

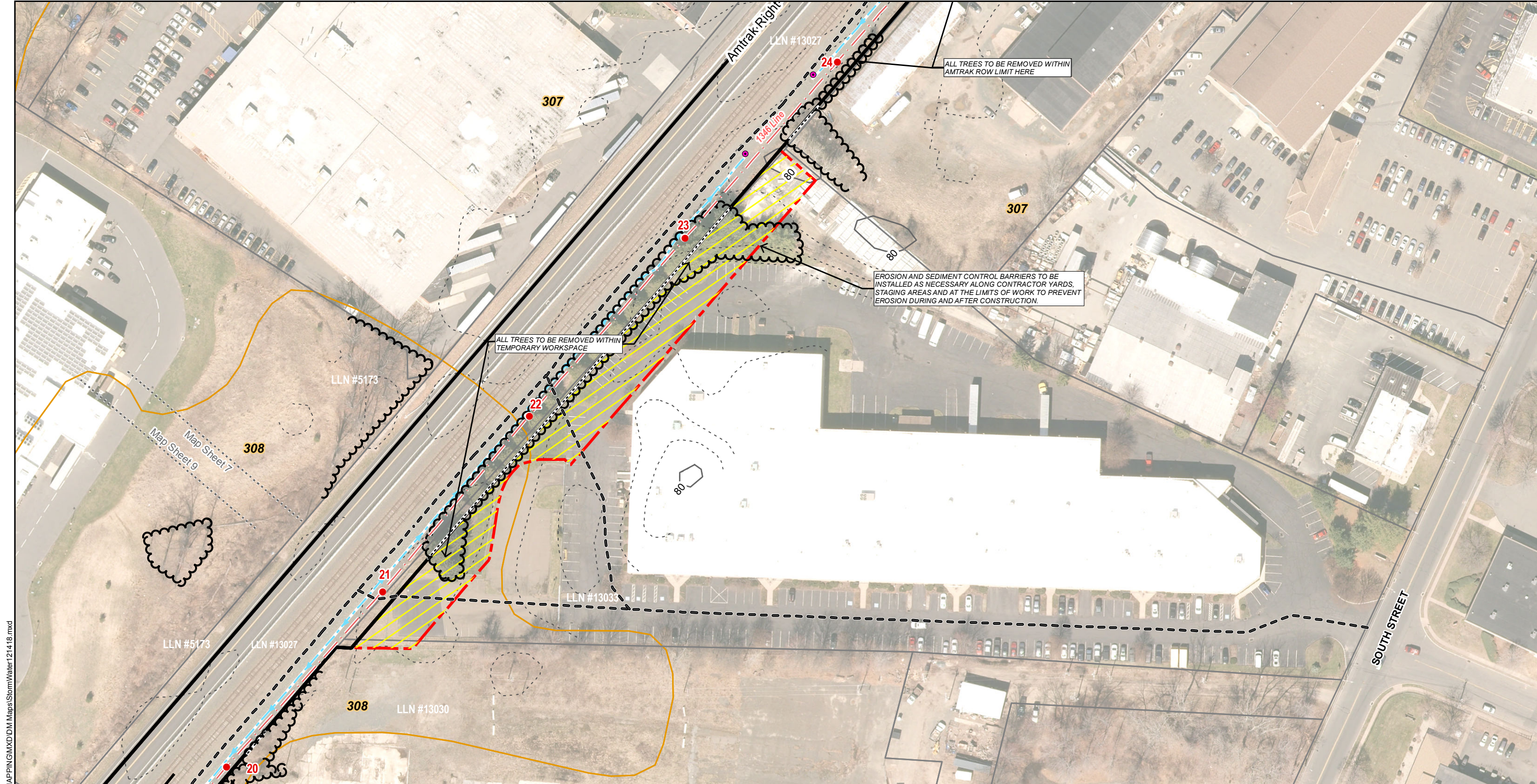
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	<ul style="list-style-type: none"> ● Proposed Structure <i>Str Label</i> ○ Existing Structure to be Removed <i>Str Label</i> ● Existing Structure <i>Str Label</i> ● Culvert (centerpoint) -1346- Underground Eversource Line -1346- Overhead Eversource Line ■ Eversource Owned Property ■ Eversource Right of Way 	<ul style="list-style-type: none"> — Amtrak Right-of-Way ××× Proposed Fence ××× Existing Fence ~ ~ ~ Approximate Tree Line — Vegetation Limit After Construction --- Proposed Tree Clearing Line — Erosion and Sediment Control Barrier — Water Bar 	<ul style="list-style-type: none"> — Non-Jurisdictional Ditch — Delineated Perennial Watercourse — Delineated Intermittent Watercourse — Delineated Wetland Boundary Outline ■ Field Delineated Wetland ■ FEMA 100-Year Flood Zone — Floodway → Direction of Stormwater Runoff 	<ul style="list-style-type: none"> ★ Potential Stormwater Sampling Location ■ NRCS Soils <i>Map Unit Symbol</i> — Existing Access — Proposed Access — Access Road to be Improved — 2 Foot Contour — 10 Foot Contour — Parcel Boundary 	<ul style="list-style-type: none"> — Municipal Boundary ■ Historic District ■ Construction Tracking Pad ■ Temporary Construction Matting ■ Stone Work Pad ■ Area of Disturbance ■ Temporary Workspace LLN #LLNs / Property Owner
	<p>EVERSOURCE Greater Hartford-Central Connecticut Reliability Project (GHCCRP) Stormwater Pollution Control Plan Newington, West Hartford, Hartford, CT</p> <p>Project Mapping Page 7 of 16</p> <p>AECOM</p>				

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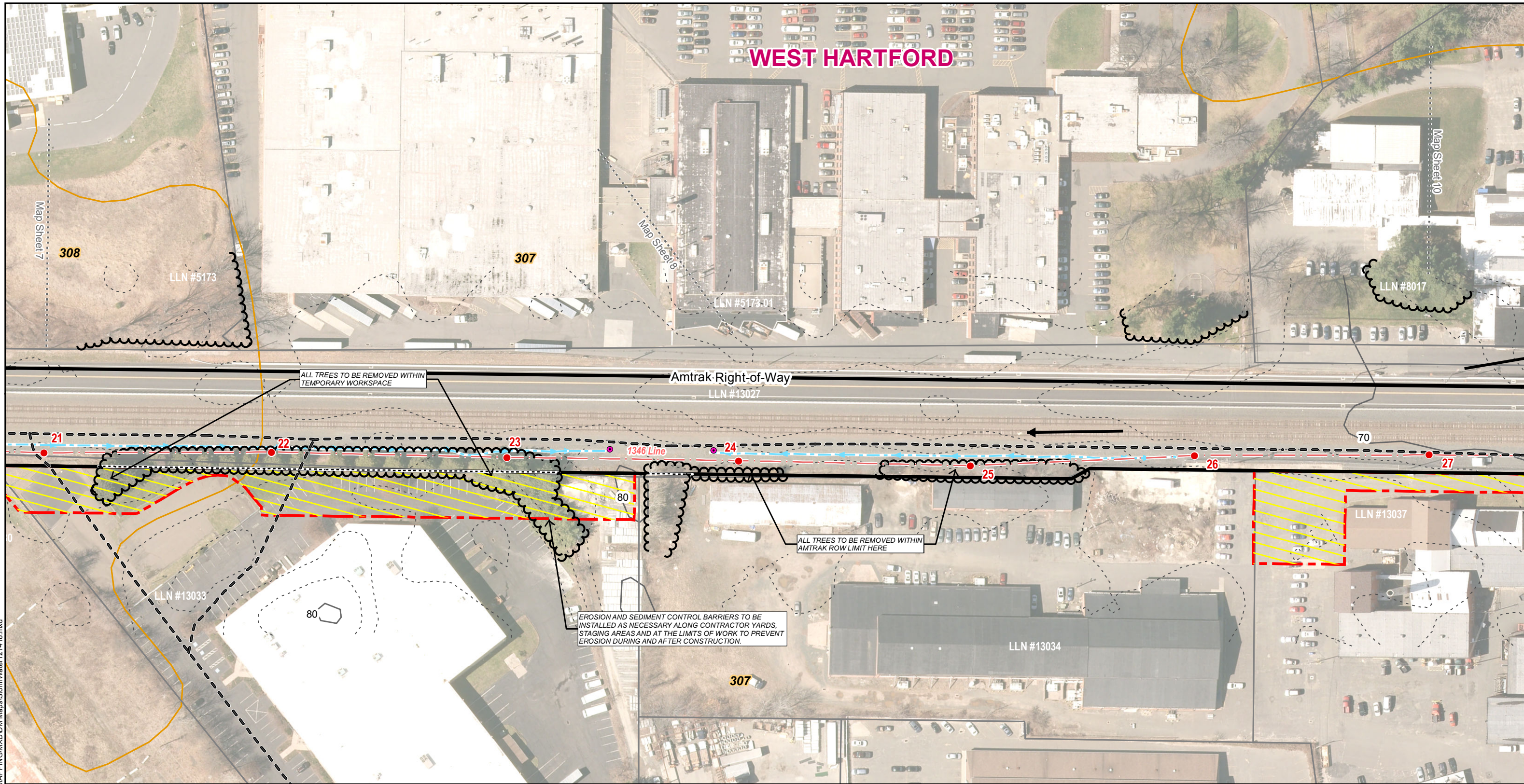
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WEST HARTFORD



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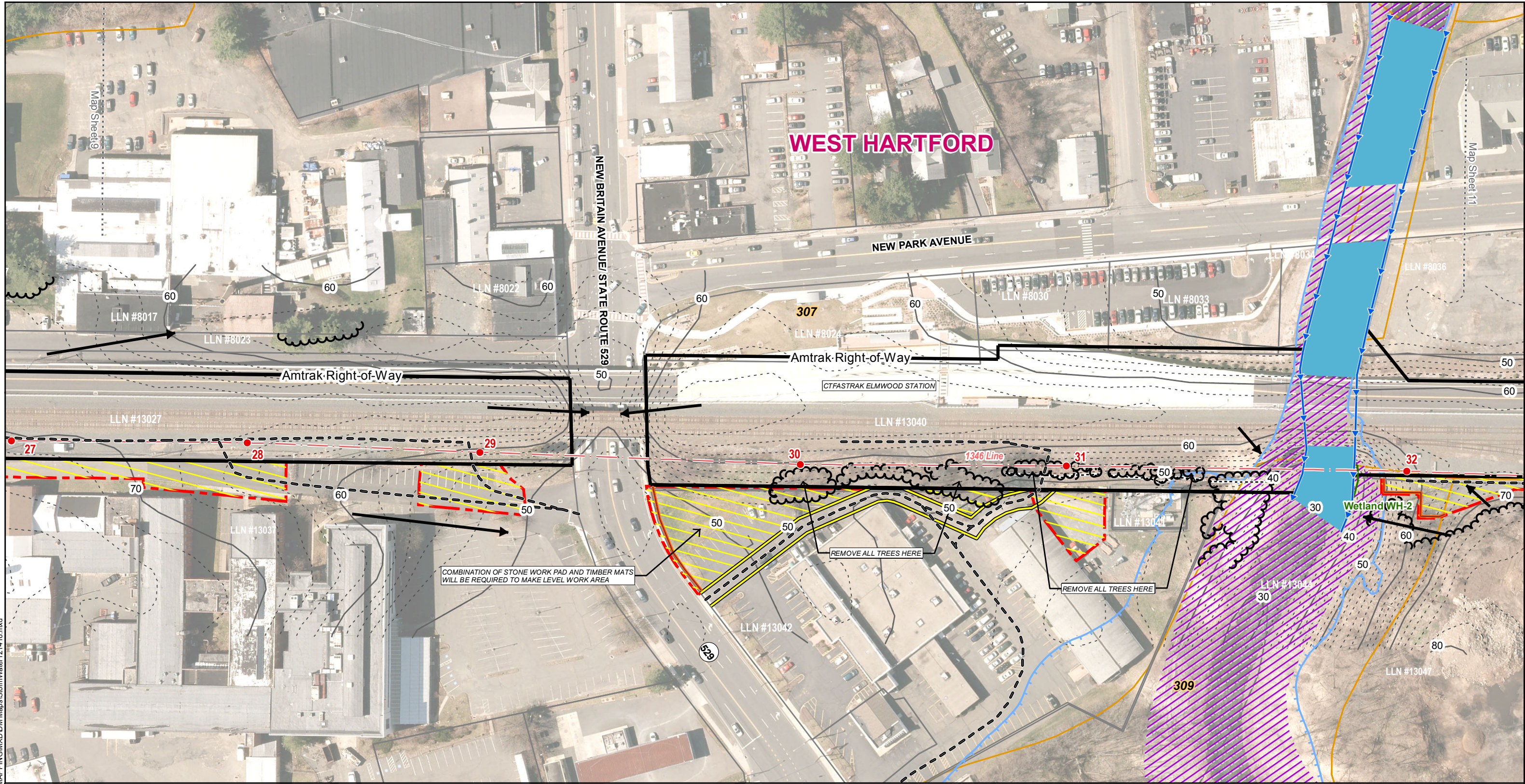
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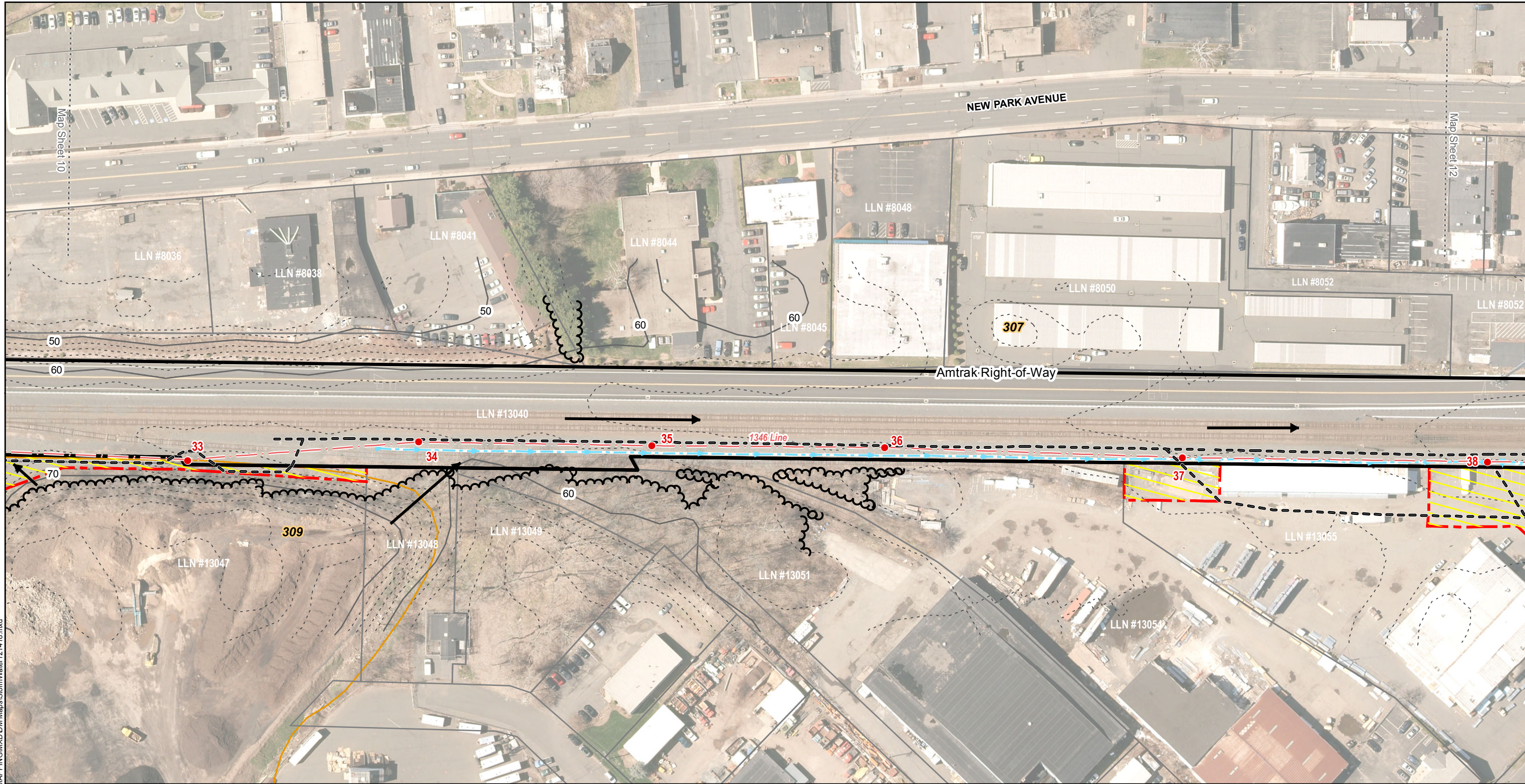
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	<p>West Hartford Hartford</p> <p>Newington</p>		<p>Project Mapping</p> <p>Page 10 of 16</p>		<p>EVERSOURCE</p> <p>Greater Hartford-Central Connecticut Reliability Project (GHCCRP) Stormwater Pollution Control Plan Newington, West Hartford, Hartford, CT</p> <p>AECOM</p>

