SUBSET 03 - HIGHWAY
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
INX-01	INDEX OF DRAWINGS		
GNO-01	GENERAL NOTES		
TYP-01 - TYP-02	TYPICAL ROADWAY SECTIONS 1 & 2		
MDS-01 - MDS-03	MISCELLANEOUS DETAILS 1 - 3		
IGP-01	INTERSECTION GRADING PLAN		
BOR-01	BORING LOGS		
PLN-01 - PLN-02	ROADWAY PLAN 1 & 2		
PRO-01	ROADWAY PROFILE ROUTE 34 EASTBOUND		
PRO-02	ROADWAY PROFILE ROUTE 34 WESTBOUND		
PRO-03	ROADWAY PROFILE BALDWIN ROAD		
XSC-01 - XSC-03	CROSS SECTIONS ROUTE 34 EASTBOUND		
XSC-04 - XSC-08	CROSS SECTIONS ROUTE 34 WESTBOUND		
XSC-09 - XSC-11	CROSS SECTIONS BALDWIN ROAD		

DESIGNED BY:

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Bright People. Right Solutions.
200 CORPORATE PLACE
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Roger Krahn
2018.07.27
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Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **N. MORGAN**
CHECKED BY: **R. KRAHN**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.01-HW-MSH_106_126_Highway Index.dgn

SIGNATURE/ BLOCK:
Kleinfelder
200 Corporate Place,
Suite 310
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PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

CITY/TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
INDEX OF HIGHWAY DRAWINGS

PROJECT NO. **106-126**
DRAWING NO. **INX-01**
SHEET NO. **03.01**

GENERAL CONSTRUCTION NOTES:

1. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER AND APPLICABLE UTILITY COMPANY IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.

2. PRIOR TO BEGINNING WORK THE CONTRACTOR'S SURVEYOR SHALL TIE OFF ANY EXISTING CITY OR STATE MONUMENTATION WITHIN THE PROJECT AREA. A MINIMUM OF THREE TIES PER MONUMENT SHALL BE USED. THE SURVEYOR SHALL SUBMIT THIS INFORMATION TO THE ENGINEER AT LEAST TWO WEEKS BEFORE CONSTRUCTION COMMENCES. ANY DISTURBANCE TO THE MONUMENTATION WHICH OCCURS AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

3. THE CONTRACTOR SHALL CONFIRM LIMITS OF IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.

4. STAGING AREAS AND MATERIAL STOCK PILES SHALL BE LIMITED WITHIN THE SITE AND LOCATED SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC. THE CONTRACTOR SHALL PROVIDE SAFETY DEVICES (IF ORDERED BY THE CITY OR STATE) TO PROTECT STOCK PILES OR WORK STAGING AREAS. IF THIS WORK IS SO ORDERED, THERE WILL BE NO ADDITIONAL COMPENSATION MADE TO THE CONTRACTOR.

5. ALL DISTURBED AREAS NOT OTHERWISE INDICATED IN THE CONTRACT DRAWINGS SHALL BE TOPSOILED AND ESTABLISHED WITH TURF, AS DIRECTED BY THE ENGINEER.

6. THE LOCATION OF EXISTING UTILITIES HAS BEEN OBTAINED FROM FIELD SURVEY AND RECORDED PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THESE LOCATIONS AND ELEVATIONS AND TAKING ALL NECESSARY STEPS TO SUPPORT AND PROTECT THEM FROM DAMAGE. ANY UTILITY LINE OR EQUIPMENT THAT IS DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED BY THE CONTROLLING UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION.

8. ROCK IN TRENCH SHALL BE MECHANICALLY EXCAVATED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

UTILITY COMPANIES:

1. CABLEVISION OF LITCHFIELD, INC.
2. LIGHTOWER FIBER NETWORKS
3. LEVEL 3 COMMUNCATIONS, L.L.C. (WILTEL)
4. SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY
5. THE SOUTHERN CONNECTICUT GAS COMPANY
6. THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY (FRONTIER COMMUNCATIONS OF CONNECTICUT)
7. THE UNITED ILLUMINATING COMPANY

SURVEY NOTES:

1.) SURVEY BY DISTRICT3 SURVEYS, SEPTEMBER 2015
2.) FIELD BOOKS: 173M322A PG.65-72
3.) 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N. A. D. 1983
4.) VERTICAL DATUM BASED ON NGVD 1929
5.) UNDERGROUND UTILITIES SHOWN ARE BASED ON FIELD INVESTIGATION AND COMPANY RECORDS, LOCATIONS ARE APPROXIMATE.

   GAS.....SOUTHERN CONNECTICUT GAS COMPANY
   WATER.....SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY
   ELECTRIC...UNITED ILLUMINATING CO.
   COMMUNICATIONS.....WILTEL

6.) LAST REVISION NO. 8, DATED 06-04-2018.

GENERAL GRADING AND DRAINAGE NOTES:

1. UNLESS OTHERWISE NOTED, ALL PROPOSED SIDEWALKS, DRIVEWAYS, AND OTHER IMPROVEMENTS SHALL BE INSTALLED TO MATCH EXISTING GRADES AT THE LIMITS OF CONSTRUCTION. GRADING PERFORMED IN ACCORDANCE WITH PROPOSED IMPROVEMENTS SHALL NOT RESULT IN PONDING OF STORM WATER OR NEGATIVELY IMPACT EXISTING DRAINAGE PATTERNS.

2. RIM OR FRAME ELEVATIONS OF ALL UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED PAVED SURFACES. PRIVATE UTILITIES WHO ARE RESPONSIBLE FOR ADJUSTING THEIR OWN STRUCTURES SHALL BE NOTIFIED 3 WEEKS IN ADVANCE BY THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE THESE PRIVATE UTILITIES WITH OFFSETS AND GRADE POINT FOR USE IN ADJUSTING THE STRUCTURES TO PROPOSED GRADE.

3. CONTRACTOR SHALL VERIFY THE CONDITION OF ALL DRAINAGE STRUCTURES PRIOR TO THE START OF CONSTRUCTION.

4. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO FINAL WORK INSTALLATION. BRING ANY DISCREPANCIES TO THE ENGINEER'S IMMEDIATE ATTENTION.

5. CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT OF UTILITIES IN A METHOD ACCEPTABLE TO THE OWNER OF THE UTILITY FOR WORK RELATED TO THE INSTALLATION OF DRAINAGE STRUCTURES AND PIPING. THIS WORK WILL NOT BE MEASURED FOR PAYMENT.

6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PROPER STORM DRAINAGE FLOWS ARE MAINTAINED THROUGHOUT CONSTRUCTION.

7. EROSION CONTROL MATTING SHALL BE INSTALLED ON 2:1 FILL SLOPES AS DIRECTED BY THE ENGINEER. USE CLASS 1, TYPE D.

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Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**
CHECKED BY: **R. KRAHN**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.02-HW-MSH_106_126_General Notes.dgn

SIGNATURE/ BLOCK:

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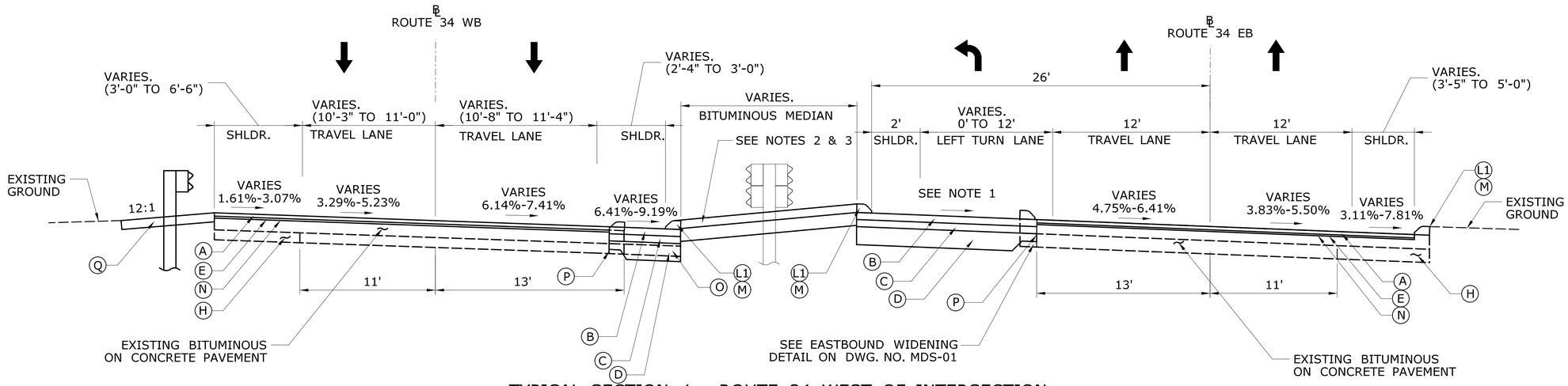
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

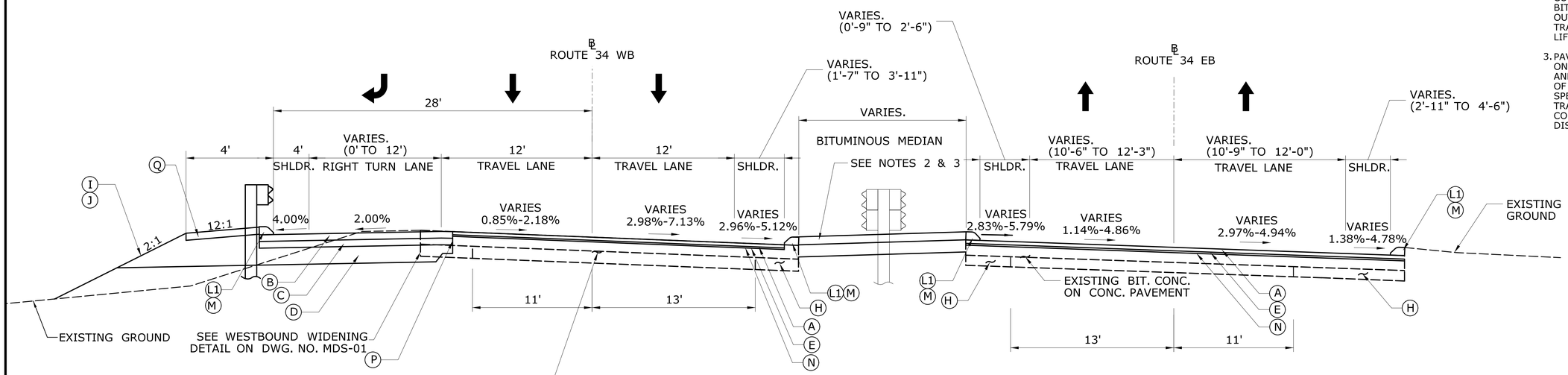
DRAWING TITLE:
GENERAL NOTES

PROJECT NO. **106-126**
DRAWING NO. **GNO-01**
SHEET NO. **03.02**



TYPICAL SECTION 1 - ROUTE 34 WEST OF INTERSECTION

EASTBOUND STA. 102+02 TO STA. 106+67
WESTBOUND STA. 202+03 TO STA. 206+78
N.T.S.



TYPICAL SECTION 2 - ROUTE 34 EAST OF INTERSECTION

EASTBOUND STA. 106+67 TO STA. 107+68
WESTBOUND STA. 206+78 TO STA. 211+89
N.T.S.

LEGEND

- (A) 2" PMA S0.5 TRAFFIC LEVEL 3
- (B) 4" PMA S0.5 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
- (C) 6" HMA S1 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
- (D) 10" SUBBASE
- (E) 1" HMA S0.25 TRAFFIC LEVEL 2
- (F) 4" PMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS)
- (G) 6" PROCESSED AGGREGATE BASE
- (H) EXISTING SUBBASE
- (I) TURF ESTABLISHMENT
- (J) 4" TOPSOIL
- (K) POINT OF APPLICATION OF GRADE
- (L1) BITUMINOUS CONCRETE PARK CURBING
- (L2) BITUMINOUS CONCRETE LIP CURBING
- (M) REMOVE EXISTING BITUMINOUS CURBING
- (N) 3" FINE MILLING OF BITUMINOUS CONCRETE (0" TO 4")
- (O) REMOVE EXISTING PAVEMENT
- (P) CUT BITUMINOUS CONCRETE PAVEMENT
- (Q) 6" PROCESSED AGGREGATE BASE

NOTES:

1. PROPOSED CROSS SLOPES SHALL MATCH EXISTING CROSS SLOPES AS SHOWN.
2. CONSTRUCT MEDIAN PER GRADING PLAN LOCATED IN SECTION 18.03 OF THE CONTRACT SPECIAL PROVISIONS. REPLACE BITUMINOUS CONCRETE CLASS 2 CALLED OUT IN SECTION 18.03 WITH 4" HMA S0.375 TRAFFIC LEVEL 1 (PLACED IN TWO EQUAL LIFTS).
3. PAVE THE MEDIAN TO THE LIMITS SHOWN ON ROADWAY PLAN 1, WITH 4" HMA S0.375 AND 6" SUBBASE. THE 2" REVEAL AT EDGE OF ROADWAY, ON SECTION 18.03 OF THE SPECIAL PROVISIONS SHALL BE TRANSITIONED TO THE 4" BITUMINOUS CONCRETE PARK CURB REVEAL, OVER A DISTANCE OF 6' MAX.

