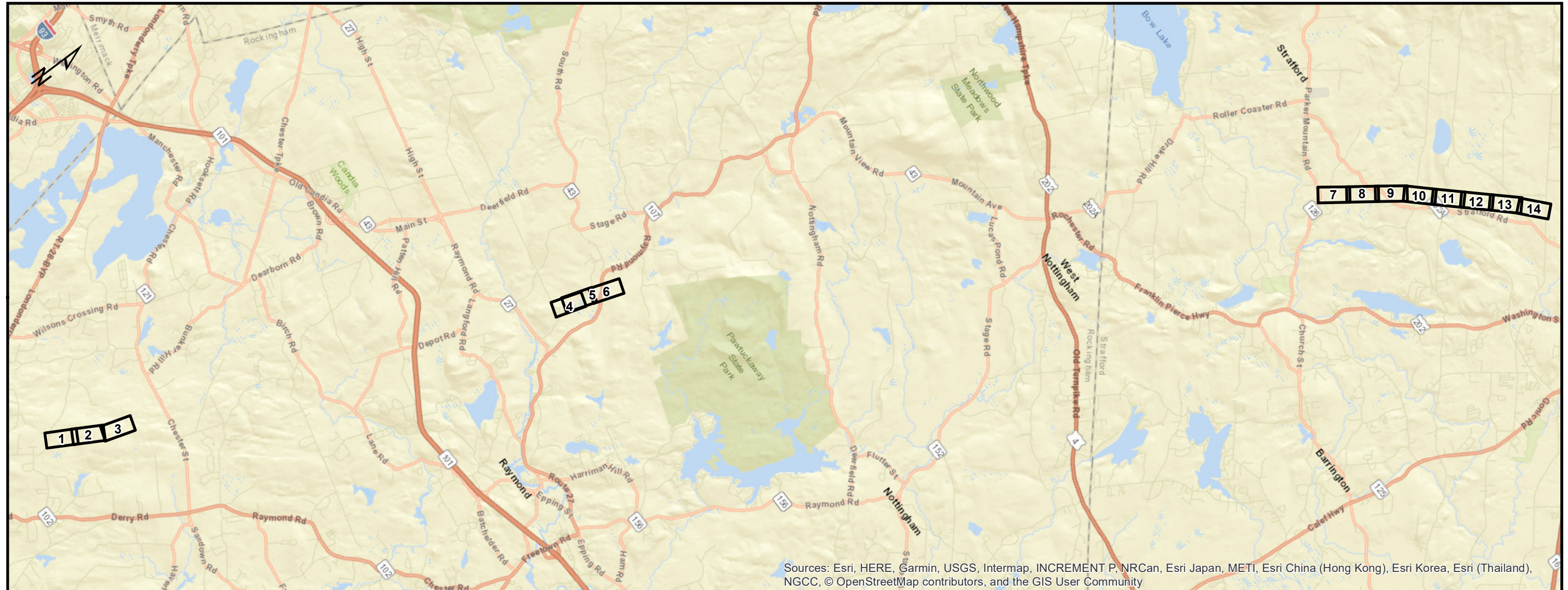


391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

SURFACE WATER AND GROUNDWATER OVERLAY PLANS

AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER,
NEW HAMPSHIRE

4/24/2019



PREPARED FOR

EVERSOURCE
ENERGY

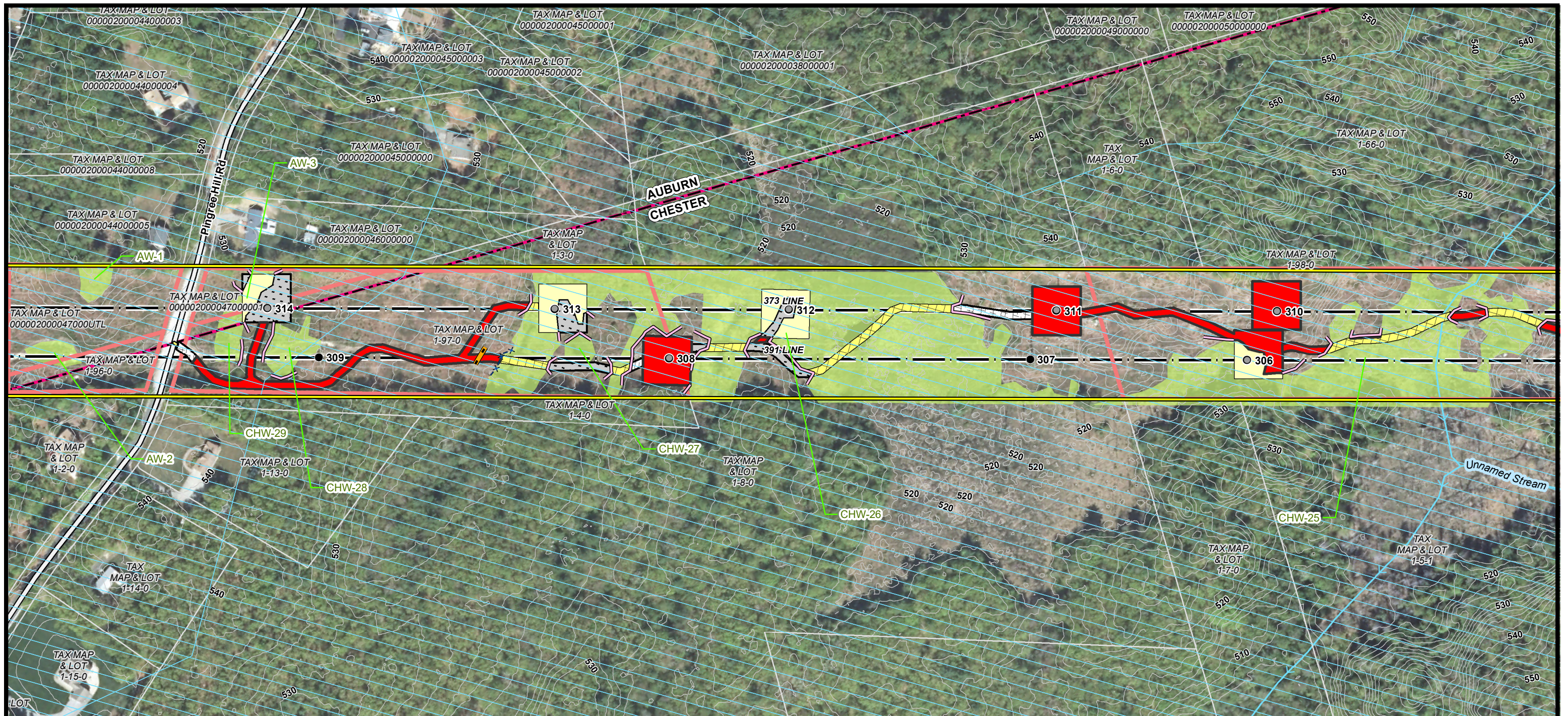
INDEX OF FIGURES

1 inch = 10,517 feet

- T1: TITLE SHEET
- 1-14: MAP SHEETS
- S1: NOTES
- S2: DETAILS
- S3: DETAILS (CONTINUED)

PREPARED BY

GZA GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com



Current Town: Chester/Auburn

<ul style="list-style-type: none"> ▲ Local Potential Contamination Sources — 2FT ELEVATION CONTOUR □ Wellhead Protection Areas (None) □ Watersheds with Chloride Impairments 2016 □ FEMA FIRM Special Flood Hazard Areas □ Water Supply Intake Protection Areas (None) □ Surface Waters with Impairments 2016 with Quarter Mile Buffer □ Outstanding Resource Water Watersheds □ Lakes with a Quarter Mile Buffer □ Groundwater Classification Areas GAA (None Present) □ Groundwater Classification Areas GA2 (None Present) □ Groundwater Classification Areas GA1 (None Present) □ Designated Rivers Quartermile Buffer □ All Features (Class A Surface Waters) ■ AOT DISTURBANCE ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD 	<ul style="list-style-type: none"> ● EXISTING STRUCTURE - NO PROPOSED WORK ○ EXISTING STRUCTURE TO BE REPLACED ■ FIELD DELINEATED WETLANDS — RAILROAD — TRANSMISSION LINE — FENCE — FENCE GATE ○ ROCK WALL — NHD FLOWLINE — SHORELAND ZONE BMP TYPE — SILT FENCE — STRAW WATTLE — WATER BAR ACCESS TYPE — EXISTING-IMPROVED — UPLAND MATTING — WETLAND ACCESS 	<ul style="list-style-type: none"> — NHDOT ROAD — TOWN BOUNDARY ○ PRIMARY ACCESS ○ SECONDARY ACCESS — APPROXIMATE ROW — PARCEL BOUNDARY ■ EVERSOURCE OWNED PROPERTY — 2FT ELEVATION CONTOUR
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Londonderry ← → Rochester

NOTES

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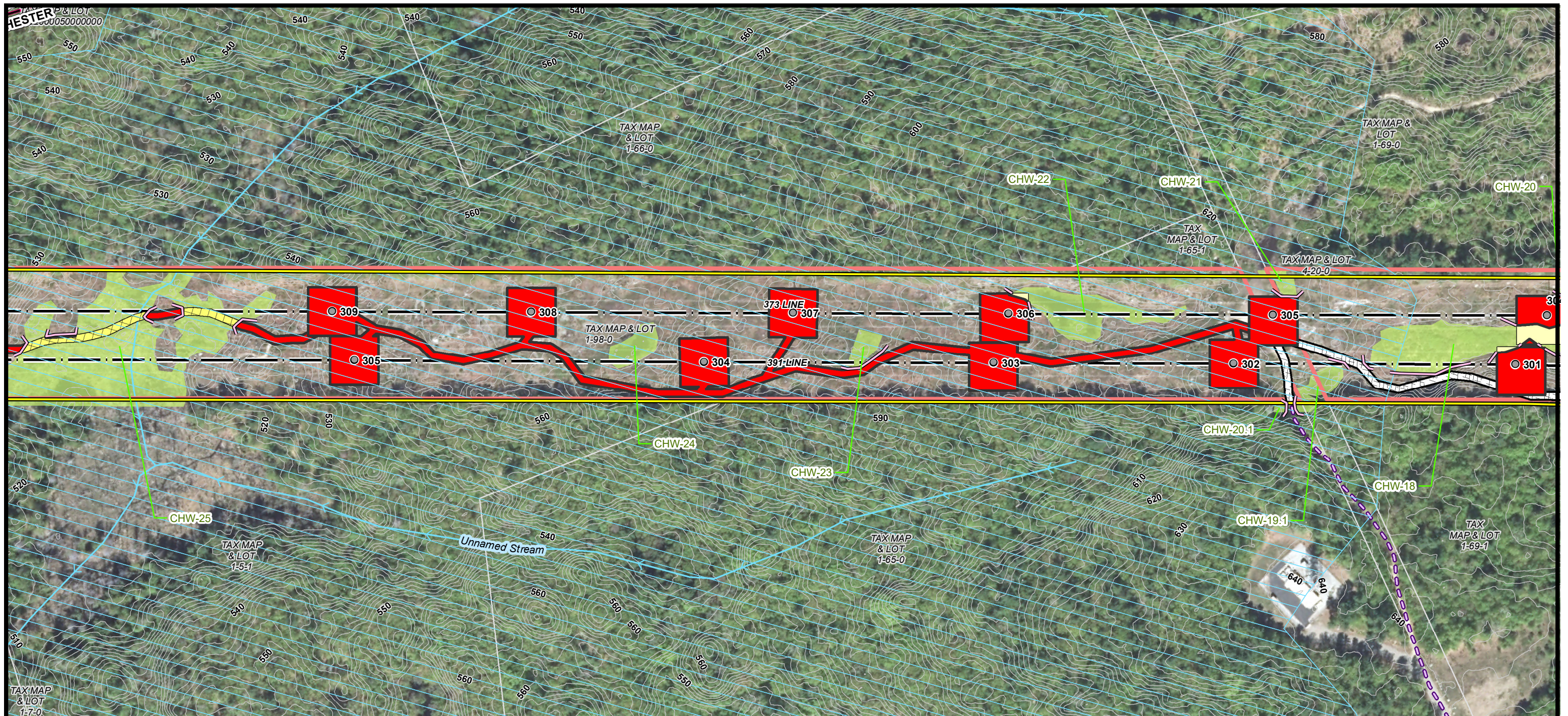
**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
APRIL 24, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 1 OF 14

EVERSOURCE ENERGY

GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com



Current Town: Chester

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Londonderry ← Rochester →

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SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
APRIL 24, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 2 OF 14

Project No.: 04.0190923.01 1 inch = 200 feet





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- Londonderry**
- ▲ Local Potential Contamination Sources
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 - All Features (Class A Surface Waters)
 - AOT DISTURBANCE
 - GRAVEL WORK PAD
 - UPLAND WORK PAD
 - WETLAND WORK PAD

- Current Town: Chester**
- EXISTING STRUCTURE - NO PROPOSED WORK
 - EXISTING STRUCTURE TO BE REPLACED
 - FIELD DELINEATED WETLANDS
 - RAILROAD
 - TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHD FLOWLINE
 - SHORELAND ZONE
 - BMP TYPE**
 - SILT FENCE
 - STRAW WATTLE
 - WATER BAR
 - ACCESS TYPE**
 - EXISTING-IMPROVED
 - UPLAND MATTING
 - WETLAND ACCESS

- Rochester**
- NHDOT ROAD
 - TOWN BOUNDARY
 - PRIMARY ACCESS
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 - EVERSOURCE OWNED PROPERTY
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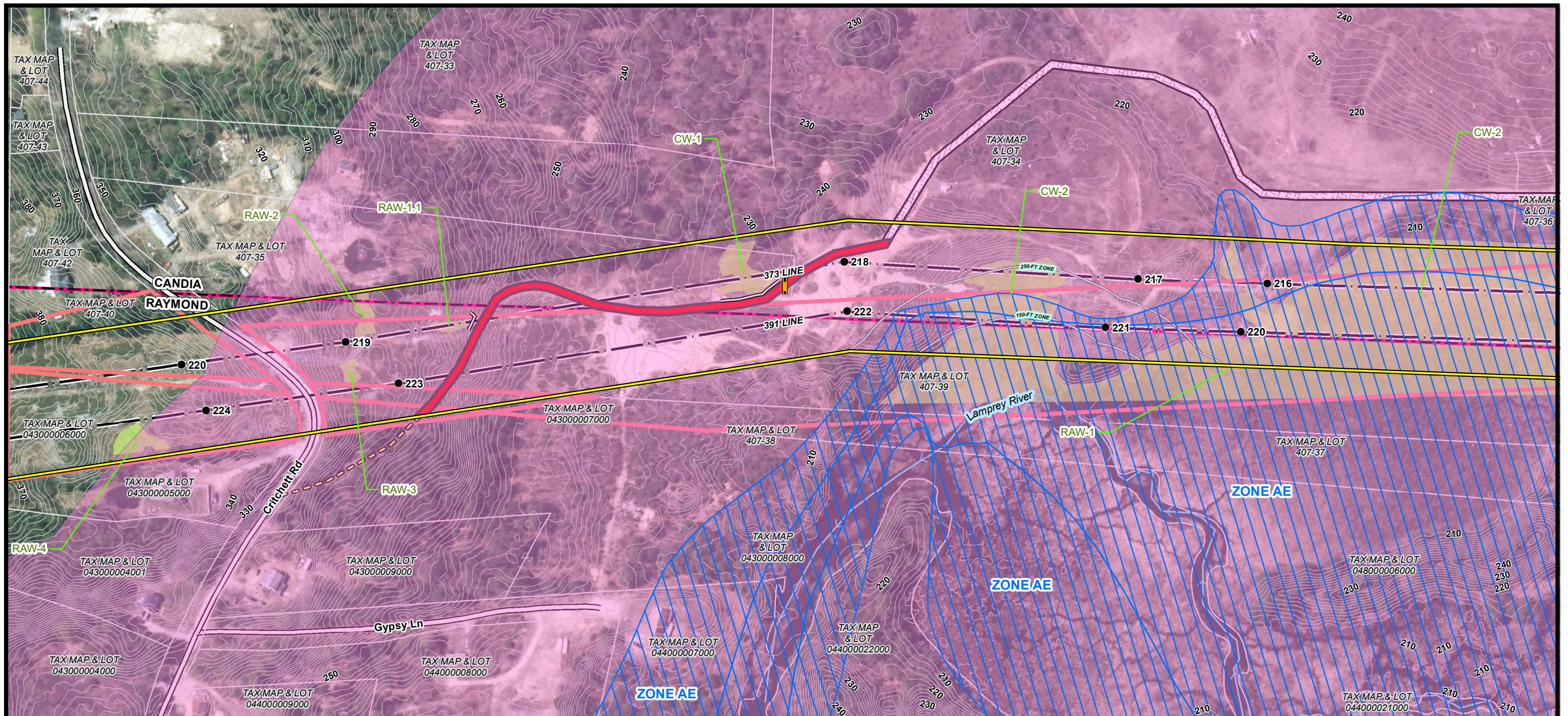
**SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
APRIL 24, 2019**

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 3 OF 14

Project No.: 04.0190923.01 1 inch = 200 feet

EVERSOURCE ENERGY

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www.gza.com



- Londonderry**
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 - All Features (Class A Surface Waters)
 - AOT DISTURBANCE
 - GRAVEL WORK PAD
 - UPLAND WORK PAD
 - WETLAND WORK PAD

- Current Town: Raymond/Candia**
- EXISTING STRUCTURE - NO PROPOSED WORK
 - EXISTING STRUCTURE TO BE REPLACED
 - FIELD DELINEATED WETLANDS
 - RAILROAD
 - TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHD FLOWLINE
 - SHORELAND ZONE
 - NHDOT ROAD
 - TOWN BOUNDARY
 - PRIMARY ACCESS
 - SECONDARY ACCESS
 - APPROXIMATE ROW
 - PARCEL BOUNDARY
 - EVERSOURCE OWNED PROPERTY
 - 2FT ELEVATION CONTOUR
- BMP TYPE**
- SILT FENCE
 - STRAW WATTLE
 - WATER BAR
- ACCESS TYPE**
- EXISTING-IMPROVED
 - UPLAND MATTING
 - WETLAND ACCESS

- Rochester**
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

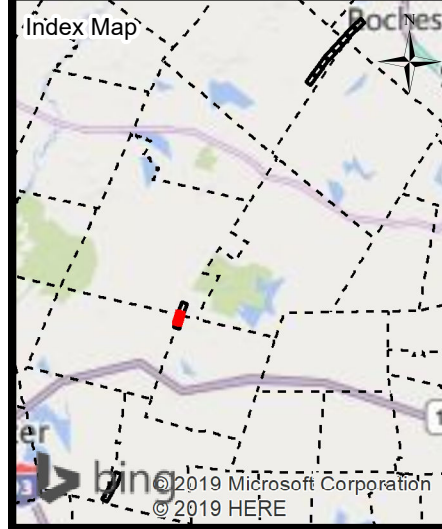
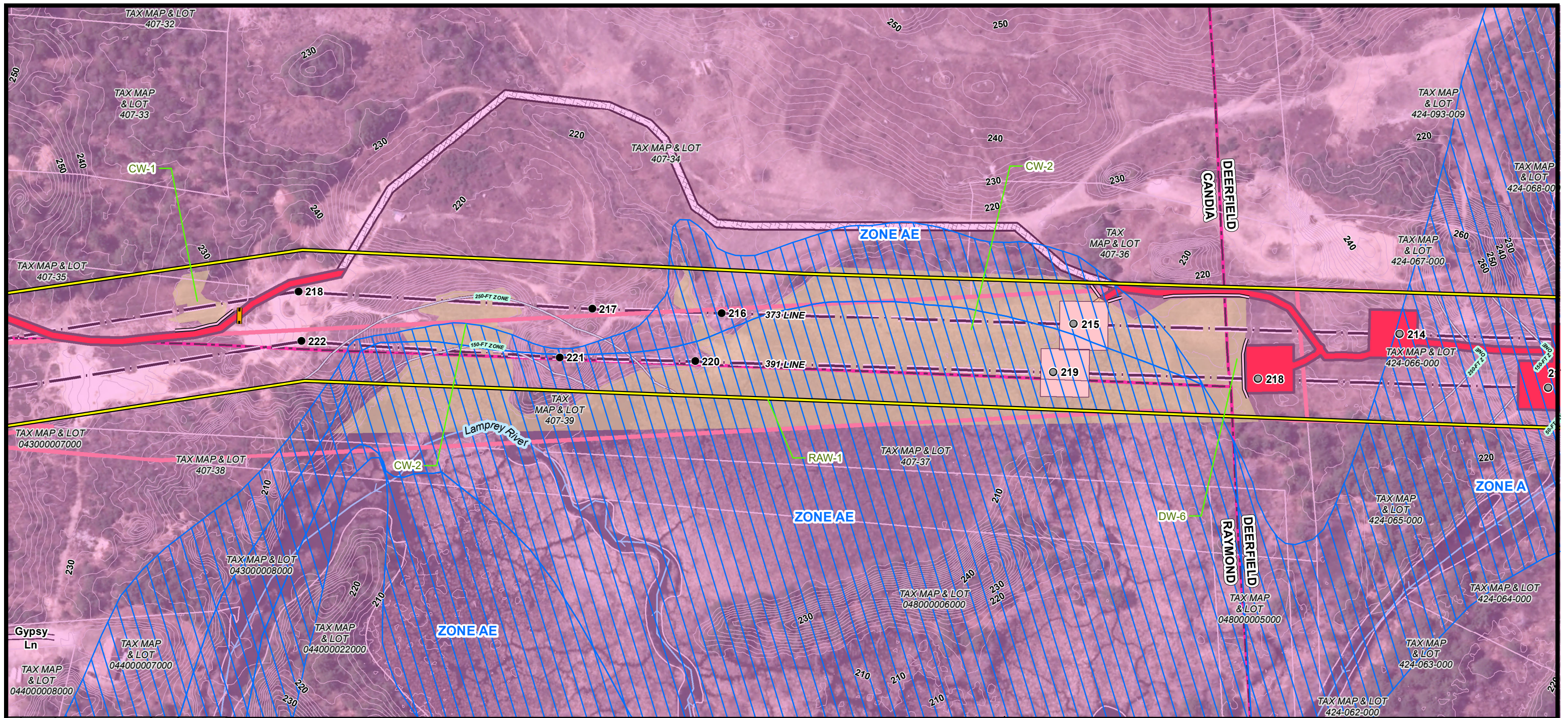
**SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
APRIL 24, 2019**

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 4 OF 14

Project No.: 04.0190923.01 1 inch = 200 feet

EVERSOURCE ENERGY

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Current Town: Raymond/Candia/Deerfield

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Londonderry ←
→ Rochester

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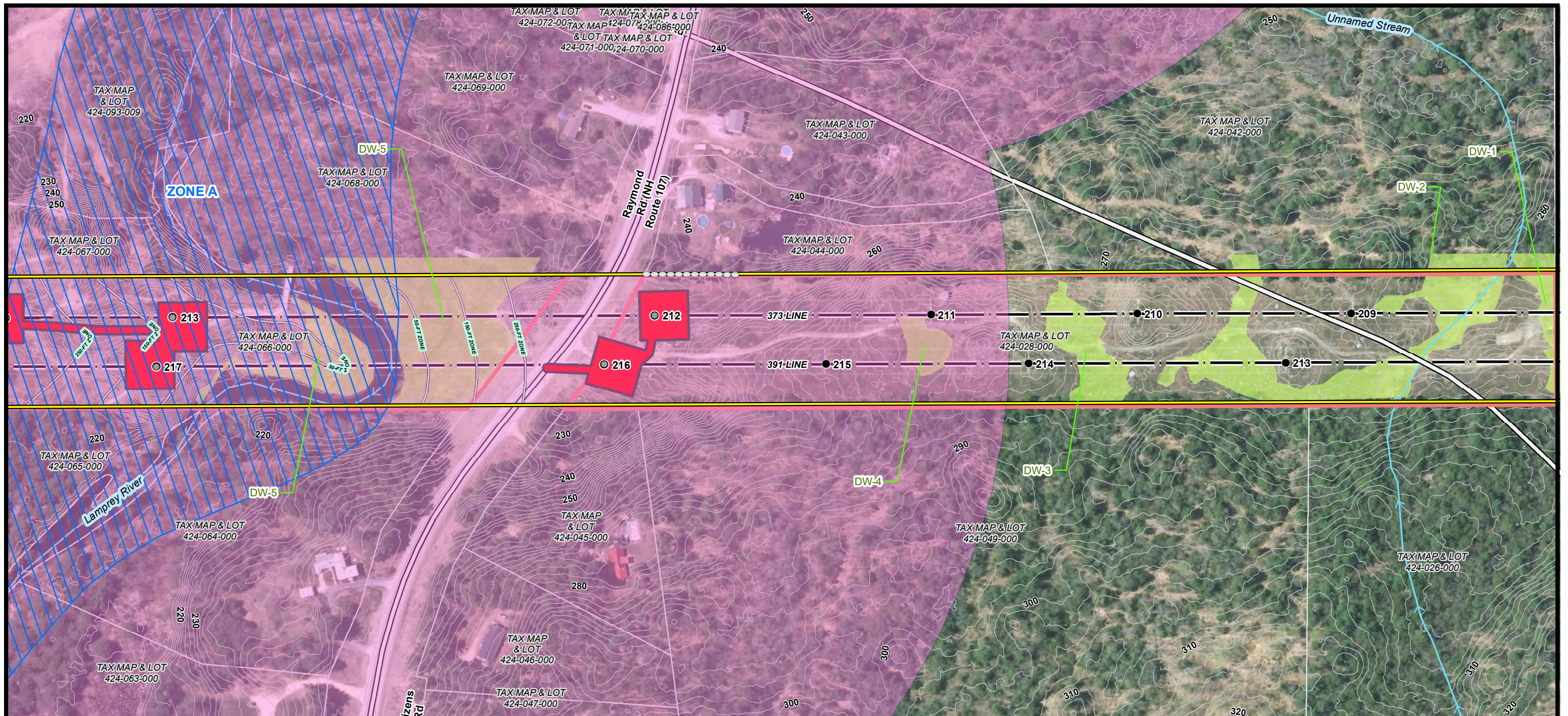
**373, 391, & 385 TRANSMISSION LINE
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SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
APRIL 24, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 5 OF 14

