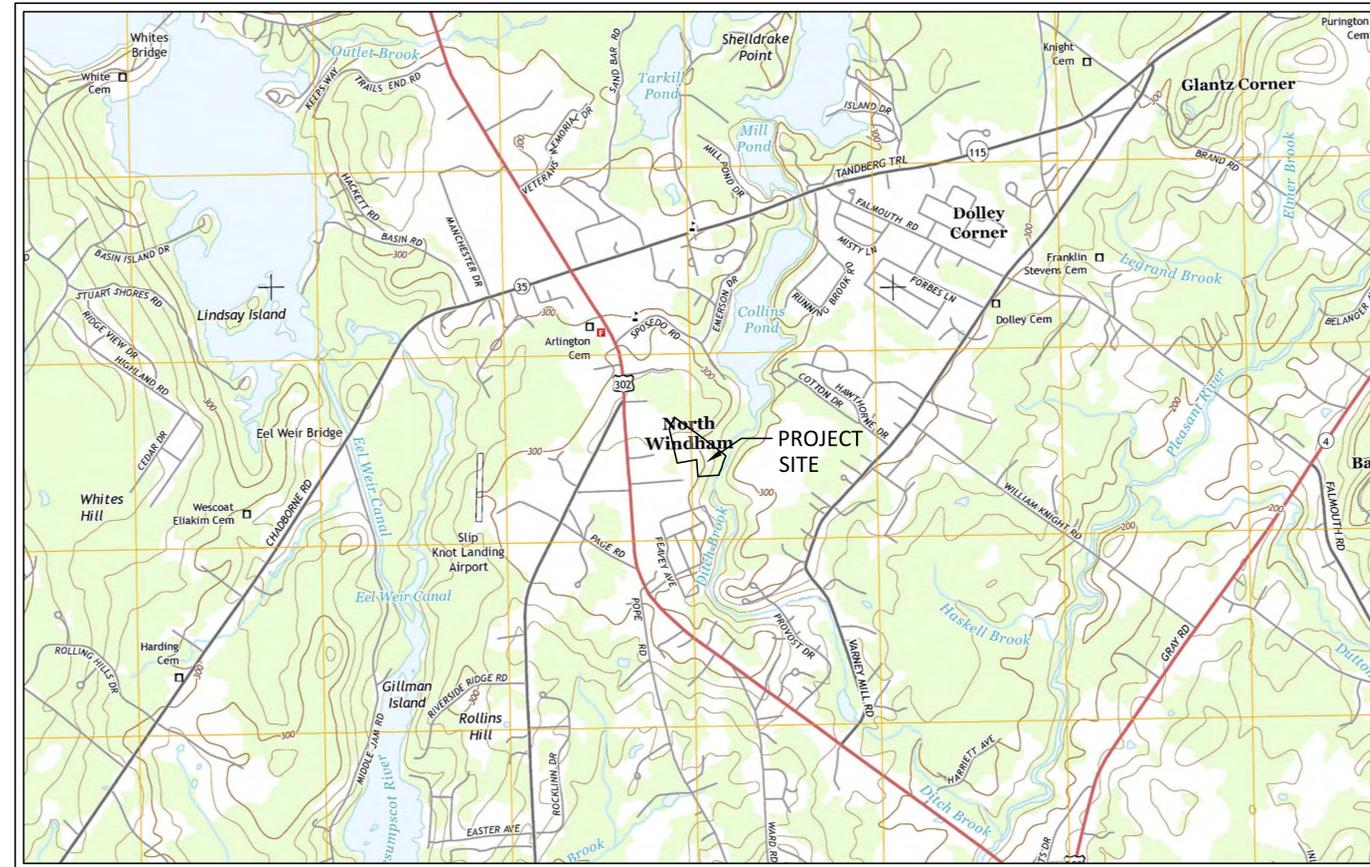


TURNING LEAF HEIGHTS

TURNING LEAF DRIVE & DRIVE-IN LANE
WINDHAM, MAINE

CONSULTANTS

CIVIL ENGINEER	DM ROMA CONSULTING ENGINEERS
LAND SURVEYOR	SURVEY, INC.
SOIL SCIENTIST	MARK HAMPTON ASSOCIATES, INC.
WETLAND SCIENTIST	MAINELY SOILS, LLC



PROJECT VICINITY MAP

ISSUED FOR PERMITTING - NOT FOR CONSTRUCTION
FEBRUARY 5, 2026

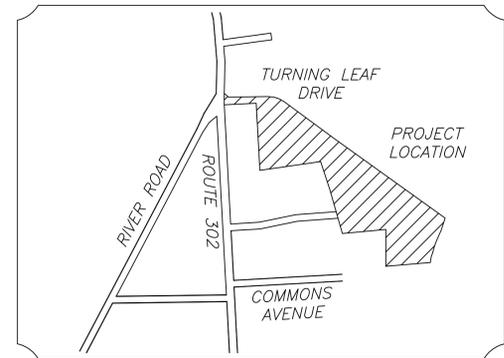
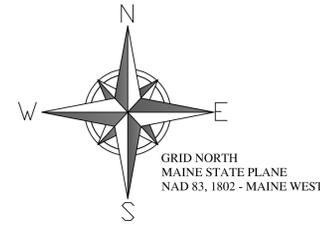
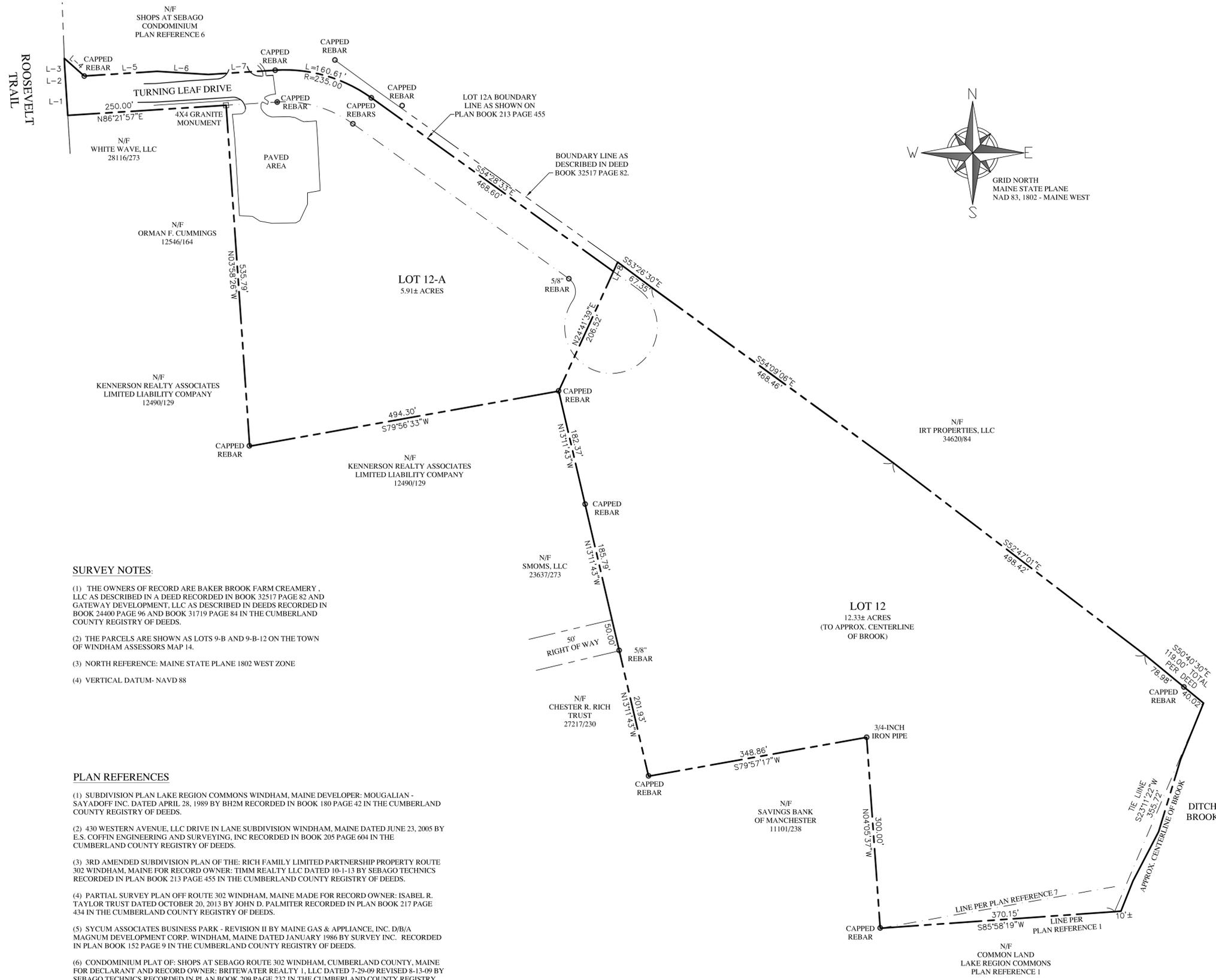
PREPARED BY:
DM ROMA
CONSULTING ENGINEERS
P.O. BOX 1116
WINDHAM, ME 04062
(207) 591-5055

APPLICANT:
GATEWAY DEVELOPMENT, LLC
4 COMMONS AVENUE - SUITE 12
WINDHAM, MAINE 04062

TURNING LEAF HEIGHTS
DRAWING SHEET INDEX

PAGE NO.	DESCRIPTION
1	TITLE SHEET
2	BOUNDARY SURVEY
3	EXISTING CONDITIONS PLAN
4	SUBDIVISION PLAN
5	OVERALL DEVELOPMENT PLAN
6	SITE & LANDSCAPING PLAN - LOT 1
7	SITE & LANDSCAPING PLAN - LOT 2 & 5
8	SITE & LANDSCAPING PLAN - LOT 3
9	SITE & LANDSCAPING PLAN - LOT 4
10	GRADING AND UTILITY PLAN
11	GRADING AND UTILITY PLAN
12	ROADWAY PLAN AND PROFILE - TURNING LEAF DRIVE
13	ROADWAY PLAN AND PROFILE - TURNING LEAF DRIVE
14	ROADWAY PLAN AND PROFILE - TURNING LEAF DRIVE
15	ROADWAY PLAN AND PROFILE - DRIVE-IN LANE
16	DETAILS
17	DETAILS
18	DETAILS
19	DETAILS

PERMITTING PLAN ATTACHMENTS
HIGH-INTENSITY SOIL SURVEY
WATERSHED MAP: EXISTING CONDITION
WATERSHED MAP: PROPOSED CONDITION



LOCATION MAP (NOT TO SCALE)

LINE TABLE

L-1	N03°38'03"W	60.00'
L-2	N03°38'34"W	19.00'
L-3	N02°10'50"W	10.64'
L-4	S48°38'03"E	41.91'
L-5	N86°21'57"E	115.08'
L-6	S86°30'38"E	80.64'
L-7	N86°21'57"E	105.62'
L-8	N24°43'18"E	16.04'

SURVEY NOTES:

- (1) THE OWNERS OF RECORD ARE BAKER BROOK FARM CREAMERY, LLC AS DESCRIBED IN A DEED RECORDED IN BOOK 32517 PAGE 82 AND GATEWAY DEVELOPMENT, LLC AS DESCRIBED IN DEEDS RECORDED IN BOOK 24400 PAGE 96 AND BOOK 31719 PAGE 84 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (2) THE PARCELS ARE SHOWN AS LOTS 9-B AND 9-B-12 ON THE TOWN OF WINDHAM ASSESSORS MAP 14.
- (3) NORTH REFERENCE: MAINE STATE PLANE 1802 WEST ZONE
- (4) VERTICAL DATUM- NAVD 88

PLAN REFERENCES

- (1) SUBDIVISION PLAN LAKE REGION COMMONS WINDHAM, MAINE DEVELOPER: MOUGALIAN - SAYADOFF INC. DATED APRIL 28, 1989 BY BH2M RECORDED IN BOOK 180 PAGE 42 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (2) 430 WESTERN AVENUE, LLC DRIVE IN LANE SUBDIVISION WINDHAM, MAINE DATED JUNE 23, 2005 BY E.S. COFFIN ENGINEERING AND SURVEYING, INC RECORDED IN BOOK 205 PAGE 604 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (3) 3RD AMENDED SUBDIVISION PLAN OF THE: RICH FAMILY LIMITED PARTNERSHIP PROPERTY ROUTE 302 WINDHAM, MAINE FOR RECORD OWNER: TIMM REALTY LLC DATED 10-1-13 BY SEBAGO TECHNICS RECORDED IN PLAN BOOK 213 PAGE 455 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (4) PARTIAL SURVEY PLAN OFF ROUTE 302 WINDHAM, MAINE MADE FOR RECORD OWNER: ISABEL R. TAYLOR TRUST DATED OCTOBER 20, 2013 BY JOHN D. PALMITER RECORDED IN PLAN BOOK 217 PAGE 434 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (5) SYCUM ASSOCIATES BUSINESS PARK - REVISION II BY MAINE GAS & APPLIANCE, INC. D/B/A MAGNUM DEVELOPMENT CORP. WINDHAM, MAINE DATED JANUARY 1986 BY SURVEY INC. RECORDED IN PLAN BOOK 152 PAGE 9 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (6) CONDOMINIUM PLAT OF: SHOPS AT SEBAGO ROUTE 302 WINDHAM, CUMBERLAND COUNTY, MAINE FOR DECLARANT AND RECORD OWNER: BRITWATER REALTY I, LLC DATED 7-29-09 REVISED 8-13-09 BY SEBAGO TECHNICS RECORDED IN PLAN BOOK 209 PAGE 232 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (7) PLAN OF PROPERTY IN WINDHAM, MAINE FOR MAGNUM DEVELOPMENT, CORP DATED JULY 1985 BY SURVEY INC.



