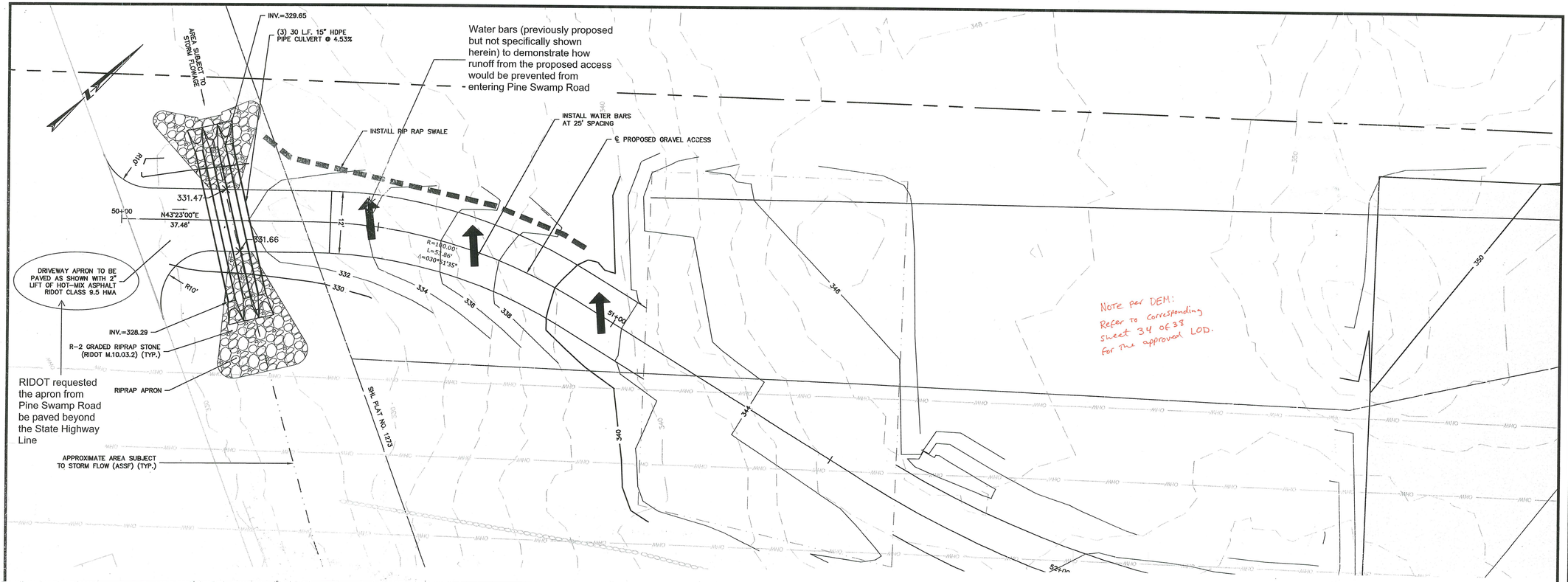

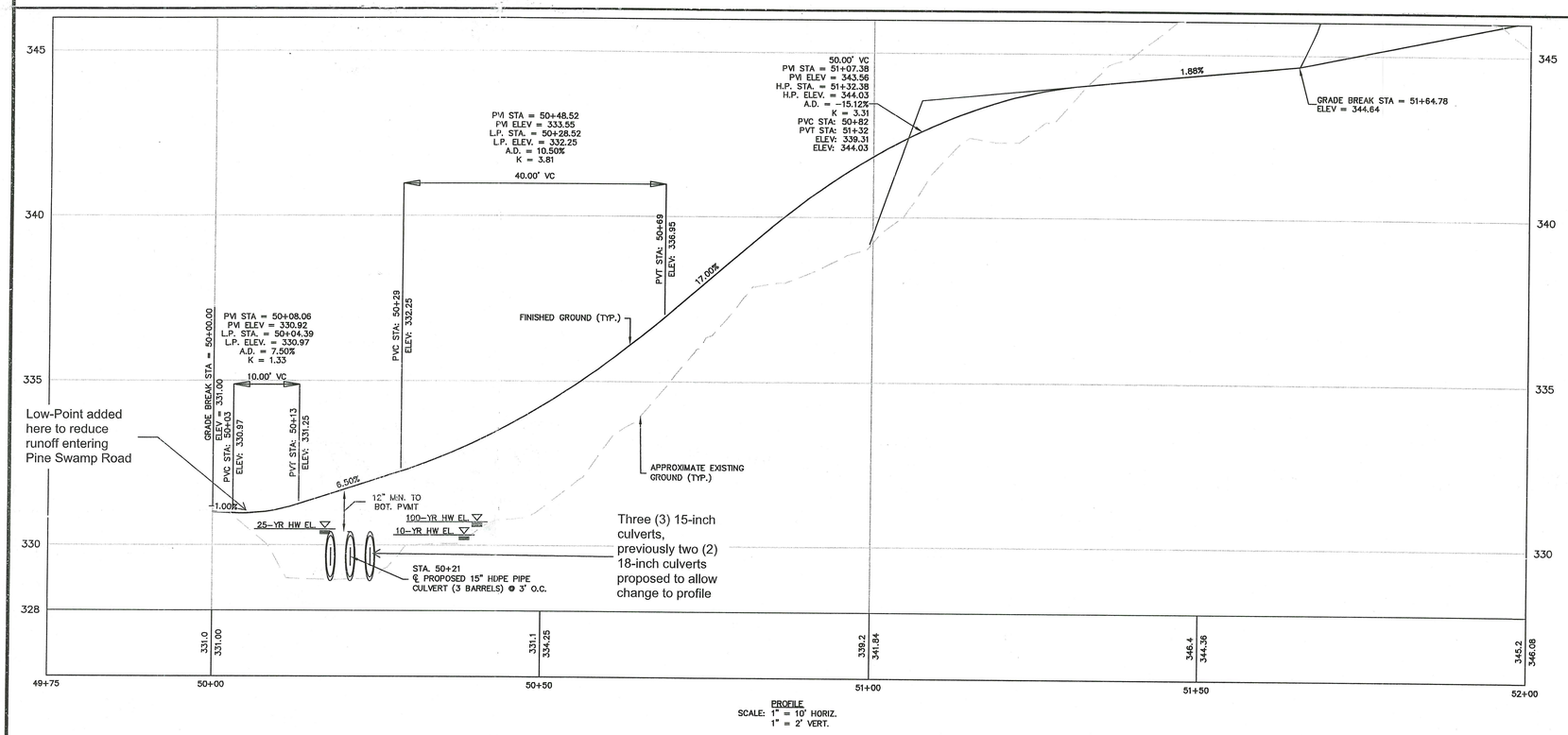

PROFILE
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUN 21 2024 FILE #: 23-0262
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

ISSUED FOR PERMITTING

LEGEND
- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING STONEWALL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 315 TRANSMISSION CONDUCTOR
- WETLANDS EDGE
- STREAM CENTERLINE
- 25' WETLAND BUFFER
- 75' WETLAND BUFFER
- DRAINAGE SWALE
- PROPOSED TRANSMISSION LINE STRUCTURE LOCATION
- EXISTING TRANSMISSION LINE STRUCTURE LOCATION
- MATTED WORK AREAS
- PROPOSED STRUCTURE WORK PAD
- PROPOSED GUARD STRUCTURE ENVELOPE

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER
5/22/24
DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND

RHODE ISLAND

CULVERT PLAN & PROFILE

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS
2	03/29/2024	PERMIT MODIFICATION REQUEST
3	05/22/2024	DOT COMMENTS

Environmental Management
JUN 12 2024
Office of Water Resources

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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SCALE: 1" = 10'
0 5 10 20 FEET

FILE: 8984045 – SHEET FILES.DWG
DWG. NO:
JOB. NO: 89840.45
PLAN-03

7 OF 38

RIDEM COPY

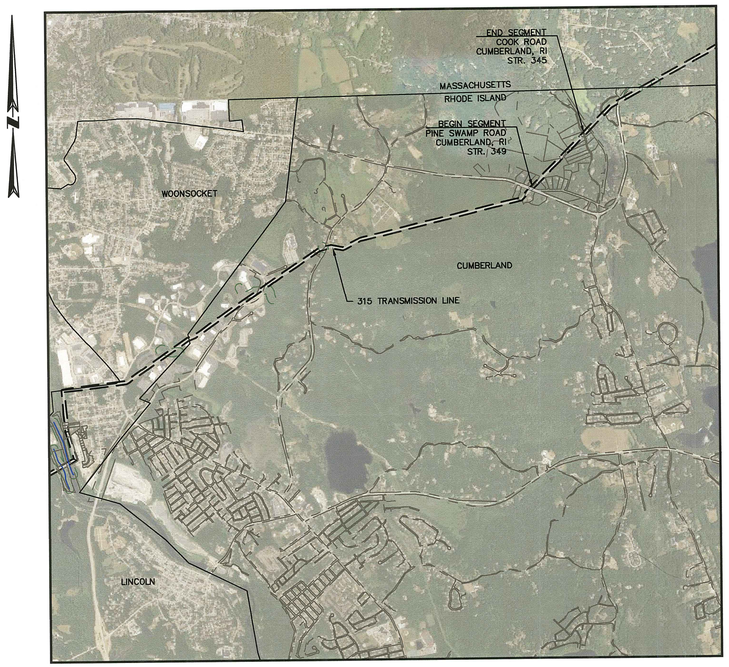
315 LINE PROJECT

PHASE 4B

CUMBERLAND, RHODE ISLAND

NOVEMBER 06, 2023

LATEST REVISION: MARCH 29, 2024



SITE MAP

1,250 0 2,500 5,000 7,500 FT

SCALE: 1" = 2,500'

1

INDEX OF DRAWINGS

COV-01	COVER SHEET
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 31 2024 FILE #: 23-~~0212~~
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

PREPARED BY:

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

ISSUED FOR PERMITTING

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
3/29/24

RI Environmental Management
APR 22 2024
Office of Water Resources

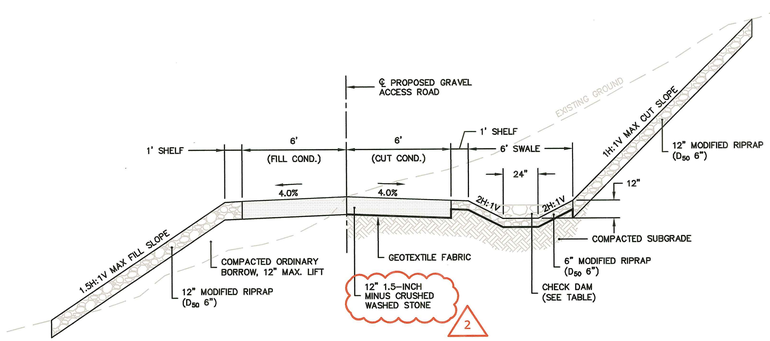
JOB NO: 89840.45 DWG NO: SHEET COV-01

LEGEND

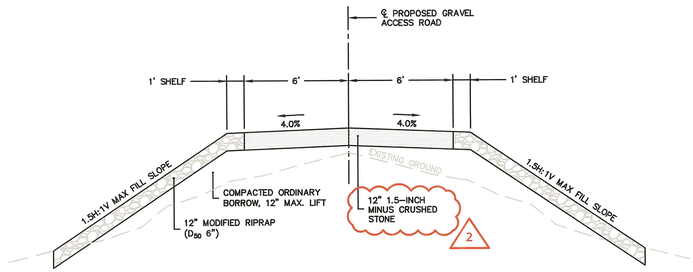
- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING STONEWALL
- EXISTING TOPOGRAPHY: MINOR INTERVAL
- EXISTING TOPOGRAPHY: MAJOR INTERVAL
- PROPOSED TOPOGRAPHY: MINOR INTERVAL
- PROPOSED TOPOGRAPHY: MAJOR INTERVAL
- EXISTING 315 TRANSMISSION CONDUCTOR
- WETLAND EDGE
- STREAM CENTERLINE
- PROPOSED TRANSMISSION LINE STRUCTURE LOCATION
- EXISTING TRANSMISSION LINE STRUCTURE LOCATION
- MATTED WORK AREAS
- PROPOSED STRUCTURE WORK PAD
- PROPOSED GUARD STRUCTURE ENVELOPE

ABBREVIATIONS

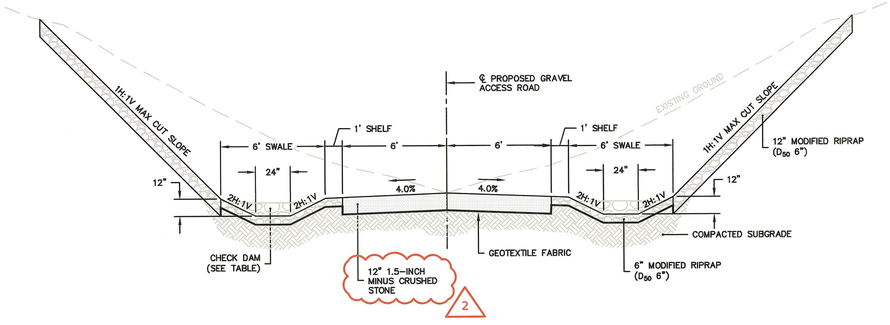
ROW – RIGHT-OF-WAY
STR. – STRUCTURE
EX. – EXISTING
℄ – CENTERLINE
EG – EXISTING GRADE
FG – FINISHED GRADE
HORIZ. – HORIZONTAL
VERT. – VERTICAL
PC – POINT OF INTERSECTION
PC – POINT OF CURVATURE
PT – POINT OF TANGENCY
PVI – POINT OF VERTICAL INTERSECTION
PVC – POINT OF VERTICAL CURVATURE
PVT – POINT OF VERTICAL TANGENCY



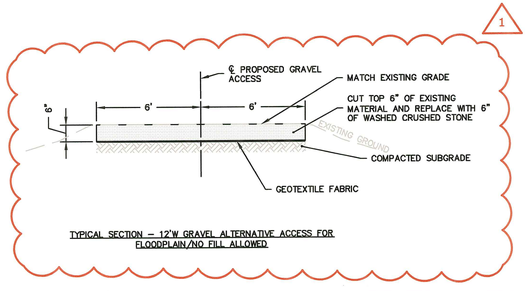
12'W GRAVEL ACCESS IN CUT/FILL CONDITION



12'W GRAVEL ACCESS IN FILL CONDITION



12'W GRAVEL ACCESS IN CUT CONDITION



TYPICAL SECTION – 12'W GRAVEL ALTERNATIVE ACCESS FOR FLOODPLAIN/NO FILL ALLOWED

NOTES:

1. EXISTING CONDITIONS SHOWN HAVE BEEN PREPARED FROM AVAILABLE GIS DATA AND FROM EXISTING TOPOGRAPHY PROVIDED BY THE OWNER, PREPARED BY NM GROUP, USING LIDAR SURVEY. BSC HAS NOT FIELD VERIFIED THE EXISTING CONDITIONS INFORMATION PROVIDED AND SHOWN AND PROVIDES NO WARRANTY TO ITS ACCURACY. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES DISCOVERED.
2. CONTRACTOR TO PROTECT BOUNDARY MONUMENTS. IF NOT FEASIBLE OR A CONFLICT WITH DESIGN, CONTRACTOR TO NOTIFY RI ENERGY PRIOR TO DISTURBING PROPERTY MONUMENT..
3. CONTRACTOR'S RESPONSIBILITY TO ENSURE STRUCTURAL INTEGRITY OF EXISTING STRUCTURE THROUGHOUT CONSTRUCTION OF SURROUNDING WORK PADS.
4. APPROXIMATE LIMITS OF RIGHT-OF-WAY WERE PROVIDED BY RHODE ISLAND ENERGY PROJECT TEAM.
5. WORK AREAS SHOWN TO BE CONSTRUCTED USING A COMBINATION OF TEMPORARY CONSTRUCTION MATTING AND GRADING ARE CONSIDERED HYBRID PADS. CONTRACTOR SHALL DETERMINE THE APPROPRIATE EXTENT OF CONSTRUCTION MATTING TO ADEQUATELY PROTECT WETLAND RESOURCE AREAS. HYBRID WORK PADS SHALL REQUIRE RESTORATION OF GRADED AREAS ADJACENT TO WETLAND RESOURCE AREAS TO ENSURE PROTECTION OF RESOURCE AREAS FOLLOWING CONSTRUCTION.
6. PROPOSED GRADING ASSUMES 1:1 (H:V) CUT SLOPE AND 1.5:1 (H:V) FILL SLOPE UNLESS NOTED OTHERWISE. SEVERAL DESIGNED AREAS HEREIN HAVE BEEN DESIGNED WITH 1:1 FILL SLOPES TO REDUCE EXTENT OF DISTURBANCE/WORK.WHERE BEDROCK IS ENCOUNTERED, A VERTICAL ROCK FACE MAY BE LEFT IN LIEU OF CREATING A 1:1 (H:V) CUT SLOPE. CONTRACTOR SHALL ENSURE THAT THE ROCK IS COMPETENT AND TAKE NECESSARY MEASURES TO CREATE A SAFE WORK ZONE INCLUDING, BUT NOT LIMITED TO, REMOVAL OF DEBRIS AND LOOSE ROCK FORM THE SIDES OR TOP OF THE VERTICAL ROCK FACE OR FENCING TO PROHIBIT ENTRY INTO UNSAFE AREAS ADJACENT TO THE ROCK FACE
7. THE EXTENTS OF TEMPORARY CONSTRUCTION MATTING SHOWN ON THE PLANS ARE THE MINIMUM REQUIRED FOR PROTECTION OF RESOURCE AREAS AND/OR PRIVATE PROPERTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST MATTING AS NECESSARY TO MEET FIELD CONDITIONS. NOTIFY RI ENERGY OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLANS PRIOR TO INITIATION OF THE WORK.
8. RESOURCE AREAS ARE SHOWN FOR PLAN PURPOSES ONLY. NOT INTENDED FOR PERMITTING.
9. THE EXTENTS OF TEMPORARY CONSTRUCTION MATTING SHOWN MEETING EDGE OF PAVEMENT SHALL BE OFFSET AT A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT.
10. UNLESS OTHERWISE DIRECTED BY RI ENERGY, "STRUCTURE REMOVAL ONLY" WORK PADS AND PULL PADS ARE CONSIDERED TEMPORARY. IN UPLAND AREAS, THE CONTRACTOR SHALL REMOVE CONSTRUCTION MATTING AND/OR GRAVEL AND RESTORE THE AREA WITH 6 INCHES OF LOAM AND SEED. WHERE ACCESS IS DESIGNED THROUGH A TEMPORARY WORK PAD OR PULL PAD, THE ACCESS IS TO REMAIN. WHERE TEMPORARY WORK PADS AND PULL PADS ARE SHOWN AS GRAVEL, THE CONTRACTOR MAY ELECT TO USE CONSTRUCTION MATTING INSTEAD, EXCEPT PORTION TO REMAIN AS A PERMANENT ACCESS.
11. AFTER REMOVAL OF TEMPORARY MATTING, CONTRACTOR SHALL CONSULT ENGINEER FOR FINAL RESTORATION AND STORMWATER BMPS TO PROTECT NEARBY RESOURCE AREAS.
12. WORK PADS SHALL BE GRADED TO PREVENT CONCENTRATED STORMWATER FLOWS AT STEEP FILL SLOPES. SWALES AND PLUNGE POOLS SHALL BE CONSTRUCTED AS NEEDED TO CONTROL STORMWATER FLOWS FROM WORK PAD AREAS.
13. CONTRACTOR SHALL CONSTRUCT ADDITIONAL STORMWATER BMPS (E.G., SWALES, WATER BARS, CHECK DAMS, PLUNGE POOLS) THROUGHOUT ACCESS CONSTRUCTION AS NECESSARY TO CONTROL STORMWATER FLOWS AND PREVENT EROSION AND WASHOUTS. ENGINEER SHALL REVIEW WORK PERIODICALLY.

2

ROADWAY SLOPE	CHECK DAM SPACING (FT)	WATER BAR SPACING (FT)
< 2.0%	100	250
2.0% – 5.0%	40	130
5.0% – 10.0%	20	80
10.0% – 15.0%	13	50
> 15.0%	10	40

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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No. 12552
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
3/29/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND, RHODE ISLAND

TYPICAL SECTIONS, NOTES, & LEGEND

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS
2	03/29/2024	PERMIT MODIFICATION REQUEST

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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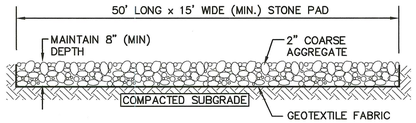
SCALE: 1" = 4'

0 2 4 8 FEET

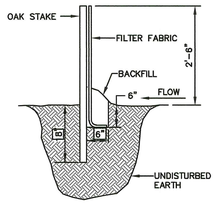
RI Department of Environmental Management
APR 22 2024
Office of Water Resources

FILE: 8984045 – TYP.DWG
DWG. NO:
JOB. NO: 89840.45

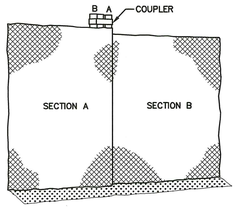
TYP-01



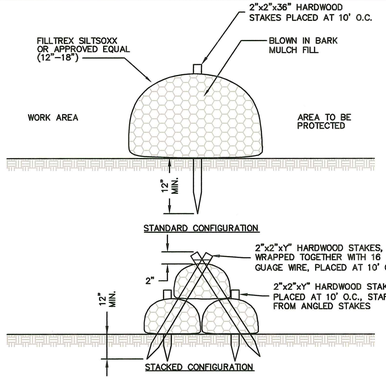
TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NONE





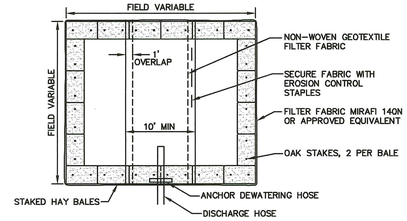


SILT FENCE
SCALE: NONE

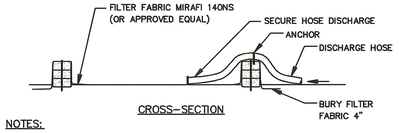


NOTES:
1. PRODUCT TO BE FILTREXX SILT SOXX OR ACCEPTED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. MESH CONTAINMENT MATERIAL SHALL BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" AND 3/8". IN VERMONT, SILTSOXX SHALL BE BIODEGRADABLE.
5. COMPOST MEDIA SHALL HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

SILTSOXX
SCALE: NONE



PLAN VIEW



CROSS-SECTION

NOTES:

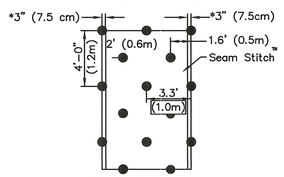
1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.

2. THE BASIN TO BE SIZED ACCORDING TO: CUBIC FEET OF STORAGE = PUMP DISCHARGE RATE(gpm) x 16

3. SIZE SHOWN ON PLANS SHALL BE ADJUSTED AS REQUIRED FOR THE ACTUAL PUMPING RATE.

DEWATERING HAYBALE BASIN (TYPE 1)
SCALE: NONE

STAPLE PATTERN GUIDE



1.7 STAPLES PER SQ. YD.
(2.0 STAPLES PER SQ. M)

BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN® DOT SYSTEM PLACE STAPLES/STAKES THROUGH EACH OF THE GREEN COLORED DOTS.

NOTES:

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

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

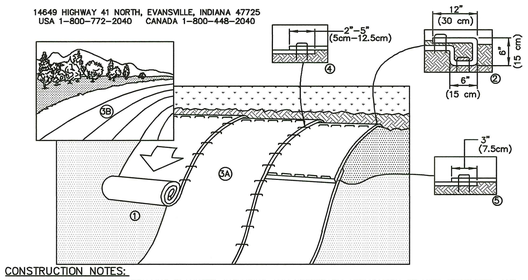
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENTHS IN EXCESS OF 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

*LOCATION OF SEAM STITCH WILL VARY DEPENDING ON NORTH AMERICAN GREEN PRODUCT TYPE: -APPROX. 5" SEAM OVERLAP FOR BIONET EROSION CONTROL BLANKETS

SLOPE STABILIZATION INSTALLATION
SCALE: NONE

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725
USA 1-800-772-2040 CANADA 1-800-448-2040



CONSTRUCTION NOTES:

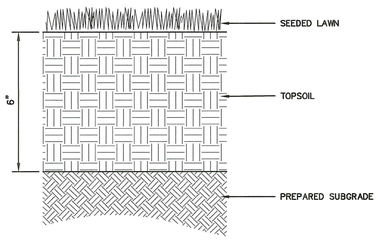
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. HYDROSEED SIDE SLOPES BEFORE INSTALLATION OF BLANKETS.

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 CLOSED 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.



NOTES:
1. CONTRACTOR SHALL PREPARE SOILS IN ALL DISTURBED AREAS AND AREAS USED FOR EQUIPMENT ACCESS.
2. SEED MIX PER SECTION 10, NATIONAL GRID ENVIRONMENTAL GUIDANCE DOCUMENT. SEE SHEET DET-02.

LOAM AND SEED
SCALE: NONE

TEMPORARY STOCKPILES:

1. ALL TEMPORARY MATERIAL STOCKPILE LOCATIONS SHALL BE LOCATED ON A GRAVEL WORK PAD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO STOCKPILES SHALL BE LOCATED WITHIN 50-FEET OF A WETLAND OR WATERCOURSE.

2. THE DOWN-GRADIENT SIDE OF ALL STOCKPILES SHALL BE PROTECTED WITH A LAYER OF SILTSOXX OR OTHER APPROVED SEDIMENT CONTROL BARRIER.

3. FOLLOWING 30 DAYS OF INACTIVITY, ALL STOCKPILES SHALL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE CRITERIA BELOW, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SPRING, SUMMER, OR EARLY FALL: SEED AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 20 LB/AC (0.5 LB/1,000 SF).

LATE FALL OR EARLY WINTER: SEED CERTIFIED 'AROOSTOOK' WINTER RYE (CEREAL RYE) AT 90 LB/AC (2.0 LB/1,000 SF).

UPLAND ROW RESTORATION MIX - GENERAL

Species Composition Options:
- Andropogon gerardii; Niagra Big Bluestem
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Elymus virginicus; Virginia Wildrye
- Lolium multiflorum; Annual Ryegrass
- Sorghastrum nutans; Indiangrass
- Chamaecrista fasciculata; Partridge Pea
- Desmodium canadense; Showy Tick Trefoil
- Helioposis helianthoides; Ox-Eye Sunflower
- Panicum virgatum; Switchgrass
- Rudbeckia hirta; Black Eyed Susan
- Poa palustris; Fowl Bluegrass
- Agrostis perennans; Upland Bentgrass
- Agrostis alba; Redtop
- Festuca rubra; Red Fescue
- Lotus corniculatus; Birds-Foot Trefoil
- Chrysanthemum leucanthem; Ox-Eye Daisy
- Aster novae-angliae; New England Aster

Example Seed Mixes:
1. Native Upland wildlife forage and Cover Meadow Mix - Ernst Conservation Seeds (ERNMX-123)
2. Eastern Ecotype Native Grass Mix- Ernst Conservation Seeds (ERNMX-177)
3. New England Native Warm Season Grass Mix - New England Wetland Plants, Inc.
4. New England Logging Road Mix - New England Wetland Plants, Inc.
5. Northeast Upland Wildflower/Restoration Erosion Mix - Southern Tier Consulting (STCMX-2)

UPLAND ROW RESTORATION MIX - DRY/ROCKY SITES

Species Composition Options:
- Festuca rubra; Red Fescue
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Bouteloua gracilis; Blue Grama
- Lolium multiflorum; Annual Ryegrass
- Lolium perenne; Perennial Ryegrass
- Agrostics scabra; Rough Bentgrass
- Agrostis perennans; Upland Bentgrass
- Sorghastrum nutans; Indiangrass

Example Seed Mixes:
1. New England Erosion Control/ Restoration Mix for Dry Sites - New England Wetland Plants, Inc.
2. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

WETLAND ROW RESTORATION MIX

Species Composition Options:
- Agrostis stolonifera; Creeping Bentgrass
- Poa trivialis; Rough Bluegrass
- Alopecurus arundinaceus; Creeping Meadow Foxtail
- Lolium multiflorum; Annual Ryegrass
- Festuca rubra; Creeping Red Fescue
- Elymus virginicus; Virginia Wildrye
- Schizachyrium scoparium; Little Bluestem
- Andropogon gerardii; Niagra Big Bluestem
- Carex vulpinoidea; Fox sedge
- Panicum virgatum; Switchgrass
- Agrostis scabra; Rough Bentgrass
- Aster novae-angliae; New England Aster
- Eupatorium perfoliatum; Boneset
- Euthamia graminifolia; Grass Leaved Goldenrod
- Scirpus atrovirens; Green Bulrush
- Verbena hastata; Blue Vervain
- Juncus effusus; Soft Rush
- Scirpus cyperinus; Wool Grass
- Panicum clandestinum; Deertongue

Example Seed Mixes
1. New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites - New England Wetland Plants, Inc.
2. Northeast Wetland Grass Seed Mix - Southern Tier Consulting (STCMX-7)
3. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

GERNERAL NOTES:

1. Seed mixes described herein are intended to cover a variety of typical new england landscapes. However, site specific seed mixes will need to be evaluated in coastal or mountainous regions.
2. Seed mixes described herein are intended for general ROW restoration. Site specific wetland seed mixes may be required by local, state and/or federal regulators for certain impacts to wetlands.
3. All seed mixes are to be approved by National Grid Environmental Scientist prior to construction and must conform with all project permits.
4. Seedbed preparation and maintenance as well as temporary erosion and sediment controls are crucial to the establishment of newly seeded areas. Coordinate with National Grid Environmental Scientist on seed bed preparation and maintenance as well as temporary erosion and sediment controls prior to construction.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 31 2024 FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

NOTE:
ADDITIONAL BMP MEASURES MAY BE INSTALLED AS REQUIRED IN ACCORDANCE WITH THE LATEST VERSION OF SPECIFICATION EG-303NE.

ISSUED FOR PERMITTING

1

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
3/29/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND, RHODE ISLAND

DETAILS

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS
2	03/29/2024	PERMIT MODIFICATION REQUEST

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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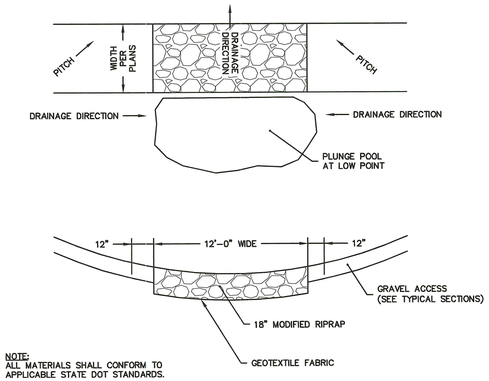
SCALE: AS SHOWN

RI Department of Environmental Management
APR 2 2 2024
Office of Water Resources

FILE: 8984045 - TYP.DWG

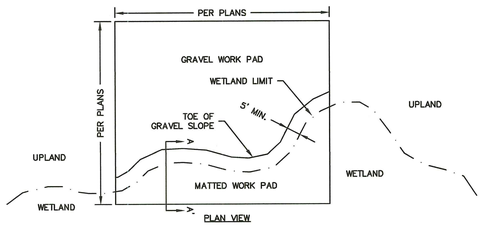
DWG. NO: DET-01

JOB. NO: 89840.45



NOTE:
ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

STONE FILTER
SCALE: NONE



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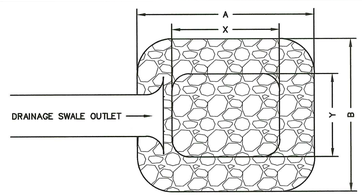
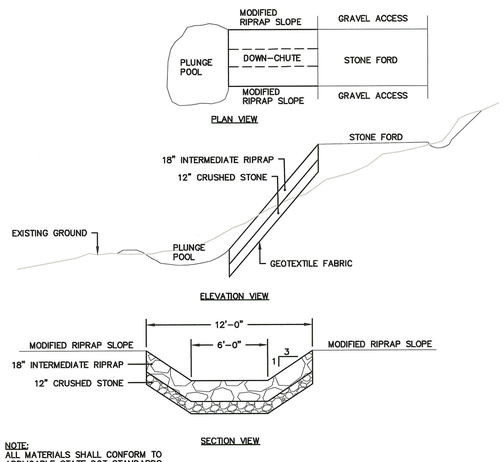
SCALE: NONE



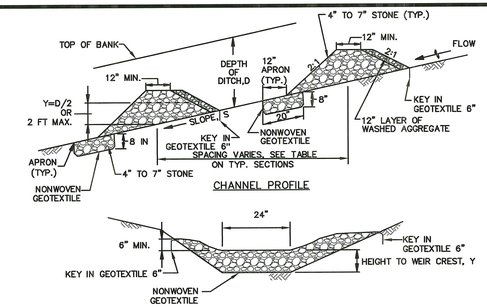
NOTES:
1. ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.
2. DIMENSIONS OF PLUNGE POOL TO BE DETERMINED BASED ON ANTICIPATED FLOW, DRAINAGE AREA, AND SITE CONDITIONS.
   2.1. DIMENSIONS A AND B SHALL NOT BE LESS THAN 6'-0"
   2.2. DIMENSION X SHALL NOT BE LESS THAN 2'-0"
   2.3. DIMENSION Y SHALL NOT BE LESS THAN 1'-6"
   2.4. DEPTH D SHALL NOT BE LESS THAN 1'-0".

PLUNGE POOL
SCALE: NONE



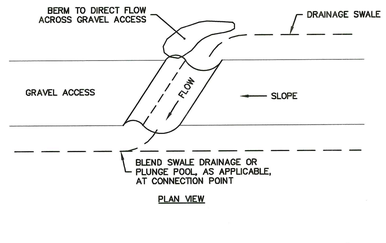
NOTE:
ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

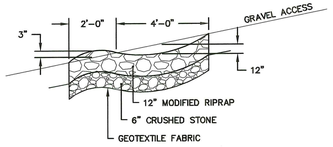
RIPRAP DOWN-CHUTE
SCALE: NONE



NOTES:
1. PREPARE SWALES IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS OR AS SPECIFIED ON PLAN.
2. PLACE NONWOVEN GEOTEXTILE UNDER THE BOTTOM AND SIDES OF THE DAM PRIOR TO PLACEMENT OF STONE. CONSTRUCT THE CHECK DAM WITH WASHED 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) WITH SIDE SLOPES OF 2:1 OR FLATTER AND A MINIMUM TOP WIDTH OF 12 INCHES. PLACE THE STONE SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL AND CHANNEL BANKS. FORM THE WEIR SO THAT TOP OF THE OUTLET CREST IS APPROXIMATELY 6 INCHES LOWER THAN THE OUTER EDGES. LINE THE UPSTREAM FACE OF THE DAM WITH A 1 FOOT THICK LAYER OF WASHED AGGREGATE (¾ TO 1½ INCH).
3. SET THE HEIGHT FOR THE WEIR CREST EQUAL TO ONE-HALF THE DEPTH OF THE CHANNEL OR DITCH. TO AVOID SCOUR THE MAXIMUM HEIGHT OF THE WEIR CREST MUST NOT EXCEED 2.0 FEET.
4. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF OF THE HEIGHT OF THE WEIR CREST. MAINTAIN LINE, GRADE, AND CROSS SECTION.

