SITE PLAN
BUILDING #2
GRANITE STREET INDUSTRIAL PARK
MAP 106 LOT 18-1
171 - 179 GRANITE STREET, ALLENSTOWN, NH 03275

SYMBOLS LEGEND

EXISTING	PROPOSED
SETBACK LINE	SILT FENCE
EDGE OF PAVEMENT	CATCH BASIN
TEST PIT	P7 DRAIN LINE
172 2' CONTOUR INTERVAL	DRAIN MANHOLE
180 10' CONTOUR INTERVAL	RUN-OFF FLOW DIRECTION
IRON ROD FOUND	F122 PROPOSED GRADE CONTOUR
BOUND FOUND	STONE CHECK DAM
	BENCHMARK
UTILITY POLE	HANDICAP RAMP AT STREET CORNER
SEWER MANHOLE	PROPOSED CURB EXISTING PAVEMENT
DRAIN MANHOLE	PROPOSED CURB PROPOSED PAVEMENT
CATCH BASIN	183.0 SPOT GRADE
OH OVERHEAD WIRE	RIP-RAP STONE
D DRAIN LINE	PAVED SIDEWALK
W WATER LINE	INFILTRATION BASIN BERM
S SEWER LINE	CHECKDAM (INFILTRATION BASIN)
HYDRANT	RIP RAP OUTLET APRON
WATER VALVE	W WATER LINE
GAS VALVE	S SEWER LINE
	5/8" REBAR TO BE SET
	4"x4"x36" GRANITE BOUND TO BE SET

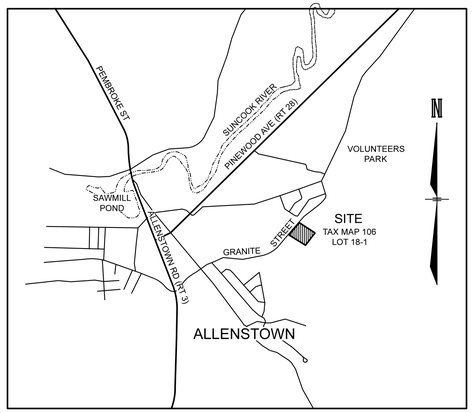
THE LOCATION OF ANY UTILITY INFORMATION SHOWN IN THIS PLANSET IS APPROXIMATE. RJB ENGINEERING, LLC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY UTILITIES WHETHER THEY BE ABOVE OR BELOW GROUND. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 1-800-DIG-SAFE.

OWNER
ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE

APPROVED BY ALLENSTOWN NH PLANNING BOARD

CHAIRMAN DATE



LOCUS MAP

NOT TO SCALE

OWNER:
ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DECEMBER 6, 2023
LATEST PLAN SET REVISION DATE

THIS PLANSET CONTAINS A TOTAL OF 11 SHEETS
COMPLETE SET TO BE FILED AT TOWN OF ALLENSTOWN

No.	DESCRIPTION	DATE
.	.	.
.	.	.
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SHEET INDEX

NOTE:

REFERENCE IS MADE TO THE LOT LINE ADJUSTMENT PLAN PREPARED BY NH LAND CONSULTANTS WHICH SHALL BE SUBMITTED AT THE SAME TIME AS THE PROPOSED BUILDING #2 SITE PLAN.

STATE OF NEW HAMPSHIRE
R. JEFFREY BURD
No. 9058
LICENSED PROFESSIONAL ENGINEER

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

IN ASSOCIATION WITH:
NH LAND CONSULTANTS
683C FIRST NH TURNPIKE
NORTHWOOD, NH 03261
PH. 603-942-9220

DATE: SEPTEMBER 1, 2023 SHEET: 1 of 11

TEST PIT LOGS:

TEST PIT #2–2 (AUGUST 10, 2023)

0"–30" GRAVEL FILL – NO LOAM

30"–84" BROWNISH YELLOW (10YR 6/6) LOAMY SAND GRANULAR, FRIABLE

84–108" LIGHT OLIVE BROWN (2.5Y 5/3) LOAMY SAND GRANULAR, FIRM, MOIST

E.S.H.W.T.= 60"
LEDGE= NONE OBSERVED
WATER= NONE OBSERVED
TEST PIT BOTTOM=108"
PERC. RATE = 4 MIN/IN

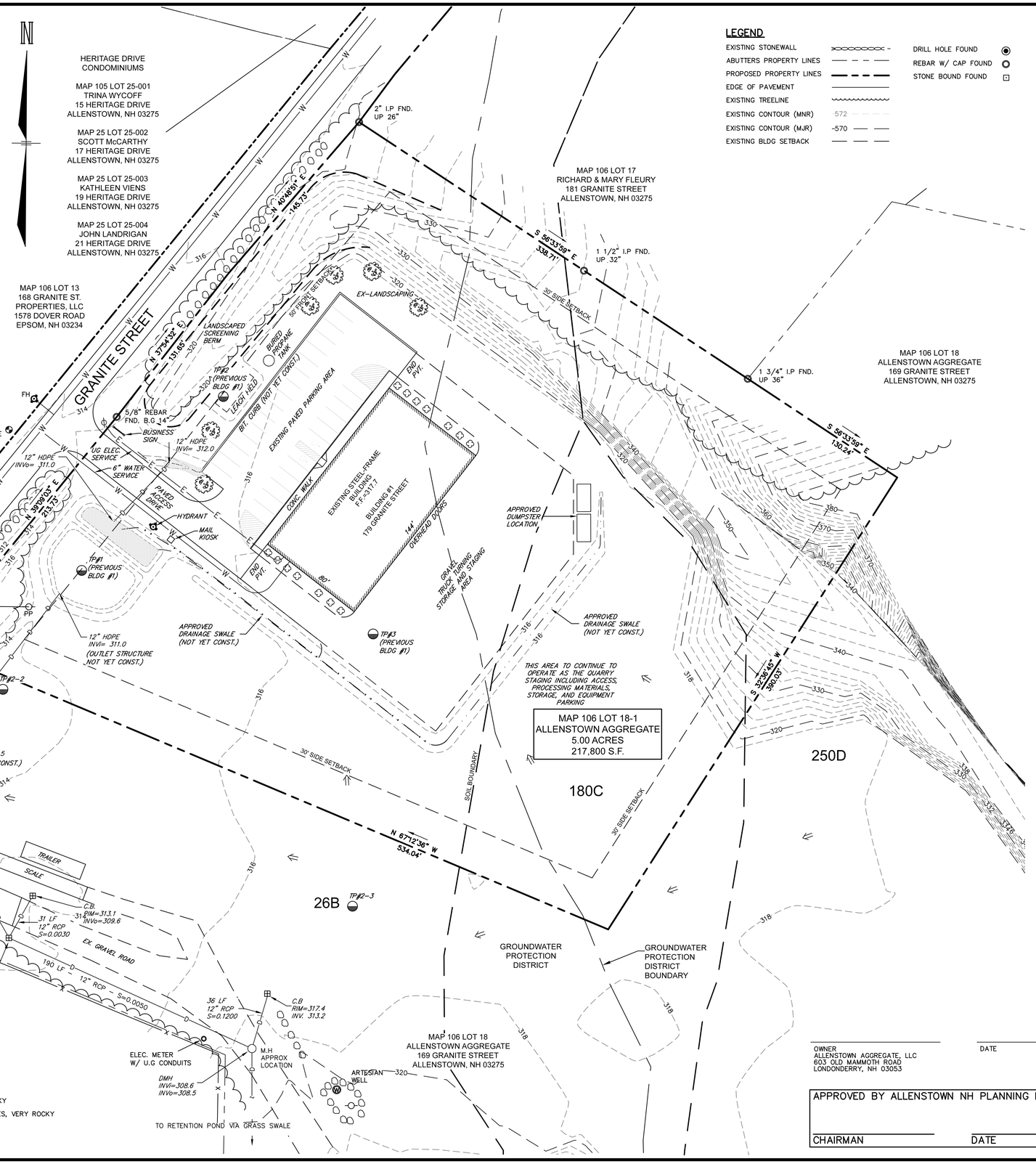
TEST PIT #2–3 (AUGUST 22, 2023)

0"–12" GRAVEL

12"–60" LIGHT YELLOWISH BROWN 10YR 6/4 FINE SANDY LOAM, GRANULAR, FRIABLE, SOME GRAVEL

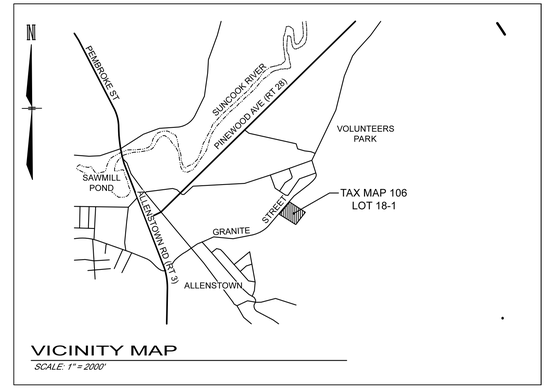
60"–96" LIGHT OLIVE BROWN 2.5Y 5/4 FINE LOAMY SAND GRANULAR, FRIABLE,

E.S.H.W.T.= NONE OBSERVED
ROOTS= NONE
WATER= NONE OBSERVED
LEDGE=96"
PERC. RATE = 6 MIN/IN



LEGEND

- EXISTING STONEWALL
- ABUTTERS PROPERTY LINES
- PROPOSED PROPERTY LINES
- EDGE OF PAVEMENT
- EXISTING TREELINE
- EXISTING CONTOUR (MNR) 572
- EXISTING CONTOUR (MJR) 570
- EXISTING BLDG SETBACK
- DRILL HOLE FOUND
- REBAR W/ CAP FOUND
- STONE BOUND FOUND



VICINITY MAP

SCALE: 1" = 2000'

PLAN REFERENCES:

1. A PLAN TITLED "2 LOT SUBDIVISION PLAN, ALLENSTOWN AGGREGATE, LLC, TAX MAP 106 LOT 18, 169 GRANITE STREET, ALLENSTOWN NH 03275", CONSISTING OF 5 SHEETS, PREPARED BY NH LAND CONSULTANTS, NORTHWOOD NH, DATED LAST REVISED ON SEPTEMBER 16, 2020, AND RECORDED IN THE M.C.R.D. AS PLAN #????

2. A PLAN TITLED "SITE PLAN, MAP 106, LOT 18–1, 169 GRANITE STREET, ALLENSTOWN, NH" PREPARED FOR THIBEAULT CORP. OF NE, 603 OLD MAMMOTH ROAD, LONDONDERRY, NH 03053, BY RJB ENGINEERING, LLC, DATED LAST REVISED ON DECEMBER 9, 2020, AND ON FILE AT THE TOWN OF ALLENSTOWN.

NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE BOUNDARIES AND EXISTING CONDITIONS ON PROPERTY OF ALLENSTOWN AGGREGATE FOR SITE PLANNING PURPOSES.
2. THE SUBJECT PROPERTY IS DESIGNATED AS MAP 106, LOT 18–1.
3. THE OWNER OF RECORD IS:
   ALLENSTOWN AGGREGATE, LLC
   603 MAMMOTH ROAD
   LONDONDERRY, NH 03053
4. DEED REFERENCE TO SUBJECT PROPERTY IS BOOK 3565, PAGE 1503 IN THE MCRD
5. THE AREA OF THE SUBJECT PARCEL IS 5.00 ACRES, 217,800 SF
6. THE ZONING DESIGNATION FOR THE PROPERTY IS OSF (OPEN SPACE AND FARMING).
7. DIMENSIONAL REQUIREMENTS PROVIDED FOR ZONE OSF:

MIN. ROAD FRONTAGE	=200' (SINGLE AND TWO FAMILY DWELLINGS)
MIN. LOT SIZE	=5 ACRES (SINGLE FAMILY DWELLING)
	=10 ACRES (TWO FAMILY DWELLINGS)
MIN. ROAD SETBACK	=20'
MIN. SIDE/REAR SETBACK	=30'
WETLAND/WATERBODY SETBACK	=20'
MAXIMUM STRUCTURE HEIGHT	=35'
MIN WETLAND BUFFER	=50' (NO DISTURBANCE VEGETATED BUFFER)
MIN SEPTIC SETBACK	=75'

8. THE FEMA MAP NUMBER FOR THIS SITE IS 33013C0568E, EFFECTIVE DATE: APRIL 19, 2010. THE SITE RESIDES IN ZONE X WITH AREAS OF 0.2% ANNUAL CHANCE OF FLOOD
9. PHYSICAL FEATURES AND ELEVATIONS ARE BASED ON A FIELD SURVEY PERFORMED ON JANUARY 17, 2020 AND FROM FIELD SURVEY INFORMATION AND MEASUREMENTS TAKEN AFTER CONSTRUCTION OF THE RECENT SITE IMPROVEMENTS BY THIS OFFICE.
10. THERE ARE NO WETLANDS LOCATED IN THE AREA OF THE SITE TO BE IMPROVED.
11. THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATION OF ALL VISIBLE STRUCTURES (CATCH BASINS, MANHOLES, WATERGATES, ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENT AGENCIES. CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTUCTION. CONTRACTOR TO NOTIFY DIG–SAFE 72 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES (1–800–344–7233).
12. THERE IS AN EASEMENT ON THE PROPERTY FOR THE WATER SERVICE TO THE BUILDING TO BE HELD BY PEMBROKE WATER. SEE THE LOT LINE ADJUSTMENT PLAN FOR THE LOCATION OF THE EASEMENT.

