

**Rimmon Street – Road Reconstruction & Drainage Improvements
ConnDOT Project No. 124-169**

STORMWATER POLLUTION CONTROL PLAN
General Permit for the Discharge of Stormwater and Dewatering Wastewater from
Construction Activities



Prepared for:

Town of Seymour
1 First Street
Seymour, Connecticut 06483

Prepared by:

DeCarlo & Doll, Inc.
89 Colony Street
Meriden, Connecticut 06451



July 15, 2016



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STORMWATER POLLUTION CONTROL PLAN FOR CONSTRUCTION ACTIVITIES

1.0 INTRODUCTION AND NARRATIVE

This Stormwater Pollution Control Plan (SWPCP) has been prepared in accordance with the *General Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activities* issued August 21, 2013 by the Connecticut Department of Energy and Environmental Protection (DEEP).

The Town of Seymour is reconstructing Rimmon Street from Bank St. (Rt. 67) to the Beacon Falls Town Line. The project length is 2,956 linear feet, and includes Rimmon Street, and portions of Old Drive, Clifton Street, Prospect Street, Pershing Avenue, and Kulas Terrace. The road is a Collector Road though well-developed commercial and residential neighborhoods. Portions of the existing road are very steep; with up to 17% grades. The project entails full depth pavement reconstruction and drainage improvements in the existing roads, as well as replacement of public sidewalks, neighbor's driveways, road shoulders, and associated construction along the route.

Construction is anticipated to begin in October 2016, and be completed by June 2018. It will take approximately 17 months assuming two winter shut-downs. The estimated construction price is \$3.3 ± million dollars.

2.0 SITE DESCRIPTION

The lower portions of Old Drive and Rimmon Street lie adjacent to the Little River and contain mixed commercial and residential neighborhoods. Rimmon Street then rises very steeply; with an up to 17% grade in some locations, though well-developed residential neighborhoods until it reaches the Beacon Falls Town Line in 0.56 miles. The pavement is in distress, and the width is variable with typical widths ranging for 20' to 30'. There are sidewalks along the lower portions of the road, but no shoulders or bike lanes. The Right of Way is narrow; only 40 feet wide in some areas. There are a number of driveways, retaining walls, and street trees along the route. There are also several private drainage systems that discharge onto the pavement.

See the attached Location Map for additional information.

Refer to Roadway Plans PLN-1 to PLN-6 for additional information.

2.1 Scope of Construction Activities

Originally, the project was to mill and overlay the existing pavement, but due to the pavement distress the entire roadway is being reconstructed to a uniform 24 foot width. There will all new drainage systems, with underdrains added to extend pavement lifespans. No water mains or sanitary sewers are proposed, and the other utilities are aerial. Some reconstruction of vertical curves are proposed to improve sightlines as a

safety measure. Due to the limited R.O.W. no significant horizontal relocations are proposed. Existing sidewalks are being replaced, with new handicapped-accessible ramps.

The goal was to re-grade the road within the existing Right of Ways (R.O.W.) and minimize the need for easements on private property. Most of the construction occurs within Town-owned Right of Ways (R.O.W.). The ConnDOT is obtaining or has obtained seven grading and drainage easements or R.O.W. acquisitions from adjoining property owners.

The existing storm drainage system is undersized and is being brought up to current Seymour and ConnDOT design standards for a 10 Year Design Storm.

This construction site is classified as “Locally Approvable Project” for the purpose of the General Permit. The Town received an Inland Wetlands Approval from the Seymour Inland Wetlands Commission on April 25, 2016. A Stormwater Management Plan Review (a separate local permit) was also approved at that meeting. The approval conditions from both permits have been incorporated into the construction documents.

TABLE 1: CONTACT LIST

Contact	Title	Phone	e-mail
Town of Seymour – Registrant			
Kurt Miller	First Selectman	(203) 888-2511 (office)	kmiller@seymourct.org
DeCarlo & Doll – Owner’s Engineer			
Terrance Gallagher, P.E.	Civil Engineer	(203) 379-0320 x242 (office)	tgallagher@luchs.com
Edgar Kerr	Senior Engineer	(203) 379-0320 x229	kerr@luchs.com
Remo Lalama	Senior Engineer	(203) 379-0320 x252	lalama@luchs.com
Doron Dagan, P.E.	President	(203) 379-0320	dagan@luchs.com
ConnDOT			
Thomas Faenza	Local Roads	(86) 594-3231	thomas.faenza@ct.gov
Contractor - TBD			

2.2 Area of Disturbance

The total Right of Way Area for Rimmon Street, Old Drive, and the surrounding streets within the project area is 4.26 acres. The Area of Disturbance is 3.83 acres.

2.3 Stormwater Discharge Information

The existing Town R.O.W. is narrow and mostly paved, and some residential properties encroach into the R.O.W.

The Rational Runoff Coefficient (C) for existing conditions is 69.8 (61.3% impervious cover).

The Rational C for proposed conditions is 70.1 (61.7% impervious cover).

There is a minimal (1,285 S.F.) increase of impervious cover within the 4.26 acre project limits.

2.4 Receiving Waters

The majority of the project lies within the watershed of the Little River (Drainage Basin # 6920-00), a tributary of the Naugatuck River. Outlet #2 at Kulas Terrace is in the Naugatuck River watershed (Drainage Basin # 6900-00).

The proposed storm Outlet #1 occur at the location of existing Outlet #1 and consolidates 4 other existing outlets into one proposed outlet. Outlet #1 at Old Drive has been increased from a 15" RCP to a 30" RCP at Sta. 13+36. The single outlet allows all the road runoff to be treated by a new off-line hydrodynamic separator prior to discharge to the Little River. The proposed watershed for Outlet #1 is 43.97 acres. A new concrete endwall and rip rap apron are proposed at Outlet #1 for erosion protection.

The proposed storm Outlet #2 near Kulas Terrace has been increased from a 12" RCP to a 15" RCP at a new headwall at Sta. 35+11. A new pre-formed scour hole lined with rip rap is proposed for improved erosion protection. The existing stone headwall will be removed, and the new pre-formed scour hole will be graded to blend with the existing stone lined channel. Catch basins with 4 ft. deep sumps are proposed for water quality renovation near the outlet, with 2 ft. deep sumps provided on all the other catch basins. SNOOT fiberglass hoods are proposed over the outlets for enhanced retention of road sand, debris, floating oil and grease, and other pollutants.

No drainage diversions are proposed.

2.5 Wetland Acreage

1. There are three wetlands within the project limits. Wetland #1 is located at Old Drive along the Little River; a storm sewer endwall is being replaced with a new headwall and rip rap at Station 13+36 (Outlet #1) and entails **250 square feet (sf) of wetland disturbance at that location**. The existing stone wall that lines the Little River in that location is being maintained in place to avoid disturbance along

the riverbank. A number of existing drainage outlets into the river are being consolidated into one proposed outfall so the storm sewers can be equipped with water quality measures. There is work in the 100 foot (ft.) Upland Review Area in existing streets and properties near Wetland #1.

2. Wetland #2 is an existing inlet pipe and intermittent watercourse at Prospect Street at Station 71+17 that drains into the existing storm drainage system (Inlet #1). There is **no wetland disturbance at that location**. There is work in the 100 ft. Upland Review Area in existing streets and properties downhill of Wetland #2.
3. Wetland #3 is an existing stone line channel at Station 35+07 near Kulas Terrace. The stone lined channel is the outlet for an existing stone headwall discharging road runoff. **There is no wetland disturbance at that location**. A new headwall, rip rap scour hole, and associated street construction is being constructed uphill of the existing headwall within the 100 ft. Upland Review Area (Outlet #2).

The wetlands were flagged by a Certified Soils Scientist and the flags were located by a Licensed Land Surveyor.

Various alternatives were examined to avoid or minimize disturbance to wetlands. The design submitted is the most feasible and prudent alternate to provide the drainage and traffic designs required by the Town with minimal wetland impact. A number of Design Exceptions were approved by the ConnDOT to lessen the impact of road construction on adjoining property owners and limit disturbance.

3.0 CONSTRUCTION SEQUENCING

Bidding is scheduled to begin on August, 17, 2016, with bids due on September 9, 2016. The Contract will be awarded by September 28, 2016 with a Notice to Proceed on October 12, 2016. Construction can begin in November 2016, is expected to take approximately 17 working months, with two winter shut-down periods, depending on utility relocation work. Construction will be completed by June 2018.

The selected contractor will submit a more detailed construction schedule and construction sequence after bid award.

4.0 CONTROL MEASURES

The construction documents contain a series of control measures designed to protect the Little River, Seymour residents and businesses, along with Private, Town and State property during construction.

4.1 Sediment & Erosion Controls

All areas shall be protected from erosion and sedimentation during and after construction, particularly the storage of excavated or stockpiled material in accordance with the methods recommended by the “2002 Connecticut Guidelines for Soil Erosion and Sediment Control”.

The site is steep and mostly paved. The underlying soils are glacial tills, and may have a seasonal high water table due to the various underdrains and pavement distress that is visible. Refer to the test pits and soils data in the construction documents for additional information.

4.1.1 Temporary Stabilization Practices and Protection

The primary sediment and erosion control goal is to avoid disturbing soil until necessary, by maintaining existing pavement while renovating the road and utilities, and by providing temporary cover for exposed slopes and road areas. The following Best Management Practices will be used to protect and stabilize the site:

Sedimentation and erosion control will be maintained by the contractor and replaced as needed or as directed.

The following sedimentation and erosion control methods will be applicable to this project:

- Silt fences will be placed at the toe of all fill slopes (SF).
- Hay bales will be placed at the toe of all fill slopes and around all catch basins (HB).
- Temporary silt sack will be installed at all catch basins (SS).
- Proposed riprap scour pad at drainage outlet at Little River.
- Proposed deep sump catch basins before outlets (CB).
- Proposed Hydrodynamic Separator (HDS).
- Vehicle Tracking and Dust Control (DC). The existing and constructed roadway surface will be swept daily and water or calcium chloride will be used to control dust.
- Earth cuts and fill slopes will be stabilized with topsoil, seed and mulch (MS).
- Erosion control blankets (semi-permanent) are proposed on the larger cut slopes along Rimmon Street shoulders (ECB).
- The existing stone wall/slope along the Little River will remain undisturbed except for the new endwall at Outlet #1.
- A Water Handling Plan has been prepared for temporary shoring and runoff controls during relocation of existing utilities during construction of the hydrodynamic separator and associated work. Temporary steel sheet piles or other methods will be used to support the excavation and protect the bank along the Little River during construction.
- Rip rap is proposed around the headwall Outlet #1 for permanent erosion protection at the Little River.
- Phased Construction
- Limits of Grading and Disturbance

- Tree and Shrub Protection
- Selected Clearing
- Utility Protection

The limits grading and disturbance are shown to contain construction activities and limit off-site disturbance. Trees and shrubs to be protected are indicated on the plans. Areas of selected vegetation clearing are also shown. Existing utilities to be maintained and protected are also indicated.

The existing stone wall along the Little River will remain largely undisturbed. The existing sidewalk and curb will be relocated further inland from the top of the river bank. The various existing storm sewer outlets to the Little River will be closed and consolidated into one 30" RCP. A Water Handling Plan with sheet piling and dewatering is included to permit construction of Outlet #1, the Hydrodynamic Separator, and the utility relocations without impacting the Little River or adjacent wetlands.

Watering, calcium chloride, and other methods may also be used to control dust.

See the construction documents for additional information.

Additional controls found in the Connecticut Soil and Erosion Control Guidelines may be applied if needed.

4.1.2 Structural Measures

Due to limited R.O.W. area, no large structural measures are proposed. Small, above grade Temporary Sediment Traps (TST), may be constructed near storm outlets sump pump dewatering. The TST's may be constructed of haybales, silt fence, crushed stone, or other materials.

Temporary Sediment Traps will be constructed with 134 c.y. volume per disturbed acre of tributary area (2-5 acres max.) per 2002 Soil and Erosion Control Guidelines.

4.1.3 Sediment and Erosion Control Maintenance

Contractor shall review the sediment and erosion controls at least monthly, and replace any Silt Sacks, haybales, silt fence, construction entrance stone, temporary drainage, or other measures as necessary to maintain initial controls in original working order per the 2002 Soil and Erosion Control Guidelines.

In addition to regular maintenance, review controls after flood events, repair erosion if necessary; remove sediment that may have washed onto pavement, replace erosion controls, reseed areas, and restore erosion controls and hydroseed.

A Flood Management Certification (FMC) for the project has been approved by the ConnDOT. The contractor shall comply with all FMC conditions, as well as all Town of Seymour requirements.

Deposits of sediment and silt are to be periodically removed from the upstream side of the silt fence, or haybales. This material is to be spread and stabilized in areas not subject to erosion, or in areas that are not to be paved or built on, or removed from the site.

The sedimentation control system (Haybales, SiltSoxx, silt fence, or other methods) are to be reset or replaced as necessary to provide proper filtering action. The system is to remain in place and be maintained to insure efficient siltation control until all areas above the fence are stabilized and vegetation has been established.

Temporary seeding, mulch, or hydroseeding of interim graded areas where final grading is not scheduled for extended periods and where no erosion controls are shown. All areas shall be mulched with hay at the rate of 1.5 to 2 tons per acre.

Additional silt fence or haybales in areas not shown on the construction plans may be added by the Contractor if necessary during construction.

All temporary sediment and erosion controls shall be removed at the end of construction after all areas are fully stabilized.

4.2 Dewatering Wastewaters

Refer to the Water Handling Plan for dewatering wastewaters, and construction documents for trench dewatering. A number of utility excavations may be within the ground water table. In the event that ground water is encountered, it will be pumped out of a trench and discharged into a Temporary Sediment Trap, toward a vegetated filter strip, or to a Silt Sack in a catch basin.

No dewatering discharge hoses shall bypass sediment and erosion controls.

4.3 Post-Construction Stormwater Management (Runoff Reduction and Low Impact Development (LID) Practices

Currently there are no stormwater quality controls on Rimmon Street or any of the surrounding streets. All stormwater runoff is piped directly to the Little River or wetlands.

There are no existing detention systems. Due to limited road R.O.W., and the constraints of limiting impacts to adjacent residential property, and the Little River Floodplain, structural stormwater Best Management Practices were selected.

The main storm Outlet #1 is being retrofitted with an off-line Hydrodynamic Oil Separator that is designed in accordance with ConnDOT and CT DEEP requirements. The failing

stone headwall will be replaced with a reinforced concrete headwall. The headwall will be cast using a form liner to match the existing stone wall in accordance with Town of Seymour IWC permit conditions. A rip rap apron will be installed at the outlet, and the rip rap will be placed outside the FEMA Floodway in accordance with the ConnDOT FMC requirements.

The Contractor will train the Town of Seymour Department of Public Works staff in how to maintain the specific Hydrodynamic Separator model selected, at the end of construction during final cleaning, in accordance with Seymour Stormwater Permit approval conditions.

Outlet #2 near Kulas Terrace is a smaller system, and is being retrofitted with deep sump catch basins, with SNOUT hoods over the outlets. The headwall will also be cast with a form liner, and be equipped with a pre-formed scour hole to protect against erosion.

The existing Rimmon St. R.O.W. is 69.8% impervious, which is greater than 40% impervious cover, and is classified as a Redevelopment Project for the purposes of this permit. Because the site is a Redevelopment Project only ½ of the typical Water Quality Volume (WQV) is required to be provided. The actual WQV provided is zero due to steep slopes, floodplains, limited R.O.W. and underground utilities.

TABLE 2: WATER QUALITY VOLUMES

Condition	Water Quality Volume Required (CF)	Water Quality Volume Provided (CF)	Drainage Area
Existing	none	none.	49.21 ac
Proposed	none	none	49.21 ac

The wetlands and floodplain impacts of the proposed road project have been minimized.

The LID Practices implemented at the Rimmon Street project include:

- Site Planning; reuse of the existing road R.O.W. and protection of the Little River floodplain

The Post-Construction BMP's include:

- Existing catch basins will be replaced with new catch basins to have 2' deep sumps and SNOUT hoods over the outlets (for Outlet #2 at Kulas Terrace). The SNOUT hoods, (or alternative products), will trap sediment, pollutants attached to the sediment, trash and floating debris, floating oil and grease.

- A Hydrodynamic Separator will be added at Outlet #1 and the various outlets are being consolidated prior to discharge to the Little River.

4.4 Permanent Stabilization Measures

The following permanent stabilization measures will be employed at Rimmon Street. Most of the road Right of Way will continue to be covered with bituminous pavement, concrete sidewalks, and grass shoulders.

- Adjacent private driveway aprons, sidewalks, steps, and retaining walls will be preserved or rebuilt.
- Adjacent yards will be stabilized with seed, mulch, erosion control blankets, or other methods as necessary.
- The existing stone walls along the Little River are being preserved.
- The existing headwalls will be replaced with concrete headwalls designed to match the existing walls.
- New rip rap aprons and pre-formed scour holes are proposed at storm outlets for long-term erosion protection.

The landscaping for the road will not require continuing fertilization or irrigation after the initial grow in period.

4.5 Other Controls

4.5.1 Waste Disposal

Road demolition debris and former utilities will be collected and removed from the site in accordance with the Project Specifications. Where possible, demolition material will be recycled. Portions of the existing pavement will be milled and re-used for road base.

A specification for Controlled Materials Handling, and a plan showing Areas of Environmental Concern have been prepared. A small Waste Stockpile Area is shown on the northeast corner of Rimmon Street and Old Drive, outside of the floodplain fringe, to be used if Controlled Materials are encountered during excavations.

4.5.2 Construction Materials

Construction Waste will be collected in containers and recycled, or disposed of legally off-site. Cardboard, lumber, metal, pallets, and other products will be stored in separate containers for recycling and disposal.

4.5.3 Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in designated washout areas. Latex paint wash water, and other cleaning chemicals shall be discharged to sanitary sewer or drummed for off-site disposal. There shall be no surface discharge of washout wastewater from this area.

There washout areas shall be at least 50 feet from any watercourse or channel, or be in an entirely self-contained washout system.

There shall be no discharge of any washout wastewater to storm drains or streams.

The cleaning and removal of hardened concrete and other materials shall be noted in the weekly construction records. Refer to the page 33 of the General Permit for other washout requirements. Concrete wash out pits will be constructed near the access drive for use in cleaning out redi-mix trucks, and other vehicles, after delivery. Dumping of liquid wastes into storm sewers will be prohibited.

4.5.4 Fuel Spill Protection

During construction, any onsite fuel tanks for construction vehicles will be equipped with a fuel containment barrier. Oil and/or fuel storage facilities will be allowed on site outside the floodplain fringe, and stored within impermeable containers with at least 110% of the volume of the fuel container. Fuel will be delivered to the equipment as needed. Equipment maintenance will be done on and off-site. Disposal of contaminated and/or hazardous materials will be done in accordance with Contract Documents.

5.0 ADDITIONAL CONTROLS FOR IMPAIRED WATERS

The site does not drain to any of the waterbodies listed on the Impaired Waters Table for Construction Discharges.

6.0 RUNOFF REDUCTION AND LOW IMPACT DEVELOPMENT

The major Low Impact Development (LID) Best Management Practices consist of providing only a 24 foot wide road cross section for most of the project. The road tapers down to match a narrower road cross section near the Beacon Falls Town Line.

Existing storm Outlet #1 will be retrofitted with an off-line Hydrodynamic Separator.

Existing catch basins draining to Outlet #2 will be replaced with new basins that have 2' deep sumps and SNOOT hoods over the outlets to trap sediment, floating oil and grease, and trash and debris.

The existing stone retaining walls along the Little River are being preserved. The sidewalk along the river bank is being relocated inland where possible. The existing road is designed to match existing grades within the Floodplain fringe. There are no impacts within the FEMA Floodway.

7.0 INSPECTION

Initial Inspection:

Within 30 days of the commencement of any new (i.e. post February 1, 2014) phase of construction activity on the site an independent qualified inspector will inspect the site to confirm compliance with the General Permit for new construction, and to verify implementation of control measures as outlined in this plan. The inspector will fill out an inspection report following this visit and review it with Town of Seymour and the General Contractor.

DeCarlo & Doll are the Town of Seymour's Engineer performing periodic inspections.

Routine Inspections:

The Contractor will install and maintain a rain gauge on site to document rainfall amounts.

At least once a week and within 24 hours on the end of a storm that generates a discharge, a qualified inspector shall inspect:

- All erosion and sedimentation control measures
- All structural control measures
- Soil stockpile areas
- Washout areas and location where vehicles enter or exit the site.
- Culvert discharge and temporary water handling.

These areas shall be inspected for evidence of or the potential for pollutants entering the drainage system and impacts to the receiving waters.

Areas where vehicles enter or exit the site shall also be inspected for evidence of off-site sediment tracking.

The Routine Inspections will note the effectiveness of controls, identify any areas that need maintenance, cleaning, replacement, or additional controls, and follow-up actions to improve sediment and erosion control performance.

Final inspections will be made at the end of construction and following final stabilization as outlined in the General Permit.

8.0 TURBIDITY MONITORING

The Town of Seymour will conduct turbidity monitoring, and submit the test results monthly to the DEEP. Sampling will be done in accordance with 40 CFR Part 136 and DEEP requirements

1. Sampling will be conducted at least once every month when there is a discharge of stormwater from the site while construction activity is ongoing.
2. All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge.
3. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and characteristics of the discharges. The first sample shall be taken within the first hour of stormwater discharge from the site.
4. Several discharge points that discharge substantially identical runoff based on similarities of the exposed soils, slope and type of stormwater controls used may on this site and therefore up to five substantially identical outfalls may be identified for one representative discharge.
5. It is anticipated that only the existing 18" CMP culvert under the MetroNorth railroad tracks needs to be sampled.
6. Samples shall be taken monthly, however if there is no significant storms greater than 1/2" then that should be noted in the Testing Log.
7. Sample each outfall three (3) times; first sample during the first hour of storm discharge or at the start of normal working hours, and the next two samples should be representative of the discharge throughout the storm.
8. Samples may be taken either via manual grab or automated collection system (but using individual samples not composite).
9. Upload test results to the DEEP within 30 days after receipt back from the lab either using NetDMR electronic reporting, or manual reporting. (NOTE – electronic reporting is required after first 6 months –see page 40 of Permit, or an Opt-Out request must be approved)

TABLE 3: SAMPLING LOCATIONS

Outfall	Size & Type	Drainage Area	Latitude	Longitude	Location
#1	30" RCP (ex. 15" RCP)	43.97 ac,	41.3983861	-073.0805389	Sta. 13+36 Little River
#2	15" RCP (ex. 12" RCP)	5.24	41.4041944	-073.0806250	Sta. 35+11 Kulas Terr.

9.0 KEEPING PLANS CURRENT

The Town of Seymour, shall amend this Plan when there is a change in contractors or subcontractors at the site that impacts stormwater pollution controls. The Plan will also be amended where changes in design, construction, phasing, operation or maintenance of the site has the potential for discharge of pollutants to surface waters. Additions to the Plan may be made during construction to address issues and conditions that were not originally anticipated as part to the original designs to prevent pollution.

Amendments to the plan may be in a simple memo format that identifies the item and any modification to the SWPCP.

The Contractor(s) shall conform to the stipulated requirements for Reporting and Record Keeping as contained in the General Permit.

