

Appendix A

Plans

ABBREVIATIONS

AVE AVENUE
 BM BENCH MARK
 CO CLEANOUT
 D.E.R. DESIGN EXCEPTION REQUEST
 ECM EROSION CONTROL MATTING
 ECB EROSION CONTROL BLANKET
 FT FEET
 H.P. HIGH POINT
 LT LEFT
 MAX MAXIMUM
 MIN MINIMUM
 MP MILE POST
 NB NORTHBOUND
 No. NUMBER
 RT RIGHT
 SB SOUTHBOUND
 STA STATION

DRAINAGE

CI CAST IRON
 CB CATCH BASIN
 CMP CORRUGATED METAL PIPE
 CFS CUBIC FEET PER SECOND
 HDPE HIGH DENSITY POLYETHYLENE PIPE
 INV INVERT
 MH MANHOLE
 Q₁₀₀ FLOW FROM 100 YEAR (1%) STORM
 RCCE REINFORCED CONCRETE CULVERT END
 RCP REINFORCED CONCRETE PIPE
 SAN SANITARY SEWER
 S SLOPE
 TF TOP OF FRAME
 TYP TYPICAL

ENERGY DISSIPATION

B WIDTH OF PREFORMED SCOUR HOLE
 C LENGTH OF PREFORMED SCOUR HOLE
 D INSIDE DIAMETER OF PIPE
 F DEPTH OF PREFORMED SCOUR HOLE
 L LENGTH
 S_p MAXIMUM INSIDE PIPE SPAN (NON CIRCULAR SECTIONS)
 INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)
 W WIDTH
 W₁ WIDTH (NEAR)
 W₂ WIDTH (FAR)

LEGEND

—(F)—(F)— FILL LINE
 —(C)—(C)— CUT LINE
 - - - - - SEDIMENTATION CONTROL SYSTEM
 - - - - - SWALE FLOW LINE
 - - - - - UNDERDRAIN
 —→ SWALE FLOW ARROW
 —→ PIPE FLOW ARROW
 > STONE CHECK DAM
 H.P. HIGH POINT

STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-

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Plotted Date: 12/10/2014

DESIGNER/DRAFTER:
A. QUINTERO
 CHECKED BY:
R. BERTOLI

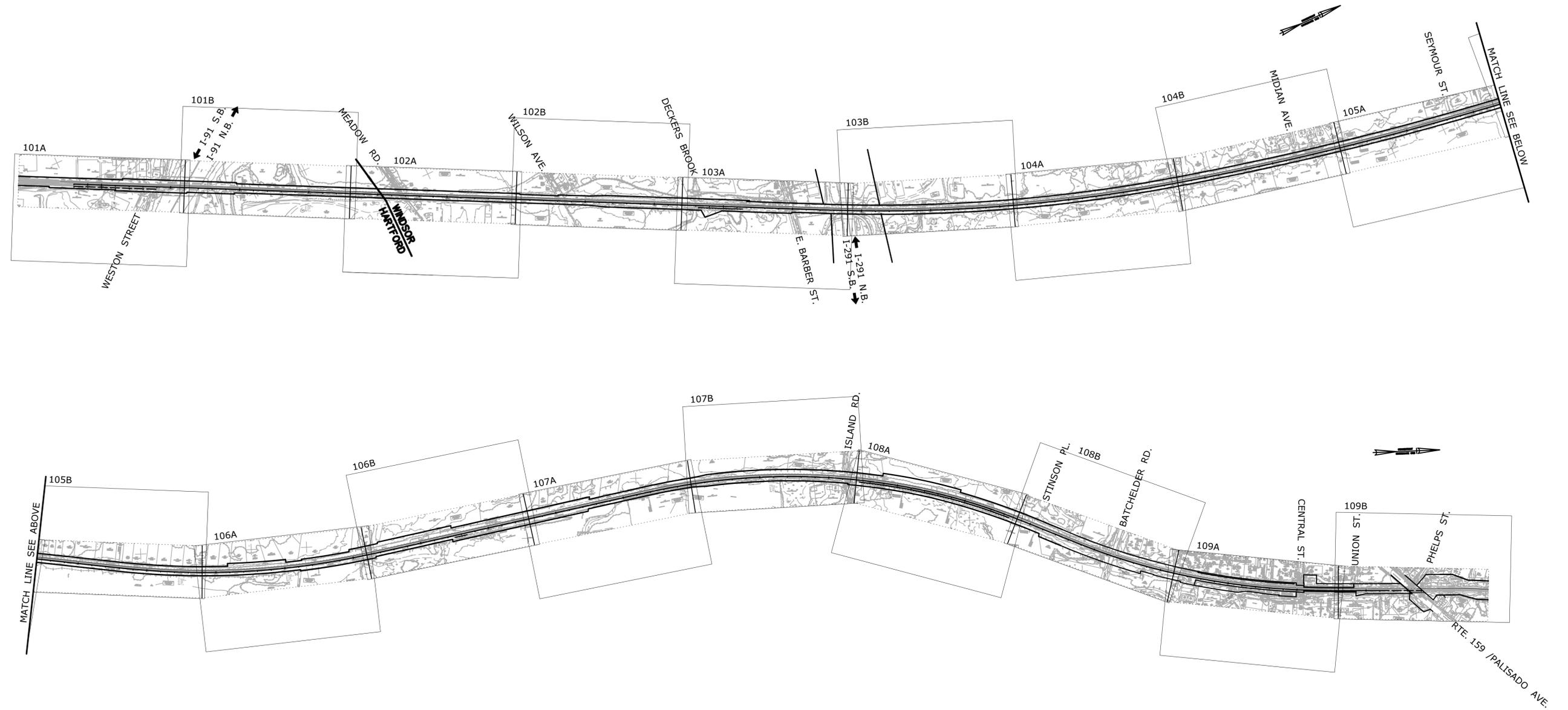


SIGNATURE/BLOCK:
PARSONS BRINCKERHOFF

PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
 PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
HARTFORD, WINDSOR CONNECTICUT
 DRAWING TITLE:
ABBREVIATIONS AND LEGEND

PROJECT NO.
0170-3156
 DRAWING NO.
CSE-001
 SHEET NO.
1



LEGEND

ALL SHEETS ARE "CSE-***". THE "A" DESIGNATION IS FOR THE TOP HALF OF THE SHEET WITH THE "B" DESIGNATION FOR THE BOTTOM HALF OF THE SHEET.

STORMWATER MANAGEMENT PLAN

PROJECT TITLE: NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM PHASE 3A NORTH - MP 39 TO MP 43	TOWN: HARTFORD, WINDSOR CONNECTICUT	PROJECT NO. 0170-3156
	DRAWING TITLE: KEY PLAN SHEET	DRAWING NO. CSE-002
		SHEET NO. 2

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/10/2014

DESIGNER/DRAFTER:
A. QUINTERO

CHECKED BY:
R. BERTOLI

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SCALE 1"=200'



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BLOCK:
**PARSONS
BRINCKERHOFF**

Filename: ...FA_CGR_MSM_0170-2296_000_03_CIN_004N.dgn

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**NEW HAVEN HARTFORD SPRINGFIELD
RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

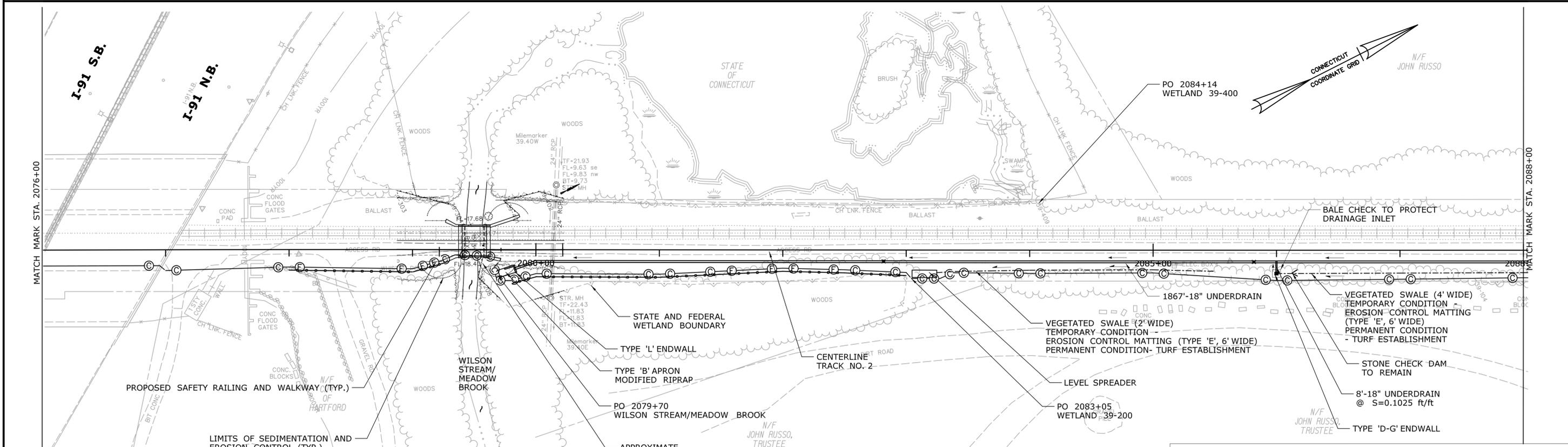
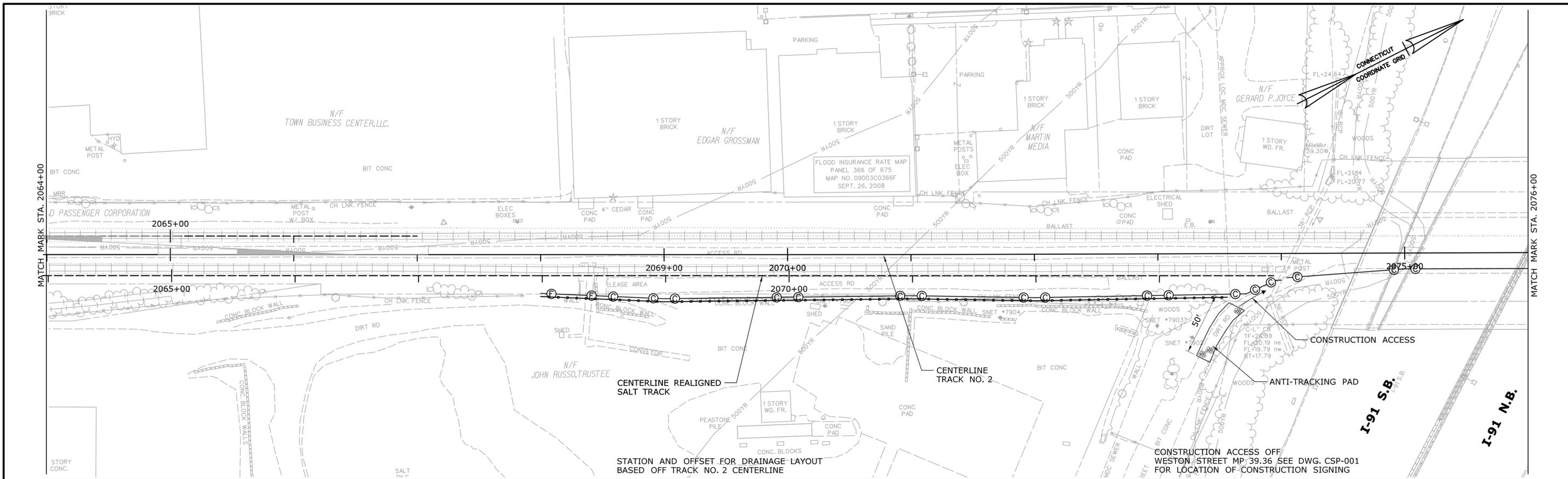
TOWN:
**HARTFORD, WINDSOR
CONNECTICUT**

