

# ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS

## PROJECT 104-172

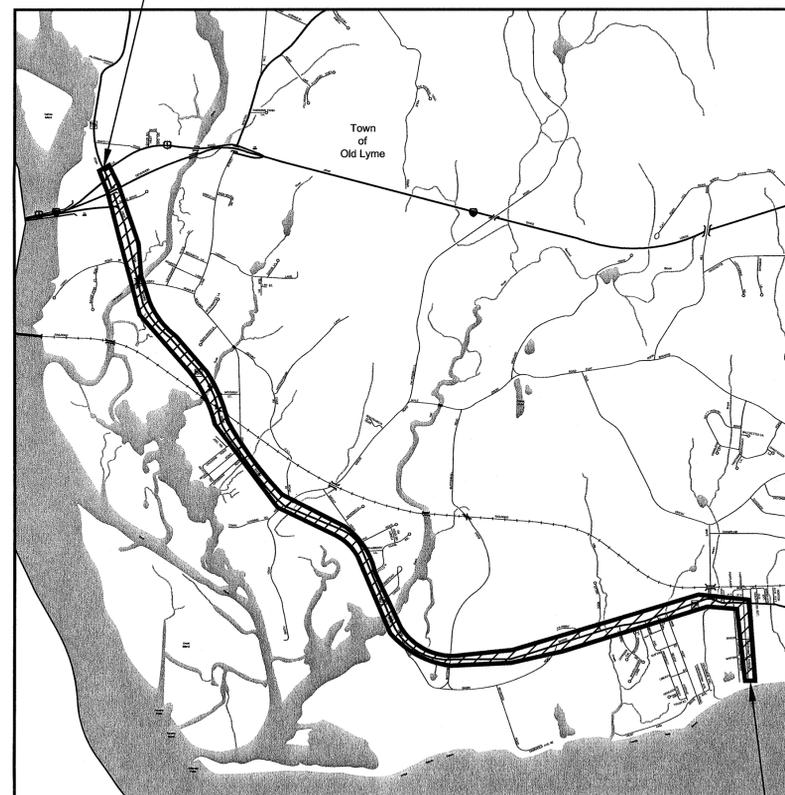
OLD LYME, CT

FEDERAL AID PROJECT NO. BIKE(086)

### FINAL DESIGN

JUNE 9, 2016

BEGINNING OF PROJECT NO. 104-172  
HALLS ROAD AT ROUTE 156



LOCATION MAP

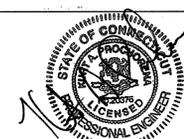
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SCALE: 1" = 2000'±

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

#### GENERAL NOTES:

- CONSTRUCTION SPECIFICATIONS:  
Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, dated 2004; Supplemental Specifications, dated January 2015; and Special Provisions
- 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983

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



SUBMITTED BY: PRINCIPAL ENGINEER - KURT PROCHORENA, P.E.