Weekly and monthly inspections of the site will be conducted and documented. Monthly turbidity monitoring reports will be maintained in the same notebook. The construction inspection records shall be maintained on-site in the Job Trailer/Field Office for review by CT DEEP or Seymour Town Engineer, ConnDOT or agents during business hours.

10.0 CERTIFICATION STATEMENT

Contractors and Subcontractors must certify that they have read the plan, are aware of the requirements, and will conduct construction in accordance with the permit (see blank forms attached with this permit).

At this time the Contractors that will have to complete this certification include but are not limited to:

site contractor
utility companies
environmental subcontractors

TG - Q:\Projects\DD Projects\51845 Seymour Rimmon
Street\Highways_All_Other_Data\Permits\CTDEEP - Construction Stormwater\Rimmon St Seymour
51845 SWPCP 07-15-16.docx

PROJECT: Rimmon Street, Seymour -Construction Stormwater – Sediment & Erosion Controls

The following is list of contractors that have reviewed the Re-Registration, Stormwater Pollution Control Plan and General Permit for the Rimmon Street – Road Reconstruction and Drainage Improvements in Seymour:

General Contractor and Subcontractor Certification Statement:

“I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site.”

Contractor’s Name/Title

Signature

Date

Rimmon Street – Road Reconstruction and Drainage Improvements
Seymour, Connecticut

Subcontractor Certification Statement:

“I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site.”

Contractor’s Name/Title

Signature

Date

Rimmon Street – Road Reconstruction and Drainage Improvements
Seymour, Connecticut

FIELD INSPECTION REPORT Construction Stormwater General Permit

PROJECT NO.: 51845 **DATE:**
PROJECT: Rimmon Street, Seymour, CT
BY: **TIME:**
LOCATION: **REP. NO.**

This Field Inspection Form is for compliance with General Permit requirements. Routine Inspections will be performed weekly or after a ½” rainstorm. Inspection reports to be stored on-site at the construction field office. See also separate Monthly Turbidity Monitoring Reports.

General Conditions				
Weather	Rain Gage	Last Rain	Construction Stage	Disturbed Area (ac)
Work Areas	Station & Offset	Activity		
Road Conditions	Clean	Partly Clean	Muddy	Const. Entrances
Dust Control	Road Swept	Road Watered		CaCl Applied
Housekeeping	Trash	Storage	WSA	Recycling
Yard	Parking	Fuel Storage	Const. Fence	Washout Areas
Silt Fence	Haybales-SiltSoxx	Earth Stockpiles	Demolition	Interior
Storm Outfall	Flow Depth	Clear	Muddy	Oil Sheen
HW #1 30”/18” RCP at Little River				
HW #2 15” RCP at Kulas Terrace				
HDS	CB SiltSacks	Blind Plugs	Rain Garden	

Dewatering	Channel	Trench	Excavation	Controls
Slope Stabilization	Retaining Walls	Steps	Drive Aprons	
Action Items	Item	Work Required	Work Completed	Notes
Inspection Summary	General Condition	Turbidity Monitoring	Photographs	Update Inspection Log

The Project is / is not in compliance with the requirements for the General Permit #TBD

Signed:

Date:

TG:Q:\Projects\DD Projects\51845 Seymour Rimmon Street\Highways_All_Other_Data\Permits\CTDEEP
 - Construction Stormwater\FOR Rimmon Street 51845 Inspection 07-15-16.docx



**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: Town of Seymour

Mailing Address: 1 First Street, Seymour, CT 06843

Business Phone: (203) 888-2511 ext.: _____ Fax: (203) _____

Contact Person: Kurt Miller Title: First Selectman

Site Name: Rimmon Street - Road Reconstruction and Drainage Improvements

Site Address: Rimmon Street & Old Drive from Bank St (Rt 67) to Beacon Falls Town Line - 0.56 miles

Receiving Water (name, basin): 6920-00 Little River

Stormwater Permit No. GSN

SAMPLING INFORMATION (Submit a separate form for each outfall)

Outfall Designation: Outfall #1; 30" RCP at Sta. 13+36 (Little River - ex. 15" RCP) Date/Time Collected: _____

Outfall Location(s) (lat/lon or map link): 41.3983861, -073.0805389

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



**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: Town of Seymour

Mailing Address: 1 First Street, Seymour, CT 06843

Business Phone: (203) 888-2511 ext.: _____ Fax: (203) _____

Contact Person: Kurt Miller Title: First Selectman

Site Name: Rimmon Street - Road Reconstruction and Drainage Improvements

Site Address: Rimmon Street & Old Drive from Bank St (Rt 67) to Beacon Falls Town Line - 0.56 miles

Receiving Water (name, basin): 6900-00 Naugatuck River

Stormwater Permit No. GSN

SAMPLING INFORMATION (Submit a separate form for each outfall)

Outfall Designation: Outfall #2; 15" RCP at Sta. 35+11 (Kulas Terrace - ex. 12" RCP) Date/Time Collected: _____

Outfall Location(s) (lat/lon or map link): 41.4041944, -073.0806250

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



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: Town of Seymour			
3. Site Address: Rimmon Street - from Bank St. to Beacon Falls Town Line			
City/Town: Seymour	State: CT	Zip Code: 06483	
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 checked="" type="checkbox"/> Other (describe): Town Road Reconstruction			

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
Kurt Miller	First Selectman, Seymour
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

**Rimmon Street – Road Reconstruction and Drainage Improvements
STORMWATER POLLUTION CONTROL PLAN**

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

**ATTACHMENT A:
USGS Location Map**

Prepared for:

Town of Seymour
1 First Street
Seymour, Connecticut 06483

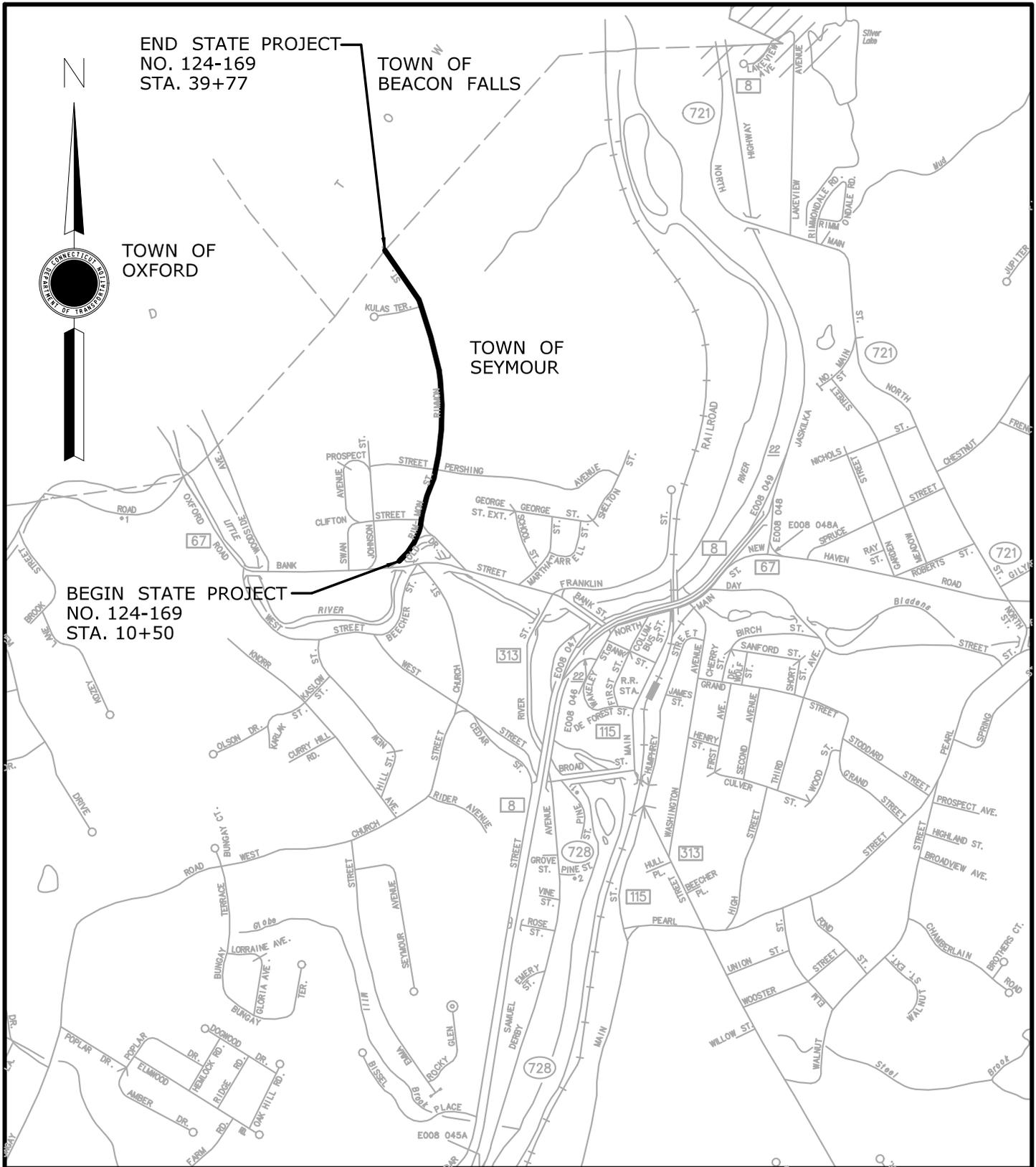
Prepared by:

DeCarlo & Doll, Inc.
89 Colony Street
Meriden, Connecticut 06451



**DECARLO
& DOLL, INC.**

July 15, 2016



END STATE PROJECT
NO. 124-169
STA. 39+77

TOWN OF
BEACON FALLS

TOWN OF
OXFORD

TOWN OF
SEYMOUR

BEGIN STATE PROJECT
NO. 124-169
STA. 10+50

LOCATION PLAN

NOT TO SCALE

**Rimmon Street – Road Reconstruction and Drainage Improvements
STORMWATER POLLUTION CONTROL PLAN**

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

**ATTACHMENT C:
Natural Resources Database Review**

Prepared for:

Town of Seymour

1 First Street

Derby, Connecticut 06483

Prepared by:

DeCarlo & Doll, Inc.

89 Colony Street

Meriden, Connecticut 06451



**DECARLO
& DOLL, INC.**

July 15, 2016



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

March 12, 2016

Terrance Gallagher, P.E.
Decarlo & Doll, Inc.
89 Colony St
Meriden, CT 06451
tgallagher@luchs.com

Project: Rimmon Street Road Reconstruction and Drainage Improvements on Rimmon Street from Bank Street (Route 67) to the Beacon Falls Town Line in Seymour
NDDB Determination No.: 201602900

Dear Terrance Gallagher, P.E.,

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding the area delineated on the map provided for the proposed Rimmon Street Road Reconstruction and Drainage Improvements on Rimmon Street from Bank Street (Route 67) to the Beacon Falls Town Line in Seymour, Connecticut. I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site based upon the information contained within the NDDB. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits. This determination is good for one year. Please re-submit an NDDB Request for Review if the scope of work changes or if work has not begun on this project by March 12, 2017.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or dawn.mckay@ct.gov . Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Dawn M. McKay
Environmental Analyst 3

Natural Diversity Data Base Areas

SEYMOUR, CT

September 2015

-  State and Federal Listed Species & Significant Natural Communities
-  Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

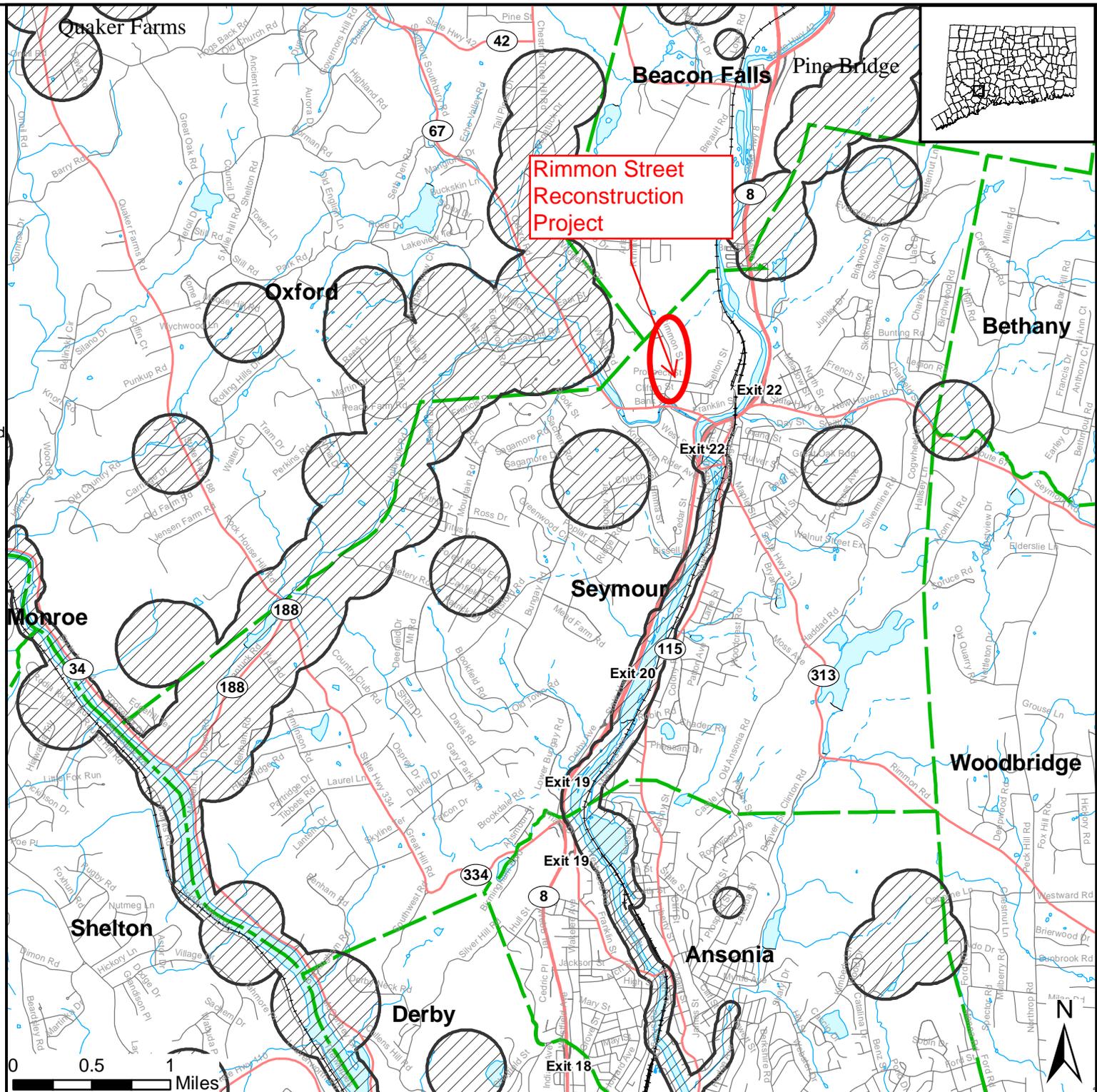
www.ct.gov/deep/nddbrequest

Use the CTECO Interactive Map Viewers at www.cteco.uconn.edu to more precisely search for and locate a site and to view aerial imagery with NDDB Areas.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011



Connecticut Department of Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division



**Rimmon Street – Road Reconstruction and Drainage Improvements
STORMWATER POLLUTION CONTROL PLAN**

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

**ATTACHMENT E:
Partial Plan Set and General Permit**

Prepared for:

Town of Seymour
1 First Street
Seymour, Connecticut 06483

Prepared by:

DeCarlo & Doll, Inc.
89 Colony Street
Meriden, Connecticut 06451



**DECARLO
& DOLL, INC.**

July 15, 2016

TG - Q:\Projects\DD Projects\51845 Seymour Rimmon
Street\Highways_All_Other_Data\Permits\CTDEEP - Construction Stormwater\FOR Rimmon St Seymour
Attachments.docx

TOWN OF SEYMOUR

Plans For RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS

Town of SEYMOUR

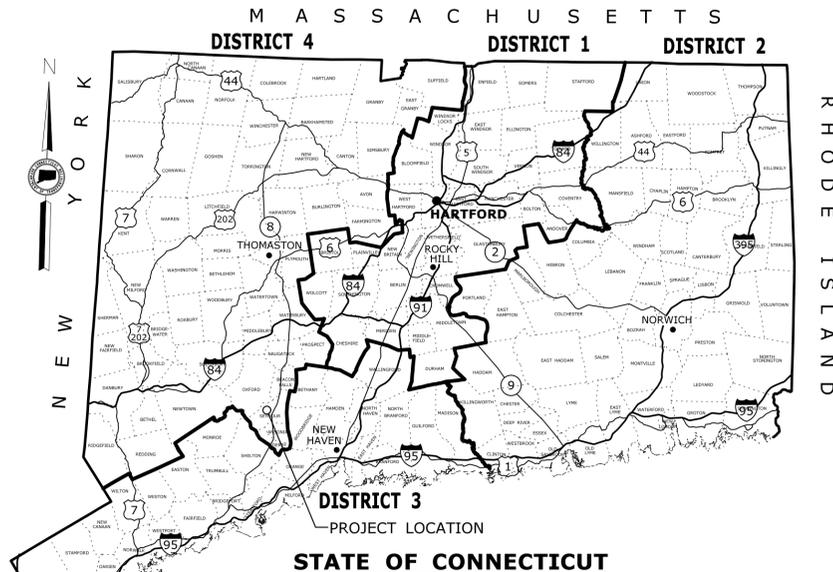


ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
RIMMON STREET	TOWN OF SEYMOUR	2608 FEET
OLD DRIVE	TOWN OF SEYMOUR	551 FEET
CLIFTON STREET	TOWN OF SEYMOUR	79 FEET
PROSPECT STREET	TOWN OF SEYMOUR	138 FEET
PERSHING AVENUE	TOWN OF SEYMOUR	120 FEET
KULAS TERRACE	TOWN OF SEYMOUR	101 FEET

F.A.P. #	MAINTENANCE RESPONSIBILITY	PROJECT #
1124(003)		

APPROVE BY:

W. KURT MILLER _____ DATE _____
TOWN OF SEYMOUR FIRST SELECTMAN



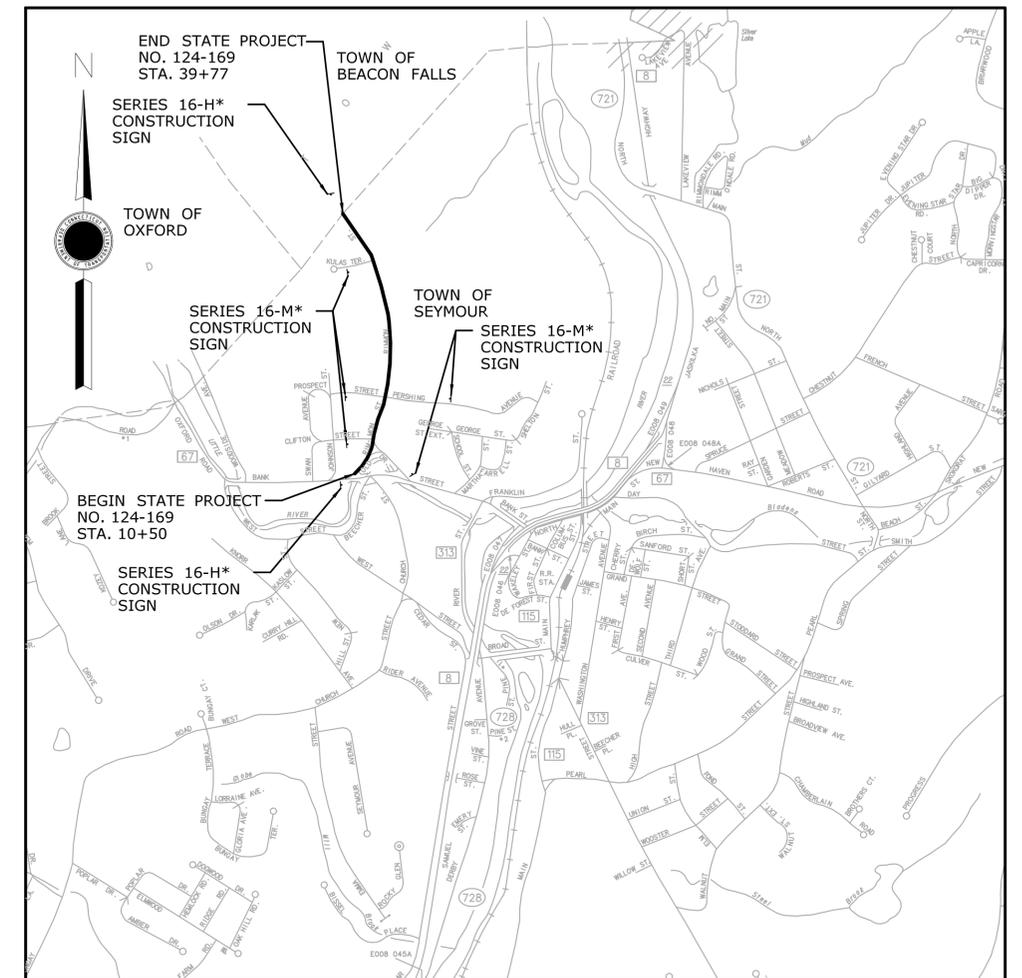
GENERAL NOTES:

- FEDERAL AID PROJECT NO. 1124(003)
- CONSTRUCTION SPECIFICATIONS:
Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, dated 2004; Supplemental Specifications, dated January 2016; and Special Provisions
- 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983
- VERTICAL DATUM BASED ON NAVD 1988

DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICAL SOURCES WITHIN THE DEPARTMENT.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICAL, INCOMPLETE AND/OR INACCURATE INFORMATION.



