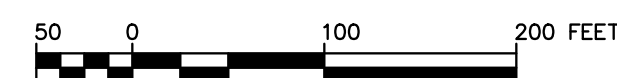


CUMBERLAND COUNTY
PROJECT LENGTH: 0.52 MILES
ROADWAY IMPROVEMENT PROJECT
JANUARY 2017



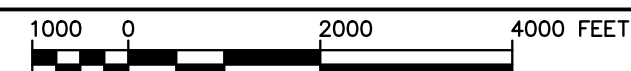
MaineDOT DESIGN EXCEPTIONS

1. SHOULDER WIDTH: HAS BEEN REDUCED ALONG THE GUARDRAIL TO 4- FEET (5- FEET REQUIRED) TO ALLOW 1- FOOT OF PAVEMENT BEHIND THE GUARDRAIL AND TO MINIMIZE THE WETLAND IMPACTS.
2. SHOULDER WIDTH: HAS BEEN REDUCED TO 4- FEET ALONG THE SOUTHERLY SIDE OF THE ROAD IN ORDER TO MINIMIZE THE WETLAND IMPACTS.
3. FIFTEEN (15) FEET IS PROVIDED IN BETWEEN THE CENTERLINE OF THE ROAD AND THE FACE OF THE GUARDRAIL.

Sevee & Maher Engineers, Inc.

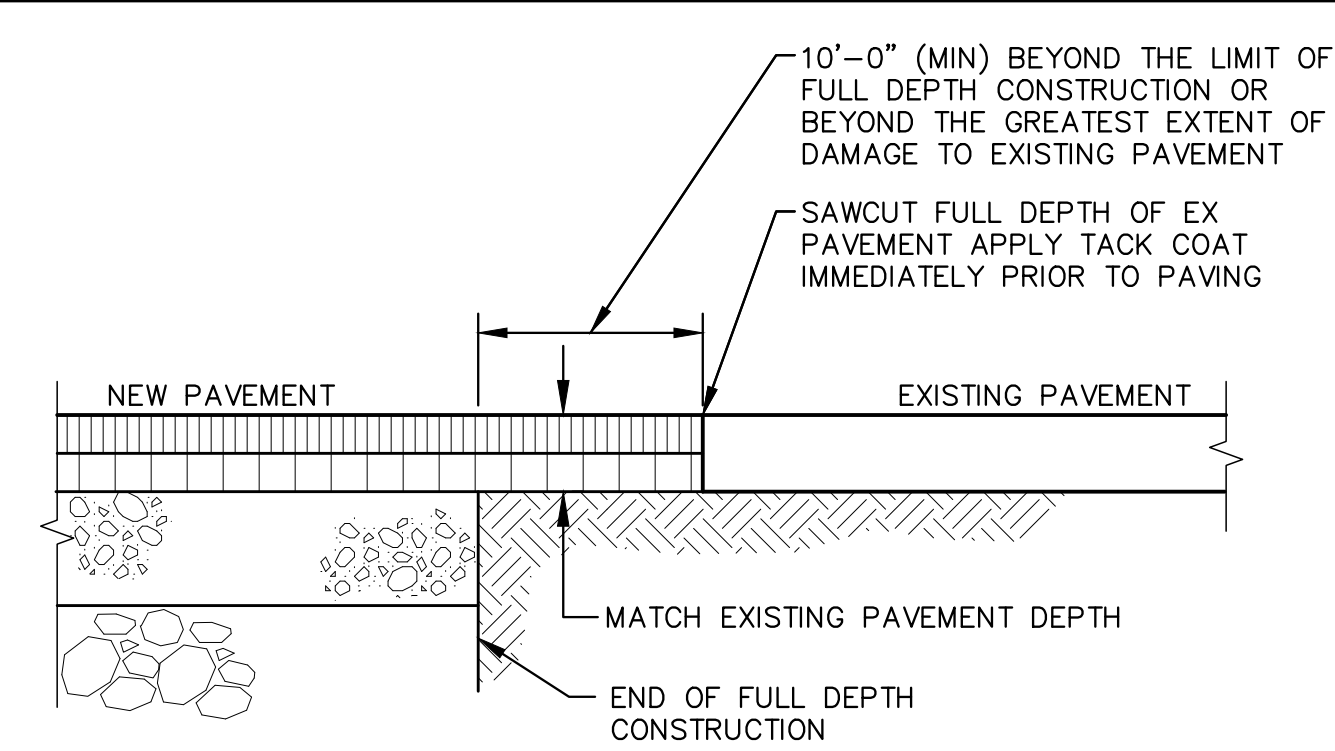
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com



TITLE	DWG NO
TITLE SHEET	
TYPICAL SECTIONS AND DETAILS	C-100
GENERAL NOTES AND LEGEND	C-101
SECTIONS AND DETAILS	C-102 TO C-104
TUTTLE ROAD SIDEWALK EXTENSION PLAN	C-200
TUTTLE ROAD RECONSTRUCTION PLAN AND PROFILE	C-201 TO C-202
RETAINING WALL PLAN AND PROFILE	C-203
CROSS SECTIONS	C-204 TO C-207





A cross-sectional diagram of a curb and gutter installation. The diagram shows a sidewalk on the left, a curb, a gutter, and a road surface. The layers from top to bottom are: Sidewalk, Loam and Seed, Tack Coat, Gutter Line, 2 inch Reveal, Finish Grade of Pavement, Base Gravel, Subbase Gravel, and Compacted material. Dimensions include a 9" width for the sidewalk, a 4 1/2" width for the gutter, and a 2" MIN. depth for the reveal. A 2" REVEAL dimension is also indicated for the gutter depth. The diagram is labeled with various components and dimensions.

Labels and dimensions in the diagram include:

- 9"
- 4 1/2"
- 2" REVEAL
- 2" MIN.
- SIDEWALK
- LOAM AND SEED
- TACK COAT
- GUTTER LINE
- FINISH GRADE OF PAVEMENT
- BASE GRAVEL
- SUBBASE GRAVEL
- COMPACTED

BITUMINOUS CURB

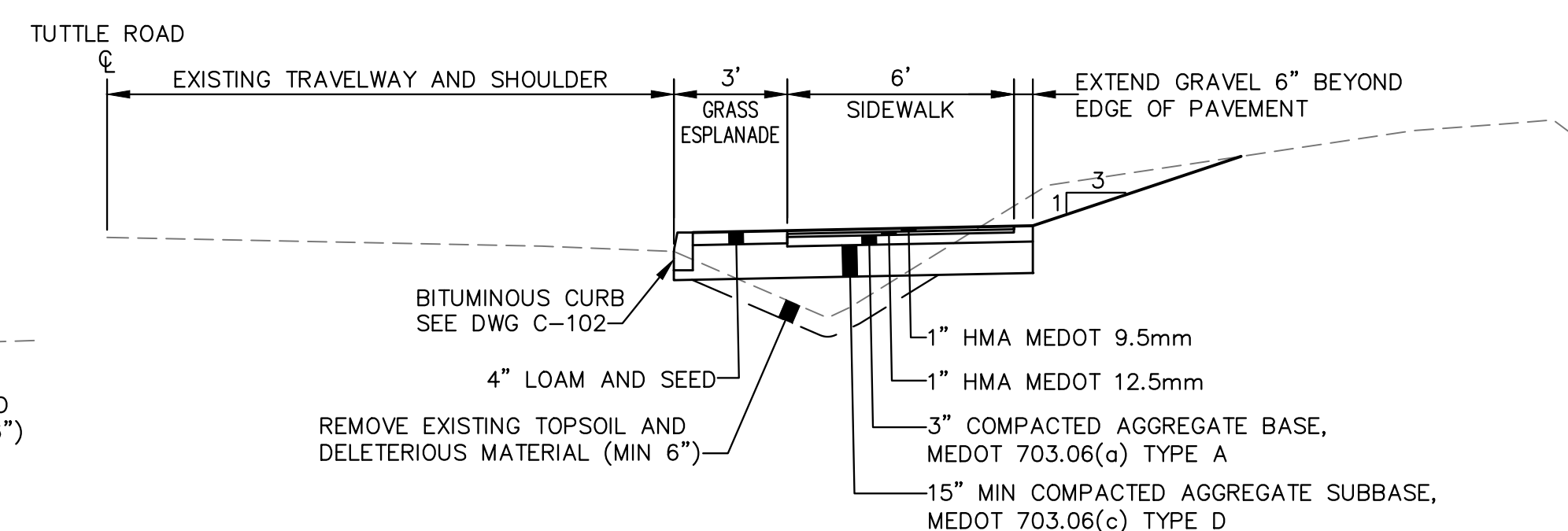


Diagram illustrating the cross-section of a road with a sidewalk. The total width of the sidewalk is 7'-0". The width of the area without the sidewalk is 4'-0". The diagram shows the top of the curb and the pavement surface.

BIT. CURB

END CURB SECTION

GRADE BREAK

1:12

ELEVATION

SLOPE 1% MIN TO DRAIN

1:12

DETECTABLE WARNING
SEE DETAIL THIS DWG

CURB LINE SEE
PLAN FOR RADIUS

END CURB SECTION

A detailed cross-sectional diagram of a sidewalk and ramp area. The diagram shows a concrete sidewalk with a dome-shaped detectable warning well. A ramp surface is shown adjacent to the sidewalk. Labels include: GUTTER LINE, CURB TIP DOWN, PEDESTRIAN RAMP (6' FOR 12:1 RAMP, 8' FOR 16:1 RAMP), SIDEWALK TIP DOWN, DOME, CONCRETE, RAMP SURFACE, DETECTABLE WARNING WELL, and COMPACTED A.S.C.G. The diagram also shows a cross-section of a road with a gutter line and a curb tip down.