CERTIFICATION:

I CERTIFY THAT THIS SURVEY CONFORMS TO THE STANDARDS OF THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS AND IS CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

WILLIAM C. SHIPPEN P.L.S. 2118

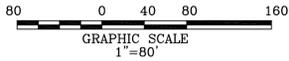
BOUNDARY & TOPOGRAPHIC SURVEY

TURNING LEAF DRIVE
WINDHAM, ME

FOR: **BAKER BROOK FARM CREAMERY, LLC**
GATEWAY DEVELOPMENT, LLC

TURNING LEAF DRIVE
WINDHAM, MAINE 04062
(OWNERS OF RECORD)

SURVEY BY: **SURVEY, INC.**
P.O. BOX 210
WINDHAM, ME 04062
(207) 892-2556
INFO@SURVEYINCORPORATED.COM



DWN: DRR
DATE: APRIL 2023
REVISED: JANUARY 2026 ADD LOT AREAS, CL OF BROOK, DEED REF.

CHK: WCS
JOB NO. 23-054

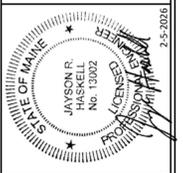


GENERAL NOTES:

1. THE OWNER OF RECORD OF THE PROPERTY IS GATEWAY DEVELOPMENT, LLC BY DEEDS RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS BOOK 24400 PAGE 96 AND BOOK 31719 PAGE 84.
2. TOTAL AREA OF THE PARCEL IS APPROXIMATELY 12.33 ACRES.
3. PARCEL TAX MAP REFERENCE: TOWN OF WINDHAM ASSESSORS MAP 14 LOT 9-B.
4. PLAN REFERENCES:
 - A) BOUNDARY AND TOPOGRAPHIC SURVEY, TURNING LEAF DRIVE FOR BAKER BROOK FARM CREAMERY LLC AND GATEWAY DEVELOPMENT LLC, PREPARED BY SURVEY, INC.
5. HORIZONTAL DATUM: MAINE STATE PLANE, WEST ZONE, NAD83, U.S. FEET.
6. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
7. BOUNDARY SHOWN HEREON IS BASED ON PLAN REFERENCE 4A.
8. TOPOGRAPHIC CONTOURS SHOWN HEREON ARE BASED ON A COMBINATION OF ON-THE-GROUND SURVEY AND 2-FOOT LIDAR OBTAINED FROM THE MAINE OFFICE OF GIS.
9. THE PROPERTY IS LOCATED IN THE COMMERCIAL-1 (C-1) ZONING DISTRICT WITH THE FOLLOWING DIMENSIONAL STANDARDS:

MIN LOT SIZE:	NONE
MIN STREET FRONTAGE:	100 FT
MIN FRONT YARD:	NONE
MIN SIDE/REAR YARD:	6 FT
MAX BUILDING HEIGHT:	NONE
10. A PORTION OF THE SITE IS LOCATED WITHIN A ZONE AE FLOOD HAZARD AREA AS INDICATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) PANEL 23005C0483F WITH AN EFFECTIVE DATE OF JUNE 20, 2024. NO DEVELOPMENT IS PROPOSED WITHIN THIS AREA.

NOT FOR CONSTRUCTION



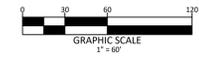
DM ROMA
CONSULTING ENGINEERS
P.O. BOX 1116
WINDHAM, ME 04062
(207) 591-5055

REV	DATE	BY	DESCRIPTION
A	9-25-24	JRH	ISSUED FOR MDP PERMIT REVIEW
B	7-7-25	JRH	ISSUED FOR TOWN REVIEW
C	11-17-25	JRH	REVISED PER TOWN REVIEW COMMENTS
D	2-5-26	DMR	REVISED PER TOWN REVIEW COMMENTS

EXISTING CONDITIONS PLAN
TURNING LEAF HEIGHTS
TURNING LEAF DRIVE & DRIVE IN LANE
WINDHAM, MAINE
FOR RECORD OWNER:
GATEWAY DEVELOPMENT, LLC
4 COMMONS AVENUE - SUITE 12
WINDHAM, ME 04062

20013
JOB NUMBER:
1" = 60'
SCALE:
2-5-2026
DATE:
SHEET 3 OF 19
EC-1

- LEGEND**
- PROPERTY LINE/R.O.W.
 - - - ABUTTER PROPERTY LINE
 - - - SETBACK
 - - - EASEMENT LINE
 - GRANITE MONUMENT
 - IRON PIN/DRILL HOLE
 - CENTERLINE
 - ▭ BUILDING
 - EDGE OF PAVEMENT/CURB
 - EDGE OF GRAVEL
 - SIGN
 - EDGE OF WETLANDS
 - EDGE OF WATER
 - - - CONTOUR LINE
 - WATER MAIN



LEGEND

EXISTING		PROPOSED		EXISTING		PROPOSED	
	PROPERTY LINE/R.O.W.		PROPOSED PROPERTY LINE		DRAINAGE MANHOLE		PROPOSED DRAINAGE MANHOLE
	ABUTTER PROPERTY LINE		PROPOSED ABUTTER PROPERTY LINE		CULVERT/STORM DRAIN		PROPOSED CULVERT/STORM DRAIN
	EASEMENT LINE		PROPOSED EASEMENT LINE		SEWER MANHOLE		PROPOSED SEWER MANHOLE
	CENTERLINE		PROPOSED CENTERLINE		SANITARY SEWER PIPE		PROPOSED SANITARY SEWER PIPE
	BUILDING		PROPOSED BUILDING		FORCE MAIN		PROPOSED FORCE MAIN
	EDGE OF PAVEMENT/CURB		PROPOSED EDGE OF PAVEMENT/CURB		WATER MAIN		PROPOSED WATER MAIN
	EDGE OF GRAVEL		PROPOSED EDGE OF GRAVEL		WATER VALVE		PROPOSED WATER VALVE
	SIGN		PROPOSED SIGN		HYDRANT		PROPOSED HYDRANT
	EDGE OF WETLANDS		PROPOSED EDGE OF WETLANDS		AIR RELEASE		PROPOSED AIR RELEASE
	CONTOUR LINE		PROPOSED CONTOUR LINE		UTILITY POLE		PROPOSED UTILITY POLE
	RETAINING WALL		PROPOSED RETAINING WALL		UNDERGROUND UTILITIES		PROPOSED UNDERGROUND UTILITIES
	TREELINE		PROPOSED TREELINE		TRANSFORMER PAD		PROPOSED TRANSFORMER PAD
	CATCHBASIN		PROPOSED CATCHBASIN		RIPRAP		PROPOSED RIPRAP
					SILT FENCE		PROPOSED SILTY FENCE

STORM DRAIN STRUCTURE TABLE

STRUCTURE	RIM	INV. IN	INV. OUT
CB-1	324.90	321.15 (SD-1)	
CB-2	324.90	320.95 (SD-1)	320.50 (SD-2)
CB-3	324.87	319.20 (SD-2)	319.10 (SD-3)
CB-4	319.57	314.17 (SD-25) 313.75 (SD-6)	313.50 (SD-4)
CB-5	314.20	307.00 (SD-4)	306.00 (SD-5)
CB-6	320.60	316.35 (SD-3)	316.25 (SD-6)
CB-7	317.42		313.20 (SD-7)
CB-8	317.42	313.00 (SD-7)	312.90 (SD-8)
CB-9	309.20	304.40 (SD-8) 304.15 (SD-18)	304.05 (SD-9)
CB-10	310.35	303.90 (SD-9)	303.80 (SD-10)
CB-11	309.83	303.25 (SD-10)	303.15 (SD-11)
CB-12	305.78	301.10 (SD-11) 301.10 (SD-13) 301.35 (SD-23)	301.00 (SD-12)
CB-13	305.78	301.35 (SD-14)	301.25 (SD-13)
CB-14	307.25	302.00 (SD-16) 302.00 (SD-15)	301.75 (SD-14)
CB-15	304.79	302.70 (SD-29)	302.60 (SD-15)
CB-16	310.00	305.35 (SD-17)	305.25 (SD-16)
CB-17	310.00		305.75 (SD-17)
CB-18	308.83	304.62 (SD-20) 304.62 (SD-19)	304.52 (SD-18)
CB-19	308.83		304.82 (SD-19)
CB-20	309.96	305.75 (SD-21)	305.65 (SD-20)
CB-21	311.45	307.55 (SD-22)	307.45 (SD-21)
CB-22	311.45		307.75 (SD-22)
CB-23	307.03		302.75 (SD-23)
CB-24	319.90	315.00 (SD-24)	314.90 (SD-25)
CB-25	324.80	320.95 (SD-26)	320.85 (SD-27)
DMH-1	309.00	301.90 (SD-36)	301.80 (SD-37)
FI-1	319.90		315.90 (SD-24)
FI-2	308.40		305.10 (SD-28)
FI-3	307.20		303.50 (SD-29)
OCS-1	298.00	293.00 (SD-32)	292.90 (SD-30)
OCS-2	298.00	292.70 (SD-30)	292.70 (SD-31)

STORM DRAIN PIPE TABLE

NAME	SIZE	LENGTH	SLOPE
SD-1	15"	22'	1.11%
SD-2	15"	211'	0.63%
SD-3	15"	146'	1.94%
SD-4	15"	145'	4.61%
SD-5	18"	69'	10.38%
SD-6	15"	42'	6.56%
SD-7	15"	22'	1.11%
SD-8	15"	173'	5.02%
SD-9	18"	31'	0.56%
SD-10	18"	109'	0.52%
SD-11	24"	179'	1.18%
SD-12	30"	42'	5.03%
SD-13	18"	22'	0.86%
SD-14	18"	69'	0.62%
SD-15	15"	82'	0.77%
SD-16	15"	177'	1.88%
SD-17	15"	82'	0.51%
SD-18	18"	68'	0.58%
SD-19	15"	22'	1.11%
SD-20	15"	121'	0.88%
SD-21	15"	149'	1.18%
SD-22	15"	22'	1.11%
SD-23	15"	85'	1.75%
SD-24	10"	73'	1.28%
SD-25	10"	61'	1.28%
SD-26	15"	35'	0.90%
SD-27	15"	30'	3.58%
SD-28	10"	181'	0.84%
SD-29	10"	124'	0.66%
SD-30	12"	6'	4.64%
SD-31	15"	242'	1.12%
SD-32	6"	3'	0.00%
SD-33	15"	230'	4.78%
SD-34	6"	98'	1.78%
SD-35	6"	188'	0.93%
SD-36	10"	175'	0.98%
SD-37	10"	125'	1.47%



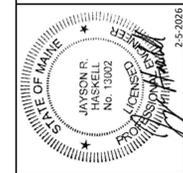
SEWER STRUCTURE TABLE

STRUCTURE	RIM	INV. IN	INV. OUT
PS-1	306.28	297.95 (S-9)	
PS-2	321.10	312.20 (SS-3) 314.00 (SS-1)	
SMH-1	322.01	315.35 (S-2)	315.25 (S-1)
SMH-2	324.64	316.40 (S-3)	316.30 (S-2)
SMH-3	325.75	316.90 (S-4)	316.80 (S-3)
SMH-4	327.44	318.30 (S-5)	318.20 (S-4)
SMH-5	325.13	319.65 (S-6)	319.55 (S-5)
SMH-6	324.65		320.80 (S-6)
SMH-7	314.14		308.40 (S-7)
SMH-9	306.55	298.50 (S-12) 298.50 (S-10)	298.40 (S-9)
SMH-10	315.37	306.35 (S-11)	306.25 (S-10)
SMH-11	309.37	300.05 (S-13)	299.95 (S-12)
SMH-12	309.48	301.10 (S-14)	301.00 (S-13)
SMH-13	309.23	303.55 (S-15)	303.45 (S-14)
SMH-14	310.00	304.35 (S-16)	304.45 (S-15)
SMH-15	312.88	307.25 (S-7)	307.15 (S-16)

SEWER PIPE TABLE

NAME	SIZE	LENGTH	SLOPE
S-1	8"	172'	0.53%
S-2	8"	188'	0.52%
S-3	8"	82'	0.51%
S-4	8"	258'	0.51%
S-5	8"	249'	0.51%
S-6	8"	230'	0.51%
S-7	8"	130'	0.91%
S-9	8"	24'	2.41%
S-10	8"	273'	2.88%
S-11	8"	7'	1.38%
S-12	8"	213'	0.69%
S-13	8"	187'	0.52%
S-14	8"	78'	3.16%
S-15	8"	89'	1.05%
S-16	8"	290'	0.98%
SS-1	6"	35'	6.90%
SS-3	6"	226'	2.02%

PERMITTING PLAN
NOT FOR
CONSTRUCTION



DM ROMA
CONSULTING ENGINEERS
P.O. BOX 1116
WINDHAM, ME 04092
(207) 591-5055

REV	DATE	BY	DESCRIPTION
A	9-25-24	JRH	ISSUED FOR MDP PERMIT REVIEW
B	7-7-25	JRH	ISSUED FOR TOWN REVIEW
C	11-17-25	JRH	REVISED PER TOWN REVIEW COMMENTS
D	2-5-26	DMR	REVISED PER TOWN REVIEW COMMENTS