***NOTE:**
ACTUAL LOCATION OF SERIES 16-H AND 16-M CONSTRUCTION SIGNS SHALL BE DETERMINED BY THE ENGINEER

LOCATION PLAN

NOT TO SCALE

LIST OF SUBSETS		
SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
01	GENERAL	5
02	REVISIONS	1
03	HIGHWAY	125
04	TRAFFIC	11
05	ENVIRONMENTAL	2
06	EVSOURCE ENERGY - ELECTRIC	7
07	EVSOURCE ENERGY - GAS	4
08	AQUARION	3
	CTDOT HIGHWAY STANDARD SHEETS	19
	CTDOT TRAFFIC STANDARD SHEETS	7

*THE INITIAL SUBSET SHEET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS

LIST OF DRAWINGS SUBSET 01 - GENERAL	
DRAWING TITLE	DRAWING NO.
TITLE SHEET	G-1
DETAIL ESTIMATE SHEET	EST-1
DETAIL ESTIMATE SHEET	EST-2
DETAIL ESTIMATE SHEET	EST-3
DETAIL ESTIMATE SHEET	EST-4

STANDARD CONVENTIONS			
North Arrow W/No. Coord.	Grid Arrow	Chain Link Fence	Riprap
Edge Of Road	Limit Of Marsh	Rustic Fence	Hedge Row
Concrete Pavement	Stone Wall	Pipe Fence	Tree Line
Dirt Road	Ledge Outcrop	Board Fence	Shrub
B.C.L.C.	Inland Wetland Limits	Water Edge	Evergreen Tree
Granite Curb	STATE LINE	Stream	Deciduous Tree
Guide Rail	Power Line	Ditch	Retaining Wall
Concrete Median Barrier	Swamp	TOWN LINE	Highway Line
Bit. Walk	Building	Transmission Tower	Street Line
Conc. Sidewalk			Property Line
Railroad Tracks			Lot Line
			Easement Line

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

DESIGNED BY:

DE CARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451

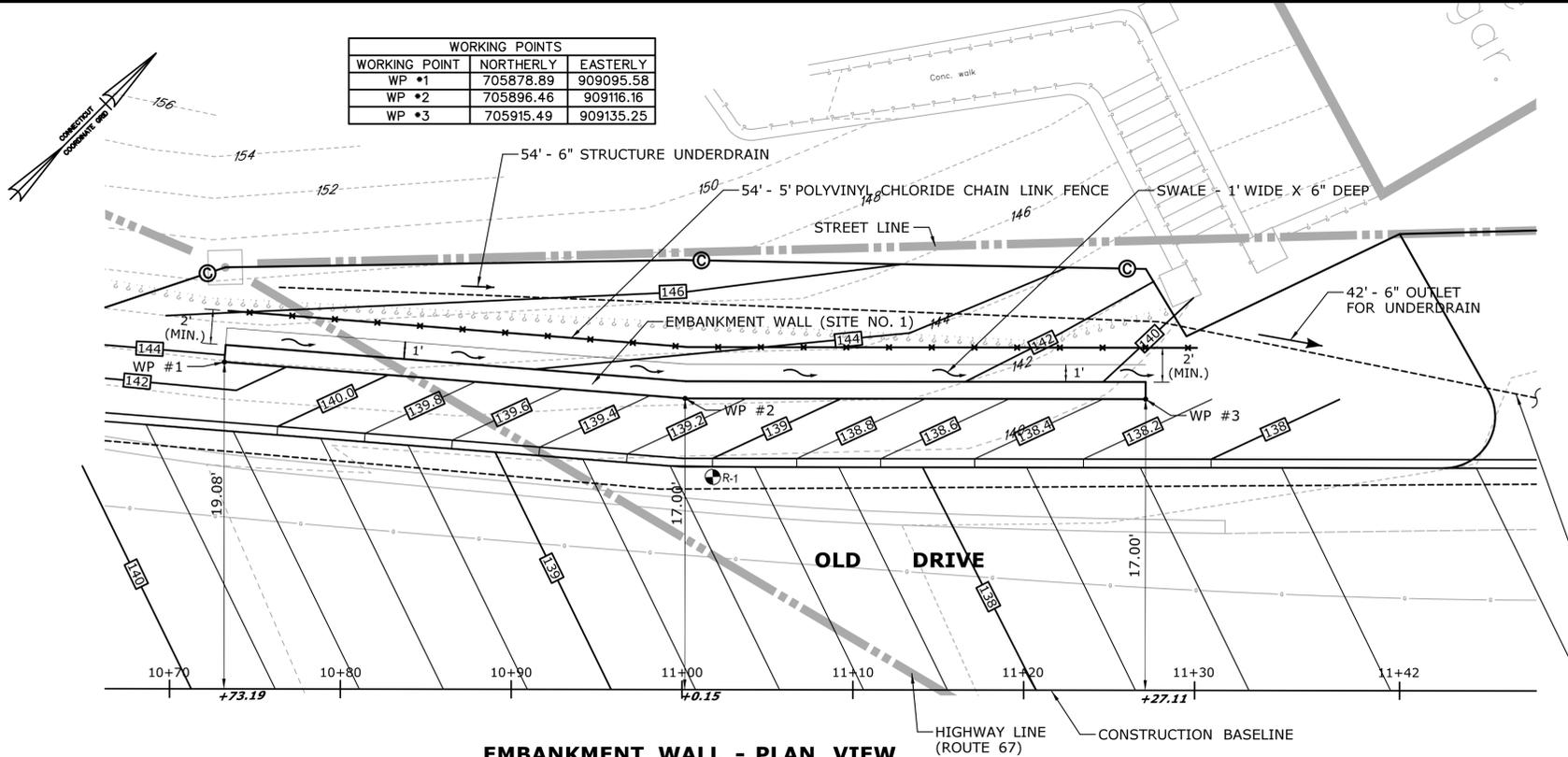
Plans For
**RIMMON STREET
RECONSTRUCTION AND
DRAINAGE IMPROVEMENTS**

Town of
SEYMOUR

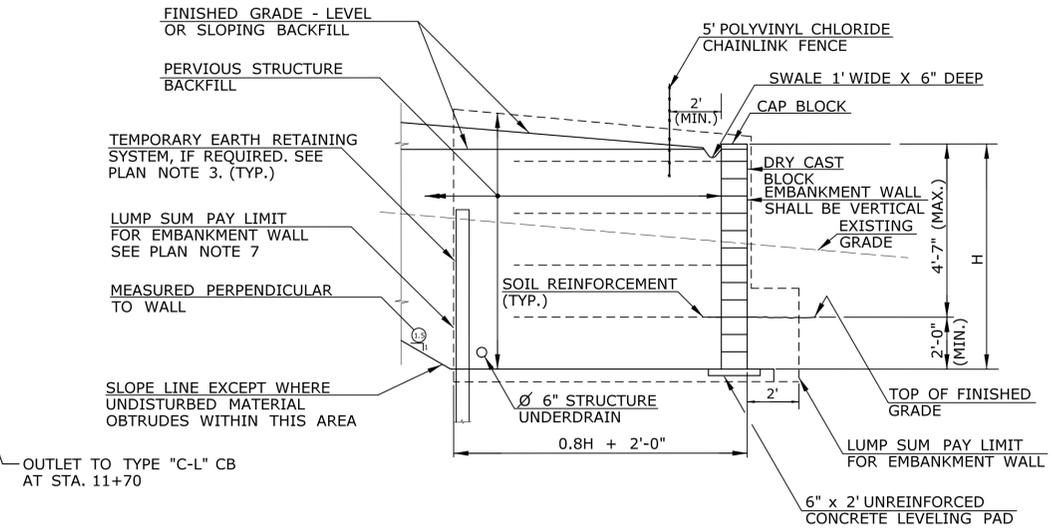
STATE PROJECT NO.
124-169

DRAWING NO.
G-1
SHEET NO.
1

WORKING POINT	NORTHERLY	EASTERLY
WP *1	705878.89	909095.58
WP *2	705896.46	909116.16
WP *3	705915.49	909135.25



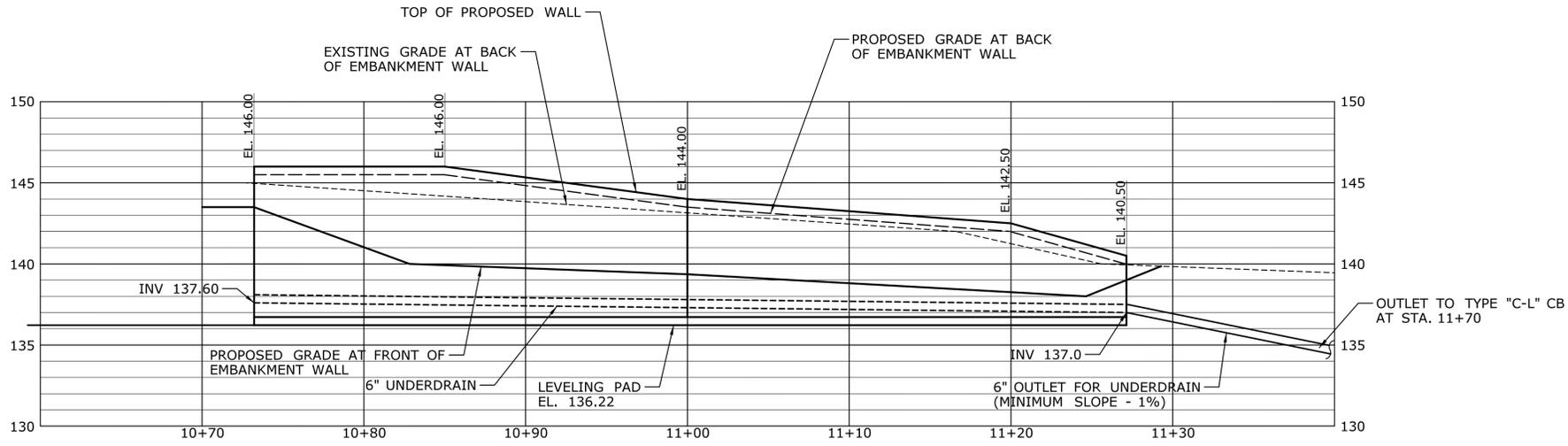
EMBANKMENT WALL - PLAN VIEW
 SCALE 1"=5'



EMBANKMENT WALL TYPICAL SECTION
 NOT TO SCALE

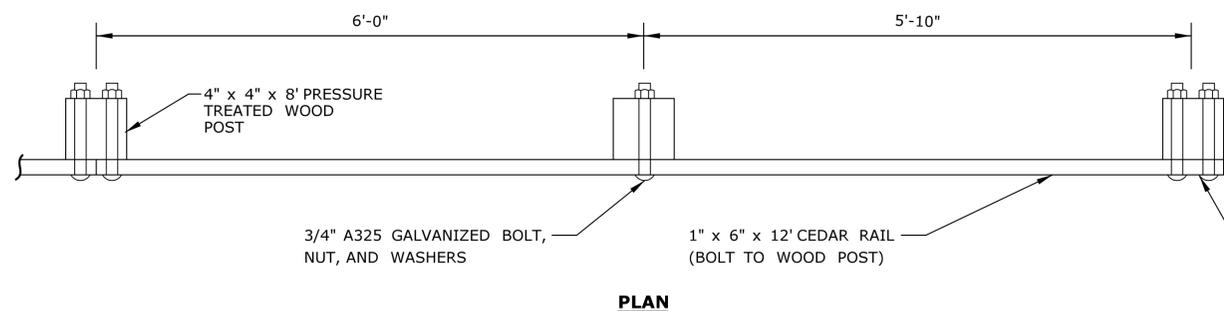
PLAN NOTES:

1. THE EMBANKMENT WALL SHALL BE DESIGNED, DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "EMBANKMENT WALL- (SITE NO.1)".
2. THE MAXIMUM ALLOWABLE BEARING PRESSURE FOR THE SOIL SHOULD BE 1.5 TONS PER SQUARE FOOT.
3. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH THE SHEET PILING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL.
4. DETAILS SHOWN ON THIS SHEET ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHOULD MODIFY THE SECTION AS NEEDED.
5. THE CONTRACTOR SHALL SELECT, DESIGN (FOR PROPRIETARY WALLS ONLY) AND CONSTRUCT ONE OF THE WALL OPTIONS AS LISTED IN THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 1)".
6. THE CONTRACTOR SHALL PROVIDE FACE BLOCK WALL UNIT SAMPLES (FOR EMBANKMENT WALL SITE NO. 1) TO THE CITY OF SEYMOUR FOR REVIEW AND CHOOSING WHICH TYPE FACE UNIT TO BE USED ALONG WITH A SPECIFIC COLOR.
7. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.
8. STRUCTURE UNDERDRAIN AND OUTLET FOR UNDERDRAIN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 7.51 OF FORM 816. THE WORK WILL BE PAID UNDER ITEM #0751821 - 6" STRUCTURE UNDERDRAIN AND ITEM #0751831 - 6" OUTLET FOR UNDERDRAIN.
9. FENCE POST INSTALLATION SHALL BE COORDINATED WITH EMBANKMENT WALL INSTALLATION TO ENSURE EMBANKMENT WALL SOIL REINFORCEMENT IS NOT DAMAGED.

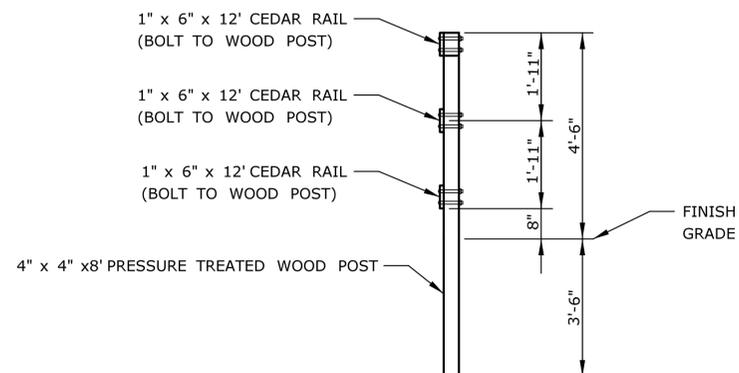


EMBANKMENT WALL - ELEVATION
 SCALE 1"=5'

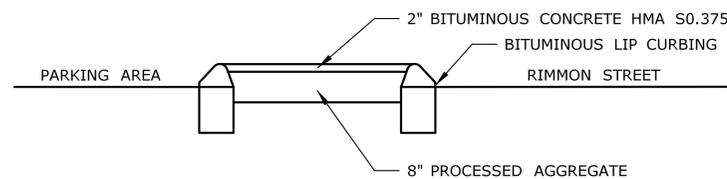
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DD	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169	
					CHECKED BY: DD						DRAWING NO. MDS-1
					THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			SCALE AS NOTED		DRAWING TITLE: EMBANKMENT WALL OLD DRIVE	SHEET NO. 03.06
					FILENAME: ...\\Plan\HW_MSH_MDS-1.dgn						



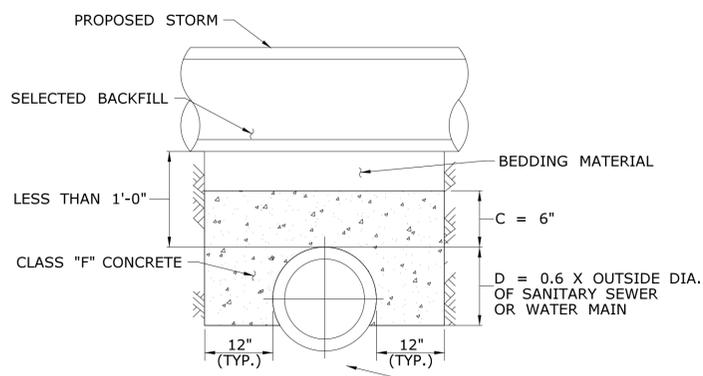
PLAN



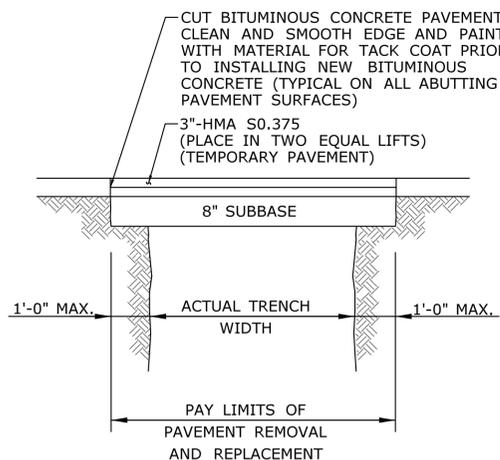
WOOD FENCE
NOT TO SCALE



BITUMINOUS CONCRETE BERM
NOT TO SCALE

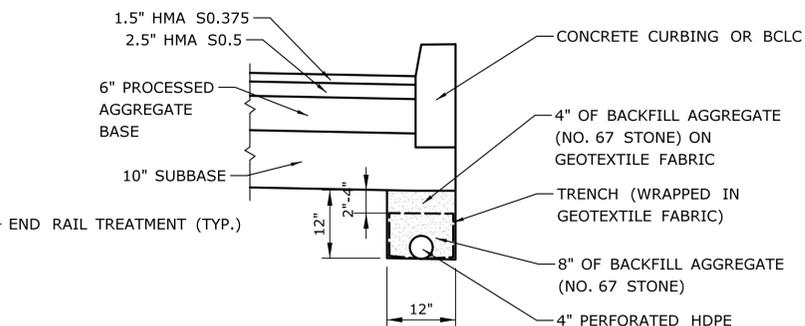


TYPICAL CONCRETE CRADLE DETAIL FOR STORM CROSSING
NOT TO SCALE

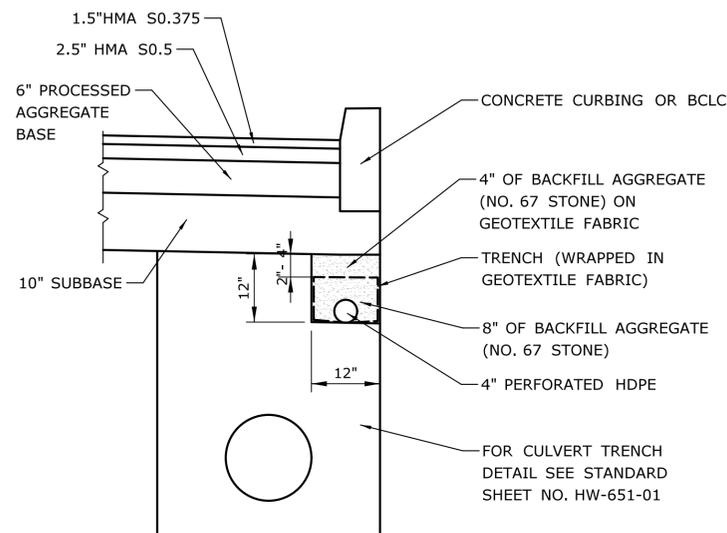


TRENCH SURFACE RESTORATION (TEMPORARY PAVEMENT)
NOT TO SCALE

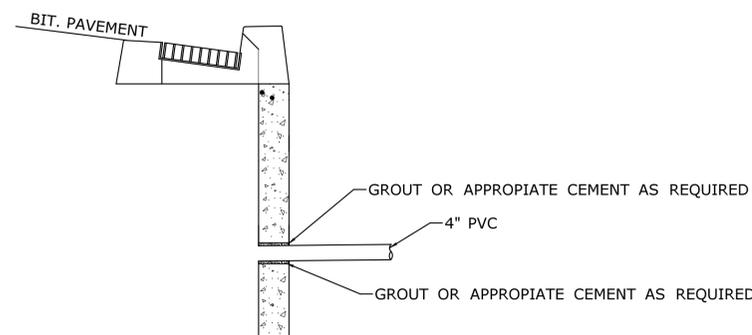
NOTE: THIS WORK INCLUDING SUBBASE FOR TRENCH SURFACE RESTORATION WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD UNDER ITEM #0406002 - "TEMPORARY PAVEMENT" CUT BITUMINOUS CONCRETE PAVEMENT WILL BE PAID FOR UNDER ITEM #0202529 - "CUT BITUMINOUS CONCRETE PAVEMENT"



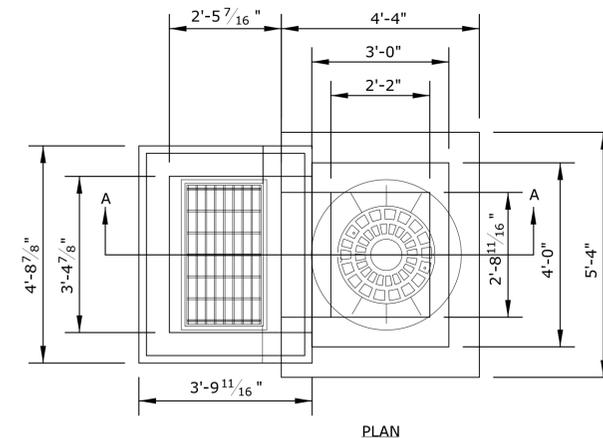
4" EDGEDRAIN UNDER CURBING
NOT TO SCALE



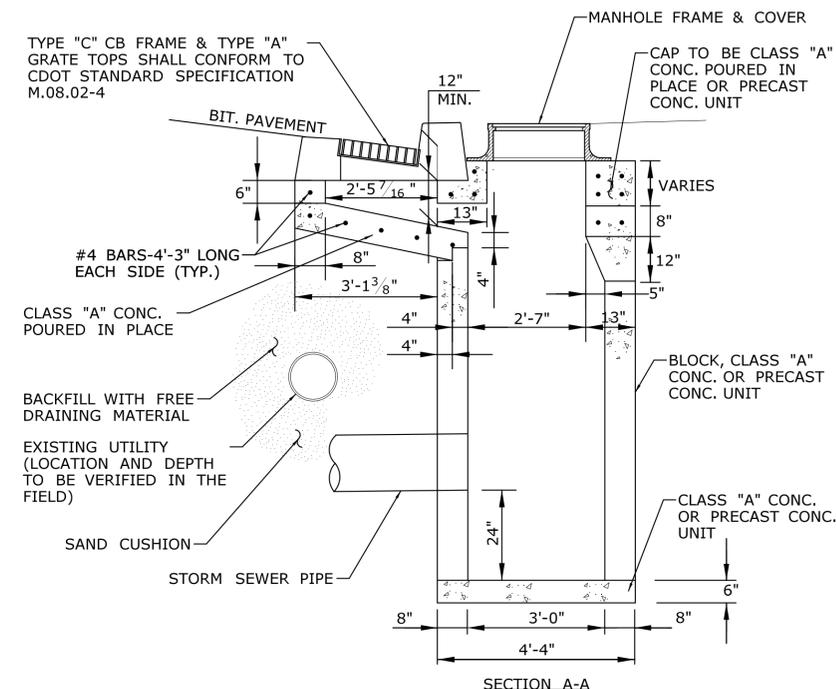
CULVERT AND EDGEDRAIN IN THE SAME TRENCH
NOT TO SCALE



4" EDGEDRAIN CONNECTION TO CATCH BASIN/MANHOLE
NOT TO SCALE



PLAN



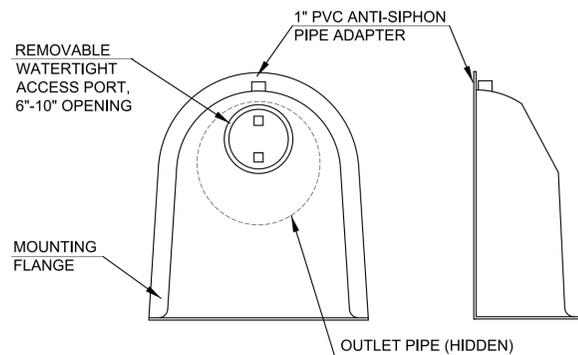
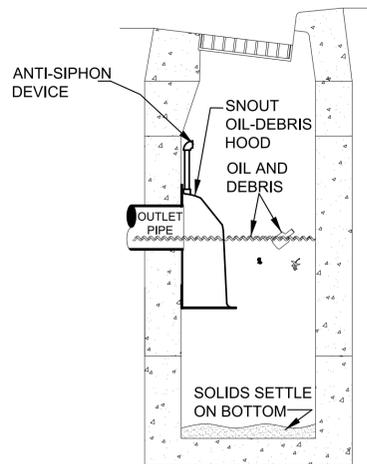
NOTES:

- REFER TO CONNDOT STANDARD SHEETS NO. HW-507 01, HW-507 07, HW-507 08 AND HW-507 10 FOR ADDITIONAL DETAILS AND DIMENSIONS.
- THE TOP OF FRAME SHOWN ON THE PLANS IS FOR THE CATCH BASIN, THE MANHOLE TOP OF FRAME SHALL BE SET TO MATCH THE PROPOSED CROSS SLOPE OF THE ROADWAY.