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CHECKED BY: **R. KRAHN**
SCALE AS NOTED

STATE OF CONNECTICUT
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Rocky Hill, CT 06067

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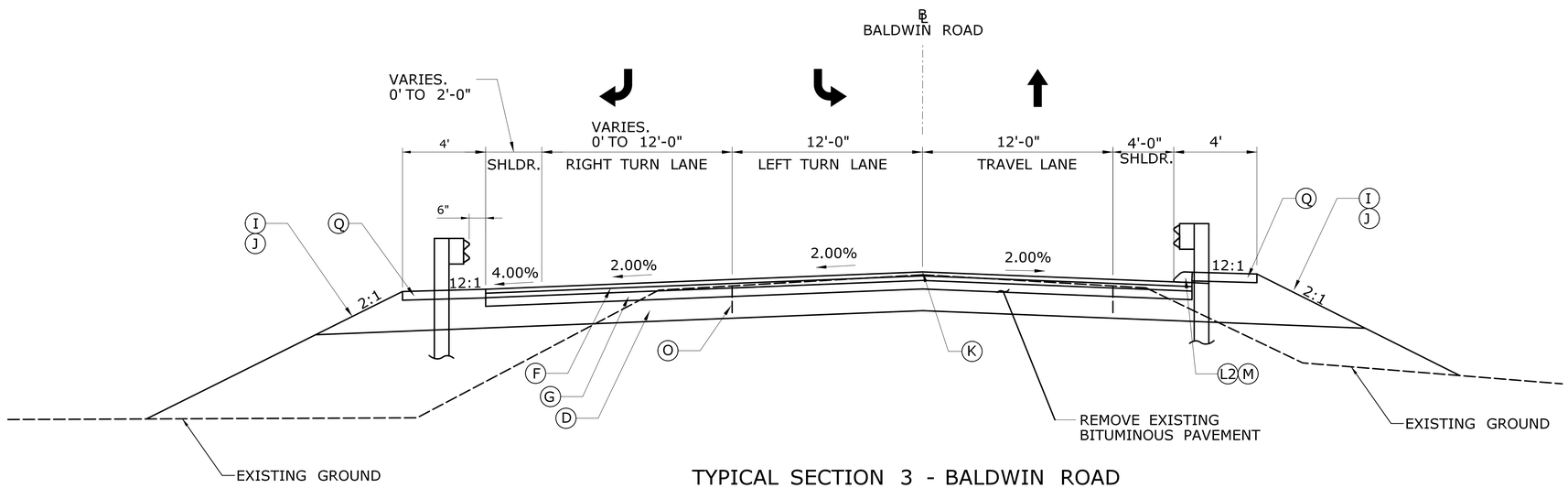
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
TYPICAL ROADWAY SECTIONS 1

PROJECT NO. **106-126**
DRAWING NO. **TYP-01**
SHEET NO. **03.03**



TYPICAL SECTION 3 - BALDWIN ROAD

STA. 50+44.30 TO STA. 53+80
N.T.S.

LEGEND

- (A) 2" PMA S0.5 TRAFFIC LEVEL 3
- (B) 4" PMA S0.5 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
- (C) 6" HMA S1 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
- (D) 10" SUBBASE
- (E) 1" HMA S0.25 TRAFFIC LEVEL 2
- (F) 4" PMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS)
- (G) 6" PROCESSED AGGREGATE BASE
- (H) EXISTING SUBBASE
- (I) TURF ESTABLISHMENT
- (J) 4" TOPSOIL
- (K) POINT OF APPLICATION OF GRADE
- (L1) BITUMINOUS CONCRETE PARK CURBING
- (L2) BITUMINOUS CONCRETE LIP CURBING
- (M) REMOVE EXISTING BITUMINOUS CURBING
- (N) 3" FINE MILLING OF BITUMINOUS CONCRETE (0" TO 4")
- (O) REMOVE EXISTING PAVEMENT
- (P) CUT BITUMINOUS CONCRETE PAVEMENT
- (Q) 6" PROCESSED AGGREGATE BASE

NOTES:

1. SEE ROADWAY PLAN FOR METAL BEAM RAIL LOCATIONS.
2. SEE BALDWIN ROAD CUT SECTION DETAIL ON DWG. NO. MDS-01.

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CHECKED BY: **R. KRAHN**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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200 Corporate Place,
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Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
TYPICAL ROADWAY SECTIONS 2

PROJECT NO. **106-126**
DRAWING NO. **TYP-02**
SHEET NO. **03.04**

LEGEND

- (A) 2" PMA S0.5 TRAFFIC LEVEL 3
- (B) 4" PMA S0.5 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
- (C) 6" HMA S1 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
- (D) 10" SUBBASE
- (E) 1" HMA S0.25 TRAFFIC LEVEL 2
- (F) 4" PMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS)
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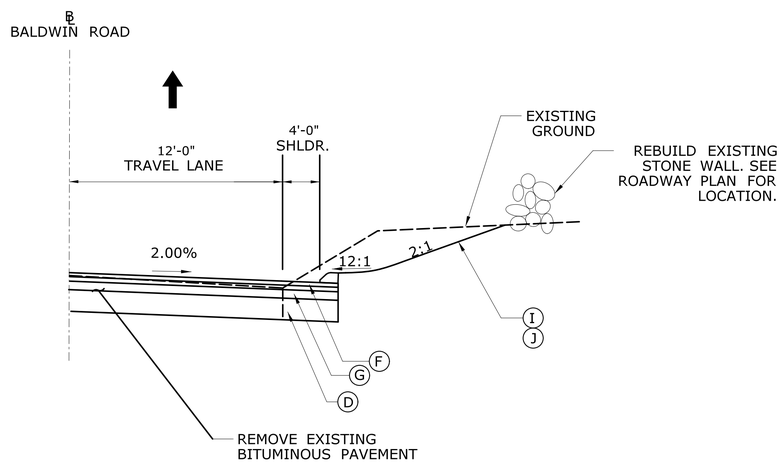
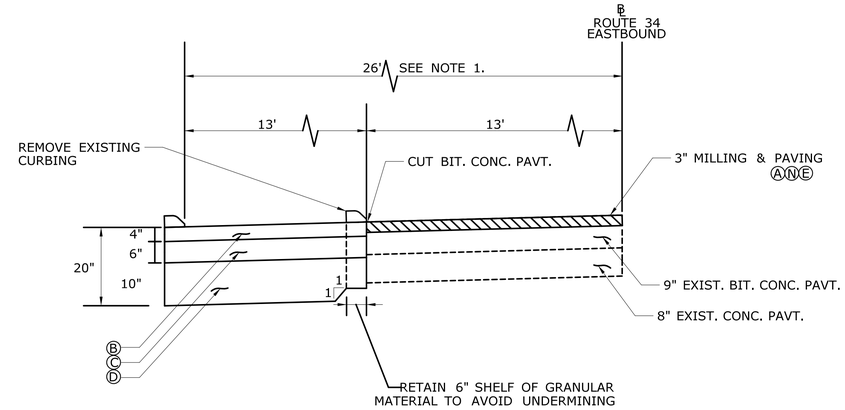


BALDWIN ROAD CUT SECTION DETAIL

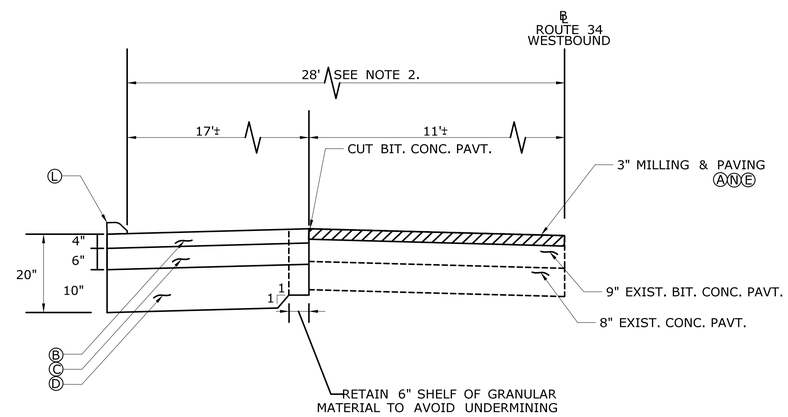
STA. 52+08± TO STA. 53+68±
N.T.S.

SEE SPECIAL PROVISION "REMOVE AND REBUILD EXISTING STONE WALL."



WIDENING DETAIL - RTE. 34 EASTBOUND LEFT TURN LANE

N.T.S.



WIDENING DETAIL - RTE. 34 WESTBOUND RIGHT TURN LANE

N.T.S.

NOTES:

1. WIDTH DIMENSIONS VARY AT BEGINNING OF LEFT LANE TAPER. MAX. PROPOSED WIDTH IS 26'.
2. WIDTH DIMENSIONS VARY AT BEGINNING OF RIGHT LANE TAPER. MAX. PROPOSED WIDTH IS 28'.
3. 13' WIDTH OF EXISTING CONCRETE PAVEMENT FROM BASELINE TO THE MEDIAN, AND 11' WIDTH FROM THE BASELINE TO THE OUTER EOP, BASED ON 1958 CONSTRUCTION PLANS.

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CHECKED BY: **R.KRAHN**
SCALE AS NOTED

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DEPARTMENT OF TRANSPORTATION

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Kleinfelder
200 Corporate Place,
Suite 310
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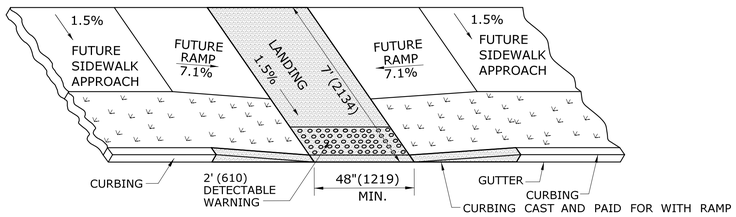
PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

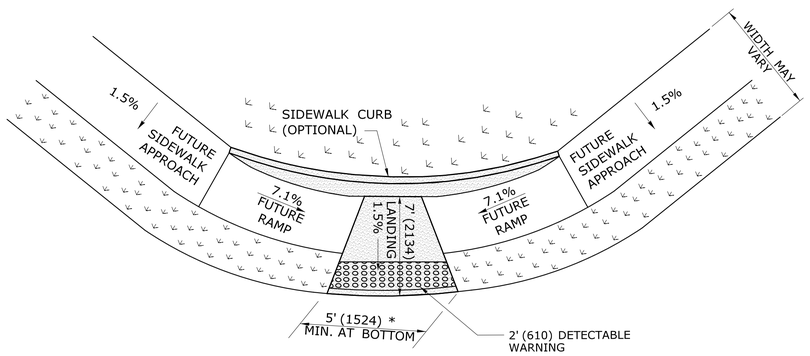
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
MISC. DETAILS - 1

PROJECT NO. **106-126**
DRAWING NO. **MDS-01**
SHEET NO. **03.05**



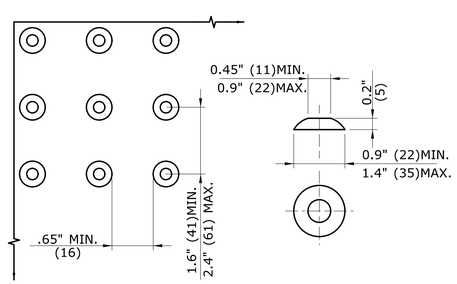
PARALLEL SIDEWALK RAMP (TYPE 1a)
WITH UTILITY / GRASS STRIP



DOUBLE PARALLEL SIDEWALK RAMP
W/LANDING AT BOTTOM ON CORNER (TYPE 4f)

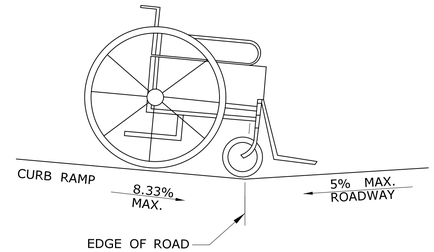
* SEE NOTE 20

1. RAMPED MEDIANS SHALL HAVE A CURB RAMP AT EITHER END AND LEVEL LANDING A MINIMUM OF 5' x 5' (1.5m x 1.5m) IN BETWEEN. CUT-THROUGH MEDIANS SHALL BE A MINIMUM OF 6' (1.8m) LONG AND 5' (1.5m) WIDE. FOR ALL MEDIANS, CUT-THROUGH OR RAMPED, A 2' (610) STRIP OF DETECTABLE WARNINGS SHALL BE INSTALLED AT THE ENTRANCE AND EXIT.



DOME SPACING **DOME SECTION**

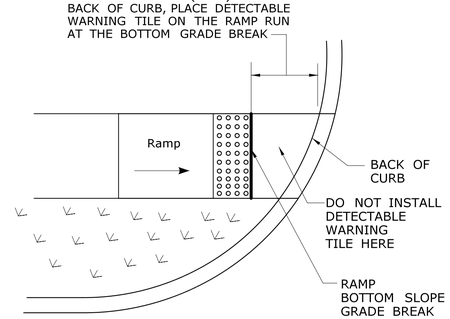
STANDARD DOME ON DETECTABLE WARNING TILES



DETAIL 1
SEE GRADE CHANGE AT ROADWAY INTERFACE

SEE NOTE 1

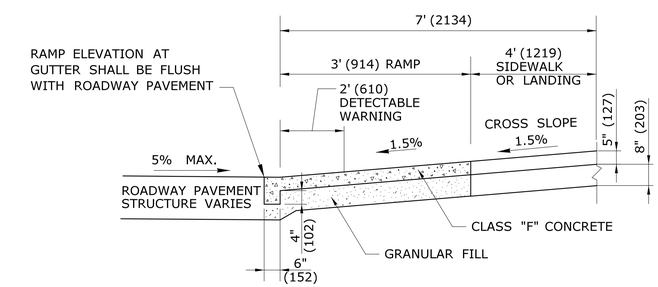
NOTE : IF BOTH ENDS OF THE RAMP BOTTOM SLOPE GRADE BREAK ARE LESS THAN 5' (1.5m) FROM BACK OF CURB, PLACE DETECTABLE WARNING TILE ON THE RAMP RUN AT THE BOTTOM GRADE BREAK



DETECTABLE WARNING
PLACEMENT DETAIL

GENERAL NOTES:

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 13%. SEE DETAIL 1.
2. RAMP GRADE SHALL BE UNIFORM, FREE OF SAGS AND ABRUPT GRADE CHANGES. RUNNING SLOPES OF RAMPS SHALL NOT EXCEED 8.33% AND SHALL NOT EXCEED 15' (4.5m) WITHOUT PROVIDING A LANDING.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED ½" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN ¼" (6.4) AND ½" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMPS SHALL HAVE THE RAMP CUT PERPENDICULAR TO THE TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE. BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKEWED RAMPS SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADII IS LESS THAN 20'(6096).
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.3% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
8. CONCRETE SIDEWALK RAMPS, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOE AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION). CURB REMOVAL AND CAST IN PLACE CURBING REQUIRED FOR THE RAMP, SHALL BE INCLUDED WITH PAY ITEM "CONCRETE SIDEWALK RAMP". CURBING OUTSIDE LIMITS OF RAMP OR LANDING SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAIL.
11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS. PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
14. THE TOP AND BOTTOM OF RAMPS SHOULD BE PROVIDED WITH A 4' x 4' (1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
15. UTILITY POLES, LUMINAIRE, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMPS, LANDINGS, BLENDED TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
19. FOR PERPENDICULAR CURB RAMPS A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED AT THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
20. FOR PARALLEL CURB RAMPS, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m)x 5'(1.5m) WITH THE 5' (1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
21. WHEN WIDTH OF SIDEWALK IS >48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS <48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.



