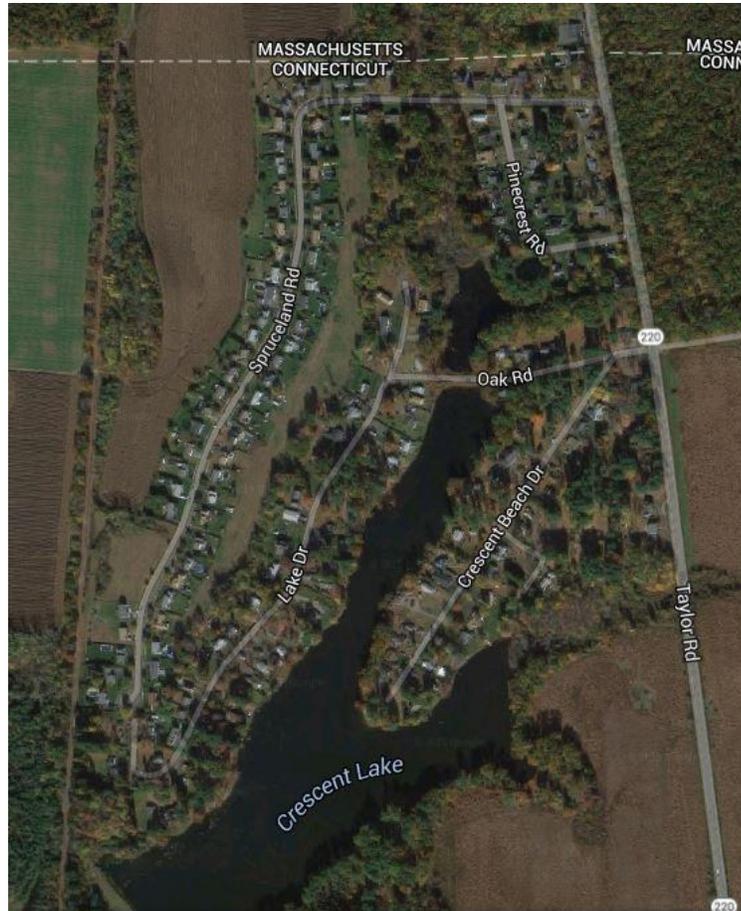




Stormwater Pollution Control Plan Crescent Lake Area Town of Enfield, Connecticut



Prepared for:
Town of Enfield

Prepared by:
Weston & Sampson Engineers, Inc.
WSE Project No. 2150068

January 2016

engineering, energy,
planning, permitting,
design, construction,
operation, maintenance

Weston&Sampson®

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INTRODUCTION & SITE DESCRIPTION

This Stormwater Pollution Control Plan (SPCP) has been prepared on behalf of Town of Enfield, CT as part of the registration process under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities effective October 1, 2013. As part of the Town's Roads 2015/2016 program, the roads within the Crescent Lake area will be reconstructed. Crescent Lake is located in the north-east corner of the Town of Enfield, along the western side of Rt-220 close to the Massachusetts border. The Crescent Lake residential area abuts the east, north and west sides of Crescent Lake and includes approximately 11,000 linear feet of roadway on Spruceland Road, Lake Drive, Pinecrest Road, Oak Road, Crescent Beach Road and Brookside Road as shown in Figure 1.

The proposed project includes rehabilitation/ reconstruction of the roadways including minor vertical and horizontal realignments, new storm drainage systems and new curbing. The project area has several discharge points into the wetlands/ watercourse. The total disturbed project area for the entire project is 9.7 acres and this work area is registered with CTDEEP as a locally exempt new registration.

During construction, the contractor shall be responsible for implementing all the sedimentation and erosion control measures as shown in the plans and as defined in this SPCP. Erosion and sedimentation controls will be implemented and adjusted as needed throughout construction to minimize soil erosion.

MASSACHUSETTS
CONNECTICUT

MASS
CON

Pinecrest Rd

Spruceland Rd

220

Oak Rd

Lake Dr

Crescent Beach Dr

Taylor Rd

Crescent Lake

220

Receiving Waters & Site Drainage

Stormwater from the discharge points at the project site discharge into Freshwater Brook and Crescent Lake. Freshwater Brook flows in a southerly direction through a culvert crossing on Spruceland Road which feeds into Crescent Lake. Crescent Lake is a 35-acre body of water with water levels in the lake controlled by the Crescent Lake Dam located at the west side of the lake. Crescent Lake has an approximate watershed area of 2.15 sq. mi. at the dam. Relevant project plans are included in Appendix A. Table given below shows the discharge points for both the existing and proposed storm drainage systems within the project area.

Site Discharge	Drainage Area (AC.)	Outlet	Receiving Waters
SP # 1 (Downstream of Crescent Lake Dam)	8.3	30" RCP	Crescent Lake
SP # 2 (Spruceland Road, Sta. 8+43L)	5.5	24" RCP	Crescent Lake
SP # 3 (Spruceland Road, Sta. 32+90R)	2.5	15" RCP	Freshwater Brook
SP # 4 (Spruceland Road, Sta. 33+45R)	1.5	15" RCP	Freshwater Brook
PC # 1 (Pinecrest Road, Sta. 105+34R)	4.4	24"x36" ACCMP	Crescent Lake
LD # 1 (Lake Drive, Sta. 227+91)	1.0	15" RCP	Crescent Lake
LD # 2 (Lake Drive, Sta. 217+48)	1.1	15" RCP	Crescent Lake
LD # 3 (Lake Drive, Sta. 217+44)	8.3	15" RCP	Crescent Lake
LD # 4 (Lake Drive, Sta. 217+40)	2.3	18" RCP	Crescent Lake
OA # 1 (Oak Road, Sta. 303+19L)	0.24	Riprapped Leakoff	Crescent Lake
OA # 2 (Oak Road, Sta. 303+19R)	0.25	Riprapped Leakoff	Crescent Lake
CB # 1 (Crescent Beach Road, Sta. 500+34L)	3.7	18" RCP	Crescent Lake
CB # 2 (Crescent Beach Road, Sta. 403+92L)	0.7	15" RCP	Crescent Lake
CB # 3 (Crescent Beach Road, Sta.400+62R)	0.1	Riprapped Leakoff	Crescent Lake

Refer to the aerial map (Figure 1) for location of these outfalls. The proposed reconstruction of Spruceland and Pinecrest Roads involves only minor modifications to the vertical profiles while maintaining the existing roadway widths. Drainage changes include replacing the tops of the drainage structures with minor modifications to some of the existing drainage systems. It should be noted that the proposed improvements include maintaining the existing roadway widths with no additional proposed sidewalks and therefore does not increase any impervious surface.

The reconstructed roadway on Lake Drive and Oak, Crescent Beach and Brookside Roads will have changes to the vertical profile and providing new curbs to retain most of the stormwater in the roadway. New closed drainage systems are proposed in these roads to effectively eliminate the existing nuisance drainage issues and also address water quality.

Overall the proposed project results in an increase of 16.3 cfs (proposed 86.3 cfs compared to existing 74 cfs) of discharge from the closed drainage systems into the lake. It should be noted that runoff from large sections of Lake and Crescent Beach Drives currently infiltrates or

discharges through open space into the Lake. Any changes to the discharge into the Lake would be a minor percentage change contributing to 35 acres of Crescent Lake.

The existing project area has water quality issues at most of the roadways in the project area with the sediment being discharged directly into the Lake due to lack of water quality treatment measures. The proposed drainage improvements will have significant improvement in terms of water quality. All proposed catch basins include two foot sumps and the last catch basin before the outfall will have four foot sumps to trap sediments. All the proposed catch basins will have traps or hoods to further prevent sediments discharging downstream. Moreover some of the proposed outfalls will have riprap splash pads which not only reduce erosion due to high velocities but also trap sediments.

CONSTRUCTION SEQUENCE

The roadways will be constructed in phases to limit the disturbed areas and inconvenience to public. Construction has been initiated in the Fall of 2015 for certain sections of the project area while maintaining the necessary erosion and sedimentation control measures. Major portion of the construction for the rest of the project area will begin in Spring of 2016 and end in the Fall of 2016. The general construction sequence consists of:

- Install erosion control measures by minimum clearing within project limits.
- Remove existing pavement and install drainage structures as required.
- Install base materials and pavement to binder course.
- Install drainage structure tops.
- Final pavement course.
- Perform final grading and seeding of disturbed areas.

WATER QUALITY MEASURES

The existing project area has water quality issues at most of the roadways in the project area with the sediment being discharged directly into the Lake due to lack of water quality treatment measures. The proposed drainage improvements will have significant improvement in terms of water quality. All proposed catch basins include two foot sumps and the last catch basin before the outfall will have four foot sumps to trap sediments. All the proposed catch basins will have traps or hoods to further prevent sediments discharging downstream. Moreover some of the proposed outfalls will have riprap splash pads which not only reduce erosion due to high velocities but also trap sediments.

As per ConnDOT design procedures, drainage systems with 10 or more catch basins should provide a sediment basin or a hydrodynamic separator to address water quality. The proposed systems Lake Drive Central 2 and Brookside Road will have 10 or more proposed catch basins. However, due to the presence of high groundwater conditions it is impractical to provide a hydrodynamic separator. Overall the proposed project addresses water quality prior to discharge at the outfall.

Turf will be established in the grading areas and allowed to naturally reestablish with grass. Water quality will be maintained and protected via the use of erosion and sedimentation prevention measures and the use of best management practices for construction activity within wetlands and upland buffer zone. Sedimentation and erosion control measures which includes silt fence at the fill limits and silt sacs at the catch basins will be provided as shown in the plans.

EROSION AND SEDIMENTATION CONTROL

Erosion and sediment controls shall conform to the requirements of the “Connecticut Guidelines for Soil Erosion and Sediment Control” dated May 2002 and the 2004 “Connecticut Stormwater Quality Manual”. The proposed project includes erosion control measures to adequately control accelerated erosion and sedimentation and reduce the impacts of stormwater runoff at the site. The runoff will be controlled by the interception, diversion and safe disposal of precipitation. Also, runoff will be controlled by staging construction activity and preserving natural vegetation whenever possible.

Construction notes pertaining to Erosion and Sedimentation (E&S) are provided on Sheet GEN-1 of the plan set; and E&S Control measures are provided on Sheet DET-6 of the plan set. Prior to construction, the contractor will be required to submit detailed plans for erosion & sedimentation control in order to insure permit compliance and understanding. These plans will be reviewed by the Engineer for compliance against approved permits, as well as the construction plans and specifications, which include design details for E&S measures. Also, prior to performing any work, the contractor shall install all the erosion and sedimentation control measures.

During construction, the contractor will be expected to revise and maintain all erosion and sedimentation control measures to ensure that they are effective and providing adequate protection to the stream and wetland environment within the project area. Requirements of the erosion and sedimentation control plans are included in the plans. Also, an experienced inspector will be on site during the entire project to ensure that all construction operations, including the installation and maintenance of E&S measures, are performed in accordance with the approved plan and contract requirements. The inspector will report directly to the Town and will act as the Town’s representative during all construction activities.

Soil Stabilization and Protection

Both temporary and permanent stabilization practices shall be implemented throughout the project to minimize soils erosion from disturbed areas. The total limit of disturbance for the entire project site is 9.7 acres. All temporary exposed areas or stockpiles which will be inactive for more than thirty days and have not reached finished grades, shall receive a temporary vegetative cover within seven days after the suspension of work. The installation of permanent vegetation shall be placed on all exposed areas within seven days of final grading as shown in the plans.

Structural Measures

Structural measures shall be implemented to control the transport of sediment and minimize discharge of pollutants from the site. Silt fence will be provided to reduce downgradient siltation by acting as sediment filter. Silt sacks will be provided at the catch basin inlets to trap the

sediments. Silt fence and sediment control at catch basins shall be removed only when the entire site has been permanently stabilized.

RUNOFF REDUCTION & LOW IMPACT DEVELOPMENT (LID)

The project is generally considered a linear redevelopment project consisting of rehabilitation/reconstruction of roadways. Proposed improvements include maintaining the existing roadway widths with no additional proposed sidewalks and therefore do not increase the runoff coefficient of the project site. There will be no significant impacts to runoff peak flow rate into the lake.

The existing project area has water quality issues at most of the roadways in the project area with the sediment being discharged directly into the Lake due to lack of water quality treatment measures. The proposed drainage improvements will have significant improvement in terms of water quality. All proposed catch basins include two foot sumps and the last catch basin before the outfall will have four foot sumps to trap sediments. All the proposed catch basins will have traps or hoods to further prevent sediments discharging downstream. Moreover some of the proposed outfalls will have riprap splash pads which not only reduce erosion due to high velocities but also trap sediments. Hydrodynamic separators are proposed to further address water quality at five stormwater discharge systems.

INSPECTIONS

The project site must be inspected initially within the first 30 days following commencement of the construction activity. The site shall be inspected at least once and no more than three times during the first 90 days to ensure proper implementation of all sedimentation and erosion control measures. Inspections must be completed by a qualified representative of the Town.

The permittee shall routinely inspect on a weekly basis and within 24 hours of a rainfall event that generates a discharge until a notice of termination has been submitted. The permittee shall maintain a rain gauge on site to document rainfall amounts. For storms that equal or exceed 0.5 inches that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, an inspection is required within 24 hours. For storms of less than 0.5 inches, an inspection shall occur immediately upon the start of the subsequent normal working hours. Once the site has been temporarily or finally stabilized, an inspection shall be conducted at least once every month for the three months.