Project No.: 04.0190923.01 1 inch = 200 feet

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www.gza.com



Current Town: Deerfield

<ul style="list-style-type: none"> ▲ Local Potential Contamination Sources — 2FT ELEVATION CONTOUR □ Wellhead Protection Areas (None) □ Watersheds with Chloride Impairments 2016 □ FEMA FIRM Special Flood Hazard Areas □ Water Supply Intake Protection Areas (None) □ Surface Waters with Impairments 2016 with Quarter Mile Buffer □ Outstanding Resource Water Watersheds □ Lakes with a Quarter Mile Buffer □ Groundwater Classification Areas GAA (None Present) □ Groundwater Classification Areas GA2 (None Present) □ Groundwater Classification Areas GA1 (None Present) □ Designated Rivers Quartermile Buffer □ All Features (Class A Surface Waters) ■ AOT DISTURBANCE ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD 	<ul style="list-style-type: none"> ● EXISTING STRUCTURE - NO PROPOSED WORK ● EXISTING STRUCTURE TO BE REPLACED ■ FIELD DELINEATED WETLANDS — RAILROAD — TRANSMISSION LINE — FENCE — FENCE GATE ○ ROCK WALL — NHD FLOWLINE — SHORELAND ZONE BMP TYPE — SILT FENCE — STRAW WATTLE — WATER BAR ACCESS TYPE ■ EXISTING-IMPROVED ■ UPLAND MATTING ■ WETLAND ACCESS 	<ul style="list-style-type: none"> — NHDOT ROAD — TOWN BOUNDARY ○ PRIMARY ACCESS ○ SECONDARY ACCESS — APPROXIMATE ROW — PARCEL BOUNDARY ■ EVERSOURCE OWNED PROPERTY — 2FT ELEVATION CONTOUR
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Londonderry ←
Rochester →

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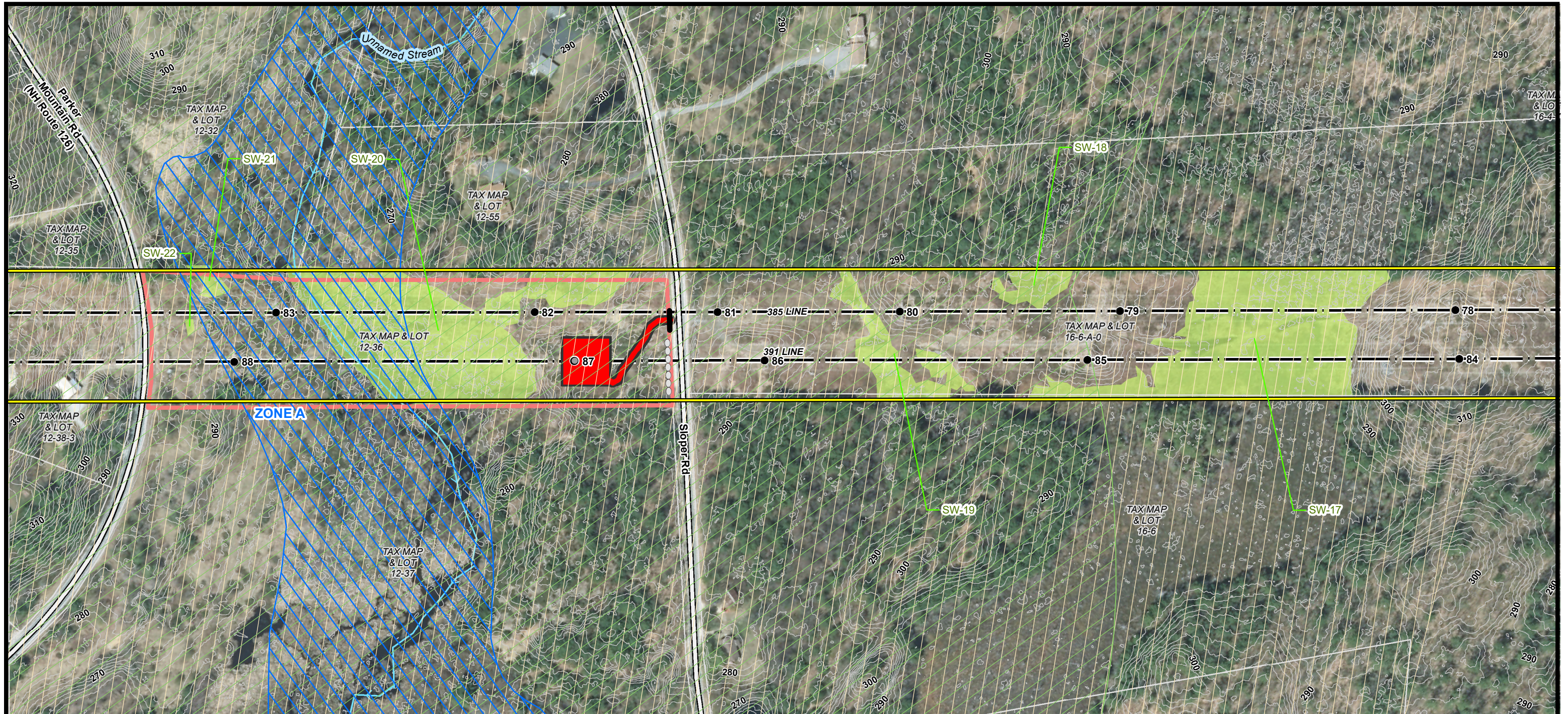
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**SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
APRIL 24, 2019**

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 6 OF 14

Project No.: 04.0190923.01 1 inch = 200 feet

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Engineers and Scientists
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Current Town: Strafford

<ul style="list-style-type: none"> ▲ Local Potential Contamination Sources — 2FT ELEVATION CONTOUR □ Wellhead Protection Areas (None) □ Watersheds with Chloride Impairments 2016 □ FEMA FIRM Special Flood Hazard Areas □ Water Supply Intake Protection Areas (None) □ Surface Waters with Impairments 2016 with Quarter Mile Buffer □ Outstanding Resource Water Watersheds □ Lakes with a Quarter Mile Buffer □ Groundwater Classification Areas GAA (None Present) □ Groundwater Classification Areas GA2 (None Present) □ Groundwater Classification Areas GA1 (None Present) □ Designated Rivers Quartermile Buffer □ All Features (Class A Surface Waters) ■ AOT DISTURBANCE ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD 	<ul style="list-style-type: none"> ● EXISTING STRUCTURE - NO PROPOSED WORK ● EXISTING STRUCTURE TO BE REPLACED ■ FIELD DELINEATED WETLANDS — RAILROAD — TRANSMISSION LINE ✕ FENCE — FENCE GATE ○ ROCK WALL — NHD FLOWLINE — SHORELAND ZONE BMP TYPE ✕ SILT FENCE — STRAW WATTLE — WATER BAR ACCESS TYPE ■ EXISTING-IMPROVED ■ UPLAND MATTING ■ WETLAND ACCESS 	<ul style="list-style-type: none"> — NHDOT ROAD — TOWN BOUNDARY ○ PRIMARY ACCESS ○ SECONDARY ACCESS — APPROXIMATE ROW — PARCEL BOUNDARY ■ EVERSOURCE OWNED PROPERTY — 2FT ELEVATION CONTOUR
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Londonderry ← → Rochester

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AUBURN, CHESTER, CANDIA, RAYMOND,
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NEW HAMPSHIRE
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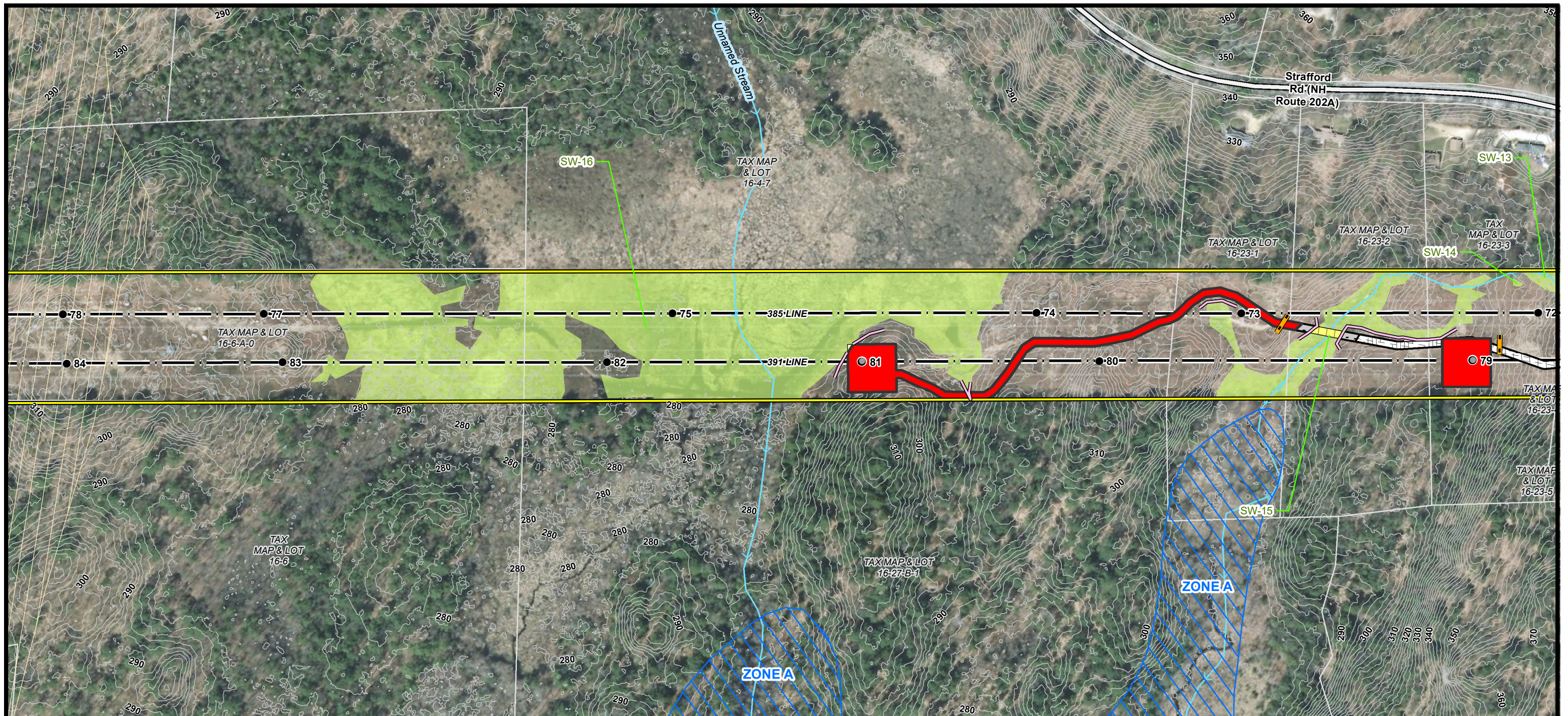
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1 inch = 200 feet



- Londonderry**
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 - UPLAND WORK PAD
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- Current Town: Strafford**
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 - FIELD DELINEATED WETLANDS
 - RAILROAD
 - TRANSMISSION LINE
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 - EVERSOURCE OWNED PROPERTY
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Rochester

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APRIL 24, 2019**

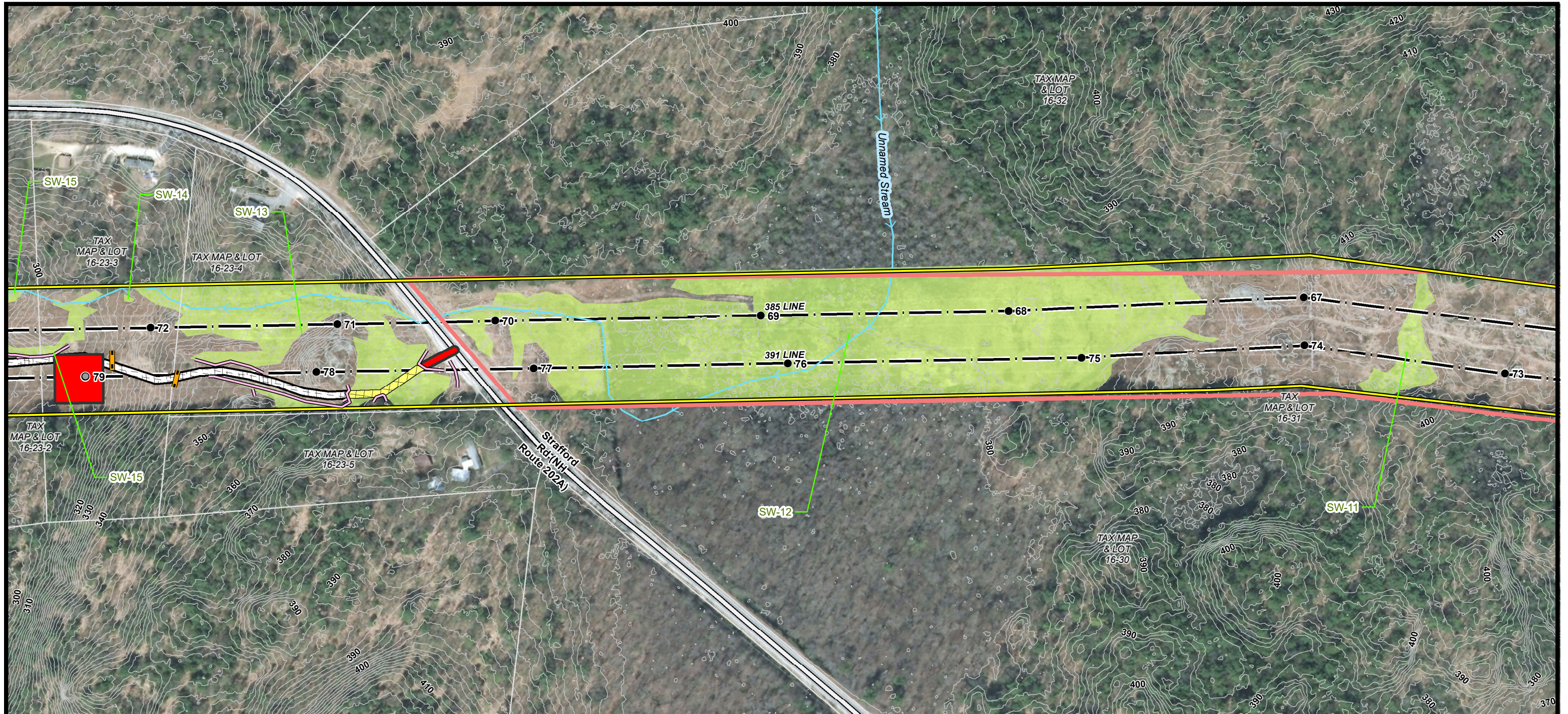
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NEW HAMPSHIRE
PAGE 8 OF 14

Project No.: 04.0190923.01

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Londonderry

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- All Features (Class A Surface Waters)
- AOT DISTURBANCE
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD

Current Town: Strafford

- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ROCK WALL
- NHD FLOWLINE
- SHORELAND ZONE
- NHDOT ROAD
- TOWN BOUNDARY
- PRIMARY ACCESS
- SECONDARY ACCESS
- APPROXIMATE ROW
- PARCEL BOUNDARY
- EVERSOURCE OWNED PROPERTY
- 2FT ELEVATION CONTOUR

BMP TYPE

- SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

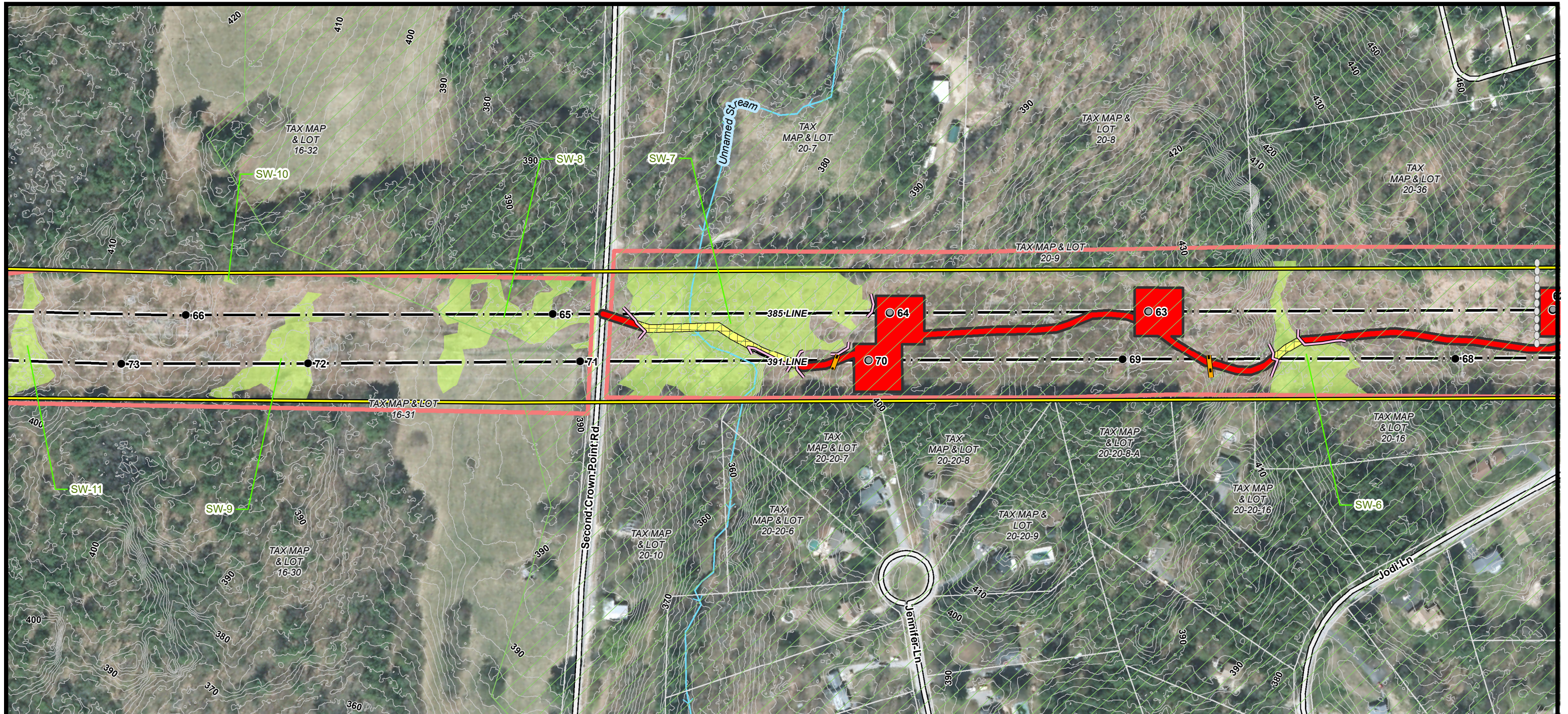
**SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
APRIL 24, 2019**