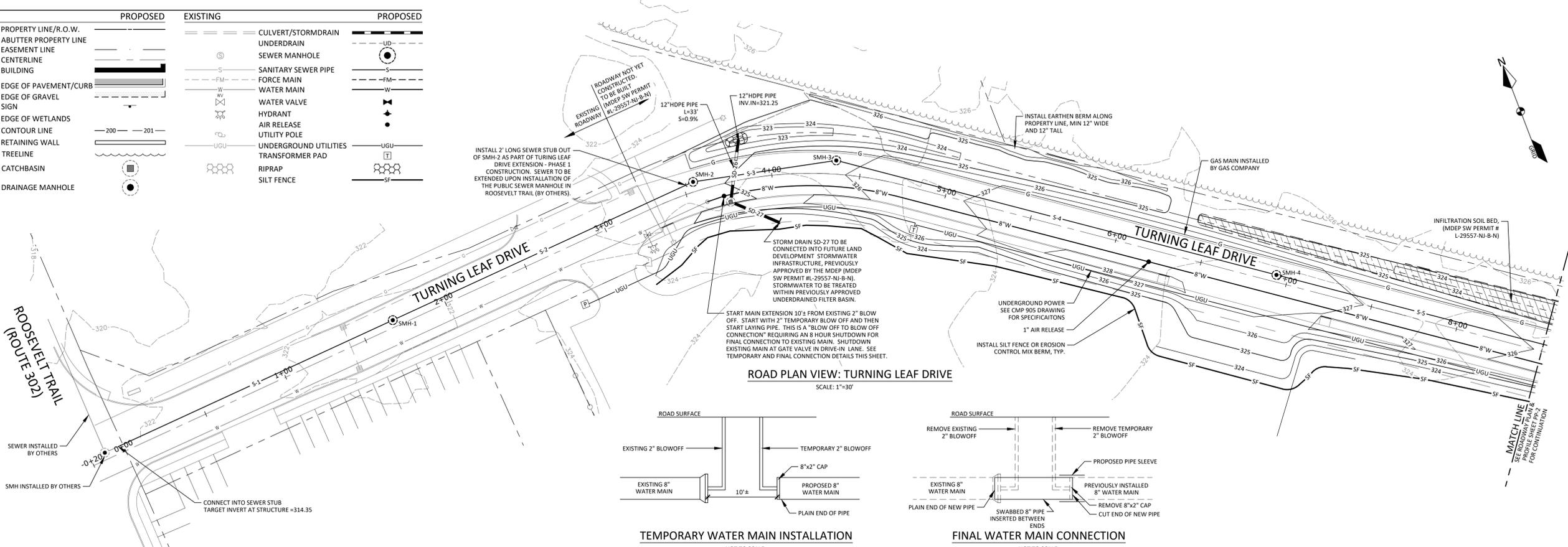
GRADING AND UTILITY PLAN
TURNING LEAF HEIGHTS
TURNING LEAF DRIVE AND DRIVE-IN LANE
WINDHAM, MAINE
FOR: GATEWAY DEVELOPMENT, LLC
4 COMANS AVENUE SUITE 12
WINDHAM, ME 04095

20013
JOB NUMBER:
1" = 30'
SCALE:
2-5-2026
DATE:
SHEET 11 OF 19
GU-2

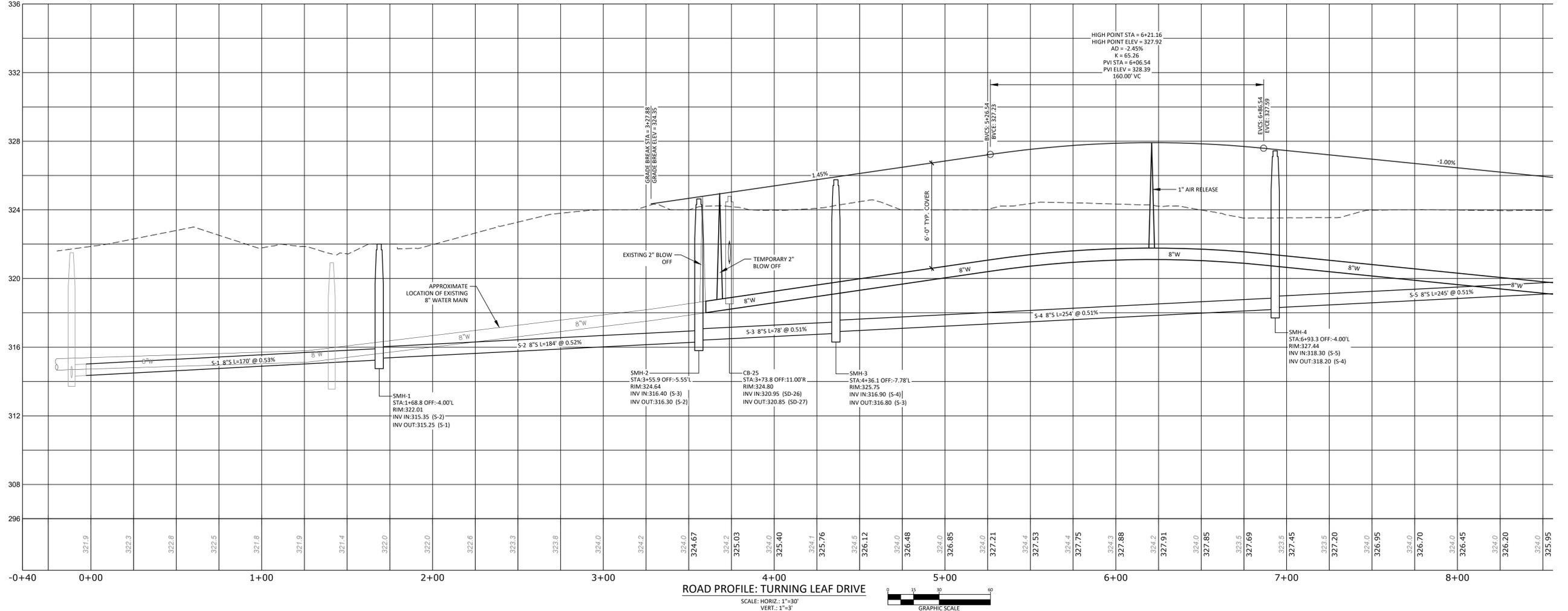
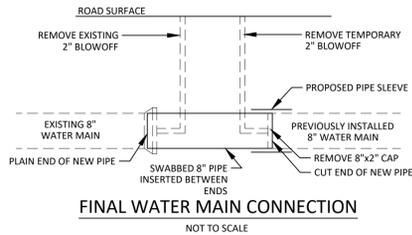
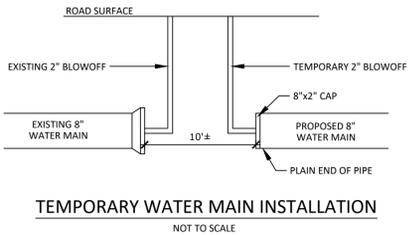
LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
PROPERTY LINE/R.O.W.	— — — — —	CULVERT/STORMDRAIN	— — — — —
ABUTTER PROPERTY LINE	— — — — —	UNDERDRAIN	— — — — —
EASEMENT LINE	— — — — —	SEWER MANHOLE	⊙
CENTERLINE	— — — — —	SANITARY SEWER PIPE	— — — — —
BUILDING	▭	FORCE MAIN	— — — — —
EDGE OF PAVEMENT/CURB	— — — — —	WATER MAIN	— — — — —
EDGE OF GRAVEL	— — — — —	WATER VALVE	⊕
EDGE OF WETLANDS	— — — — —	HYDRANT	⊕
RETAINING WALL	— — — — —	AIR RELEASE	⊕
TREELINE	— — — — —	UTILITY POLE	⊕
CATCHBASIN	⊕	UNDERGROUND UTILITIES	UGU
DRAINAGE MANHOLE	⊕	TRANSFORMER PAD	⊕
		RIPRAP	⊕
		SILT FENCE	SF

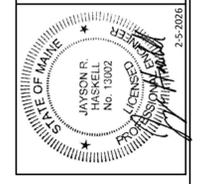
ROOSEVELT TRAIL (ROUTE 302)



ROAD PLAN VIEW: TURNING LEAF DRIVE
SCALE: 1"=30'



PERMITTING PLAN
NOT FOR
CONSTRUCTION



DM ROMA
CONSULTING ENGINEERS
P.O. BOX 1116
WINDHAM, ME 04092
(207) 591-5055

REV	DATE	BY	DESCRIPTION
A	9-25-24	JRH	ISSUED FOR MDEP PERMIT REVIEW
B	1-4-25	JRH	REVISED PER PWD REVIEW
C	1-22-25	JRH	REVISED PER MDEP REVIEW COMMENTS
D	6-17-25	JRH	REVISED PER MDEP REVIEW COMMENTS
E	7-7-25	JRH	ISSUED FOR TOWN REVIEW
F	11-17-25	JRH	REVISED PER TOWN REVIEW COMMENTS
G	2-5-26	DMR	REVISED PER TOWN REVIEW COMMENTS

ROADWAY PLAN & PROFILE: TURNING LEAF DRIVE
TURNING LEAF HEIGHTS
TURNING LEAF DRIVE, DRIVE IN LANE & COMMONS AVENUE
WINDHAM, MAINE
FOR RECORD OWNER:
GATEWAY DEVELOPMENT, LLC
4 COMMONS AVENUE, SUITE 12
WINDHAM, ME 04092

20013
JOB NUMBER:
1" = 30'
SCALE:
2-5-2026
DATE:
SHEET 12 OF 19
PP-1

EROSION AND SEDIMENTATION CONTROL NOTES:

EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS TO OCCUR DURING THE FOLLOWING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY.

IN ORDER TO EFFECTIVELY PREVENT AND CONTROL EROSION RELATED TO SOIL DISTURBANCE, THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) SHALL BE EMPLOYED:

1. POLLUTION PREVENTION

MINIMIZE DISTURBED AREAS AND PROTECT NATURAL DOWNGRADIENT BUFFER AREAS TO THE EXTENT PRACTICABLE. CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION. MINIMIZE THE DISTURBANCE OF STEEP SLOPES. CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND VOLUME, TO MINIMIZE EROSION AT OUTLETS. THE DISCHARGE MAY NOT RESULT IN EROSION OF ANY OTHER DRAINAGE CHANNELS, SWALES, STREAM CHANNELS OR STREAM BANKS, UPLAND, OR COASTAL OR FRESHWATER WETLANDS OF THE PROJECT SITE.

WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. IF DISTURBANCE ACTIVITIES TAKE PLACE BETWEEN 30 FEET AND 50 FEET OF ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED. IF DISTURBANCE ACTIVITIES TAKE PLACE LESS THAN 30 FEET FROM ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED AND DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS.

2. TEMPORARY SOIL STABILIZATION BMPs

TEMPORARY MULCHING SHALL BE APPLIED IMMEDIATELY TO ANY AREAS THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED. ANY DISTURBED SOIL WITHIN 75' OF A STREAM, WATER BODY OR WETLAND MUST RECEIVE TEMPORARY MULCH WITHIN 48 HOURS FOLLOWING DISTURBANCE AND BEFORE ANY STORM EVENT. OTHER AREAS SHALL RECEIVE TEMPORARY MULCH WITHIN 7 DAYS OF DISTURBANCE. AREAS WHICH CANNOT BE SEEDED DURING THE GROWING SEASON SHALL BE MULCHED FOR OVER-WINTER PROTECTION. THE FOLLOWING ARE ACCEPTABLE TEMPORARY MULCHING METHODS:

HAY OR STRAW MULCHES NEED TO BE AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS. APPLICATION RATE MUST BE 2 BALES (70-90 POUNDS) PER 1000 SQ FT OR 1.5 TO 2 TONS (90-100 BALES) PER ACRE TO COVER 75-90% OF THE GROUND SURFACE. HAY OR STRAW CAN BE DRIVEN INTO THE GROUND WITH TRACKED EQUIPMENT IF SLOPES ARE LESS THAN 3%, OR CAN BE ANCHORED WITH JUTE, WOOD FIBER OR PLASTIC NETTING ON STEEPER SLOPES.

EROSION CONTROL MIX MUST CONSIST PRIMARILY OF ORGANIC MATERIAL AND WILL INCLUDE ANY OF THE FOLLOWING: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK OR OTHER ACCEPTABLE PRODUCTS BASED ON A SIMILAR RAW SOURCE. WOOD OR BARK CHIPS, GROUND CONSTRUCTION DEBRIS, REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE. EROSION CONTROL MIX CAN BE USED AS A STAND-ALONE REINFORCEMENT ON SLOPES OF 2 HORIZONTAL TO 1 VERTICAL OR LESS AND DRAINING IN SHEET FLOW. IT CAN BE PLACED WITH A HYDRAULIC BUCKET, WITH A PNEUMATIC BLOWER OR BY HAND, AND MUST PROVIDE 100% SOIL COVERAGE.

EROSION CONTROL MIX SHALL MEET THE FOLLOWING SPECIFICATIONS:
 -ORGANIC MATTER CONTENT SHALL BE BETWEEN 80-100%, DRY WEIGHT BASIS.
 -PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6 IN. SCREEN AND BETWEEN 70-85% PASSING 0.75 IN. SCREEN
 -ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED
 -LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX

WHEN USED AS MULCH, THE THICKNESS OF THE ERISION CONTROL MIX IS BASED UPON THE FOLLOWING:

LENGTH OF SLOPE	3:1 SLOPE OR LESS	BETWEEN 2:1 AND 3:1 SLOPE
LESS THAN 20 FT	2.0 IN.	4.0 IN.
BETWEEN 20 - 60 FT	3.0 IN.	5.0 IN.
BETWEEN 60 - 100 FT	4.0 IN.	6.0 IN.

CHEMICAL MULCHES AND SOIL BINDERS MAY BE USED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL CONSULT WITH THE MANUFACTURER TO DETERMINE ADEQUATE APPLICATION RATES AND METHODS.

TEMPORARY MULCH SHALL BE INSPECTED FOLLOWING ANY SIGNIFICANT RAINFALL EVENT. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED. EROSION CONTROL MATS AND MULCH ANCHORING MUST BE INSPECTED AFTER RAINFALL EVENTS FOR DISLOCATION OR FAILURE, AND REPAIRED IMMEDIATELY. INSPECTIONS SHALL TAKE PLACE UNTIL 95% OF THE SOIL SURFACE IS COVERED WITH PERMANENT VEGETATION. WHERE MULCH IS USED WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE, AND REPAIR AS NEEDED.

TEMPORARY VEGETATION SHALL BE ESTABLISHED ON SOILS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 30 DAYS. IF TEMPORARY VEGETATION CANNOT BE ESTABLISHED PRIOR TO OCTOBER 15, TEMPORARY MULCH SHALL BE APPLIED THROUGH THE WINTER AND TEMPORARY VEGETATION SHALL BE PLANTED AT THE BEGINNING OF THE GROWING SEASON THE FOLLOWING YEAR. TO PREPARE THE SEEDED, THE CONTRACTOR SHALL APPLY FERTILIZER AT A RATE OF 600 POUNDS PER ACRE OF 10-10-10 (N-P205-K20) OR EQUIVALENT AND LIMESTONE AT A RATE OF 3 TONS PER ACRE, IF NECESSARY. LOOSEN SOIL TO A DEPTH OF 2 INCHES IN AREAS THAT HAVE BEEN COMPACTED BY CONSTRUCTION ACTIVITIES. GRASS SEED SHALL BE SELECTED BASED UPON THE TIME OF YEAR THE PLANTING WILL TAKE PLACE AS SUMMARIZED IN THE FOLLOWING TABLE:

SEED	LB. PER ACRE	RECOMMENDED SEEDING DATES
WINTER RYE	112	8/15 - 10/1
OATS	80	4/1 - 7/1 8/15 - 9/15
ANNUAL RYEGRASS	40	4/1 - 7/1

TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED TO MAINTAIN AT LEAST 95% VEGETATIVE COVER OF SOIL SURFACE. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES SHALL BE USED IN THE INTERIM SUCH AS TEMPORARY MULCH, FILTER BARRIERS, ETC.

