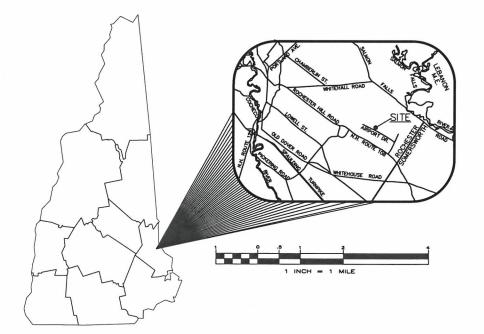


PROPOSED MANUFACTURING FACILITY

FOR

LDI SOLUTIONS, LLC 145 AIRPORT DRIVE ROCHESTER, N.H. 03867 AUGUST 2020







CIVIL ENGINEERS

NORWAY PLAINS ASSOCIATES, INC. 2 CONTINENTAL BOULEVARD ROCHESTER, NEW HAMPSHIRE 03867 (603) 335-3948 CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE (SCOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITI IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET. PLASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335—3948.

OWNER OF RECORD

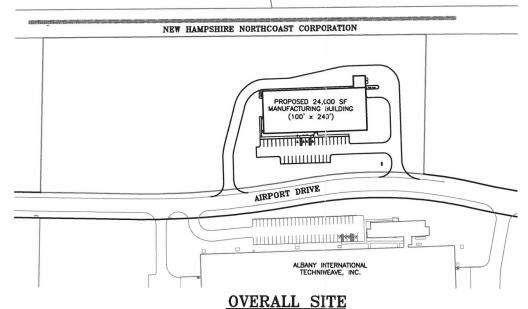
LDI SOLUTIONS, LLC 3560 LAFAYETTE ROAD PORTSMOUTH, NEW HAMPSHIRE 03801 (603) 436-0077

LANDSCAPING ARCHITECTS

WOODBURN & COMPANY LANDSCAPE ARCHITECTURE, LLC 103 KENT PLACE NEWMARKET, NEW HAMPSHIRE 03857 (603) 659-5949

APPLICANT

LDI SOLUTIONS, LLC 3560 LAFAYETTE ROAD PORTSMOUTH, NEW HAMPSHIRE 03801 (603) 436-0077



1" = 100'

STATE AND FEDERAL PERMITS:

HDES ALTERATION OF TERRA

NHDES WETLANDS PERMIT:

IDES DAM PERMIT: IDES SUBDIVISION PERMIT:

NHDES SUBSURFACE SYSTEMS PERMIT: NHDES WASTEWATER PERMIT: NHDOT DRIVEWAY/ENTRANCE PERMIT:

ATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES):
NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED ARE
CRITERIA BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE
SITE TO AN ADJACENT WETJAND OR WATER BODY (I.E. CULVERT, SWALE, ETC.
OUTLETING TO A WETJAND, CREEK. STREAM OR RIVER)

S PERMIT:

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NO!) FILED WITH THE ENVIRONMENTAL PROTECTION ACENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR

FINAL APPROVAL BY ROCHESTER PLANNING BOARD

	SHEET	C-1	OVERALL SITE PLAN	1" = 60'	
	SHEET	C-2	SITE LAYOUT PLAN	1" = 40'	
	SHEET	C-3	GRADING AND DRAINAGE PLAN	1" = 40'	
- 1	SHEET	C-4	UTILITY PLAN	1" = 40'	
- 1	SHEET	C-5	EROSION AND SEDIMENTATION CONTROL PLAN	1" = 40'	
- 1	SHEET	C-6	CONSTRUCTION DETAILS	AS SHOWN	
- 1	SHEET	C-7	DRAINAGE DETAILS	AS SHOWN	
- 1	SHEET	C-8	GRAVEL WETLANDS BASIN DETAILS	AS SHOWN	
- 1	SHEET	C-9	TEMPORARY EROSION AND SEDIMENTATION	AS SHOWN	
- 1			CONTROL DETAILS		
- 1	SHEET	C-10	PERMANENT EROSION AND SEDIMENTATION	AS SHOWN	
- 1			CONTROL DETAILS		
- 1	SHEET	C-11	UTILITY DETAILS	AS SHOWN	
- 1	SHEET	C-12	SEWER DETAILS	AS SHOWN	
- 1	SHEET	L-1	LANDSCAPING PLAN AND DETAILS	1" = 40'	
- 1	SHEET	L-2	LIGHTING PLAN AND DETAILS	1" = 40'	
ι					

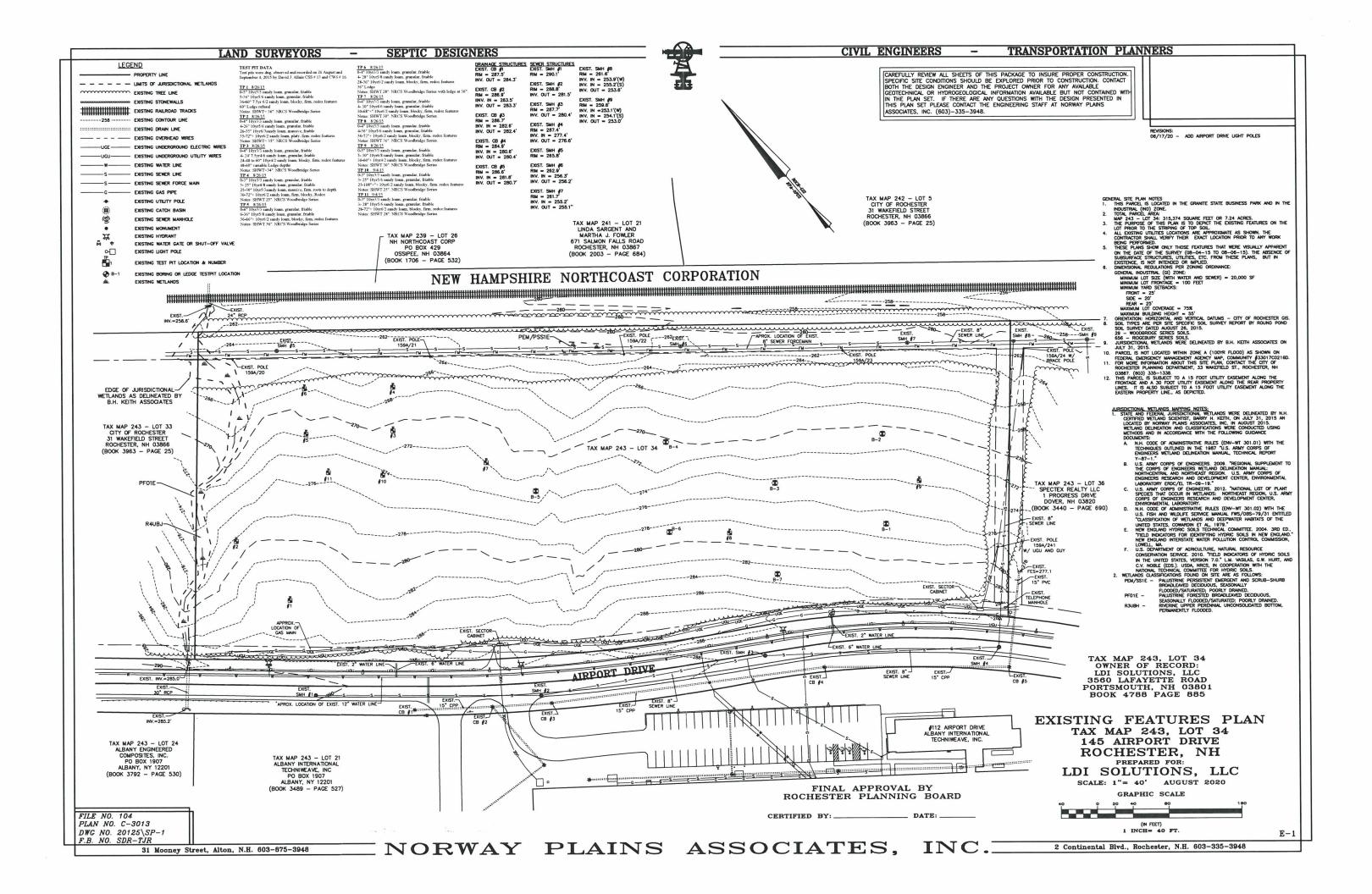
SHEET INDEX

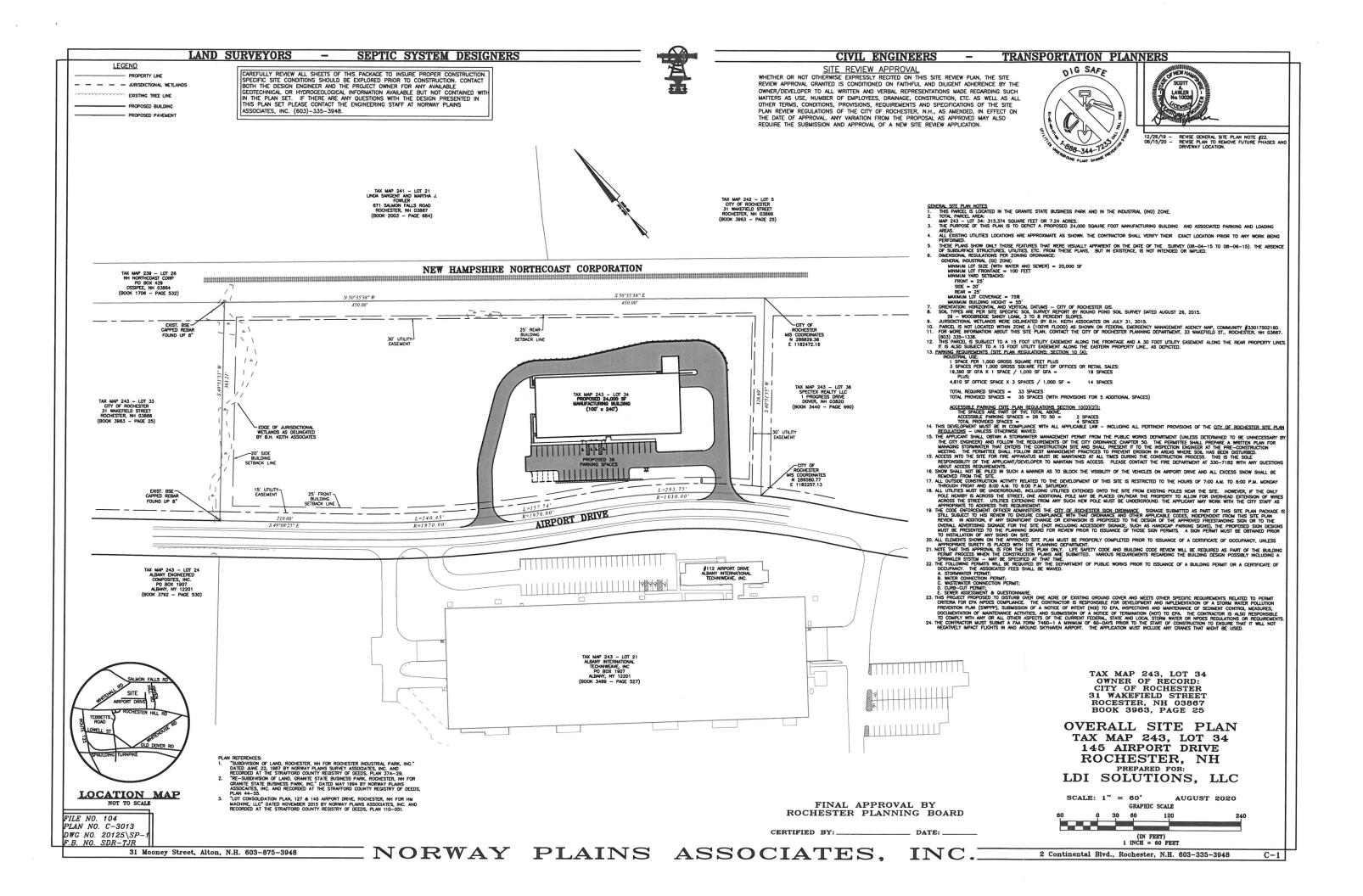
FILE NO. 104
PLAN NO. C-3013
DWG NO. 20125\SPF.B. NO. SDR-TJR