LLN #LLNs / Property Owner

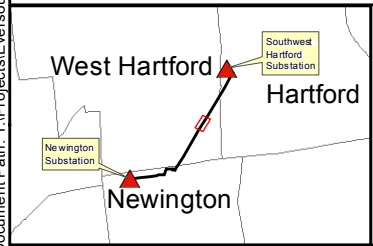
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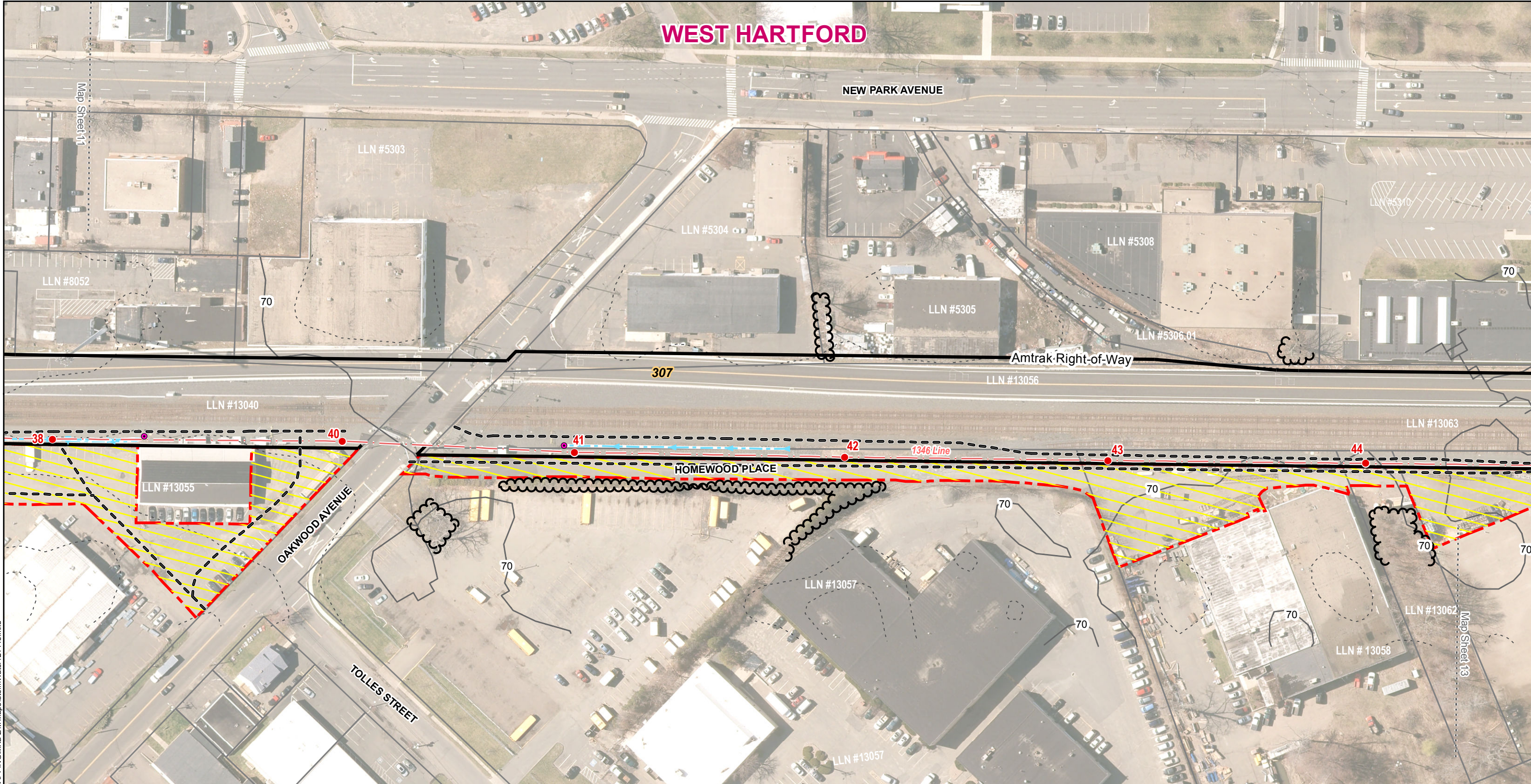
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Project Mapping
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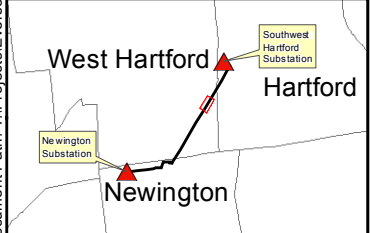
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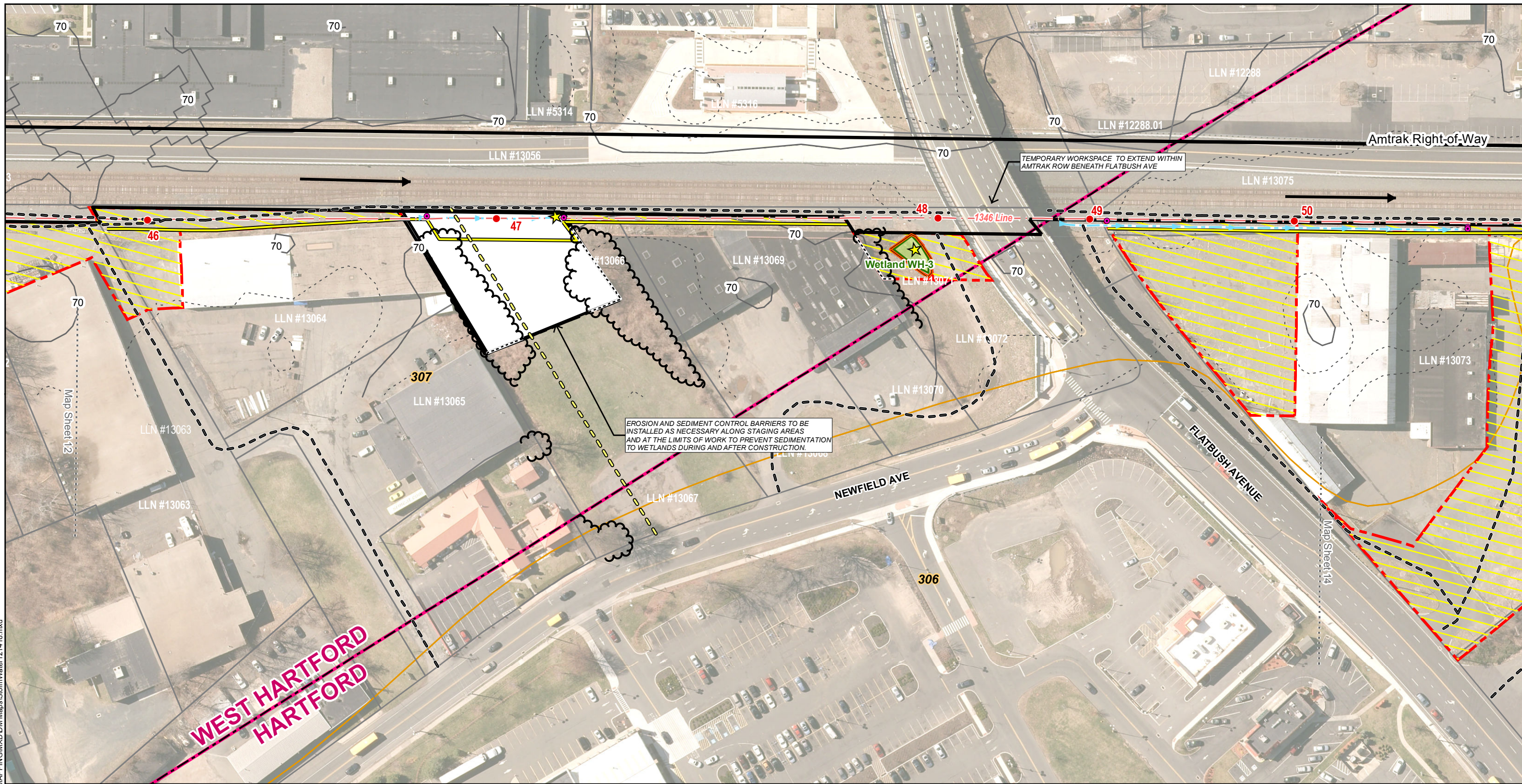
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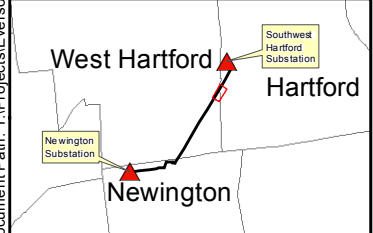
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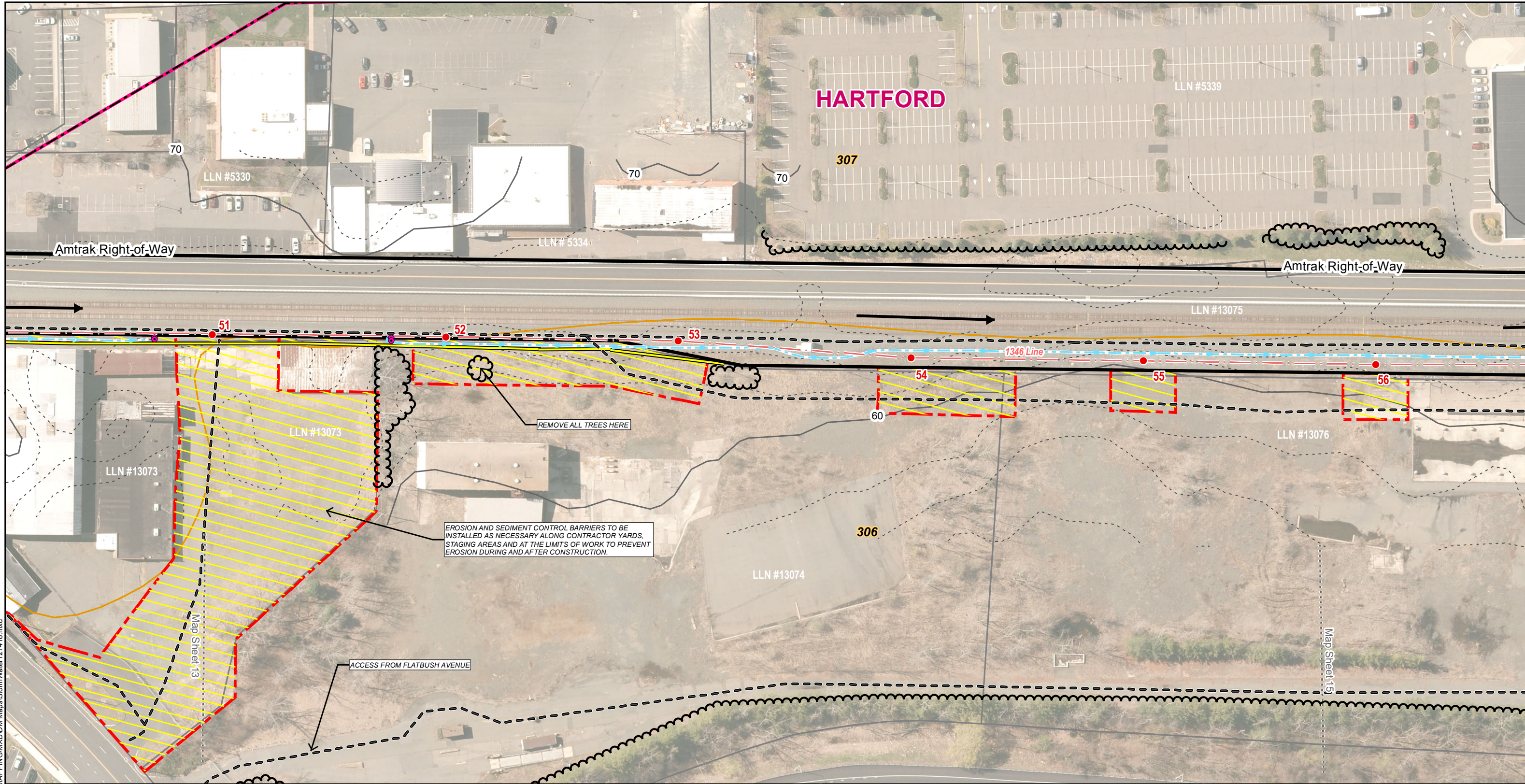
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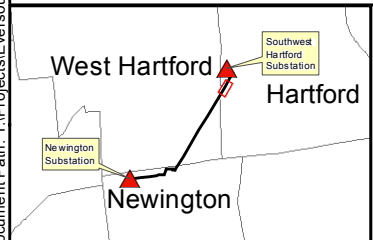
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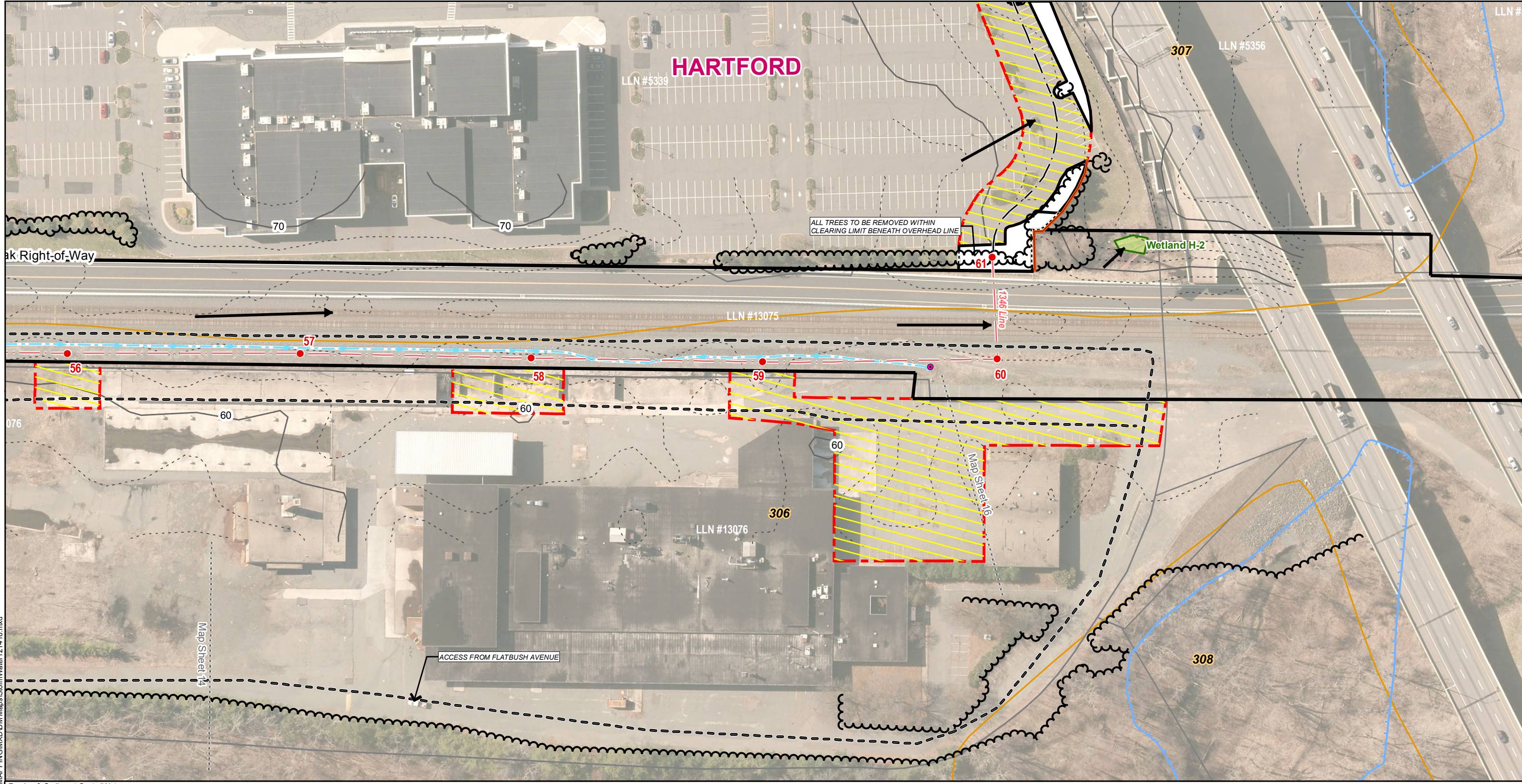
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Erosion & Sediment Control Notes:

1. The limits of tree clearing, as shown, define areas where vegetation removal and grubbing, grading, and excavation may occur. Minor deviations may be required in some locations. Additionally, danger or hazard tree removal may be required outside of the tree clearing limits.
2. All work will be conducted in accordance with the relevant portions of Eversource's "Best Management Practices Manual for Massachusetts and Connecticut (September 2016)" (BMP Manual), unless more stringent project-specific measures apply. All work will be conducted in accordance with the requirements of siting approvals from the Council and regulatory approvals from the U.S. Army Corps of Engineers and the Connecticut Department of Energy and Environmental Protection, and with all project protocols.
3. Erosion and Sedimentation Control Measures will be installed during construction, as required, to comply with the provisions, as applicable, of the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, Eversource's BMP Manual, and regulatory approvals.
4. Existing culverts will be protected, as deemed necessary, to prevent damage during construction. Inlet protection shall be installed for any stormwater catch basin within the work zone.
5. Paved surfaces shall be protected during construction as necessary and any damage to surfaces shall be repaired at the expense of the contractor. Safety signage to indicate construction work zones shall be installed along public roads as necessary and as required through coordination with state and local entities.
6. Spoils resulting from construction activities shall be stockpiled in designated areas and will be disposed of in accordance with regulatory requirements.
7. Erosion and sediment control barriers to be installed as necessary along wetland boundary and limits of work to prevent sedimentation to wetlands during and after construction and restoration activities.

* No Highly Erodible Soils Present in Plan View Extent
 1" = 100' 5/3/2018 rev. 12/14/2018
 0 50 100 Feet

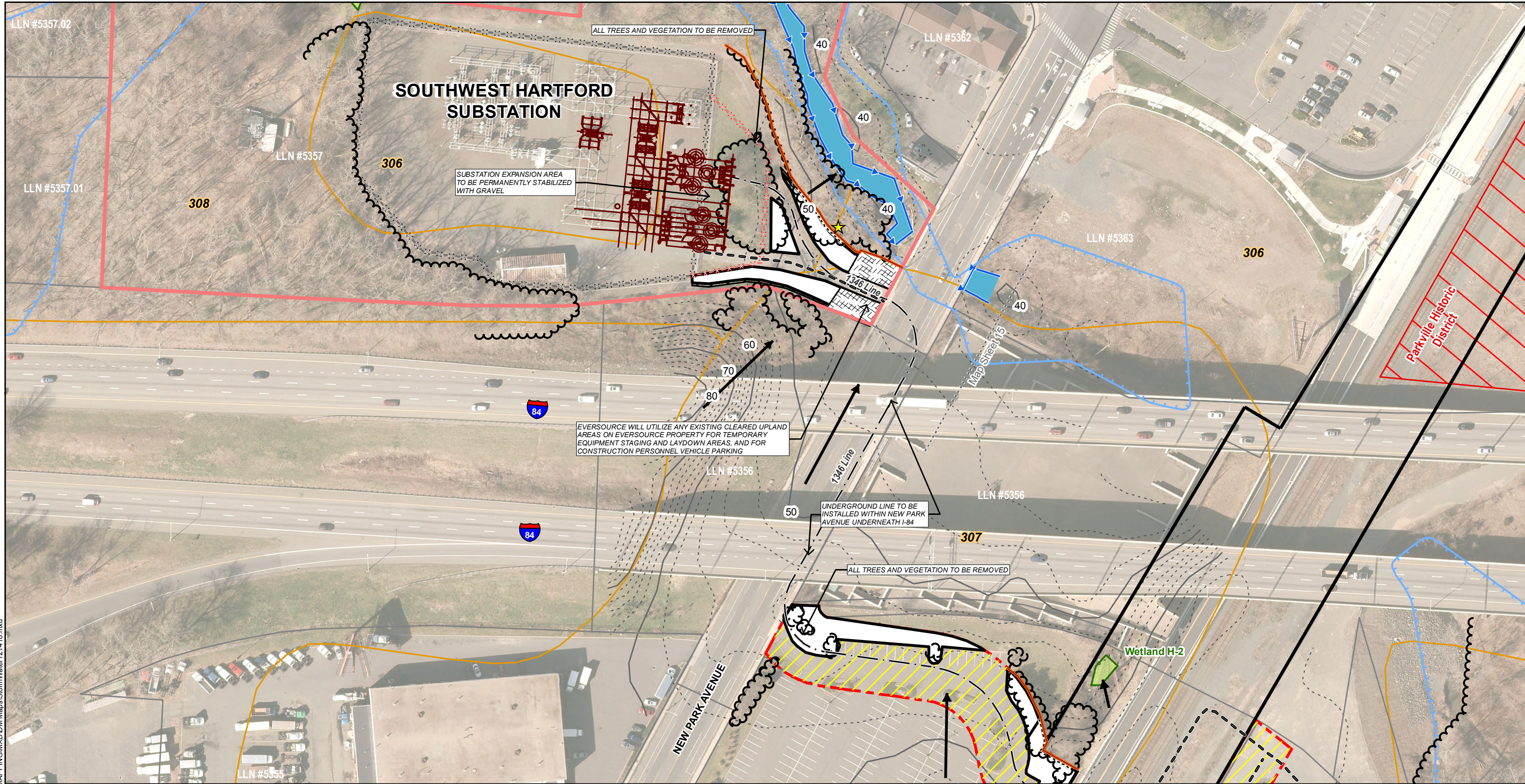
	<ul style="list-style-type: none"> ● Proposed Structure <i>Str Label</i> ○ Existing Structure to be Removed <i>Str Label</i> ● Existing Structure <i>Str Label</i> ● Culvert (centerpoint) — 1346 — Underground Eversource Line — 1346 — Overhead Eversource Line ▭ Eversource Owned Property ▭ Eversource Right of Way 	<ul style="list-style-type: none"> ▬ Amtrak Right-of-Way ▬ Proposed Fence ▬ Existing Fence ~ Approximate Tree Line ▬ Vegetation Limit After Construction ▬ Proposed Tree Clearing Line ▬ Erosion and Sediment Control Barrier ▬ Water Bar 	<ul style="list-style-type: none"> ▬ Non-Jurisdictional Ditch ▬ Delineated Perennial Watercourse ▬ Delineated Intermittent Watercourse ▬ Delineated Wetland Boundary Outline ▬ Field Delineated Wetland ▬ FEMA 100-Year Flood Zone ▬ Floodway ▬ Direction of Stormwater Runoff 	<ul style="list-style-type: none"> ★ Potential Stormwater Sampling Location ▭ NRCS Soils <i>Map Unit Symbol</i> ▬ Existing Access ▬ Proposed Access ▬ Access Road to be Improved ▬ 2 Foot Contour ▬ 10 Foot Contour ▬ Parcel Boundary 	<ul style="list-style-type: none"> ▬ Municipal Boundary ▬ Historic District ▬ Construction Tracking Pad ▬ Temporary Construction Matting ▬ Stone Work Pad ▬ Area of Disturbance ▬ Temporary Workspace
	<p>LLN # LLNs / Property Owner</p>				

EVERSOURCE

Greater Hartford-Central Connecticut Reliability Project (GHCCRP)
 Stormwater Pollution Control Plan
 Newington, West Hartford, Hartford, CT



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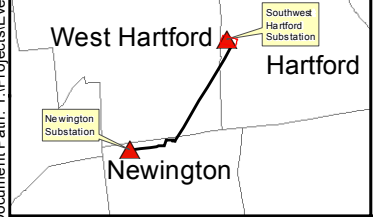
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* No Highly Erodible Soils Present in Plan View Extent
 1" = 100' 5/3/2018 rev. 12/14/2018
 0 50 100 Feet

<ul style="list-style-type: none"> ● Proposed Structure <i>Str Label</i> ○ Existing Structure to be Removed <i>Str Label</i> ● Existing Structure <i>Str Label</i> ● Culvert (centerpoint) -1346- Underground Eversource Line -1346- Overhead Eversource Line ■ Eversource Owned Property ■ Eversource Right of Way 	<ul style="list-style-type: none"> — Amtrak Right-of-Way — Proposed Fence — Existing Fence ~ Approximate Tree Line — Vegetation Limit After Construction — Proposed Tree Clearing Line — Erosion and Sediment Control Barrier — Water Bar 	<ul style="list-style-type: none"> — Non-Jurisdictional Ditch — Delineated Perennial Watercourse — Delineated Intermittent Watercourse — Delineated Wetland Boundary Outline — Field Delineated Wetland — FEMA 100-Year Flood Zone — Floodway → Direction of Stormwater Runoff 	<ul style="list-style-type: none"> ★ Potential Stormwater Sampling Location ■ NRCS Soils <i>Map Unit Symbol</i> — Existing Access — Proposed Access — Access Road to be Improved — 2 Foot Contour — 10 Foot Contour — Parcel Boundary 	<ul style="list-style-type: none"> — Municipal Boundary — Historic District — Construction Tracking Pad — Temporary Construction Matting — Stone Work Pad — Area of Disturbance — Temporary Workspace
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LLN # LLNs / Property Owner



EVERSOURCE
 Greater Hartford-Central Connecticut Reliability Project (GHCCRP)
 Stormwater Pollution Control Plan
 Newington, West Hartford, Hartford, CT

Project Mapping
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AECOM

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Soils Crossed by the Greater Hartford-Central Connecticut Reliability Project