No.	DESCRIPTION	DATE
1.	ADD NOTE 12, CORRECT / ADD ADDRESS	12/06/2023
.	.	.
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NRCS SOILS DATA:

26B–WINDSOR LOAMY SAND. 3 TO 8 PERCENT SLOPES

180C–WINDSOR–HOLLIS COMPLEX, 8 TO 15 % SLOPES, VERY ROCKY

250D–CHATFIELD–MONTAUK–HOLLIS COMPLEX, 15 TO 35 % SLOPES, VERY ROCKY

OWNER
ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE

APPROVED BY ALLENSTOWN NH PLANNING BOARD

CHAIRMAN DATE

EXISTING CONDITIONS PLAN

MAP 106, LOT 18–1

GRANITE STREET INDUSTRIAL PARK - BUILDING #2
171 - 179 GRANITE STREET
ALLENSTOWN, NEW HAMPSHIRE 03275

PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

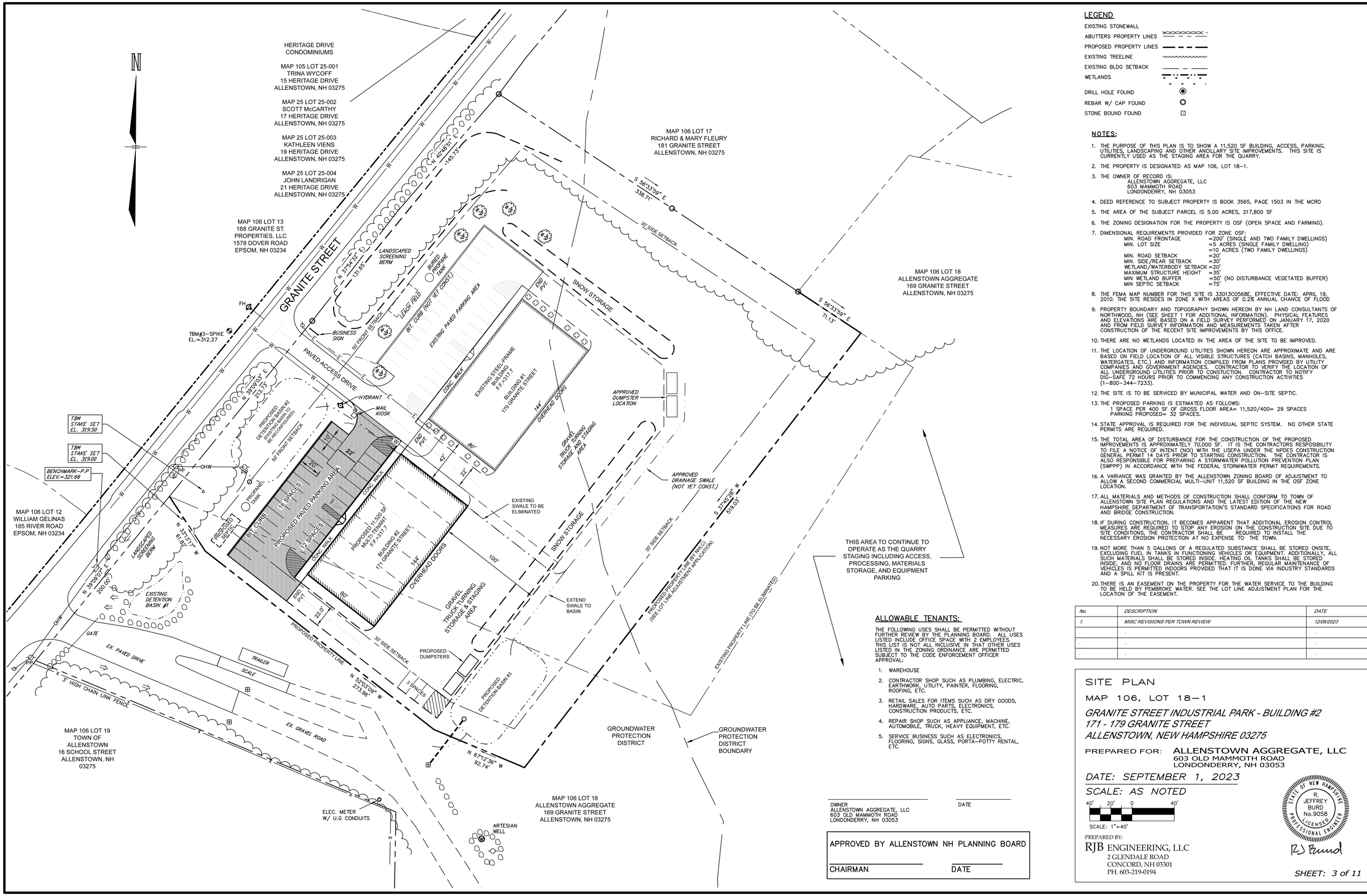
DATE: SEPTEMBER 1, 2023

SCALE: AS NOTED

40' 20' 0 40'
SCALE: 1"=40'

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

IN ASSOCIATION WITH:
NH LAND CONSULTANTS
683C FIRST NH TURNPIKE
NORTHWOOD, NH 03261
PH. 603-942-9220



LEGEND

- EXISTING STONEWALL
- ABUTTERS PROPERTY LINES
- PROPOSED PROPERTY LINES
- EXISTING TREELINE
- EXISTING BLDG SETBACK
- WETLANDS
- DRILL HOLE FOUND
- REBAR W/ CAP FOUND
- STONE BOUND FOUND

NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW A 11,520 SF BUILDING, ACCESS, PARKING, UTILITIES, LANDSCAPING AND OTHER ANCILLARY SITE IMPROVEMENTS. THIS SITE IS CURRENTLY USED AS THE STAGING AREA FOR THE QUARRY.
2. THE PROPERTY IS DESIGNATED AS MAP 106, LOT 18-1.
3. THE OWNER OF RECORD IS:
   ALLENSTOWN AGGREGATE, LLC
   603 MAMMOTH ROAD
   LONDONDERRY, NH 03053
4. DEED REFERENCE TO SUBJECT PROPERTY IS BOOK 3565, PAGE 1503 IN THE MCRD
5. THE AREA OF THE SUBJECT PARCEL IS 5.00 ACRES, 217,800 SF
6. THE ZONING DESIGNATION FOR THE PROPERTY IS OSF (OPEN SPACE AND FARMING).
7. DIMENSIONAL REQUIREMENTS PROVIDED FOR ZONE OSF:

MIN. ROAD FRONTAGE	=200' (SINGLE AND TWO FAMILY DWELLINGS)
MIN. LOT SIZE	=5 ACRES (SINGLE FAMILY DWELLING)
	=10 ACRES (TWO FAMILY DWELLINGS)
MIN. ROAD SETBACK	=20'
MIN. SIDE/REAR SETBACK	=30'
WETLAND/WATERBODY SETBACK	=20'
MAXIMUM STRUCTURE HEIGHT	=35'
MIN WETLAND BUFFER	=50' (NO DISTURBANCE VEGETATED BUFFER)
MIN SEPTIC SETBACK	=75'

8. THE FEMA MAP NUMBER FOR THIS SITE IS 33013C0568E, EFFECTIVE DATE: APRIL 19, 2010. THE SITE RESIDES IN ZONE X WITH AREAS OF 0.2% ANNUAL CHANCE OF FLOOD
9. PROPERTY BOUNDARY AND TOPOGRAPHY SHOWN HEREON BY NH LAND CONSULTANTS OF NORTHWOOD, NH (SEE SHEET 1 FOR ADDITIONAL INFORMATION). PHYSICAL FEATURES AND ELEVATIONS ARE BASED ON A FIELD SURVEY PERFORMED ON JANUARY 17, 2020 AND FROM FIELD SURVEY INFORMATION AND MEASUREMENTS TAKEN AFTER CONSTRUCTION OF THE RECENT SITE IMPROVEMENTS BY THIS OFFICE.
10. THERE ARE NO WETLANDS LOCATED IN THE AREA OF THE SITE TO BE IMPROVED.
11. THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATION OF ALL VISIBLE STRUCTURES (CATCH BASINS, MANHOLES, WATERGATES, ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENT AGENCIES. CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY DIG-SAFE 72 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES (1-800-344-7233).
12. THE SITE IS TO BE SERVICED BY MUNICIPAL WATER AND ON-SITE SEPTIC.
13. THE PROPOSED PARKING IS ESTIMATED AS FOLLOWS:
    1 SPACE PER 400 SF OF GROSS FLOOR AREA= 11,520/400= 29 SPACES
    PARKING PROPOSED= 32 SPACES.
14. STATE APPROVAL IS REQUIRED FOR THE INDIVIDUAL SEPTIC SYSTEM. NO OTHER STATE PERMITS ARE REQUIRED.
15. THE TOTAL AREA OF DISTURBANCE FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS IS APPROXIMATELY 70,000 SF. IT IS THE CONTRACTORS RESPOSIBILITY TO FILE A NOTICE OF INTENT (NOI) WITH THE USEPA UNDER THE NPDES CONSTRUCTION GENERAL PERMIT 14 DAYS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE FEDERAL STORMWATER PERMIT REQUIREMENTS.
16. A VARIANCE WAS GRANTED BY THE ALLENSTOWN ZONING BOARD OF ADJUSTMENT TO ALLOW A SECOND COMMERCIAL MULTI-UNIT 11,520 SF BUILDING IN THE OSF ZONE LOCATION.
17. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF ALLENSTOWN SITE PLAN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
18. IF DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO SITE CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
19. NOT MORE THAN 5 GALLONS OF A REGULATED SUBSTANCE SHALL BE STORED ONSITE, EXCLUDING FUEL IN TANKS IN FUNCTIONING VEHICLES OR EQUIPMENT. ADDITIONALLY, ALL SUCH MATERIALS SHALL BE STORED INSIDE. HEATING OIL TANKS SHALL BE STORED INSIDE, AND NO FLOOR DRAINS ARE PERMITTED. FURTHER, REGULAR MAINTENANCE OF VEHICLES IS PERMITTED INDOORS PROVIDED THAT IT IS DONE VIA INDUSTRY STANDARDS AND A SPILL KIT IS PRESENT.
20. THERE IS AN EASEMENT ON THE PROPERTY FOR THE WATER SERVICE TO THE BUILDING TO BE HELD BY PEMBROKE WATER. SEE THE LOT LINE ADJUSTMENT PLAN FOR THE LOCATION OF THE EASEMENT.

ALLOWABLE TENANTS:

THE FOLLOWING USES SHALL BE PERMITTED WITHOUT FURTHER REVIEW BY THE PLANNING BOARD. ALL USES LISTED INCLUDE OFFICE SPACE WITH 2 EMPLOYEES. THIS LIST IS NOT ALL INCLUSIVE IN THAT OTHER USES LISTED IN THE ZONING ORDINANCE ARE PERMITTED SUBJECT TO THE CODE ENFORCEMENT OFFICER APPROVAL:

1. WAREHOUSE
2. CONTRACTOR SHOP SUCH AS PLUMBING, ELECTRIC, EARTHWORK, UTILITY, PAINTER, FLOORING, ROOFING, ETC.
3. RETAIL SALES FOR ITEMS SUCH AS DRY GOODS, HARDWARE, AUTO PARTS, ELECTRONICS, CONSTRUCTION PRODUCTS, ETC.
4. REPAIR SHOP SUCH AS APPLIANCE, MACHINE, AUTOMOBILE, TRUCK, HEAVY EQUIPMENT, ETC.
5. SERVICE BUSINESS SUCH AS ELECTRONICS, FLOORING, SIGNS, GLASS, PORTA-POTTY RENTAL, ETC.

