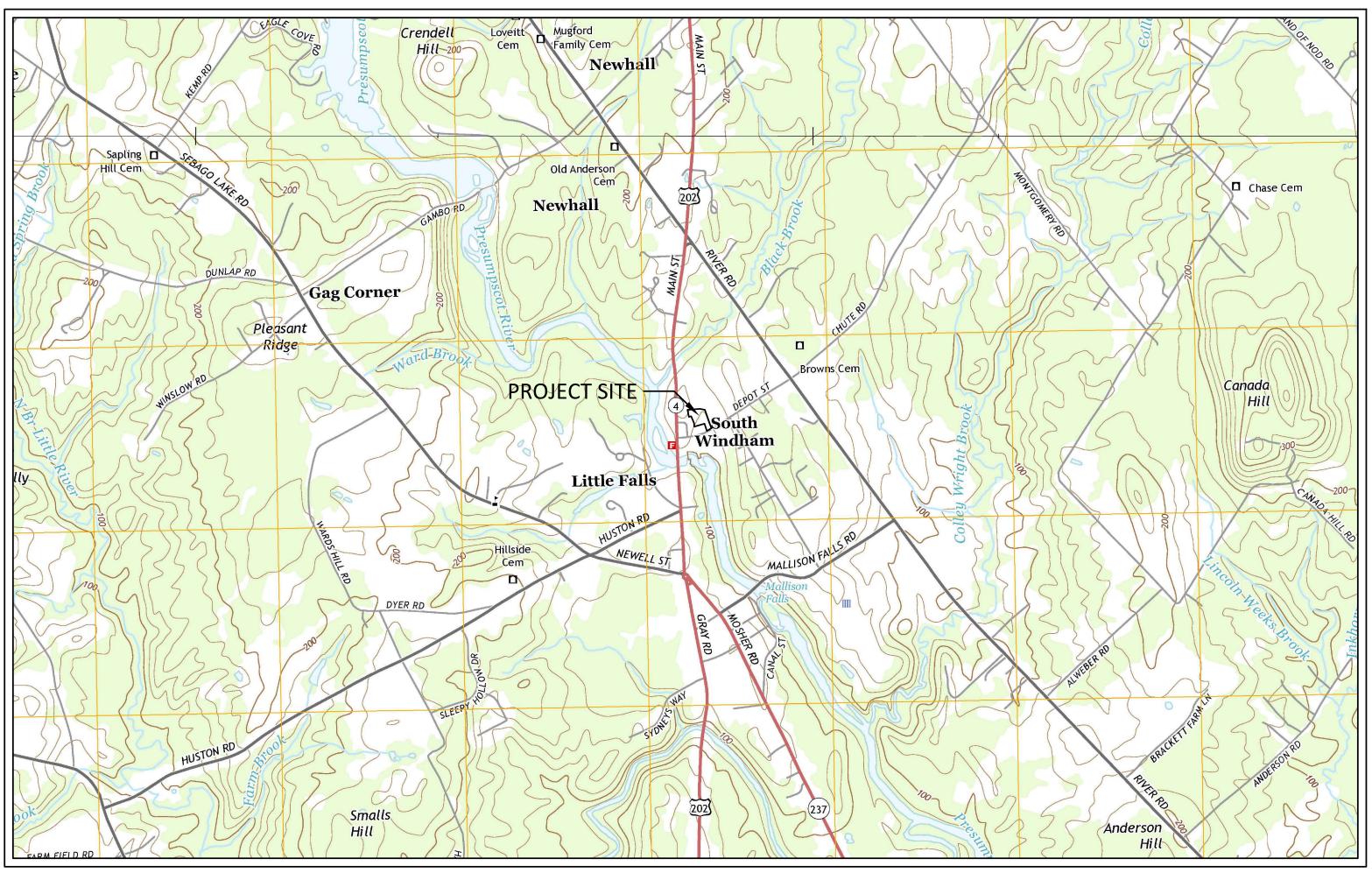
DEPOT STREET RESIDENTIAL DEVELOPMENT

CONSULTANTS

CIVIL ENGINEER DM ROMA CONSULTING ENGINEERS

WETLAND SCIENTIST MAINELY SOILS, LLC

TRAFFIC ENGINEER TRAFFIC SOLUTIONS



DEPOT STREET WINDHAM, MAINE

PROJECT VICINITY MAP

ISSUED FOR AMENDED TOWN APPROVAL - NOT FOR CONSTRUCTION APRIL 18, 2023

PREPARED BY:



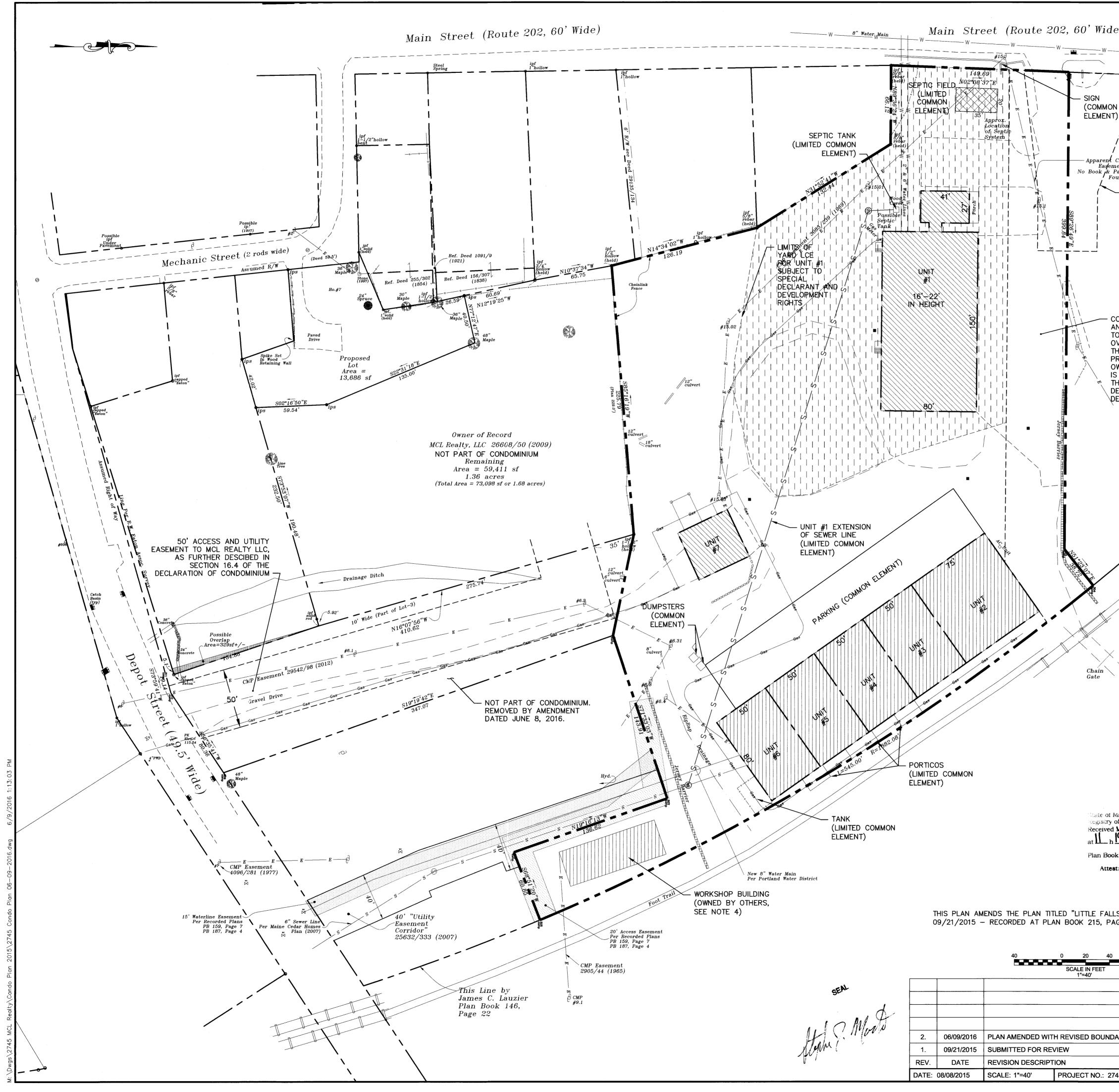
APPLICANT:

PETER ANANIA & SIMON BEYLIN 44 INDIAN ROCK ROAD, SUITE 850 WINDHAM, NH 03087

DEPOT STREET RESIDENTIAL DEVELOPMENT DRAWING SHEET INDEX

PAGE NO. DESCRIPTION

- 1 TITLE SHEET
- AMENDED PLAN LITTLE FALLS INDUSTRIAL CONDOMINIUM PLAT
- 3 SUBDIVISION PLAN
- 4 SITE AND LANDSCAPING PLAN
- 5 GRADING AND UTILITY PLAN
- 6 DETAILS
- 7 DETAILS
- 8 DETAILS