Map Unit Symbol	Soil Series Map Unit Name	Highly Erodible Land	Drainage Class	Hydrological Soil Group	Wind Erodibility
5	Wilbraham silt loam	N	Poorly drained	C/D	5
9	Scitico, Shaker, and Maybid soils	N	Poorly drained	C/D	6
10	Raynham silt loam	N	Poorly drained	C/D	5
15	Scarboro muck	N	Very poorly drained	A/D	2
20A	Ellington silt loam, 0 to 5 percent slopes	N	Moderately well drained	B	5
27A	Belgrade silt loam, 0 to 5 percent slopes	N	Moderately well drained	C	5
29A	Agawam fine sandy loam, 0 to 3 percent slopes	N	Well drained	B	3
30B	Branford silt loam, 3 to 8 percent slopes	N	Well drained	B	5
33A	Hartford sandy loam, 0 to 3 percent slopes	N	Somewhat excessively drained	A	3
33B	Hartford sandy loam, 3 to 8 percent slopes	N	Somewhat excessively drained	A	3
41B	Ludlow silt loam, 2 to 8 percent slopes, very stony	N	Moderately well drained	C	5
87B	Wethersfield loam, 3 to 8 percent slopes	N	Well drained	C	5
104	Bash silt loam	N	Somewhat poorly drained	B/D	3
221A	Ninigret-Urban land complex, 0 to 5 percent slopes	N	Moderately well drained	B	3
225B	Brancroft-Urban land complex, 0 to 8 percent slopes	N	Moderately well drained	C	6
228B	Elmridge-Urban land complex, 0 to 8 percent slopes	N	Moderately well drained	C	3
230B	Branford-Urban land complex, 0 to 8 percent slopes	N	Well drained	B	5
287B	Wethersfield-Urban land complex, 3 to 8 percent slopes	N	Well drained	C	5
287C	Wethersfield-Urban land complex, 8 to 15 percent slopes	N	Well drained	C	5
302	Dumps	N	Not rated		
304	Udorthents, loamy, very steep	N	Well drained	B	5
306	Udorthents-Urban land complex	N	Well drained	B	5
307	Urban land	N	Not rated	D	
308	Udorthents, smoothed	N	Moderately well drained	C	5
309	Udorthents, flood control	N	Moderately well drained	C	5

Source: NRCS Soil Data Mart for Hartford County, CT

a: The Highly Erodible Land classification was determined by reviewing the NRCS Lists of Map Units that Qualify as Highly Erodible Land and Potentially Highly Erodible Land for Hartford County, Connecticut (Correlated and Published, 1980;

<https://efotg.sc.egov.usda.gov/references/public/CT/highlyerodibleunits.pdf>)

b: The Drainage Class was determined by reviewing the assigned drainage class provided by the NRCS's Soil Data Mart.

c: The Hydrologic Soil Group (HSG) was determined by reviewing the assigned HSG rating provided by the NRCS Soil Data Mart. Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation for long-duration storm s. Soils in Group A have a high infiltration rate (low runoff potential), while soils in Group D have a slow infiltration rate (high runoff potential).

d: The Wind Erodibility Group classification for each of the soils was determined by reviewing the physical soil properties data provided by the NRCS's Soil Data Mart. The NRCS has grouped soils that have similar properties affecting their susceptibility to wind erosion. The soils assigned to Group 1 are the most susceptible to wind erosion, and those assigned to Group 8 are the least susceptible. No Rating or None: There is no associated Erosion Potential, Capability Class, Drainage Characteristic or Wind Erodibility group associated with the soil map unit referenced in the NRCS's Soil Data Mart .

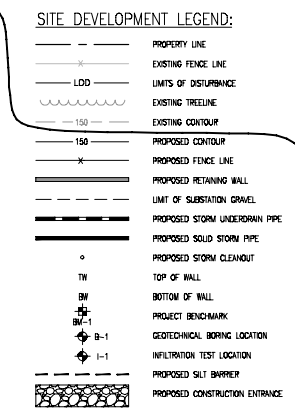
				EVERSOURCE	
				Greater Hartford-Central Connecticut Reliability Project (GHCCRP) Stormwater Pollution Control Plan Newington, West Hartford, Hartford, CT	
				Soils Sheet	
				AECOM	
NO.	DATE	REVISIONS	BY	CHK	APP
					12/14/2018

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6/27/2017 10:07 AM - Admin - Z:\chem\11011025\11011025.dwg - 21:Chem\11011025\11011025.dwg - 11/15/2016 10:45 AM - P - Additions

BENCHMARK	NORTHING	EASTING	TYPE
BM-1	822469.72	999726.30	EXISTING
BM-2	822268.07	999720.31	PROPOSED
BM-3	822272.48	999684.29	PROPOSED
BM-4	822272.29	999685.12	EXISTING
BM-5	822186.21	999748.57	PROPOSED
BM-6	822187.50	999625.83	PROPOSED

ITEM	AMOUNT	UNIT
CLEAR & GRUB APPROX	1,700	SY
WALCH & SEED	600	CY
TOPSOIL STRIPPED	300	CY
TOPSOIL PLACED	175	CY
EXCESS TOPSOIL	125	CY
TOTAL CUT	200	CY
TOTAL FILL RETD	600	CY
SPRINKLE 15% ADDITIONAL FILL RETD	100	CY
REMOVE EXISTING ROAD SURFACE	300	CY
AGGREGATE BASE SURFACE COURSE	0	SY
ROAD BASE COURSE	0	CY
3/4" TRAP ROCK YARD SURFACE	130	CY



- SITE DEVELOPMENT NOTES:**
- THIS PLAN IS BASED UPON EXISTING CONDITIONS SURVEY PROVIDED BY EVERSOURCE DATED MARCH 1, 2016 AND REFERENCE DRAWING 19402-11004, REV B IMPROVEMENTS.
 - HORIZONTAL SURVEY DATUM REFERS TO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD83.
 - VERTICAL SURVEY DATUM REFERS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
 - UNDERGROUND UTILITY, STRUCTURE, AND FACILITY LOCATIONS DEPICTED HEREIN HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES, AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH UNDISCOVERED FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN. THE EXISTENCE, SIZE, AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG - 1-800-922-4800.
 - THE CONTRACTOR SHALL CONDUCT ALL EARTH DISTURBING ACTIVITIES IN A MANNER TO MITIGATE SOIL EROSION AND SEDIMENT LOSS. THE LOSS, THE WORK, AND EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND THE NATION'S UTILITIES BEST MANAGEMENT PRACTICES MANUAL, CONNECTICUT, DATED DECEMBER 2011. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE AND SHALL BE LEFT IN PLACE UNTIL THE COMPLETION OF THE PROJECT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL ADJUST EROSION AND SEDIMENTATION MEASURES TO MAINTAIN SEDIMENTATION AND EROSION CONTROL.
 - THE SITE DEVELOPMENT CONTRACTOR SHALL COORDINATE AND SCHEDULE HIS SITE GRADING ACTIVITIES WITH THE OWNER, THE CONSTRUCTION LIMIT OF THE PROJECT EXTENDS TO THE LIMIT OF DISTURBANCE LINE, GRADING AND LIFTING/WORK LIMIT OF DISTURBANCE (LOD) AREA TOTAL = 0.80 ACRES.
 - AREAS WITHIN THE EXISTING SUBSTATION THAT ARE DISTURBED DURING CONSTRUCTION AND EXPANDED SUBSTATION AREA, INCLUDING AREAS 4'-1" OUTSIDE THE NEW FENCE LINE, SHALL BE SURFACED WITH 4-INCH THICK LAYER OF TRAP ROCK (GRAVEL) ON PROPERLY PREPARED SUBGRADE PER EROSION/SEDIMENTATION.
 - CONTRACTOR SHALL INSTALL 4-INCHES OF TOPSOIL AND SEED IN AREAS WITHIN THE LIMITS OF DISTURBANCE THAT ARE NOT OTHERWISE SURFACED WITH GRAVEL.
 - PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISHED GRADE, UNLESS OTHERWISE NOTED.
 - ACCORDING TO FEMA FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 080402040A AND 080402040B DATED SEPTEMBER 26, 2006, THE PROJECT IS LOCATED WITHIN ZONE X; AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
 - SOIL BORING LOCATIONS AND GEOTECHNICAL INFORMATION BASED UPON GEOTECHNICAL REPORT ENTITLED "GEOTECHNICAL ENGINEERING REPORT, PROPOSED SUBSTATION EXPANSION, EVERSOURCE NEWINGTON SUBSTATION, NEWINGTON, CONNECTICUT" BY TERRACON CONSULTANTS, INC. DATED APRIL 22, 2016.
 - CONTRACTOR SHALL NOT HAVE ANY NEGATIVE IMPACTS TO WETLANDS OR ADJACENT PROPERTIES DURING CONSTRUCTION.
 - CONTRACTOR SHALL INSTALL TURF REINFORCEMENT MATS ON ANY NEW 3' H: 1' V EARTH SLOPES (NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL).
 - SUBSTATION EXPANSION SURFACE AREA SHALL BE GRADED TO DRAIN STORMWATER RUNOFF AWAY FROM THE PROPOSED RETAINING WALL.
 - SITE DEVELOPMENT AS-BUILT SURVEY REQUIRED UPON COMPLETION OF SITE WORK CONSTRUCTION SCOPE. AS-BUILT DRAWINGS SHALL INCLUDE A NOTE TO REFERENCE THE FINAL RETAINING WALL DESIGN DRAWINGS AND CALCULATIONS.
 - REFER TO DRAWING 19402-11004 FOR FOUNDATION PLAN. REFER TO DRAWING 19402-11011 FOR RETAINING WALL AND FENCE LAYOUT AND DETAILS.
 - SITE DEVELOPMENT WORKS SHALL ADHERE TO SUBRO AND SUBDIO.

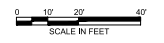
STORMWATER PIPE SCHEDULE

PIPE	STRUCTURE	INVERT UP	STRUCTURE DOWN	INVERT DOWN	DIAMETER	MATERIAL	LENGTH
1	CLEANOUT 1	152.40	CLEANOUT 2	152.29	6"	PERF. HDPE	35'
2	CLEANOUT 2	152.29	CLEANOUT 3	152.27	6"	PERF. HDPE	8'
3	CLEANOUT 3	152.27	CLEANOUT 4	152.01	6"	PERF. HDPE	8.7'
4	CLEANOUT 4	152.01	CLEANOUT 5	151.97	8"	PERF. HDPE	12'
5	CLEANOUT 5	151.97	CLEANOUT 6	151.18	12"	PERF. HDPE	264'
6	CLEANOUT 6	151.18	ENDWALL	151.00	12"	HDPE**	61'
7	PIPE 8/11	152.26	PIPE 5	151.28	6"	SOLID HDPE	42'
8	CLEANOUT 8	152.65	PIPE 11/7	152.06	6"	PERF. HDPE	79'
9	CLEANOUT 9	152.65	PIPE 12/11	152.21	6"	PERF. HDPE	104'
10	CLEANOUT 10	152.80	PIPE 9	152.63	6"	PERF. HDPE	41'
11	PIPE 9/12	152.21	PIPE 8/7	152.26	6"	PERF. HDPE	38'
12	CLEANOUT 7	152.71	PIPE 9/11	152.21	6"	PERF. HDPE	120'
13	CLEANOUT 11	152.84	PIPE 12	152.68	6"	PERF. HDPE	37'

** HDPE PIPE SHALL TRANSITION FROM PERFORATED TO SOLID PIPE WHERE INDICATED

REFERENCE DRAWINGS 19402:

19402-1000	PROPOSED ADDITION SITE PLAN
19402-11004	FOUNDATION PLAN
19402-11010	YARD EXPANSION - GRADING CROSS SECTIONS
19402-11010	YARD EXPANSION - CONSTRUCTION DETAILS
19402-11011	RETAINING WALL - PRT
19402-33008	11541 YARD ARRANGEMENT PLAN
19402-33008	CONDUIT PLAN
19402-33011	FENCE & GRADING PLAN



BURNS & MCDONNELL
 THE REGISTRANT OF THE NEWLY APPLIED SEAL DATED 06/08/2017 ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) P

REV P ADDITIONS (NEW DRAWING)

NO.	DATE	BY	CHKD.	APP.
1	06/17/17	JA	JA	JA

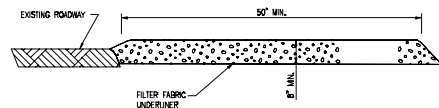
EVERSOURCE ENERGY

NEWINGTON 4A
 YARD EXPANSION - GRADING PLAN
 CIVIL PLAN & DETAILS
 NEWINGTON, CT

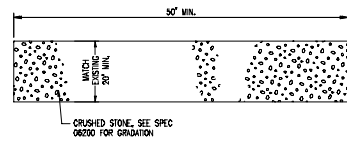
NO.	DATE	BY	CHKD.	APP.	R.P.
1	12/16/16	DAE	01/15/16	DAE	01/22/16
2	01/15/16	DAE	01/22/16	DAE	05/11/16

SCALE: 1" = 20'
 1" = 20'

PROJECT NUMBER: 19402-11010 PG. 1



SIDE ELEVATION



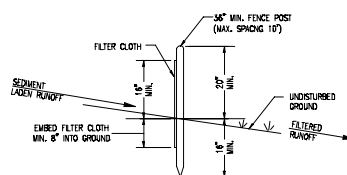
TEMPORARY STONE CONSTRUCTION ENTRANCE
NOT TO SCALE

TEMPORARY STONE CONSTRUCTION ENTRANCE
CONSTRUCTION SPECIFICATIONS

1. THE AREA OF THE ENTRANCE MUST BE EXCAVATED A MINIMUM OF 3 INCHES AND MUST BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBSTRUCTIONABLE MATERIAL. THE FILTER FABRIC UNDERLAYER WILL THEN BE PLACED THE FULL WIDTH AND LENGTH OF THE ENTRANCE.
2. FOLLOWING THE INSTALLATION OF THE FILTER CLOTH, THE STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. CONVEYANCE OF SURFACE WATER UNDER ENTRANCE, THROUGH CULVERTS, SHALL BE PROVIDED AS REQUIRED. IF SUCH CONVEYANCE IS IMPOSSIBLE, THE CONSTRUCTION OF A "MOUNTAIN" BEAM WITH 5:1 SLOPES WILL BE PERMITTED.
3. THE FILTER CLOTH UTILIZED SHALL BE A NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CHAIN POLYMERIC FILAMENTS OR YARNS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS AND BE MILDWEAR AND ROT RESISTANT.

