1			WHITE ON RED
615.0301	R3-2	24	24								1	4	4					RED AND BLACK ON WHITE, MOUNT BELOW R4-7

ITEM #	INDENT #	SIGN SIZE		TEXT	TEXT DIMENSIONS			SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.)		POSTS PER SIGN				REMARKS
		WIDTH (inch)	HEIGHT (inch)		LETTER HEIGHT (inch)	NOM AREA	TOTAL AREA					BREAKAWAY	STEEL 9-BEAM	4" OD ALUMINUM	U-CHANNEL GALV			
																UC	LC	
615.0301	W1-10R	36	36								1	9	9					BLACK ON FLUORESCENT YELLOW
615.0301	W1-10L	36	36								1	9	9					BLACK ON FLUORESCENT YELLOW
615.0301	W1-2R	36	36								1	9	9					BLACK ON FLUORESCENT YELLOW
615.0301	R3-5R	30	36								1	7.50	7.50					BLACK ON WHITE
615.0301	R4-7	24	30								2	5	10					BLACK ON WHITE, MOUNT ABOVE R3-2
615.0301	R2-1	24	30								3	5	15					BLACK ON WHITE
615.0301	W2-1	30	30								2	6.25	12.50					BLACK AND RED ON YELLOW
615.0301	W1-8	18	24								12	3	36					BLACK ON FLUORESCENT YELLOW
615.0201	D3-2	96	48		6D	6D					1	32	32	X	2P			WHITE ON GREEN, PLANK

- GENERAL NOTES**
- REFER TO THE 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PUBLISHED BY THE NHDOT.
 - NOTE NEW REFLECTIVITY REQUIREMENTS IN THE 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 718 PUBLISHED BY THE NHDOT.
 - REFER TO THE 2010 STANDARD PLANS FOR ROAD CONSTRUCTION AS PUBLISHED BY THE NHDOT FOR EXACT DETAILS OF PERMANENT SIGNING STANDARDS AND NHDOT SPECIFIC SIGNS.
 - REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AS PUBLISHED BY THE USDOT-FHWA FOR EXACT DETAILS OF BORDERS, ETC.
 - THE ALUMINUM OR U-CHANNEL POST SHALL BE FLUSH WITH THE TOP OF THE SIGN ON ALL SINGLE POST ASSEMBLIES.
 - REFER TO 'ROUTE MARKER POST ASSEMBLY DETAIL' LOCATED IN THE PROPOSAL FOR SIDE BY SIDE ROUTE MARKER SIGN INSTALLATIONS.
 - DIGITALLY PRINTED SIGNS SHALL NOT BE PERMITTED.

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DESIGN			
SIGN TEXT LAYOUT			
EXCEL FILE NAME	STATE PROJECT NO.	FEDERAL PROJECT NO.	SHEET NO.
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Longmeadow Road Extension

City of Portsmouth

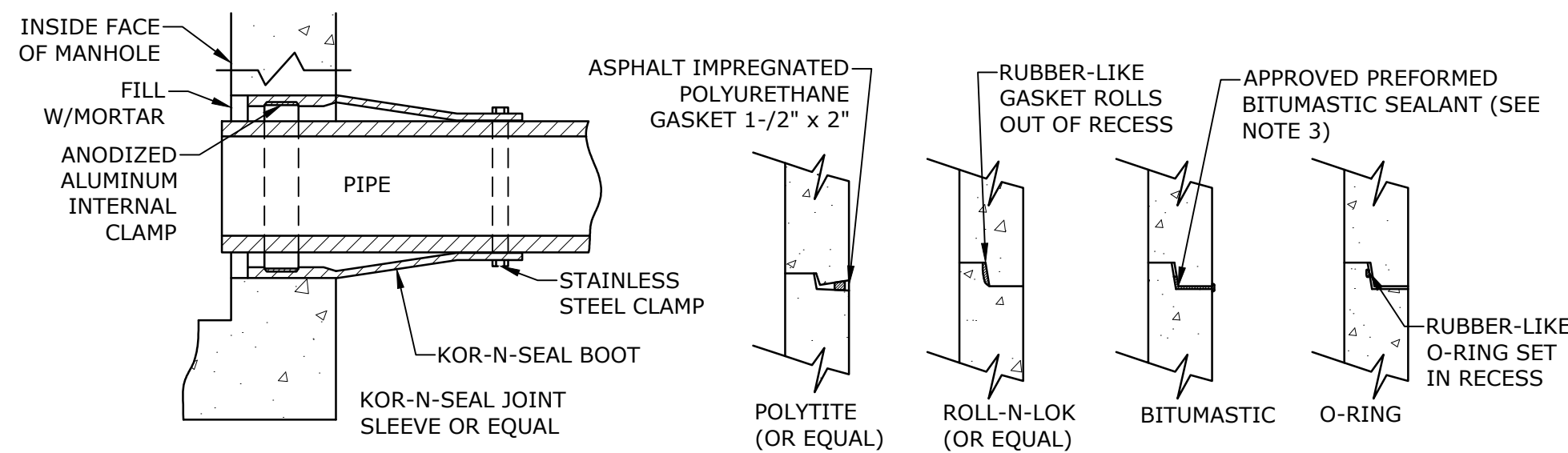
Portsmouth, New Hampshire

Portsmouth #42350
 X-A004(818)

MARK	DATE	DESCRIPTION
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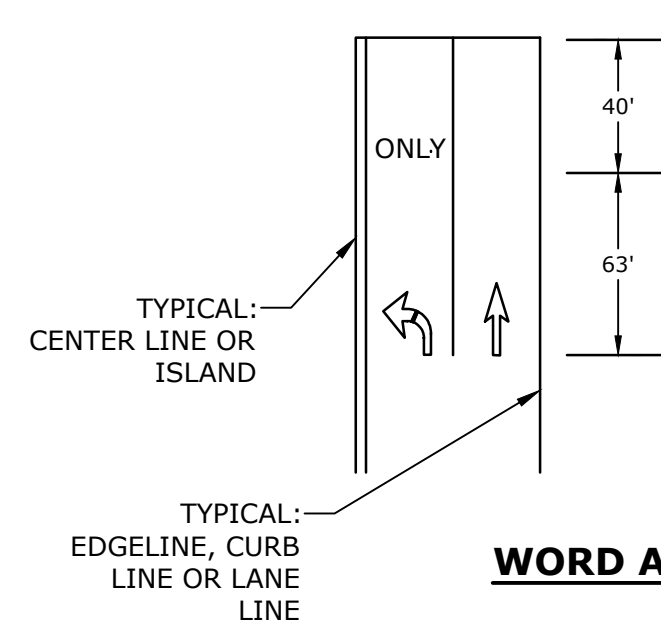
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 DATE: October 21, 2019
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 CHECKED: PMC
 APPROVED: BLM

DETAILS SHEET
 SCALE: AS SHOWN
C-503



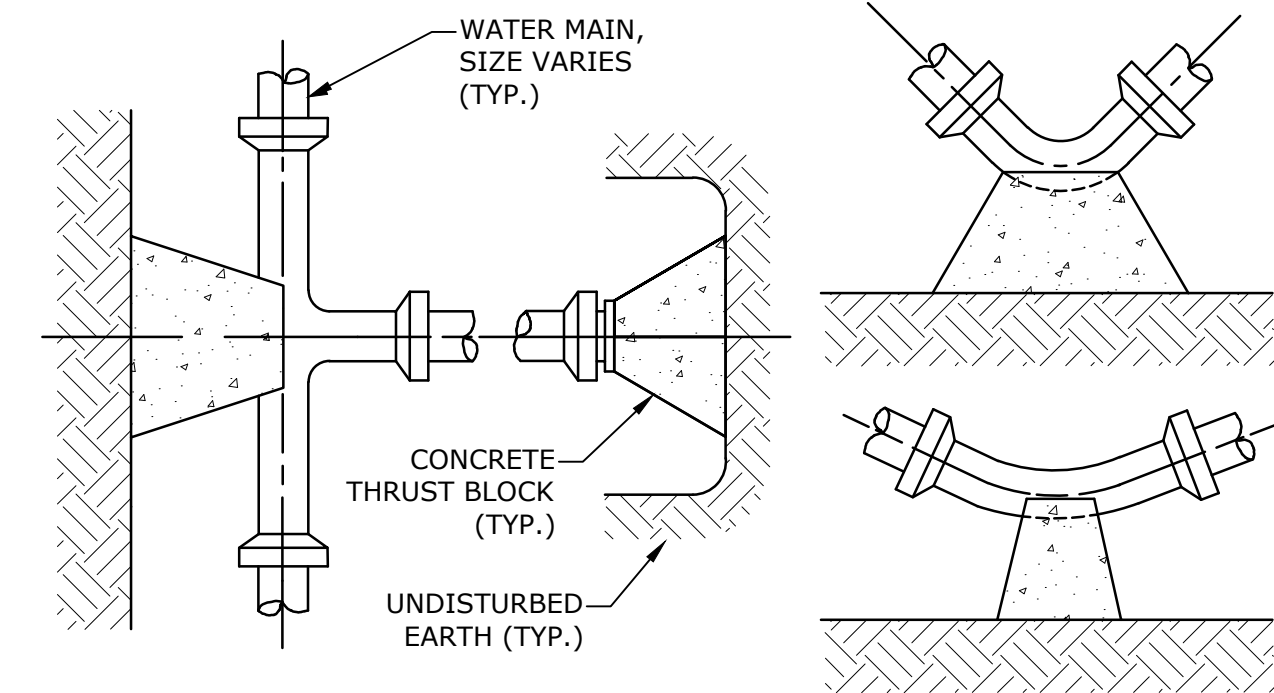
- PIPE TO MANHOLE JOINTS**
- NOTES:**
- HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE PER CITY OF PORTSMOUTH DPW STANDARD AND SHALL BE SEALED FOR WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET.
 - PIPE TO MANHOLE JOINTS SHALL BE PER CITY OF PORTSMOUTH STANDARD.
 - 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.

MANHOLE JOINTS
NO SCALE



WORD AND SYMBOL LANE LAYOUT
NO SCALE

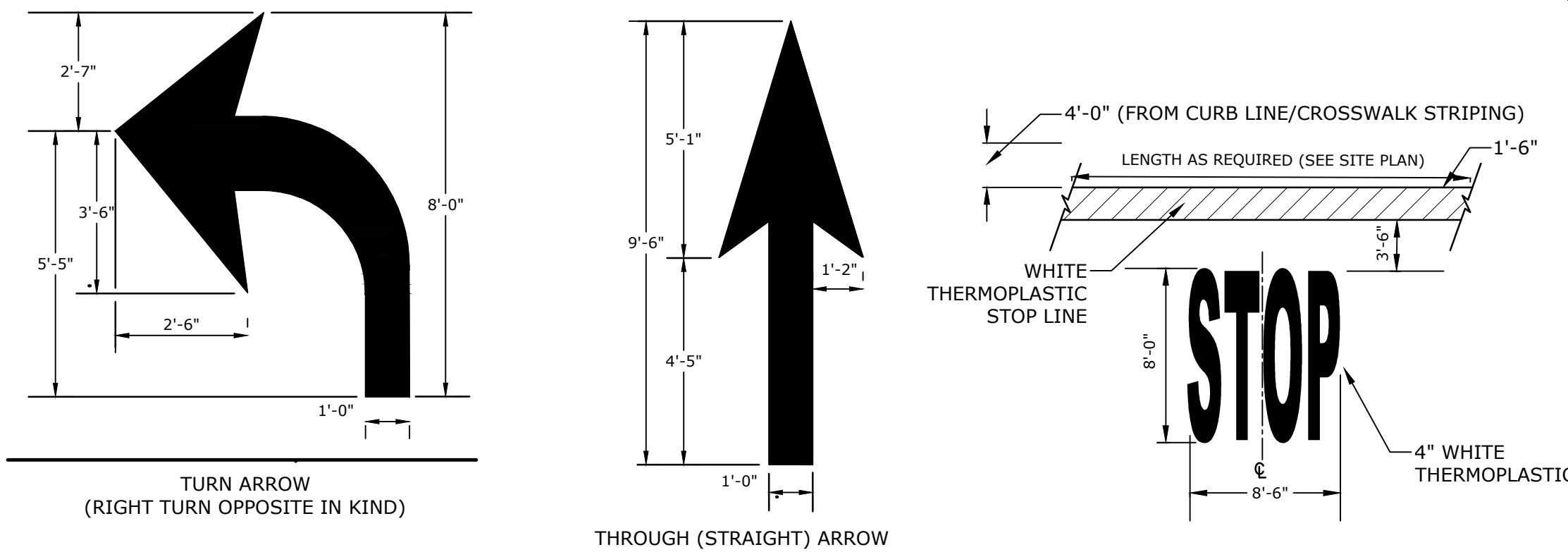
- NOTES:**
- WORDS AND SYMBOLS SHALL BE CENTERED LATERALLY WITHIN THE LANE. THE LONGITUDINAL DIMENSION SHALL BE PARALLEL TO THE LANE.
 - LONGITUDINAL SPACING BETWEEN SUCCESSIVE WORDS AND/OR SYMBOLS IN TURN LANES SHOULD BE AT LEAST 4 TIMES AND NO GREATER THAN 10 TIMES THE HEIGHT OF THE LARGEST CHARACTER.
 - THE STOP LINE MAY NOT BE PRESENT.
 - SEE WORDS AND SYMBOLS, PM-10A, FOR WORDS AND SYMBOL DETAILS.
 - STRAIGHT THRU ARROWS ARE OPTIONAL. SEE THE PAVEMENT MARKINGS PLANS FOR THE APPROPRIATE LAYOUT.



REACTION TYPE	PIPE SIZE				
	4"	6"	8"	10"	12"
A 90°	0.89	2.19	3.82	11.14	17.24
B 180°	0.65	1.55	2.78	8.38	12.00
C 45°	0.48	1.19	2.12	6.02	9.32
D 22-1/2°	0.25	0.60	1.06	3.08	4.74
E 11-1/4°	0.13	0.30	0.54	1.54	2.38

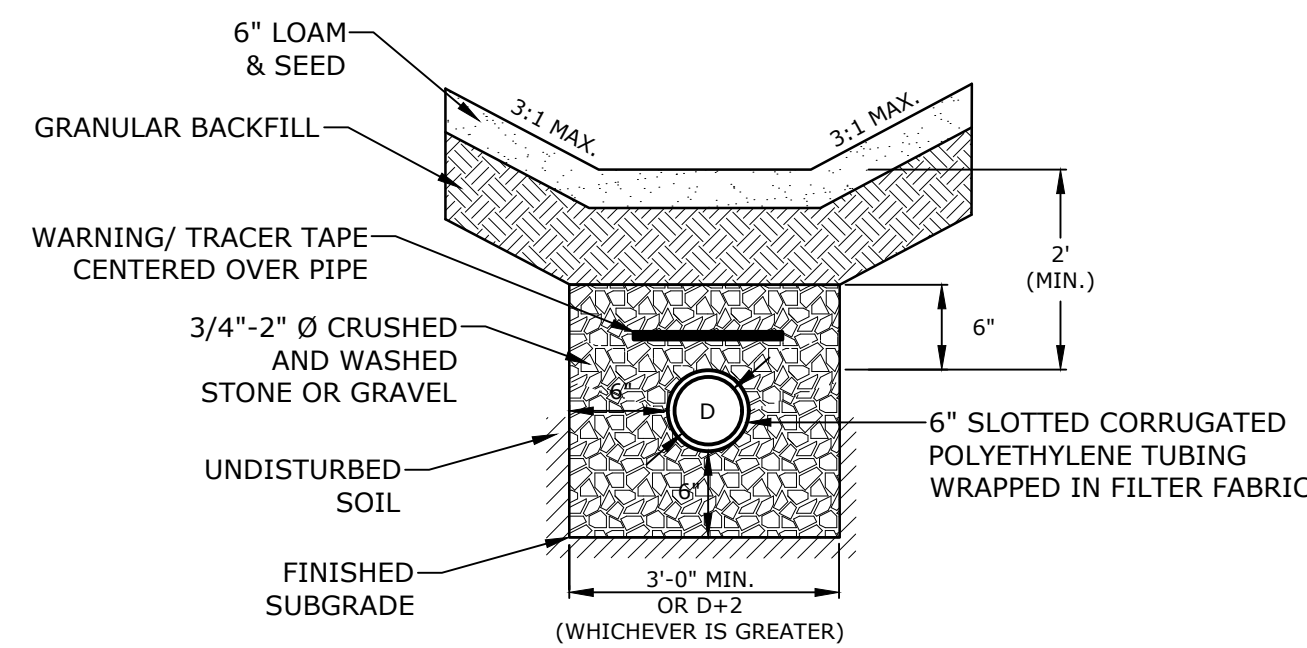
- NOTES:**
- POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL, WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
 - ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
 - PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCKS.
 - WHERE M.J. PIPE IS USED, M.J. PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED FOR END BLOCKINGS.
 - INSTALLATION AND STANDARD DIMENSIONAL REQUIREMENTS SHALL BE WITH CITY OF PORTSMOUTH WATER DEPARTMENT STANDARDS.