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 9 OF 14

Project No.: 04.0190923.01 1 inch = 200 feet

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Londonderry		Current Town: Strafford		Rochester	
▲ Local Potential Contamination Sources	● EXISTING STRUCTURE - NO PROPOSED WORK	— NHDOT ROAD	— TOWN BOUNDARY	— PRIMARY ACCESS	— SECONDARY ACCESS
— 2FT ELEVATION CONTOUR	● EXISTING STRUCTURE TO BE REPLACED	— RAILROAD	— TRANSMISSION LINE	— APPROXIMATE ROW	— PARCEL BOUNDARY
■ Wellhead Protection Areas (None)	■ FIELD DELINEATED WETLANDS	— TRANSMISSION LINE	— TRANSMISSION LINE	— EVERSOURCE OWNED PROPERTY	— 2FT ELEVATION CONTOUR
■ Watersheds with Chloride Impairments 2016	— RAILROAD	— TRANSMISSION LINE	— TRANSMISSION LINE	— 2FT ELEVATION CONTOUR	
■ FEMA FIRM Special Flood Hazard Areas	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ Water Supply Intake Protection Areas (None)	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ Surface Waters with Impairments 2016 with Quarter Mile Buffer	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ Outstanding Resource Water Watersheds	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ Lakes with a Quarter Mile Buffer	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ Groundwater Classification Areas GAA (None Present)	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ Groundwater Classification Areas GA2 (None Present)	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
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■ Designated Rivers Quartermile Buffer	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ All Features (Class A Surface Waters)	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ AOT DISTURBANCE	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ GRAVEL WORK PAD	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
■ UPLAND WORK PAD	— TRANSMISSION LINE	— TRANSMISSION LINE	— TRANSMISSION LINE		
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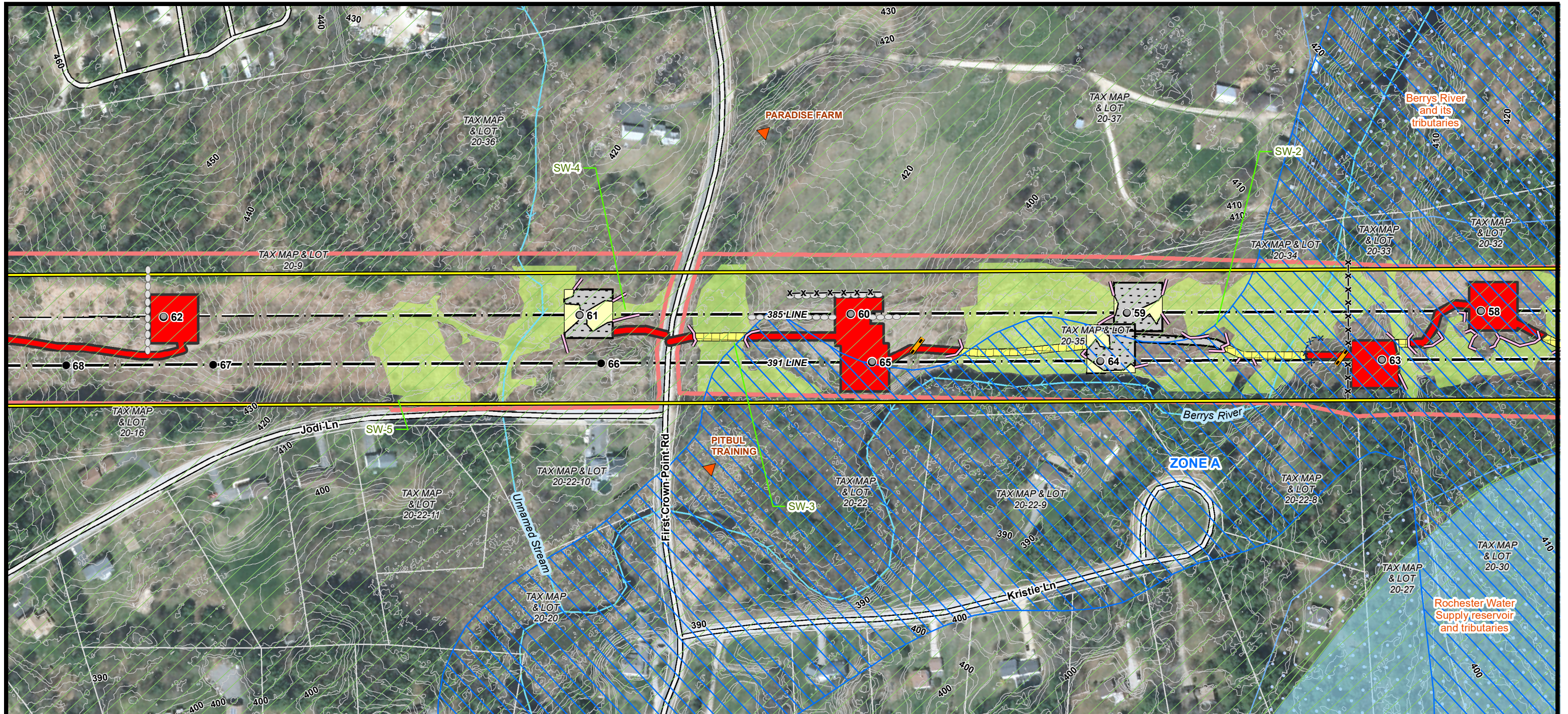
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<p>Local Potential Contamination Sources</p> <ul style="list-style-type: none"> ▲ Local Potential Contamination Sources ○ EXISTING STRUCTURE - NO PROPOSED WORK ○ EXISTING STRUCTURE TO BE REPLACED ■ TOWN BOUNDARY ■ FIELD DELINEATED WETLANDS ■ WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016 ■ FEMA FIRM SPECIAL FLOOD HAZARD AREAS ■ WATER SUPPLY INTAKE PROTECTION AREAS (NONE) ■ SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER ■ OUTSTANDING RESOURCE WATER WATERSHEDS ■ LAKES WITH A QUARTER MILE BUFFER ■ GROUNDWATER CLASSIFICATION AREAS GAA (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA2 (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA1 (NONE PRESENT) ■ DESIGNATED RIVERS QUARTERMILE BUFFER ■ ALL FEATURES (CLASS A SURFACE WATERS) ■ AOT DISTURBANCE ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD 	<p>Current Town: Strafford</p> <ul style="list-style-type: none"> ○ EXISTING STRUCTURE - NO PROPOSED WORK ○ EXISTING STRUCTURE TO BE REPLACED ■ TOWN BOUNDARY ■ FIELD DELINEATED WETLANDS ■ WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016 ■ FEMA FIRM SPECIAL FLOOD HAZARD AREAS ■ WATER SUPPLY INTAKE PROTECTION AREAS (NONE) ■ SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER ■ OUTSTANDING RESOURCE WATER WATERSHEDS ■ LAKES WITH A QUARTER MILE BUFFER ■ GROUNDWATER CLASSIFICATION AREAS GAA (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA2 (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA1 (NONE PRESENT) ■ DESIGNATED RIVERS QUARTERMILE BUFFER ■ ALL FEATURES (CLASS A SURFACE WATERS) ■ AOT DISTURBANCE ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD 	<p>Current Town: Strafford</p> <ul style="list-style-type: none"> ○ EXISTING STRUCTURE - NO PROPOSED WORK ○ EXISTING STRUCTURE TO BE REPLACED ■ TOWN BOUNDARY ■ FIELD DELINEATED WETLANDS ■ WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016 ■ FEMA FIRM SPECIAL FLOOD HAZARD AREAS ■ WATER SUPPLY INTAKE PROTECTION AREAS (NONE) ■ SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER ■ OUTSTANDING RESOURCE WATER WATERSHEDS ■ LAKES WITH A QUARTER MILE BUFFER ■ GROUNDWATER CLASSIFICATION AREAS GAA (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA2 (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA1 (NONE PRESENT) ■ DESIGNATED RIVERS QUARTERMILE BUFFER ■ ALL FEATURES (CLASS A SURFACE WATERS) ■ AOT DISTURBANCE ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD 	<p>Rochester</p> <ul style="list-style-type: none"> ○ EXISTING STRUCTURE - NO PROPOSED WORK ○ EXISTING STRUCTURE TO BE REPLACED ■ TOWN BOUNDARY ■ FIELD DELINEATED WETLANDS ■ WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016 ■ FEMA FIRM SPECIAL FLOOD HAZARD AREAS ■ WATER SUPPLY INTAKE PROTECTION AREAS (NONE) ■ SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER ■ OUTSTANDING RESOURCE WATER WATERSHEDS ■ LAKES WITH A QUARTER MILE BUFFER ■ GROUNDWATER CLASSIFICATION AREAS GAA (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA2 (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA1 (NONE PRESENT) ■ DESIGNATED RIVERS QUARTERMILE BUFFER ■ ALL FEATURES (CLASS A SURFACE WATERS) ■ AOT DISTURBANCE ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD 	<p>NOTES</p> <ol style="list-style-type: none"> 1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015. 2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY. 3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", "FEMA FIRM SPECIAL FLOOD HAZARD ZONES," AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE. 4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY. 5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018 AND VERIFIED BY GZA IN 2019. 6. "2FT ELEVATION CONTOURS" WERE GENERATED USING LIDAR DATA FROM NH GRANIT CLEARINGHOUSE (CONNECTICUT RIVER WATERSHED 2015 AND COASTAL NEW HAMPSHIRE 2011). 7. AOT SCREENING LAYERS WERE PROVIDED BY THE NHDES DRINKING WATER AND GROUNDWATER BUREAU.
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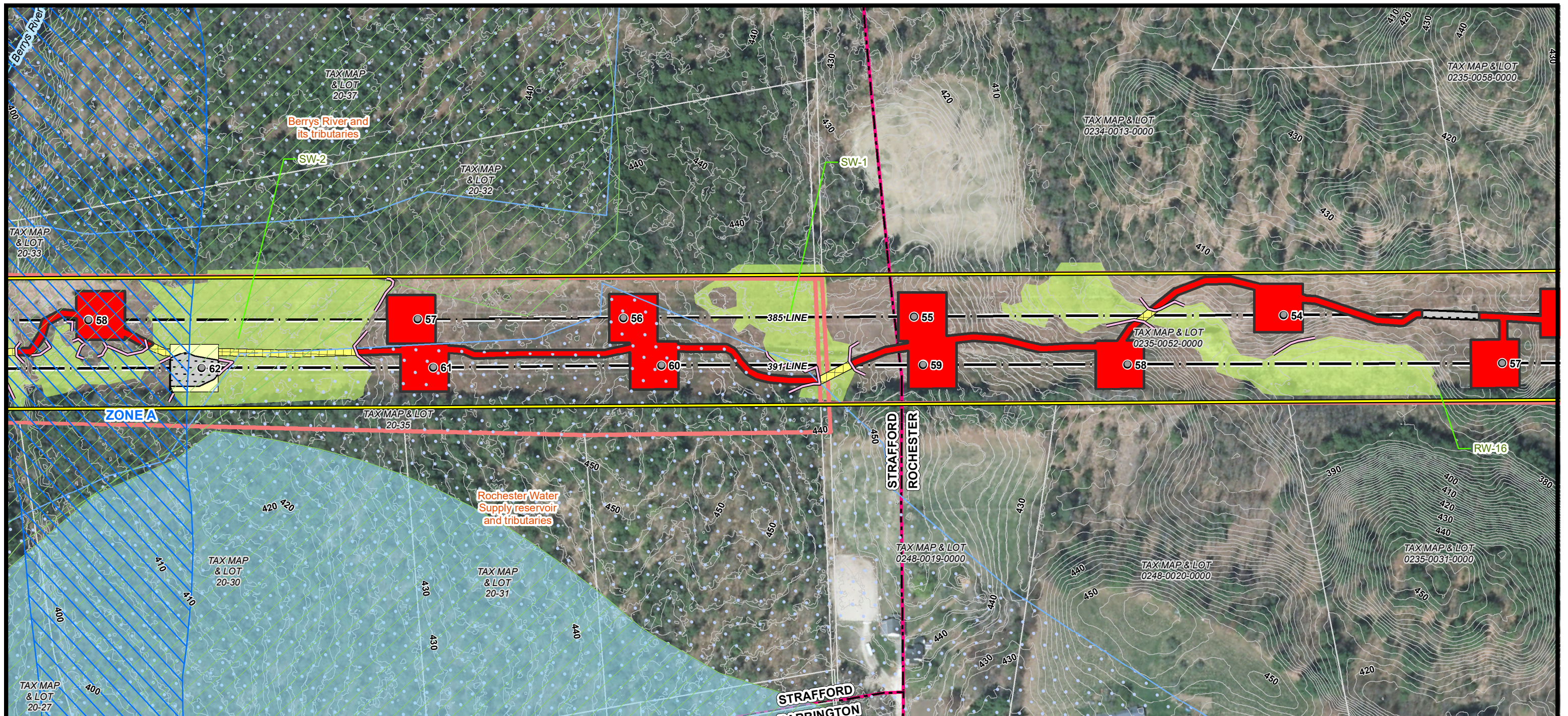
AUBURN, CHESTER, CANDIA, RAYMOND,
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NEW HAMPSHIRE
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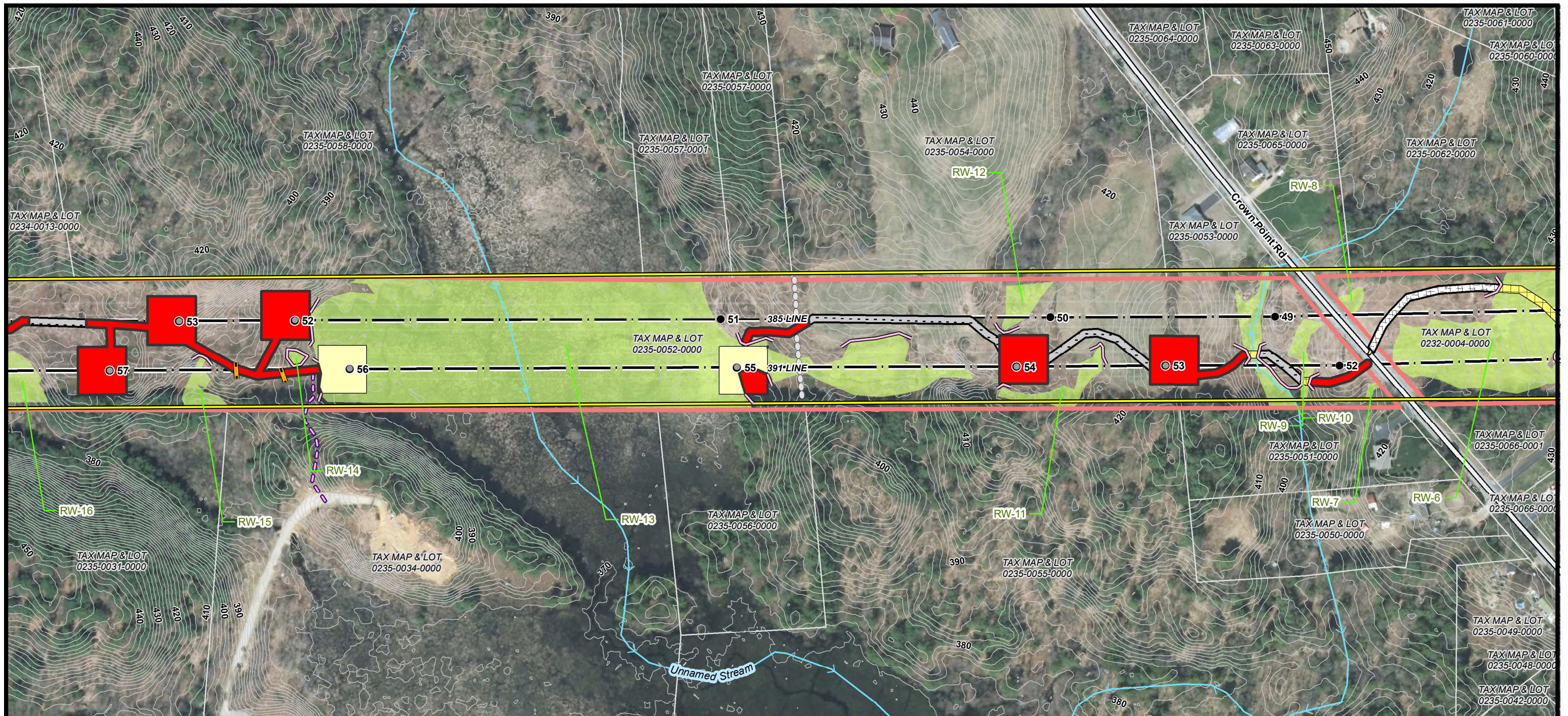
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Current Town: Rochester

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Rochester →

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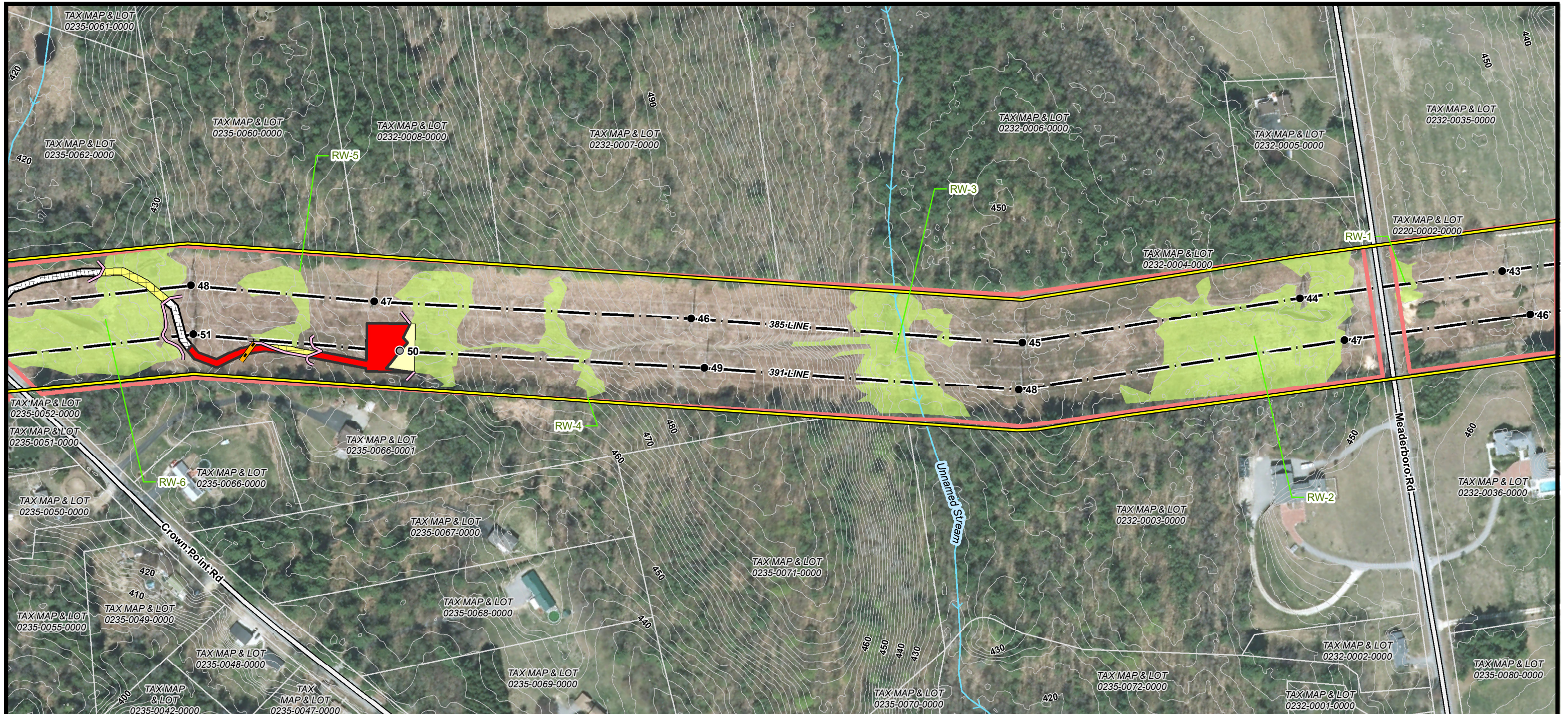
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CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY. CONSTRUCTION ACTIVITIES SHALL OCCUR DURING PERIODS OF LOW FLOW.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. ALL OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ALL ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE SWAMP MATS WHERE REQUIRED.
8. ALL LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. SWAMP MATS WILL BE USED ALONG ALL ACCESS ROUTES WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF SWAMP MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
15. CABLE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
16. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
17. ALL SWAMP MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
18. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM.
19. ALL TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION. NEW ENGLAND EROSION CONTROL/RESTORATION MIX, AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST, MA 01002, 413-548-8000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INUNDATED, AS NECESSARY.
20. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
21. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
22. WHERE OPTIMAL TURTLE BREEDING AREAS OVERLAP WITH DISTURBANCE (AS DETERMINED BY AN ENVIRONMENTAL MONITOR), MINERAL SOILS WILL BE SCARIFIED TO ALLEVIATE COMPACTION AND BECOME MORE SUITED FOR TURTLE BREEDING.

WINTER CONSTRUCTION NOTES

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

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

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE WETLAND DATA. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE DELINEATED BY TIGHE AND BOND IN 2018, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," JANUARY 2012. WETLANDS WERE REVIEWED BY GZA GEOENVIRONMENTAL, INC. IN JANUARY AND FEBRUARY 2019.
3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS ON FEBRUARY 6, 12, AND 15, 2019 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 1997, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ANDANGERED WILDLIFE PROGRAM.
4. GZA PERFORMED A WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999, IN THE TOWN OF STRAFFORD.
5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
6. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
7. IN ACCORANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
8. ALL AREAS SHALL BE STABILIZED WITH 45 DAYS OF INITIAL DISTURBANCE.
9. IN THE EVENT THAT A RARE OR THREATENED SPECIES IS OBSERVED, THE NEW HAMPSHIRE FISH AND GAME AND NEW HAMPSHIRE NATURAL HERITAGE BUREAU WILL BE NOTIFIED. TURTLE NESTING SEASON EXTENDS FROM LATE MAY THROUGH THE BEGINNING OF JULY. IF WOOD, BLANDING'S OR SPOTTED TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, CONTACT MELISSA DOPERALSKI AT 603-271-1738 OR JOSH MEGYESY AT 603-271-1125 FOR FURTHER INSTRUCTIONS. OBSERVATIONS OF NORTHERN BLACK RACER SNAKES SEEN IN ANY AREA FROM THE END OF SEPTEMBER THROUGH THE MONTH OF APRIL MUST BE IMMEDIATELY REPORTED TO THE NHFG DEPARTMENT (BRENDAN CLIFFORD AT 603-271-0463 OR MELISSA DOPERALSKI AT 603-271-1738). IF NORTHERN BLACK RACER IS FOUND IN A WORK AREA FROM NOVEMBER THROUGH THE MONTH OF APRIL, WORK SHALL IMMEDIATELY CEASE AND THE OBSERVATION MUST BE REPORTED TO THE NHFG (BRENDAN CLIFFORD OR MELISSA DOPERALSKI).



EROSION CONTROL NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION, AS NECESSARY.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
7. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER
NEW HAMPSHIRE

NOTES

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:  EVERSOURCE ENERGY	
PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 1 1 OF 2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 07/01/2019	PROJECT NO: 04.0190923.01	REVISION NO:	

Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

Straw wattles are burlap rolls filled with straw that trap sediment and interrupt water flow by reducing slope lengths.

Applications:

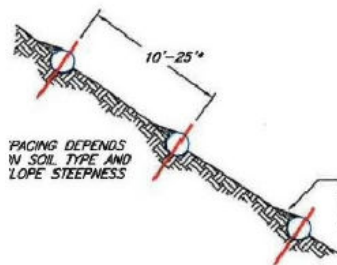
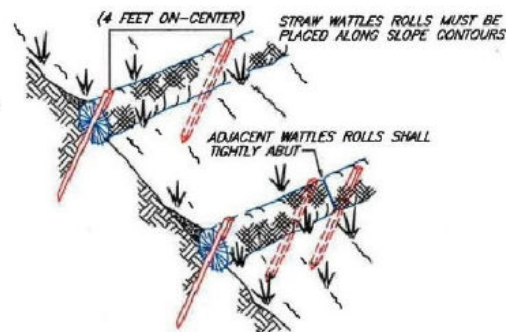
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

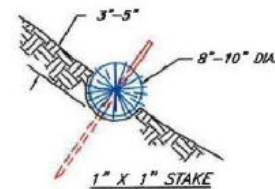
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

Spacing* - Dependent on slope length, soil steepness and soil type (general range 10 - 25').

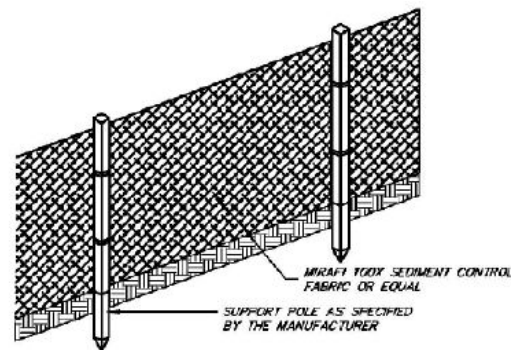
Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



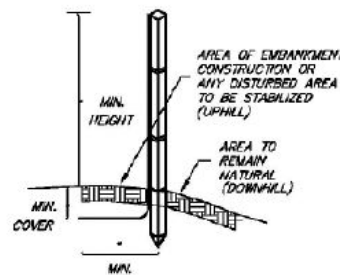
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



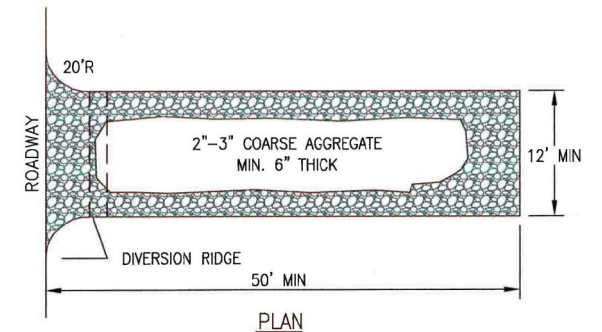
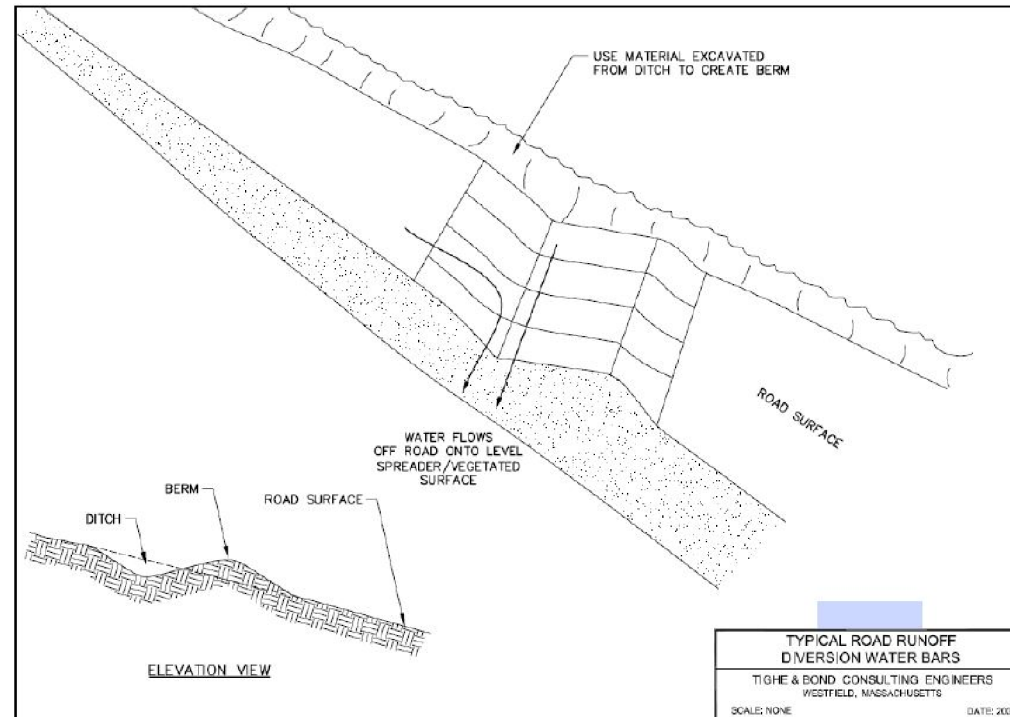
FRONT VIEW



SIDE VIEW

NOTES (SILT FENCE)

1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
3. POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS
5. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
7. FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

CONSTRUCTION ENTRANCE

NOT TO SCALE

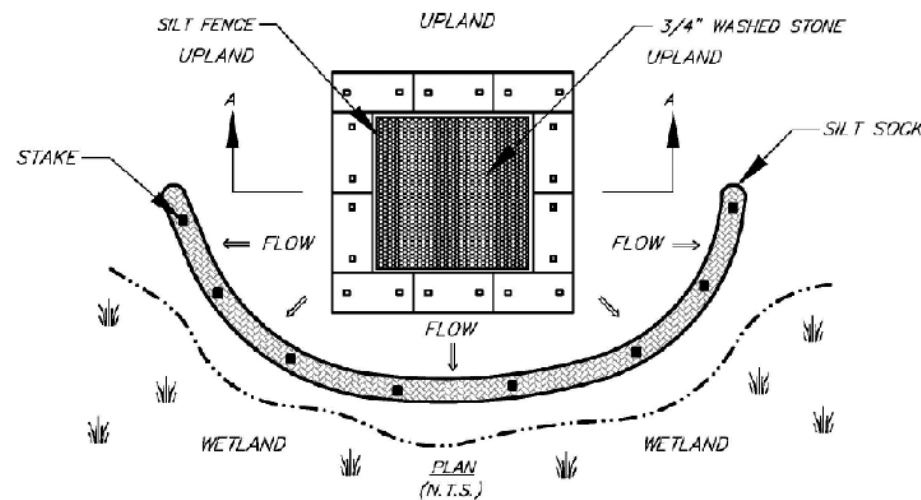
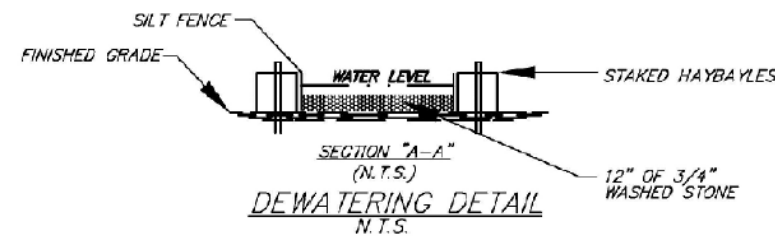


Figure 5



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391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER
NEW HAMPSHIRE

