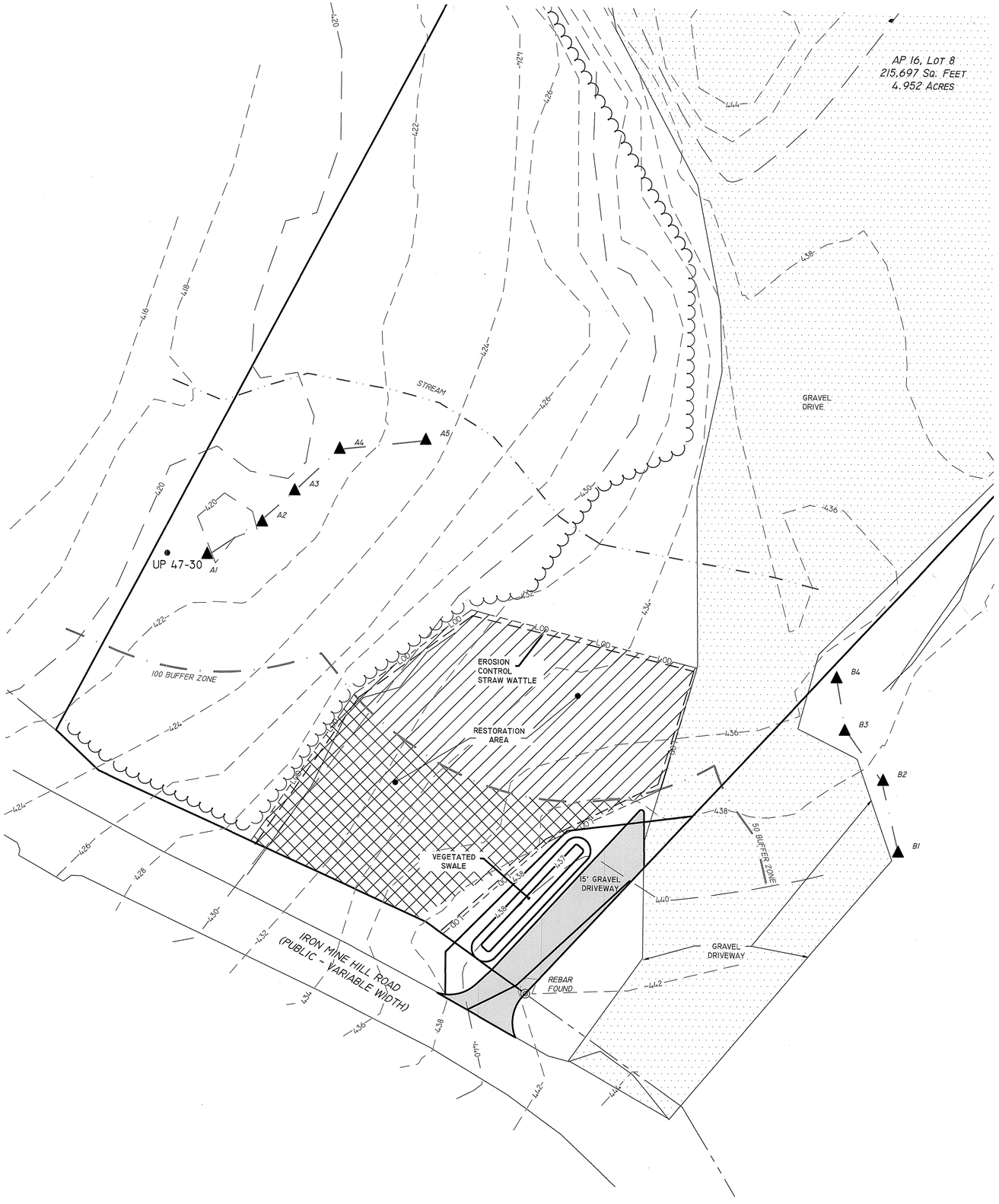

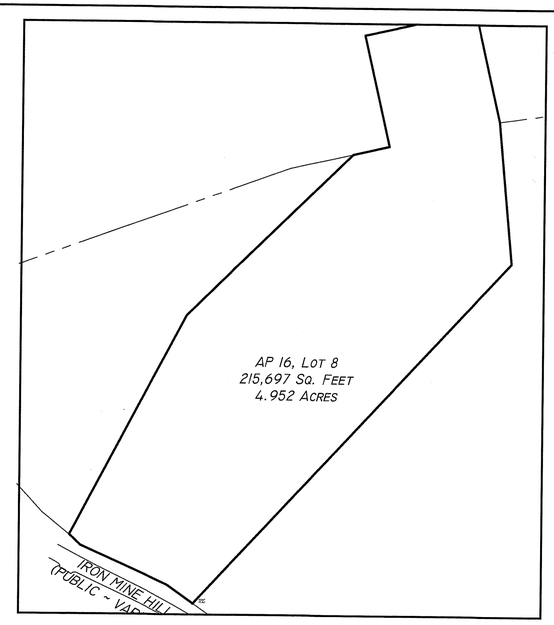

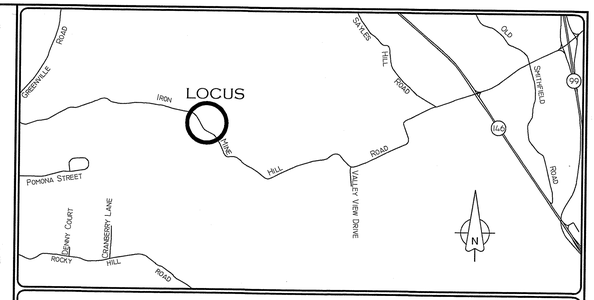

LOCATION MAP (NOT TO SCALE)

GENERAL NOTES:

1. LOT SHOWN IS DESIGNATED AS LOT 8 ON ASSESSORS MAP 16.
2. OWNER OF RECORD: HT AUTO LLC
   955 IRON MINE HILL ROAD
   NORTH SMITHFIELD, RI
3. THE PROPERTY IS NOT WITHIN A FLOOD HAZARD AREA AS SHOWN ON FEMA MAP NUMBER 44007C0160G E DATED OF MARCH 2, 2009.
4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE. PROPERTY LINES SHOWN ON THIS SURVEY/PLAT REPRESENT CURRENT PHYSICAL FIELD CONDITIONS AND EVIDENCE OF APPARENT POSSIBLE POSSESSION, ANY REFERENCES TO PUBLIC RECORDS HEREON REFLECTS TO THOSE RECORDS NECESSARY TO ESTABLISH THE BOUNDARIES SHOWN HEREON AND REFERENCE TO THE SAME DOES NOT, AND IS NOT INTENDED TO CONSTITUTE A TITLE SEARCH OR TITLE OPINION.
5. WETLANDS FLAGGED BY NATURAL RESOURCE SERVICES, INC. ON APRIL 15, 2024