MAINTENANCE

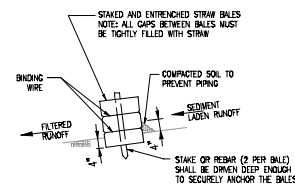
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
2. SITE DEVELOPMENT CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PUBLIC STREETS FREE OF CONSTRUCTION DEBRIS AND SEDIMENT.



SILT BARRIER
NOT TO SCALE

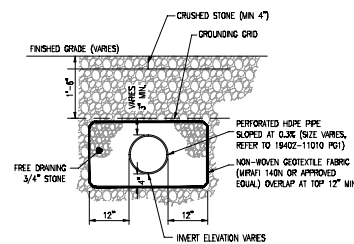
CONSTRUCTION NOTES FOR FABRICATED SILT BARRIER

1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

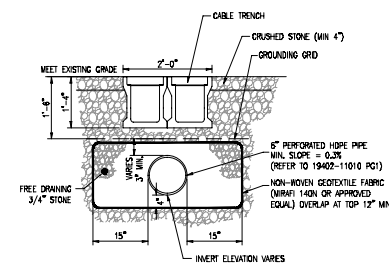


STRAW BALE DIKE (S.B.D.)
NOT TO SCALE

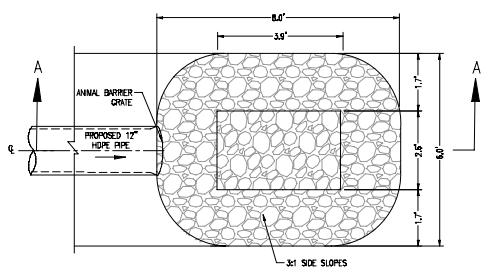
NOTE: THE STRAW BALE DIKE MAY BE SUBSTITUTED FOR GEOTEXTILE SILT FENCE AT CONTRACTOR'S OPTION



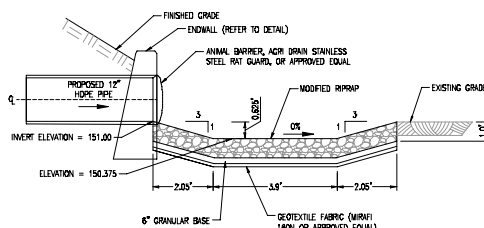
UNDERDRAIN
NOT TO SCALE



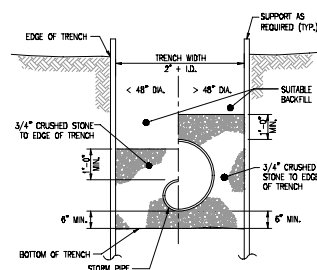
UNDERDRAIN BELOW CABLE TRENCH
NOT TO SCALE



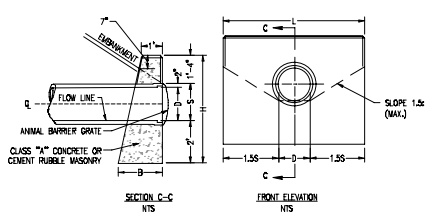
PLAN VIEW



SECTION A-A
TYPE 1 PREFORMED SCOUR HOLE
NOT TO SCALE



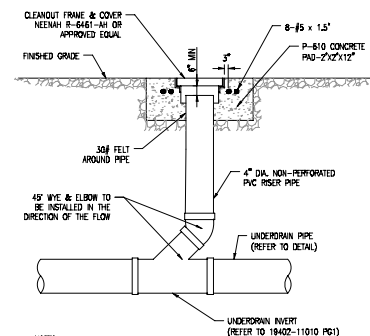
STORMWATER PIPE TRENCH
TYPICAL CROSS SECTION
NOT TO SCALE



DIMENSIONS AND QUANTITIES FOR ONE ENDWALL BASED ON 6" x 8" x 2"			
D	S	L	VOL.
12"	1'-2"	4'-8"	2.2'
			1'-11.2" 1.10 (CB)

* VOLUME IS BASED ON D MINUS WALL THICKNESS AT 6" OF PIPE
NOTE: SOURCE OF DETAIL IS THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY DETAILS 118-306.01

CONCRETE ENDWALL DETAIL
NOT TO SCALE



- NOTES:
1. CLEANOUT FRAME AND COVER SHALL BE DESIGNED TO 15-20 LOADINGS.
 2. NO LOAD SHALL BE TRANSFERRED FROM FRAME AND COVER TO PVC UNDERDRAIN CLEANOUT OR COLLECTION STRUCTURE.
 3. ALL UNDERDRAIN CLEANOUT AND COLLECTION STRUCTURE COVERS SHALL BE BOLT DOWN TYPE.
 4. REFER TO ELECTRICAL DRAWINGS FOR CABLE TRENCH LAYOUT AND DETAILS.
 5. STANDARD MANUFACTURER'S FITTINGS SHALL BE USED TO CONNECT VERTICAL CLEANOUTS TO UNDERDRAIN PIPING.

UNDERDRAIN CLEANOUT
NOT TO SCALE

REFERENCE DRAWINGS 19402:

- 18402-10006 PROPOSED ADDITION SITE PLAN
- 18402-11010 P01 YARD EXPANSION - GRADING PLAN
- 18402-11010 P02 YARD EXPANSION - GRADING CROSS SECTIONS

BURNS MEDONNELL THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED 06/08/2017, ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) _____.

REV P NEW DRAWING

REVISIONS DURING CONSTRUCTION					
NO.	DATE	BY	CHK	APP	REASON
P	08/17	JT, JIA AND LISA	ADDITON	NO	FOR CHANGES AS INDICATED BY THE FOLLOWING REVISION(S)

EVSOURCE ENERGY

NEWINGTON 4A
YARD EXPANSION - CONSTRUCTION DETAILS
CIVIL PLAN & DETAILS
NEWINGTON, CT

NO.	DATE	BY	CHK	APP	REASON		
1	12/03/15	DL	01/15/16	DL	01/22/16	DL	06/11/16
2	N.L.S.	DL	E	DL	DL	DL	DL
3	N.L.S.	DL	DL	DL	DL	DL	DL

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I. WETLANDS AVOIDANCE AND MINIMIZATION MEASURES

THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS TO WETLANDS DURING PROJECT ACTIVITIES. ALL WORK IN OR NEAR WETLANDS WILL BE IN ACCORDANCE WITH PROJECT MAPPING, EVERSOURCE'S BEST MANAGEMENT PRACTICES MANUAL FOR MASSACHUSETTS AND CONNECTICUT (9/2016; "BMP MANUAL"), AND THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL (CONNECTICUT GUIDELINES), AS APPLICABLE. NOTE THAT WETLAND AVOIDANCE AND MINIMIZATION MEASURES DO NOT PRECLUDE THE NEED FOR ADDITIONAL MEASURES FOR OVERLAPPING SENSITIVE RESOURCE AREAS SUCH AS RARE SPECIES HABITAT.

- A. COMPLY WITH THE CONDITIONS OF THE COUNCIL'S CERTIFICATE AND FEDERAL AND STATE PERMITS RELATED TO WETLANDS, INCLUDING THE IMPLEMENTATION OF WETLAND INVASIVE SPECIES CONTROL MEASURES DURING CONSTRUCTION. REFER TO WETLAND INVASIVE SPECIES CONTROL BMPS ON THIS DETAIL SHEET.
- B. USE LOW-IMPACT EQUIPMENT OR INSTALL TEMPORARY TIMBER MATS (OR EQUIVALENT) TO MINIMIZE RUTTING DURING VEGETATION REMOVAL ACTIVITIES IN WETLANDS.
- C. MINIMIZE THE REMOVAL OF STUMPS WITHIN WETLANDS. STUMPS WILL ONLY BE REMOVED IF INTACT STUMPS POSE A SAFETY CONCERN FOR THE INSTALLATION OF ACCESS ROADS, WORK PADS, OR STRUCTURES, THE MOVEMENT OF EQUIPMENT, OR THE SAFETY OF PERSONNEL. ONLY REMOVE SCRUB-SHRUB VEGETATION AS NECESSARY TO ACCOMMODATE PROJECT ACCESS AND WORK AREAS. MATTING MAY BE PLACED DIRECTLY ATOP SHRUBS, WHERE FEASIBLE, TO REDUCE VEGETATION MANAGEMENT IMPACTS AND TO DECREASE COMPACTION FROM MATTING PLACEMENT.
- D. INSTALL EROSION AND SEDIMENTATION (E&S) CONTROLS AROUND WORK SITES IN OR NEAR WETLANDS TO DEFINE THE LIMITS OF CONSTRUCTION ACTIVITY AND TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION. WHERE SILT FENCING IS NOT INSTALLED AROUND TEMPORARY MATTING IN WETLANDS, THE FOOTPRINT OF THE MATTING DEFINES THE LIMIT OF DISTURBANCE. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED IN WETLANDS OUTSIDE OF THE WORK LIMITS DEFINED BY THE EROSION AND SEDIMENTATION CONTROLS OR MATTING.
- E. INSPECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS THROUGHOUT CONSTRUCTION. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES OR OTHER WATERS OF THE U.S., OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
- F. INSTALL TEMPORARY CONSTRUCTION MATTING FOR ACCESS ROADS ACROSS WETLANDS OR TO ESTABLISH SAFE AND STABLE CONSTRUCTION WORK PADS WITHIN WETLANDS.
- G. DURING INITIAL EXCAVATION FOR THE DUCT BANK TRENCH, CONTRACTOR WILL STRIP, SEGREGATE, AND STOCKPILE THE EXISTING WETLAND TOPSOIL LAYER FROM THE TRENCH LINE (DOWN TO A MAXIMUM OF 12-INCHES) FOR LATER RE-USE DURING TRENCH BACKFILL, AT WHICH TIME THE TOPSOIL WILL BE REPLACED AT THE SURFACE TO MATCH PRE-EXISTING GRADES AND CONTOURS.
- H. PROHIBIT STOCKPILING OF EXCESS SOIL GENERATED AS A RESULT OF TRENCH EXCAVATION WITHIN WETLANDS. EXCESS SOIL WILL BE REMOVED FROM WETLAND WORK AREAS AND STOCKPILED AT DESIGNATED UPLAND AREAS OR REMOVED FROM THE SITE FOR DISPOSAL IN ACCORDANCE WITH THE REGULATORY REQUIREMENTS.
- I. CONTRACTOR SHALL SCHEDULE CONSTRUCTION ACTIVITIES IN WETLANDS TO MINIMIZE THE AMOUNT OF TIME THAT AN OPEN TRENCH EXISTS WITHIN WETLANDS FROM INITIAL TRENCHING TO DUCT BANK INSTALLATION AND FINAL BACKFILL AND RESTORATION.
- J. IMPLEMENT PROCEDURES TO AVOID OR MINIMIZE THE POTENTIAL FOR SPILLS INTO WETLANDS (REFER TO BMPS INCLUDED IN VOLUME 2 ATTACHMENT E AND TO THE MATERIALS SUBMITTED TO CT DEEP UNDER SEPARATE COVER: DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES). NO FUEL WILL BE STORED OR EQUIPMENT REFUELED WITHIN 25 FEET OF A WETLAND EXCEPT UNDER THE FOLLOWING CIRCUMSTANCES: ONLY EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK MAY BE REFUELED IN WETLANDS, PROVIDING PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT PROCEDURES ARE FOLLOWED.
- K. PROHIBIT VEHICLES OR EQUIPMENT FROM BEING PARKED OVERNIGHT ON ACCESS ROADS OR WORK PADS IN WETLANDS, EXCEPT FOR EQUIPMENT THAT CANNOT BE PRACTICALLY MOVED.
- L. FOLLOWING THE COMPLETION OF TRANSMISSION LINE WORK, REMOVE TIMBER MATS USED FOR WORK PADS AND TEMPORARY ACCESS ROADS IN WETLANDS.
- M. AFTER TRANSMISSION LINE WORK IS COMPLETE, RESTORE WETLANDS TO PRE-CONSTRUCTION CONFIGURATIONS AND CONTOURS TO THE EXTENT PRACTICABLE, REVEGETATE WITH APPROPRIATE WETLAND SEED MIX.
- N. INSPECT AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS UNTIL RESTORATION HAS BEEN DETERMINED TO BE EFFECTIVE.

II. WATERBODIES AVOIDANCE AND MINIMIZATION MEASURES

THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS TO WATERCOURSES AND WATERBODIES DURING PROJECT ACTIVITIES. ALL WORK IN OR NEAR WATERCOURSES AND WATERBODIES WILL BE IN ACCORDANCE WITH PROJECT MAPPING, EVERSOURCE'S BMP MANUAL (2016), AND THE CONNECTICUT GUIDELINES.