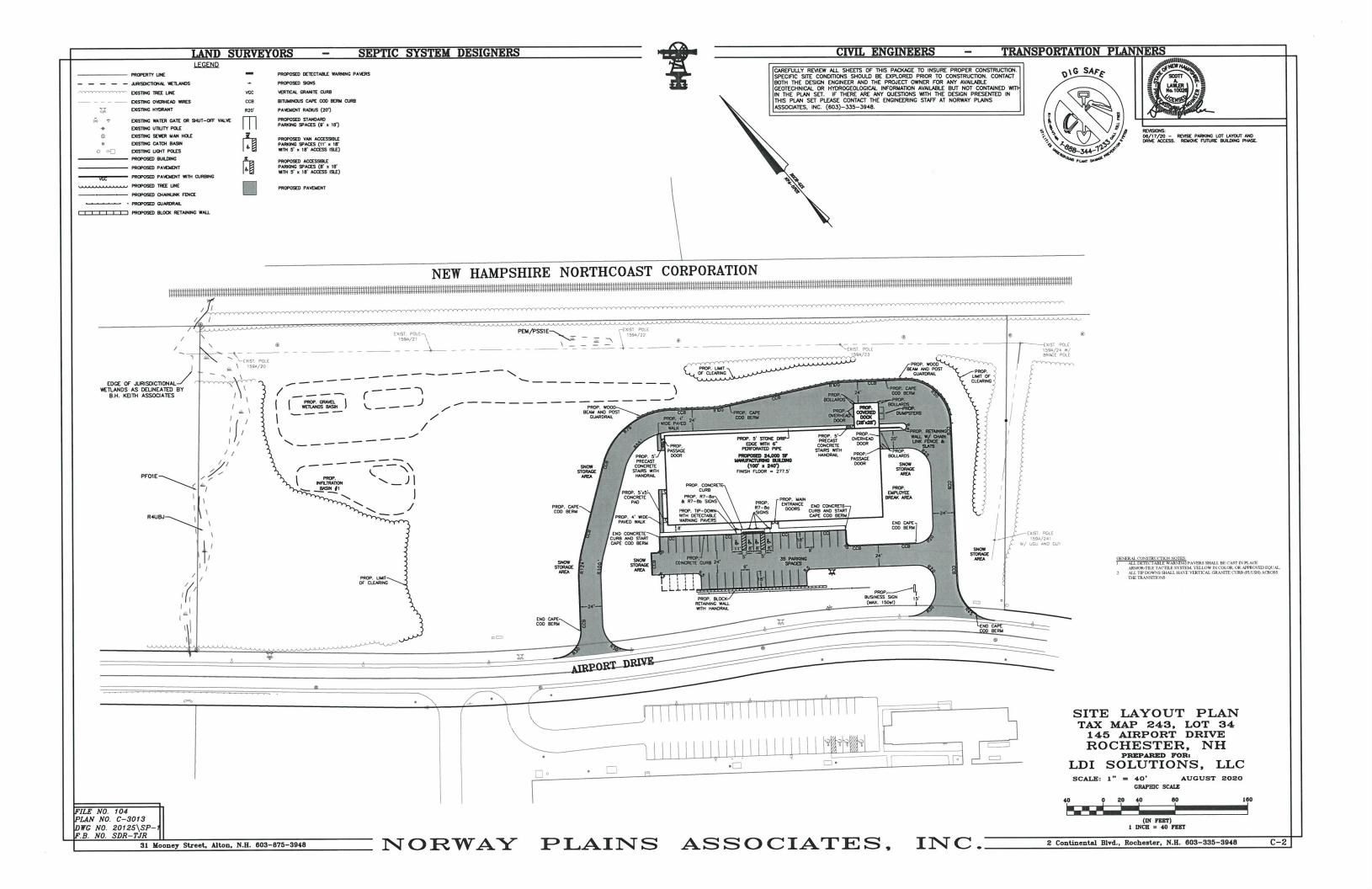
31 Mooney Street, Alton, N.H. 603-875-3948

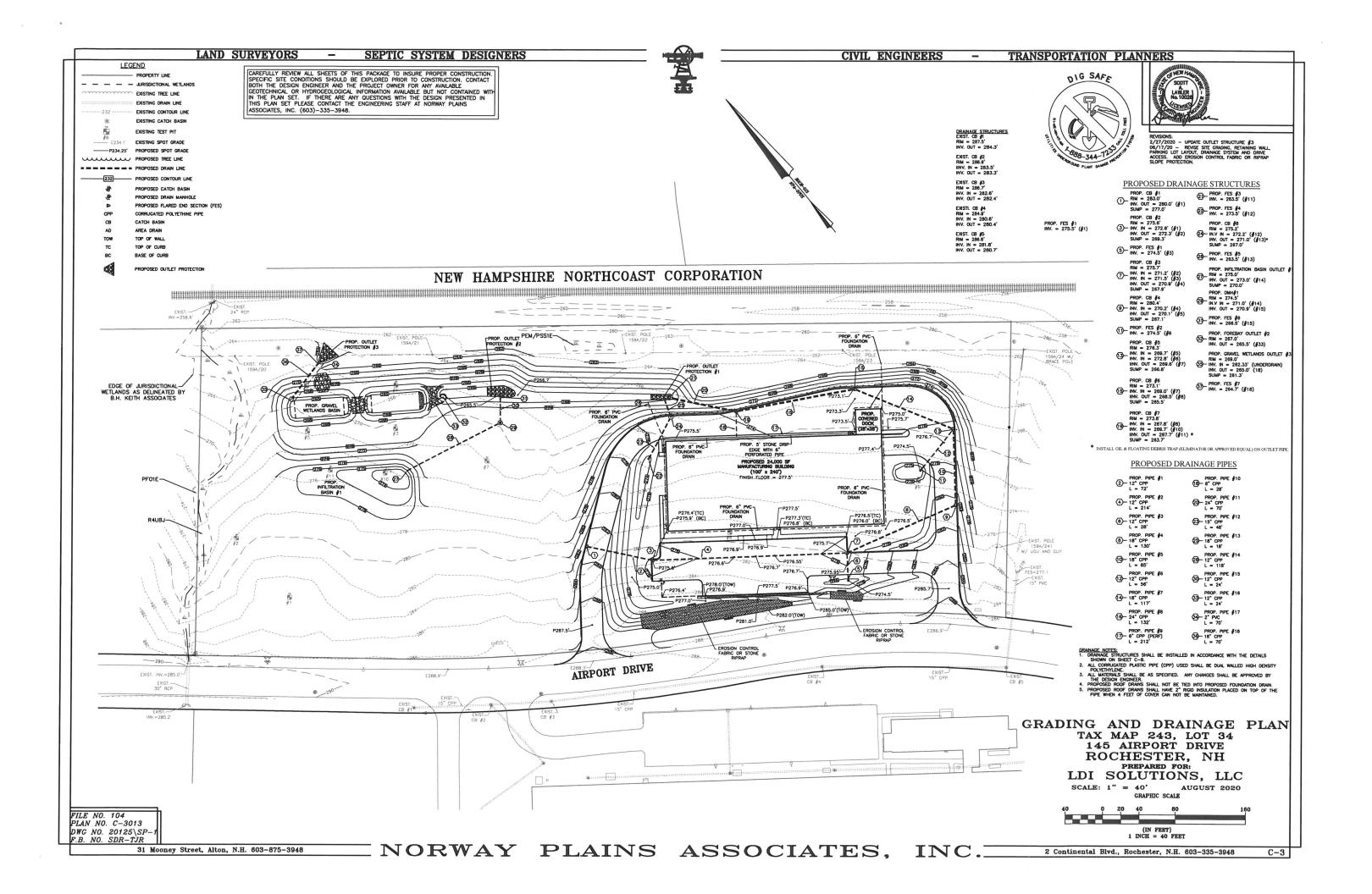
NORWAY PLAINS ASSOCIATES, INC

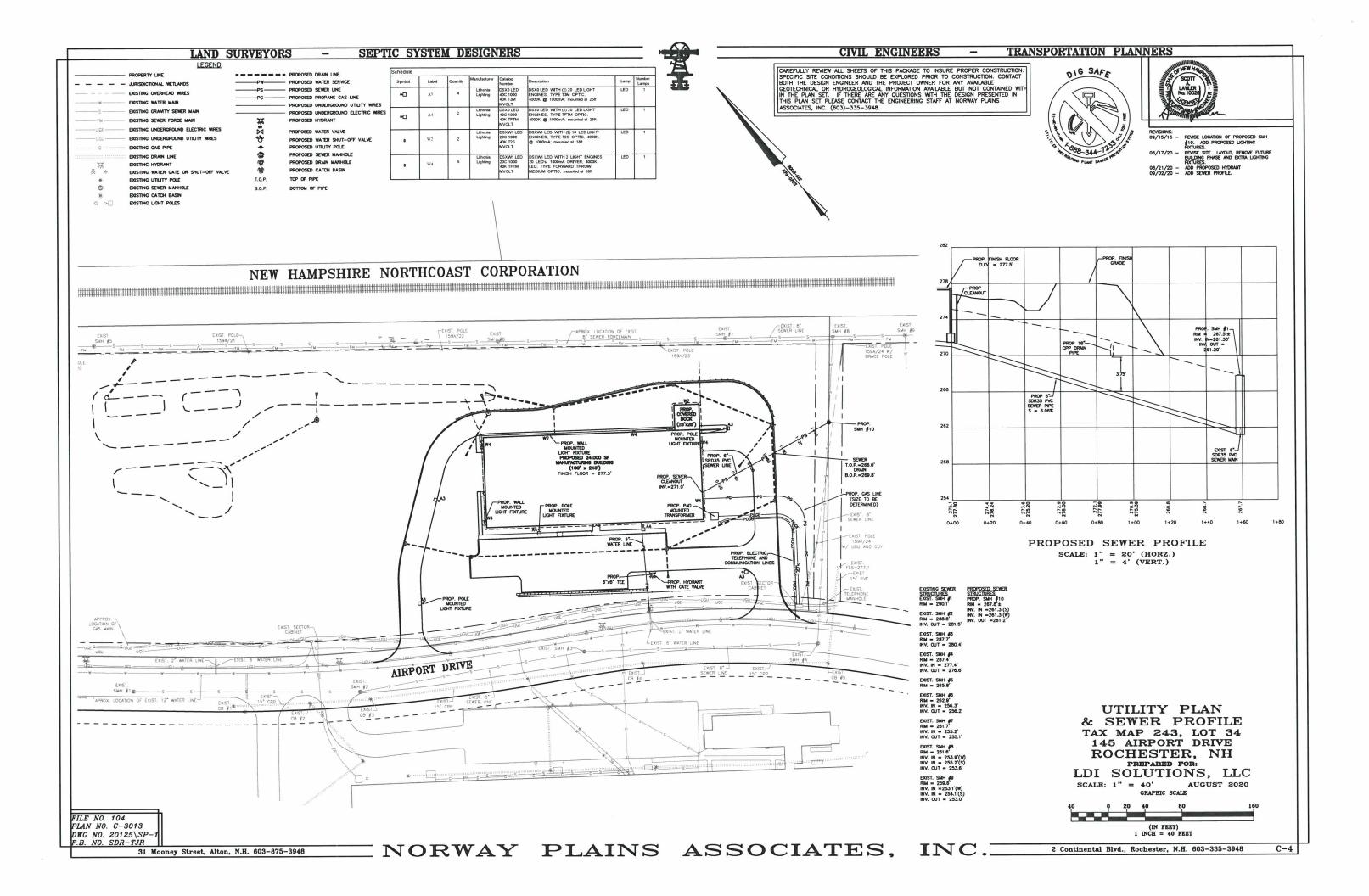
2 Continental Blvd., Rochester, N.H. 603-335-3948