A report shall be prepared and retained as part of the plan. The report shall summarize the following:

- The scope of the inspection
- Name and qualifications of the personnel performing the inspection
- Date of the inspection
- Weather conditions including precipitation information
- Major observations relating to the implementation of the storm water pollution control plan

- Description of the stormwater discharge from the site
- Any water quality monitoring performed during the inspection
- Statement that the site is either in compliance or out of compliance with the terms and conditions of the Plan and General Permit.

If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions. Interim measures shall be implemented to minimize the potential for the discharge of pollutants to the site during the period in which any corrective actions are being developed.

MONITORING

Stormwater sampling for monitoring turbidity is required at the project site. Sampling shall occur on a monthly basis during storm events that generate a stormwater discharge from the site while construction activity is ongoing, until final stabilization of the drainage area associated with each outfall is achieved. Sampling is not required if there is no stormwater discharge or may be temporarily suspended if the conditions pose a threat to the safety of the person taking the sample.

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. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and the characteristics of the discharge. The first sample shall be taken within the first hour of stormwater discharge from the site. If there is no discharge during any given monitoring period, the permittee shall submit the form as required and indicate “no discharge” for monitoring results. Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings (i.e. not composite). The average of the three samples will be reported. Sampling is required at all existing point source discharges of stormwater for this project site. Monitoring reports shall be submitted to CTDEEP in accordance with the provisions outlined in the General Permit. The locations of the sampling points, or drainage points, are as given below:

- Spruceland Road, Sta. 8+43L
- Spruceland Road, Sta. 32+90R
- Spruceland Road, Sta. 33+45R
- Pinecrest Road, Sta. 105+34R
- Lake Drive, Sta. 227+91
- Brookside Road, Sta. 500+29R

These points shall be clearly marked in the field with a flag, stake, or other visible marker. A blank copy of the stormwater monitoring report is included in Appendix C.

POST CONSTRUCTION STORMWATER MANAGEMENT AND CONTROLS

All the disturbed areas shall be stabilized at the end of construction. The contractor shall be responsible for cleaning all post-construction stormwater structures and removal of remaining silt fence before filing a termination notice. The Town of Enfield, or a qualified representative, shall inspect the site 3 months after stabilization has been achieved. If the inspection confirms that the site is stable, as described in the General Permit, the Town of Enfield shall submit to the CT DEEP a Notice of Termination form.

ENDANGERED AND THREATENED SPECIES

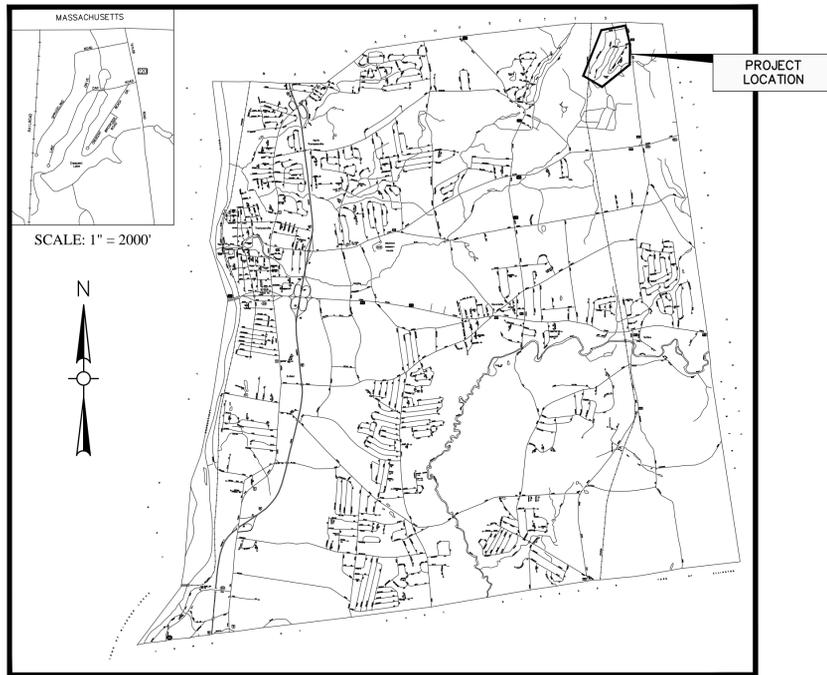
The project site is not located within/ in the vicinity of areas of endangered or threatened species based on the review of the Natural Diversity data Base (NDDB) Areas in Enfield, CT. Therefore, a NDDB review was not requested. A copy of the latest NDDB map dated September 2015 is included as part of Attachment C of the General Permit Registration Form.

TERMINATION

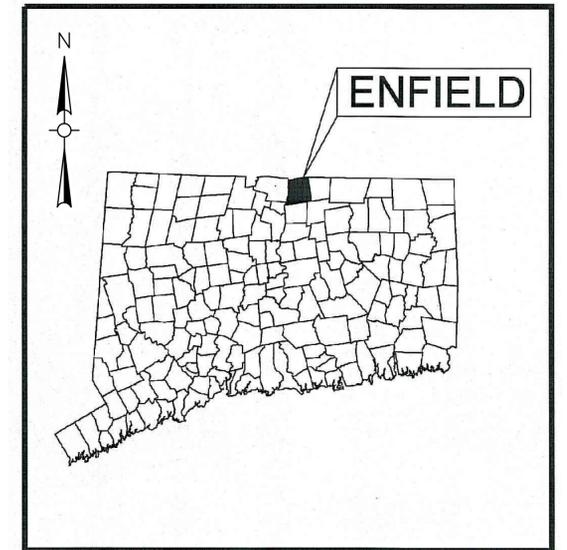
A termination notice shall be filed by the registrant once the project is complete. A project shall be considered complete once the site has been stabilized and all final inspections are performed. A blank copy of the Notice of Termination Form is included in Appendix C.

APPENDIX A:
Relevant Project Plans

TOWN OF ENFIELD, CT ROADS 2015 REFERENDUM CRESCENT LAKE AREA ROAD RECONSTRUCTION CONTRACT #15-6



SCALE: 1" = 5000'



NOT TO SCALE

CONTENTS

SHEET NO.	SHEET NAME	SHEET TITLE
1	GEN-1	INDEX PLAN, LEGEND, AND NOTES
2	EST-1	DETAILED ESTIMATE SHEET
3	TIE-1	SURVEY TIE PLAN
4 - 6	BOR-1 TO BOR-3	BORING LOGS
7 - 8	TYP-1 TO TYP-2	TYPICAL SECTIONS
9 - 20	DET-1 TO DET-12	MISCELLANEOUS DETAILS
21 - 23	GRD-1 TO GRD-3	INTERSECTION GRADING PLANS
24 - 28	HWY-1 TO HWY-5	PLAN AND PROFILE - SPRUCELAND ROAD/PINECREST ROAD
29 - 31	HWY-6 TO HWY-8	PLAN AND PROFILE - LAKE DRIVE
32	HWY-9	PLAN AND PROFILE - OAK ROAD
33 - 34	HWY-10 TO HWY-11	PLAN AND PROFILE - CRESCENT BEACH DRIVE
35	HWY-12	PLAN AND PROFILE - BROOKSIDE ROAD
36 - 66	XSC-1 TO XSC-31	CROSS SECTIONS - SPRUCELAND RD
67 - 74	XSC-32 TO XSC-39	CROSS SECTIONS - PINECREST RD
75 - 99	XSC-40 TO XSC-64	CROSS SECTIONS - LAKE DR
100 - 107	XSC-65 TO XSC-72	CROSS SECTIONS - OAK ROAD
108 - 124	XSC-73 TO XSC-89	CROSS SECTIONS - CRESCENT BEACH DR
125 - 127	XSC-90 TO XSC-92	CROSS SECTIONS - BROOKSIDE RD



MATTHEW W. COPPLER
TOWN MANAGER

SCOTT R. KAUPIN
MAYOR

JONATHAN S. BILMES, P.E.
DIRECTOR OF PUBLIC WORKS

BROOKSIDE ROAD (STA: 500+19 TO 504+50)
CRESCENT BEACH DRIVE (STA: 400+44 TO 418+20)
LAKE DRIVE (STA: 200+00 TO 228+04)
OAK ROAD (STA: 300+00 TO 311+34)
PINECREST ROAD (STA: 100+00 TO 110+40.5)
SPRUCELAND ROAD (STA: 0+47 TO 40+42.5)

2004 CONNECTICUT DEPARTMENT OF
TRANSPORTATION SPECIFICATIONS FORM 816
INCLUDING SUPPLEMENTAL SPECIFICATIONS
DATED JANUARY 2015 GOVERN.

SURVEY INFORMATION DERIVED FROM:

VERTICAL DATUM - NAVD88
HORIZONTAL DATUM - NAD83

DESIGNED BY:
WESTON & SAMPSON
273 DIVIDEND ROAD
ROCKY HILL, CT 06067

CT. LIC. NO. 12856

AUGUST 2015

ISSUED FOR CONSTRUCTION
AUGUST 2015



CONSTRUCTION NOTES:

GENERAL:

- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSIONS OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
- THE CONTRACTOR SHALL PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
- FENCES, MAIL BOXES, SIGNS, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE PAID FOR UNDER CLEARING AND GRUBBING.
- ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE TOWN. PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS, IN ACCORDANCE WITH THE MINIMUM AND MAXIMUM SLOPES SPECIFIED.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE ENGINEER.
- WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH OF AT LEAST 12-INCHES BELOW THE BOTTOM OF TRENCH EXCAVATIONS, UNLESS OTHERWISE SPECIFIED.
- DURING THE PROCESS OF WORK, THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE AREA OF CONSTRUCTION ACTIVITIES, INCLUDING SWEEPING AND SPRINKLING OF STREETS AS NECESSARY, TO MINIMIZE CREATION AND DISPERSION OF DUST.
- WHERE EXISTING FENCES ARE TO BE REMOVED AND RESET, A TEMPORARY CONSTRUCTION FENCE SHALL BE ERRECTED AFTER REMOVAL FOR THE PROTECTION OF THE RESIDENTS. TEMPORARY CONSTRUCTION FENCES SHALL BE PAID FOR BY CLEARING AND GRUBBING.
- ALL HIGHWAY LINE MONUMENTATION WITHIN THE PROJECT LIMITS MUST BE DELINEATED AND PROTECTED FROM DAMAGE OR MOVEMENT. ANY COST ASSOCIATED WITH RESETTING OF THE MONUMENTATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COMPLETE ALL LAYOUTS, SURVEYS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AS SHOWN AND AS SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE PROPER STORM DRAINAGE AND SANITARY FLOWS ARE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL PROPOSED MANHOLES, MANHOLE COVERS AND FRAMES, CATCH BASINS, AND CATCH BASIN GRATES AND FRAMES SHALL CONFORM TO THE REQUIREMENTS OF THE TOWN OF ENFIELD.

17. REMOVAL OF ALL TREES WITHIN THE EXCAVATION LINES SHALL BE PAID FOR BY CLEARING AND GRUBBING.

18. ALL GUIDE RAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS, AND STANDARD DETAILS.

WORK RESTRICTIONS:

- DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
- NO WORK WILL BE ALLOWED TO BE PERFORMED ON SATURDAY OR SUNDAY.
- ALL CONSTRUCTION ACTIVITIES, INCLUDING THE LOADING AND UNLOADING OF MATERIALS AND EQUIPMENT, SHALL BE LIMITED TO MONDAY THROUGH FRIDAY FROM 7:00 AM TO 4:00 PM.

REGULATORY REQUIREMENTS:

- WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
- WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
- PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY, PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND LOCAL REQUIREMENTS.

EROSION AND SEDIMENT CONTROL:

- SEDIMENTATION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCING ANY WORK.
- CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
- REFER TO THE DRAWINGS FOR EROSION AND SEDIMENT CONTROL LOCATIONS.
- IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXISTING THE SITE, PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEAN-UP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
- EXISTING DRAINAGE STRUCTURES AND PIPES ARE TO BE CLEANED AND FLUSHED WHERE INDICATED ON THE PLANS AND SHALL BE PAID FOR BY CLEAN EXISTING DRAINAGE SYSTEM.
- INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER MAJOR RAINFALL EVENTS, DISPOSE OF SEDIMENT IN AN UPLOAD AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

7. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES, CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

8. THE CONTRACTOR SHALL INSTALL THE SPECIFIED EROSION CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE AND MAINTAIN THEM FOR THE DURATION OF THE PROJECT.