OFFSET TYPE "C" CATCH BASIN TYPE B-2

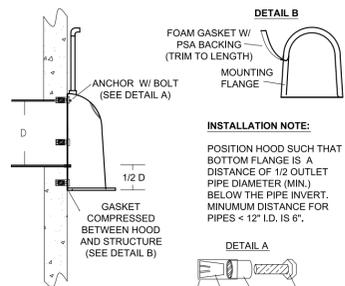
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DD	SIGNATURE/BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD	SCALE AS NOTED				DRAWING NO. MDS-2
										SHEET NO. 03.07
					THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451		MISCELLANEOUS DETAILS	
					File name: ...VPlan\HW_MSH_MDS-2.dgn					

- NOTES:
- ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
 - THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
 - THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
 - THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL RESISTANT GASKET AS SUPPLIED BY MANUFACTURER (SEE INSTALLATION DETAIL).

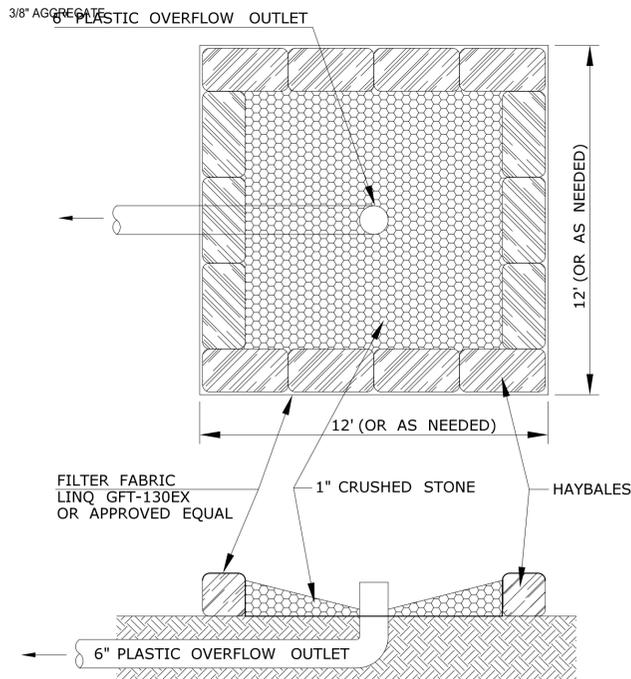


FRONT VIEW SIDE VIEW

CATCH BASIN HOOD
NOT TO SCALE

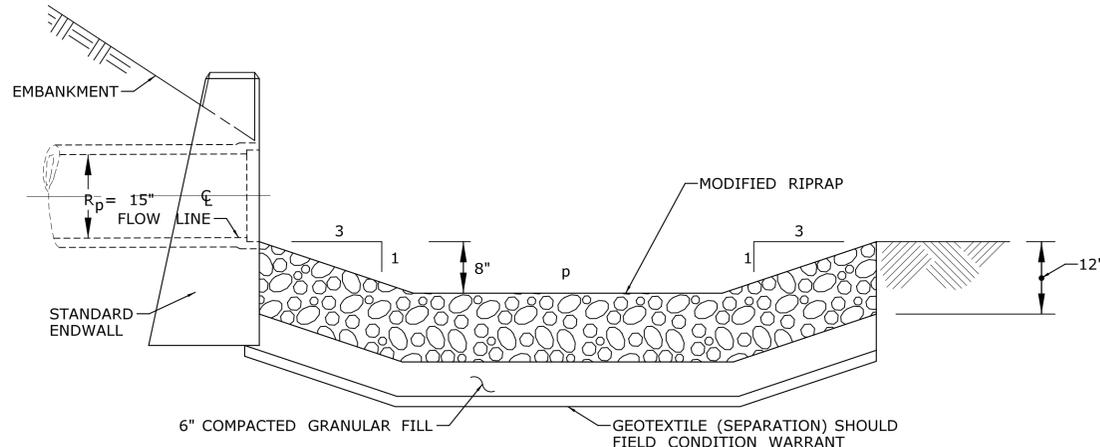
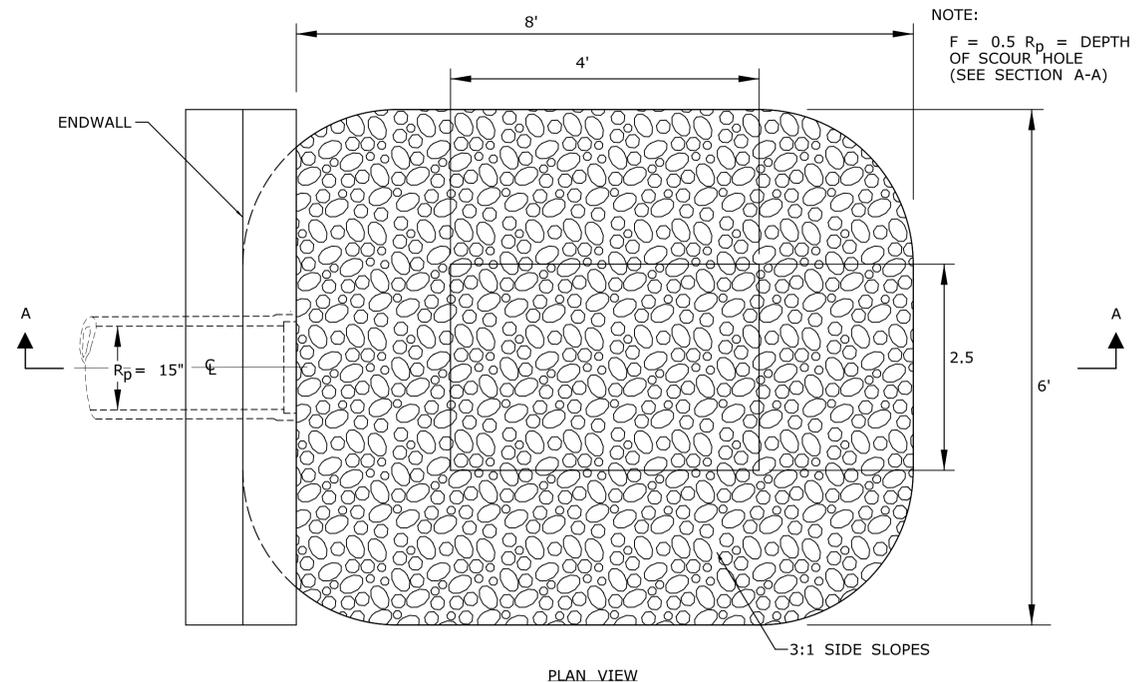


INSTALLATION NOTE:
POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINIMUM DISTANCE FOR PIPES < 12" I.D. IS 6".

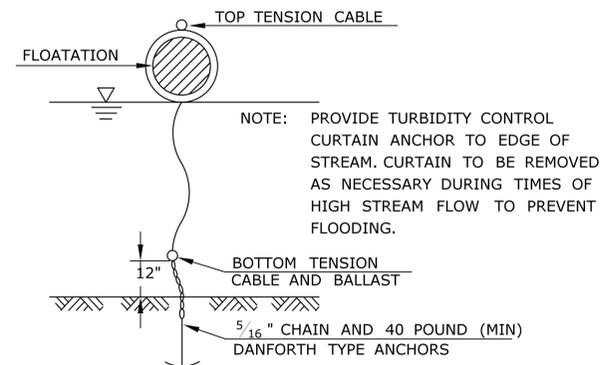


- NOTES:
- 12' x 12' ARE APPROXIMATE DIMENSIONS FOR THE DEWATERING BASIN, DEPENDING UPON DISCHARGE TO THE BASIN THE DIMENSIONS MAY BE ADJUSTED BY THE ENGINEER.
 - ALTERNATE DESIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
 - COST FOR TEMPORARY DEWATERING BASINS SHALL BE INCLUDED AND PAID UNDER ITEM #0204001A - COFFERDAM AND DEWATERING

TEMPORARY DEWATERING BASIN
NOT TO SCALE

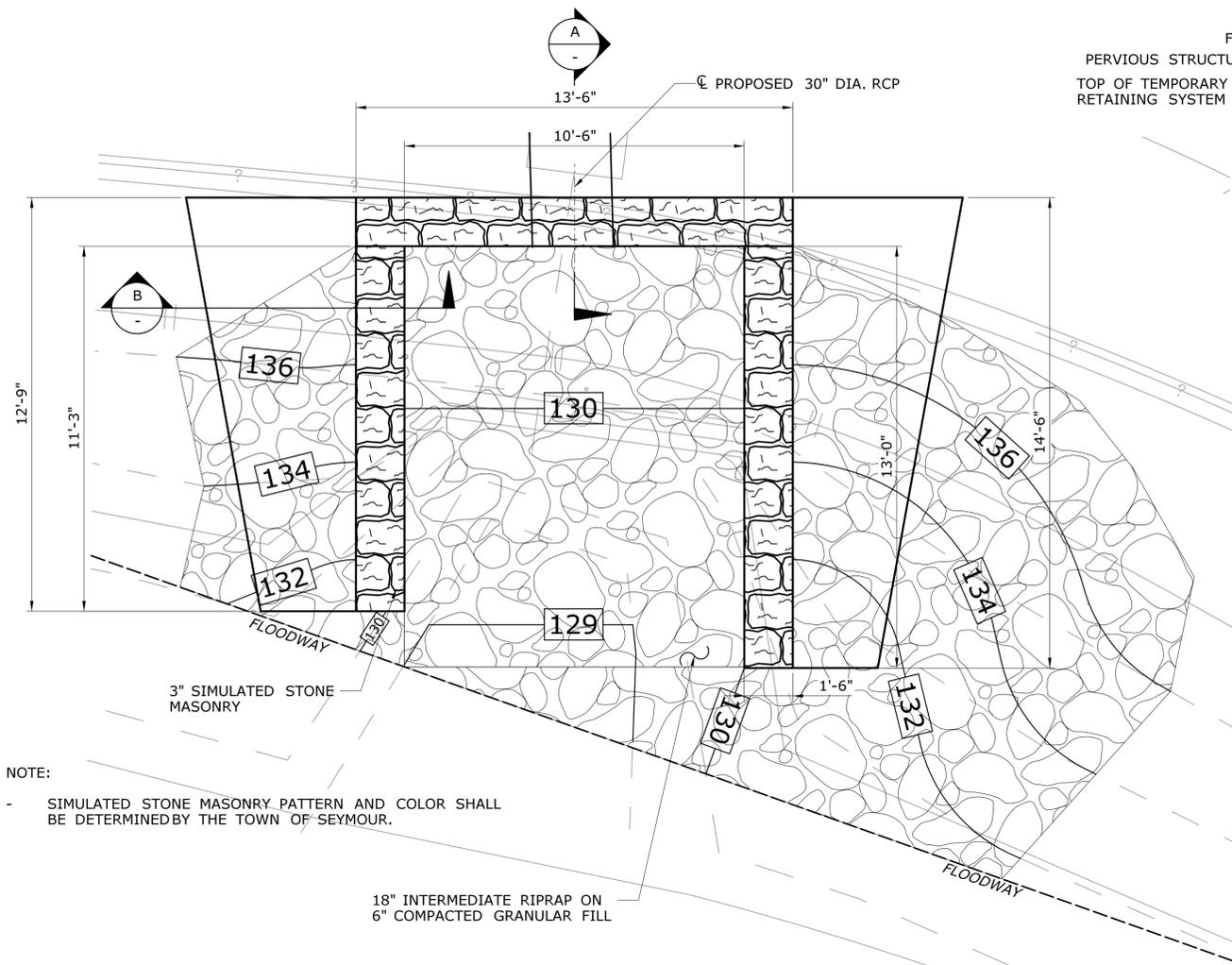


PREFORMED SCOUR HOLE
(STA. 35+11 RT)



TURBIDITY CONTROL CURTAIN
NOT TO SCALE

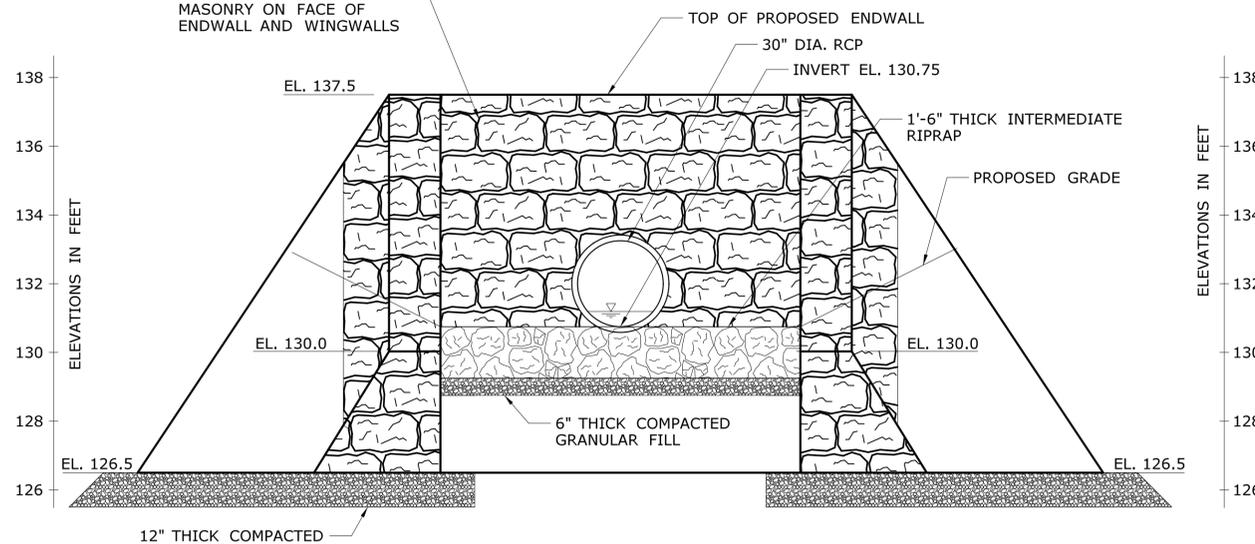
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DD	CHECKED BY: DD	SCALE AS NOTED	DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451 Filename: ...\\Plan\HW_MSH_MDS-3.dgn	SIGNATURE/BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.													
DRAWING TITLE: MISCELLANEOUS DETAILS													
SHEET NO. 03.08													



NOTE:
- SIMULATED STONE MASONRY PATTERN AND COLOR SHALL BE DETERMINED BY THE TOWN OF SEYMOUR.

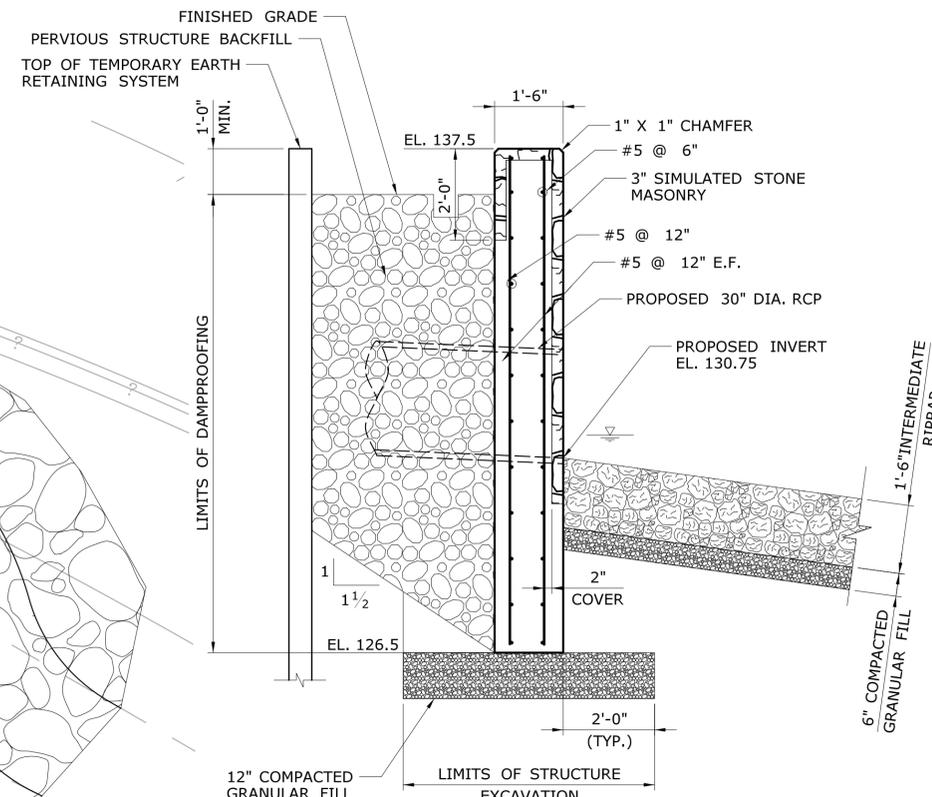
PLAN VIEW

SCALE: 3/8" = 1'-0"



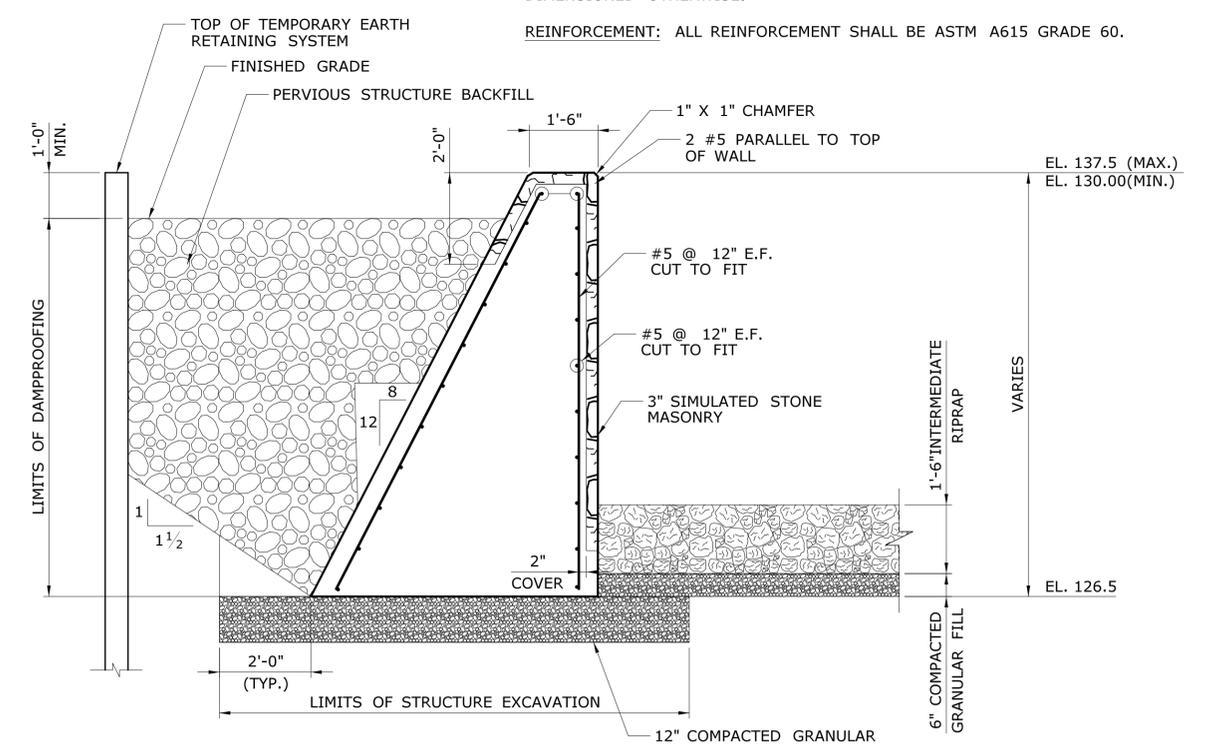
ELEVATION

SCALE: 3/8" = 1'-0"



SECTION A

SCALE: 1/2" = 1'-0"



SECTION B

SCALE: 1/2" = 1'-0"

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2016 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS - 7TH EDITION, 2012 WITH INTERIM SPECIFICATIONS INCLUDING AND UP TO 2016, AND AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:

CLASS "A" CONCRETE BASED ON $f_c = 3000$ PSI
REINFORCEMENT (ASTM A615 GRADE 60) $f_y = 60$ KSI

CONCRETE: THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, f'_c , OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF "SECTION 6.01 CONCRETE FOR STRUCTURES".

LIVE LOAD: AASHTO HL-93 LOADING

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

EXISTING DIMENSIONS: THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

CONCRETE NOTES

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE ARE NOT ALLOWED.

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR THE ENDWALL

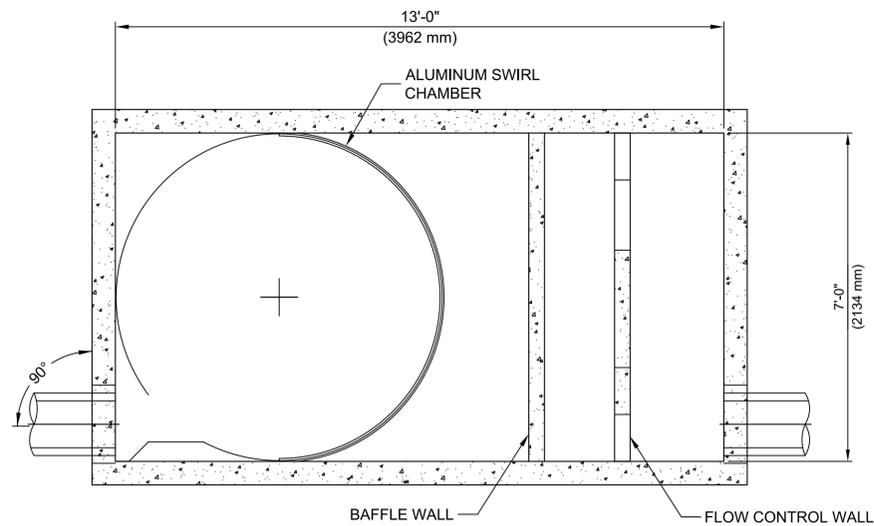
JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.