THRUST BLOCKING DETAIL
NO SCALE

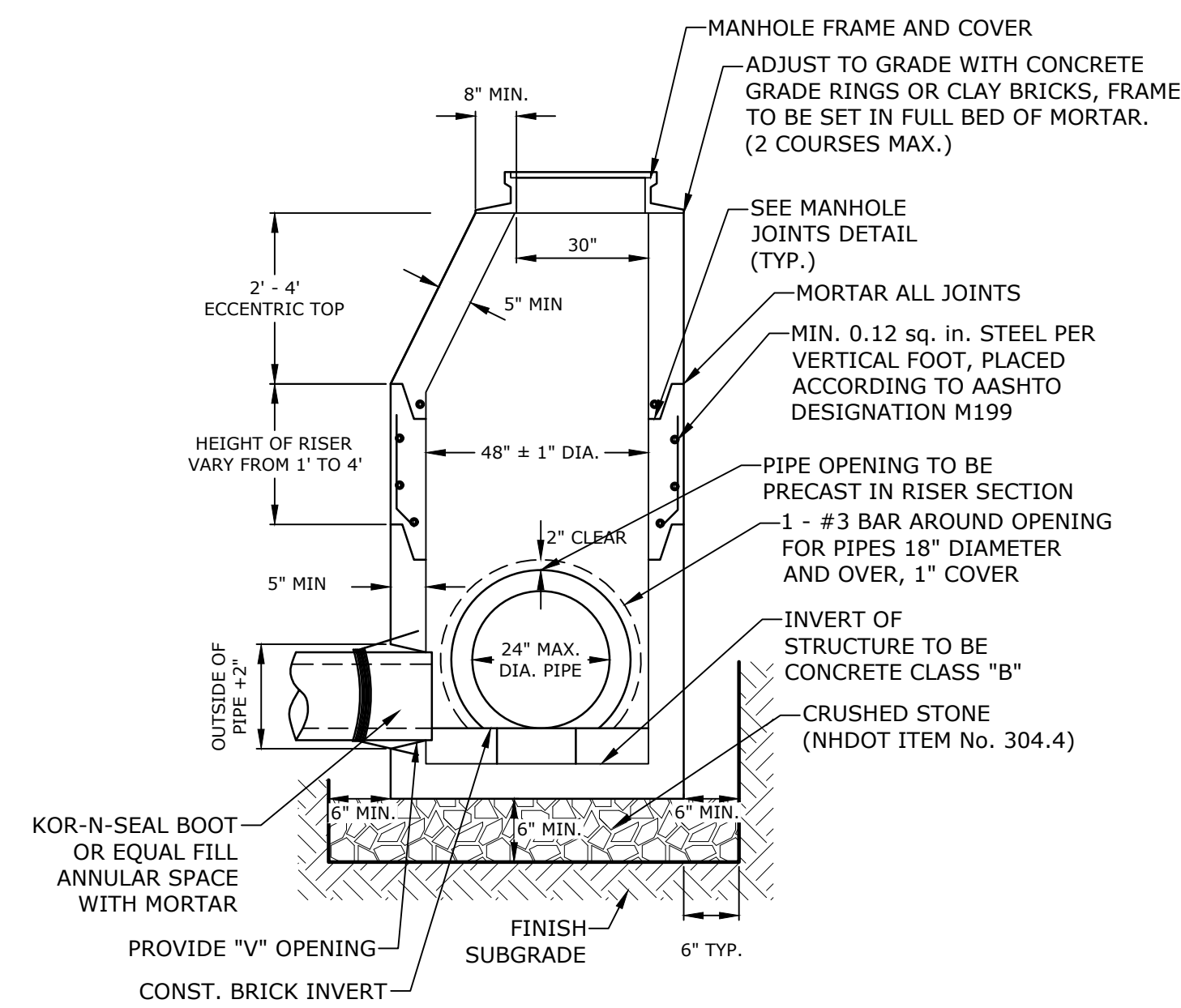


- PAVEMENT MARKING NOTES:**
- PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON SITE PLAN.
 - ALL WORDS AND SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST VERSION OF THE MUTCD.
 - MULTI-WORD MESSAGES SHALL READ "UP"; THAT IS, THE FIRST WORD SHALL BE NEAREST THE APPROACHING DRIVER.
 - 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".
 - 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.
 - PERFORMED WORDS AND SYMBOLS SHALL BE PRE-CUT BY THE MANUFACTURER.
 - WRONG-WAY ARROWS SHALL NOT BE SUBSTITUTED FOR THROUGH ARROWS.
 - ALL STOP BARS, WORDS, SYMBOLS AND ARROW SHALL BE THERMOPLASTIC.

PAVEMENT MARKINGS
NO SCALE



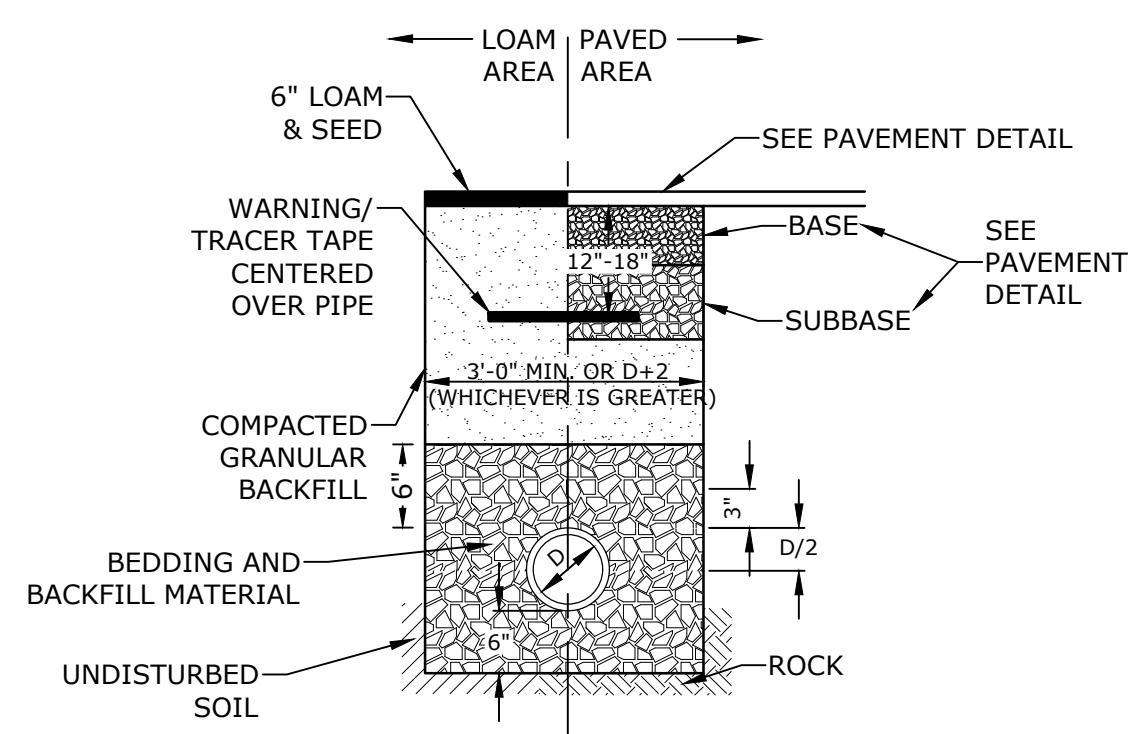
UNDERDRAIN TRENCH IN SWALE
NO SCALE



- NOTES:**
- ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.
 - CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
 - THE TONGUE AND 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 H20 LOADING.
 - CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM THICKNESS)
 - THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
 - PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
 - OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
 - PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
 - ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.
 - MANHOLE FRAME AND COVER SHALL BE 32" HINGED ERGO XL BY EJ CO. PER CITY OF PORTSMOUTH STANDARD

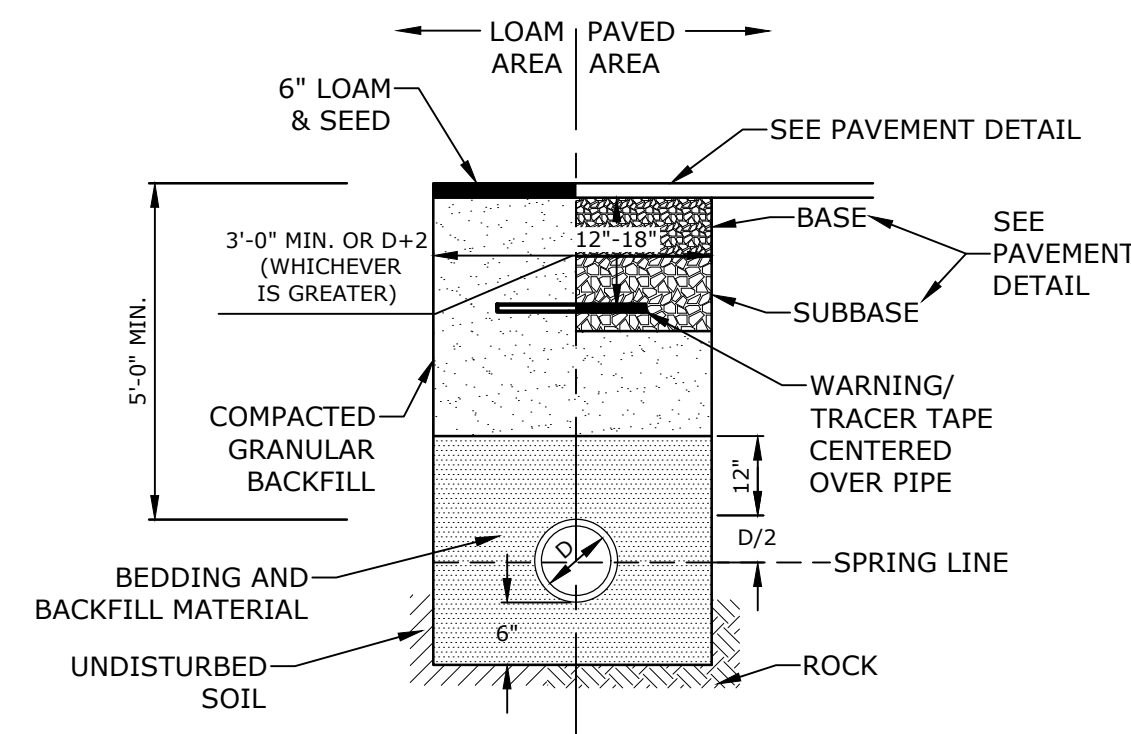
DIAMETER	WALL THICKNESS (MIN.)	FLOOR THICKNESS (MIN.)
4"	5"	6"
5"	6"	8"
6"	7"	8"
8"	9"	10"

4' DIAMETER DRAIN MANHOLE
NO SCALE



- NOTES:**
- CRUSHED STONE BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE UP TO 6" ABOVE TOP OF PIPE.
 - ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE CITY OF PORTSMOUTH.

STORM DRAIN TRENCH
NO SCALE



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

WATER TRENCH
NO SCALE

Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

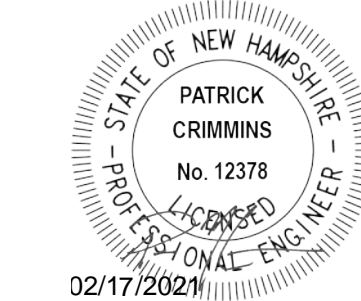
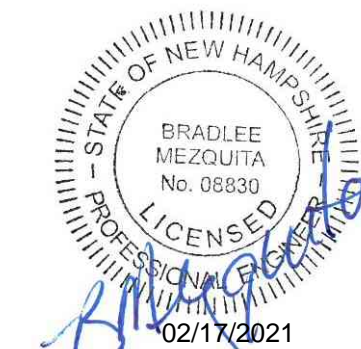
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J	10/4/2021	Add. 1 - Traffic Comments
I	8/11/2021	Bureau of Traffic Comments
H	7/14/2021	NHDOT Comments
G	4/21/2021	AoT RFMI
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C	2/11/2019	P.B. Submission