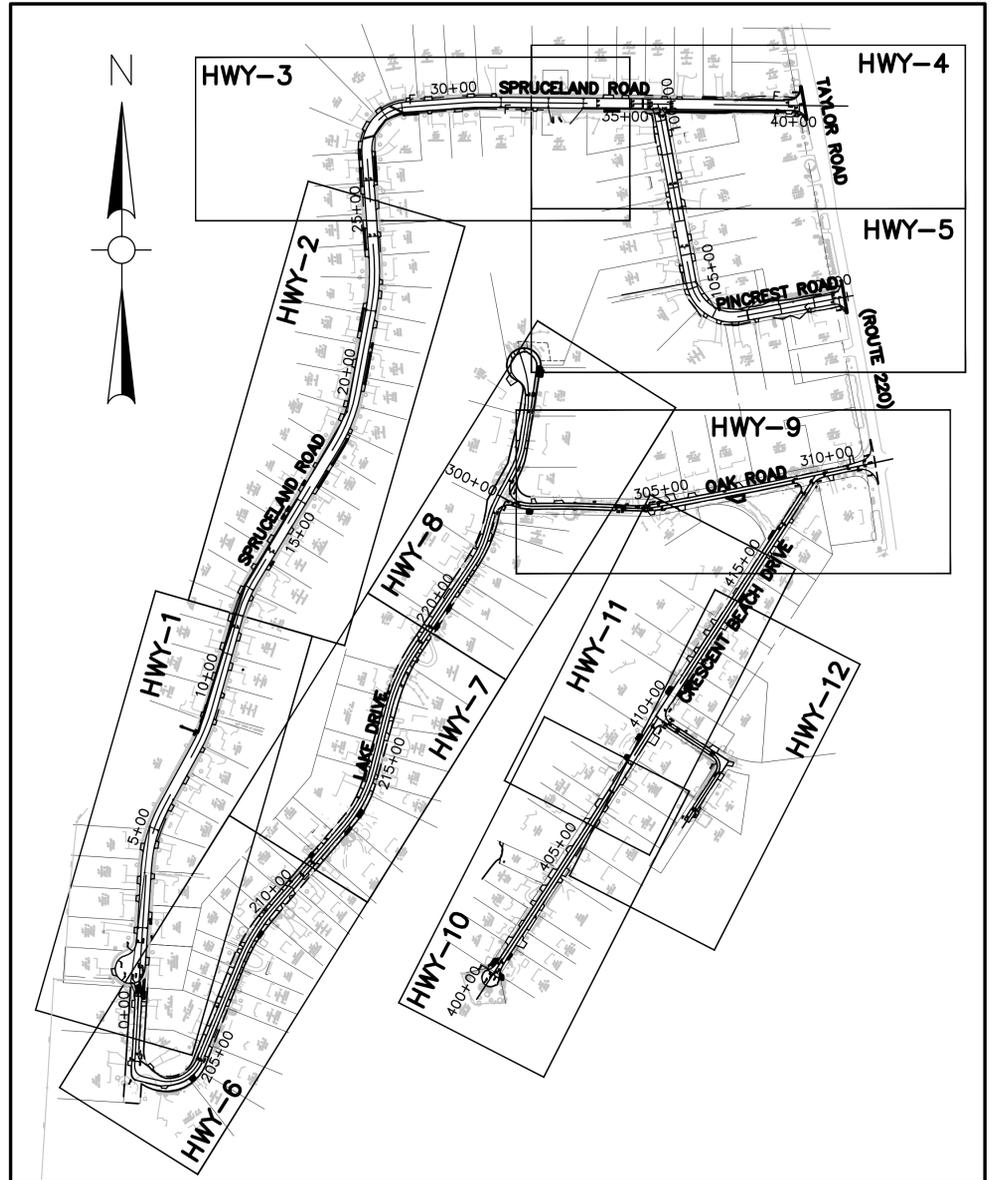
9. THE CONTRACTOR SHALL PROVIDE INLET PROTECTION AS SHOWN IN THE DETAILS ON THE EXISTING AND PROPOSED CATCH BASINS THROUGHOUT THE DURATION OF THE PROJECT.

UTILITIES:

- THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AND THE TOWN AT LEAST 72 SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE CBYD PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
- LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER. IF SUCH TEST PITS ARE ORDERED THEY WILL BE PAID FOR AS A CHANGE ORDER ON A TIME AND MATERIAL BASIS.
- TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
- THE CONTRACTOR SHALL PAY ALL FEES AND COSTS ASSOCIATED WITH UTILITY MODIFICATIONS AND CONNECTIONS, REGARDLESS OF THE ENTITY THAT PERFORMS THE WORK.
- THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC., WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS.
- RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES SHALL BE SET OR RESET FLUSH.
- ALL NEW CATCH BASIN STRUCTURE SHALL INCLUDE HOODS AND FLEXIBLE COUPLINGS. THE COST OF HOODS AND FLEXIBLE COUPLINGS WILL BE INCLUDED IN THE UNIT PRICE FOR THE STRUCTURE.
- EXISTING STRUCTURES SHALL BE CORED PRIOR TO INSTALLING PIPE.

HYDRODYNAMIC SEPARATOR:

- HYDRODYNAMIC SEPARATORS SHALL BE COMPLETELY CLEANED OF ACCUMULATED DEBRIS AND SEDIMENTS AT THE COMPLETION OF CONSTRUCTION.
- FOR THE FIRST YEAR, THE HYDRODYNAMIC SEPARATORS SHALL BE INSPECTED ON A QUARTERLY BASIS. ANY ACCUMULATED DEBRIS WITHIN THE HYDRODYNAMIC SEPARATOR SHALL BE REMOVED AND ANY REPAIRS MADE TO THE UNIT AS REQUIRED.
- FROM THE SECOND YEAR ONWARD, VISUAL INSPECTION SHALL OCCUR TWICE PER YEAR, ONCE IN THE SPRING AND ONCE IN THE FALL. AFTER FALL CLEANUP OF LEAVES HAS OCCURRED. ACCUMULATED DEBRIS WITHIN THE UNIT SHALL BE REMOVED AND REPAIRS MADE AS REQUIRED. ACCUMULATED SEDIMENTS SHALL BE REMOVED AT WHICH TIME THEY ARE WITHIN 12 INCHES OF THE INVERT OF THE OUTLET PIPE. ALL INLETS, OUTLETS AND COMPONENTS OF THE UNIT SHALL BE INSPECTED AND CLEARED OF DEBRIS. ANY REPAIRS SHALL BE PERFORMED.
- ANY ADDITIONAL MAINTENANCE REQUIRED PER THE MANUFACTURER'S SPECIFICATIONS SHALL ALSO BE COMPLETED.



INDEX PLAN
SCALE 1"=250'

INSTALLATION OF MANHOLE FRAMES AND CATCH BASIN TOPS TO FINISH GRADE:

- THE PROCEDURE FOR INSTALLING MANHOLE FRAMES AND CATCH BASIN TOPS TO FINISH GRADE SHALL BE AS STIPULATED IN THE FOLLOWING STEPS:
 - CATCH BASINS AND MANHOLES SHALL INITIALLY BE INSTALLED TO THE TOP OF THE SUBBASE LAYER, PLATED, AND WITH LOCATIONS REFERENCED MARKED.
 - AFTER DRAINAGE AND SANITARY SEWER STRUCTURES ARE PLATED, THE BASE COURSE OF BITUMINOUS CONCRETE SHALL BE INSTALLED TO THE GRADES SHOWN ON THE PLANS.
 - FROM THE REFERENCE MARKS, THE BASE COURSE OF PAVEMENT SHALL BE CUT, THE STRUCTURES EXPOSED AND THE TOPS PLACED TO FINAL GRADE.
 - THE FRAMES AND TOPS SHALL BE BROUGHT TO FINAL GRADE USING AN APPROPRIATE COMBINATION OF CONCRETE RISER RINGS, CEMENT MORTAR, CONCRETE BRICKS AND STEEL SHIMS, AS NECESSARY.
 - THE FRAMES AND TOPS SHALL BE ALIGNED TO MATCH THE PROPOSED CROSS SLOPE AND GRADE OF THE SURROUNDING PAVED SURFACE TO THE EXTENT PRACTICABLE.

SURVEY NOTES:

- BASE PLAN RIGHT OF WAY AND PROPERTY LINES SHOWN WERE FROM PLANS OF RECORD AUGMENTED BY FIELD SURVEY. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY BONGIOVANNI GROUP, INC.
- BASE PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND "THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
- THE BASE SURVEY CONFORMS TO THE FOLLOWING CLASSES OF ACCURACY:

STREET RIGHT OF WAY	A-2
TOPOGRAPHY WITHIN THE PAVED ROADWAY	T-2
- THE AERIAL TOPOGRAPHY DEPICTED OUTSIDE OF THE BONGIOVANNI GROUP, INC. GROUND SURVEY LIMITS IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE TOWN.
- THE HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF 1983 (NAD 1983).
- THE VERTICAL DATUM IS THE NORTH AMERICAN DATUM OF 1988 (NAVD 88).

AC	ASBESTOS CEMENT PIPE	LF	LINEAR FEET
BC	BITUMINOUS CONCRETE, BOTTOM OF CURB	LS	LUMP SUM
BIT	BITUMINOUS	MAX	MAXIMUM
BLDG	BUILDING	MB	MAIL BOX
BM	BENCH MARK	MECH	MECHANICAL
CATV	CABLE TELEVISION	MH	MANHOLE
CB	CATCH BASIN	MIN	MINIMUM
CC	CONCRETE CURB	MISC	MISCELLANEOUS
CI	CAST IRON	N	NORTH
CL	CENTERLINE	NF	NOT FOUND
CMP	CORRUGATED METAL PIPE	NO OR #	NUMBER
CONC	CONCRETE	PE	POLYETHYLENE
CP	CONTROL POINT	P	PROPERTY LINE
CU FT	CUBIC FEET	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	PR	PROPOSED
DI	DROP INLET, DUCTILE IRON	PVMT	PAVEMENT
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DMH	DRAIN MANHOLE	ROW	RIGHT-OF-WAY
E	ELECTRIC, EAST	S	SEWER, SOUTH
EA	EACH	SF	SQUARE FEET
EL	ELEVATION	SPEC	SPECIFICATIONS
EOP	EDGE OF PAVEMENT	SQ FT	SQUARE FEET
EW	EACH WAY	SS	SEWER SERVICE
EX	EXISTING	STA	STATION
FT	FEET, FOOT	SW	SIDEWALK
G	NATURAL GAS	T	TELEPHONE
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GC	GRANITE CURB	TC	TOP OF CURB
H	HIGH	TYP	TYPICAL
HC	HOUSE CONNECTION	UP	UTILITY POLE
HORZ	HORIZONTAL	VC	VITRIFIED CLAY
HP	HIGH PRESSURE	VERT	VERTICAL
HYD	FIRE HYDRANT	W	WATER, WEST, WIDE
INV	INVERT		
ID	INSIDE DIAMETER		
IP	IRON PIPE		

LEGEND

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	8" PVC SAN.	8" PVC SAN.	FENCE	X	X
WATER MAIN	W	W	INDIVIDUAL DECIDUOUS TREE	(Symbol)	(Symbol)
STORM DRAIN	D	D	INDIVIDUAL EVERGREEN TREE	(Symbol)	(Symbol)
ELECTRIC	E	E	TREE LINE	(Symbol)	(Symbol)
TELEPHONE	T	T	BUSH	(Symbol)	(Symbol)
SANITARY SEWER LATERAL	SS	SS	STUMP	(Symbol)	(Symbol)
WATER SERVICE	WS	WS	SURVEY MARKER	(Symbol)	(Symbol)
SANITARY SEWER MANHOLE	SMH	SMH	PROPERTY LINE	(Symbol)	(Symbol)
STORM DRAIN MANHOLE	DMH	DMH	EASEMENT LINE	(Symbol)	(Symbol)
ELECTRICAL MANHOLE	EMH	EMH	SPOT ELEVATIONS	x100.2	x101.5
TELEPHONE MANHOLE	TMH	TMH	CONTOUR LINES	-56-	-56-
CATCH BASIN	(Symbol)	(Symbol)	DEPRESSION CONTOUR LINES	(Symbol)	(Symbol)
HYDRANT	(Symbol)	(Symbol)	HOUSE NUMBER	#35	(Symbol)
WATER GATE	(Symbol)	(Symbol)	FLOOR ELEVATION	FL=56.7	(Symbol)
SPRINKLER HEAD	(Symbol)	(Symbol)	SILL ELEVATION	S=56.7	(Symbol)
UTILITY POLE	(Symbol)	(Symbol)	WETLAND	(Symbol)	(Symbol)
GUY POLE	(Symbol)	(Symbol)	WETLAND FLAGS	(Symbol)	(Symbol)
GUY WIRE	(Symbol)	(Symbol)	GRASS PAVERS	(Symbol)	(Symbol)
OVERHEAD WIRE	(Symbol)	(Symbol)	GUIDE RAIL	(Symbol)	(Symbol)
LIGHT POST	(Symbol)	(Symbol)	POST	(Symbol)	(Symbol)
EDGE OF PAVEMENT	(Symbol)	(Symbol)	SIGN	(Symbol)	(Symbol)
EDGE OF UNPAVED ROAD	(Symbol)	(Symbol)	BENCH MARK	(Symbol)	(Symbol)
CURB	(Symbol)	(Symbol)	TEST PIT	TP	TP-1
BERM	(Symbol)	(Symbol)	BORING	(Symbol)	(Symbol)
SIDEWALK	CONC. WALK	CONC. WALK	DRAINAGE DITCH / SWALE	(Symbol)	(Symbol)
BOULDER	(Symbol)	(Symbol)	MAILBOX	(Symbol)	(Symbol)
STONE WALL	(Symbol)	(Symbol)	FENCE	(Symbol)	(Symbol)
RETAINING WALL	(Symbol)	(Symbol)			

ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

Weston & Sampson
273 Dividend Road, Rocky Hill, CT
(860) 513-1473 (800) 5AMPSON
www.westonandsampson.com