Figure 1 is a schematic diagram of a concrete slab. It shows a cross-section of a slab with a grid of reinforcement bars. The outer layer is labeled 'CAST-IN-PLACE CONCRETE'. A horizontal line across the middle is labeled 'A-A'' with arrows pointing to the left and right. The grid of reinforcement bars is labeled 'DEFECTABLE' with an arrow pointing to it.

[illegible]

6'-0" MAX JOINT

3"

VARIES

3"

WELDED STEEL WIRE FABRIC

Diagram illustrating the joint details for a concrete slab. The joint length is specified as 6'-0" MAX JOINT. The joint is offset by 6" from the slab edges. The joint is supported by a minimum 10" AGGREGATE SUBBASE TYPE B. The joint is also offset by 4" and 8" from the slab edges.

	JC M	1/2017	ISSUED FOR BID
REV.	BY	DATE	STATUS

[illegible]

SME
Sevee & Maher Engineers, Inc.

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: TJP
DRAWN BY: SJM
DATE: 4/1/2016
CHECKED BY:
LMN: NONE
CTB: SME-STD
C-100

GENERAL NOTES:

1. EXISTING TOPOGRAPHY FROM PLAN ENTITLED "EXISTING CONDITIONS SURVEY PREPARED FOR SEVEE & MAHAR INC OF PORTION OF TUTTLE ROAD JUNE POND MAINE" BY BOUNDARY POINTS PROFESSIONAL LAND SURVEYORS, INC, DATED 10-12-2015. SEE SURVEYORS NOTES ON THIS DWG FOR MORE INFORMATION.
2. WETLAND BOUNDARIES DELINEATED BY AL FRICK OF FALMOUTH, MAINE, DATED 1/7/2016.
3. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.
4. THE MAINEDOT AND THE TOWN OF CUMBERLAND SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIALS IN PROGRESS OR COMPLETED. THE MAINEDOT AND THE TOWN OF CUMBERLAND SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS.
5. ALL SIGNING, SIGNAL AND STRIPING MATERIALS AND PLACEMENT SHALL CONFORM TO THE MAINEDOT STANDARD SPECIFICATIONS, NOVEMBER 2014 EDITION, SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS AND WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2009 EDITION.
6. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDDED, UNLESS OTHERWISE NOTED. SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS, AND SEEDING METHOD NO. 2 SHALL BE USED IN PROVIDE OTHER LOCATIONS. LOAM SHALL BE PLACED TO A MINIMUM DEPTH OF 4" IN METHOD NO. 1 AREAS, AND 2" IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.
7. DISPOSITION OF SURPLUS MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SURPLUS MATERIAL SHALL NOT BE DISPOSED OF ON THE PROJECT SITE. DISPOSITION SHALL BE MADE ONLY AT WASTE AREAS WHICH ARE LICENSED TO ACCEPT SUCH MATERIALS, UNLESS THE MATERIALS CAN BE INCORPORATED IN FILLS IN OTHER PROJECTS OF THE CONTRACTOR. ALL WASTE AREAS SHALL BE APPROVED BY THE RESIDENTS.
8. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARD FOR EXCAVATIONS).
9. THE CONTRACTOR SHALL CONTACT DIG-SAFE AND APPROPRIATE AUTHORITIES PRIOR TO ANY SUBSURFACE ACTIVITIES.
10. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.
11. ALL CLEARING AND TRIMMING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING AND TRIMMING SHALL BE ESTABLISHED BY THE CONTRACTOR AND APPROVED IN THE FIELD BY THE ENGINEER.
12. BUTT JOINTS SHALL BE USED AT ALL LOCATIONS WHERE THE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OPENING PERMITS. CONTRACTOR SHALL BE RESPONSIBLE APPLYING FOR AND ALL COSTS ASSOCIATED WITH OBTAINING OPENING PERMITS FROM THE TOWN IF REQUIRED.
14. MAINTENANCE OF TRAFFIC SHALL BE PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2009 EDITION.
15. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL NECESSARY BARRICADES, LIGHTS, WARNING SIGNS AND OTHER DEVICES TO SAFEGUARD TRAFFIC PROPERLY WHILE WORK IS IN PROGRESS FOR THE DURATION OF THE PROJECT.
16. DRIVEWAY ACCESSSES SHALL BE MAINTAINED AT ALL TIMES.
17. THE CONTRACTOR SHALL SUBMIT A PLAN TO CONTROL TRAFFIC DURING THE PERIOD OF CONSTRUCTING THE IMPROVEMENTS TO THE MAINEDOT, ENGINEER AND THE TOWN OF CUMBERLAND FOR APPROVAL WHICH CONFORMS TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", 2009 EDITION. THE CONTRACTOR MUST MAINTAIN TWO WAY TRAFFIC WHENEVER PRACTICABLE AND MUST MAINTAIN AT LEAST ONE WAY ALTERNATING TRAFFIC FLOW AT ALL TIMES. ALL TRAFFIC SHALL BE CONTROLLED DURING THE PERIOD OF CONSTRUCTION IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN APPROVED BY THE MAINEDOT.
18. THE CONTRACTOR SHALL COMPLY WITH THE INSURANCE REQUIREMENTS OUTLINED UNDER SECTION 110 IN THE DEPARTMENT'S STANDARD SPECIFICATIONS NOVEMBER 2014 EDITION (HEREAFTER STANDARD SPECIFICATIONS). MINIMUM INSURANCE REQUIREMENTS SHALL INCLUDE AT LEAST WORKERS' COMPENSATION INSURANCE, COMMERCIAL GENERAL LIABILITY AND AUTOMOBILE LIABILITY INSURANCE THEREIN. THE CONTRACTOR SHALL PROVIDE THE TOWN WITH DEPARTMENT WITH SATISFACTORY PROOF OF SUCH INSURANCE COVERAGE. IN THE EVENT THAT SUCH INSURANCE IS TERMINATED OR CANCELED WITHOUT BEING REPLACED WITH COMPARABLE INSURANCE, THE DEPARTMENT MAY SUSPEND OR TERMINATE THE CONSTRUCTION OF ALL TRAFFIC IMPROVEMENTS IN PROGRESS AT THE TIME OF SUCH TERMINATION OR CANCELLATION.
19. THE CONTRACTOR SHALL PROVIDE THE MAINEDOT AND THE TOWN WITH A PERFORMANCE BOND, CERTIFIED CHECK OR OTHER NEGOTIABLE SECURE TO THE OWNER IN THE FULL AMOUNT OF THE COST TO CONSTRUCT SUCH IMPROVEMENTS WHICH CONFORMS TO THE GENERAL REQUIREMENTS FOR SUCH SURETY AS OUTLINED UNDER SECTION 110.2 IN THE STANDARD SPECIFICATIONS.
20. THE CONTRACTOR SHALL PROVIDE THE DEPARTMENT AND THE TOWN OF CUMBERLAND WITH A SCHEDULE OF WORK FOR CONSTRUCTING THE IMPROVEMENTS, AND AN EMERGENCY CONTACT LIST.
21. ALL IMPROVEMENTS SHALL BE CONSTRUCTED AS SHOWN ON THE FINAL PLANS IN ACCORDANCE WITH THE MAINEDOT STANDARD SPECIFICATIONS NOVEMBER 2014 EDITION, DETAILS AND ANY REVISIONS.
22. THE CONTRACTOR SHALL ALLOW OR ARRANGE FOR THE MAINEDOT, ITS INSPECTORS, AGENTS, EMPLOYEES, CONTRACTORS OR INVITED GUESTS, TO ENTER UPON ANY LAND OWNED OR CONTROLLED BY THE CONTRACTOR OUTSIDE OF AND ADJOINING THE RIGHT-OF-WAY OF ANY HIGHWAY OR PUBLIC WAY, WHICH MAY BE USED FOR CONSTRUCTION OF THE TRAFFIC IMPROVEMENTS, AT ANY AND ALL TIMES AND FOR ANY AND ALL PURPOSES NECESSARY OR INCIDENTAL TO SUCH INSPECTION OR TESTING.
23. THE PLACEMENT OF BITUMINOUS PAVING MATERIALS SHALL BE SUBJECT TO ALL OF THE WEATHER AND SEASONAL LIMITATIONS OUTLINED UNDER MAINE DOT STANDARD SPECIFICATIONS, NOVEMBER 2014 EDITION DIVISION 400, PAVEMENTS, SECTION 401, PARAGRAPH 401.06.
24. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE AND RESET POST SIGNS, MAILBOXES, AND POLES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT BID PRICES. IF ANY DAMAGE OCCURS TO POSTS, SIGNS, MAILBOXES OR ASSOCIATED HARDWARE DURING REMOVAL, STORAGE OR RESETTING, THE DAMAGED MATERIALS SHALL BE REPLACED BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
25. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. UNDERGROUND FACILITIES INDICATED ON THE CROSS SECTIONS HAVE BEEN CARRIED OVER FROM THE PLAN VIEW DATA AND MAY ALSO INCLUDE FURTHER APPROXIMATIONS OF THE ELEVATIONS BASED UPON STRAIGHT LINE INTERPOLATION FROM THE NEAREST MANHOLES, GATE VALVES, OR TEST PITS. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK AND SCHEDULE AND THE UTILITY RELOCATION WORK WITH THE PROPER UTILITY COMPANY. UTILITY CONTACTS FOR THIS PROJECT ARE:
- CENTRAL MAINE POWER
CONTACT: THOMPSON ATWOOD
TELEPHONE: (207) 791-1022
CENTRAL MAINE POWER
162 CANCO ROAD
PORTLAND, MAINE 04103