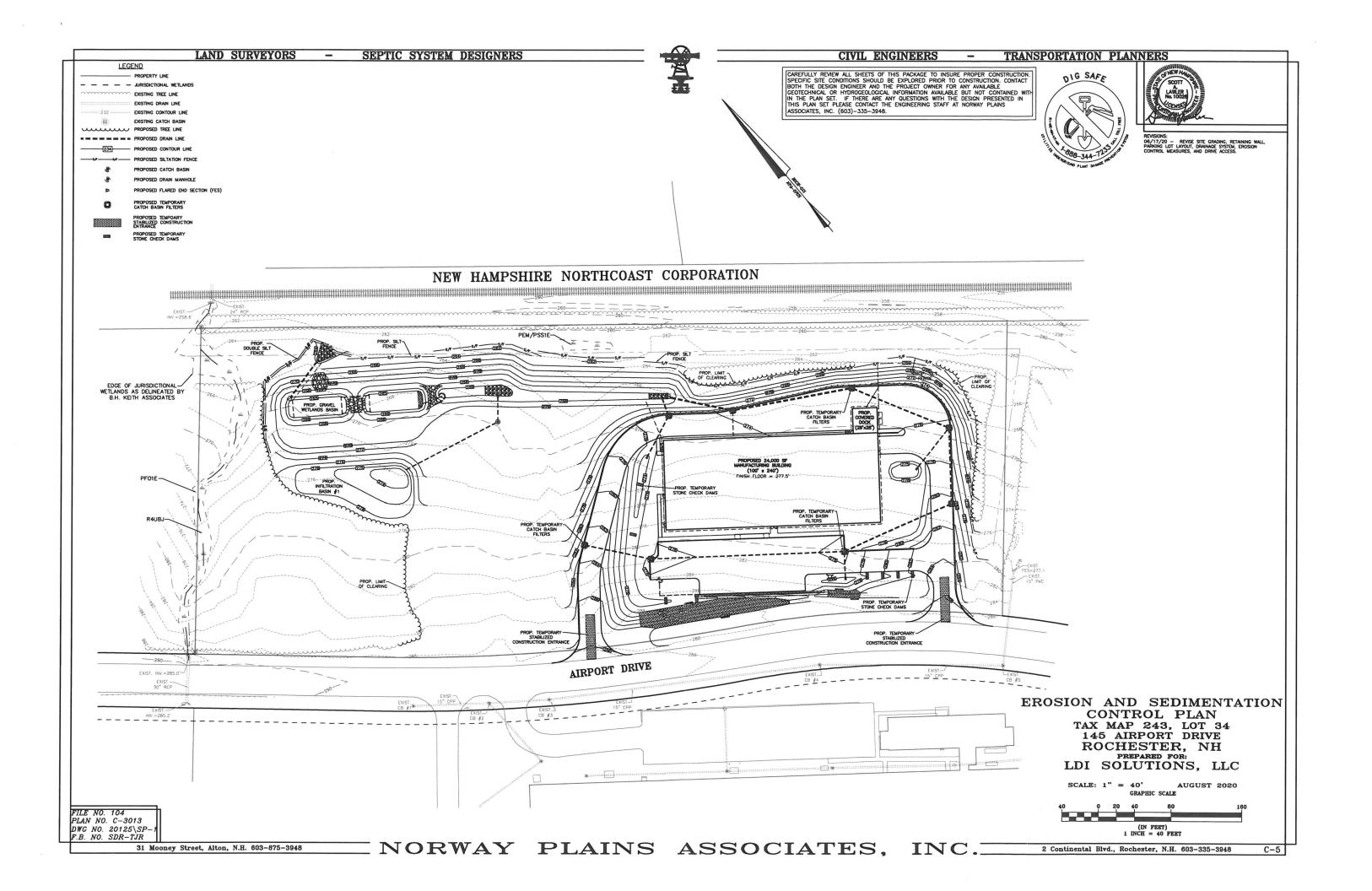


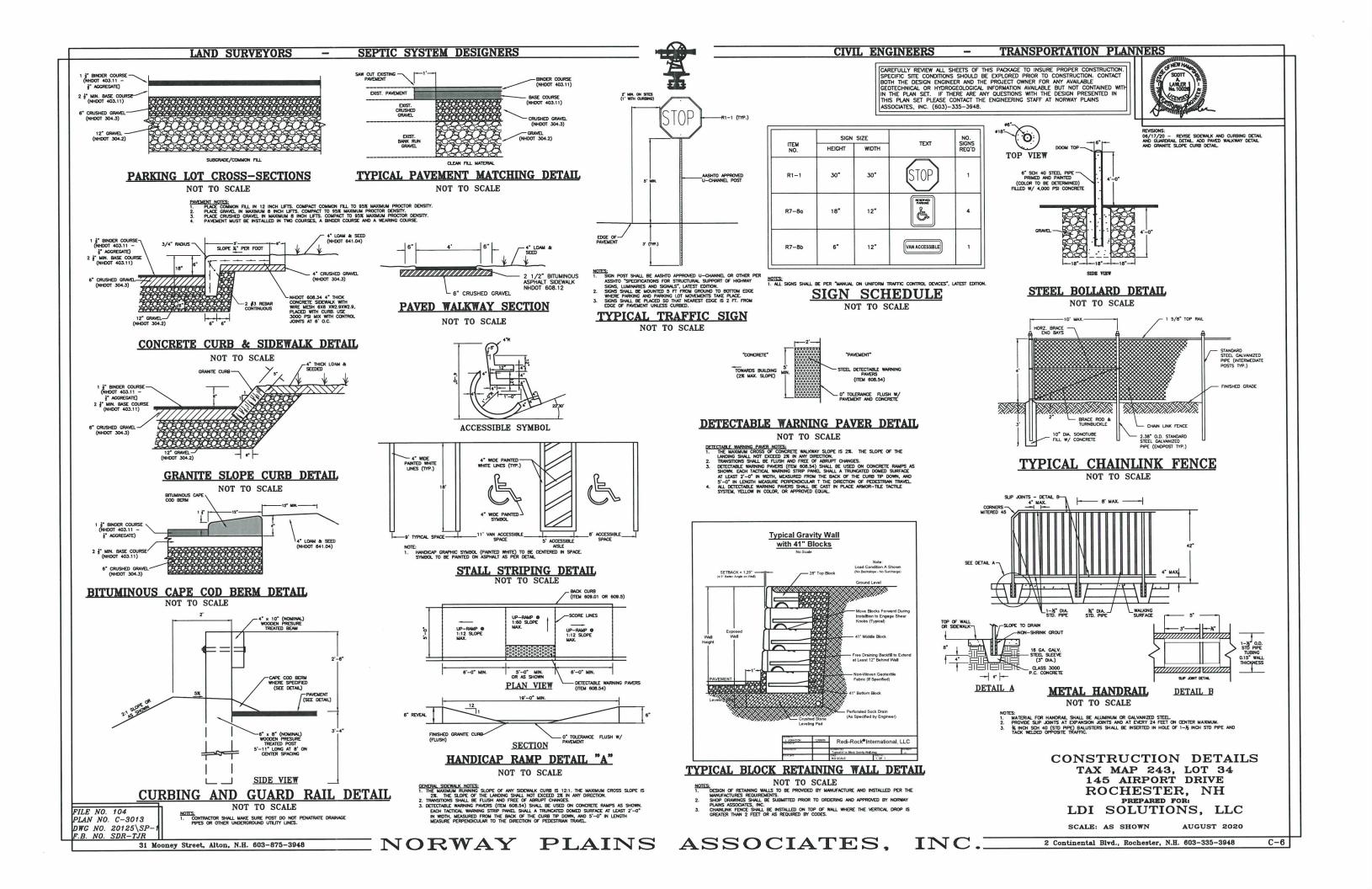


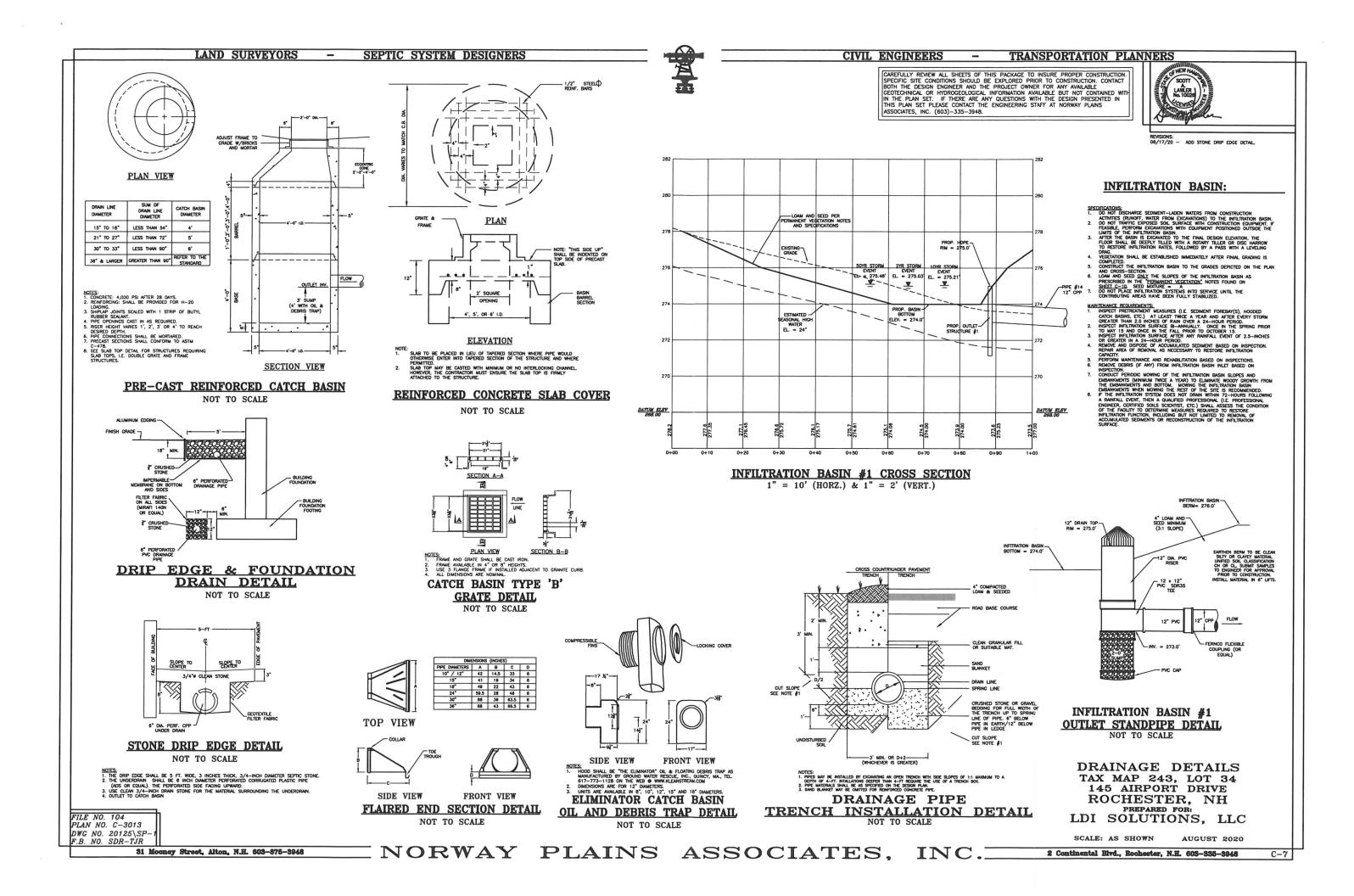


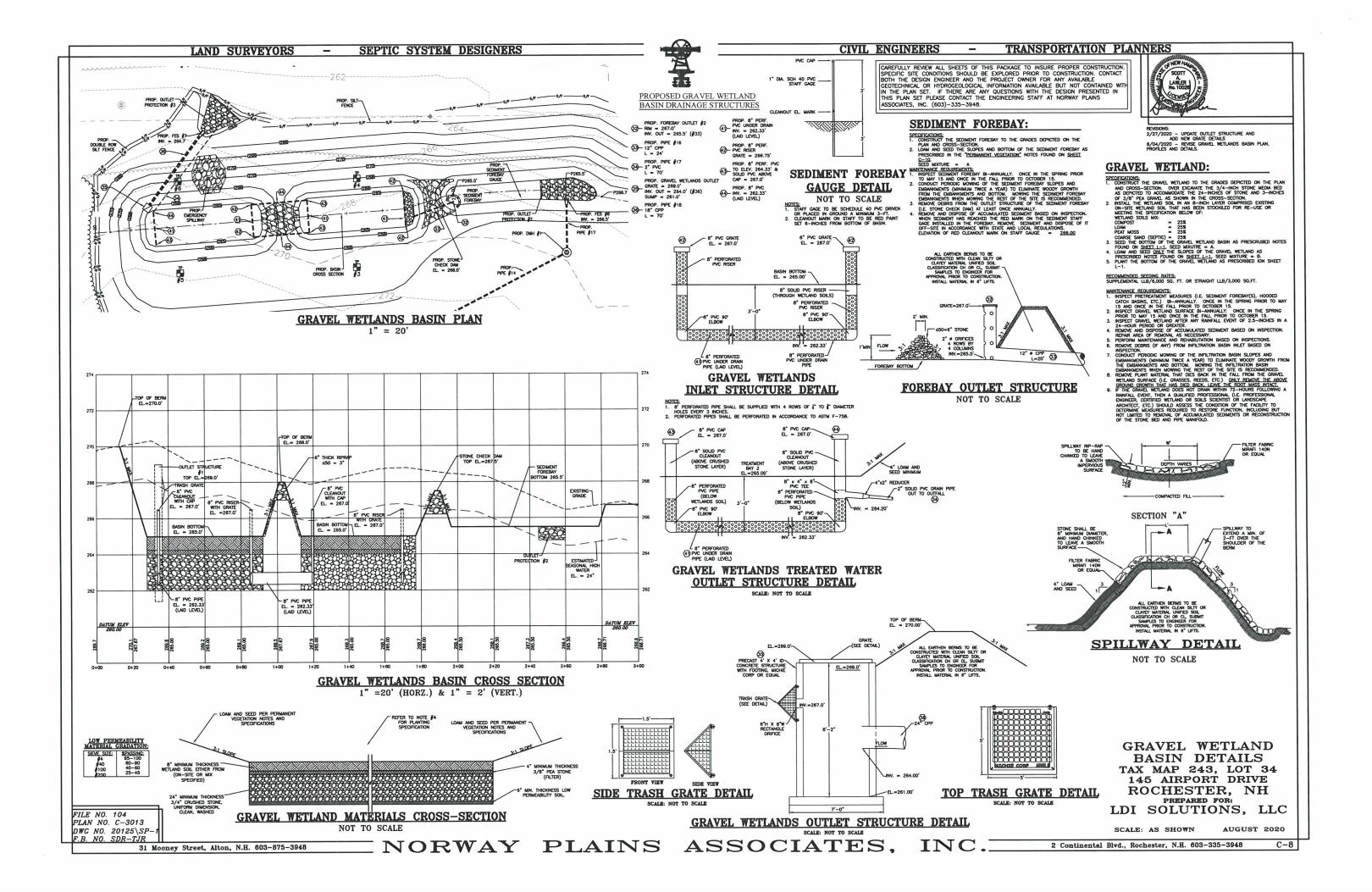












SLOPE INSTALLATION

<u>itenance requirements;</u> All blanket and mats shall be inspected weekly during the construction period, and after any rainfall event EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.