PROJECT NO:	P-0714-005
DATE:	October 21, 2019
FILE:	P-0714-005-C-DTLS.dwg
DRAWN BY:	NAH/CLK
CHECKED:	PMC
APPROVED:	BLM

DETAILS SHEET

SCALE: AS SHOWN

C-504



Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

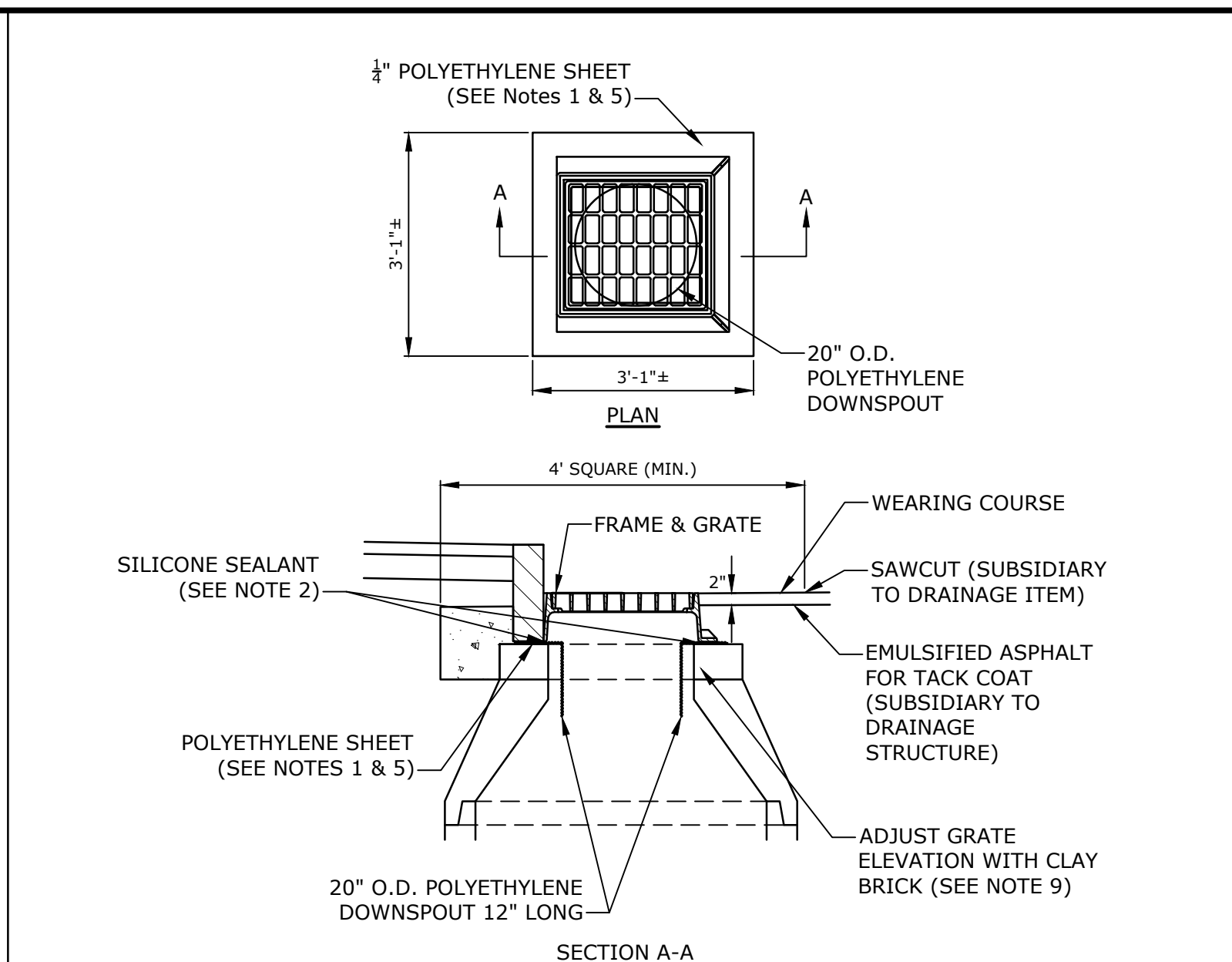
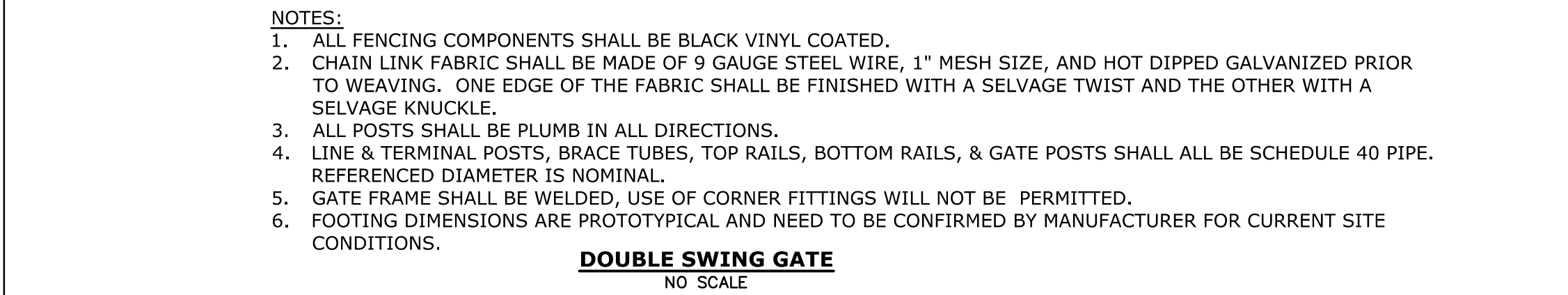
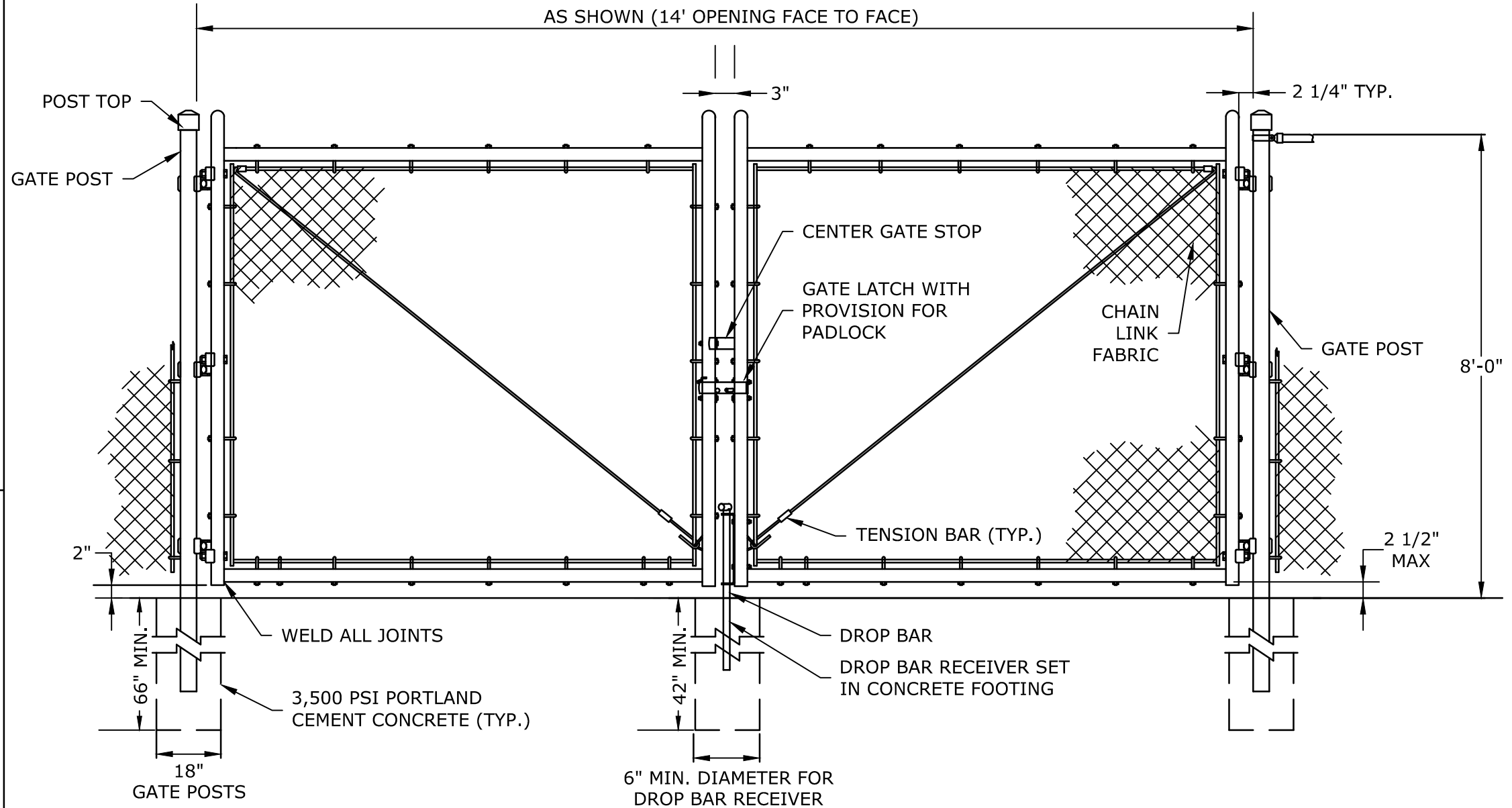
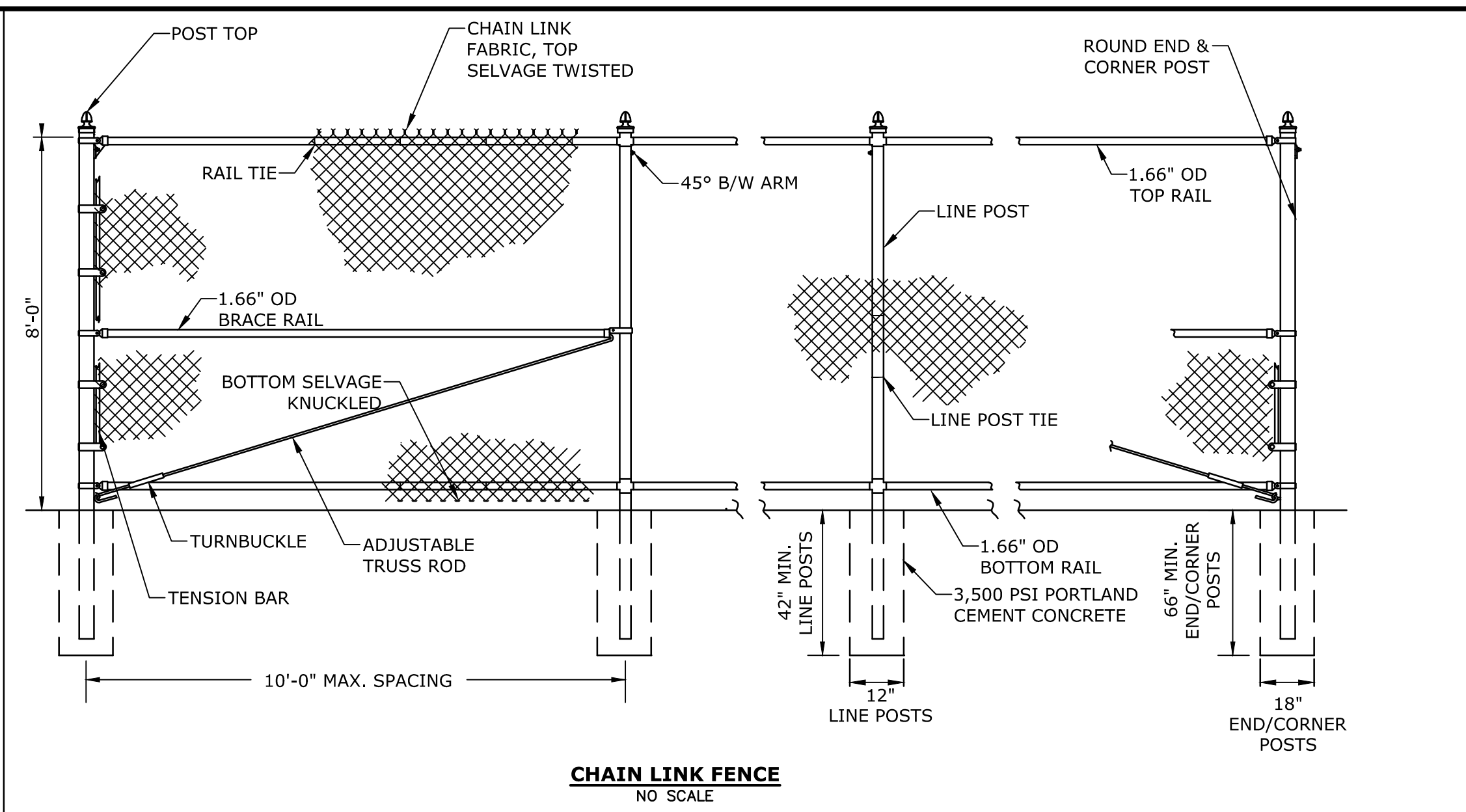
F	1/29/2021	Final Design Submission
E	10/21/2020	NHDOT Comments
D	3/4/2019	Revised AoT Submission
C	2/11/2019	P.B. Submission
B	1/7/2019	P.D. Submission
A	1/7/2019	AoT Submission
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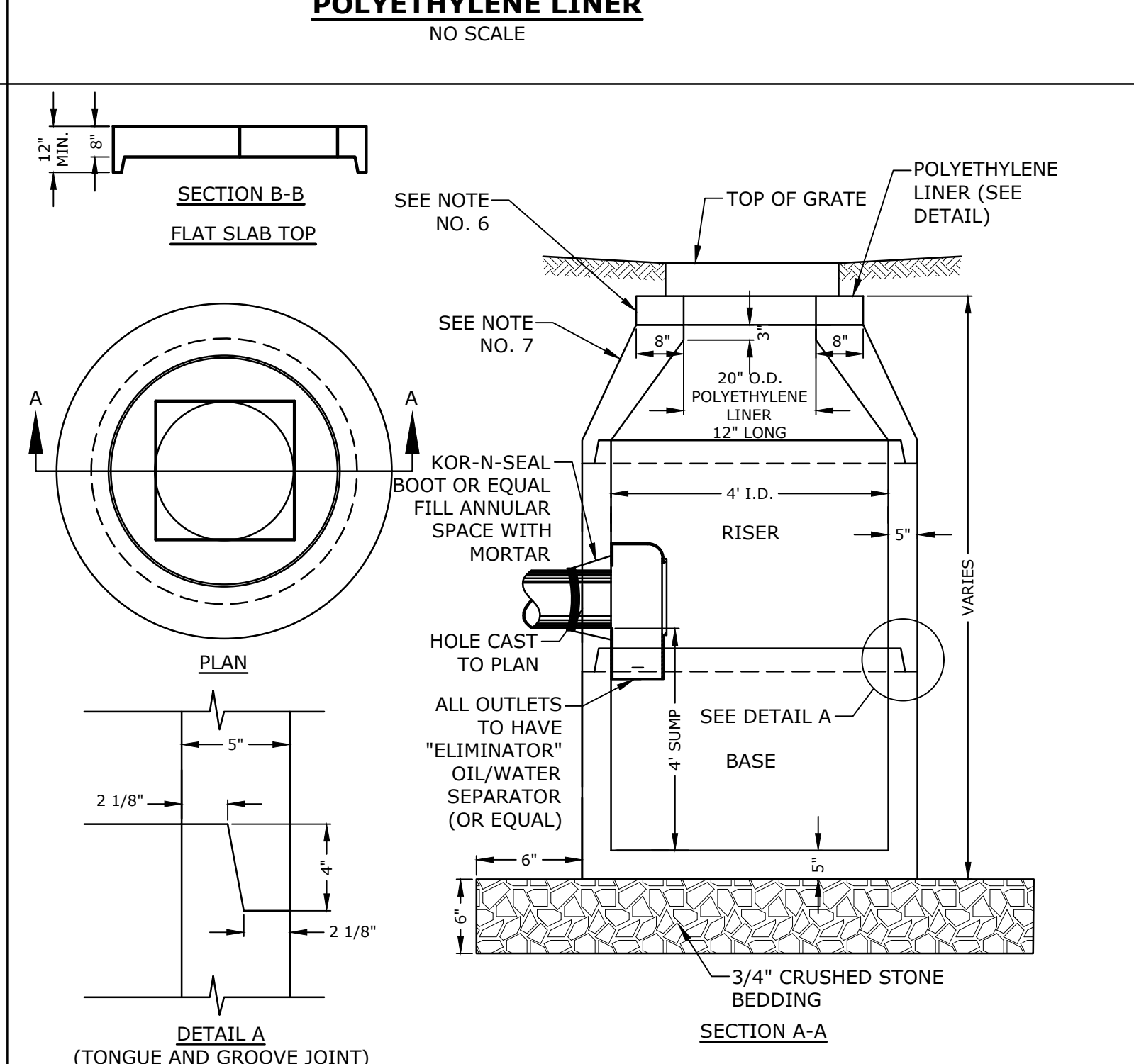
DETAILS SHEET