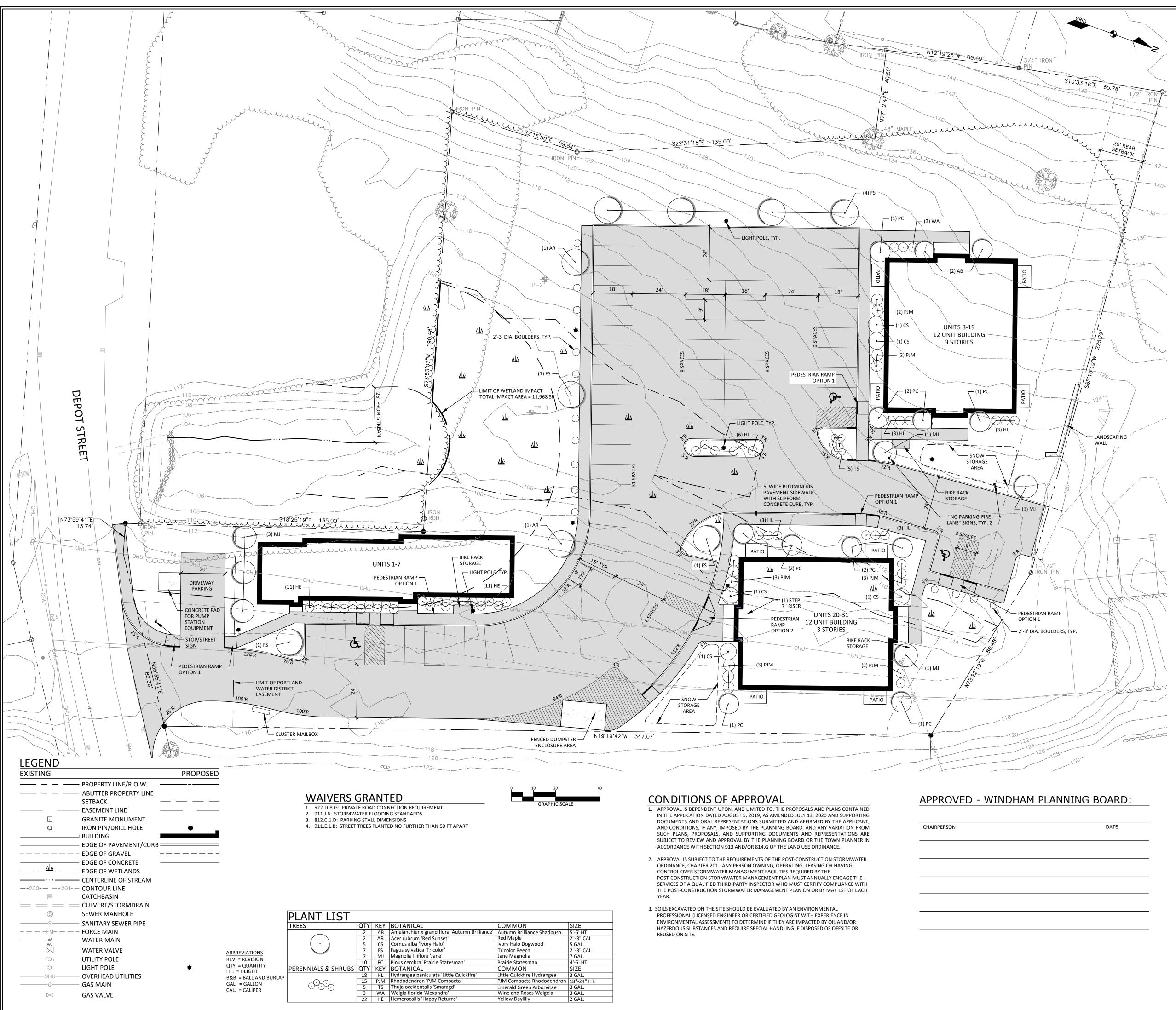
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PROPERTY TO BENEFIT THE PARCEL	——————————————————————————————————————	ELECTRIC UTILITY POLE	
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		STORM DRAIN INLETS CULVERT	
	CHARACTER CONTRACTOR	JERSEY BARRIER	
		WALLS	
/		TREES	
Foot Tree	 BASED UPON INFORMATI TOTAL AREA = 223,546 PLAN REFERENCES PLAN OF LITTLE FALLS, RIGHT OF WAY TRACK M MAINE CENTRAL RAILRO/ TOWN OF WINDHAM ORIG MAINE STATE HIGHWAY 43, PAGE 32 & 34, S.H PLAN OF LAND IN SOUT HASKELL, INC. (1969) R PLAN OF LAND MADE FO IN PLAN BOOK 146, PAGE SUBDIVISION PLAN, LITTL RECORDED IN PLAN BOOG PLAN FOR CHARLES DIC (UNRECORDED PLAN). BOUNDARY SURVEY, MEG ALBERT BRESETTE, (2000) SUBDIVISION PLAN "LITTL CORPORATION, BY NORT PLAN BOOK 205, PAGE MAJOR SUBDIVISION / S CONDOMINIUMS ON DEPORE 	WATER AND GAS LINES AS DEPICTE ON PROVIDED BY THE DECLARANT. SF = 5.13 AC PRESUMPSCOTT RIVER, MAINE RECOM MAP, THE PORTLAND & OGDENSBURG AD CO., JUNE 30, 1916 V16/4. SINAL LAYOUT PLAN BOOK 24, PAGE COMMISSION, RIGHT OF WAY MAP (19 1.C. FILE NO. 3–91. H WINDHAM, MAINE FOR GRINNELL C ECORDED IN PLAN BOOK 81, PAGE 1 OR L.C. ANDREWS, INC., CO. BY JAM GE 22. OT STREET COMMERCIAL CONDOMINIU E ALSO PLAN BOOK 159, PAGE 7. LE FALLS LANDING, BY NORTHEAST (C) CHANIC STREET & DEPOT STREET, W D6) BY R.W. EATON ASSOCIATES (UNI LE FALLS LANDING" MADE FOR SOUT HEAST CIVIL SOLUTIONS, DATED AUG 686. SITE PLAN, AMENDMENT TO VILLAGE OT STREET, WINDHAM, MAINE, MADE 1	RDED IN PLAN BOOK 3, PAGE 24 RAILROAD OPERATED BY THE 13 (1935). 952) RECORDED IN PLAN BOOK OMPANY, INC. BY OWEN 3. ES C. LAUZIER (1985) RECORDED M (1990) RECORDED IN PLAN CIVIL SOLUTIONS (2005) LS DATED JUNE 4, 1997 INDHAM, MAINE MADE FOR RECORDED PLAN). H WINDHAM HOUSING SUST 4, 2005, RECORDED IN AT LITTLE FALLS COLE COURT FOR J & J DEPOT STREET, LLC
	BY WAYNE WOOD & CO.	DATED JUNE 2012, RECORDED IN P ES "SITE PLAN" BY ASSOCIATED DES	LAN BOOK 214, PAGE 108.
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ok <u>210 page</u> 189		TLE FALLS INDUS	KIAL
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		33 MAIN STREET	
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LS INDUSTRIAL CONDOMINIUM" DATED			
AGE 388 ON 09/25/2015.	DE	CLARANT AND RECORD OV	NNER:
		MCL REALTY LLC	
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745 FILE: 2745 Condo Plan 06-09-2016	OHO MAIN ST., SUITE 3, WES	STBROOK, ME 04092 TEL:207-591-7000	WWWW.SIGERMAINCOLLINS.COM