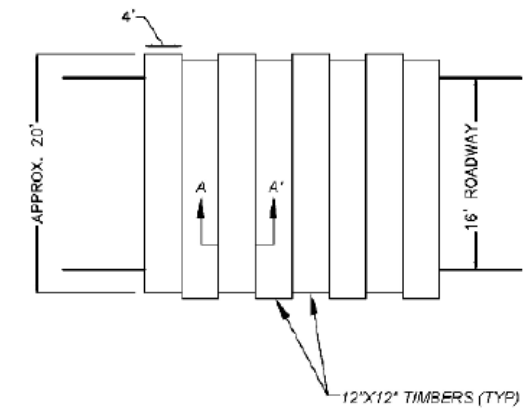
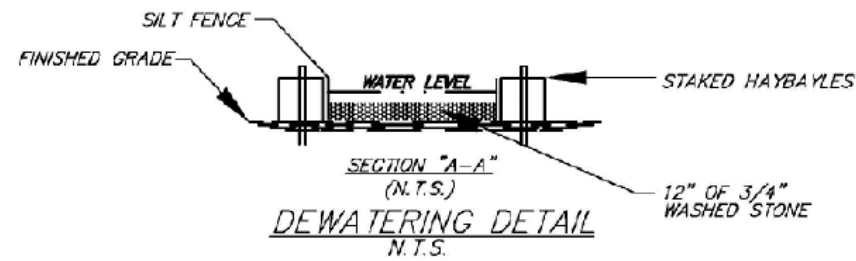
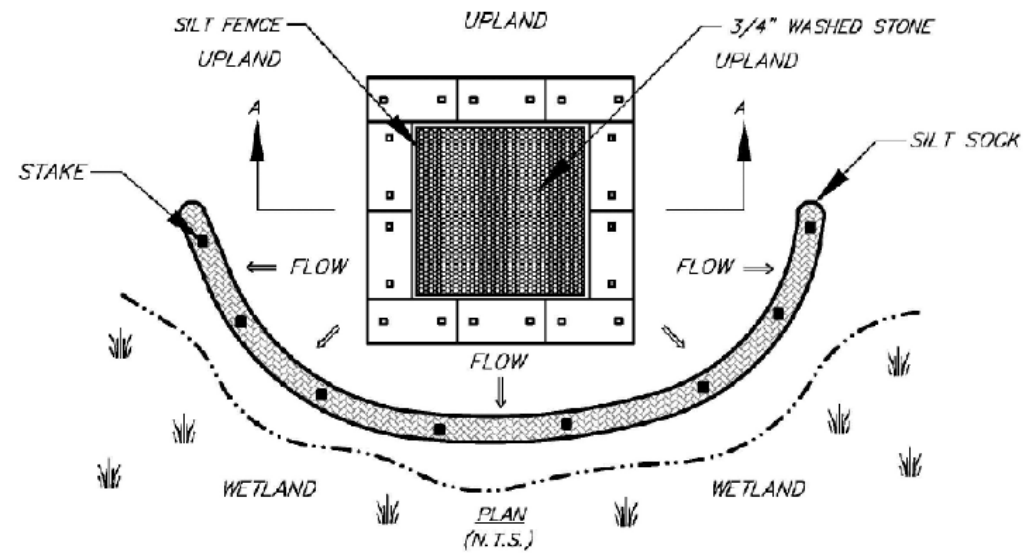
BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

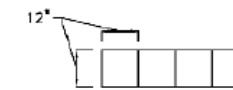
PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 04/24/2019	PROJECT NO: 04.0190923.01	REVISION NO:	

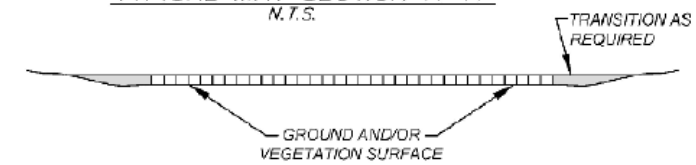
© 2019 - GZA GeoEnvironmental, Inc. P:\04\jobs\01909023\04_0190923_00 - Eversource MSA04_0190923_01 - 391 Transmission Line\Figures\MXD\391 373 385 Act NOTESHEET 3- BMPs 2.mxd, 4/24/2019, 1:33:43 PM, lindsey.white



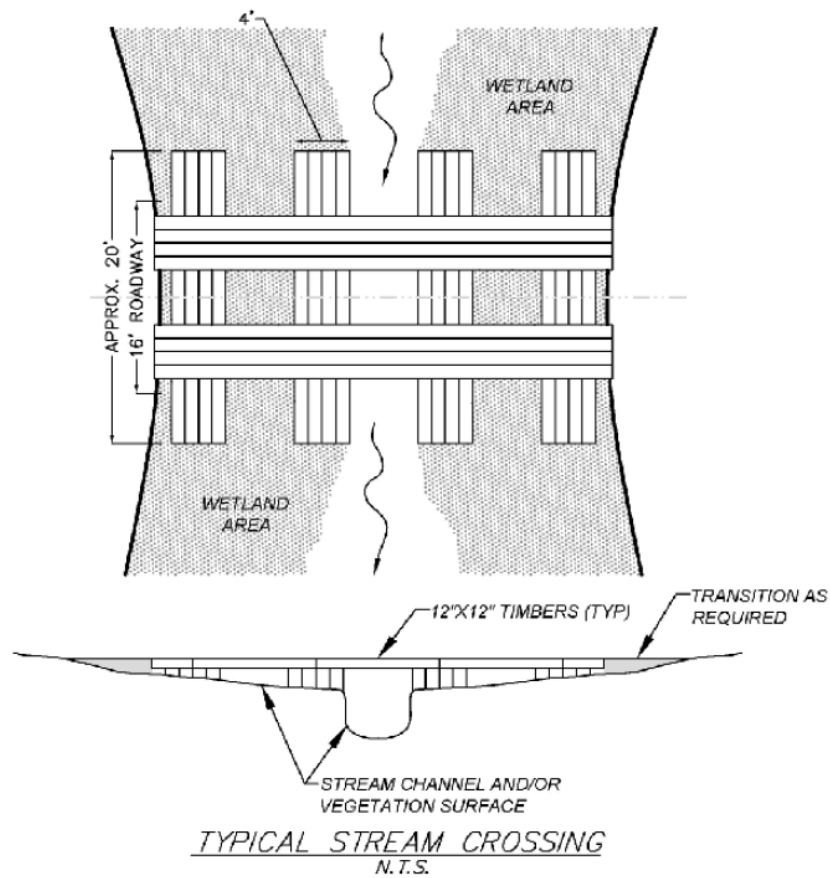
TYPICAL SWAMP MAT PLAN VIEW
N.T.S.



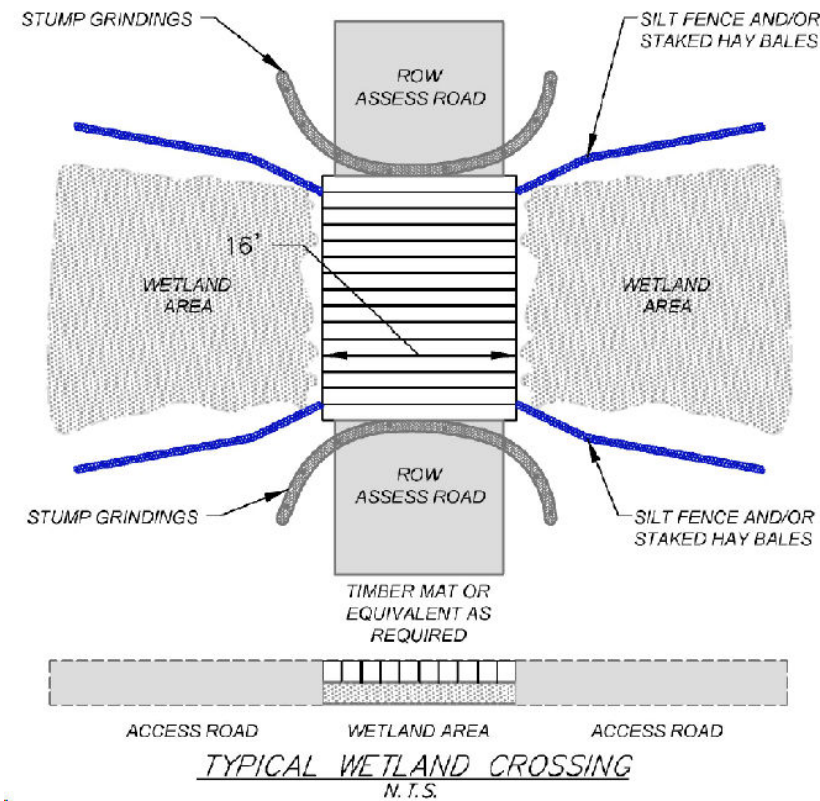
TYPICAL MAT SECTION A-A
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL
N.T.S.



TYPICAL STREAM CROSSING
N.T.S.



TYPICAL WETLAND CROSSING
N.T.S.

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391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER
NEW HAMPSHIRE

BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
EVERSOURCE
ENERGY

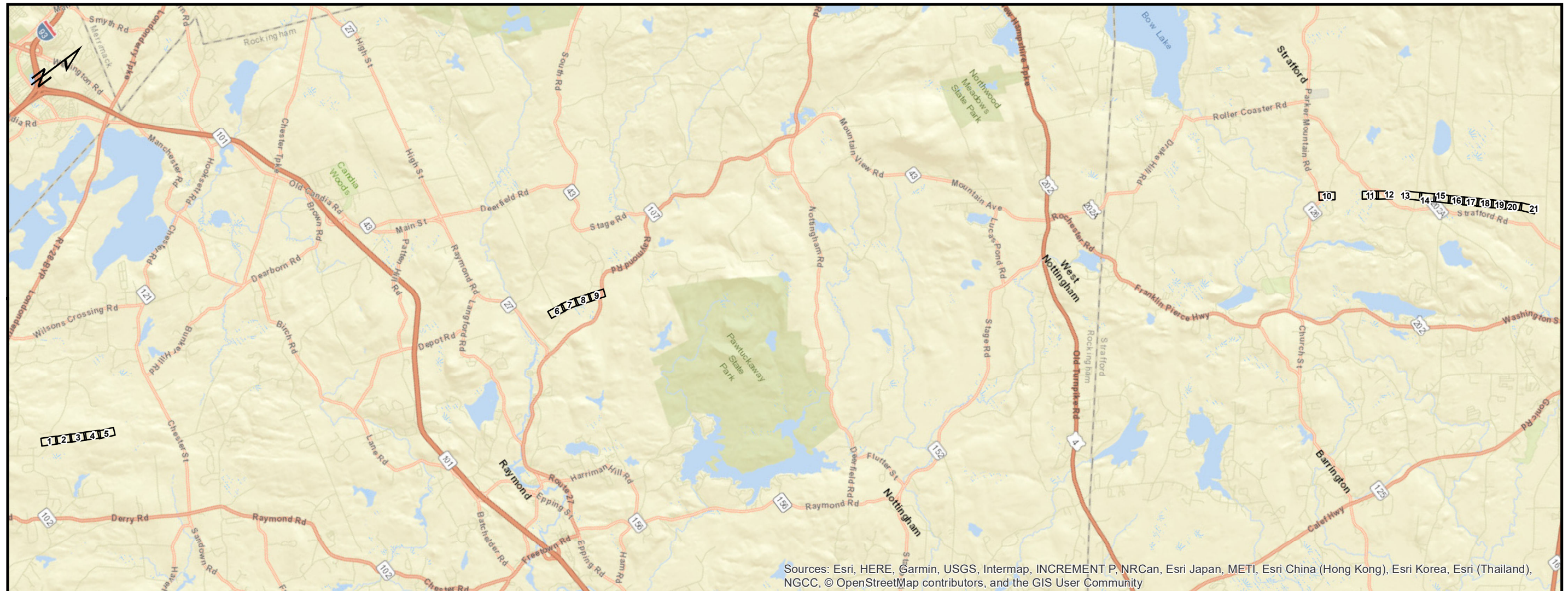
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DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 04/24/2019	PROJECT NO. 04.0190923.01	REVISION NO.	

391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS

AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER,
NEW HAMPSHIRE

4/26/2019



PREPARED FOR



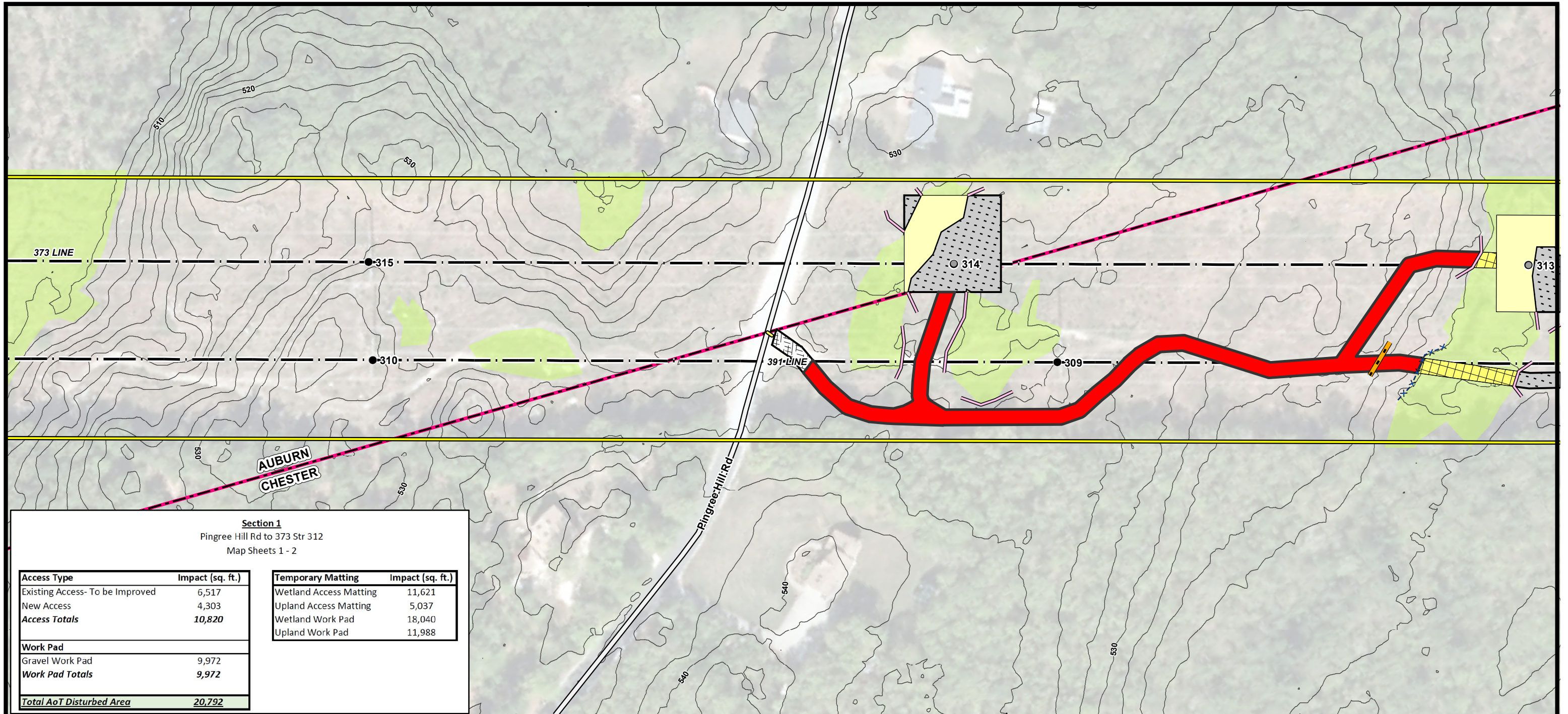
INDEX OF FIGURES

1 inch = 10,517 feet

- T1: TITLE SHEET
- 1-21: MAP SHEETS
- S1: NOTES
- S2: DETAILS
- S3: DETAILS (CONTINUED)

PREPARED BY





Section 1
Pingree Hill Rd to 373 Str 312
Map Sheets 1 - 2

Access Type	Impact (sq. ft.)
Existing Access- To be Improved	6,517
New Access	4,303
Access Totals	10,820

Temporary Matting	Impact (sq. ft.)
Wetland Access Matting	11,621
Upland Access Matting	5,037
Wetland Work Pad	18,040
Upland Work Pad	11,988

Work Pad	Impact (sq. ft.)
Gravel Work Pad	9,972
Work Pad Totals	9,972
Total AoT Disturbed Area	20,792



- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- X-X- FENCE
- FENCE GATE
- ○ ○ ROCK WALL

- Current Town: Auburn/Chester**
- NHD FLOWLINE
 - SHORELAND ZONE
 - BMP TYPE**
 - X-X- SILT FENCE
 - STRAW WATTLE
 - WATER BAR
 - ACCESS TYPE**
 - EXISTING-IMPROVED
 - UPLAND MATTING
 - WETLAND ACCESS MATTING
 - NHDOT ROAD
 - TOWN BOUNDARY

NOTES:

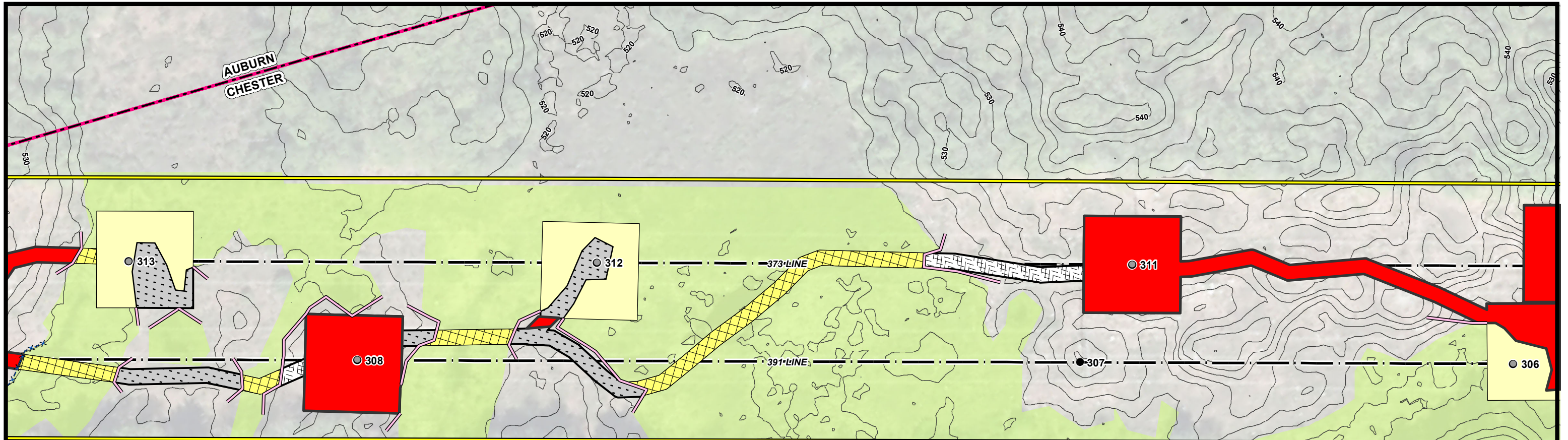
1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015.
2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY.
3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE.
4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY.
5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018 AND VERIFIED BY GZA IN 2019.
6. "2FT ELEVATION CONTOURS" WERE GENERATED USING LIDAR DATA FROM NH GRANIT CLEARINGHOUSE (CONNECTICUT RIVER WATERSHED 2015 AND COASTAL NEW HAMPSHIRE 2011).

**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 1 OF 21





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Pingree Hill Rd to 373 Str 312
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Access Type	Impact (sq. ft.)
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Upland Work Pad	11,988

Work Pad	Impact (sq. ft.)
Gravel Work Pad	9,972
Work Pad Totals	9,972

Total AoT Disturbed Area	20,792
---------------------------------	---------------

Section 2
Area A
373 Str 311 to 373 Str 305
Map Sheets 2-4

Access Type	Impact (sq. ft.)
Existing- To be improved	40,626
New Access	1,959
Access Totals	42,585

Temporary Matting	Impact (sq. ft.)
Wetland Access Matting	5,886
Upland Access Matting	0
Wetland Work Pad	9,003
Upland Work Pad	0

Work Pad	Impact (sq. ft.)
Gravel Work Pad	114,864
Work Pad Totals	114,864

Total AoT Disturbed Area	157,449
---------------------------------	----------------

* Exceeds 100,000 SF threshold



Current Town: Chester

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ROCK WALL

BMP TYPE

- SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

Current Town: Chester **Rochester**

NOTES:

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

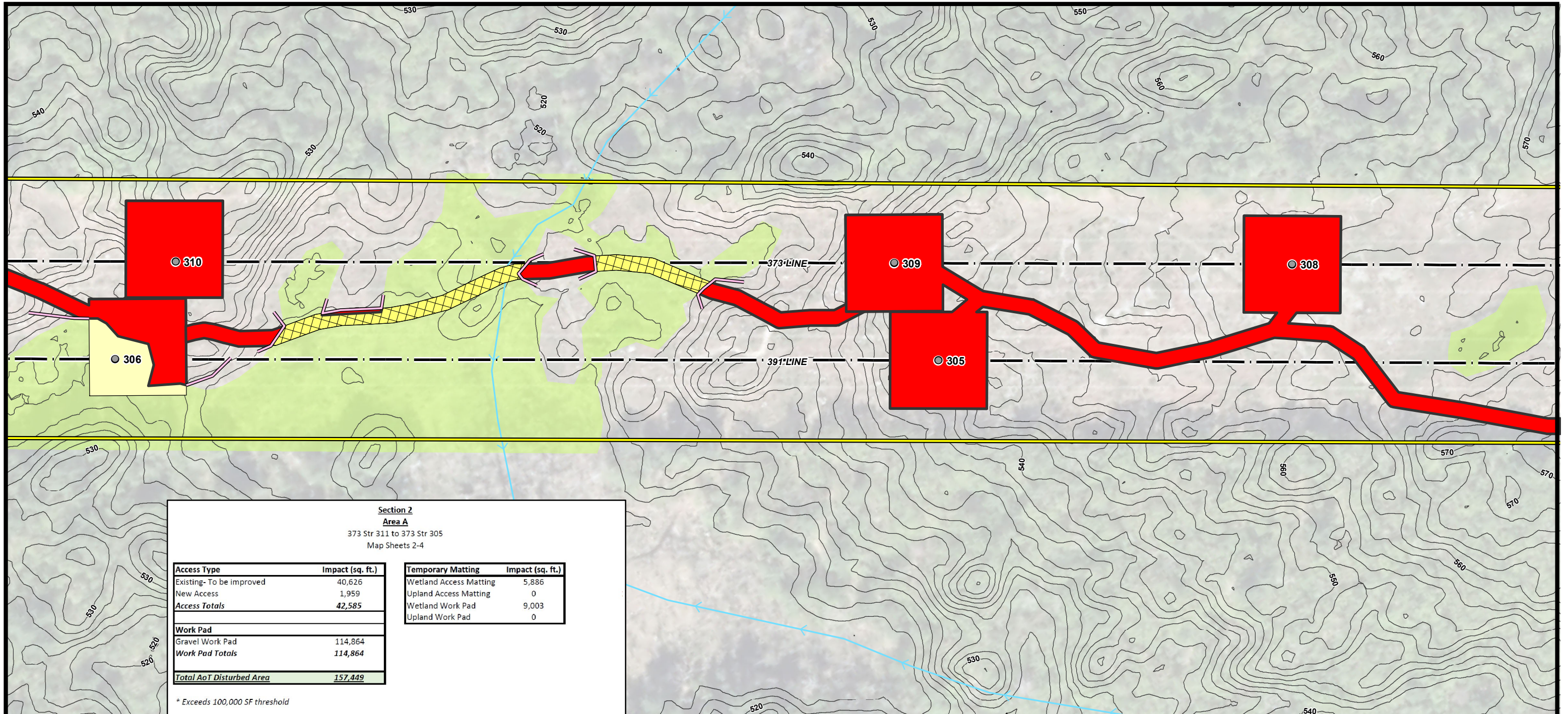
ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 2 OF 21

Project No.: 04.0190923.01 1 inch = 100 feet

EVERSOURCE ENERGY

GZA GeoEnvironmental, Inc.
Engineers and Scientists
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**Section 2
Area A**
373 Str 311 to 373 Str 305
Map Sheets 2-4

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	40,626	Wetland Access Matting	5,886
New Access	1,959	Upland Access Matting	0
Access Totals	42,585	Wetland Work Pad	9,003
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	114,864		
Work Pad Totals	114,864		
Total AoT Disturbed Area	157,449		

* Exceeds 100,000 SF threshold



Current Town: Chester

← Roches Londonderry Rochester →

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- X-X- FENCE
- FENCE GATE
- ○ ○ ROCK WALL

BMP TYPE

- NHD FLOWLINE
- SHORELAND ZONE
- X-X- SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

NOTES:

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3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE.
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

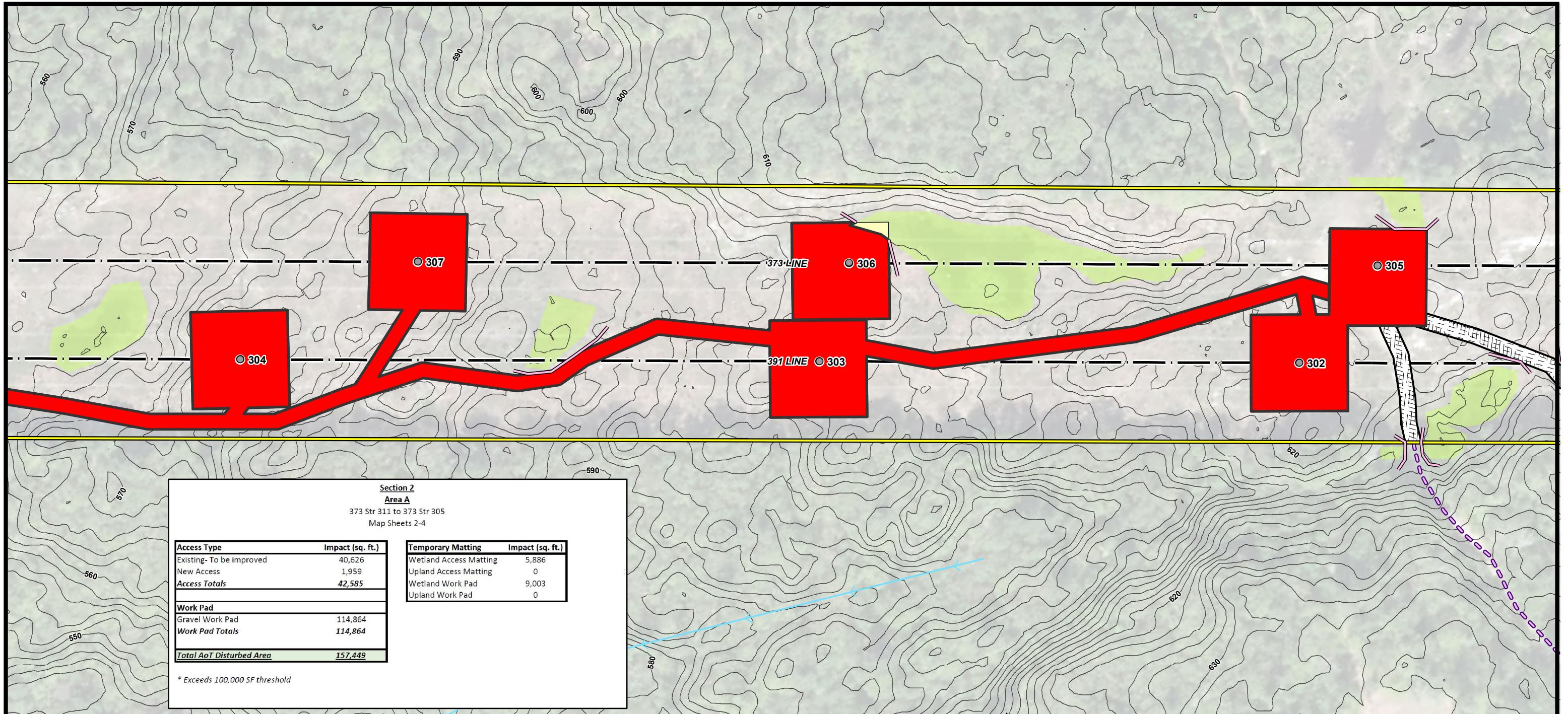
ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 3 OF 21