*Bonnie A. Reemsnyder*

APPROVAL BY: TOWN OF OLD LYME *Bonnie A. Reemsnyder, First Selectman*

END PROJECT NO. 104-172  
HARTFORD AVENUE AT POND ROAD

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C-700	TYPICAL SECTIONS
DT-100-110	DETAILS
HW-1-7	CTDOT HIGHWAY STANDARDS
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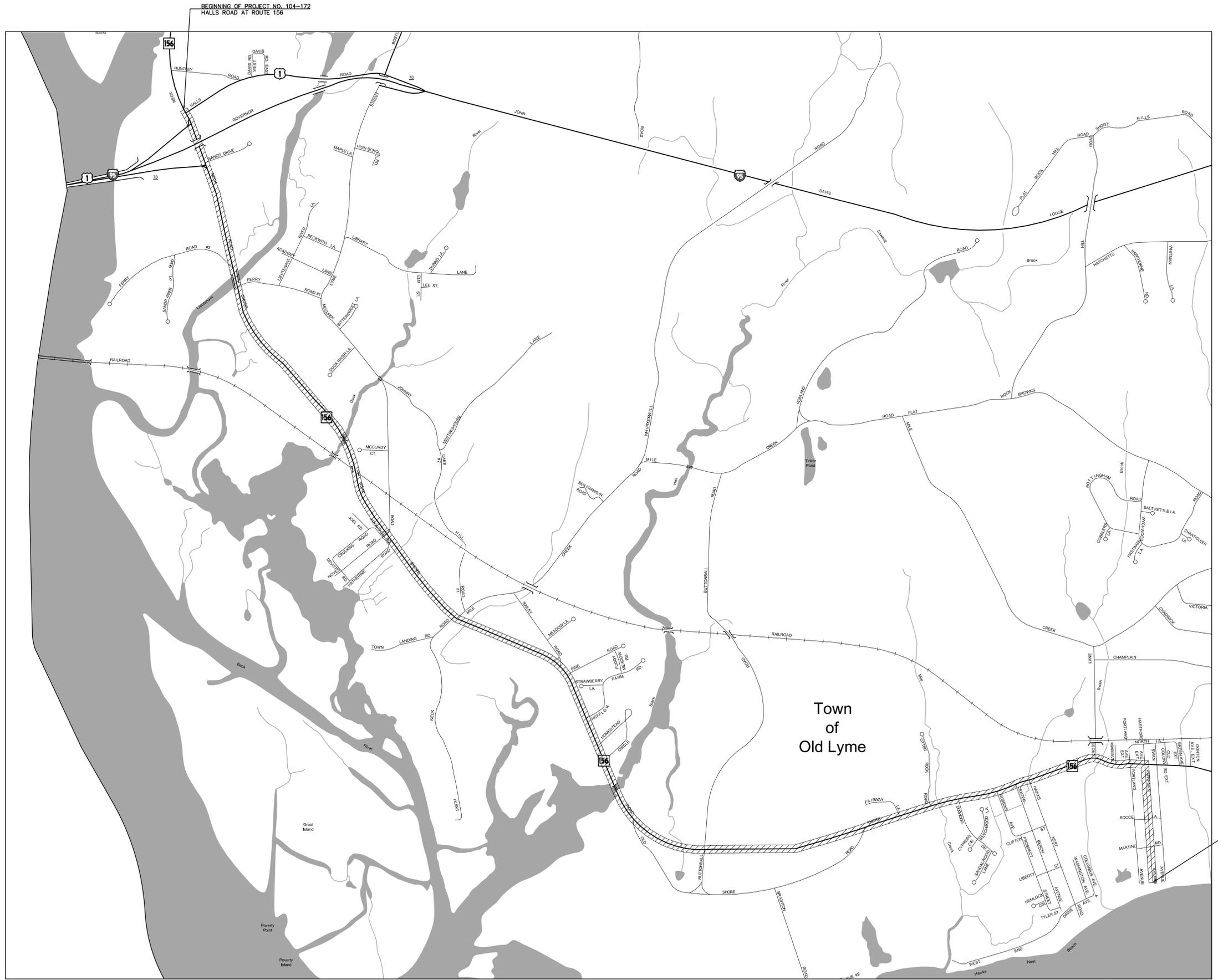
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BEGINNING OF PROJECT NO. 104-172  
HALLS ROAD AT ROUTE 156

END PROJECT NO. 104-172  
HARTFORD AVENUE AT POND ROAD

# ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172

IN  
OLD LYME  
CONNECTICUT

## OVERALL AREA PLAN

APRIL 12, 2016

REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
300 Winding Brook Drive  
Glastonbury, Connecticut 06033  
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SCALE: 1" = 1000'  
0 500 1000 2000 FEET