- ORDINANCE, CHAPTER 201. ANY PERSON OWNING, OPERATING, LEASING CONTROL OVER STORMWATER MANAGEMENT FACILITIES REQUIRED BY T POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN MUST ANNUA SERVICES OF A QUALIFIED THIRD-PARTY INSPECTOR WHO MUST CERTIFY THE POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN ON OR BY
- PROFESSIONAL (LICENSED ENGINEER OR CERTIFIED GEOLOGIST WITH EXP ENVIRONMENTAL ASSESSMENT) TO DETERMINE IF THEY ARE IMPACTED B HAZERDOUS SUBSTANCES AND REQUIRE SPECIAL HANDLING IF DISPOSED

, , ,	GENERAL NOTES: 1. THE OWNER OF RECORD OF THE PROPERTY IS GLEDH					
E CODINE CONTRACTOR CONTRACT	 THE OWNER OF RECORD OF THE PROPERTY IS GLEDF RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF TOTAL AREA OF THE PARCEL IS APPROXIMATELY 91,7 PARCEL TAX MAP REFERENCE: TOWN OF WINDHAM 	DEEDS BOOK 38876 PAGE 239. 766 SQUARE FEET (2.1 ACRES).				
/134	 4. PLAN REFERENCES: A) AMENDED PLAN OF LITTLE FALLS INDUSTRIAL (
[™] 65.76' 1/2" IRON- [™] 1/2" IRON- [™] PIN	REALTY LLC, PREPARED BY ST. GERMAIN COLLI COUNTY REGISTRY OF DEEDS PLAN BOOK 216, 5. HORIZONTAL DATUM: MAINE STATE PLANE, WEST Z	NS, RECORDED IN CUMBERLAND PAGE 189.			11174	123
PROPOSED CLEARING LIMITS, TYP. SEE GENERAL NOTE 16	6. VERTICAL DATUM: NORTH AMERICAN VERTICAL DAT7. BOUNDARY AND TOPOGRAPHIC FEATURES SHOWN F	FUM OF 1988 (NAVD88)	MILLI.	HIIII *	C S S S S S S S S S S S S S S S S S S S	4-18-20
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$-\frac{q}{1}$	9. THE PROPERTY IS LOCATED IN THE VILLAGE COMMENTED IN SPACE AND BULK REQUIREMENTS: VC DISTRICT	RCIAL DISTRICT.			Province	
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	11. WETLAND DELINEATION WAS PERFORMED BY MAI AS A RESULT OF THE DEVELOPMENT APPROXIMATI IMPACTED. THE PROJECT IS SUBJECT TO THE NATU TIER 1 WETLAND ALTERATION PERMIT ORDER L-28 ENGINEERS MAINE GENERAL PERMIT NAE-2020-00 A NATURAL RESOURCES PROTECTION ACT PERMIT A PROTECTED NATURAL RESOURCE (PBR #69340).	ELY 11,968 SF OF WETLANDS WILL BE RAL RESOURCES PROTECTION ACT 526-TC-B-N AND US ARMY CORPS OF 604. THE PROJECT IS ALSO SUBJECT TO		ΣΟ	ENGINEER 1116	ME 04062) - 0506
9-132	 12. TOTAL NUMBER OF PARKING SPACES PROVIDED = 1 13. ALL BUILDINGS WILL REQUIRE THE INSTALLATION OF T			ñ	-TING P.O. BOX	WINDHAM, N (207) 310
$\frac{1}{30}$	STORMWATER TREATMENT. 14. CONTRACTOR AND ALL PROPERTY OWNERS ARE RE INSPECTION, MAINTENANCE AND HOUSEKEEPING I	-			ISULT	WIND (20
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19°W 23	 THE CLEARING LIMITS SHOWN ON THIS PLAN SHAL FIVE (5) YEARS FROM THE DATE OF PLANNING BOA WITH SECTION 911.E.1.A OF THE LAND USE ORDIN/ 	RD APPROVAL, AND IN ACCORDANCE				
-124-1 -124-1	17. ALL VEGETATION ON THE NORTH SIDE OF DEPOT S RIGHT-OF-WAY FOR A DISTANCE OF 150 FEET BOTH MUST BE REMOVED AND MAINTAINED TO A HEIGH ACHIEVE ADEQUATE VEHICLE SIGHT DISTANCE. A T TRAFFIC SOLUTIONS INDICATED THAT ADEQUATE S WILL EXIST PROVIDED THE VEGETATION IS REMOVI	I SIDES OF THE DRIVEWAY CENTERLINE IT OF NOT MORE THAN 3 FEET TO RAFFIC SAFETY STUDY CONDUCTED BY IGHT DISTANCE IN EXCESS OF 350 FEET		REVIEW	VIEW	APPROVAL
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	GROSS LAND AREA: DEDUCTIONS:	91,766 S.F.	DES		REVISED PI REVISED PI	AME FOR TOW
N/F LITTLE FALLS INDUSTRIAL CONDOMINIUM MAP. 38 LOT 49B	4. RESOURCE PROTECTION DISTRICT	0 S.F. 0 S.F. 0 S.F. 0 S.F. 11,761 S.F. 0 SF 0 S.F. 0 S.F.	BY	DMR DMR	DMR DMR	DMR ISSUED FOR
	TOTAL NET AREA: REQUIRED NET AREA PER DWELLING: MAXIMUM ALLOWABLE LOTS/DWELLINGS: NUMBER OF LOTS PROPOSED:	80,005 S.F. 2,500 S.F. 32 31		F 6-8-20	G 6-22-20 H 7-29-20	l 4-3-23 J 4-18-23
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SB-1



10N	SIZE
Brilliance Shadbush	5'-6' HT
ble	2"-3" CAL.
lo Dogwood	5 GAL.
Beech	2"-3" CAL.
gnolia	7 GAL.
tatesman	4'-5' HT.
ION	SIZE
ickfire Hydrangea	3 GAL.
npacta Rhododendron	18"-24" HT.
Green Arborvitae	3 GAL.
d Roses Weigela	3 GAL.
Daylilly	2 GAL.