No.	Date	Dr. By	Ch. By	App. By	Description
					A P P R O V E D
					REGISTERED PROFESSIONAL ENGINEER
					DATE

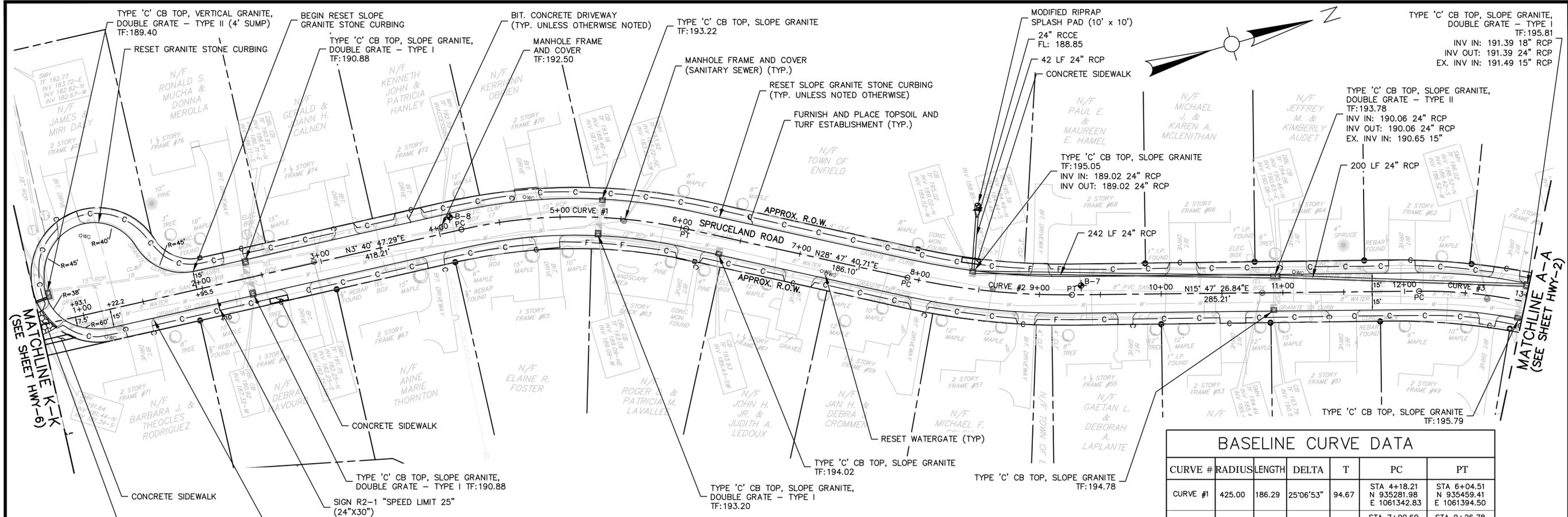
TOWN OF ENFIELD
PUBLIC WORKS

CRESCENT LAKE AREA ROAD RECONSTRUCTION

INDEX PLAN, LEGEND, AND NOTES

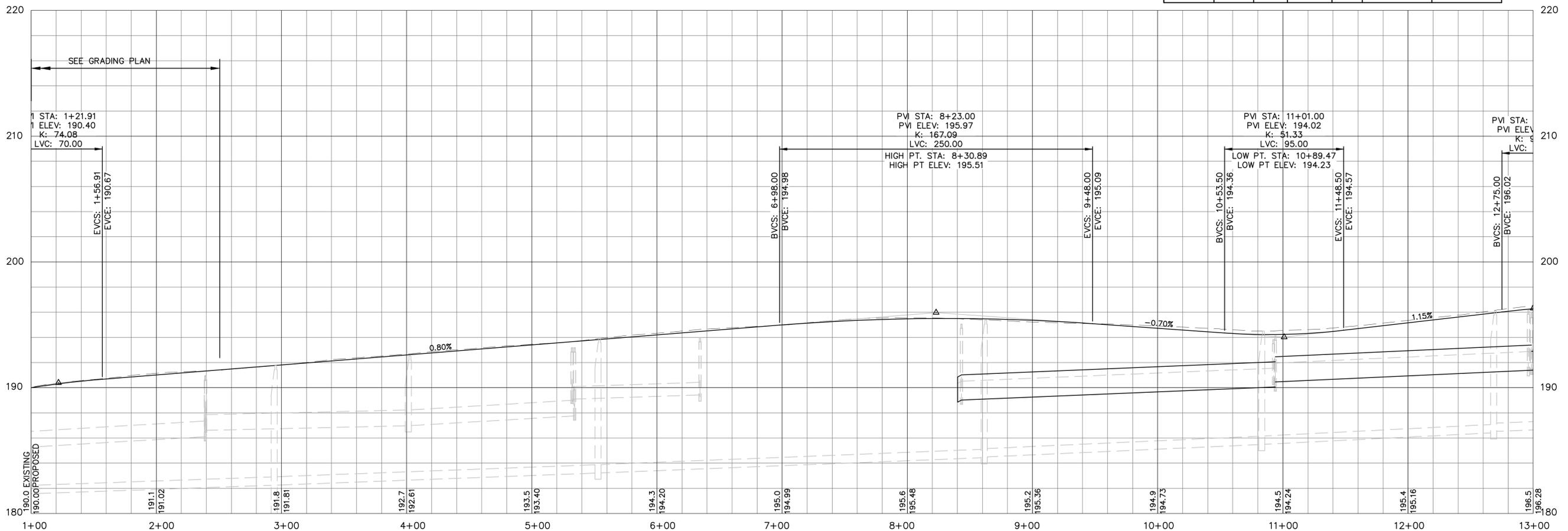
SCALE: AS SHOWN
JOB NO. 2150207
CONTRACT: 15-6
CADD NO. 15-6
FILE NO. 15-6

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PLAN
SCALE: 1"=40'

BASELINE CURVE DATA						
CURVE #	RADIUS	LENGTH	DELTA	T	PC	PT
CURVE #1	425.00	186.29	25°06'53"	94.67	STA 4+18.21 N 935281.98 E 1061342.83	STA 6+04.51 N 935459.41 E 1061394.50
CURVE #2	600.00	136.18	13°00'14"	68.38	STA 7+90.60 N 935622.50 E 1061484.14	STA 9+26.78 N 935748.23 E 1061535.68
CURVE #3	400.00	108.78	15°34'53"	54.73	STA 12+11.99 N 936022.68 E 1061613.30	STA 13+20.77 N 936122.06 E 1061656.68



CENTERLINE ROAD PROFILE
SCALE: 1"=40' HORZ, 1"=4' VERT

No.	Date	Dr. By	Ch. By	App. By	Description
A					P R O V E D
					REGISTERED PROFESSIONAL ENGINEER
					DATE

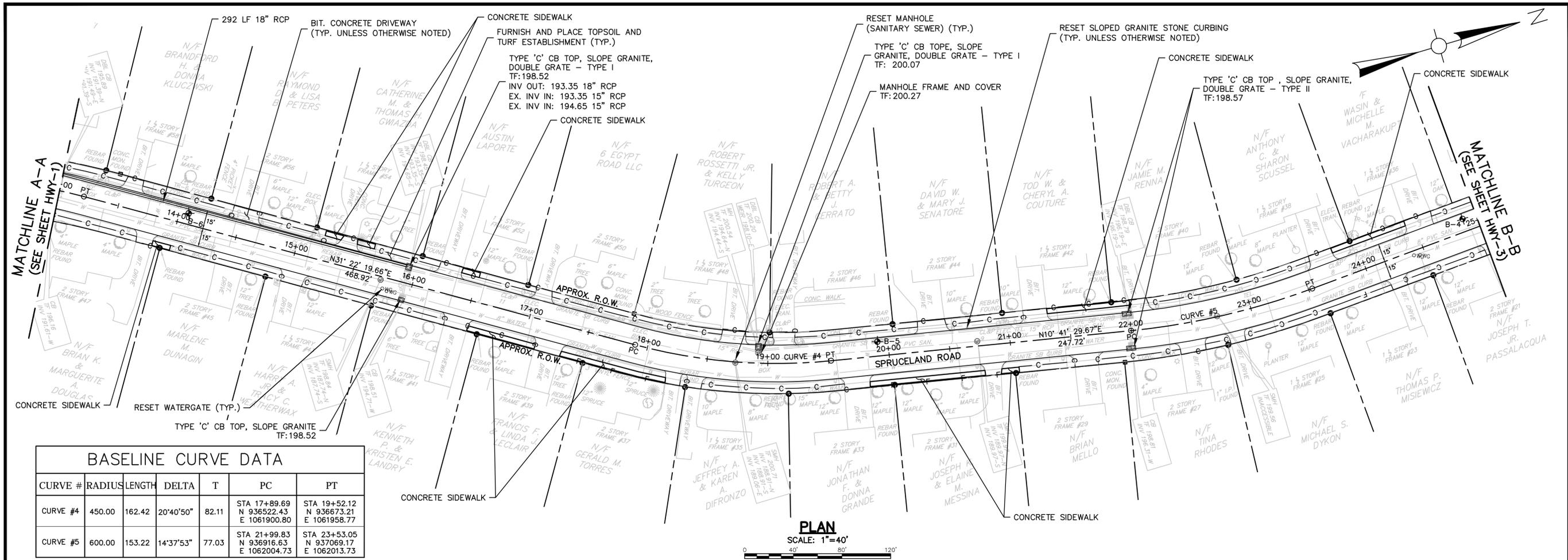
TOWN OF ENFIELD
PUBLIC WORKS

CRESCENT LAKE AREA ROAD RECONSTRUCTION
PLAN AND PROFILE
SPRUCLAND ROAD

SCALE: AS SHOWN
CONTRACT: 15-6
JOB NO.: 2150207
DR. BY: KAC
DSN. BY: LAS
CHK. BY: ALN
APP. BY: ALN

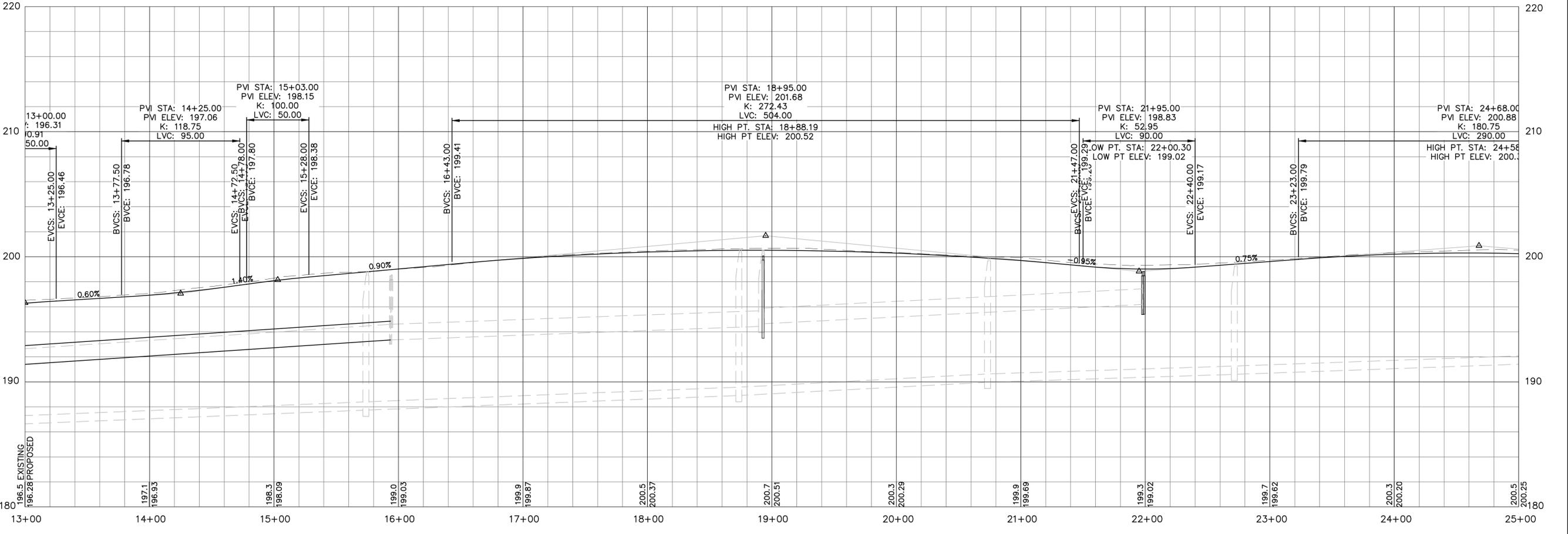
CADD NO.:
FILE NO.:
HWY-1

SHEET 24 OF 127



BASELINE CURVE DATA

CURVE #	RADIUS	LENGTH	DELTA	T	PC	PT
CURVE #4	450.00	162.42	20°40'50"	82.11	STA 17+89.69 N 935522.43 E 1061900.80	STA 19+52.12 N 936673.21 E 1061958.77
CURVE #5	600.00	153.22	14°37'53"	77.03	STA 21+99.83 N 936916.63 E 1062004.73	STA 23+53.05 N 937069.17 E 1062013.73