6. CONTOUR LINES AND ELEVATIONS BASED ON NAVD88.

ZONING DISTRICT: RA

MINIMUM AREA: 65,000 SQ. FT.
MINIMUM FRONTAGE: 200 FT.
MINIMUM SETBACKS: FRONT - 40 FT.
REAR - 40 FT.
SIDE - 25 FT.

RI Environmental Management
JUN 11 2024
Office of Water Resources

GRAPHIC SCALE
20 0 10 20 40 80
1 INCH = 40 FEET

SITE PLAN

PAUL D. CARLSON
No. 7142
REGISTERED PROFESSIONAL ENGINEER
CIVIL
PROFESSIONAL SEAL

"AP 16 LOT 8"
955 IRON MINE HILL ROAD,
NORTH SMITHFIELD, RHODE ISLAND

APPLICANT: HT AUTO, LLC
955 IRON MINE HILL ROAD, N SMITHFIELD, RI

JOB #	SCALE:	DRAWN BY:	DATE:
24-029	1" = 40'	GTE	6/6/2024

REVISED:

InSite Professional Complex, Suite 1
1539 Fall River Avenue, Seekonk, MA 02771
Phone: (508) 336-4500 Fax: (508) 336-4558
501 Great Road, Unit 104
North Smithfield, RI 02896
Phone: (401) 762-2870 Fax: (401) 762-2871
Web Address: InsiteEngineers.com
InSite Engineering Services, LLC
PROFESSIONAL ENGINEERS | LAND SURVEYORS
Precision. Clarity. Certainty.