3. SEDIMENT BARRIER BMPs

PRIOR TO CONSTRUCTION TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED AT THE DOWNGRADIENT EDGE OF ANY AREA TO BE DISTURBED AND ADJACENT TO ANY DRAINAGE CHANNELS WITHIN THE DISTURBED AREA. SEDIMENT BARRIERS INCLUDE ANY OF THE FOLLOWING:

FILTER BARRIER FENCE, ALSO CALLED SILT FENCE. SHALL BE INSTALLED WHERE SHOWN ON THE PLANS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL PROVIDE A MINIMUM OF 6 MONTHS USABLE CONSTRUCTION LIFE INCLUDING PROTECTION AGAINST ULTRA-VIOLET LIGHT. THE HEIGHT OF THE FENCE SHALL NOT EXCEED 36 INCHES INSTALLED AND MOST SPACING SHALL NOT EXCEED 6 FEET. JOINTS IN THE FENCE SHALL BE AVOIDED TO THE EXTENT POSSIBLE, AND IF NECESSARY SHALL BE SPLICED TOGETHER AT A SUPPORT POST WITH A MINIMUM 6 INCH OVERLAP. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP, AND THE BOTTOM 6-8 INCHES OF FABRIC SHALL BE "TOED-IN" TO THE TRENCH AND COMPACTED. THE TRENCH SHOULD BE UPHILL OF THE FABRIC PRIOR TO BURLAP.

EROSION CONTROL MIX BERMS ARE LINEAR BARRIERS COMPOSED OF EROSION CONTROL MIX AS SPECIFIED ABOVE. THE BERM MUST BE A MINIMUM OF 12 INCHES TALL AND 24 INCHES WIDE AT THE BASE IF UPHILL SLOPES ARE LESS THAN 5%. STEEPER SLOPES OR SLOPES GREATER THAN 20 FEET LONG MAY REQUIRE A LARGER WIDTH BERM. EROSION CONTROL MIX BERMS SHALL BE PROHIBITED AT THE BASE OF A LONG OR STEEP SLOPE (8% OR GREATER) WITHOUT THE ADDITIONAL SUPPORT OF A FILTER FENCE INSTALLED ON THE DOWNHILL SIDE OF THE BERM.

SEDIMENT BARRIERS SHOULD BE INSTALLED DOWNGRADIENT OF SOIL OR SEDIMENT STOCKPILES AND STORMWATER PREVENTED RUNNING ONTO THE STOCKPILE. SEDIMENT BARRIERS SHALL BE INSPECTED AFTER ANY SIGNIFICANT RAINFALL EVENT AND REPAIRED IMMEDIATELY. THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE BARRIERS, IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR EDGES OF THE BARRIER, OR IF LARGE VOLUMES OF WATER ARE IMPOUNDED BEHIND THE BARRIER, IT MAY BE NECESSARY TO INSTALL A SEDIMENT BASIN UPSTREAM OF THE BARRIER. SEDIMENT SHALL BE REMOVED ONCE IT REACHES HALF THE BARRIER HEIGHT. AFTER THE BARRIER IS REMOVED, ANY REMAINING SILT SHALL EITHER BE REMOVED OR GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

TEMPORARY EROSION CONTROL MEASURES ARE REMOVED ONCE THE SITE IS PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.

4. STORM DRAIN INLET PROTECTION

STORM DRAIN INLETS THAT ARE MADE OPERATIONAL BEFORE THEIR DRAINAGE AREA IS STABILIZED SHALL BE PROTECTED WITH A FILTER UNTIL THE DRAINAGE AREA IS EITHER PAVED OR STABILIZED WITH 95% VEGETATIVE GROWTH. THE FOLLOWING ARE ACCEPTABLE BMPs ASSOCIATED WITH STORM DRAIN INLET PROTECTION:

MANUFACTURED SEDIMENT FILTERS ARE THE PREFERRED METHOD FOR PROTECTING CATCH BASIN INLETS IN PAVED OR GRAVEL ROADWAYS. THE FILTERS TYPICALLY CONSIST OF A FABRIC OR OTHER PERVIOUS MATERIAL THAT IS PLACED ABOVE OR BELOW THE GRATE THAT TRAPS SEDIMENT ON THE SURFACE AND ALLOWS WATER TO FLOW THROUGH THE GRATE. CONSIDERATIONS SUCH AS WEATHER CONDITIONS, SLOPES, TRIBUTARY WATERSHED AREA AND EXPECTED SEDIMENT ACCUMULATION SHOULD BE FACTORED INTO MAKING A DECISION ON ANY PARTICULAR PRODUCT, AND THE MANUFACTURER'S RECOMMENDATIONS ON INSTALLATION AND MAINTENANCE SHALL BE STRICTLY ADHERED TO.

5. STABILIZED CONSTRUCTION ENTRANCE/EXIT

TO REDUCE THE TRACKING OF SEDIMENT ONTO ROADWAYS, A STABILIZED CONSTRUCTION EXIT SHALL BE INSTALLED AT ALL POINTS OF EGRESS WHERE VEHICLES MAY TRAVEL FROM THE PROJECT SITE TO A PUBLIC ROAD OR OTHER PAVED AREA. THE STONE PAD SHALL CONSIST OF A MINIMUM 6-INCH DEPTH OF 2-3 INCH CRUSHED STONE, AND SHALL BE PLACED ON A GEOTEXTILE FABRIC. THE PAD SHALL EXTEND AT LEAST 50 FEET INTO THE PROJECT SITE AND BE A MINIMUM OF 10 FEET WIDE. THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, AND THE CONTRACTOR SHALL SWEEP PAVEMENT AT EXITS THAT HAVE EXPERIENCED ANY MUD-TRACKING PRIOR TO THE NEXT STORM EVENT. MAINTAIN THE PAD UNTIL ALL DISTURBED AREAS ARE STABILIZED.

INSPECTION & MAINTENANCE NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL CONSTRUCTION OPERATIONS COMPLY WITH THE INSPECTION AND MAINTENANCE PROCEDURES FOR THE PROJECT, INCLUDING, BUT NOT LIMITED TO THOSE INCLUDED IN THIS PLAN SET, THE "INSPECTION, MAINTENANCE, AND HOUSEKEEPING PLAN", AND THE "MAINE EROSION AND SEDIMENTATION CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS". INSPECTION SHALL OCCUR ON ALL DISTURBED AND IMPERVIOUS AREAS, EROSION CONTROL MEASURES, MATERIAL STORAGE AREAS THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. THESE AREAS SHALL BE INSPECTED AT LEAST ONCE A WEEK AS WELL AS 24 HOURS BEFORE AND AFTER A STORM EVENT GENERATING MORE THAN 0.5 INCH OF RAINFALL FOR A 24-HOUR PERIOD AND PRIOR TO COMPLETING PERMANENT STABILIZATION MEASURES. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT THE INSPECTIONS.
- EROSION CONTROLS SHALL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED. IF BEST MANAGEMENT PRACTICES (BMPs) NEED TO BE REPAIRED, THE REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF BMPs NEED TO BE MAINTAINED OR MODIFIED, ADDITIONAL BMPs ARE NECESSARY, OR OTHER CORRECTIVE ACTION IS NEEDED, IMPLEMENTATION MUST BE COMPLETED WITHIN SEVEN CALENDAR DAYS AND PRIOR TO ANY RAINFALL EVENT.
- A REPORT SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN MUST BE MAINTAINED ON SITE. THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND THE MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS, MATERIALS STORAGE AREAS, AND VEHICLE ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS MUST INCLUDE BMPs THAT NEED MAINTENANCE, BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPs, NOTE IN THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN. THE LOG MUST BE MADE ACCESSIBLE TO MDPF AND TOWN STAFF, AND A COPY MUST BE PROVIDED UPON REQUEST. THE OWNER SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

6. DUST CONTROL

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST ON THE PROJECT SITE AND ON ADJACENT ROADWAYS. EXPOSED SOIL SURFACES SHALL BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST. GRAVEL SURFACES SHALL EITHER BE TREATED WITH AN APPLICATION OF CALCIUM CHLORIDE OR COVERED WITH CRUSHED STONE IF DUST CONTROL BECOMES DIFFICULT WITH NORMAL WATER APPLICATIONS.

7. LAND GRADING AND SLOPE PREPARATION

GRADING SHALL BE PLANNED SO AS TO MINIMIZE THE LENGTH OF TIME BETWEEN INITIAL SOIL EXPOSURE AND FINAL GRADING. ON LARGE PROJECTS THIS SHOULD BE ACCOMPLISHED BY PHASING THE OPERATION AND COMPLETING THE FIRST PHASE UP TO FINAL GRADING AND SEEDING BEFORE STARTING THE NEXT PHASE. ANY EXPOSED AREA THAT WILL NOT BE FINISH GRADED WITHIN 7 DAYS SHALL BE TREATED WITH MULCH OR PLANTED WITH TEMPORARY VEGETATION. PROVISIONS SHALL BE MADE TO SAFELY CONVEY SURFACE RUNOFF TO STORM DRAINS, PROTECTED OUTLETS OR TO STABLE WATER COURSES TO ENSURE THAT SURFACE RUNOFF WILL NOT DAMAGE SLOPES OR OTHER GRADED AREAS. CUT AND FILL SLOPES THAT ARE TO BE STABILIZED WITH GRASS SHALL NOT BE STEEPER THAN 2:1. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIALS. AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. ALL FILLS SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS. FILL MATERIAL SHALL BE FREE OF STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILL SLOPES OR STRUCTURAL FILLS. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED APPROPRIATELY. ALL GRADED AREAS MUST BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

8. TOPSOIL

IF POSSIBLE, TOPSOIL SHALL BE STOCKPILED ON THE PROJECT SITE AND REUSED. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM), AND SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENEED BY SCARIFYING TO A DEPTH OF AT LEAST 2 INCHES TO ENSURE BONDING WITH SUBSOIL. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 4 INCHES. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. IT IS NECESSARY TO COMPACT THE TOPSOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL, BUT UNDUCE COMPACTION IS TO BE AVOIDED.

9. PERMANENT SOIL STABILIZATION

IF THE AREA WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, THEN PERMANENTLY STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH, OR RIPRAP, OR ROAD SUB-BASE. IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, MOISTURE, AND SOIL CONDITIONS; AMEND AREAS OF DISTURBED SUBSOILS WITH TOPSOIL, COMPOST, OR FERTILIZERS; PROTECT SEEDED AREAS WITH MULCH OR, IF NECESSARY, EROSION CONTROL BLANKETS; AND SCHEDULE SODDING, PLANTING, AND SEEDING SO TO AVOID DIE-OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED WITH 90% COVER BY HEALTHY VEGETATION. IF NECESSARY, AREAS MUST BE REWORKED AND RESTABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT. ONE OR MORE OF THE FOLLOWING MAY APPLY TO A PARTICULAR SITE.

SEEDED AREAS: TO PREPARE THE SEEDED, APPLY 10-20-20 FERTILIZER AT A RATE OF 800 POUNDS PER ACRE AND GROUND LIMESTONE AT A RATE OF 3 TONS PER ACRE. WORK THE FERTILIZER AND LIMESTONE INTO THE TOPSOIL TO A DEPTH OF 4 INCHES AND REMOVE ANY STONES, ROOTS OR OTHER VISIBLE DEBRIS. SELECT A SEED MIXTURE THAT IS APPROPRIATE FOR THE SOIL TYPE AND MOISTURE CONTENT AS FOUND AT THE SITE, AND FOR THE AMOUNT OF SUN EXPOSURE AND FOR LEVEL OF USE. REFER TO THE LOCAL SOIL AND WATER CONSERVATION DISTRICT FOR APPROPRIATE SEED MIXTURES. APPLY SEED UNIFORMLY IN ACCORDANCE WITH SUPPLIER RECOMMENDATIONS AND IMMEDIATELY COVER WITH MULCH AS DESCRIBED IN THE TEMPORARY MULCHING SECTION OF THIS PLAN.

HYDROSEEDING SHALL BE DONE IN ACCORDANCE WITH SUPPLIER'S RECOMMENDATIONS. FOR SEEDED AREAS TO BE PERMANENTLY STABILIZED, 90% OF THE DISTURBED SOIL SHALL BE COVERED WITH MATURE HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

SOD STRIPS SHALL BE LAID AT RIGHT ANGLES TO DIRECTION OF SLOPE OR FLOW OF WATER STARTING AT LOWEST ELEVATION. JOINTS SHALL BE STAGGERED, AND ALL STRIPS SHALL BE ROLLED OR TAMPED INTO PLACE. ON SLOPES, SOD SHALL BE ANCHORED WITH STAPLES, WIRE OR PINS. IRRIGATE SODDED AREA IMMEDIATELY AFTER INSTALLATION. FOR SODDED AREAS TO BE PERMANENTLY STABILIZED, THE ROOTS OF THE SOD MUST BE COMPLETELY BOUND INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.

PERMANENT MULCH IS A LONG TERM COVER THAT PROVIDES A GOOD BUFFER AGAINST DISTURBED AREAS. THE EROSION CONTROL MIX SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND MAY INCLUDE SHREDDED BARK, STUMP GRINDINGS OR COMPOSTED BARK. WOOD CHIPS, GROUND CONSTRUCTION DEBRIS, REPROCESSED WOOD PRODUCTS OR BARK CHIPS ARE NOT ACCEPTABLE. THE EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4 INCHES IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH.