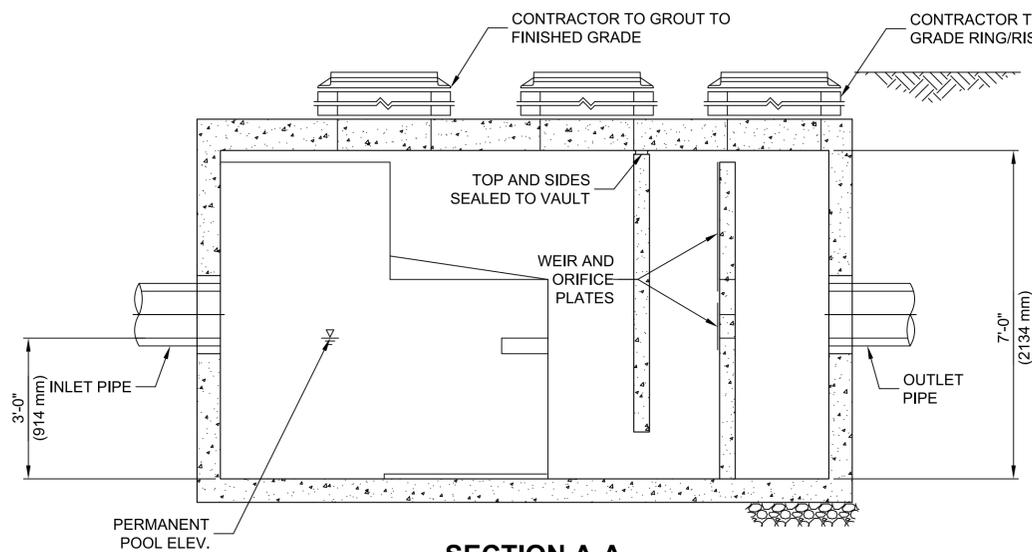
CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE THREE INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

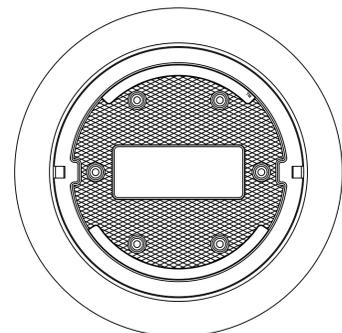
DESIGNER/DRAFTER: D.A.S.	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
CHECKED BY: R.H.S.	SCALE AS NOTED	FILENAME: ...\\Plan\HW_MSH_MDS-4.dgn		DRAWING TITLE: DRAINAGE ENDWALL FOR 30" RCP (STA 13+35 RT)	DRAWING NO. MDS-4
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016		SHEET NO.



SECTION B-B



SECTION A-A

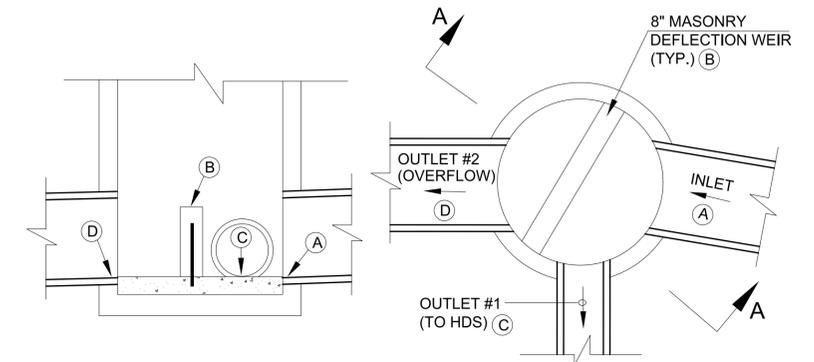


FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

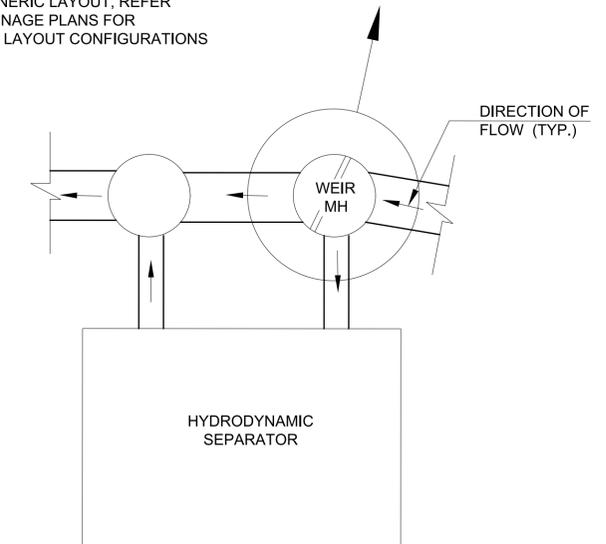
SITE NO.	LOCATION	MODEL NO.	WATER QUALITY FLOW RATE (CFS)	PEAK FLOW RATE (CFS)	RETURN RATE
1	STA. 13+55 RT	-	2.86	39.5	10 YEAR

DATA CHART FOR WEIR MANHOLES

STRUCTURE # & STA.	RIM EL.	DIA.	INLET (A)			WEIR (B)			OUTLET #1 (C)			OUTLET #2 (D)		
			INV.	SIZE	TYPE	HEIGHT	CREST	WIDTH	INV.	SIZE	TYPE	INV.	SIZE	TYPE
MH STA. STA. 13+64 RT (RIMMON STREET)	137.55	6.0'	133.40	30"	RCP	3.00	134.30	8"	131.30	18"	RCP	131.30	30"	RCP

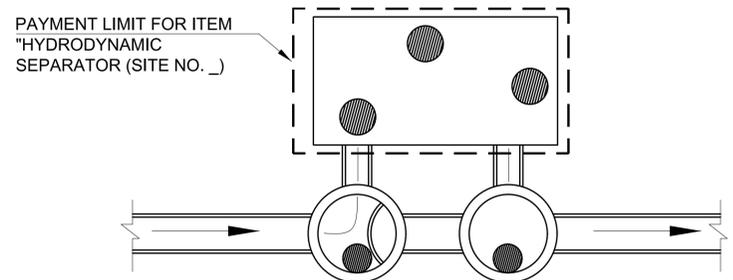


NOTE:
THE HYDRODYNAMIC SEPARATOR AND MANHOLES SHOWN HERE IS A GENERIC LAYOUT, REFER TO DRAINAGE PLANS FOR ACTUAL LAYOUT CONFIGURATIONS



NOTE:
1. NO SEPERATE MEASUREMENT WILL BE MADE FOR THE INSTALLATION OF THE WEIR IN MANHOLES, THE COST OF THE WEIR SHALL BE INCLUDED IN THE PRICE OF THE MANHOLE.

HYDRODYNAMIC SEPARATOR WEIR MANHOLES DETAIL



HYDRODYNAMIC SEPARATOR OFF-LINE CONFIGURATION (TYPICAL)

NOT TO SCALE

GENERAL NOTES

- CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- HYDRODYNAMIC SEPARATOR SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION.
- INLET PIPE(S) MUST BE PERPENDICULAR TO THE VAULT AND AT THE CORNER TO INTRODUCE THE FLOW TANGENTIALLY TO THE SWIRL CHAMBER.
- OUTLET PIPE(S) MUST BE DOWN STREAM OF THE FLOW CONTROL BAFFLE AND MAY BE LOCATED ON THE SIDE OR END OF THE VAULT. THE FLOW CONTROL WALL MAY BE TURNED TO ACCOMODATE OUTLET PIPE KNOCKOUTS ON THE SIDE OF THE VAULT.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE HYDRODYNAMIC SEPARATOR.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	MISCELLANEOUS DETAILS		

**BEGINNING OF STATE PROJECT NO. 124-169
BL STA. 10+50
N 705850.30
E 909093.93**

OLD DRIVE/RIMMON STREET
CURVE NO. 1
BASE LINE CURVE DATA
Δ = 13° - 45' - 49.65"
R = 450.00'
L = 96.09'
T = 48.28'

RIMMON STREET
CURVE NO. 2
BASE LINE CURVE DATA
Δ = 35° - 37' - 26.44"
R = 345.00'
L = 214.51'
T = 110.85'

LOCATE AND REPLACE DAMAGED 24" RC SANITARY SEWER PIPE WITH 24" POLYVINYL CHLORIDE PIPE. WORK TO BE PAID UNDER THE ITEM #1404109A - "SANITARY SEWER RECONSTRUCTION".

REMOVE BITUMINOUS CONCRETE PAVEMENT FILL, TOPSOIL AND SEED
BITUMINOUS CONCRETE BERM
BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL)
CUT BITUMINOUS CONCRETE PAVEMENT
MANHOLE (SANITARY SEWER)
TF = 138.39
INV. (8") = 132.14
INV. (24") = 130.21
46 L.F. - 24" POLYVINYL CHLORIDE PIPE (SANITARY SEWER)
REMOVE SANITARY MANHOLE (SANITARY SEWER)
REMOVE SANITARY SEWER PIPE
MANHOLE (SANITARY SEWER)
TF = 137.00
INV. = 130.24
LOW POINT
STA. 12+95.85

BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL)
CUT BITUMINOUS CONCRETE PAVEMENT

MATCH MARK - SEE DRAWING NO. PLN-2

REMOVE AND RELOCATE FIRE HYDRANT (BY OTHERS)
BEGIN CONCRETE CURBING
R=25'
SIDEWALK RAMP (TYPE 4)
BEGIN CONCRETE SIDEWALK
BEGIN BIT. CONCRETE LIP CURBING
82 L.F. - 24" POLYVINYL CHLORIDE PIPE (SANITARY SEWER)
MANHOLE (SANITARY SEWER)
TF = 138.65
INV. = 130.14
EXISTING TIMBER GUIDE RAIL TO REMAIN

RESET MANHOLE (SANITARY SEWER)

END BIT. CONCRETE LIP CURBING MATCH EXISTING

LIMIT OF CONSTRUCTION STA. 52+34
CUT BITUMINOUS CONCRETE PAVEMENT MATCH EXISTING

END CONCRETE CURBING MATCH EXISTING

RELOCATE UTILITY POLE (BY OTHERS)
END WOOD FENCE MATCH EXISTING
END CONCRETE SIDEWALK MATCH EXISTING
CONNECT MBR TYPE R-B 350 TO EXISTING MBR TYPE R-B

OLD DRIVE
CURVE NO. 1
BASE LINE CURVE DATA
Δ = 42° - 55' - 57.35"
R = 170.00'
L = 127.38'
T = 66.85'

STA. 13+69.30 RIMMON STREET =
STA. 49+95.95 OLD DRIVE
N 706098.26
E 909287.03

LEGEND

- SOIL BORING
- UTILITY TEST PIT

BEGIN BIT. CONCRETE LIP CURBING MATCH EXISTING

CUT BITUMINOUS CONCRETE PAVEMENT MATCH EXISTING

RELOCATE UTILITY POLE (BY OTHERS)
CONSTRUCTION BASELINE
BITUMINOUS CONCRETE DRIVEWAY
RESET MANHOLE (SANITARY SEWER)
EROSION CONTROL MATTING TYPE D
EMBANKMENT WALL (SITE NO. 1)
54' - 5' POLYVINYL CHLORIDE CHAIN LINK FENCE

RELOCATE FENCE
APPROXIMATE SLOPE LIMITS
RELOCATE UTILITY POLE (BY OTHERS)
CONSTRUCTION BASELINE
BITUMINOUS CONCRETE DRIVEWAY
RESET MANHOLE (SANITARY SEWER)
EROSION CONTROL MATTING TYPE D
EMBANKMENT WALL (SITE NO. 1)
54' - 5' POLYVINYL CHLORIDE CHAIN LINK FENCE

OLD DRIVE

LITTLE RIVER

LITTLE RIVER

GENERAL NOTES

1. RESET ALL SANITARY MANHOLES WITHIN PROJECT LIMITS.
2. ALL EXISTING SURVEY MONUMENTS IMPACTED BY THE PROJECT WILL BE REMOVED AND RESET AS DIRECTED BY THE ENGINEER.
3. ALL EXISTING UTILITY MANHOLES (ELECTRIC, TELEPHONE, ETC.) AND GAS GATES WITHIN THE PROJECT LIMITS ARE TO BE RESET BY OTHERS.
4. ALL EXISTING STORM DRAINAGE PIPES AND STORM DRAINAGE STRUCTURES TO BE REMOVED UNLESS OTHERWISE NOTED.
5. IN CASES WHERE NEW DRAINAGE STRUCTURES ARE TO REPLACE EXISTING STRUCTURES AND EXISTING PIPES BETWEEN STRUCTURES ARE TO REMAIN, THE EXISTING PIPES ARE TO BE REPLACED FROM THE NEW STRUCTURE TO THE LENGTH SPECIFIED AND THE EXISTING INVERTS OF THOSE PIPES SHALL BE MATCHED, UNLESS OTHERWISE NOTED.
6. ALL CATCH BASINS TO BE RESET SHALL HAVE NEW TOPS, FRAMES AND GRATES.
7. WHERE THERE IS LESS THAN 1' VERTICAL CLEARANCE BETWEEN EXISTING UTILITIES (INCLUDING SANITARY SEWER) AND PROPOSED STORM SEWER PIPES, A CONCRETE CRADLE SHALL BE INSTALLED.
8. ALL EXISTING MAILBOXES SHALL BE MAINTAINED IN SERVICE THROUGHOUT THE CONSTRUCTION OF THE PROJECT TO ENSURE THAT MAIL DELIVERY FOR RESIDENTS IS NOT INTERRUPTED. THE COST FOR THIS WORK WILL NOT BE MEASURED FOR PAYMENT. THE LUMP SUM COST SHALL BE INCLUDED IN THE PRICE FOR ITEM "CLEARING & GRUBBING"
9. THE RELOCATION OF UTILITY POLES, FIRE HYDRANTS, GAS AND WATER MAINS SHALL BE PERFORMED BY OTHERS AND COORDINATED BY THE CONTRACTOR FOR THE PROPOSED WORK; ALL COSTS OF WHICH SHALL BE INCLUDED IN THE GENERAL COST OF THE WORK.

SCHEDULE OF RIGHTS AND EASEMENTS

- (A) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (B) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED.
- (E) DRAINAGE RIGHT OF WAY REQUIRED
- (F) EASEMENT TO DRAIN REQUIRED.
- (G) RIGHT TO GRADE REQUIRED.
- (H) RIGHT TO CONSTRUCT DRIVEWAY(S) REQUIRED.
- (J) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (L) CONSTRUCTION EASEMENT FOR CONSTRUCTION OF A CONCRETE ENDWALL REQUIRED.
- (N) RIGHT TO CONSTRUCT CONCRETE WALK REQUIRED.
- (O) RIGHT TO INSTALL (RESET, REMOVE, RELOCATE) STONE WALL OR FENCE REQUIRED.
- (R) DEFINED EASEMENT FOR HIGHWAY PURPOSES REQUIRED.
- (AA) RIGHT TO CONSTRUCT CONCRETE WALK AND STEPS REQUIRED.
- (BB) RIGHT TO REMOVE AND REBUILD EXISTING STONE WALL REQUIRED.
- (CC) RIGHT TO INSTALL DRIVEWAY DRAIN AND PIPE REQUIRED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016

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DESIGNER/DRAFTER:
RL/ETK
CHECKED BY:
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SCALE 1"=20'

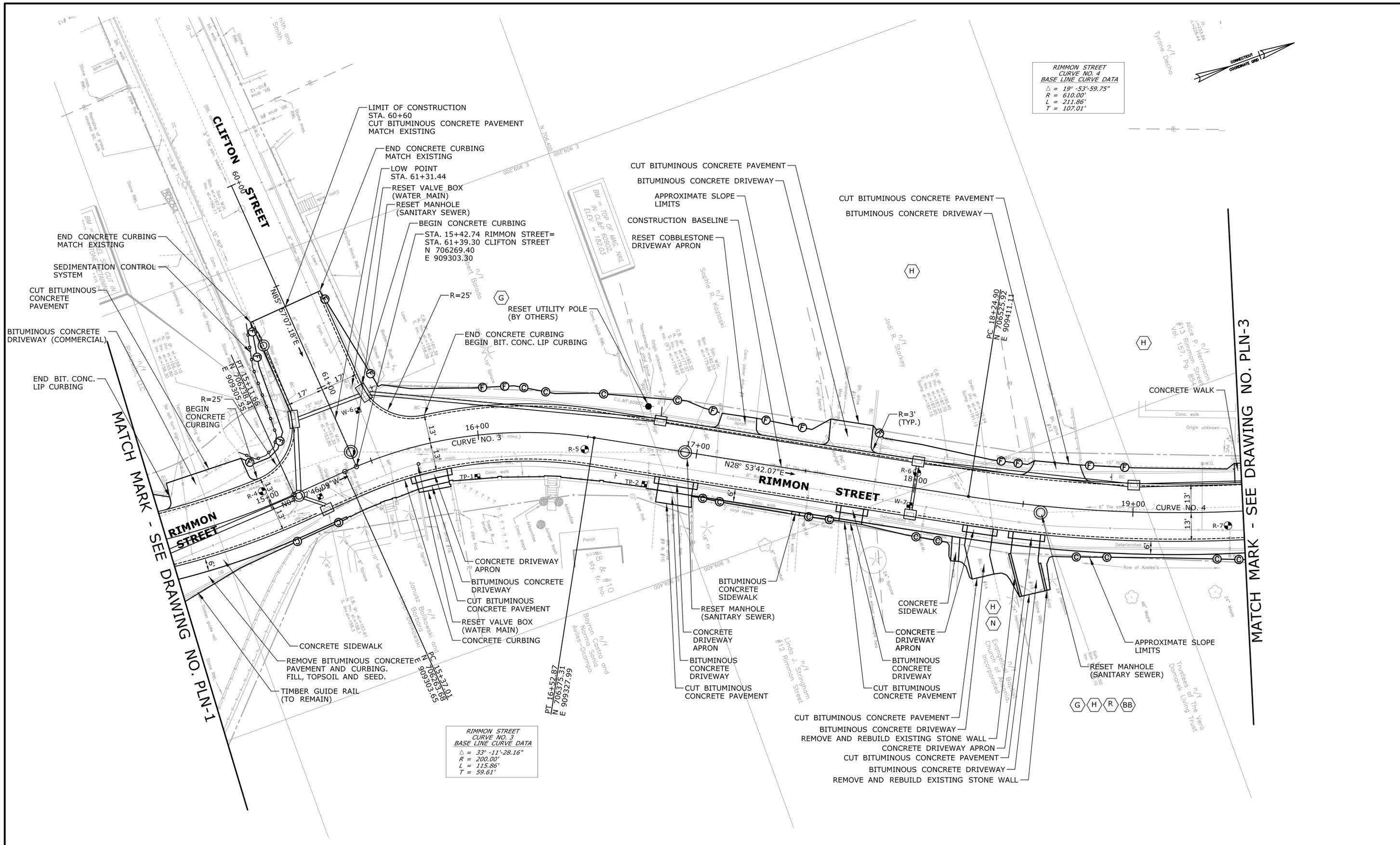
DESIGNED BY:
DE CARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451
Filename: ...\\Plan\HW_MSH_PLN-1.dgn

SIGNATURE/BLOCK:

PROJECT TITLE:
RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS

TOWN:
SEYMOUR
DRAWING TITLE:
ROADWAY PLAN
OLD DRIVE/RIMMON STREET STA. 10+50 TO STA. 14+50
OLD DRIVE STA. 50+00 TO STA. 52+32

PROJECT NO.
124-169
DRAWING NO.
PLN-1
SHEET NO.
03.29



RIMMON STREET
 CURVE NO. 4
 BASE LINE CURVE DATA
 $\Delta = 19^{\circ} - 53' - 59.75''$
 $R = 610.00'$
 $L = 211.86'$
 $T = 107.01'$

RIMMON STREET
 CURVE NO. 3
 BASE LINE CURVE DATA
 $\Delta = 33^{\circ} - 11' - 28.16''$
 $R = 200.00'$
 $L = 115.86'$
 $T = 59.61'$

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/5/2016

DESIGNER/DRAFTER:
RL/ETK

CHECKED BY:
DD

SCALE IN FEET
 0 20 40
 SCALE 1"=20'

DESIGNED BY:



DE CARLO & DOLL, INC.
 89 COLONY STREET
 MERIDEN, CONNECTICUT 06451

Filename: ...\\Plan\HW_MSH_PLN-2.dgn

SIGNATURE/
 BLOCK:

PROJECT TITLE:
**RIMMON STREET
 RECONSTRUCTION AND
 DRAINAGE IMPROVEMENTS**

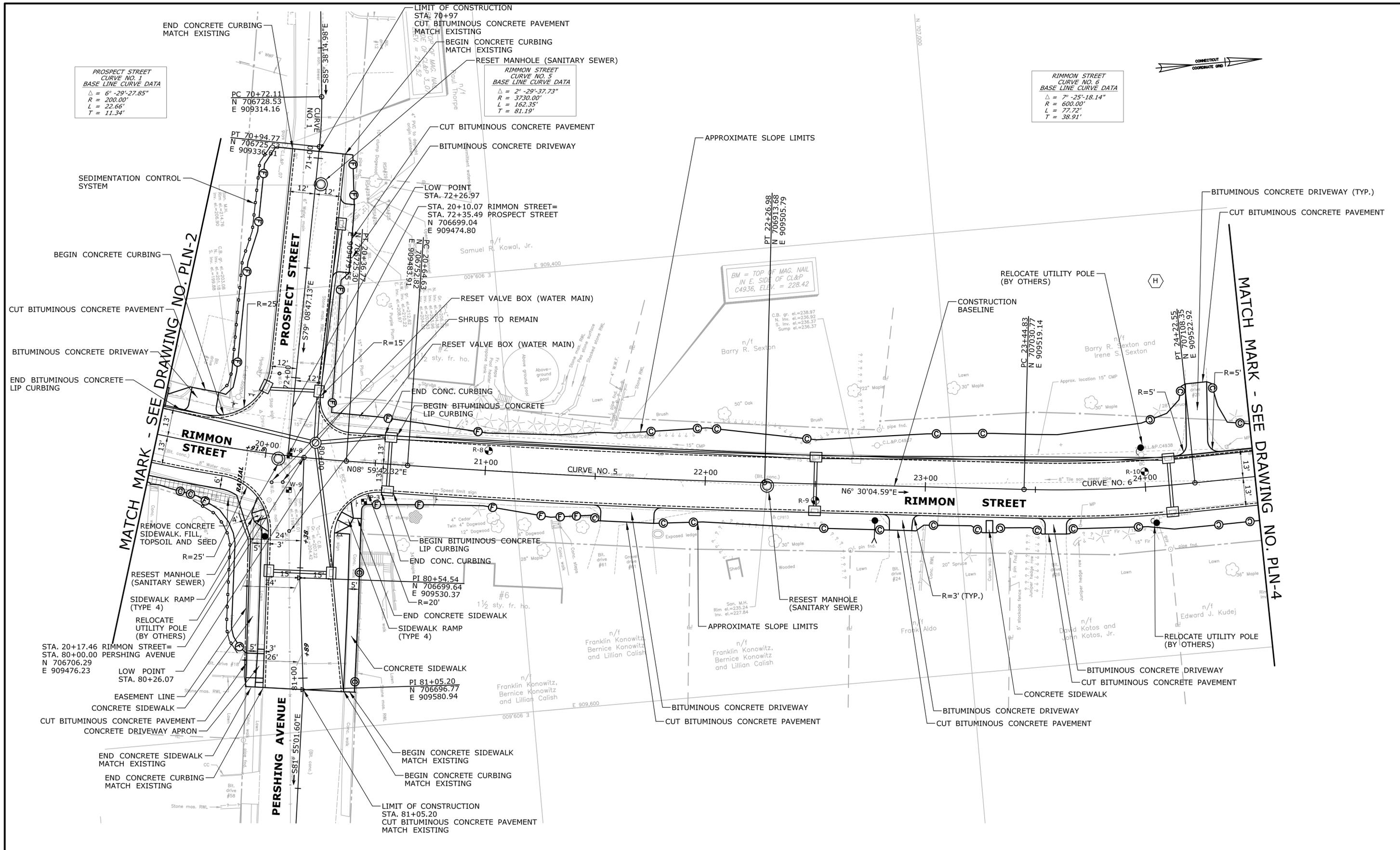
TOWN:
SEYMOUR

DRAWING TITLE:
ROADWAY PLAN
 RIMMON STREET STA. 14+50 TO STA. 19+50
 CLIFTON STREET STA. 60+56 TO STA. 61+39.30

PROJECT NO.
124-169

DRAWING NO.
PLN-2

SHEET NO.
03.30



PROSPECT STREET
CURVE NO. 1
BASE LINE CURVE DATA
Δ = 6°-29'-27.85"
R = 200.00'
L = 22.66'
T = 11.34'