CENTERLINE ROAD PROFILE
SCALE: 1"=40' HORZ, 1"=4' VERT

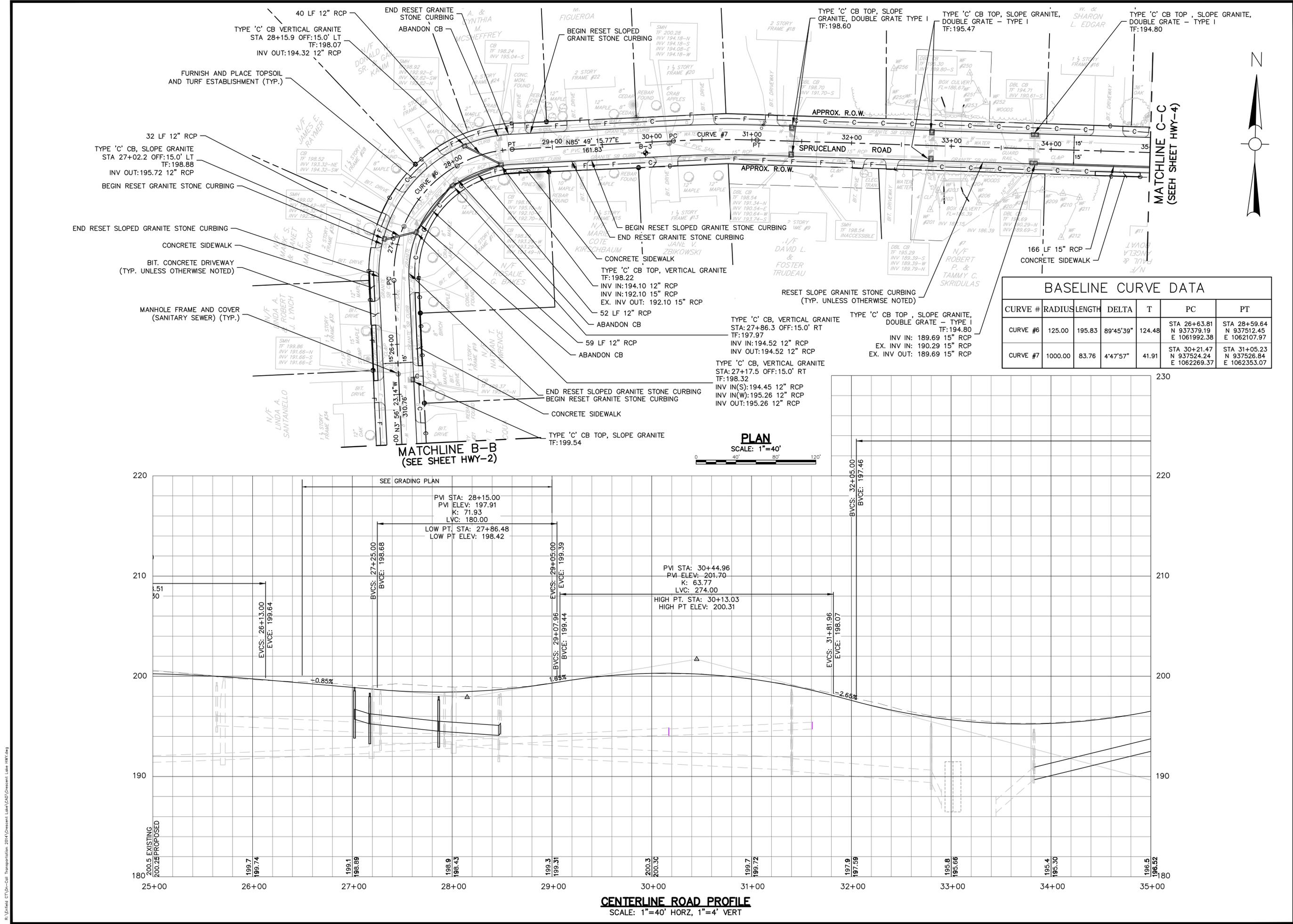
No.	Date	Dr. By	Ch. By	App. By	Description
		A	P	P	O
					V
					E
					D

REGISTERED PROFESSIONAL ENGINEER _____ DATE _____

TOWN OF ENFIELD
PUBLIC WORKS

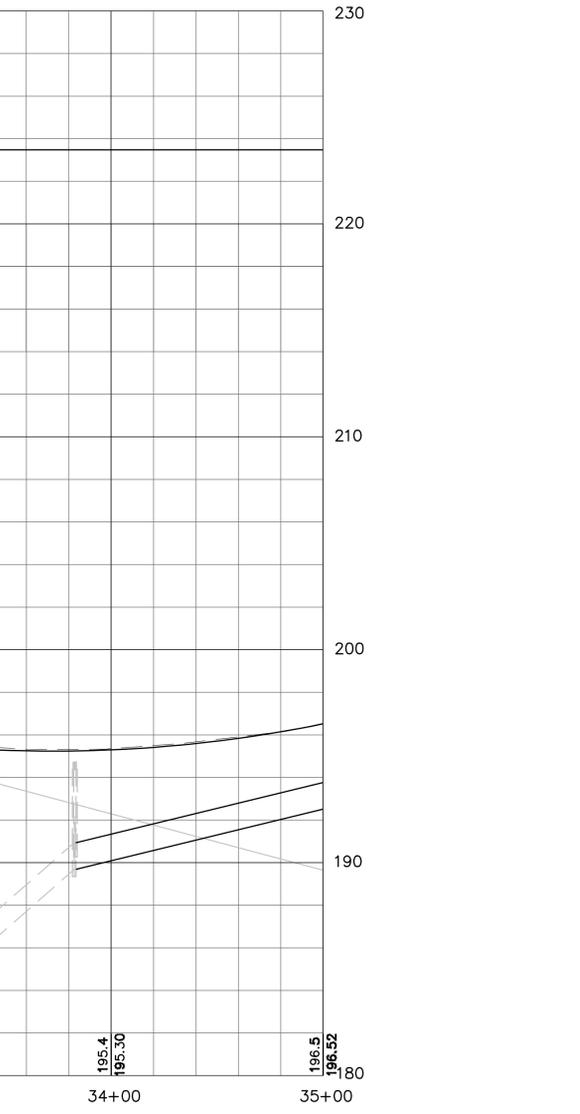
CRESCENT LAKE AREA ROAD RECONSTRUCTION
PLAN AND PROFILE
SPRUCELAND ROAD

SCALE: AS SHOWN
CONTRACT: 15-6
JOB NO.: 2150207
DR. BY: KAC
CHK. BY: LAS
APP. BY: ALN



BASELINE CURVE DATA

CURVE #	RADIUS	LENGTH	DELTA	T	PC	PT
CURVE #6	125.00	195.83	89°45'39"	124.48	STA 26+63.81 N 937379.19 E 1061992.38	STA 28+59.64 N 937512.45 E 1062107.97
CURVE #7	1000.00	83.76	4°47'57"	41.91	STA 30+21.47 N 937524.24 E 1062269.37	STA 31+05.23 N 937526.84 E 1062353.07



No.	Date	Dr. By	Ch. By	App. By	Description

REGISTERED PROFESSIONAL ENGINEER

TOWN OF ENFIELD
PUBLIC WORKS

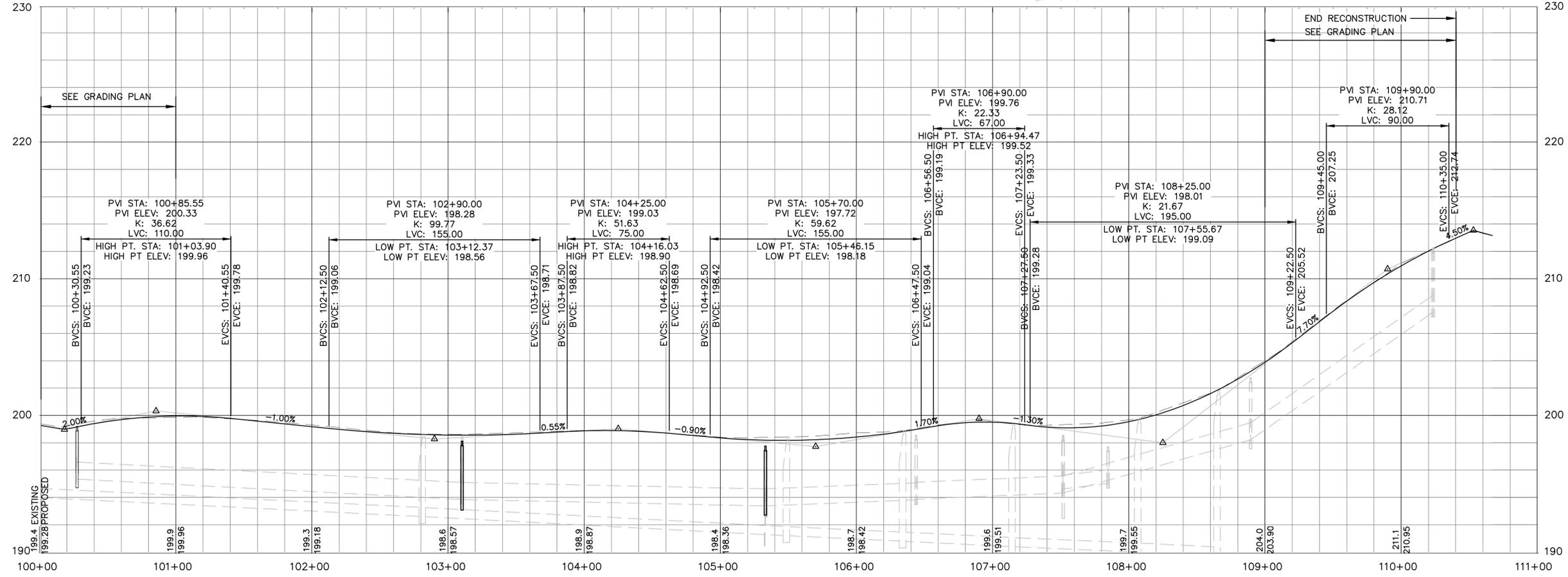
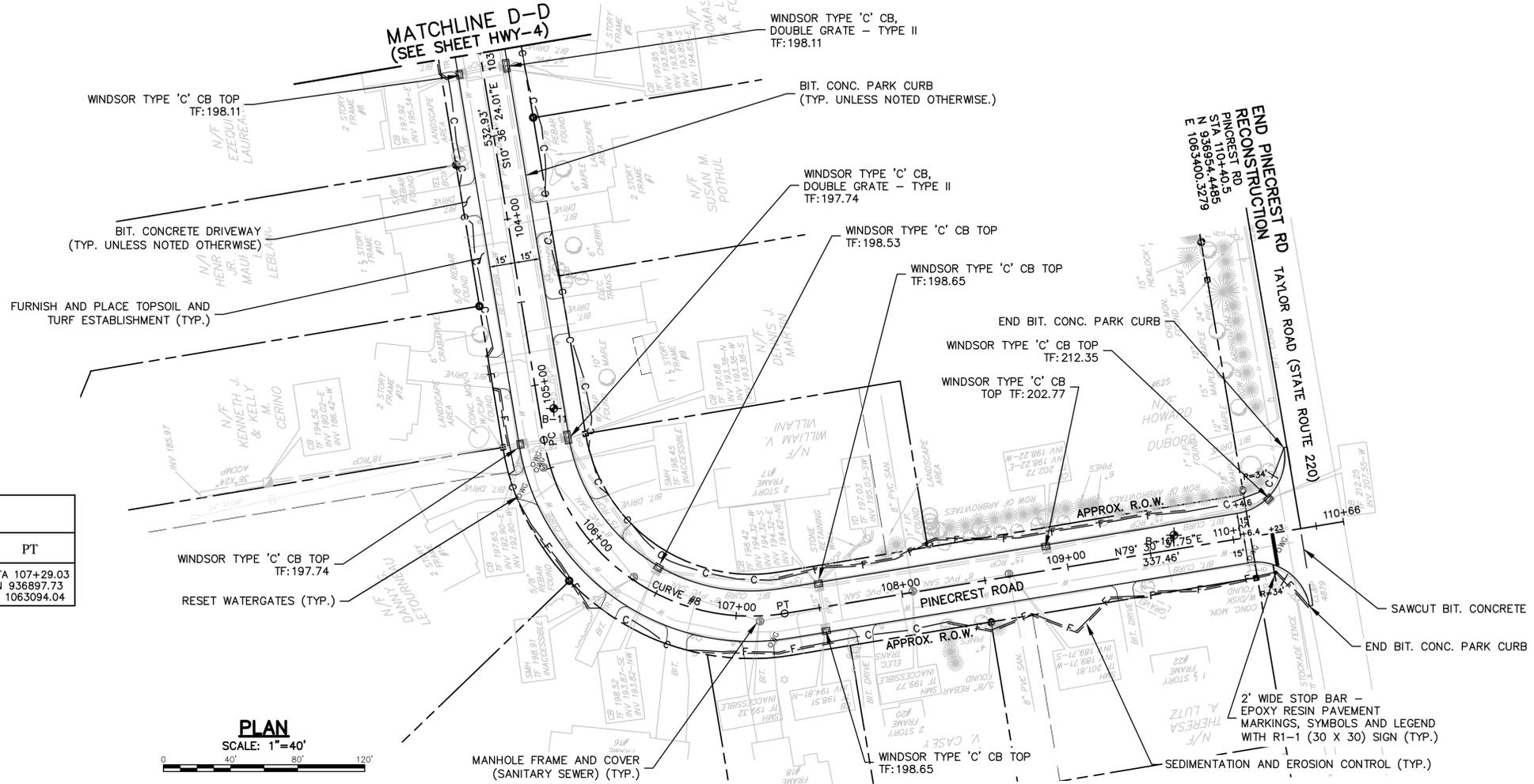
CRESCENT LAKE AREA ROAD RECONSTRUCTION
PLAN AND PROFILE
SPRUCELAND ROAD