TYPICAL SECTION THRU SIDEWALK RAMP

SEE NOTE 2, 9, AND 17

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

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

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.

Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **N. MORGAN**
CHECKED BY: **R. KRAHN**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.05-HW-MSH_106_126_Misc. Details.dgn

SIGNATURE/BLOCK:
Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
MISC. DETAILS - 2

PROJECT NO. **106-126**
DRAWING NO. **MDS-02**
SHEET NO. **03.06**

NOTES

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.

2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.

LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.

SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.

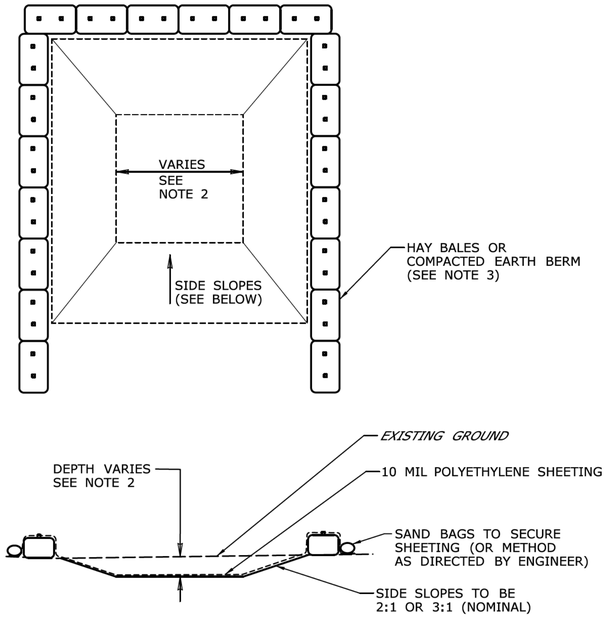
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.

4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.

5. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.

6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.

7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.



CONCRETE WASHOUT AREA

NOT TO SCALE
(SEE NOTE 2)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **K. BLACK**

CHECKED BY: **R. KRAHN**

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\03.05-HW-MSH_106_126_Misc. Details_MDS-03.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

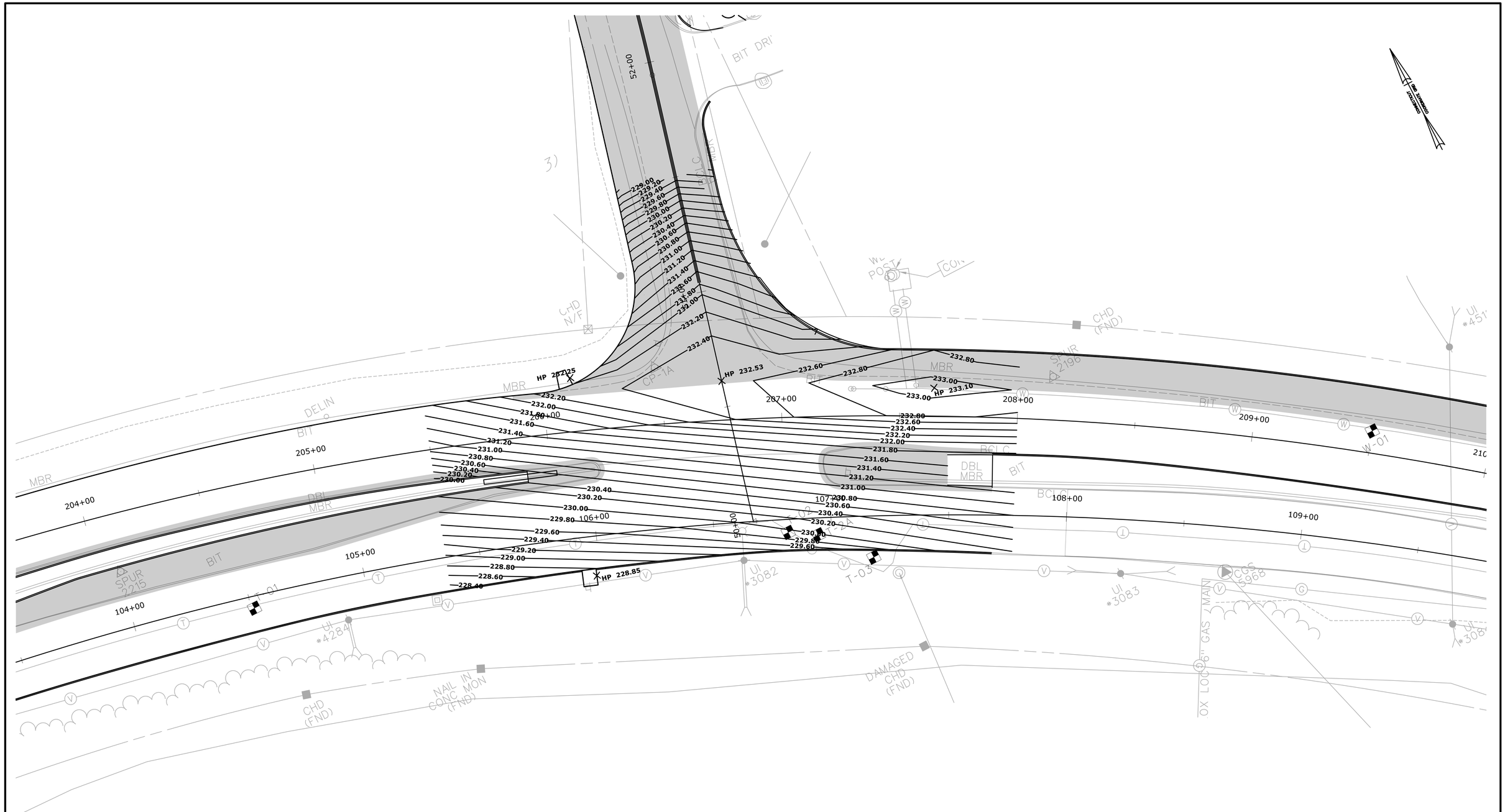
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
MISC. DETAILS - 3

PROJECT NO. **106-126**

DRAWING NO. **MDS-03**

SHEET NO. **03.07**



NOTE:

1. CONTOUR INTERVAL = 0.20'

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.

Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R.KRAHN**

SCALE IN FEET 0 20 40

SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.06-HW_MSH_106_126_Intersection Grading Plan.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
INTERSECTION GRADING PLAN

PROJECT NO. **106-126**

DRAWING NO. **IGP-01**

SHEET NO. **03.08**

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-1	
Inspector: Glenn L. Arzt	Town: Orange	Stat./Offset: 202+86/13.3 Left	
Engineer: Sara Ghatee	Project No.: 0106-0126	Northing: 674176.9	
Start Date: 1-6-16	Route No.: 34	Easting: 919675.4	
Finish Date: 1-6-16	Bridge No.: NA	Surface Elevation: 226.8	
Project Description: Intersection Improvements at Route 34 and Baldwin Road			
Casing Size/Type: 4in HSA	Sampler Type/Size: 2in SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ MISC. FILL		225
5	S-1	7 2 19 7	24	16			Gray - C/F GRAVEL, AND F/C SAND, trace Silt	220
10	S-2	5 4 11 27	24	15			Brown - C/F SAND AND F/C GRAVEL, trace Silt	215
15	S-3	19 26 16 17	24	0		GLACIAL TILL	No Recovery	210
20							END OF BORING 17ft	205
25								200
30								195
35								190
40								185
45								180
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 17ft Rock: 0ft	NOTES: Pavement structure consists of 8 inches of bituminous concrete pavement with no discernable subbase.	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-2	
Inspector: Glenn L. Arzt	Town: Orange	Stat./Offset: 205+00/14.5 Left	
Engineer: Sara Ghatee	Project No.: 0106-0126	Northing: 674132.5	
Start Date: 1-6-16	Route No.: 34	Easting: 919886.7	
Finish Date: 1-6-16	Bridge No.: NA	Surface Elevation: 229.5	
Project Description: Intersection Improvements at Route 34 and Baldwin Road			
Casing Size/Type: 4in HSA	Sampler Type/Size: 2in SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ MISC. FILL		225
5	S-1	8 13 18 22	24	14			Brown - F/C SAND, AND C/F GRAVEL, trace Silt	220
10	S-2	13 25 35 52	24	16			Gray - F/C SAND, AND C/F GRAVEL, trace Silt	215
15	S-3	30	0	0		GLACIAL TILL	No Recovery	210
20							END OF BORING 15ft	205
25								200
30								195
35								190
40								185
45								180
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 15ft Rock: 0ft	NOTES: Pavement structure consists of 12 inches of bituminous concrete pavement with no discernable subbase. Encountered split spoon refusal at 15 feet	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-3	
Inspector: Glenn L. Arzt	Town: Orange	Stat./Offset: 52+55/6.7 Left	
Engineer: Sara Ghatee	Project No.: 0106-0126	Northing: 674261.2	
Start Date: 1-7-16	Route No.: 34	Easting: 920094.1	
Finish Date: 1-7-16	Bridge No.: NA	Surface Elevation: 219.4	
Project Description: Intersection Improvements at Route 34 and Baldwin Road			
Casing Size/Type: 4in HSA	Sampler Type/Size: 2in SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ GLACIAL TILL		215
5	S-1	23 35 68	15	14			Light Brown - F/C SAND, some f/c Gravel, trace Silt	210
10							END OF BORING 7ft	205
15								200
20								195
25								190
30								185
35								180
40								175
45								170
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 7ft Rock: 0ft	NOTES: Pavement structure consists of 12 inches of bituminous concrete pavement with no discernable subbase. Encountered auger refusal at 7 feet.	Sheet 1 of 1
No. of Soil Samples: 1 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-4	
Inspector: Glenn L. Arzt	Town: Orange	Stat./Offset: 209+37/13.5 Left	
Engineer: Sara Ghatee	Project No.: 0106-0126	Northing: 673937.5	
Start Date: 1-6-16	Route No.: 34	Easting: 920279.9	
Finish Date: 1-6-16	Bridge No.: NA	Surface Elevation: 230.5	
Project Description: Intersection Improvements at Route 34 and Baldwin Road			
Casing Size/Type: 4in HSA	Sampler Type/Size: 2in SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ MISC. FILL		230
5	S-1	1 1 1 3	24	15		TOPSOIL	Brown - Topsoil	225
10	S-2	19 23 25 48	24	16		GLACIAL TILL	Brown - F/C SAND, AND C/F GRAVEL, trace Silt	220
15	S-3	10 18 63	18	15			Light Brown - F/C SAND, little c/f Gravel, trace Silt	215
20							END OF BORING 16.5ft	210
25								205
30								200
35								195
40								190
45								185
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 16.5ft Rock: 0ft	NOTES: Pavement structure consists of 12 inches of bituminous concrete pavement with no discernable subbase.	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-5	
Inspector: Glenn L. Arzt	Town: Orange	Stat./Offset: 210+81/18.5 Left	
Engineer: Sara Ghatee	Project No.: 0106-0126	Northing: 673850.9	
Start Date: 1-6-16	Route No.: 34	Easting: 920396.2	
Finish Date: 1-6-16	Bridge No.: NA	Surface Elevation: 227.4	
Project Description: Intersection Improvements at Route 34 and Baldwin Road			
Casing Size/Type: 4in HSA	Sampler Type/Size: 2in SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ MISC. FILL		225
5	S-1	7 13 12 16	24	3			Brown - F/C SAND, AND C/F GRAVEL, trace Silt	220
10	S-2	25 23 23 21	24	13			White - F SAND, AND C/F GRAVEL, trace Silt	215
15	S-3	7 10 40	14	12		GLACIAL TILL	Brown - C/F SAND, little c/f Gravel, trace Silt	210
20							END OF BORING 16.2ft	205
25								200
30								195
35								190
40								185
45								180
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 16.2ft Rock: 0ft	NOTES: Pavement structure consists of 12 inches of bituminous concrete pavement with no discernable subbase.	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-6	
Inspector: Glenn L. Arzt	Town: Orange	Stat./Offset: 213+07/29 Left	
Engineer: Sara Ghatee	Project No.: 0106-0126	Northing: 673712.6	
Start Date: 1-7-16	Route No.: 34	Easting: 920574.2	
Finish Date: 1-7-16	Bridge No.: NA	Surface Elevation: 218.7	
Project Description: Intersection Improvements at Route 34 and Baldwin Road			
Casing Size/Type: 4in HSA	Sampler Type/Size: 2in SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						TOPSOIL MISC. FILL		215
5	S-1	8 10 12 14	24	18			Brown - F/C SAND, little f/c Gravel, trace Silt	210
10	S-2	11 12 11 15	24	16		GLACIAL TILL	Tan - F/C SAND, trace Silt, trace f/c Gravel	205
15	S-3	30 40	6	6			Brown - F/C SAND, some c/f Gravel, trace Silt	200
20							END OF BORING 15.5ft	195
25								190
30								185
35								180
40								175
45								170
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 15.5ft Rock: 0ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 0		SM-001-M REV. 1/02