FAIRPOINT
CONTACT: MR. MARTY PEASE
TELEPHONE: (207) 797-1119
FAIRPOINT
5 DAVIS FARM ROAD
PORTLAND, MAINE 04103

TIME WARNER CABLE
CONTACT: MARK PELLETER
TELEPHONE: (207) 253-2324
TIME WARNER CABLE
118 JOHNSON ROAD
PORTLAND, MAINE 04102

PORTLAND WATER DISTRICT
CONTACT: JAY ARNOLD
TELEPHONE: (207) 774-5961
P.O. BOX 3553
225 DOUGLASS STREET
PORTLAND, MAINE 04530
26. ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
27. PROPERTY LINE AND R.O.W. MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE, BY A MAINE PROFESSIONAL LAND SURVEYOR.
28. EXISTING CONDITIONS BASED ON SURVEY COMPLETED BY BOUNDARY POINTS.
29. CONSTRUCTION SHALL NOT COMMENCE UNTIL AUTHORIZED BY THE TOWN.
30. THE CONTRACTOR SHALL SUBMIT A QC PLAN AS OUTLINED UNDER MAINE DOT STANDARD SPECIFICATIONS, NOVEMBER 2014 EDITION DIVISION 400, PAVEMENTS, SECTION 401, PARAGRAPH 401.19, FOR APPROVAL BY THE MAINEDOT AND ENGINEER. THE ACCEPTANCE METHOD SHALL BE METHOD D. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF ANY PAVING. THE DENSITY REQUIREMENTS AND DISINCENTIVE SHALL APPLY AS OUTLINED IN SECTION 401.204 OF THE MAINE DOT, SECTION 401. CORES WILL NOT BE REQUIRED. THE TOWN MAY TAKE SAMPLES FOR TESTING AT THEIR DISCRETION TO DETERMINE IF THE MIX IS WITHIN THE TOLERANCES LISTED IN TABLE 8 OF SECTION 401.204.
31. ALL PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED SHALL BE REMOVED IN ACCORDANCE WITH THE MAINEDOT SPECIFICATIONS.
32. ALL NEW SIGNS SHALL HAVE HIGH INTENSITY RETRO-REFLECTIVE SHEETING. WHEN WOOD POSTS ARE USED THEY SHALL BE PRESSURE TREATED.
33. A TACK COAT OF EMULSIFIED ASPHALT, RS-1 OR HFMS-1 SHALL BE APPLIED TO ANY EXISTING PAVEMENT AT A RATE OF APPROXIMATELY 0.025 GALLON/S.Y., AND ON MILLED PAVEMENT APPROXIMATELY 0.050 GALLONS/S.Y. A FOG COAT OF EMULSIFIED ASPHALT SHALL BE BETWEEN SHIM/INTERMEDIATE COURSE AND THE SURFACE COURSE, AT A RATE NOT TO EXCEED 0.025 GALLONS/S.Y.
34. THE CONTRACTOR SHALL COMPLETE THE WORK WITHIN RIGHTS-OF-WAY OR EASEMENTS, AND WILL BE RESPONSIBLE IF TRESPASSING OCCURS ON PRIVATE PROPERTY.
35. ALL EXISTING WATER VALVE COVERS AND ANY OTHER EXISTING UTILITIES SHALL BE ADJUSTED TO GRADE BY THE APPROPRIATE UTILITY COMPANY.
36. ALL EXISTING DRAINAGE CATCH BASIN AND OUTLET INFORMATION SHALL BE FIELD VERIFIED PRIOR TO ORDERING NEW STRUCTURES.
37. ALL GUARDRAIL SHALL BE GALVANIZED OR APPROVED EQUIVALENT.
38. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT. ESTIMATED

- GRUBBING DEPTHS ARE 6 INCHES IN FIELD AREAS AND 12 INCHES IN WOODED AREAS.
39. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.
40. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.
41. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.
42. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
- ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS

ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT

ALL DITCHING AT PIPE ENDS

FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW USED UNDER PIPES.

GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL.

ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES

FLOW LINES MAY BE CHANGED BY 1.5 FT

ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS

BACKFILL ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT AREAS OF PROPOSED CATCH BASINS
43. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
44. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
45. ALL 6" UNDERDRAIN SHOWN ON THE CROSS SECTIONS WILL HAVE THE FLOW LINE SCALED FROM THE CROSS SECTIONS. ALL FLOW LINE ELEVATIONS ARE SUBJECT TO APPROVAL BY THE RESIDENT.
46. A 3 FT. X 3 FT. SQUARE RIPRAP PAD SHALL BE CONSTRUCTED AT U.D. OUTLETS.
47. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.
48. HOLES CREATED BY GUARDRAIL INSTALLATION WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
49. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS WILL BE INSTALLED AT EACH GUARDRAIL END, AND SHALL BE INCIDENTAL TO THE 606 ITEMS.
50. A DELINEATOR POST (ITEM 606.35) WILL BE INSTALLED AT EACH UNDERDRAIN OUTLET, AND SHALL BE INCIDENTAL TO THE 606 ITEMS.
51. LOAM HAS BEEN ESTIMATED FOR DISTURBED AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
52. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. MAILBOXES SHALL BE RELOCATED SO THAT THE POSTS ARE 1 FOOT BEHIND EDGE OF SHOULDER OR AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK; IT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
53. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL SIDE STAKING OF EXISTING CENTERLINE AS PER STANDARD SPECIFICATION 105.6.2. SIDE STAKES SHALL BE PLACED SAFELY OUTSIDE OF THE CONSTRUCTION LIMITS AND THE EXISTING CENTERLINE GRADES SHALL BE TRANSFERRED TO THESE STAKES.
54. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
55. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.
56. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
57. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.
58. PRIOR TO ROADWAY CONSTRUCTION, CONTRACTOR SHALL TRIM ALL TREE BRANCHES WITHIN RIGHT OF WAY, TO 18 FEET ABOVE THE PAVEMENT. AFTER PAVING IS COMPLETED, CONTRACTOR SHALL TRIM ANY BRANCHES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION, TRIMMING OF BRANCHES SHALL BE INCIDENTAL TO THE CONTRACT.
59. TEST PITS OF ALL UTILITY CROSSINGS SHALL BE COMPLETED TWO WEEKS IN ADVANCE OF THE START OF CONSTRUCTION OR ORDERING OF MATERIALS. TEST PIT INFORMATION SHALL BE PROMPTLY PROVIDED TO ENGINEER FOR REVIEW.
60. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
61. LOCATION OF WATER MAINS ARE APPROXIMATE AND BASED ON A COMPOSITE OF AS-BUILT PLANS AND SURVEYED FEATURES SUCH AS VALVES.
62. COORDINATE WITH APPROPRIATE UTILITY COMPANY FOR SUPPORT OF UTILITY POLES AS NECESSARY.
63. TEST PITS SHALL BE COMPLETED PRIOR TO ORDERING STRUCTURES TO DETECT EXACT ELEVATION/LOCATION OF EXISTING UTILITIES. TEST PIT INFORMATION SHALL BE PROVIDED TO THE ENGINEER TO REVIEW PRIOR TO ORDERING STRUCTURES FOR THEIR REVIEW. TEST PITS SHALL INCLUDE ALL EXCAVATION, BACKFILL AND TEMPORARY PAVEMENT IN ROAD SECTIONS.
64. ANY DAMAGE CAUSED TO THE EXISTING UTILITIES BY THE CONTRACTORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO SEPARATE PAYMENT SHALL BE MADE.
65. SEDIMENT OUTLET HOODS SHALL BE INSTALLED ON ALL CATCH BASIN OUTLET PIPES 18 INCHES AND SMALLER. THE COSTS FOR SEDIMENT OUTLET HOODS SHALL BE INCIDENTAL TO THE RESPECTIVE CATCH BASIN.
66. ALL CATCH BASINS SHALL HAVE 2 FOOT SUMPS.
67. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT, BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF ITEM 627.76.
68. PAVED ENTRANCES SHALL BE CONSTRUCTED WITH 3-INCH HOT MIX ASPHALT 9.5MM AND 15-INCH AGGREGATE SUBBASE COURSE. GRAVEL IN RECONSTRUCTED AREAS OR WHERE DRIVEWAY CULVERTS ARE REPLACED, OTHERWISE MATCH IN OVERLAY OR RECLAIM AREAS.

GRADING NOTES:

1. ADD 4-INCHES OF LOAM, SEED AND MULCH TO DISTURBED AREAS UNLESS OTHERWISE NOTED. PROVIDE EROSION CONTROL MESH ON ALL SLOPES 6:1 OR STEEPER AND ALONG DITCH CHANNELS.
2. GRADE SURFACES TO DRAIN AWAY FROM BUILDING. PUDDLING OF WATER IN PAVED OR UNPAVED AREAS WILL NOT BE ACCEPTABLE, EXCEPT FOR AREAS DESIGNATED AS PONDS.
3. MAINTAIN TEMPORARY EROSION CONTROL MEASURES FOR THE FULL DURATION OF CONSTRUCTION. INSPECT WEEKLY AND AFTER EACH STORM AND REPAIR AS NEEDED. REMOVE SEDIMENTS FROM THE SITE. PLACE IN AREA OF LOW EROSION POTENTIAL AND STABILIZE WITH SEED AND MULCH.