RIPRAP STONE SHALL CONSIST OF SUB-ANGULAR FIELD STONE OR ROUGH UNEVEN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE. THE DEPTH OF STONE SHALL BE A MINIMUM OF 2.2 TIMES THE MAXIMUM STONE DIAMETER. A GRAVEL OR GEOTEXTILE FILTER BLANKET SHALL BE PLACED BETWEEN THE RIPRAP AND UNDERLYING SOIL SURFACE. GRAVEL FILTER BLANKETS SHALL MEET MOOT TYPE-C UNDERDRAIN MATERIAL SPECIFICATIONS AND BE AT LEAST 6 INCHES THICK. GEOTEXTILE FILTER BLANKETS SHALL BE SPECIFIED BASED ON SITE CONDITIONS. RIPRAP SLOPES SHALL BE TOED INTO TO THE BASE OF THE EMBANKMENT BY EXCAVATING A TRENCH AT THE BOTTOM OF THE SLOPE AND INSTALLING A STABLE BASE OF RIPRAP TO GRADE.

DITCHES, CHANNELS AND SWALES ARE CONSIDERED PERMANENTLY STABILIZED WHEN THE CHANNEL HAS 90% COVER OF HEALTHY VEGETATION WITH A WELL GRADED RIPRAP LINING, EROSION CONTROL BLANKET, OR WITH ANOTHER NON-EROSIVE LINING SUCH AS CONCRETE OR ASPHALT PAVEMENT. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE CHANNEL LINING, UNDERCUTTING OF THE BANKS, OR DOWNCUTTING OF THE CHANNEL.

10. STORMWATER CHANNELS

EACH CHANNEL SHOULD BE CONSTRUCTED IN SECTIONS SO THAT THE SECTION'S GRADING, SHAPING, AND INSTALLATION OF THE PERMANENT LINING CAN BE COMPLETED THE SAME DAY. IF A CHANNEL'S FINAL GRADING OR LINING INSTALLATION MUST BE DELAYED, THEN DIVERSION BERMS MUST BE USED TO DIVERT STORMWATER AWAY FROM THE CHANNEL. PROPERLY SPACED CHECK DAMS MUST BE INSTALLED IN THE CHANNEL TO SLOW THE WATER VELOCITY, AND A TEMPORARY LINING INSTALLED ALONG THE CHANNEL TO PREVENT SCOURING.

WINTER EROSION AND SEDIMENTATION CONTROL NOTES:

THE WINTER CONSTRUCTION PERIOD TYPICALLY BEGINS IN EARLY NOVEMBER AND ENDS IN MID APRIL. IF A CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE OR RIPRAP BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS TO OCCUR DURING THE FOLLOWING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. AN AREA SHALL BE CONSIDERED DENUDED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN THE ROADWAY AREAS OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOADED, SEEDED AND MULCHED. A COVER OR EROSION CONTROL MIX IS THE PREFERRED TEMPORARY MULCH DURING WINTER CONDITIONS.

1. NATURAL RESOURCE PROTECTION

ANY AREAS WITHIN 75 FEET FROM ANY REGULATED NATURAL RESOURCES SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH AN EROSION CONTROL COVER. DURING WINTER CONSTRUCTION, A DOUBLE ROW OF SEDIMENT BARRIERS (FOR EXAMPLE, SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY REGULATED NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE REGULATED NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND RAINS.

2. SEDIMENT BARRIERS

DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES OR SILT FENCES.

3. MULCHING

ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE (TWICE THE NORMAL ACCEPTED RATE) AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX MUST BE APPLIED WITH A MINIMUM 4 INCHES THICKNESS. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. SNOW MUST BE REMOVED DOWN TO A ONE-INCH DEPTH PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERTY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED OR ADEQUATELY ANCHORED SO THAT GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER MULCH NETTING, TRACKING OR WOOD CELLULOSE FIBER. THE COVER WILL BE CONSIDERED SUFFICIENT WITH THE GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. AFTER NOVEMBER 15T, MULCH AND ANCHORING OF ALL EXPOSED SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORKDAY.

4. SOIL STOCKPIILING

STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE FOR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STACKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED WITHIN 100 FEET FROM ANY REGULATED NATURAL RESOURCE.

5. SEEDING

BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED PROJECTS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOOSED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF DORMANT SEEDING IS USED, ALL DISTURBED AREAS SHALL RECEIVE 4 INCHES OF LOAM AND SEED AT AN APPLICATION RATE OF 5 LBS PER 1,000 S.F. ALL AREAS INSUFFICIENTLY VEGETATED (LESS THAN 75%) IN THE SPRING SHALL BE REVEGETATED.

6. OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS

ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED BY NOVEMBER 1. ALL GRASS-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. IF A GRASS-LINED DITCH OR CHANNEL IS STABILIZED BY SEPTEMBER 1, THEN EITHER A SOIL LINING SHALL BE INSTALLED PRIOR TO OCTOBER 1 OR THE DITCH MUST BE LINED WITH STONE RIPRAP BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE TYPIC TO NOVEMBER 1.

7. OVER-WINTER STABILIZATION OF DISTURBED SLOPES

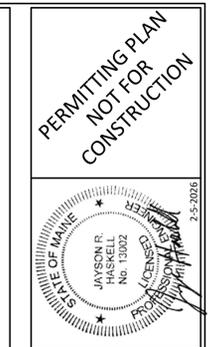
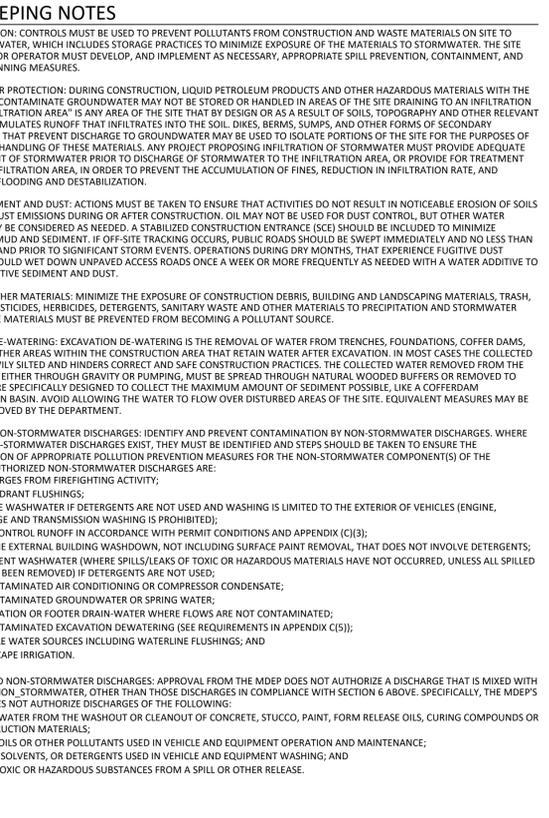
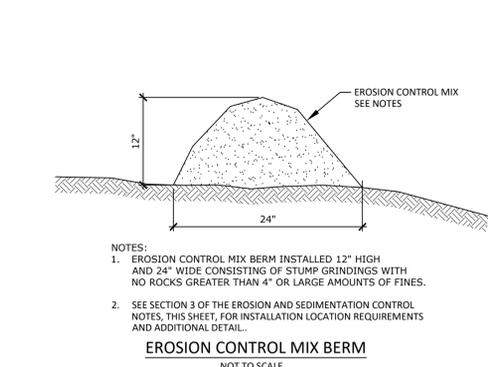
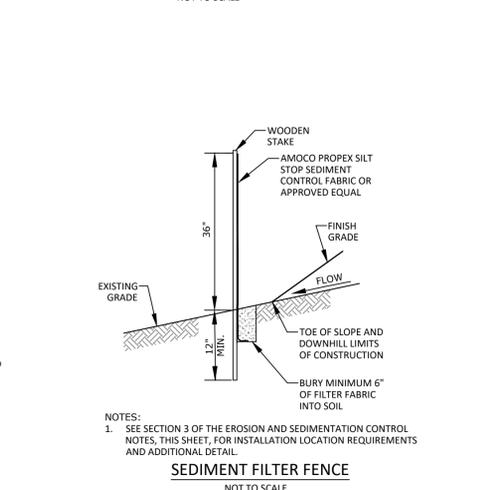
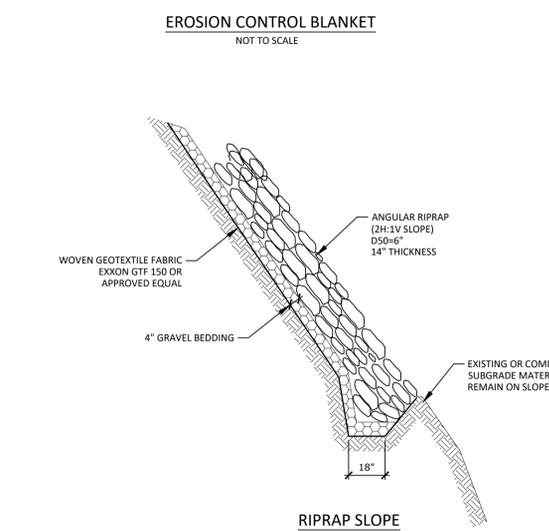
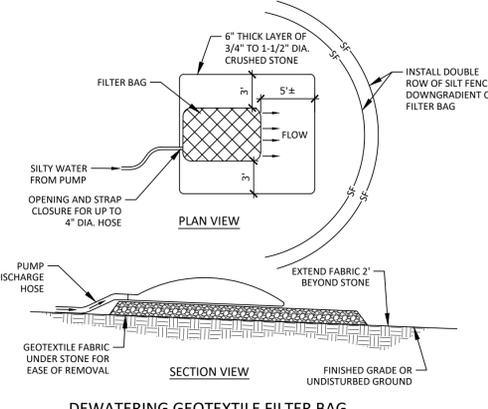
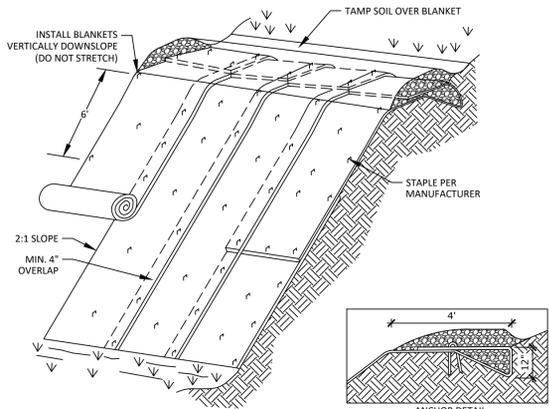
ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL SLOPES TO BE VEGETATED MUST BE SEEDED AND MULCHED BY SEPTEMBER 1. ALL AREAS HAVING A GRADE STEEPER THAN 8% SHALL BE CONSIDERED A SLOPE. IF A SLOPE TO BE VEGETATED IS NOT STABILIZED BY SEPTEMBER 1, THEN THE SLOPE SHALL EITHER BE STABILIZED WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS BY OCTOBER 1, SOD BY OCTOBER 1, EROSION CONTROL MIX BY NOVEMBER 1 OR STONE RIPRAP BY NOVEMBER 15. SEE APPLICABLE SECTIONS UNDER EROSION AND SEDIMENTATION CONTROL NOTES FOR PROPER INSTALLATION METHODS.

8. OVER-WINTER STABILIZATION OF DISTURBED SOILS

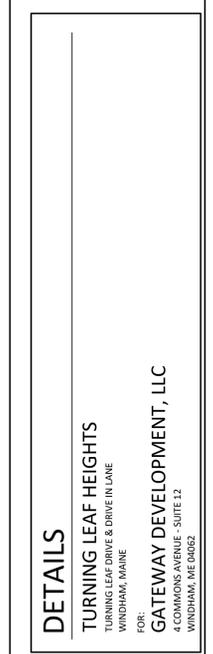
BY SEPTEMBER 15, ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15% MUST BE SEEDED AND MULCHED. IF THE DISTURBED AREAS ARE NOT STABILIZED BY THIS DATE, THEN THE AREA SHALL EITHER BE STABILIZED WITH TEMPORARY VEGETATION BY OCTOBER 1, SOD BY OCTOBER 1, OR MULCH BY NOVEMBER 15. SEE APPLICABLE SECTIONS UNDER EROSION AND SEDIMENTATION CONTROL NOTES FOR PROPER INSTALLATION METHODS.

9. MAINTENANCE

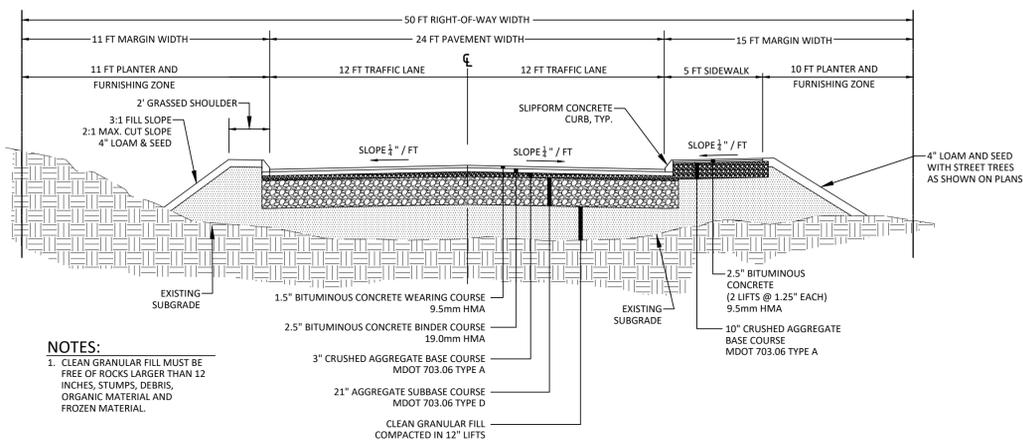
MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED THROUGHOUT THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM, PERIOD OF THAWING AND RUNOFF AND AT LAST ONCE A WEEK, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN THE SPRING, INSPECT AND REPAIR ANY DAMAGES AND/OR BARE SPOTS. AN ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH.