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

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Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**
CHECKED BY: **R. KRAHN**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\03.07-HW-MSH_106_126_Boring logs.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
BORING LOGS

PROJECT NO. **106-126**
DRAWING NO. **BOR-01**
SHEET NO. **03.09**

CURVE DATA:

ROUTE 34 EASTBOUND ℄

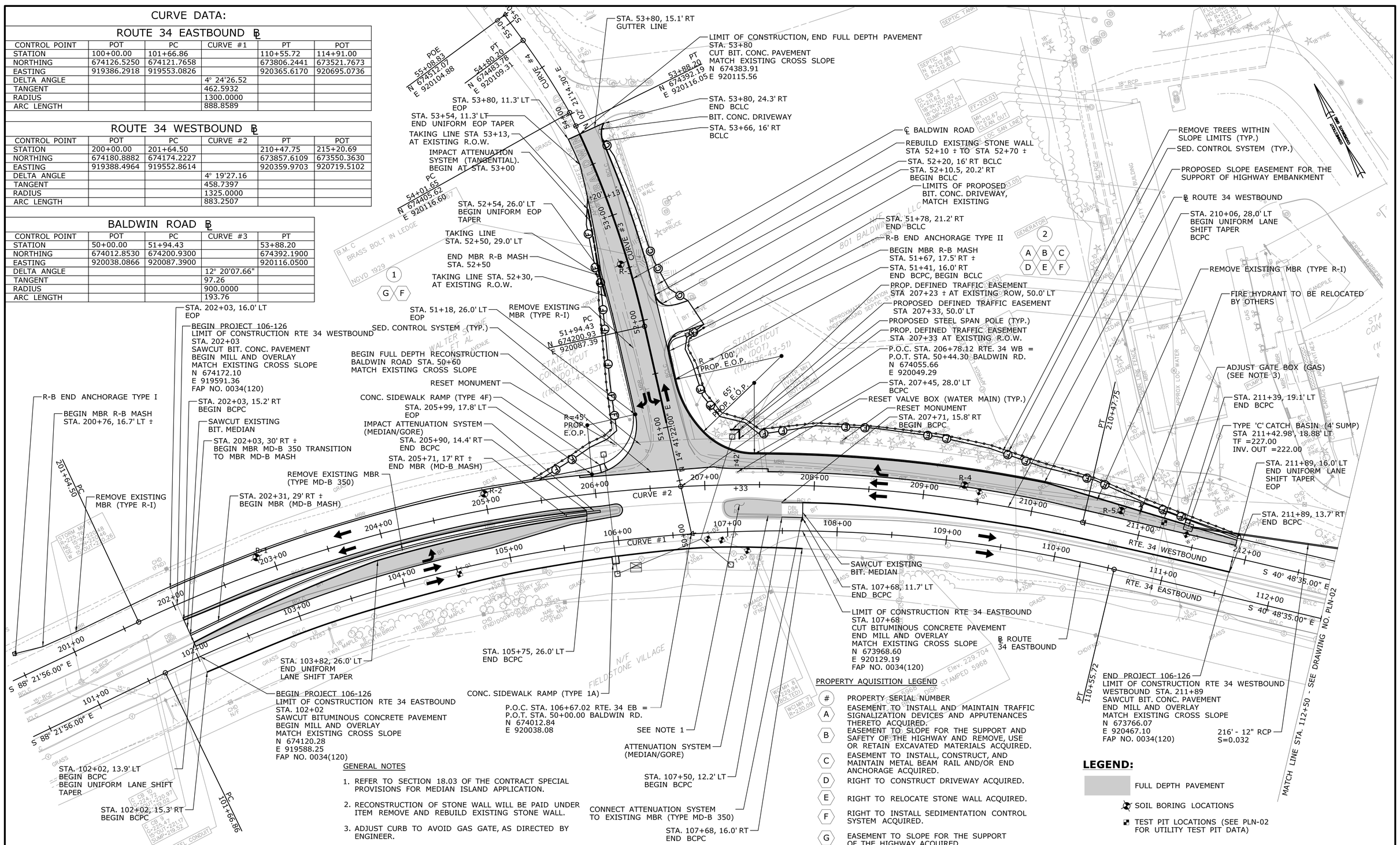
CONTROL POINT	POT	PC	CURVE #1	PT	POT
STATION	100+00.00	101+66.86		110+55.72	114+91.00
NORTHING	674126.5250	674121.7658		673806.2441	673521.7673
EASTING	919386.2918	919553.0826		920365.6170	920695.0736
DELTA ANGLE			4° 24'26.52		
TANGENT			462.5932		
RADIUS			1300.0000		
ARC LENGTH			888.8589		

ROUTE 34 WESTBOUND ℄

CONTROL POINT	POT	PC	CURVE #2	PT	POT
STATION	200+00.00	201+64.50		210+47.75	215+20.69
NORTHING	674180.8882	674174.2227		673857.6109	673550.3630
EASTING	919388.4964	919552.8614		920359.9703	920719.5102
DELTA ANGLE			4° 19'27.16		
TANGENT			458.7397		
RADIUS			1325.0000		
ARC LENGTH			883.2507		

BALDWIN ROAD ℄

CONTROL POINT	POT	PC	CURVE #3	PT
STATION	50+00.00	51+94.43		53+88.20
NORTHING	674012.8530	674200.9300		674392.1900
EASTING	920038.0866	920087.3900		920116.0500
DELTA ANGLE			12° 20'07.66"	
TANGENT			97.26	
RADIUS			900.0000	
ARC LENGTH			193.76	



GENERAL NOTES

1. REFER TO SECTION 18.03 OF THE CONTRACT SPECIAL PROVISIONS FOR MEDIAN ISLAND APPLICATION.
2. RECONSTRUCTION OF STONE WALL WILL BE PAID UNDER ITEM REMOVE AND REBUILD EXISTING STONE WALL.
3. ADJUST CURB TO AVOID GAS GATE, AS DIRECTED BY ENGINEER.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **N. MORGAN**
CHECKED BY: **R. KRAHN**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Filename: ...\03.08-HW_MSH_106_126_Roadway Plan_01.dgn

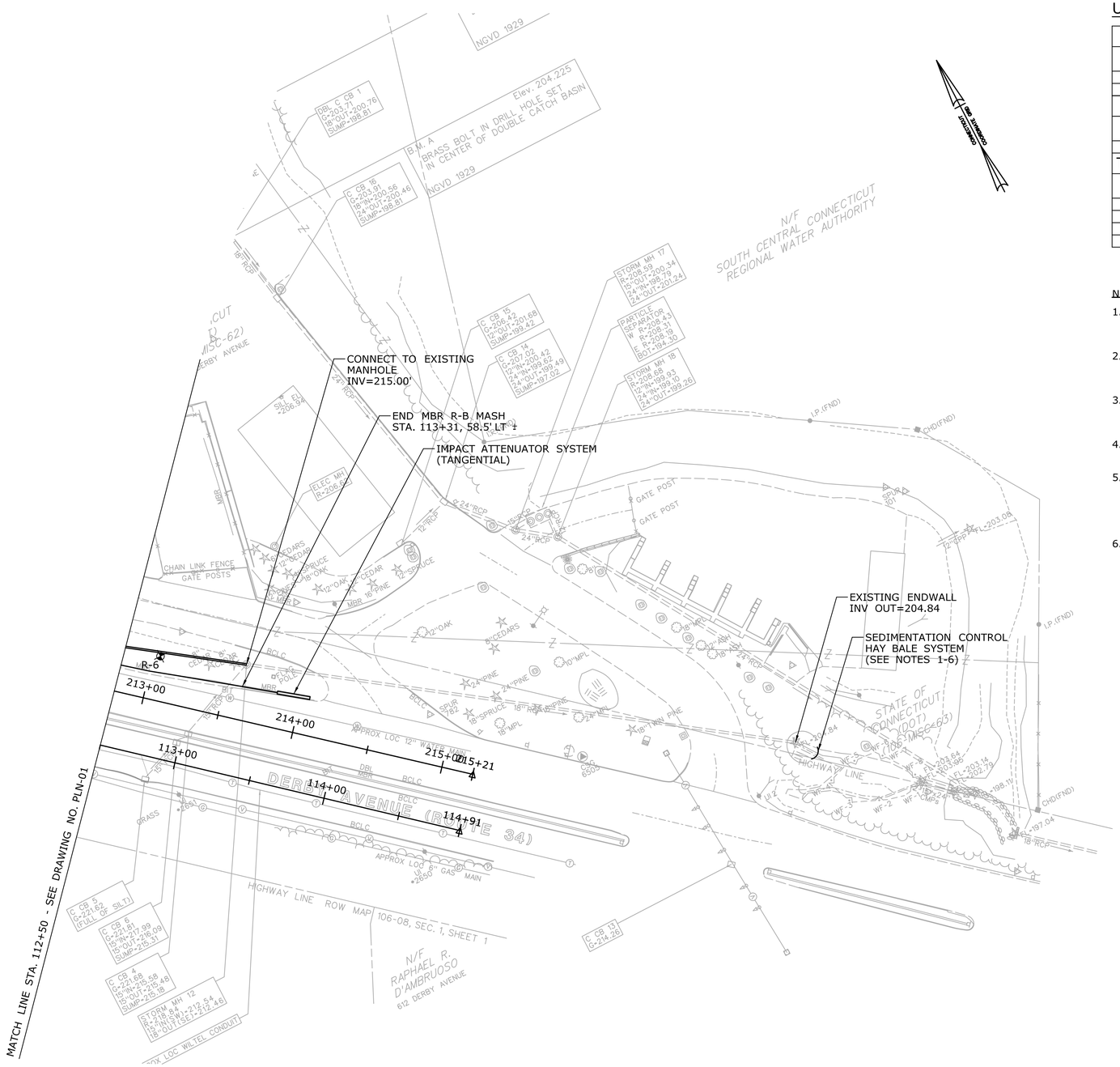
SIGNATURE/BLOCK:
Kleinfelder
200 Corporate Place, Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
ROADWAY PLAN 1

PROJECT NO. **106-126**
DRAWING NO. **PLN-01**
SHEET NO. **03.10**



UTILITY TEST PIT DATA:

WATER (SCRWA)

TEST PIT #	BASELINE STATION	BASELINE OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)	UTILITY DESCRIPTION	RELOCATION ANTICIPATED?
W-01	209+50	9.40' LT	673925.85	920289.02	231.81	227.45	WATER	NO
W-02	211+43	10.48' LT	673803.97	920438.88	227.20	222.83	WATER	NO

GAS (SCGC)

TEST PIT #	BASELINE STATION	BASELINE OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)	UTILITY DESCRIPTION	RELOCATION ANTICIPATED?
G-01	211+20	16.60' LT	673823.06	920425.95	227.70	224.92	GAS	NO

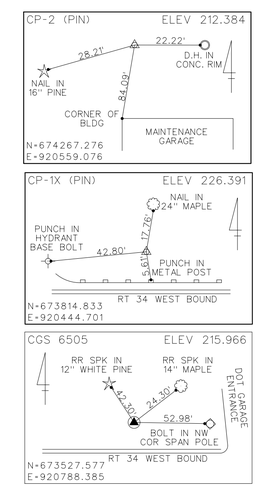
TELECOMMUNICATIONS (LEVEL 3)

TEST PIT #	BASELINE STATION	BASELINE OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)	UTILITY DESCRIPTION	RELOCATION ANTICIPATED?
T-01	104+51	5' RT	674077.81	919833.09	*	*	TELEPHONE	NO
T-02	106+82	5.5' RT	674001.89	920049.08	*	*	TELEPHONE	NO
T-03	107+18	17.5' RT	673975.82	920076.47	*	*	TELEPHONE	NO
T-2A	106+94	7' RT	673995.13	920059.93	*	*	TELEPHONE	NO

* ELEVATION DATA NOT AVALIABLE

NOTES:

1. SEDIMENT CONTROL HAY BALE SYSTEM IS TO BE INSTALLED AS DIRECTED BY THE ENGINEER PRIOR TO THE CLEANING OF THE CATCH BASINS AND DRAINAGE PIPES.
2. THE CLEANING OF THE CATCH BASIN AND DRAINAGE PIPES SHALL BE PERFORMED WHEN THERE IS NO RUNNING WATER IN THE DRAINAGE SYSTEM.
3. CLEANING OF THE DRAINAGE PIPES IS TO BE PAID FOR UNDER ITEM NO. 0653100 - CLEAN EXISTING CULVERT - 12" TO 42" DIAMETER.
4. CLEANING OF CATCH BASINS IS TO BE PAID FOR UNDER ITEM NO. 0653001 - CLEAN EXISTING CATCH BASIN.
5. UPON COMPLETION OF CATCH BASIN AND DRAINAGE PIPE CLEANING, THE SEDIMENT CONTROL HAY BALE SYSTEM AND SEDIMENTS FROM THE CLEANING SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE ENGINEER AND THE SITE RETURNED TO ORIGINAL CONDITIONS.
6. THE CONTRACTOR IS TO AVOID ANY IMPACT TO THE WETLANDS.



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.

Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **N. MORGAN**
CHECKED BY: **R. KRAHN**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.09-HW_MSH_106_126_Roadway Plan_02.dgn

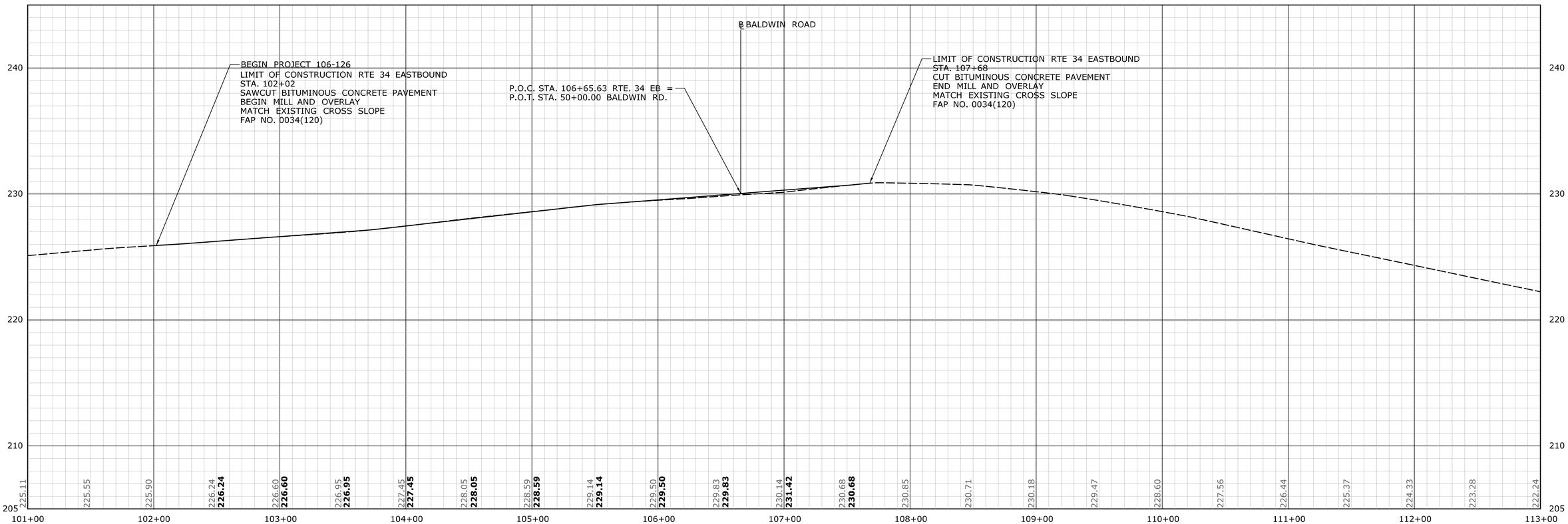
SIGNATURE/BLOCK:
Kleinfelder
200 Corporate Place, Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
ROADWAY PLAN 2

PROJECT NO. **106-126**
DRAWING NO. **PLN-02**
SHEET NO. **03.11**



PROFILE

SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1"= 4'

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.

Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**
CHECKED BY: **R. KRAHN**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.10-HW_MSH_106_126_Profile_01.dgn

SIGNATURE/ BLOCK:

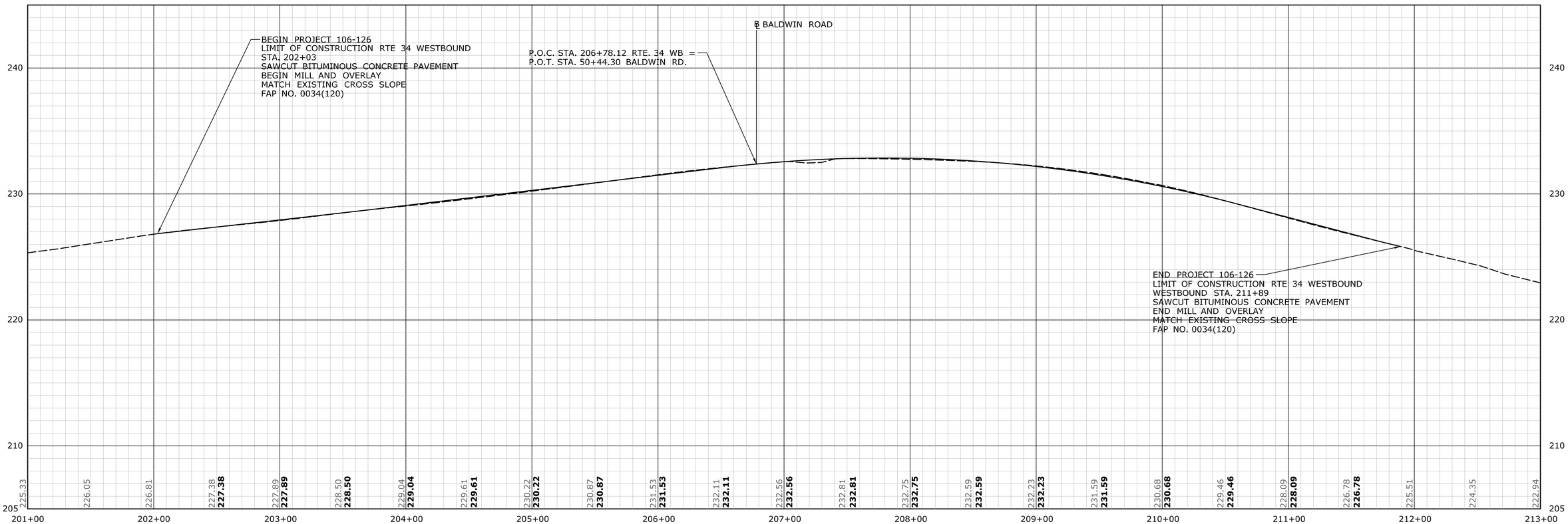
Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
ROADWAY PROFILE ROUTE 34 EASTBOUND

PROJECT NO. **106-126**
DRAWING NO. **PRO-01**
SHEET NO. **03.12**



PROFILE

SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1"= 4'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**
CHECKED BY: **R. KRAHN**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.11-HW_MSH_106_126_Profile_02.dgn

SIGNATURE/ BLOCK:

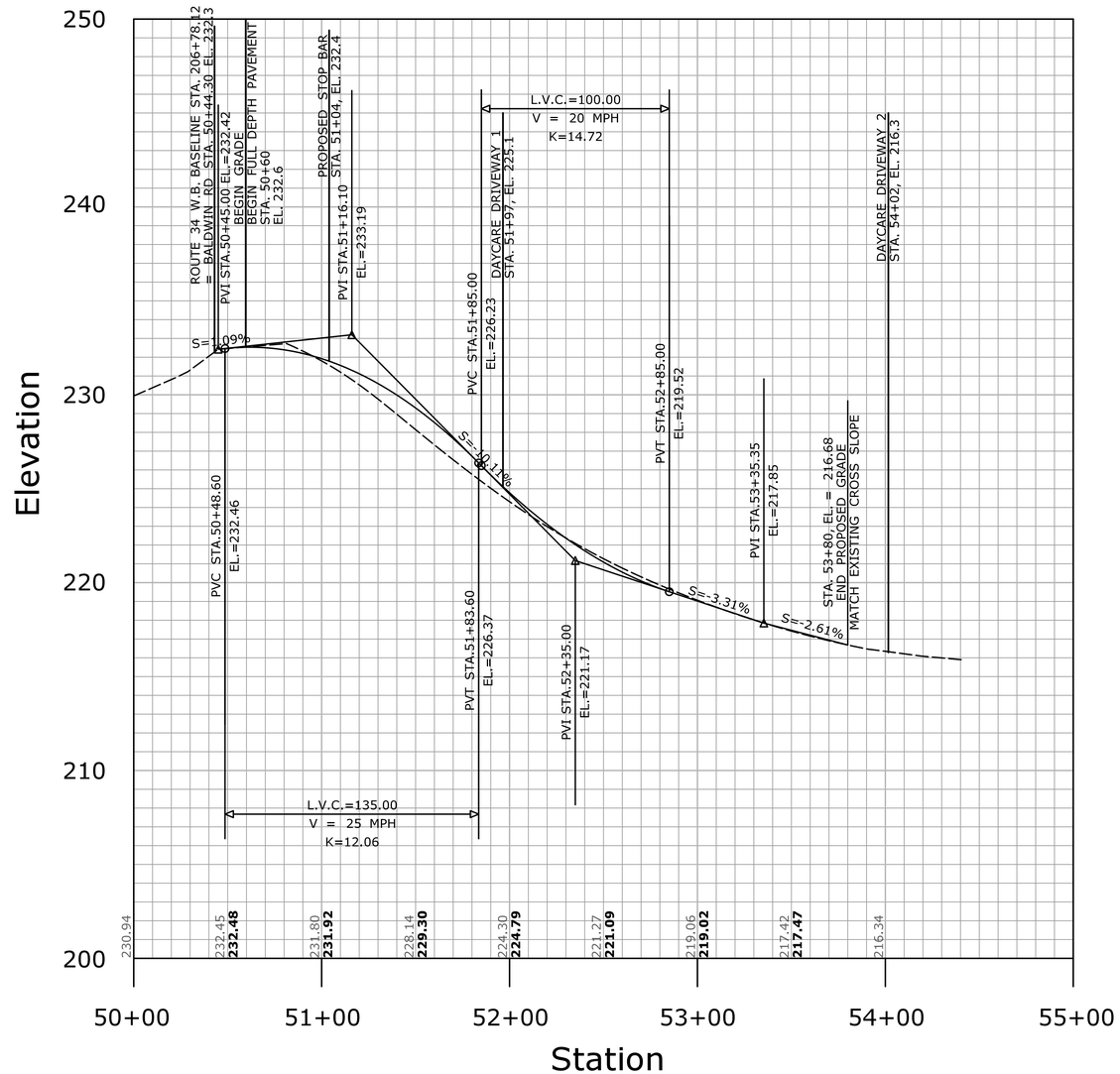
Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
ROADWAY PROFILE ROUTE 34 WESTBOUND

PROJECT NO. **106-126**
DRAWING NO. **PRO-02**
SHEET NO. **03.13**



PROFILE

SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1"=4'

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.

Plotted Date: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.12-HW..MSH..106..126..Profile..03.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

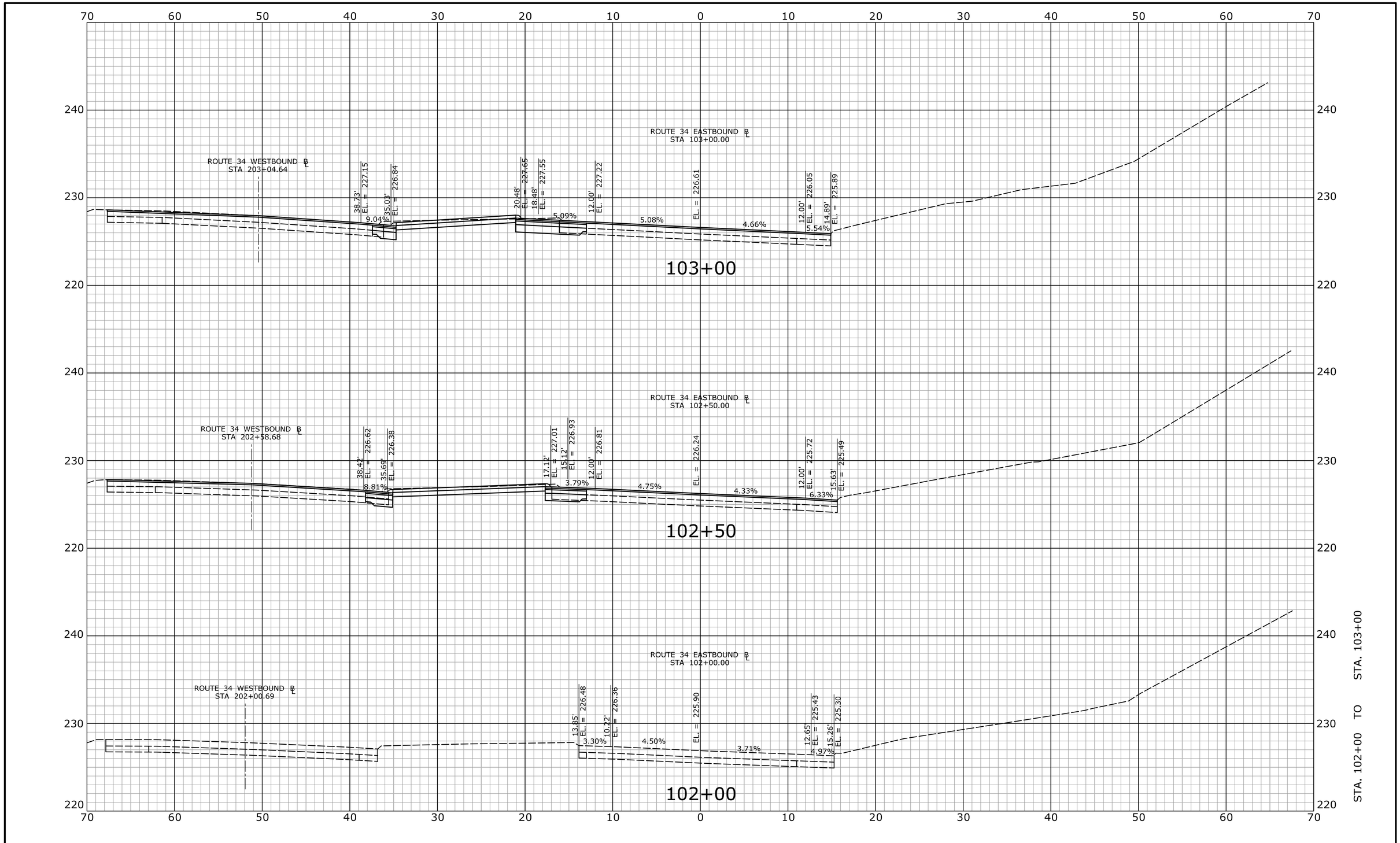
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
ROADWAY PROFILE BALDWIN ROAD

PROJECT NO. **106-126**

DRAWING NO. **PRO-03**

SHEET NO. **03.14**



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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.13-HW-MSH_106_126_Cross Section_34 EB_01.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