OWNER
ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE

APPROVED BY ALLENSTOWN NH PLANNING BOARD

CHAIRMAN DATE

No.	DESCRIPTION	DATE
1.	MISC REVISIONS PER TOWN REVIEW	12/08/2023
.	.	.
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SITE PLAN

MAP 106, LOT 18-1

GRANITE STREET INDUSTRIAL PARK - BUILDING #2
171 - 179 GRANITE STREET
ALLENSTOWN, NEW HAMPSHIRE 03275

PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE: SEPTEMBER 1, 2023

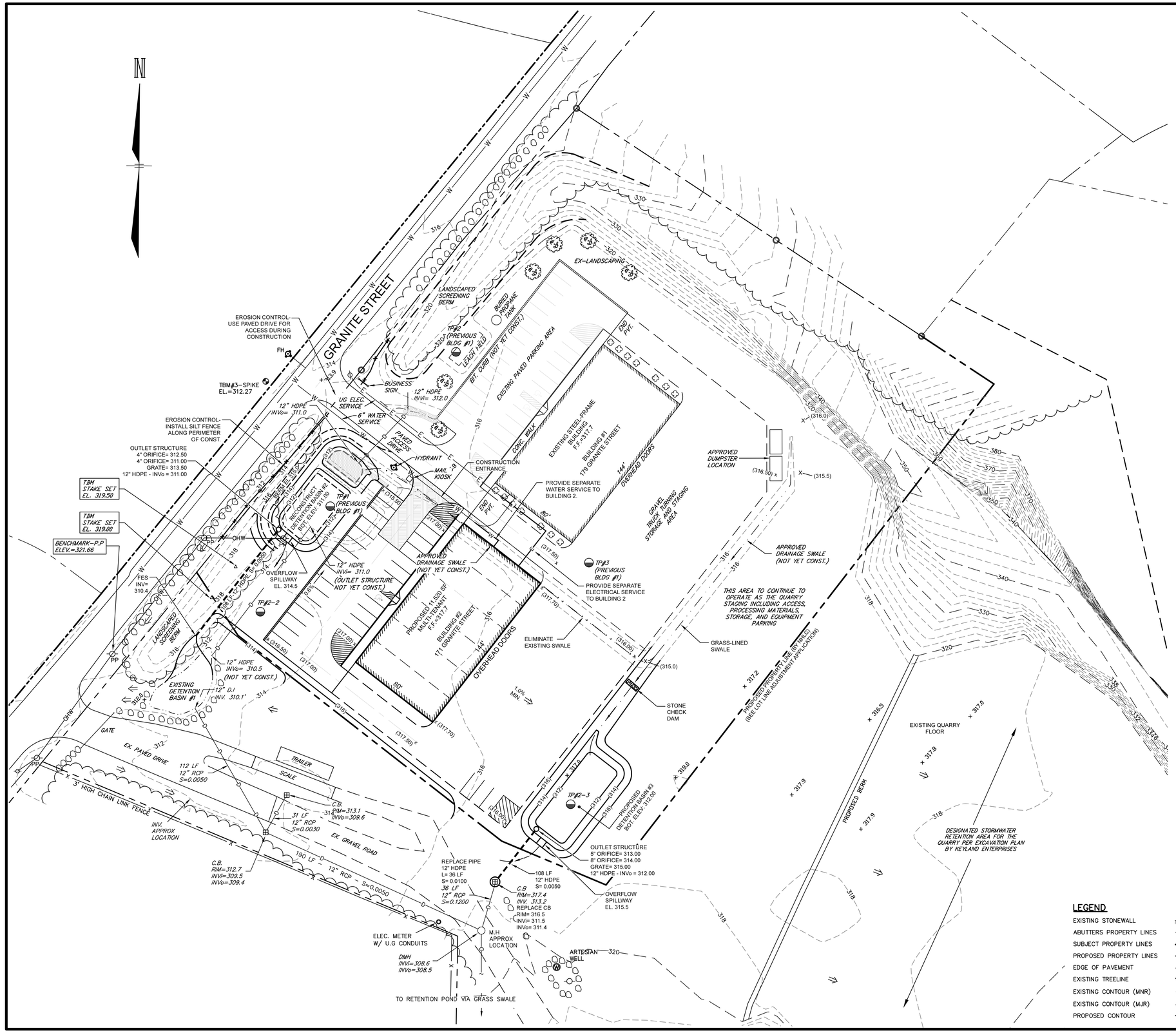
SCALE: AS NOTED

40' 20' 0 40'
SCALE: 1"=40'

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

STATE OF NEW HAMPSHIRE
R. JEFFREY BURD
No.9058
LICENSED PROFESSIONAL ENGINEER

SHEET: 3 of 11



GENERAL NOTES

1. ALL WORK SHALL CONFORM WITH NHDOT SPECIFICATIONS OR TOWN REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
2. ALL IN-PAVEMENT MANHOLES (IF ANY) SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS SHOWN.
3. THE CONTRACTOR SHALL NOTIFY DIG-SAFE TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY DIG-SAFE 72 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES (1-800-344-7233). THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
5. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
6. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS.
7. REFER TO THE TOWN STANDARD DETAILS, LATEST REVISION, FOR ADDITIONAL INFORMATION AND CRITERIA.
8. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING FLOW TO THEM.

STORMWATER MANAGEMENT NOTES

1. THE PROPOSED LAND DISTURBANCE IS APPROXIMATELY 70,000 SF, THEREFOR THE CONTRACTOR IS REQUIRED TO PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMIT AN NOI WITH THE EPA PRIOR TO CONSTRUCTION. SEE SHEET 9 FOR ADDITIONAL APPLICABLE NOTES.
2. THE PROPOSED EFFECTIVE IMPERVIOUS COVER:
   24,055 SF IMPERVIOUS / 217,800 SF TOTAL LOT AREA = 11.0%
   ALLOWED EFFECTIVE IMPERVIOUS COVER = 20%
3. THE PROPOSED STORMWATER TREATMENT SYSTEMS SHOWN ON THIS PLAN SHALL BE MAINTAINED IN ACCORDANCE WITH THE OPERATION & MAINTENANCE PLAN.
4. SEE SHEETS 9 AND 10 FOR EROSION CONTROL DETAILS AND NOTES.

No.	DESCRIPTION	DATE
1.	CORRECT / ADD ADDRESS	12/06/2023
.	.	.
.	.	.

LEGEND

- EXISTING STONEWALL
- ABUTTERS PROPERTY LINES
- SUBJECT PROPERTY LINES
- PROPOSED PROPERTY LINES
- EDGE OF PAVEMENT
- EXISTING TREELINE
- EXISTING CONTOUR (MNR) 572
- EXISTING CONTOUR (MJR) 570
- PROPOSED CONTOUR 570

GRADING, DRAINAGE, & EROSION CONTROL PLAN
STORMWATER MANAGEMENT PLAN
MAP 106, LOT 18-1

GRANITE STREET INDUSTRIAL PARK - BUILDING #2
171 - 179 GRANITE STREET
ALLENSTOWN, NEW HAMPSHIRE 03275

PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE: SEPTEMBER 1, 2023

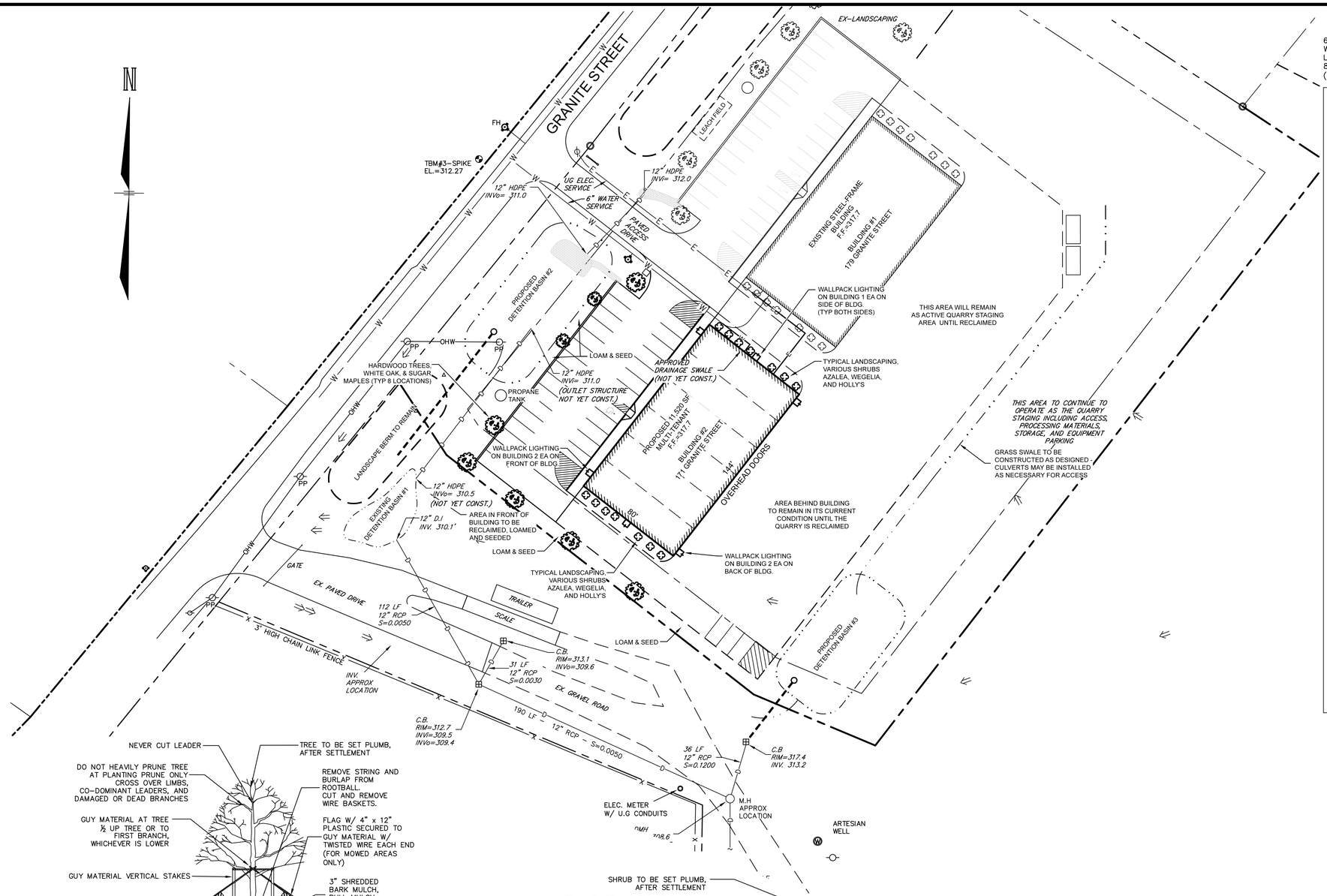
SCALE: AS NOTED

40' 20' 0 40'
SCALE: 1"=40'

STATE OF NEW HAMPSHIRE
R. JEFFREY BURD No.9058
LICENSED PROFESSIONAL ENGINEER

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

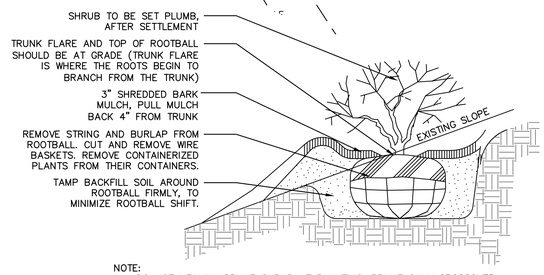
SHEET: 4 of 11



NOTES:
1. GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
2. TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER NEED TO BE STAKED ONLY AS REQUIRED BY LANDSCAPE ARCHITECT.
3. ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT.
4. TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.
5. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
6. CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-OF-WAY, NEED TO BE PLANTED A MINIMUM OF 5 FEET FROM THE EDGE OF THE CITY SIDEWALK.

DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



NOTE:
1. DO NOT HEAVILY PRUNE SHRUB AT PLANTING, PRUNE ONLY CROSSOVER LIMBS AND DAMAGED OR DEAD BRANCHES.
2. BACKFILL WITH LOAM, AMEND AS REQUIRED BY LANDSCAPE ARCHITECT.
3. SHRUBS & GROUNDCOVER PLANTED ADJACENT TO CITY SIDEWALKS NEED TO BE PLACED SO THE PLANTS, AT THEIR MATURE HEIGHT & WIDTH, WILL NOT ENCROACH INTO THE CITY'S SIDEWALK.