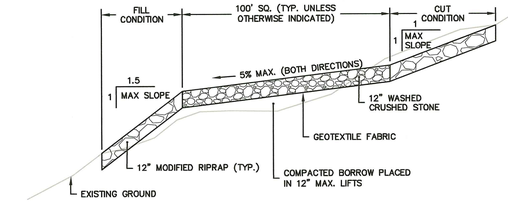
STONE CHECK DAM
SCALE: NONE





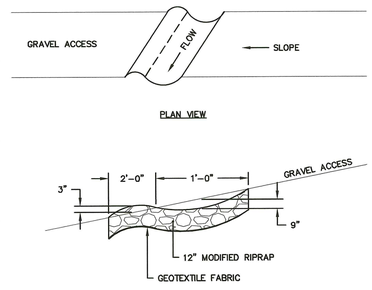
NOTE:
ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

DRAINAGE CROSSING
SCALE: NONE



NOTE:
1. WORK PADS SHALL NOT BE CONSTRUCTED ON TOPSOIL.
2. ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

GRAVEL WORK PAD
SCALE: NONE



NOTE:
1. PROPOSED WATER BARS SHALL NOT DIRECT RUNOFF INTO ANY WETLAND, WATERBODY, OTHER ENVIRONMENTALLY SENSITIVE AREAS, PRIVATE PROPERTY, OR PUBLIC ROADWAYS.
2. ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

WATER BAR
SCALE: NONE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Nancy L. Freeman

ISSUED FOR PERMITTING

1

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
3/29/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND, RHODE ISLAND

DETAILS

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS
2	03/29/2024	PERMIT MODIFICATION REQUEST

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617-896-4300

RI Environmental Management
APR 22 2024
Office of Water Resources

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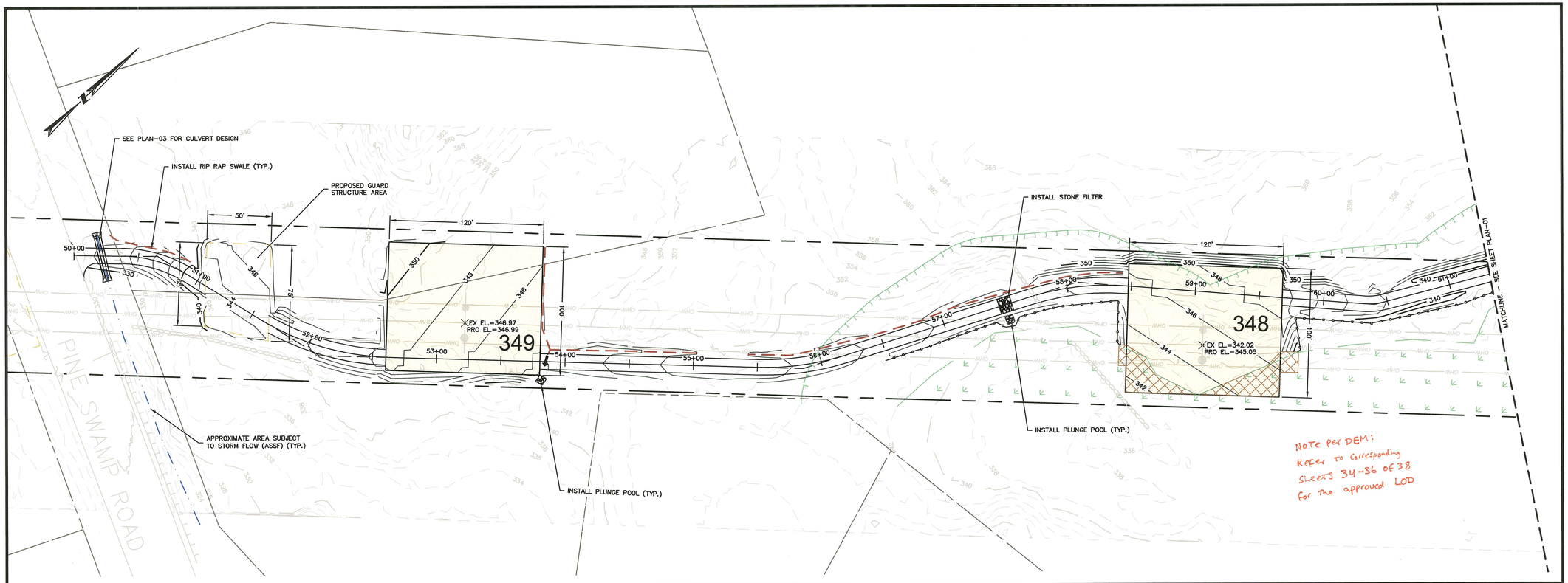
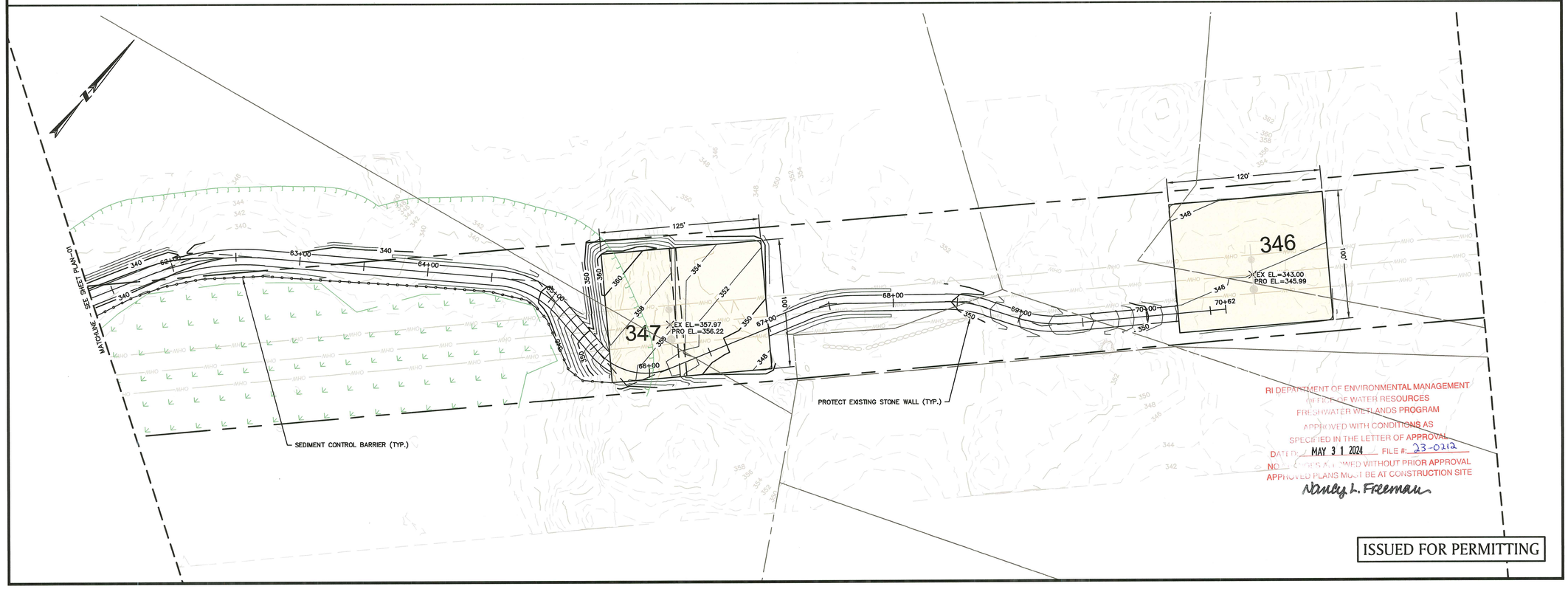
SCALE: AS SHOWN

FILE: 8984045 – TYP.DWG
DWG. NO: DET-02
JOB. NO: 89840.45





LEGEND

- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING STONEWALL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 315 TRANSMISSION CONDUCTOR
- WETLANDS EDGE
- STREAM CENTERLINE
- 25' WETLAND BUFFER
- 75' WETLAND BUFFER
- DRAINAGE SWALE
- PROPOSED TRANSMISSION LINE STRUCTURE LOCATION
- EXISTING TRANSMISSION LINE STRUCTURE LOCATION
- MATTED WORK AREAS
- PROPOSED STRUCTURE WORK PAD
- PROPOSED GUARD STRUCTURE ENVELOPE

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
3/27/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND

RHODE ISLAND

ACCESS PLAN STR. 349 - 346

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS
2	03/29/2024	PERMIT MODIFICATION REQUEST

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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SCALE: 1" = 40'

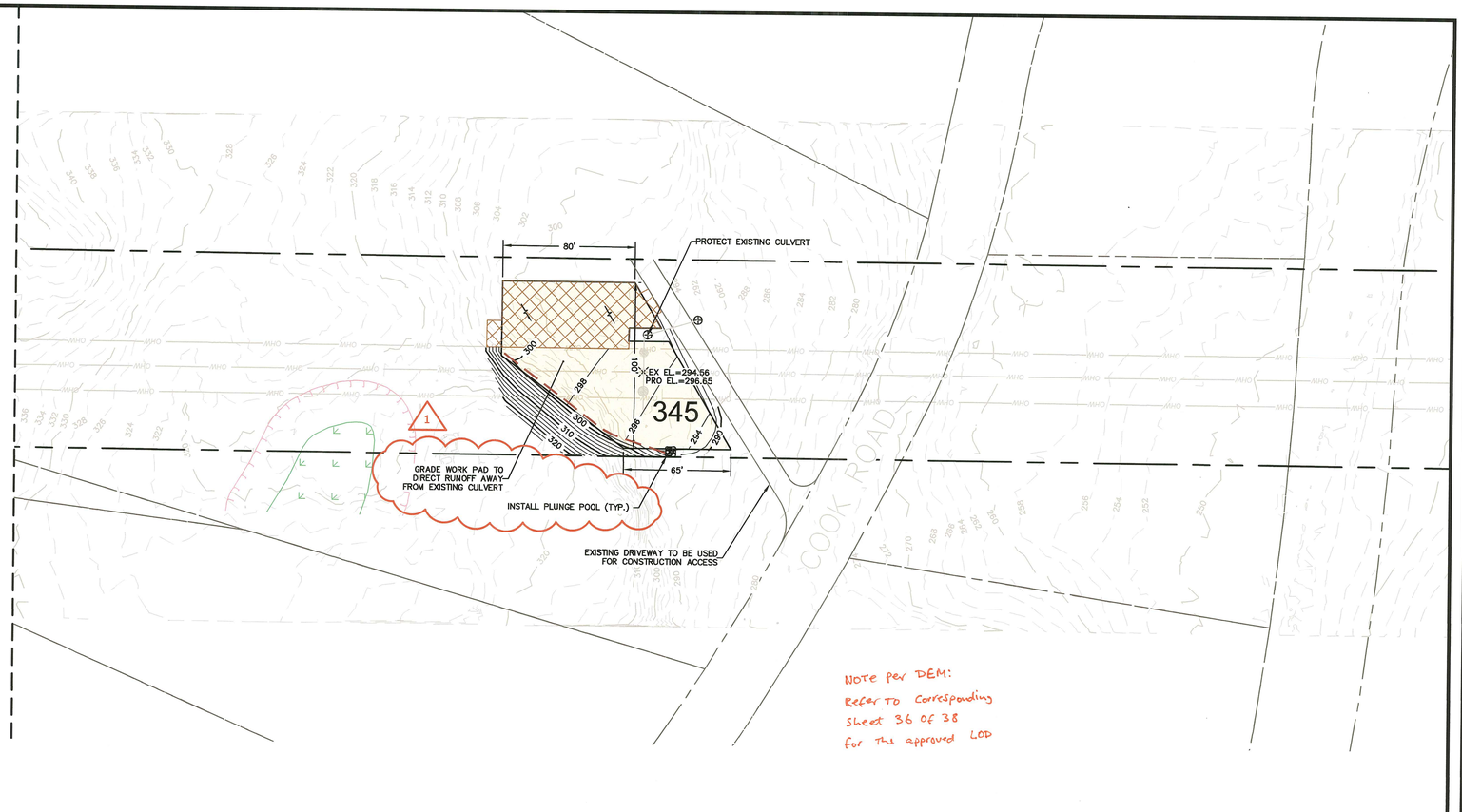
0 20 40 80 FEET

RI Environmental Management
APR 22 2024
Office of Water Resources

FILE: B9840 45 – SHEET FILES.DWG
DWG. NO:
JOB. NO: B9840.45

PLAN-01

5 of 38



NOTE per DEM:
Refer to corresponding sheet 36 of 38 for the approved LOD

LEGEND

- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING STONEWALL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
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- PROPOSED MAJOR CONTOUR
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- PROPOSED STRUCTURE WORK PAD
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DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
3/29/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND

RHODE ISLAND

ACCESS PLAN
STR. 345

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS
2	03/29/2024	PERMIT MODIFICATION REQUEST

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

RI Environmental Management
APR 22 2024
Office of Water Resources

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SCALE: 1" = 40'

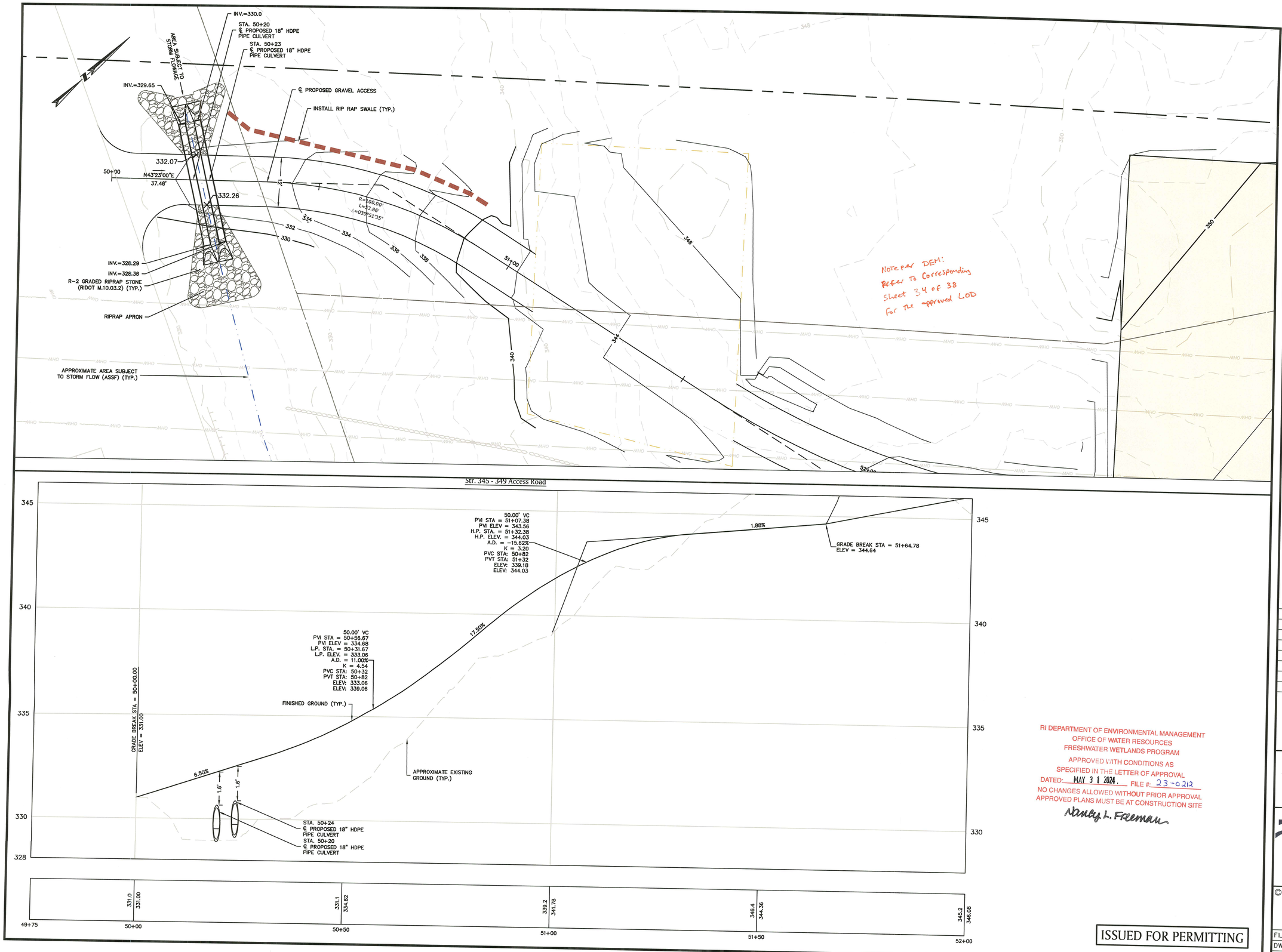
0 20 40 80 FEET

FILE: 8984045 – SHEET FILES.DWG
DWG. NO:
JOB. NO: 89840.45

PLAN-02

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 31 2024 FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

ISSUED FOR PERMITTING



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 31 2024. FILE #: 23-0212
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Nancy L. Freeman

ISSUED FOR PERMITTING

LEGEND
- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING STONEWALL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
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- PROPOSED MAJOR CONTOUR
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- MATTED WORK AREAS
- PROPOSED STRUCTURE WORK PAD
- PROPOSED GUARD STRUCTURE ENVELOPE

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
3/27/24
DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND

RHODE ISLAND

CULVERT DESIGN PLAN & PROFILE

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS
2	03/29/2024	PERMIT MODIFICATION REQUEST

PREPARED FOR:

THE NARRAGANSETT ELECTRIC COMPANY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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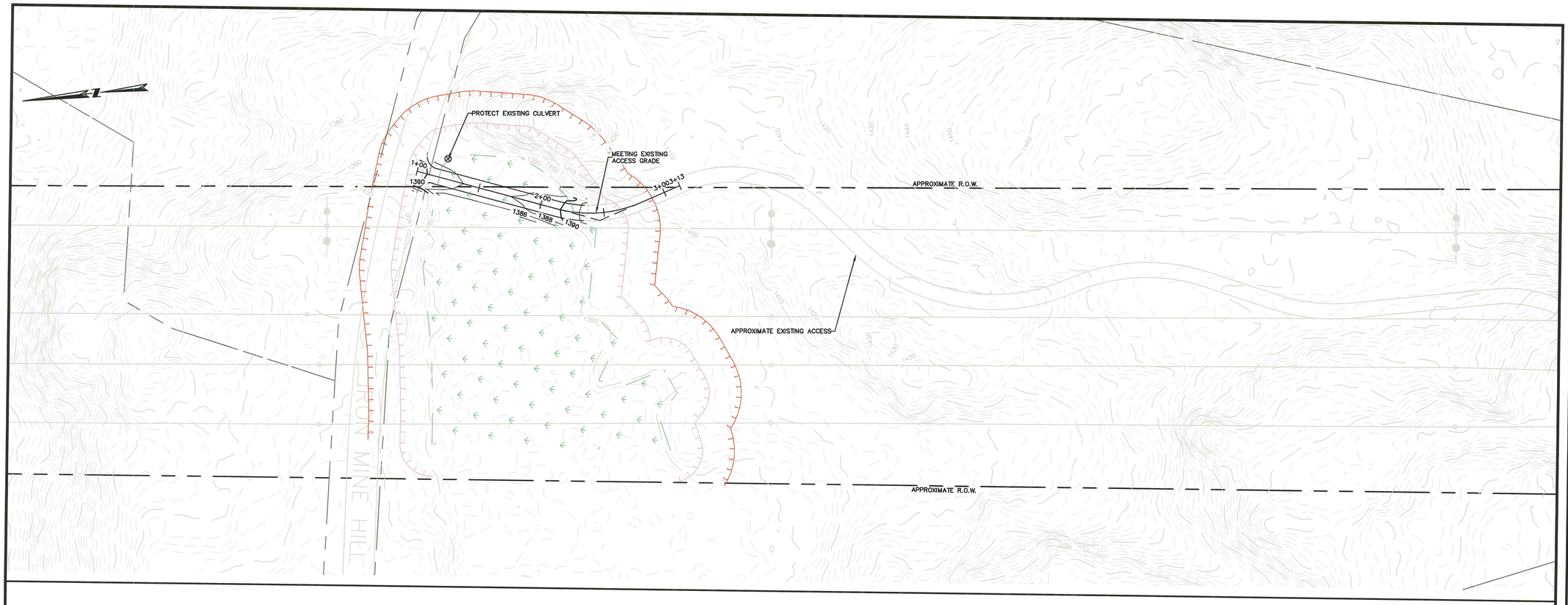
SCALE: 1" = 10'
0 5 10 20 FEET

FILE: B984045 - SHEET FILES.DWG
DWG. NO:
JOB. NO: 89840.45
PLAN-03

RI Environmental Management
APR 22 2024
Office of Water Resources



LEGEND

- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 315 TRANSMISSION CONDUCTOR
- WETLANDS EDGE
- 25' WETLAND BUFFER
- 50' WETLAND BUFFER
- EXISTING TRANSMISSION LINE STRUCTURE LOCATION

315 LINE PROJECT PHASE 4B

IN

NORTH SMITHFIELD

RHODE ISLAND

PERMANENT WETLAND CROSSING ACCESS PLAN

JUNE 23, 2023

REVISIONS:

PREPARED FOR:

RHODE ISLAND ENERGY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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SCALE: 1" = 40'

0 20 40 80 FEET

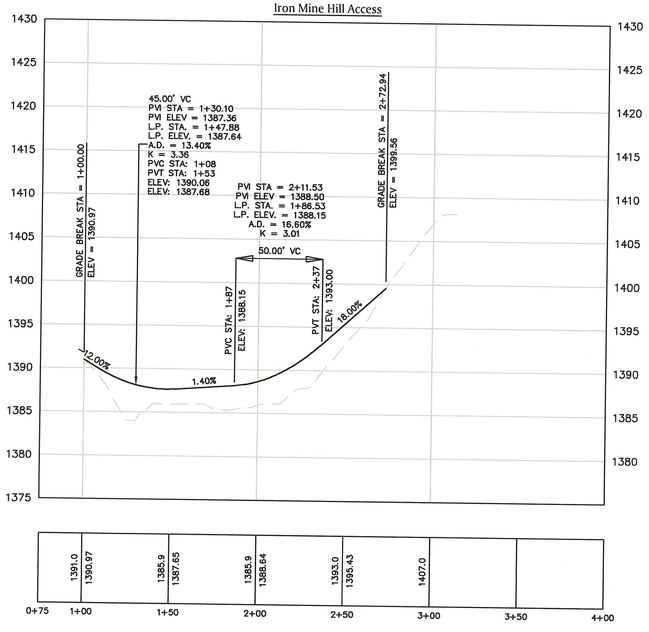
FILE: 8984045 – SHEET FILES.DWG

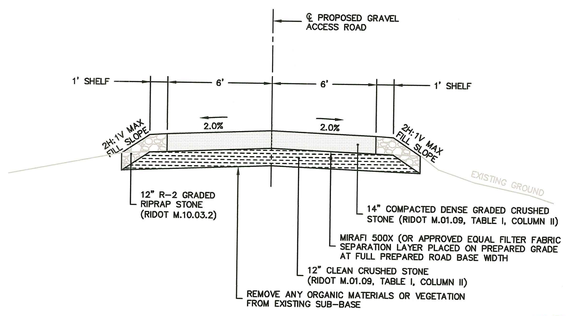
DWG. NO:

JOB. NO: 89840.45

PP-01

Iron Mine Hill Access





12'W GRAVEL ACCESS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
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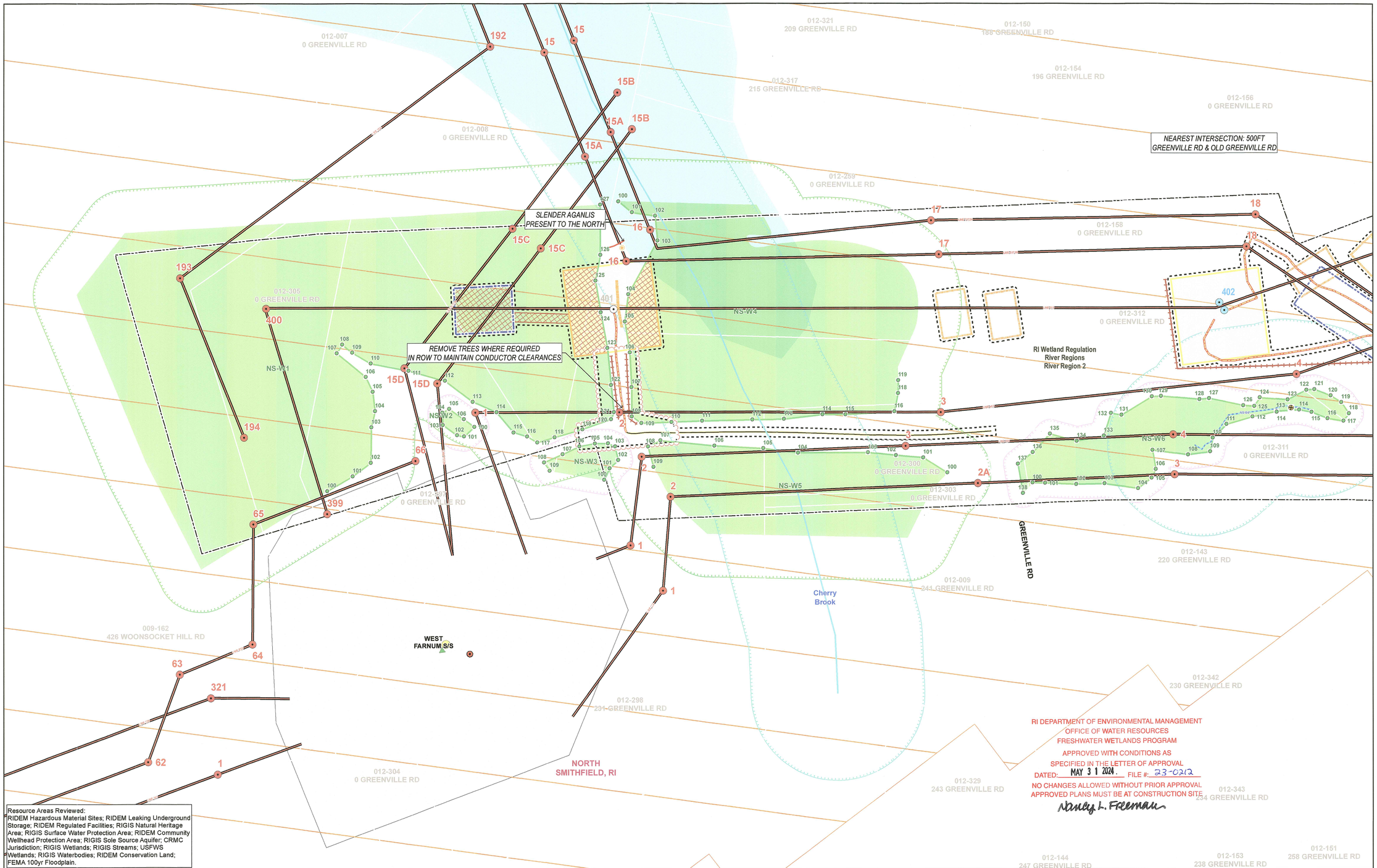
Nancy L. Freeman

RI Environmental Management
APR 22 2024
Office of Water Resources

ISSUED FOR PERMITTING



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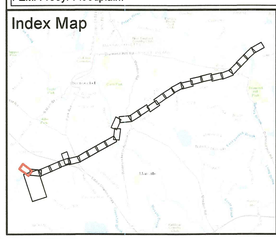
Nancy L. Freeman

Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

Index Map



Legend

- Install Structure (Direct Embed)
- Replace Structure (Direct Embed)
- Install Structure (3) Caissons
- Replace Structure with (2) Caissons
- Replace Structure with (3) Caissons
- General Structure Maintenance
- Remove Structure
- Existing Overhead Line

Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

- Work Envelope (Mow ONLY)
- Work Envelope (Grading)
- Temporary Guard Structure Envelope
- Pull Pad Work Envelope (Mow ONLY)
- Limit of Grading
- Limit of Disturbance

Existing Conditions

- Existing Structure
- Existing Access - Refresh with Stone
- Existing Access - No Improvements
- Alternate Existing Access - No Improvements
- Right-of-Way
- Tree Removal Area
- Field Delineated Stream Centerline
- ASSF
- Wetland Flag
- Field Delineated Wetland Line
- Field Delineated Wetland
- Streams
- 25ft Buffer to Wetlands < 1 acre (River Region 2)
- 75ft Buffer to Wetlands ≥ 1 acre (River Region 2)
- 100ft Buffer to Miscoe Lake
- 150ft Buffer to Streams (River Region 2)
- 200ft Buffer to Blackstone River
- FEMA BFE Line
- FEMA 100yr Floodplain*
- Natural Heritage Area
- Conservation Land
- Surface Water Protection Area
- Approximate Pipeline
- Culvert
- Access Gate
- Stone Walls
- Fenceline
- Sensitive Resource Protective Fencing
- Sensitive Resource Area
- Field Identified Protected Resource Point
- Field Identified Protected Resource Line
- Field Identified Protected Resource Area
- Sediment Controls
- Parcel Boundary
- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet
0 50 100
Feet

Parcel ID:
009-162
012-008
012-009
012-143
012-156
012-158
012-259
012-297
012-298
012-300
012-303
012-304
012-305
012-311
012-312
012-342

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 1 of 28

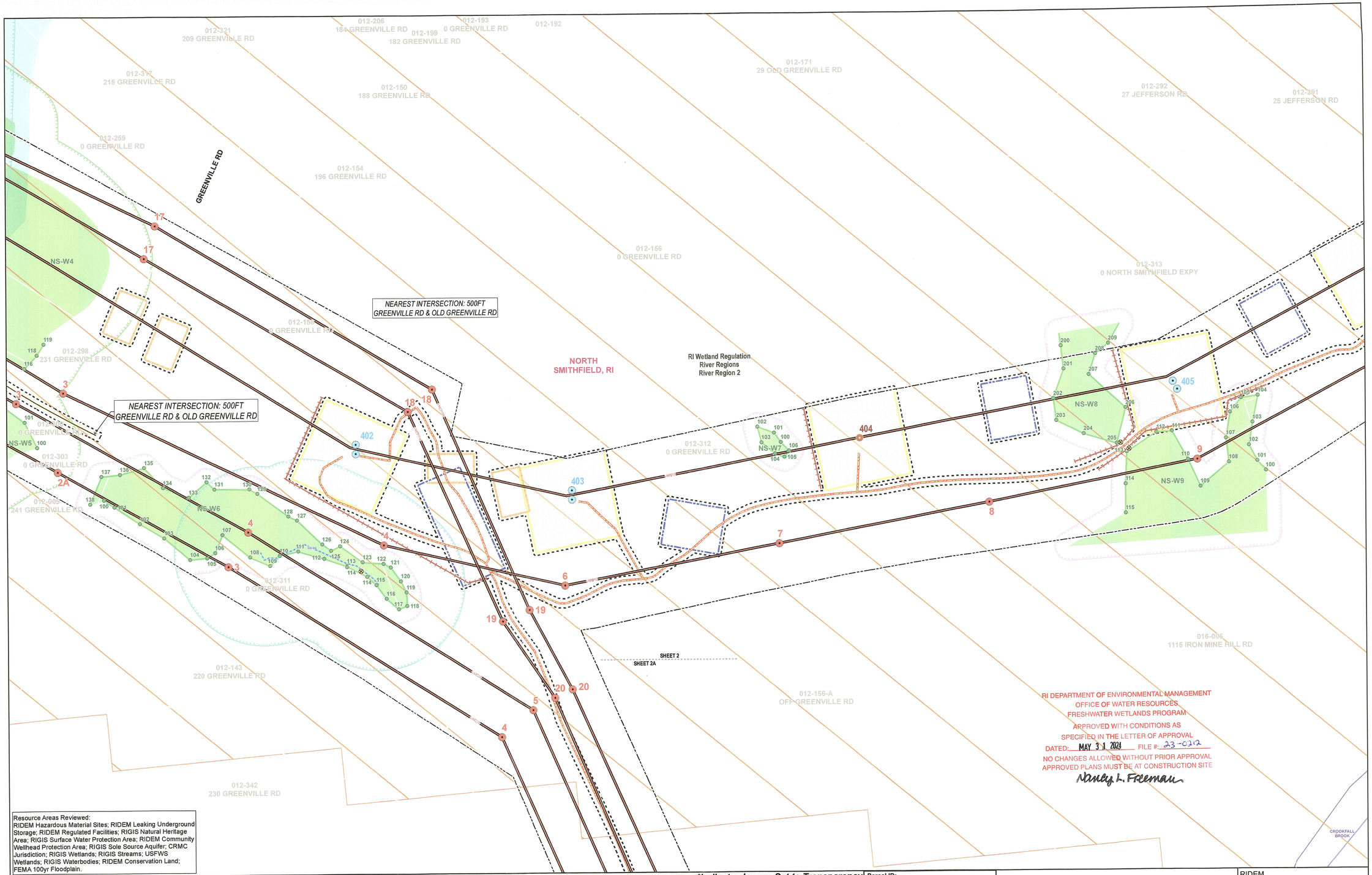
Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

nationalgrid
BSC GROUP

RI Environmental Management
APR 22 2024
Office of Water Resources

THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE.



Resource Areas Reviewed:
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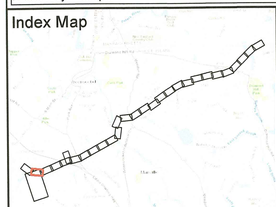
Index Map



Legend

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Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

- Work Envelope (Mow ONLY)
- Work Envelope (Grading)
- Temporary Guard Structure Envelope
- Pull Pad Work Envelope (Mow ONLY)
- Limit of Grading
- Limit of Disturbance

Existing Conditions

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EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet

0 50 80 100

Feet

Parcel ID:
012-143
012-154
012-156
012-156-A
012-158
012-311
012-312
012-313
016-006

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 2 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
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RI Environmental Management
APR 22 2024
Office of Water Resources

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012-292
27 JEFFERSON RD
012-313
0 NORTH SMITHFIELD EXIT
012-171
29 OLD GREENVILLE RD
012-156
0 GREENVILLE RD
012-158
0 GREENVILLE RD
012-259
0 GREENVILLE RD
012-311
0 GREENVILLE RD
012-143
220 GREENVILLE RD
012-342
230 GREENVILLE RD
012-343
234 GREENVILLE RD
012-153
238 GREENVILLE RD
012-298
231 GREENVILLE RD
012-329
243 GREENVILLE RD
012-009
241 GREENVILLE RD
012-144
247 GREENVILLE RD
012-332
281 GREENVILLE RD
012-333
291 GREENVILLE RD
012-334
299 GREENVILLE RD
012-142
278 GREENVILLE RD
012-163
268 GREENVILLE RD
012-151
258 GREENVILLE RD
012-331
288 GREENVILLE RD
012-156-A
OFF GREENVILLE RD
016-006
1115 IRON MINE HILL RD
016-005
1175 IRON MINE HILL RD
016-004
1275 IRON MINE HILL RD
016-077
1285 IRON MINE HILL RD
016-003
1365 IRON MINE HILL RD
016-103
1375 IRON MINE HILL RD
016-002
1387 IRON MINE HILL RD
016-033
1120 IRON MINE HILL RD
016-041
1145 IRON MINE HILL RD
016-120-A
0 IRON MINE HILL RD
016-039
1130 IRON MINE HILL RD
016-104
1180 IRON MINE HILL RD
016-075
016-030
1230 IRON MINE HILL RD
016-121
1265 IRON MINE HILL RD
016-042
1240 IRON MINE HILL RD
016-059
1200 IRON MINE HILL RD
016-056
1295 IRON MINE HILL RD
016-107
1315 IRON MINE HILL RD
016-096
1366 IRON MINE HILL RD
016-117
1262 IRON MINE HILL RD
016-116
1276 IRON MINE HILL RD
016-115
1290 IRON MINE HILL RD
016-095
OFF IRON MINE HILL RD
016-114
1320 IRON MINE HILL RD
016-113
1362 IRON MINE HILL RD
016-110
1380 IRON MINE HILL RD
016-109
1386 IRON MINE HILL RD
016-074
0 GREENVILLE RD
016-136
0 POMONA ST
016-130
155 POMONA ST
IRON MINE HILL RD
CROOKFALL BROOK
NORTH SMITHFIELD, RI
GREENVILLE RD
Cherry Brook
WOONSOCKET RESERVOIR #3
SHEET 1
SHEET 2A
NS-W6
NS-W8
NS-W5
NS-W9
RI Wetland Regulation
River Regions
River Region 2
NEAREST INTERSECTION: 3,500FT
IRON MINE HILL RD & GREENVILLE RD

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Nancy L. Freeman

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0 100 200
Feet

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012-009	016-003
012-142	016-004
012-143	016-005
012-144	016-006
012-151	016-0
012-153	
012-156	
012-156-A	
012-158	
012-163	
012-311	
012-312	
012-329	
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012-342	
012-343	
015-074	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 2A of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

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RI Environmental Management
APR 22 2024
Office of Water Resources

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012-140
0 OLD GREENVILLE RD

012-171
29 OLD GREENVILLE RD

012-292
27 JEFFERSON RD

012-291
25 JEFFERSON RD

012-156
0 GREENVILLE RD

012-299
0 OLD GREENVILLE RD

012-136
0 OLD GREENVILLE RD

012-313
0 NORTH SMITHFIELD EXPY

NEAREST INTERSECTION: 4,000FT
GREENVILLE RD & OLD GREENVILLE RD

BUILD ROAD OR MAT
TO SPLICE LOCATION

RI Wetland Regulation
River Regions
River Region 2

NORTH
SMITHFIELD, RI

012-312
0 GREENVILLE RD

404 405 406 407 408

8 9 10 11 12 13

NS-W8 NS-W9 NS-W10 NS-W11

012-306
0 NORTH SMITHFIELD EXPY

012-310
0 NORTH SMITHFIELD EXPY

012-156-A
OFF GREENVILLE RD

016-006
1115 IRON MINE HILL RD

012-136-B
OFF NORTH SMITHFIELD EXPY

CROOKFALL BROOK

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

***Indicates Layers Set to Transparency**

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0 50 100
Feet

Parcel ID:
012-136-B
012-156
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012-291
012-292
012-299
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012-310
012-312
012-313
016-006

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 3 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
APR 22 2024
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012-295
24 JEFFERSON RD

012-140
0 OLD GREENVILLE RD

012-376
21 DEERFIELD DR

012-375
23 DEERFIELD DR

012-374
25 DEERFIELD DR

012-299
0 OLD GREENVILLE RD

012-136
0 OLD GREENVILLE RD

012-152
0 NORTH SMITHFIELD EXPY

N SMITHFIELD EXPY

N SMITHFIELD EXPY

NEAREST INTERSECTION: 4,000FT
GREENFIELD RD & NORTH SMITHFIELD EXPY

NORTH SMITHFIELD, RI

RI Wetland Regulation
River Regions
River Region 2

408

409

410

411

12

13

14

15

16

17

NS-W10

NS-W11

NS-W12

NS-W13

NS-W14

NS-W15

012-306
0 NORTH SMITHFIELD EXPY

012-310
0 NORTH SMITHFIELD EXPY

012-318
0 NORTH SMITHFIELD EXPY

016-006
1115 IRON MINE HILL RD

012-136-B
OFF NORTH SMITHFIELD EXPY

012-326
0 NORTH SMITHFIELD EXPY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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RI Wetland Regulation River Regions

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Feet

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

North Smithfield Expressway
North Smithfield, RI
Page 4 of 28

Plan Prepared By: RGS
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012-376
21 DEERFIELD DR

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012-374
25 DEERFIELD DR

NORTH
SMITHFIELD, RI

012-131
0 HANTON RD

012-324
0 HANTON RD

013-161
136 HANTON RD

013-006
15 SHADY LN

013-162
140 HANTON RD

N SMITHFIELD EXPY

N SMITHFIELD EXPY

012-152
0 NORTH SMITHFIELD EXPY

RI Wetland Regulation
River Regions
River Region 2

SHEET 5A

SHEET 5

REMOVE TREES WHERE REQUIRED
IN ROW TO MAINTAIN
CONDUCTOR CLEARANCES

NEAREST INTERSECTION: 3,000FT
GREENFIELD RD & NORTH SMITHFIELD EXPY

012-136
0 OLD GREENVILLE RD

013-157
OFF HANTON RD

013-009
367 EDDIE DOWLING HWY

013-153
OFF EDDIE DOWLING HWY

013-145
0 EDDIE DOWLING HWY

NS-W12

NS-W13

NS-W14

NS-W15

NS-W15A

NS-W16

NS-W17

012-310
0 NORTH SMITHFIELD EXPY

012-318
0 NORTH SMITHFIELD EXPY

012-326
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012-136-B
OFF NORTH SMITHFIELD EXPY

CROOKFALL
BROOK

013-144
OFF EDDIE DOWLING HWY

013-103
395 EDDIE DOWLING HWY

013-104
415 EDDIE DOWLING HWY

012-137
OFF NORTH SMITHFIELD EXPY

013-010-A
OFF NORTH SMITHFIELD EXPY

BUILD ROAD OR MAT
TO SPLICE LOCATION

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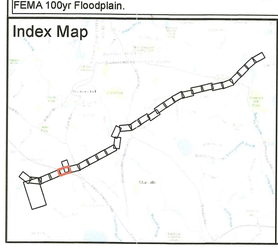