RIMMON STREET
CURVE NO. 5
BASE LINE CURVE DATA
Δ = 2°-29'-37.73"
R = 3730.00'
L = 162.35'
T = 81.19'

RIMMON STREET
CURVE NO. 6
BASE LINE CURVE DATA
Δ = 7°-25'-18.14"
R = 600.00'
L = 77.72'
T = 38.91'



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/5/2016

DESIGNER/DRAFTER:
RL/ETK

CHECKED BY:
DD

SCALE IN FEET
0 20 40
SCALE 1"=20'

DESIGNED BY:

DE CARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451

Filename: ...Plan/HW_MSH_PLN-3.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
**RIMMON STREET
RECONSTRUCTION AND
DRAINAGE IMPROVEMENTS**

TOWN:
SEYMOUR

DRAWING TITLE:
ROADWAY PLAN
RIMMON STREET STA. 19+50 TO STA. 24+50
PROSPECT STREET STA. 70+97 TO STA. 72+35.49
PERSHING AVENUE STA. 80+00 TO STA. 81+05

PROJECT NO.
124-169

DRAWING NO.
PLN-3

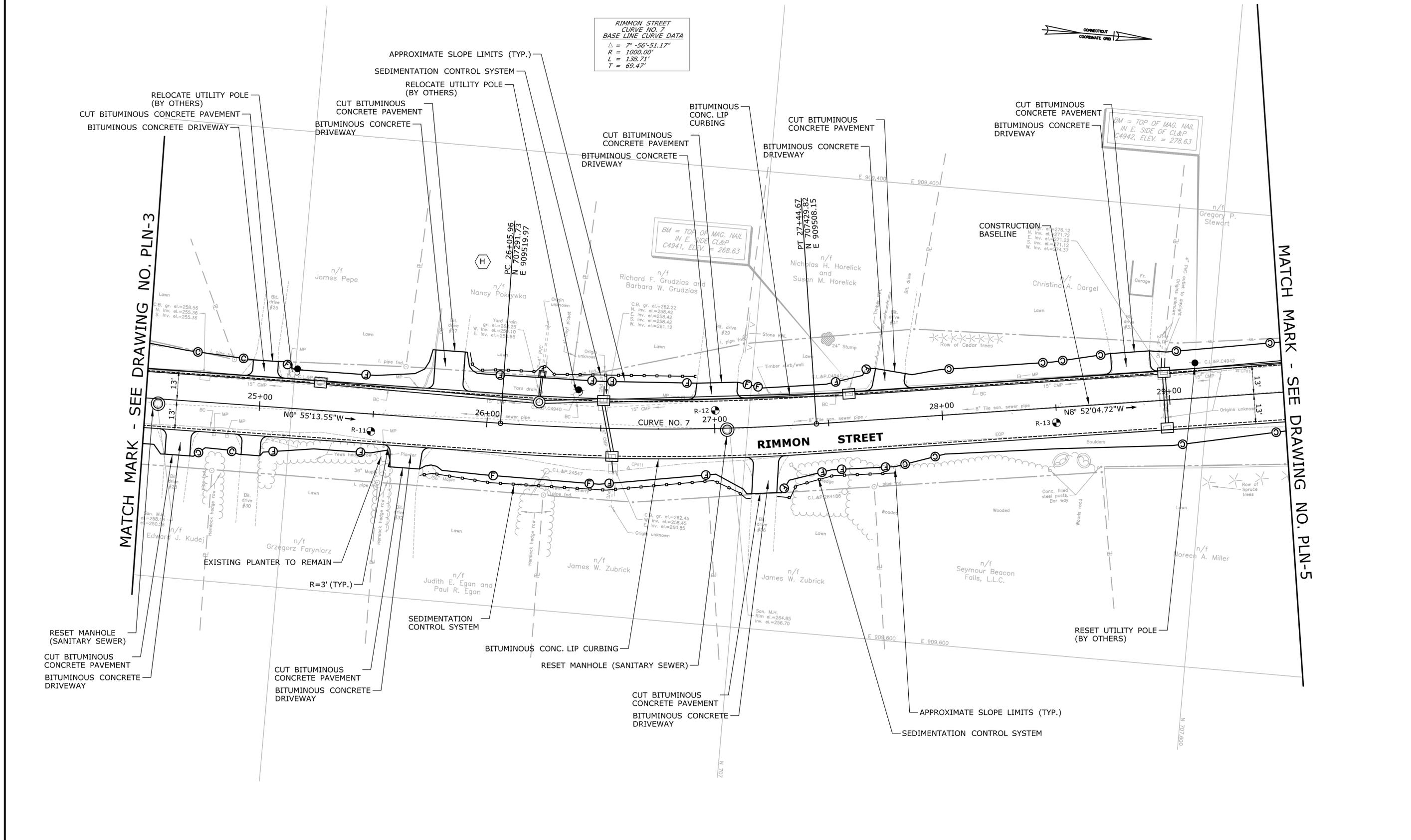
SHEET NO.
03.31

**RIMMON STREET
CURVE NO. 7
BASE LINE CURVE DATA**
 $\Delta = 77^\circ - 56' - 51.17''$
 $R = 1000.00'$
 $L = 138.71'$
 $T = 69.47'$



MATCH MARK - SEE DRAWING NO. PLN-3

MATCH MARK - SEE DRAWING NO. PLN-5



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/5/2016

DESIGNER/DRAFTER:
RL/ETK

CHECKED BY:
DD

SCALE IN FEET
0 20 40
SCALE 1"=20'

DESIGNED BY:

DE CARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451

Filename: ... \Plan\HW_MSH_Plan-4.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
**RIMMON STREET
RECONSTRUCTION AND
DRAINAGE IMPROVEMENTS**

TOWN:
SEYMOUR

DRAWING TITLE:
ROADWAY PLAN
RIMMON STREET STA. 24+50 TO STA. 29+50

PROJECT NO.
124-169

DRAWING NO.
PLN-4

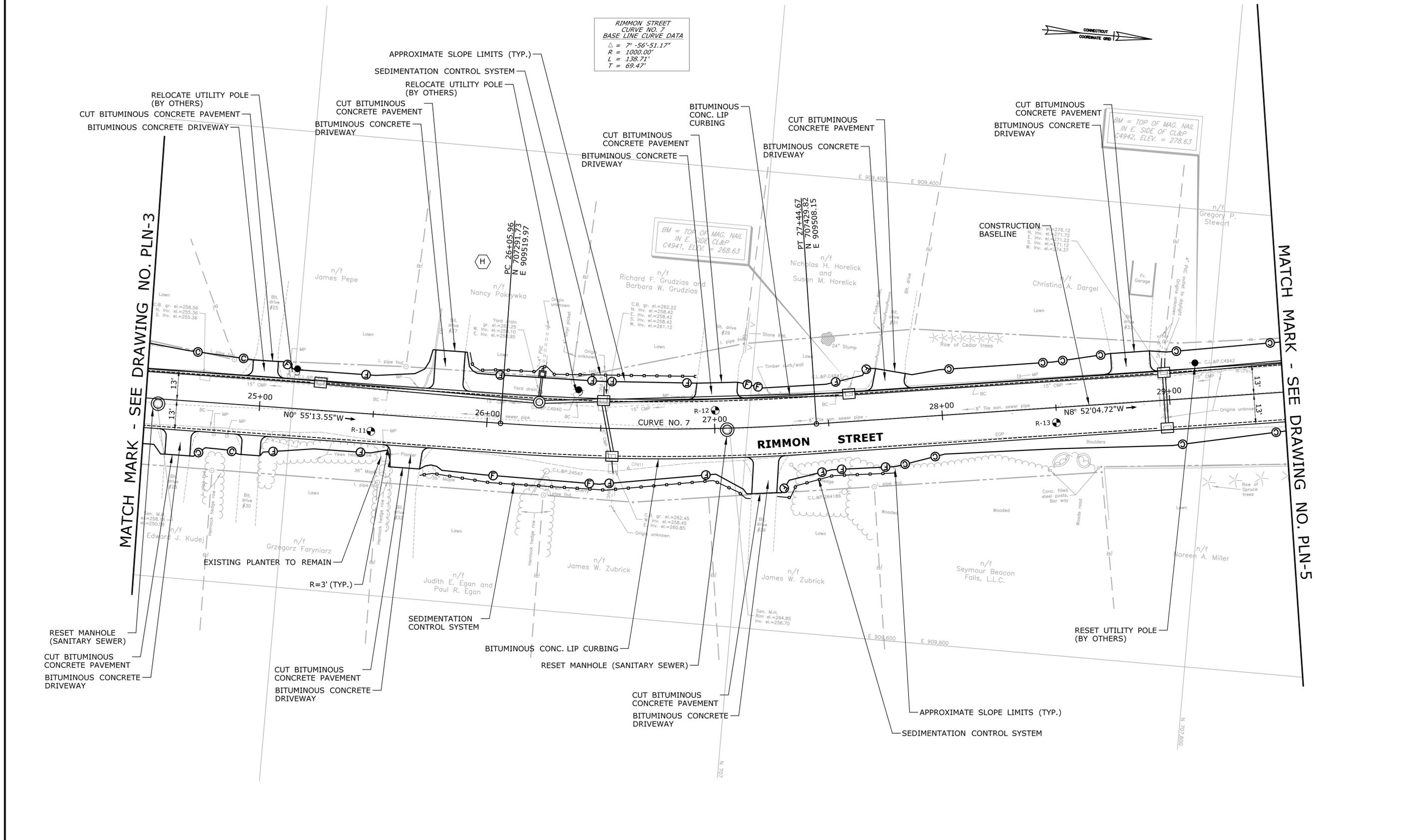
SHEET NO.
03.32

**RIMMON STREET
CURVE NO. 7
BASE LINE CURVE DATA**
 $\Delta = 77^\circ - 56' - 51.17''$
 $R = 1000.00'$
 $L = 138.71'$
 $T = 69.47'$



MATCH MARK - SEE DRAWING NO. PLN-3

MATCH MARK - SEE DRAWING NO. PLN-5



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/5/2016

DESIGNER/DRAFTER:
RL/ETK

CHECKED BY:
DD

SCALE IN FEET
0 20 40
SCALE 1"=20'

DESIGNED BY:

DE CARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451

Filename: ...\\Plan\HW_MSH_PLN-4.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
**RIMMON STREET
RECONSTRUCTION AND
DRAINAGE IMPROVEMENTS**

TOWN:
SEYMOUR

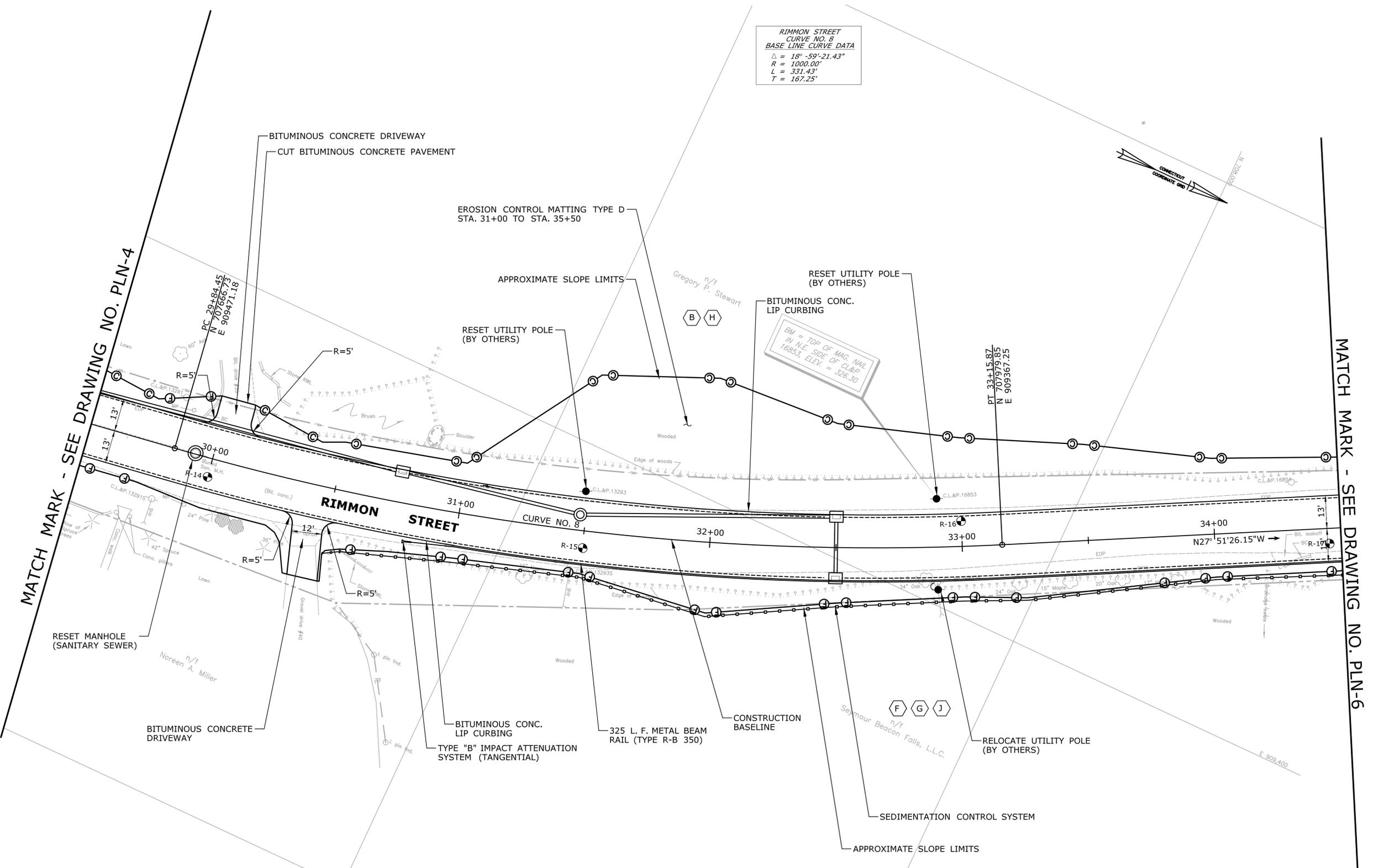
DRAWING TITLE:
ROADWAY PLAN
RIMMON STREET STA. 24+50 TO STA. 29+50

PROJECT NO.
124-169

DRAWING NO.
PLN-4

SHEET NO.
03.32

RIMMON STREET
 CURVE NO. 8
 BASE LINE CURVE DATA
 $\Delta = 18^\circ - 59' - 21.43''$
 $R = 1000.00'$
 $L = 331.43'$
 $T = 167.25'$



MATCH MARK - SEE DRAWING NO. PLN-4

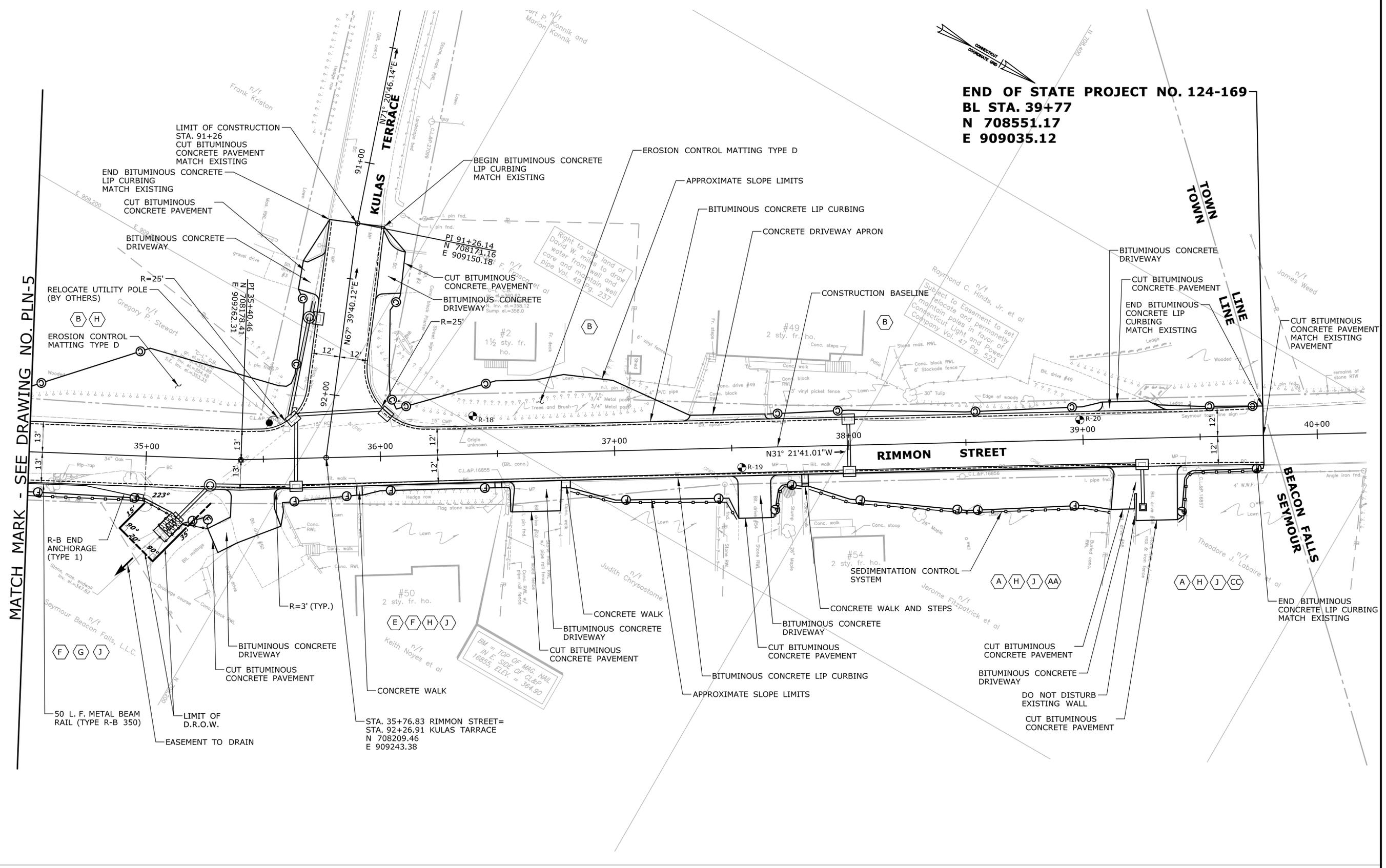
MATCH MARK - SEE DRAWING NO. PLN-6

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD				DRAWING NO. PLN-5	DRAWING TITLE: ROADWAY PLAN RIMMON STREET STA. 29+50 TO STA. 34+50
					SCALE IN FEET 0 20 40 SCALE 1"=20'	Filename: ...\\Plan\HW_MSH_PLN-5.dgn				

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

END OF STATE PROJECT NO. 124-169
BL STA. 39+77
N 708551.17
E 909035.12

MATCH MARK - SEE DRAWING NO. PLN-5



REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD					
					SCALE IN FEET 0 20 40 SCALE 1"=20'	FILENAME: ...\\Plan\HW_MSH_PLN-6.dgn			DRAWING TITLE: ROADWAY PLAN RIMMON STREET STA. 34+50 TO STA. 39+77 KULAS TERRACE STA. 91+26 TO STA. 92+26.91	SHEET NO. 03.34

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.



BEGINNING OF STATE PROJECT NO. 124-169
BL STA. 10+50
N 705850.30
E 909093.93

OLD DRIVE/RIMMON STREET CURVE NO. 1
BASE LINE CURVE DATA
 $\Delta = 13^\circ - 45' - 49.65''$
 $R = 450.00'$
 $L = 96.09'$
 $T = 48.28'$

RIMMON STREET CURVE NO. 2
BASE LINE CURVE DATA
 $\Delta = 35^\circ - 37' - 26.44''$
 $R = 345.00'$
 $L = 214.51'$
 $T = 110.85'$

TYPE "C-L" CATCH BASIN
DOUBLE GRATE - TYPE II (SUMP 4')
HEAVY DUTY TOP
STA. 12+98, 13' LT
TF = 136.47
INV. (E) = 133.47

TYPE "C-L" CATCH BASIN
WITH HEAVY DUTY TOP
STA. 11+71, 12.2' LT
TF = 136.78
INV. = 133.20

21 L.F. - 15" RCP CLASS V

LOW POINT
STA. 12+97.84

20 L.F. - 4" EDGEDRAIN

118 L.F. - 4" EDGEDRAIN

112 L.F. - 4" EDGEDRAIN

REMOVE CATCH BASIN
PLUG PIPES

23 L.F. - 15" RCP CLASS V

LOW POINT
STA. 11+71.18

TYPE "C-L" CATCH BASIN
WITH HEAVY DUTY TOP

REMOVE CATCH BASIN
PLUG PIPES

10 L.F. - 30" RCP

REMOVE CATCH BASIN
PLUG PIPES

13 L.F. - 30" RCP

STA. 13+69.30 RIMMON STREET =
STA. 49+95.95 OLD DRIVE
N 706098.26
E 909287.03

23 L.F. - 24" RCP
144 L.F. - 4" EDGEDRAIN

27 L.F. - 30" R.C.
PIPE CLASS V

MATCH MARK - SEE DRAWING NO. DRN-2

WATER (AQUARION WATER COMPANY OF CONNECTICUT)						
Test Pit #	Station	Offset	Nothing	Easting	Ground Elevation (FT)	Top of Pipe Elevation
W-1	STA. 11+43.57	9.46' RT	705908.36	909165.59	137.24	134.07
W-2	STA. 12+88.75	7.69' RT	706030.55	909263.61	136.84	133.17
W-3	STA. 59+52.32	8.95' RT	706993.68	906343.93	137.73	134.40
W-4	STA. 14+18.36	16.89' RT	706142.31	909316.52	141.94	138.19
W-5	STA. 15+22.06	5.77' RT	706249.22	909310.52	158.14	154.14
W-6	STA. 61+16.38	11.01' LT	706278.73	909278.76	162.04	158.21
W-7	STA. 17+99.06	8.04' RT	706499.41	909405.66	190.06	186.48
W-8	STA. 72+35.35	0.75' LT	706999.80	909474.81	206.48	202.48
W-9	STA. 88+14.91	6.38' RT	706998.14	909490.25	208.40	202.40

GAS (YANKEE GAS SERVICES COMPANY dba EVERSOURCE ENERGY)						
Test Pit #	Station	Offset	Nothing	Easting	Ground Elevation (FT)	Top of Pipe Elevation
Eversource elected to relocate Gas Main - No Test pits Performed						

TELECOMMUNICATIONS						
Test Pit #	Station	Offset	Nothing	Easting	Ground Elevation (FT)	Top of Duct Elevation
No underground services with in Project Limits						

ELECTRICAL						
Test Pit #	Station	Offset	Nothing	Easting	Ground Elevation (FT)	Top of Duct Elevation
No underground services with in Project Limits						

BANK STREET (STATE ROUTE 67)

OLD DRIVE

LITTLE RIVER

OLD DRIVE

GENERAL NOTES

1. RESET ALL SANITARY MANHOLES WITHIN PROJECT LIMITS.
2. ALL EXISTING SURVEY MONUMENTS IMPACTED BY THE PROJECT WILL BE REMOVED AND RESET AS DIRECTED BY THE ENGINEER.
3. ALL EXISTING UTILITY MANHOLES (ELECTRIC, TELEPHONE, ETC.) AND GAS GATES WITHIN THE PROJECT LIMITS ARE TO BE RESET BY OTHERS.
4. ALL EXISTING STORM DRAINAGE PIPES AND STORM DRAINAGE STRUCTURES TO BE REMOVED UNLESS OTHERWISE NOTED.
5. IN CASES WHERE NEW DRAINAGE STRUCTURES ARE TO REPLACE EXISTING STRUCTURES AND EXISTING PIPES BETWEEN STRUCTURES ARE TO REMAIN, THE EXISTING PIPES ARE TO BE REPLACED FROM THE NEW STRUCTURE TO THE LENGTH SPECIFIED AND THE EXISTING INVERTS OF THOSE PIPES SHALL BE MATCHED, UNLESS OTHERWISE NOTED.
6. ALL CATCH BASINS TO BE RESET SHALL HAVE NEW TOPS, FRAMES AND GRATES.
7. WHERE THERE IS LESS THAN 1' VERTICAL CLEARANCE BETWEEN EXISTING UTILITIES (INCLUDING SANITARY SEWER) AND PROPOSED STORM SEWER PIPES, A CONCRETE CRADLE SHALL BE INSTALLED.
8. ALL EXISTING MAILBOXES SHALL BE MAINTAINED IN SERVICE THROUGHOUT THE CONSTRUCTION OF THE PROJECT TO ENSURE THAT MAIL DELIVERY FOR RESIDENTS IS NOT INTERRUPTED. THE COST FOR THIS WORK WILL NOT BE MEASURED FOR PAYMENT. THE LUMP SUM COST SHALL BE INCLUDED IN THE PRICE FOR ITEM "CLEARING & GRUBBING"
9. COMPLY WITH SEYMOUR INLAND WETLANDS AND STORMWATER MANAGEMENT PERMIT CONDITIONS. COMPLY WITH CTDOT FLOOD MANAGEMENT CERTIFICATE GENERAL PERMIT CONDITIONS.
10. THE RELOCATION OF UTILITY POLES, FIRE HYDRANTS, GAS AND WATER MAINS SHALL BE PERFORMED BY OTHERS AND COORDINATED BY THE CONTRACTOR FOR THE PROPOSED WORK; ALL COSTS OF WHICH SHALL BE INCLUDED IN THE GENERAL COST OF THE WORK.