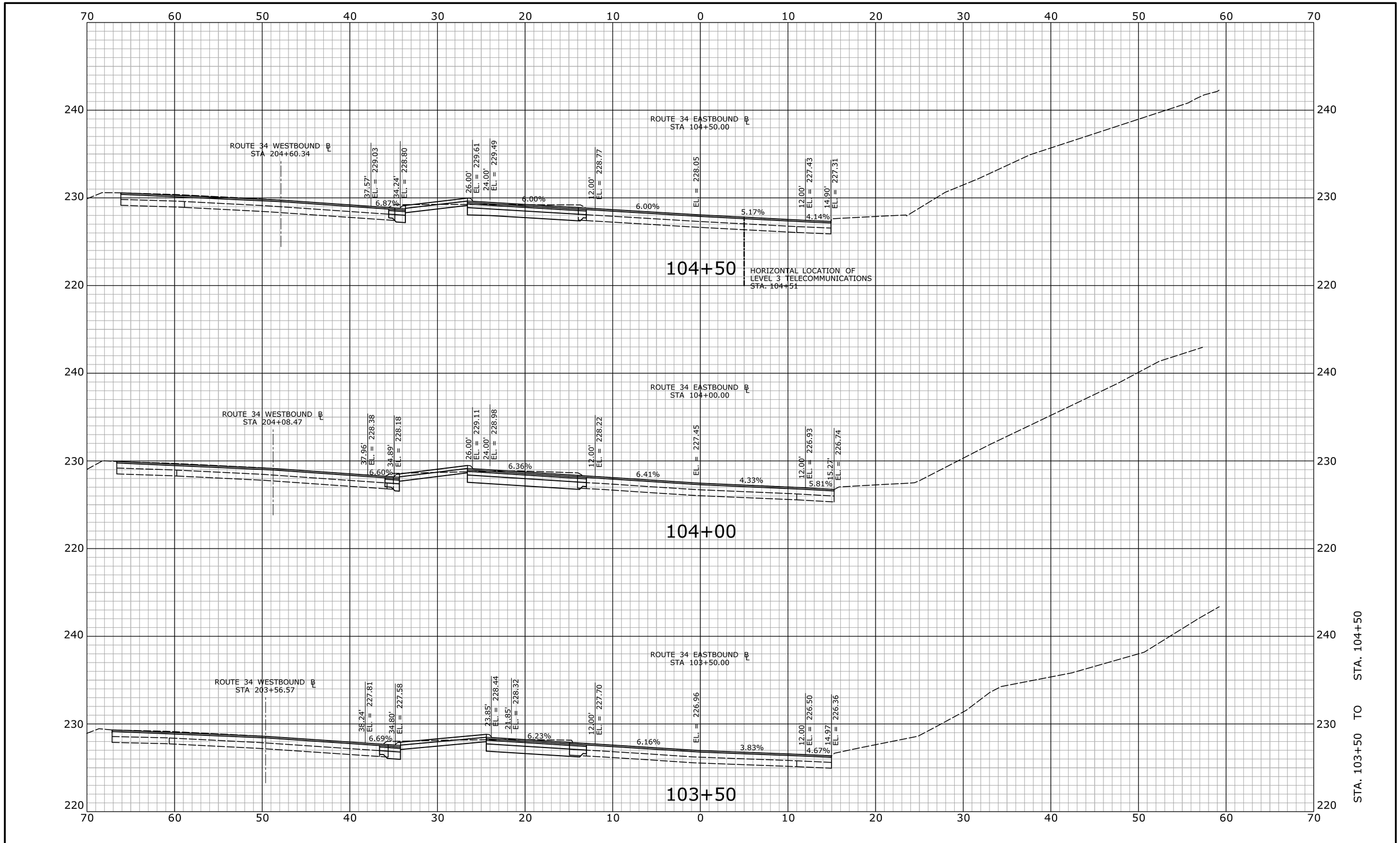
TOWN: **CITY OF DERBY & TOWN OF ORANGE**

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 EASTBOUND

PROJECT NO. **106-126**

DRAWING NO. **XSC-01**

SHEET NO. **03.15**



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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.14-HW-MSH_106_126_Cross Section_34 EB_02.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

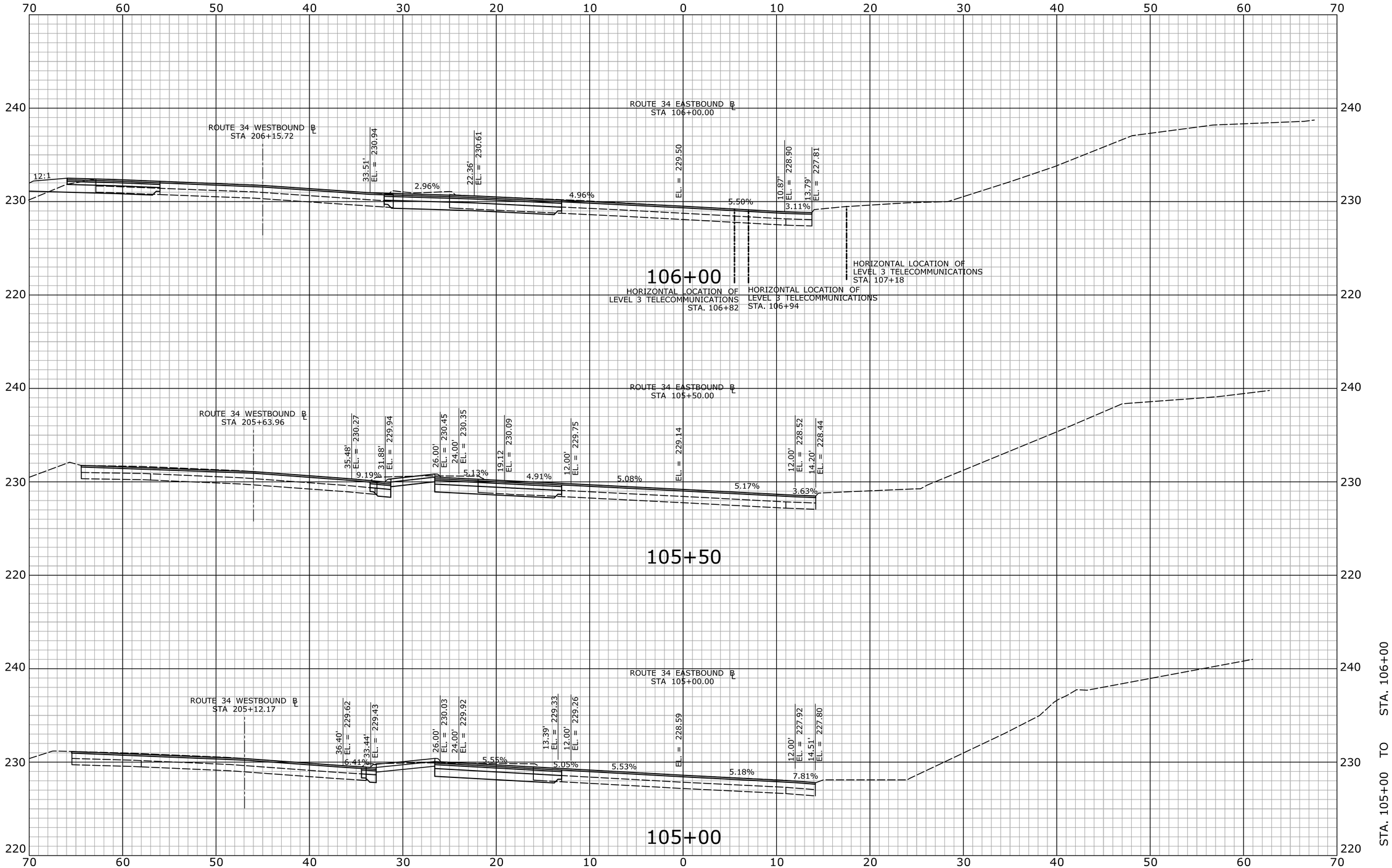
TOWN: **CITY OF DERBY & TOWN OF ORANGE**

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 EASTBOUND

PROJECT NO. **106-126**

DRAWING NO. **XSC-02**

SHEET NO. **03.16**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.15-HW-MSH_106_126_Cross Section_34 EB_03.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

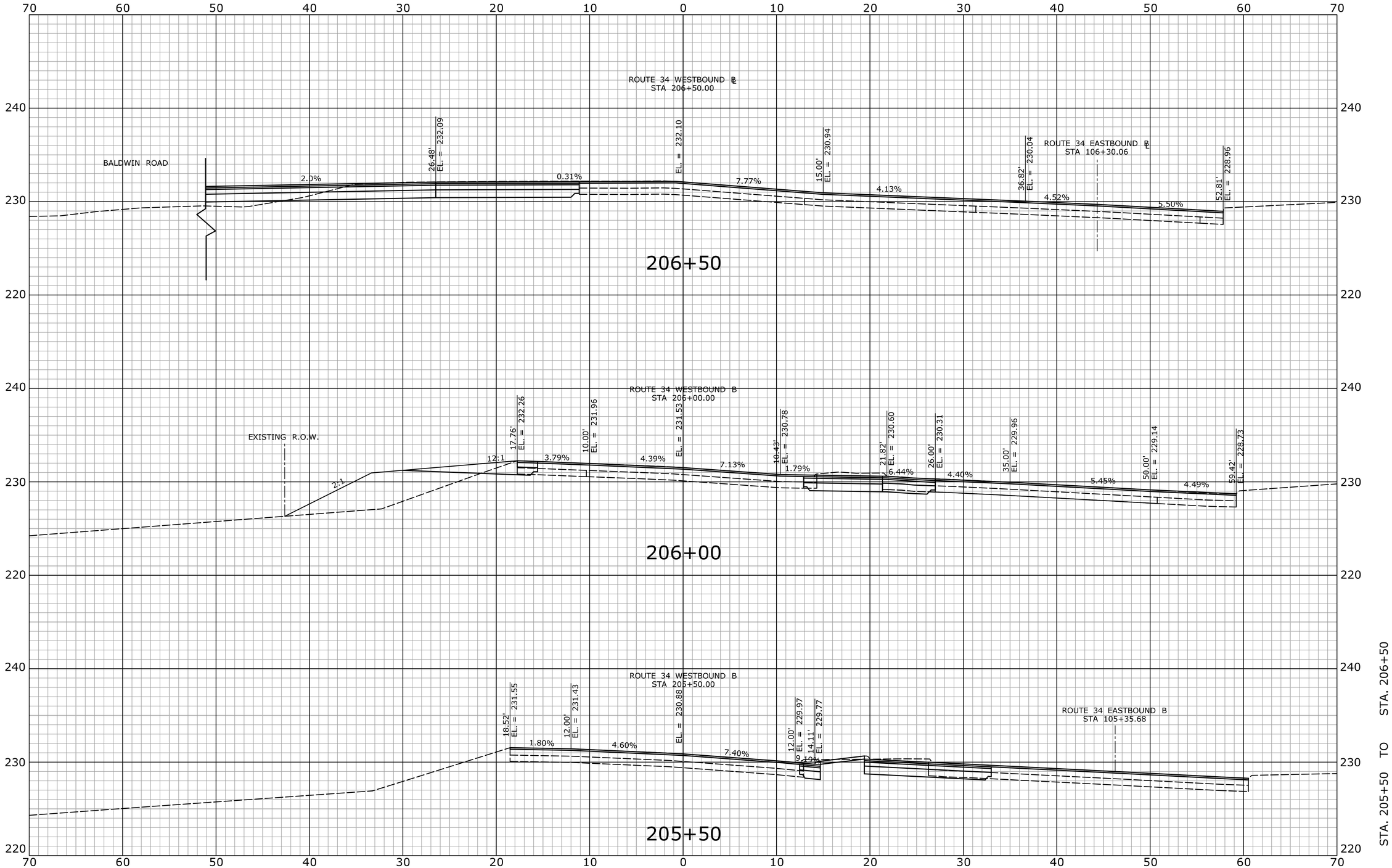
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 EASTBOUND

PROJECT NO. **106-126**

DRAWING NO. **XSC-03**

SHEET NO. **03.17**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.16-HW-MSH_106_126_Cross Section_34 WB_01.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