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315 LINE PROJECT PHASE 4B

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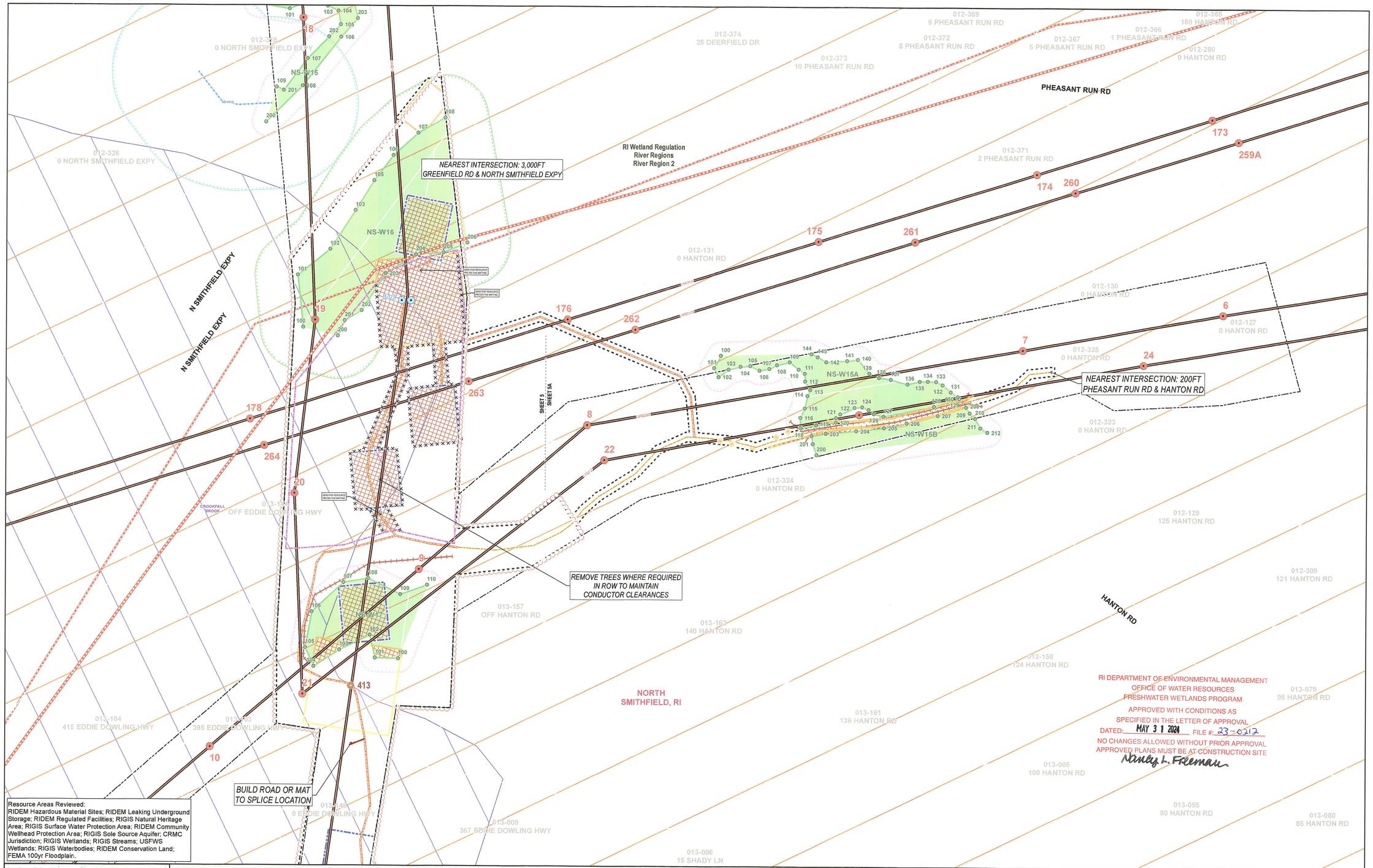

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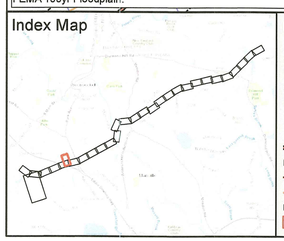
Index Map



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***Indicates Layers Set to Transparency**

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0 50 100

Feet

Parcel ID:
012-127
012-129
012-130
012-131
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012-324
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013-005
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013-144
013-145
013-157
013-158
013-161
013-162

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Hanton Road
North Smithfield, RI
Page 5A of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
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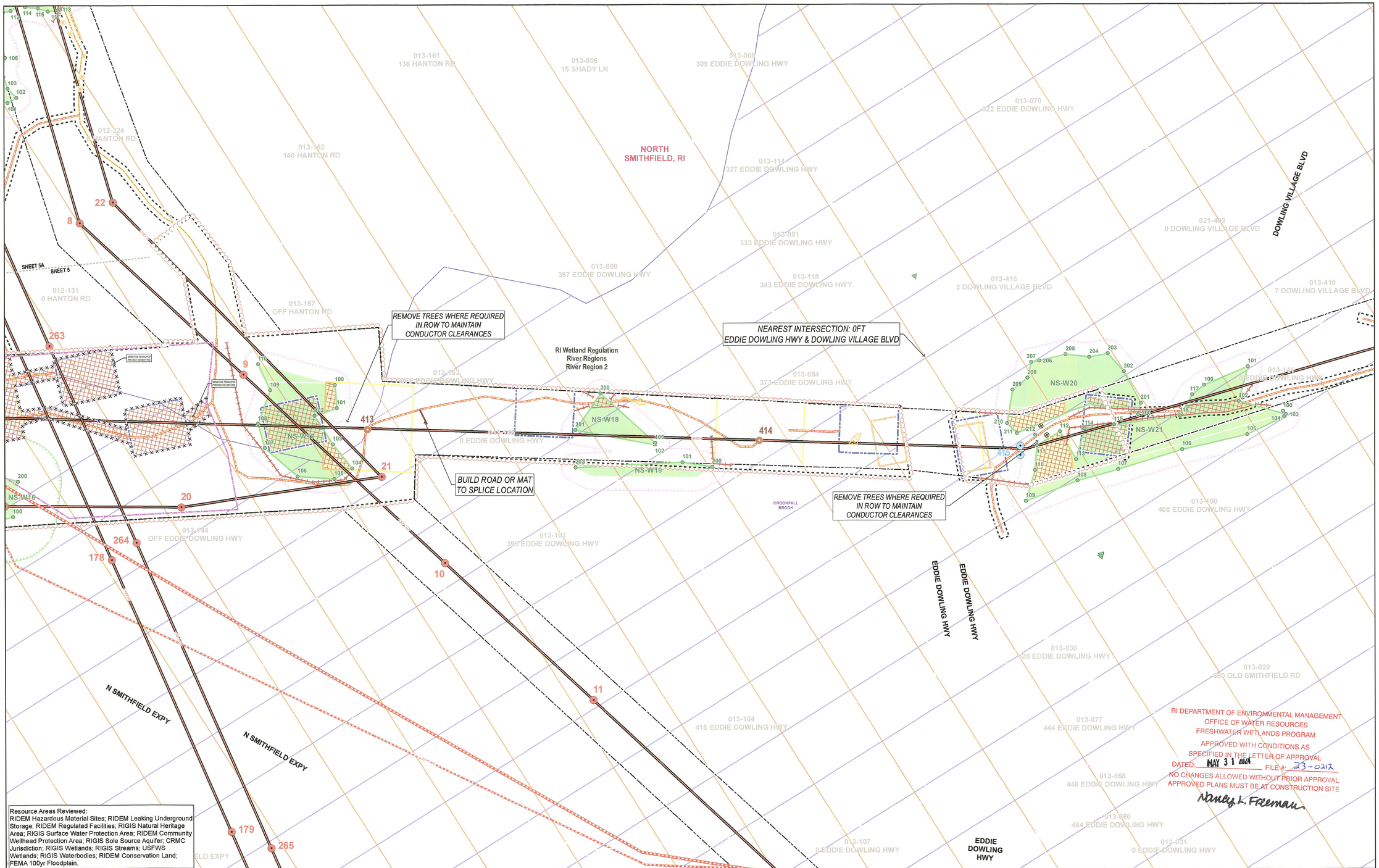

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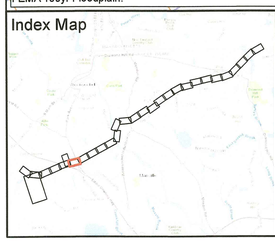

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Eddie Dowling Highway
North Smithfield, RI
Page 6 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

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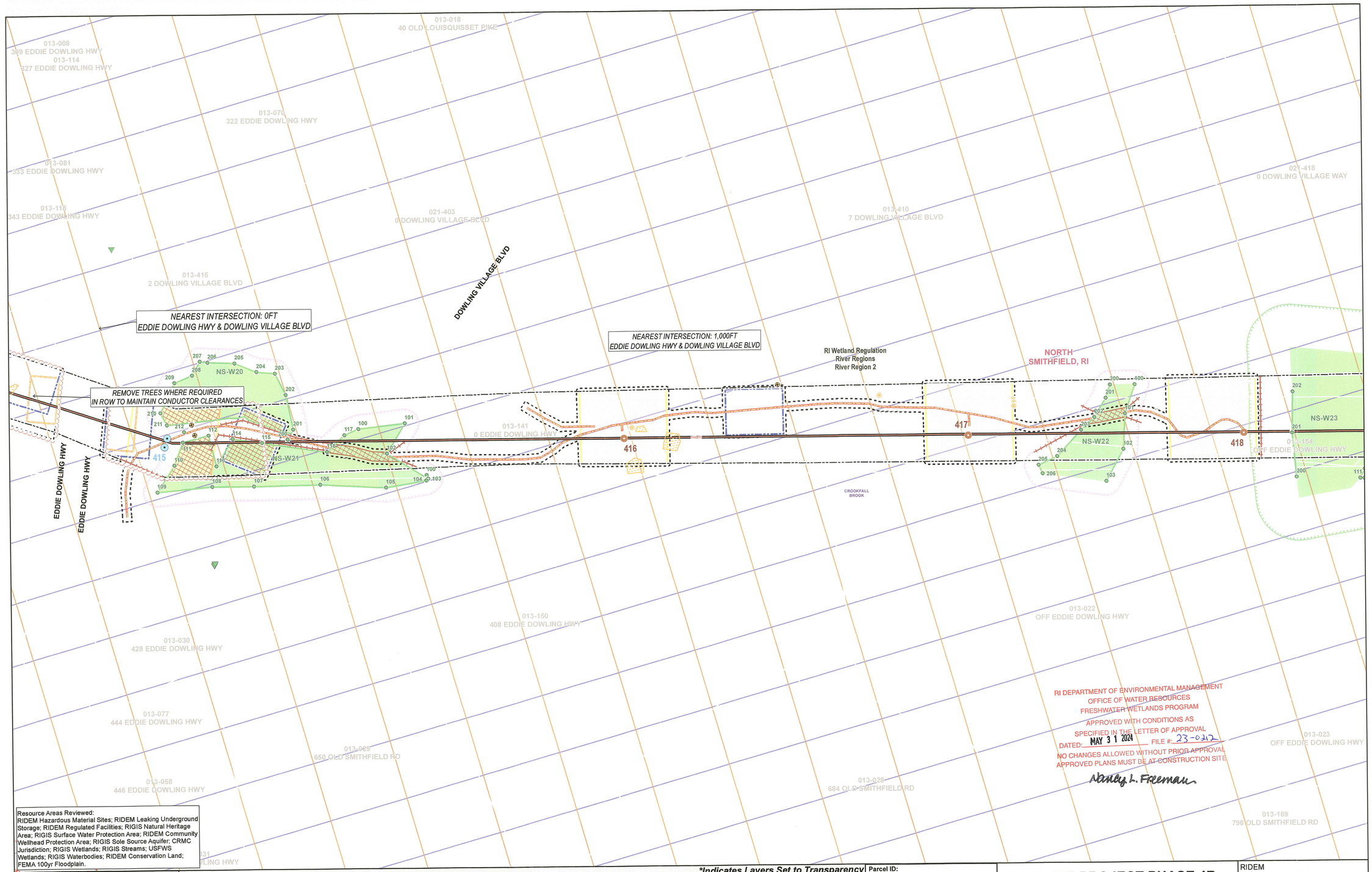

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OFFICE OF WATER RESOURCES
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DATED: MAY 31 2024 FILE #: 23-0212
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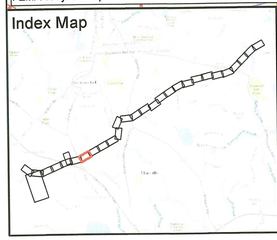

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Dowling VIllage Boulevard
North Smithfield, RI
Page 7 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
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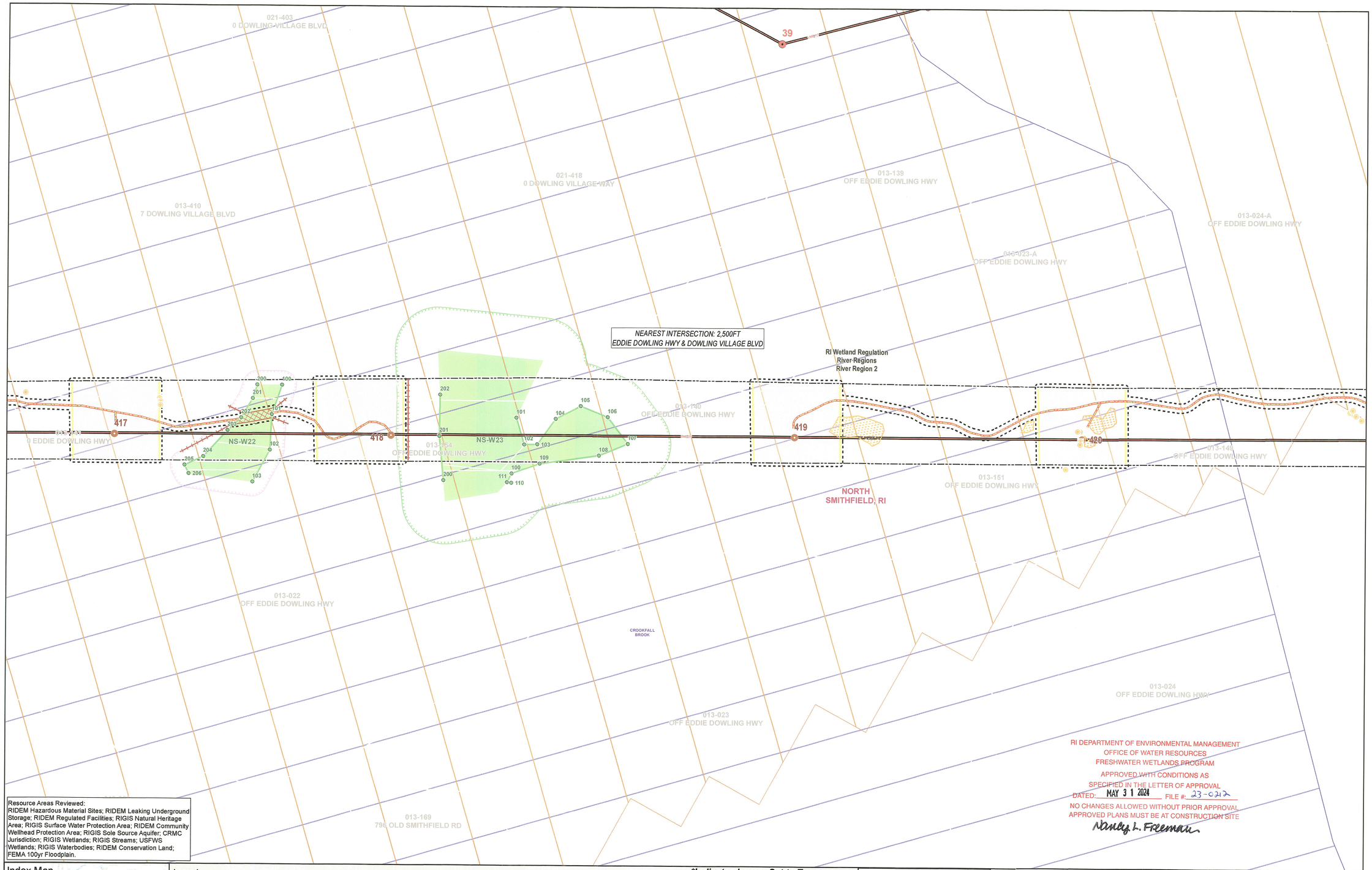

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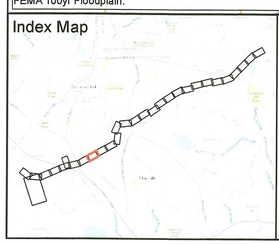

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013-154
013-410
021-418

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Dowling Village Boulevard
North Smithfield, RI
Page 8 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
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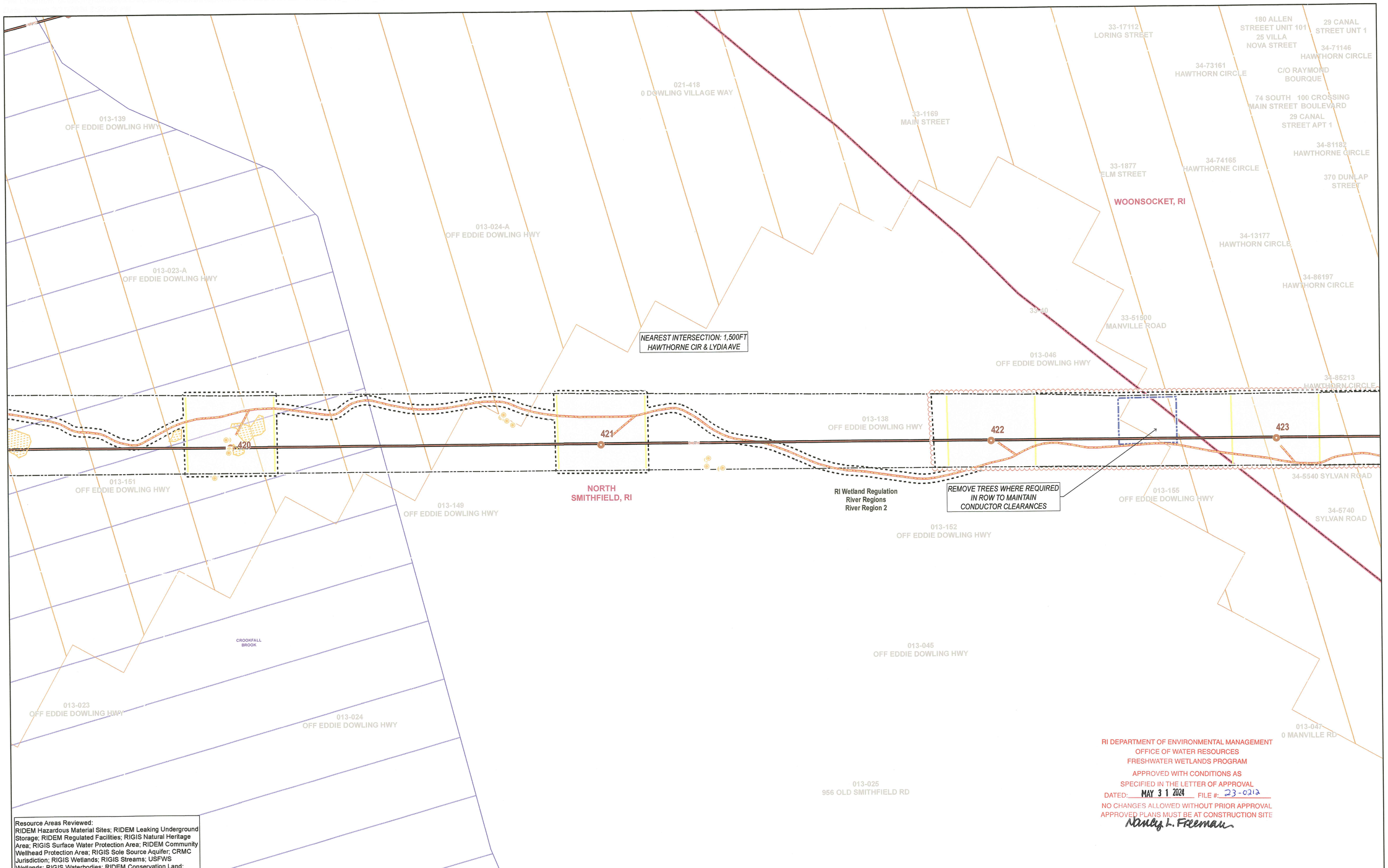

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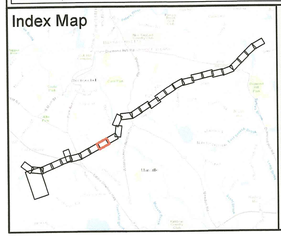

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315 LINE PROJECT PHASE 4B

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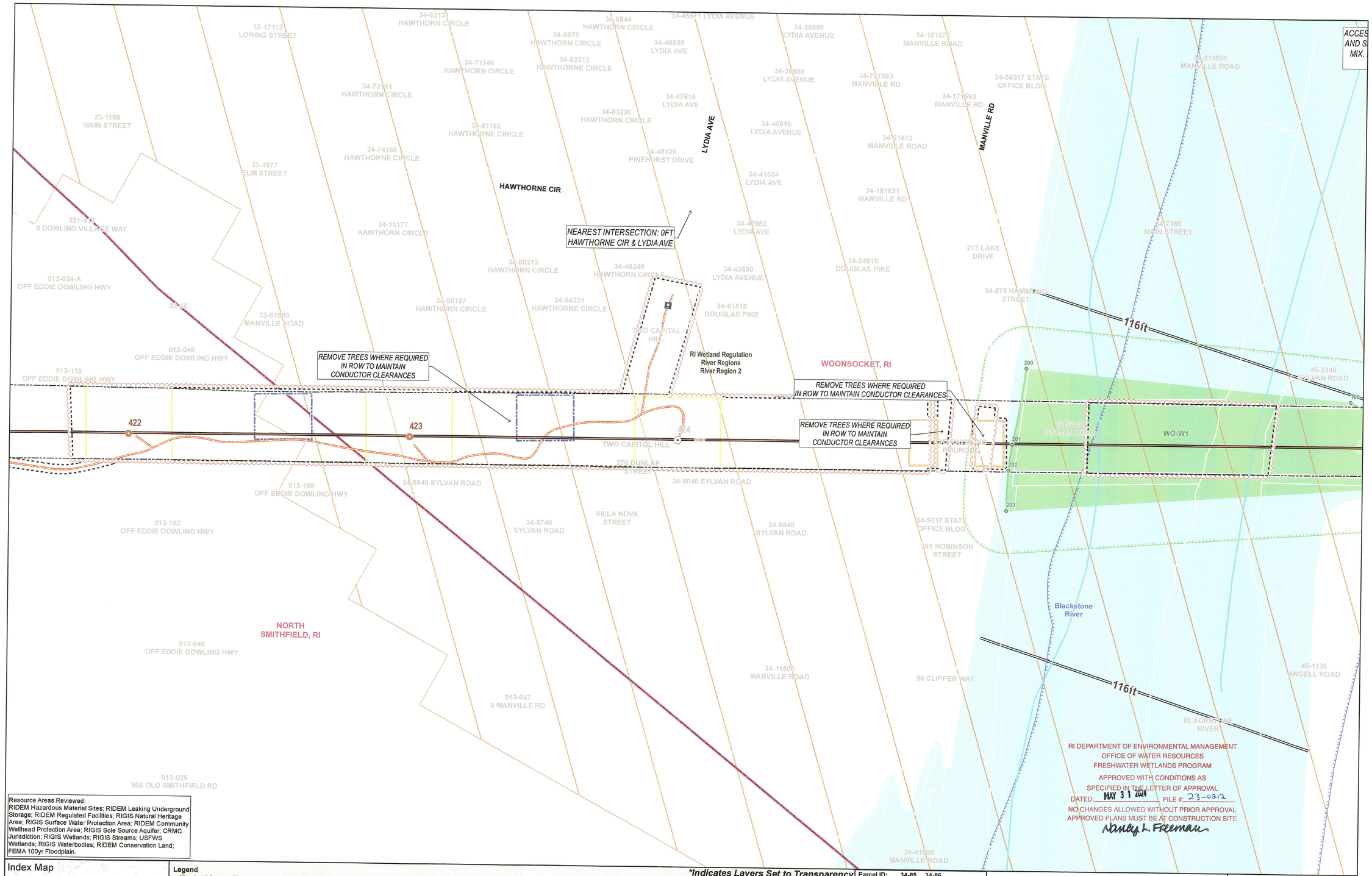

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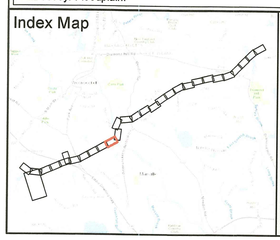

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34-48	34-49	
34-5	34-50	
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315 LINE PROJECT PHASE 4B

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Mainville Road
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REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

MANVILLE RD

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

WS-W1

116ft

116ft

117ft

Blackstone River

ACCESS ROAD WILL BE OVER-EXCAVATED AND SEEDED WITH CONSERVATION SEED MIX. NO IMPACTS TO FLOODPLAIN ARE PROPOSED.

RI Wetland Regulation
River Regions
River Region 2

STEEP SLOPES

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

REFER TO TYPICAL ACCESS ROAD DETAIL ON SHEET TYP-01

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

WOONSOCKET, RI

NEAREST INTERSECTION: 0FT DANIELLE DR & LOUISE ST

LOUISE ST

DANIELLE DR

VIVIAN ST

BURRINGTON ST

LARCH ST

FIELDSIDE DR

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 31 2024 FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
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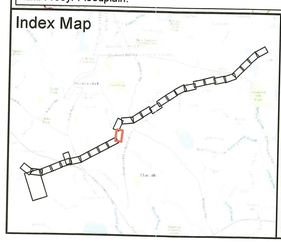
Index Map



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- Widen & Refresh with Stone

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EPCRA Tier II Facilities (2021)
- Not in DWS

RI Wetland Regulation River Regions
- River Region 2

*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet

0 50 80 100

Feet

N

Parcel ID:
4-21 34-34
34-5 34-56
34-7 34-7
44-146 44-29
44-3 44-31
44-32 44-33
44-34 44-35
45-1 45-23
45-29

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Mainville Road
Woonsocket, RI
Page 11 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
APR 22 2024
Office of Water Resources

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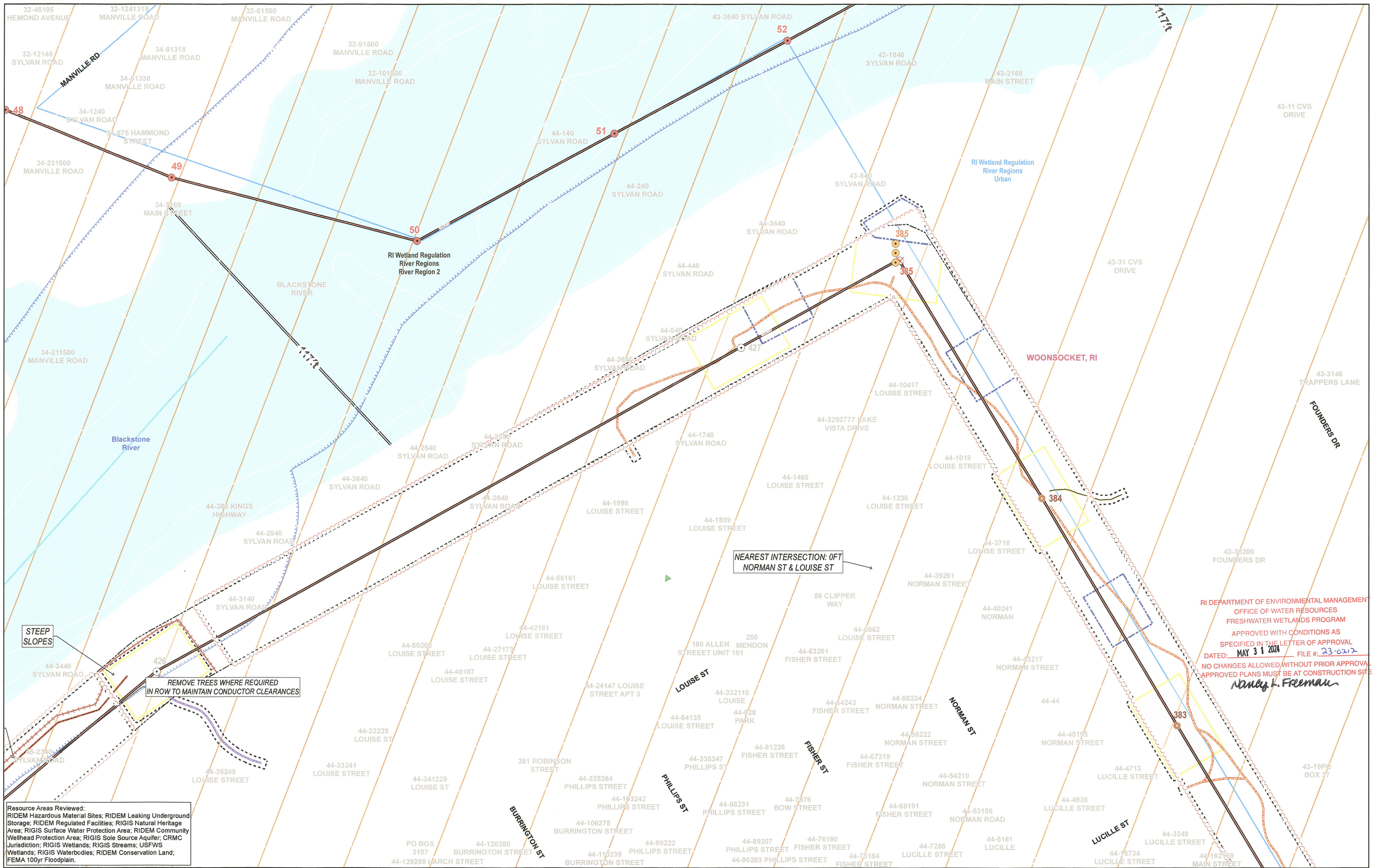

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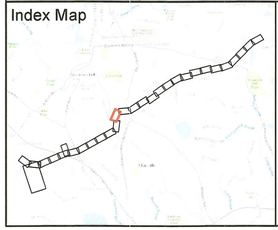

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Parcel ID:

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44-10	44-104
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44-25	44-26
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44-329	44-33
44-332	44-34
44-341	44-35
44	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Louise Street
Woonsocket, RI
Page 12 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
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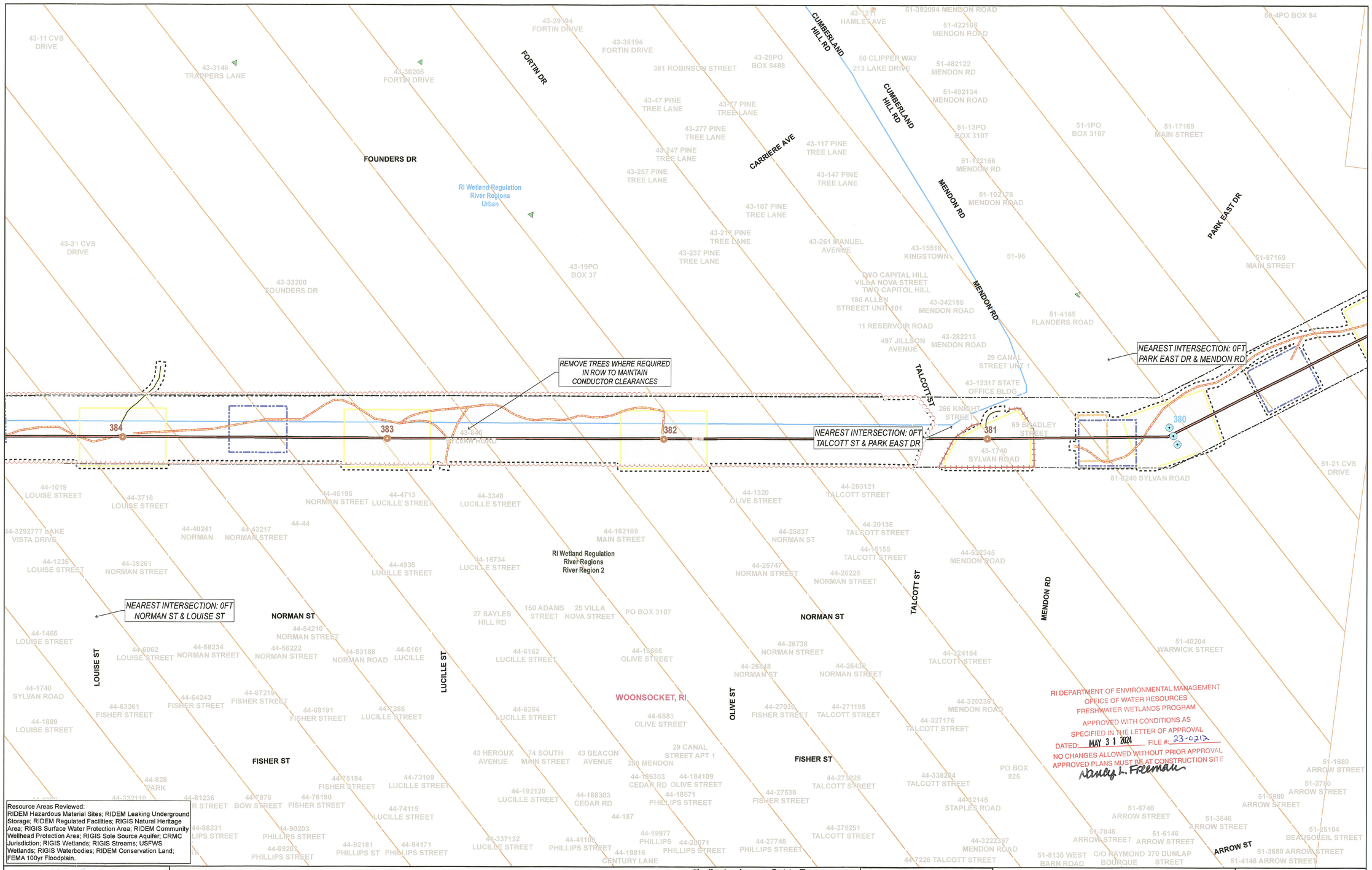

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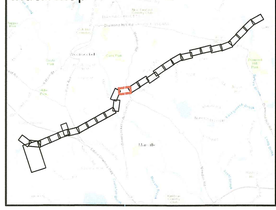

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0 50 100

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N

Parcel ID:

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43-12	43-14	44-268
43-15	43-17	
43-19	43-21	
43-23	43-24	
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44-257		
44-258		
44-260		
44-262		
44-264		

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Cumberland Hill Road
Woonsocket, RI
Page 13 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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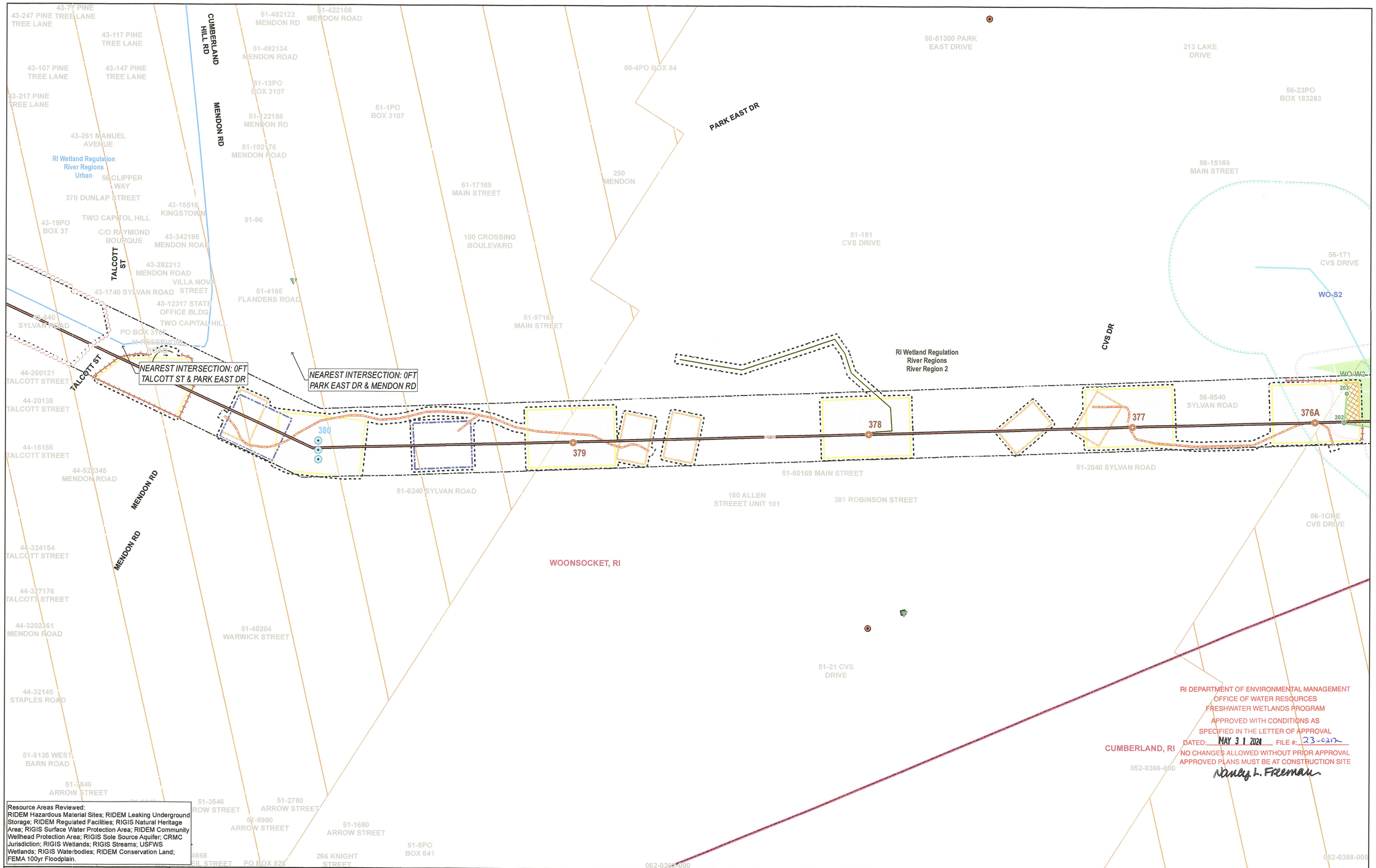