GENERAL NOTES: 1. THE OWNER OF RECORD OF THE PROPERTY IS GLEDHILL INVESTMENT GROUP, LLC BY DEED RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS BOOK 38876 PAGE 239. 2. TOTAL AREA OF THE PARCEL IS APPROXIMATELY 91,766 SQUARE FEET (2.1 ACRES). 3. PARCEL TAX MAP REFERENCE: TOWN OF WINDHAM ASSESSORS MAP 38, LOT 37-A. 4. PLAN REFERENCES: A) AMENDED PLAN OF LITTLE FALLS INDUSTRIAL CONDOMINIUM, PREPARED FOR MCL REALTY LLC, PREPARED BY ST. GERMAIN COLLINS, RECORDED IN CUMBERLAND COUNTY REGISTRY OF DEEDS PLAN BOOK 216, PAGE 189. 5. HORIZONTAL DATUM: MAINE STATE PLANE, WEST ZONE, NAD83, U.S. FEET. 6. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) 7. BOUNDARY AND TOPOGRAPHIC FEATURES SHOWN HEREON IS BASED ON PLAN REFERENCE 4A. 8. TOPOGRAPHIC CONTOURS SHOWN HEREON ARE BASED ON 2 FT LIDAR CONTOURS OBTAINED FROM THE MAINE OFFICE OF GIS. 9. THE PROPERTY IS LOCATED IN THE VILLAGE COMMERCIAL DISTRICT. 10. SPACE AND BULK REQUIREMENTS: VC DISTRICT 5,000 SF (PUBLIC SEWER & WATER) MIN LOT SIZE: MIN STREET FRONTAGE 50 FT MIN FRONT YARD: NONE MIN SIDE YARD: NONE MIN REAR YARD: 20 FT 35 FT MAX BUILDING HEIGHT: MAX BUILDING COVERAGE: NONE