SCALE: AS SHOWN
CONTRACT: 15-6
JOB NO.: 2150207
DR. BY: KAC
DSN. BY: LAS
CHK. BY: ALN
APP. BY: ALN

CADD NO.:
FILE NO.:
HWY-3

SHEET 26 OF 127

BASELINE CURVE DATA						
CURVE #	RADIUS	LENGTH	DELTA	T	PC	PT
CURVE #8	125.00	196.10	89°53'04"	124.75	STA 105+32.93 N 936997.63 E 1062948.41	STA 107+29.03 N 936897.73 E 1063094.04



CENTERLINE ROAD PROFILE
SCALE: 1"=40' HORZ, 1"=4' VERT

No.	Date	Dr. By	Ch. By	App. By	Description

REGISTERED PROFESSIONAL ENGINEER _____ DATE _____

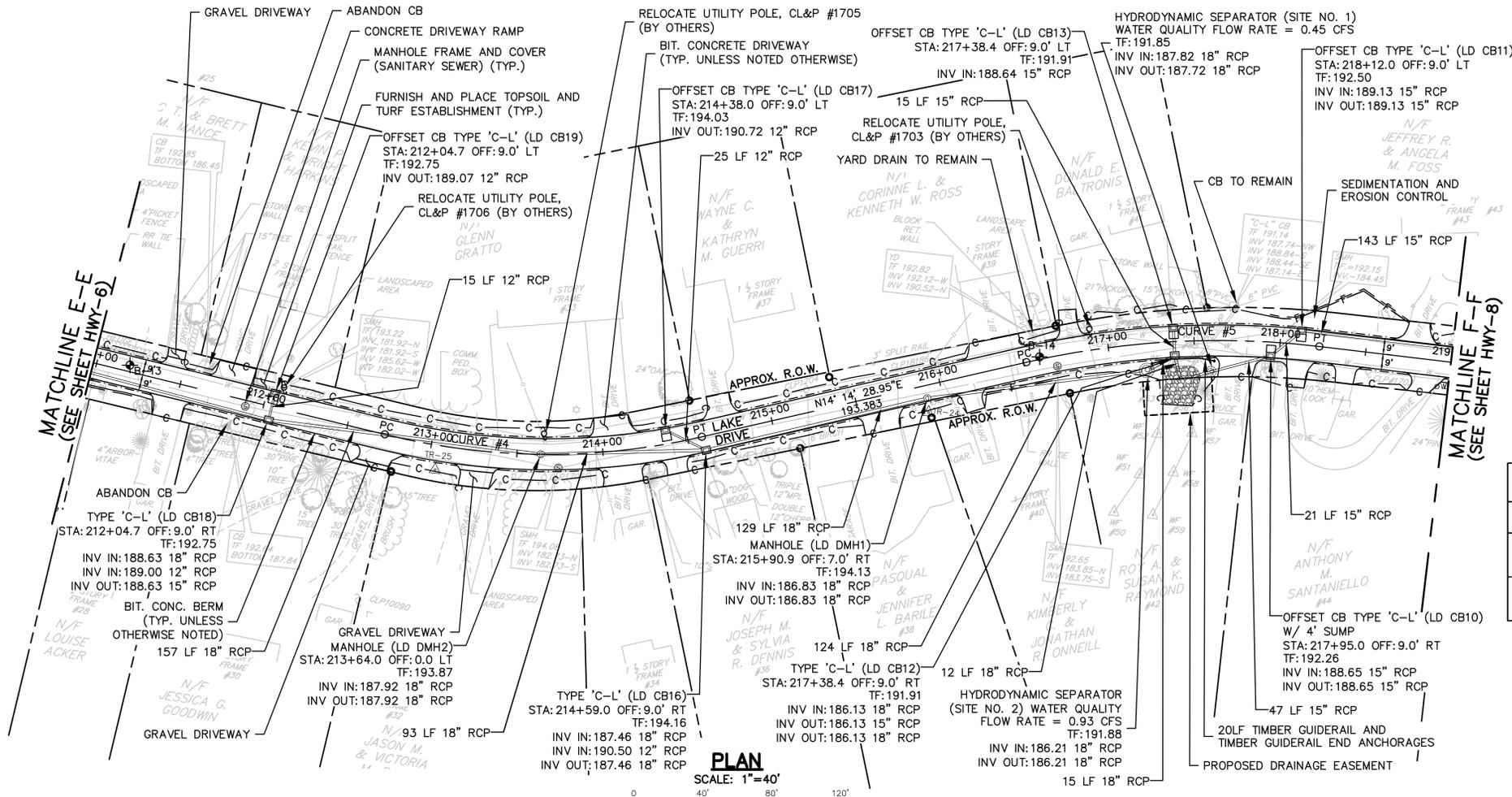
TOWN OF ENFIELD
PUBLIC WORKS

CRESCENT LAKE AREA ROAD RECONSTRUCTION
**PLAN AND PROFILE
PINECREST ROAD**

SCALE: AS SHOWN
CONTRACT: 15-6
JOB NO.: 2150207
DR. BY: KAC
DSN. BY: LAS
CHK. BY: ALN
APP. BY: ALN

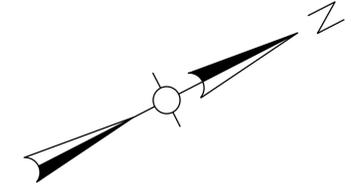
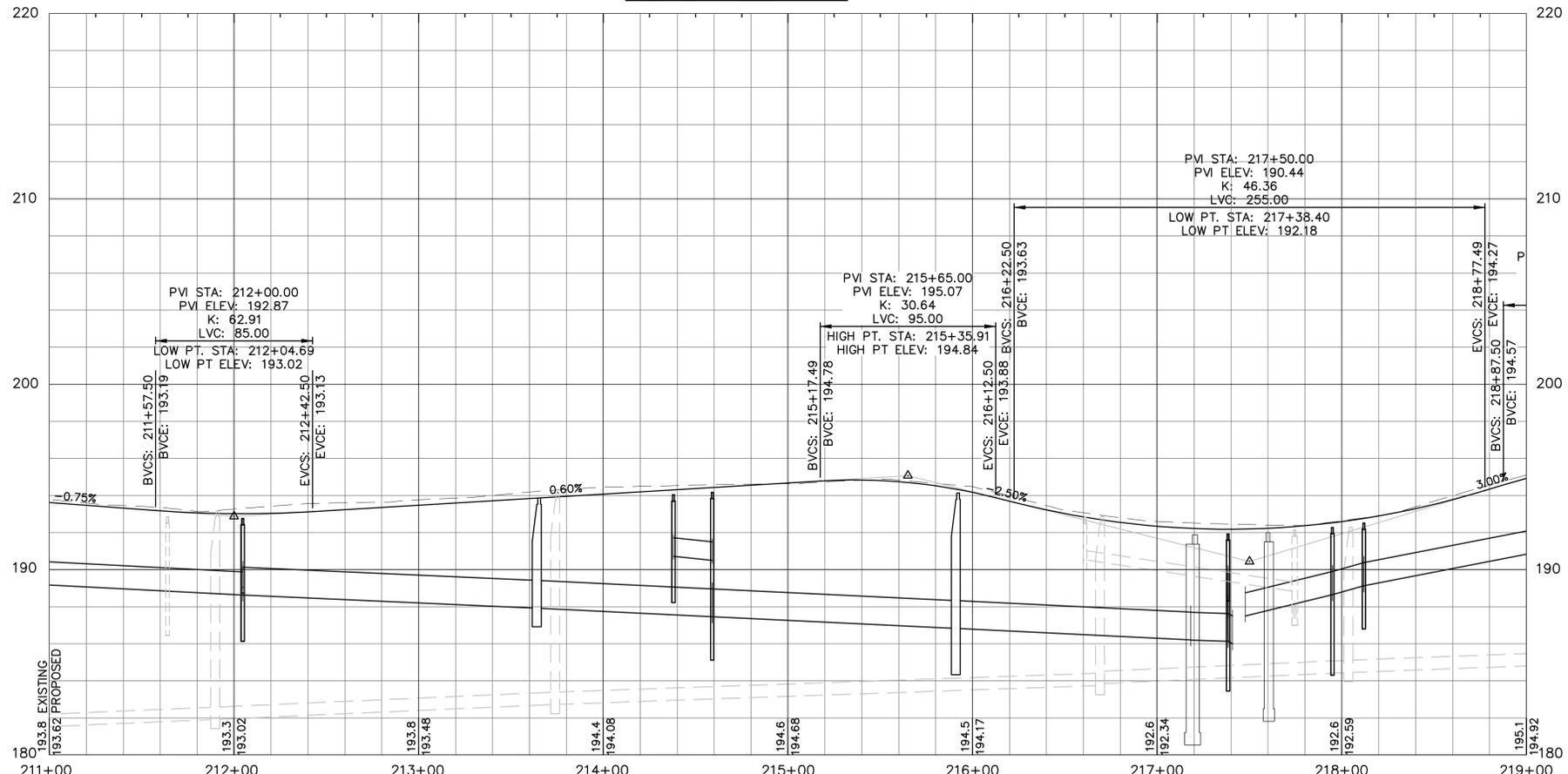
HWY-5

FILE NO. _____
SHEET 28 OF 127



BASELINE CURVE DATA

CURVE #	RADIUS	LENGTH	DELTA	T	PC	PT
CURVE #4	400.00	185.93	26°37'57"	94.68	STA 212+72.36 N 935403.21 E 1061925.98	STA 214+58.29 N 935566.57 E 1062011.23
CURVE #5	500.00	171.31	19°37'51"	86.50	STA 216+51.67 N 935754.01 E 1062058.80	STA 218+22.99 N 935909.68 E 1062128.29



No.	Date	Dr. By	Ch. By	App. By	Description

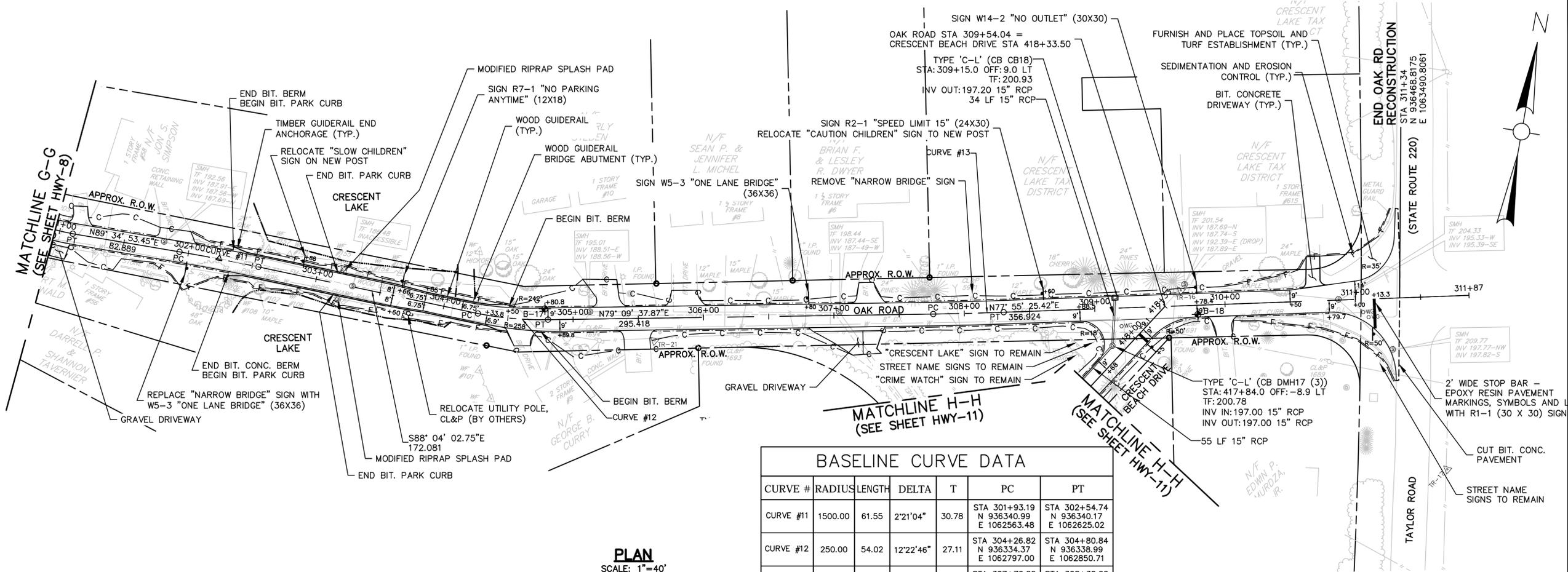
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TOWN OF ENFIELD
PUBLIC WORKS