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Parcel ID:
052-0366-000
51-1 51-10
51-17 51-18
51-2 51-20
51-4 51-40
51-50 51-62
51-96 51-97
56-15 56-85
56-85

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Park East Drive
Woonsocket, RI
Page 14 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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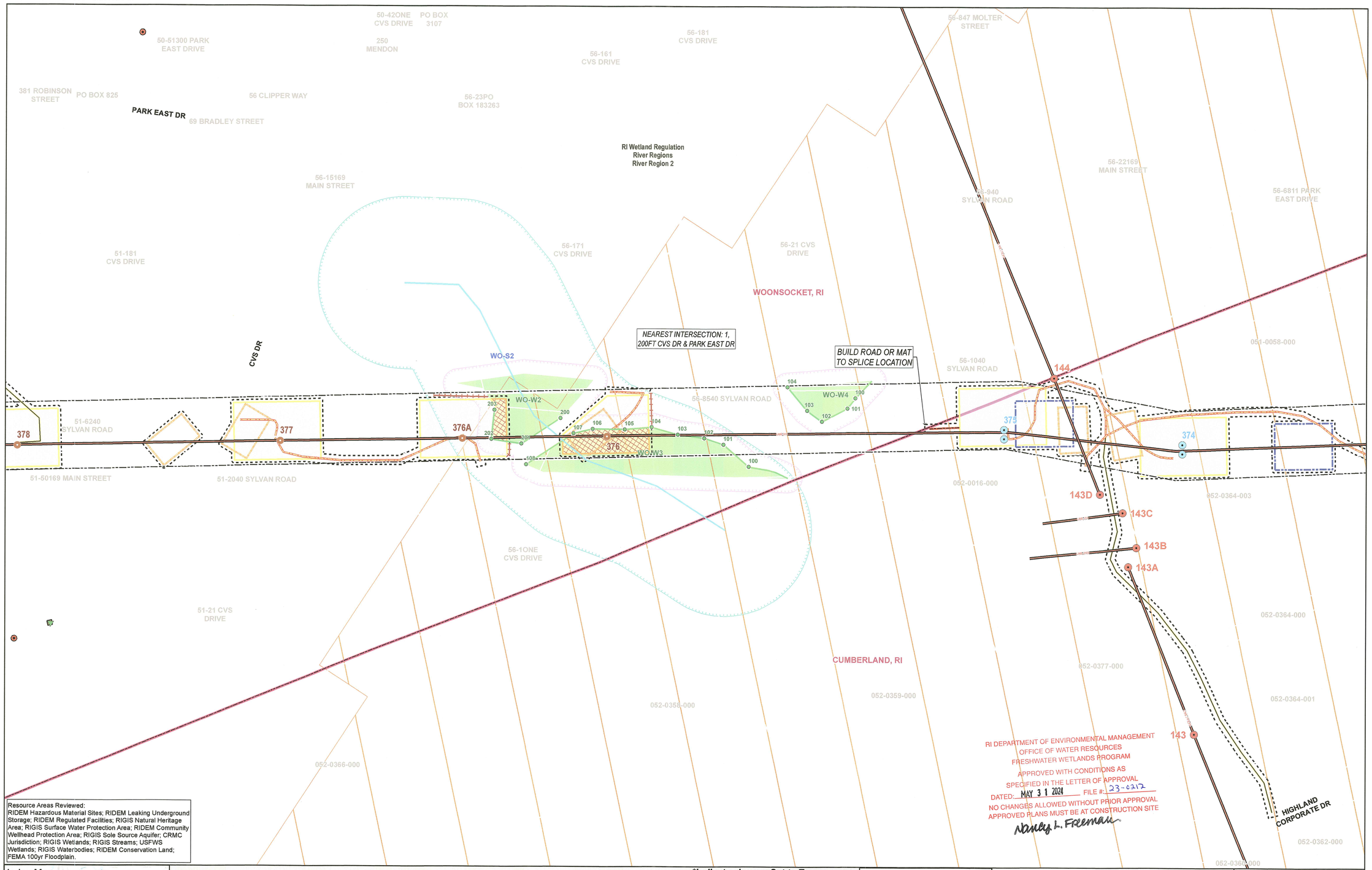

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

CVS Drive
Cumberland & Woonsocket, RI
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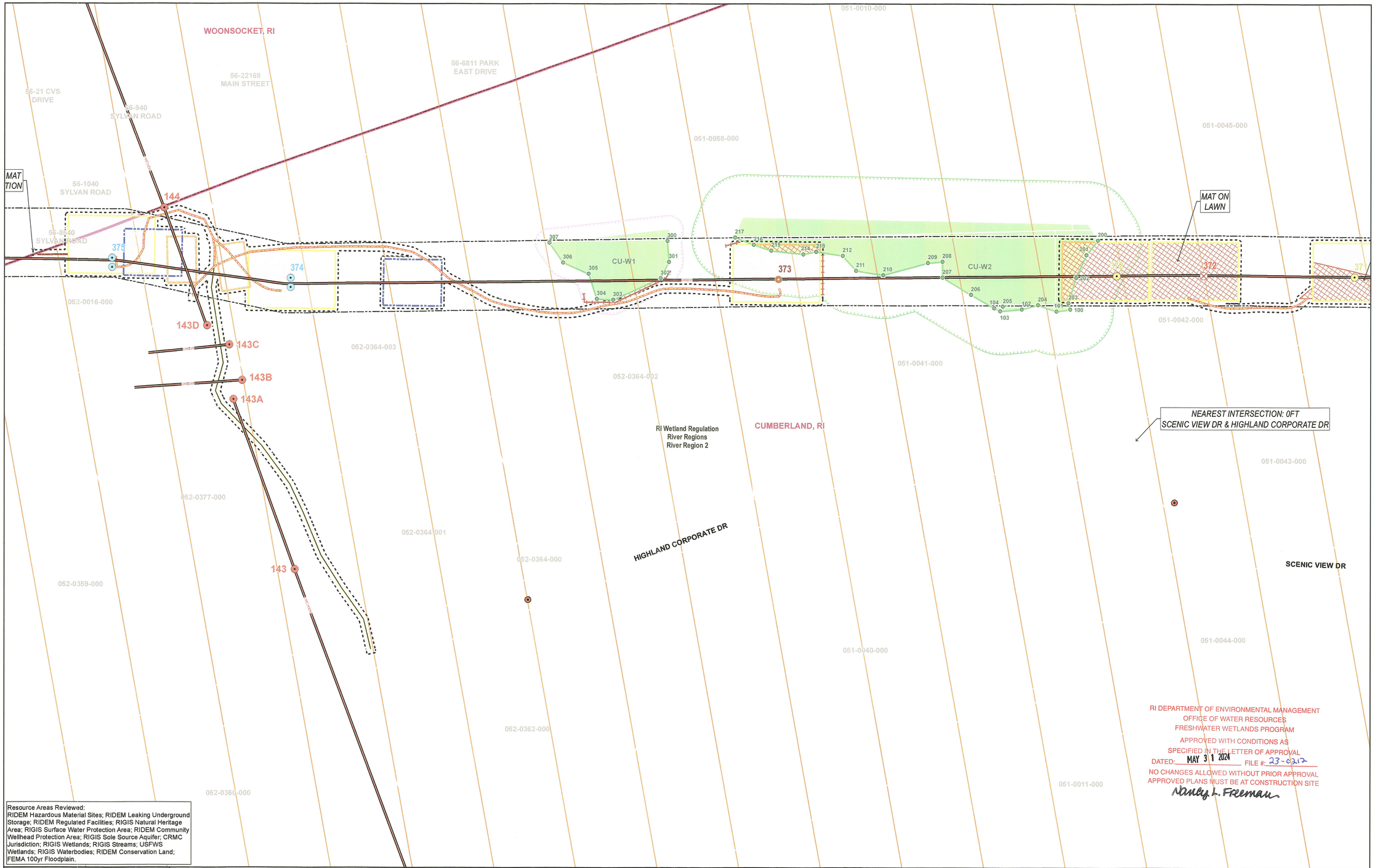

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052-0360-000
052-0362-000
052-0364-000
052-0364-001
052-0364-002
052-0364-003
052-0377-000
56-22 56-6

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Highland Corporate Drive
Cumberland & Woonsocket, RI
Page 16 of 28

Plan Prepared By: RGS
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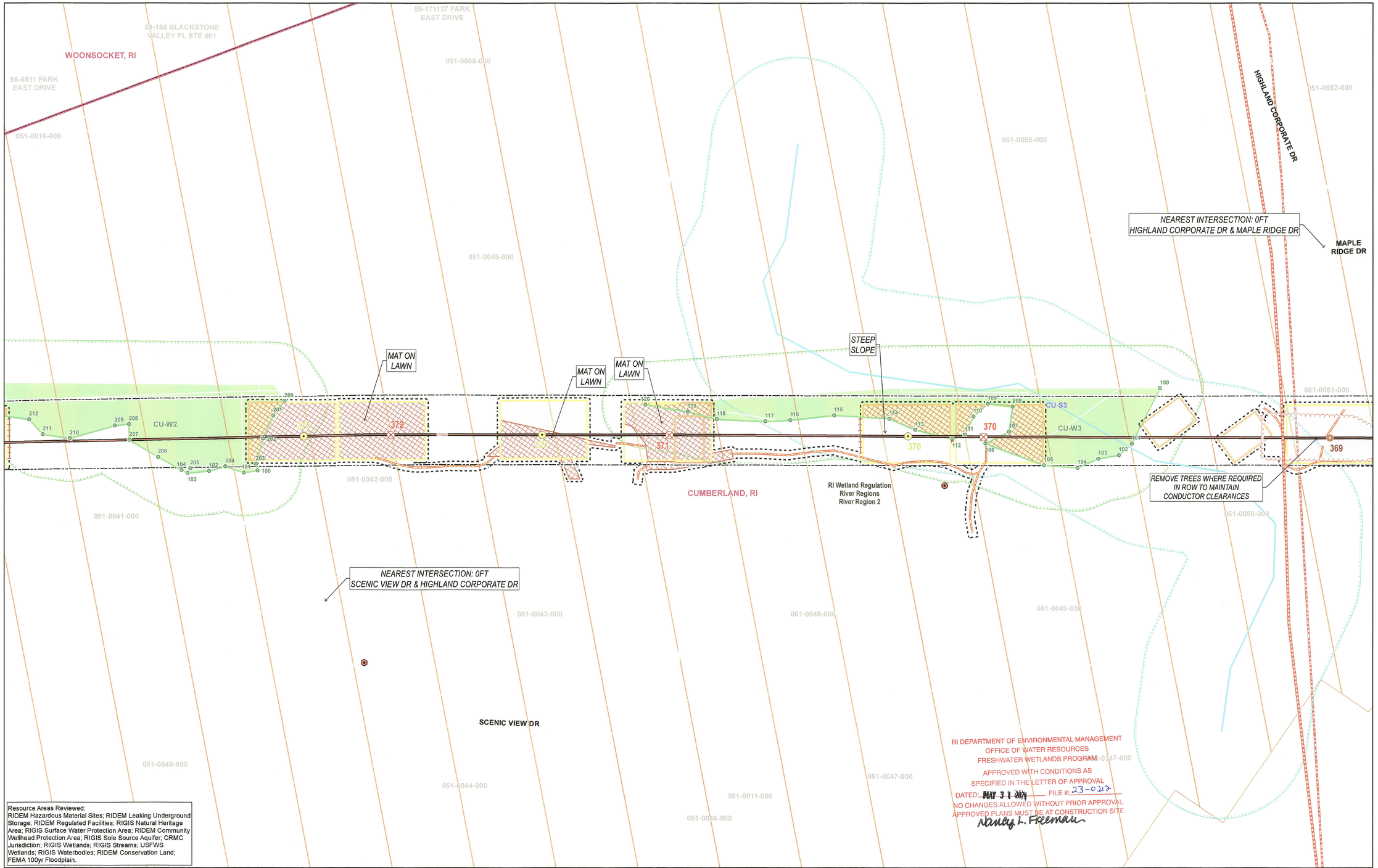

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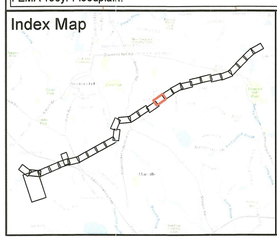

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Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

- Work Envelope (Mow ONLY)
- Work Envelope (Grading)
- Temporary Guard Structure Envelope
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- Parcel Boundary
- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet

0 50 100

Feet

Parcel ID:
051-0040-000
051-0041-000
051-0042-000
051-0043-000
051-0045-000
051-0047-000
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051-0049-000
051-0050-000
051-0055-000
051-0058-000
052-0347-000

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Park East Drive
Cumberland, RI
Page 17 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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APR 22 2024
Office of Water Resources

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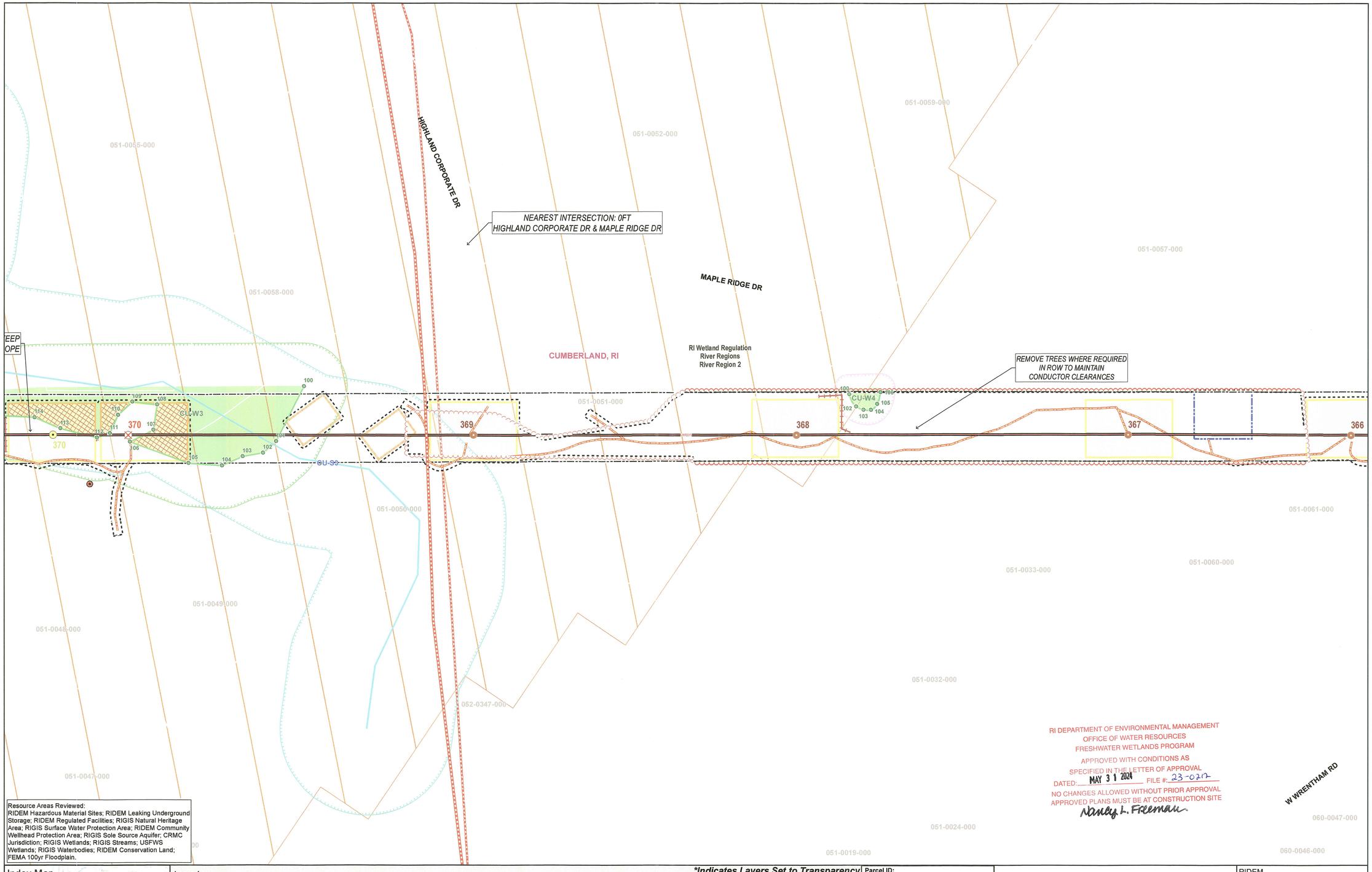

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OFFICE OF WATER RESOURCES
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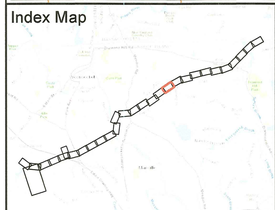
Nancy L. Freeman

RI Environmental Management
APR 22 2024
Office of Water Resources

Index Map



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RI Wetland Regulation River Regions

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051-0050-000
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051-0059-000
051-0060-000
052-0347-000

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Maple Ridge Drive
Cumberland, RI
Page 18 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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28 of 38

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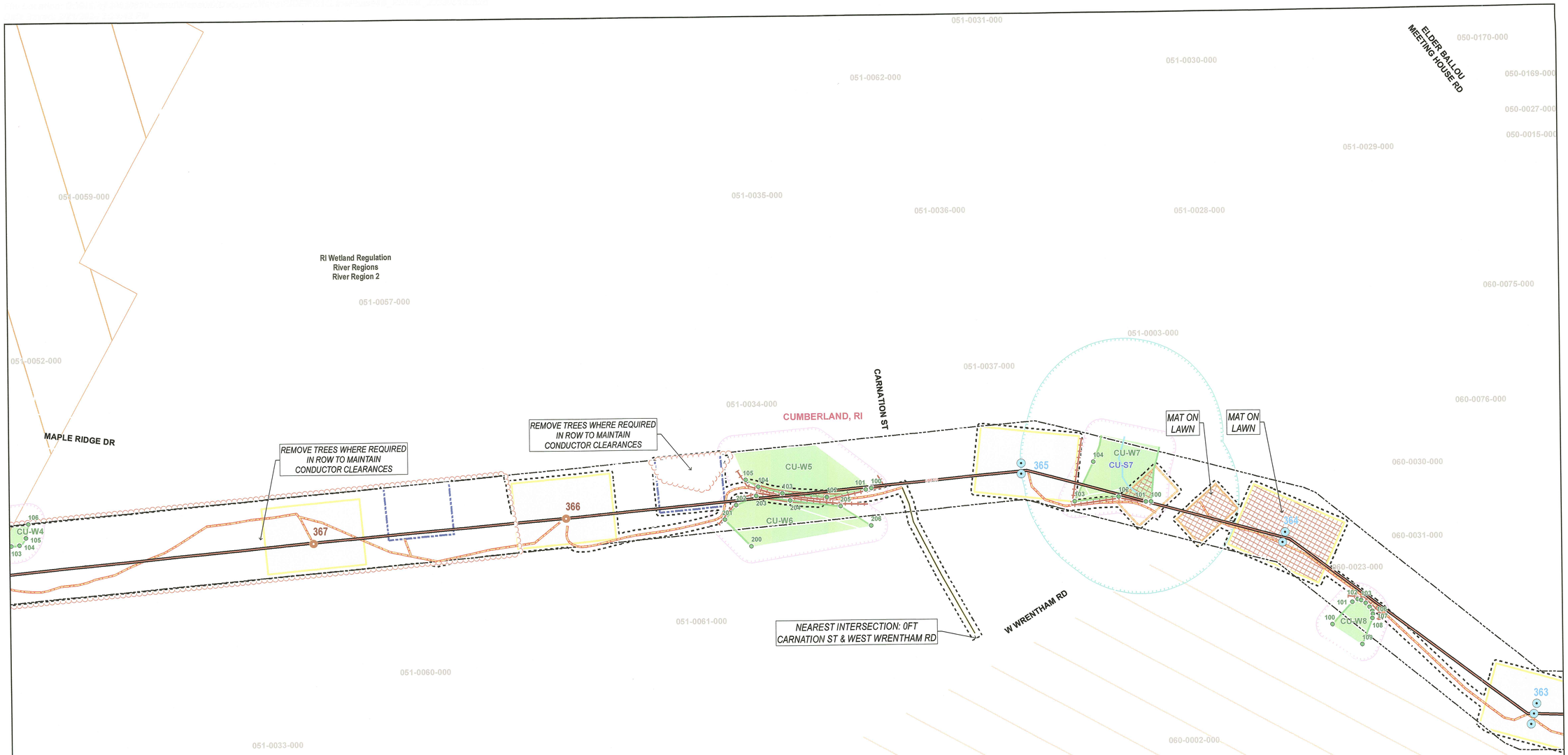

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Nancy L. Freeman

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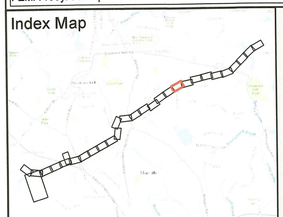

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EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

***Indicates Layers Set to Transparency**

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Feet

Parcel ID:
051-0035-000
051-0028-000
051-0036-000
051-0037-000
060-0023-000
051-0057-000
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060-0048-000
051-0033-000

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
Cumberland, RI
Page 19 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
APR 22 2024
Office of Water Resources

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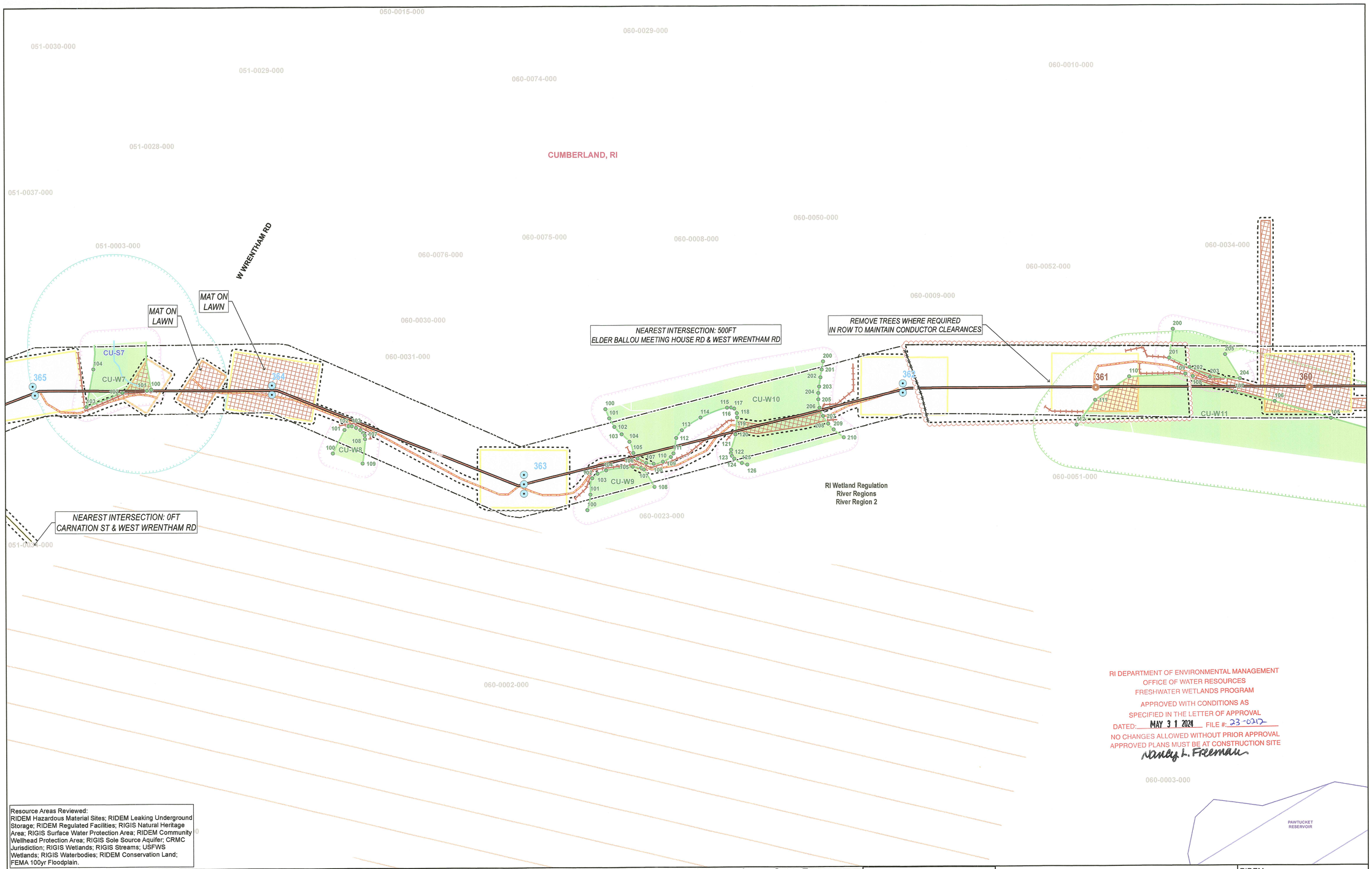

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED: MAY 31 2024 FILE #: 23-0217
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Nancy L. Freeman

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EPCRA Tier II Facilities (2021)

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RI Wetland Regulation River Regions

- River Region 2

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N

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0 50 100

Feet

Parcel ID:
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051-0028-000
060-0002-000
060-0003-000
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060-0052-000
060-0074-000
060-0075-000
060-0076-000

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
Cumberland, RI
Page 20 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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APR 22 2024
Office of Water Resources

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060-0067-000

060-0011-000

060-0036-000

060-0010-000

NEAREST INTERSECTION: 1,400FT
WEST WRENTHAM RD & VANDAY LN

060-0052-000

CUMBERLAND, RI

RI Wetland Regulation
River Regions
River Region 2

060-0034-000

MAT ON FIELD

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

060-0050-000

060-0051-000

365

361

360

359

358

CU-W11

CU-W12

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

060-0023-000

060-0009-000

060-0016-000

060-0003-000

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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APPROVED WITH CONDITIONS AS
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DATED: MAY 31 2024 FILE #: 23-0212

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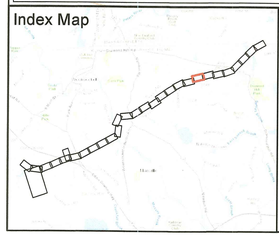

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EPCRA Tier II Facilities (2021)

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060-0034-000
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060-0052-000

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
Cumberland, RI
Page 21 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

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CUMBERLAND, RI

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060-0034-000

358

CU-W12

357

356

CU-W13

355

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

060-0016-000

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

061-0002-000

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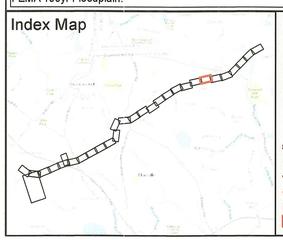

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
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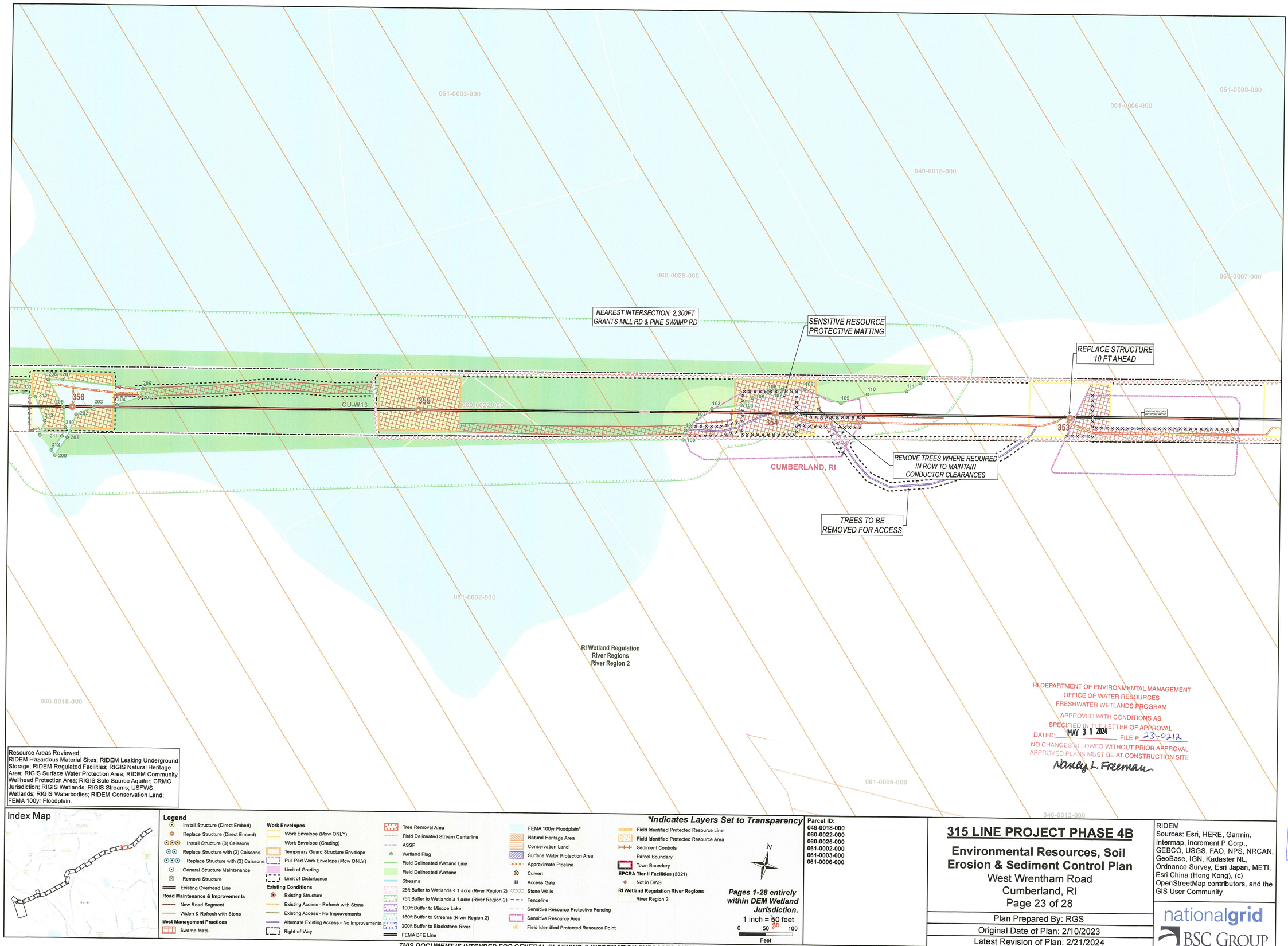

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 31 2024 FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

RI Environmental Management
APR 22 2024
Office of Water Resources

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
Cumberland, RI
Page 23 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
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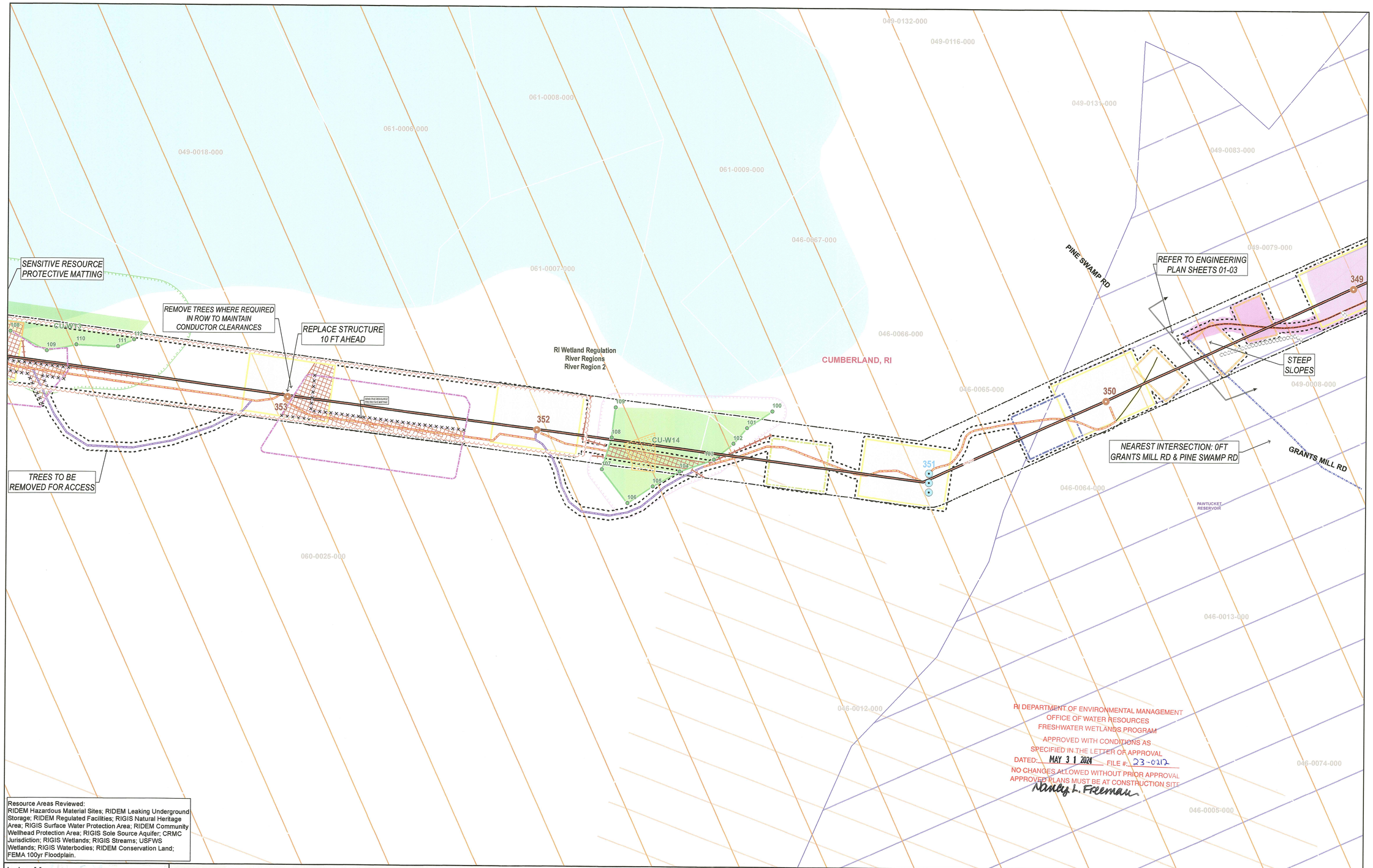

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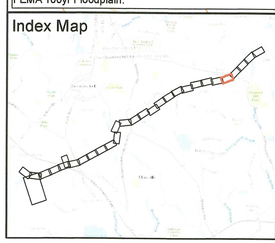

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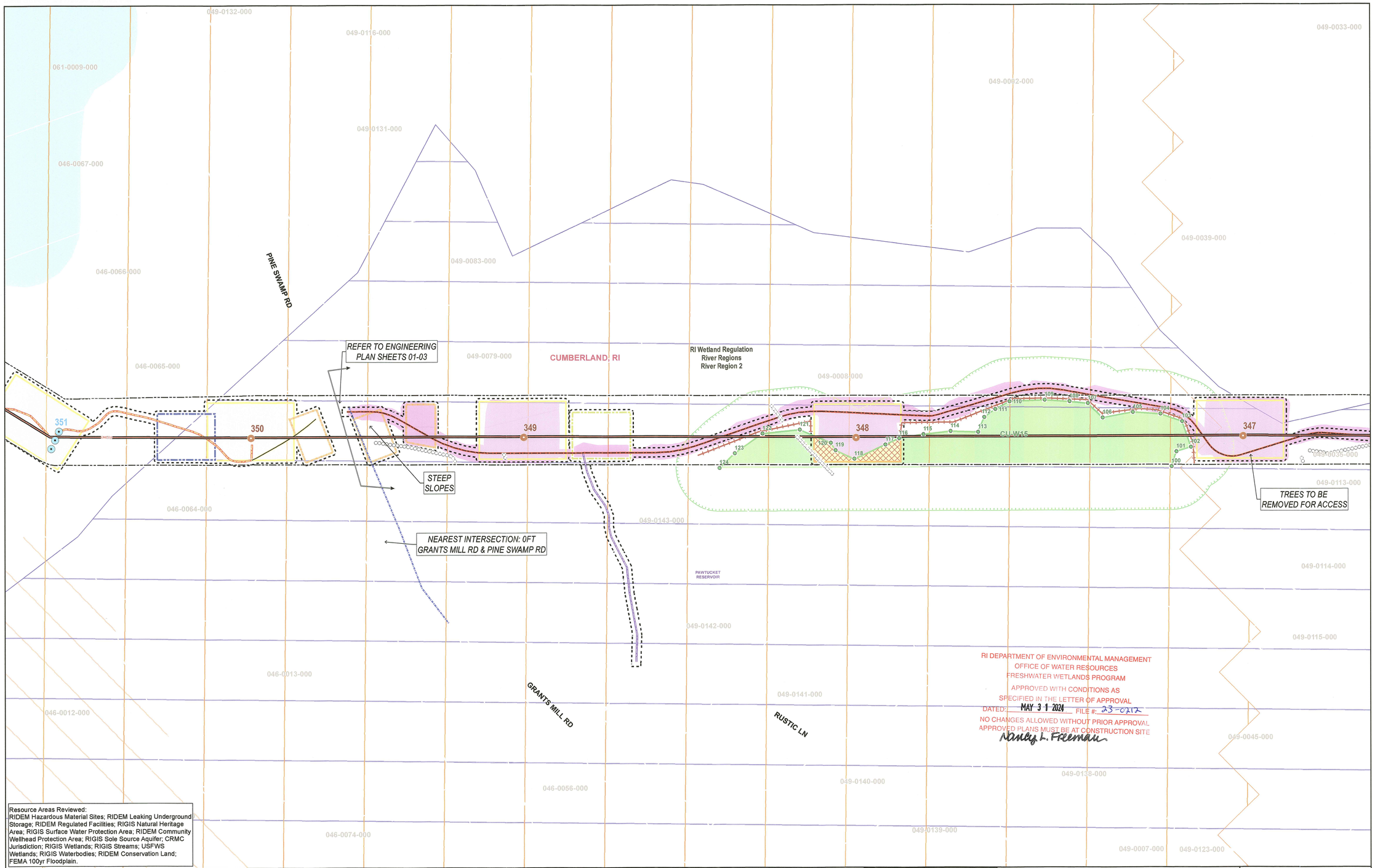