SCALE: AS SHOWN

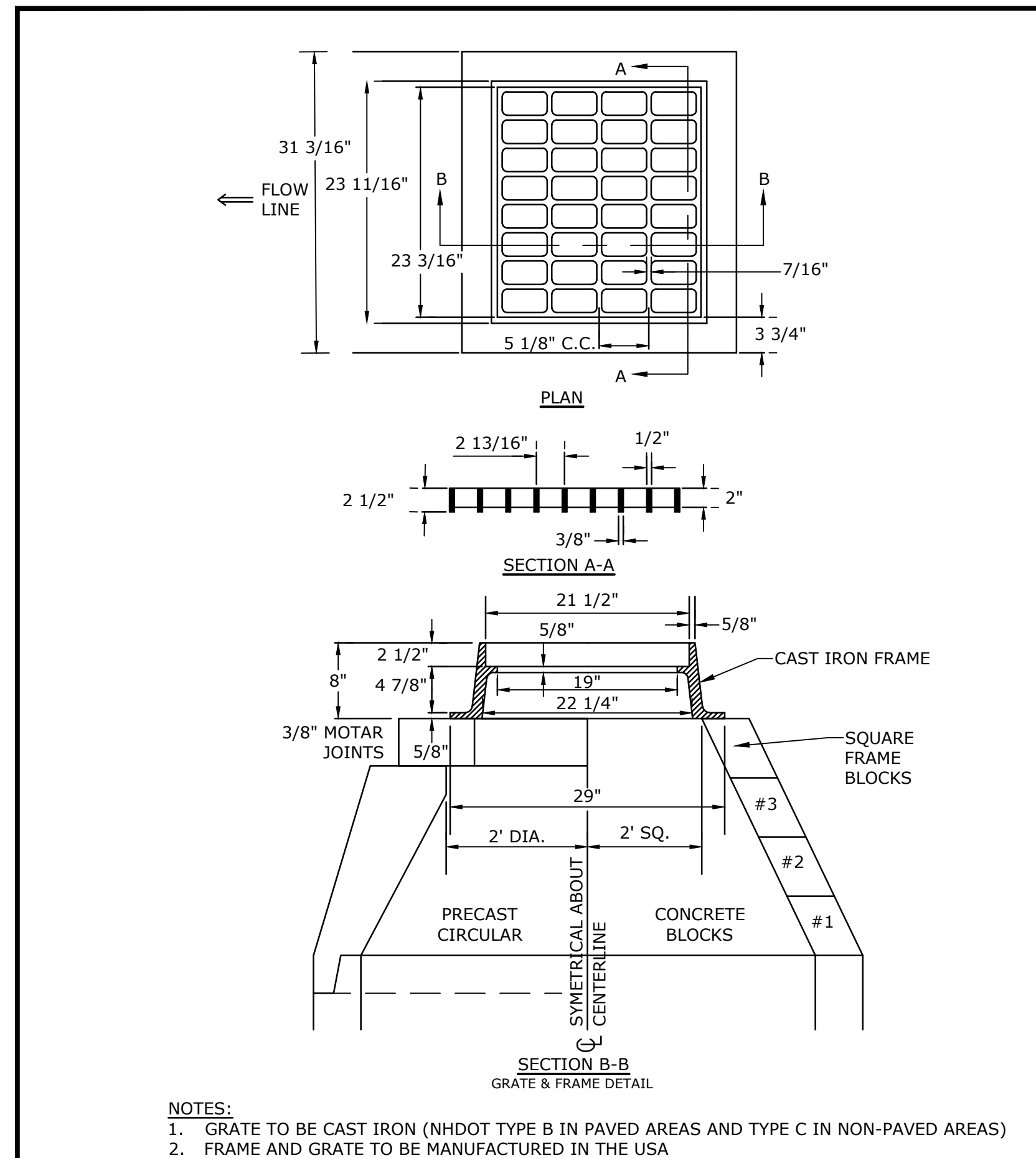
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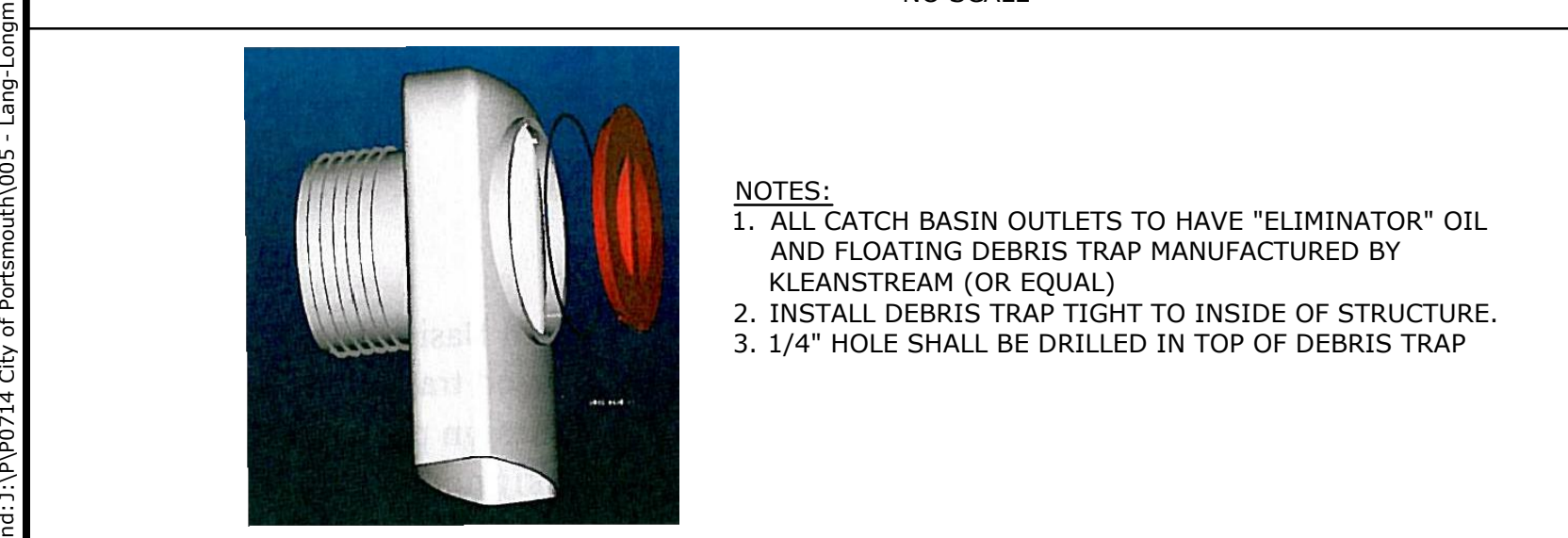
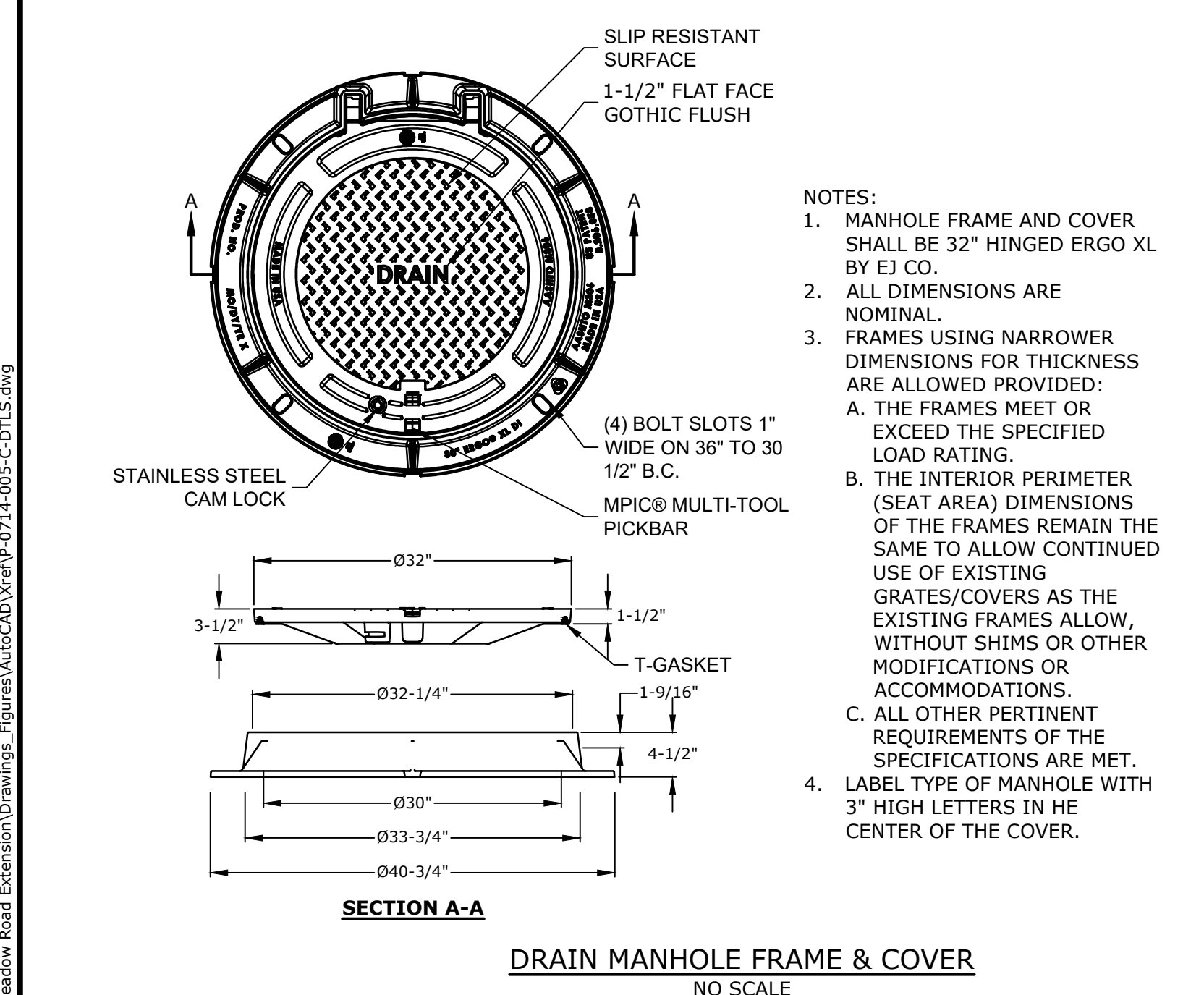
- NOTES:**
1. POLYETHYLENE LINER (ITEM 604.0007) SHALL BE FABRICATED AT THE SHOP. DOWNSPOUT SHALL BE EXTRUSION FILLET WELDED TO THE POLYETHYLENE SHEET.
 2. PLACE A CONTINUOUS BEAD OF AN APPROVED SILICONE SEALANT (SUBSIDIARY TO ITEM 604.0007) BETWEEN FRAME AND POLYETHYLENE SHEET.
 3. PLACE CLASS AA CONCRETE TO 2" BELOW THE TOP OF THE GRATE ELEVATION (SUBSIDIARY TO DRAINAGE STRUCTURE).
 4. USE ON DRAINAGE STRUCTURES 4" MIN. DIAMETER ONLY.
 5. TRIM POLYETHYLENE SHEET A MAXIMUM OF 4" OUTSIDE THE FLANGE ON THE FRAME FOR THE CATCH BASIN BEFORE PLACING CONCRETE (EXCEPT AS SHOWN WHEN USED WITH 3-FLANGE FRAME AND CURB).
 6. THE CENTER OF THE GRATE & FRAME MAY BE SHIFTED A MAXIMUM OF 6" FROM THE CENTER OF THE DOWNSPOUT IN ANY DIRECTION.
 7. PLACED ONLY IN DRAINAGE STRUCTURES IN PAVEMENT.
 8. SEE NHDOT DR-04, "DI-DB, UNDERDRAIN FLUSHING BASIN AND POLYETHYLENE LINER DETAILS", FOR ADDITIONAL INFORMATION.
 9. FITTING FRAME TO GRADE MAY BE DONE WITH CLAY BRICKS (1 COURSE MIN., 12" MAX BELOW LINER).



- NOTES:**
1. ALL SECTIONS SHALL BE CONCRETE CLASS AA(4000 PSI).
 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
 3. THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
 4. RISERS OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH.
 5. THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
 6. FITTING FRAME TO GRADE MAY BE DONE WITH CLAY BRICKS (1 COURSE MIN., 12" BELOW LINER MAX.).
 7. CONE SECTIONS MAY BE EITHER CONCENTRIC OR ECCENTRIC, OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
 8. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
 9. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
 10. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
 11. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
 12. "ELIMINATOR" OIL/WATER SEPARATOR SHALL BE INSTALLED TIGHT TO INSIDE OF CATCHBASIN.

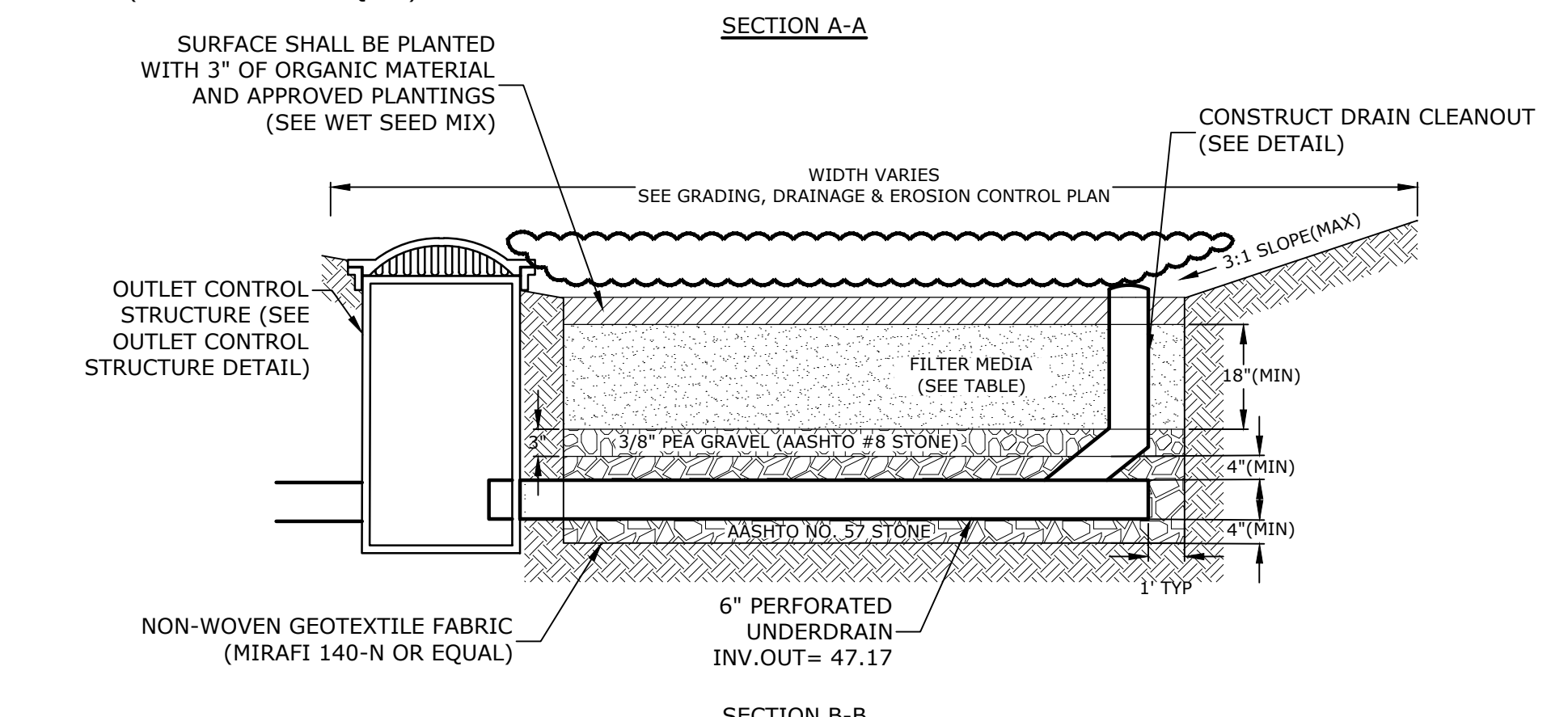
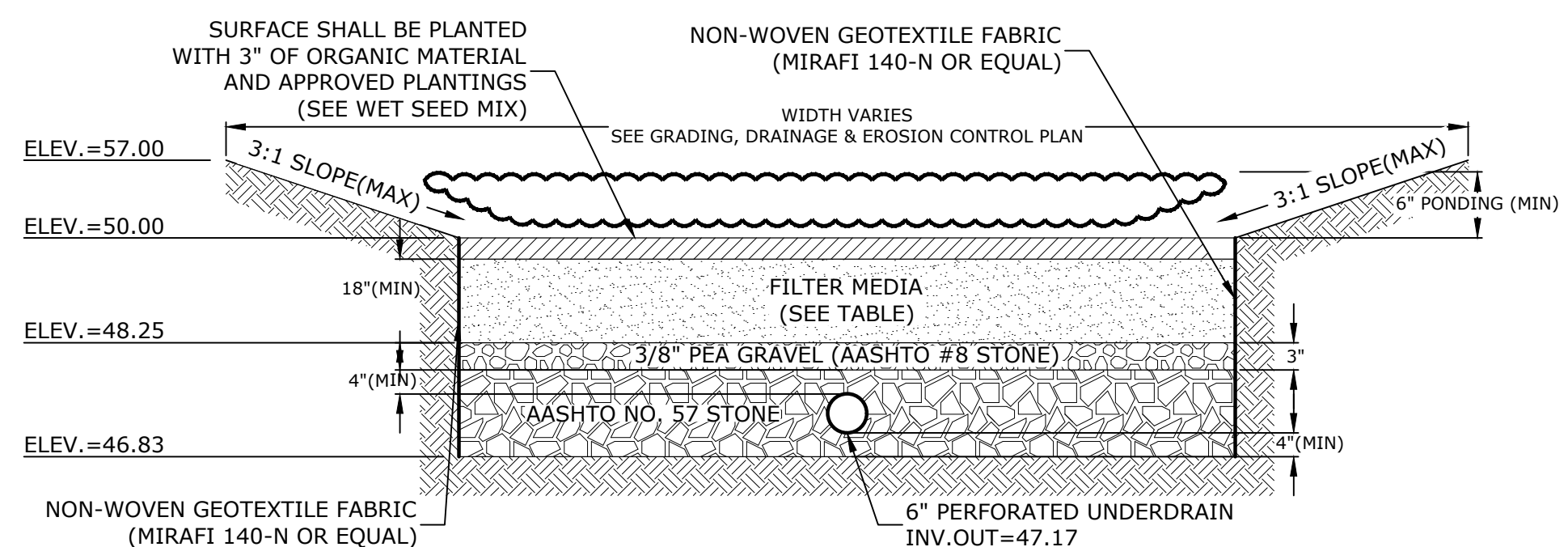


- NOTES:**
1. GRATE TO BE CAST IRON (NHDOT TYPE B IN PAVED AREAS AND TYPE C IN NON-PAVED AREAS)
 2. FRAME AND GRATE TO BE MANUFACTURED IN THE USA



- NOTES:**
1. ALL CATCH BASIN OUTLETS TO HAVE "ELIMINATOR" OIL AND FLOATING DEBRIS TRAP MANUFACTURED BY KLEANSTREAM (OR EQUAL)
 2. INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE.
 3. 1/4" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP

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Printed On: Jan 28, 2021, 11:51pm
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Figures AutoCAD/Inventor P-0714-005-C-DTLS.dwg



FILTER MEDIA COMPOSITION:

COMPONENT MATERIAL	PERCENT OF MIXTURE BY VOLUME	GRADATION OF MATERIAL SIEVE NO.	PERCENT PASSING
ASTM C-33 CONCRETE SAND	50-55	200	15-25
LOAMY SAND TOPSOIL	20-30	200	5 MAX
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH	20-30	200	5 MAX

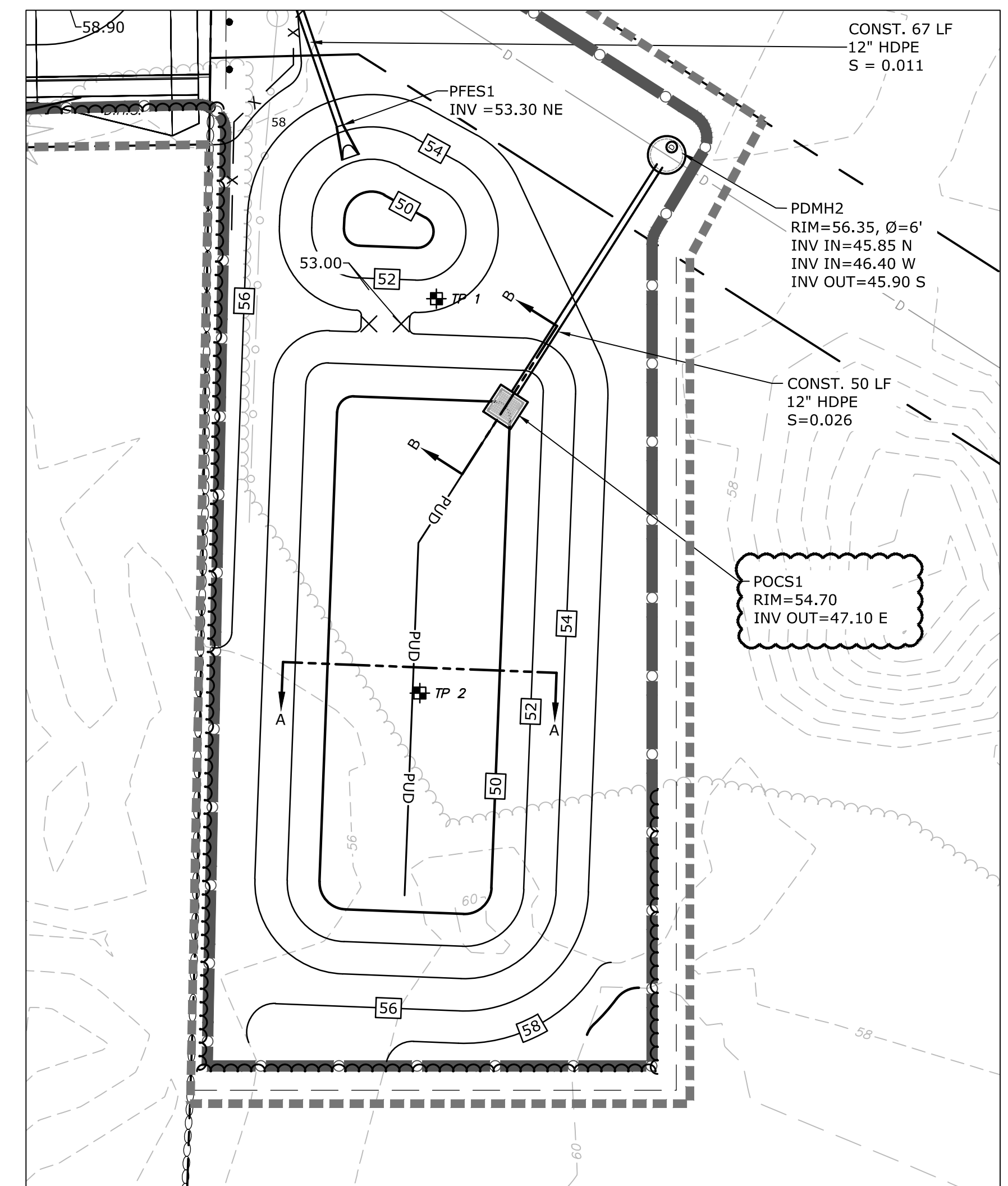
- NOTES:**
- RAIN GARDENS SHALL NOT BE PLACED INTO SERVICE UNTIL THE PRACTICE HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED. DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL KEEP ALL EXCAVATION EQUIPMENT OUTSIDE OF THE LIMIT OF THE RAIN GARDEN.
 - 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):