CRESCENT LAKE AREA ROAD RECONSTRUCTION

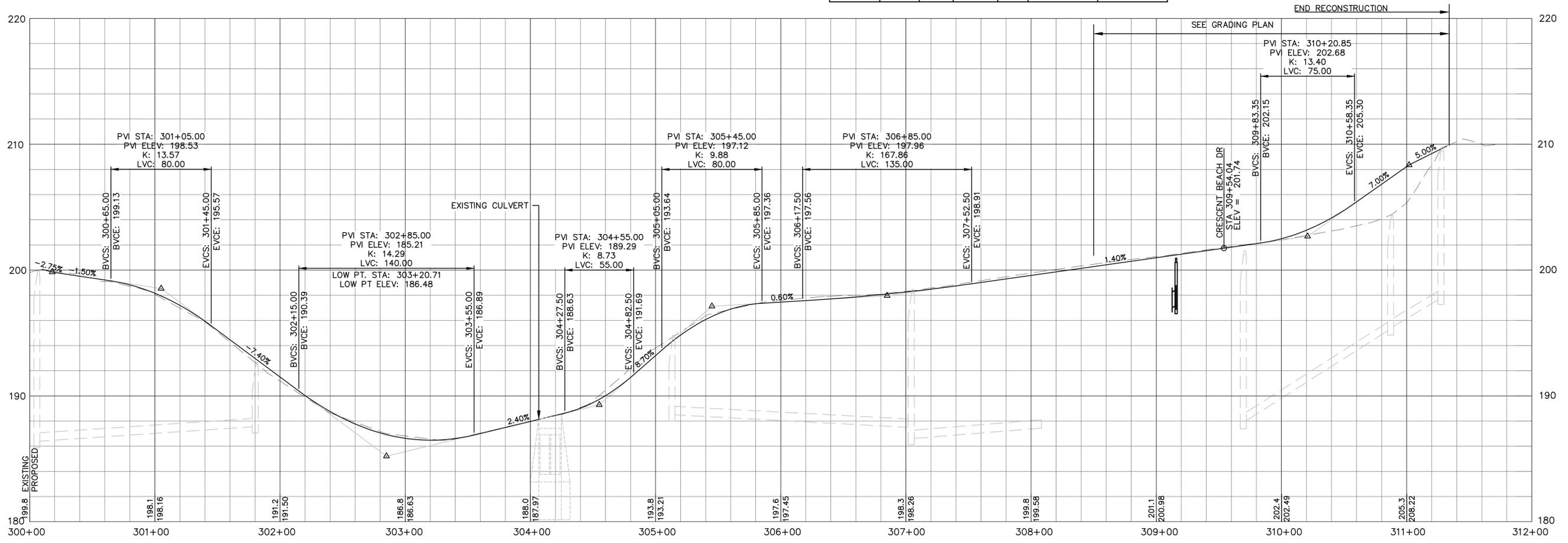
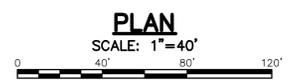
**PLAN AND PROFILE
LAKE DRIVE**

CADD NO. _____
SCALE: AS SHOWN
CONTRACT: 15-6
JOB NO. 2150207
DR. BY: KAC
DSN. BY: LAS
CHK. BY: ALN
APP. BY: ALN



BASELINE CURVE DATA

CURVE #	RADIUS	LENGTH	DELTA	T	PC	PT
CURVE #11	1500.00	61.55	2°21'04"	30.78	STA 301+93.19 N 936340.99 E 1062563.48	STA 302+54.74 N 936340.17 E 1062625.02
CURVE #12	250.00	54.02	12°22'46"	27.11	STA 304+26.82 N 936334.37 E 1062797.00	STA 304+80.84 N 936338.99 E 1062850.71
CURVE #13	2500.00	53.97	11°4'12"	26.98	STA 307+76.26 N 936394.54 E 1063140.86	STA 308+30.22 N 936405.26 E 1063193.75



CENTERLINE ROAD PROFILE
SCALE: 1"=40' HORZ, 1"=4' VERT

Weston & Sampson
273 Dividend Road, Rocky Hill, CT
(860) 513-1473 (800) 541-5000
www.westonandsampson.com

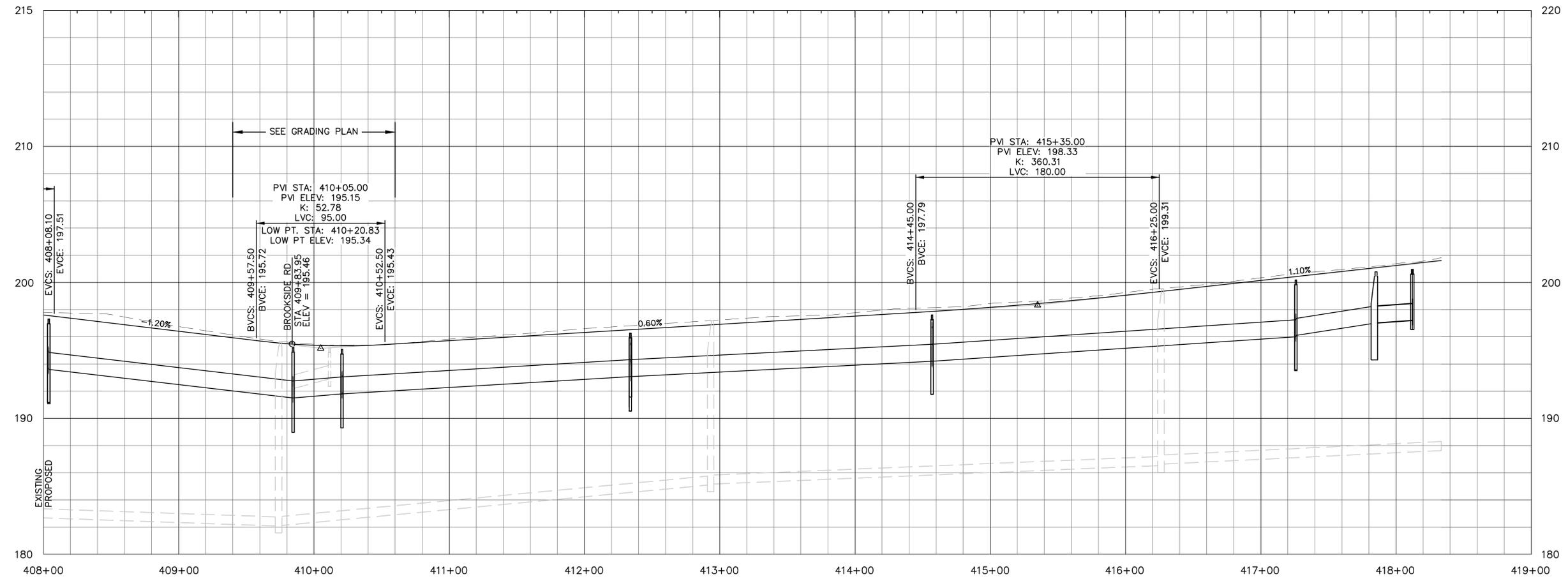
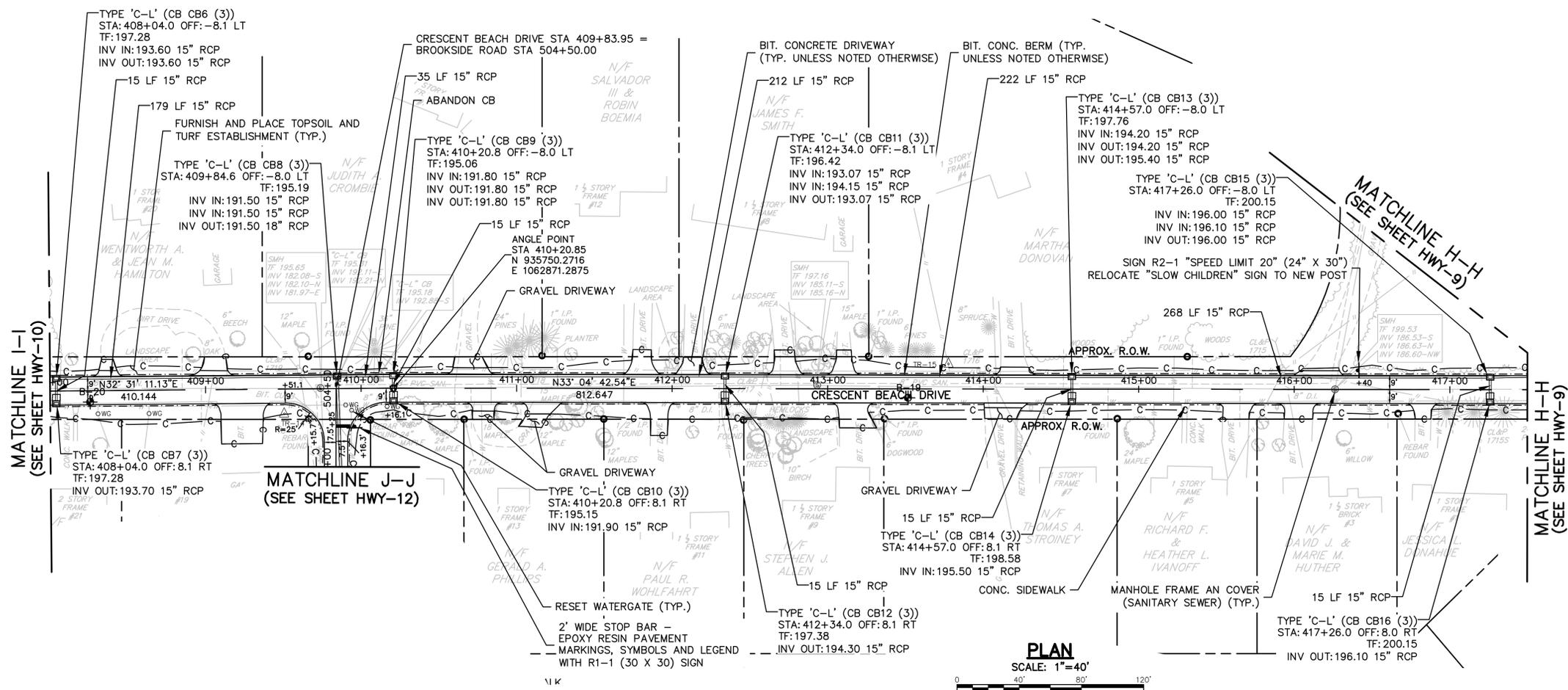
No.	Date	Dr. By	Ch. By	App. By	Description

REGISTERED PROFESSIONAL ENGINEER
DATE

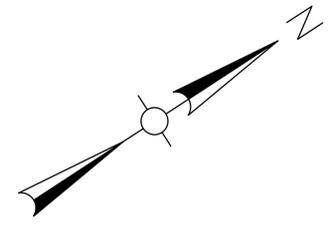
TOWN OF ENFIELD
PUBLIC WORKS
CRESCENT LAKE AREA ROAD RECONSTRUCTION
**PLAN AND PROFILE
OAK ROAD**

SCALE: AS SHOWN
CONTRACT: 15-6
JOB NO.: 2150207
DR. BY: KAC
DSN. BY: LAS
CHK. BY: ALN
APP. BY: ALN

HWY-9
FILE NO.:
SHEET 32 OF 127



CENTERLINE ROAD PROFILE
SCALE: 1"=40' HORZ, 1"=4' VERT

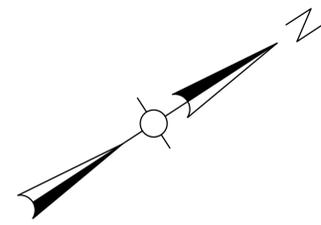


No.	Date	Dr. By	Ch. By	App. By	Description
1					A P P R O V E D
					REGISTERED PROFESSIONAL ENGINEER
					DATE