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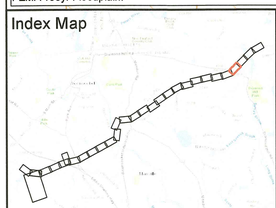

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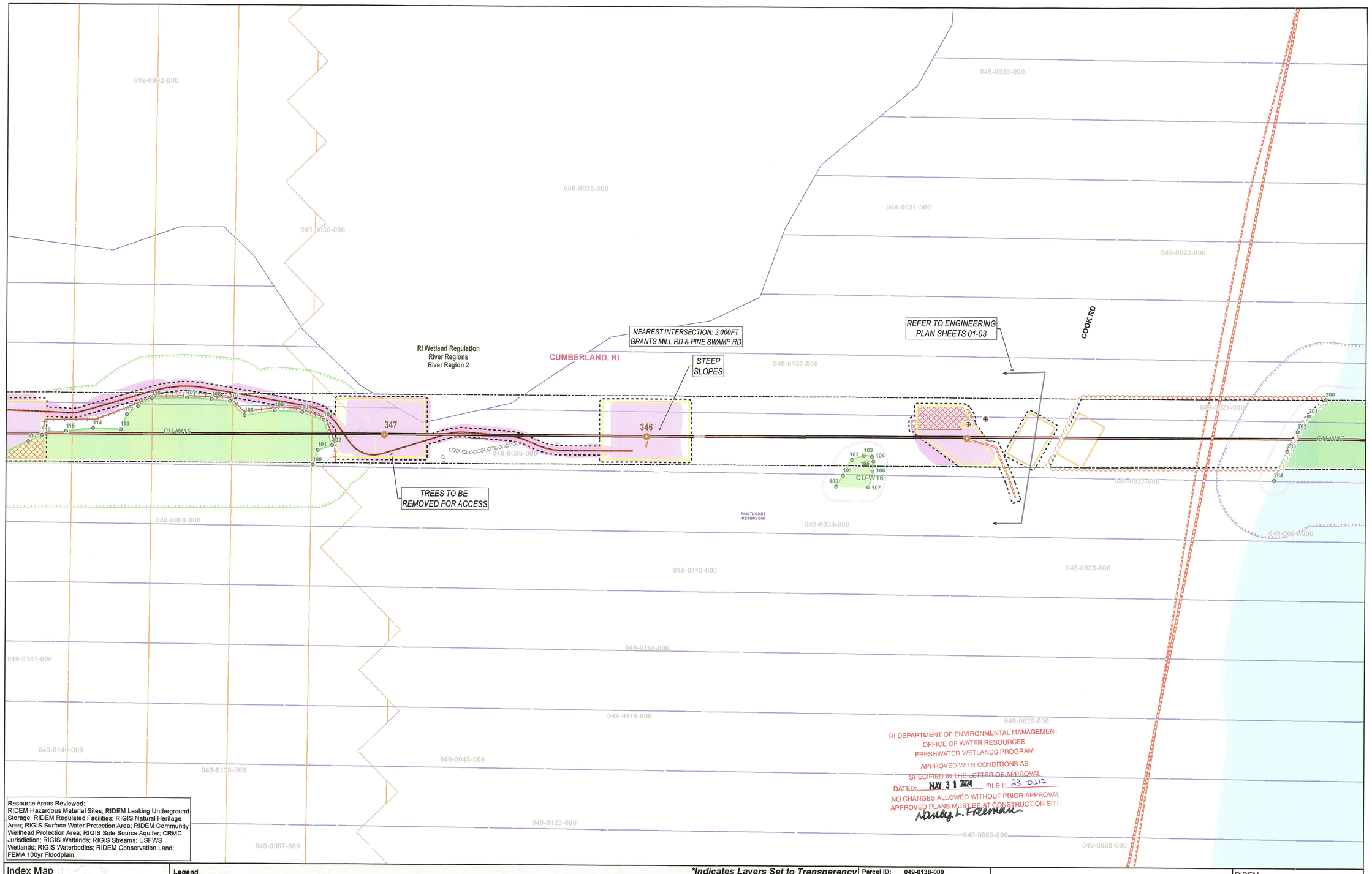

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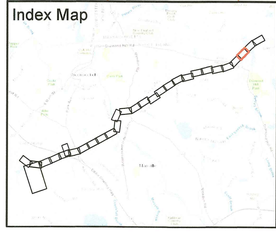

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Cook Road
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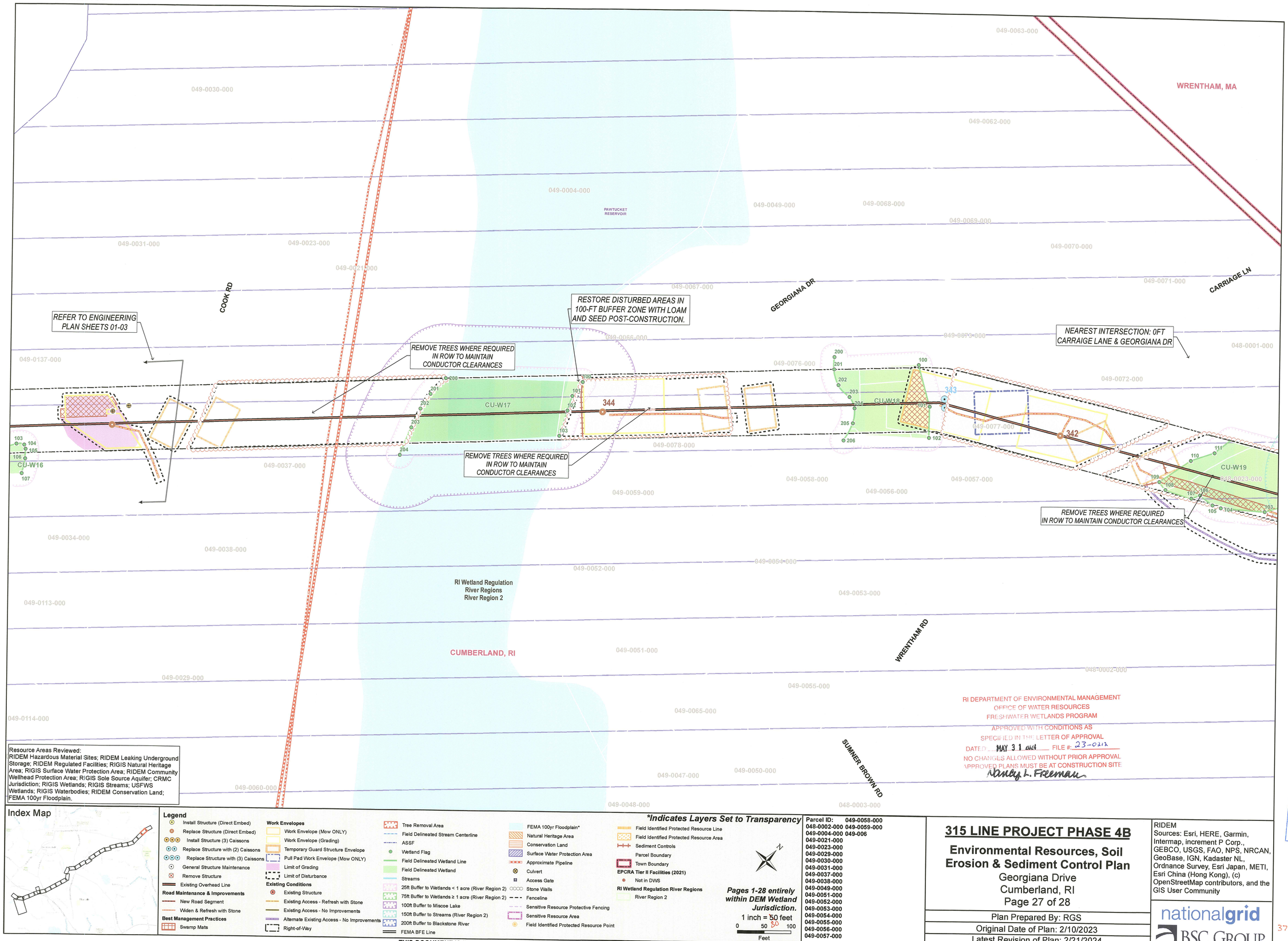

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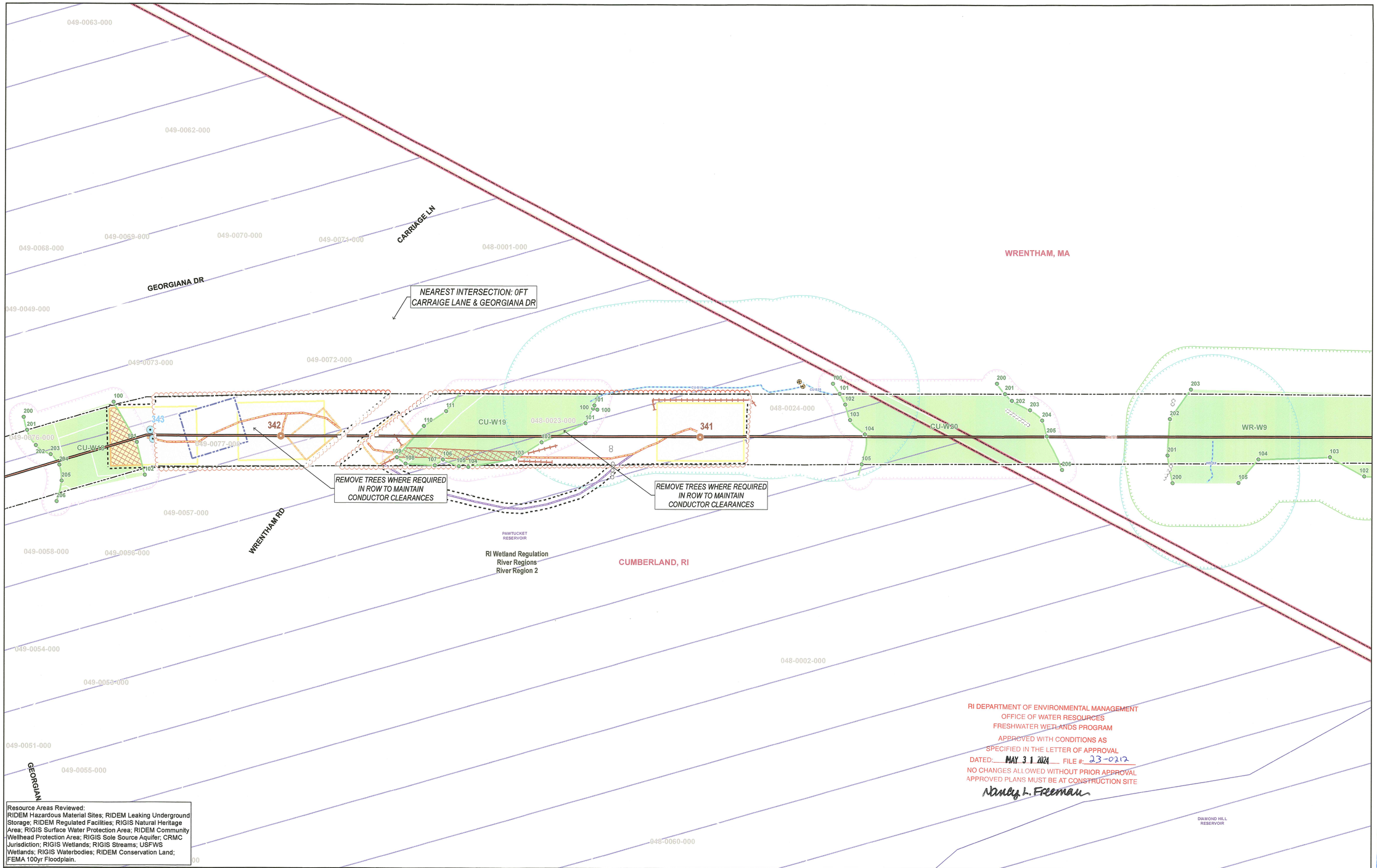

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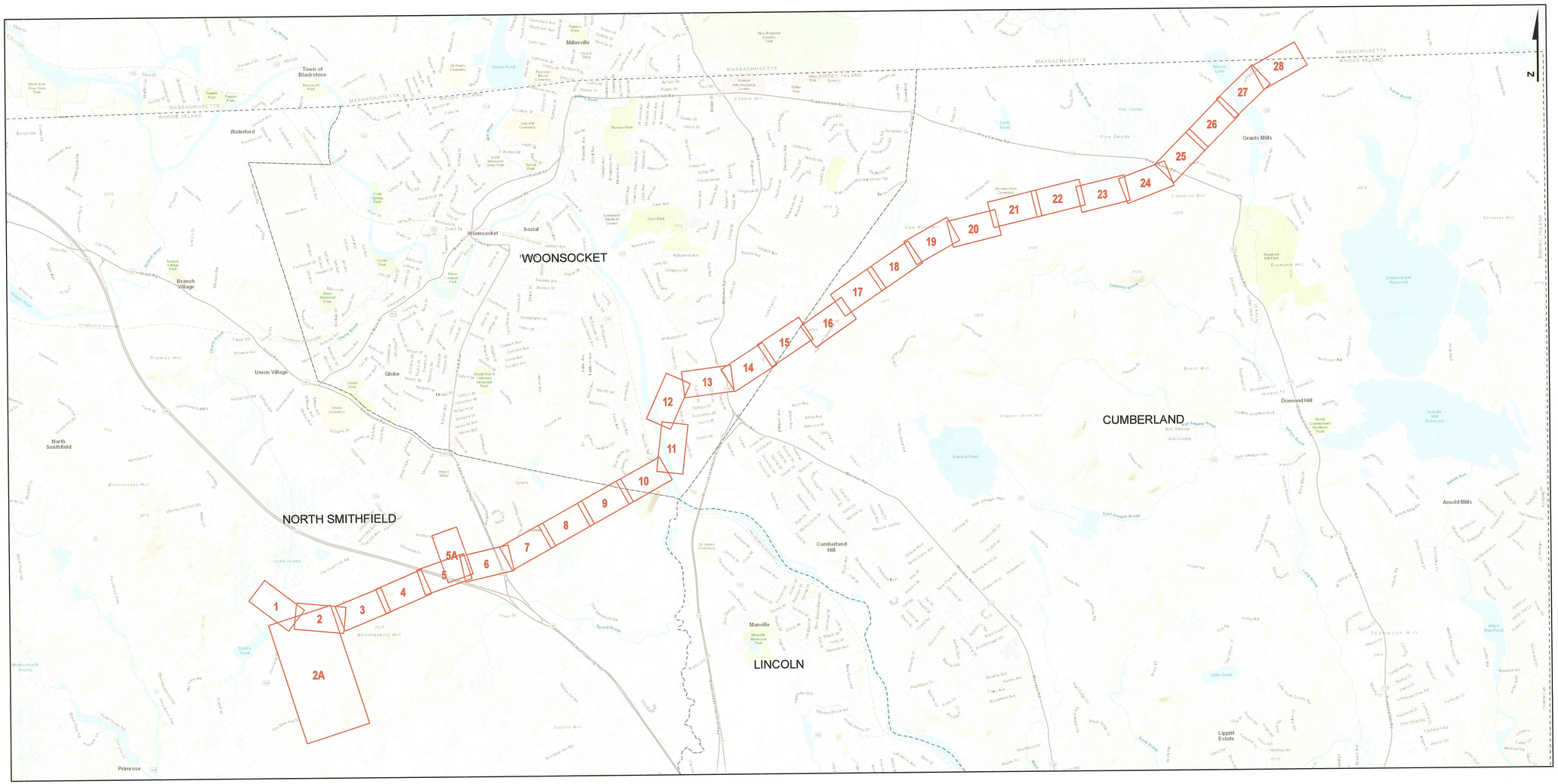


PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, MA 02451

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

ISSUED FOR PERMITTING
NOT CONSTRUCTION

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: MAR 12 2024 FILE #: 23-0212-

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

PREPARED BY:

BSC GROUP
1 Mercantile Street
Suite 610
Worcester, MA 01608

RI Environmental Management
FEB 26 2024
Office of Water Resources

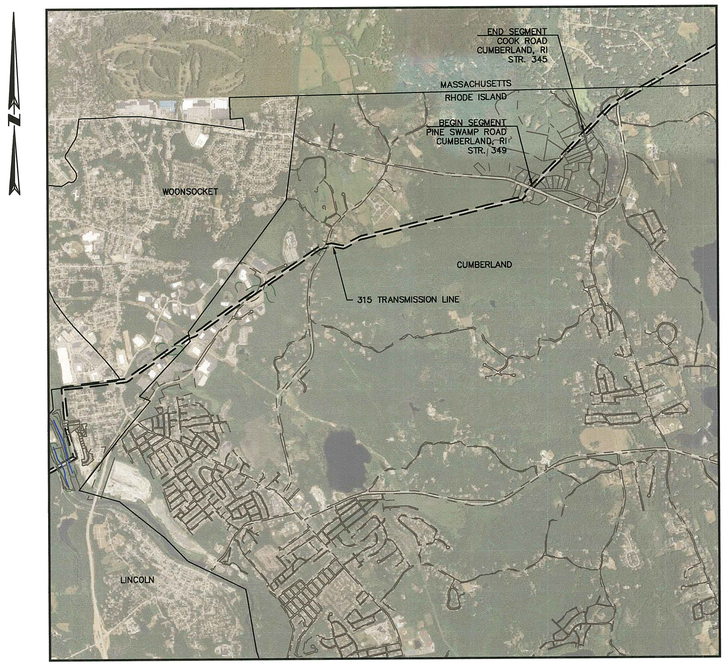
315 LINE PROJECT

PHASE 4B

CUMBERLAND, RHODE ISLAND

NOVEMBER 06, 2023

LATEST REVISION: FEBRUARY 22, 2024



SITE MAP

1,250 0 2,500 5,000 7,500 FT

SCALE: 1" = 2,500'

1

INDEX OF DRAWINGS

COV-01	COVER SHEET
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DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED
PROFESSIONAL ENGINEER
2/22/24

RI Environmental Management
FEB 26 2024
Office of Water Resources

PREPARED FOR:

RHODE ISLAND ENERGY
280 MELROSE STREET
PROVIDENCE, RI 02907

PREPARED BY:

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

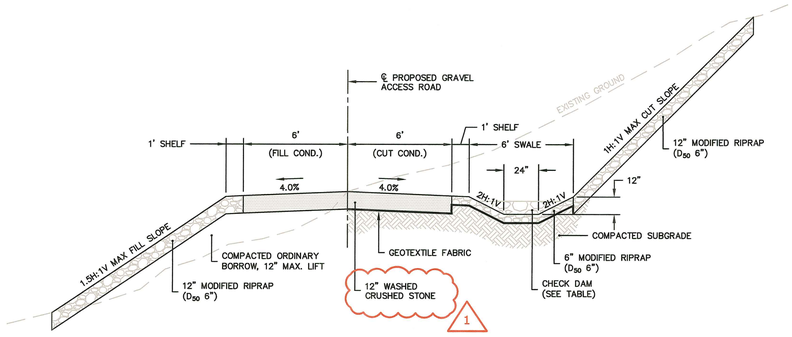
JOB NO: 89840.45 DWG NO:

LEGEND

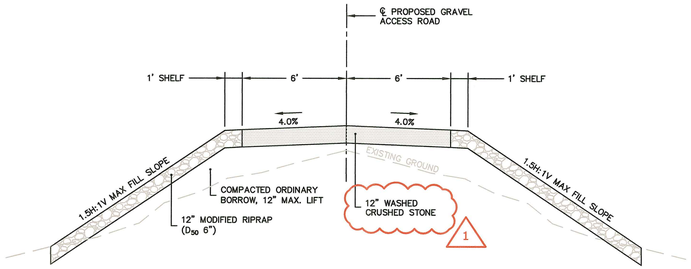
- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING STONEWALL
- EXISTING TOPOGRAPHY: MINOR INTERVAL
- EXISTING TOPOGRAPHY: MAJOR INTERVAL
- PROPOSED TOPOGRAPHY: MINOR INTERVAL
- PROPOSED TOPOGRAPHY: MAJOR INTERVAL
- EXISTING 315 TRANSMISSION CONDUCTOR
- WETLAND EDGE
- STREAM CENTERLINE
- PROPOSED TRANSMISSION LINE STRUCTURE LOCATION
- EXISTING TRANSMISSION LINE STRUCTURE LOCATION
- MATTED WORK AREAS
- PROPOSED STRUCTURE WORK PAD
- PROPOSED GUARD STRUCTURE ENVELOPE

ABBREVIATIONS

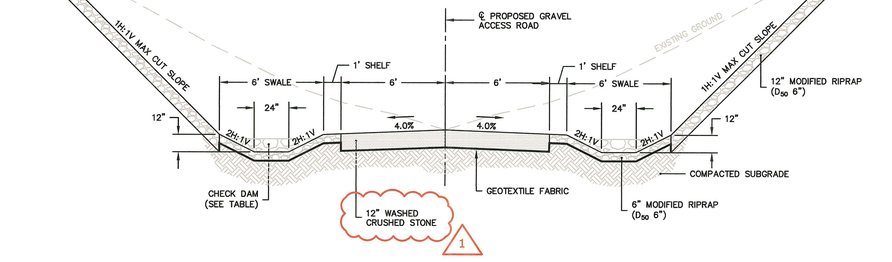
ROW	– RIGHT-OF-WAY
STR.	– STRUCTURE
EX.	– EXISTING
℄	– CENTERLINE
EG	– EXISTING GRADE
FG	– FINISHED GRADE
HORIZ.	– HORIZONTAL
VERT.	– VERTICAL
PC	– POINT OF INTERSECTION
PC	– POINT OF CURVATURE
PT	– POINT OF TANGENCY
PVI	– POINT OF VERTICAL INTERSECTION
PVC	– POINT OF VERTICAL CURVATURE
PVT	– POINT OF VERTICAL TANGENCY



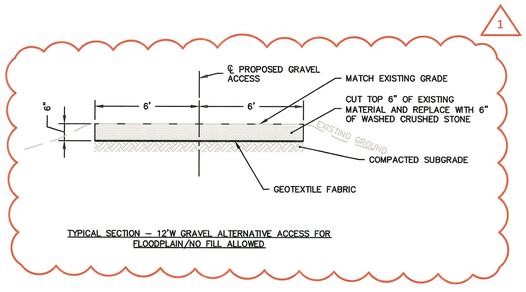
12'W GRAVEL ACCESS IN CUT/FILL CONDITION



12'W GRAVEL ACCESS IN FILL CONDITION



12'W GRAVEL ACCESS IN CUT CONDITION



TYPICAL SECTION – 12'W GRAVEL ALTERNATIVE ACCESS FOR FLOODPLAIN/NO FILL ALLOWED

ROADWAY SLOPE	CHECK DAM SPACING (FT)	WATER BAR SPACING (FT)
< 2.0%	100	250
2.0% – 5.0%	40	130
5.0% – 10.0%	20	80
10.0% – 15.0%	13	50
> 15.0%	10	40

NOTES:

1. EXISTING CONDITIONS SHOWN HAVE BEEN PREPARED FROM AVAILABLE GIS DATA AND FROM EXISTING TOPOGRAPHY PROVIDED BY THE OWNER, PREPARED BY NH GROUP, USING LIDAR SURVEY. BSC HAS NOT FIELD VERIFIED THE EXISTING CONDITIONS INFORMATION PROVIDED AND SHOWN AND PROVIDES NO WARRANTY TO ITS ACCURACY. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES DISCOVERED.
2. CONTRACTOR TO PROTECT BOUNDARY MONUMENTS. IF NOT FEASIBLE OR A CONFLICT WITH DESIGN, CONTRACTOR TO NOTIFY RI ENERGY PRIOR TO DISTURBING PROPERTY MONUMENT..
3. CONTRACTOR'S RESPONSIBILITY TO ENSURE STRUCTURAL INTEGRITY OF EXISTING STRUCTURE THROUGHOUT CONSTRUCTION OF SURROUNDING WORK PADS.
4. APPROXIMATE LIMITS OF RIGHT-OF-WAY WERE PROVIDED BY RHODE ISLAND ENERGY PROJECT TEAM.
5. WORK AREAS SHOWN TO BE CONSTRUCTED USING A COMBINATION OF TEMPORARY CONSTRUCTION MATTING AND GRADING ARE CONSIDERED HYBRID PADS. CONTRACTOR SHALL DETERMINE THE APPROPRIATE EXTENT OF CONSTRUCTION MATTING TO ADEQUATELY PROTECT WETLAND RESOURCE AREAS. HYBRID WORK PADS SHALL REQUIRE RESTORATION OF GRADED AREAS ADJACENT TO WETLAND RESOURCE AREAS TO ENSURE PROTECTION OF RESOURCE AREAS FOLLOWING CONSTRUCTION.
6. PROPOSED GRADING ASSUMES 1:1 (H:V) CUT SLOPE AND 1.5:1 (H:V) FILL SLOPE UNLESS NOTED OTHERWISE. SEVERAL DESIGNED AREAS HEREIN HAVE BEEN DESIGNED WITH 1:1 FILL SLOPES TO REDUCE EXTENT OF DISTURBANCE/WORK.WHERE BEDROCK IS ENCOUNTERED, A VERTICAL ROCK FACE MAY BE LEFT IN LIEU OF CREATING A 1:1 (H:V) CUT SLOPE. CONTRACTOR SHALL ENSURE THAT THE ROCK IS COMPETENT AND TAKE NECESSARY MEASURES TO CREATE A SAFE WORK ZONE INCLUDING, BUT NOT LIMITED TO, REMOVAL OF DEBRIS AND LOOSE ROCK FORM THE SIDES OR TOP OF THE VERTICAL ROCK FACE OR FENCING TO PROHIBIT ENTRY INTO UNSAFE AREAS ADJACENT TO THE ROCK FACE
7. THE EXTENTS OF TEMPORARY CONSTRUCTION MATTING SHOWN ON THE PLANS ARE THE MINIMUM REQUIRED FOR PROTECTION OF RESOURCE AREAS AND/OR PRIVATE PROPERTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST MATTING AS NECESSARY TO MEET FIELD CONDITIONS. NOTIFY RI ENERGY OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLANS PRIOR TO INITIATION OF THE WORK.
8. RESOURCE AREAS ARE SHOWN FOR PLAN PURPOSES ONLY. NOT INTENDED FOR PERMITTING.
9. THE EXTENTS OF TEMPORARY CONSTRUCTION MATTING SHOWN MEETING EDGE OF PAVEMENT SHALL BE OFFSET AT A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT.
10. UNLESS OTHERWISE DIRECTED BY RI ENERGY, "STRUCTURE REMOVAL ONLY" WORK PADS AND PULL PADS ARE CONSIDERED TEMPORARY. IN UPLAND AREAS, THE CONTRACTOR SHALL REMOVE CONSTRUCTION MATTING AND/OR GRAVEL AND RESTORE THE AREA WITH 6 INCHES OF LOAM AND SEED. WHERE ACCESS IS DESIGNED THROUGH A TEMPORARY WORK PAD OR PULL PAD, THE ACCESS IS TO REMAIN. WHERE TEMPORARY WORK PADS AND PULL PADS ARE SHOWN AS GRAVEL, THE CONTRACTOR MAY ELECT TO USE CONSTRUCTION MATTING INSTEAD, EXCEPT PORTION TO REMAIN AS A PERMANENT ACCESS.

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No. 12552
REGISTERED PROFESSIONAL ENGINEER
2/27/24
DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND, RHODE ISLAND

TYPICAL SECTIONS, NOTES, & LEGEND

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS

PREPARED FOR:

RHODE ISLAND ENERGY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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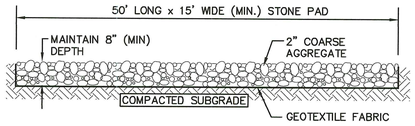
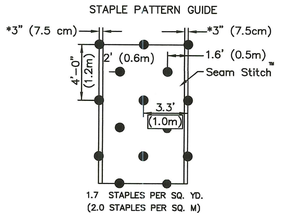
SCALE: 1" = 4'
0 2 4 8 FEET

RI Department of Environmental Management
FEB 2 6 2024
Office of Water Resources

FILE: 8984045 – TYP.DWG
DWG. NO: TYP-01
JOB. NO: 89840.45



TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NONE



BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN® DOT SYSTEM PLACE STAPLES/STAKES THROUGH EACH OF THE GREEN COLORED DOTS.

NOTES:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (150M) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

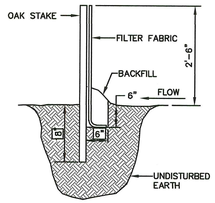
CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

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

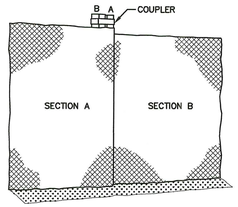
** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENTHS IN EXCESS OF 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

*LOCATION OF SEAM STITCH WILL VARY DEPENDING ON NORTH AMERICAN GREEN PRODUCT TYPE: –APPROX. 5" SEAM OVERLAP FOR BIONET EROSION CONTROL BLANKETS

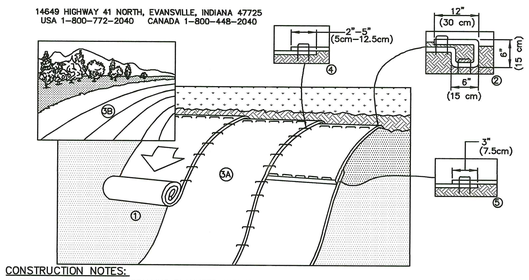
SLOPE STABILIZATION INSTALLATION
SCALE: NONE







SILT FENCE
SCALE: NONE



CONSTRUCTION NOTES:

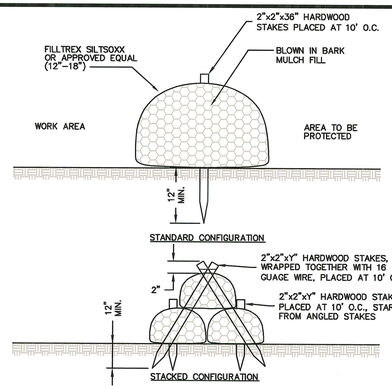
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. HYDROSEED SIDE SLOPES BEFORE INSTALLATION OF BLANKETS.

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.

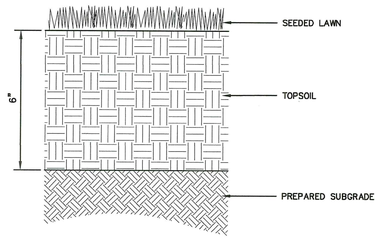
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

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.



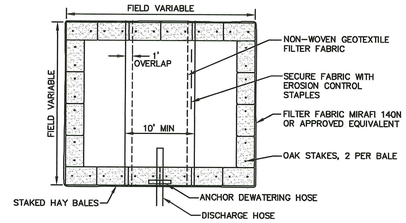
SILTSOXX
SCALE: NONE

NOTES:
1. PRODUCT TO BE FILTREXX SILT SOXX OR ACCEPTED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. MESH CONTAINMENT MATERIAL SHALL BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" AND 3/8". IN VERMONT, SILTSOXX SHALL BE BIODEGRADABLE.
5. COMPOST MEDIA SHALL HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

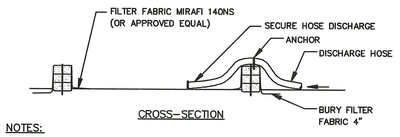


NOTES:
1. CONTRACTOR SHALL PREPARE SOILS IN ALL DISTURBED AREAS AND AREAS USED FOR EQUIPMENT ACCESS.
2. SEED MIX PER SECTION 10, NATIONAL GRID ENVIRONMENTAL GUIDANCE DOCUMENT. SEE SHEET DET-02.

LOAM AND SEED
SCALE: NONE



PLAN VIEW



CROSS-SECTION

NOTES:

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.

2. THE BASIN TO BE SIZED ACCORDING TO: CUBIC FEET OF STORAGE = PUMP DISCHARGE RATE(gpm) x 16

3. SIZE SHOWN ON PLANS SHALL BE ADJUSTED AS REQUIRED FOR THE ACTUAL PUMPING RATE.

DEWATERING HAYBALE BASIN (TYPE 1)
SCALE: NONE

TEMPORARY STOCKPILES:

1. ALL TEMPORARY MATERIAL STOCKPILE LOCATIONS SHALL BE LOCATED ON A GRAVEL WORK PAD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO STOCKPILES SHALL BE LOCATED WITHIN 50-FEET OF A WETLAND OR WATERCOURSE.
2. THE DOWN-GRADIENT SIDE OF ALL STOCKPILES SHALL BE PROTECTED WITH A LAYER OF SILTSOXX OR OTHER APPROVED SEDIMENT CONTROL BARRIER.
3. FOLLOWING 30 DAYS OF INACTIVITY, ALL STOCKPILES SHALL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE CRITERIA BELOW, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SPRING, SUMMER, OR EARLY FALL: SEED AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 20 LB/AC (0.5 LB/1,000 SF).

LATE FALL OR EARLY WINTER: SEED CERTIFIED 'AROOSTOOK' WINTER RYE (CEREAL RYE) AT 90 LB/AC (2.0 LB/1,000 SF).

UPLAND ROW RESTORATION MIX – GENERAL

Species Composition Options:
- Andropogon gerardii; Niagra Big Bluestem
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Elymus virginicus; Virginia Wildrye
- Lolium multiflorum; Annual Ryegrass
- Sorghastrum nutans; Indiangrass
- Chamaecrista fasciculate; Partridge Pea
- Desmodium canadense; Showy Tick Trefoil
- Helioposis helianthoides; Ox-Eye Sunflower
- Panicum virgatum; Switchgrass
- Rudbeckia hirta; Black Eyed Susan
- Poa palustris; Fowl Bluegrass
- Agrostis perennans; Upland Bentgrass
- Agrostis alba; Redtop
- Festuca rubra; Red Fescue
- Lotus corniculatus; Birds-Foot Trefoil
- Chrysanthemum leucanthem; Ox-Eye Daisy
- Aster novae-angliae; New England Aster

Example Seed Mixes:
1. Native Upland wildlife forage and Cover Meadow Mix – Ernst Conservation Seeds (ERNMX-123)
2. Eastern Ecotype Native Grass Mix– Ernst Conservation Seeds (ERNMX-177)
3. New England Native Warm Season Grass Mix – New England Wetland Plants, Inc.
4. New England Logging Road Mix – New England Wetland Plants, Inc.
5. Northeast Upland Wildflower/Restoration Erosion Mix – Southern Tier Consulting (STCMX-2)

UPLAND ROW RESTORATION MIX – DRY/ROCKY SITES

Species Composition Options:
- Festuca rubra; Red Fescue
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Bouteloua gracilis; Blue Grama
- Lolium multiflorum; Annual Ryegrass
- Lolium perenne; Perennial Ryegrass
- Agrostica scabra; Rough Bentgrass
- Agrostis perennans; Upland Bentgrass
- Sorghastrum nutans; Indiangrass

Example Seed Mixes:
1. New England Erosion Control/ Restoration Mix for Dry Sites – New England Wetland Plants, Inc.
2. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

WETLAND ROW RESTORATION MIX

Species Composition Options:
- Agrostis stolonifera; Creeping Bentgrass
- Poa trivialis; Rough Bluegrass
- Alopecurus arundinaceus; Creeping Meadow Foxtail
- Lolium multiflorum; Annual Ryegrass
- Festuca rubra; Creeping Red Fescue
- Elymus virginicus; Virginia Wildrye
- Schizachyrium scoparium; Little Bluestem
- Andropogon gerardi; Niagra Big Bluestem
- Carex vulpinoidea; Fox sedge
- Panicum virgatum; Switchgrass
- Agrostis scabra; Rough Bentgrass
- Aster novae-angliae; New England Aster
- Eupatorium perfoliatum; Boneset
- Euthamia graminifolia; Grass Leaved Goldenrod
- Scirpus atrovirens; Green Bulrush
- Verbene hastate; Blue Vervain
- Juncus effusus; Soft Rush
- Scirpus cyperinus; Wool Grass
- Panicum clandestinum; Deertongue

Example Seed Mixes
1. New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites – New England Wetland Plants, Inc.
2. Northeast Wetland Grass Seed Mix – Southern Tier Consulting (STCMX-7)
3. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

GERNERAL NOTES:
1. Seed mixes described herein are intended to cover a variety of typical new england landscapes. However, site specific seed mixes will need to be evaluated in coastal or mountainous regions.
2. Seed mixes described herein are intended for general ROW restoration. Site specific wetland seed mixes may be required by local, state and/or federal regulators for certain impacts to wetlands.
3. All seed mixes are to be approved by National Grid Environmental Scientist prior to construction and must conform with all project permits.
4. Seedbed preparation and maintenance as well as temporary erosion and sediment controls are crucial to the establishment of newly seeded areas. Coordinate with National Grid Environmental Scientist on seed bed preparation and maintenance as well as temporary erosion and sediment controls prior to construction.

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Nancy L. Freeman

NOTE:
ADDITIONAL BMP MEASURES MAY BE INSTALLED AS REQUIRED IN ACCORDANCE WITH THE LATEST VERSION OF SPECIFICATION EG-303NE.