DIG SAFE NOTES:

PRIOR TO EXCAVATION, VERIFY THE UNDERGROUND UTILITIES, PIPES, STRUCTURES AND FACILITIES. PROVIDE THE FOLLOWING MINIMUM MEASURES:

1. PRE-MARK THE BOUNDARIES OF YOUR PLANNED EXCAVATION WITH WHITE PAINT, FLAGS OR STAKES, SO UTILITY CREWS KNOW WHERE TO MARK THEIR LINES.
2. CALL DIG SAFE AT 811 AT LEAST THREE BUSINESS DAYS – BUT NO MORE THAN 30 CALENDAR DAYS – BEFORE STARTING WORK. DO NOT ASSUME SOMEONE ELSE WILL MAKE THE CALL.
3. IF BLASTING, NOTIFY DIG SAFE AT LEAST ONE BUSINESS DAY IN ADVANCE.
4. WAIT THREE BUSINESS DAYS FOR LINES TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS OR STAKES. NOTE THE COLOR OF THE MARKS AND THE TYPE OF UTILITIES THEY INDICATE. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
5. CONTACT THE LANDOWNER AND OTHER "NON-MEMBER" UTILITIES (WATER, SEWER, GAS, ETC.) FOR THEM TO MARK THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
6. RE-NOTIFY DIG SAFE AND THE NON-MEMBER UTILITIES IF THE DIGGING, DRILLING OR BLASTING DOES NOT OCCUR WITHIN 30 CALENDAR DAYS OF INITIAL NOTIFICATION, OR IF THE MARKS ARE LOST DUE TO WEATHER CONDITIONS, SITE WORK ACTIVITY OR ANY OTHER REASON.
7. HAND DIG WITHIN 18 INCHES IN ANY DIRECTION OF ANY UNDERGROUND LINE UNTIL THE LINE IS EXPOSED. MECHANICAL METHODS MAY BE USED FOR INITIAL SITE PENETRATION, SUCH AS REMOVAL OF PAVEMENT OR ROCK.
8. DIG SAFE REQUIREMENTS ARE IN ADDITION TO TOWN, CITY AND/OR STATE DOT STREET OPENING PERMIT REQUIREMENTS.
9. FOR COMPLETE DIG SAFE REQUIREMENTS, CALL THE PUBLIC UTILITIES COMMISSION (PUC) OR VISIT THEIR WEBSITE.
10. IF YOU DAMAGE, DISLOCATE OR DISTURB ANY UNDERGROUND UTILITY LINE, IMMEDIATELY NOTIFY THE AFFECTED UTILITY. IF DAMAGE CREATES SAFETY CONCERNS, CALL THE FIRE DEPARTMENT AND TAKE IMMEDIATE STEPS TO SAFEGUARD HEALTH AND PROPERTY.
11. ANY TIME AN UNDERGROUND LINE IS DAMAGED OR DISTURBED OR IF LINES ARE IMPROPERLY MARKED, YOU MUST FILE AN INCIDENT REPORT WITH THE PUC FOR AN INCIDENT REPORT FORM VISIT WWW.STATE.ME.US/MPUC OR CALL THE PUC AT 1-800-452-4699.

SURVEYOR'S NOTES

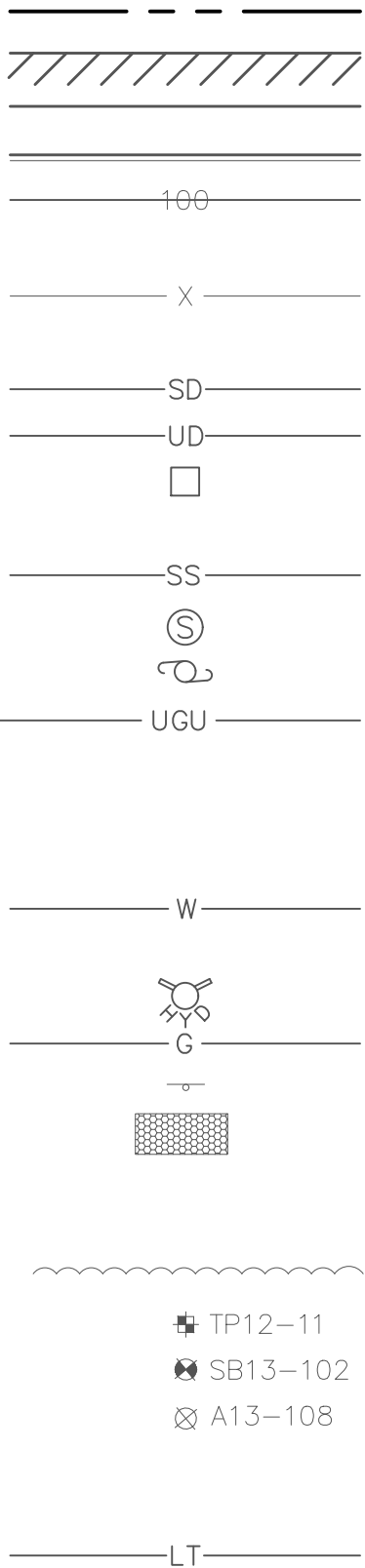
1. THIS SURVEY PLAN IS COPYRIGHT PROTECTED. THIS PLAN IS THE PROPERTY OF BOUNDARY POINTS, AND SHALL NOT BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF AN AUTHORIZED AGENT OF BOUNDARY POINTS. ALL RIGHTS RESERVED.
2. THIS SURVEY PLAN IS ONLY VALID IF AUTHENTIC EMBOSSED SEAL AND SIGNATURE OF CERTIFYING PROFESSIONAL APPEAR ON THE FACE OF THIS SURVEY PLAN.
3. REFERENCE IS MADE TO THE CONTRACTUAL AGREEMENT BETWEEN THE PROFESSIONAL LAND SURVEYOR AND THE CLIENT.
4. THIS SURVEY PLAN IS SUBJECT TO POSSIBLE REVISION UPON RECEIPT OF A CERTIFIED TITLE OPINION.
5. ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF I CERTIFY EXCLUSIVELY TO THE CLIENT THAT THIS SURVEY PLAN, MADE TO THE NORMAL STANDARD OF CARE, SUBSTANTIALLY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR LAND SURVEYOR STANDARDS.
6. NO CERTIFICATION IS MADE TO THE EXISTENCE OR NONEXISTENCE OF HAZARDOUS SUBSTANCES, ENVIRONMENTALLY SENSITIVE AREAS, UNDERGROUND UTILITIES, UNDERGROUND STRUCTURES, ZONING REGULATIONS OR REAL ESTATE TITLE.
7. DIG SAFE MUST BE CONTACTED AND CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DIMENSIONS OF ALL UTILITIES PRIOR TO EXCAVATION.
8. THE SOURCE OF BEARINGS FOR THIS LAND SURVEY WAS MAINE STATE PLANE GRID NORTH AMERICAN DATUM OF 1983 LOCATED IN THE WEST ZONE.
9. ELEVATIONS AND CONTOURS DEPICTED HEREON BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 BEING MEAN SEA LEVEL.
10. THE AREA SURVEYED IS AFFECTED BY THE 100-500 YEAR FLOODS PER F.E.M.A. PANEL 230162-15B DATED MAY 19, 1981.
11. TUTTLE ROAD HAD A REDEFINED WIDTH OF 49.5 FEET WIDE.

TYPICAL ABBREVIATIONS:

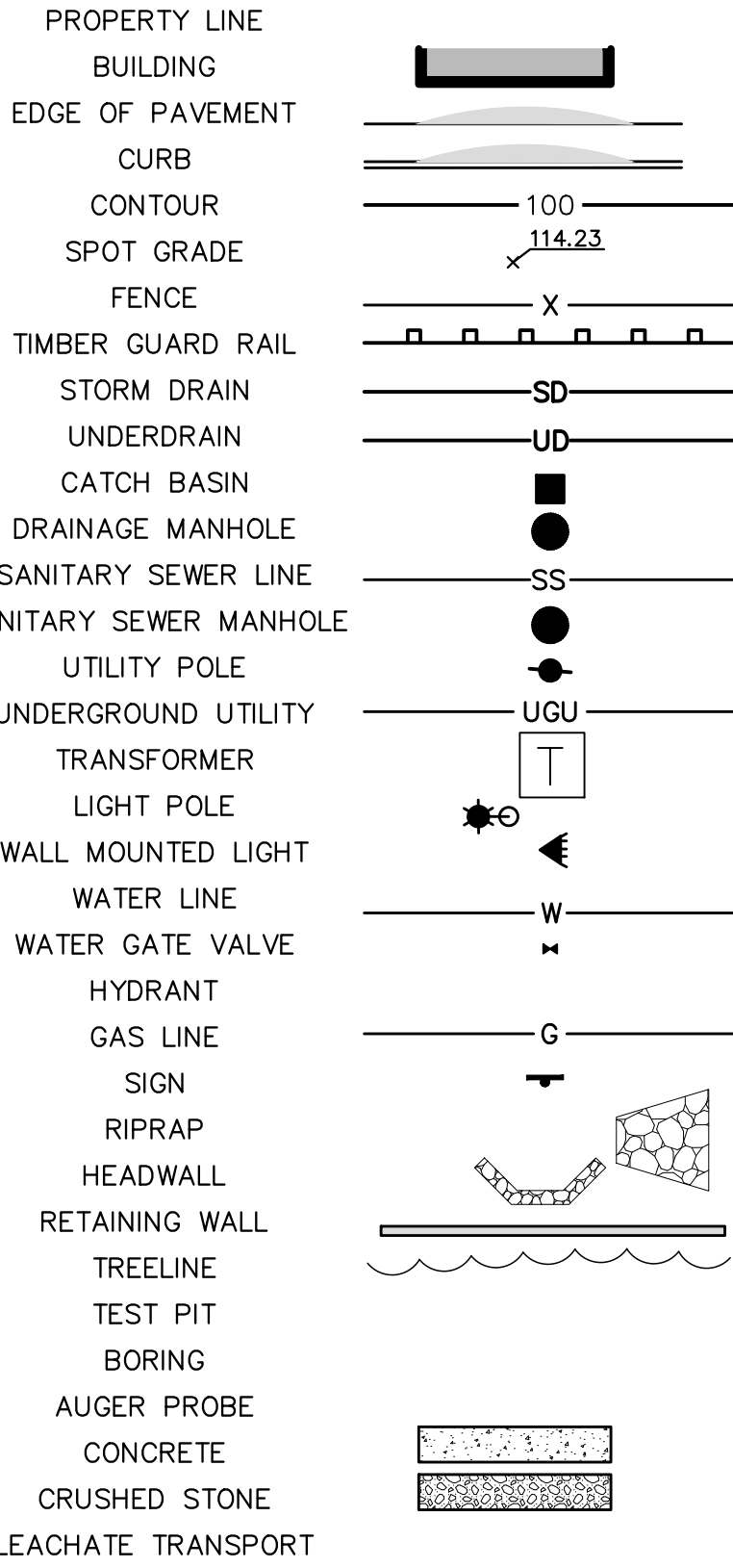
ACOMP	ASPHALT COATED CMP	EA	EACH	NITC	NOT IN THIS CONTRACT
ACP	ASBESTOS CEMENT PIPE	EQ	EXISTING GROUND OR GRADE	NTS	NOT TO SCALE
AC	ACRE	ELEC	ELECTRIC	N/F	NOW OR FORMERLY
AGG	AGGREGATE	EL	ELEVATION	NO OR #	NUMBER
ALUM	ALUMINUM	ELB	ELBOW	OC	ON CENTER
APPD	APPROVED	EOP	EDGE OF PAVEMENT	OD	OUTSIDE DIAMETER
APPROX	APPROXIMATE	EQUIP	EQUIPMENT	PC	POINT OF CURVE
ARMH	AIR RELEASE MANHOLE	EST	ESTIMATED	PD	PERIMETER DRAIN
ASB	ASBESTOS	EXC	EXCAVATE	PI	POINT OF INTERSECTION
ASP	ASPHALT	EXIST	EXISTING	PIV	POST INDICATOR VALVE
AUTO	AUTOMATIC	FI	FIELD INLET	PT	POINT OF TANGENT
AUX	AUXILIARY	FG	FINISH GRADE	PERF	PERFORATED
AVE	AVENUE	FBGRL	FIBERGLASS	PP	POWER POLE
AZ	AZIMUTH	FDN	FOUNDATION	PSI	POUNDS PER SQUARE INCH
		FLEX	FLEXIBLE	PVC	POLYVINYL CHLORIDE
BCOMP	BITUMINOUS COATED CMP	FLR	FLOOR	PWMT	PAVEMENT
BM	BENCH MARK	FPS	FEET PER SECOND	QTY	QUANTITY
BIT	BITUMINOUS	FT OR	FEET	RCP	REINFORCED CONCRETE PIPE
BLDG	BUILDING	FTG	FOOTING	RCF	RIGHT OF WAY
BOT	BOTTOM	GA	GALUOE	ROW	RADIUS
BRG	BEARING	GALV	GALVANIZED	REQD	REQUIRED
BV	BALL VALVE	GPD	GALLONS PER DAY	RT	RIGHT
CB	CATCH BASIN	GPM	GALLONS PER MINUTE	RTE	ROUTE
CEN	CENTER	HDPE	HIGH DENSITY POLYETHYLENE	S	SLOPE
CEN LIN	CEMENT LINED	HORIZ	HORIZONTAL	SCH	SCHEDULE
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SF	SQUARE FEET
CL	CLASS	HYD	HYDRANT	SHT	SHEET
CF	CUBIC FEET	ID	INSIDE DIAMETER	SMH	SANITARY MANHOLE
CFS	CUBIC FEET PER SECOND	IN	INCHES	ST	STREET
CI	CAST IRON	IN OR "	INVERT	STA	STATION
CLCC	CONCRETE	INV	INVERT ELEVATION	SY	SQUARE YARD
CONSTR	CONSTRUCTION	INV EL	INVERT ELEVATION	TAN	TANGENT
CONTR	CONTRACTOR	LB	POUND	TDH	TOTAL DYNAMIC HEAD
CTR	CENTER	LC	LEACHATE COLLECTION	TEMP	TEMPORARY
CU	COPPER	LD	LEAK DETECTION	TYP	TYPICAL
CY	CUBIC YARD	LOC	LOCATION	UD	UNDERDRAIN
D	DEGREE OF CURVE	LT	LEACHATE TRANSPORT	V	VOLTS
DBL	DOUBLE	MH	MANHOLE	VA TEE	VALVE ANCHORING TEE
DEG OR °	DEGREE	MJ	MECHANICAL JOINT	VERT	VERTICAL
DEPT	DEPARTMENT	MATL	MATERIAL	WG	WATER GATE
DIA OR Ø	DIAMETER	MAX	MAXIMUM	W/O	WITH
DIM	DIMENSION	MFR	MANUFACTURE	W/O	WITHOUT
DIST	DISTANCE	MIS	MISCELLANEOUS	YD	YARD
DN	DOWN	MISC	MISCELLANEOUS		
DRAIN	DRAIN	MON	MONUMENT		
DWG	DRAWING				

LEGEND

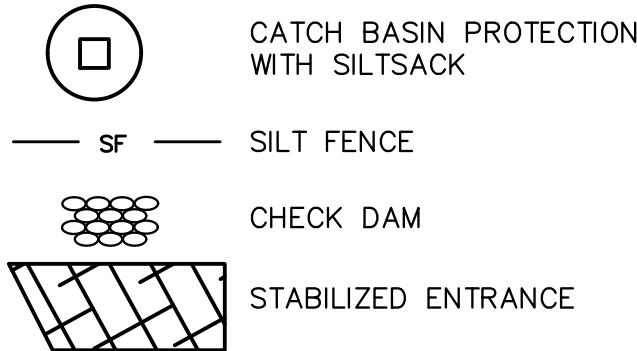
EXISTING



PROPOSED



EROSION CONTROL LEGEND



TOWN OF CUMBERLAND
TUTTLE ROAD SIDEWALK EXTENSION
AND RECONSTRUCTION PROJECT
CUMBERLAND, MAINE

GENERAL NOTES, LEGEND
AND ABBREVIATIONS



ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021

Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: DPD

DRAWN BY: SJM

DATE: 2/2016

CHECKED BY:

LMN: NONE

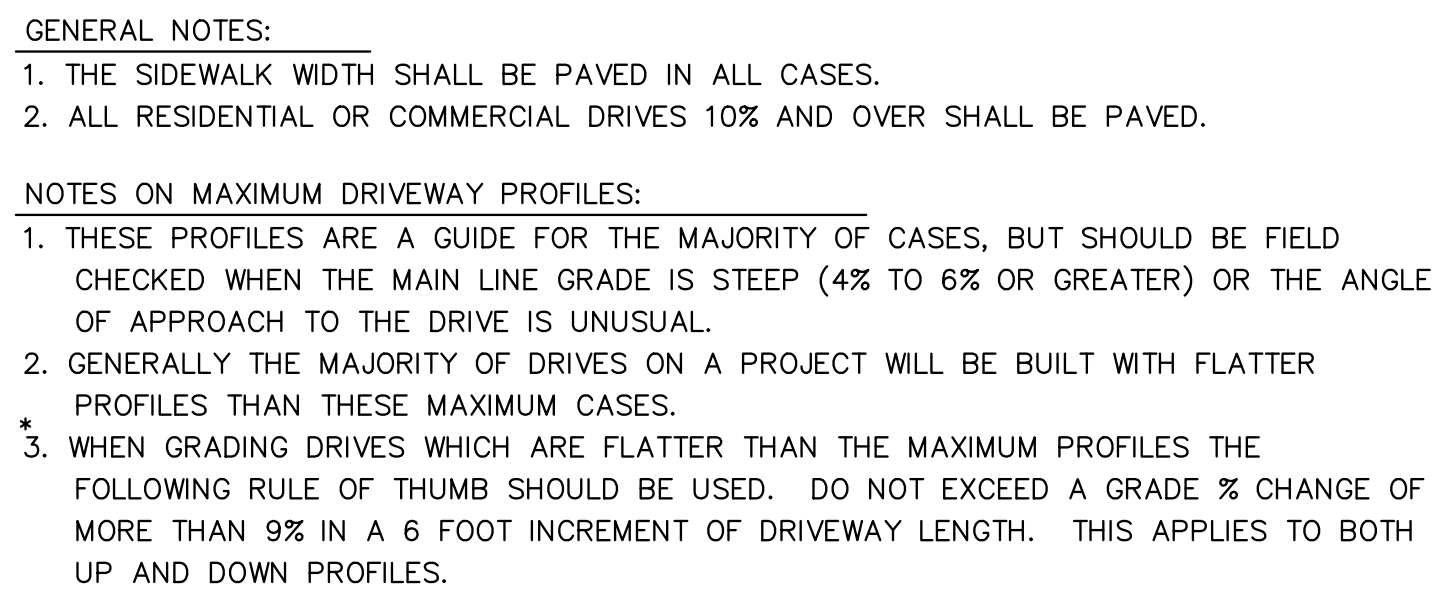
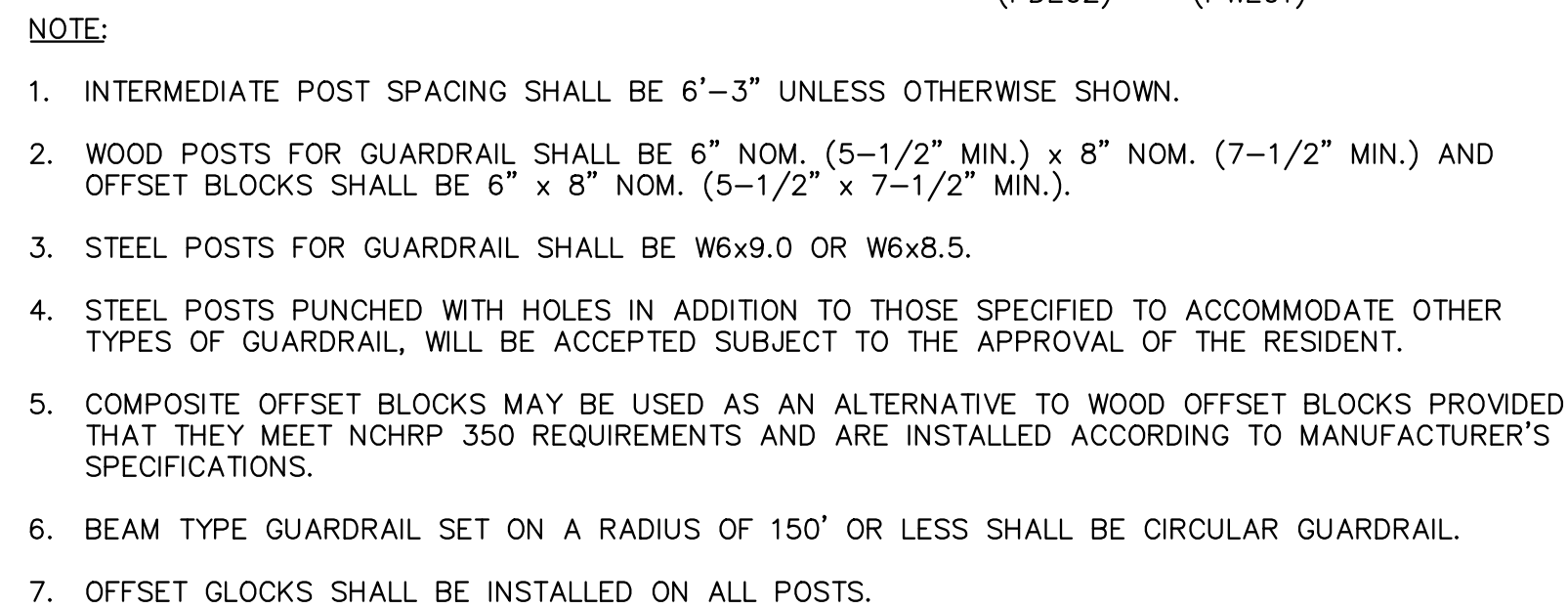
CTB: SME-STD

JOB NO. 15221.00 DWG FILE GEN-NOTES

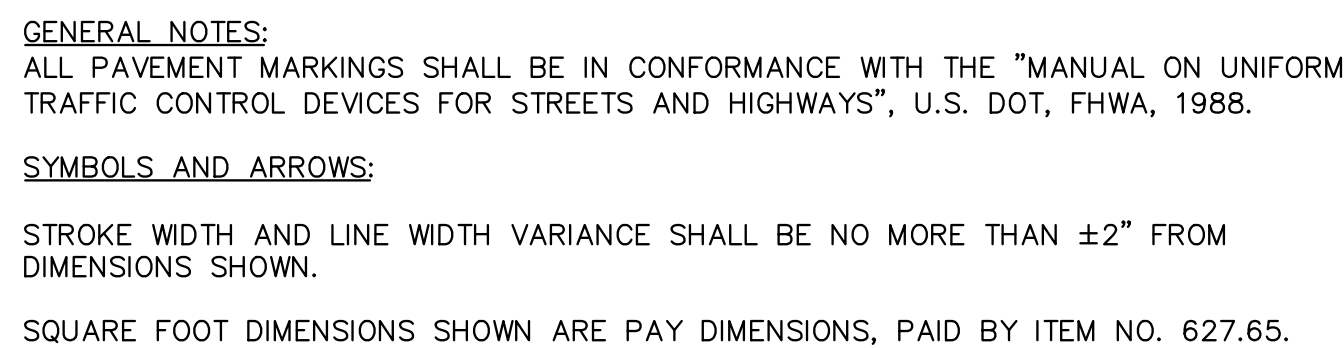
C-101

	JCM	1/2017	ISSUED FOR BID
REV.	BY	DATE	STATUS

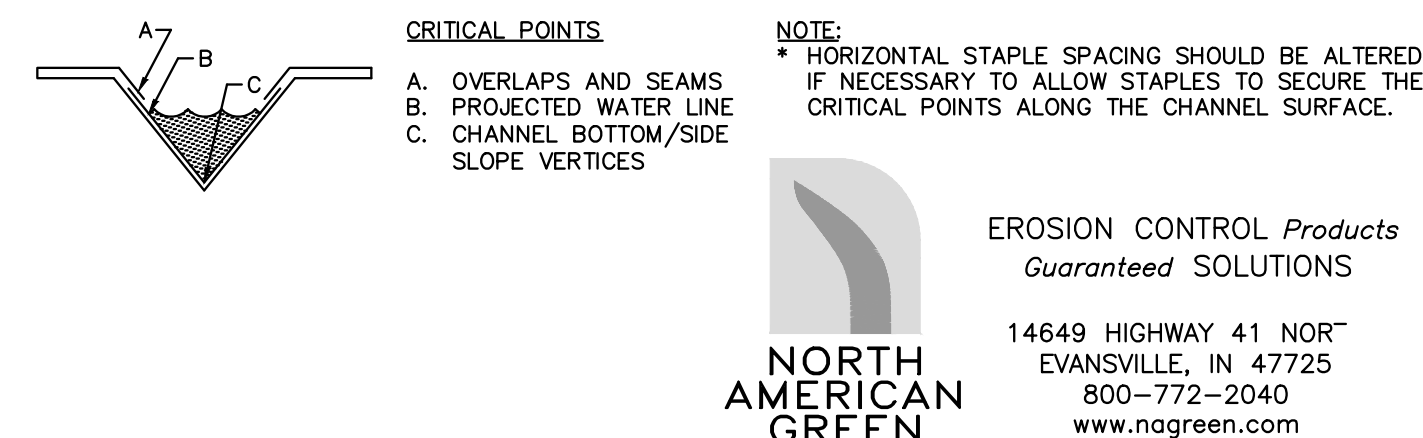
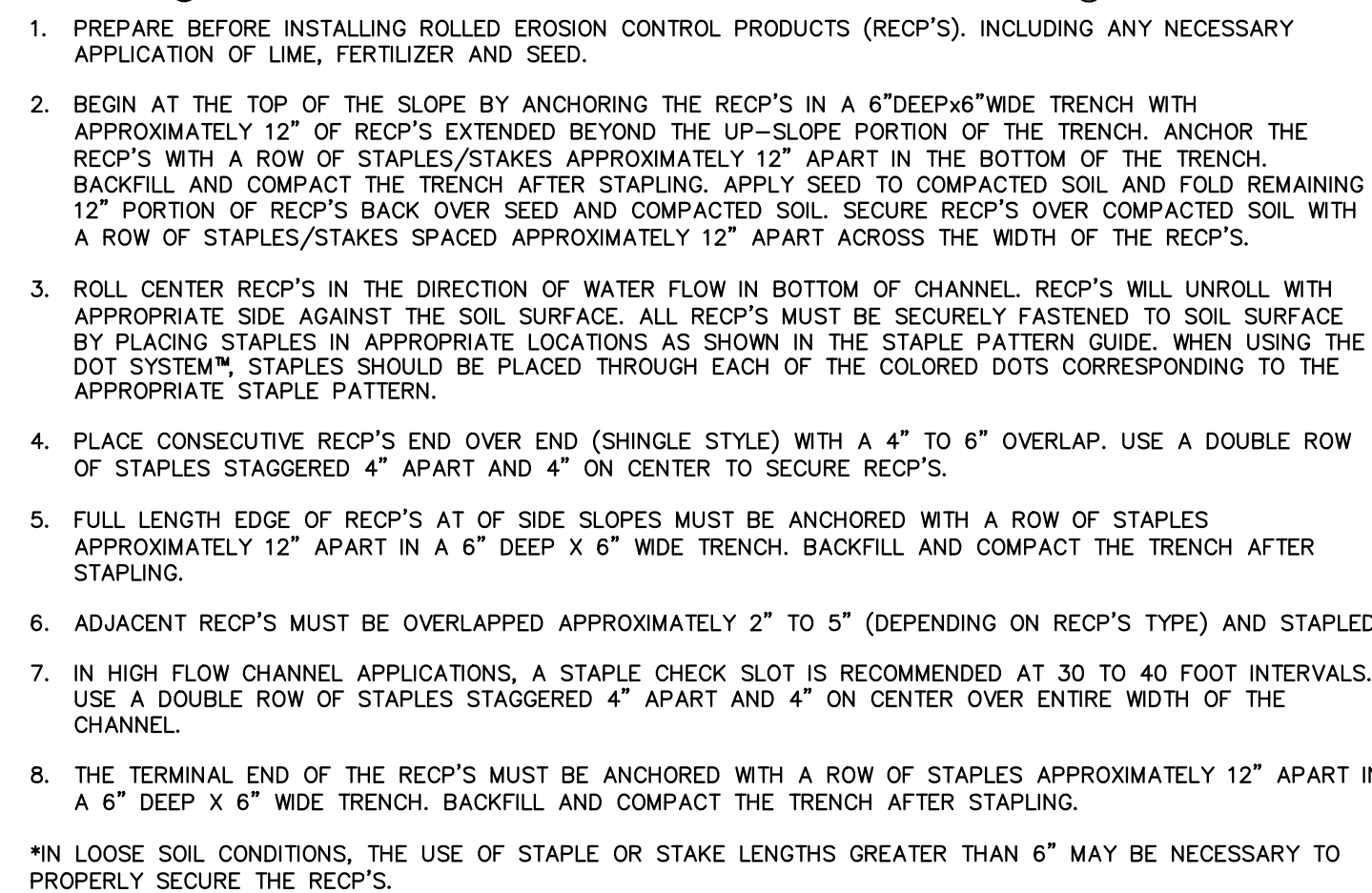