SIEVE SIZE	PERCENT PASSING
3/8"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#50	5-30
#100	0-10

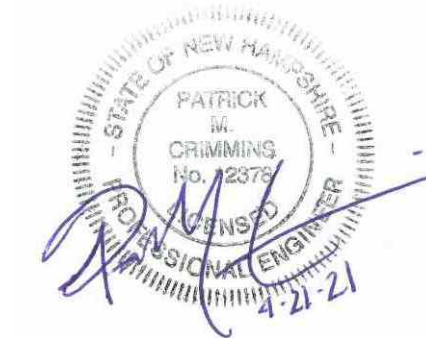
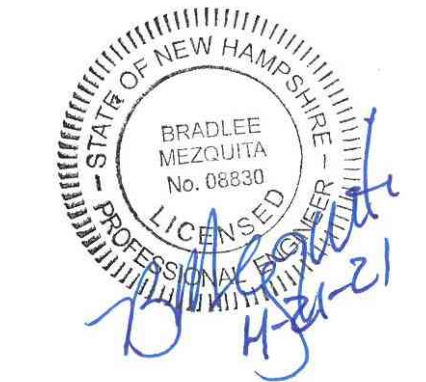
AASHTO #8 STONE (#8 to 3/8")		AASHTO #57 STONE (#4 to 1")	
SIEVE SIZE	% PASSING	SIEVE SIZE	% PASSING
1/2"	100	1-1/2"	100
3/8"	85-100	1"	95-100
#4	10-30	1/2"	25-60
#8	0-10	#4	0-10
#16	0-5	#8	0-5

- WET SEED MIX**
- 50% NEW ENGLAND WETLAND PLANTS- NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS & MOIST SITES
 - 50% NEW ENGLAND WETLAND PLANTS- NEW ENGLAND CONSERVATION WILDLIFE MIX

RAIN GARDEN DETAIL
NO SCALE



PLAN VIEW
SCALE: 1" = 20'



Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350
X-A004(818)

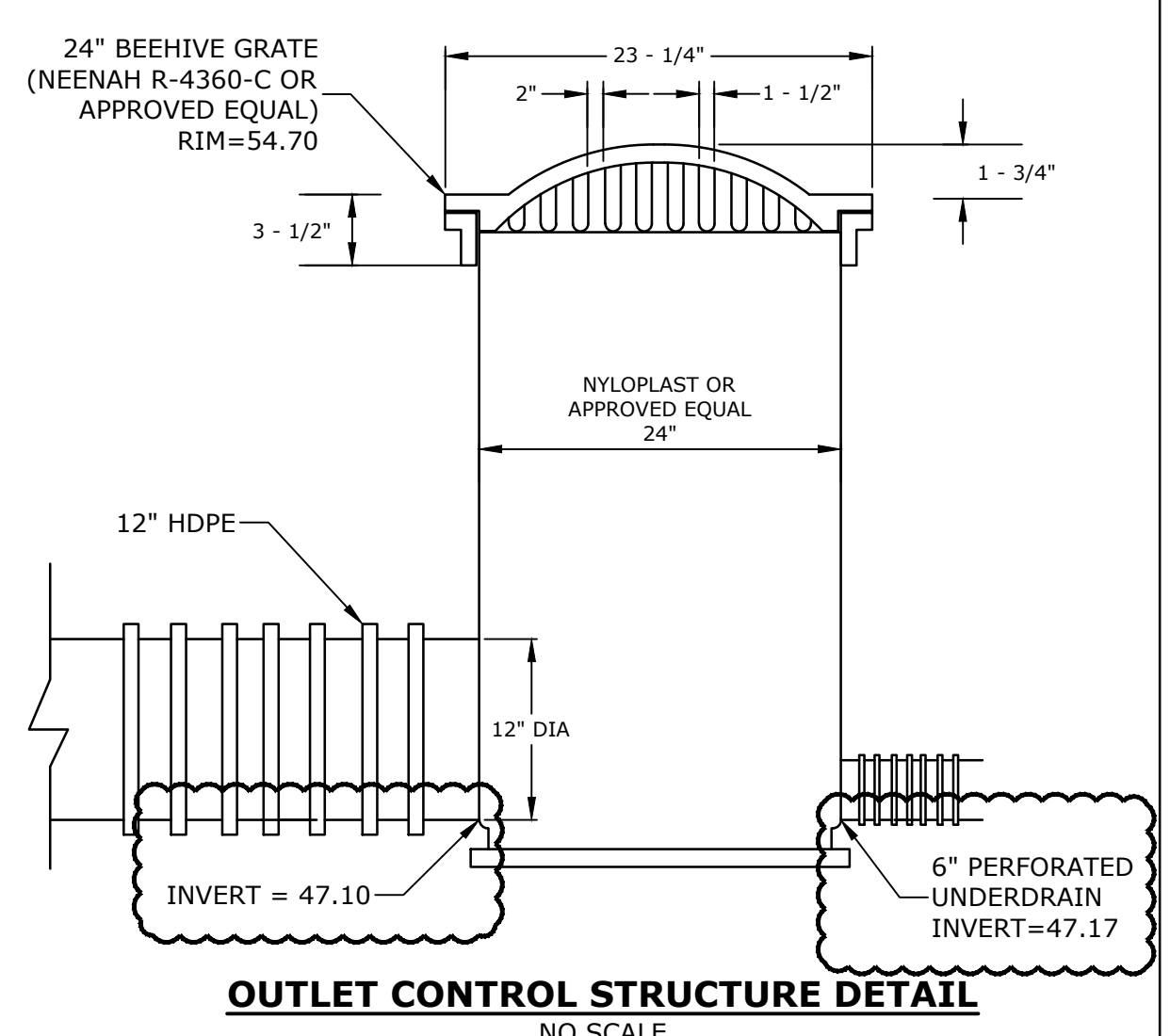
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A	1/7/2019	AoT Submission

PROJECT NO:	P-0714-005
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FILE:	P-0714-005-C-DTLS.dwg
DRAWN BY:	NAH/CLK
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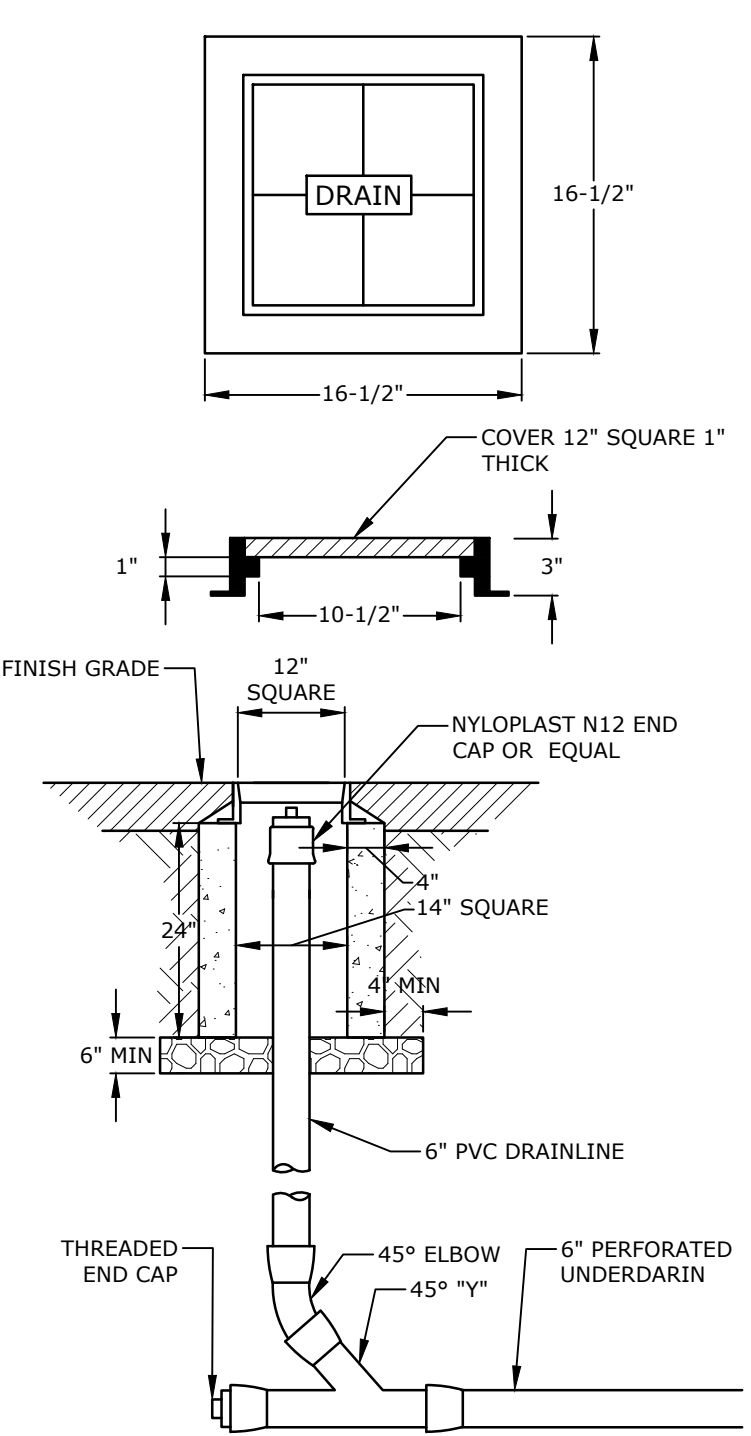
DETAILS SHEET