FILE: P:\8348702\Civil\Drawings\8348702-EXC.dwg  
DWG. NO:  
JOB. NO: 83487.02

OV-100

# KEY MAP



OLD LYME, CONNECTICUT

REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



KENNETH J. COOPER, L.S. No. 70047

RIGHT OF WAY  
AND  
PROPERTY SURVEY  
OF  
LANDS OF  
THE TOWN OF  
OLD LYME

SHORE ROAD,  
HARTFORD AVENUE,  
PORTLAND AVENUE,  
BOCCE LANE,  
MARTINO ROAD &  
POND ROAD

SITUATED IN THE  
TOWN OF OLD LYME,  
COUNTY OF NEW LONDON,  
STATE OF CONNECTICUT

JULY 29, 2014

REVISIONS:

NO.	DATE	DESC.
1	8/22/14	PER TOWN COMMENTS

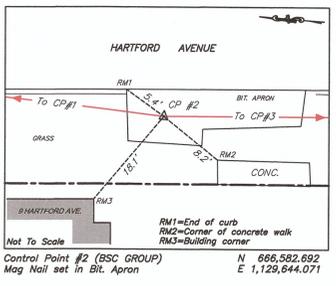
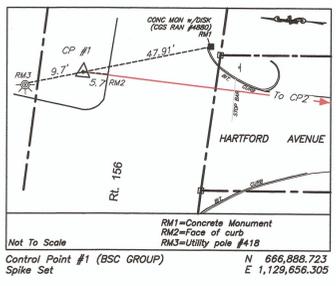
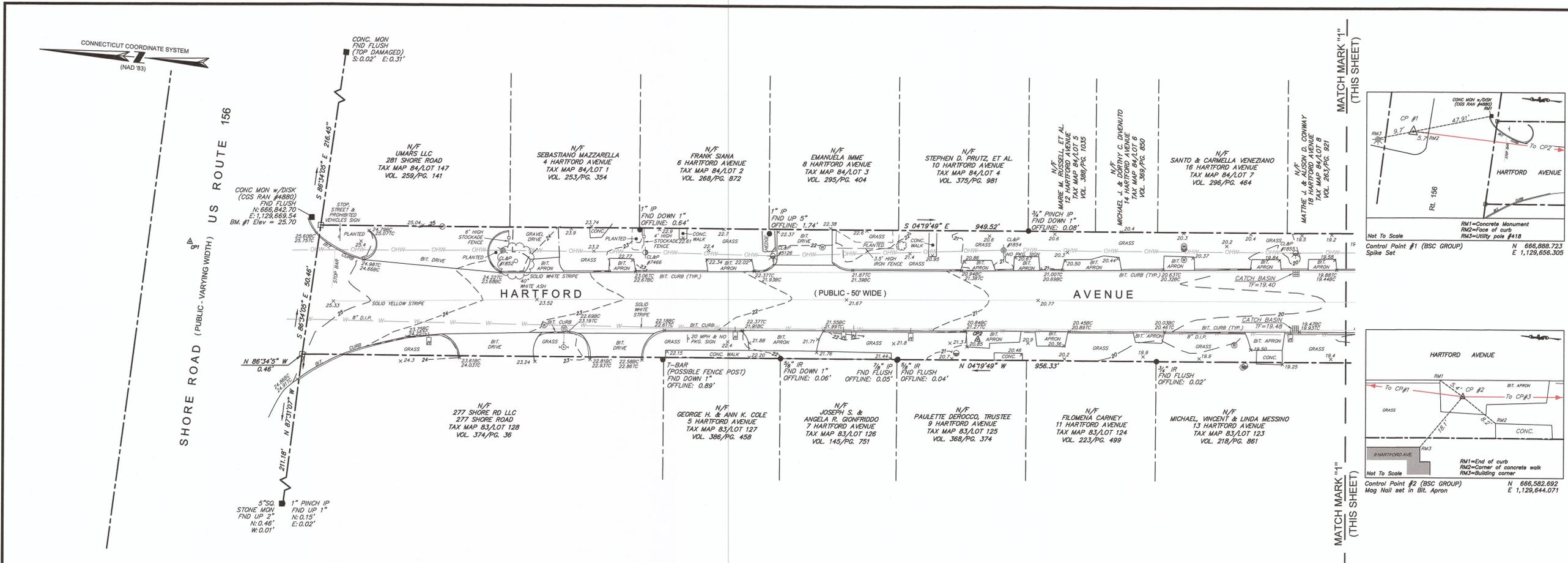
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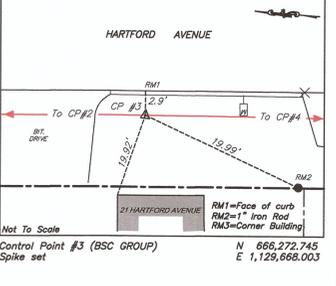
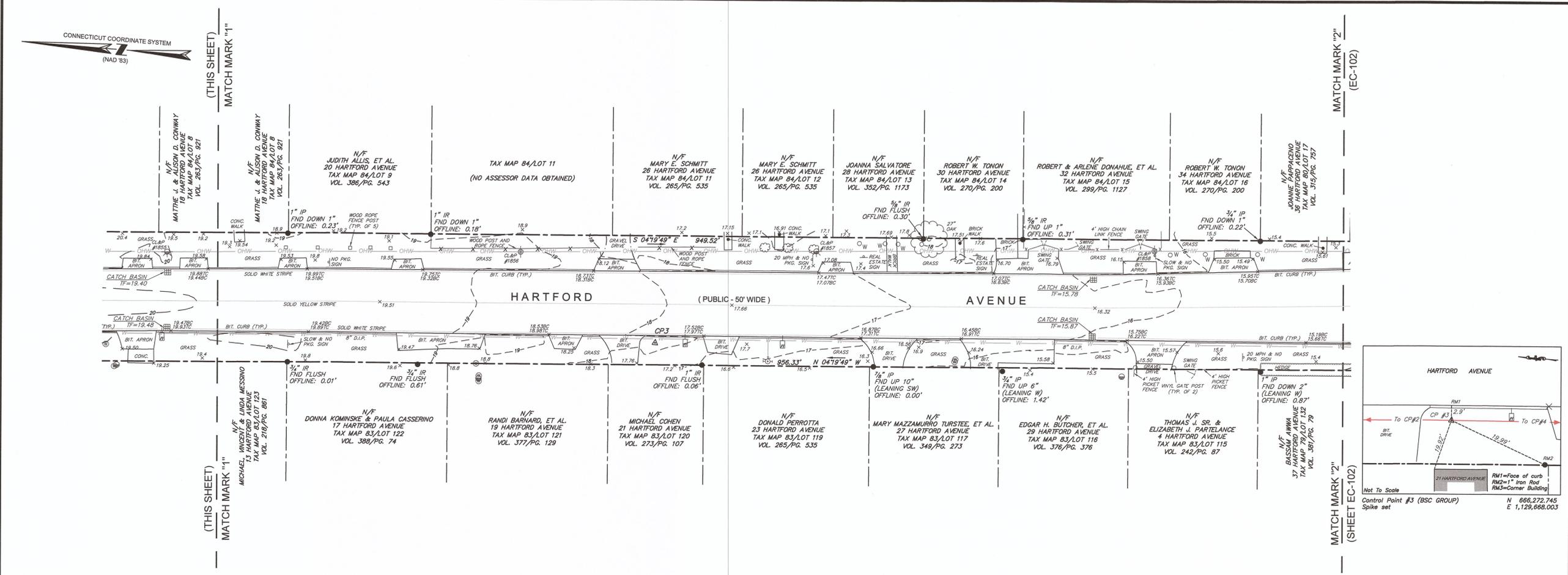
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JOB. NO: 83487.02 | SHEET EC-100