Project No.: 04.0190923.01 1 inch = 100 feet

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**Section 2
Area A**
373 Str 311 to 373 Str 305
Map Sheets 2-4

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	40,626	Wetland Access Matting	5,886
New Access	1,959	Upland Access Matting	0
Access Totals	42,585	Wetland Work Pad	9,003
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	114,864		
Work Pad Totals	114,864		
Total AoT Disturbed Area	157,449		

* Exceeds 100,000 SF threshold



Current Town: Chester

← Londonderry Rochester →

<ul style="list-style-type: none"> — 2FT ELEVATION CONTOURS — PRIMARY ACCESS ROAD — SECONDARY ACCESS ROAD — APPROXIMATE ROW ■ AOT DISTURBANCE AREA ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD ● EXISTING STRUCTURE - NO PROPOSED WORK ● EXISTING STRUCTURE TO BE REPLACED ■ FIELD DELINEATED WETLANDS — RAILROAD — TRANSMISSION LINE -X-X- FENCE — FENCE GATE ○ ○ ○ ROCK WALL 	<ul style="list-style-type: none"> → NHD FLOWLINE — SHORELAND ZONE BMP TYPE -X-X- SILT FENCE — STRAW WATTLE — WATER BAR ACCESS TYPE ■ EXISTING-IMPROVED ■ UPLAND MATTING ■ WETLAND ACCESS MATTING — NHDOT ROAD — TOWN BOUNDARY 	<p>NOTES:</p> <ol style="list-style-type: none"> 1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015. 2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY. 3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE. 4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY. 5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018 AND VERIFIED BY GZA IN 2019. 6. "2FT ELEVATION CONTOURS" WERE GENERATED USING LIDAR DATA FROM NH GRANIT CLEARINGHOUSE (CONNECTICUT RIVER WATERSHED 2015 AND COASTAL NEW HAMPSHIRE 2011).
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

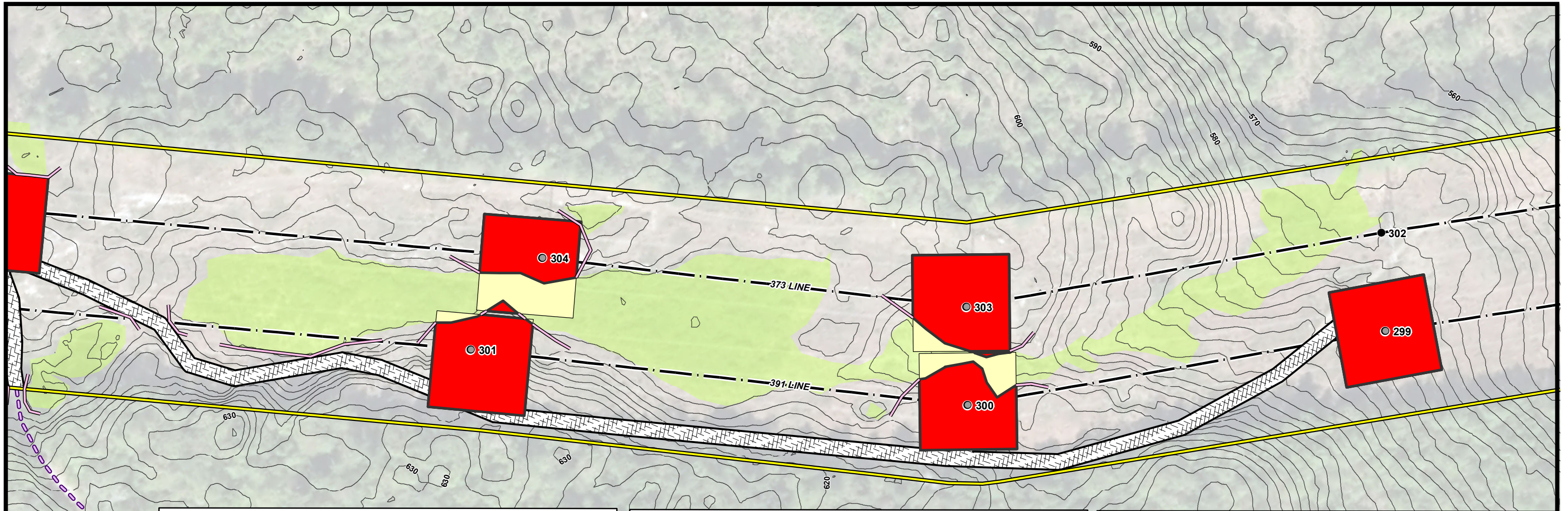
ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
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Project No.: 04.0190923.01 1 inch = 100 feet

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Section 3
373 Str 304 and 391 Str 301
Map Sheet 5

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	0	Wetland Access Matting	0
New Access	0	Upland Access Matting	0
Access Totals	0	Wetland Work Pad	4,080
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	15,920		
Work Pad Totals	15,920		
Total AoT Disturbed Area		15,920	

Section 4
373 Str 303 and 391 Str 300
Map Sheet 5

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	0	Wetland Access Matting	0
New Access	0	Upland Access Matting	0
Access Totals	0	Wetland Work Pad	3,072
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	16,928		
Work Pad Totals	16,928		
Total AoT Disturbed Area		16,928	

Section 5
391 Str 299
Map Sheet 5

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	0	Wetland Access Matting	0
New Access	0	Upland Access Matting	0
Access Totals	0	Wetland Work Pad	0
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	10,000		
Work Pad Totals	10,000		
Total AoT Disturbed Area		10,000	



Current Town: Chester

← Londonderry Rochester →
 — 2FT ELEVATION CONTOURS
 — PRIMARY ACCESS ROAD
 - - - SECONDARY ACCESS ROAD
 — APPROXIMATE ROW
 ■ AOT DISTURBANCE AREA
 ■ GRAVEL WORK PAD
 ■ UPLAND WORK PAD
 ■ WETLAND WORK PAD
 ● EXISTING STRUCTURE - NO PROPOSED WORK
 ○ EXISTING STRUCTURE TO BE REPLACED
 ■ FIELD DELINEATED WETLANDS
 — RAILROAD
 — TRANSMISSION LINE
 X-X FENCE
 — FENCE GATE
 ○ ○ ○ ROCK WALL

— NHD FLOWLINE
 — SHORELAND ZONE
BMP TYPE
 X-X SILT FENCE
 — STRAW WATTLE
 — WATER BAR
ACCESS TYPE
 ■ EXISTING-IMPROVED
 ■ UPLAND MATTING
 ■ WETLAND ACCESS MATTING
 — NHDOT ROAD
 ■ TOWN BOUNDARY

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

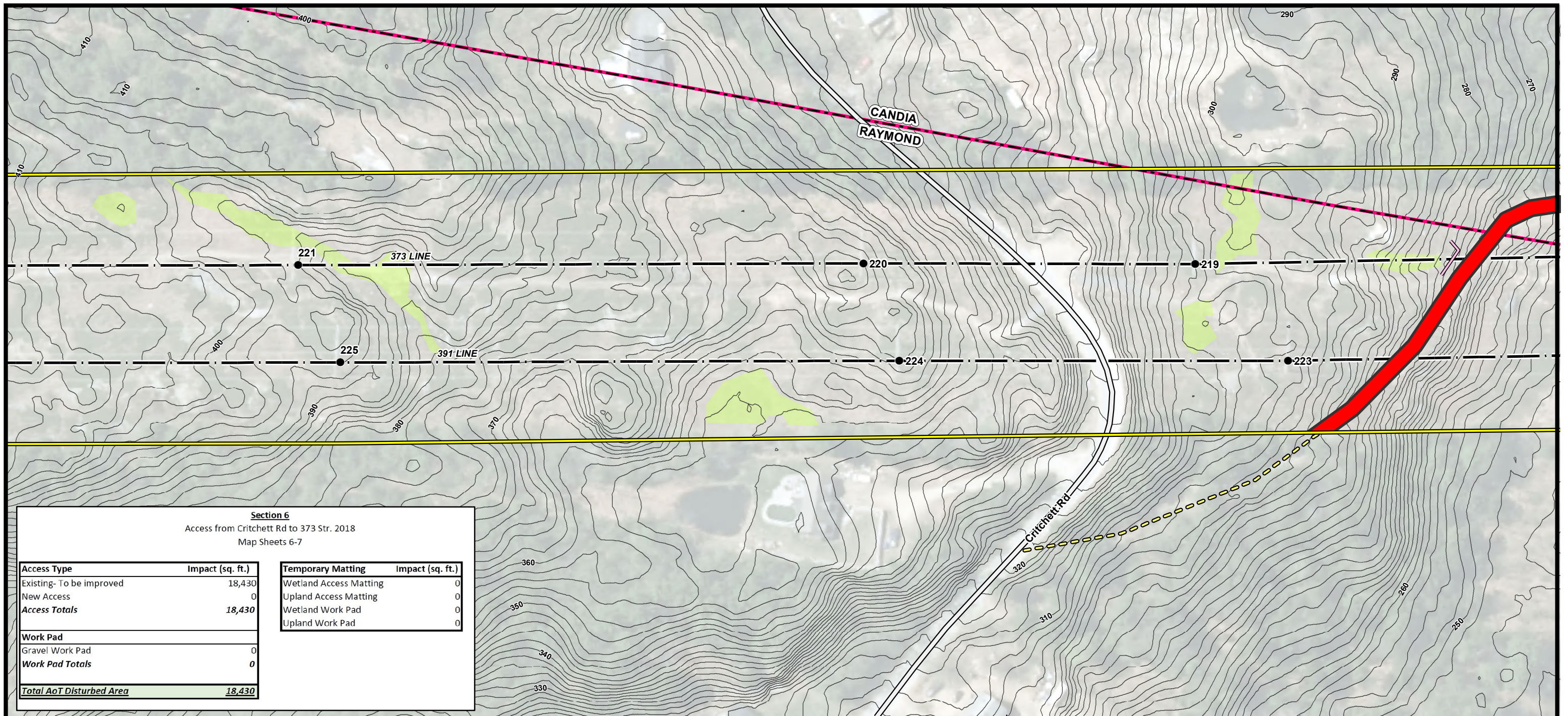
ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
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Project No.: 04.0190923.01 1 inch = 100 feet

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Section 6
Access from Critchett Rd to 373 Str. 2018
Map Sheets 6-7

Access Type	Impact (sq. ft.)
Existing- To be improved	18,430
New Access	0
Access Totals	18,430
Work Pad	
Gravel Work Pad	0
Work Pad Totals	0
Total AoT Disturbed Area	18,430

Temporary Matting	Impact (sq. ft.)
Wetland Access Matting	0
Upland Access Matting	0
Wetland Work Pad	0
Upland Work Pad	0



- Current Town: Candia/Raymond**
- 2FT ELEVATION CONTOURS
 - PRIMARY ACCESS ROAD
 - SECONDARY ACCESS ROAD
 - APPROXIMATE ROW
 - AOT DISTURBANCE AREA
 - GRAVEL WORK PAD
 - UPLAND WORK PAD
 - WETLAND WORK PAD
 - EXISTING STRUCTURE - NO PROPOSED WORK
 - EXISTING STRUCTURE TO BE REPLACED
 - FIELD DELINEATED WETLANDS
 - RAILROAD
 - TRANSMISSION LINE
 - X-X- FENCE
 - FENCE GATE
 - ○ ○ ROCK WALL

- NHD FLOWLINE
- SHORELAND ZONE
- BMP TYPE**
- X-X- SILT FENCE
- STRAW WATTLE
- WATER BAR
- ACCESS TYPE**
- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

NOTES:

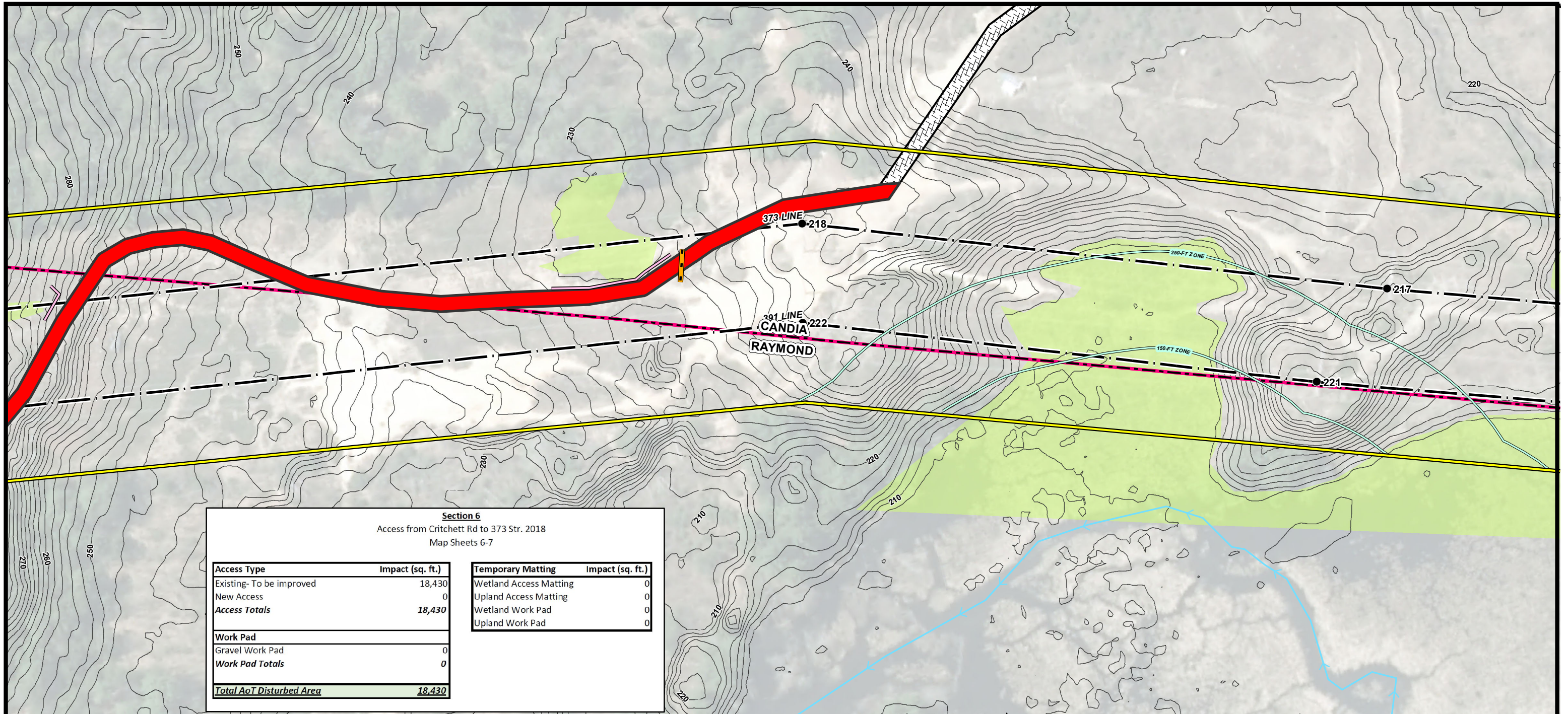
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
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Section 6
Access from Critchett Rd to 373 Str. 2018
Map Sheets 6-7

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	18,430	Wetland Access Matting	0
New Access	0	Upland Access Matting	0
Access Totals	18,430	Wetland Work Pad	0
Work Pad		Upland Work Pad	0
Gravel Work Pad	0		
Work Pad Totals	0		
Total AoT Disturbed Area	18,430		



Current Town: Candia/Raymond

Londonderry ← Rochester →

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- X-X- FENCE
- FENCE GATE
- ○ ○ ROCK WALL

BMP TYPE

- NHD FLOWLINE
- SHORELAND ZONE
- X-X- SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

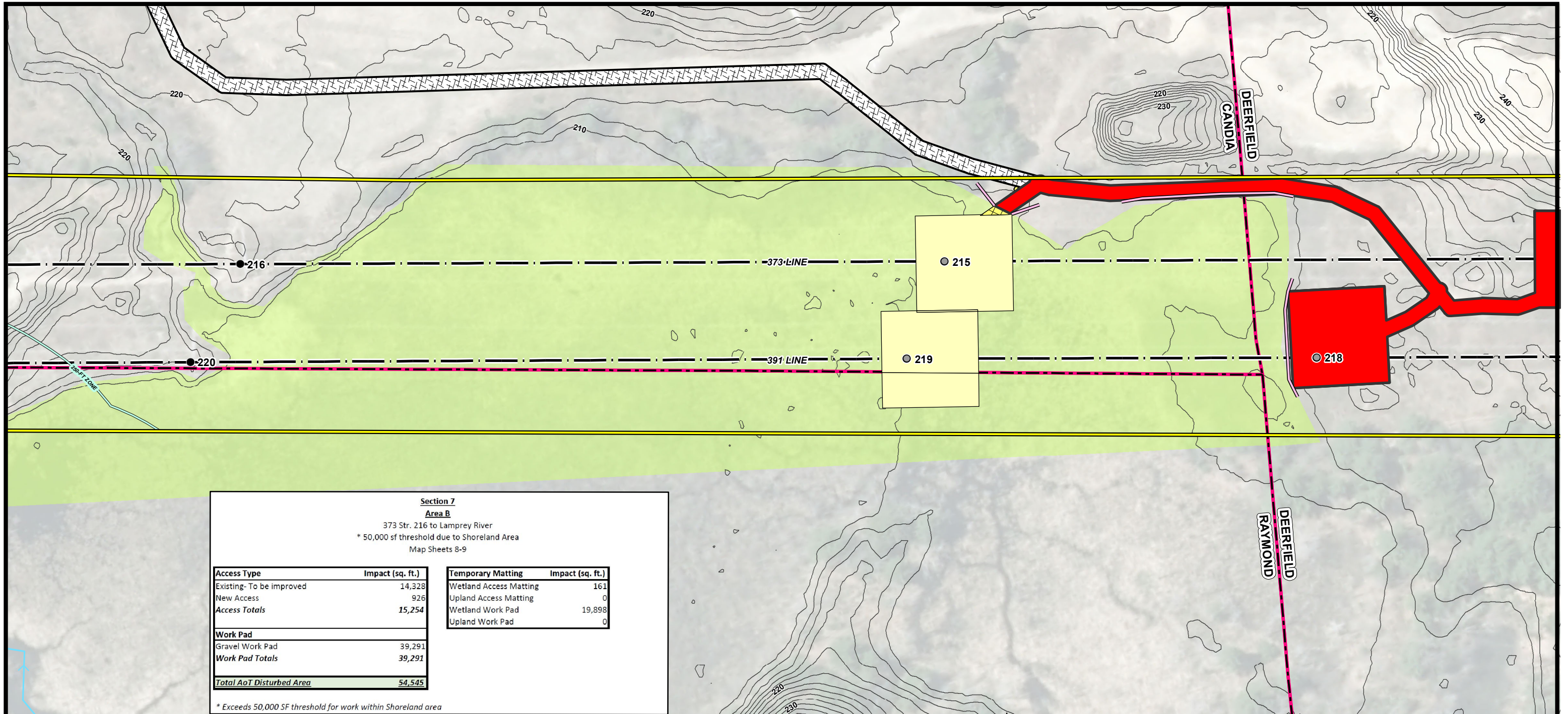
AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
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Project No.: 04.0190923.01

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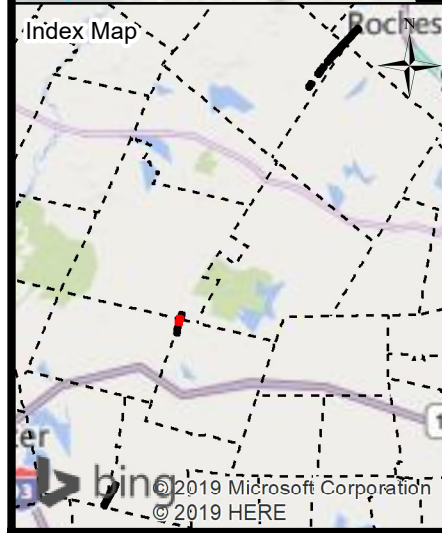
1 inch = 100 feet



**Section 7
Area B**
373 Str. 216 to Lamprey River
* 50,000 sf threshold due to Shoreland Area
Map Sheets 8-9

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	14,328	Wetland Access Matting	161
New Access	926	Upland Access Matting	0
Access Totals	15,254	Wetland Work Pad	19,898
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	39,291		
Work Pad Totals	39,291		
Total AoT Disturbed Area	54,545		

* Exceeds 50,000 SF threshold for work within Shoreland area



Current Town: Candia/Raymond/Deerfield

Legend:

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ROCK WALL
- NHD FLOWLINE
- SHORELAND ZONE
- BMP TYPE
- SILT FENCE
- STRAW WATTLE
- WATER BAR
- ACCESS TYPE
- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

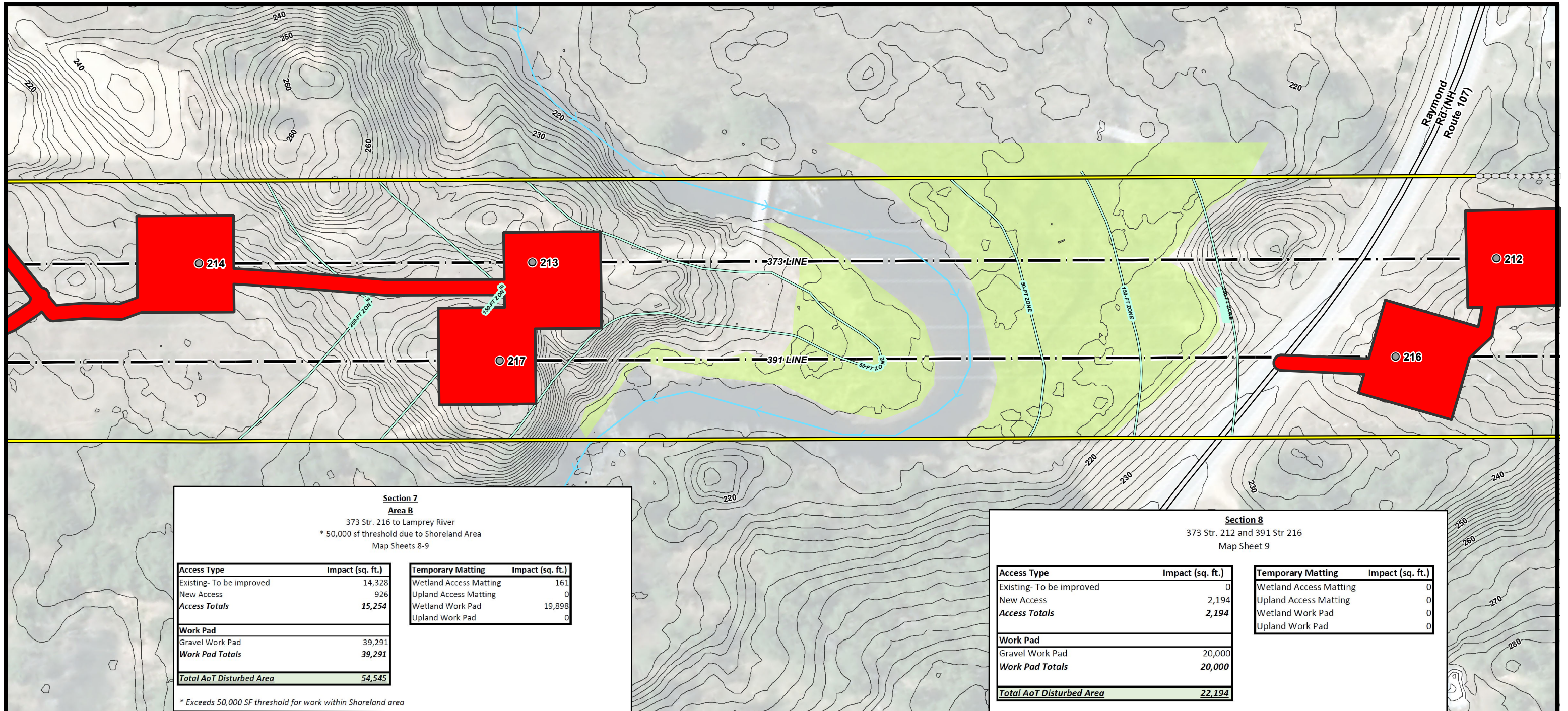
AUBURN, CHESTER, CANDIA, RAYMOND,
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NEW HAMPSHIRE
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Project No.: 04.0190923.01

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1 inch = 100 feet



Section 7
Area B
 373 Str. 216 to Lamprey River
 * 50,000 sf threshold due to Shoreland Area
 Map Sheets 8-9