SCALE: AS SHOWN

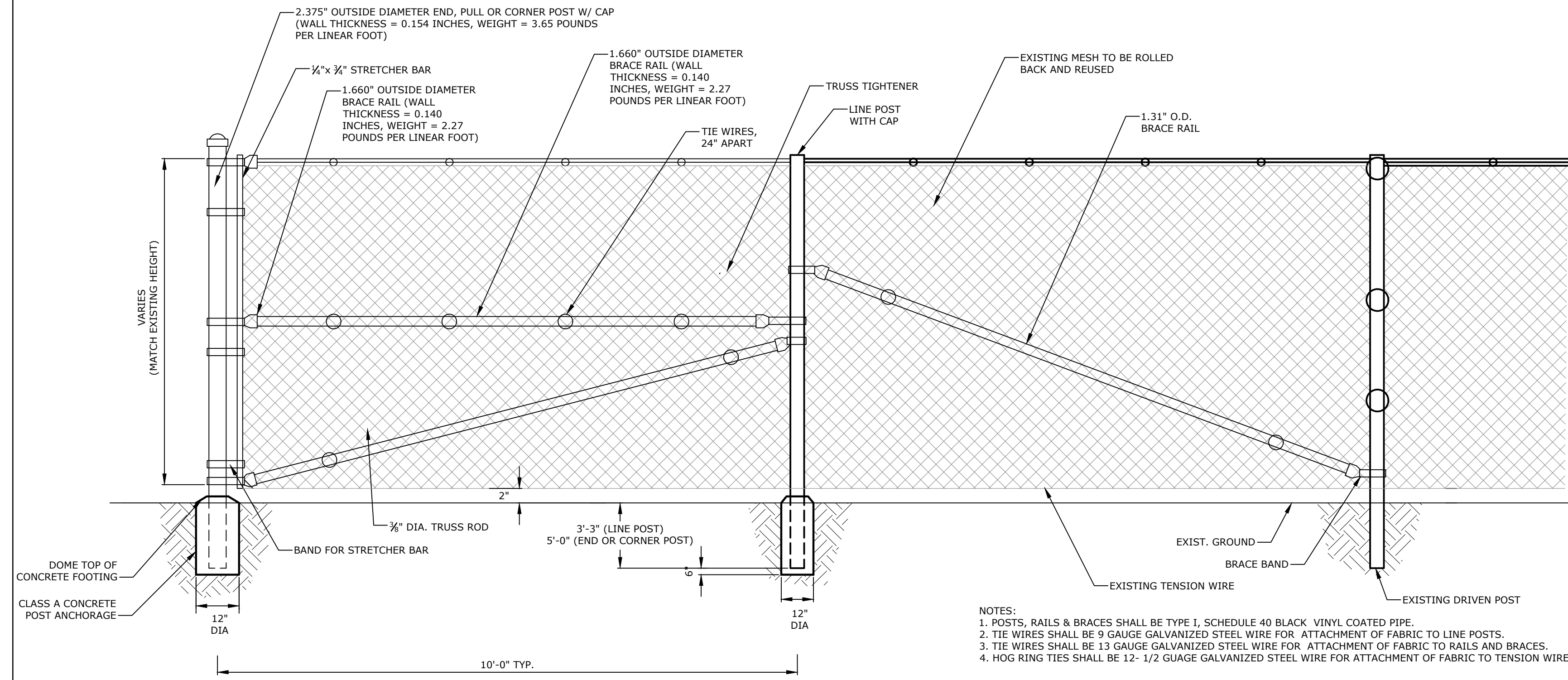
C-506



OUTLET CONTROL STRUCTURE DETAIL
NO SCALE



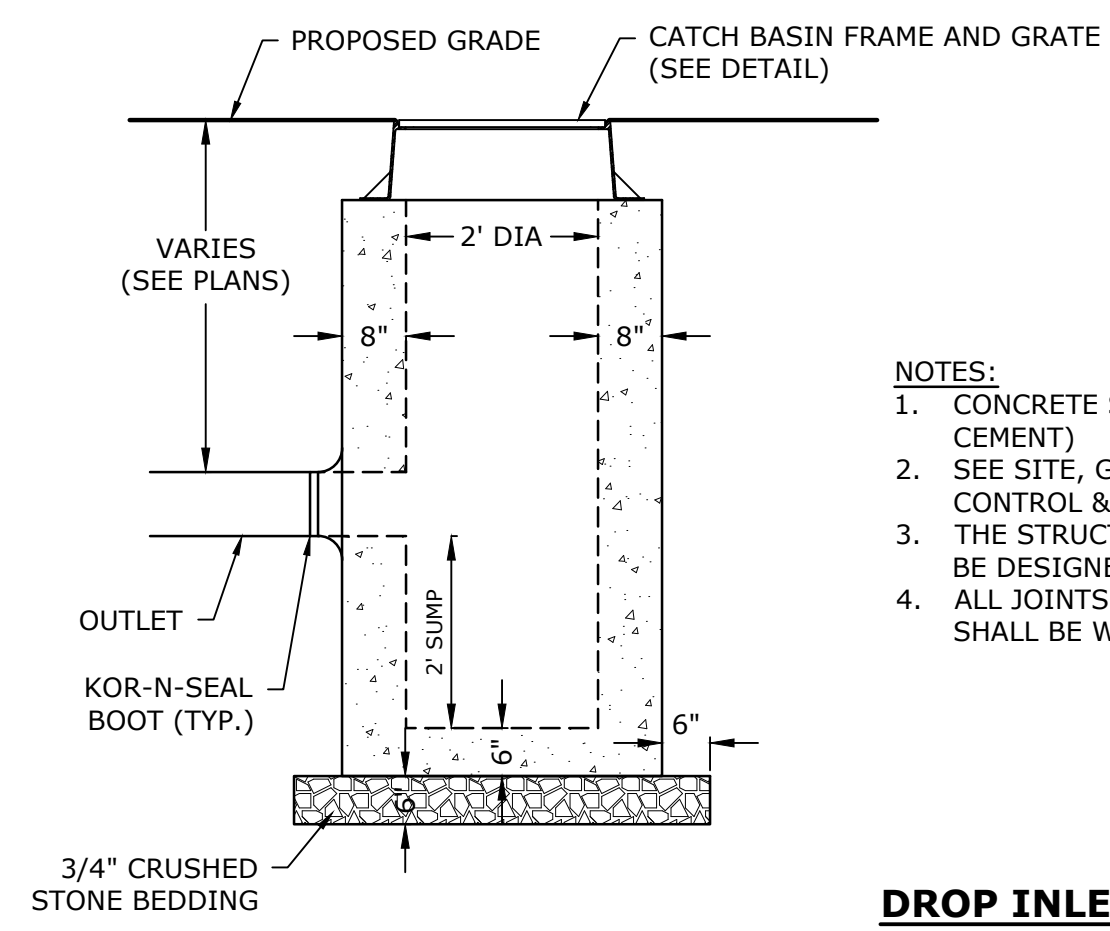
DRAIN CLEAN-OUT
NO SCALE



CHAIN LINK FENCE ANCHOR POST
NO SCALE

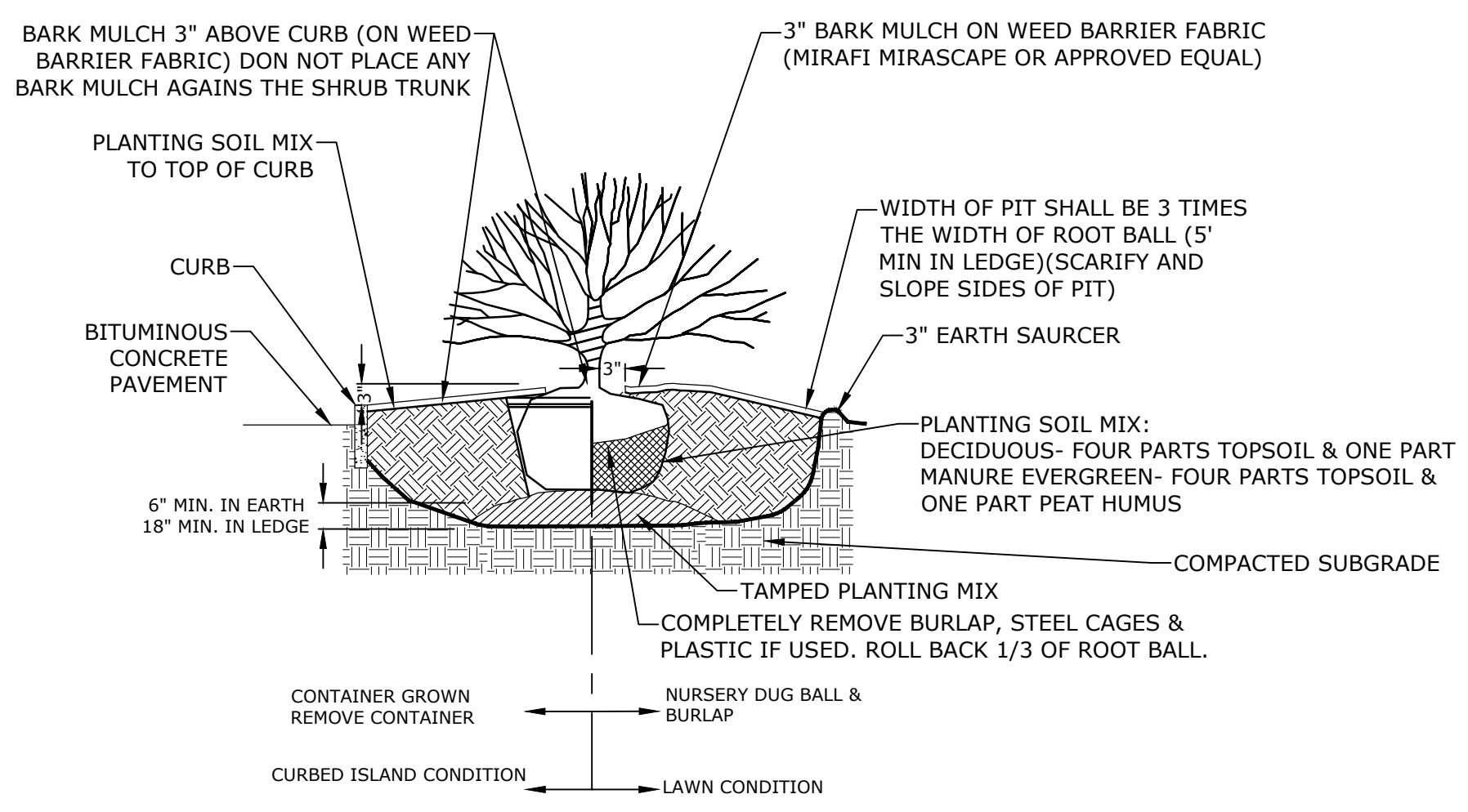
- NOTES:**
- POSTS, RAILS & BRACES SHALL BE TYPE I, SCHEDULE 40 BLACK VINYL COATED PIPE.
 - TIE WIRES SHALL BE 9 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO LINE POSTS.
 - TIE WIRES SHALL BE 13 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO RAILS AND BRACES.
 - HOG RING TIES SHALL BE 12- 1/2 GAUGE GALVANIZED STEEL WIRE FOR ATTACHMENT OF FABRIC TO TENSION WIRE.

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 Tighe & Bond 211 York St Portsmouth NH 02870
 Figures: AutocAD, VeeP-0714-005-C-DTLS.dwg



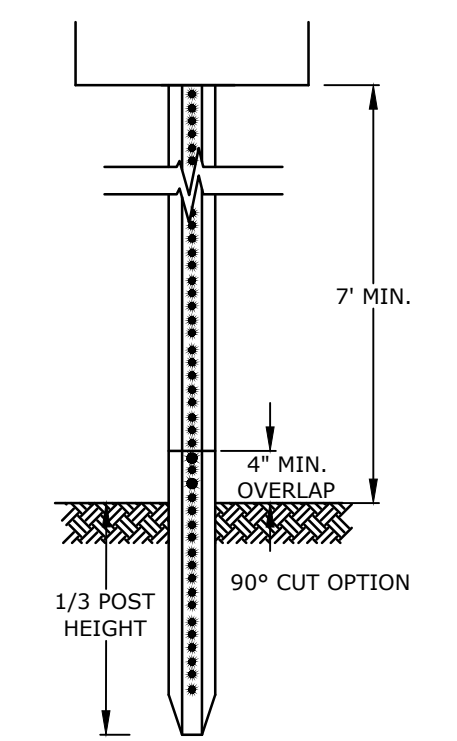
- NOTES:**
1. CONCRETE SHALL BE 4,000 PSI (TYPE II CEMENT)
 2. SEE SITE, GRADING, DRAINAGE, EROSION CONTROL & UTILITIES PLAN FOR LOCATIONS. THE STRUCTURES, FRAMES AND GRATES SHALL BE DESIGNED FOR H2O LOADING.
 3. ALL JOINTS ON THE STRUCTURE AND PIPING SHALL BE WATERTIGHT.

DROP INLET
NO SCALE



- NOTES:**
1. PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED, OR WITHIN 2" ABOVE.

SHRUB PLANTING
NO SCALE

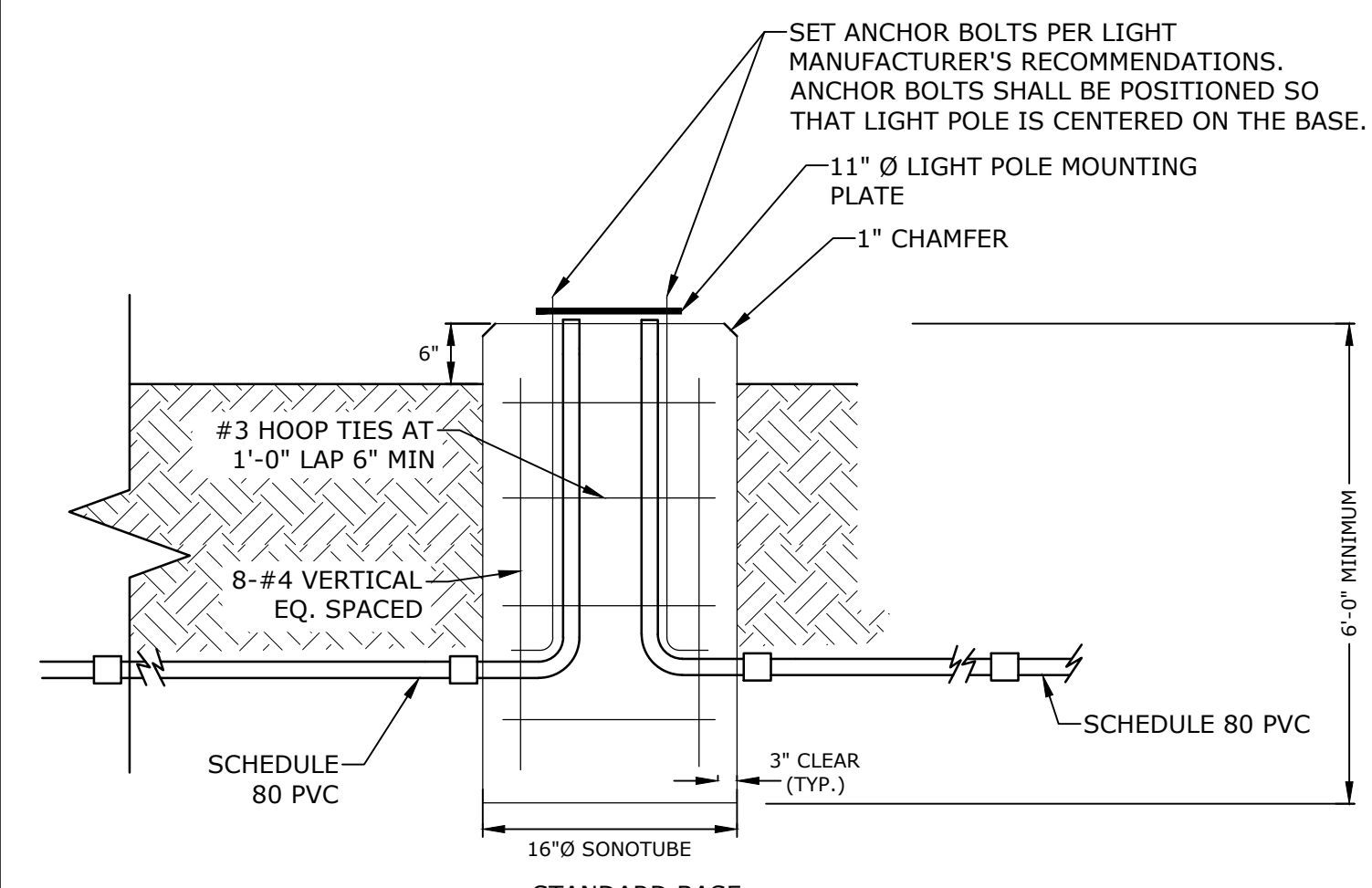
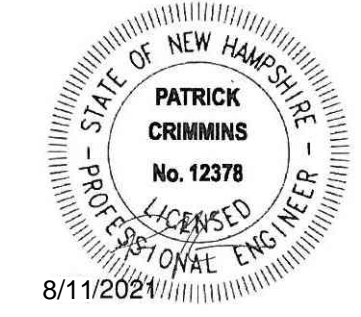


* IN LEDGE DRILL & GROUT TO A MIN OF 2'

SIGN POST TO COMPLY WITH ALL ASPECTS OF NHDOT SECTION 615.

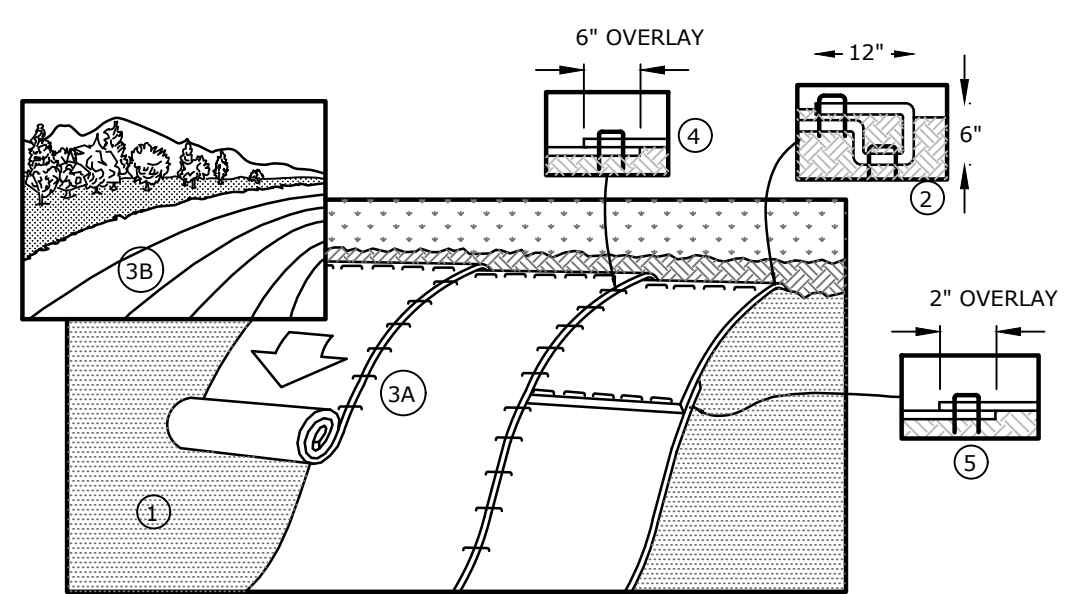
LENGTH: AS REQUIRED
WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)
HOLES: 3/8" DIAMETER, 1" C-C FULL LENGTH
STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070 - 1080)
FINISH: SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.

- NOTES:**
1. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499-81 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1-76 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT OF 91 LBS. OR GREATER PER LINEAR YARD.
 2. AFTER FABRICATION, ALL STEEL POSTS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A 123.
 3. ALL SIGN POSTS SHALL HAVE "BREAKAWAY" FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS-1985." THE "BREAKAWAY" FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 MPH WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 4. TYPE A POSTS - 3 LB/FT TYPE B POSTS - 4 LB/FT.
 5. 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.
 6. MEET REQUIREMENTS OF SECTION 615 SIGNS OF NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION, AS AMENDED.



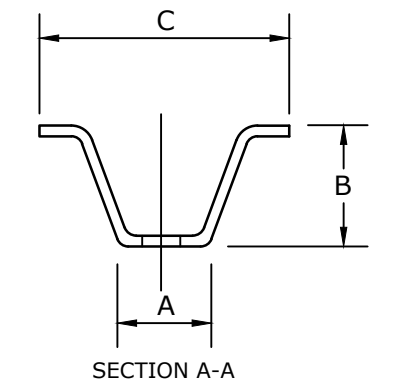
- NOTES:**
1. REFER TO ELECTRICAL PLANS FOR WIRING DETAILS.
 2. CONCRETE: 4000 PSI, CLASS A, PRE-CAST CONCRETE
 3. REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
 4. CONTRACTOR SHALL VERIFY BOLT TEMPLATE AND ANCHOR BOLT SIZE WITH POLE MANUFACTURER PRIOR TO CONSTRUCTION.
 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL, TO INCLUDE PERFORMANCE SPECIFICATIONS, CALCULATIONS AND NH LICENSED STRUCTURAL ENGINEER'S STAMP FOR LIGHT POLE FOUNDATION.

STANDARD BASE
NO SCALE



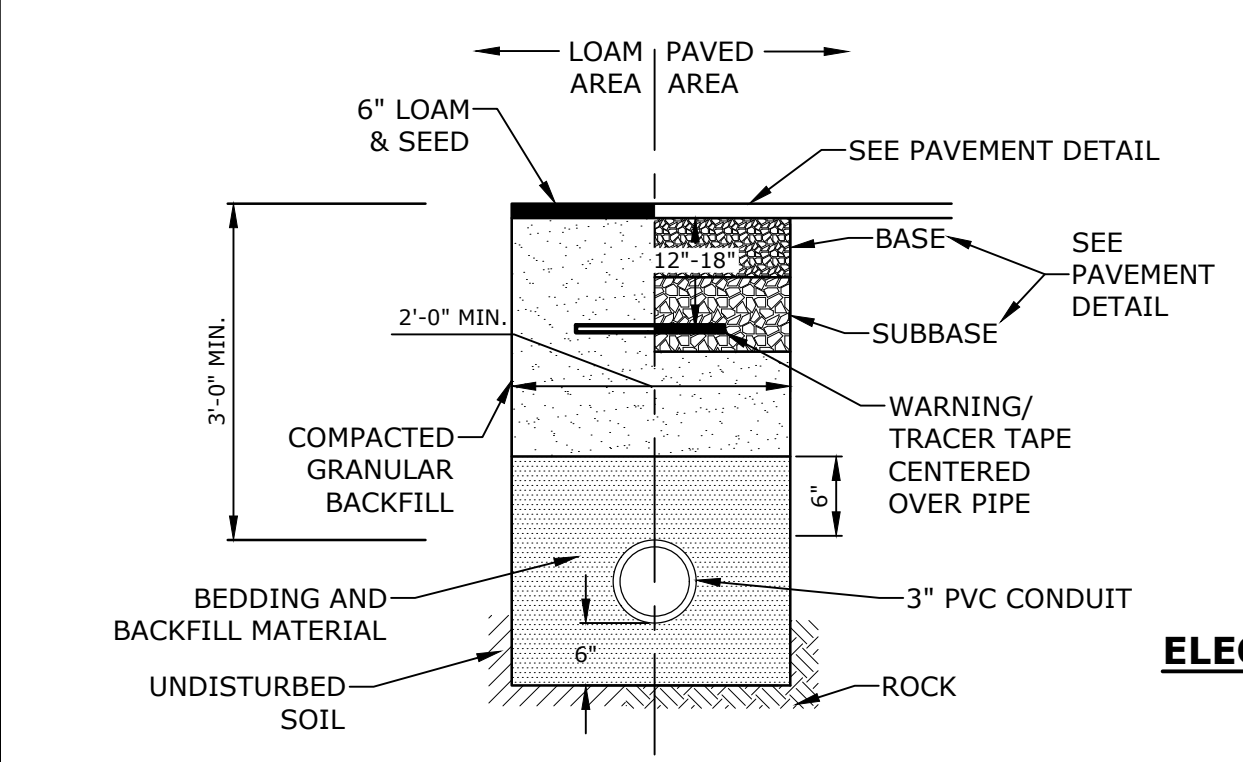
- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12" APART ACROSS THE WIDTH OF THE BLANKET.
 2. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.
 3. STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.
 4. EROSION CONTROL BLANKET SHALL BE 'NORTH AMERICAN GREEN BCN150' OR APPROVED EQUAL.
 5. WELDED PLASTIC OR BIODEGRADABLE PLASTIC NETTING OR THREAD WILL NOT BE ALLOWED ON SITE.
 6. SEE NOTES ON COVER SHEET RELATING TO ENDANGERED SPECIES, NH F&G ACCESS AND EROSION AND SEDIMENT CONTROL PRODUCT REQUIREMENTS.