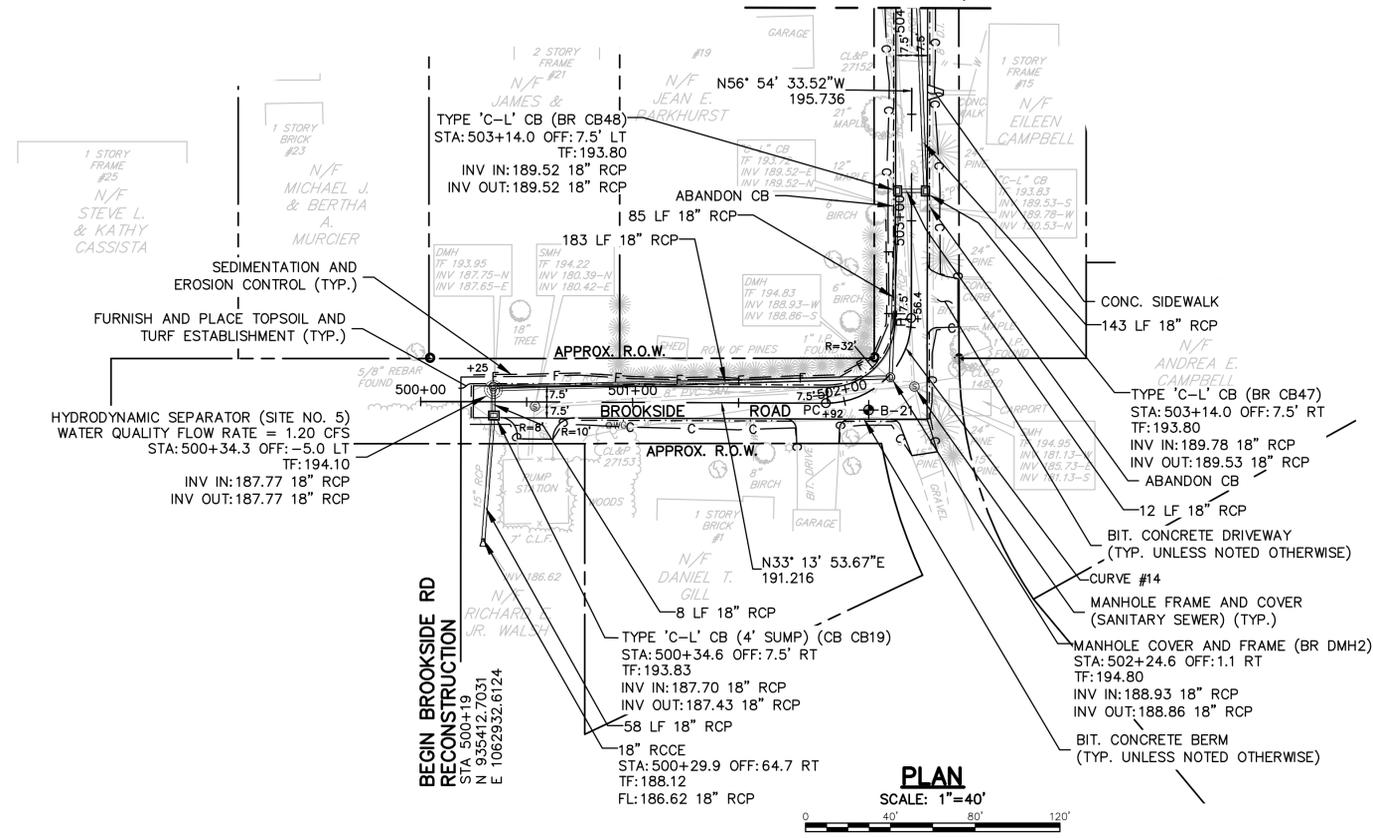
TOWN OF ENFIELD
PUBLIC WORKS

CRESCENT LAKE AREA ROAD RECONSTRUCTION	DR. BY	CHK. BY	APP. BY
PLAN AND PROFILE	KAC	LAS	ALN
CRESCENT BEACH DRIVE	CONTRACT	SCALE	FILE NO.
	15-6	AS SHOWN	
	JOB NO.	DSN. BY	DATE
	2150207	KAC	

HWY-11

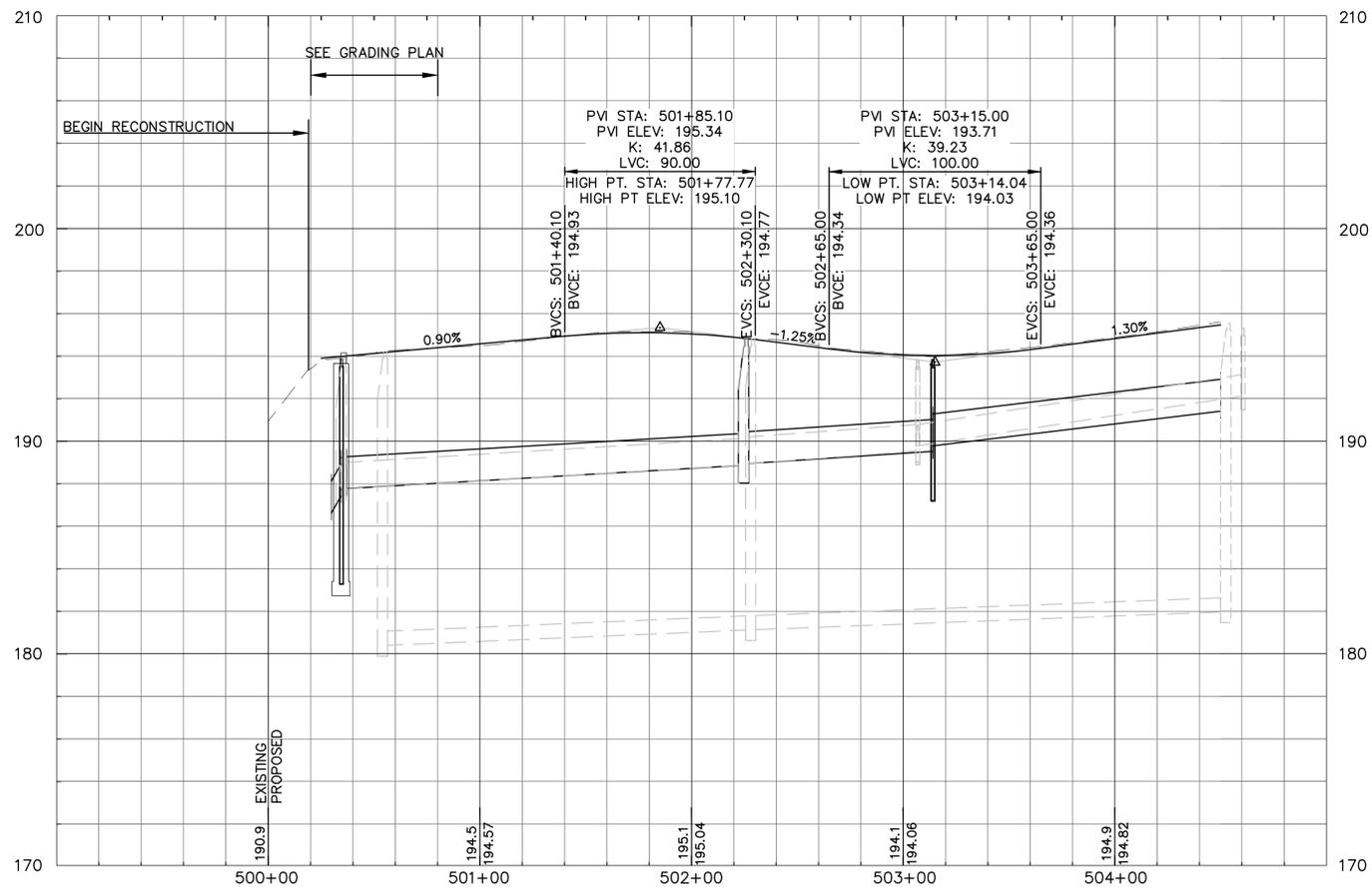
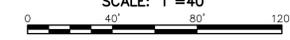


**MATCHLINE J-J
 (SEE SHEET HWY-11)**



BASELINE CURVE DATA						
CURVE #	RADIUS	LENGTH	DELTA	T	PC	PT
CURVE #14	40.00	63.05	90°18'37"	40.22	STA 501+91.22 N 935556.76 E 1063026.99	STA 502+54.26 N 935612.29 E 1063015.44

**PLAN
 SCALE: 1"=40'**



**CENTERLINE ROAD PROFILE
 SCALE: 1"=40' HORZ, 1"=4' VERT**

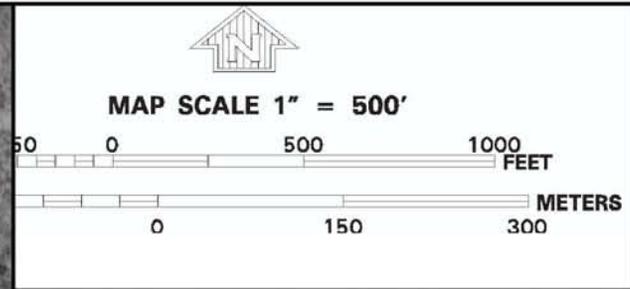
No.	Date	Dr. By	Ch. By	App. By	Description
		A	P	R	O
					V
					E
					D
					DATE

TOWN OF ENFIELD
 PUBLIC WORKS
 CRESCENT LAKE AREA ROAD RECONSTRUCTION
**PLAN AND PROFILE
 BROOKSIDE ROAD**
 CADD NO. - AS SHOWN
 SCALE: - AS SHOWN
 CONTRACT: 15-6
 JOB NO. 2150207
 DR. BY: KAC
 DSN. BY: LAS
 CHK. BY: ALN
 APP. BY: ALN

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APPENDIX B:
Copy of General Permit

APPENDIX C:
Additional Data and Sample Forms



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0117F

FIRM
FLOOD INSURANCE RATE MAP
 HARTFORD COUNTY,
 CONNECTICUT
 (ALL JURISDICTIONS)

PANEL 117 OF 675
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ENFIELD, TOWN OF	090028	0117	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
09003C0117F

EFFECTIVE DATE:
SEPTEMBER 26, 2008

Federal Emergency Management Agency

705000 M

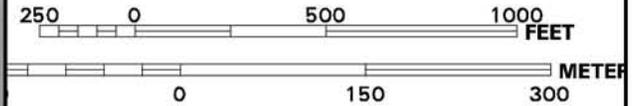
JOINS PANEL 0119

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

JOINS PANEL



MAP SCALE 1" = 500'



NFP

PANEL 0119F

FIRM
FLOOD INSURANCE RATE MAP
 HARTFORD COUNTY,
 CONNECTICUT
 (ALL JURISDICTIONS)

PANEL 119 OF 675

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ENFIELD, TOWN OF	090028	0119	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
09003C0119F

EFFECTIVE DATE:
SEPTEMBER 26, 2008

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Natural Diversity Data Base Areas

ENFIELD, 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.

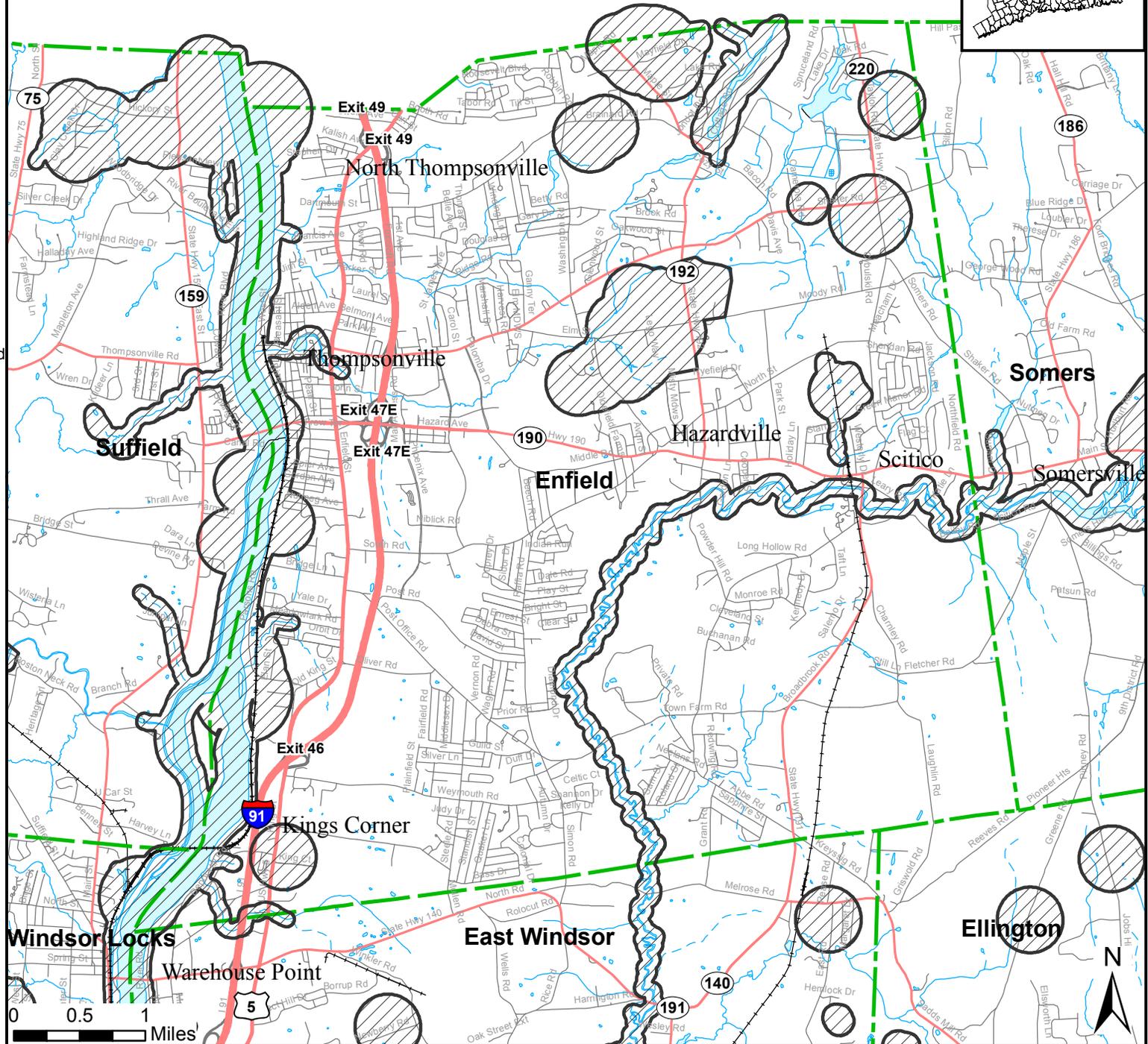
www.ct.gov/deep/nddbrequest

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





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

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

SITE INFORMATION

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

SAMPLING INFORMATION (Submit a separate form for each outfall)

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

MONITORING RESULTS

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

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

Avg = _____

STATEMENT OF ACKNOWLEDGMENT

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

Authorized Official: _____
 Signature: _____ Date: _____

Please send completed form to:

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