DRIVES ON SIDEWALK SECTIONS





PAVEMENT MARKING

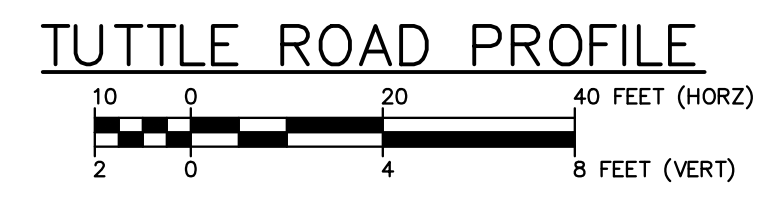
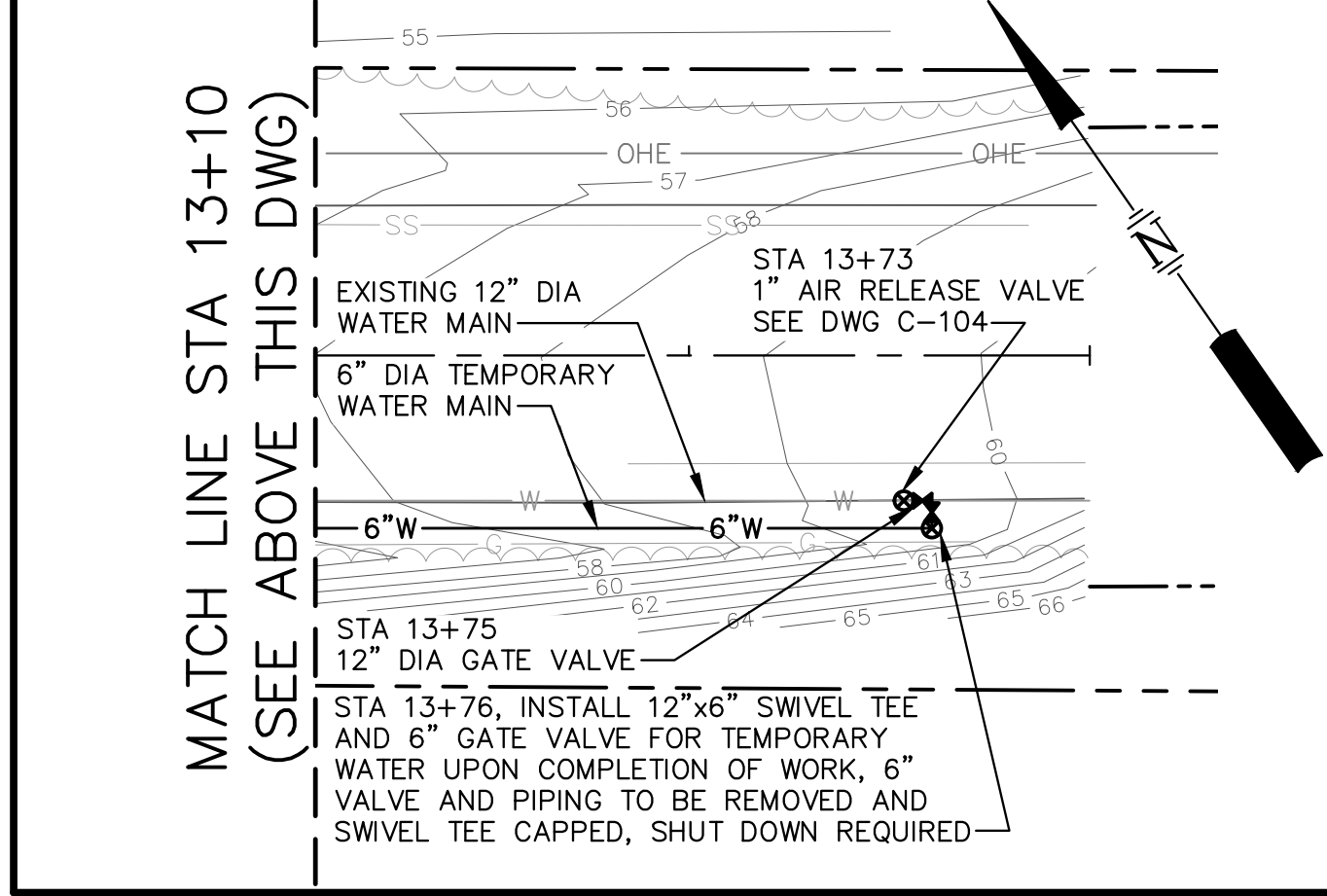
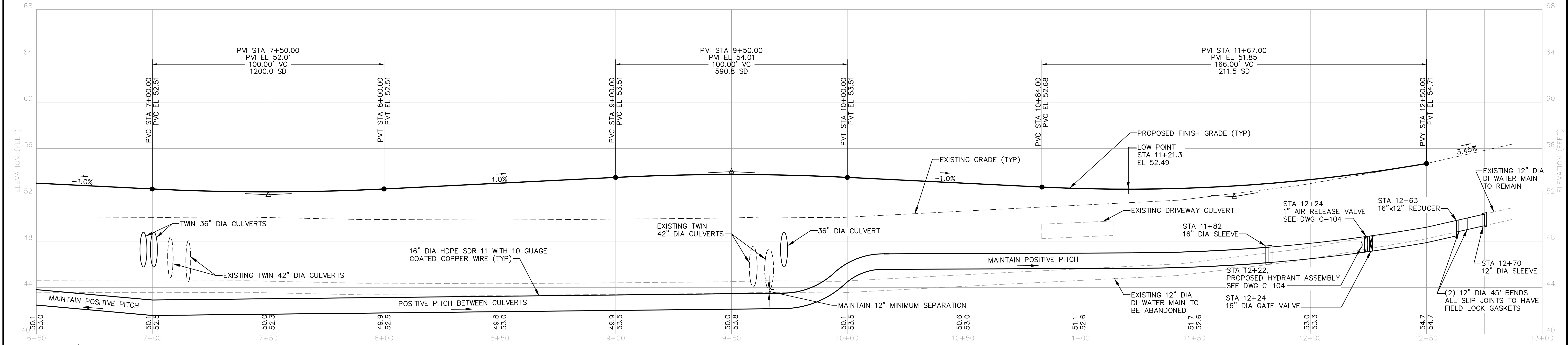
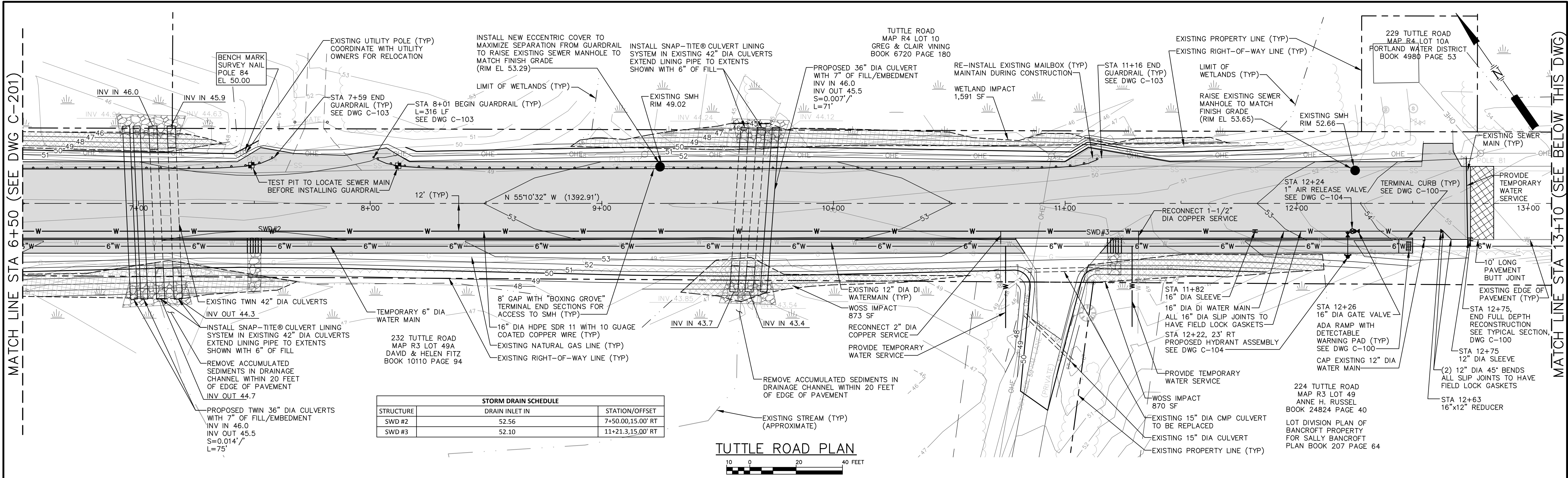