DRAWING TITLE:
**KEY PLAN
SHEET**

PROJECT NO.
0170-3156

DRAWING NO.
CSE-002

SHEET NO.
2



STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/12/2014

DESIGNER/DRAFTER:
A. QUINTERO

CHECKED BY:
R. BERTOLI

SCALE IN FEET

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SCALE 1"=40'



SIGNATURE/BLOCK:
PARSONS BRINCKERHOFF

PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

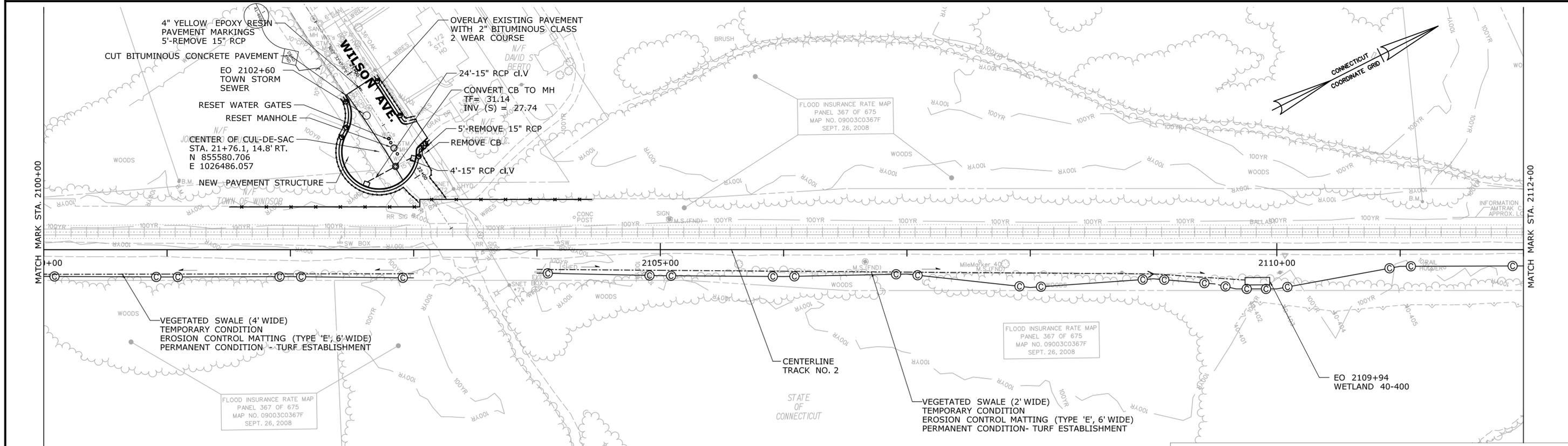
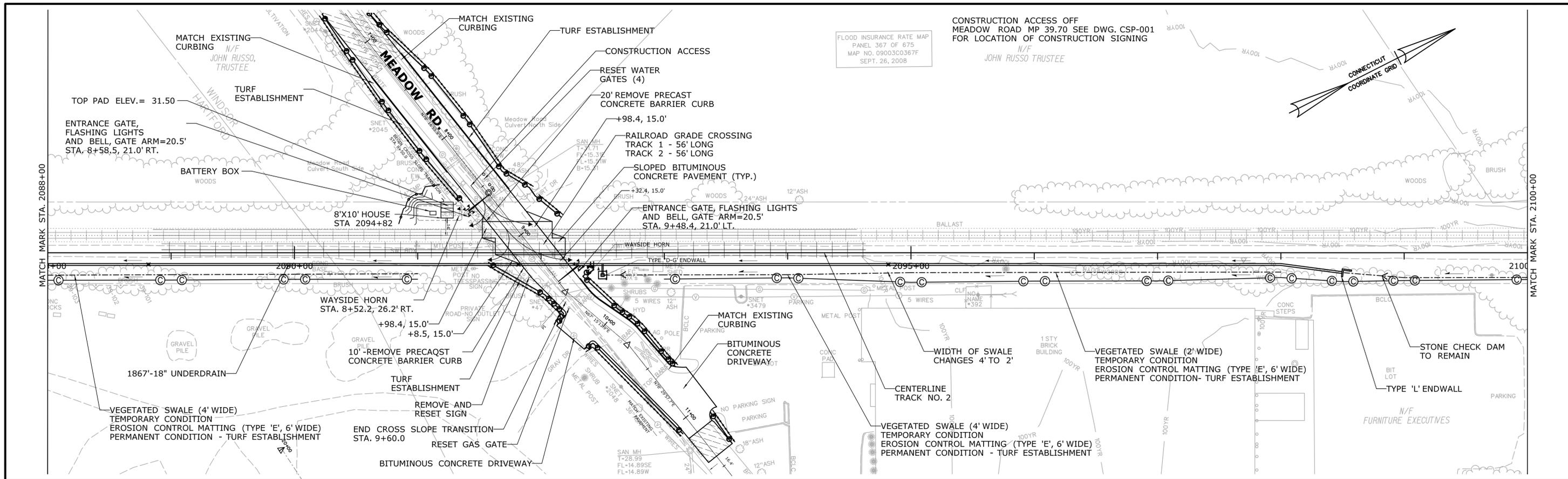
TOWN:
HARTFORD CONNECTICUT

DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2064+00 TO STA. 2088+00**

PROJECT NO.
0170-3156

DRAWING NO.
CSE-101

SHEET NO.
3



STORMWATER MANAGEMENT PLAN

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CHECKED BY:
R. BERTOLI
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SCALE 1"=40'

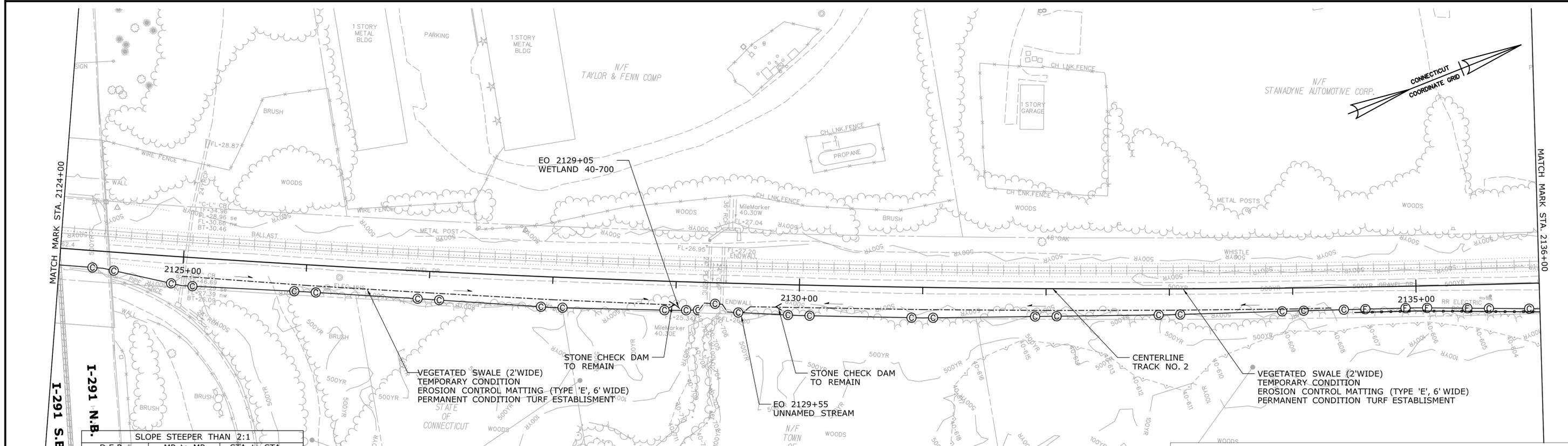
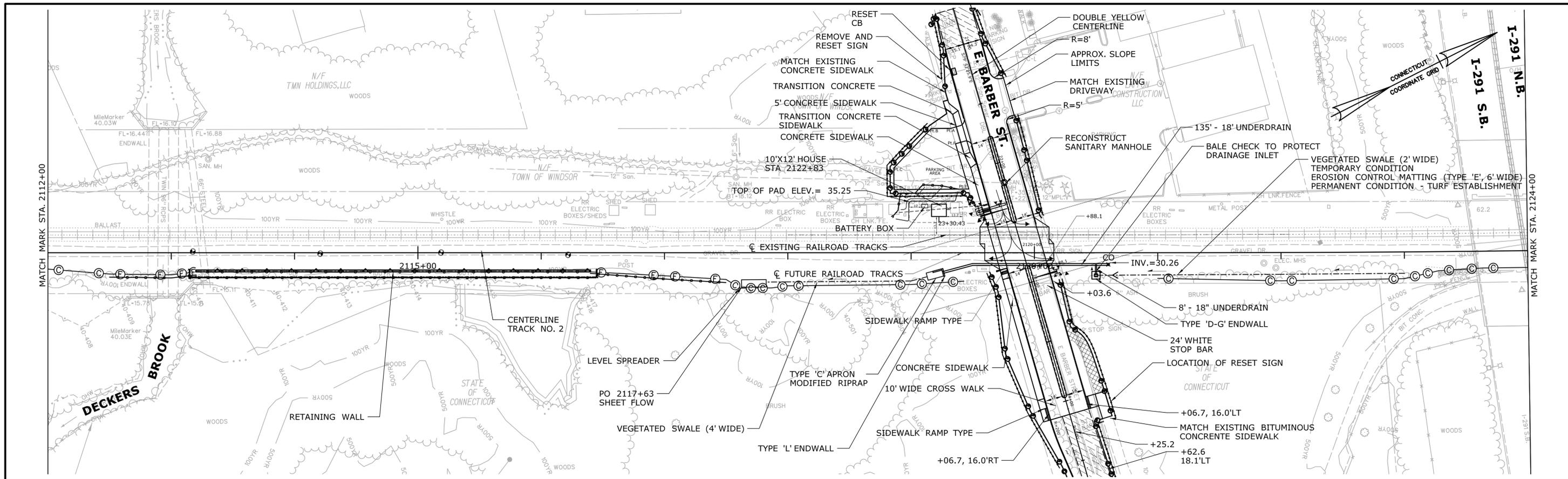