TYPICAL SHRUB PLANTING DETAIL

NOT TO SCALE

PLANTING NOTES:

1. REQUIRED NUMBER OF TREES PER THE SITE PLAN REGULATIONS = 1 FOR EACH 900 SF OF FIRST 3,600 SF OF PARKING AREA AND ONE PER 3,600 SF OF PARKING AREA THEREAFTER. TOTAL PARKING AREA = 14,000 SF. THEREFOR NUMBER OF TREES = 7 REQUIRED.
2. TREES AND SHRUBS SHALL NOT BE PLANTED UNTIL ALL OTHER WORK IS SUBSTANTIALLY COMPLETE TO MINIMIZE POSSIBILITY OF DAMAGE OR DISTURBANCE.
3. ALL PLANT MATERIAL SHALL BE GUARANTEED TO BE IN GOOD, HEALTHY CONDITION FOR ONE YEAR FROM THE DATE OF PLANTING. CONTRACTOR SHALL REPLACE, WITHOUT COST TO THE OWNER, ALL DEAD AND NON-FLOURISHING PLANTS. REPLACEMENT PLANTS SHALL BE GAURANTEED IDENTICALLY TO ORIGINAL PLANTS.
4. ALL BEDS TO MULCHED WITH 4" DEPTH SHREDDED BARK MULCH UNLESS OTHERWISE NOTED.
5. CONTRACTOR TO PROVIDE NECESSARY TEMPORARY IRRIGATION IF NEEDED BASED ON TIME OF YEAR THE PROJECT IS IMPLEMENTED.

Lumark

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

DESCRIPTION

The patented Lumark Crosstour™ MAXX LED wall pack series of luminaries provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

SPECIFICATION FEATURES

Construction
Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 58W, 81W and 102W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seal door and back box. Not recommended for car wash applications.

Optical
Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaries are thermally optimized with eight lumen packages in cool 5000K, neutral 4000K, or warm 3000K LED color temperature (CCT).

Electrical
LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 58W, 81W and 102W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

Emergency Egress
Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Area and Site Pole Mounting
Optional extruded aluminum 6-1/2" arm features internal bolt guides for supplied twin support rods, allowing for easy positioning of the fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits 2-3/8" or 3-1/2" O.D. Tenon.

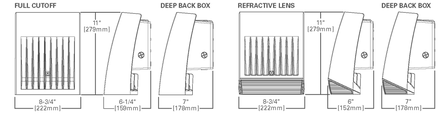
Finish
Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

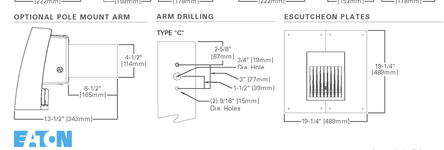
Warranty
Five-year warranty.

XTOR
CROSSTOUR MAXX LED

APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING

DIMENSIONS





EATON
Powering Business Worldwide

*www.designlights.org

CERTIFICATION DATA

UL(cUL) Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated
DesignLights Consortium® Qualified*

TECHNICAL DATA

40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

Effective Projected Area (Sq. Ft.):
XTOR6B, XTOR8B, XTOR12B=0.54
With Pole Mount Arm=0.98

SHIPPING DATA:

Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

TD514005EN
September 17, 2018 3:03 PM

No.	DESCRIPTION	DATE
1.	CORRECT / ADD ADDRESS	12/06/2023
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LIGHTING & LANDSCAPE PLAN

MAP 106, LOT 18-1

GRANITE STREET INDUSTRIAL PARK - BUILDING #2
171 - 179 GRANITE STREET
ALLENSTOWN, NEW HAMPSHIRE 03275

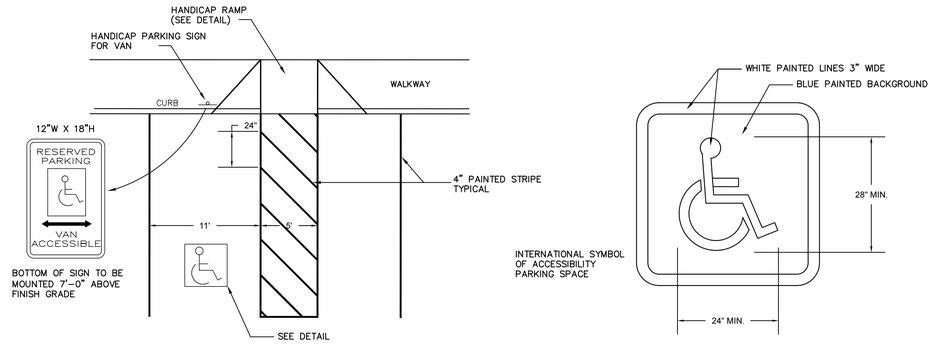
PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE: SEPTEMBER 1, 2023

40' 20' 0 40'
SCALE: 1"=40'

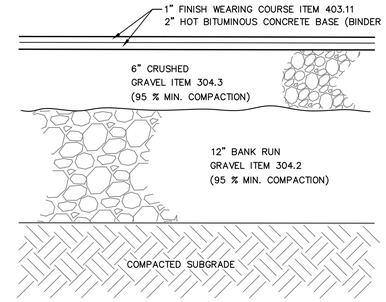
PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

STATE OF NEW HAMPSHIRE
R. JEFFREY BURD
No. 9058
LICENSED
PROFESSIONAL ENGINEER



HANDICAP PARKING STRIPING AND SIGN DETAIL

NOT TO SCALE

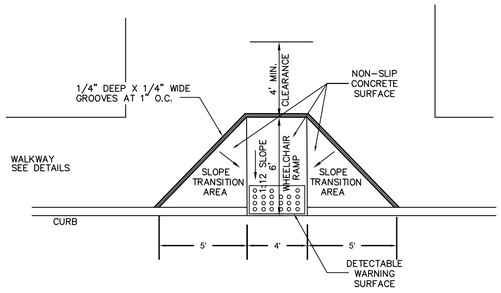


CONSTRUCTION NOTES:

1. REMOVE ALL LOAM, CLAY, MUCK, STUMPS, AND OTHER IMPROPER ROAD FOUNDATION MATERIAL WITHIN 2' OF SUBGRADE. REPLACE WITH COMPACTED GRANULAR FILL MATERIAL ACCEPTABLE TO APPROVING AGENCY. COMPACTION TO BE AT LEAST 95% OF STANDARD PROCTOR.
2. ALL PAVEMENT, BASE MATERIALS AND WORKMANSHIP TO BE IN COMPLIANCE WITH N.H.D.O.T. "STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION.

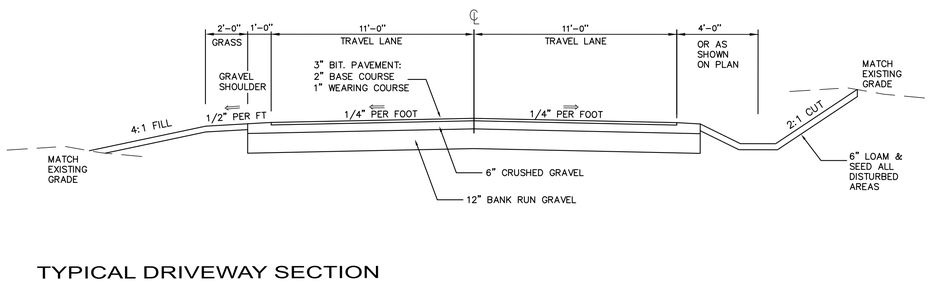
PAVEMENT SECTION

NOT TO SCALE



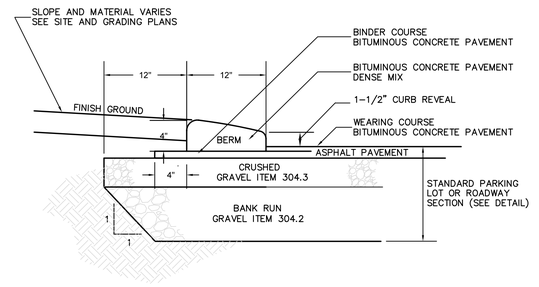
HANDICAP RAMP DETAIL

NOT TO SCALE



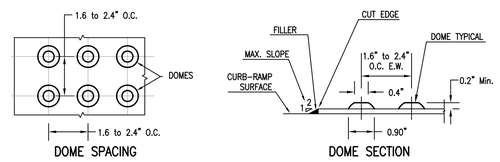
TYPICAL DRIVEWAY SECTION

NOT TO SCALE



CAPE COD CURB (ASPHALT) DETAIL

NOT TO SCALE

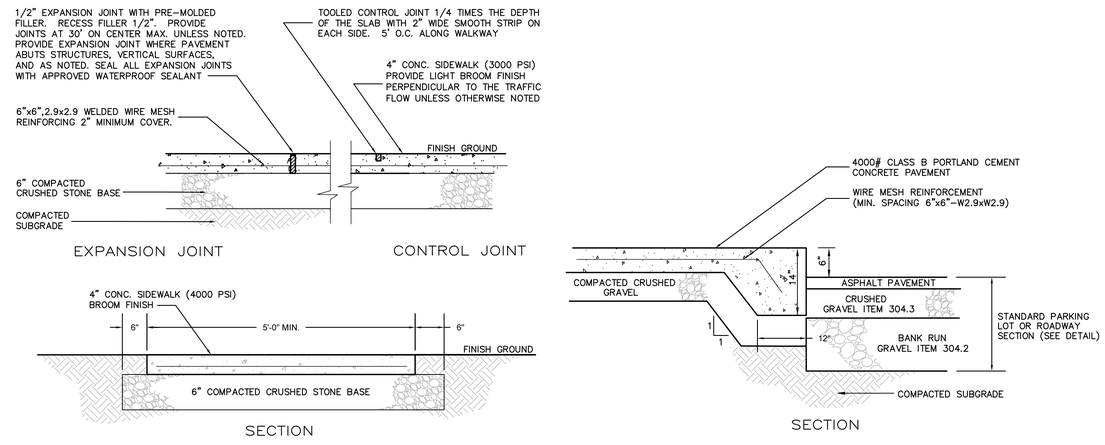


NOTES:

1. DETECTABLE WARNINGS SHALL BE PROVIDED WHERE EVER A CURB RAMP CROSSES A VEHICULAR WAY.
2. DETECTABLE WARNINGS SHALL BE PROVIDED 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. THE DETECTABLE WARNING SHALL BE LOCATED ADJACENT TO THE CURB LINE.
3. DETECTABLE WARNINGS MATERIALS SHALL BE TEXTURED TO PROVIDE SUP RESISTANCE AND SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES – EITHER LIGHT ON DARK OR DARK ON LIGHT. THE PREFERED COLOR FOR A LIGHT BACKGROUND IS RED BRICK AND FOR A DARK BACKGROUND SHALL BE SAFETY YELLOW.
4. DETECTABLE WARNINGS SHALL BE PLACED 6" TO 8" BEHIND THE FACE OF THE CURB JOINT.
5. DETECTABLE WARNING SURFACES SHALL BE SURFACE MOUNTED, THIN MOLDED SHEETGOODS WHICH INCLUDES TILES OR MATS (RIGID OR FLEXABLE, WITH TRUNCATED DOMES), BONDED AND/OR ANCHORED TO THE SURFACE OF THE RAMP. THE SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES GUIDELINES 4.29,10.3.