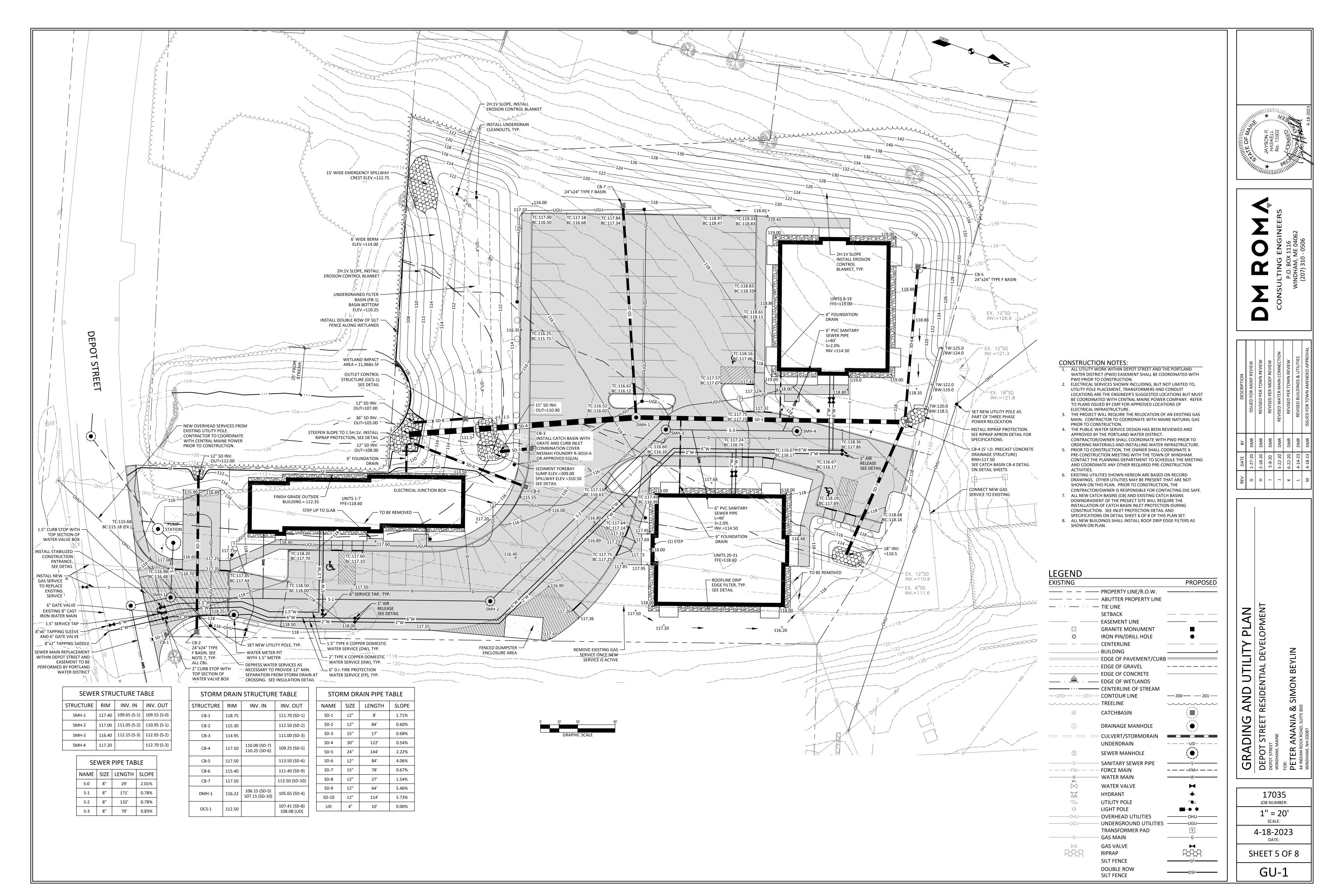
- 11. WETLAND DELINEATION WAS PERFORMED BY MAINELY SOILS, LLC IN SEPTEMBER 2019. AS A RESULT OF THE DEVELOPMENT APPROXIMATELY 11.968 SF OF WETLANDS WILL BE IMPACTED. THE PROJECT IS SUBJECT TO THE NATURAL RESOURCES PROTECTION ACT TIER 1 WETLAND ALTERATION PERMIT ORDER L-28526-TC-B-N AND US ARMY CORPS OF ENGINEERS MAINE GENERAL PERMIT NAE-2020-00604. THE PROJECT IS ALSO SUBJECT TO A NATURAL RESOURCES PROTECTION ACT PERMIT BY RULE FOR ACTIVITIES ADJACENT TO A PROTECTED NATURAL RESOURCE (PBR #69340).
- 12. TOTAL NUMBER OF PARKING SPACES PROVIDED = 65 SPACES 13. ALL BUILDINGS WILL REQUIRE THE INSTALLATION OF A ROOF DRIP EDGE FILTER FOR
- STORMWATER TREATMENT. 14. CONTRACTOR AND ALL PROPERTY OWNERS ARE REQUIRED TO COMPLY WITH THE
- INSPECTION, MAINTENANCE AND HOUSEKEEPING PLAN PREPARED FOR THIS PROJECT.
- 15. THE PROJECT IS SUBJECT TO MDEP STORMWATER MANAGEMENT LAW PERMIT ORDER L-28526-NJ-A-N.
- 16. THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE MAINTAINED FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF PLANNING BOARD APPROVAL, AND IN ACCORDANCE WITH SECTION 911.E.1.A OF THE LAND USE ORDINANCE.
- 17. ALL VEGETATION ON THE NORTH SIDE OF DEPOT STREET AND WITHIN THE DEPOT STREET RIGHT-OF-WAY FOR A DISTANCE OF 150 FEET BOTH SIDES OF THE DRIVEWAY CENTERLINE MUST BE REMOVED AND MAINTAINED TO A HEIGHT OF NOT MORE THAN 3 FEET TO ACHIEVE ADEQUATE VEHICLE SIGHT DISTANCE. A TRAFFIC SAFETY STUDY CONDUCTED BY TRAFFIC SOLUTIONS INDICATED THAT ADEQUATE SIGHT DISTANCE IN EXCESS OF 350 FEET WILL EXIST PROVIDED THE VEGETATION IS REMOVED.

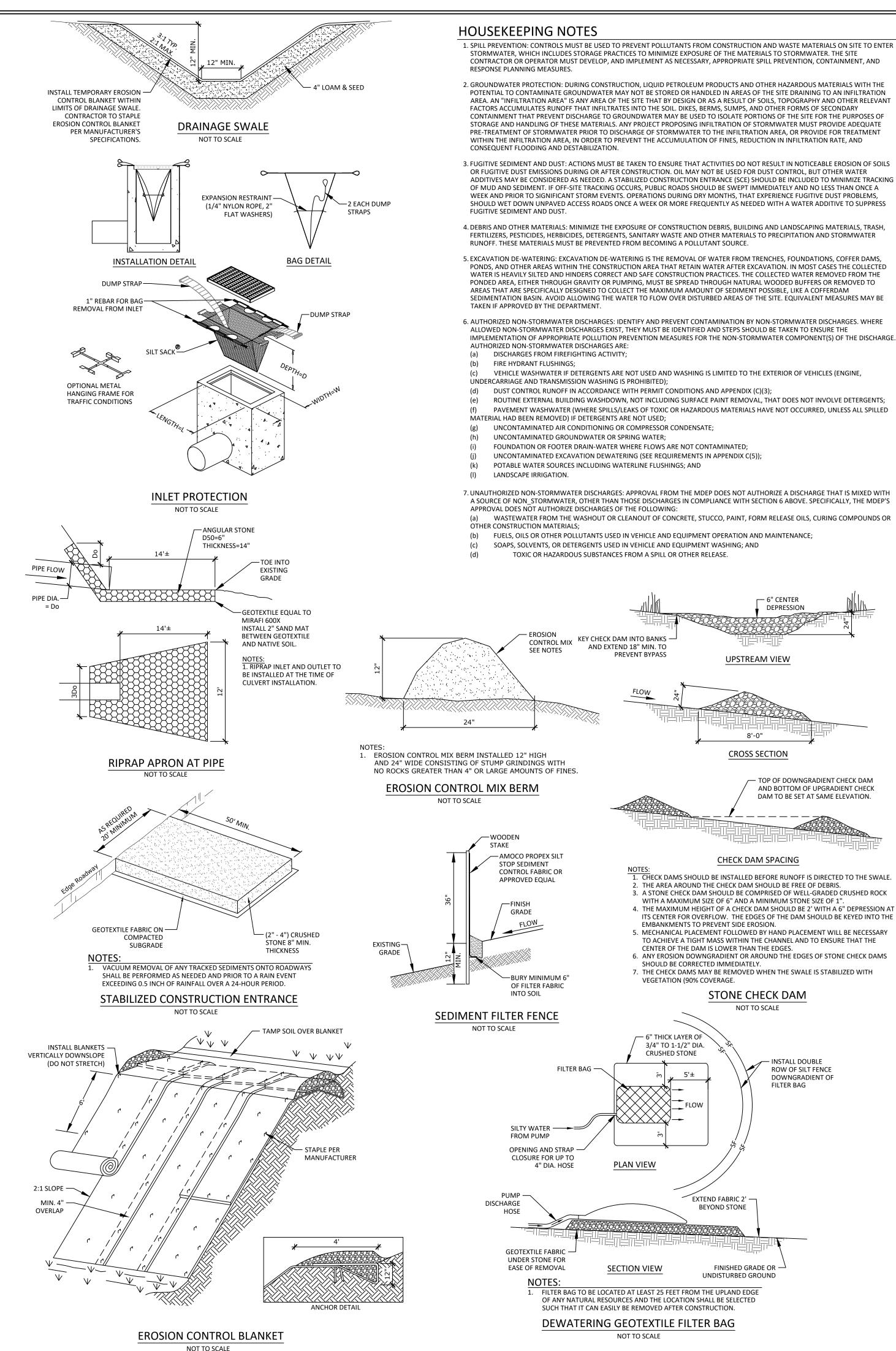
PLANTING NOTES:

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING PLANT PITS.
- 2. ALL MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 3. IN THE CASE OF ANY DISCREPANCIES BETWEEN SPECIES AND QUANTITIES CALLED OUT IN THE PLANTING KEY AND THOSE SHOWN ON THE PLAN, QUANTITIES AND SPECIES SHOWN ON THE PLAN SHALL OVER-RIDE.
- 4. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES.
- ALL PLANTS SUBJECT TO APPROVAL BY LANDSCAPE DESIGNER. ALL SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL BY LANDSCAPE DESIGNER PRIOR TO ORDERING OR DELIVERY OF PLANT MATERIAL ON SITE. LANDSCAPE DESIGNER RESERVES THE RIGHT TO REJECT ANY PLANTINGS THAT DO NOT CONFORM TO THE DRAWINGS OR SPECIFICATIONS OUTLINED HEREIN.
- 6. LANDSCAPE DESIGNER SHALL APPROVE FINAL PLACEMENT OF ALL PLANT MATERIALS AND RESERVES THE RIGHT TO MAKE FIELD ADJUSTMENTS TO PLANTINGS AS NECESSARY.
- 7. EXISTING TREES TO REMAIN SHALL BE PROTECTED BY PVC FENCING PLACED AT THE DRIP-LINE OR AS SHOWN ON THE PLANS TO PREVENT DAMAGE AND COMPACTION OF THE ROOT SYSTEM. NO GRADING, SOIL DISTURBANCE, OR STORAGE OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN THE DRIP-LINE UNLESS OTHERWISE SHOWN ON PLANS. ANY EXCAVATION WITHIN SUCH AREAS SHALL BE PERFORMED BY HAND TO AVOID DAMAGE OF THE ROOT SYSTEM.
- 8. CONTRACTOR SHALL REFER TO GRADING AND UTILITY PLAN FOR SLOPE STABILIZATION
- 9. FINISH GRADE OF PLANTINGS SHALL MATCH ADJACENT FINISH GRADES UNLESS OTHERWISE NOTED ON DRAWINGS OR DIRECTED AND/OR APPROVED BY THE LANDSCAPE DESIGNER.
- 10. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE LANDSCAPE DESIGNER OR OWNER'S REPRESENTATIVE.
- 11. ALL PLANTS SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
- 12. ALL PLANTINGS SHALL BE TOPPED WITH A MINIMUM OF 3" OF WELL COMPOSTED, DARK PINE BARK MULCH.
- 13. DISTURBED AREAS SHALL BE SEEDED WITH PARK MIX OR AS APPROVED. SEEDING AREAS SHALL BE LIGHTLY MULCHED WITH A LAYER OF CLEAN, WEED-FREE STRAW. 14. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD
- AFTER PLANTING. ALL PLANTS SHALL BE WATERED AS REQUIRED THEREAFTER TO ENSURE SURVIVAL AND OPTIMAL GROWTH THROUGH THE FIRST GROWING SEASON.
- 15. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS.
- 16. ALL PLANTING BEDS SHALL HAVE 18" MINIMUM DEPTH OF TOPSOIL.
- 17. ALL PLANTING BEDS ARE TO REMAIN FREE OF WEEDS DURING THE 1 YEAR GUARANTEE
- 18. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE DESIGNER PRIOR TO AND AFTER PLANTING.
- 19. PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE DESIGNER.
- 20. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
- 21. PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF INSTALLATION. DURING THE ONE YEAR GUARANTEE, THE CONTRACTOR SHALL REPLACE, IN KIND, ANY DEAD, DISEASED, OR SUBSTANDARD PLANT MATERIAL AT NO COST TO THE OWNER. THE CONTRACTOR SHALL RECEIVE FINAL ACCEPTANCE FROM THE OWNER FOLLOWING THE ONE YEAR GUARANTEE, PROVIDED THE PROVISIONS OF THE PLANT GUARANTEE HAVE BEEN SATISFACTORILY MET.
- 22. STREET TREES SHALL BE A MINIMUM OF 2" CALIPER AND 6' TALL AT TIME OF PLANTING.