ISSUED FOR PERMITTING

1

DAVID PERRY BIANCAVILLA No. 12552 REGISTERED PROFESSIONAL ENGINEER
2/22/24
DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND, RHODE ISLAND

DETAILS

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS

PREPARED FOR:

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PROVIDENCE, RI 02907

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617 896 4300

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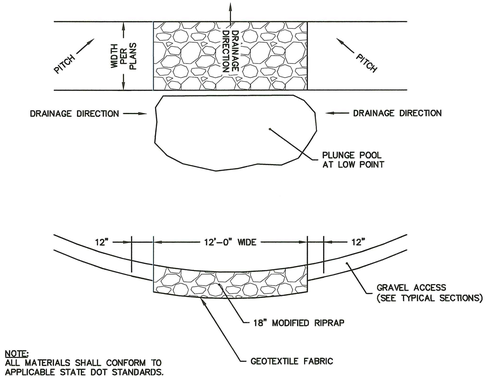
SCALE: AS SHOWN

RI Environmental Management FEB 26 2024 Office of Water Resources

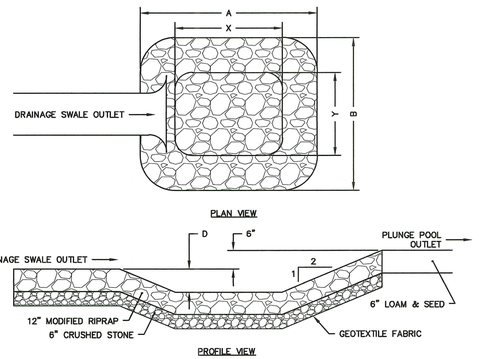
FILE: 8984045 – TYP.DWG
DWG. NO:
JOB. NO: 89840.45

DET-01



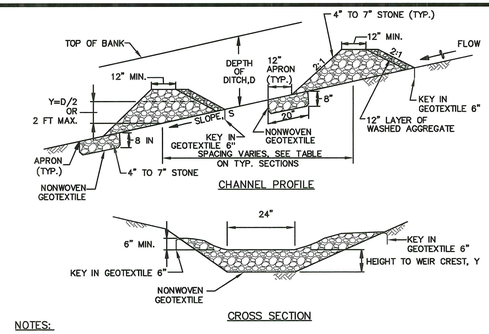
NOTE:
ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

STONE FILTER
SCALE: NONE



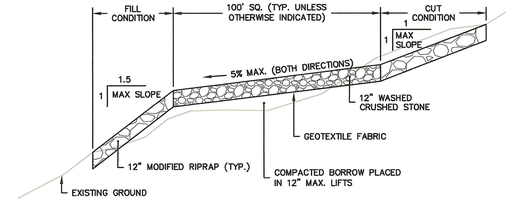
NOTES:
1. ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.
2. DIMENSIONS OF PLUNGE POOL TO BE DETERMINED BASED ON ANTICIPATED FLOW, DRAINAGE AREA, AND SITE CONDITIONS.
   2.1. DIMENSIONS A AND B SHALL NOT BE LESS THAN 6'-0"
   2.2. DIMENSION X SHALL NOT BE LESS THAN 2'-0"
   2.3. DIMENSION Y SHALL NOT BE LESS THAN 1'-6"
   2.4. DEPTH D SHALL NOT BE LESS THAN 1'-0".

PLUNGE POOL
SCALE: NONE



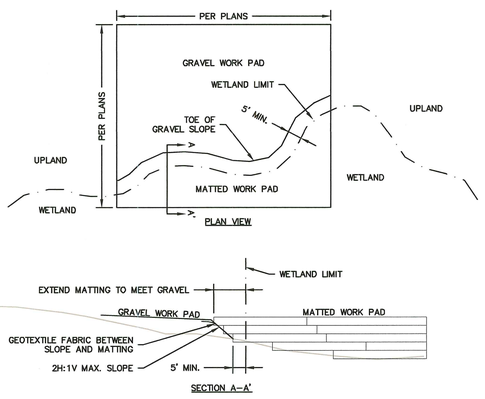
NOTES:
1. PREPARE SWALES IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS OR AS SPECIFIED ON PLAN.
2. PLACE NONWOVEN GEOTEXTILE UNDER THE BOTTOM AND SIDES OF THE DAM PRIOR TO PLACEMENT OF STONE. CONSTRUCT THE CHECK DAM WITH WASHED 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) WITH SIDE SLOPES OF 2:1 OR FLATTER AND A MINIMUM TOP WIDTH OF 12 INCHES. PLACE THE STONE SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL AND CHANNEL BANKS. FORM THE WEIR SO THAT TOP OF THE OUTLET CREST IS APPROXIMATELY 6 INCHES LOWER THAN THE OUTER EDGES. LINE THE UPSTREAM FACE OF THE DAM WITH A 1 FOOT THICK LAYER OF WASHED AGGREGATE (¾ TO 1½ INCH).
3. SET THE HEIGHT FOR THE WEIR CREST EQUAL TO ONE-HALF THE DEPTH OF THE CHANNEL OR DITCH. TO AVOID SCOUR THE MAXIMUM HEIGHT OF THE WEIR CREST MUST NOT EXCEED 2.0 FEET.
4. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF OF THE HEIGHT OF THE WEIR CREST. MAINTAIN LINE, GRADE, AND CROSS SECTION.

STONE CHECK DAM
SCALE: NONE

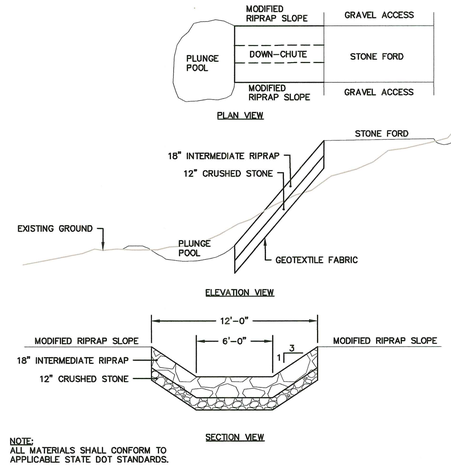


NOTE:
1. WORK PADS SHALL NOT BE CONSTRUCTED ON TOPSOIL.
2. ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

GRAVEL WORK PAD
SCALE: NONE

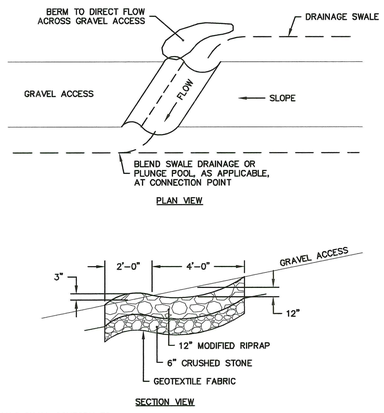


HYBRID WORK PAD
SCALE: NONE



NOTE:
ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

RIPRAP DOWN-CHUTE
SCALE: NONE



NOTE:
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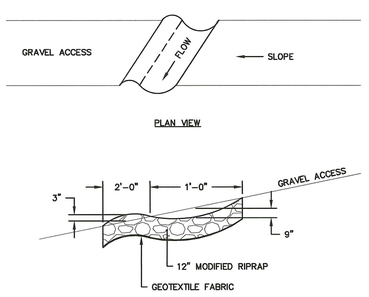
DRAINAGE CROSSING
SCALE: NONE



NOTE:
1. PROPOSED WATER BARS SHALL NOT DIRECT RUNOFF INTO ANY WETLAND, WATERBODY, OTHER ENVIRONMENTALLY SENSITIVE AREAS, PRIVATE PROPERTY, OR PUBLIC ROADWAYS.
2. ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

WATER BAR
SCALE: NONE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: MAR 12 2024 FILE #: 23-0212
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

ISSUED FOR PERMITTING

1

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER
2/22/24
DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND, RHODE ISLAND

DETAILS

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS

PREPARED FOR:

RHODE ISLAND ENERGY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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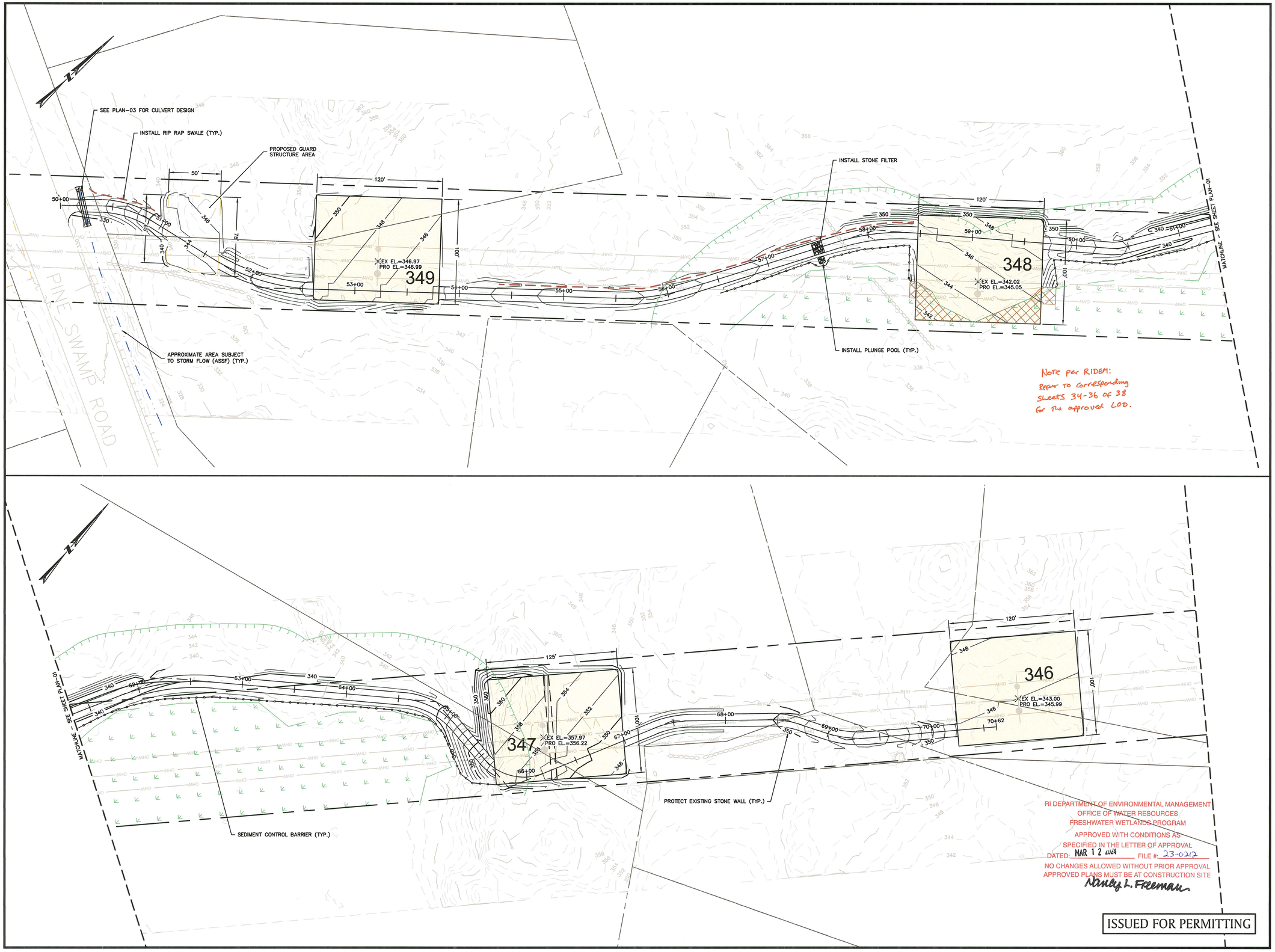
SCALE: AS SHOWN

RI Environmental Management
FEB 26 2024
Office of Water Resources

FILE: B9840 45 – TYP.DWG
DWG. NO:
JOB. NO: B9840.45

DET-02



LEGEND

- APPROXIMATE RIGHT-OF-WAY
- APPROXIMATE ABUTTER PROPERTY LINE
- EXISTING STONEWALL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 315 TRANSMISSION CONDUCTOR
- WETLANDS EDGE
- STREAM CENTERLINE
- 25' WETLAND BUFFER
- 75' WETLAND BUFFER
- DRAINAGE SWALE
- PROPOSED TRANSMISSION LINE STRUCTURE LOCATION
- EXISTING TRANSMISSION LINE STRUCTURE LOCATION
- MATTED WORK AREAS
- PROPOSED STRUCTURE WORK PAD
- PROPOSED GUARD STRUCTURE ENVELOPE

DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER
2/27/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND

RHODE ISLAND

ACCESS PLAN
STR. 349 - 346

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS

PREPARED FOR:

RHODE ISLAND ENERGY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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SCALE: 1" = 40'

0 20 40 80 FEET

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: MAR 12 2024 FILE #: 23-0212
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Donald L. Freeman

RI Environmental Management
FEB 26 2024
Office of Water Resources

ISSUED FOR PERMITTING

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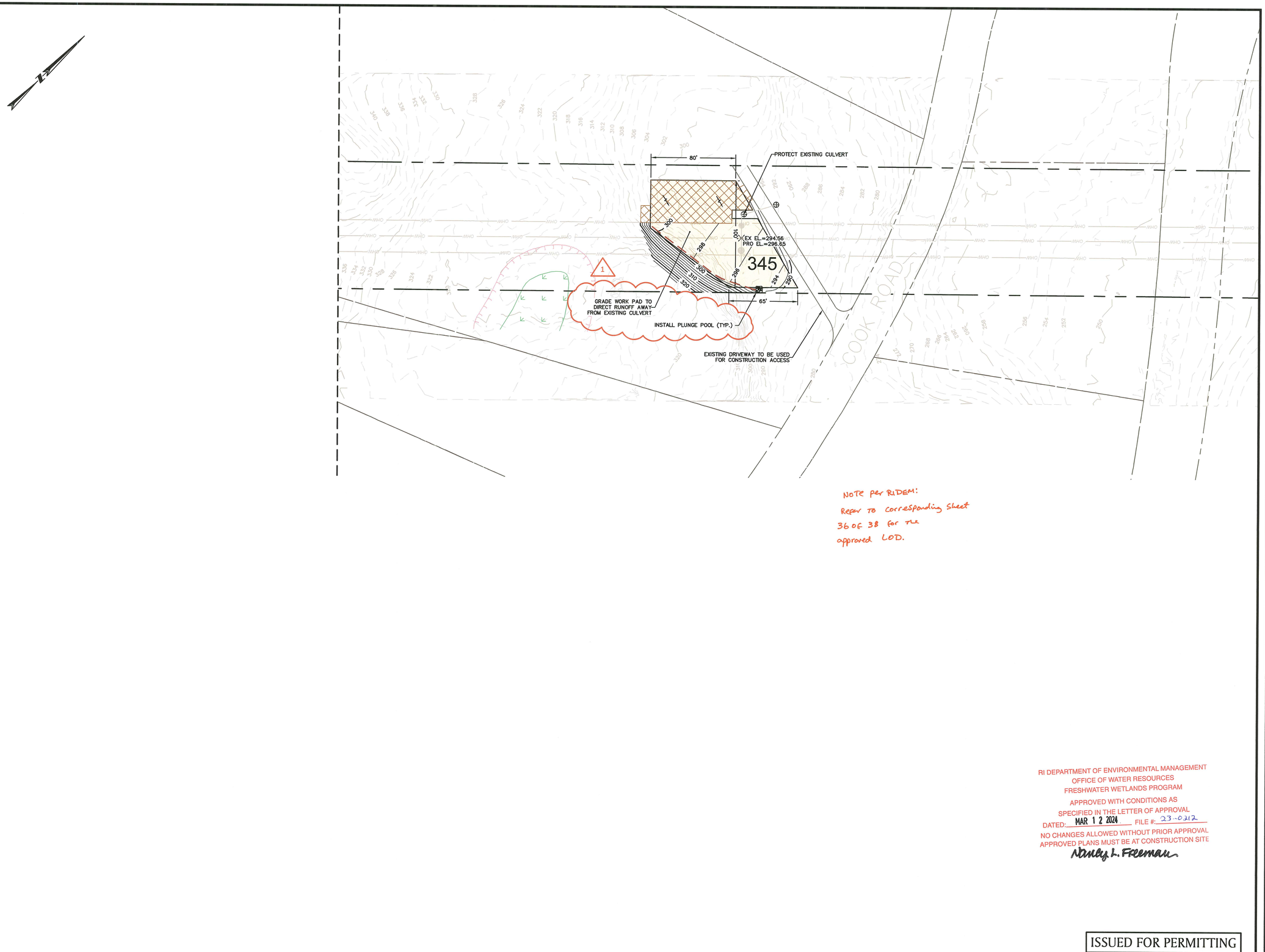
DWG. NO: PLAN-01
JOB. NO: 89840.45



LEGEND

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DAVID PERRY BIANCAVILLA
No. 12552
REGISTERED PROFESSIONAL ENGINEER
STATE OF RHODE ISLAND
2/22/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND

RHODE ISLAND

ACCESS PLAN
STR. 345

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS

PREPARED FOR:

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PROVIDENCE, RI 02907

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Boston, Massachusetts 02127
617 896 4300

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SCALE: 1" = 40'

0 20 40 80 FEET

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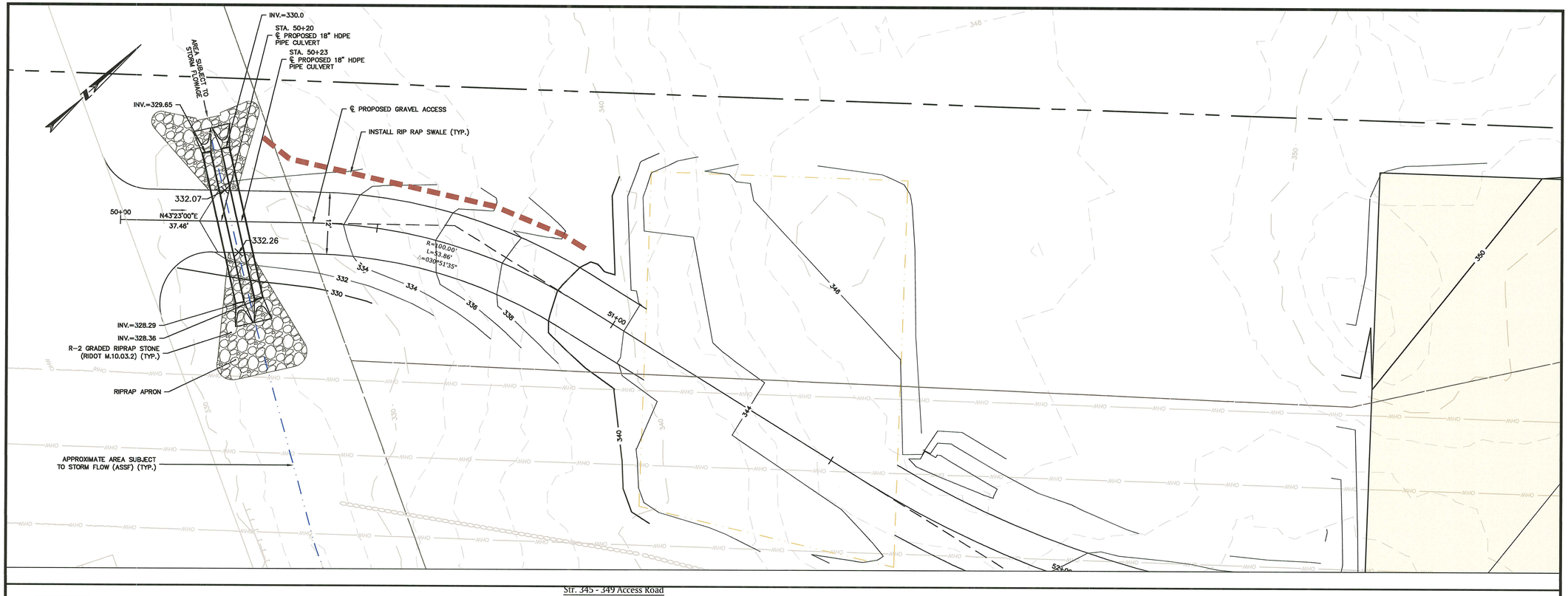
RI Environmental Management
FEB 26 2024
Office of Water Resources

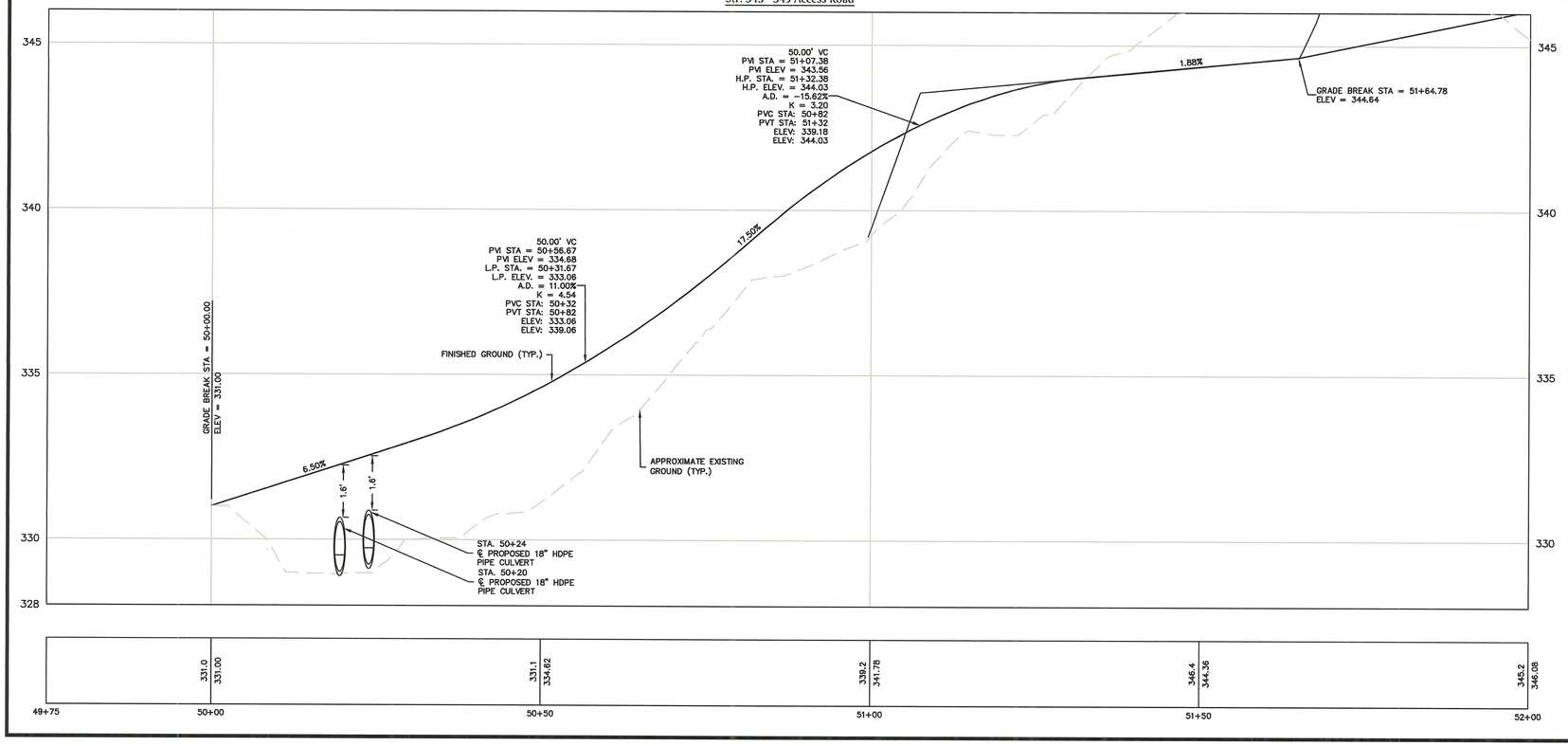
ISSUED FOR PERMITTING

FILE: 8984045 – SHEET FILES.DWG
DWG. NO:
JOB. NO: 89840.45

PLAN-02



Str. 345 - 349 Access Road



Note per RIDEM:
Refer to corresponding Sheet 34 of 38 for NE approved LOD.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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ISSUED FOR PERMITTING

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REGISTERED PROFESSIONAL ENGINEER
2/27/24

DAVID P. BIANCAVILLA, P.E. NO. 12552

315 LINE PROJECT PHASE 4B

IN

CUMBERLAND

RHODE ISLAND

CULVERT DESIGN PLAN & PROFILE

NOVEMBER 06, 2023

REVISIONS:

1	02/22/2024	REVISED PER RIDEM COMMENTS

PREPARED FOR:

RHODE ISLAND ENERGY
280 MELROSE STREET
PROVIDENCE, RI 02907

BSC GROUP
803 Summer Street
Boston, Massachusetts 02127
617 896 4300

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SCALE: 1" = 10'
0 5 10 20 FEET

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FEB 26 2024
Office of Water Resources

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DWG. NO:
JOB. NO: 89840.45

PLAN-03

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012-321
209 GREENVILLE RD

012-150
188 GREENVILLE RD

012-154
196 GREENVILLE RD

012-317
215 GREENVILLE RD

012-156
0 GREENVILLE RD

012-008
0 GREENVILLE RD

NEAREST INTERSECTION: 500FT
GREENVILLE RD & OLD GREENVILLE RD

012-259
0 GREENVILLE RD

SLENDER AGANLIS
PRESENT TO THE NORTH

012-158
0 GREENVILLE RD

012-305
0 GREENVILLE RD

NS-W4

012-312
0 GREENVILLE RD

REMOVE TREES WHERE REQUIRED
IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

RI Wetland Regulation
River Regions
River Region 2

NS-W1

NS-W2

NS-W3

NS-W5

NS-W6

012-311
0 GREENVILLE RD

012-300
0 GREENVILLE RD

012-303
0 GREENVILLE RD

012-297
0 GREENVILLE RD

GREENVILLE RD

012-143
220 GREENVILLE RD

012-009
241 GREENVILLE RD

Cherry
Brook

009-162
426 WOONSOCKET HILL RD

WEST
FARNUM S/S

012-298
231 GREENVILLE RD

012-342
230 GREENVILLE RD

012-304
0 GREENVILLE RD

NORTH
SMITHFIELD, RI

012-329
243 GREENVILLE RD

012-343
234 GREENVILLE RD

012-144
247 GREENVILLE RD

012-153
238 GREENVILLE RD

012-151
258 GREENVILLE RD

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

Index Map

Legend

- Install Structure (Direct Embed)
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- Install Structure (3) Caissons
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- Replace Structure with (3) Caissons
- General Structure Maintenance
- Remove Structure
- Existing Overhead Line

Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

- Work Envelope (Mow ONLY)
- Work Envelope (Grading)
- Temporary Guard Structure Envelope
- Pull Pad Work Envelope (Mow ONLY)
- Limit of Grading
- Limit of Disturbance

Existing Conditions

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- 150ft Buffer to Streams (River Region 2)
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- FEMA BFE Line
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- Natural Heritage Area
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- Sensitive Resource Area
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- Field Identified Protected Resource Line
- Field Identified Protected Resource Area
- Sediment Controls
- Parcel Boundary
- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet
0 50 80 100
Feet

Parcel ID:
009-162
012-008
012-009
012-143
012-156
012-158
012-259
012-297
012-298
012-300
012-303
012-304
012-305
012-311
012-312
012-342

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 1 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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209 GREENVILLE RD

012-206
184 GREENVILLE RD

012-199
182 GREENVILLE RD

012-193
0 GREENVILLE RD

012-192

012-171
29 OLD GREENVILLE RD

012-292
27 JEFFERSON RD

012-291
25 JEFFERSON RD

012-317
215 GREENVILLE RD

012-150
188 GREENVILLE RD

012-259
0 GREENVILLE RD

GREENVILLE RD

012-154
196 GREENVILLE RD

012-156
0 GREENVILLE RD

012-313
0 NORTH SMITHFIELD EXPY

NS-W4

NEAREST INTERSECTION: 500FT
GREENVILLE RD & OLD GREENVILLE RD

012-156
0 GREENVILLE RD

NORTH
SMITHFIELD, RI

RI Wetland Regulation
River Regions
River Region 2

012-298
231 GREENVILLE RD

NEAREST INTERSECTION: 500FT
GREENVILLE RD & OLD GREENVILLE RD

012-312
0 GREENVILLE RD

NS-W7

NS-W8

NS-W9

NS-W5

012-303
0 GREENVILLE RD

NS-W6

012-005
241 GREENVILLE RD

012-311
0 GREENVILLE RD

012-143
220 GREENVILLE RD

012-342
230 GREENVILLE RD

SHEET 2
SHEET 2A

012-156-A
OFF GREENVILLE RD

016-006
1115 IRON MINE HILL RD

CROOKFALL BROOK

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet
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Feet

N

Parcel ID:
012-143
012-154
012-156
012-156-A
012-158
012-311
012-312
012-313
016-006

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 2 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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10 of 38

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NORTH SMITHFIELD, RI
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1145 IRON MINE HILL RD
016-120-A
0 IRON MINE HILL RD
IRON MINE HILL RD
016-039
1130 IRON MINE HILL RD
016-075
016-104
1180 IRON MINE HILL RD
016-030
1230 IRON MINE HILL RD
016-121
1265 IRON MINE HILL RD
WOONSOCKET RESERVOIR #3
016-042
1240 IRON MINE HILL RD
016-059
1200 IRON MINE HILL RD
016-004
1275 IRON MINE HILL RD
016-117
1262 IRON MINE HILL RD
016-116
1276 IRON MINE HILL RD
016-077
1285 IRON MINE HILL RD
016-115
1290 IRON MINE HILL RD
016-095
OFF IRON MINE HILL RD
016-050
1295 IRON MINE HILL RD
016-114
1320 IRON MINE HILL RD
016-003
1365 IRON MINE HILL RD
016-107
1315 IRON MINE HILL RD
016-113
1362 IRON MINE HILL RD
016-096
1366 IRON MINE HILL RD
016-136
0 GREENVILLE RD
155 POMONA ST
016-103
1375 IRON MINE HILL RD
016-002
1387 IRON MINE HILL RD
016-110
1380 IRON MINE HILL RD
016-109
1386 IRON MINE HILL RD
016-130
155 POMONA ST
012-143
220 GREENVILLE RD
012-151
258 GREENVILLE RD
012-342
230 GREENVILLE RD
012-343
234 GREENVILLE RD
012-331
288 GREENVILLE RD
012-153
238 GREENVILLE RD
012-163
268 GREENVILLE RD
012-298
231 GREENVILLE RD
012-329
243 GREENVILLE RD
GREENVILLE RD
012-142
278 GREENVILLE RD
012-144
247 GREENVILLE RD
012-009
241 GREENVILLE RD
012-332
281 GREENVILLE RD
012-333
291 GREENVILLE RD
012-334
299 GREENVILLE RD
Cherry Brook
SHEET 2
SHEET 2A
RI Wetland Regulation
River Regions
River Region 2
NEAREST INTERSECTION: 3,500FT
IRON MINE HILL RD & GREENVILLE RD
NS-W1
NS-W2
NS-W3
NS-W4
NS-W5
NS-W6
NS-W7
NS-W8
NS-W9
401
402
403
404
405

Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2024 FILE #: 23-0210
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Wendy D. Freeman

Index Map

Legend

Install Structure (Direct Embed)
Replace Structure (Direct Embed)
Install Structure (3) Caissons
Replace Structure with (2) Caissons
Replace Structure with (3) Caissons
General Structure Maintenance
Remove Structure
Existing Overhead Line

Road Maintenance & Improvements
New Road Segment
Widen & Refresh with Stone

Best Management Practices
Swamp Mats

Work Envelopes
Work Envelope (Mow ONLY)
Work Envelope (Grading)
Temporary Guard Structure Envelope
Pull Pad Work Envelope (Mow ONLY)
Limit of Grading
Limit of Disturbance

Existing Conditions
Existing Structure
Existing Access - Refresh with Stone
Existing Access - No Improvements
Alternate Existing Access - No Improvements
Right-of-Way

Tree Removal Area
Field Delineated Stream Centerline
ASSF
Wetland Flag
Field Delineated Wetland Line
Field Delineated Wetland
Streams
25ft Buffer to Wetlands < 1 acre (River Region 2)
75ft Buffer to Wetlands ≥ 1 acre (River Region 2)
100ft Buffer to Miscoe Lake
150ft Buffer to Streams (River Region 2)
200ft Buffer to Blackstone River
FEMA BFE Line

FEMA 100yr Floodplain*
Natural Heritage Area
Conservation Land
Surface Water Protection Area
Approximate Pipeline
Culvert
Access Gate
Stone Walls
Fenceline
Sensitive Resource Protective Fencing
Sensitive Resource Area
Field Identified Protected Resource Point

Field Identified Protected Resource Line
Field Identified Protected Resource Area
Sediment Controls
Parcel Boundary
Town Boundary

EPCRA Tier II Facilities (2021)
Not in DWS

RI Wetland Regulation River Regions
River Region 2

*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 100 feet
0 100 200
Feet

Parcel ID:	
012-009	016-003
012-142	016-004
012-143	016-005
012-144	016-006
012-151	016-0
012-153	
012-156	
012-156-A	
012-158	
012-163	
012-311	
012-312	
012-329	
012-331	
012-342	
012-343	
015-074	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 2A of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
FEB 26 2024
Office of Water Resources

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012-140
0 OLD GREENVILLE RD

012-171
29 OLD GREENVILLE RD

012-292
27 JEFFERSON RD

012-291
25 JEFFERSON RD

012-156
0 GREENVILLE RD

012-299
0 OLD GREENVILLE RD

012-136
0 OLD GREENVILLE RD

012-313
0 NORTH SMITHFIELD EXPY

RI Wetland Regulation
River Regions
River Region 2

NEAREST INTERSECTION: 4,000FT
GREENVILLE RD & OLD GREENVILLE RD

BUILD ROAD OR MAT
TO SPLICE LOCATION

NORTH
SMITHFIELD, RI

404 405 406 407 408

8 9 10 11 12 13

NS-W8 NS-W9 NS-W10 NS-W11

012-312
0 GREENVILLE RD

012-306
0 NORTH SMITHFIELD EXPY

012-310
0 NORTH SMITHFIELD EXPY

012-156-A
OFF GREENVILLE RD

016-006
1115 IRON MINE HILL RD

CROOKFALL BROOK

012-136-B
OFF NORTH SMITHFIELD EXPY

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2024 FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Stanley L. Freeman

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Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

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- Work Envelope (Grading)
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- Pull Pad Work Envelope (Mow ONLY)
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- ASSF
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- Field Delineated Wetland Line
- Field Delineated Wetland
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- Field Identified Protected Resource Line
- Field Identified Protected Resource Area
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- Parcel Boundary
- Town Boundary

EPCRA Tier II Facilities (2021)

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RI Wetland Regulation River Regions

- River Region 2

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0 50 80 100
Feet

Parcel ID:
012-136-B
012-156
012-171
012-291
012-292
012-299
012-306
012-310
012-312
012-313
016-006

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Greenville Road
North Smithfield, RI
Page 3 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
FEB 26 2024
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012-295
24 JEFFERSON RD

012-140
0 OLD GREENVILLE RD

012-376
21 DEERFIELD DR

012-375
23 DEERFIELD DR

012-374
25 DEERFIELD DR

012-299
0 OLD GREENVILLE RD

012-136
0 OLD GREENVILLE RD

012-152
0 NORTH SMITHFIELD EXPY

N SMITHFIELD EXPY

N SMITHFIELD EXPY

NEAREST INTERSECTION: 4,000FT
GREENFIELD RD & NORTH SMITHFIELD EXPY

NORTH
SMITHFIELD, RI

RI Wetland Regulation
River Regions
River Region 2

408

409

410

411

NS-W10

NS-W11

NS-W12

NS-W13

NS-W14

NS-W15

012-306
0 NORTH SMITHFIELD EXPY

012-310
0 NORTH SMITHFIELD EXPY

12

13

14

15

16

17

012-318
0 NORTH SMITHFIELD EXPY

016-006
1115 IRON MINE HILL RD

012-136-B
OFF NORTH SMITHFIELD EXPY

012-326
0 NORTH SMITHFIELD EXPY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2024, FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

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Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

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Existing Conditions

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- Existing Access - Refresh with Stone
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- Conservation Land
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- Culvert
- Access Gate
- Stone Walls
- Fenceline
- Sensitive Resource Protective Fencing
- Sensitive Resource Area
- Field Identified Protected Resource Point
- Field Identified Protected Resource Line
- Field Identified Protected Resource Area
- Sediment Controls
- Parcel Boundary
- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet
0 50 80 100
Feet

Parcel ID:
012-136
012-136-B
012-152
012-299
012-306
012-310
012-326

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

North Smithfield Expressway
North Smithfield, RI
Page 4 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Office of Water Resources

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Date Saved: 2/21/2024 2:29:42 PM

012-376
21 DEERFIELD DR

012-375
23 DEERFIELD DR

012-373
10 PHEASANT RUN RD

012-374
25 DEERFIELD DR

NORTH SMITHFIELD, RI

012-131
0 HANTON RD

012-324
0 HANTON RD

013-161
136 HANTON RD

013-006
15 SHADY LN

013-162
140 HANTON RD

N SMITHFIELD EXPY

N SMITHFIELD EXPY

012-152
0 NORTH SMITHFIELD EXPY

RI Wetland Regulation
River Regions
River Region 2

012-136
0 OLD GREENVILLE RD

NEAREST INTERSECTION: 3,000FT
GREENFIELD RD & NORTH SMITHFIELD EXPY

SHEET 5A

SHEET 5

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

013-157
OFF HANTON RD

013-009
367 EDDIE DOWLING HWY

013-153
OFF EDDIE DOWLING HWY

013-145
0 EDDIE DOWLING HWY

NS-W12

NS-W13

NS-W14

NS-W15

NS-W15A

NS-W16

NS-W17

175
176
262
263
264
178
179
410
411
412
413
16
17
18
19
20
21
22
8
9
10

BUILD ROAD OR MAT TO SPLICE LOCATION

012-310
0 NORTH SMITHFIELD EXPY

012-318
0 NORTH SMITHFIELD EXPY

013-144
OFF EDDIE DOWLING HWY

013-103
395 EDDIE DOWLING HWY

CROOKFALL BROOK

012-136-B
OFF NORTH SMITHFIELD EXPY

012-326
0 NORTH SMITHFIELD EXPY

013-104
415 EDDIE DOWLING HWY

012-132
OFF NORTH SMITHFIELD EXPY

013-010-A
OFF NORTH SMITHFIELD EXPY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2024 FILE #: 23-0113
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

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Best Management Practices

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Work Envelopes

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- Sediment Controls
- Parcel Boundary
- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

*Indicates Layers Set to Transparency

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet

0 50 100

Feet

N

Parcel ID:
012-131
012-136-B
012-152
012-310
012-318
012-324
012-326
012-374
013-103
013-104
013-144
013-157
013-162