REV.	DATE	BY	DESCRIPTION
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D	2-5-26	DMR	REVISED PER TOWN REVIEW COMMENTS

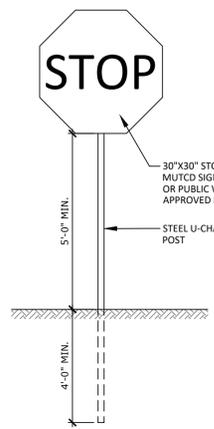


20013
JOB NUMBER:
AS NOTED
SCALE:
2-5-2026
DATE:
SHEET 16 OF 19
D-1

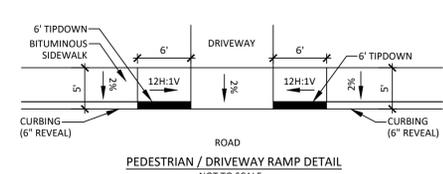


- NOTES:**
- CLEAN GRANULAR FILL MUST BE FREE OF ROCKS LARGER THAN 12 INCHES, STUMPS, DEBRIS, ORGANIC MATERIAL AND FROZEN MATERIAL.

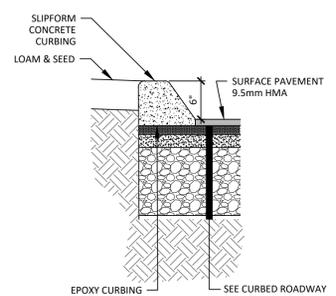
TYPICAL ROADWAY SECTION
NOT TO SCALE



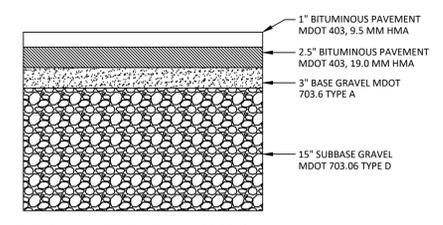
STOP SIGN INSTALLATION
NOT TO SCALE



PEDESTRIAN / DRIVEWAY RAMP DETAIL
NOT TO SCALE

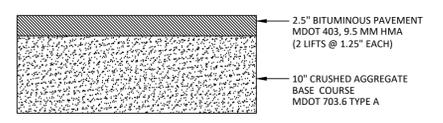


TYPICAL CURB SECTION
NOT TO SCALE

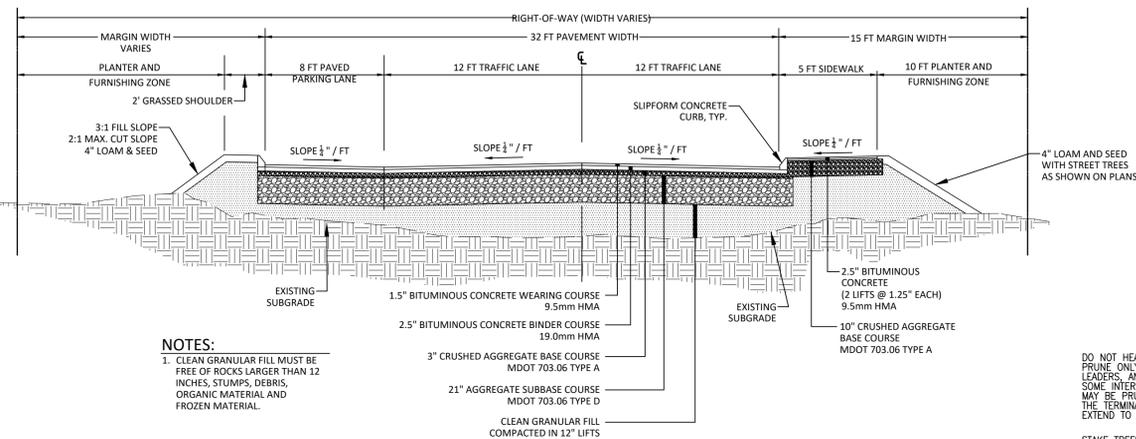


TYPICAL UNIT DRIVEWAY SECTION
NOT TO SCALE

- NOTES:**
- CLEAN GRANULAR FILL MUST BE FREE OF ROCKS LARGER THAN 12 INCHES, STUMPS, DEBRIS, ORGANIC MATERIAL AND FROZEN MATERIAL.



TYPICAL PAVED WALKING PATH OR SIDEWALK SECTION
NOT TO SCALE



- NOTES:**
- CLEAN GRANULAR FILL MUST BE FREE OF ROCKS LARGER THAN 12 INCHES, STUMPS, DEBRIS, ORGANIC MATERIAL AND FROZEN MATERIAL.

TURNING LEAF DRIVE TYPICAL ROADWAY SECTION WITH ON-STREET PARKING ONE SIDE
NOT TO SCALE

DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE.

SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2 INCHES HIGHER IN SLOWLY DRAINING SOILS.

MINIMUM 8 INCHES BARE ROOTBALL MEASURED FROM TRUNK CROWN.

3 INCHES MULCH, DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.

MINIMUM 3 INCHES HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL.

REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL.

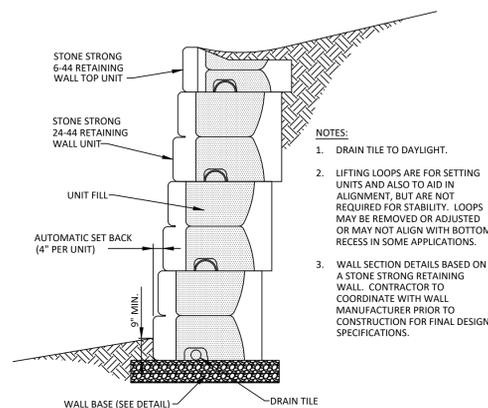
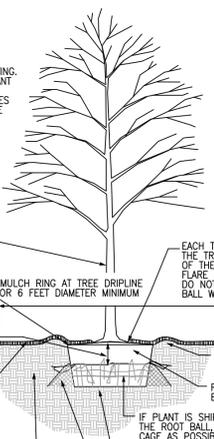
IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT AND REMOVE AS MUCH OF WIRE CAGE AS POSSIBLE WITHOUT DAMAGING ROOTBALL INTEGRITY.

PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL.

TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

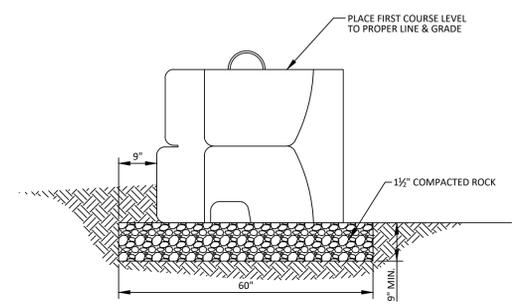
NOTE: FOR DIMENSIONS OF PLANTING AREAS, TYPES OF SOIL AMENDMENTS, OR SOIL REPLACEMENT, SEE LANDSCAPE NOTES AND/OR SPECS.

TREE INSTALLATION DETAIL - BALL & BURLAP
NOT TO SCALE



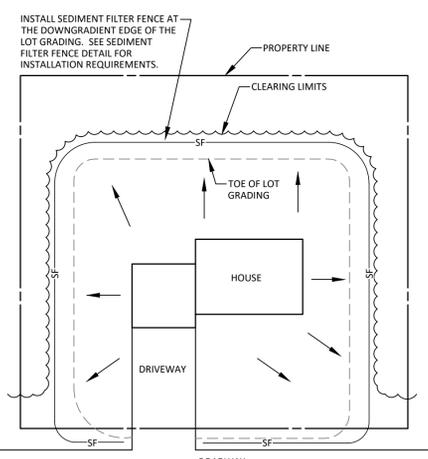
- NOTES:**
- DRAIN TILE TO DAYLIGHT.
 - LIFTING LOOPS ARE FOR SETTING UNITS AND ALSO TO AID IN ALIGNMENT, BUT ARE NOT REQUIRED FOR STABILITY. LOOPS MAY BE REMOVED OR ADJUSTED OR MAY NOT ALIGN WITH BOTTOM RECESS IN SOME APPLICATIONS.
 - WALL SECTION DETAILS BASED ON A STONE STRONG RETAINING WALL. CONTRACTOR TO COORDINATE WITH WALL MANUFACTURER PRIOR TO CONSTRUCTION FOR FINAL DESIGN SPECIFICATIONS.

GRAVITY WALL CROSS SECTION
NOT TO SCALE

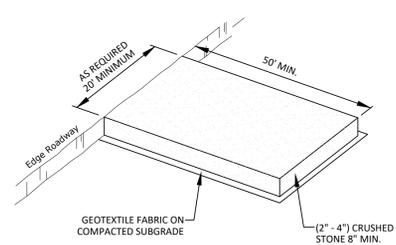


NOTE: BEARING CONDITIONS SHALL BE OBSERVED BY THE SITE GEOTECHNICAL ENGINEER. BASE DIMENSIONS MAY BE INCREASED TO ADDRESS DEFICIENT SOIL BEARING CONDITIONS.

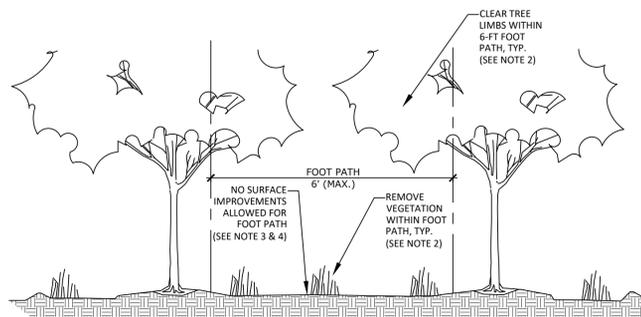
WALL BASE DETAIL
NOT TO SCALE



TYPICAL HOUSE LOT EROSION CONTROL DETAIL
NOT TO SCALE

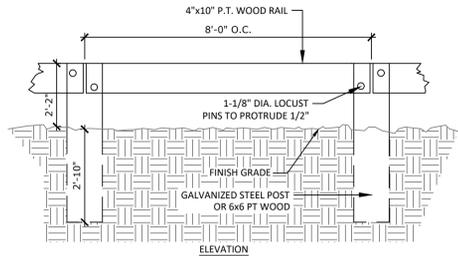
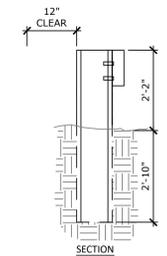


STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



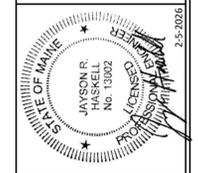
FOOT PATH DETAIL

- NOTES:**
- PROPOSED FOOT PATH THROUGH THE OPEN SPACE A SHALL BE LOCATED SUCH THAT NO TREE CLEARING IS REQUIRED.
 - CLEARING FOR FOOT PATH IS LIMITED TO REMOVING BRUSH AND VEGETATION, AND IF NECESSARY TRIMMING OF LIMBS ONLY.
 - FOOT PATH SHALL NOT BE INSTALLED WITH ANY SURFACE IMPROVEMENTS OR EARTH DISTURBANCE (NO EXCAVATION OR PLACEMENT OF FILL, AND NO INSTALLATION OF GRAVEL/PAVEMENT).
 - IN THE EVENT NO ALTERNATE FOOT PATH LOCATION IS ACCEPTABLE, 4-FT WIDE (MAX.) STAIRS MAY BE INSTALLED WHERE SLOPES EXCEED 15%.



WOOD GUARDRAIL DETAIL
NOT TO SCALE

PERMITTING PLAN
NOT FOR
CONSTRUCTION



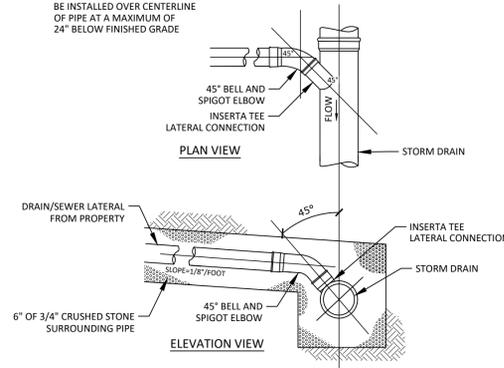
DM ROMA
CONSULTING ENGINEERS
P.O. BOX 1116
WINDHAM, ME 04062
(207) 591-5055

REV	DATE	BY	DESCRIPTION
A	9-25-24	JRH	ISSUED FOR MDP PERMIT REVIEW
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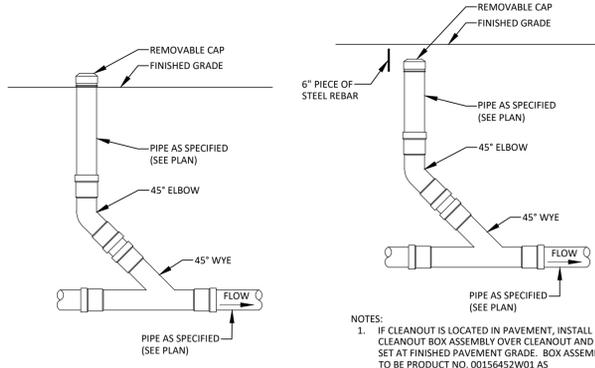
DETAILS
TURNING LEAF HEIGHTS
TURNING LEAF DRIVE & DRIVE IN LANE
WINDHAM, MAINE
FOR: GATEWAY DEVELOPMENT, LLC
4 COMANS AVE. SUITE 12
WINDHAM, ME 04062