STABILIZATION BLANKET
NO SCALE



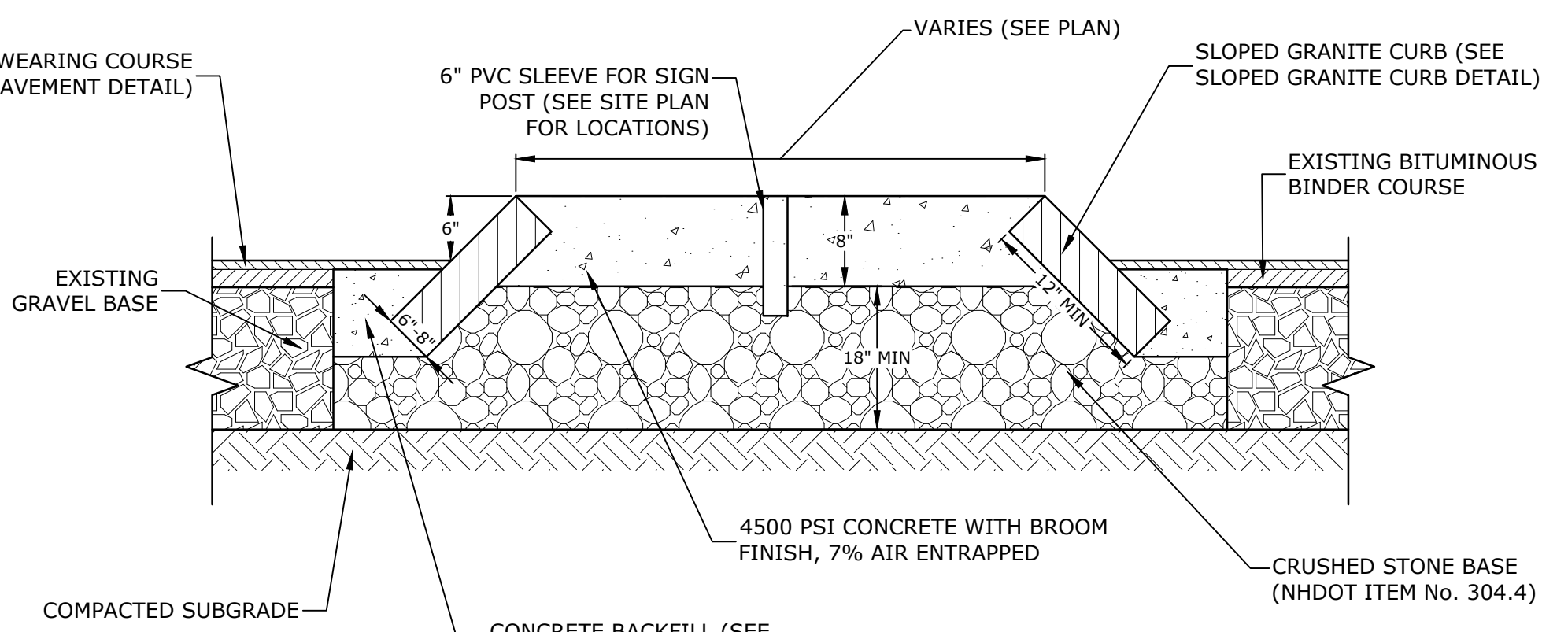
WT.	A	B	C
3 LBS	1 1/2" OR 1 3/8"	1 1/2" OR 1 1/2"	3 1/2"
4 LBS	1 3/4"	1 3/4"	3 1/2"

SIGN POST
NO SCALE



- NOTES:**
1. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW CONDUIT UP TO 6" ABOVE TOP OF CONDUIT.
 2. SAND BEDDING TO BE REPLACED WITH CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 3 FEET, WHEN LOCATED BELOW PAVEMENT, OR WHERE SHOWN ON THE UTILITIES PLAN.
 3. SCHEDULE 80 PVC SHALL BE USED UNDERNEATH PAVEMENT SECTIONS. OTHERWISE SCHEDULE 40 PVC SHALL BE USED.

ELECTRICAL CONDUIT TRENCH
NO SCALE



CURBED ISLAND DETAIL
NO SCALE

Longmeadow Road Extension

City of Portsmouth

Portsmouth, New Hampshire

Portsmouth #42350 X-A004(818)

MARK	DATE	DESCRIPTION
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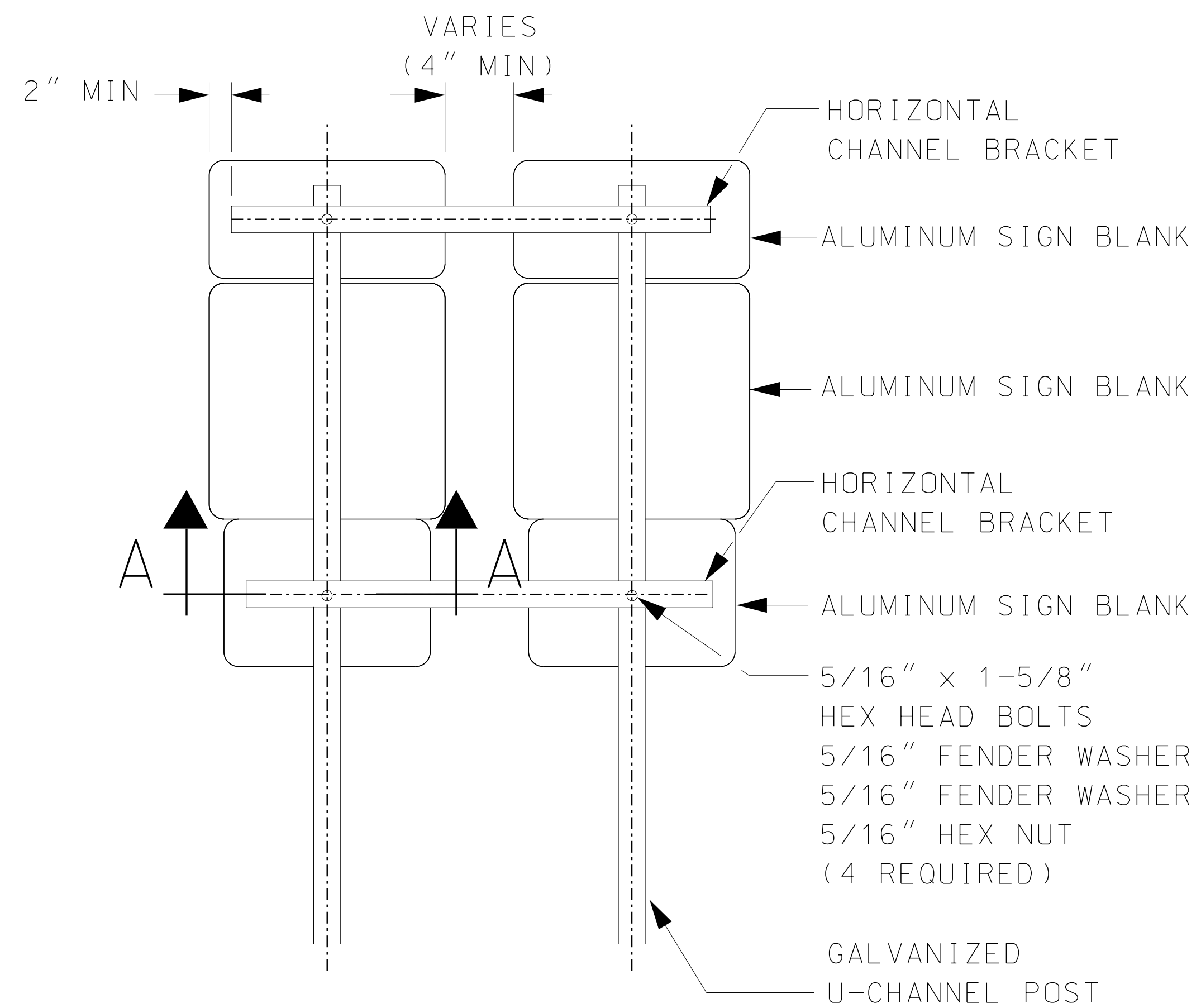
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CHECKED:	PMC
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DETAILS SHEET

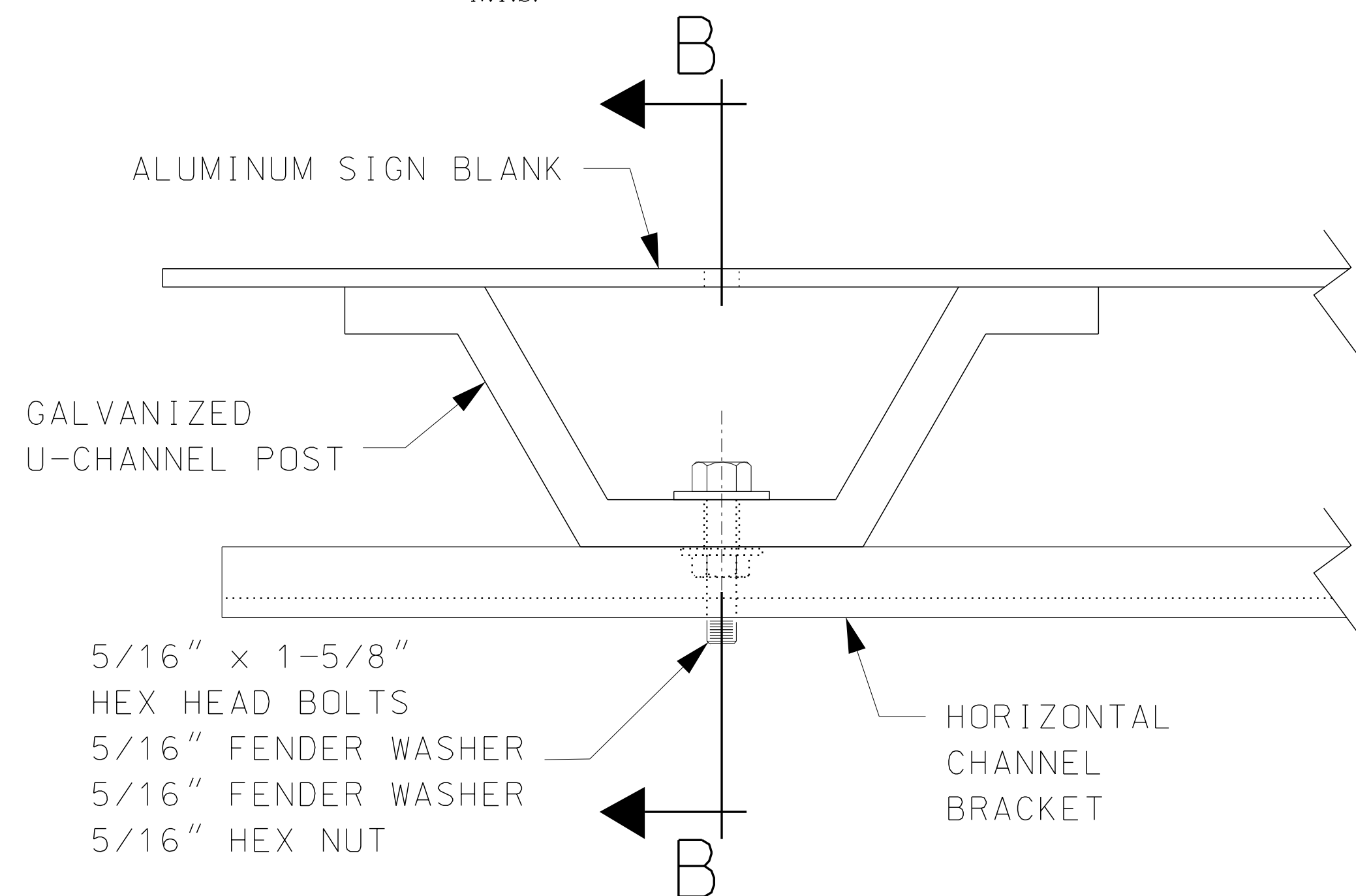
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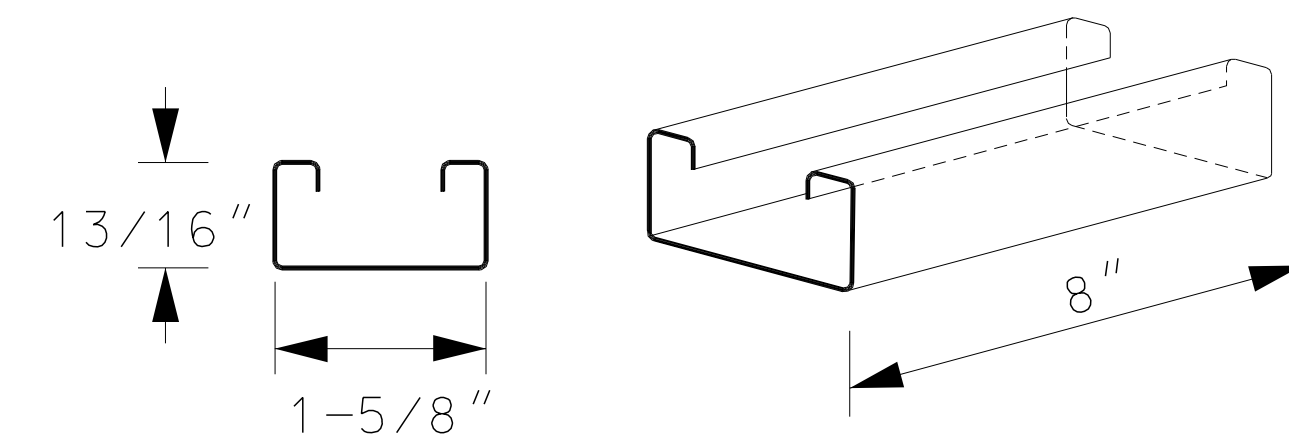
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 Plotted On: Aug 11, 2021 4:05pm
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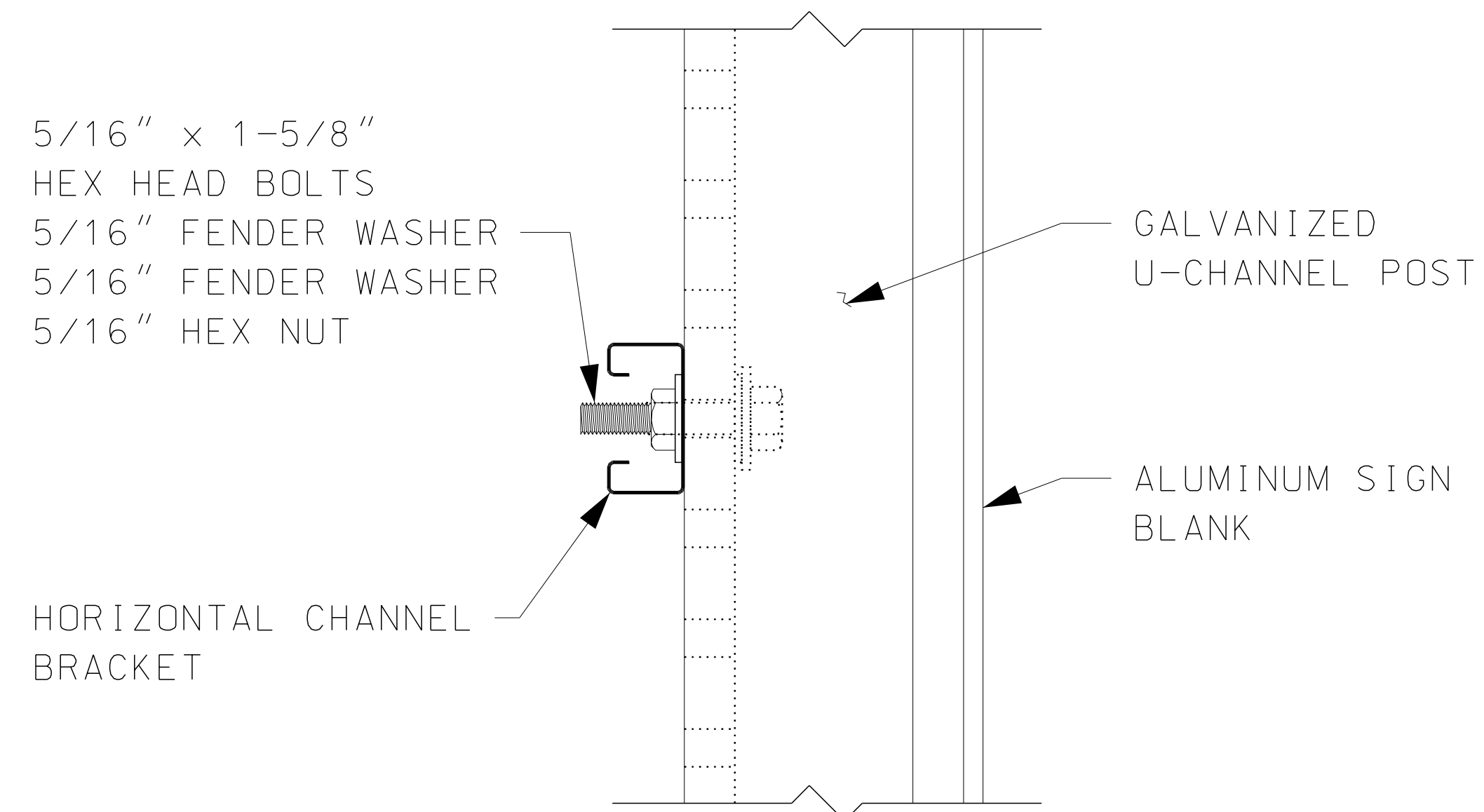
REAR VIEW
N.T.S.