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

North Smithfield Expressway
North Smithfield, RI
Page 5 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
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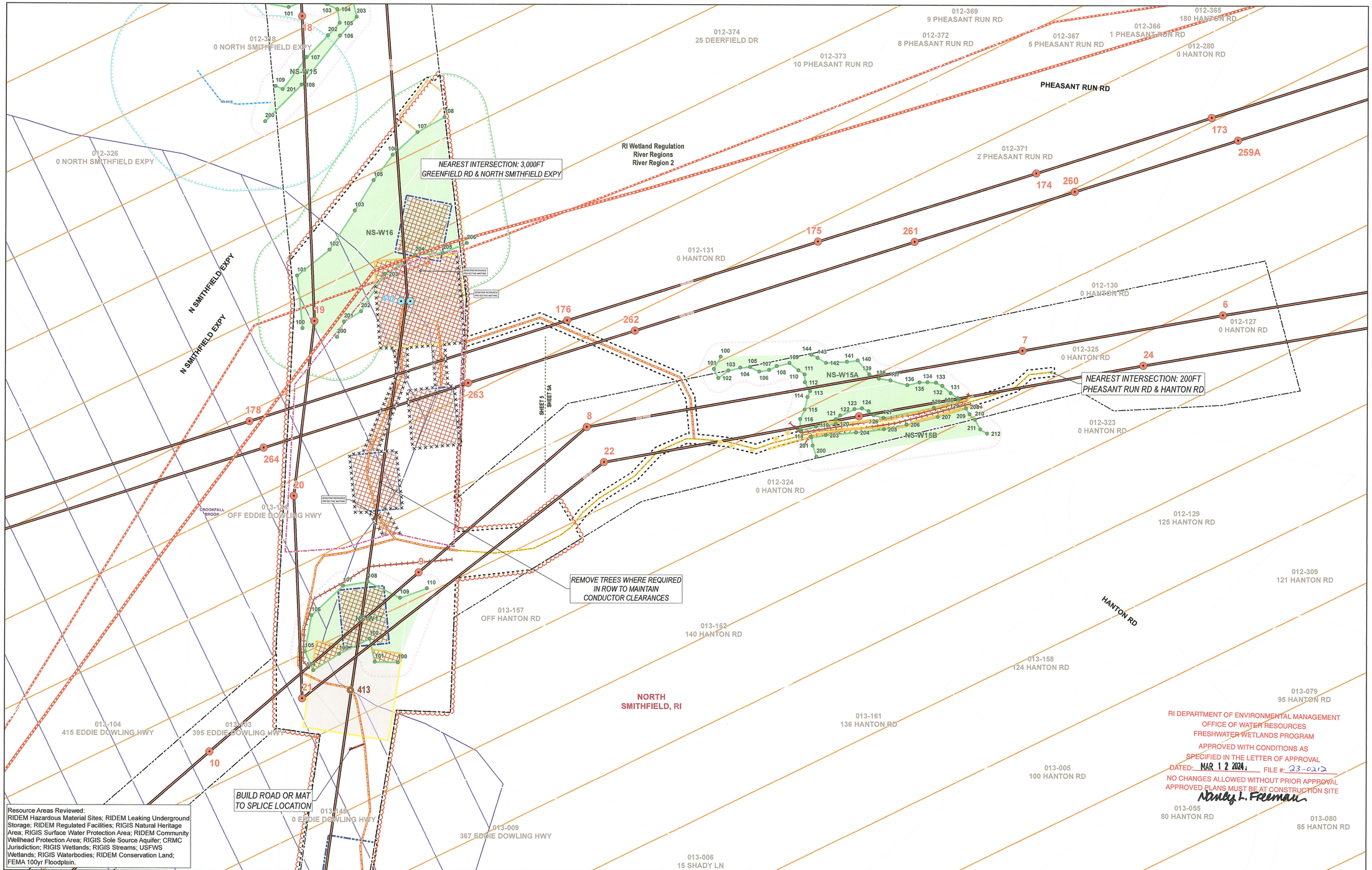

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Feet

Parcel ID:
012-127
012-129
012-130
012-131
012-323
012-324
012-324
012-325
012-371
013-005
013-103
013-144
013-145
013-157
013-158
013-161
013-162

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Hanton Road
North Smithfield, RI
Page 5A of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

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FEB 26 2024
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15 of 38

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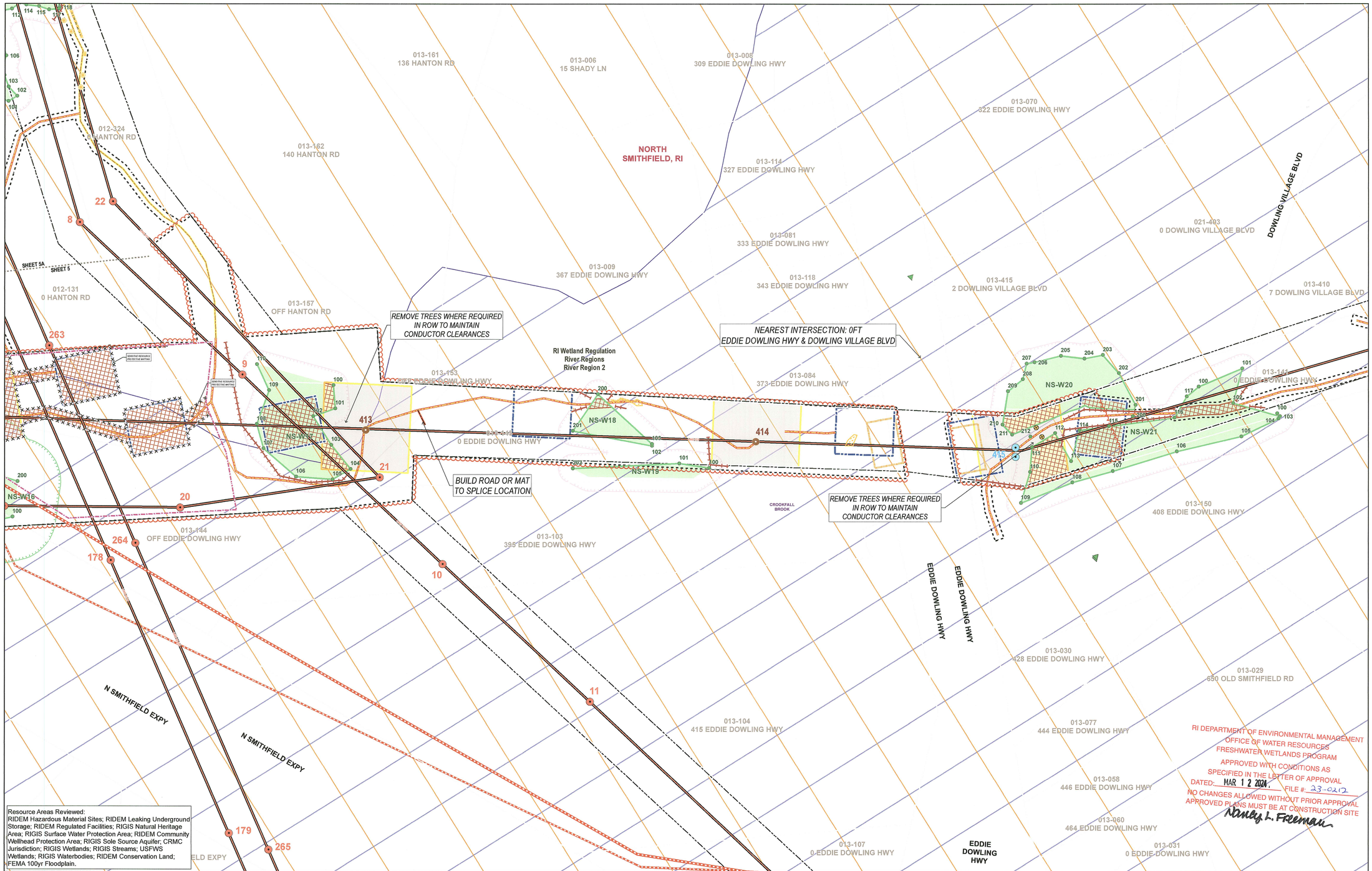

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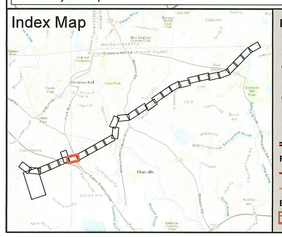

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0 50 100
Feet

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Parcel ID:	
013-009	013-415
013-029	021-403
013-030	
013-070	
013-077	
013-081	
013-084	
013-103	
013-104	
013-114	
013-118	
013-141	
013-144	
013-145	
013-150	
013-153	
013-157	
013-162	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Eddie Dowling Highway
North Smithfield, RI
Page 6 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
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RI Environmental Management
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013-018
40 OLD LOUISQUISSET PIKE
013-008
399 EDDIE DOWLING HWY
013-114
327 EDDIE DOWLING HWY
013-070
322 EDDIE DOWLING HWY
013-081
333 EDDIE DOWLING HWY
013-118
343 EDDIE DOWLING HWY
021-403
0 DOWLING VILLAGE BLVD
013-410
7 DOWLING VILLAGE BLVD
021-418
0 DOWLING VILLAGE WAY
013-415
2 DOWLING VILLAGE BLVD
DOWLING VILLAGE BLVD
NEAREST INTERSECTION: 0FT
EDDIE DOWLING HWY & DOWLING VILLAGE BLVD
NEAREST INTERSECTION: 1,000FT
EDDIE DOWLING HWY & DOWLING VILLAGE BLVD
RI Wetland Regulation
River Regions
River Region 2
NORTH
SMITHFIELD, RI
REMOVE TREES WHERE REQUIRED
IN ROW TO MAINTAIN CONDUCTOR CLEARANCES
NS-W20
NS-W21
NS-W22
NS-W23
415
416
417
418
013-141
0 EDDIE DOWLING HWY
013-154
OFF EDDIE DOWLING HWY
EDDIE DOWLING HWY
EDDIE DOWLING HWY
CROOKFALL BROOK
013-150
408 EDDIE DOWLING HWY
013-022
OFF EDDIE DOWLING HWY
013-030
428 EDDIE DOWLING HWY
013-077
444 EDDIE DOWLING HWY
013-029
650 OLD SMITHFIELD RD
013-058
446 EDDIE DOWLING HWY
013-028
684 OLD SMITHFIELD RD
013-023
OFF EDDIE DOWLING HWY
013-169
OLD SMITHFIELD RD

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: MAR 12 2024 FILE #: 23-0212
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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Dowling VIllage Boulevard
North Smithfield, RI
Page 7 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

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021-403
0 DOWLING VILLAGE BLVD

39

021-418
0 DOWLING VILLAGE WAY

013-139
OFF EDDIE DOWLING HWY

013-410
7 DOWLING VILLAGE BLVD

013-024-A
OFF EDDIE DOWLING HWY

013-023-A
OFF EDDIE DOWLING HWY

NEAREST INTERSECTION: 2,500FT
EDDIE DOWLING HWY & DOWLING VILLAGE BLVD

RI Wetland Regulation
River Regions
River Region 2

013-140
OFF EDDIE DOWLING HWY

417

418

419

420

NS-W22

NS-W23

013-154
OFF EDDIE DOWLING HWY

013-145
OFF EDDIE DOWLING HWY

013-151
OFF EDDIE DOWLING HWY

NORTH
SMITHFIELD, RI

013-022
OFF EDDIE DOWLING HWY

CROOKFALL
BROOK

013-024
OFF EDDIE DOWLING HWY

013-023
OFF EDDIE DOWLING HWY

013-169
796 OLD SMITHFIELD RD

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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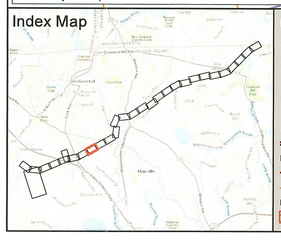

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EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

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0 50 100
Feet

Parcel ID:
013-022
013-023
013-023-A
013-024
013-024-A
013-139
013-140
013-141
013-149
013-151
013-154
013-410
021-418

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Dowling VIllage Boulevard
North Smithfield, RI
Page 8 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
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013-139
OFF EDDIE DOWLING HWY

021-418
0 DOWLING VILLAGE WAY

33-17112
LORING STREET

180 ALLEN STREEET UNIT 101
25 VILLA NOVA STREET

29 CANAL STREET UNT 1

34-71146
HAWTHORN CIRCLE

34-73161
HAWTHORN CIRCLE

C/O RAYMOND BOURQUE

74 SOUTH MAIN STREET

100 CROSSING BOULEVARD

29 CANAL STREET APT 1

33-1169
MAIN STREET

34-81182
HAWTHORNE CIRCLE

33-1877
ELM STREET

34-74165
HAWTHORNE CIRCLE

370 DUNLAP STREET

WOONSOCKET, RI

013-024-A
OFF EDDIE DOWLING HWY

34-13177
HAWTHORN CIRCLE

013-023-A
OFF EDDIE DOWLING HWY

34-86197
HAWTHORN CIRCLE

33-40

33-51500
MANVILLE ROAD

NEAREST INTERSECTION: 1,500FT
HAWTHORNE CIR & LYDIA AVE

013-046
OFF EDDIE DOWLING HWY

34-85213
HAWTHORN CIRCLE

013-138
OFF EDDIE DOWLING HWY

420

421

422

423

013-151
OFF EDDIE DOWLING HWY

NORTH SMITHFIELD, RI

013-149
OFF EDDIE DOWLING HWY

RI Wetland Regulation
River Regions
River Region 2

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

013-155
OFF EDDIE DOWLING HWY

34-5540 SYLVAN ROAD

34-5740
SYLVAN ROAD

013-152
OFF EDDIE DOWLING HWY

CROOKFALL BROOK

013-045
OFF EDDIE DOWLING HWY

013-023
OFF EDDIE DOWLING HWY

013-024
OFF EDDIE DOWLING HWY

013-047
0 MANVILLE RD

013-025
956 OLD SMITHFIELD RD

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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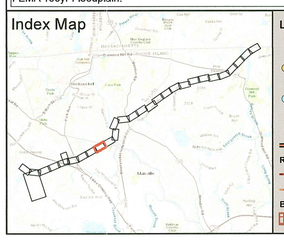

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013-023-A	
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013-025	
013-045	
013-046	
013-138	
013-149	
013-151	
013-152	
013-155	
021-418	
33-1	
33-18	
33-4	
33-5	
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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Dowling VIllage Boulevard
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Plan Prepared By: RGS
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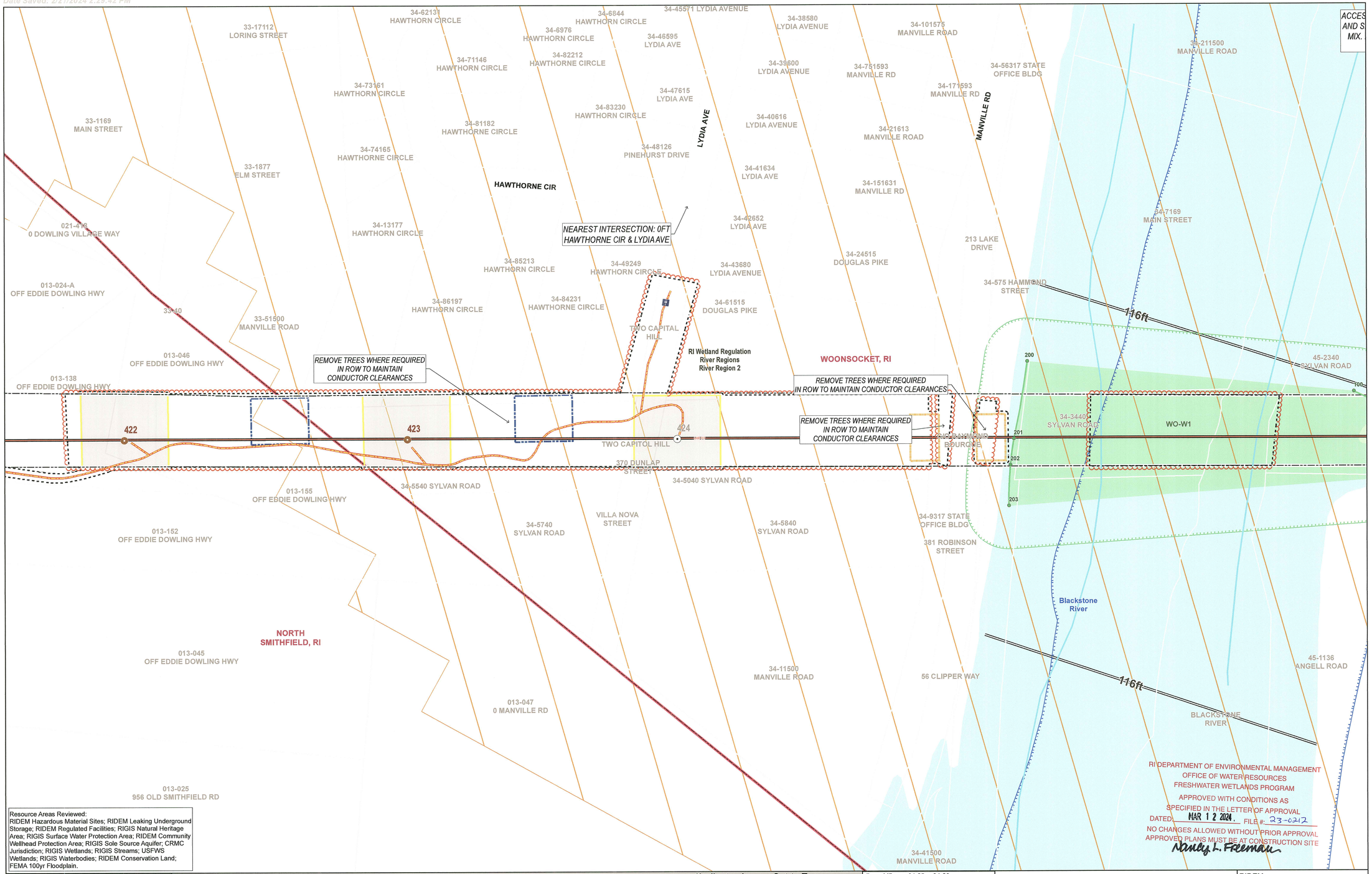

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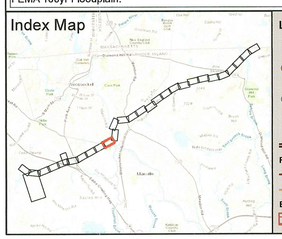

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013-045	34-9	
013-046		
013-047		
013-138		
013-152		
013-155		
33-18	33-5	
34-1	34-13	
34-15	34-24	
34-34	34-41	
34-42	34-43	
34-48	34-49	
34-5	34-50	
34-55	34-56	
34-57	34-58	
34-61	34-7	
34-74	34-84	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Mainville Road
North Smithfield & Woonsocket, RI
Page 10 of 28

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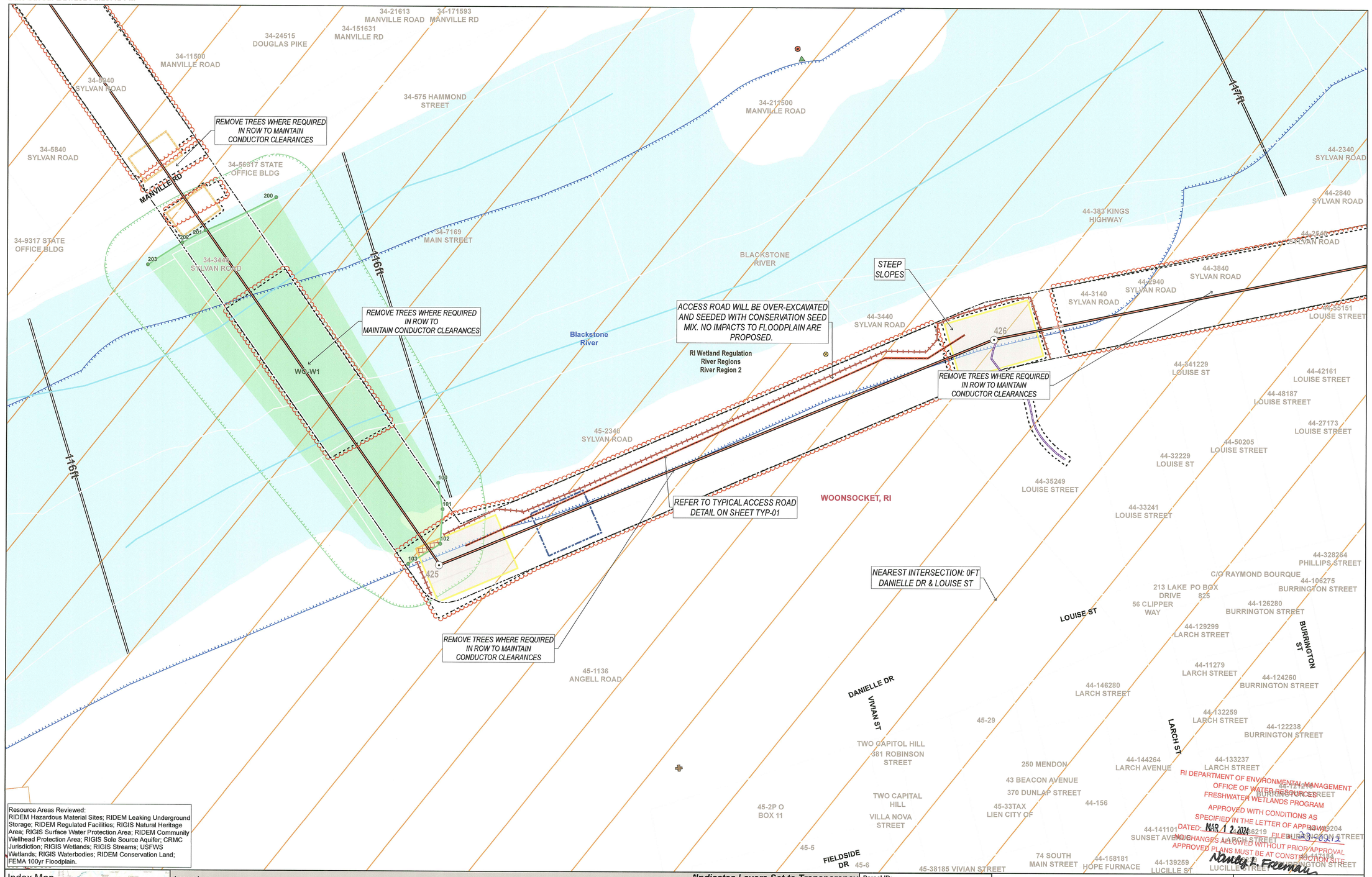
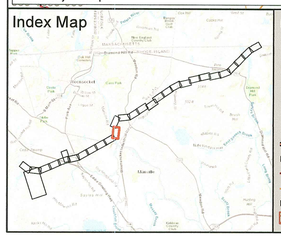


Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

Index Map



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Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

- Work Envelope (Mow ONLY)
- Work Envelope (Grading)
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- Limit of Grading
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- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

***Indicates Layers Set to Transparency**

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet

0 50 100 Feet

Parcel ID:

4-21	34-34
34-5	34-56
34-7	34-7
44-146	44-29
44-3	44-31
44-32	44-33
44-34	44-35
45-1	45-23
45-29	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Mainville Road
Woonsocket, RI
Page 11 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
FEB 26 2024
Office of Water Resources

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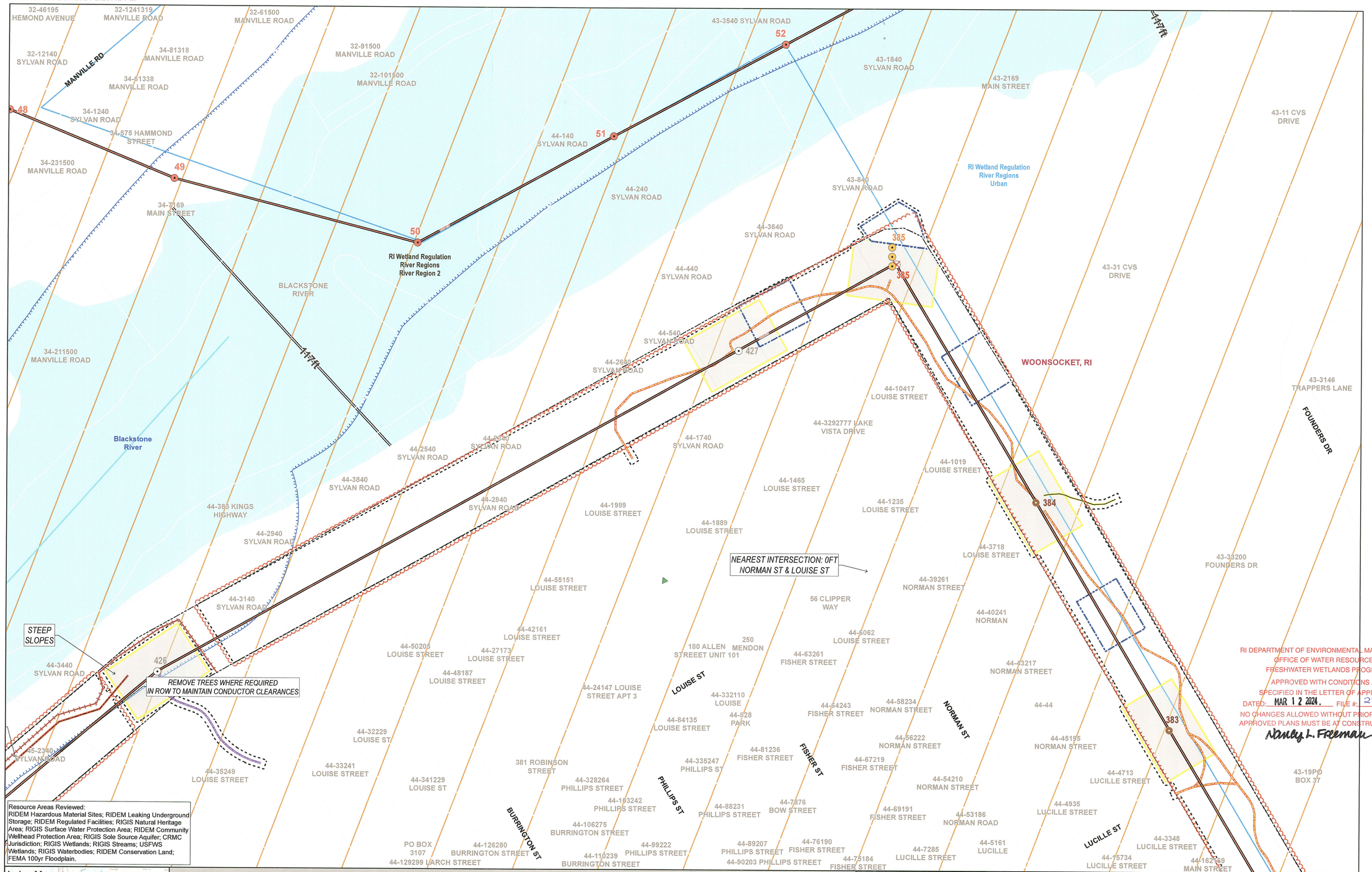

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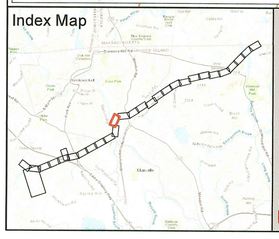

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Parcel ID:

34-7	43-2
43-3	43-33
43-8	44-1
44-10	44-104
44-12	44-14
44-17	44-18
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44-23	44-24
44-25	44-26
44-27	44-28
44-29	44-3
44-31	44-32
44-329	44-33
44-332	44-34
44-341	44-35
44	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Louise Street
Woonsocket, RI
Page 12 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Nancy L. Freeman

RI Environmental Management
FEB 26 2024
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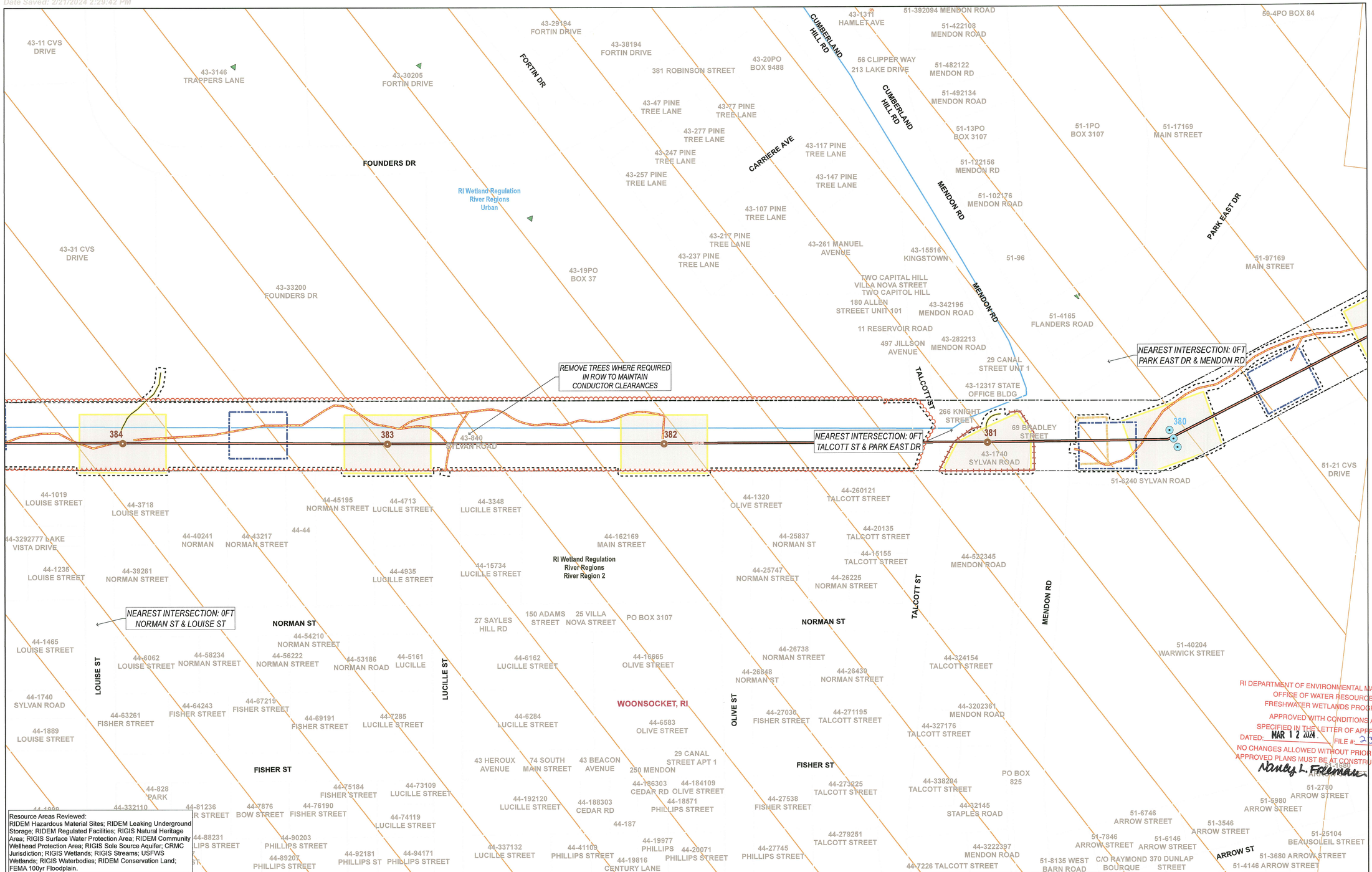

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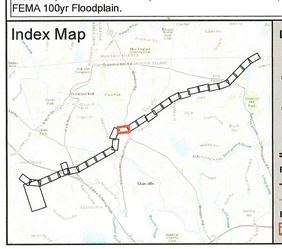

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- River Region 2
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Feet

Parcel ID:	44-267
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43-19	43-21
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43-34	43-8
44-13	44-15
44-157	
44-162	
44-166	44-20
44-257	
44-258	
44-260	
44-262	
44-264	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Cumberland Hill Road
Woonsocket, RI
Page 13 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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RI Environmental Management
FEB 2 6 2024
Office of Water Resources

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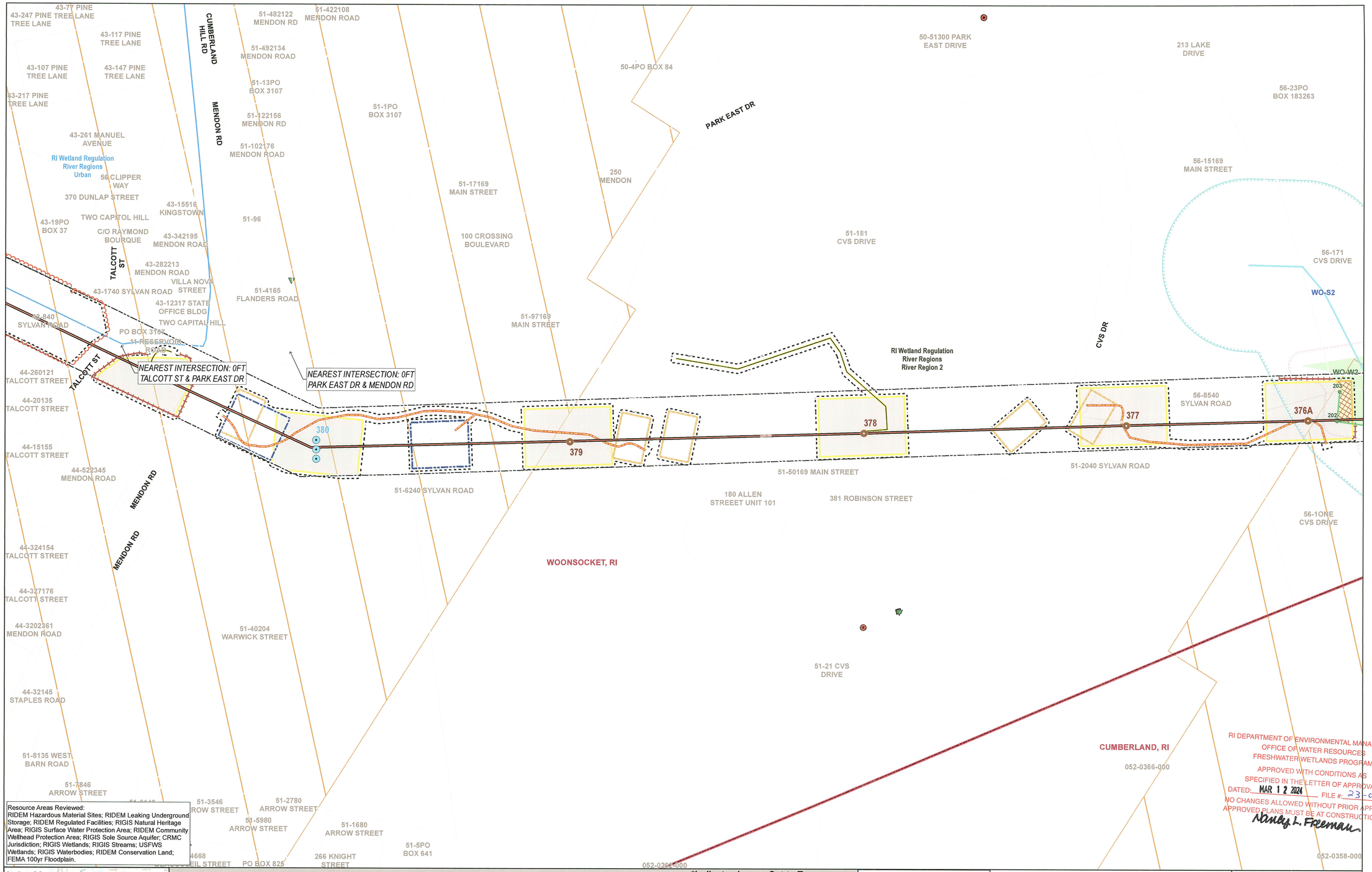

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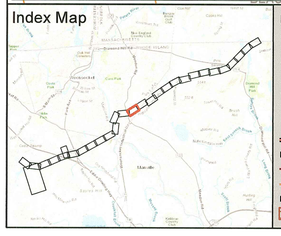

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EPCRA Tier II Facilities (2021)
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RI Wetland Regulation River Regions
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1 inch = 50 feet
0 50 80 100
Feet

Parcel ID:	
052-0366-000	
51-1	51-10
51-17	51-18
51-2	51-20
51-4	51-40
51-50	51-62
51-96	51-97
56-15	56-85
56-85	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Park East Drive
Woonsocket, RI
Page 14 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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50-51300 PARK EAST DRIVE
250 MENDON
56-181 CVS DRIVE
56-161 CVS DRIVE
56-847 MOLTER STREET
381 ROBINSON STREET PO BOX 825
56 CLIPPER WAY
56-23PO BOX 183263
PARK EAST DR
69 BRADLEY STREET
RI Wetland Regulation River Regions River Region 2
56-15169 MAIN STREET
56-22169 MAIN STREET
56-940 SYLVAN ROAD
56-6811 PARK EAST DRIVE
56-171 CVS DRIVE
56-21 CVS DRIVE
51-181 CVS DRIVE
WOONSOCKET, RI
CVS DR
NEAREST INTERSECTION: 1, 200FT CVS DR & PARK EAST DR
BUILD ROAD OR MAT TO SPLICE LOCATION
WO-S2
WO-W2
WO-W4
WO-W3
56-8540 SYLVAN ROAD
56-1040 SYLVAN ROAD
051-0058-000
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052-0364-001
052-0366-000
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052-0360-000
HIGHLAND CORPORATE DR

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051-0058-000
052-0016-000
052-0358-000
052-0359-000
052-0364-003
052-0366-000
052-0377-000
51-18 51-2
51-20 56-1
56-10 56-15
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56-6 56-85
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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