20013
JOB NUMBER:
AS NOTED
SCALE:
2-5-2026
DATE:
SHEET 17 OF 19
D-2

NOTE: LOCATION/WARNING TAPE SHALL BE INSTALLED OVER CENTERLINE OF PIPE AT A MAXIMUM OF 24" BELOW FINISHED GRADE

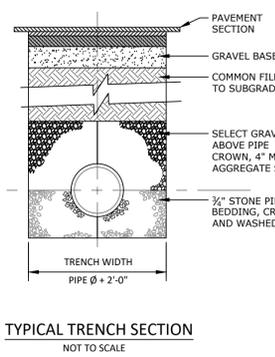


DRAIN/SEWER LATERAL CONNECTION
NOT TO SCALE

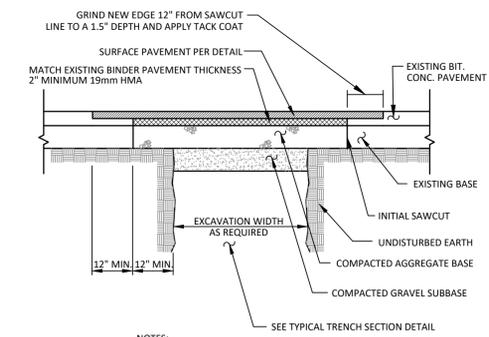


UNDERDRAIN CLEANOUT DETAIL
NOT TO SCALE

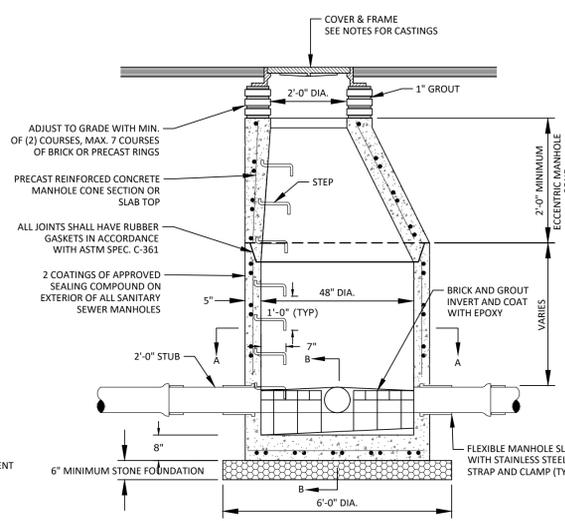
SANITARY CLEANOUT DETAIL
NOT TO SCALE



TYPICAL TRENCH SECTION
NOT TO SCALE

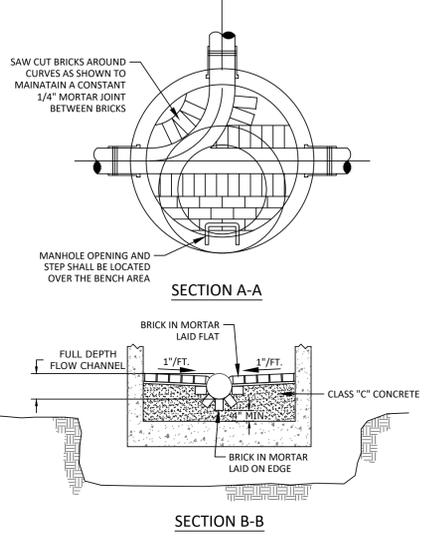


PAVEMENT REPAIR DETAIL
NOT TO SCALE



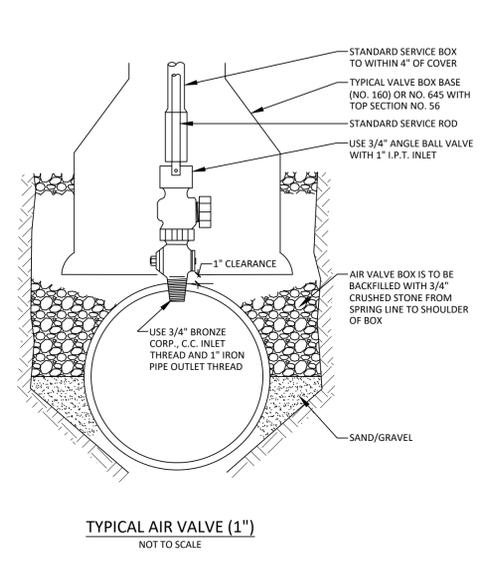
PRECAST CONCRETE SANITARY MANHOLE
NOT TO SCALE

- NOTES:**
- SOLID COVER TO BE EAST JORDAN IRONWORKS PRODUCT NUMBER 00104175 OR APPROVED EQUAL AND SHALL BE MARKED "SANITARY SEWER". FRAME TO BE EAST JORDAN IRONWORKS PRODUCT NUMBER 00104510 OR APPROVED EQUAL.
 - CONNECTIONS TO EXISTING SANITARY MANHOLES TO BE APPROVED BY SEWER DISTRICT AND CORE DRILLED WITH FLEXIBLE BOOT.
 - MANHOLE CHANNELS REQUIRING CHANGE IN ALIGNMENT ARE TO BE BUILT ON A SMOOTH RADIUS. IF SIDE PIPES ENTER CHANNEL, SHAPE TO RECEIVE ADDED SIDE FLOW (SEE SECTION A-A).
 - USE FLAT SLAB TOP MANHOLE WHEN THE DIFFERENCE BETWEEN INVERT AND RIM IS LESS THAN 6'-0" AND WHEN MANHOLE DIAMETER IS GREATER THAN 4'-0".
 - AVERAGE STRENGTH OF CONCRETE TO BE 4,000 PSI AT 28 DAYS. STRUCTURE TO BE DESIGNED FOR H-20 LOADING.



SECTION A-A

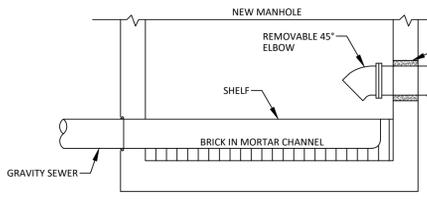
SECTION B-B



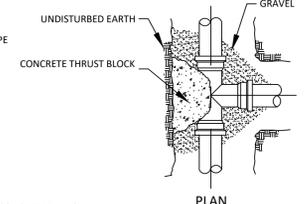
TYPICAL AIR VALVE (1")
NOT TO SCALE

FITTINGS	CONCRETE THRUST BLOCK SIZE REQUIREMENTS			
	90° BENDS	45° BENDS	TEES AND PLUGS	SQ. FT. OF BEARING ON UNDISTURBED SOIL
PIPE SIZE	6"	8"	12"	16"
	4.0	4.0	9	19
	2.0	2.0	12	28

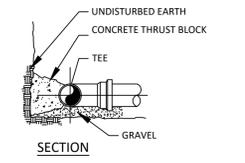
BASED ON SOIL BEARING PRESSURE OF 2000PSF AND 100PSI LINE PRESSURE. COMPACT COURSE TO FINE SANDS AND CLAYS REQUIRE ENGINEERED BLOCKS. ENGINEERED BLOCKS WILL TYPICALLY REQUIRE REINFORCING STEEL OF #5 AT 12".



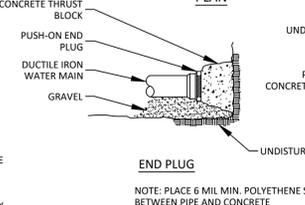
FORCE MAIN TERMINOUS
NOT TO SCALE



PLAN



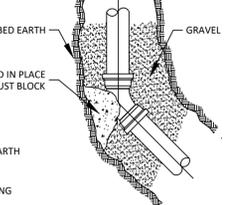
SECTION



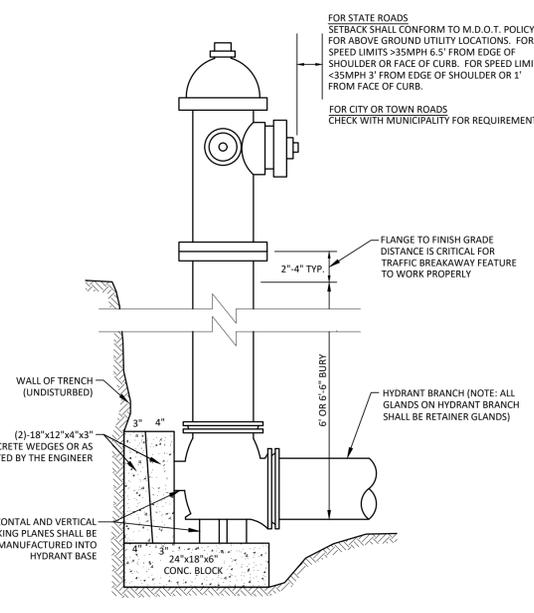
END PLUG

NOTE: PLACE 6 MIL MIN. POLYETHYLENE SHEETING BETWEEN PIPE AND CONCRETE

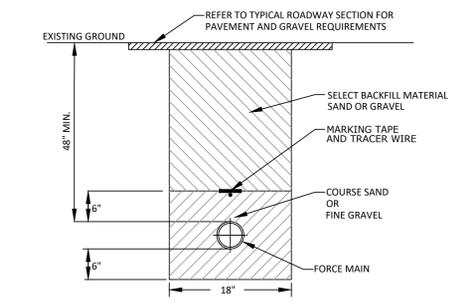
THRUST BLOCK DETAIL
NOT TO SCALE



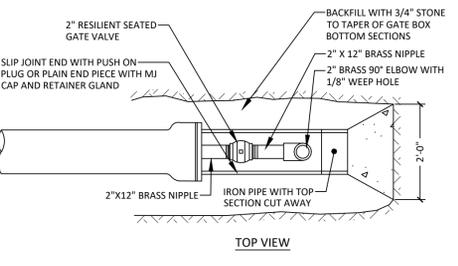
45° BEND



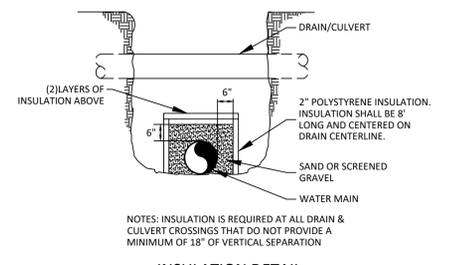
TYPICAL HYDRANT INSTALLATION DETAIL
NOT TO SCALE



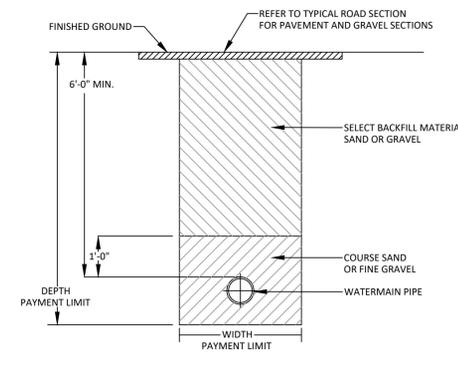
FORCE MAIN TYPICAL TRENCH CROSS-SECTION
NOT TO SCALE



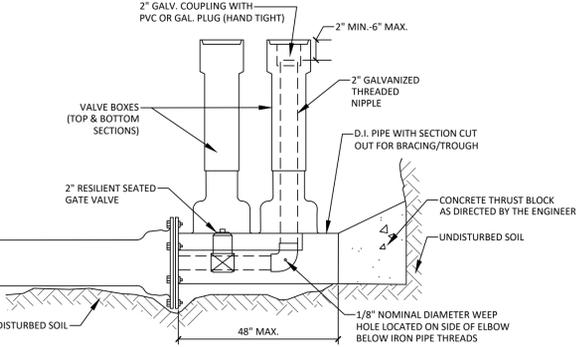
TOP VIEW



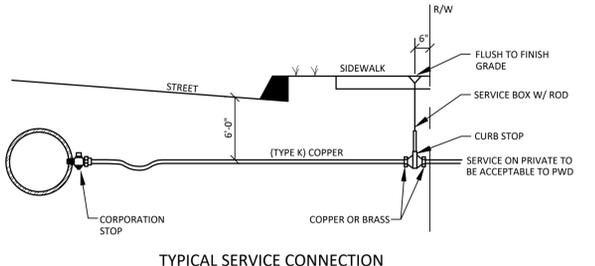
INSULATION DETAIL
NOT TO SCALE



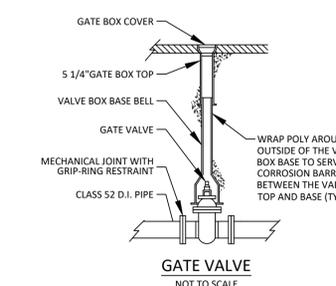
WATERMAIN TYPICAL TRENCH CROSS-SECTION
NOT TO SCALE



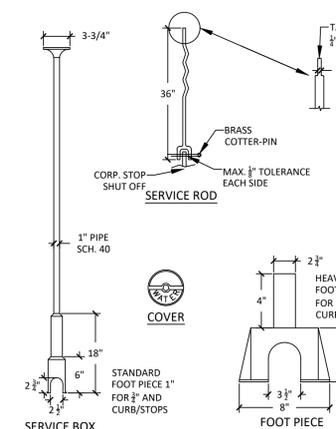
STANDARD 2" BLOW OFF
NOT TO SCALE



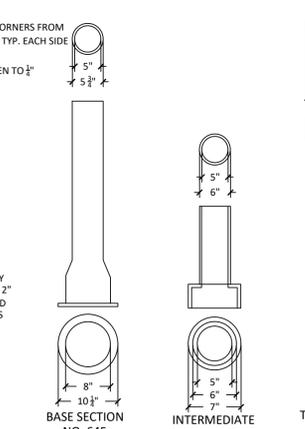
TYPICAL SERVICE CONNECTION
NOT TO SCALE



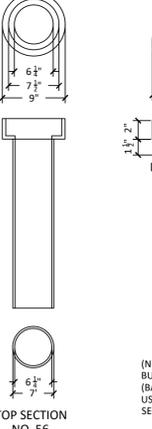
GATE VALVE
NOT TO SCALE



SERVICE BOX



FOOT PIECE



BASE SECTION NO. 645



INTERMEDIATE SECTION NO. 58

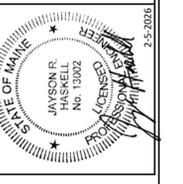


TOP SECTION NO. 56

(NUMBERS ARE FOR 5 1/2" BUFFALO VALVE BOXES) (BASE SECTION MAY BE USED AS INTERMEDIATE SECTION)