LEGEND
 SOIL BORING
 UTILITY TEST PIT

OLD DRIVE CURVE NO. 1
BASE LINE CURVE DATA
 $\Delta = 42^\circ - 55' - 57.35''$
 $R = 170.00'$
 $L = 127.38'$
 $T = 66.85'$

TYPE "C" CATCH BASIN
DOUBLE GRATE - TYPE II (4' SUMP)
STA. 12+98, 13' RT
TF = 136.47
INV. (W) = 132.50
INV. (N) = 131.40
INV. (S) = 131.60

TYPE "C" CATCH BASIN
STA. 11+71, 13' RT
TF = 136.74
INV. = 133.00

MANHOLE - 6' DIAMETER
STA. 13+36, 10.6' RT
T.F. = 136.91
INV. (N,S) = 131.00
INV. (E) = 130.90

MANHOLE - 6' DIAMETER
WITH WEIR
STA. 13+64, 10.1' RT
TF = 137.55
DIVERSION WEIR = 134.30
INV. (N) = 133.40
INV. (E,S) = 131.30

MANHOLE - 6' DIAMETER
STA. 13+53, 10' RT
TF = 137.18
INV. (N,S,E) = 131.15

TYPE "C" CATCH BASIN
STA. 50+75, 10' LT
TF = 137.90
INV. (E,S) = 134.40
INV. (W) = 134.30

17 L.F. - 15" R.C.
PIPE CLASS V

TYPE "C" CATCH BASIN
STA. 50+75, 10' RT
TF = 137.90
INV. = 134.50

90 L.F. - 4" EDGEDRAIN

95 L.F. - 15" R.C.
PIPE CLASS V

OFFSET TYPE "C" CATCH BASIN
TYPE B-2
STA. 51+67, 10' LT
TF = 140.25
INV. = 135.80

REMOVE CATCH BASIN
AND CURBING

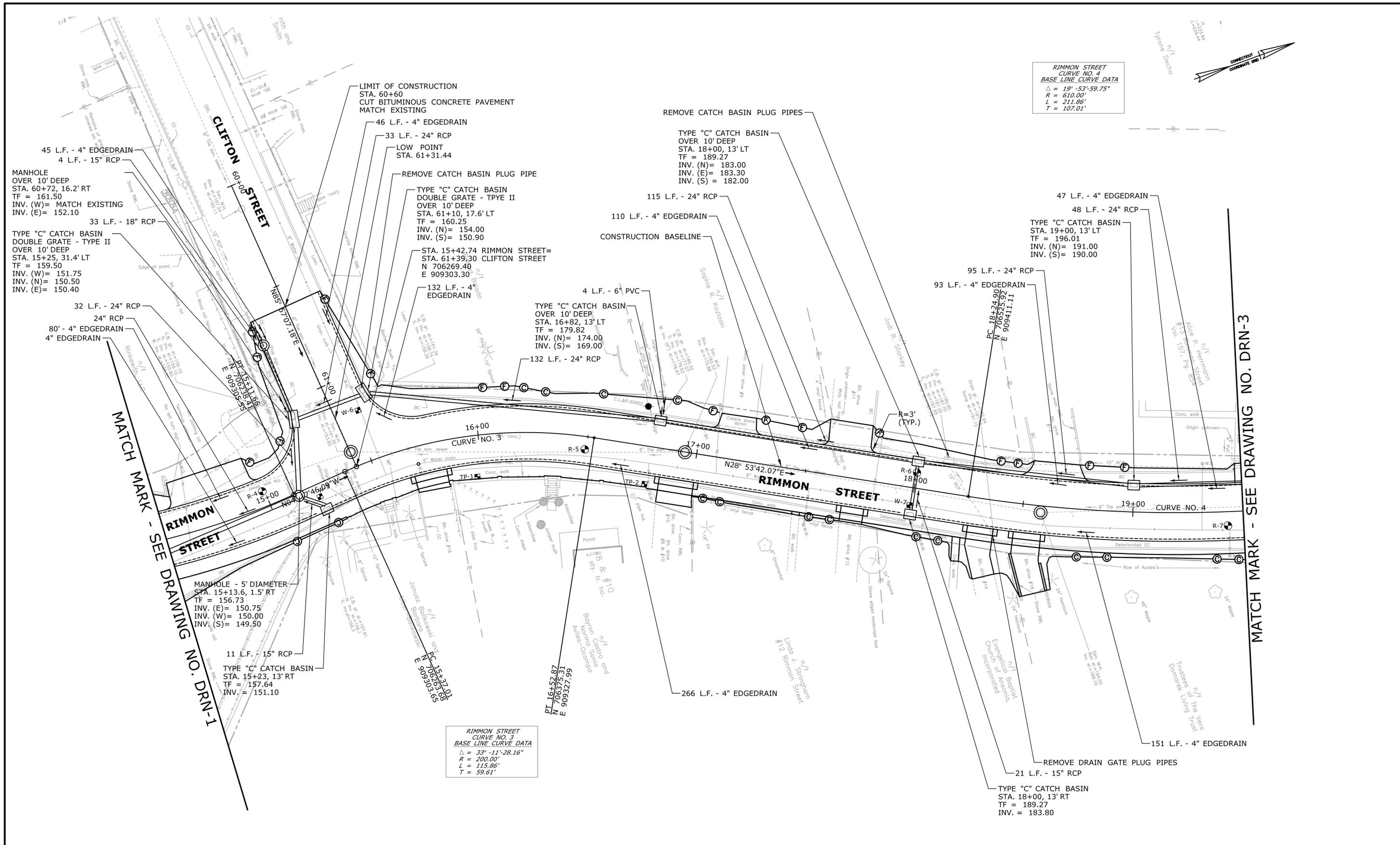
65 L.F. - 4" EDGEDRAIN

U SHAPED ENDWALL
WITH SIMULATED STONE
STA. 13+36, 23.2' RT
INV. = 130.75

FOR INTERMEDIATE RIPRAP
LIMITS SEE MDS-4.

HYDRODYNAMIC SEPARATOR
STA. 13+55, 20.8' RT
LIMIT OF CONSTRUCTION EASEMENT
FOR TEMPORARY WORK AREA

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DD	SCALE IN FEET 0 20 40 SCALE 1"=20'	FILENAME: ...VPlan\HW_MSH_DRN-1.dgn	SIGNATURE/BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169	
					THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			 DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451		DRAWING TITLE: DRAINAGE PLAN OLD DRIVE/RIMMON STREET STA. 10+50 TO STA. 14+50 OLD DRIVE STA. 50+00 TO STA. 52+32			DRAWING NO. DRN-1 SHEET NO. 03.35



**RIMMON STREET
CURVE NO. 4
BASE LINE CURVE DATA**
 $\Delta = 19^\circ - 53' - 59.75''$
 $R = 610.00'$
 $L = 211.86'$
 $T = 107.01'$

**RIMMON STREET
CURVE NO. 3
BASE LINE CURVE DATA**
 $\Delta = 33^\circ - 11' - 28.16''$
 $R = 200.00'$
 $L = 115.86'$
 $T = 59.61'$



MATCH MARK - SEE DRAWING NO. DRN-1

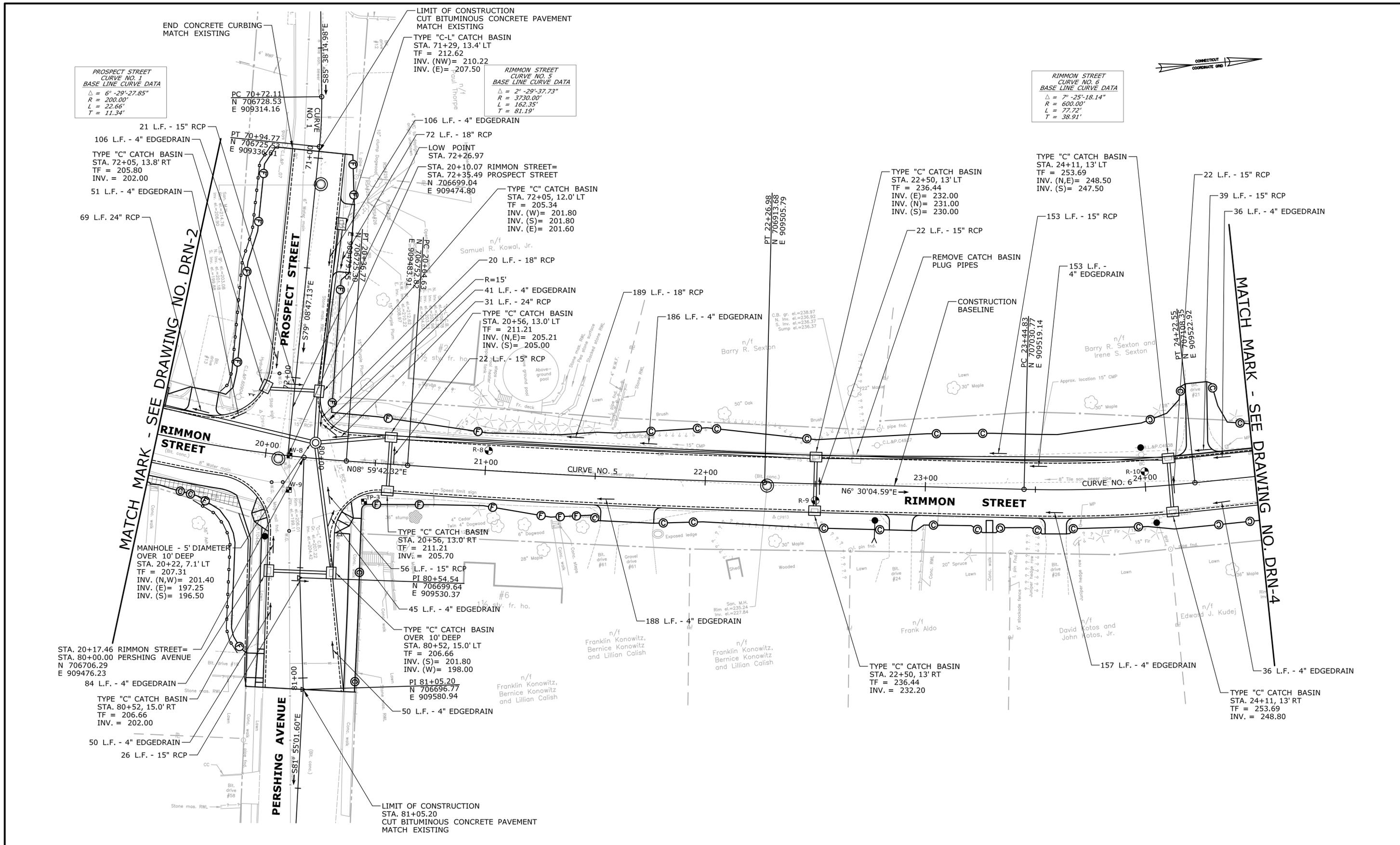
MATCH MARK - SEE DRAWING NO. DRN-3

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD					DRAWING TITLE: DRAINAGE PLAN RIMMON STREET STA. 14+50 TO STA. 19+50 CLIFTON STREET STA. 60+56 TO STA. 61+39.30
					SCALE IN FEET 0 20 40 SCALE 1"=20'	Filename: ...:\Plan\HW_MSH_DRN-2.dgn				SHEET NO. 03.36

PROSPECT STREET
CURVE NO. 1
BASE LINE CURVE DATA
Δ = 6°-29'-27.85"
R = 200.00'
L = 22.66'
T = 11.34'

RIMMON STREET
CURVE NO. 5
BASE LINE CURVE DATA
Δ = 2°-29'-37.73"
R = 3730.00'
L = 162.35'
T = 81.19'

RIMMON STREET
CURVE NO. 6
BASE LINE CURVE DATA
Δ = 7°-25'-18.14"
R = 600.00'
L = 77.72'
T = 38.91'



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
RL/ETK
CHECKED BY:
DD
SCALE IN FEET
0 20 40
SCALE 1"=20'

DESIGNED BY:

DE CARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451

Filename: ...Plan\HW_MSH_DRN-3.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
**RIMMON STREET
RECONSTRUCTION AND
DRAINAGE IMPROVEMENTS**

TOWN:
SEYMOUR

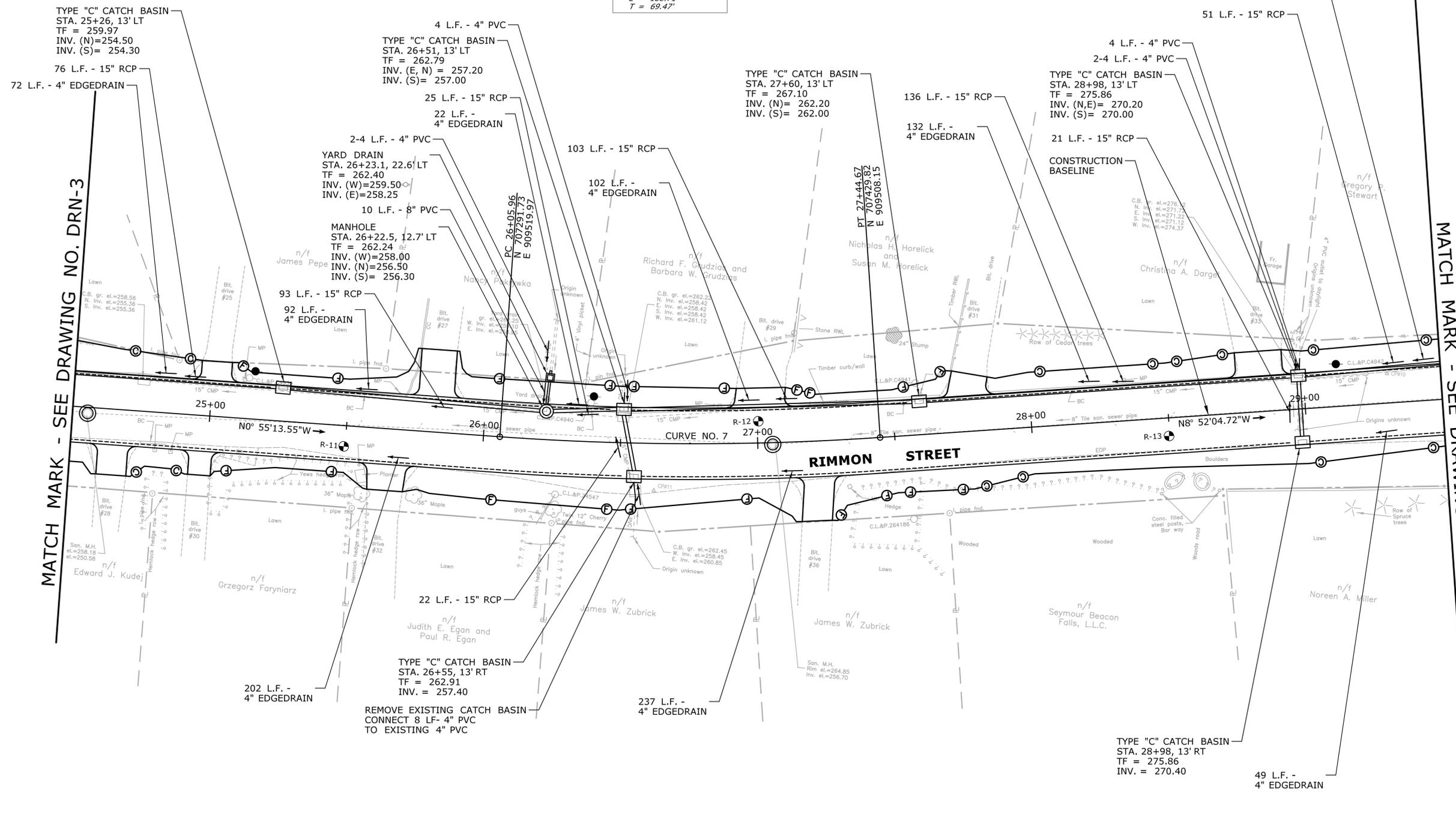
DRAWING TITLE:
DRAINAGE PLAN
RIMMON STREET STA. 19+50 TO STA. 24+50
PROSPECT STREET STA. 70+97 TO STA. 72+35.49
PERSHING AVENUE STA. 80+00 TO STA. 81+05

PROJECT NO.
124-169

DRAWING NO.
DRN-3

SHEET NO.
03.37

RIMMON STREET
 CURVE NO. 7
 BASE LINE CURVE DATA
 $\Delta = 75^\circ - 56' - 51.17''$
 $R = 1000.00'$
 $L = 138.71'$
 $T = 69.47'$

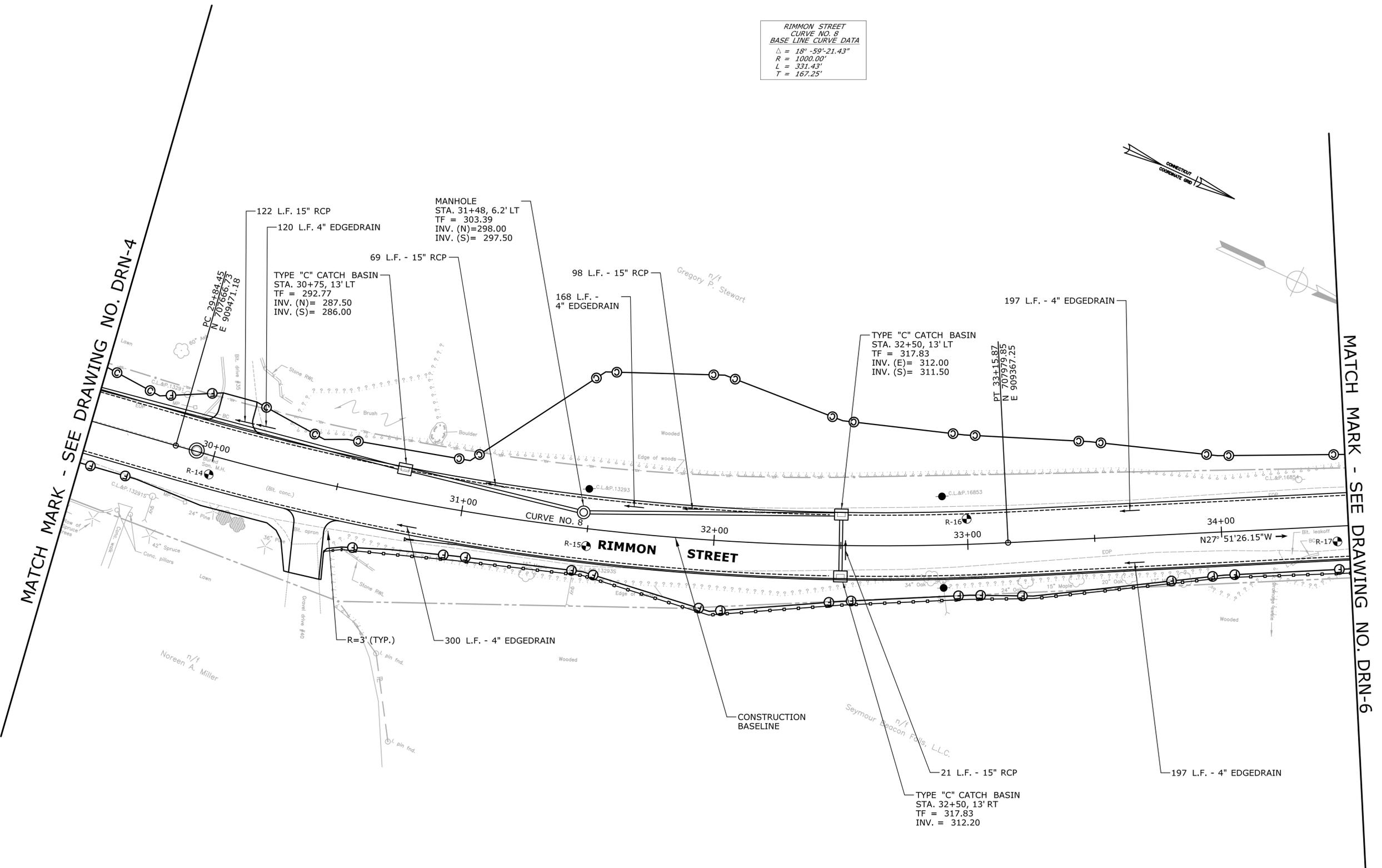


MATCH MARK - SEE DRAWING NO. DRN-3

MATCH MARK - SEE DRAWING NO. DRN-5

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: RL/ETK CHECKED BY: DD SCALE IN FEET SCALE 1"=20'	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451 Filename: ...VPlan\HW_MSH_DRN-4.dgn	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169 DRAWING NO. DRN-4 SHEET NO. 03.38
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DRAWING TITLE: DRAINAGE PLAN RIMMON STREET STA. 24+50 TO STA. 29+50		