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	14,328	Wetland Access Matting	161
New Access	926	Upland Access Matting	0
Access Totals	15,254	Wetland Work Pad	19,898
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	39,291		
Work Pad Totals	39,291		
Total AoT Disturbed Area	54,545		

* Exceeds 50,000 SF threshold for work within Shoreland area

Section 8
 373 Str. 212 and 391 Str 216
 Map Sheet 9

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	0	Wetland Access Matting	0
New Access	2,194	Upland Access Matting	0
Access Totals	2,194	Wetland Work Pad	0
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	20,000		
Work Pad Totals	20,000		
Total AoT Disturbed Area	22,194		



Current Town: Deerfield

— 2FT ELEVATION CONTOURS
— PRIMARY ACCESS ROAD
— SECONDARY ACCESS ROAD
— APPROXIMATE ROW
■ AOT DISTURBANCE AREA
□ GRAVEL WORK PAD
□ UPLAND WORK PAD
□ WETLAND WORK PAD
● EXISTING STRUCTURE - NO PROPOSED WORK
○ EXISTING STRUCTURE TO BE REPLACED
□ FIELD DELINEATED WETLANDS
— RAILROAD
— TRANSMISSION LINE
-X-X- FENCE
— FENCE GATE
○ ROCK WALL

— NHD FLOWLINE
— SHORELAND ZONE
BMP TYPE
-X-X- SILT FENCE
— STRAW WATTLE
— WATER BAR
ACCESS TYPE
□ EXISTING-IMPROVED
□ UPLAND MATTING
□ WETLAND ACCESS MATTING
— NHDOT ROAD
— TOWN BOUNDARY

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**373, 391, & 385 TRANSMISSION LINE
 STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
 APRIL 26, 2019

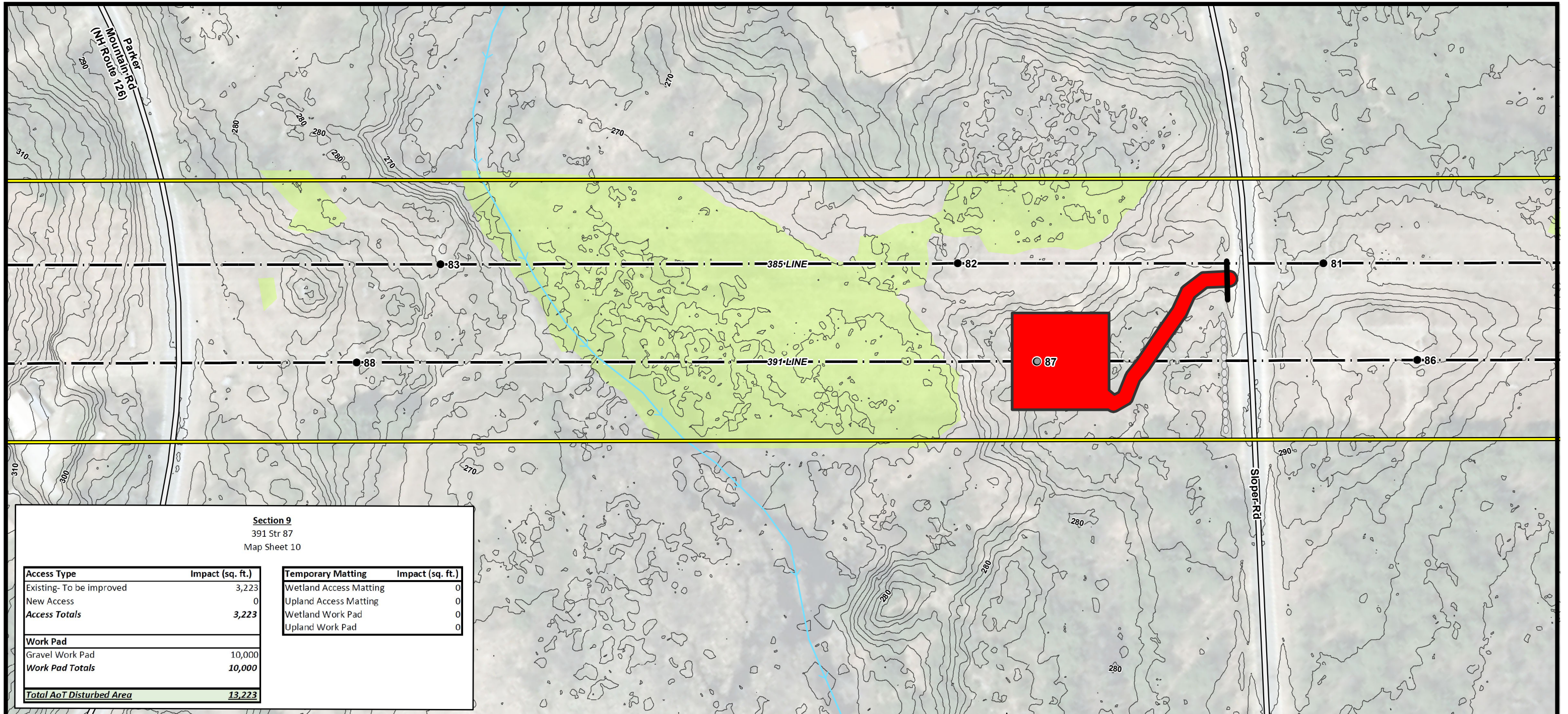
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1 inch = 100 feet



Section 9
391 Str 87
Map Sheet 10

Access Type	Impact (sq. ft.)
Existing- To be improved	3,223
New Access	0
Access Totals	3,223
Work Pad	
Gravel Work Pad	10,000
Work Pad Totals	10,000
Total AoT Disturbed Area	13,223

Temporary Matting	Impact (sq. ft.)
Wetland Access Matting	0
Upland Access Matting	0
Wetland Work Pad	0
Upland Work Pad	0



Current Town: *Strafford* *Rochester* →

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ○ ○ ROCK WALL

Current Town: *Strafford*

- NHD FLOWLINE
- SHORELAND ZONE

BMP TYPE

- SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

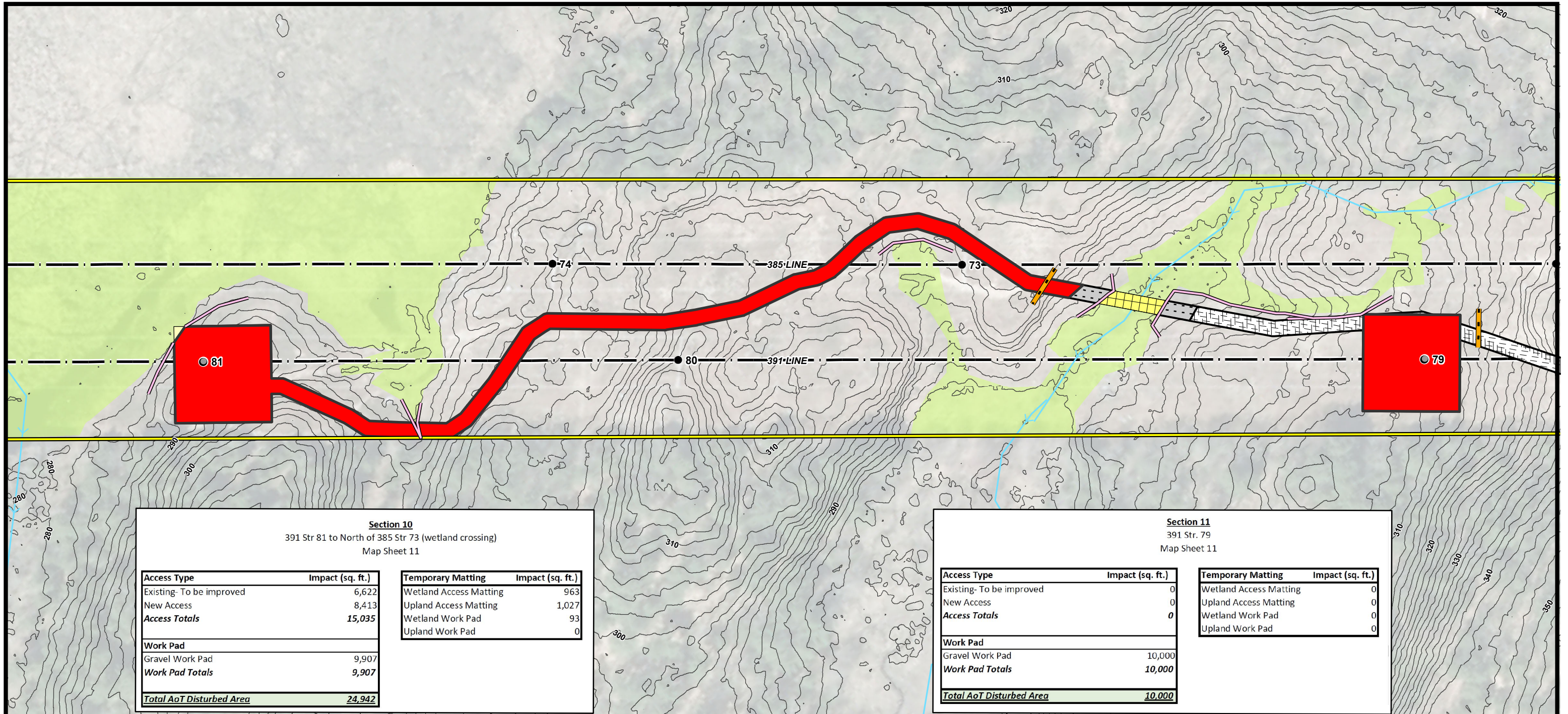
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NEW HAMPSHIRE
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1 inch = 100 feet



Current Town: Strafford

— 2FT ELEVATION CONTOURS
 — PRIMARY ACCESS ROAD
 — SECONDARY ACCESS ROAD
 — APPROXIMATE ROW
 ■ AOT DISTURBANCE AREA
 ■ GRAVEL WORK PAD
 ■ UPLAND WORK PAD
 ■ WETLAND WORK PAD
 ● EXISTING STRUCTURE - NO PROPOSED WORK
 ● EXISTING STRUCTURE TO BE REPLACED
 ■ FIELD DELINEATED WETLANDS
 — RAILROAD
 — TRANSMISSION LINE
 X-X FENCE
 — FENCE GATE
 ○ ○ ○ ROCK WALL

— NHD FLOWLINE
 — SHORELAND ZONE
BMP TYPE
 X-X SILT FENCE
 — STRAW WATTLE
 — WATER BAR
ACCESS TYPE
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 ■ UPLAND MATTING
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

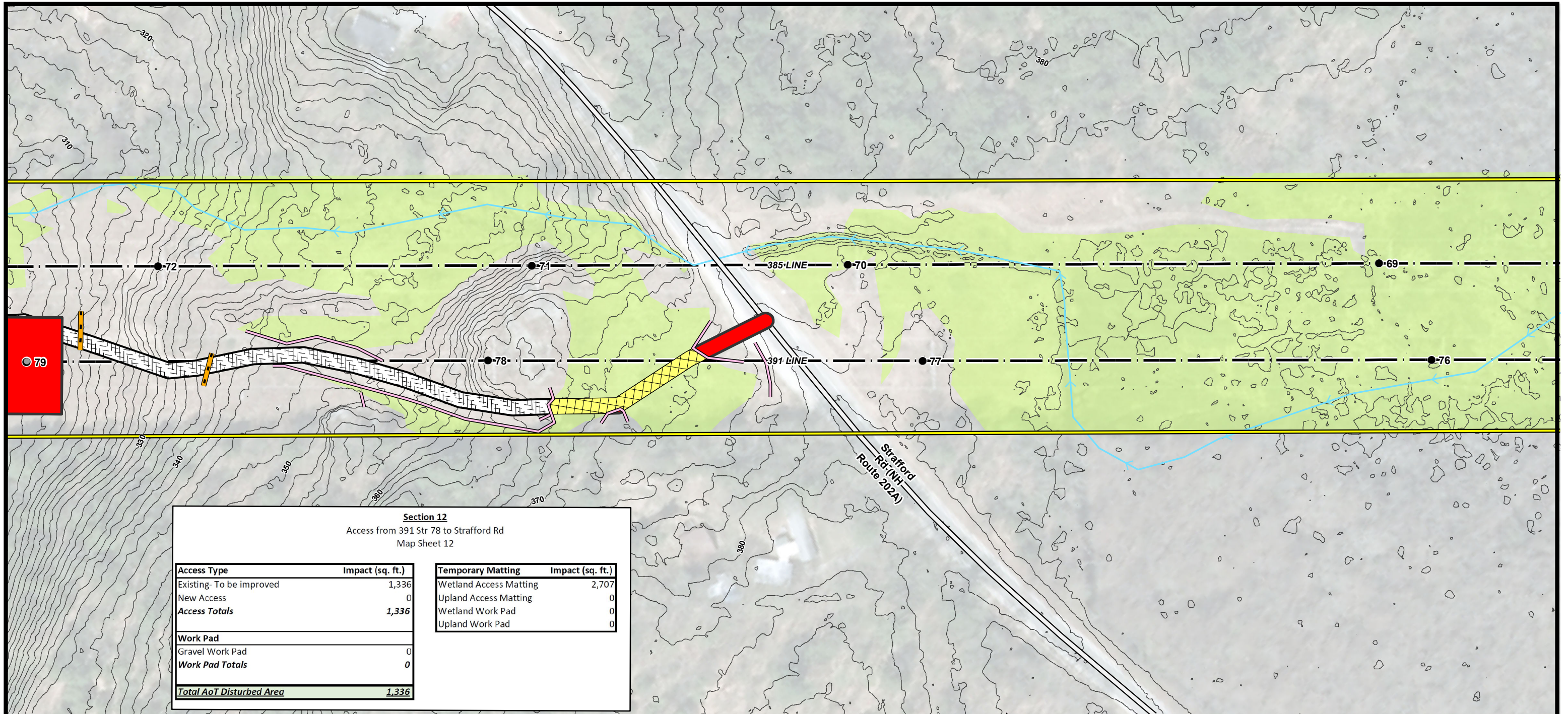
AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 11 OF 21

Project No.: 04.0190923.01

EVERSOURCE ENERGY

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1 inch = 100 feet



Section 12
Access from 391 Str 78 to Stafford Rd
Map Sheet 12

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing - To be improved	1,336	Wetland Access Matting	2,707
New Access	0	Upland Access Matting	0
Access Totals	1,336	Wetland Work Pad	0
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	0		
Work Pad Totals	0		
Total AoT Disturbed Area	1,336		



Current Town: *Stafford*

Londonderry ← → Rochester

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ○ ○ ROCK WALL
- NHD FLOWLINE
- SHORELAND ZONE
- BMP TYPE**
- SILT FENCE
- STRAW WATTLE
- WATER BAR
- ACCESS TYPE**
- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

NOTES:

1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015.
2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY.
3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE.
4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY.
5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018 AND VERIFIED BY GZA IN 2019.
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

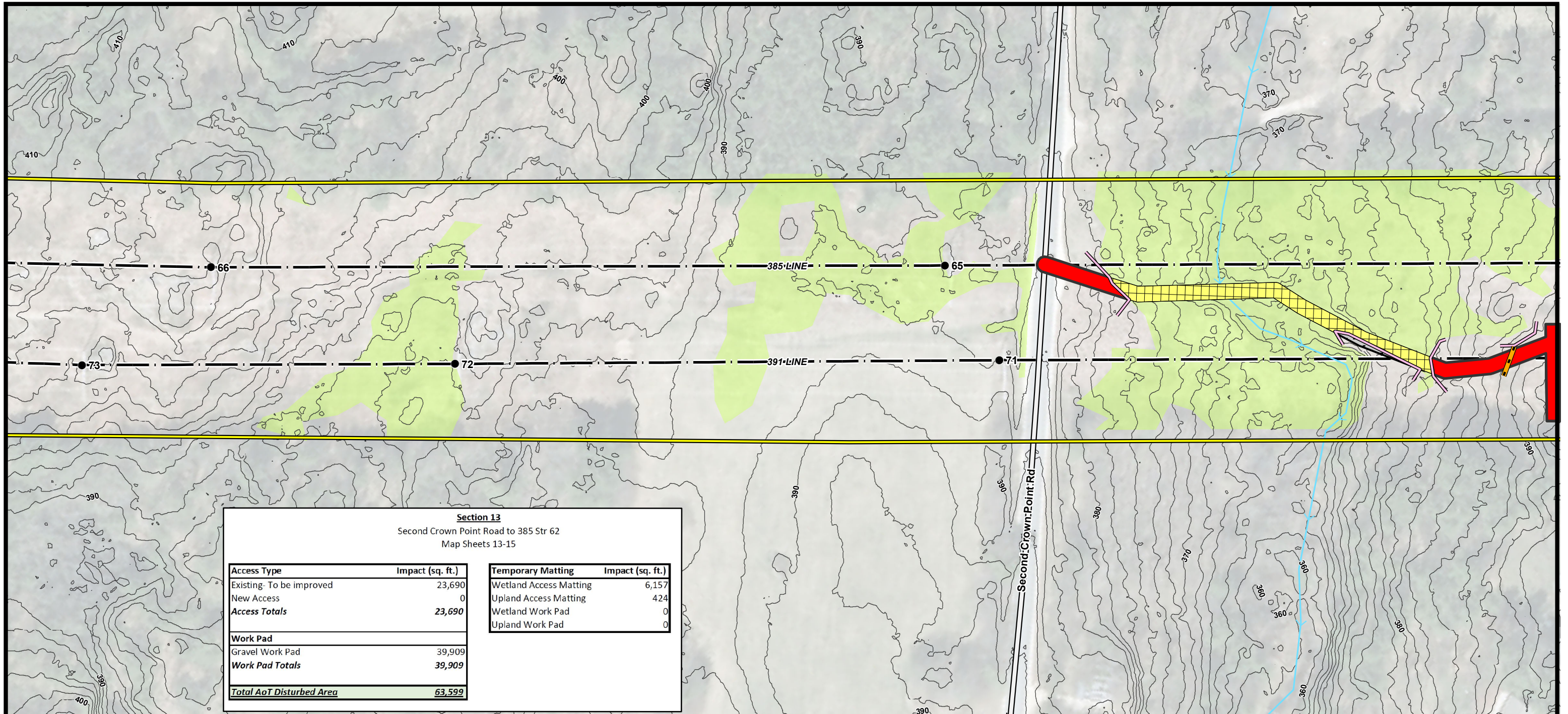
AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 12 OF 21

Project No.: 04.0190923.01

1 inch = 100 feet

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Section 13
Second Crown Point Road to 385 Str 62
Map Sheets 13-15

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	23,690	Wetland Access Matting	6,157
New Access	0	Upland Access Matting	424
Access Totals	23,690	Wetland Work Pad	0
Work Pad		Upland Work Pad	0
Gravel Work Pad	39,909		
Work Pad Totals	39,909		
Total AoT Disturbed Area	63,599		



Current Town: Strafford

Londonderry ← Rochester →

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ROCK WALL

BMP TYPE

- NHD FLOWLINE
- SHORELAND ZONE
- X—X— SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

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STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

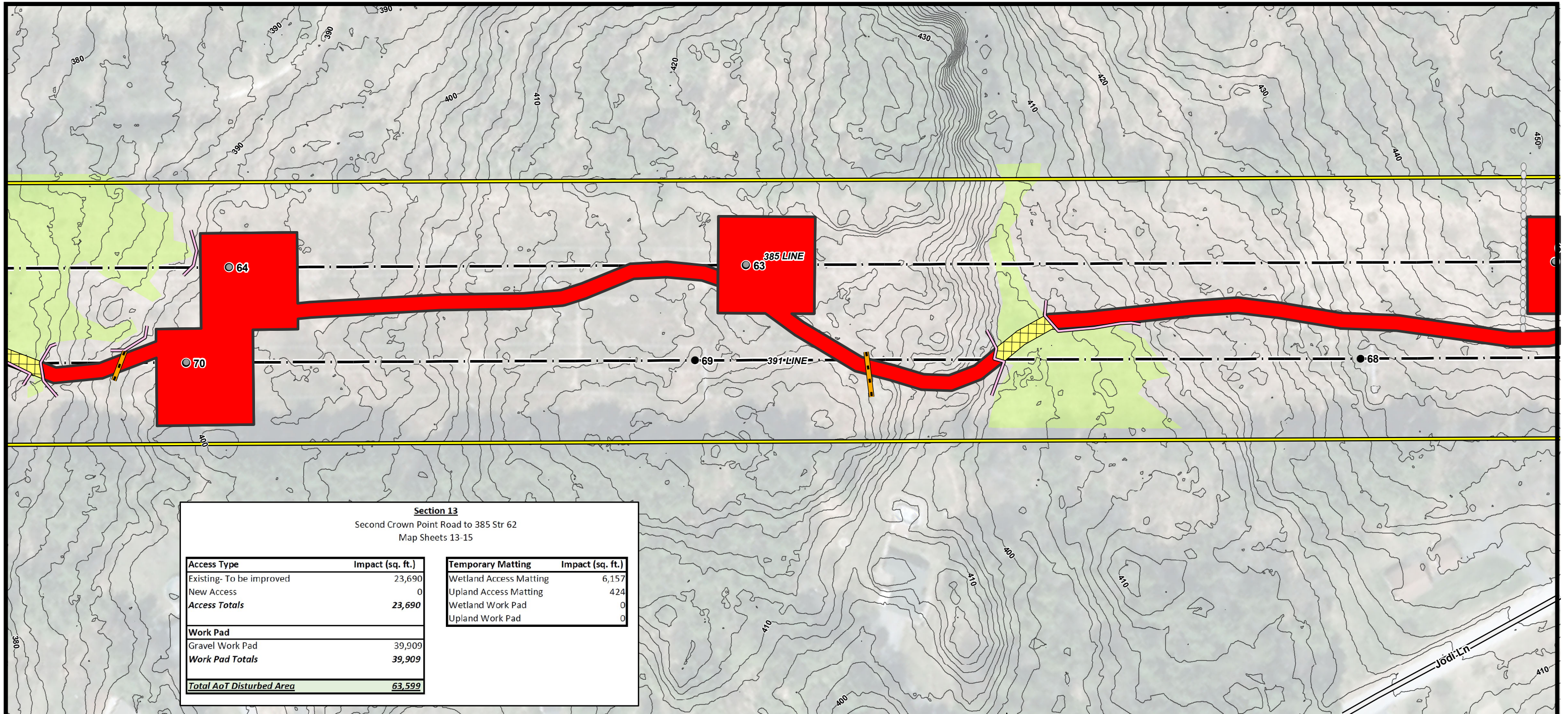
AUBURN, CHESTER, CANDIA, RAYMOND,
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NEW HAMPSHIRE
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1 inch = 100 feet



Section 13
Second Crown Point Road to 385 Str 62
Map Sheets 13-15

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	23,690	Wetland Access Matting	6,157
New Access	0	Upland Access Matting	424
Access Totals	23,690	Wetland Work Pad	0
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	39,909		
Work Pad Totals	39,909		
Total AoT Disturbed Area		63,599	



Current Town: Strafford

Londonderry ← → Rochester

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ○ ○ ROCK WALL

BMP TYPE

- NHD FLOWLINE
- SHORELAND ZONE
- SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

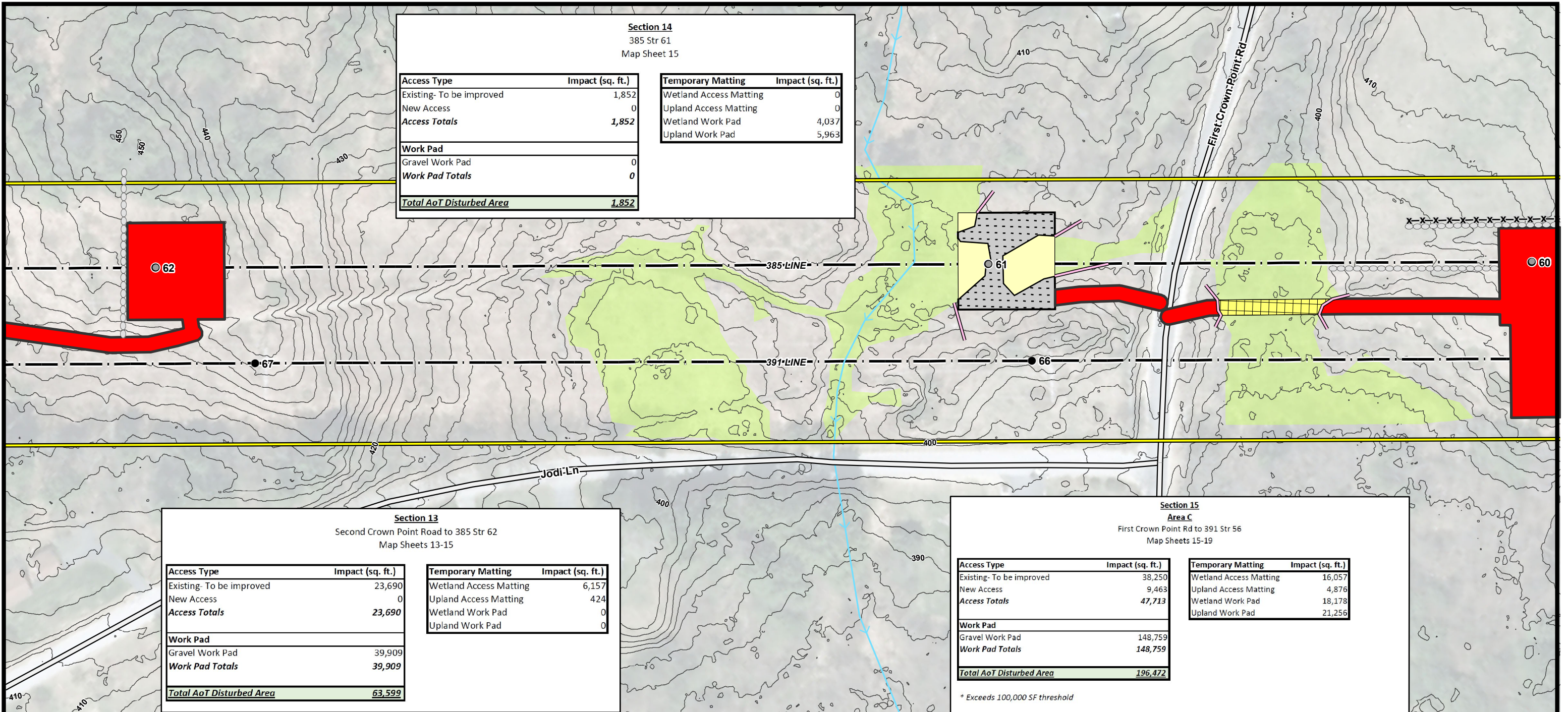
AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 14 OF 21