SEE SHEET EC-105 FOR SURVEYOR'S NOTES AND MAP REFERENCES, SEE SHEET EC-104 FOR LEGEND



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KENNETH J. COOPER, L.S. No. 70047

RIGHT OF WAY AND PROPERTY SURVEY OF LANDS OF THE TOWN OF OLD LYME

SHORE ROAD, HARTFORD AVENUE, PORTLAND AVENUE, BOCCCE LANE, MARTINO ROAD & POND ROAD

SITUATED IN THE TOWN OF OLD LYME, COUNTY OF NEW LONDON, STATE OF CONNECTICUT

JULY 29, 2014

REVISIONS:

NO.	DATE	DESC.
1	8/22/14	PER TOWN COMMENTS
2	3/24/16	ADDED CONTROL TIES

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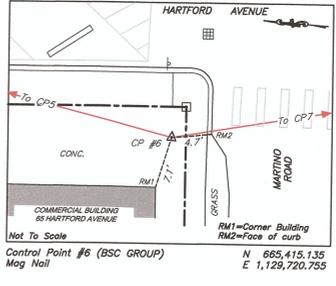
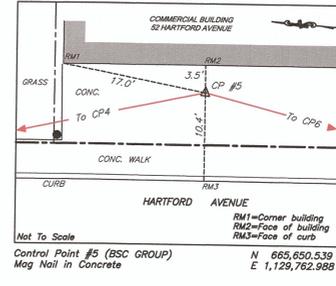
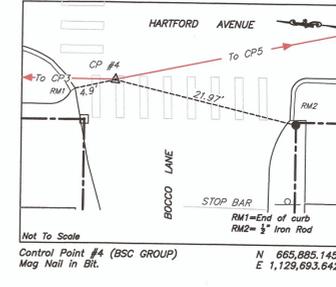
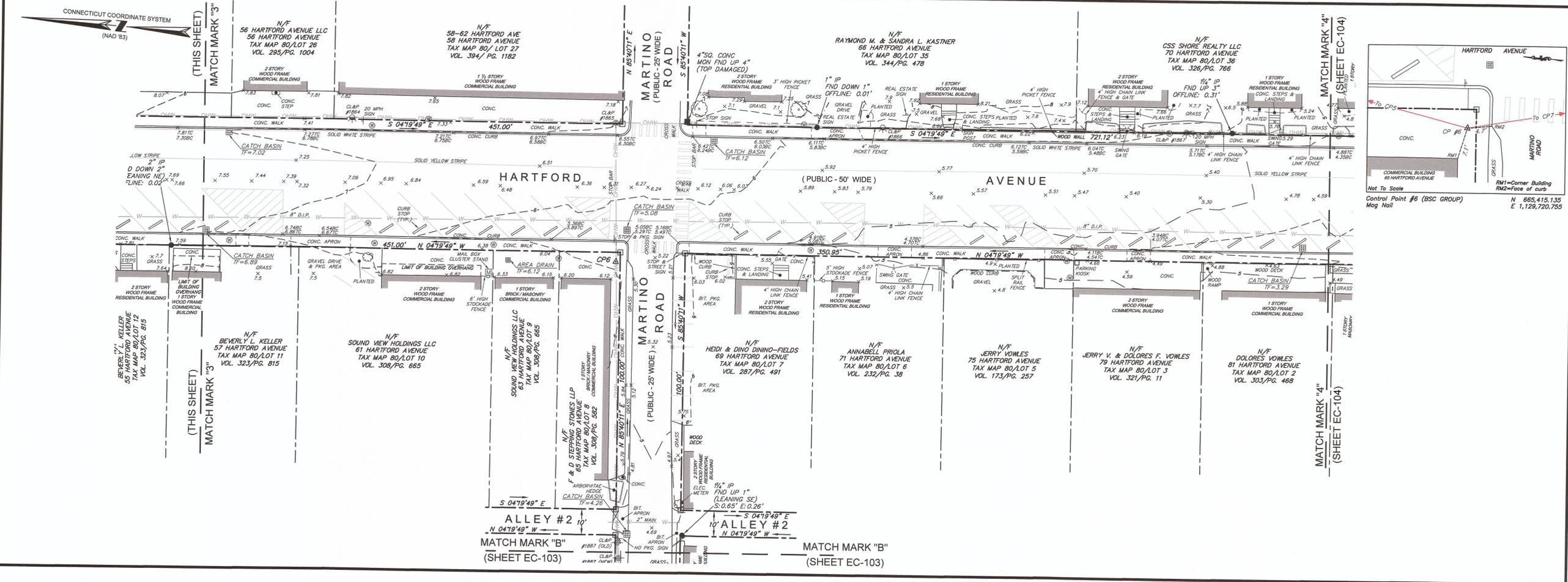
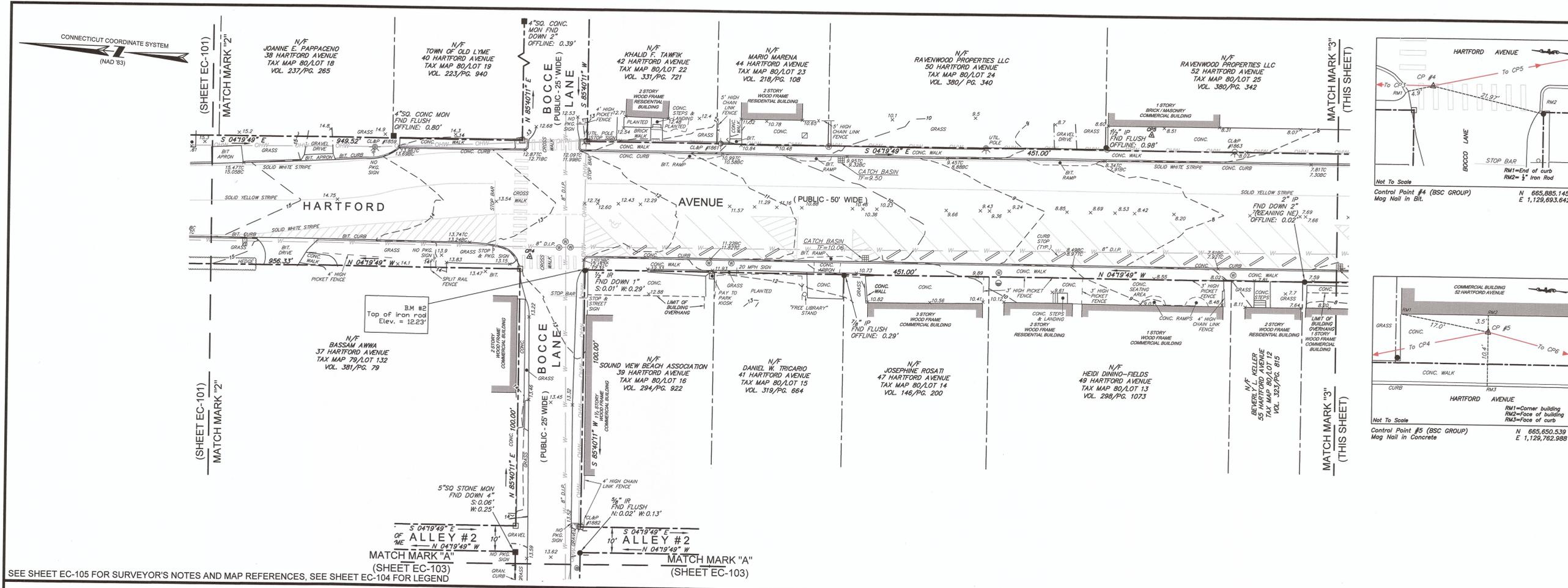
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SITUATED IN THE TOWN OF OLD LYME, COUNTY OF NEW LONDON, STATE OF CONNECTICUT