- A. COMPLY WITH RELEVANT PORTIONS OF EVERSOURCE'S BMP MANUAL FOR MASSACHUSETTS AND CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS (9/2016). MANUAL CAN BE FOUND IN VOLUME 2 ATTACHMENT E.
- B. INSTALL AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS ALONG THE RIGHT-OF-WAY WHERE CONSTRUCTION ACTIVITIES DISTURB SOILS NEAR WATERCOURSES TO PREVENT SEDIMENTATION INTO WATER RESOURCES. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL BE PERIODICALLY REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES OR WATERS OF THE U.S., OR WILL OTHERS BE DISPOSED OF OFF-SITE.
- C. NO UNCONFINED IN-STREAM ACTIVITIES ARE PROPOSED OR AUTHORIZED. IN-STREAM WORK WILL NOT BE CONSTRUCTED DURING CONDITIONS OF PEAK FLOWS OR BANK-FULL CONDITIONS. CONSTRUCTION EQUIPMENT WILL BE PROHIBITED FROM FORDING STREAMS.
- D. ACCESS ACROSS WATERCOURSES WILL BE INSTALLED, WHERE PRACTICABLE, SO AS TO AVOID OR MINIMIZE DIRECT ADVERSE IMPACTS TO STREAM BANKS AND STREAM BOTTOM SEDIMENTS, AND TO PROVIDE UNOBSTRUCTED AMBIENT FLOW IN PERENNIAL STREAMS (E.G., SPAN CROSSINGS WILL PROVIDE ADEQUATE CLEARANCE ABOVE WATERCOURSES TO CONVEY FLOWS).
- E. MAT SPANS OR EQUIVALENT ACCESS ACROSS WATERCOURSES WILL BE PERIODICALLY SWEEPED, AS APPROPRIATE TO MINIMIZE THE POTENTIAL FOR SOIL DEPOSITION INTO WATERCOURSES AS A RESULT OF VEHICLE/EQUIPMENT MOVEMENTS.
- F. CONTRACTOR WILL UTILIZE A CONVENTIONAL "DRY OPEN CUT" TRENCHING METHOD TO INSTALL THE UNDERGROUND CABLE AND DUCT BANK ACROSS THESE WATERCOURSES USING COFFER DAM AND STREAM BYPASS PUMPING METHOD ("DAM-AND-PUMP") OR A COFFER DAM AND STREAM BYPASS VIA GRAVITY METHOD ("DAM-AND-FLUME").
- G. EXCEPT FOR EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK, CONSTRUCTION VEHICLES AND EQUIPMENT WILL NOT BE REFUELED WITHIN 25 FEET OF A WATERCOURSE. FOR REFUELING THAT MUST BE PERFORMED LESS THAN 25 FEET FROM A WATERCOURSE, APPROPRIATE SPILL PREVENTION MEASURES SHALL BE IMPLEMENTED. (REFER TO BMPS INCLUDED IN VOLUME 2 ATTACHMENT E AND TO THE MATERIALS SUBMITTED TO CT DEEP UNDER SEPARATE COVER: GERNERAL PERMIT FOR DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES).
- H. NO BULK PETROLEUM PRODUCTS WILL BE STORED WITHIN 25 FEET OF WATERCOURSE.
- I. TEMPORARY MAT SPANS WILL BE REMOVED AND WATERCOURSES WILL BE RESTORED AS DETAILED IN VOLUME 2 ATTACHMENT E AND THE WETLAND AND WATERCOURSE TYPICAL DETAIL SHEET. BANKS WILL BE RESEEDED WITH APPROPRIATE UPLAND (ANNUAL RYE) OR WETLAND SEED MIX. EXCEPT OVER THE TRENCH LINE, NO GRUBBING WILL BE PERFORMED ON STREAM BANKS SO THAT WOODY ROOT SYSTEMS MAY REMAIN IN PLACE AND NATURALLY REVEGETATE FOLLOWING COMPLETION OF CONSTRUCTION. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REMOVED UPON THE STABILIZATION OF EXPOSED SOILS NEAR WATERCOURSES.
- J. DURING INITIAL EXCAVATION FOR THE DUCT BANK TRENCH, IF SUITABLE GRAVEL/COBBLE STREAMBED SUBSTRATES ARE PRESENT OVER THE TRENCH LINE, CONTRACTOR WILL STRIP, SEGREGATE, AND STOCKPILE THE EXISTING STREAMBED SUBSTRATE FROM THE TRENCH LINE (DOWN TO A MAXIMUM OF 12-INCHES) FOR LATER RE-USE DURING TRENCH BACKFILL, AT WHICH TIME THE NATIVE STREAMBED SUBSTRATES WILL BE REPLACED AT THE SURFACE TO MATCH PRE-EXISTING STREAMBED GRADES AND CONTOURS.
- K. IF SUITABLE GRAVEL/COBBLE MATERIAL IS NOT PRESENT IN THE STREAMBED, CONTRACTOR WILL BACKFILL THE UPPER 12-INCHES OF TRENCH WITHIN THE STREAM WITH CLEAN GRAVEL/COBBLE MATERIAL TO MATCH PRE-EXISTING STREAMBED GRADES AND CONTOURS.

III. WETLAND INVASIVE SPECIES BEST MANAGEMENT PRACTICES


TO CONTROL THE SPREAD OF WETLAND INVASIVE PLANT SPECIES, EVERSOURCE WILL REQUIRE CONSTRUCTION CONTRACTORS TO IMPLEMENT THE PROCEDURES DESCRIBED BELOW, AS APPROPRIATE TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED.

- A. ALL CONSTRUCTION EQUIPMENT, VEHICLES, AND MATERIALS (E.G., TIMBER MATS, OR EQUIVALENT) MUST BE CLEAN AND FREE OF EXCESS SOIL, DEBRIS, AND VEGETATION BEFORE BEING MOBILIZED TO THE PROJECT RIGHTS-OF-WAY.
- B. TIMBER MATS OR EQUIVALENT WILL BE USED TO INSTALL ACCESS ROADS AND WORK PADS IN WETLANDS SO CONSTRUCTION VEHICLES THAT FREQUENTLY TRAVEL ALONG ACCESS ROADS, SUCH AS PICKUPS CARRYING PERSONNEL OR MATERIAL DELIVERY TRUCKS, CAN AVOID DIRECT WETLAND INTERACTION.
- C. TIMBER MATS OR EQUIVALENT WILL BE USED IN WETLANDS DURING CLEARING OPERATIONS TO MINIMIZE THE SPREAD OF INVASIVE SPECIES WITHIN A WETLAND BY THE CLEARING EQUIPMENT.
- D. TO MINIMIZE THE POTENTIAL FOR SPREADING INVASIVE PLANT SPECIES FROM WETLAND-TO-WETLAND ALONG THE ROW, ANY EQUIPMENT WORKING IN A WETLAND CONTAINING INVASIVE PLANT SPECIES WILL BE CLEANED PRIOR TO RELOCATING TO A WORK SITE IN ANOTHER WETLAND. CLEANING OF VEHICLES AND OTHER EQUIPMENT THAT COME INTO CONTACT WITH WETLAND VEGETATION (INCLUDING VEHICLE TRACKS AND TIRES) WILL INVOLVE REMOVAL OF VISIBLE DIRT, DEBRIS, AND VEGETATION USING BROOMS, SHOVELS, AND, IF NEEDED, COMPRESSED AIR.
- E. TIMBER MATS (OR EQUIVALENT) USED IN WETLANDS CONTAINING INVASIVE SPECIES WILL BE CLEANED PRIOR TO RELOCATION TO OTHER WORK AREAS OR WETLANDS. MAT CLEANING WILL INVOLVE DROPPING MATS ONE ON TOP OF ANOTHER TO SHAKE LOOSE ANY SEDIMENT AND DEBRIS. WHEN USING THIS METHOD OF CLEANING MATS (AS OPPOSED TO USING A BROOM, SHOVEL, AND/OR COMPRESSED AIR), AVOID IMPACTS TO SENSITIVE RESOURCE AREAS, INCLUDING STREAM BANKS.
- F. SOILS EXCAVATED FROM WETLANDS OR RIPARIAN AREAS CONTAINING A PREDOMINANCE OF TARGET INVASIVE PLANTS WILL BE STOCKPILED SEPARATELY AND CONTAINED WITHIN STAKED BALES, SILT FENCE OR OTHER APPROVED EROSION AND SEDIMENT CONTROL DEVICE TO MINIMIZE THE POTENTIAL OF SPREADING THESE SOILS ELSEWHERE ONTO THE ROW.
- G. FINAL RESTORATION OF THE RIGHT-OF-WAY WILL BE PERFORMED IN ACCORDANCE WITH EVERSOURCE'S 2016 BMP MANUAL. IN LIEU OF "HAY BALE" EROSION CONTROLS (HAY BALES MAY CONTAIN NOXIOUS OR INVASIVE SEED STOCK OR PLANT MATTER), THE CONTRACTOR WILL BE REQUIRED TO USE ALTERNATIVE MEASURES, TO THE EXTENT PRACTICABLE AND IF LOCAL SOURCES ARE AVAILABLE, SUCH AS STRAW BALES, WATTLES, COCONUT ROLLS, WOOD CHIP BAGS OR SILT FENCE.

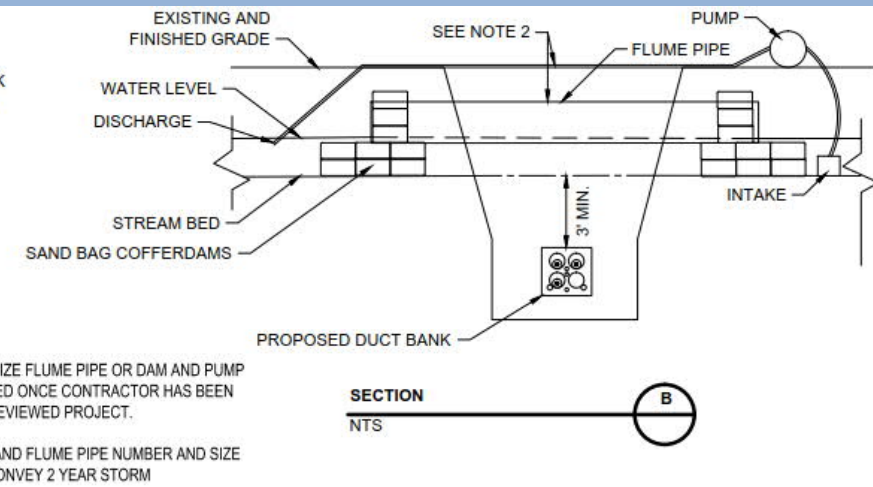
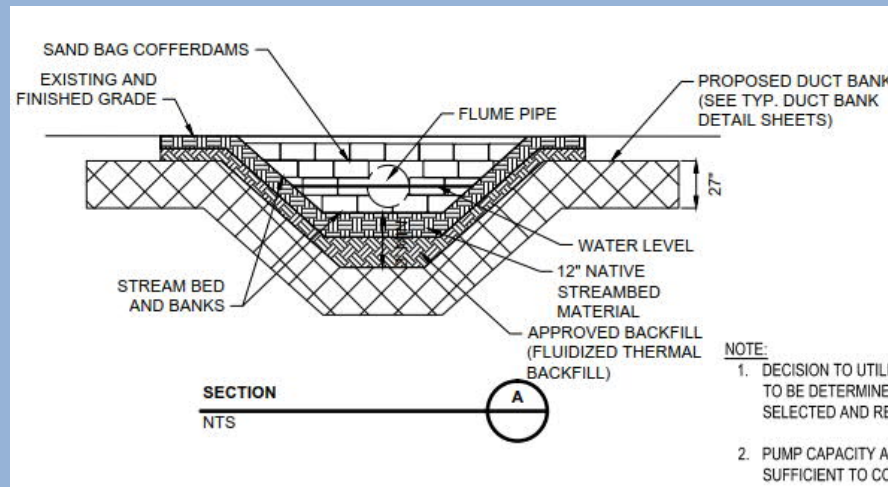
IV. WETLAND RESTORATION

- A. IF NECESSARY, WETLAND AREAS AFFECTED BY CONSTRUCTION WILL BE STABILIZED WITH ANNUAL RYE GRASS, A WETLAND SEED MIX, OR AN EQUIVALENT MIX AT THE LABEL RECOMMENDED SEEDING RATE, WHICH WILL SERVE TO PROVIDE A TEMPORARY VEGETATIVE COVER UNTIL WETLAND SPECIES BECOME REESTABLISHED.
- B. TEMPORARY EROSION AND SEDIMENT CONTROLS WILL BE LEFT IN PLACE AND MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED. RESTORATION TYPICALLY WILL BE DEEMED SUCCESSFUL BASED ON THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. BASED ON THE RESULTS OF INSPECTIONS OF RIGHT-OF-WAY STABILIZATION, EVERSOURCE WILL DETERMINE THE APPROPRIATE TIMEFRAME FOR REMOVING TEMPORARY EROSION CONTROLS.