RIMMON STREET
 CURVE NO. 8
 BASE LINE CURVE DATA
 $\Delta = 18^{\circ} - 59' - 21.43''$
 $R = 1000.00'$
 $L = 331.43'$
 $T = 167.25'$



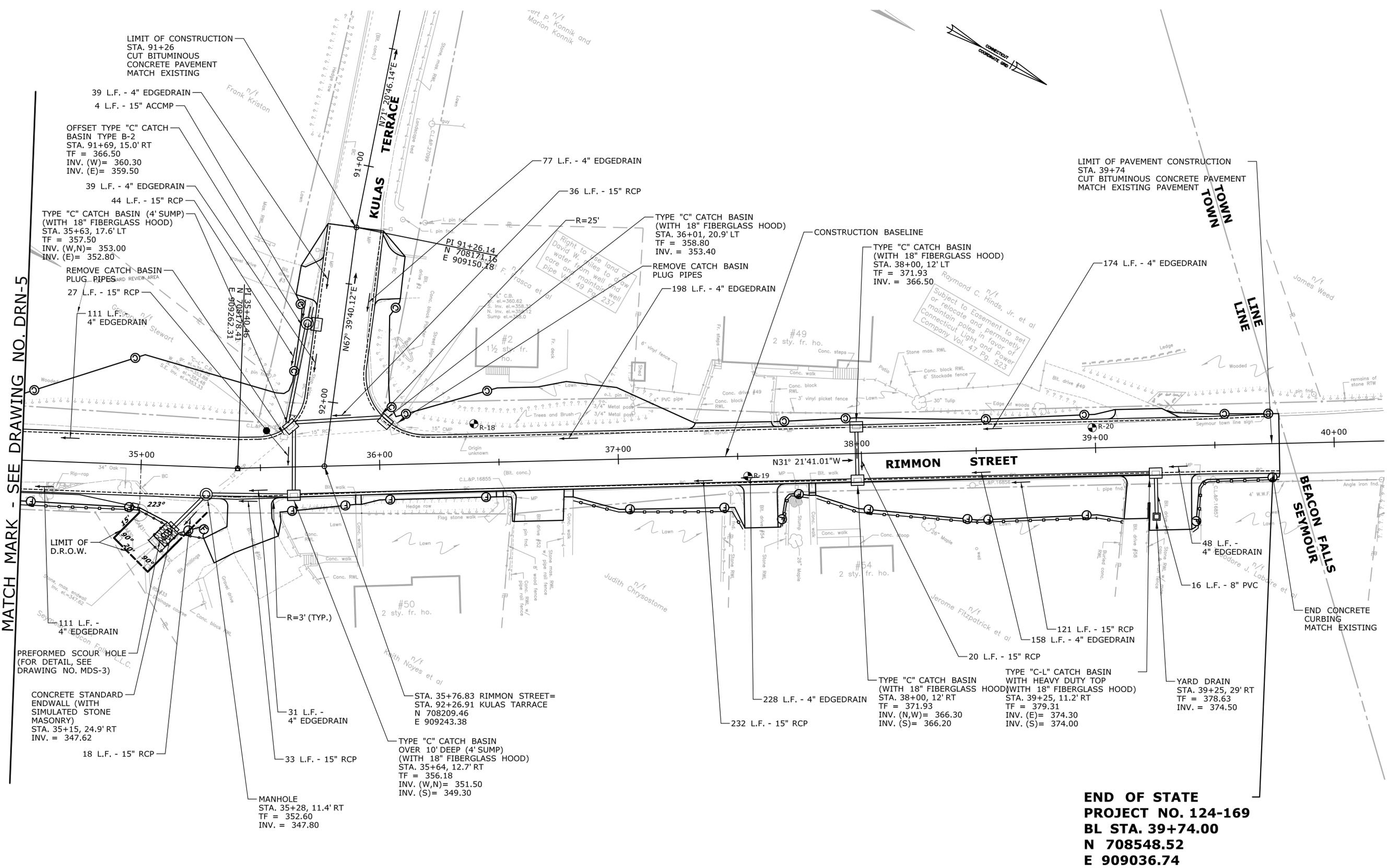
MATCH MARK - SEE DRAWING NO. DRN-4

MATCH MARK - SEE DRAWING NO. DRN-6

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD				DRAWING TITLE: DRAINAGE PLAN RIMMON STREET STA. 29+50 TO STA. 34+50	DRAWING NO. DRN-5
					SCALE IN FEET 0 20 40 SCALE 1"=20'	FILENAME: ...Plan\HW_MSH_DRN-5.dgn			SHEET NO. 03.39	

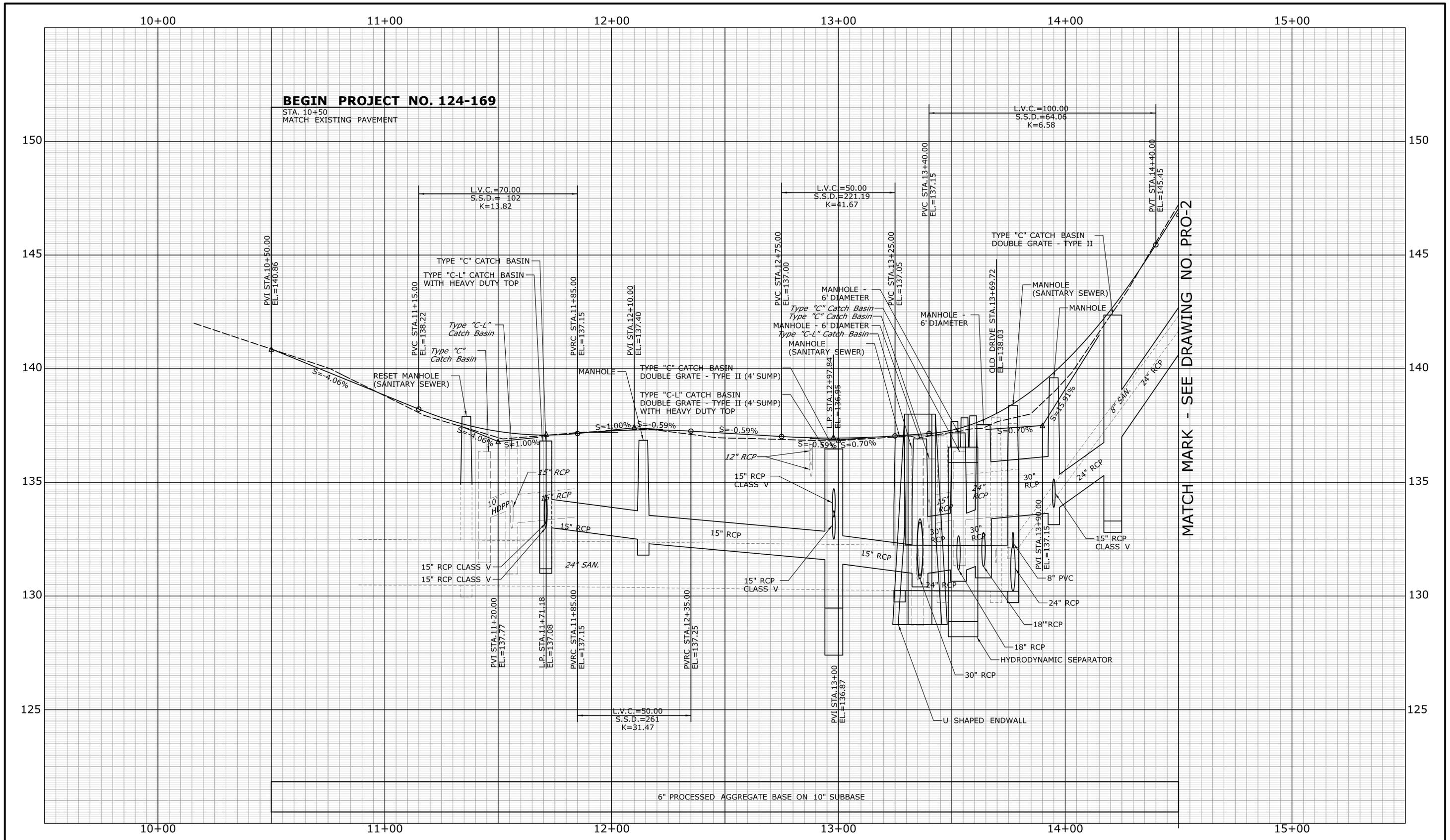
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

MATCH MARK - SEE DRAWING NO. DRN-5



END OF STATE PROJECT NO. 124-169
BL STA. 39+74.00
N 708548.52
E 909036.74

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD					DRAWING NO. DRN-6
					SCALE IN FEET 0 SCALE $\frac{1}{8}$ NOTED 40 SCALE 1"=20'	Filename: ...VPlan\HW_MSH_DRN-6.dgn			DRAWING TITLE: DRAINAGE PLAN RIMMON STREET STA. 34+50 TO STA. 39+77 KULAS TERRACE STA. 91+26 TO STA. 92+26.91	SHEET NO. 03.40



BEGIN PROJECT NO. 124-169

STA. 10+50
MATCH EXISTING PAVEMENT

MATCH MARK - SEE DRAWING NO. PRO-2

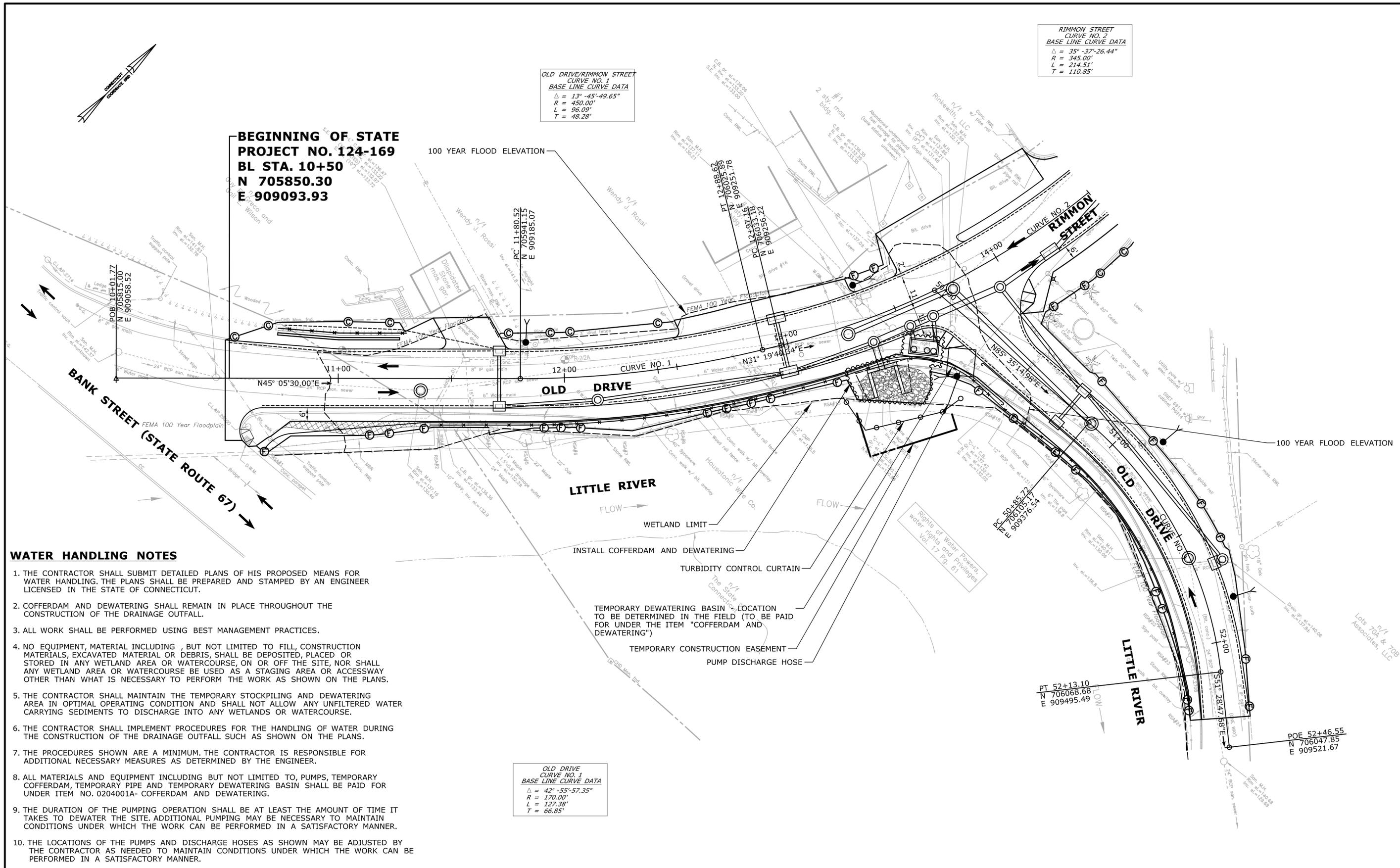
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK CHECKED BY: DD	DESIGNED BY:  DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451 Filename: ...Profile\HW_MSH_PRO-1.dgn	SIGNATURE/BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169 DRAWING NO. PRO-1 SHEET NO. 03.41
					THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.					

RIMMON STREET
 CURVE NO. 2
 BASE LINE CURVE DATA
 $\Delta = 35^\circ - 37' - 26.44''$
 $R = 345.00'$
 $L = 214.51'$
 $T = 110.85'$

OLD DRIVE/RIMMON STREET
 CURVE NO. 1
 BASE LINE CURVE DATA
 $\Delta = 13^\circ - 45' - 49.65''$
 $R = 450.00'$
 $L = 96.09'$
 $T = 48.28'$

OLD DRIVE
 CURVE NO. 1
 BASE LINE CURVE DATA
 $\Delta = 42^\circ - 55' - 57.35''$
 $R = 170.00'$
 $L = 127.38'$
 $T = 66.85'$

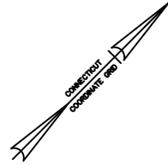
**BEGINNING OF STATE
 PROJECT NO. 124-169
 BL STA. 10+50
 N 705850.30
 E 909093.93**



WATER HANDLING NOTES

1. THE CONTRACTOR SHALL SUBMIT DETAILED PLANS OF HIS PROPOSED MEANS FOR WATER HANDLING. THE PLANS SHALL BE PREPARED AND STAMPED BY AN ENGINEER LICENSED IN THE STATE OF CONNECTICUT.
2. COFFERDAM AND DEWATERING SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION OF THE DRAINAGE OUTFALL.
3. ALL WORK SHALL BE PERFORMED USING BEST MANAGEMENT PRACTICES.
4. NO EQUIPMENT, MATERIAL INCLUDING , BUT NOT LIMITED TO FILL, CONSTRUCTION MATERIALS, EXCAVATED MATERIAL OR DEBRIS, SHALL BE DEPOSITED, PLACED OR STORED IN ANY WETLAND AREA OR WATERCOURSE, ON OR OFF THE SITE, NOR SHALL ANY WETLAND AREA OR WATERCOURSE BE USED AS A STAGING AREA OR ACCESSWAY OTHER THAN WHAT IS NECESSARY TO PERFORM THE WORK AS SHOWN ON THE PLANS.
5. THE CONTRACTOR SHALL MAINTAIN THE TEMPORARY STOCKPILING AND DEWATERING AREA IN OPTIMAL OPERATING CONDITION AND SHALL NOT ALLOW ANY UNFILTERED WATER CARRYING SEDIMENTS TO DISCHARGE INTO ANY WETLANDS OR WATERCOURSE.
6. THE CONTRACTOR SHALL IMPLEMENT PROCEDURES FOR THE HANDLING OF WATER DURING THE CONSTRUCTION OF THE DRAINAGE OUTFALL SUCH AS SHOWN ON THE PLANS.
7. THE PROCEDURES SHOWN ARE A MINIMUM. THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL NECESSARY MEASURES AS DETERMINED BY THE ENGINEER.
8. ALL MATERIALS AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, PUMPS, TEMPORARY COFFERDAM, TEMPORARY PIPE AND TEMPORARY DEWATERING BASIN SHALL BE PAID FOR UNDER ITEM NO. 0204001A- COFFERDAM AND DEWATERING.
9. THE DURATION OF THE PUMPING OPERATION SHALL BE AT LEAST THE AMOUNT OF TIME IT TAKES TO DEWATER THE SITE. ADDITIONAL PUMPING MAY BE NECESSARY TO MAINTAIN CONDITIONS UNDER WHICH THE WORK CAN BE PERFORMED IN A SATISFACTORY MANNER.
10. THE LOCATIONS OF THE PUMPS AND DISCHARGE HOSES AS SHOWN MAY BE ADJUSTED BY THE CONTRACTOR AS NEEDED TO MAINTAIN CONDITIONS UNDER WHICH THE WORK CAN BE PERFORMED IN A SATISFACTORY MANNER.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD					
					SCALE IN FEET 0 20 40 SCALE 1"=20'	Filename: ...VPlan\HW_MSH_WH-1.dgn			DRAWING TITLE: WATER HANDLING PLAN OLD DRIVE/RIMMON STREET STA. 10+50 TO STA. 14+50 OLD DRIVE STA. 50+00 TO STA. 52+32	SHEET NO. 03.52

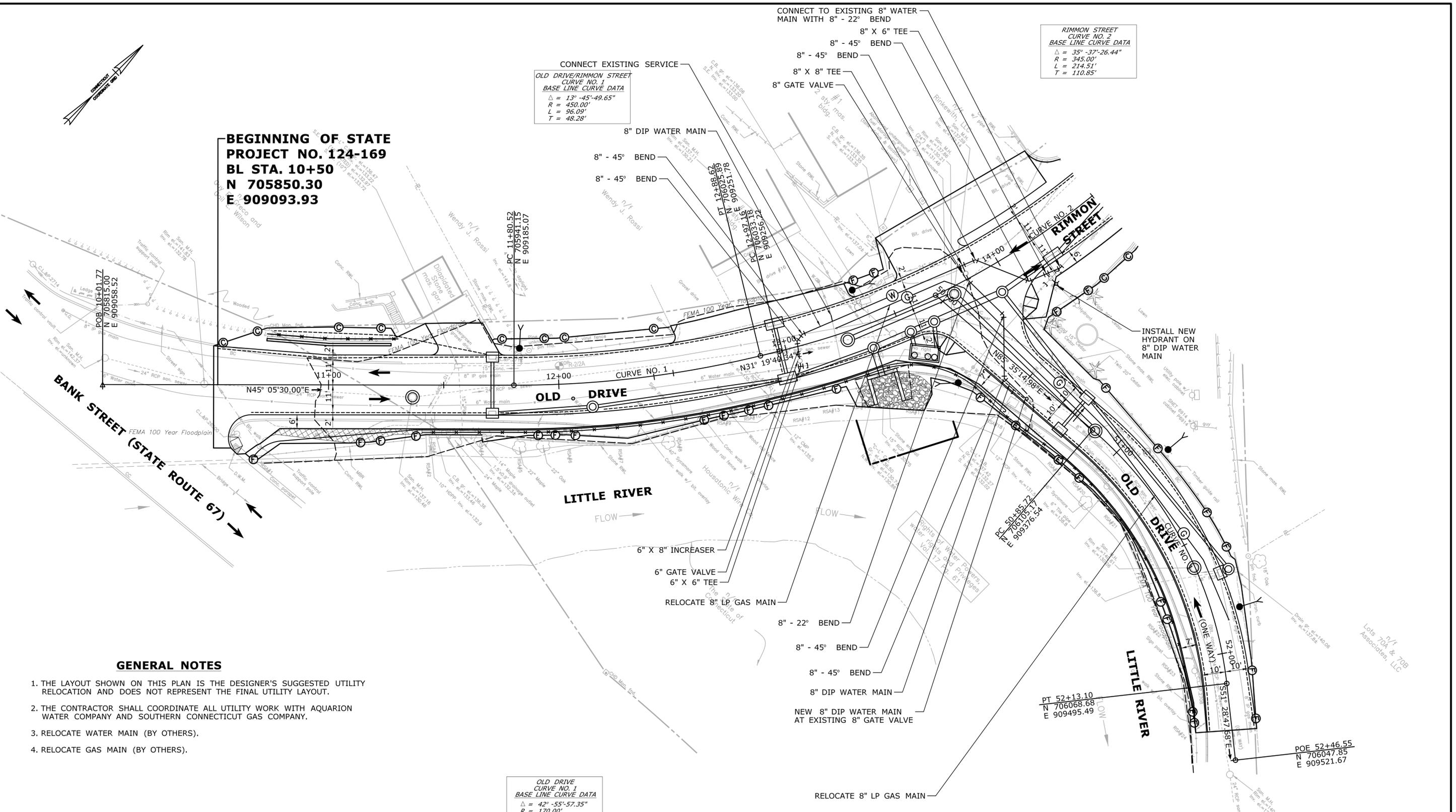


**BEGINNING OF STATE
PROJECT NO. 124-169
BL STA. 10+50
N 705850.30
E 909093.93**

CONNECT EXISTING SERVICE
**OLD DRIVE/RIMMON STREET
CURVE NO. 1
BASE LINE CURVE DATA**
Δ = 13° - 45' - 49.65"
R = 450.00'
L = 96.09'
T = 48.28'

**RIMMON STREET
CURVE NO. 2
BASE LINE CURVE DATA**
Δ = 35° - 37' - 26.44"
R = 345.00'
L = 214.51'
T = 110.85'

**OLD DRIVE
CURVE NO. 1
BASE LINE CURVE DATA**
Δ = 42° - 55' - 57.35"
R = 170.00'
L = 127.38'
T = 66.85'



GENERAL NOTES

1. THE LAYOUT SHOWN ON THIS PLAN IS THE DESIGNER'S SUGGESTED UTILITY RELOCATION AND DOES NOT REPRESENT THE FINAL UTILITY LAYOUT.
2. THE CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH AQUARION WATER COMPANY AND SOUTHERN CONNECTICUT GAS COMPANY.
3. RELOCATE WATER MAIN (BY OTHERS).
4. RELOCATE GAS MAIN (BY OTHERS).

**THIS SHEET IS FOR INFORMATION ONLY.
ALL UTILITY WORK TO BE PERFORMED BY UTILITY
COMPANY OR THEIR REPRESENTATIVES.**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/5/2016	DESIGNER/DRAFTER: RL/ETK	DESIGNED BY: DE CARLO & DOLL, INC. 89 COLONY STREET MERIDEN, CONNECTICUT 06451	SIGNATURE/ BLOCK:	PROJECT TITLE: RIMMON STREET RECONSTRUCTION AND DRAINAGE IMPROVEMENTS	TOWN: SEYMOUR	PROJECT NO. 124-169
					CHECKED BY: DD					
					SCALE IN FEET 0 20 40 SCALE 1"=20'	File name: ...\\plan\HW_MSH_UT-1.dgn		DRAWING TITLE: UTILITY PLAN OLD DRIVE/RIMMON STREET STA. 10+50 TO STA. 14+50 OLD DRIVE STA. 50+00 TO STA. 52+32		SHEET NO. 03.53