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PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
HARTFORD, WINDSOR CONNECTICUT
DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2088+00 TO STA. 2112+00**

PROJECT NO.
0170-3156
DRAWING NO.
CSE-102
SHEET NO.
4



SLOPE STEEPER THAN 2:1			
D.E.R.#	MP to MP	STA to STA	
003AN-E-x	40.32	40.34	2124+50
003AN-E-xi	40.43	40.45	2130+50

STORMWATER MANAGEMENT PLAN

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R. BERTOLI
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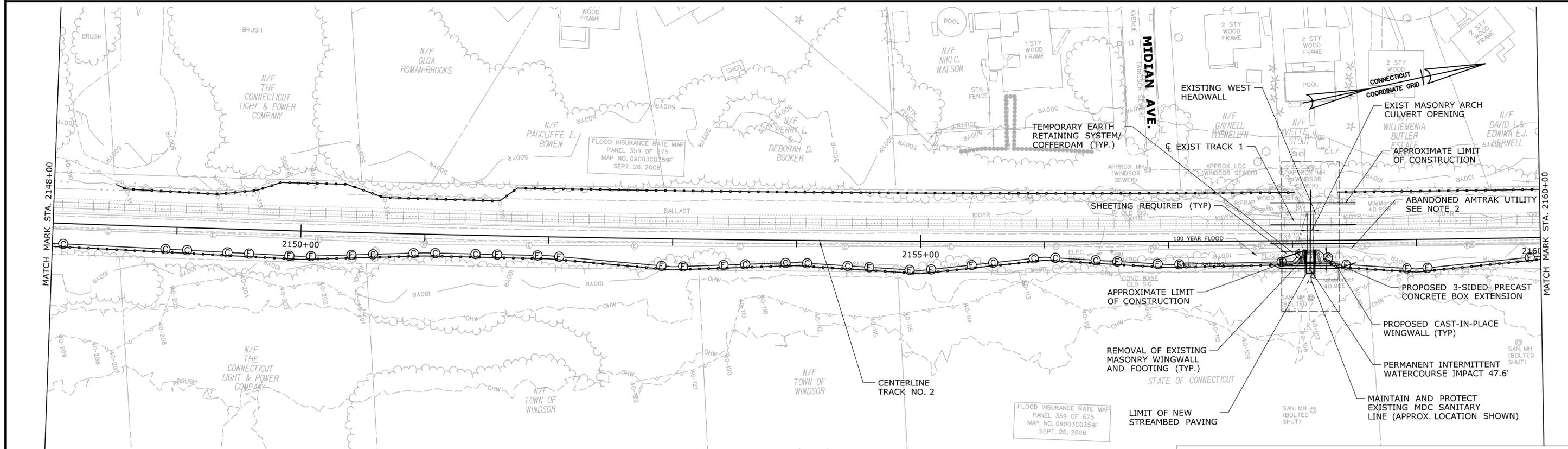
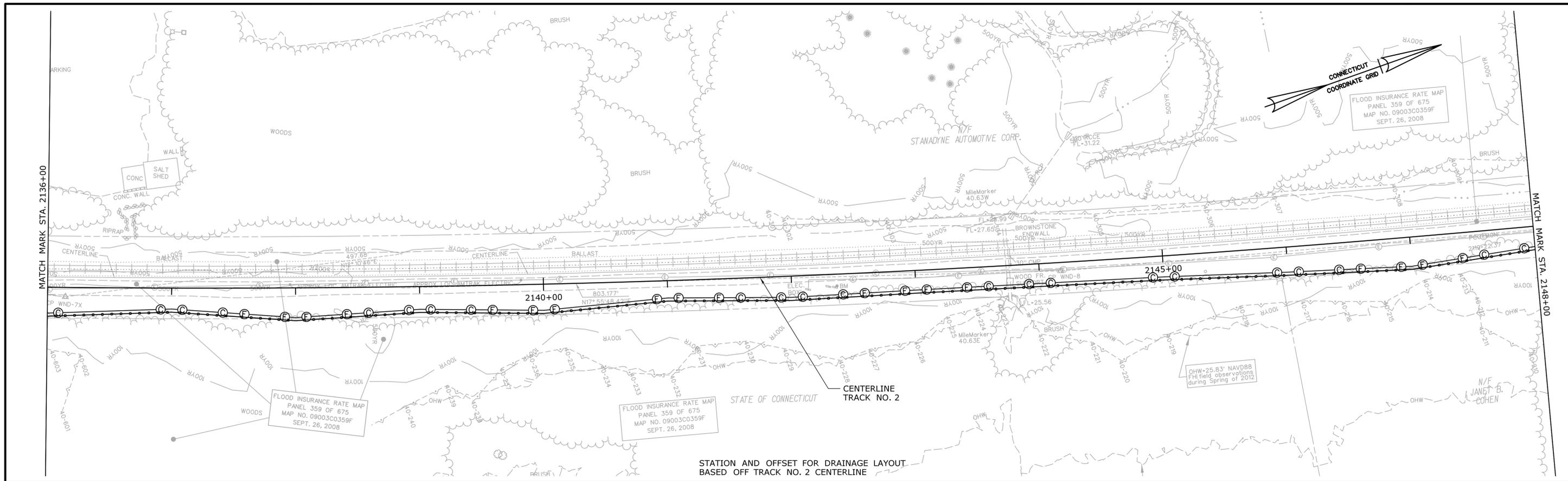


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**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
WINDSOR CONNECTICUT
DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2112+00 TO STA. 2136+00**

PROJECT NO.
0170-3156
DRAWING NO.
CSE-103
SHEET NO.
5



STORMWATER MANAGEMENT PLAN

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Plotted Date: 2/5/2015

DESIGNER/DRAFTER:
A. QUINTERO

CHECKED BY:
R. BERTOLI

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SCALE 1"=40'



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PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

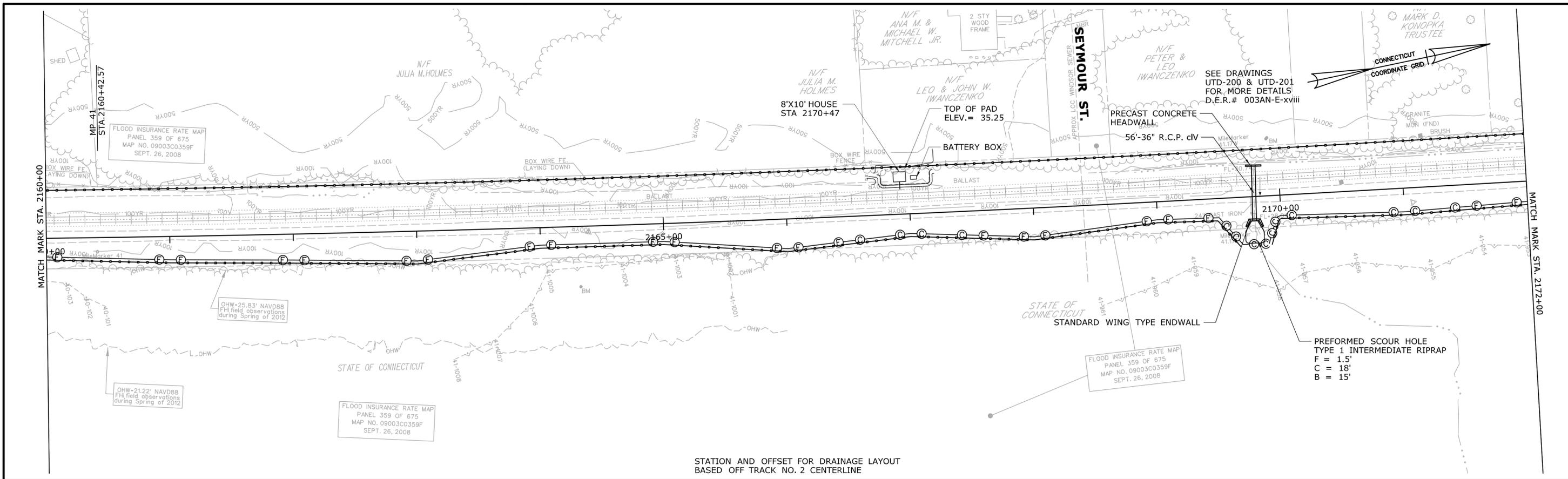
TOWN:
WINDSOR CONNECTICUT

DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2136+00 TO STA. 2160+00**

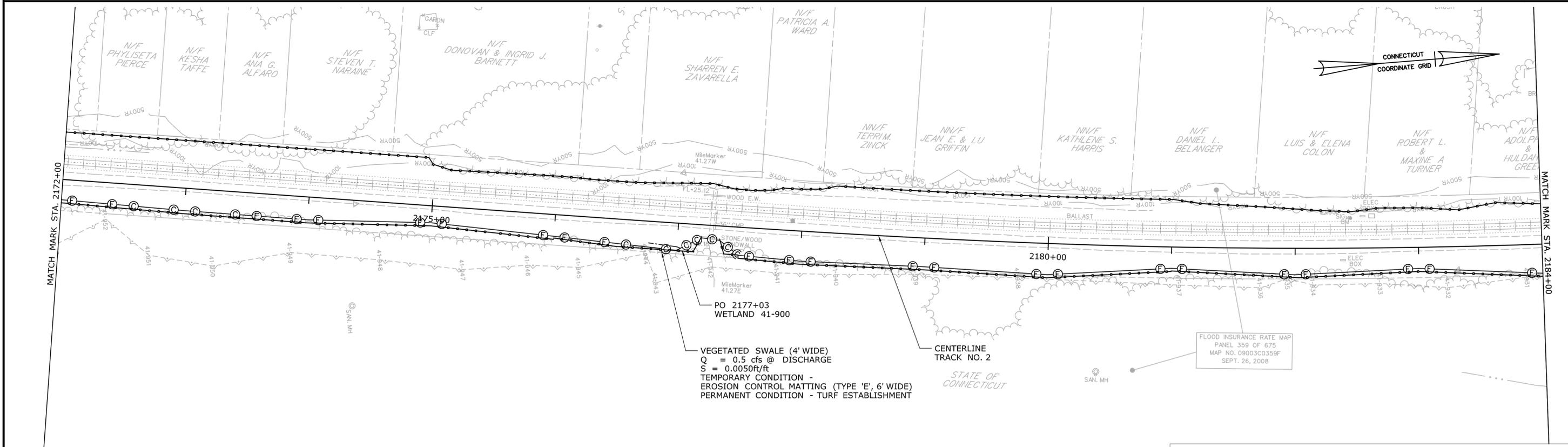
PROJECT NO.
0170-3156

DRAWING NO.
CSE-104

SHEET NO.
6



STATION AND OFFSET FOR DRAINAGE LAYOUT
BASED OFF TRACK NO. 2 CENTERLINE



STATION AND OFFSET FOR DRAINAGE LAYOUT
BASED OFF TRACK NO. 2 CENTERLINE

STORMWATER MANAGEMENT PERMIT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:
A. QUINTERO
CHECKED BY:
R. BERTOLI
SCALE IN FEET
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SCALE 1"=40'