ANY FAULURE SHALL BE REPAIRED BIMEDIATELY, IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESERVED, AND THE AFFECTED AREA OF MAT SHALL BE REPAIRED AND RESERVED, AND THE AFFECTED AREA OF MAT SHALL BE REPAIRED AND RESERVED.

- HE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESECTED, AND THE AFFECTED AREA OF MAT SHALL BE "E-INSTALLED."

 HELPINATIALED.

 RUCTION, SEPCEPCADIONS:

 AND THE AFFECTED AREA OF MAT SHALL BE REPAIRED AND RESECTED, AND THE AFFECTED AREA OF MAT SHALL BE RUCTION.

 PREPAIRE SOIL BEFORE INSTALLING NO SEED.

 PREPAIRE SOIL BEFORE INSTALLING NO SEED.

 NOTE: WHEN USING: CELL—O-SEED DO NOT SEED PREPAIRED AREA. CELL—O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

 BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 8" (15 CM) WIDE TRENCH HITH APPROXIMATELY 12" (30-CM) PAPER SIDE DOWN.

 BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 8" (15 CM) WIDE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APPAT ACROSS THE WIDTH AND COMPACTED SOIL. AND FOLD REMAINING 12" (30 CM) PORTION OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APPAT ACROSS THE WIDTH OF THE RECP'S.

 ROLL THE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.

 ROLL THE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.

 ROLL THE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APPROPRIATE SIDE ACAINST THE SUI SUPPROXIMATELY 12" (30 CM) APPROVED THE SIDE ACAINST THE SUI SUPPROXIMATELY 12" (30 CM) APPROVED THE SIDE ACAINST THE SUI SUPPROXIMATELY 12" (30 CM) APPROVED THE SUPPROXIMATELY 2" 5" (5 CM 12.5 CM)

- CONRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

 THE EDGES OF PARALLE RECP's MUST BE STAPLED WITH APPROXIMATELY 2" 5" (5 CM 12.5 CM)

 OVERLAP DEPENDING ON RECP's TYPE.

 CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN

 APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART

 ACROSS ENTIRE RECP'S MIDTH.

 NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAVE LENGTHS GREATER THAN 6" (15 CM) MAY

 BE NECESSARY TO PROPERLY SECURE THE RECP'S.
- BE NECESSARY TO PROPERLY SECURE THE NEW #.

 PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL CRUZ, AND SHAPE AREA IF INSTALLATION.

 CRUZ, AND SHAPE AREA IF INSTALLATION.

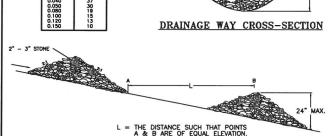
 CRUZ, AND SHAPE AREA IF INSTALLATION.

 THE SOIL EXPERIENCE TO THE INSTALLATION OF OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL DIRECT CONTACT WITH THE SOIL PREPARE SEEDED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.

 INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING
- EDING:
 SED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT
 SED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING PRIOR TO BLANKET
 SED AREA BEFORE BLANKET INSTALLATION. SEEDING PRIOR TO BLANKET
 SED AREA BEFORE BLANKET INSTALLATION. MUST BE RESEDED.

 THE SED ALMOST ALL STEED AND OTHER WINDOW AND PELEVISION PRIOR BEFORE BLANKET ALLATION AND
 TO FILL A SECOND SE

NOT TO SCALE



SPACING BETWEEN STONE CHECK DAMS

- CONSTRUCTION SPECIFICATIONS:

 STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
- APPROPRIATE SPACING.

 CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION, AIR AND WATER POLLUTION WILL BE MININIZED.

 STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

- MANTENANCE NOTES:

 1. TEMPORARY GRUDE STABILIZATION STRUCTURES SHALL BE INSPECTED AFTER EACH STORM AND DAILY DEMOCRACY CONGED STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPARED MINEDITY.

 2. PARTICULAR ATTENTON SHALL BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE.

 3. WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED.

 4. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE STRUCTURE.

STONE CHECK DAM INSTALLATION DETAIL

NOT TO SCALE

31 Mooney Street, Alton, N.H. 603-875-3948

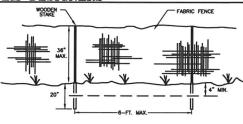
PIAN NO C-3013 DWG NO. 20125\SP-B. NO. SDR-TJR

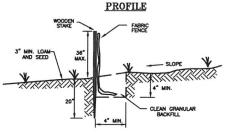
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SPACING BETWEEN CHECK DAMS SLOPE (FT/FT)

LENGTH (FT)

SEPTIC SYSTEM DESIGNERS





CROSS-SECTION

ANTENANCE REQUIREMENTS:

EDICES SHALL BE INSCRITED AND MUNTAHED INJUSTATELY PIETE LOSS PARIFIEL AND AT LEAST DALY DURING PROLONGED RAINFALLS:

EDICES SHALL BE INSCRITED AND MUNTAHED INJUSTATELY PIETE LOSS PARIFIEL AND AT LEAST DALY DURING PROLONGED RAINFALLS:

TO AN APPROPRIATE LOCATION SO THE SEDIENT IS NOT RECOLUT THANSPROTTED BACK TOWARD THE SLIT FINE.

SILT FENCES SHALL BE REPARED IMMEDIATELY IF THERE ARE ANY SIGNS OF ENGSION OR SEDIMENTATION BELOW THAN SEDIENT BARRIERS

SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SLIT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE PREPARED AND SEEDED.

IF THERE IS EVIDENCE OF END FLOW ON PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SIGN AS TEMPORARY DEPOSIONS ON SEDIMENT TRAPS.

RESULTED TO MAINTAIN EFFECTIVENESS.

REQUIRED TO MAINTAIN EFFECTIVENESS.

CONSTRUCTION SPECIFICATIONS:

1. FENCES SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE FENCE. SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTION DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN I ACRE PER 100 LINEAR FEET OF FENCE;

1. THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN I ACRE PER 100 LINEAR FEET OF FENCE;

2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN I ACRE PER 100 LINEAR FEET OF FENCE;

3. FENCES SHALL BE INSTALLED FOLLOWING THE CONTROLR OF THE LAND AS CLOSELY AS POSSIBLE, AND A. THE EMOS OF THE FENCE SHALL BE LOTHOUR OF THE LAND AS CLOSELY AS POSSIBLE, AND A. THE FARRIC SHALL BE EMBEDDED A MINIMUM OF 4 INCHES IN DEPTH AND INCHES IN WIDTH IN A TRENCH EXCANATED INTO THE GROUND, OR IF SITE CONTRIBUTION GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, THE BASE OF THE FABRIC SHALL BE DIBEDDED WITH A MINIMUM HICKNESS OF 8 INCHES OF 3/4-INCH STONE.

2. THE SOL SHALL BE COMPACTED OVER THE DIBEDDED FABRIC.

3. THE SOL SHALL BE COMPACTED OVER THE DIBEDDED FABRIC.

4. THE SOL SHALL BE COMPACTED OVER THE DIBEDDED FABRIC.

5. FILE SOL SHALL BE COMPACTED OVER THE DIBEDDED FABRIC.

5. FILE SHALL BE COMPACTED OVER THE DIBEDDED FABRIC.

6. SILT FENCING SHALL NOT BE STAPLED OR NULLED TO TREES.

6. SILT FENCING SHALL NOT BE STAPLED OR NULLED TO TREES.

6. SILT FENCING SHALL BE CERTIFIED SHALL DET THE SHORT SHALL BE WIRED TO THE SHALL BE CHARTED OVER THE PROPORT PART OF MAIN LEG A PERFORMANT SHALL BE CHARTED OVER THE PROPORT PART OF MAIN LEG CHARTED SHALL BE WIRED TO THE SHALL BE CHARTED OVER THE SHALL BE CHARTED ON THE DIBETT OF THE SHALL BE THE SHALL BE CHARTED OVER THE SHALL BE CHARTED OVER THE SHALL BE CHARTED OVER THE SHALL BE CHARTED ON THE DIBETT OF THE SHALL BE CHARTED OVER THE SHALL BE CHARTED

OF THE STRUCTURE.

THE FITTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENCTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHICH JOINTS ARE NECESSARY; FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6—INCH OVERLAP, AND SECURELY SEALED.

A MANUFACTURED SLIT FENCE SYSTEM WITH INTEGRAL POSTS MAY BE USED.
POST SPACING SHALL NOT EXCEED 6 FEET.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP GRADIENT FROM THE BURBRIFE.

EARRIES.

THE STANDARD STRENGTH OF FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE POST AND 8 INCHES OF THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES FOR THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE TRENCH SHALL BE APKICHLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

SILT FENCE MAY BE INSTALLED BY "SUCING" USING MECHANICAL EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PROCEDURE. THE SLICING METHOD MINIMALY USING MICHAEL STAPLE SHALL THO THE SOIL THE SLICING METHOD MINIMALY DISQUEST AN IMPLEMENT TOWED BEHIND A TRACTOR TO "PLOW" OR SLICE THE SLICI FENCE MAY BE INSTALLED BY "SUCING" USING MECHANICAL EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PROCEDURE. THE SLICING METHOD MINIMALY DISSAURTS THE SOIL UPWARD AND SLIGHTLY DISPLACES THE SOIL, MAINTAINING THE SOIL'S PROFILE AND CREATING AN OPTIMAL CONDITION FOR SUBSEQUENT MECHANICAL MECHANICALS.

SUBSEQUENT MECHANICAL COMPACTION.

18. ILIT FENCES SHALL BE INSTALLED WITH "SMILES" OR "J—HOOKS" TO REDUCE THE DRAINAGE AREA THAT ANY SEGMENT WILL IMPOUND.

19. THE PINDS OF THE FENCE SHALL BE TURNED UPHILL.

20. SLIT FENCES PILACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE M ALLOW SPACE FOR SHALLOW PONDING AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.

21. SLIT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTY STABILIZED.

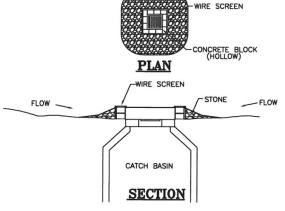
SILTATION CONTROL FENCE DETAIL

NOT TO SCALE

TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

SPECIES	PER ACRE BUSHELS (BU) OR POUNDS (LBS.)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYE GRASS	40 LBS.	1.0 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYE GRASS	30 LBS.	0.7 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

CIVIL ENGINEERS TRANSPORTATION PLANNERS



BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER

CONSTRUCTION SPECIFICATIONS

1. PLACE CONCRETE BLOOKS LENGTHINGS ON THEIR SIDE IN A SINGLE ROW AROUND THE PERMETER OF

1. PLACE CONCRETE BLOOKS LENGTHINGS ON THEIR SIDE IN A SINGLE ROW AROUND THE BARREDS CAN BE

VARIED, DEPENDING ON DESIGN REEDS, BY STACKING COMBINATIONS OF 4-HICK, 8-HICK AND 12-HICK

WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12 INCHES HIGH AND NO GREATER THAN

24 INCHES HIGH.

- 24 INCHES HIGH.

 WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE
 BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE

REPLACED.

INCHARGE

INCHARGE

REPLACED.

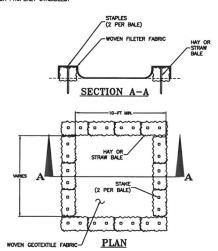
INCHARGE

REPLACED.

INCHARGE

REPLACED.

REPL



CONSTRUCTION SPECIFICATIONS;

1. THE DE-WATERING AREA WILL BE CONSTRUCTED BEFORE ANY PUMPING OCCURS AT

- E SITE.

 BORNARY DE-WATERING AREA TYPE, ABOVE GRADE, WILL BE CONSTRUCTED AS OWN ABOVE, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF
- SHOWN ABOVE, THE A TRANSPORT OF THE MATERIAL.

 HE DE-MATCHEN AREA WILL BE LOCATED AS SHOWN OR AS DIRECTED BY TEH ENGINEETIAL CONSULTANT.

 GEOTEXTILE LIVING WILL BE FREE OFFEARS, OR OTHER DEFECTS THAT COMPROMISE THE DURABILITY OF THE MATERIAL.

- MAINTENANCE NOTES:

 1. THE DE-WATERING AREAS(S) WILL BE INSPECTED DAILY TO ENSURE THAT ALL SEDIMENT IS BEING DISCHARGED INTO THE HAYBALE DAM AREA, NO TEARS ARE PRESENT AND TO IDENTIFY WHEN SEDIMENT NEED OT BE REMOVED.

 2. THE DE-WATERING AREAS(S) WILL BE CLEAMED DUT ONCE THE AREA IS FILLED TO 75 PERCENT OF ITS HOLDING CAPACITY.

 3. ONCE THE HOLDING CAPACITY HAS BEEN REACHED THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQULATION.

 4. THE GEOTETTILE LINING WILL BE REPLACED IF TEARS OCCUR DURING REMOVAL OF SEDIMENT FROM THE DE-WATERING AREA.

DE-WATERING AREA DETAIL NOT TO SCALE

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GETECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS

TEMPORARY VEGETATION:

- <u>PPCGIFCAILUNS:</u> <u>SITE PREPARATION;</u> I. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIC SEDIMENT TRAPS.

 GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
- APPLICATION, AND MULCH ANCHORING.
 RUNOFF SHALL BE DIMERTED FROM THE SEEDBED AREA.
 ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES
 PERPENDICULAY O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.
- PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CALCITY SELD AND RELINCE, DUTINOT.

 PERPENDING PREPARATION:

 1. STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.

 2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2

 3. IF APPLICABLE, FERTILIZER AND GROAMS SOIL AMEDIMENTS SHALL BE APPLIED DURING THE GROWING SEASON.

 4. APPLY UNESTONE AND FERTILIZER AND GROAMS SOIL AMEDIMENTS SHALL BE APPLIED DURING THE GROWING SEASON.

 4. APPLY UNESTONE AND FERTILIZER AND GROWING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LINE, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERMSE. IF SOIL TESTING IS NOT FEASIBLE ON SHALL OR VARRABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

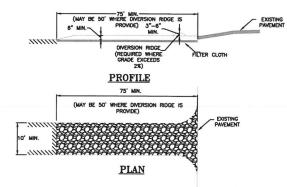
LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*
*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)*
*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

EEDING:
APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MICHAEL HAVE BELEET ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED HYDROSEEDING THAT INCLUDING MICHAEL HAVE BELEET ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED TEMPORARY SEED SHALL PROPORTY OF SEEDING THAT OF STRAM MULCH, AREAS SEEDED BETHERN MAY 15 AND AUGUST 1S SHALL BE COVERED WITH HAY OR STRAM MULCH, ACCORDING TO THE TEMPORARY AND PERMINENT MULCHING "PRACTICE DESCRIBED IN THE INSISM, VOI. 3.
VEGETATED GROWTH COVERING AT LEST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO COTOBER 15. IF THIS CONTOTION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

- Intenance requirements:
 Temporary seeding shall be inspected wedly after any rainfall exceeding 1/2 inch in 24 hours
 on active construction sites. Temporary seeding shall be inspected just prior to september 15,
 to ascertain whicher additional seeding is required to provide stabilization over the winter
- PERIOD.

 BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION IF ANY COMPONENCE OF EROSON OF SEDIMENTATION IS APPLAEMENT, REPAIRS SHALL BE MORE AND AREAS SHALL BE RESEEDED. WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSON PROTECTION DURING THE PERIOD OF VEGETATION ESTABLESHEDT.



TEMPORARY CONSTRUCTION EXIT NOT TO SCALE

IDDANCE REQUIREMENTS:
WHICH THE CONTROL PAU BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MITERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHALL TEN BE RECONSTRUCTED.
THE CONTRACTOR SHALL SWEEP THE PAREMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE AUGUSTH PAREMENT OR TRIVALED WAY.
WHEN WHEEL MASHING IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AM APPROVED SEDIMENT-TAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

CONSTRUCTION SPECIFICATIONS:

1 THE MINIMUM STORE USED SHALL BE 3-INCH CRUSHED STONE.

2. THE MINIMUM STORE USED SHALL BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 30 FEET IF A 3-INCH TO 6-INCH BERN IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.

3. THE PLAN SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS

THE PAD SHALL BE THE FULL HILLIN OF CONSTRUCTION TO THE PAD SHALL BE AT LESS 6 INDIVES THIS ROOMAY.

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THE PAD SHALL BE AT LESS 6 INDIVES THISK.

THE CECITISTILE FILTER FARRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE
BELOW THE PAD.

THE PAD SHALL BE MAINTAINED OR REPLACED HIERN MUD AND SOIL PARTICLES CLOC THE VOIDS IN
THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFT—STE.

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TEMPORARY EROSION AND SEDIMENTATION CONTROL **DETAILS** TAX MAP 243, LOT 34 145 AIRPORT DRIVE

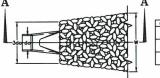
ROCHESTER, NH PREPARED FOR LDI SOLUTIONS, LLC

2 Continental Blvd., Rochester, N.H. 603-335-3948

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT
BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE
GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH
IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN

RIP-RAP GRADATION

_d50	= 3	•	
% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)		
100	5	TO	6
85	4	то	5
50	3	то	5
15	1	то	2
d50 % OF WEIGHT SMALLER	= 4 Si7	E OF ST	ONE
THAN THE GIVEN SIZE	-	(INCHES)	
100	6	TO	8
85	5	TO	7
50	4	TO	6



APRON DIMENSION TABLE						
OUTLET PROT.	PIPE OUTLET	Wo	W	La	T	d50
# 1	24" CPP INLET INTOSWALE	6'	8'	19'	12"	4"
 2	18" CPP INLET INTO FOREBAY	3'	6,	9'	9"	3"
/ 3	12" CPP OUTLET INTO BASIN 2	4.5'	10'	13'	12"	4"

CULVERT	END SECTION	N RIP	-RAP
EXISTING SUB-GRADE SEC	TION	GEOTED A—A	CTILE FABRI
(PIPE	OUTLET TO FLAT	AREA NO	

NOTES:

1. ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH THAT
OF THE PIPE CULVERT.

2. THE LANGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND

SIMPLICITY.

APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

IMPERANCE THE SUB-GROUE FOR THE FILTER MATERAL, GEOTEXTILE FABRIC, AND RIP-RAP TO THE GRODES SHOWN ON THE PLANS.

MINIMUM IS "SAWD/GRAML BEDOING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK OR PRAPA

THE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.

GEOTEXTILE FABRICS SHALL BE PROTECTED FORM PUNCTURE OR TEARING DURING THE PLACEMENT OF ROCK RIP-RAP. DAMAGED

AREAS IN THE FABRIC SHALL BE REPARRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE

REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO (2) PIECES OF FABRIC SHALL BE A

MINIMUM OF 12 INCISE.

STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE

OPERATION AND IN SUCH A MANNER AS TO PREVENT SECREGATION OF THE STONE SIZES.

THE SAME GRADATION AND THICKNESS.

MAINTENANCE NOTES:

1. OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-MED SHALL BE REPAIRED IMMEMBRIES.

2. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COLUD CHANGE FLOW PATERNS AND OFF TRAINING COLUD CHANGE FLOW PATERNS AND OFF TRAINING THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

DUST CONTROL PRACTICES:

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.

 MAIER APPLICATION:

 A) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

 B) AVOID DECESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NATURAL WATERBOOIES.

 STONE APPLICATION:
- DEPOSITION IN NATURAL WATERBOORES.
 STONE APPLICATION:

 A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
 B) IN AREAS NARE WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED ACCRECATE.
 REFER TO "NEW HAMPSHIRE STORMWATER MANACEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION
 AND SEDIMENT CONTROLS, DECEMBER 2008 FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E.
 COMMERCIAL TACKIFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORDE, ETC.)

STOCKPILE PRACTICES:

- I. LOCATE STOCKPLES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE OURSES OR INLETS.
 PROTECT ALL STOCKPLES FROM STORMWATER RUN-ON USING TEMPORARY PERMETER MEASURES SUCH AS INVESTIONS, BETWIS SANDBAGS OR OTHER APPROVED PRACTICES.
 STOCKPLES SANLE DE SURGOUNDED BY SEDULETI BARRIESTS AS DESCRIBED ON THE PLANS AND IN INHIBM VOL. 3, TO PREVENT MICRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILE.
 HAPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
 PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.

PROTECTION OF INACTIVE STOCKPILES.

6. INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (ISTOCKPILES SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERMIETER SEDIMENT BARRIERS (LE. SILT FENCE, ETC.) AT ALL TIMES.

7. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERMIETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS AREA SOURCE OF DUST, THEY SHALL ALSO BE COMPRED.

FILE NO. 104

KOTECTION OF ACTIVE STOCKPILES.

ARE STOCKPILES SAMLE BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BAPRIERS (I.E. SILT FENCE, ETC.)

ARE STOCKPILES SAMLE BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BAPRIERS (I.E. SILT FENCE, ETC.)

ADMISTED AS ROEDED TO ACCOMMODATE THE DELPHETY AND REMOVAL OF MARERIAL FROM THE STOCKPILE. THE

INTEGRITY OF THE BARRIER SHALL BE INSPECTED AT THE END OF EACH WORKING DAY.

WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORDE PROTECTIVE COVERING.

PERMANENT VEGETATION:

SITE PREPARATION:

1. INSTALL REEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

3. RINGET SHALL BE DIVERTED FROM THE SEEDBED AREA.

4. ON SLOPES 4:1 OR STEPER, THE FIRML PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNGET.

A SITE IS DEBEND RUNGED.

SEEDBED PREPARATION:

1. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWNING OPERATION SHALL BE ON THE CEDERAL CONTION. EXCHANGE STALL BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

2. REMOVE FROM THE SUIFACE ALL STONES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBMS, SUCH AS WIRE, CALE, TIER ROOTS, CONCRETE CLOSS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.

3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE ARREMANIS EXTENDED AND THE SUIFACE ALL OTHER SEEDS OF THE SOIL COMPACTED; THE ARREMANIS EXTENDED AND THE SUIFACE ALL STONES SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE ARREMANIS EXTENDED AND THE SOURCE OF THE ARREMANIS EXCEPTION. THE SOURCE OF THE ARREMANIS EXPORTED THE OTHER SOURCES.

5. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENIMENTS SHALL BE APPLIED DURING THE GROWNS SEASON.

IF APPLICABLE, FENTILIZER AND ORGANIC SOLL AMERIMENTS SHALL BE APPLIED UPORTION FOR COMMINISTRATION OF THE APPLIED UPORTION FOR COMMINISTRATION OF THE APPLICATION OF

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*
*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)*
*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

EEDING.

NOCULATE ALL LEQUIME SEED WITH THE CORRECT TYPE OF INOCULANT.

NOCULATE ALL LEQUIME SEED WITH THE CORRECT TYPE OF INOCULANT.

NOCULATE ALL LEQUIME SEED AND FERTILIZED. NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE.

WHERE FERSIBLE EXCEPT WHERE ETHER CULTIPACKET TYPE SEEDER OR HYDROSEEDING IS USED, THE SEEDER OR HYDROSEDING TO SUITE ALL THE SEEDER OR HYDROSEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE.

WHERE FERSIBLE EXCEPT WHERE ETHER CULTIPACKET TYPE SEEDER OR HYDROSEDING IS USED, THE SEEDER OR HYDROSEDING TO SUITE ALL THE SEEDER OR HYDROSEDING THE SUITE ALL THE SEEDER OR HYDROSEDING THE SUITE ALL THE SEEDER OR SUITE ALL THE SUITE AL

WHITE PÉASIBLE EXCEPT WHERE ETHER CULTIFACRE TITLE SELEUR UR THOMASEAGLA WINESD, THE SECRÉEDED SHALL BE FIRMED FOLLOWING SECRICO OPPRANDOS WITH A ROLLER, OR USED, THE SECRÉEDE SHALL BE COMPLETED AS JANS PROR TO FIRST KILLING FROST. WHEN PERMANENT SEEDING SHALL BE COMPLETED AS JANS PROR TO FIRST KILLING FROST. WHEN CROWN YETCH IS SEEDED IN LATE SUMMER AT LEXES 350 OF THE SEED SHALL BE HARD SEED (UNSCARFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULLA HACORONING TO THE "TEMPORARY AND PERMANENT MULCHAND" PRACTICE DESCRIBED IN THE NISSM, VOL. 3. AND DELAY SEEDING UNITL. THE NEXT RECOMMENDED SEEDING PERSON. AREAS SEEDED BETWEEN MAY 15 AND JUICIST 15 SHALL BE COMPSET WITH HAY OR STRAW MULLH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NISSM, VOL. 3. AND DELAY SEEDING UNITL. THE NEXT RECOMMENDED SEEDING PERSON. MILL BE COMPSET WITH HAY OR STRAW MULLH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NISSM, VOL. 3. AND DELAY SEEDING UNITL. THE NEXT METHOD OF THE TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NISSM, VOL. 3. AND DELAY SEEDING UNITL. THE NEXT METHOD OF THE TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NISSM, VOL. 3. AND DELAY SEEDING UNITL. THE NISSM SHALL BE ACHIEVED PRACTICE DESCRIBED IN THE NISSM. SHALL BE ACHIEVED TO TOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STRAILERAND MASSURES FOR OVER WINTER PROTECTION.

MORRISSERING:

1. WHEN HYDROSEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

2. SLOPES BUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY.

3. LIME AND FERTILIZER MAY BE APPLIED SMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MILLCH ON CRITICAL AREAS IS NOT RECOMMENDED UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MILCH AND HOLDING IT WITH ADHESIVE MATERIALS OR SOO POUNDS PER ADRE OF WOOD FIBER MULCH.

4. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEDING.

- MAINTENANCE REQUIREMENTS:

 1. PERMANENT SEEDED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.

 2. SEEDED AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VECTATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.