Project No.: 04.0190923.01

1 inch = 100 feet

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Section 14
385 Str 61
Map Sheet 15

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	1,852	Wetland Access Matting	0
New Access	0	Upland Access Matting	0
Access Totals	1,852	Wetland Work Pad	4,037
Work Pad		Upland Work Pad	5,963
Gravel Work Pad	0		
Work Pad Totals	0		
Total AoT Disturbed Area	1,852		

Section 13
Second Crown Point Road to 385 Str 62
Map Sheets 13-15

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	23,690	Wetland Access Matting	6,157
New Access	0	Upland Access Matting	424
Access Totals	23,690	Wetland Work Pad	0
Work Pad		Upland Work Pad	0
Gravel Work Pad	39,909		
Work Pad Totals	39,909		
Total AoT Disturbed Area	63,599		

Section 15
Area C
First Crown Point Rd to 391 Str 56
Map Sheets 15-19

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	38,250	Wetland Access Matting	16,057
New Access	9,463	Upland Access Matting	4,876
Access Totals	47,713	Wetland Work Pad	18,178
Work Pad		Upland Work Pad	21,256
Gravel Work Pad	148,759		
Work Pad Totals	148,759		
Total AoT Disturbed Area	196,472		

* Exceeds 100,000 SF threshold



Current Town: Strafford

Legend:

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ROCK WALL
- NHD FLOWLINE
- SHORELAND ZONE
- BMP TYPE
- SILT FENCE
- STRAW WATTLE
- WATER BAR
- ACCESS TYPE
- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE

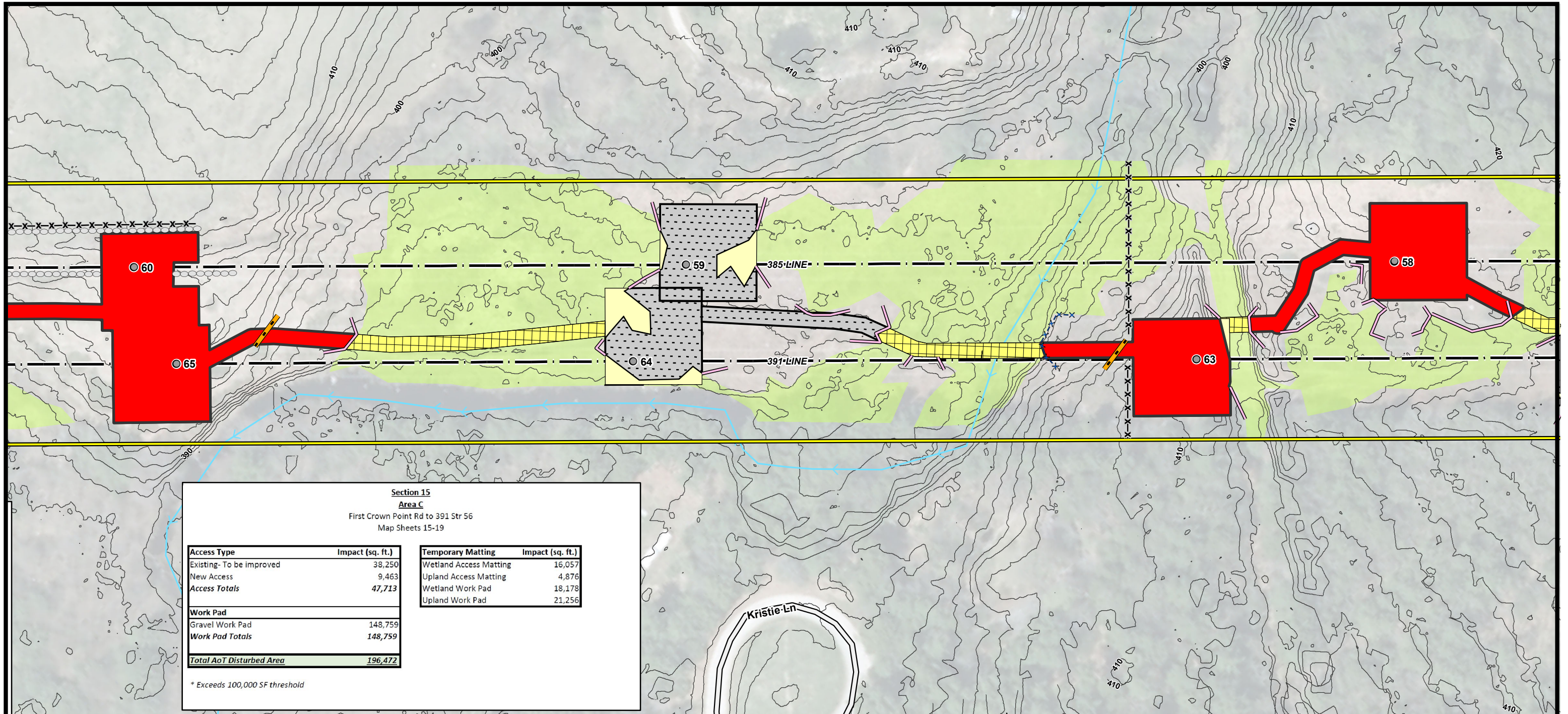
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Project No.: 04.0190923.01

1 inch = 100 feet

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**Section 15
Area C**
First Crown Point Rd to 391 Str 56
Map Sheets 15-19

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	38,250	Wetland Access Matting	16,057
New Access	9,463	Upland Access Matting	4,876
Access Totals	47,713	Wetland Work Pad	18,178
		Upland Work Pad	21,256
Work Pad			
Gravel Work Pad	148,759		
Work Pad Totals	148,759		
Total AoT Disturbed Area	196,472		

* Exceeds 100,000 SF threshold



Current Town: Strafford

← Londonderry Rochester →

<ul style="list-style-type: none"> — 2FT ELEVATION CONTOURS — PRIMARY ACCESS ROAD — SECONDARY ACCESS ROAD — APPROXIMATE ROW ■ AOT DISTURBANCE AREA ■ GRAVEL WORK PAD ■ UPLAND WORK PAD ■ WETLAND WORK PAD ● EXISTING STRUCTURE - NO PROPOSED WORK ● EXISTING STRUCTURE TO BE REPLACED ■ FIELD DELINEATED WETLANDS — RAILROAD — TRANSMISSION LINE -X-X- FENCE — FENCE GATE ○ ○ ○ ROCK WALL 	<ul style="list-style-type: none"> — NHD FLOWLINE — SHORELAND ZONE BMP TYPE -X-X- SILT FENCE — STRAW WATTLE — WATER BAR ACCESS TYPE ■ EXISTING-IMPROVED ■ UPLAND MATTING ■ WETLAND ACCESS MATTING — NHDOT ROAD — TOWN BOUNDARY 	<p>NOTES:</p> <ol style="list-style-type: none"> 1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015. 2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY. 3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE. 4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY. 5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018 AND VERIFIED BY GZA IN 2019. 6. "2FT ELEVATION CONTOURS" WERE GENERATED USING LIDAR DATA FROM NH GRANIT CLEARINGHOUSE (CONNECTICUT RIVER WATERSHED 2015 AND COASTAL NEW HAMPSHIRE 2011).
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

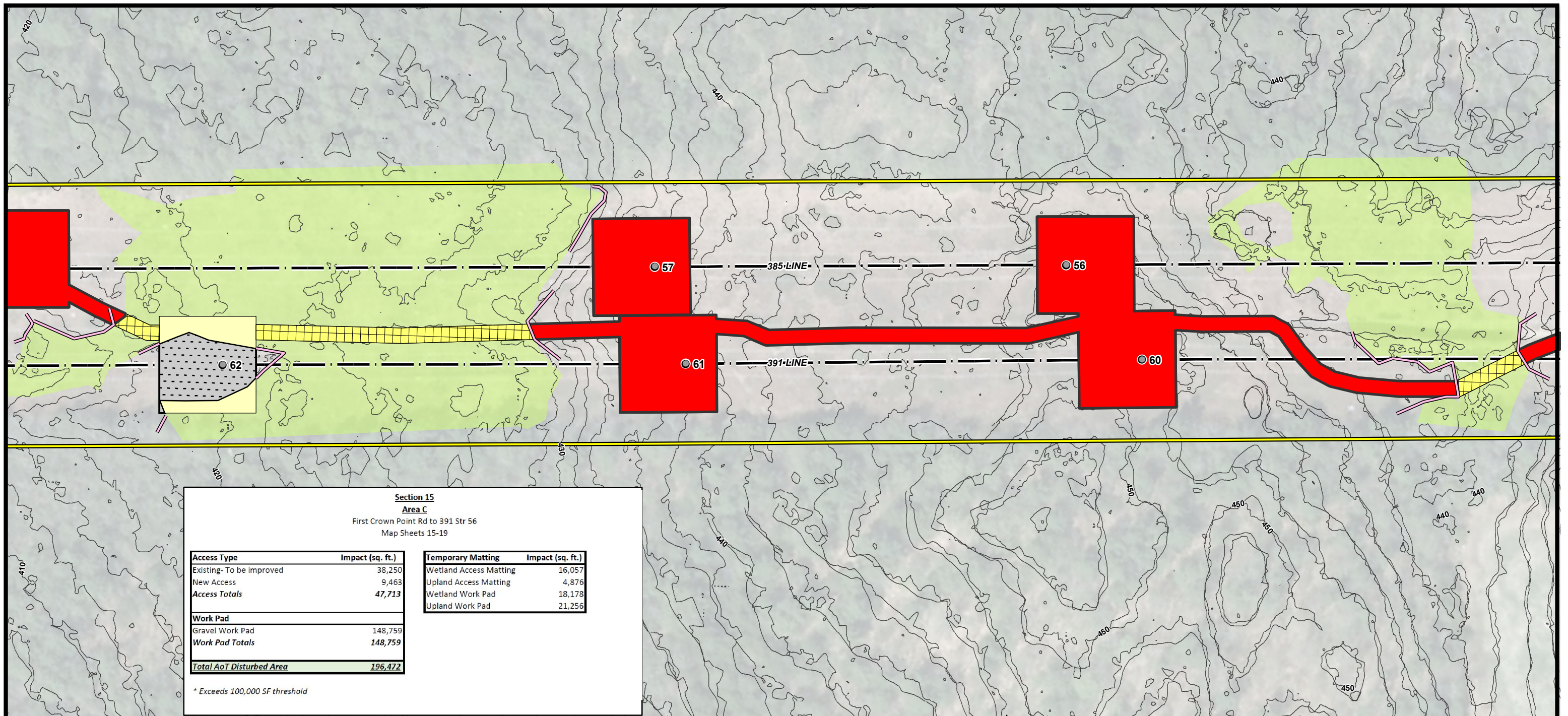
ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 16 OF 21

Project No.: 04.0190923.01 1 inch = 100 feet

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Section 15
Area C
First Crown Point Rd to 391 Str 56
Map Sheets 15-19

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
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		Upland Work Pad	21,256
Work Pad			
Gravel Work Pad	148,759		
Work Pad Totals	148,759		
Total AoT Disturbed Area			
			196,472

* Exceeds 100,000 SF threshold



Current Town: *Strafford*

Londonderry ← → Rochester

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ○ ○ ROCK WALL

BMP TYPE

- NHD FLOWLINE
- SHORELAND ZONE
- X—X— SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
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STRUCTURE REPLACEMENT PROJECT**

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APRIL 26, 2019

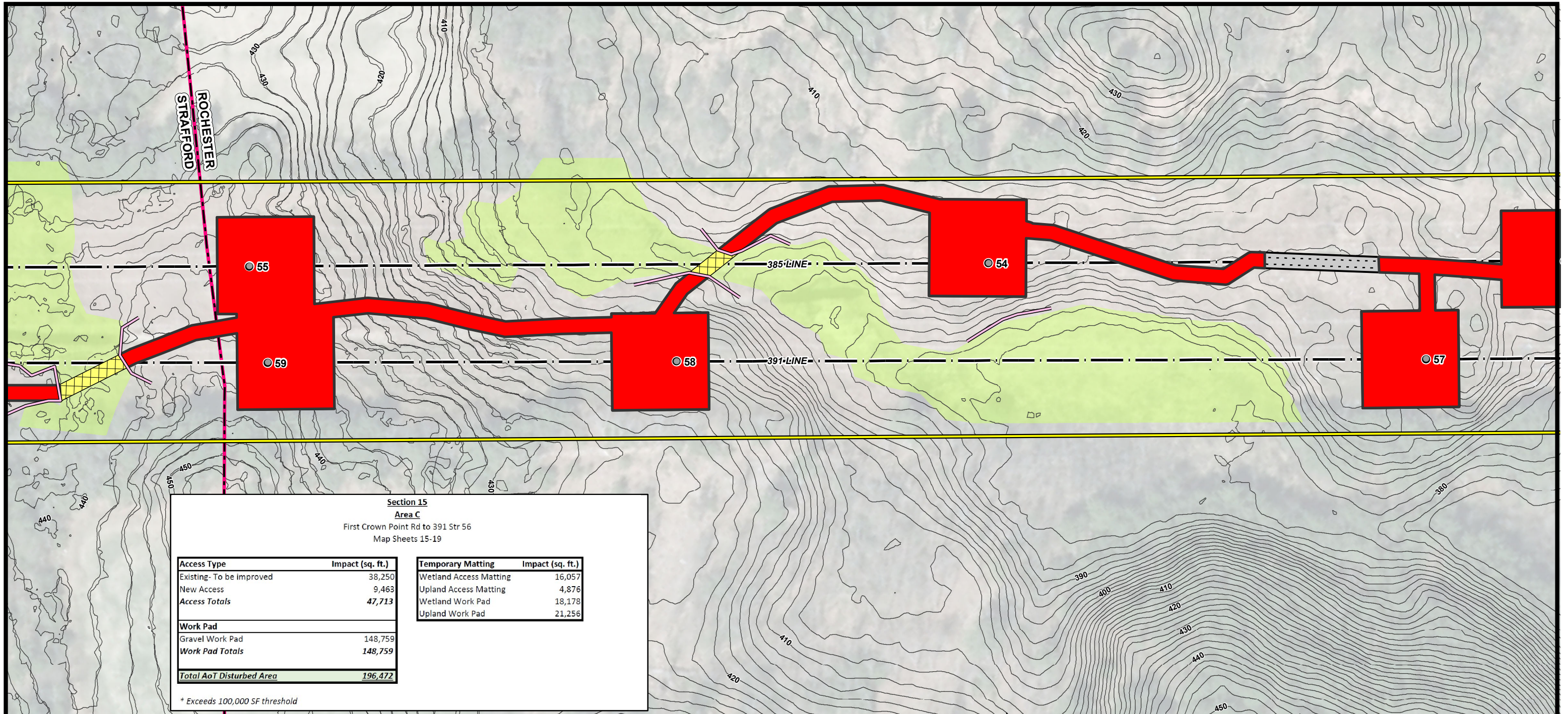
AUBURN, CHESTER, CANDIA, RAYMOND,
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NEW HAMPSHIRE
PAGE 17 OF 21

Project No.: 04.0190923.01

1 inch = 100 feet

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Section 15
Area C
First Crown Point Rd to 391 Str 56
Map Sheets 15-19

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
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Total AoT Disturbed Area	196,472		

* Exceeds 100,000 SF threshold



Current Town: Strafford/Rochester

← Londonderry Rochester →

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
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- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
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- FENCE GATE
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- SHORELAND ZONE
- X-X- SILT FENCE
- STRAW WATTLE
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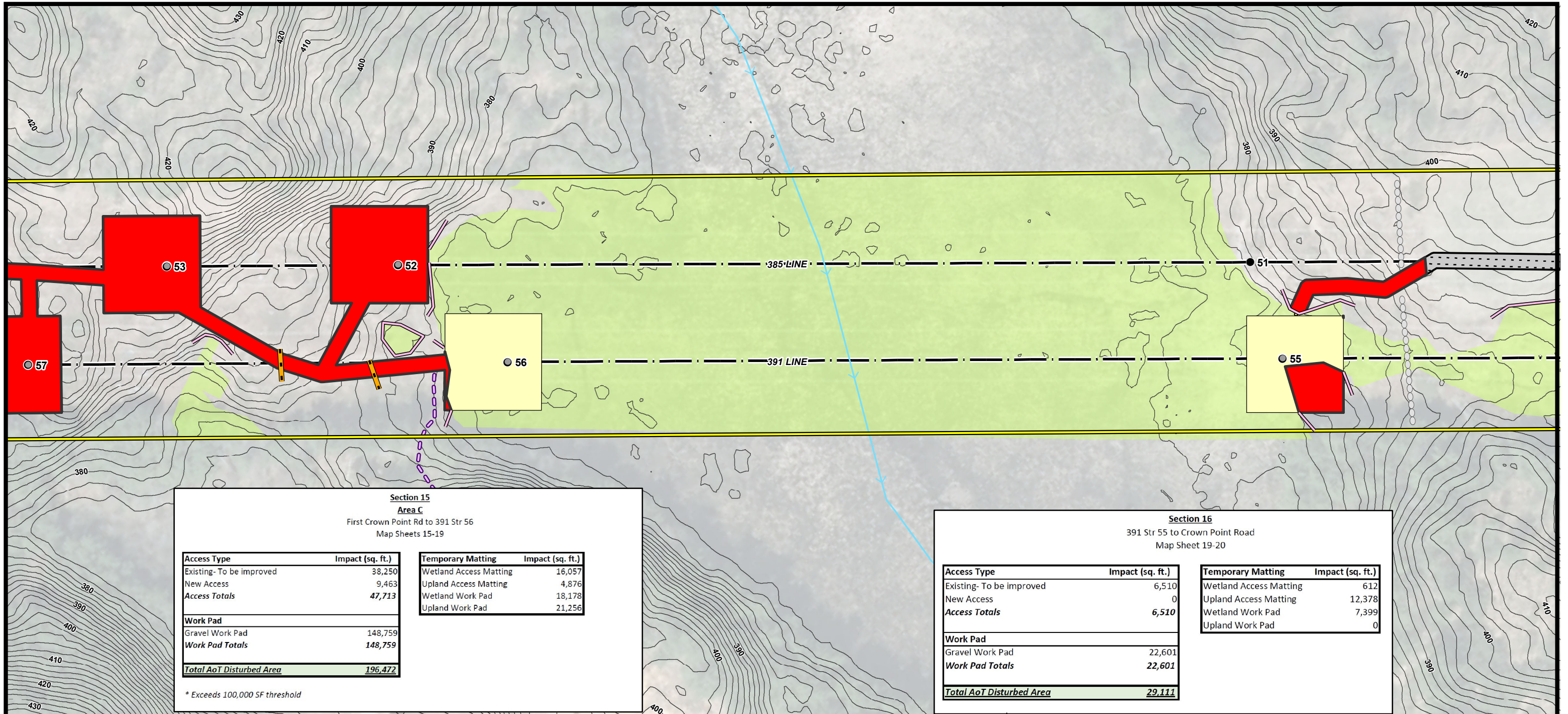
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1 inch = 100 feet



Section 15
Area C
First Crown Point Rd to 391 Str 56
Map Sheets 15-19

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
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New Access	9,463	Upland Access Matting	4,876
Access Totals	47,713	Wetland Work Pad	18,178
		Upland Work Pad	21,256
Work Pad			
Gravel Work Pad	148,759		
Work Pad Totals	148,759		
Total AoT Disturbed Area	196,472		

* Exceeds 100,000 SF threshold

Section 16
391 Str 55 to Crown Point Road
Map Sheet 19-20

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	6,510	Wetland Access Matting	612
New Access	0	Upland Access Matting	12,378
Access Totals	6,510	Wetland Work Pad	7,399
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	22,601		
Work Pad Totals	22,601		
Total AoT Disturbed Area	29,111		



Current Town: Rochester

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
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- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ROCK WALL
- NHD FLOWLINE
- SHORELAND ZONE
- BMP TYPE**
- SILT FENCE
- STRAW WATTLE
- WATER BAR
- ACCESS TYPE**
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**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

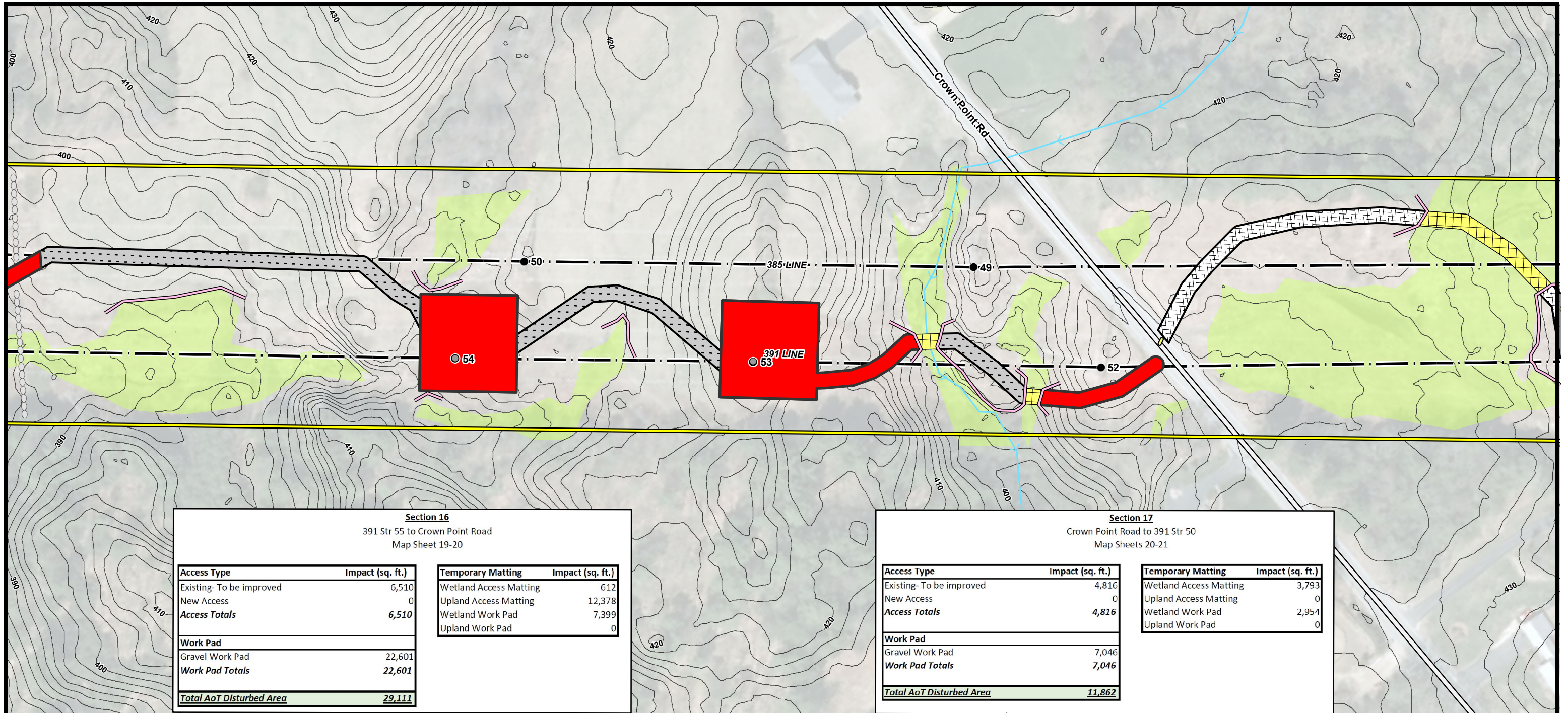
AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
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Project No.: 04.0190923.01

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1 inch = 100 feet



Section 16
391 Str 55 to Crown Point Road
Map Sheet 19-20

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New Access	0	Upland Access Matting	12,378
Access Totals	6,510	Wetland Work Pad	7,399
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	22,601		
Work Pad Totals	22,601		
Total AoT Disturbed Area		29,111	

Section 17
Crown Point Road to 391 Str 50
Map Sheets 20-21

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	4,816	Wetland Access Matting	3,793
New Access	0	Upland Access Matting	0
Access Totals	4,816	Wetland Work Pad	2,954
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	7,046		
Work Pad Totals	7,046		
Total AoT Disturbed Area		11,862	



Current Town: Rochester

Legend:

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
- WETLAND WORK PAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- FIELD DELINEATED WETLANDS
- RAILROAD
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ○ ○ ROCK WALL

BMP TYPE

- NHD FLOWLINE
- SHORELAND ZONE
- x—x— SILT FENCE
- STRAW WATTLE
- WATER BAR

ACCESS TYPE

- EXISTING-IMPROVED
- UPLAND MATTING
- WETLAND ACCESS MATTING
- NHDOT ROAD
- TOWN BOUNDARY

NOTES:

1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015.
2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY.
3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE.
4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY.
5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018 AND VERIFIED BY GZA IN 2019.
6. "2FT ELEVATION CONTOURS" WERE GENERATED USING LIDAR DATA FROM NH GRANIT CLEARINGHOUSE (CONNECTICUT RIVER WATERSHED 2015 AND COASTAL NEW HAMPSHIRE 2011).