VALVE BOX & COVER
NOT TO SCALE

PERMITTING PLAN
NOT FOR CONSTRUCTION

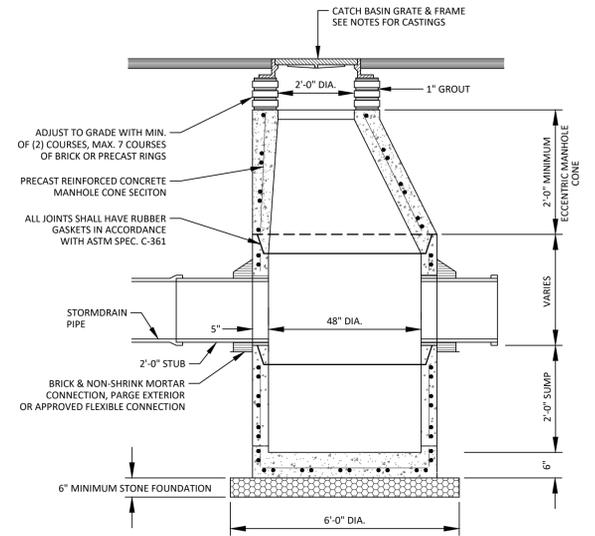
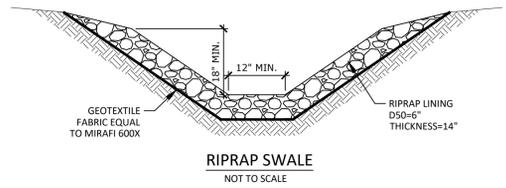
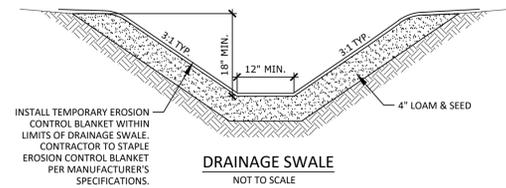


DM ROMA
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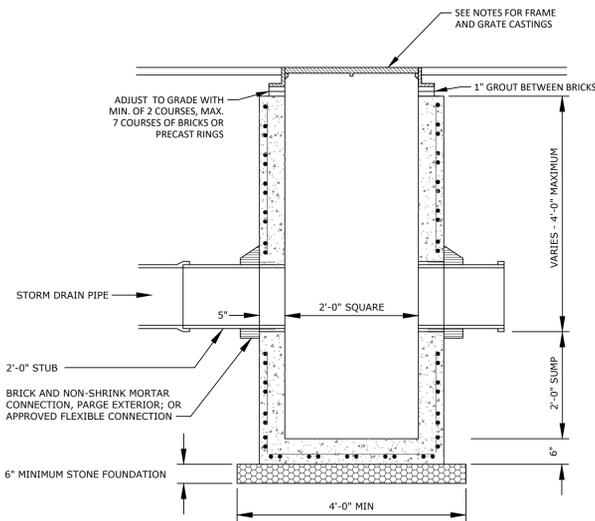
REV.	DATE	BY	DESCRIPTION
A	9-25-24	JRH	ISSUED FOR MDP PERMIT REVIEW
B	7-7-25	JRH	ISSUED FOR TOWN REVIEW
C	11-17-25	JRH	REVISED PER TOWN REVIEW COMMENTS
D	2-5-26	DMR	REVISED PER TOWN REVIEW COMMENTS

DETAILS
TURNING LEAF HEIGHTS
TURNING LEAF DRIVE & DRIVE IN LANE
WINDHAM, MAINE
FOR:
GATEWAY DEVELOPMENT, LLC
4 COMANS AVE. SUITE 12
WINDHAM, ME 04062

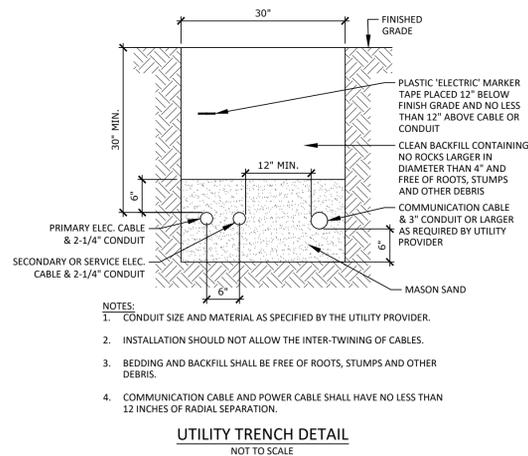
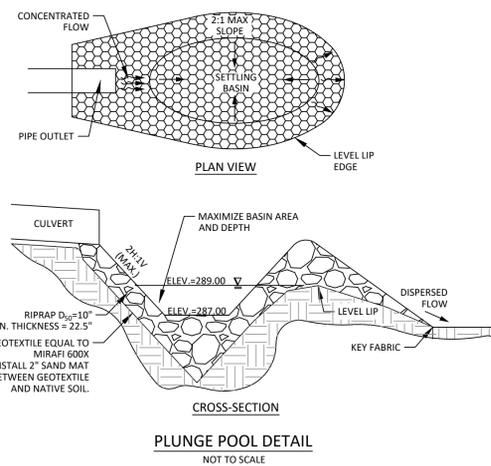
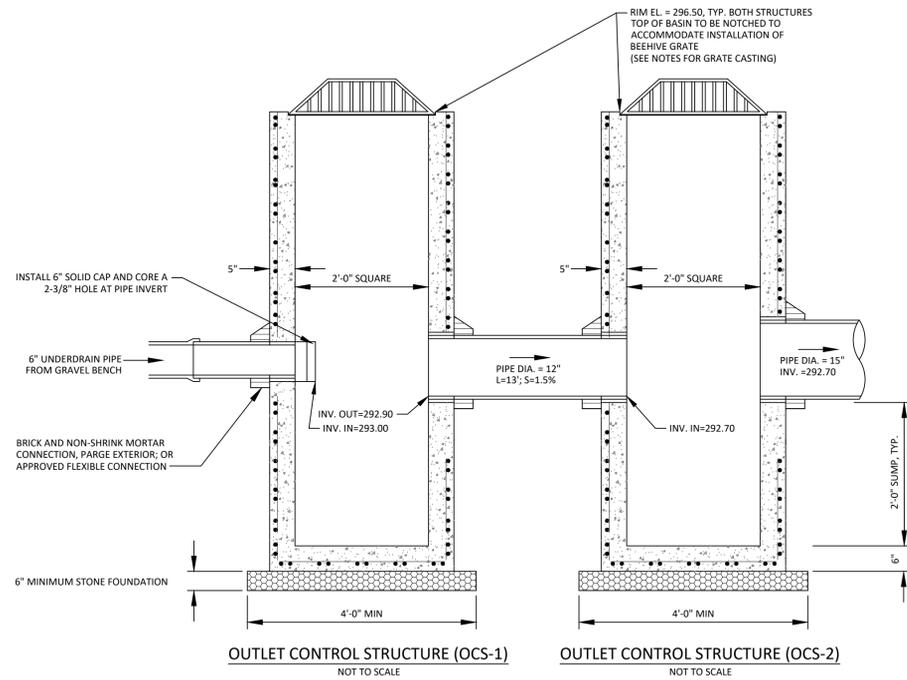
20013
JOB NUMBER:
AS NOTED
SCALE:
2-5-2026
DATE:
SHEET 18 OF 19
D-3



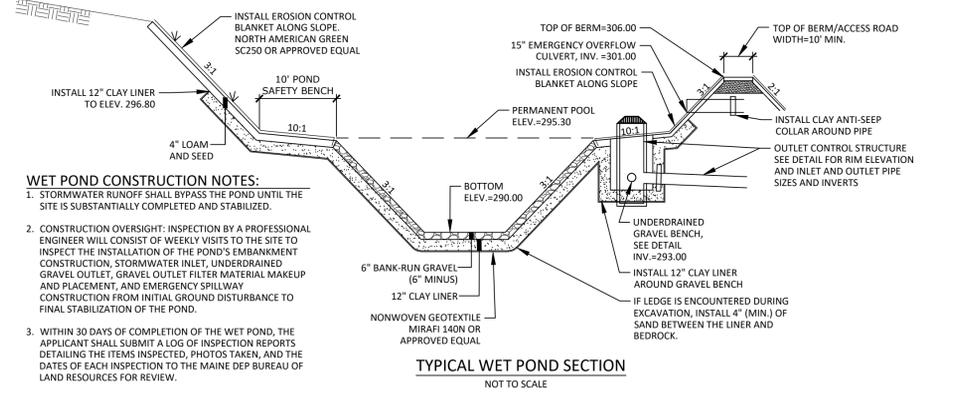
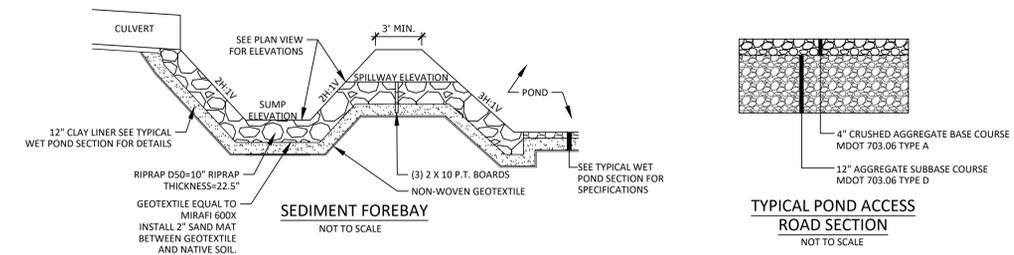
- NOTES:**
- LARGER DIAMETER STRUCTURES MAY BE REQUIRED DUE TO SIZE OR GEOMETRY OF PIPE CONNECTIONS AT MANHOLE. WALL THICKNESS TO INCREASE BY 1" FOR EACH 1'-0" DIA. INCREASE. PROVIDE SHOP DRAWINGS.
 - DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
 - CAST IRON GRATES SHALL BE EQUAL TO EAST JORDAN IRON WORKS, PRODUCT NO. 45622531C01, HEAVY DUTY GRADE OR ENGINEER APPROVED EQUAL. SUBMIT CATALOG SHEETS TO ENGINEER FOR APPROVAL.



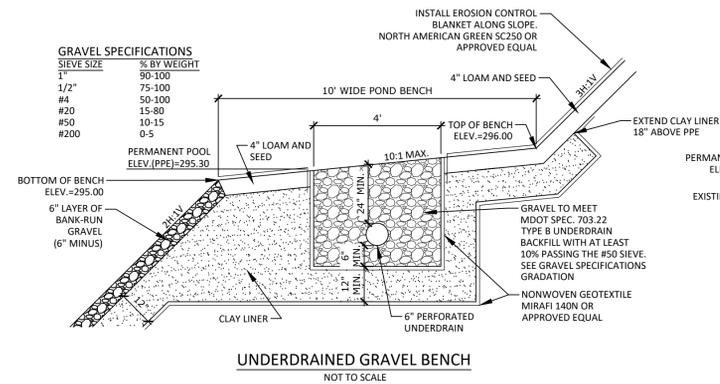
- NOTES:**
- CAST IRON FRAME SHALL BE EQUAL TO EAST JORDAN IRON WORKS, PRODUCT NO. 45622011, REVERSIBLE FRAME AND GRATE SHALL BE EQUAL TO EAST JORDAN IRON WORKS, PRODUCT NO. 45622531, HEAVY DUTY GRADE.
 - SUBMIT SHOP DRAWINGS AND CASTING SPECIFICATIONS TO ENGINEER FOR APPROVAL.



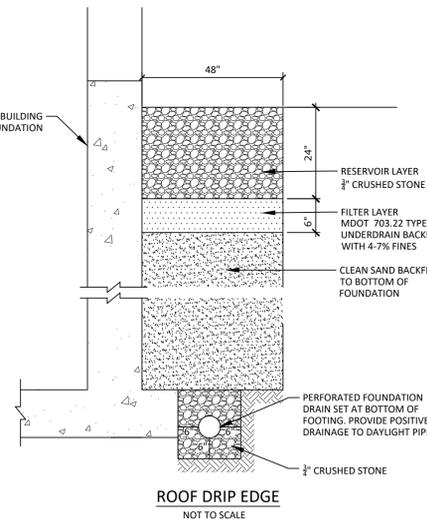
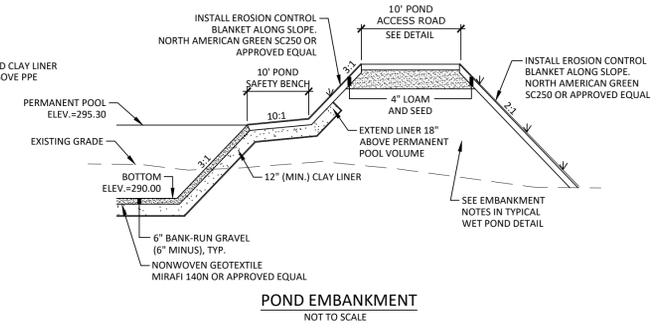
- NOTES:**
- CONDUIT SIZE AND MATERIAL AS SPECIFIED BY THE UTILITY PROVIDER.
 - INSTALLATION SHOULD NOT ALLOW THE INTER-TWINGING OF CABLES.
 - BEDDING AND BACKFILL SHALL BE FREE OF ROOTS, STUMPS AND OTHER DEBRIS.
 - COMMUNICATION CABLE AND POWER CABLE SHALL HAVE NO LESS THAN 12 INCHES OF RADIAL SEPARATION.



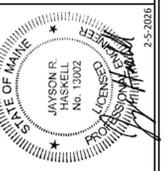
- WET POND CONSTRUCTION NOTES:**
- STORMWATER RUNOFF SHALL BYPASS THE POND UNTIL THE SITE IS SUBSTANTIALLY COMPLETED AND STABILIZED.
 - CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE INSTALLATION OF THE POND'S EMBANKMENT CONSTRUCTION, STORMWATER INLET, UNDERDRAINED GRAVEL OUTLET, GRAVEL OUTLET FILTER MATERIAL MAKEUP AND PLACEMENT, AND EMERGENCY SPILLWAY CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE POND.
 - WITHIN 30 DAYS OF COMPLETION OF THE WET POND, THE APPLICANT SHALL SUBMIT A LOG OF INSPECTION REPORTS DETAILING THE ITEMS INSPECTED, PHOTOS TAKEN, AND THE DATES OF EACH INSPECTION TO THE MAINE DEP BUREAU OF LAND RESOURCES FOR REVIEW.



SIEVE SIZE	% BY WEIGHT
90-100	90-100
1/2"	75-100
#4	50-100
#20	15-90
#50	10-15
#200	0-5



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SHEET 19 OF 19
D-4