	REV	DATE BY	DESCRIPTION
	D	4-28-20 DMR	REVISED PER MDEP REVIEW
ET RESIDENTIAL DEVELOPMENT	E	5-8-20 DMR	REVISED PER MDEP REVIEW
	F 6	6-8-20 DMR	REVISED PER TOWN REVIEW
	9	6-22-20 DMR	REVISED PER TOWN REVIEW
	H 3	3-6-23 DMR	REVISED BUILDINGS AND WALKWAYS
FETER ANAINIA & SIIVION BETLIN 44 INDIAN ROCK ROAD. SUITE 850		4-3-23 DMR	AMENDED PLAN
	ل 4-	4-18-23 DMR	ISSUED FOR TOWN AMENDED APPROVAL

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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 OPEN DRAINAGE CHANNELS, SWALES, STREAM CHANNELS OR STREAM BANKS, UPLAND, OR COASTAL OR FRESHWATER WETLANDS OFF 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. ALL 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 OR 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. ERISION 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 SEEDBED. THE CONTRACTOR SHALL APPLY FERTILIZER AT A RATE OF 600 POUNDS PER ACRE OF 10-10-10 (N-P205-K20) OR FOUNDALENT 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:

RECOMMENDED SEEDING DATES LB. PER ACR WINTER RYE 112 8/15 - 10/1 4/1 - 7/1 8/15 - 9/15 OATS 80 ANNUAL RYEGRASS 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 MANUFACTURERS 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 POST 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 BURIAL.

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 SPRING THAW AND RAINS. 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 IF 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 REPLACE THE BARRIER WITH A SEDIMENT BASIN OR OTHER ONSITE STORAGE UPGRADIENT OF THE SEDIMENT BARRIER. SEDIMENT SHALL BE REMOVED ONCE 3. MULCHING 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.

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

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 BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED 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 VACUUM PAVEMENT AT EXITS THAT HAVE EXPERIENCED 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 ANY MUD-TRACKING PRIOR TO THE NEXT STORM EVENT. MAINTAIN THE PAD UNTIL ALL DISTURBED AREAS ARE STABILIZED.

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 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 EROSION, SLIPPAGE, 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 SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

4. SOIL STOCKPILING

CONDITIONS.

5. SEEDING

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 FITHER 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.

9. MAINTENANCE MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM, PERIOD OF FHAWING 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 85% OF AREAS VEGETATED WITH VIGOROUS GROWTH.

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 WEEKS. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED 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 NDERLYING SOIL, BUT UNDUE COMPACTION IS TO BE AVOIDED.

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 SEEDBED, 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 USDA SOIL CONSERVATION SERVICE OR 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 SUPPLIERS 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 AROUND 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 OUARRY 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 MDOT 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 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.

11. INSPECTION & MAINTENANCE

8. TOPSOI

. PERMANENT SOIL STABILIZATION

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, AND CONSTRUCTION VEHICLE ENTRANCE(S) AND OR EXIT(S). THESE AREAS SHALL BE INSPECTED AT LEAST ONCE PER WEEK, AS WELL AS 24 HOURS BEFORE AND AFTER A STORM EVENT PRODUCING MORE THAN 0.5 INCH OF RAIN WITHIN A 24-HOUR PERIOD, AND PRIOR TO COMPLETING PERMANENT STABILIZATION MEASURES. INSPECTIONS ARE TO BE CONDUCTED BY A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING STANDARDS AND CONDITIONS IN THE PERMIT. INSPECTION LOGS ARE TO BE AVAILABLE ON-SITE DURING CONSTRUCTION AND RETAINED FOR AT LEAST THREE YEARS AFTER THE COMPLETION OF PERMANENT STABILIZATION

MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF. 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 85% OF

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 LOAMED. SEEDED AND MULCHED. A COVER OF EROSION CONTROL MIX IS THE PREFERRED TEMPORARY MULCH DURING WINTER

1. NATURAL RESOURCE PROTECTION

AREAS VEGETATED WITH VIGOROUS GROWTH.

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

. 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.

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 FACH 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 1ST, MULCH AND ANCHORING OF ALL EXPOSED SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORKDAY.

STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RAT EOR 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.

AREAS SHALL BE FINE GRADED AND EITHER PROTECTED 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 LOOMED, 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 (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 SOD 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 PRIOR TO NOVEMBER 1.

8. OVER-WINTER STABILIZATION OF DISTURBED SOILS

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.

REV DATE BY	A 11-18-19 DMR ISSUED FO	DT STREET RESIDENTIAL DEVELOPMENT	C 2-18-20 DMR	D 4-28-20 DMR F		F 6-22-20 DMR	G 4-18-23 DMR ISSUED
DESCRIPTION	11-18-19 DMR ISSUED FOR PRELIMINARY SUBDIVISION REVIEW		REVISED PER TOWN REVIEW	REVISED PER MDEP REVIEW CONSULTING ENGINEERS	REVISED PER MDEP REVIEW P.O. BOX 1116	REVISED PER TOWN REVIEW WINDHAM, ME 04062	ISSUED FOR TOWN AMENDED APPROVAL