SIGNATURE/
BLOCK:
**PARSONS
BRINCKERHOFF**

PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD
RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

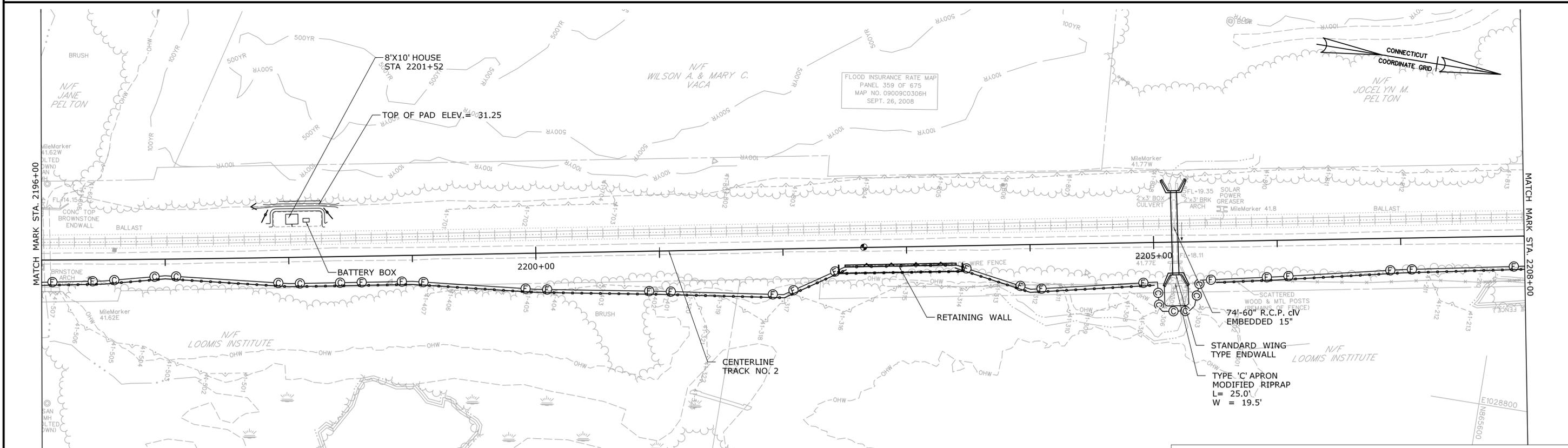
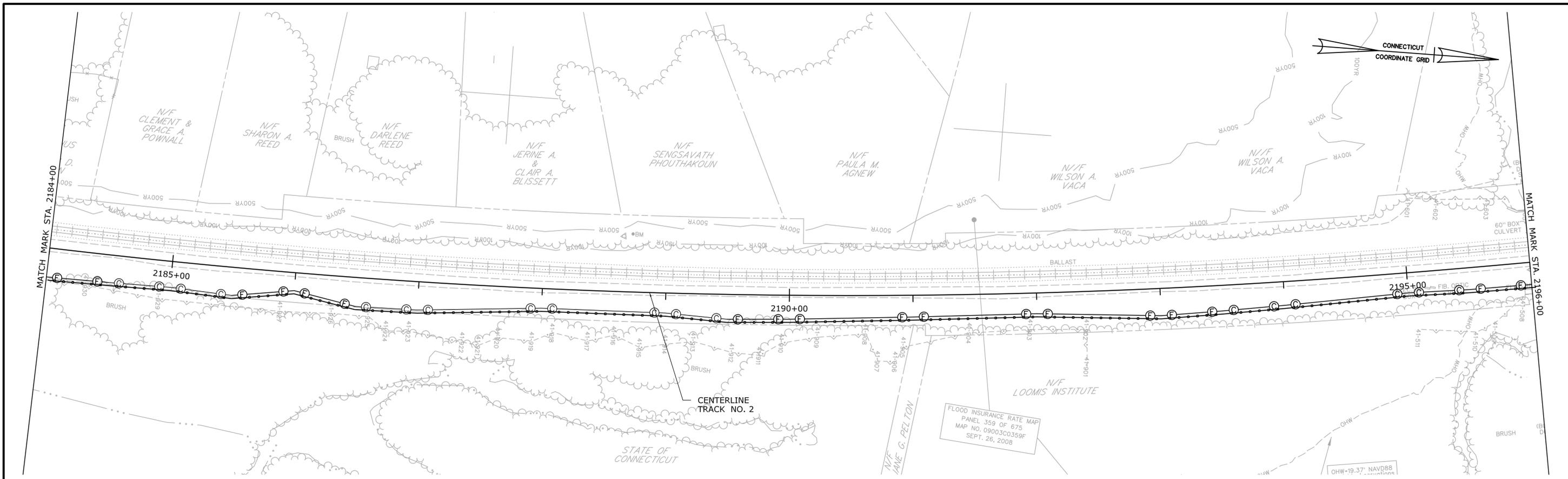
TOWN:
**WINDSOR
CONNECTICUT**
DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2160+00 TO STA. 2184+00**

PROJECT NO.
0170-3156
DRAWING NO.
CSE-105
SHEET NO.
7

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Plotted Date: 2/5/2015

Filename: ...FA_CGR_MSM_0170-2296_164_03_CSE_CSE_105N.dgn



STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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CHECKED BY:
R. BERTOLI
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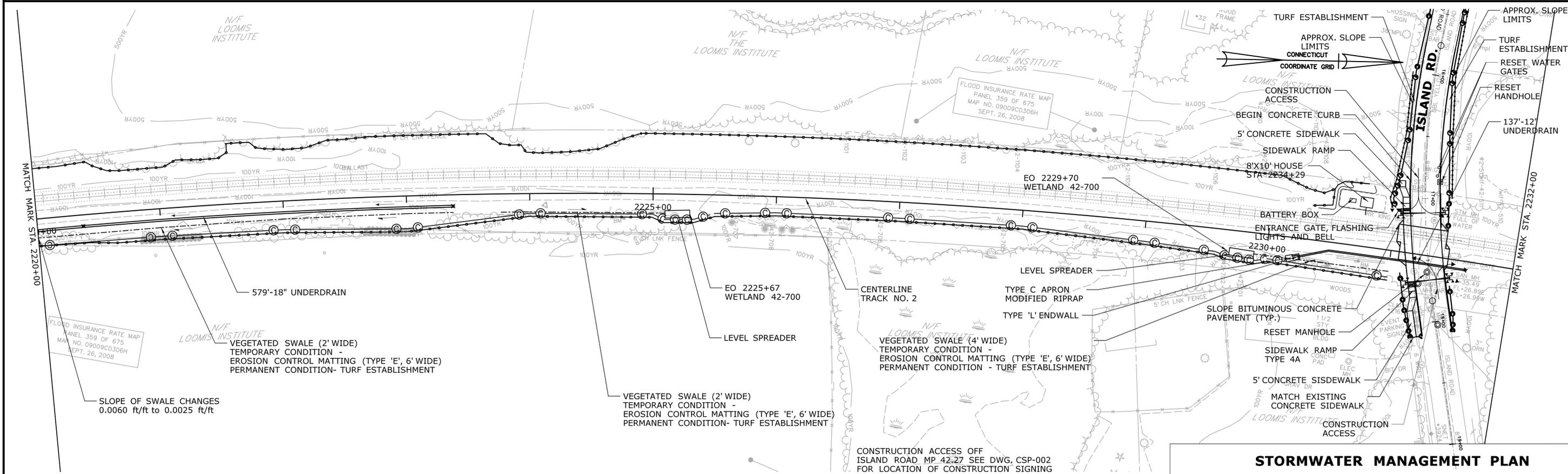
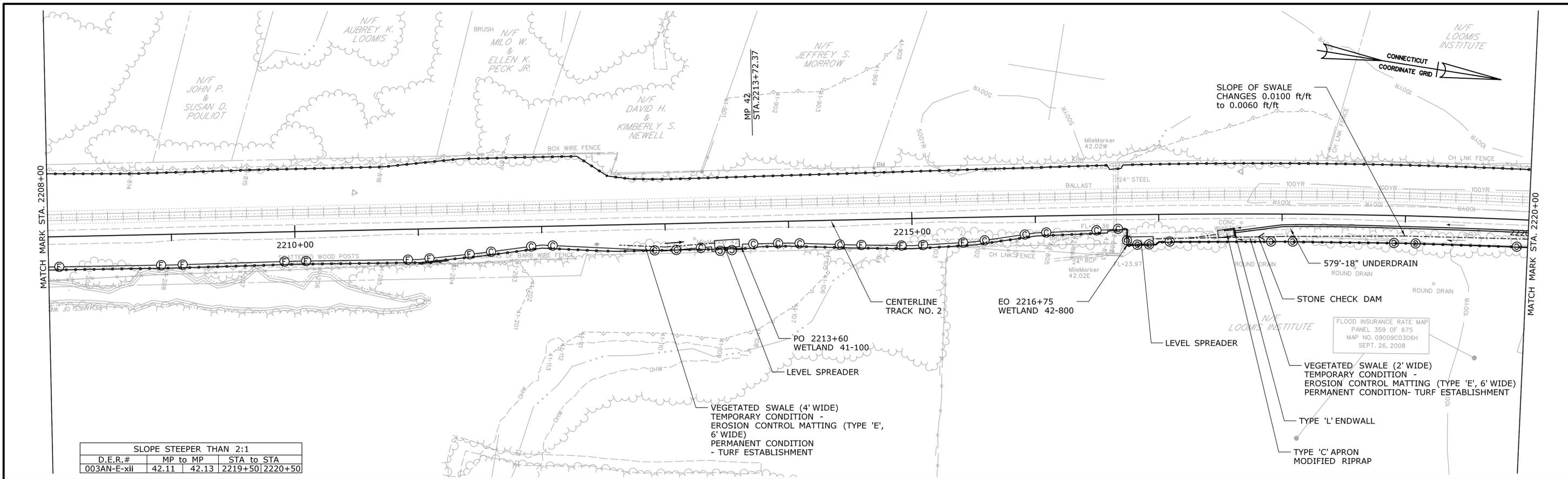


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PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
WINDSOR CONNECTICUT
DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2184+00 TO STA. 2208+00**