SHEET 1 OF 2

S:\2024\24-029 HERNANDEZ - IRON MINE HILL ROAD, NORTH SMITHFIELD\DWG\24-029 WORKSHEET.DWG

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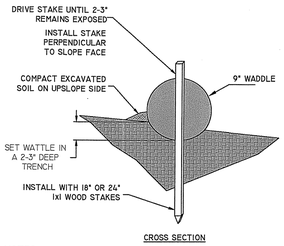

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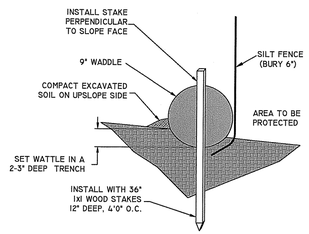
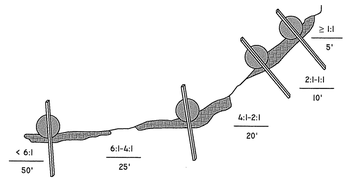


CROSS SECTION



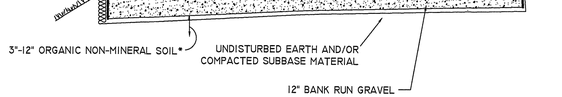
TYPICAL SPACING BASED ON SLOPE GRADIENT

GENERAL NOTES

1. BEGIN AT THE LOCATION WHERE WATTLE IS TO BE INSTALLED BY EXCAVATING 2–3" DEED x 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18–24" STAKES EVERY 3–4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE OF THE WATTLE LEAVING AT LEAST 2–3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
4. CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF STRAW WATTLE FOR DURATION OF CONSTRUCTION.
5. EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
6. LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.

Straw Wattle (or Silt Sock) Detail
Not to Scale

Replication Area Straw Wattle (or Silt Sock) With Silt Fence Detail
Not to Scale

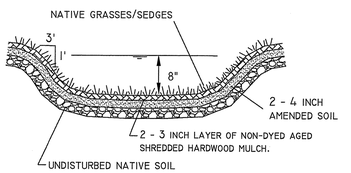


*ORGANIC NON-MINERAL SOIL TO BE REMOVED WITHIN DRIVEWAY LIMITS AND REPLACED WITH A COMPACTED SUBBASE MATERIAL.

Driveway Detail
Not to Scale

DRIVEWAY AREA: 1,120 SF
SWALE: 620 SF (395 CF)
10' WIDE x 62' LONG

Cross-Section



Maintenance:
1. The vegetated swale shall be inspected annually and after large storm events.
2. Eroded side slopes and channel bottom shall be stabilized as necessary.
3. If the surface of the dry swale becomes clogged to the point that standing water is observed on the surface 48 hours after precipitation events, the bottom shall be roto-tilled or cultivated to break up any hard-packed sediment, and then reseeded.
4. Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-6 inch range.
5. Every five years, the channel bottom of dry swales should be scraped to remove sediment and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.