 3. BASED ON INSPECTION, AREAS SHALL BE RESEDEDED TO ACHIEVE FULL STABILIZATION OF
- SEEDED AREAS SHALL DE SEEDED AND FREQUENCY OF ACHIEVE FULL STORMEN HEIGHT AND FREQUENCY OF ACHIEVE FULL SHADON MOSFECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL SHADON MOSE SHALL BE COVERED BY VEGETATION. AT A MINIMUM BOX OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION. AT A MINIMUM BOX OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION AT EMPARENT, REPARTS SHALL IF ANY EMPENDED FOR FROM THE PERIOD OF VEGETATION ESTABLISHME AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LBS./ACRE	LBS./ 1,000-SF
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	^	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	۸	TALL FESCUE CREEPING RED FESCUE REDITOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	A	TALL FESCUE CREEPING RED FESCUE REDITOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	CREEPING RED FESCUE KENTUCKY BLUEGRASS TOTAL	50 50 100	1.15 1.15 2.30

UNCES: NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES MINNICK, F.L. AND H.T. MARSHALL, (AUGUST 1992)

CONSTRUCTION PHASING:

CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN 4.

NEDEPENDENT MONITOR.

PERMANENT STABILIZATION:
ALL AFEA OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED AS 5.
SOON AS PRACTICABLE BUT NO LATER THAN 3 DATS FOLLOWING FINAL GRADING.
MAINLAIL AFEA OF DISTURBENGALL BE DISTURBED DISTURBED OPENING CONSTRUCTION, BUT IN 10. ASSE EXCEED 3 ACRES AT ANY ONE TIME BEFORE DISTURBED AFEA ARE.

STABILIZED.

NO CASE EXCED 3 ACRES AT ANY ONE TIME BEFORE DISTURBED AREA ARE STABILIZED.

5. ONLY DISTURB.

1. ONLY DISTURB.

1. ONLY DISTURBED.

2. ONLY DISTURBED.

3. PEXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE MATURAL VEGETATION.

6. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CONSTRUCTION IN SCHOOLING SLOPES SHALL BE PROTECTED DURING CONSTRUCTED AND DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CONSTRUCTED, APPLIED AND MANITARIOD IN ACCORDANCE WITH THE APPROVED GRADING AND CONSTRUCTED, APPLIED AND MANITARIOD IN ACCORDANCE WITH THE APPROVED EXAMINE SHALL BE CONSTRUCTED, APPLIED AND MANITARIOD IN ACCORDANCE WITH THE APPROVED EXAMINE AND MANITARIOD IN ACCORDANCE WITH THE APPROVED EXCENSIVE TO AND MANITARIOD IN ACCORDANCE WITH THE APPROVED EXCENSIVE AND ADMINITARIOD ACCORDANCE WITH THE APPROVED EXCENSIVE AND ADMINITARION SHALL BE STOCKPILED IN THE AMOUNT INCESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM ECROSON.

FROM EROSION. STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED

ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND

PROJECT SPECIFIC CONSTRUCTION PHASING:

REFER TO THE "GENERAL CONSTRUCTION PHASING" NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE "CENERAL CONSTRUCTION PHASING" NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERED TO.

COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FULLDINGS PHASING. THE CENTERAL CONSTRUCTION PHASING. THIS APPLY TO THE OFFICE AND AND SHALL BE ADHERED TO.

1. INSTALL ALL TEMPORARY ESEMENT CONTINUE DAYS, CTC.) AROUND THE CONTINUE OF THE PROPERTY OF THE WITH THE PROPERTY OF THE STOCKHOLD OF THE PROPERTY OF THE PROPERTY OF THE THE PROPERTY OF THE THE PROPERTY OF T

DIRECTING RUNOFF TO THEM.

11. PERFORM THE NECESSARY CUTS AND FILLS TO SUBGRADE IN THE BUILDING AND PARKING LOT AREAS.

A) INSTAL REQUIRED FILLS IN MAXIMUM 8—INCH LIFTS AND COMPACT

12. AS SUBGRADE OF APPLICATION OF THE MAXIMUM 8—INCH LIFTS AND COMPACT

13. AS SUBGRADE AS PARKED BISTALL READINEST SUBMENT CONTROL.

BY SUBGRADE AS PARKED BISTALL READINEST SUBMENT CONTROL.

BY SUBMENT CONTROLS AND CATCH BUSINS, ETC.)

13. INSTALL ALL UTILIZES AND CASTON OF SUBMENT SUBMENT CONTROLS AND CATCH BUSINS, ETC.)

14. INSTALL ALL UTILIZES AND CASTON ON SUBMENT CONTROLS AND CASTON OF SUBMENT CONTROLS AND CASTON ON SUBMENT CONTROL BASED AND MALE THE SUB-SUPES OF THE BORN AS DISCRETCED IN THE CORRESPONDING ETC.

15. ALL CUT AND FILL SLOPES AND LAWIN AREAS NOT TO BE PARKED SHALL BE COMPACTED ON SHEET CASTON ON SUBMENT CONTROL BARRIER DEPICTION ON SHEET CASTON ON SUBMENT CONTROL BARRIER DEPICTION ON SHEET CASTON ON SUBMENT CONTROL BARRIER DEPICTION ON SHEET CASTON ON SUBMENT CONTROL BARRIER OF SUBMENT SUBMENT. SUBMENT SUBMENT SUBMENT SUBMENT SUBMENT, SUBMENT SUBMENT,

24. OF MY PROJECT COMPLETION, UNC. THE SITE IS DEEDED STABILLED (MESERO) AND SEGRIFICATION. THE TEMPORARY SECURIOR SECUR

THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS 08/11/20 - REVISE RIPRAP APRON DIMENSION TABLE

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

EAST 85% OF AREA KEGTAIED WITH HEALTHY, MCOROUS GROWTH.)

SECCEMENTORS STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE FEROLO FROM OCTOBER 13 THROUGH MAY 13.

1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1—AGRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN HISSMILL, WE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN HISSMILL, VOL. 3 AND ELSEWHERE IN THIS PLUN SET, PRIOR TO ANY THAY OF SPRING MEIT EVENT.

2. STABILIZATION AS FOLLOWS SHALL BE COMPLETED WITHIN A DAY OF ESTABILIZATION FOLLOWS SHALL BE COMPLETED WITHIN A DAY OF ESTABILIZATION THAY SOUTH THAT IS THAN OR THAY SHALL BE STABILIZATION OF THAY SHALL BE CONTINUED FOR MORE THAN 3 DAYS.

A MICH OF THAY SHALL BE ASSEMBLY SHALL BE SEEDED AND COVERED WITH A 310 4 TONS OF HAY OR STRAM MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NINSMI, VOL. 3 FOR SPECIFICATION).

WITH 3 TO 4 TURNS OF HAY OR STRAW MULCH PER ACES SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NI-SMM, VOL. 3 FOR SPECIFICATION).

B. ALL PROPOSED VECCHATED AREA HANNE A SLOPE OF GRAVER THAN 13'S WINCH DO NOTE DEVIATED A MINAUM OF SECRETION OF GRAVEL BE SECRETION OF CONTROL MIX HAVE DEVIATED A STANDARD OF CONTROL BLANKET OR WITH A MINIMUM OF 4 INCHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANHAPETURER. NOTE THAT COMPOST BLANKETS SHALL NOT EXCEED 2 INCHES IN THICKNESS OF THEY MAY OVERREAT.

3. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OWNERFAST.

4. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY CONCEPT ON OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT COCCUR OVER SHOW OF GREATER THAN 1 INCH IN DEPTH.

5. ALL MULCH APPELED DURING WINTER SHALL BE ANCHORED (I.E. BY NETTING, TRACKING, WOOD CELLULOSE FIBER).

6. WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHALL BE MUCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL BRE REESTABLISHED PROR TO ANY RAIN OR SNOWFALL. NO SOIL.

510COPIEL SHALL BE REAGED (VEXAED WITH MUCH) WITHIN 100—FT

RATE OR WITH A HIGH LYCE OF ERRISHO CURING MIX. MIX. MIX. SMLL BE RESTRAILISHED PRIOR TO ANY RAIN OR SNOWFALL. MIX SOIL STORY PAY HELD CONTROL MIX. MIX. SMLL BE CONTROL OF THE MIX. SMLL BE SOURCE AND THE MIX. OF THE MIX. SMLL BE STORY PAY HELD CONTROL AND THE WITH PAY HELD CONTROL OF THE MIX. SMLL BE STORY PAY BE STORY PAY HELD CONTROL OF THE MIX. STORY PAY HELD CONTROL STORY PAY BE STORY PAY

CONTINUE AFCOUNTE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE TOTAL STORY CONTINUE AND CHANNELS MUST BE CONSTRUCTED AND STRAILED BY OCTOBER 15.

11. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STORPED FOR THE WINTER SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND CRAVEL WITH A GRADATION THAT IS LESS THAN 12% OF THE SAND PORTION, OR MATERIA, PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE OF THE SAND PORTION, OR MATERIA, PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE ON STAND AND STAND SHALL CONSIST OF ENGINE ON ONLY OF ENGLAND CONTINUOUS CONTINUED BERMERS THAT ARE INSTALLED DURING PROZED CONDITIONS SHALL NOT BE HISTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BANGERS.

PERMANENT EROSION AND SEDIMENTATION CONTROL DETAILS

> TAX MAP 243, LOT 34 145 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR: LDI SOLUTIONS, LLC

SCALE: AS SHOWN

AUGUST 2020

PLAN NO. C-3013 DWG NO. 20125\SP-



CIVIL ENGINEERS TRANSPORTATION PLANNERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES INC. (60.3).333—348. ASSOCIATES, INC. (603)-335-3948.



CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888 344-7233) 72 HOURS PRIOR TO THE START O

WATERLINE CONSTRUCTION:
A) ALL PROPOSED WATER LINE MATERIAL USED SHALL MEET ROCHESTER WATER DEPARTMENT AND ROCHESTER ENGINEERING DEPARTMENT SPECIFICATIONS. WATER LINES SHALL BE A.W.M.A. C 151, CLASS 52, CEMENT LINED, DUCTILE IRON PIPE.

LINEO, DUCTUE IRON PIPE.

B) PROPOSED WATER CATE VALVES SHALL BE MANUFACTURED BY KENNEDY OF AMERICAN FLOW CONTROL, RESILIENT SEAT TYPE.

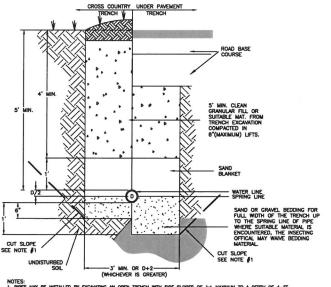
C) ALL WATER LINES SHALL BE BURIED A MINIMUM OF 5'.

D) IF 5' OF COVER IS NOT AVAILABLE WATER LINE SHALL BE INSULATED AS SHOWN IN THE "SHALLOW COVER TRENCH DETAIL FOR INSULATED WATER PIPE".

E) ALL WATER FITTINGS SHALL BE CLASS 350.

F) PROPOSED MATER CATE VALVE SHALL OPEN CLOCKWISE (RIGHT).

10.) WORK TO CONNECT INTO THE WATER OR SEVER MAINS REQUIRES A PERMIT FROM THE ROCHESTER PUBLIC WORKS DEPARTMENT. CONTRACTIONS ARE TO BE PRE-QUALIFIED.