PROJECT NO.
0170-3156
DRAWING NO.
CSE-106
SHEET NO.
8



STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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CHECKED BY:
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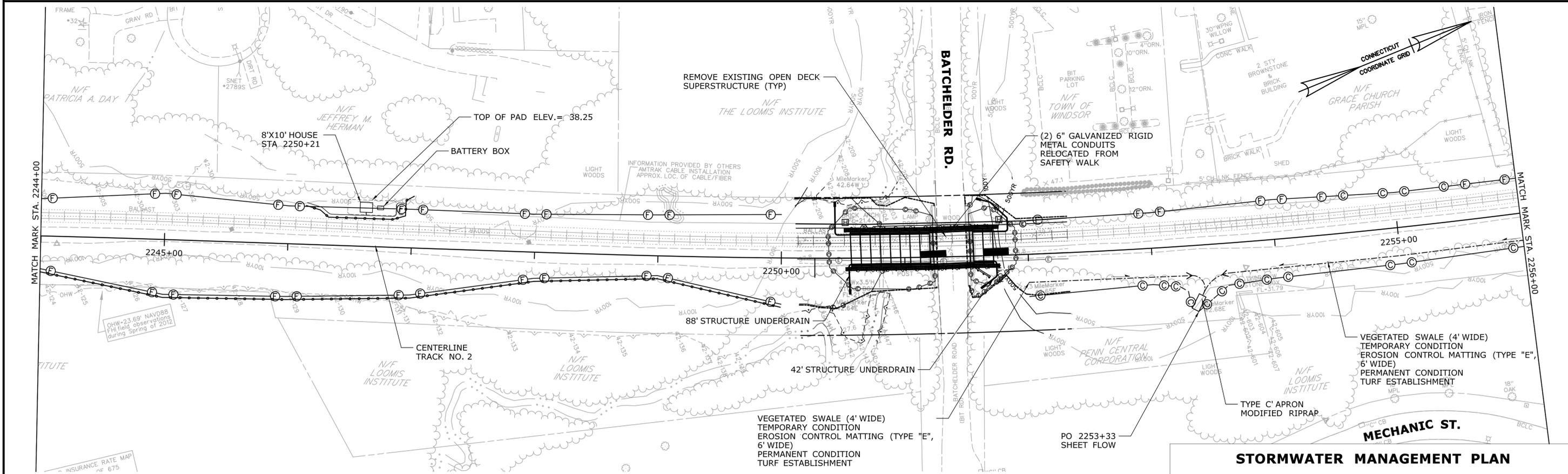
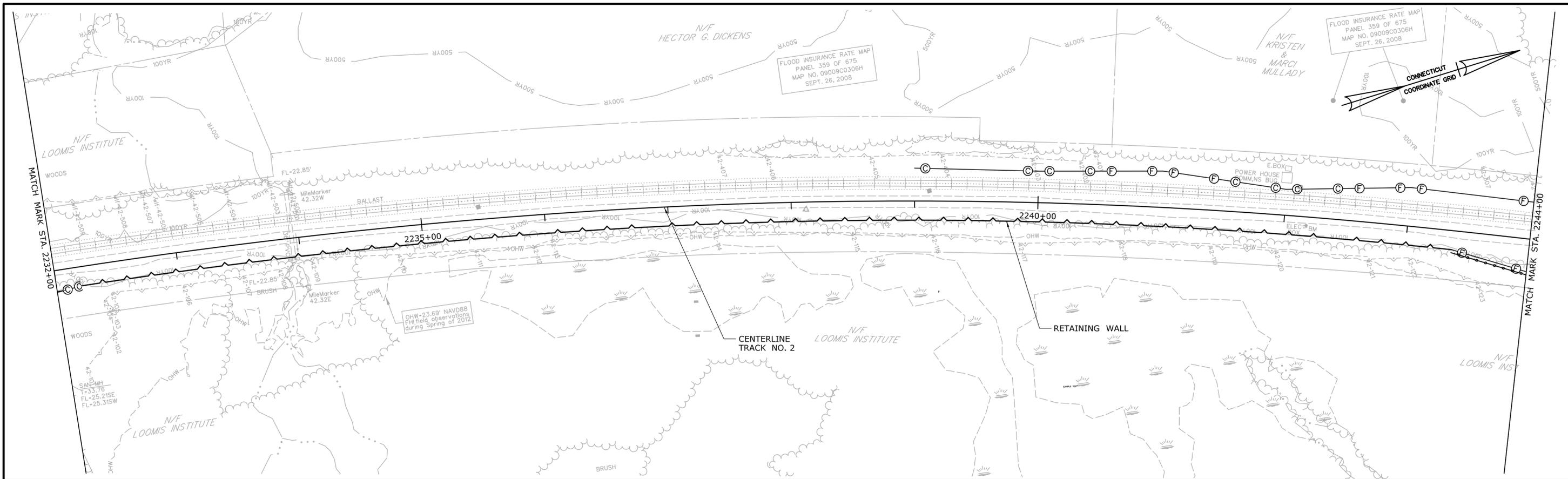


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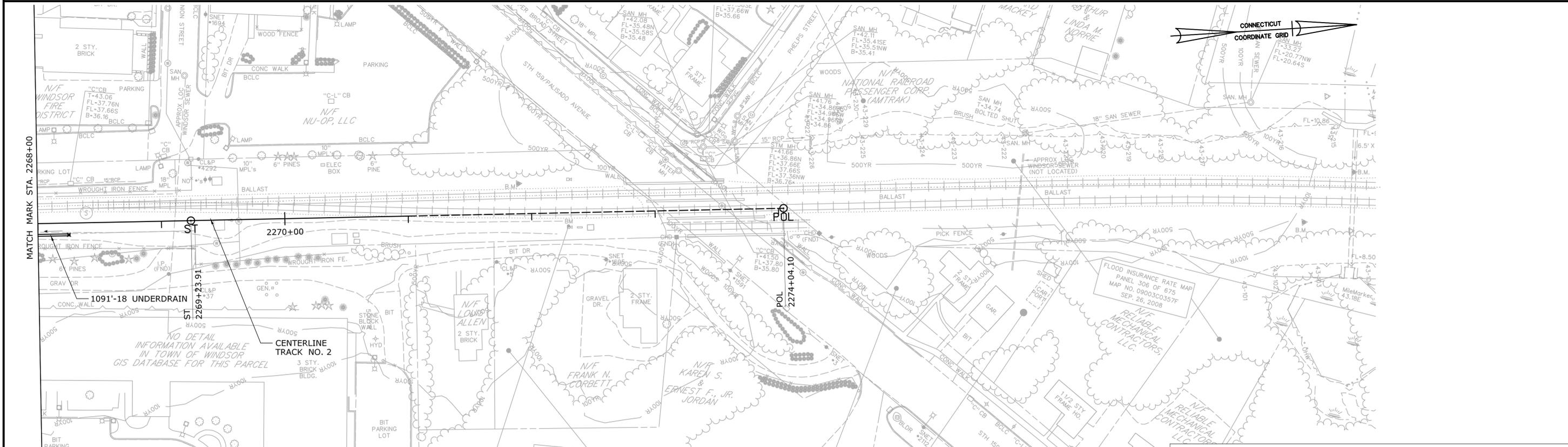
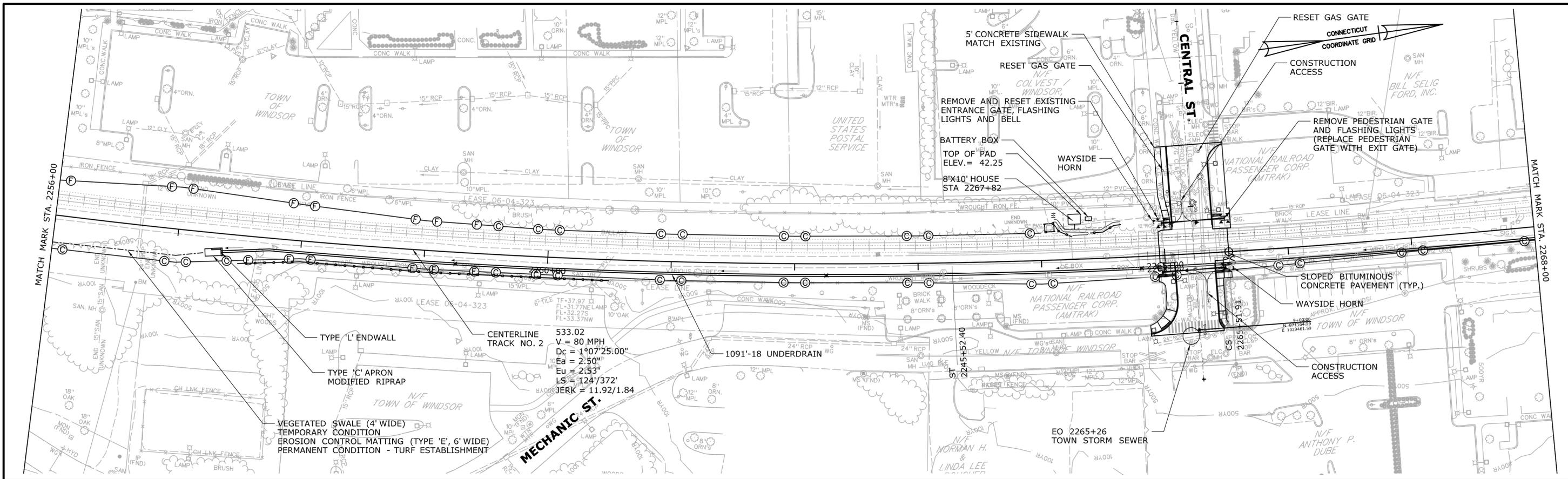
PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
WINDSOR CONNECTICUT
DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2208+00 TO STA. 2232+00**

PROJECT NO.
0170-3156
DRAWING NO.
CSE-107
SHEET NO.
9



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 2/5/2015	Filename: ...FA_CGR_MSM_0170-2296_164_03_CSE_CSE_108N.dgn	STORMWATER MANAGEMENT PLAN SEDIMENT CONTROL PLAN STA. 2232+00 TO STA. 2256+00	



STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER:
A. QUINTERO
CHECKED BY:
R. BERTOLI
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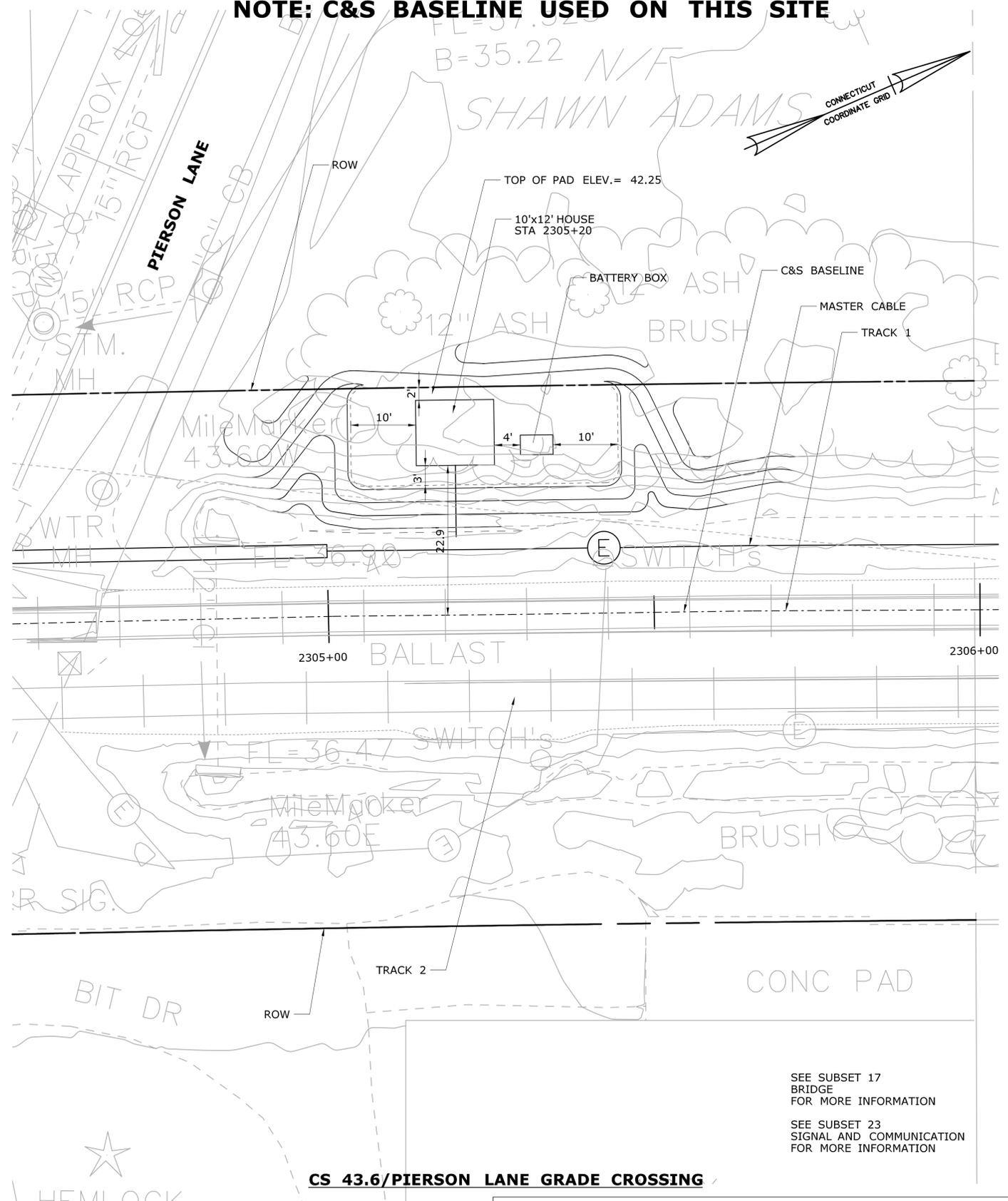
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PARSONS BRINCKERHOFF

PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
WINDSOR CONNECTICUT
DRAWING TITLE:
**SEDIMENT CONTROL PLAN
STA. 2256+00 TO STA. 2270+00**

PROJECT NO.
0170-3156
DRAWING NO.
CSE-109
SHEET NO.
11

NOTE: C&S BASELINE USED ON THIS SITE



SEE SUBSET 17
BRIDGE
FOR MORE INFORMATION

SEE SUBSET 23
SIGNAL AND COMMUNICATION
FOR MORE INFORMATION

CS 43.6/PIERSON LANE GRADE CROSSING

STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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CHECKED BY:
R. BERTOLI

SCALE IN FEET

0 10 20

SCALE 1"=10'



SIGNATURE/BLOCK:
PARSONS BRINCKERHOFF

PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
WINDSOR CONNECTICUT

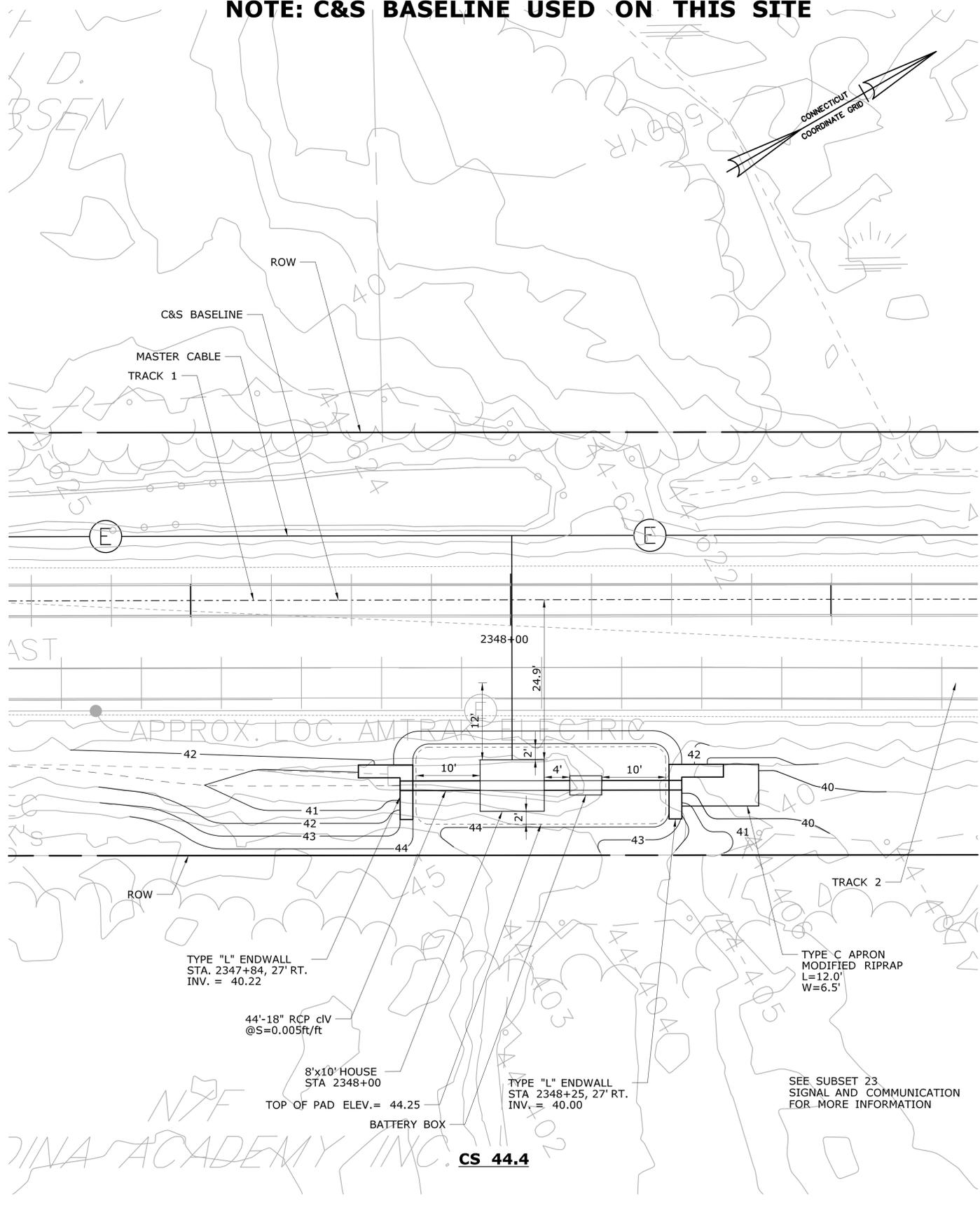
DRAWING TITLE:
**C&S SITE PLAN
STA. 2305+20**

PROJECT NO.
0170-3156

DRAWING NO.
CSP-104

SHEET NO.
12

NOTE: C&S BASELINE USED ON THIS SITE



TYPE "L" ENDWALL
STA. 2347+84, 27' RT.
INV. = 40.22

44'-18" RCP CIV
@S=0.005ft/ft

8'x10' HOUSE
STA 2348+00
TOP OF PAD ELEV.= 44.25

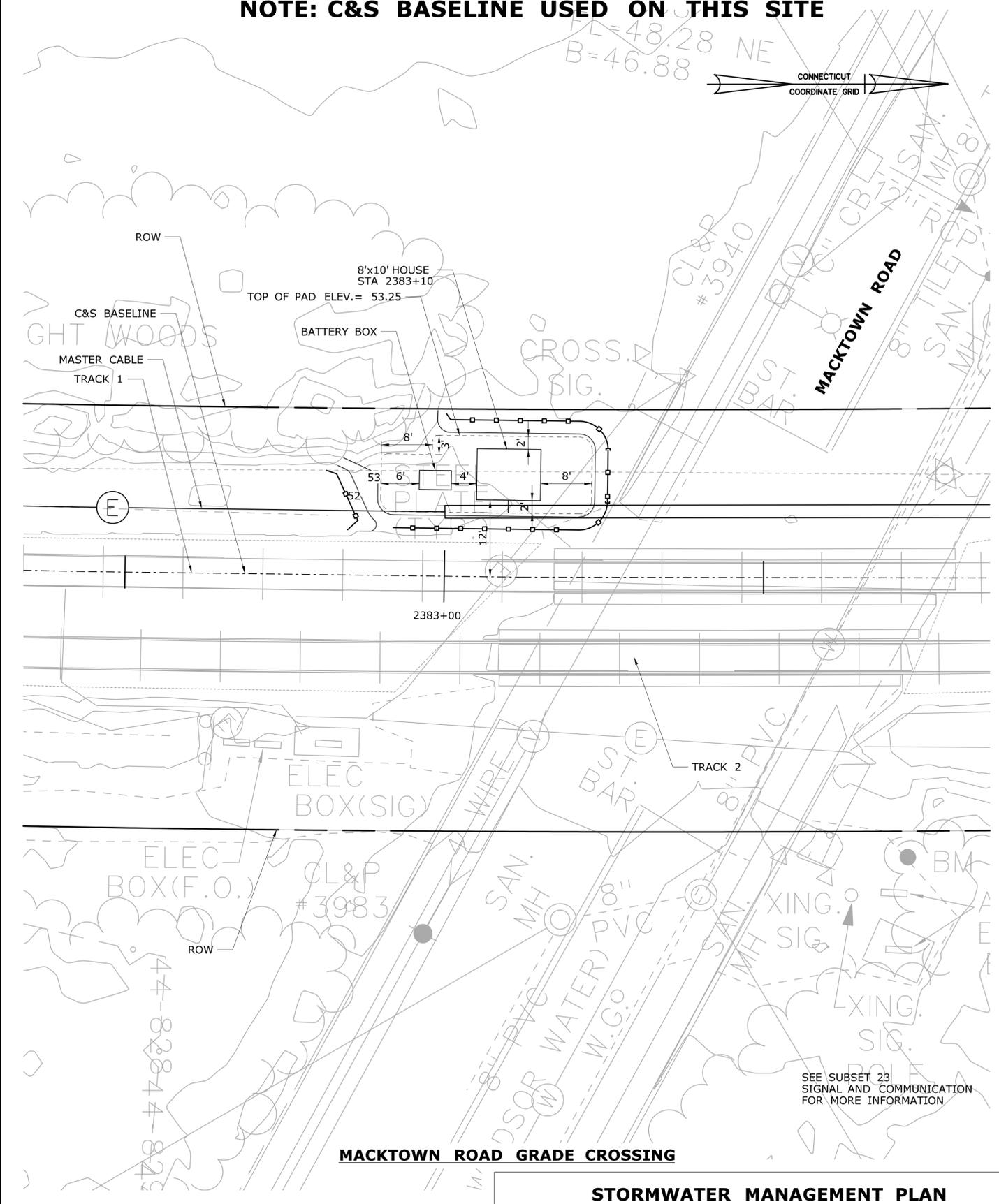
TYPE "L" ENDWALL
STA 2348+25, 27' RT.
INV. = 40.00