CHANNEL INSTALLATION

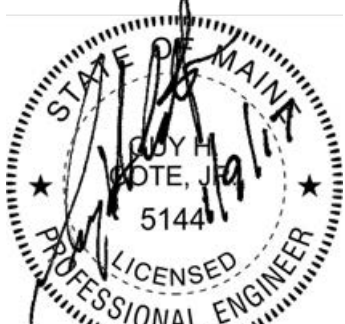


	JCM	1/2017	ISSUED FOR BID
REV.	BY	DATE	STATUS

	<p align="center">TOWN OF CUMBERLAND TUTTLE ROAD SIDEWALK EXTENSION AND RECONSTRUCTION PROJECT CUMBERLAND, MAINE</p>		
<p align="center">SECTIONS AND DETAILS</p>			
<p align="center">  Sevee & Maher Engineers, Inc. ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smeaine.com </p>		DESIGN BY: TJP DRAWN BY: SJM DATE: 4/1/2016 CHECKED BY: LMN: NONE CTR: SME-STD	
JOB NO. 15221.00 DWG FILE DETAILS		<p align="center">C-103</p>	



REV.	BY	DATE	STATUS
	JCM	1/2017	ISSUED FOR BID



TOWN OF CUMBERLAND
TUTTLE ROAD SIDEWALK EXTENSION
AND ROAD RECONSTRUCTION
CUMBERLAND, MAINE
TUTTLE ROAD RECONSTRUCTION
PLAN AND PROFILE

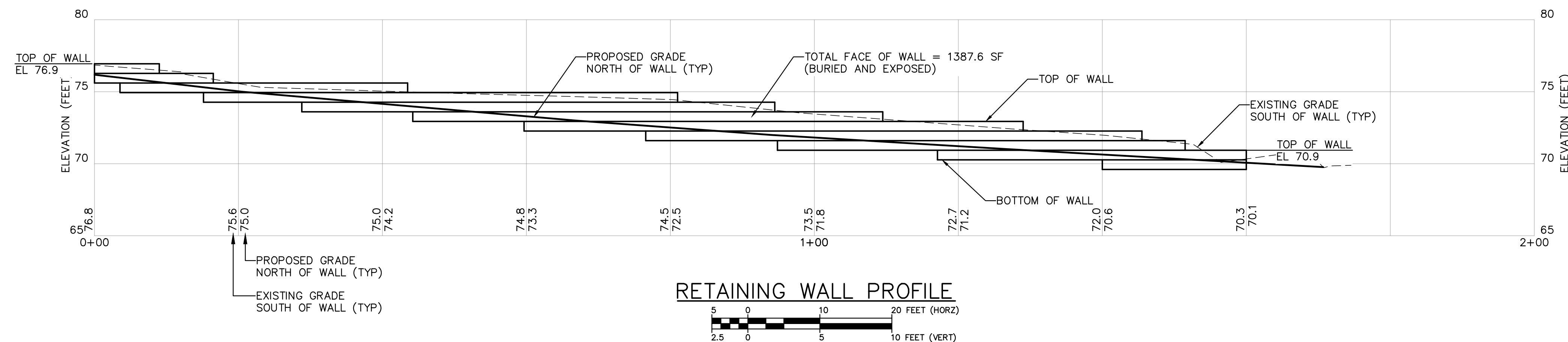
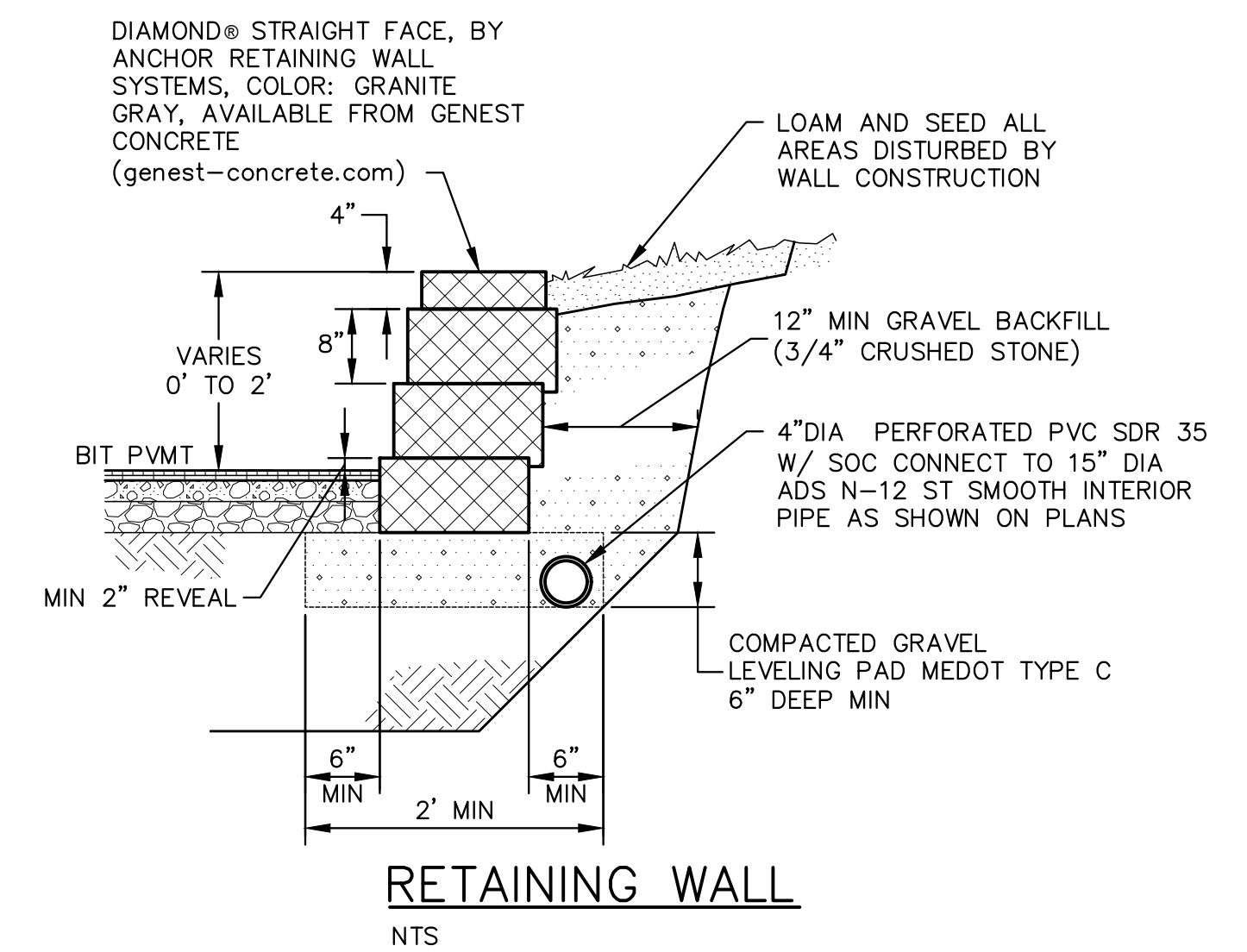
SME
Sevee & Maher Engineers, Inc.

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smengineers.com


JOB NO. 15221.00 DWG FILE BASE

DESIGN BY: DPD
DRAWN BY: SJM
DATE: 2/2016
CHECKED BY: LMN: PLANPROF
CTB: SME-STD

C-202



	JCM	1/2017	ISSUED FOR BID
REV.	BY	DATE	STATUS

	<p>TOWN OF CUMBERLAND TUTTLE ROAD SIDEWALK EXTENSION AND ROAD RECONSTRUCTION CUMBERLAND, MAINE</p>	
	<p>RETAINING WALL PLAN AND PROFILE</p>	
	<p>SME Sevee & Maher Engineers, Inc.</p> <p>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</p> <p>4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com</p>	<p>DESIGN BY: DPD DRAWN BY: SJM DATE: 2/2016 CHECKED BY: LMN: PLANPROF CTB: SME-STD</p>
	<p>JOB NO. 15221.00 DWG FILE BASE</p>	<p>C-203</p>