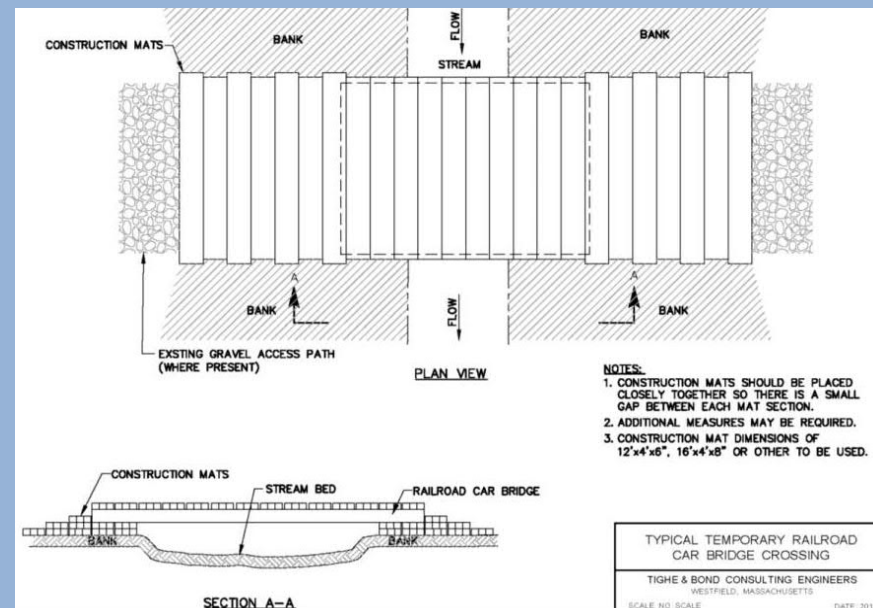
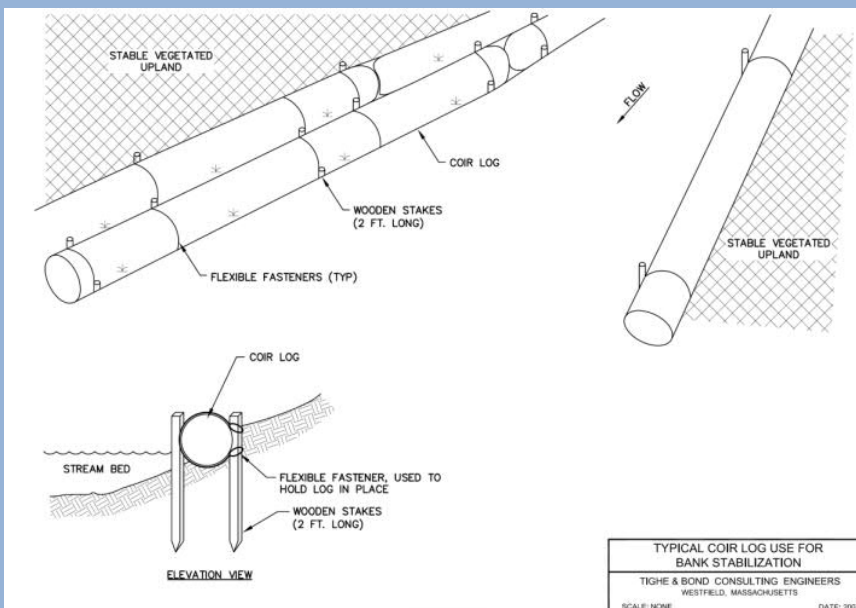
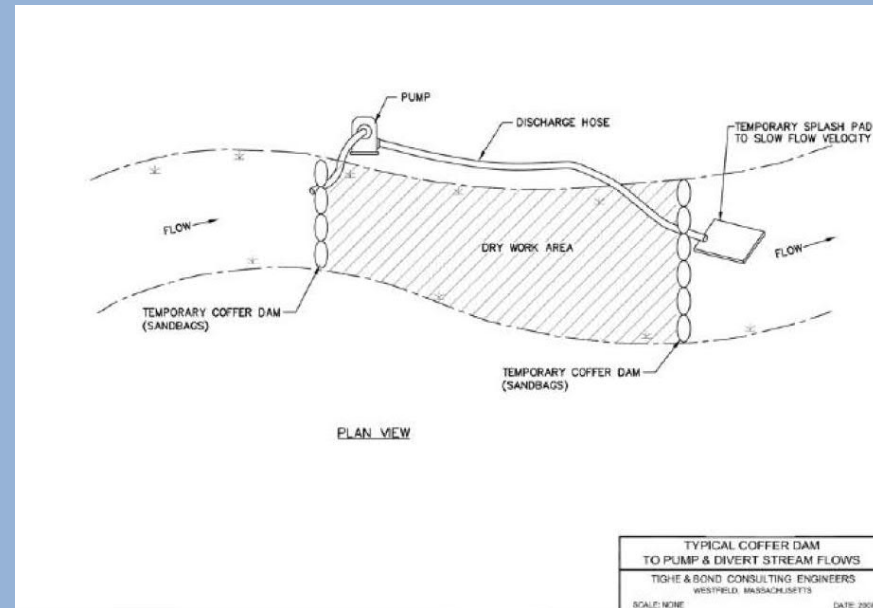
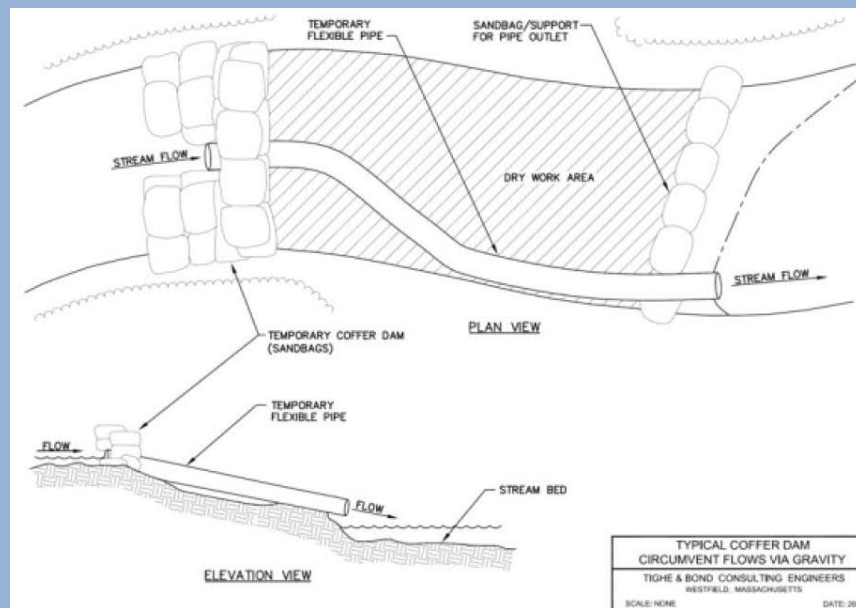
EVERSOURCE					
Greater Hartford-Central Connecticut Reliability Project (GHCCRP) Stormwater Pollution Control Plan					
Newington, West Hartford, Hartford, CT					
Water Resource Protocols					
Detail Sheet 1 of 4					
5/1/2018					
NO.	DATE	REVISIONS	BY	CHK	APP



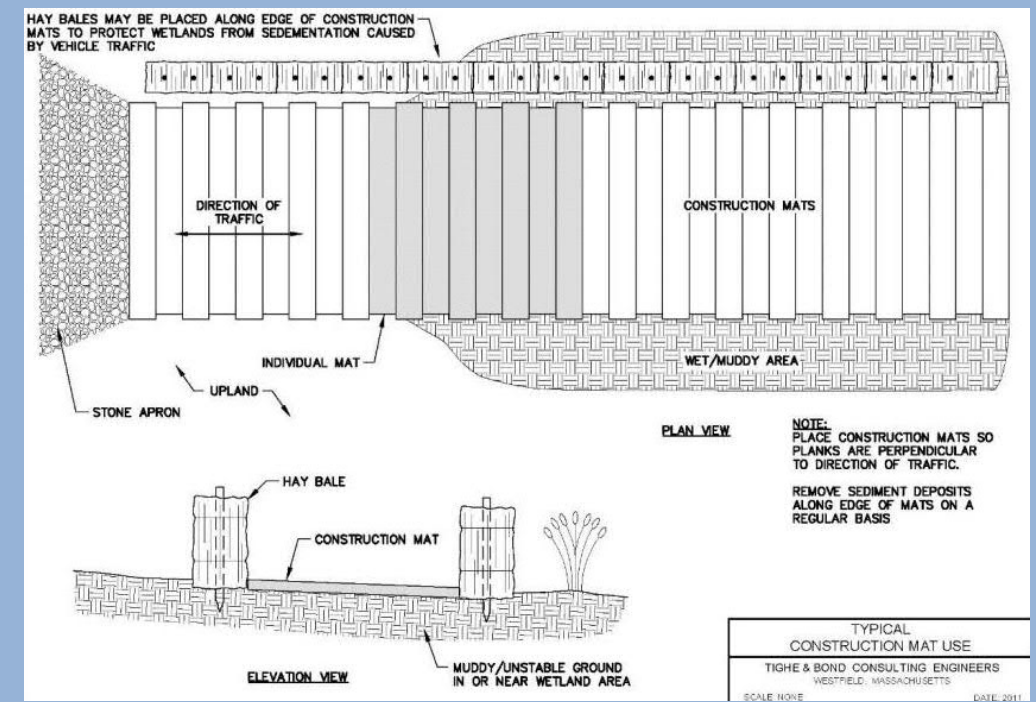
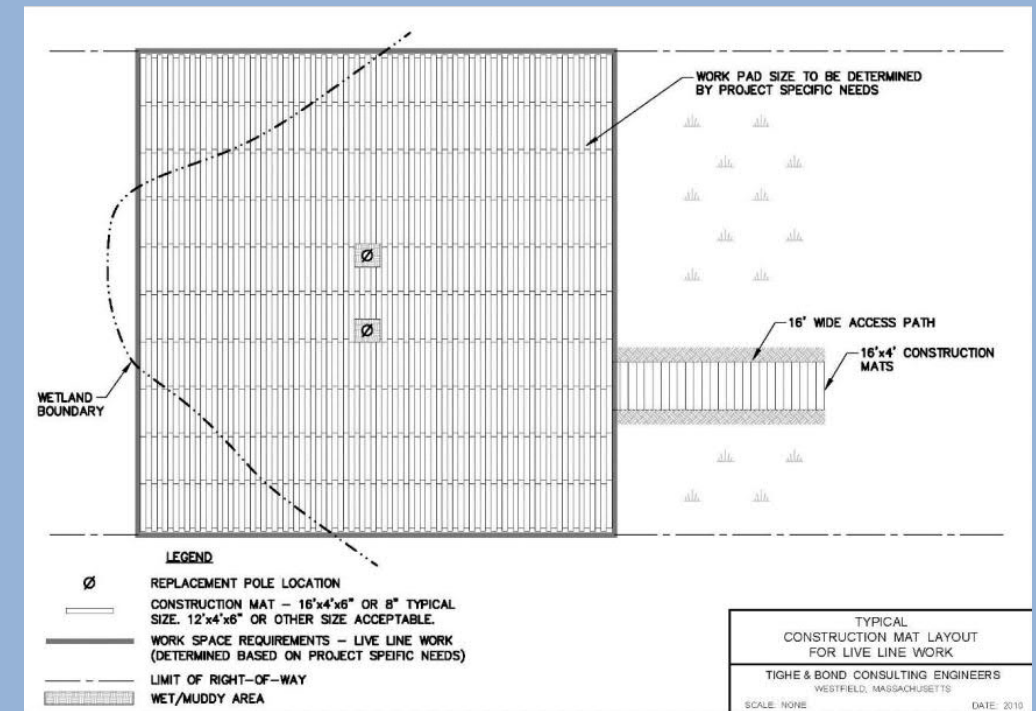
***WETLAND WATERCOURSE CROSSING TYPICAL DETAILS SHOWN HERE ARE PROJECT-WIDE AND SHALL BE IMPLEMENTED AS APPLICABLE FOR THE AUTHORIZED WETLAND AND WATERCOURSE CROSSINGS AND DISTURBANCE AREAS DEPICTED ON THE AERIAL PHOTOGRAPH BASED MAPS INCLUDED IN EACH D&M PLAN.



NOTE:
1. DECISION TO UTILIZE FLUME PIPE OR DAM AND PUMP TO BE DETERMINED ONCE CONTRACTOR HAS BEEN SELECTED AND REVIEWED PROJECT.
2. PUMP CAPACITY AND FLUME PIPE NUMBER AND SIZE SUFFICIENT TO CONVEY 2 YEAR STORM