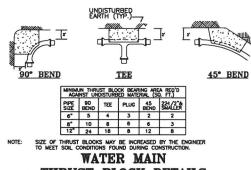
FILE NO. 104

PLAN NO. C-3013 DWC NO. 20125\SP-

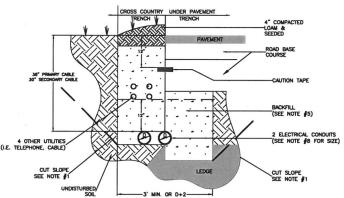
F.B. NO. SDR-TJR

WATER PIPE TRENCH INSTALLATION DETAIL NOT TO SCALE

31 Mooney Street, Alton, N.H. 603-875-3948



THRUST BLOCK DETAILS NOT TO SCALE



. Current edition of the national electric safety code, state and local codes and electric code. Trench with side slopes of 1:1 maximum to a depth of 4—FT. Installations deeper than

ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

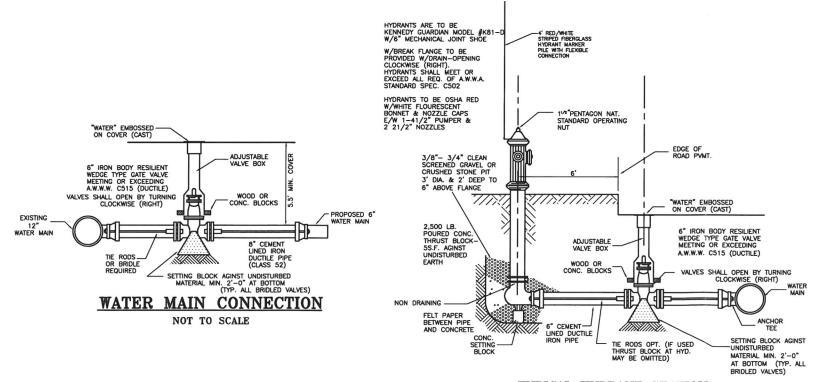
NOT TO SCALE

FIXTURES PER LIGHTING LAYOUT PLAN 4 12" O.C. CIRCULAR PATTERN

POLE MOUNTED LIGHT DETAIL

NOT TO SCALE

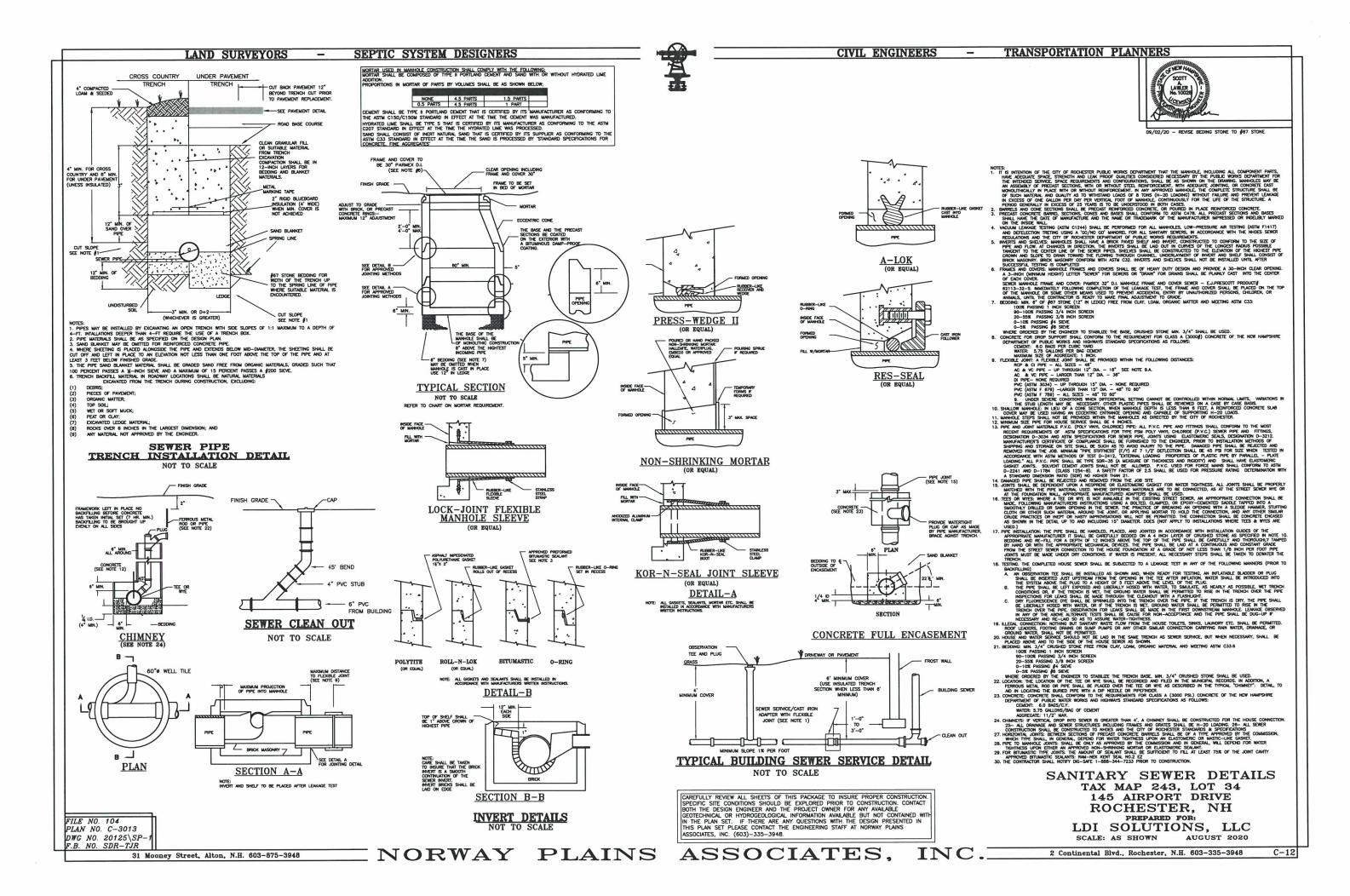
UTILITY DETAILS TAX MAP 243, LOTS 34 145 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR: LDI SOLUTIONS, LLC