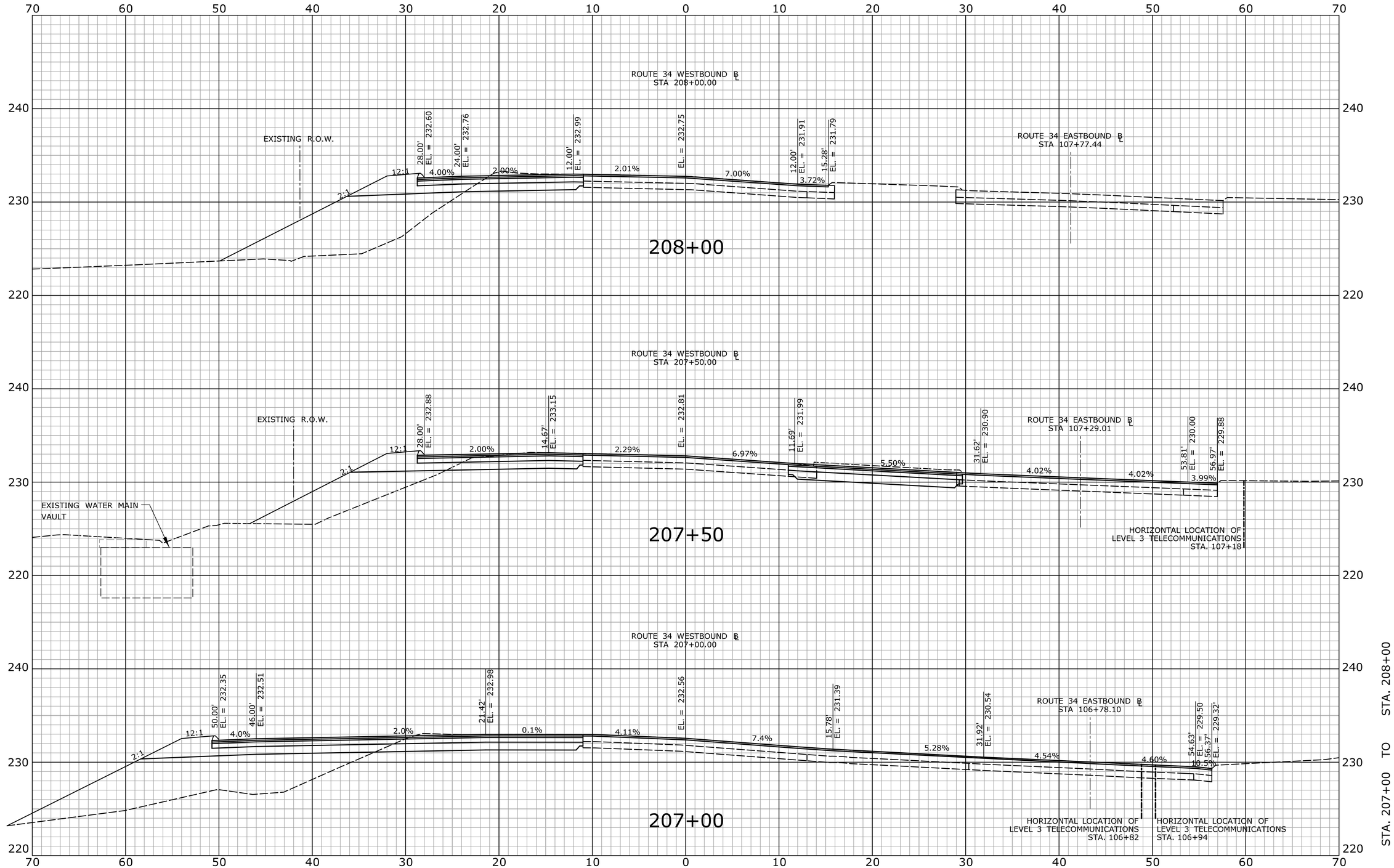
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 WESTBOUND

PROJECT NO. **106-126**

DRAWING NO. **XSC-04**

SHEET NO. **03.18**



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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.17-HW-MSH_106_126_Cross Section_34 WB_02.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT · KRISTY L. KLEINFELDER · 418244 · LICENSED PROFESSIONAL ENGINEER

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

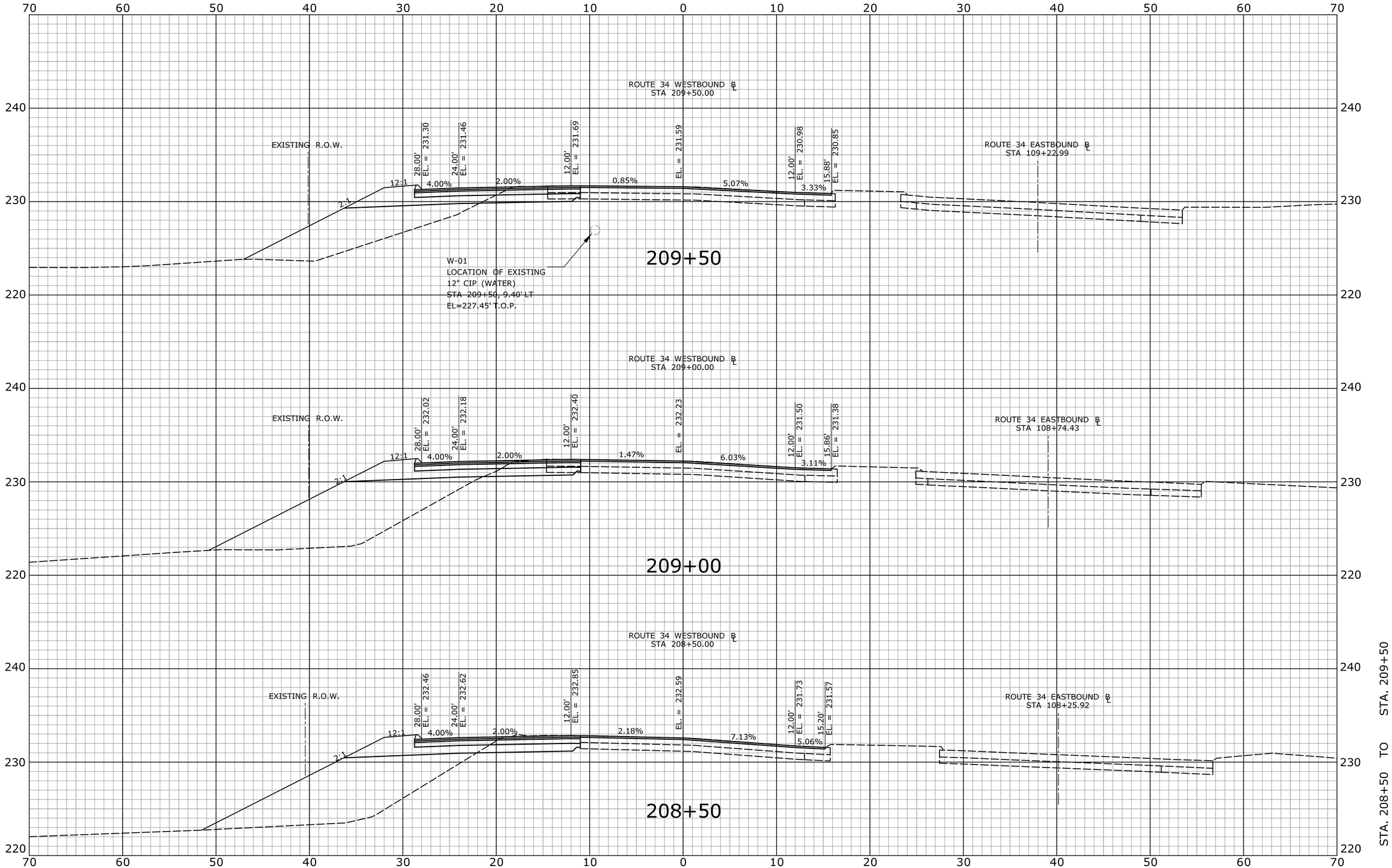
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 WESTBOUND

PROJECT NO. **106-126**

DRAWING NO. **XSC-05**

SHEET NO. **03.19**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.18-HW-MSH_106_126_Cross Section_34 WB_03.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT · ROBERT A. KLEINFELDER · 418244 · LICENSED PROFESSIONAL ENGINEER

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

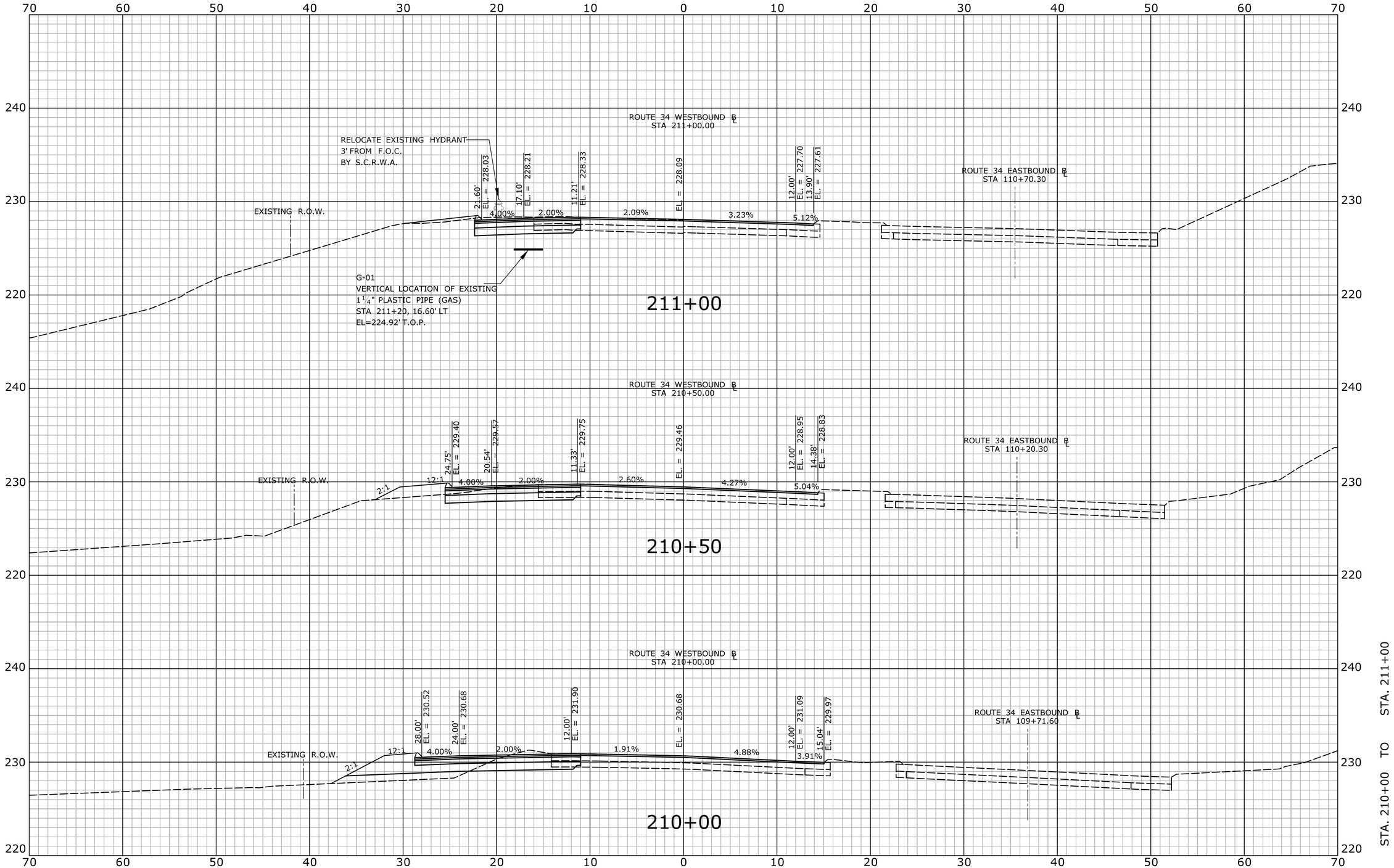
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 WESTBOUND

PROJECT NO. **106-126**

DRAWING NO. **XSC-06**

SHEET NO. **03.20**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.19-HW-MSH_106_126_Cross Section_34 WB_04.dgn

SIGNATURE/BLOCK:

STATE OF CONNECTICUT
ROBERT A. KLEINFELDER
#18244
LICENSED
PROFESSIONAL ENGINEER

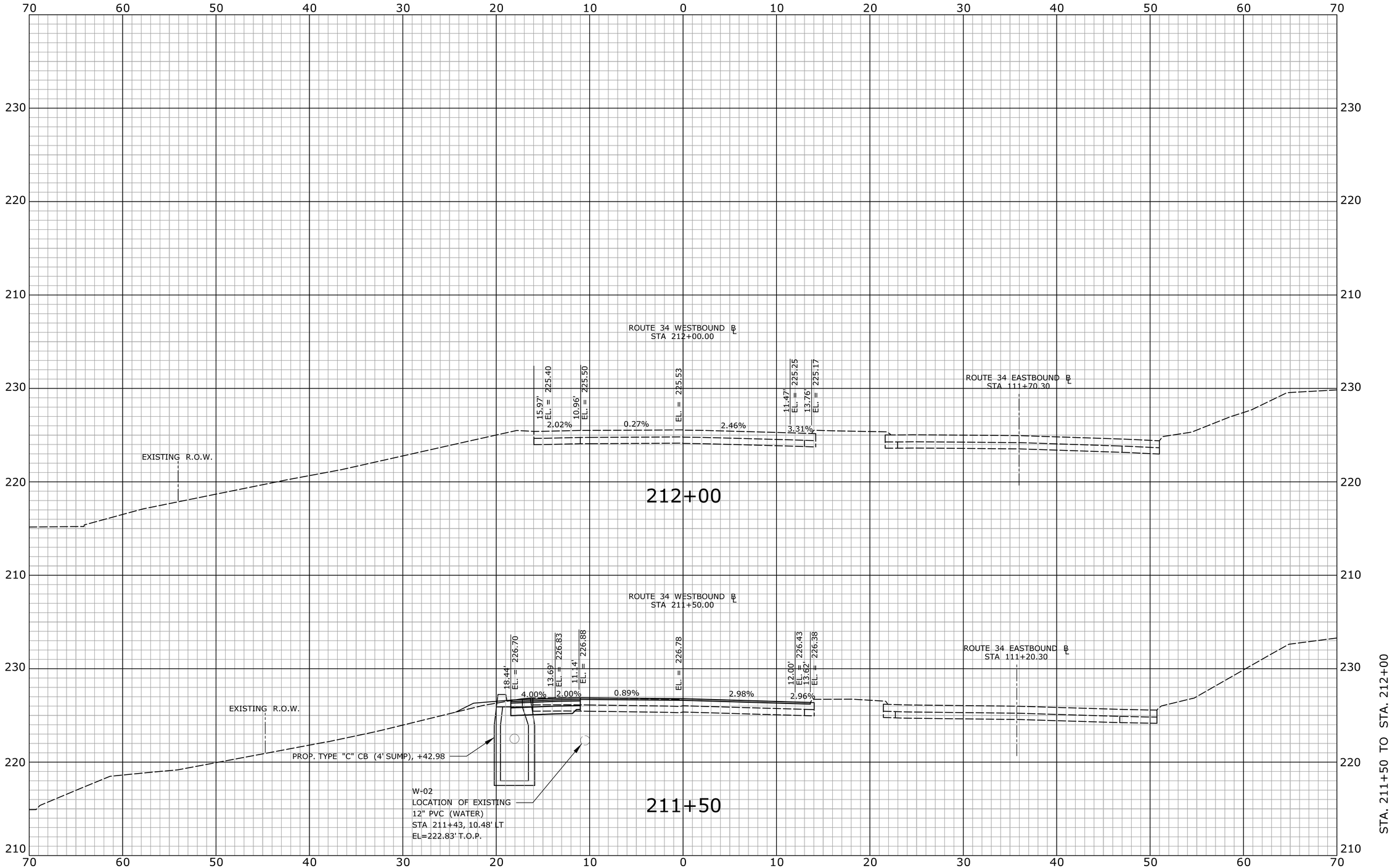
Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 WESTBOUND