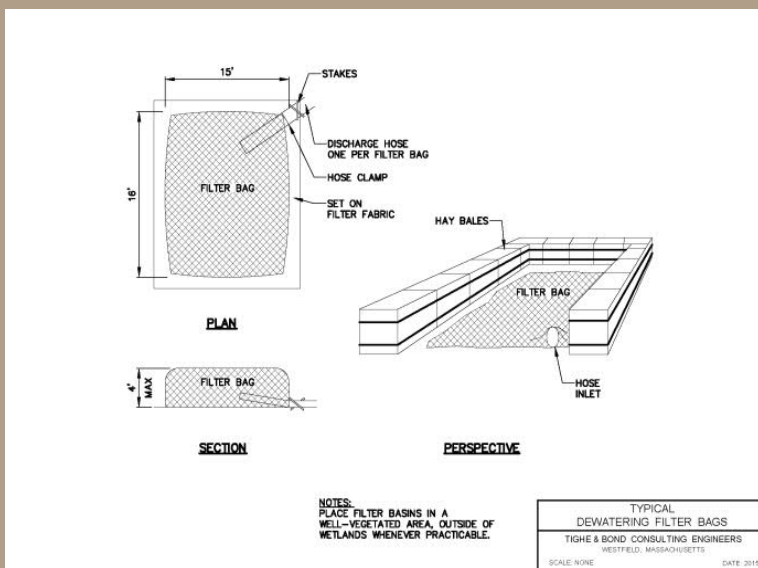
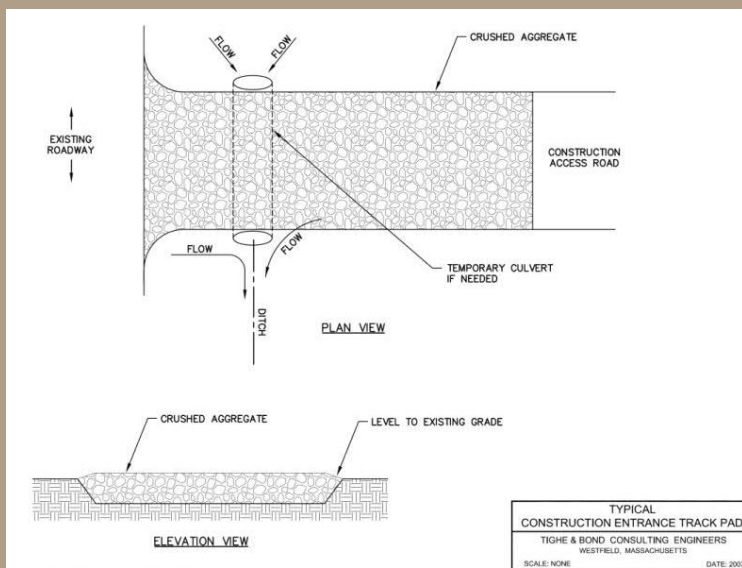
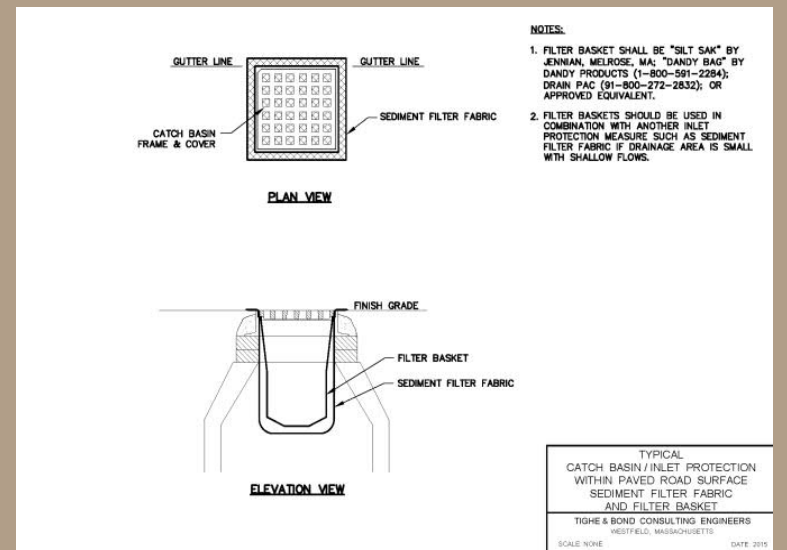
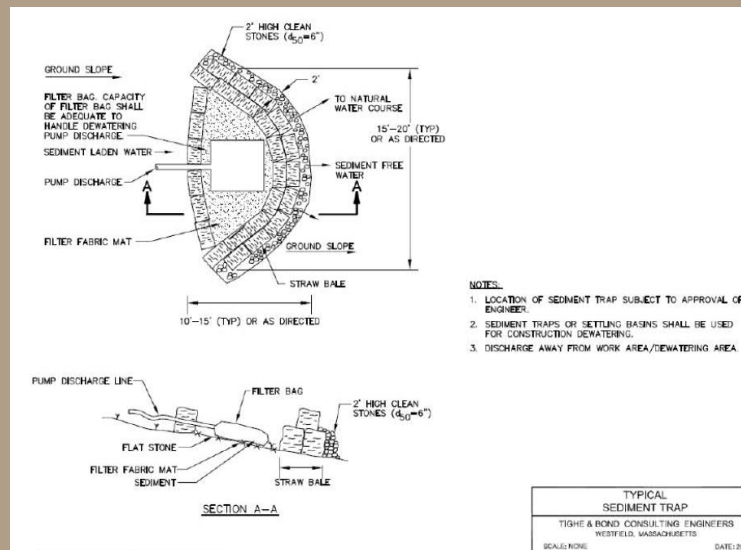
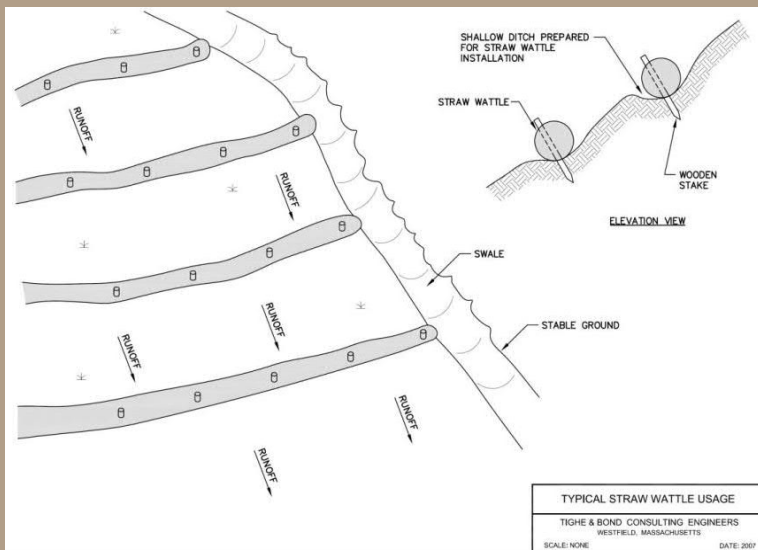
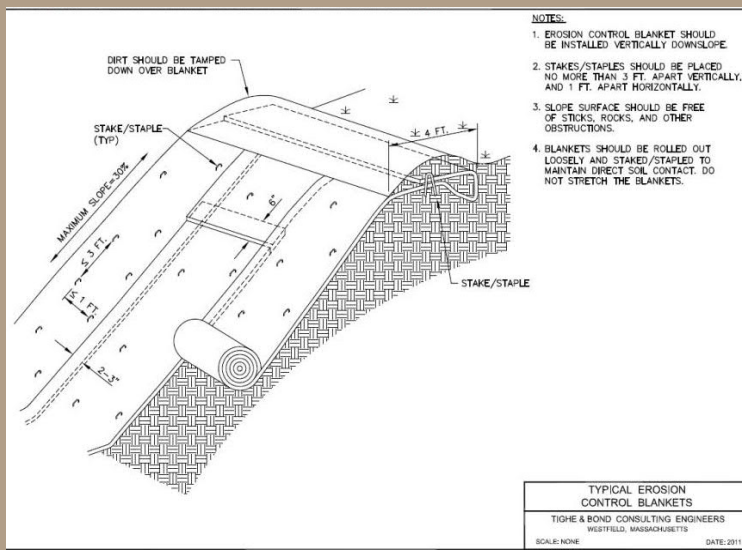
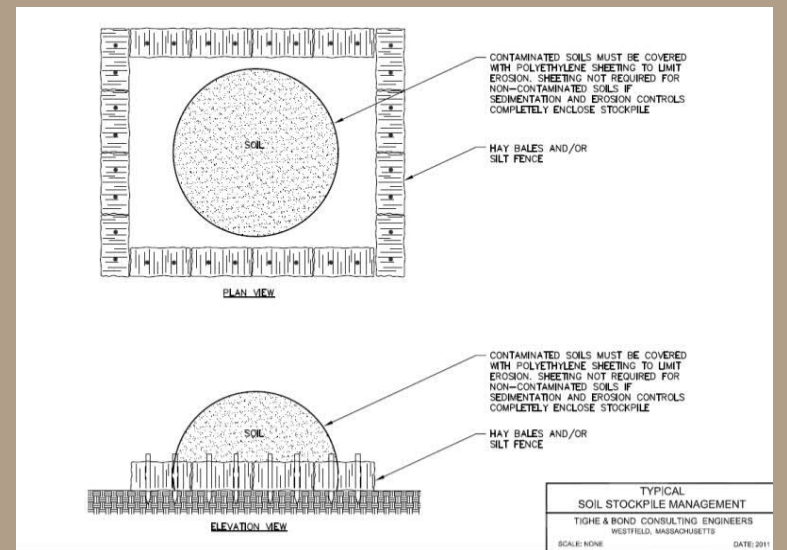
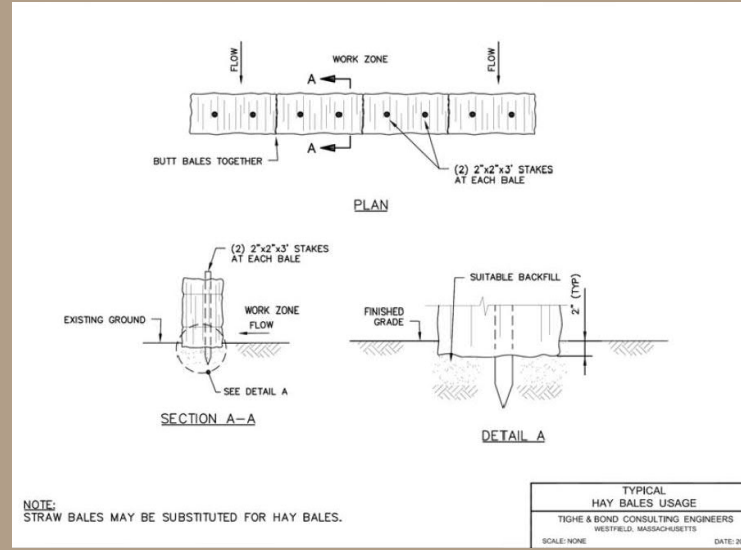
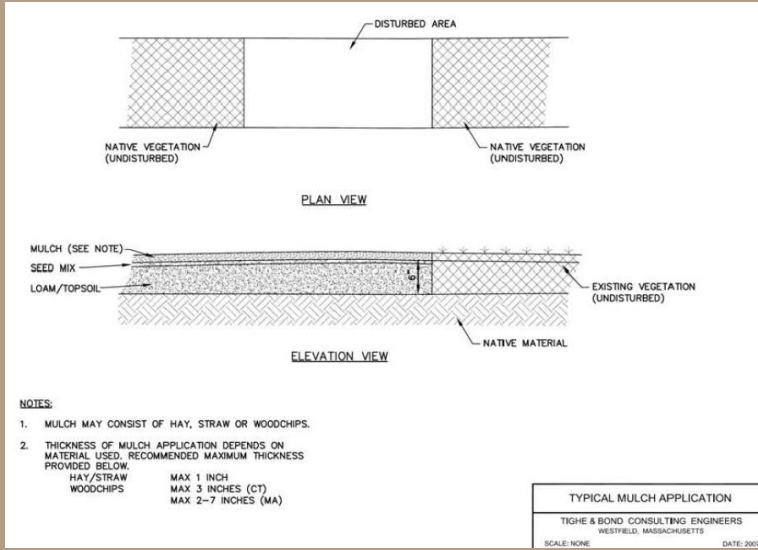
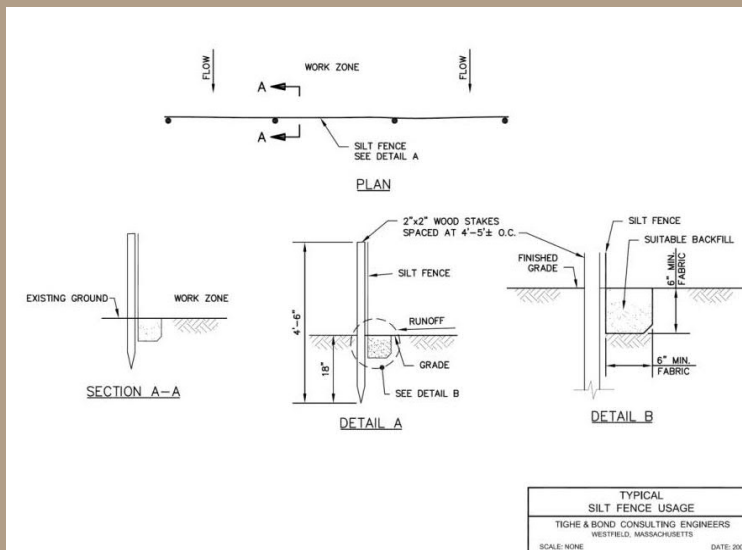
NOTES:
1. CONSTRUCTION MATS SHOULD BE PLACED CLOSELY TOGETHER SO THERE IS A SMALL GAP BETWEEN EACH MAT SECTION.
2. ADDITIONAL MEASURES MAY BE REQUIRED.
3. CONSTRUCTION MAT DIMENSIONS OF 12'x4'x6", 16'x4'x8" OR OTHER TO BE USED.



NOTE:
PLACE CONSTRUCTION MATS SO PLANKS ARE PERPENDICULAR TO DIRECTION OF TRAFFIC.
REMOVE SEDIMENT DEPOSITS ALONG EDGE OF MATS ON A REGULAR BASIS

EVERSOURCE			
Greater Hartford-Central Connecticut Reliability Project (GHCCRP) Stormwater Pollution Control Plan			
Newington, West Hartford, Hartford, CT			
Wetland and Watercourse Crossing Typical Details			
Detail Sheet 2 of 4			AECOM
5/1/2018			
NO.	DATE	REVISIONS	BY CHK APP APP

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EVERSOURCE			
Greater Hartford-Central Connecticut Reliability Project (GHCCRP)			
Stormwater Pollution Control Plan			
Newington, West Hartford, Hartford, CT			
Erosion and Sediment Control Details			
Detail Sheet 4 of 4			
NO.	DATE	REVISIONS	BY CHK APP APP
			5/1/2018
			AECOM

ATTACHMENT G

Project Forms

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ATTACHMENT G1

Inspection and Maintenance Report Form

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Stormwater Pollution Prevention Plan Construction Site Inspection Report

General Information			
Project Name			
NPDES Tracking No.		Location	
Date of Inspection		Start/End Time	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Inspector's Qualifications			
Describe present phase of construction			
Type of Inspection:			
<input type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event			
Weather Information			
Has there been a storm event since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):			
Weather at time of this inspection? <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snowing <input type="checkbox"/> High Winds <input type="checkbox"/> Other: Temperature:			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe:			
Are there any discharges at the time of inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe:			

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	BMP/activity	Implemented?	Maintenance Required?	Notes
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Is the construction exit preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments

CERTIFICATION STATEMENT

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Print name and title: _____

Signature: _____ **Date:** _____

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ATTACHMENT G2
CT DEEP Stormwater Monitoring Form

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**Connecticut Department of
Energy & Environmental Protection**
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

**General Permit for the Discharge of Stormwater and Dewatering Wastewaters from
Construction Activities, issued 8/21/13, effective 10/1/13**
Stormwater Monitoring Report

SITE INFORMATION

Permittee: _____
 Mailing Address: _____
 Business Phone: _____ ext.: _____ Fax: _____
 Contact Person: _____ Title: _____
 Site Name: _____
 Site Address: _____
 Receiving Water (name, basin): _____
 Stormwater Permit No. GSN _____

SAMPLING INFORMATION (Submit a separate form for each outfall)

Outfall Designation: _____ Date/Time Collected: _____
 Outfall Location(s) (lat/lon or map link): _____
 Person Collecting Sample: _____
 Storm Magnitude (inches): _____ Storm Duration (hours): _____
 Size of Disturbed Area at any time: _____

MONITORING RESULTS

Sample #	Parameter	Method	Results (units)	Laboratory (if applicable)
1	Turbidity			
2	Turbidity			
3	Turbidity			
4	Turbidity			

(provide an attachment if more than 4 samples were taken for this outfall)

Avg = _____

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: _____
 Signature: _____ Date: _____

Please send completed form to:

DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
 79 ELM STREET
 HARTFORD, CT 06106-5127
 ATTN: NEAL WILLIAMS

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ATTACHMENT G3

CT DEEP Notice of Termination Form

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General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Notice of Termination Form

Please complete and submit this form in accordance with the general permit (DEP-PED-GP-015) in order to ensure the proper handling of your termination. Print or type unless otherwise noted.

Note: Ensure that for commercial and industrial facilities, registrations under the *General Permit for the Discharge of Stormwater Associated with Industrial Activity* (DEP-PED-GP-014) or the *General Permit for the Discharge of Stormwater from Commercial Activities* (DEP-PED-GP-004) have been filed where applicable. For questions about the applicability of these general permits, please call the Department at 860-424-3018.

Part I: Registrant Information

1. Permit number: GSN			
2. Fill in the name of the registrant(s) as indicated on the registration certificate: Registrant:			
3. Site Address: City/Town: _____ State: _____ Zip Code: _____			
4. Date all storm drainage structures were cleaned of construction sediment: Date of Completion of Construction: _____ Date of Last Inspection (must be at least three months after final stabilization pursuant to Section 6(b)(6)(D) of the general permit): _____			
5. Check the post-construction activities at the site (check all that apply):			
<input type="checkbox"/> Industrial	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Capped Landfill
<input type="checkbox"/> Other (describe): _____			

Part II: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."	
_____ Signature of Permittee	_____ Date
_____ Name of Permittee (print or type)	_____ Title (if applicable)

Note: Please submit this Notice of Termination Form to:
STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127