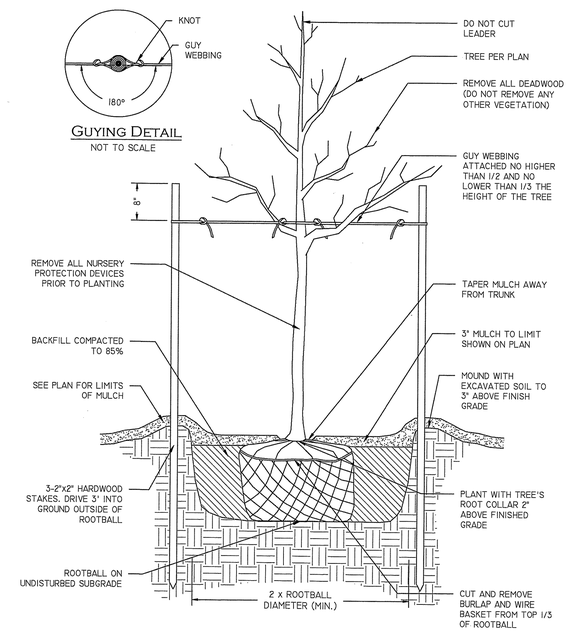
Vegetative Swale
NOT TO SCALE

Construction Procedures & Sequencing

- THE ENGINEER SHALL HAVE THE SOLE RESPONSIBILITY FOR THE DESIGN IMPLEMENTATION. HE SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONTRACTORS AND SUBCONTRACTORS ARE AWARE OF THE PROVISIONS ON THE PLANS.THE CONTRACTOR SHALL ORGANIZE SITE CONSTRUCTION IN A MANNER WHICH WILL ENSURE THE IMMEDIATE STABILIZATION OF SURFACES. PERIMETER CONTROLS EQUAL APPROVED PROJECT LIMITS.
- PRIOR TO ANY CONSTRUCTION ON SITE, THE CONTRACTOR SHALL SETUP PRE-CONSTRUCTION MEETING WITH OWNER, ENGINEER, TOWN PLANNING AND DPW PERSONAL.PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, A LINE STRAW WATTLES, WILL BE PLACED AT ALL CONSTRUCTION TOE OF SLOPES IN THE AREA OF ROADWAY, PONDS, LANDSCAPED AREAS, AND ALONG PERIMETER OF PROJECT LIMIT OF DISTURBANCE WHERE INDICATED ON PROJECT PLANS.
- RESERVE EROSION CONTROL DEVICES SHALL BE STOCKPILED ON SITE IN THE EVENT OF EMERGENCIES. AND SHALL BE LOCATED OUTSIDE OF REGULATED WETLAND RESOURCE AREAS, BUFFERS AND RIVERFRONT AREAS.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS FOR THE PROPER STORAGE AND/OR REMOVAL OF DEBRIS ON SITE TO AVOID UNNECESSARY ACCUMULATION ON SITE.
- DRAINAGE STRUCTURES SHALL BE CONSTRUCTED FROM DOWNSTREAM UP AND CONSTRUCTION.
- IN STREAM CONTROLS SUCH AS HAY BALE CHECK DAMS SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION IF NEEDED.
- IF CONSTRUCTION IS SUSPENDED (E.G., OVER THE WINTER), THEN MONTHLY INSPECTIONS ARE REQUIRED. IN ADDITION, THE SYSTEM SHOULD BE CHECKED AFTER ANY SIGNIFICANT RAINFALL, TO INSURE IT IS FUNCTIONING CORRECTLY AND TO MONITOR SEDIMENT ACCUMULATION FROM THE DISTURBED AREAS OF THE SITE.
- THE POTENTIAL FOR EROSION IS HIGH. DURING GRADING OPERATIONS, DISTURBED SLOPES WILL BE MULCHED AND VEGETATION ESTABLISHED TO PREVENT SEDIMENT EROSION TO THE SATISFACTION OF THE ENGINEER.