DETECTABLE WARNING SURFACE

NOT TO SCALE



CONCRETE CURB AT SIDEWALK

NOT TO SCALE

No.	DESCRIPTION	DATE
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CONSTRUCTION DETAILS

MAP 106, LOT 18-1

GRANITE STREET INDUSTRIAL PARK - BUILDING #2
171 - 179 GRANITE STREET
ALLENSTOWN, NEW HAMPSHIRE 03275

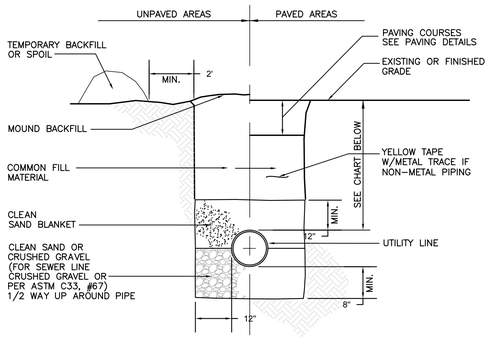
PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE: SEPTEMBER 1, 2023
SCALE: AS NOTED

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

STATE OF NEW HAMPSHIRE
R. JEFFREY BURD
No. 9058
LICENSED PROFESSIONAL ENGINEER

RJ Burd

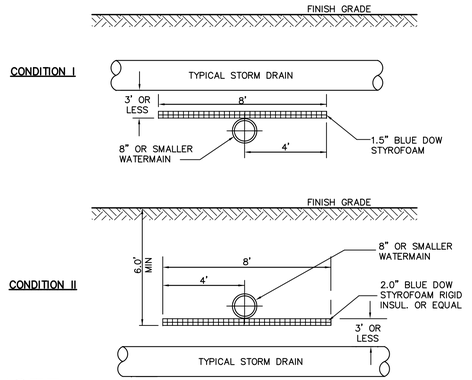


UTILITY	MINIMUM PIPE COVER PAVED AREAS	UNPAVED AREAS
SANITARY SEWER MAIN	6'	4'
STORM DRAIN	2.5'	2'
WATER MAIN	5'	5'

TRENCH DETAIL

FOR SEWER, WATER AND DRAIN LINES

NOT TO SCALE

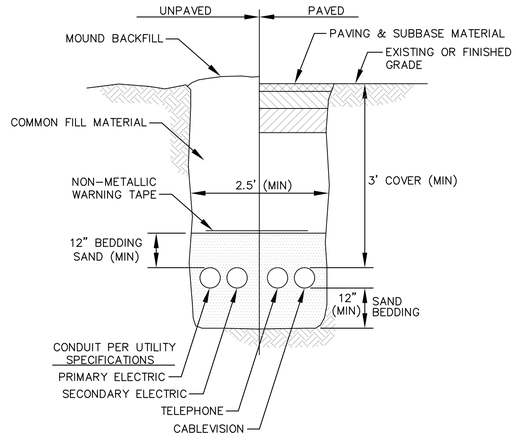


NOTE:

1. THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND AS SHOWN BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION
2. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH A 1' PIECE OF INSULATION CENTERED OVER SEAM.

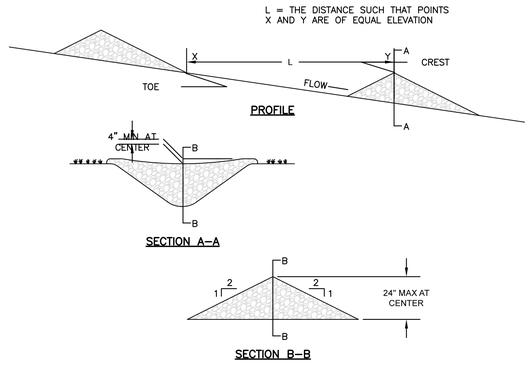
INSULATION AT STORM DRAIN AND WATER MAIN INTERSECTING RUNS

NOT TO SCALE



UTILITY TRENCH DETAIL

NOT TO SCALE



CONSTRUCTION REQUIREMENTS

1. PLACE STONE TO THE LINES, GRADES AND LOCATIONS AS SHOWN ON THE PLAN OR AS DIRECTED.
2. SET SPACING OF STONE CHECK DAMS SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE TO A POINT BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS NEEDED OR DIRECTED.
5. REMOVE STONE, AS DIRECTED, WHEN NO LONGER NEEDED. AFTER BARRIER IS REMOVED, STABILIZE ANY SEDIMENT WHICH IS PERMITTED TO STAY IN PLACE WITH VEGETATION.

STONE CHECK DAM DETAILS (E-3)

NOT TO SCALE

No.	DESCRIPTION	DATE
1.	CORRECT / ADD ADDRESS	12/06/2023
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CONSTRUCTION DETAILS

MAP 106, LOT 18-1

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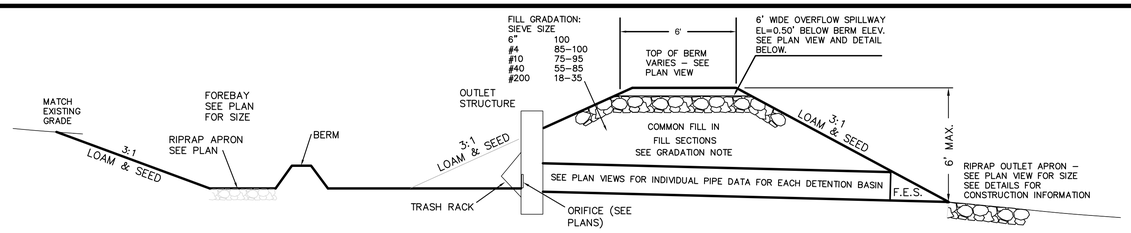
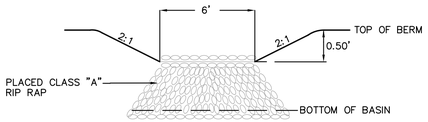


TYPICAL DETENTION BASIN DETAIL-SEE PLAN

SECTION NOT TO SCALE



TYPICAL EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

DETENTION BASIN CONSTRUCTION NOTES

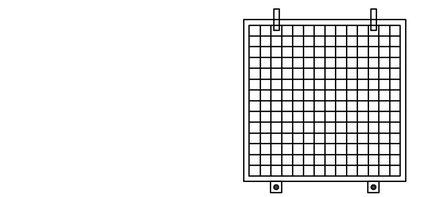
1. THE FOUNDATION AREA SHALL BE CLEARED OF TREES. LOGS, STUMPS, ROOTS, BRUSH. BOULDERS, SOD AND RUBBISH. SCARIFY SURFACE BEFORE PLACING FILL. THE AREA SHALL BE MOIST FOR GOOD BONDING OF THE NEW FILL. KEEP STANDING WATER FROM FORMING ON OR NEAR THE FILL AREA.
2. THE FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD, ROOTS, FROZEN SOIL, STONES LARGER THAN 6 INCHES AND OTHER OBJECTIONABLE MATERIAL. CRUSHED GRAVEL (3/4") SHALL BE PLACED AROUND PIPES AND CONCRETE STRUCTURES.
3. THE PLACING AND SPREADING OF FILL SHALL BE STARTED AT THE LOWEST POINT IN THE BERM AREA AND BROUGHT UP IN HORIZONTAL LAYERS (LIFTS) OF ABOUT 12" SO THAT REQUIRED COMPACTION CAN BE OBTAINED. THE DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS OR LAYERS OF MATERIAL DIFFER SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL.
4. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE REQUIRED COMPACTION.
5. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER AREAS OR EACH LAYER OF FILL TO INSURE REQUIRED COMPACTION. USE SPECIAL EQUIPMENT IF NECESSARY. FILL ADJACENT TO PIPES AND STRUCTURES SHALL BE COMPACTED BY HAND TAMPING OR PLATE VIBRATOR. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL CONCRETE HAS CURED STRONG ENOUGH TO SUPPORT THE LOAD.
6. FOR PROTECTION ALL EXPOSED AND DISTURBED SURFACES SHALL HAVE A COVER OF VEGETATION, PREFERABLY TOPSOIL AND SEED. FOLLOW SEEDING SPECIFICATIONS AND GENERAL NOTES IN THE EROSION CONTROL DETAILS SECTION IN THIS PLANSET.

SAFETY

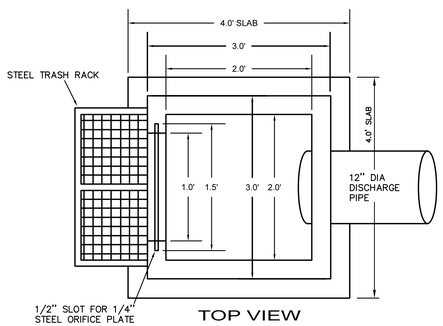
1. PONDS THAT ARE EASILY ACCESSIBLE IN POPULATED AREAS SHOULD INCORPORATE ALL POSSIBLE SAFETY PRECAUTIONS. DUE TO ONLY TEMPORARY WATER LEVELS IN THESE BASINS, FENCING IS NOT NECESSARY.

MAINTENANCE

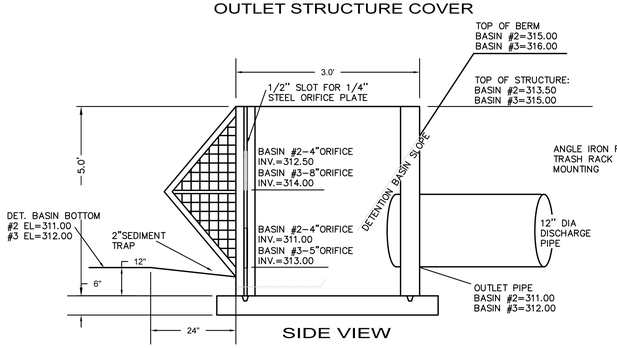
1. THE BOTTOMS, INTERIOR, AND EXTERIOR SIDE SLOPES, AND CREST OF THE BASIN SHOULD BE MOWED, AND THE VEGETATION MAINTAINED IN A HEALTHY CONDITION, AS APPROPRIATE TO THE FUNCTION OF THE FACILITY AND TYPE OF VEGETATION.
2. THE VEGETATED EMBANKMENT THAT SERVES AS A BERM SHOULD BE MOWED AT LEAST ONCE ANNUALLY TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION.
3. THE SLOPES SHOULD BE INSPECTED AS NEEDED BY A QUALIFIED PROFESSIONAL FOR SETTLEMENT, EROSION, ANIMAL BURROWS, WOODY VEGETATION, AND OTHER CONDITIONS THAT COULD DEGRADE THE EMBANKMENT AND REDUCE ITS STABILITY FOR IMPOUNDING WATER. IMMEDIATE CORRECTIVE ACTION SHOULD BE IMPLEMENTED IF ANY SUCH CONDITIONS ARE FOUND.
4. PIPE INLETS AND SPILLWAY STRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. IMMEDIATE CORRECTIVE ACTION SHOULD BE IMPLEMENTED AS INDICATED BY THE INSPECTION.
5. PIPE OUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE, THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE OUTLET.
6. ACCUMULATED TRASH, DEBRIS, AND SEDIMENT SHOULD BE REMOVED FROM THE BASIN AND ANY INLET OR OUTLET STRUCTURE AS NECESSARY.
7. SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN AND SHOULD BE REMOVED WHEN IT SIGNIFICANTLY AFFECTS THE BASIN CAPACITY.



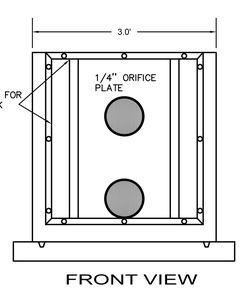
OUTLET STRUCTURE COVER



TOP VIEW



SIDE VIEW



FRONT VIEW

CONSTRUCTION SPECIFICATIONS

1. STRUCTURE SHALL BE PRECAST OR POURED IN PLAN CONCRETE WITH 6" THICK WALLS.
2. BASE SLAB SHALL BE A MINIMUM OF 6" PRECAST OR POURED IN PLAN CONCRETE WITH KEY WAYS.
3. ALL SECTION AND PIPE JOINTS SHALL BE SEALED WITH MORTAR.
4. ALL PARTS AND GRATES FOR OUTLET STRUCTURES SHALL BE STAINLESS STEEL AND/OR HOT DIPPED GALVANIZED COATED.

DETENTION BASIN OUTLET STRUCTURE

SECTION NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

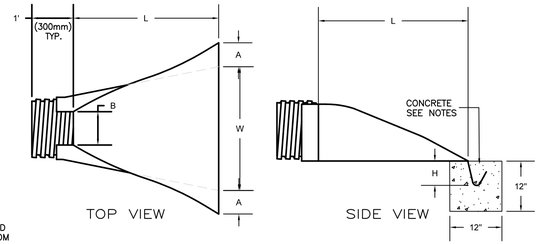
PREPARE BEDDING:
BACKFILL MATERIAL AROUND THE END SECTION MAY BE THE SAME AS THE MATERIAL AROUND THE PIPE, PLACE A FEW INCHES OF BACKFILL MATERIAL IN THE TRENCH OR DITCH WHERE THE END SECTION WILL BE PLACED. COMPACT AND CONTOUR THIS BEDDING MATERIAL TO GENERALLY MATCH THE END SECTION, EXCAVATE AN AREA IN THE BEDDING WHERE TOE TROUGH WILL SEAT SO THAT THE END SECTION WILL BE LEVEL WITH THE BOTTOM OF THE TRENCH OR DITCH IN THE FINISHED INSTALLATION.