PROJECT NO. **106-126**
DRAWING NO. **XSC-07**
SHEET NO. **03.21**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.20-HW-MSH_106_126_Cross Section_34 WB_05.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT · RICHARD J. KRAHN · 418244 · LICENSED PROFESSIONAL ENGINEER

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

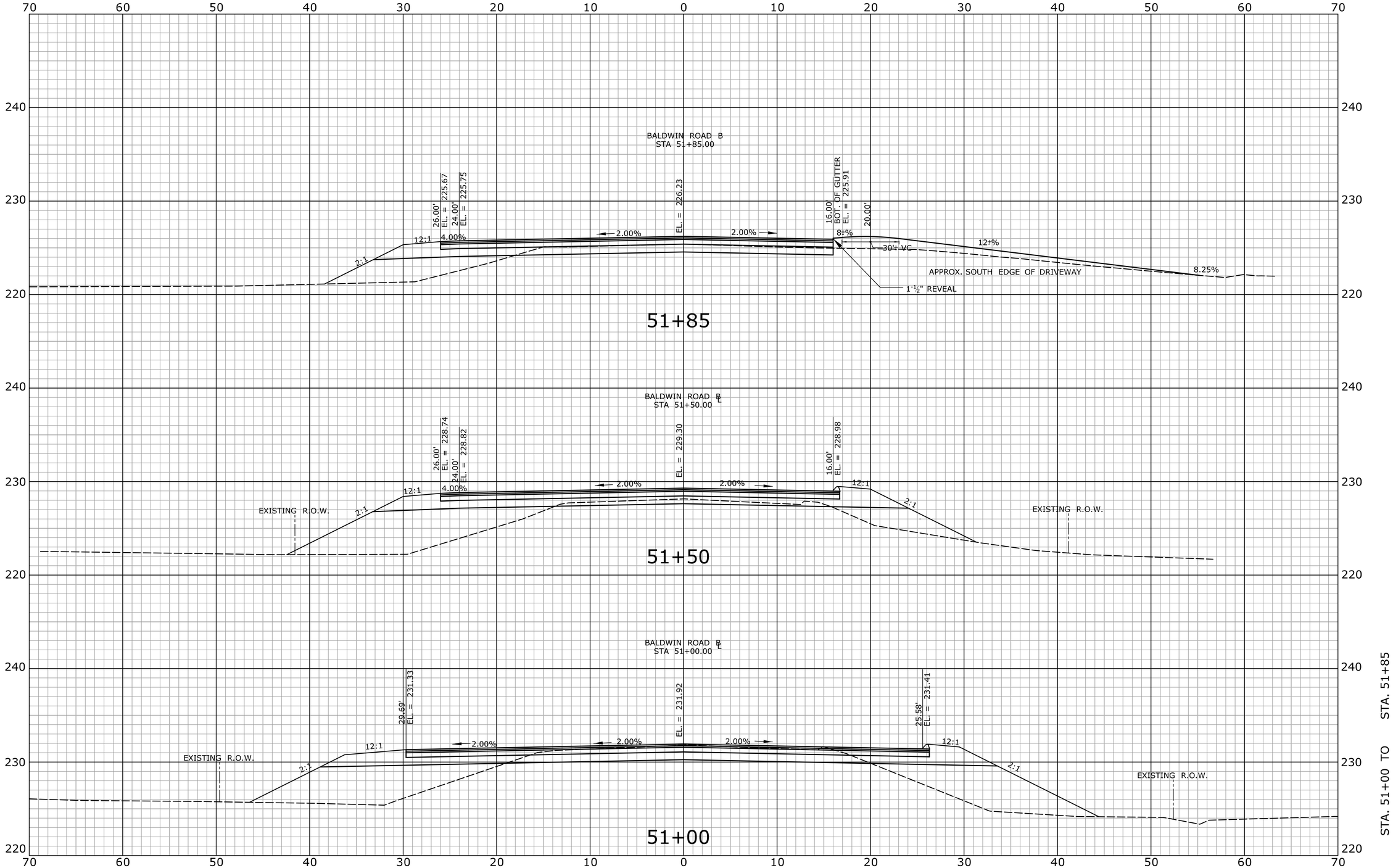
TOWN: **CITY OF DERBY & TOWN OF ORANGE**

DRAWING TITLE:
CROSS SECTIONS ROUTE 34 WESTBOUND

PROJECT NO. **106-126**

DRAWING NO. **XSC-08**

SHEET NO. **03.22**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.21-HW-MSH..106..126..Cross Section..34 Baldwin..01.dgn

SIGNATURE/BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

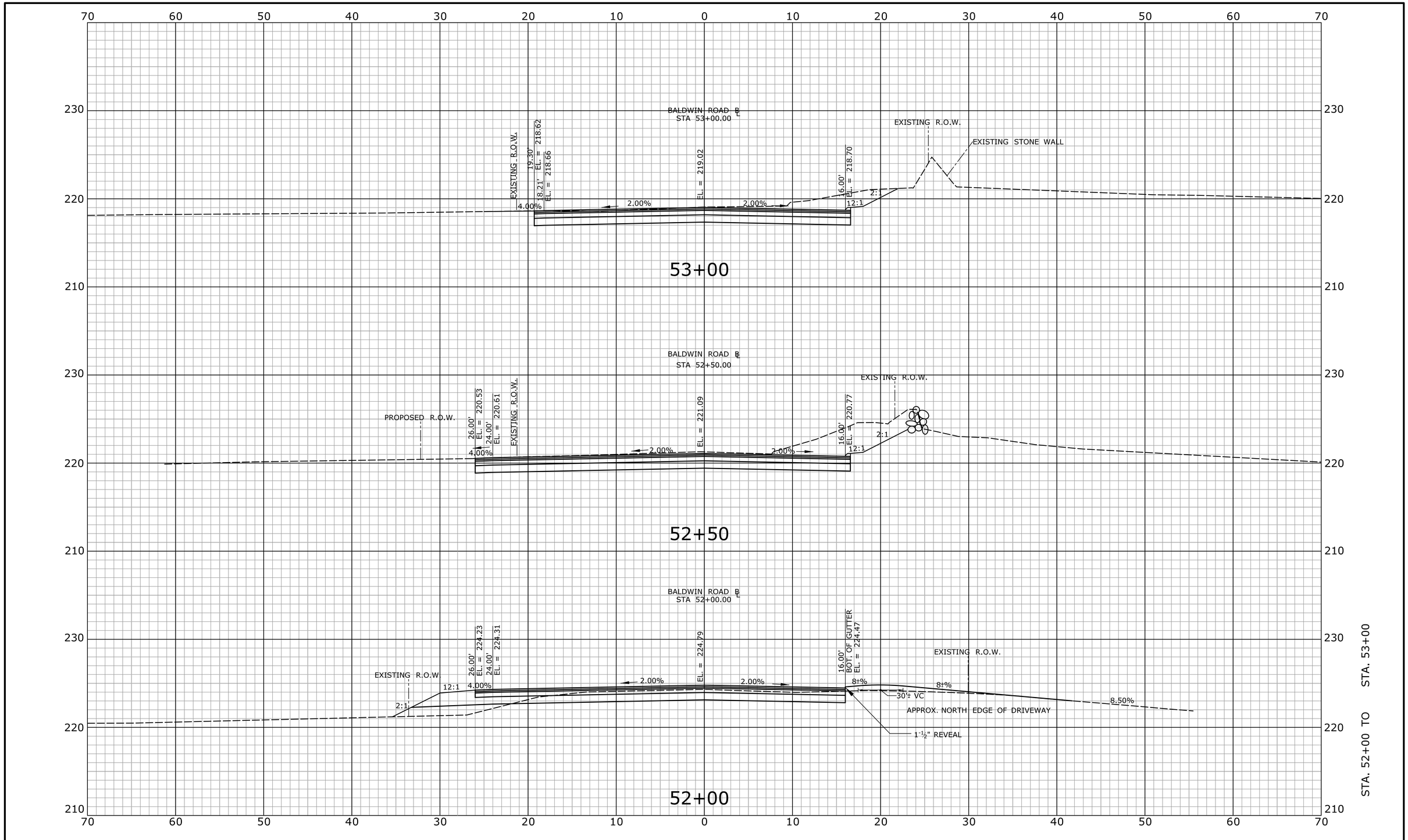
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS BALDWIN ROAD

PROJECT NO. **106-126**

DRAWING NO. **XSC-09**

SHEET NO. **03.23**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.22-HW-MSH_106_126_Cross Section_34 Baldwin_02.dgn

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
KEITH A. KLEINFELDER
#18244
LICENSED
PROFESSIONAL ENGINEER

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

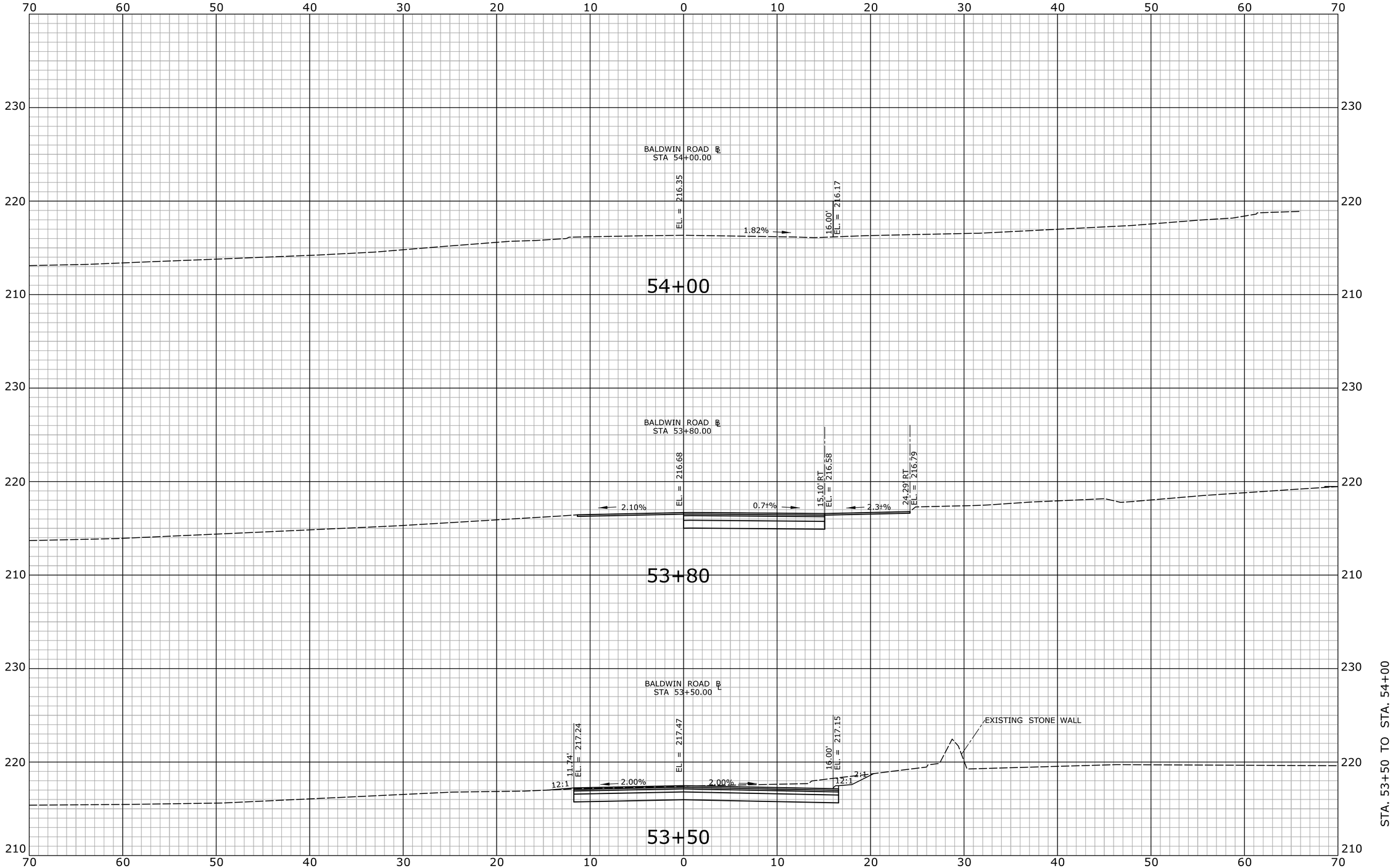
TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS BALDWIN ROAD

PROJECT NO. **106-126**

DRAWING NO. **XSC-10**

SHEET NO. **03.24**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/27/2018

DESIGNER/DRAFTER: **R. JAROSZEWSKI**

CHECKED BY: **R. KRAHN**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\03.23-HW-MSH..106..126..Cross Section..34 Baldwin..03.dgn

SIGNATURE/ BLOCK:

Kleinfelder
200 Corporate Place,
Suite 310
Rocky Hill, CT 06067

PROJECT TITLE:
INTERSECTION IMPROVEMENTS AT ROUTE 34 (DERBY TURNPIKE) AND BALDWIN ROAD & COMPUTERIZED TRAFFIC SIGNAL SYSTEM (CTSS) UPGRADE

TOWN:
CITY OF DERBY & TOWN OF ORANGE

DRAWING TITLE:
CROSS SECTIONS BALDWIN ROAD

PROJECT NO. **106-126**

DRAWING NO. **XSC-11**

SHEET NO. **03.25**