CVS Drive
Cumberland & Woonsocket, RI
Page 15 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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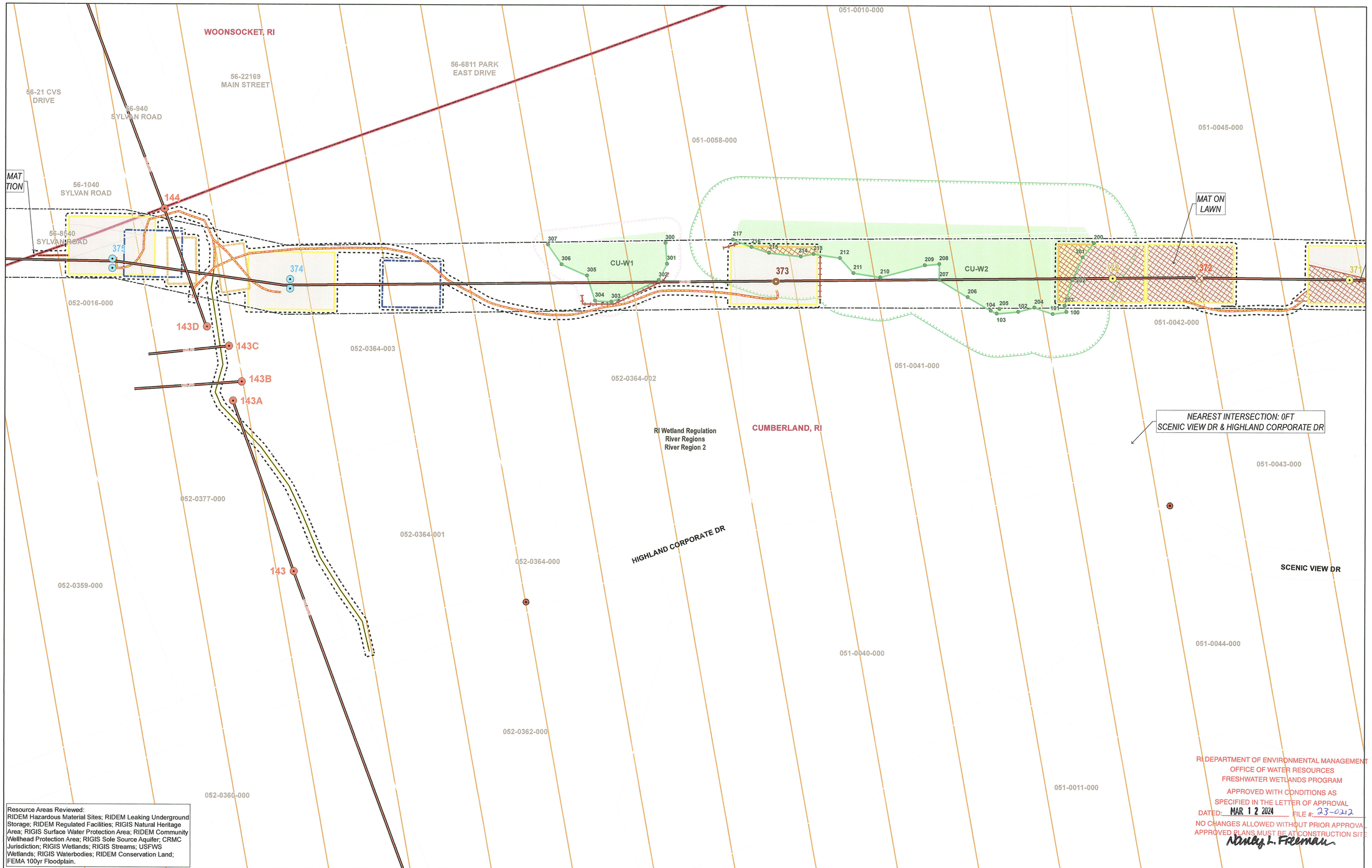

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- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

***Indicates Layers Set to Transparency**

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = ~~50~~ 80 feet
0 50 100
Feet

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Parcel ID:	56-9
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051-0041-000	
051-0042-000	
051-0044-000	
051-0045-000	
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052-0364-000	
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052-0364-002	
052-0364-003	
052-0377-000	
56-22	56-6

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Highland Corporate Drive
Cumberland & Woonsocket, RI
Page 16 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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WOONSOCKET, RI

59-186 BLACKSTONE VALLEY PL STE 401

59-171137 PARK EAST DRIVE

56-6811 PARK EAST DRIVE

051-0010-000

051-0058-000

051-0055-000

051-0052-000

HIGHLAND CORPORATE DR

NEAREST INTERSECTION: 0FT
HIGHLAND CORPORATE DR & MAPLE RIDGE DR

MAPLE RIDGE DR

051-0045-000

MAT ON LAWN

MAT ON LAWN

MAT ON LAWN

STEEP SLOPE

CU-W2

CU-S3

CU-W3

372

371

370

369

051-0051-000

051-0042-000

CUMBERLAND, RI

RI Wetland Regulation
River Regions
River Region 2

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

051-0041-000

051-0050-000

NEAREST INTERSECTION: 0FT
SCENIC VIEW DR & HIGHLAND CORPORATE DR

051-0043-000

051-0048-000

051-0049-000

SCENIC VIEW DR

051-0040-000

052-0347-000

051-0047-000

051-0044-000

051-0011-000

051-0046-000

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2024 FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

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- New Road Segment
- Widen & Refresh with Stone

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Park East Drive
Cumberland, RI
Page 17 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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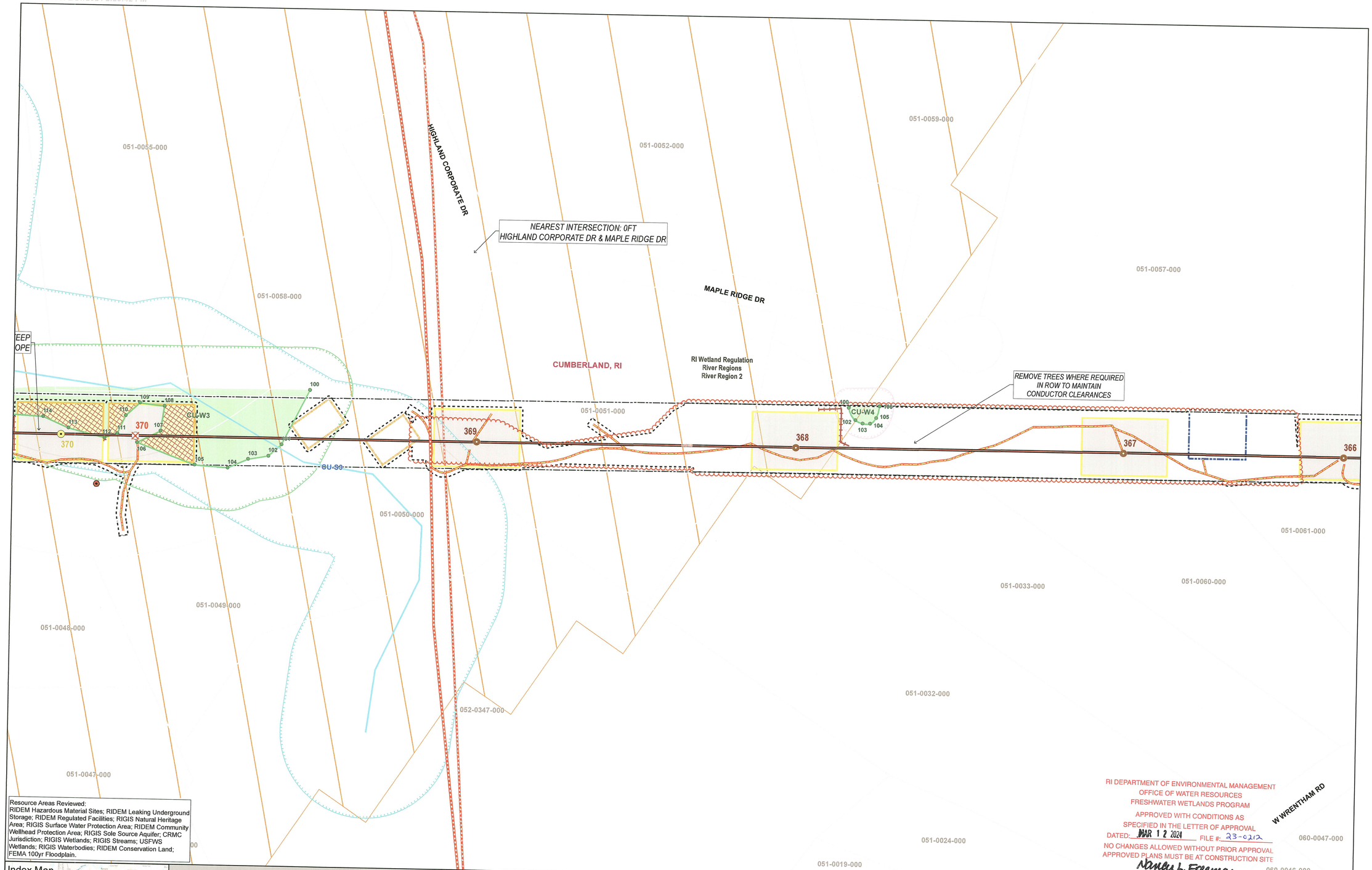

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051-0049-000
051-0050-000
051-0051-000
051-0052-000
051-0055-000
051-0057-000
051-0058-000
051-0059-000
051-0060-000
052-0347-000

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Nancy L. Freeman

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Maple Ridge Drive
Cumberland, RI
Page 18 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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051-0062-000
051-0030-000
ELDER BALLOU MEETING HOUSE RD
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050-0169-000
050-0027-000
050-0015-000
051-0029-000
051-0059-000
051-0035-000
051-0036-000
051-0028-000
RI Wetland Regulation
River Regions
River Region 2
051-0057-000
060-0075-000
051-0052-000
051-0003-000
051-0037-000
CARNATION ST
051-0034-000
CUMBERLAND, RI
MAPLE RIDGE DR
060-0076-000
REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES
REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES
MAT ON LAWN
MAT ON LAWN
CU-W4
CU-W5
CU-W6
CU-W7
CU-S7
CU-W8
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366
367
364
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060-0031-000
050-0023-000
051-0061-000
051-0060-000
051-0033-000
060-0002-000
051-0032-000
060-0048-000
060-0047-000
060-0001-000
060-0046-000
NEAREST INTERSECTION: 0FT
CARNATION ST & WEST WRENTHAM RD
W WRENTHAM RD

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EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

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Parcel ID:
051-0035-000
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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
Cumberland, RI
Page 19 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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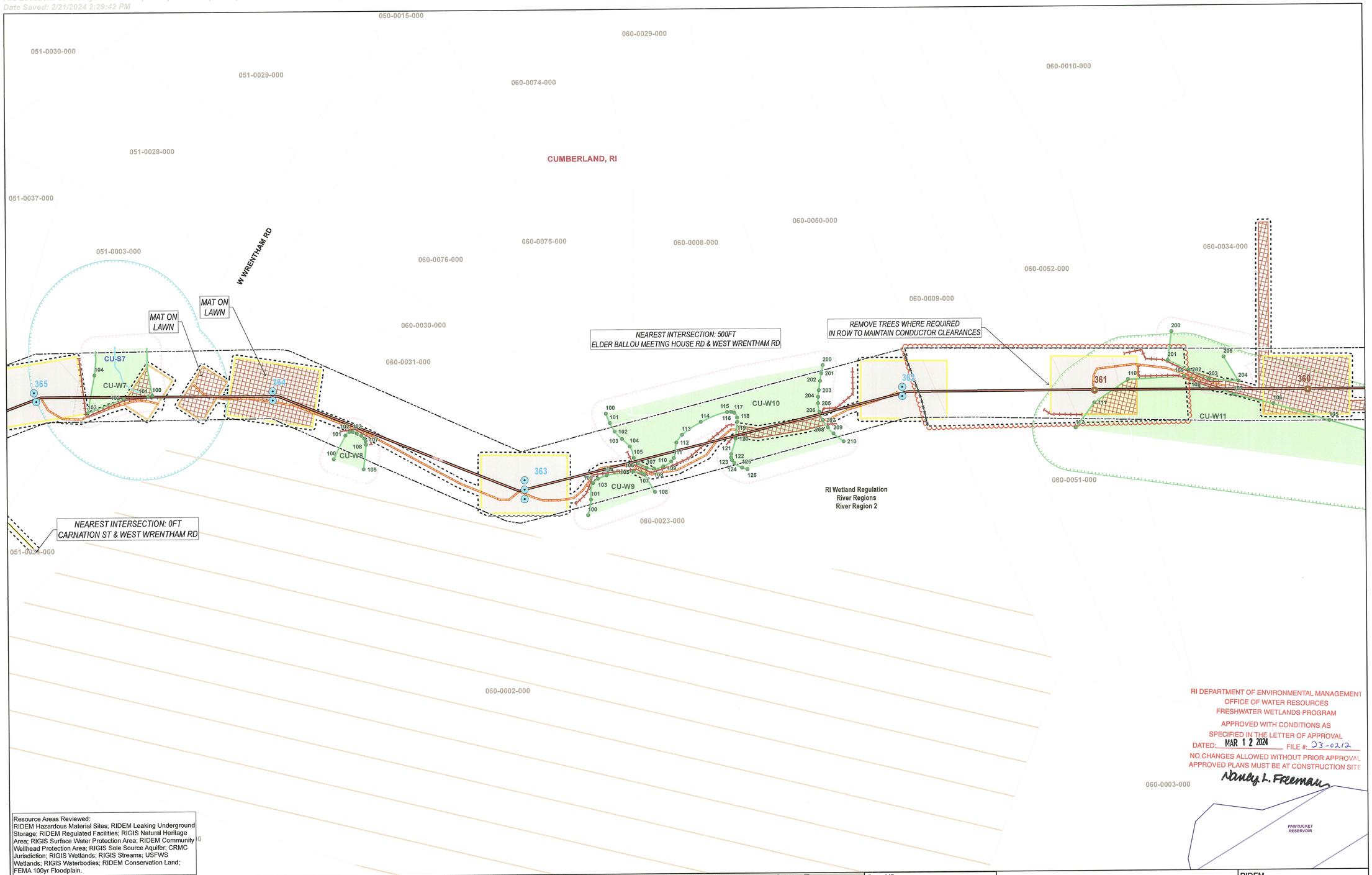

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OFFICE OF WATER RESOURCES
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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
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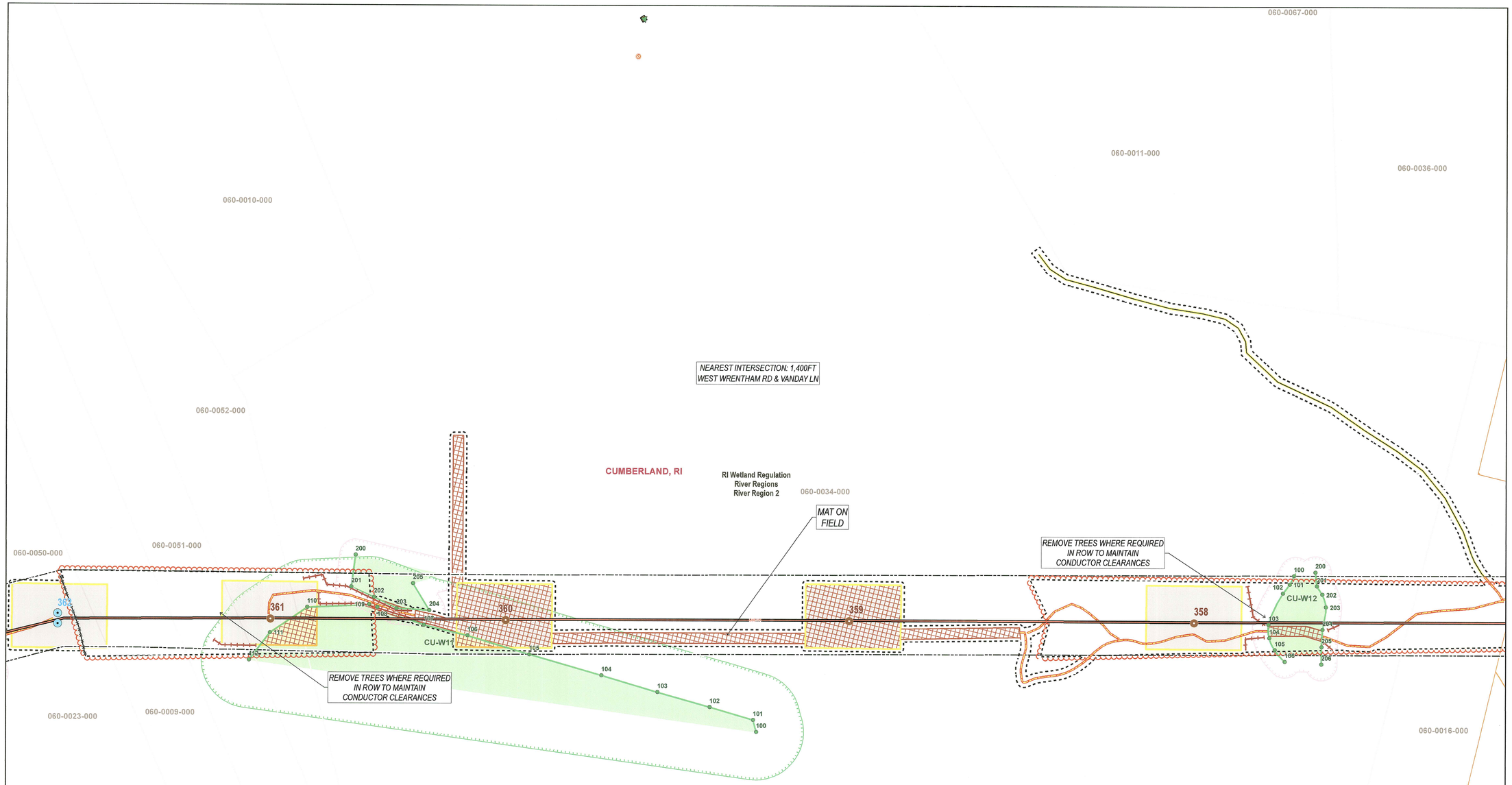

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Wendy L. Freeman

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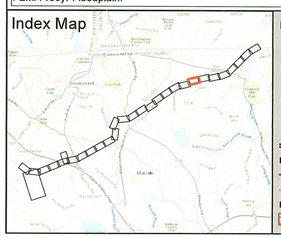

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

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060-0016-000
061-0002-000

NEAREST INTERSECTION: 2,000FT
WEST WRENTHAM RD & VANDAY LN

CUMBERLAND, RI

RI Wetland Regulation
River Regions
River Region 2

358
CU-W12
357
356
CU-W13
355

REMOVE TREES WHERE REQUIRED IN ROW TO MAINTAIN CONDUCTOR CLEARANCES

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2024 FILE #: 23-0212
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

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- Existing Overhead Line

Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

- Work Envelope (Mow ONLY)
- Work Envelope (Grading)
- Temporary Guard Structure Envelope
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- Limit of Grading
- Limit of Disturbance

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EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

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1 inch = 50 feet
0 50 80 100
Feet

Parcel ID:
060-0011-000
060-0016-000
060-0025-000
060-0034-000
060-0036-000

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

West Wrentham Road
Cumberland, RI
Page 22 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
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NEAREST INTERSECTION: 2,300FT
GRANTS MILL RD & PINE SWAMP RD

SENSITIVE RESOURCE
PROTECTIVE MATTING

REPLACE STRUCTURE
10 FT AHEAD

REMOVE TREES WHERE REQUIRED
IN ROW TO MAINTAIN
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TREES TO BE
REMOVED FOR ACCESS

CU-W13

CUMBERLAND, RI

RI Wetland Regulation
River Regions
River Region 2

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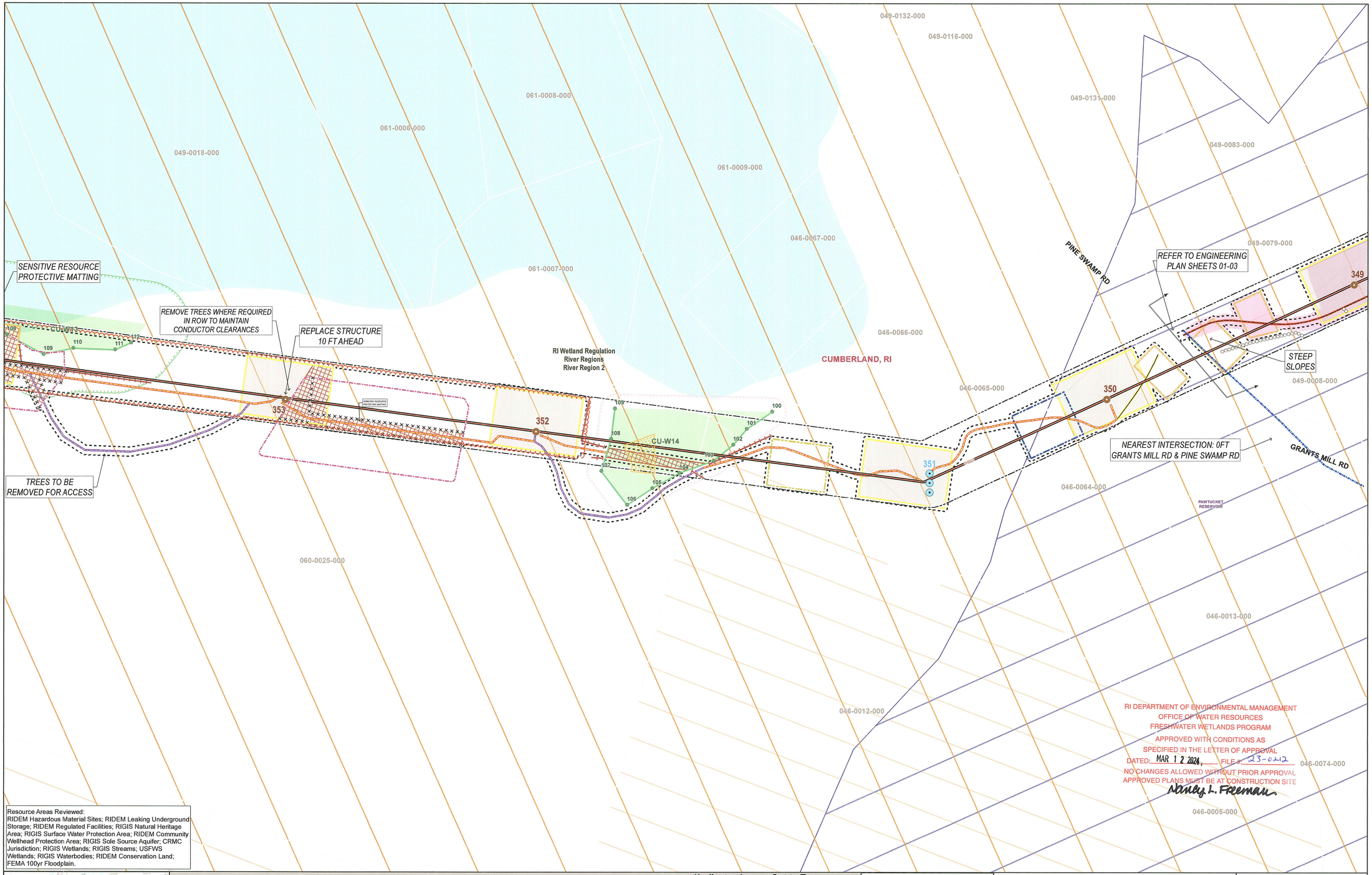

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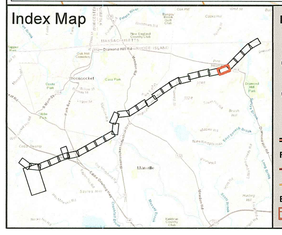

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Pine Swamp Road
Cumberland, RI
Page 24 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

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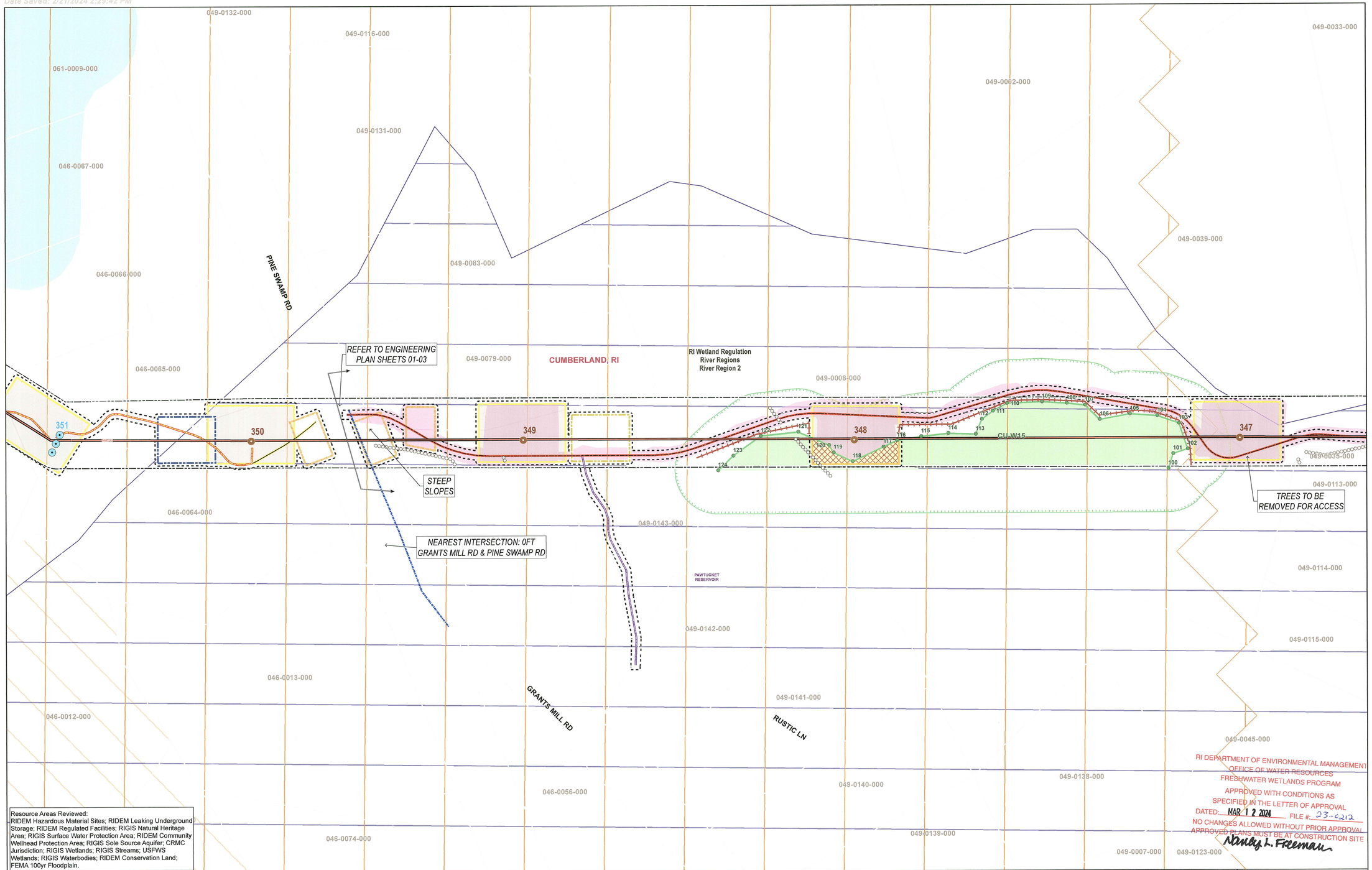

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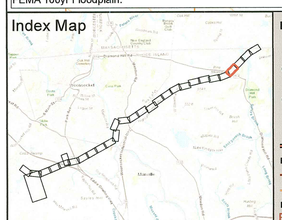

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315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Pine Swamp Road
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CUMBERLAND, RI

COOK RD

PAWTUCKET RESERVOIR

RI Wetland Regulation
River Regions
River Region 2

NEAREST INTERSECTION: 2,000FT
GRANTS MILL RD & PINE SWAMP RD

REFER TO ENGINEERING PLAN SHEETS 01-03

STEEP SLOPES

TREES TO BE REMOVED FOR ACCESS

347
346

CU-W15
CU-W16
CU-W17

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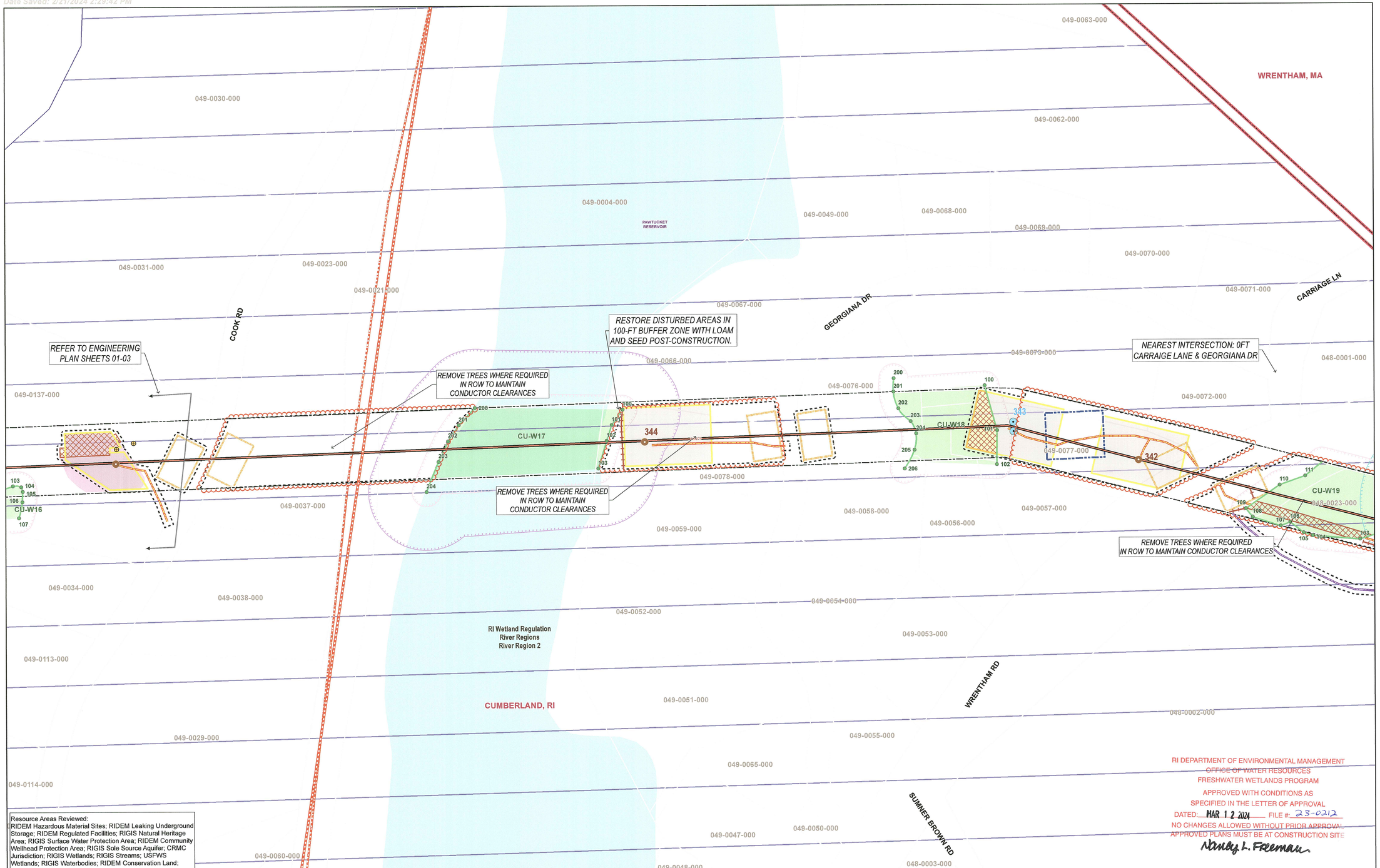

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049-0058-000	

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Georgiana Drive
Cumberland, RI
Page 27 of 28

Plan Prepared By: RGS
Original Date of Plan: 2/10/2023
Latest Revision of Plan: 2/21/2024

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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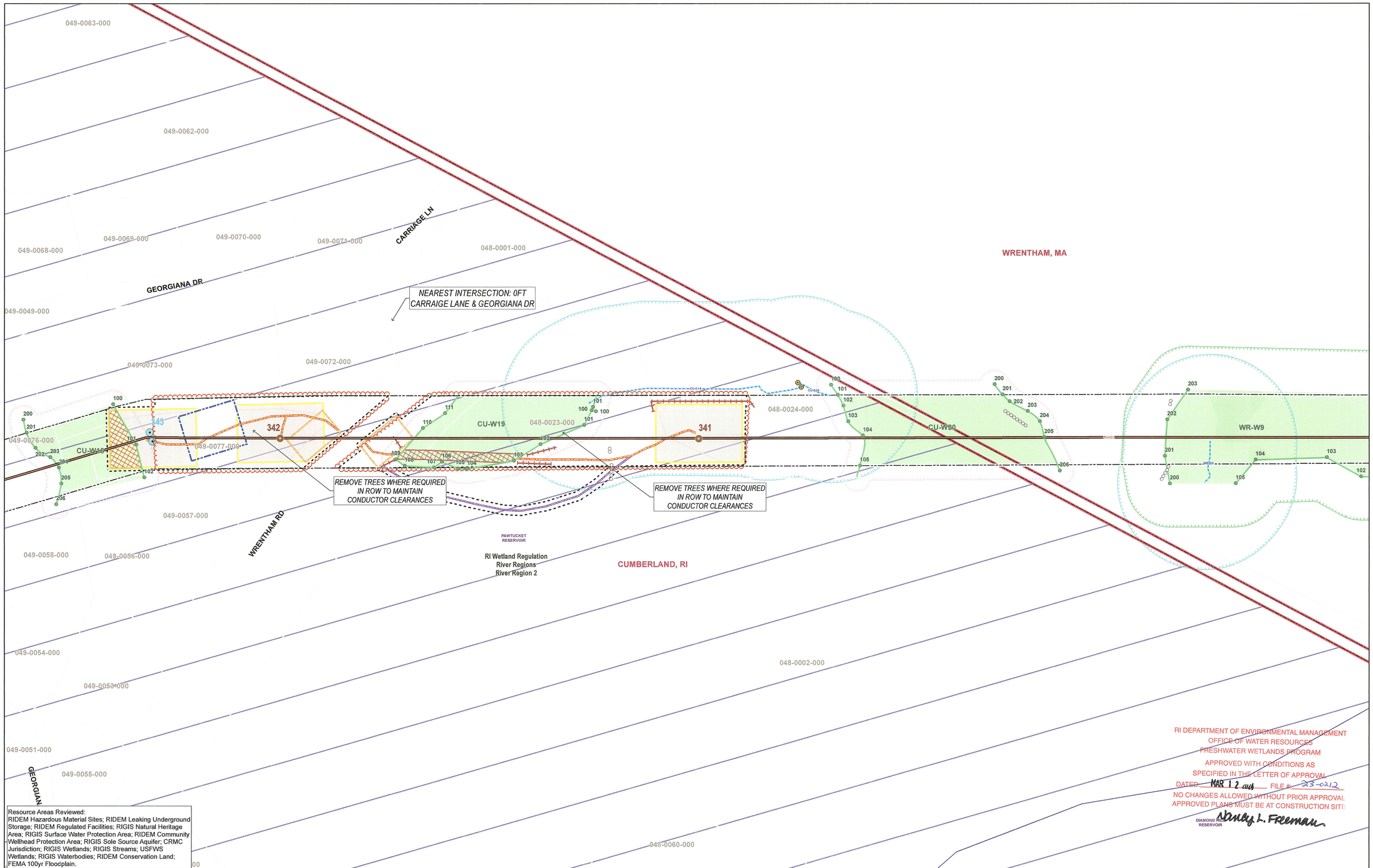
RI Environmental Management
FEB 26 2024
Office of Water Resources

THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE.

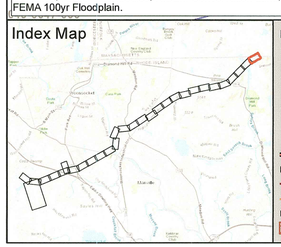
File Location: G:\GISPrj\8982082\Output\Maps\MXD\ReportMaps\RIDEM\315LinePhase4B_RIDEM_20230818.mxd
Date Saved: 2/21/2024 2:29:42 PM



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2024 FILE #: 23-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Wendy L. Freeman

Resource Areas Reviewed:
RIDEM Hazardous Material Sites; RIDEM Leaking Underground Storage; RIDEM Regulated Facilities; RIGIS Natural Heritage Area; RIGIS Surface Water Protection Area; RIDEM Community Wellhead Protection Area; RIGIS Sole Source Aquifer; CRMC Jurisdiction; RIGIS Wetlands; RIGIS Streams; USFWS Wetlands; RIGIS Waterbodies; RIDEM Conservation Land; FEMA 100yr Floodplain.

Index Map



Legend

- Install Structure (Direct Embed)
- Replace Structure (Direct Embed)
- Install Structure (3) Caissons
- Replace Structure with (2) Caissons
- Replace Structure with (3) Caissons
- General Structure Maintenance
- Remove Structure
- Existing Overhead Line

Road Maintenance & Improvements

- New Road Segment
- Widen & Refresh with Stone

Best Management Practices

- Swamp Mats

Work Envelopes

- Work Envelope (Mow ONLY)
- Work Envelope (Grading)
- Temporary Guard Structure Envelope
- Pull Pad Work Envelope (Mow ONLY)
- Limit of Grading
- Limit of Disturbance

Existing Conditions

- Existing Structure
- Existing Access - Refresh with Stone
- Existing Access - No Improvements
- Alternate Existing Access - No Improvements
- Right-of-Way
- Tree Removal Area
- Field Delineated Stream Centerline
- ASSF
- Wetland Flag
- Field Delineated Wetland Line
- Field Delineated Wetland
- Streams
- 25ft Buffer to Wetlands < 1 acre (River Region 2)
- 75ft Buffer to Wetlands ≥ 1 acre (River Region 2)
- 100ft Buffer to Miscoe Lake
- 150ft Buffer to Streams (River Region 2)
- 200ft Buffer to Blackstone River
- FEMA BFE Line
- FEMA 100yr Floodplain*
- Natural Heritage Area
- Conservation Land
- Surface Water Protection Area
- Approximate Pipeline
- Culvert
- Access Gate
- Stone Walls
- Fenceline
- Sensitive Resource Protective Fencing
- Sensitive Resource Area
- Field Identified Protected Resource Point
- Field Identified Protected Resource Line
- Field Identified Protected Resource Area
- Sediment Controls
- Parcel Boundary
- Town Boundary

EPCRA Tier II Facilities (2021)

- Not in DWS

RI Wetland Regulation River Regions

- River Region 2

***Indicates Layers Set to Transparency**

Pages 1-28 entirely within DEM Wetland Jurisdiction.

1 inch = 50 feet
0 50 100
Feet

Parcel ID:
048-0001-000
048-0002-000
048-0023-000
048-0024-000
049-0057-000
049-0062-000
049-0070-000
049-0071-000
049-0072-000
049-0073-000
049-0077-000

315 LINE PROJECT PHASE 4B

Environmental Resources, Soil Erosion & Sediment Control Plan

Wrentham Road
Cumberland, RI & Wrentham, MA
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