PLACE END SECTION OF PIPE:
OPEN THE END SECTION COLLAR AND SEAT IT OVER THE TWO PIPE CONNECTIONS. ONCE THE END SECTION IS POSITIONED, CHECK TO MAKE SURE THAT THE INVERT OF THE END SECTION MATCHES THE INVERT OF THE PIPE AND THAT THE END SECTION IS LEVEL WITH THE TRENCH OR DITCH BOTTOM.

SECURE THE END SECTION:
SLIP THE STAINLESS STEEL ROD THROUGH THE PRE–DRILLED HOLES AT THE TOP OF THE COLLAR. THE ROD SHOULD BE BETWEEN THE CROWNS OF THE TWO PIPE CONNECTIONS. PLACE A WASHER ON EITHER END OF THE ROD. PLACE A NUT ON EITHER END OF THE ROD AND TIGHTEN WITH A WRENCH.

SECURE THE TOE TROUGH:
TO PREVENT WASHOUTS FROM HIGH VELOCITY FLOW, IT IS RECOMMENDED THAT THE TROUGH BE SECURED WITH CONCRETE. POUR CONCRETE IN THE TROUGH UP TO THE LEVEL OF THE TRENCH OR DITCH BOTTOM AND ALONG THE ENTIRE LENGTH OF THE TROUGH.

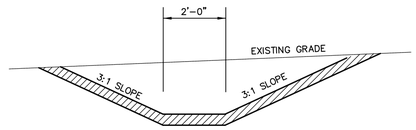
FINISH BACKFILL:
SHOVEL BACKFILL AROUND THE END SECTION IN 6 TO 9 INCH LAYERS EQUALLY ON BOTH SIDES, KNIFING IT TO ELIMINATE VOIDS. TAMP WITH A SMALL–FACED COMPACTOR OR OTHER EQUIPMENT SUITABLE FOR SMALL AREAS. CONTINUE PLACING, KNIFING, AND COMPACTING BACKFILL LAYERS TO THE TOP OF THE END SECTION TO SEAT IT WELL INTO THE BACKFILL.



	DIMENSIONS, INCHES (mm)						
PIPE DIAMETER	PART NO.	A, ±1 (25)	B MAX	H, ±1 (25)	L, ±1/2 (13)	W, ±2 (50)
12", 15" (300,375)	1210 NP	6.5 (165)	10 (254)	6.5 (165)	25 (635)	29 (736)
18" (450)	1810 NP	7.5 (190)	15 (380)	6.5 (168)	32 (812)	35 (890)
24" (600)	2410 NP	7.5 (190)	18 (450)	6.5 (165)	36 (900)	45 (1140)
30" (750)	3010 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)
36" (900)	3610 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)

FLARED END SECTION

HIGH DENSITY POLYETHYLENE (HDPE) NOT TO SCALE

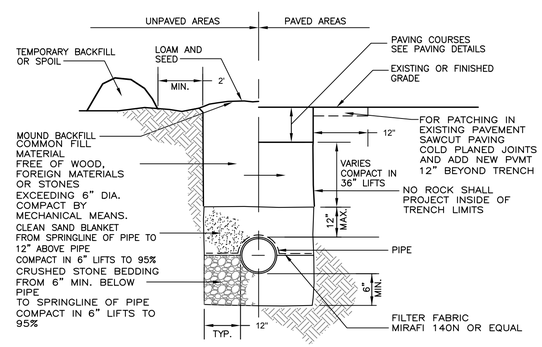


NOTE:

1. 6" LOAM AND SEED ENTIRE DITCH LINING AND ANY ADJACENT DISTURBED AREAS.
2. ANY SWALES GREATER THAN 5% IN SLOPE SHALL HAVE AN EROSION CONTROL BLANKET APPLIED THAT IS SUITABLE FOR DITCHES.

GRASS LINED SWALE DETAIL

NOT TO SCALE



NOTE:

COMPACTION EXPRESSED AS A PERCENTAGE OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR).

DRAINAGE TRENCH DETAIL

FOR DRAIN LINES NOT TO SCALE

No.	DESCRIPTION	DATE
1.	CORRECT / ADD ADDRESS	12/06/2023
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DRAINAGE DETAILS

MAP 106, LOT 18–1

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DATE: SEPTEMBER 1, 2023
SCALE: AS NOTED

STATE OF NEW HAMPSHIRE R. JEFFREY BURD No.9058 LICENSED PROFESSIONAL ENGINEER

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
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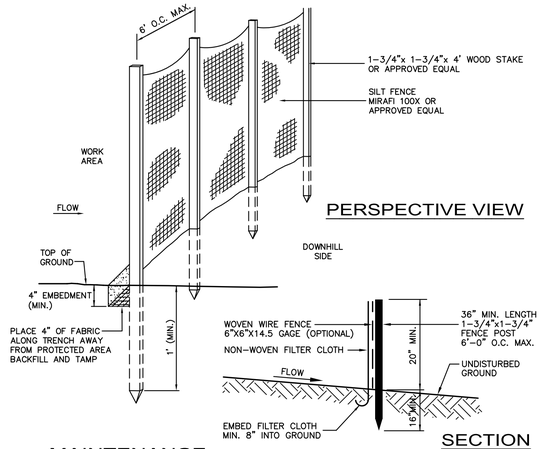


PERSPECTIVE VIEW

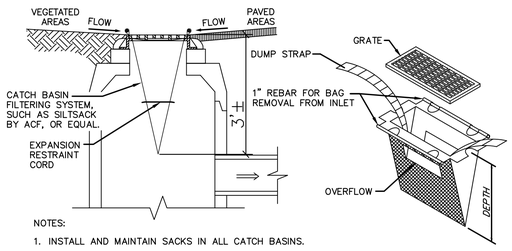
SECTION

MAINTENANCE

1. SILT FENCES ARE TO BE INSPECTED IMMEDIATELY AFTER EVERY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED, SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT FENCE DETAIL

NOT TO SCALE

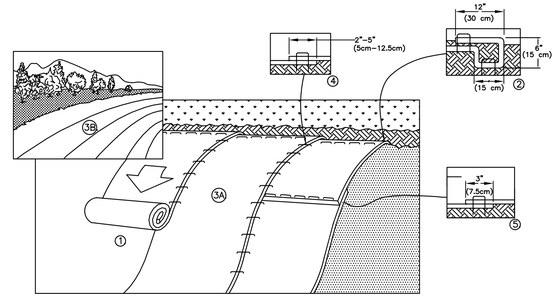


NOTES:

1. INSTALL AND MAINTAIN SACKS IN ALL CATCH BASINS.
2. TO INSTALL SACK, REMOVE CATCH BASIN GRATE AND PLACE SACK IN OPENING. HOLD OUT APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME FOR THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
3. THE SACK SHOULD BE INSPECTED AFTER EVERY STORM, OR ONCE EVERY TWO WEEKS, WHICH EVER OCCURS FIRST.
4. THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SACK SHOULD BE EMPTIED. EMPTY THE SACK AWAY FROM THE CATCH BASIN TO PREVENT SEDIMENT FROM RE-ENTERING THE CATCH BASIN. EMPTY THE SACK PER THE MANUFACTURES RECOMMENDATIONS.
5. REPLACE THE SACK IN THE CATCH BASIN AFTER THE SACK HAS BEEN EMPTIED. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED BY PAVING OR A HEALTHY VEGETATIVE COVER, REMOVE THE SACK FROM THE CATCH BASINS.

"SILT-SAK" SEDIMENT CONTROL

NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™ STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH™ ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

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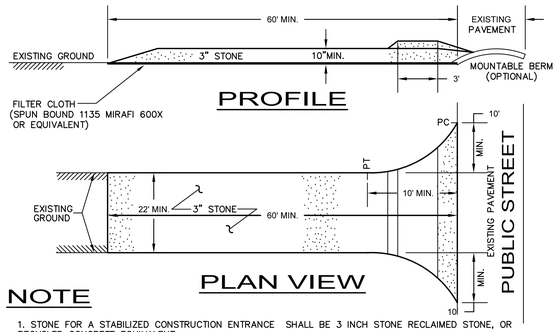
NOTE:
FOR 2:1 SLOPES OVER 20' HIGH USE TEMPORARY BLANKET S150
FOR 2:1 SLOPES LESS THAN 20' HIGH USE TEMPORARY BLANKET S75

SLOPE INSTALLATION

FOR EROSION CONTROL

NOT TO SCALE

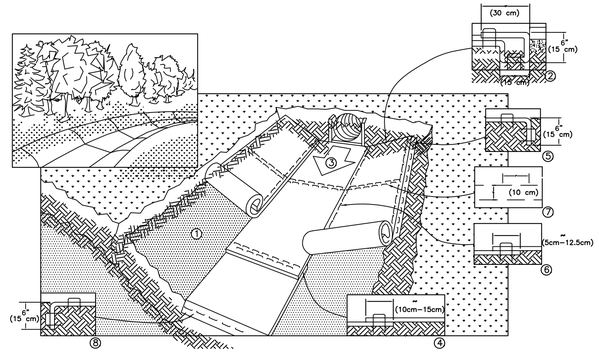


NOTE

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL BE NOT LESS THAN 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50' IF A 3" TO 6" HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



NORTH AMERICAN GREEN

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™ STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH™ ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

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CHANNEL INSTALLATION

FOR EROSION CONTROL

NOT TO SCALE

NOTES:

1. SLOPE AND CHANNEL MATTING SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.
2. ALL EROSION CONTROL PRACTICES SHALL BE INSTALLED PER THE NH STORMWATER MANUAL, VOLUME 3.
3. AS THIS PROJECT IS WITHIN THE ACTIVE QUARRY, EROSION CONTROL SHALL BE INSTALLED AT THE OWNERS DISCRETION BASED ON UP TO DATE SWPPP INSPECTIONS. THE DETAILS ON THIS SHEET ARE FOR REFERENCE SHOULD ANY EROSION CONTROL BE WARRANTED. THE OWNER IS NOT OBLIGATED TO USE THESE DETAILS.

No.	DESCRIPTION	DATE
1.	CORRECT / ADD ADDRESS	12/06/2023
.	.	.
.	.	.

EROSION CONTROL DETAILS

MAP 106, LOT 18-1

GRANITE STREET INDUSTRIAL PARK - BUILDING #2
171 - 179 GRANITE STREET
ALLENSTOWN, NEW HAMPSHIRE 03275

PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE: SEPTEMBER 1, 2023

SCALE: AS NOTED

STATE OF NEW HAMPSHIRE
R. JEFFREY BURD
No. 9058
LICENSED PROFESSIONAL ENGINEER

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

GENERAL NOTES:

1. PROJECT ENGINEER: RJB ENGINEERING, LLC, 2 GLENDALE ROAD, CONCORD, NH 03301
   PROJECT SURVEYOR: NEW HAMPSHIRE LAND CONSULTANTS PLLC., 683C FIRST NH TURNPIKE (RT.4), NORTHWOOD, NH 03261
2. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN REGULATIONS AND THE LATEST EDITION OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
3. IF, DURING CONSTRUCTION IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRACTOR, DEVELOPER OR OWNER ARE RESPONSIBLE TO DOCUMENT THE APPARENT DEFICIENCIES AND NOTIFY THE DESIGN ENGINEER PRIOR TO CONTINUING CONSTRUCTION ACTIVITIES. THE DESIGN ENGINEER, IN COOPERATION WITH THE CONTRACTOR, DEVELOPER OR OWNER WILL RESOLVE THE APPARENT DEFICIENCIES TO MEET APPLICABLE TOWN REGULATIONS.
4. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED, THE CONTRACTOR, DEVELOPER OR OWNER SHALL BE REQUIRED TO INSTALL ADDITIONAL EROSION PROTECTION MEASURES.
5. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO VERIFY THE LOCATION OF ALL UTILITIES OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR. (DIG SAFE NUMBER PROVIDED ON SHEET 1)
6. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AT ALL TIMES.
7. NO EXCAVATED AREA SHALL BE LEFT UNATTENDED AND SHALL BE THOROUGHLY SECURED ON A DAILY BASIS.
8. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENT AND INTENT OF RSA 430:53 AND CHAPTER Agr 3800 RELATIVE TO INVASIVE SPECIES.