SECTION A-A
N.T.S.



CHANNEL BRACKET 14 GAUGE
N.T.S.



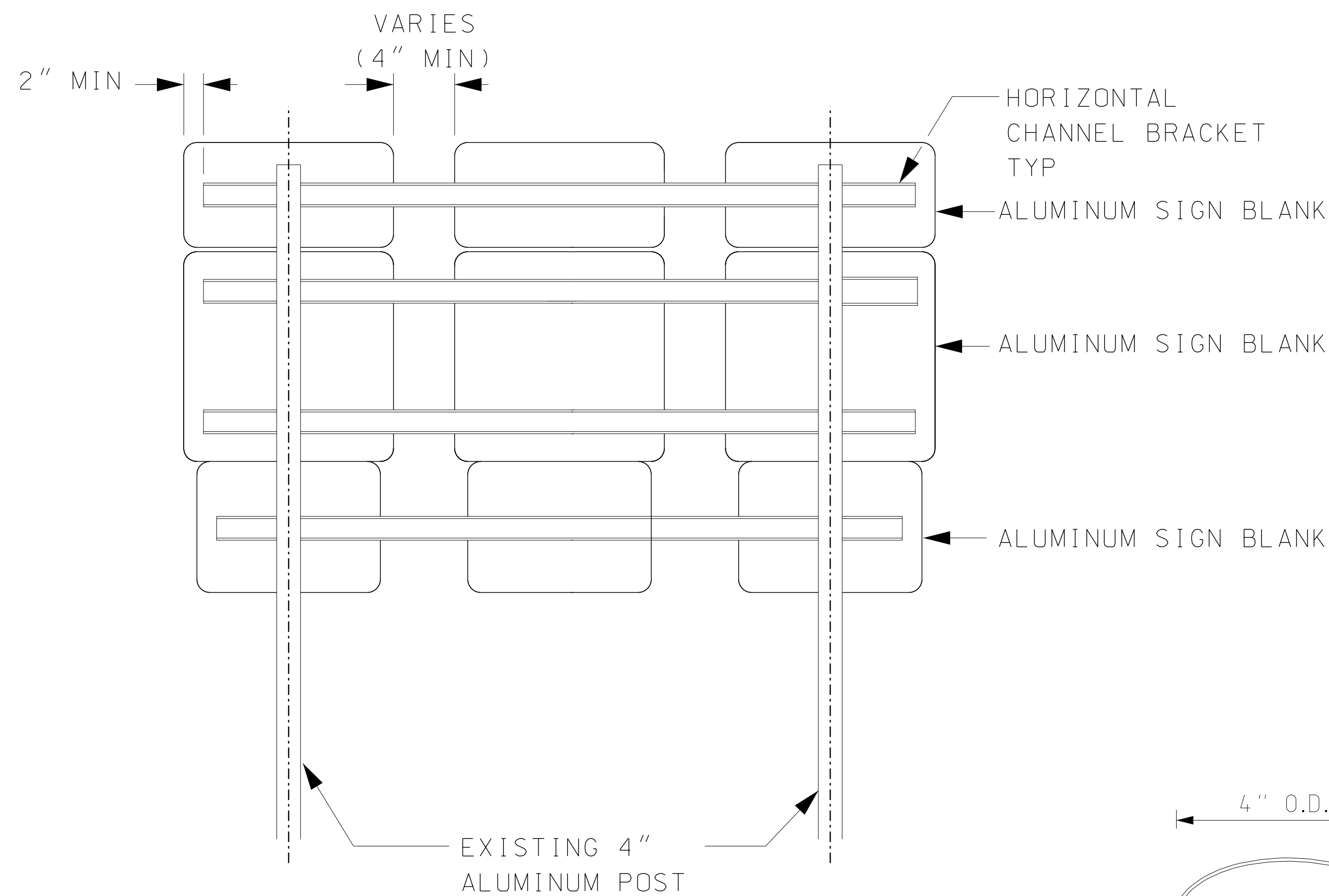
SECTION B-B
N.T.S.

GENERAL NOTES

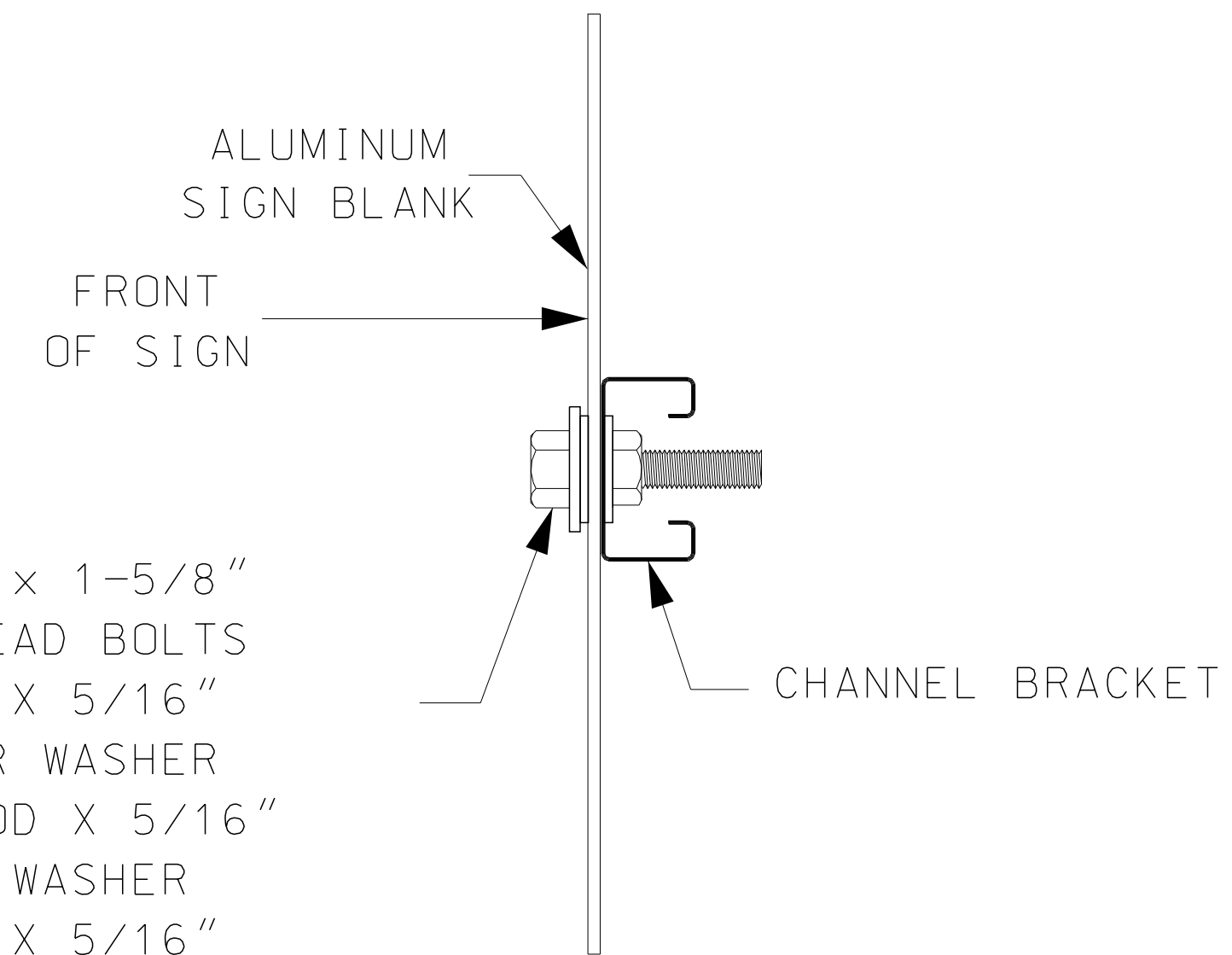
1. CHANNEL BRACKET MATERIALS, HARDWARE AND LABOR FOR THE INSTALLATION AS SHOWN SHALL BE SUBSIDIARY TO ITEM 615.0301.
2. ALL BOLTS, WASHERS, AND NUTS ARE TO BE STAINLESS STEEL. FENDER WASHERS SHALL BE A MINIMUM OF 1-INCH OUTSIDE DIAMETER.
3. FOR ADDITIONAL SIGN INSTALLATION DETAILS SEE NHDOT STANDARD PLANS FOR ROAD CONSTRUCTION AND THE LATEST EDITION OF NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

STATE OF NEW HAMPSHIRE				
DEPARTMENT OF TRANSPORTATION		BUREAU OF TRAFFIC		
ROUTE MARKER POST ASSEMBLY DETAIL				
MODEL	DGN	STATE PROJECT NO.	SHEET NO.	SHEET TOTAL
----	----	----	1	1

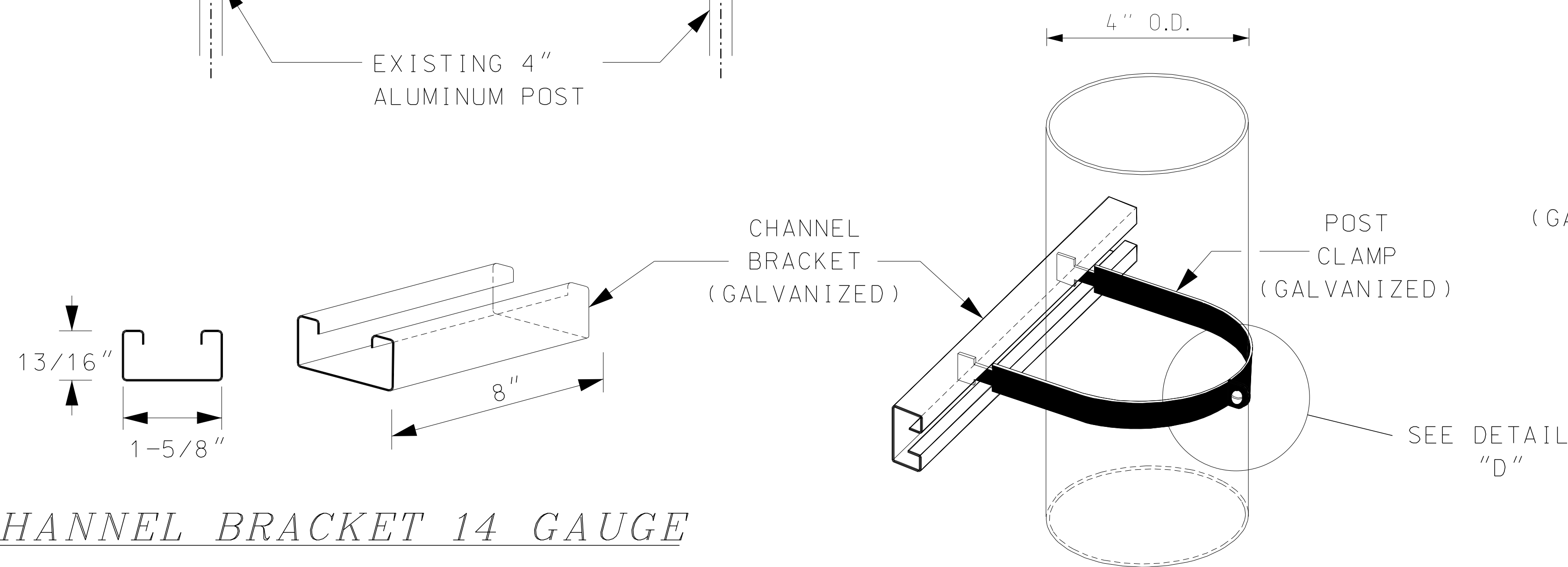
10-14-2020



- 5/16" x 1-5/8" HEX HEAD BOLTS
- 1" OD X 5/16" FENDER WASHER
- 3/4" OD X 5/16" NYLON WASHER
- 1" OD X 5/16" FENDER WASHER
- 5/16" HEX NUT

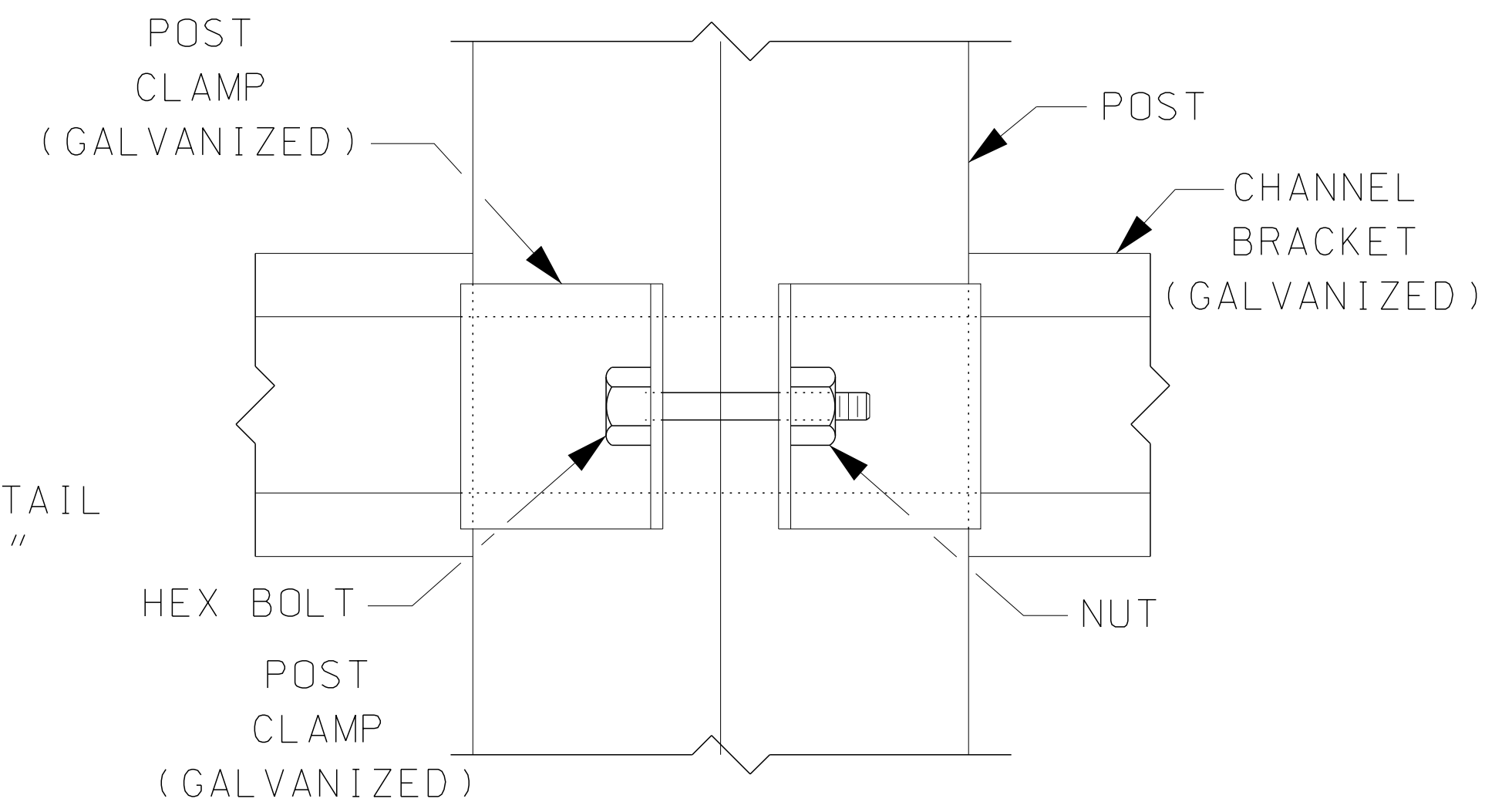


SIGN BLANK ATTACHMENT DETAIL



CHANNEL BRACKET 14 GAUGE

POST CLAMP 4" DIA. 11 GAUGE



DETAIL "D"

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10-14-2020