TYPE C APRON
MODIFIED RIPRAP
L=12.0'
W=6.5'

SEE SUBSET 23
SIGNAL AND COMMUNICATION
FOR MORE INFORMATION

CS 44.4

NOTE: C&S BASELINE USED ON THIS SITE



MACKTOWN ROAD GRADE CROSSING

STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 12/10/2014

DESIGNER/DRAFTER:
A. QUINTERO

CHECKED BY:
B. BERTOLI

SCALE IN FEET

0 10 20

SCALE 1"=10'



SIGNATURE/BLOCK:
PARSONS BRINCKERHOFF

PROJECT TITLE:
**NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43**

TOWN:
WINDSOR CONNECTICUT

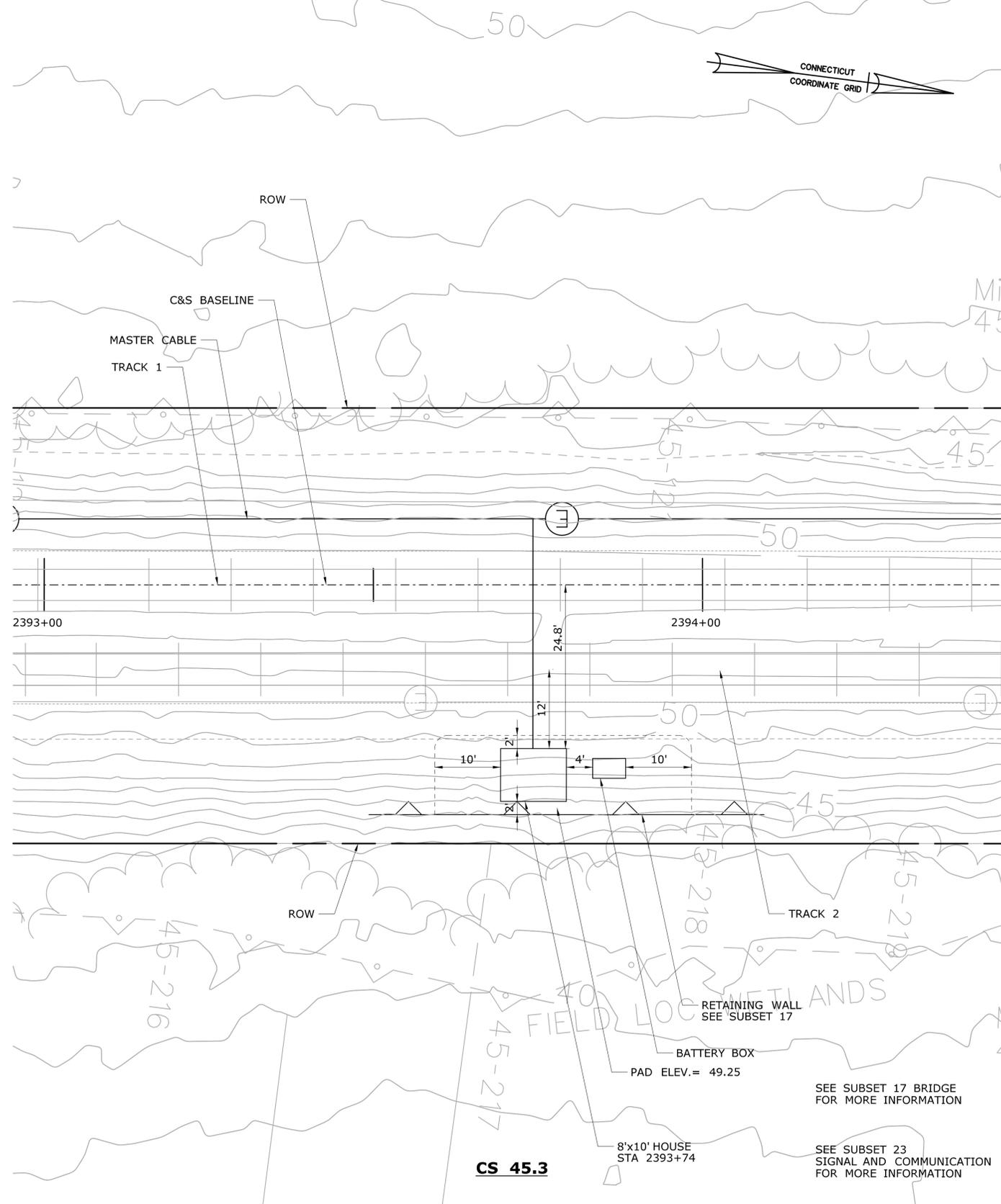
DRAWING TITLE:
**C&S SITE PLAN
STA. 2348+00 & 2383+10**

PROJECT NO.
0170-3156

DRAWING NO.
CSP-105

SHEET NO.
13

NOTE: C&S BASELINE USED ON THIS SITE

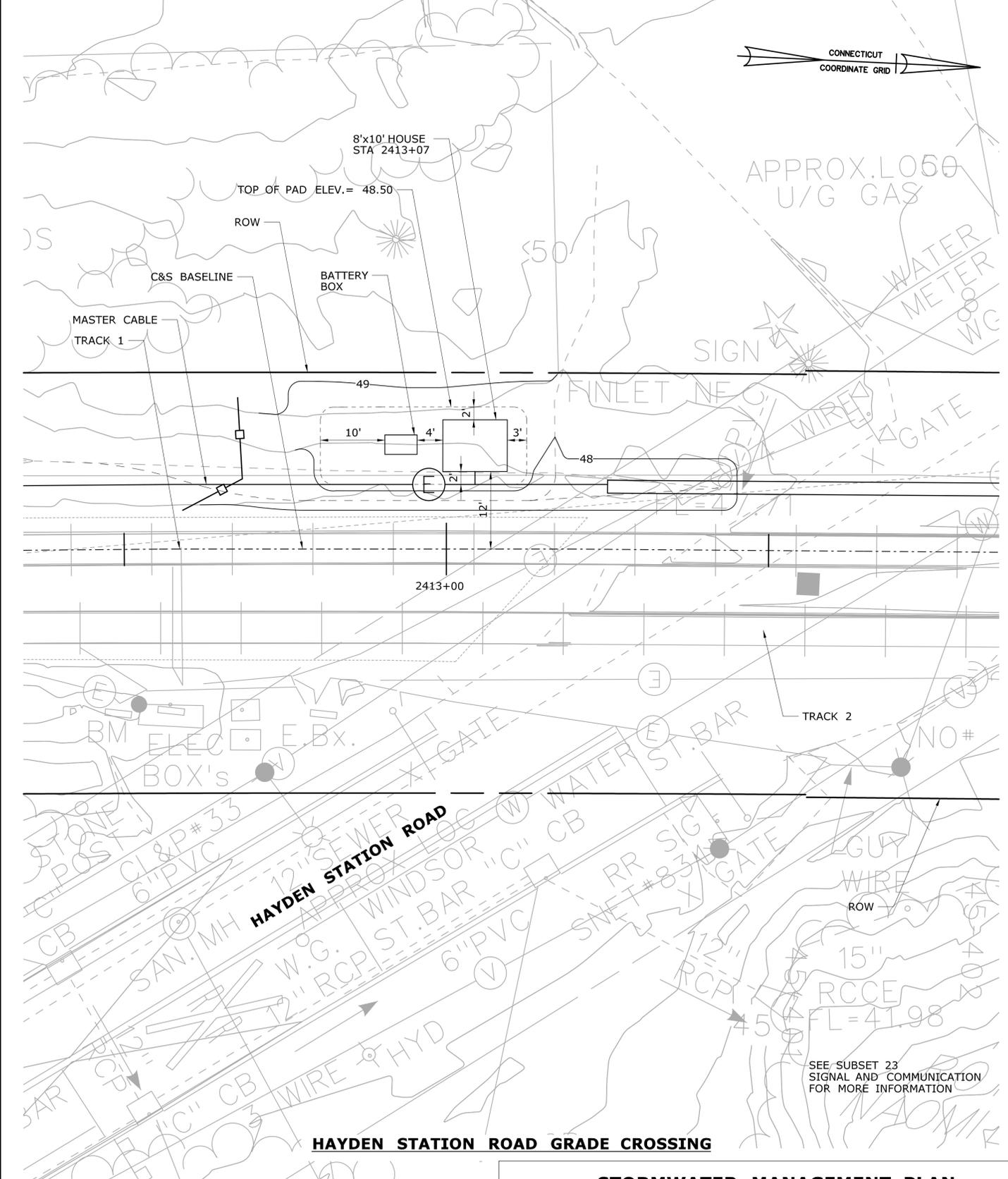


CS 45.3

SEE SUBSET 17 BRIDGE FOR MORE INFORMATION

SEE SUBSET 23 SIGNAL AND COMMUNICATION FOR MORE INFORMATION

NOTE: C&S BASELINE USED ON THIS SITE



HAYDEN STATION ROAD GRADE CROSSING

STORMWATER MANAGEMENT PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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R. BERTOLI
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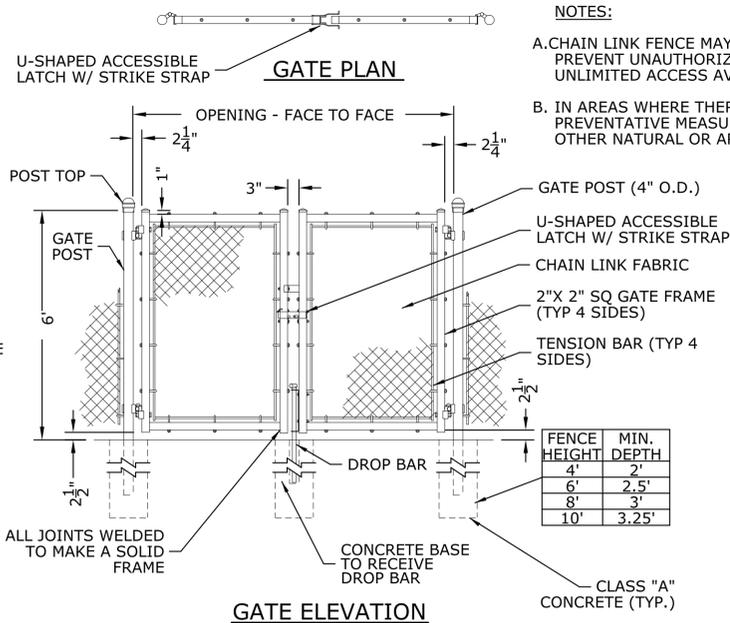


SIGNATURE/BLOCK:

PROJECT TITLE:
NEW HAVEN HARTFORD SPRINGFIELD RAIL PROGRAM
PHASE 3A NORTH - MP 39 TO MP 43

TOWN:
WINDSOR CONNECTICUT
DRAWING TITLE:
C&S SITE PLAN
STA. 2393+74 & 2413+07

PROJECT NO.
0170-3156
DRAWING NO.
CSP-106
SHEET NO.
14



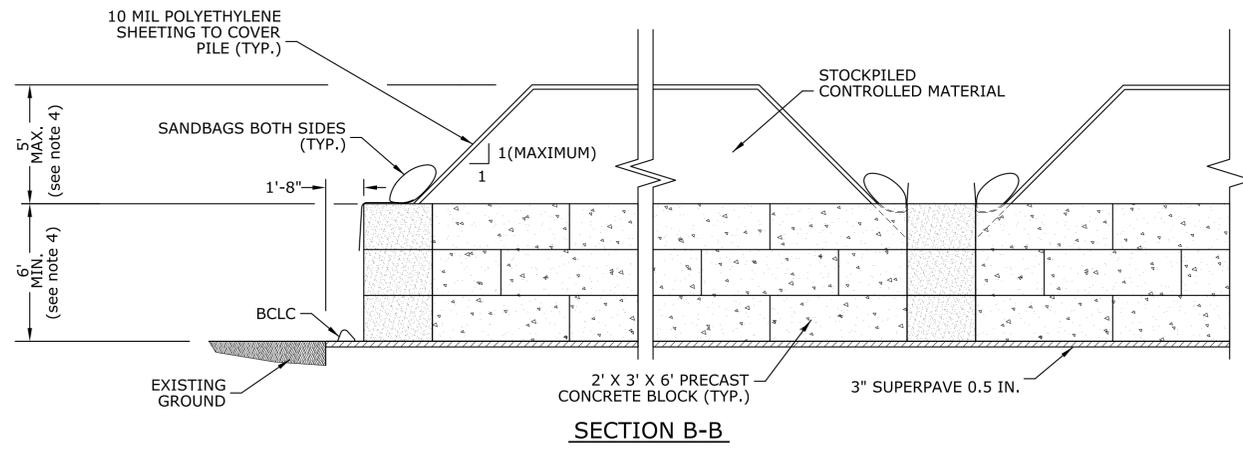
NOTES:

A. CHAIN LINK FENCE MAY BE UTILIZED IN RESIDENTIAL NEIGHBORHOODS TO PREVENT UNAUTHORIZED ENTRY ONTO STOCKPILES WHERE THERE IS UNLIMITED ACCESS AVAILABLE TO PEDESTRIANS AND/OR TRAFFIC.

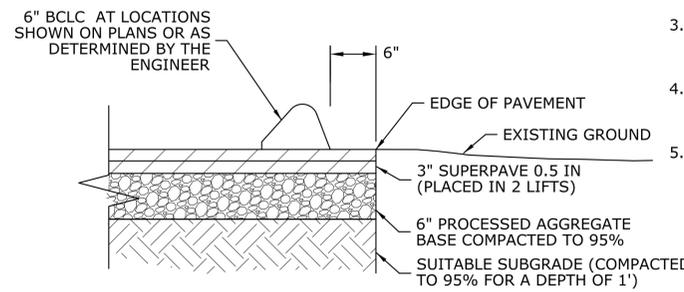
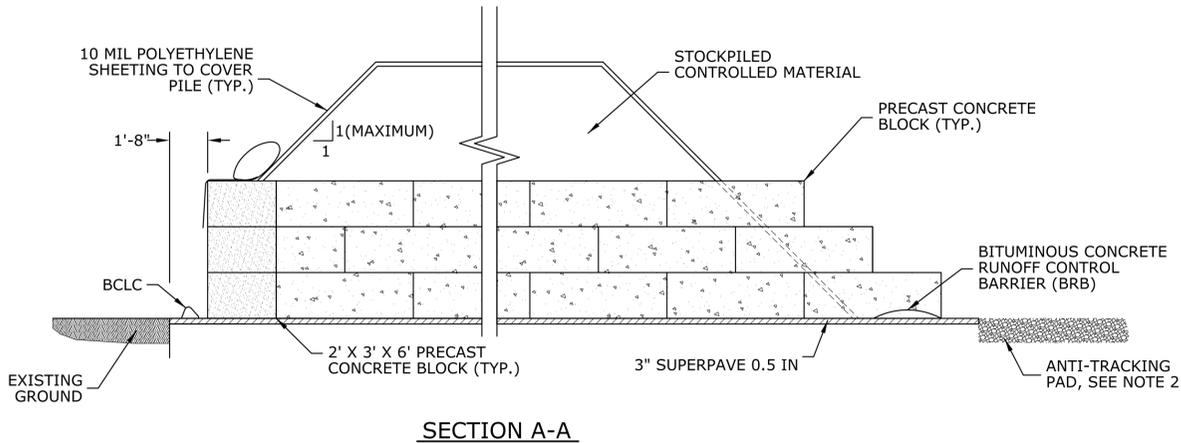
B. IN AREAS WHERE THERE IS LIMITED ACCESS, OTHER APPROPRIATE PREVENTATIVE MEASURES MAY BE ACCOMPLISHED THROUGH THE USE OF OTHER NATURAL OR ARTIFICIAL BARRIERS.

NOTE:
GATES SHOULD HAVE THE ABILITY TO SWING 180 DEGREES.

1 TYPICAL DOUBLE SWING GATES

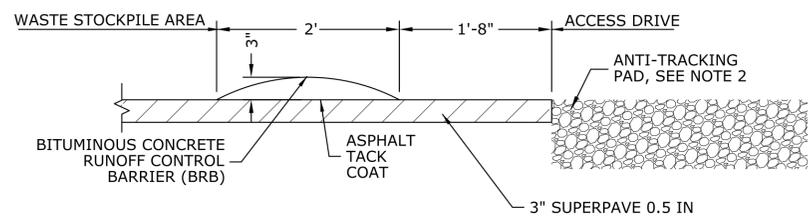


2 WASTE STOCKPILE AREA DETAIL



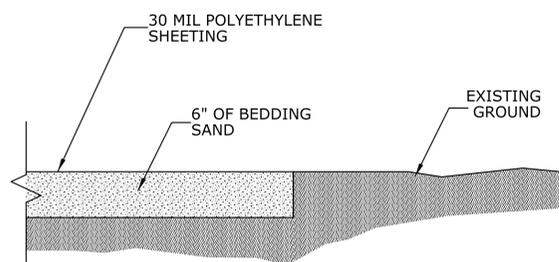
NOTE:
IF THE WSA IS TO BE LOCATED ON EXISTING PAVEMENT SUCH AS ROADWAY AND OR PARKING LOT A COMPOSITE PAVEMENT STRUCTURE WILL NOT BE REQUIRED.

3 COMPOSITE PAVEMENT STRUCTURE DETAIL



NOTE:
INSTALLATION OF BRB SHALL BE ON PAVEMENT ONLY AND IS BASED ON FIELD CONDITIONS OR AS DETERMINED BY THE ENGINEER.

4 BITUMINOUS CONCRETE RUNOFF CONTROL BARRIER (BRB) DETAIL



5 BEDDING SAND OVER EXISTING GROUND DETAIL

- GENERAL NOTES:**
1. WSA INSTALLATION AND ALL REQUIRED MATERIALS ARE AS INDICATED ON THE WSA PLAN.
 2. ANTI-TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE WSA PLAN AND IN ACCORDANCE WITH "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, 2002-SECTION 5-12."
 3. WHERE FEASIBLE, A MINIMUM DISTANCE OF 5' IMMEDIATELY OUTSIDE THE PERIMETER OF THE WSA CONCRETE BLOCK WALLS SHALL REMAIN CLEAR AND FREE OF ANY OBJECT TO PROVIDE ACCESS FOR MAINTENANCE.
 4. HEIGHT OF THE CONCRETE BLOCKS, STOCKPILED CONTROLLED MATERIAL AND CONFIGURATION OF THE BIN(S) MAY VARY BASED ON THE SIZE AS INDICATED ON THE WSA PLAN OR AS DIRECTED BY THE ENGINEER.
 5. THE WSA SURFACE SHALL BE SUFFICIENTLY IMPERVIOUS TO PREVENT OR MINIMIZE THE TRANSFER OR INFILTRATION OF CONTAMINANTS FROM THE STOCKPILES TO THE GROUND. THE WSA SURFACE WILL VARY BASED ON PROJECT SPECIFICS AND MAY BE CONSTRUCTED ON NEW OR EXISTING PAVEMENT, BEDDING SAND, OR OTHER MATERIAL AS SHOWN ON THE PLANS.

Appendix B

Notice of Termination Form



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: GSM			
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

Appendix C

Construction Specifications



June 13, 2008

SPEC NO. 150 ©

STORMWATER MANAGEMENT POLICY

Scope

This specification is for designing stormwater management drainage facilities on property adjacent to Amtrak's Right-of-Way. These requirements are closely allied with the needs associated with the safety of high speed rail passenger service.

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1. Introduction

- 1.1. This specification has been developed to outline the National Railroad Passenger Corporation's (Amtrak) policies, criteria, and methodologies regarding hydrologic/hydraulic design of proposed developments adjacent to the Amtrak's right-of-way.
- 1.2. Reference to this specification will provide definitive guidelines for preparing thorough hydrologic/hydraulic design analyses in conformance with the requirements of Amtrak's Engineering Practices, Amtrak's Specification 63, and as specified herein. Close adherence to the provisions of this specification will reduce the review process time for hydrologic/hydraulics approval.

2. Policy

- 2.1. Amtrak reserves the right to review any development adjacent to the Amtrak ROW or facilities to ensure that: 1) the proposed development will not adversely affect the railroad and 2) improvements on Amtrak's land are in conformance with Amtrak's design criteria, construction specifications, and standard details.
- 2.2. Adverse impacts may include flooding, erosion, structural damage, and/or any safety hazard that may occur.
- 2.3. All submittals must be sent to Amtrak's Director of I & C Projects. The Director of I & C Projects will review the development plans and computations to confirm that:
 - All inlets, pipes, channels and other storm drain facilities constructed on Amtrak's property meet Amtrak criteria.
 - The hydraulic design of proposed drainage facilities, which connect directly to Amtrak drainage facilities either upstream or downstream, are adequate.
 - On-site drainage systems for proposed developments, which do not connect directly to Amtrak drainage facilities, will not indirectly result in an adverse impact to Amtrak facilities or ROW.
 - Proposed improvements do not create safety or erosion hazards.
 - Work within or adjacent to Amtrak does not cause an increases in flow or total runoff towards the railroad.
- 2.4. Amtrak's approval will not be issued until a complete set of final plans and computations as specified in these criteria has been received and reviewed.
- 2.5. These plans and computations must also be reviewed and approved by the local stormwater management-approving agency (town, city, county, state, etc.). Amtrak is not an approving agency for stormwater management facilities.