CONSTRUCTION SEQUENCE:

1. CUT AND CLEAR TREES WITHIN LIMIT OF WORK (PROPOSED TREELINE), UNLESS OTHERWISE NOTED. ALL STUMPS, BRANCHES, TOPS AND BRUSH TO BE PROPERLY DISPOSED OF, PREFERABLY OFF SITE.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS SHOWN AND DETAILED IN THIS PLAN SET.
3. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES (DETENTION BASIN, DIVERSION BERM, GRASS SWALE) PRIOR TO ANY EARTH MOVING OPERATION.
4. ALL SWALES AND DITCH LINES SHALL BE PROTECTED FROM EROSION. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
5. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING THE SITE).
6. ALL STORM DRAINAGE SYSTEMS SUCH AS DETENTION/RETENTION BASINS AND SWALES SHALL BE PROTECTED FROM EROSION. ALL STORM DRAINAGE SYSTEMS SHALL BE STABILIZED PRIOR TO DIRECTING FLOW INTO THEM.
7. NO CATCH BASIN FRAME AND GRATE SHALL BE INSTALLED PRIOR TO PAVING (IF APPLICABLE). ALL DRAINAGE STRUCTURES ARE TO BE "PLATED" AND CUT OUT FOLLOWING PAVING OPERATIONS, ONLY IF ALL DOWNSTREAM DRAINAGE ELEMENTS ARE STABLE, INCLUDING, BUT NOT LIMITED TO OUTLET PROTECTION, ALL SLOPE GRADING, VEGETATED OR RIPRAP SWALES, DETENTION BASIN AND TREATMENT SWALES.
8. IF FRAME AND GRATES ARE INSTALLED, SPECIFIC SOIL EROSION MEASURES MUST BE INSTALLED SUCH AS GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER OR BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER.
9. CONSTRUCT TEMPORARY CULVERTS, DIVERSION DITCHES/SWALES OR BERMS AS REQUIRED TO MINIMIZE THE EROSIVE AFFECTS OF STORMWATER RUNOFF DURING ALL CONSTRUCTION ACTIVITIES. TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL AREAS STABILIZED.
10. COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND DEBRIS SHALL BE PROPERLY DISPOSED OF, PREFERABLY OFF SITE.
11. ALL MATERIAL SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED IN UPLANDS AREAS. ALL STOCKPILES SHALL BE SEEDED WITH WINTER RYE AND IF NECESSARY, SURROUNDED WITH SILT FENCE, AND/OR STRAW BALES, IN ORDER TO PREVENT OR CONTAIN SOIL EROSION.
12. ALL MATERIAL SUITABLE FOR FILL OR SELECT MATERIAL SHALL BE STOCKPILED IN UPLANDS AREAS. ALL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE, AND/OR STRAW BALES, IN ORDER TO CONTAIN SOIL EROSION.
13. REMOVE ALL IMPROPER ROADWAY/SITE FOUNDATION MATERIAL WITHIN 18" OF SUBGRADE. REPLACE WITH COMPACTED GRANULAR FILL ACCEPTABLE TO THE STATE/TOWN SPECIFICATIONS. ALL SUITABLE FILL MATERIAL SHALL BE COMPACTED TO AT LEAST 95% OF THE DRY WEIGHT AS DETERMINED BY MODIFIED PROCTOR TESTING (ASTM D-1556) REQUIREMENTS.
14. CONSTRUCT ALL UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO DRAIN, DATA, CABLE AND POWER.
15. ROUGH GRADE SITE WITHIN LIMIT OF WORK AND COMMENCE CONSTRUCTION OF ROADWAY.
16. SITE SHALL BE STABILIZED WITHIN 72 HOURS OF FINISHED GRADE.
17. COMPLETE ROADWAY SLOPE GRADING/EMBANKMENT CONSTRUCTION. ALL SLOPES SHALL BE STABILIZED AND SEEDED IMMEDIATELY AFTER GRADING. THE CONTRACTOR SHALL STABILIZE SLOPES WITH APPROPRIATE SEEDING PROGRAM OR JUTE MAT, WHEREVER SPECIFIED. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
18. APPLY TOPSOIL TO SITE SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION. TOPSOIL USED MAY BE NATIVE ORGANIC MATERIAL SCREENED AS TO BE FREE FROM ROOTS, BRANCHES, STONES, AND OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL BE APPLIED SO AS TO PROVIDE A MINIMUM OF A 4-INCH COMPACTED THICKNESS. UPON COMPLETION OF TOPSOILING, FINISHED SECTIONS ARE TO BE LIMED, SEEDED, AND MULCHED. THE CONTRACTOR SHALL INSPECT COMPLETED SECTIONS OF WORK ON A REGULAR BASIS AND REMEDY ANY PROBLEM AREAS UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
19. PERFORM FINAL PAVING OPERATIONS (IF APPLICABLE), INSTALL GUARDRAIL (IF APPLICABLE) AS SHOWN ON THE APPROVED PLANS.
20. MAINTAIN, REPAIR, AND REPLACE TEMPORARY EROSION CONTROL MEASURES AS NECESSARY FOR A MINIMUM PERIOD OF 12 MONTHS FOLLOWING SUBSTANTIAL COMPLETION.
21. AFTER STABILIZATION (12 MONTHLY FOLLOWING SUBSTANTIAL COMPLETION), REMOVE AND PROPERLY DISPOSE OF TEMPORARY EROSION CONTROL MEASURES, PREFERABLY OFF SITE.
22. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

DEFINITION OF THE WORD STABLE: AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURED:

A: BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.

B: A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED.

C: A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED.

D: OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERY INSTALLED.

23. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.

WINTER CONSTRUCTION NOTES

A.. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

C. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

SEEDING SPECIFICATIONS

MIXTURE	POUNDS/ACRE	POUNDS/1,000 SF
TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFOIL	8	0.20
TOTAL	48	1.10

1. SEEDBED PREPARATION
   A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
   B. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT FOUR INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
2. ESTABLISHING A STAND
   A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
      - AGRICULTURAL LIMESTONE: 2 TONS PER ACRE OR 0.09 LBS. PER SQ. FT.
      - NITROGEN (N): 50 LBS. PER ACRE OR 1.1 LBS. PER 1000 SQ. FT.
      - PHOSPHATE (P_2O_5): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
      - POTASH (K_2O): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.

      (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10)
   B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH 0.25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
   C. REFER TO TABLE 7-35 OF "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE", FOR APPROPRIATE SEED MIXTURES AND TABLE 7-36 FOR RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT TREFOIL, AND FLATPEA), MUST BE INOCULATED WITH THEIR SPECIFIC INNOCULANT.
   D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
3. MULCH
   A. STRAW, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
   B. MULCH WILL BE HELD IN PLACE USING TECHNIQUES FROM THE "BEST MANAGEMENT PRACTICE FOR MULCHING", AS SHOWN IN, "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".
4. MAINTENANCE TO ESTABLISH A STAND
   A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
   B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
   C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

TEMPORARY SEEDING RATES:

- FOR FALL SEEDING (SEED FROM AUGUST 15 – SEPTEMBER 5 FOR BEST COVER):
  WINTER RYE: 2.5 LBS PER 1,000 SF SEED TO A DEPTH OF 1 INCH
- FOR SPRING SEEDING (SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION)
  OATS: 2 LBS PER 1,000 SF
  SEED TO A DEPTH OF 1 INCH
- ALTERNATIVE:
  PERENNIAL REYGRASS: 0.7 LBS PER 1,000 SF
  SEED BETWEEN APRIL 1 AND JUNE 1 AND/OR BETWEEN
  AUGUST 15 AND SEPTEMBER 15)
  MULCHING WILL ALLOW SEEDING THROUHGOUT THE GROWING SEASON.
  SEED TO A DEPTH OF 0.5 INCHES
- 10-10-10 FERTILIZER SHOULD BE UNIFORMERLY SPREAD OVER AREA PRIOR TO BE INCORPORATED INTO THE SOIL AT A MINIMUM OF 7 LBS PER 1,000 SF
- TOP SOIL: 6" MINIMUM APPROVED TOPSOIL
  STRAW MULCH – 2 BALES PER 1,000 SF
  APPLY BINDER OF NETTING AS NEEDED

EPA: NPDES GENERAL NOTES

1. THE PROPOSED LAND DISTURBANCE IS APPROXIMATELY 85,000 SF., THEREFORE, ACCORDING TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II CONSTRUCTION GENERAL PERMIT (CGP) SECTION 1.1, THIS PROJECT IS REQUIRED TO COMPLY WITH THE REGULATORY CRITERIA AND INTENT OF THE NPDES PHASE II PROGRAM, LATEST EDITION. SITE AREA EXCEEDS 43,560 SF (1 ACRE OF DISTURBANCE).
2. THE OWNER AND CONTRACTOR ARE REQUIRED TO PREPARE, MAINTAIN AND HAVE ON FILE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
3. THE OWNER AND CONTRACTOR ARE REQUIRED TO PREPARE, SUBMIT, POST ON SITE AND HAVE ON FILE A NOTICE OF INTENT (NOI). CONSTRUCTION MAY NOT COMMENCE UNTIL 14 DAYS AFTER EPA HAS REVIEWED/APPROVED THE PROJECT NOI, WHICH GRANTS COVERAGE UNDER THE CGP (NHR100000).
4. THE CONTRACTOR/OWNER IS RESPONSIBLE TO POST THE NOI ON SITE IN A HIGHLY VISIBLE POSITION, PROTECTED FROM THE WEATHER.
5. THE OWNER AND CONTRACTOR ARE REQUIRED TO INSTALL, INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES AS DESCRIBED ON THE APPROVED PLANS AND SWPPP INCLUDING INSPECTION LOGS.
6. THE OWNER OR CONTRACTOR MAY CONTACT THE NORTHEAST EPA REGIONAL COORDINATOR FOR RESOLUTION TO ANY NPDES, CGP, SWPPP, NOI OR NOTE QUESTIONS, CONCERNS OR CLARIFICATION:

   EPA REGIONAL REPRESENTATIVE: MS. THELMA MURPHY (OR CURRENT REPRESENTATIVE)
   US EPA, REGION 01/OFFICE OF ECOSYSTEM PROTECTION
   1 CONGRESS STREET, SUITE 1100
   BOSTON, MA 02114-2023
   PHONE: (617) 918-1615
7. THE PROPOSED PROJECT WILL NOT REQUIRE STATE (NHDES) ALTERATION OF TERRAIN PERMIT, SINCE THE ANTICIPATED LAND DISTURBANCE IS LESS THAN 100,000 SF
8. THE PROPOSED PROJECT WILL NOT REQUIRE A STATE (NHDES) DREDGE AND FILL PERMIT, SINCE THE PROJECT DOES NOT HAVE WETLAND DISTURBANCES

EROSION CONTROL NOTES

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS (EPA, NHDES AND TOWN REGULATIONS). THE GENERAL NOTES AND DETAILS CONTAINED IN THIS PLAN SERVE AS A GUIDE ONLY.

1. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS. INSTALLATION OF SILTATION FENCES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY SPECIFIC AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
3. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. ALL ROADWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE. CUT AND FILL SLOPES SHALL BE LOAMED & SEEDED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE. TEMPORARY AND/OR PERMANENT STABILIZATION SHALL BE INSTALLED WITHIN 45 DAYS OF INITIAL CONSTRUCTION.

   AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURED:
   a. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED
   b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
   c. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED
   d. OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED

   TIME LIMIT: ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
4. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 6" OF LOAM INSTALLED WITH NOT LESS THAN 1.1 POUNDS OF SEED MIX PER 1,000 SQ. FT. SEE SEEDING SPECIFICATIONS ON THIS SHEET
5. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF SPREADING THE SOIL. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
6. STRAW MULCH OR JUTE MATTING SHALL BE USED IF/WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
8. TO CONTROL DUST DURING CONSTRUCTION, WATER DISTRIBUTION SHALL BE USED.
9. LIMIT THE LENGTH OF EXPOSURE OF UNSTABILIZED SOIL TO 45 DAYS OR LESS.
10. EROSION CONTROL PRACTICES ARE TO BE INSPECTED WEEKLY AND AFTER 0.5" OF RAINFALL.
11. TEMPORARY WATER DIVERSION (SEDIMENT BASINS, SWALES, ETC.) MUST BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
12. TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE CONSTRUCTION / DISTURBANCE IS COMPLETE

No.	DESCRIPTION	DATE
1.	CORRECT / ADD ADDRESS	12/06/2023
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EROSION CONTROL NOTES

MAP 106, LOT 18-1

GRANITE STREET INDUSTRIAL PARK - BUILDING #2
171 - 179 GRANITE STREET
ALLENSTOWN, NEW HAMPSHIRE 03275

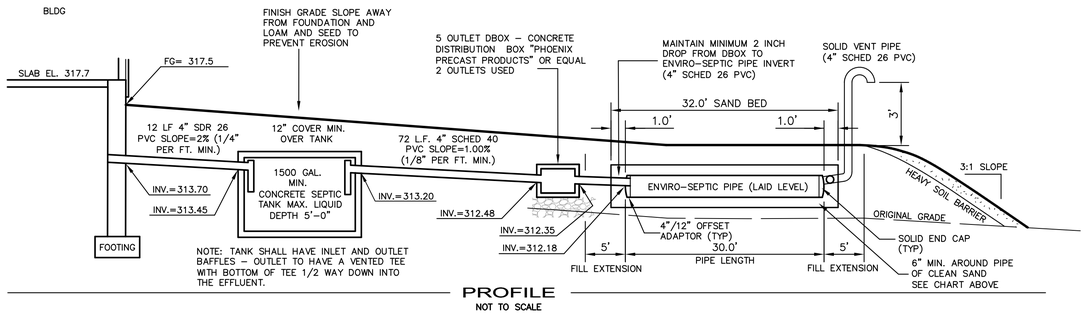
PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE: SEPTEMBER 1, 2023
SCALE: AS NOTED

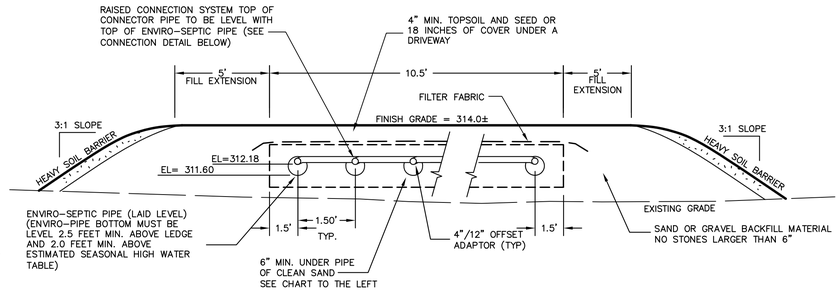
STATE OF NEW HAMPSHIRE
R. JEFFREY BURD
No. 9058
LICENSED PROFESSIONAL ENGINEER

PREPARED BY:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

SHEET: 10 of 11



PROFILE
NOT TO SCALE



CROSS SECTION
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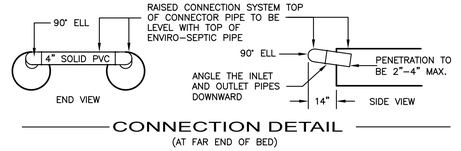
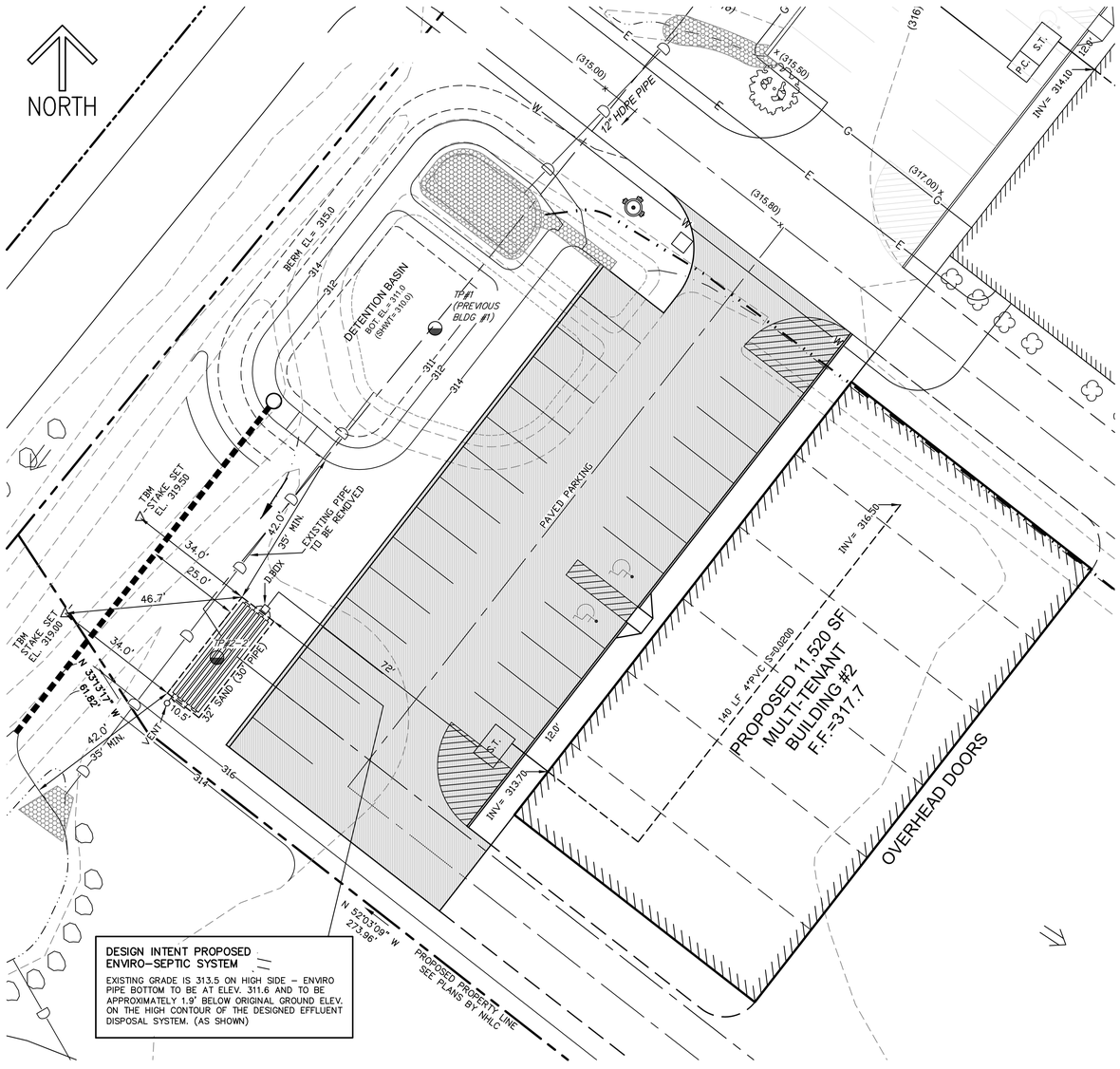


CONNECTION DETAIL
(AT FAR END OF BED)



TEST PIT DATA

TEST PIT 2–2 (AUGUST 10, 2023)

0–30" GRAVEL FILL – NO LOAM

30–84" BROWNISH YELLOW (10YR 6/6) LOAMY SAND GRANULAR, FRIABLE

84–108"LIGHT OLIVE BROWN (2.5Y 5/3) LOAMY SAND GRANULAR, FIRM, MOIST

E.S.H.W.T. = 60"
WATER: NONE OBSERVED
LEDGE: NONE OBSERVED
TEST PIT BOTTOM=108"
PERC RATE = 4 MIN/IN

SYSTEM SAND REQUIREMENT

(PRESBY MANUAL)
SYSTEM SAND MUST BE CLEAN, GRANULAR SAND FREE OF ORGANIC MATTER AND MUST ADHERE TO THE FOLLOWING PERCENTAGE AND QUALITY RESTRICTIONS:

SIEVE SIZE	PERCENT RETAINED ON SIEVE (BY WEIGHT)
3/4 IN (19mm)	0
#10 (2 mm)	0–35
#35 (0.50 mm)	40–90

NOT MORE THAN 3% ALLOWED TO PASS THE #200 SIEVE (VERIFIED BY WASHING SAMPLE PER REQUIREMENTS OF ASTM C–117)

(PRESBY MANUAL) SYSTEM SAND ACCEPTABLE ALTERNATIVE ASTM C–33 (CONCRETE SAND), NATURAL OR MANUFACTURED SAND, WITH NOT MORE THAN 3% PASSING THE #200 SIEVE (VERIFIED BY WASHING THE SAMPLE PER THE REQUIREMENTS OF ASTM C–117 AS NOTED IN THE ASTM C–33 SPECIFICATION) MAY BE USED AS AN ACCEPTABLE ALTERNATE MATERIAL FOR USE AS SYSTEM SAND.

PARCEL DATA

SOILS DATA: SOILS ARE 26B – WINDSOR LOAMY SAND – 3–8% SLOPE, AS DERIVED FROM THE USDA NATURAL RESOURCE CONSERVATION SERVICE WEB SOIL SURVEY

SUBDIVISION APPR. NO. – NA – LOT SIZE IS OVER 5 ACRES

PREVIOUS CONSTRUCTION APPR. NO. (IF ANY) CA2020121030 FOR BUILDING #1

OWNER OF RECORD: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DEED REFERENCE: BK 3565 PG 1503 MCRD

SYSTEM DESIGN CALCULATION:

4 MINUTES PER INCH PERC. RATE

OFFICE AND SHOP SPACE ESTIMATED AT 5 EMPLOYEES PER UNIT:

5 EMPLOYEES AT 10 GPD/EMPLOYEE x 6 UNITS = 300 GPD

MIN PIPE LENGTH REQUIRED = 47 LF PER 100 GPD = 141 LF

PROPOSED LENGTH IS 180 LF OF PIPE (18) 10 FOOT SECTIONS

TEXT REFERENCE:
MANUAL ENTITLED, "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", BY PRESBY ENVIRONMENTAL INC. PUBLISHED NOVEMBER 2019.

NOTES:

1. THIS IS NOT A PROPERTY LINE SURVEY. ALL PROPERTY LINES ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE INSTALLER SHALL NOT ALLOW ANY VEHICULAR TRAVEL TO OCCUR ACROSS THE PROPOSED LEACH FIELD AREA AT ANY TIME EXCEPT DURING THE CONSTRUCTION OF THE LEACH FIELD.
3. THERE ARE NO OPEN WATER OR HYDRIC "A" SOILS WITHIN 75' OF THIS PROPOSED SYSTEM OR ITS COMPONENTS, AND THERE ARE NO HYDRIC "B" SOILS WITHIN 50' OF THIS PROPOSED SYSTEM OR ITS' COMPONENTS.
4. FIELD IS TO BE REBUILT IN PLACE IF REPLACEMENT BECOMES NECESSARY.
5. ALL PIPE CONNECTIONS TO THE SEPTIC TANK, D–BOX, TO BE SEALED WITH A NON–SHRINK MORTAR OR OTHER APPROVED SEALANT. ROOF TAR IS NOT SUITABLE.
6. THIS DESIGN DOES NOT PROVDE FOR THE USE OF A GARBAGE GRINDER OR HIGH WATER USE FIXTURES. IF A GARBAGE GRINDER IS TO BE USED, THE SEPTIC TANK WILL NEED TO BE INCREASED IN SIZE BY 50%.
7. ALL INVERT ELEVATIONS AND GRADES ARE REFERENCED FROM T.B.M. DEPICTED HEREON.
8. CAUTION TO BE EXERCISED DURING FILL PLACEMENT/SITE PREPARATION TO AVOID COMPACTION OR SMEARING OF THE INFILTRATIVE SURFACE.
9. MAINTAIN 8–12 INCHES OF FILL BETWEEN EQUIPMENT TRACKS AND PREPARED SURFACE.
10. FILL MATERIAL SHALL BE A MEDIUM TO COARSE TEXTURED SAND, AS DEFINED BY THE USDA, SCS CLASSIFICATION, WITH AN EFFECTIVE SIZE OF 0.25 TO 2.0 mm.
11. THE PROPERTY WILL BE RETAINED UNDER SINGLE OWNERSHIP. UNITS TO BE LEASED.

SEE APPROVAL #CA2020121030 FOR BUILDING #1

No.	DESCRIPTION	DATE
1.	REVISIONS PER NHDES RFI	11/07/2023
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PROPOSED SANITARY SYSTEM DESIGN PLAN

MAP 106 LOT 18–1

GRANITE STREET INDUSTRIAL PARK – BUILDING #2
179 GRANITE STREET,
ALLENSTOWN, NEW HAMPSHIRE

PREPARED FOR: ALLENSTOWN AGGREGATE, LLC
603 OLD MAMMOTH ROAD
LONDONDERRY, NH 03053

DATE: SEPTEMBER 1, 2023

SYSTEM DESIGNER

SCALE: 1"=20'

20 10 0 20
Graphic Scale

PREPARED BY:
RJB ENGINEERING LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PHONE 603-219-0194

NEW HAMPSHIRE Designer of Subsurface Disposal Systems
R. JEFFREY BURD No. 1009
Water Supply & Pollution Control