Erosion & Sediment Control Notes

1. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. GRAVEL CONSTRUCTION ENTRANCE WILL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF PROJECT AREA BEGINS. STABILIZATION OF ALL REGRADED AND SOIL STOCKPILE AREAS WILL BE INITIATED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
2. ADDITIONAL CONTROL MEASURES AND/OR ALTERNATE CONFIGURATIONS MAY BE REQUIRED TO ADDRESS EVOLVING SITE CONDITIONS. THESE ADDITIONAL CONTROLS WILL BE INSTALLED DURING CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE ENGINEER OR TOWN AGENCIES.
3. THE SITE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION AND UNTIL THE SITE IS FULLY STABILIZED AND/OR THE OWNER HAS ASSUMED RESPONSIBILITY BY WRITING.
4. SEEDING MIXTURE FOR FINISHED GRASSED AREAS WILL BE AS FOLLOWS:
   KENTUCKY BLUE GRASS = 45
   CREEPING RED FESCUE = 45
   PERENNIAL RYE GRASS = 10
   SEED TO APPLIED AT A RATE OF 8 LBS / 1000 S.F. FERTILIZER SHALL BE APPLIED AT A RATE OF 2 LBS / 1000 S.F. PLANTING SEASON SHALL BE APRIL 1 TO OCTOBER 15. AFTER OCTOBER 15 AREAS NOT SEEDED SHALL BE STABILIZED WITH STRAW WATTLES, HAY BALE CHECK DAMS, FILTER FABRIC OR WOODEN MULCH AS REQUIRED TO CONTROL EROSION.
5. AREAS LEFT BARE BEFORE FINISH GRADING AND SEEDING IS ACHIEVED, SHALL RECEIVE A TEMPORARY SEEDING OF PERENNIAL RYE GRASS APPLIED TO A RATE OF 2 LBS / 1000 S.F. AT A DEPTH OF 1/2". LIMESTONE (EQUIVALENT TO BE 50% CALCIUM PLUS MAGNESIUM OXIDE) SHALL BE APPLIED AS SEEDBED PREPARATION AT A RATE OF 80 LBS / 1000 S.F.. WHERE GRASS PREDOMINATES, FERTILIZE ACCORDING TO A SOIL TEST AT A MINIMUM APPLICATION RATE OF 1 LB OF NITROGEN PER 1000 S.F. AREAS TO BE LEFT BARE BEFORE FINISH GRADING AND SEEDING OUTSIDE OF PLANTING SEASONS SHALL RECEIVE AN AIR-DRIED WOOD CHIP MULCH, FREE OF COURSE MATTER, TREATED WITH 12 LBS NITROGEN PER TON, APPLIED AT A RATE OF 185-275 LBS / 1000 S.F.
6. CONTRACTOR SHALL BE ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFY THE PROPER TOWN AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLY FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
7. PERIODIC INSPECTIONS OF EROSION CONTROL MEASURES MAY BE PERFORMED BY THE TOWN AGENCIES, THE CONTRACTOR SHALL REPAIR, UPGRADE OR REPAIR ANY MEASURES THE AGENT MAY FEEL ARE IN NEED OF SUCH.
8. STOCKPILES OF SOIL SHALL BE SURROUNDED BY A SEDIMENT BARRIER. SOIL STOCKPILES TO BE LEFT BARE FOR MORE THAN FIFTEEN (15) DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH, IF STOCKPILES ARE TO REMAIN FOR MORE THAN SIXTY (60) DAYS, FILTER FABRIC SHALL BE USED IN PLACE OF HAY BALES. SIDE SLOPES SHALL NOT EXCEED 2:1.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF THIS CONTRACT. DUST CONTROL SHALL INCLUDE BUT NOT LIMITED TO SPRINKLING WATER ON EXPOSED SOILS AND HAUL ROADS. CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC ON ADJACENT ROADWAYS.
10. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES ¼ TO ½ THE HEIGHT OF THE SILT FENCE OR HAY BALE, OR SILT SOCK.
11. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED.
12. ALL FACILITIES USED AS TEMPORARY MEASURES SHALL BE CLEANED PRIOR TO BEING PUT INTO FINAL OPERATION.
13. INFILTRATION BASINS ARE NOT TO BE USED FOR TEMPORARY STORMWATER RUNOFF COLLECTION DURING THE PROJECTS CONSTRUCTION.



Guying Detail
NOT TO SCALE

NOTES:
1. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.

Deciduous Tree Staking & Planting
NOT TO SCALE

ME ME NH RI
EXCAVATORS
1-888-DIG-SAFE
1-888-344-7233
OWNER OR CONTRACTOR TO CONTACT DIGSAFE 72 HOURS PRIOR TO ANY EXCAVATION.

Site Detail Plan

"AP 16 LOT 8"
955 Iron Mine Hill Road,
North Smithfield, Rhode Island

Applicant: HT Auto, LLC
955 Iron Mine Hill Road, N Smithfield, RI

Job #	Scale:	Drawn By:	Date:
24-029	1" = 40'	GTE	6/6/2024

Revised:

PAUL D. CARLSON
No. 7142
REGISTERED PROFESSIONAL ENGINEER
CIVIL
Professional Seal

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Web Address: InsiteEngineers.com

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Sheet 2 of 2

S:\2023\23029 TRAGIELLA MILL CIR2 - THE JAY LANE, BLACKSTONE\DWG\23-029 TIE JAY LANE 03.DWG

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