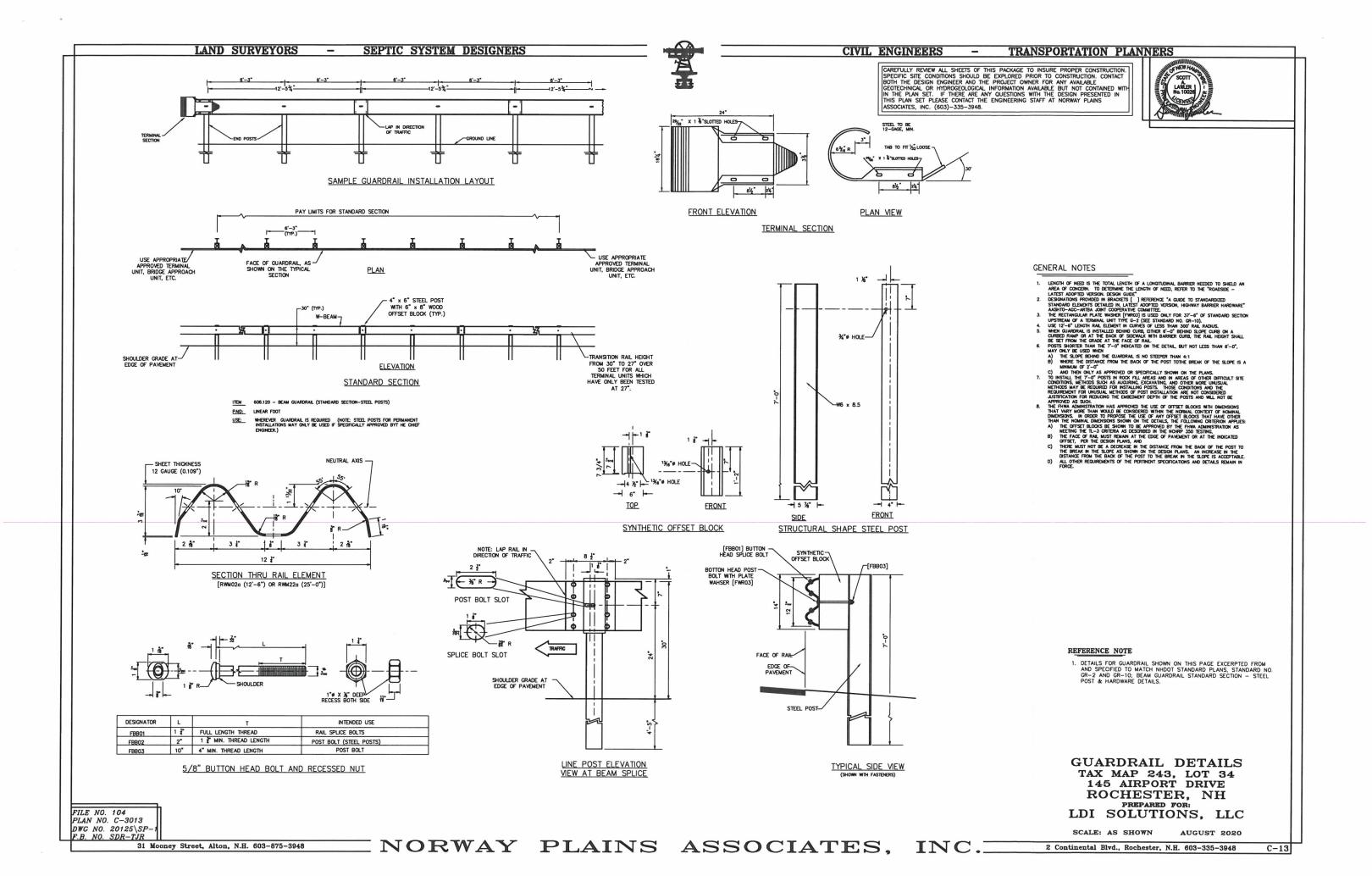


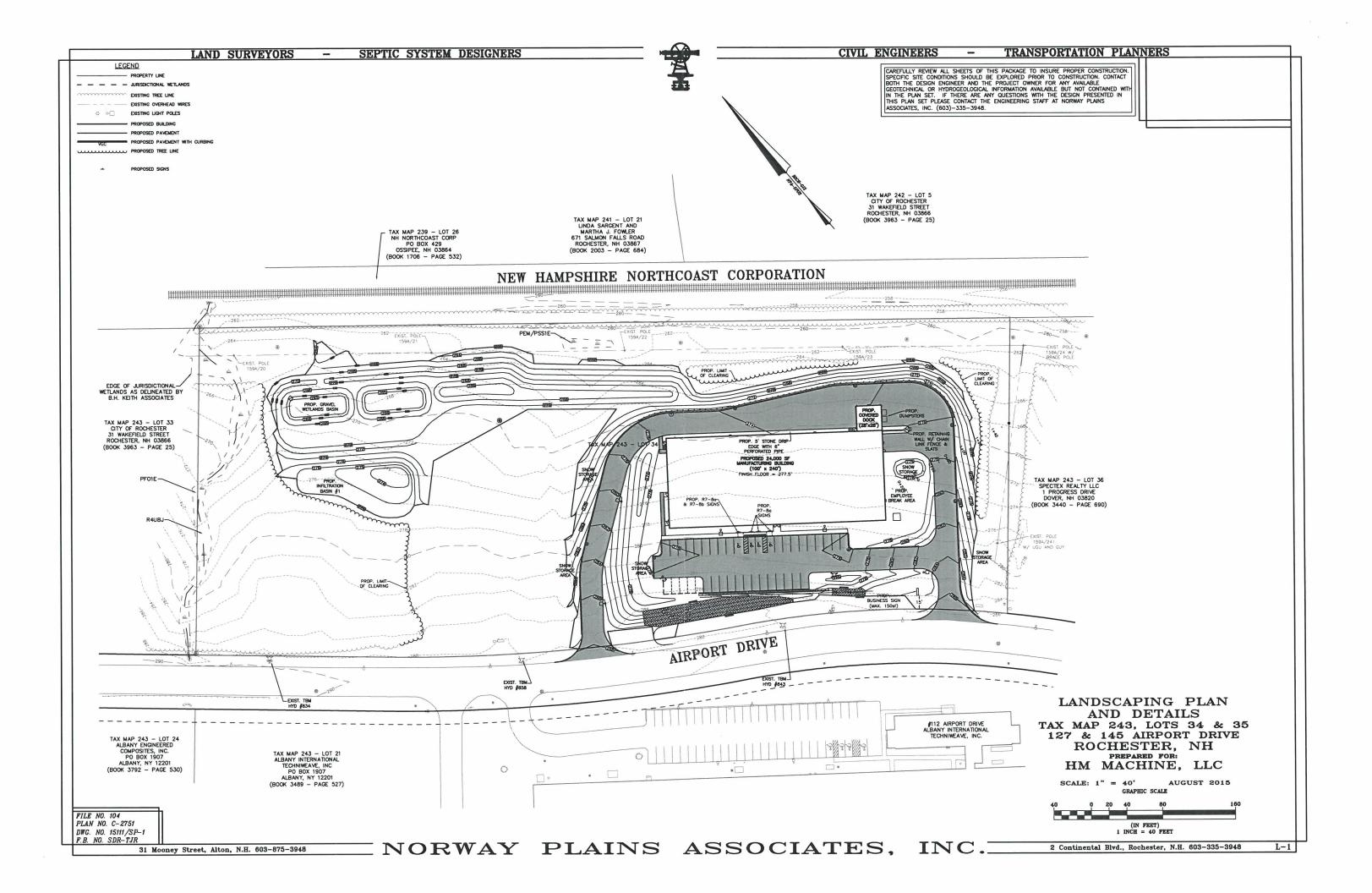
TYPICAL HYDRANT SECTION

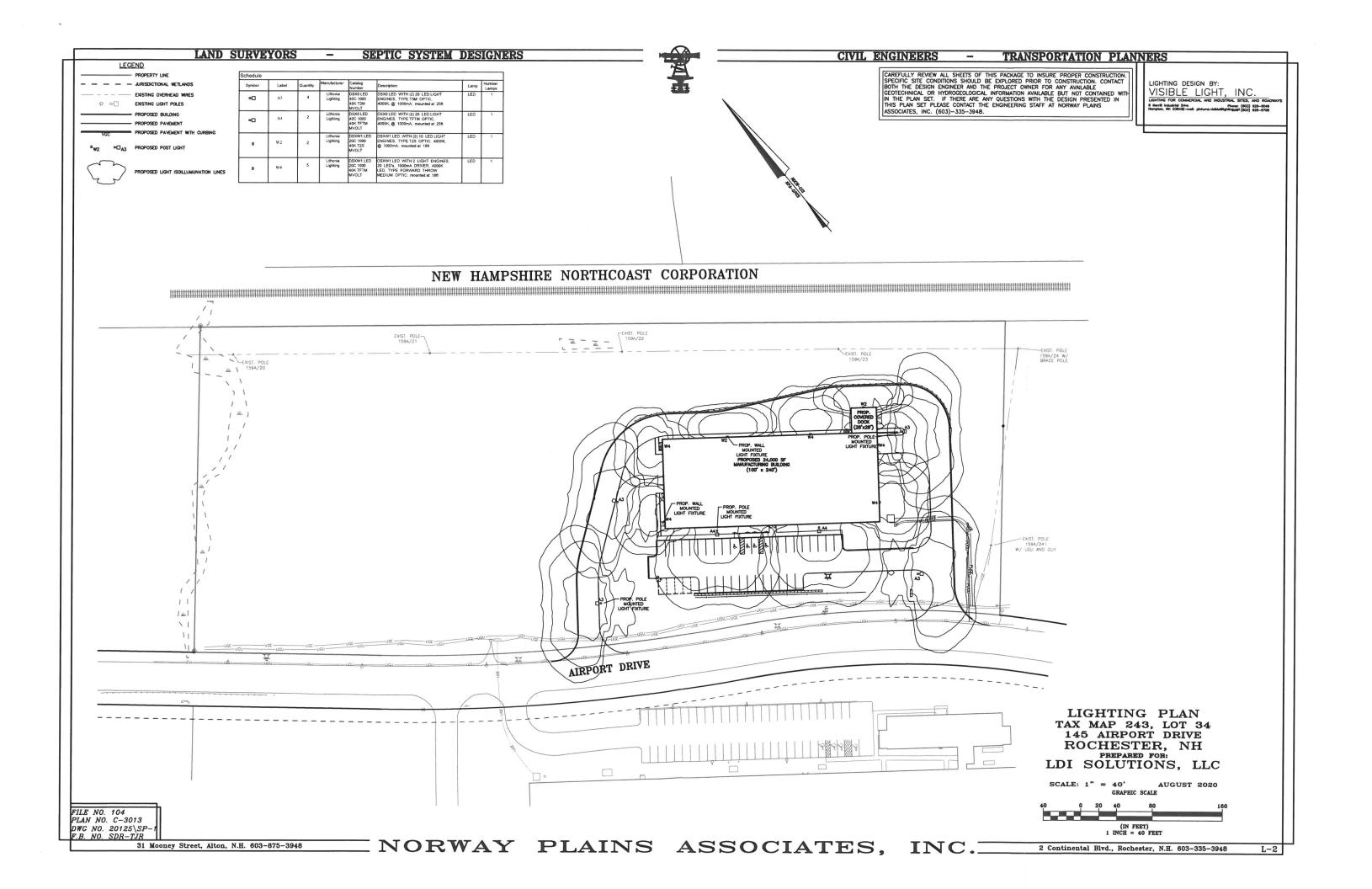
NOT TO SCALE

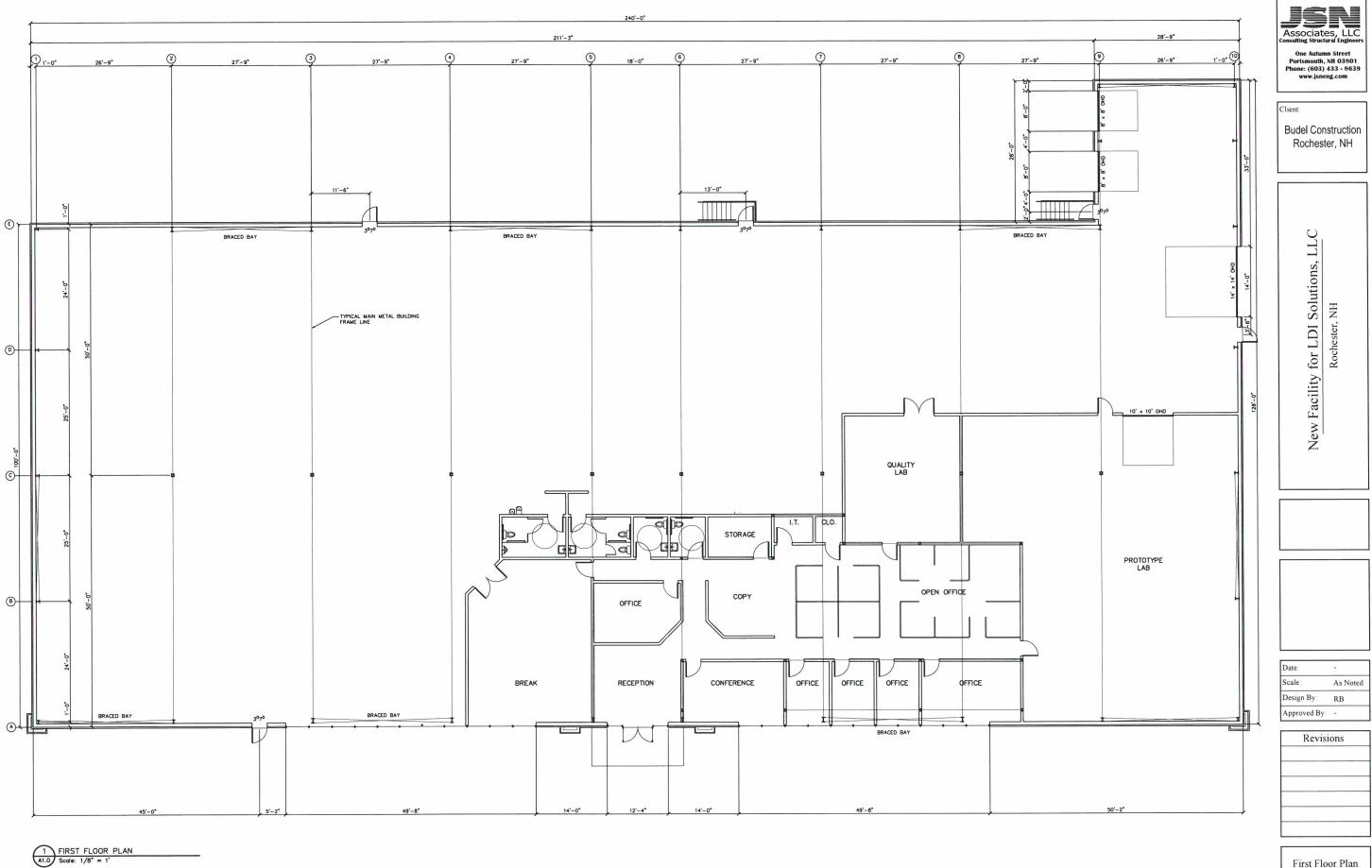
$\overline{}$ NORWAY PLAINS ASSOCIATES. INC. $\overline{}$





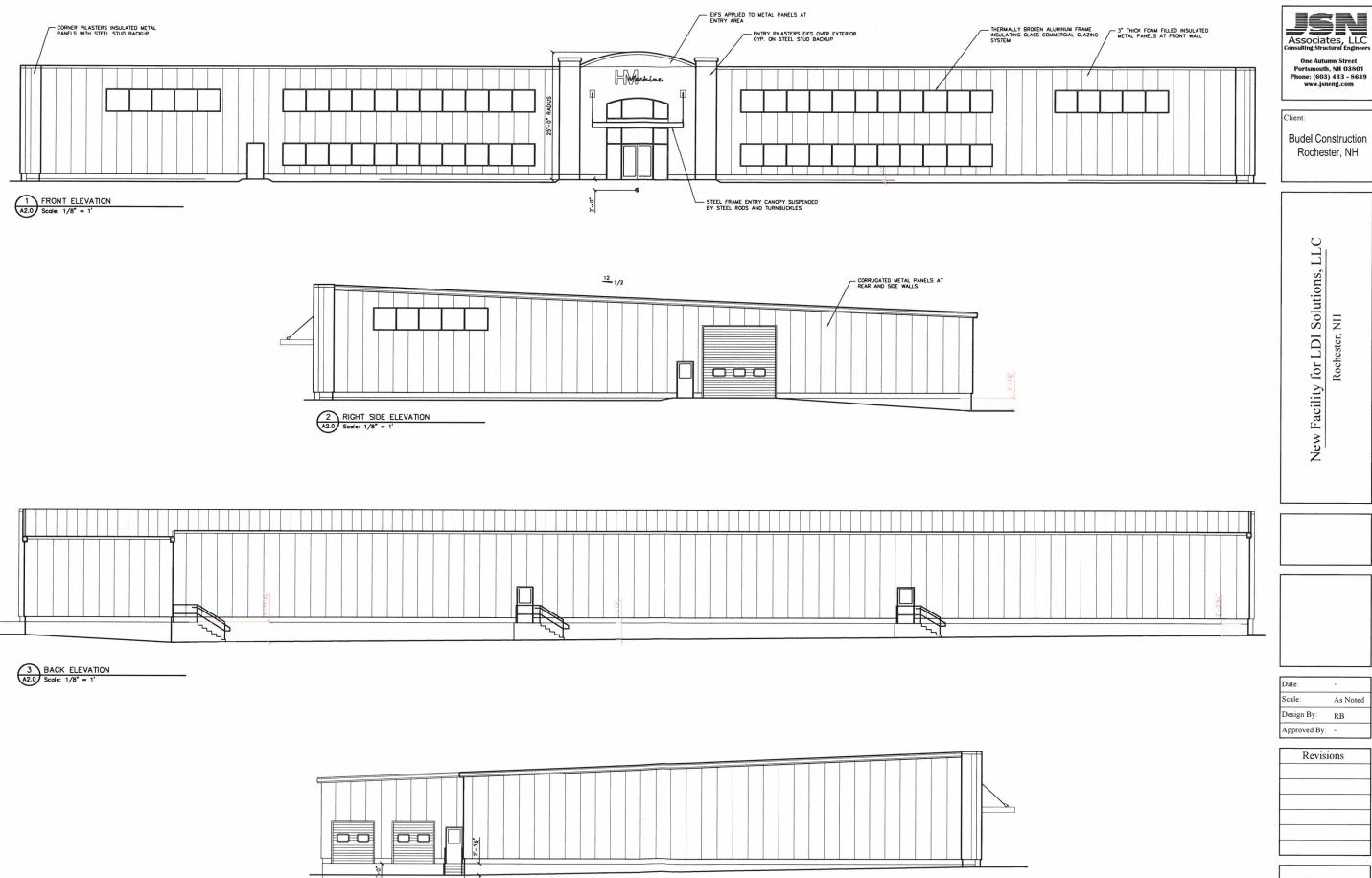






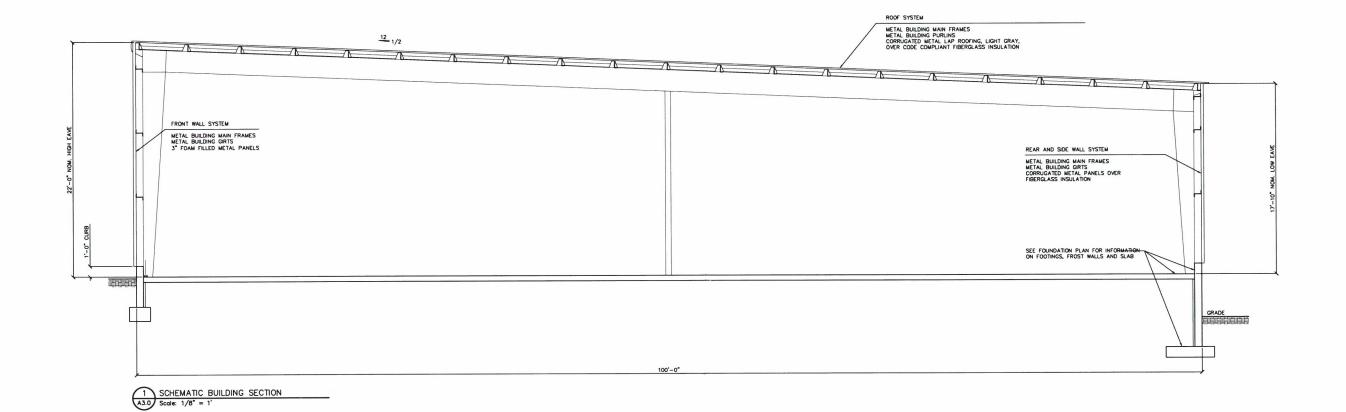
First Floor Plan
A1.0

NOTE: DIMENSIONS ARE TAKEN FROM FACE OF GIRT AND FOUNDATION. FACE OF INSULATED METAL PANELS IS 3" OUTBOARD OF THAT.



4 LEFT SIDE ELEVATION
A2.0 Scale: 1/8" = 1'

Elevations
A2.0
Project No: 151015



Associates, LLC Consulting Structural Engineers

One Autumn Street Portsmouth, NH 03801 Phone: (603) 433 - 8639 www.jsneng.com

Client

Budel Construction Rochester, NH

New Facility for LDI Solutions, LLC Rochester, NH

 Date:

 Scale:
 As Noted

 Design By:
 RB

 Approved By:

Revisions

Schematic Section

A3.0