**373, 391, & 385 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

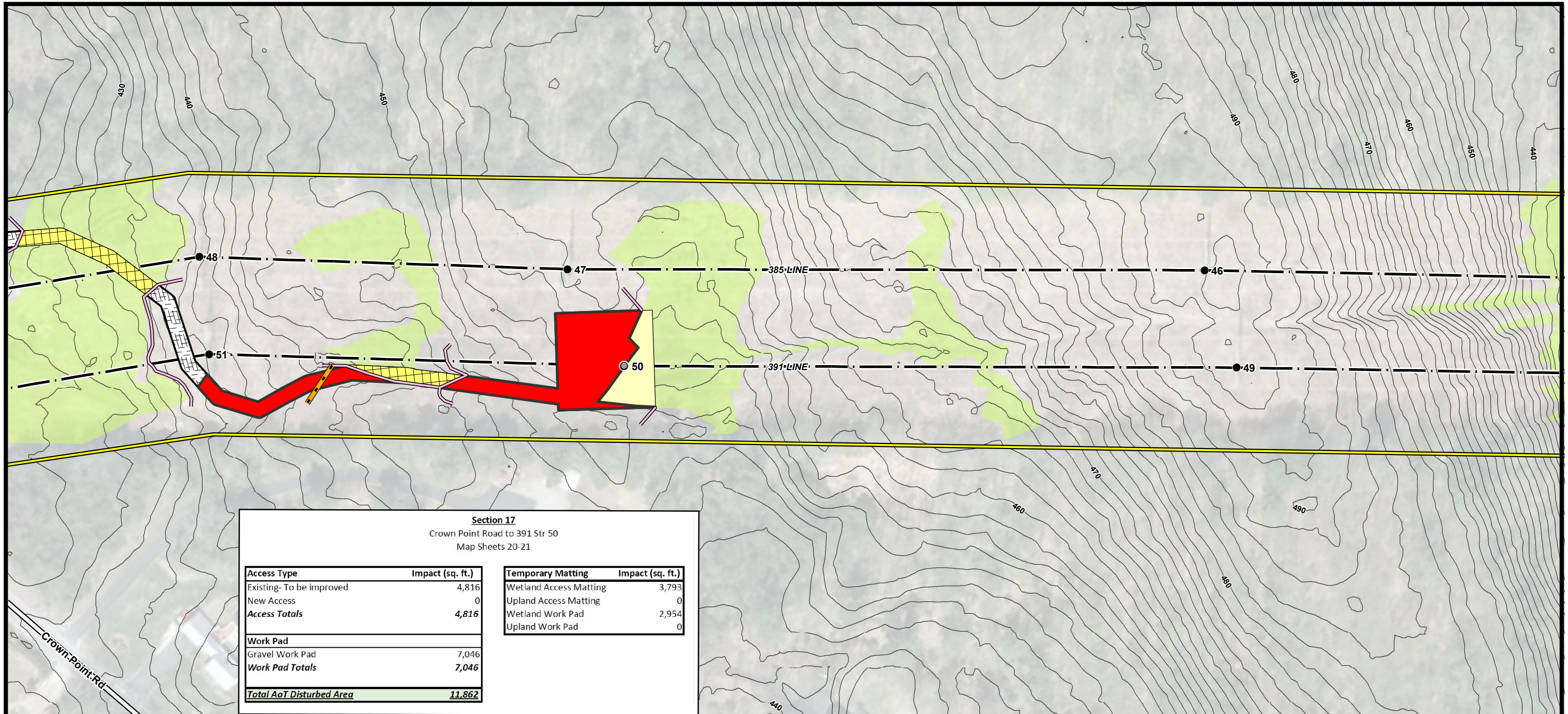
AUBURN, CHESTER, CANDIA, RAYMOND,
DEERFIELD, ROCHESTER, & STRAFFORD
NEW HAMPSHIRE
PAGE 20 OF 21

Project No.: 04.0190923.01

**EVERSOURCE
ENERGY**

GZA GeoEnvironmental, Inc.
Engineers and Scientists
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1 inch = 100 feet



Section 17
Crown Point Road to 391 Str 50
Map Sheets 20-21

Access Type	Impact (sq. ft.)	Temporary Matting	Impact (sq. ft.)
Existing- To be improved	4,816	Wetland Access Matting	3,793
New Access	0	Upland Access Matting	0
Access Totals	4,816	Wetland Work Pad	2,954
		Upland Work Pad	0
Work Pad			
Gravel Work Pad	7,046		
Work Pad Totals	7,046		
Total AoT Disturbed Area	11,862		



Current Town: Rochester

Londonderry ← Rochester →

- 2FT ELEVATION CONTOURS
- PRIMARY ACCESS ROAD
- SECONDARY ACCESS ROAD
- APPROXIMATE ROW
- AOT DISTURBANCE AREA
- GRAVEL WORK PAD
- UPLAND WORK PAD
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- NHD FLOWLINE
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**373, 391, & 385 TRANSMISSION LINE
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ALTERATION OF TERRAIN PLANS
APRIL 26, 2019

AUBURN, CHESTER, CANDIA, RAYMOND,
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PAGE 21 OF 21

Project No.: 04.0190923.01

EVERSOURCE
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1 inch = 100 feet

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CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY. CONSTRUCTION ACTIVITIES SHALL OCCUR DURING PERIODS OF LOW FLOW.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. ALL OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ALL ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE SWAMP MATS WHERE REQUIRED.
8. ALL LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. SWAMP MATS WILL BE USED ALONG ALL ACCESS ROUTES WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF SWAMP MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
15. CABLE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
16. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
17. ALL SWAMP MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
18. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM.
19. ALL TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION. NEW ENGLAND EROSION CONTROL/RESTORATION MIX, AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST, MA 01002, 413-548-8000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INUNDATED, AS NECESSARY.
20. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
21. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
22. WHERE OPTIMAL TURTLE BREEDING AREAS OVERLAP WITH DISTURBANCE (AS DETERMINED BY AN ENVIRONMENTAL MONITOR), MINERAL SOILS WILL BE SCARIFIED TO ALLEVIATE COMPACTION AND BECOME MORE SUITED FOR TURTLE BREEDING.

WINTER CONSTRUCTION NOTES

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

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

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE WETLAND DATA. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE DELINEATED BY TIGHE AND BOND IN 2018, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," JANUARY 2012. WETLANDS WERE REVIEWED BY GZA GEOENVIRONMENTAL, INC. IN JANUARY AND FEBRUARY 2019.
3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS ON FEBRUARY 6, 12, AND 15, 2019 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 1997, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ANDANGERED WILDLIFE PROGRAM.
4. GZA PERFORMED A WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999, IN THE TOWN OF STRAFFORD.
5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
6. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
7. IN ACCORANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
8. ALL AREAS SHALL BE STABILIZED WITH 45 DAYS OF INITIAL DISTURBANCE.
9. IN THE EVENT THAT A RARE OR THREATENED SPECIES IS OBSERVED, THE NEW HAMPSHIRE FISH AND GAME AND NEW HAMPSHIRE NATURAL HERITAGE BUREAU WILL BE NOTIFIED. TURTLE NESTING SEASON EXTENDS FROM LATE MAY THROUGH THE BEGINNING OF JULY. IF WOOD, BLANDING'S OR SPOTTED TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, CONTACT MELISSA DOPERALSKI AT 603-271-1738 OR JOSH MEGYESY AT 603-271-1125 FOR FURTHER INSTRUCTIONS. OBSERVATIONS OF NORTHERN BLACK RACER SNAKES SEEN IN ANY AREA FROM THE END OF SEPTEMBER THROUGH THE MONTH OF APRIL MUST BE IMMEDIATELY REPORTED TO THE NHFG DEPARTMENT (BRENDAN CLIFFORD AT 603-271-0463 OR MELISSA DOPERALSKI AT 603-271-1738). IF NORTHERN BLACK RACER IS FOUND IN A WORK AREA FROM NOVEMBER THROUGH THE MONTH OF APRIL, WORK SHALL IMMEDIATELY CEASE AND THE OBSERVATION MUST BE REPORTED TO THE NHFG (BRENDAN CLIFFORD OR MELISSA DOPERALSKI).



EROSION CONTROL NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION, AS NECESSARY.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
7. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES.

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391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER
NEW HAMPSHIRE

NOTES

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:  EVERSOURCE ENERGY	
PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 1 1 OF 2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 07/01/2019	PROJECT NO: 04.0190923.01	REVISION NO:	

Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

Straw wattles are burlap rolls filled with straw that trap sediment and interrupt water flow by reducing slope lengths.

Applications:

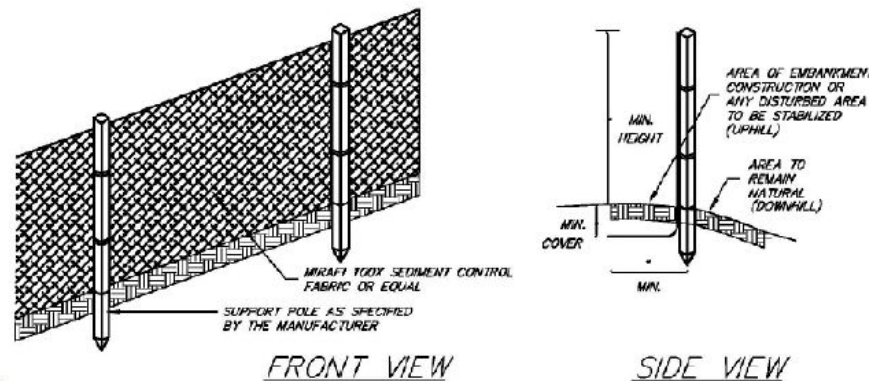
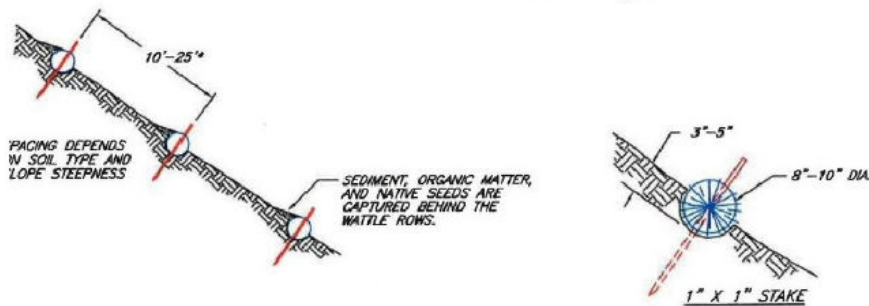
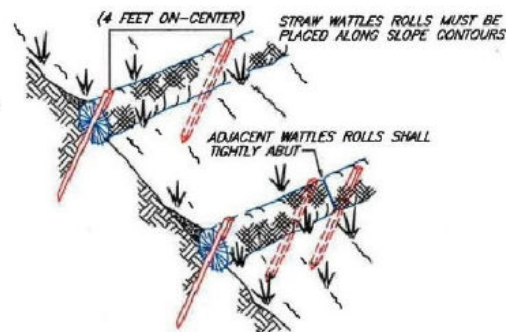
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

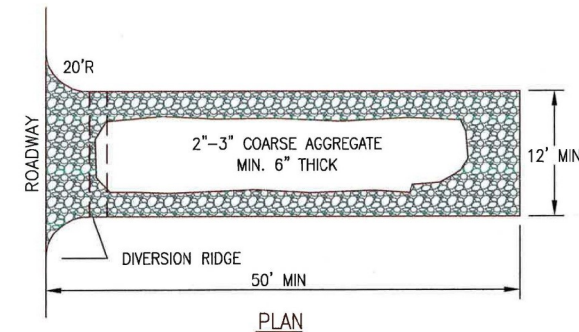
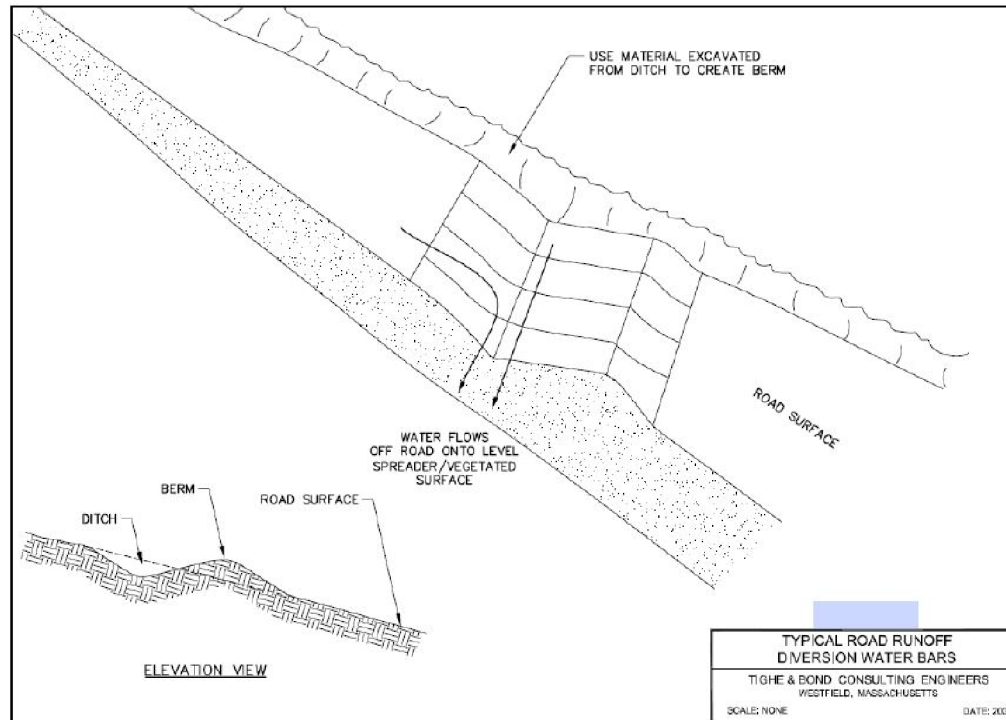
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

Spacing* - Dependent on slope length, soil steepness and soil type (general range 10 - 25').

Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



- NOTES (SILT FENCE)**
1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
 2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
 3. POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS
 5. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
 7. FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 10. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
 11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

CONSTRUCTION ENTRANCE

NOT TO SCALE

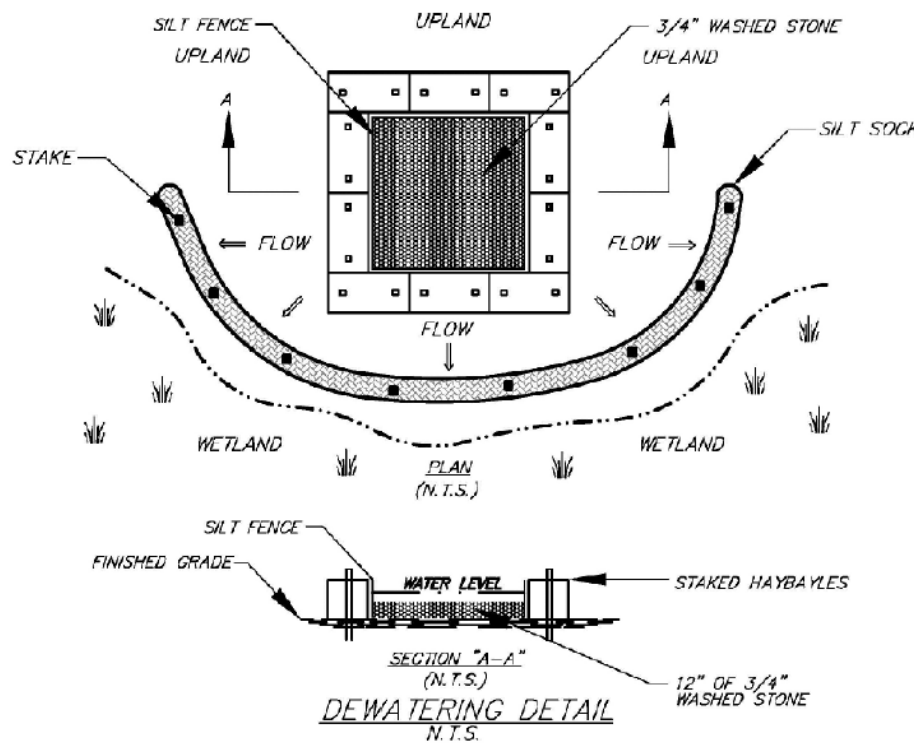


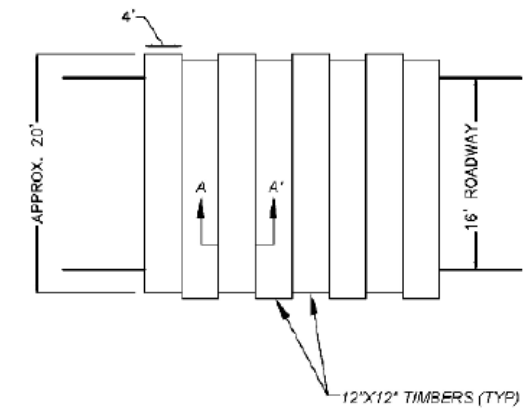
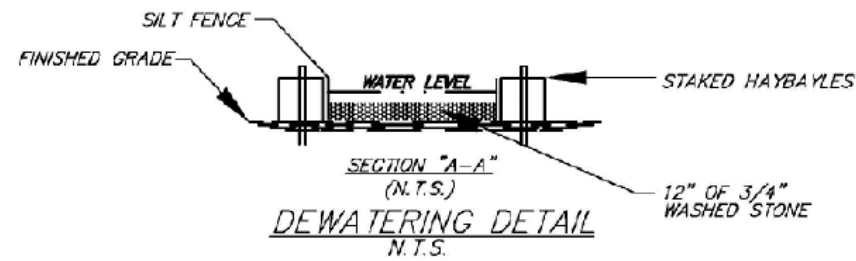
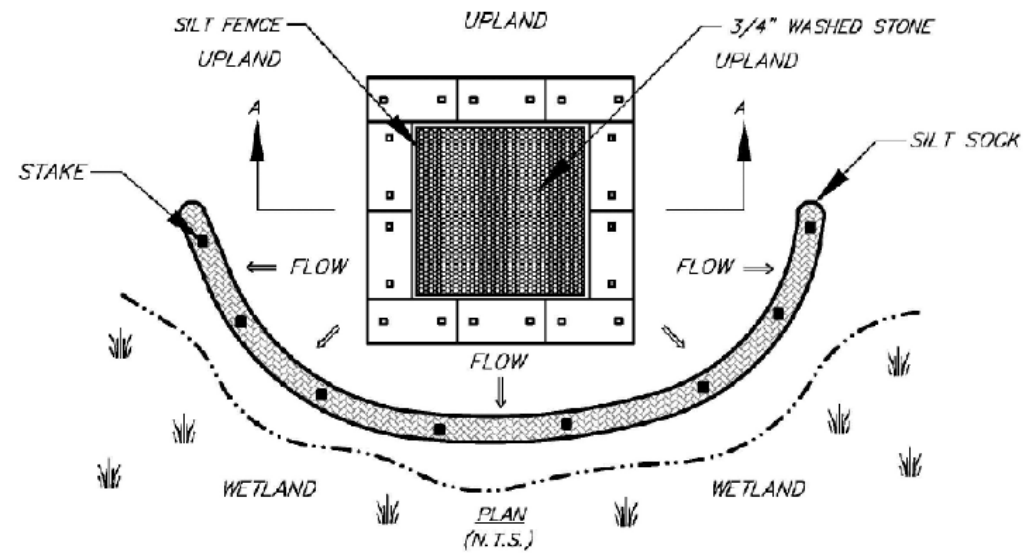
Figure 5

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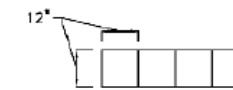
391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER
NEW HAMPSHIRE

BMP DETAILS	
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: EVERSOURCE ENERGY
PROJ MGR: LEW	REVIEWED BY: AJD
DESIGNED BY: MJD	DRAWN BY: MJD
DATE: 04/24/2019	PROJECT NO. 04.0190923.01
CHECKED BY: DMZ	SCALE:
	REVISION NO.
SHEET 2	

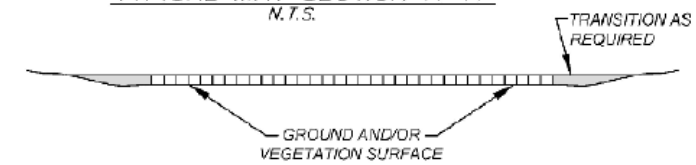
© 2019 - GZA GeoEnvironmental, Inc. P:\04\jobs\01909023\04_0190923_00 - Eversource MSA04_0190923_01 - 391 Transmission Line\Figures\MXD\391 373 385 Act NOTESHEET 3- BMPs 2.mxd, 4/24/2019, 1:33:43 PM, lindsey.white



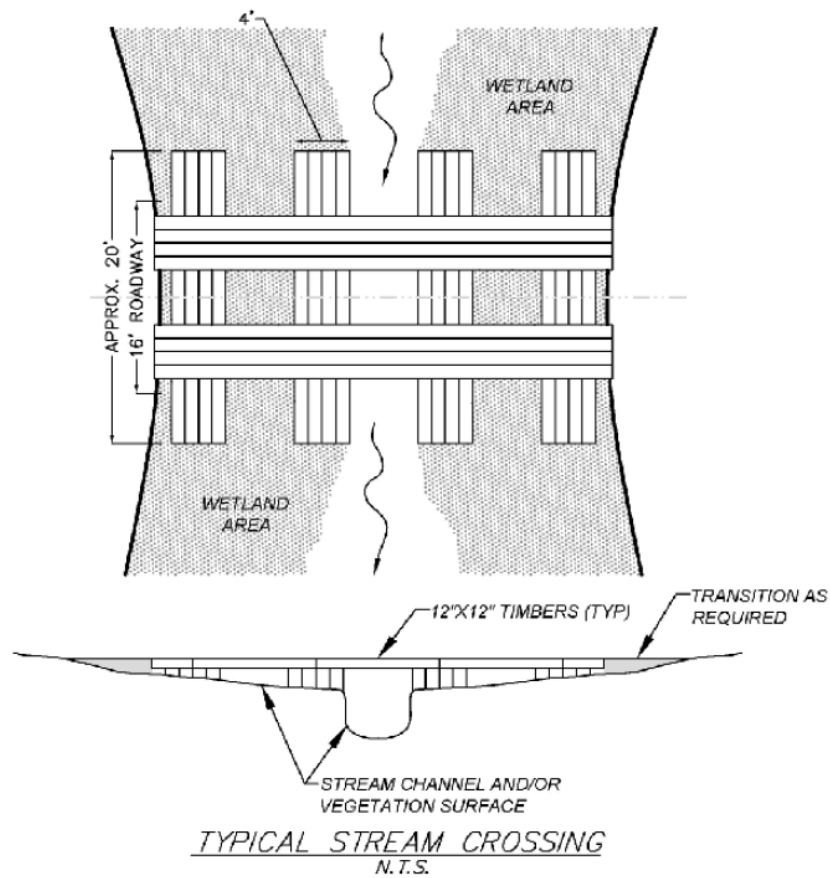
TYPICAL SWAMP MAT PLAN VIEW
N.T.S.



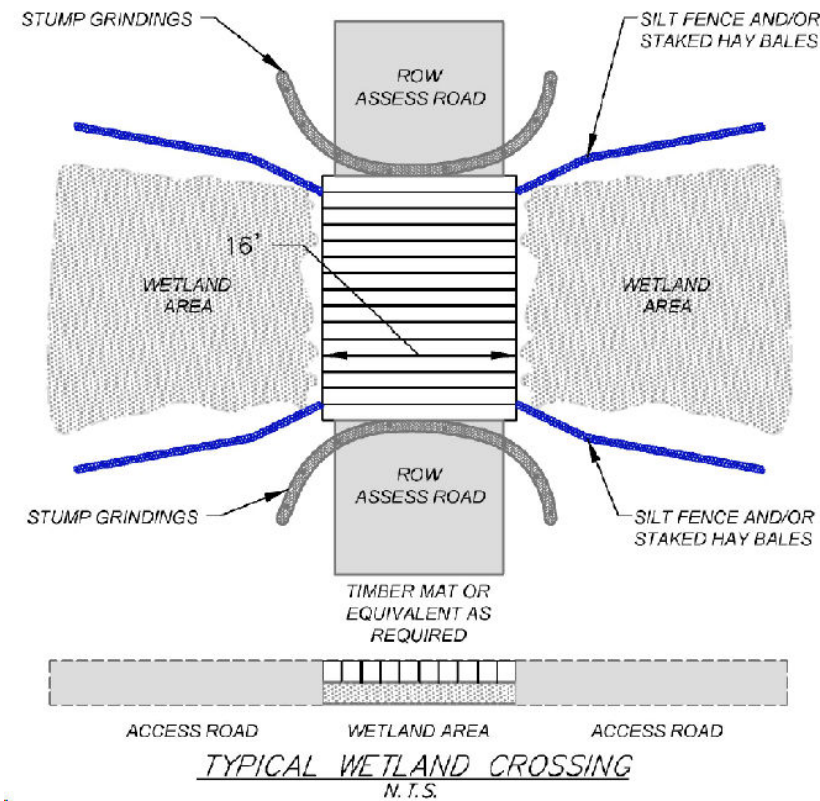
TYPICAL MAT SECTION A-A
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL
N.T.S.



TYPICAL STREAM CROSSING
N.T.S.



TYPICAL WETLAND CROSSING
N.T.S.

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391, 373, & 385 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
AUBURN, CHESTER, CANDIA, RAYMOND, DEERFIELD, STRAFFORD, AND ROCHESTER
NEW HAMPSHIRE

BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
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PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 3
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 04/24/2019	PROJECT NO. 04.0190923.01	REVISION NO.	