JULY 29, 2014

NO.	DATE	DESC.
1	8/22/14	PER TOWN COMMENTS
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FB: 942/1 DRAWN BY: RPD CHECK BY: KJC

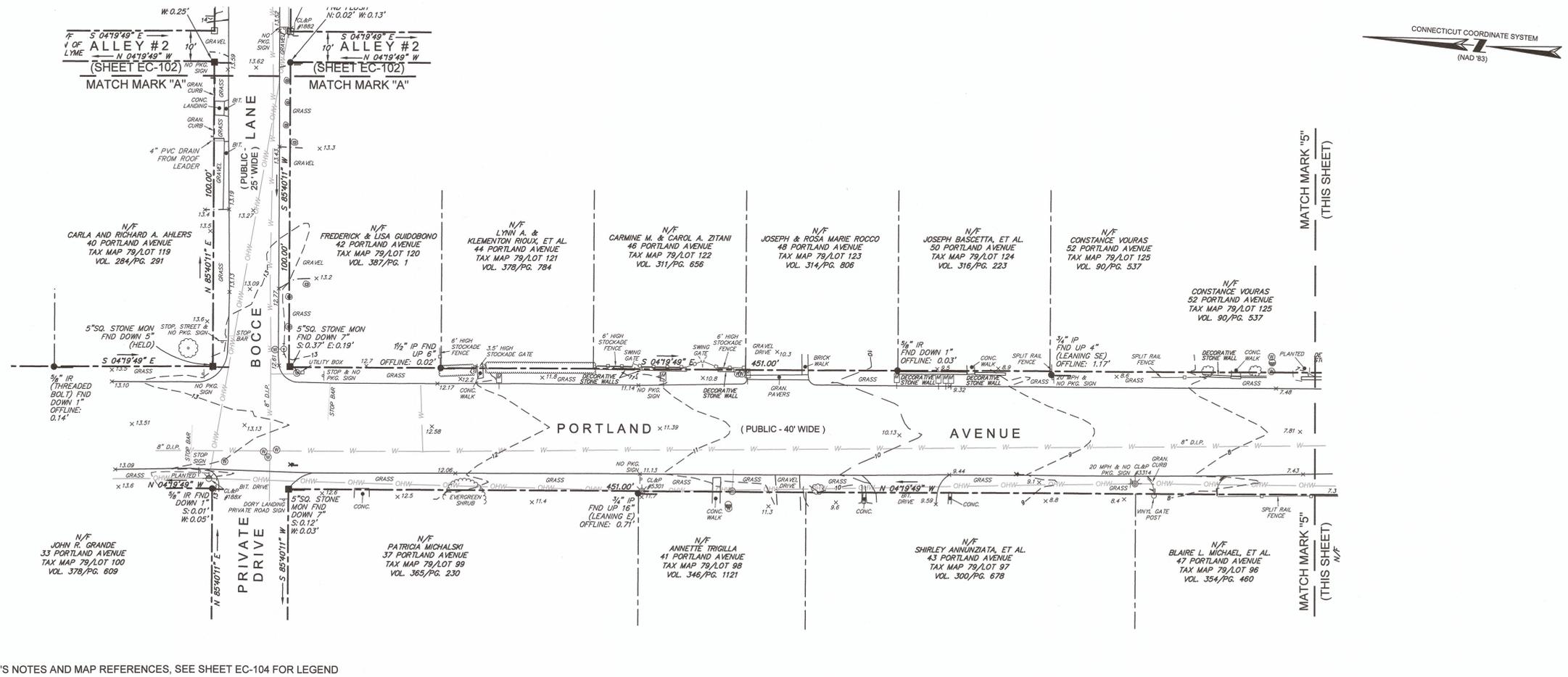
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52 LYME STREET  
OLD LYME, CT 06371



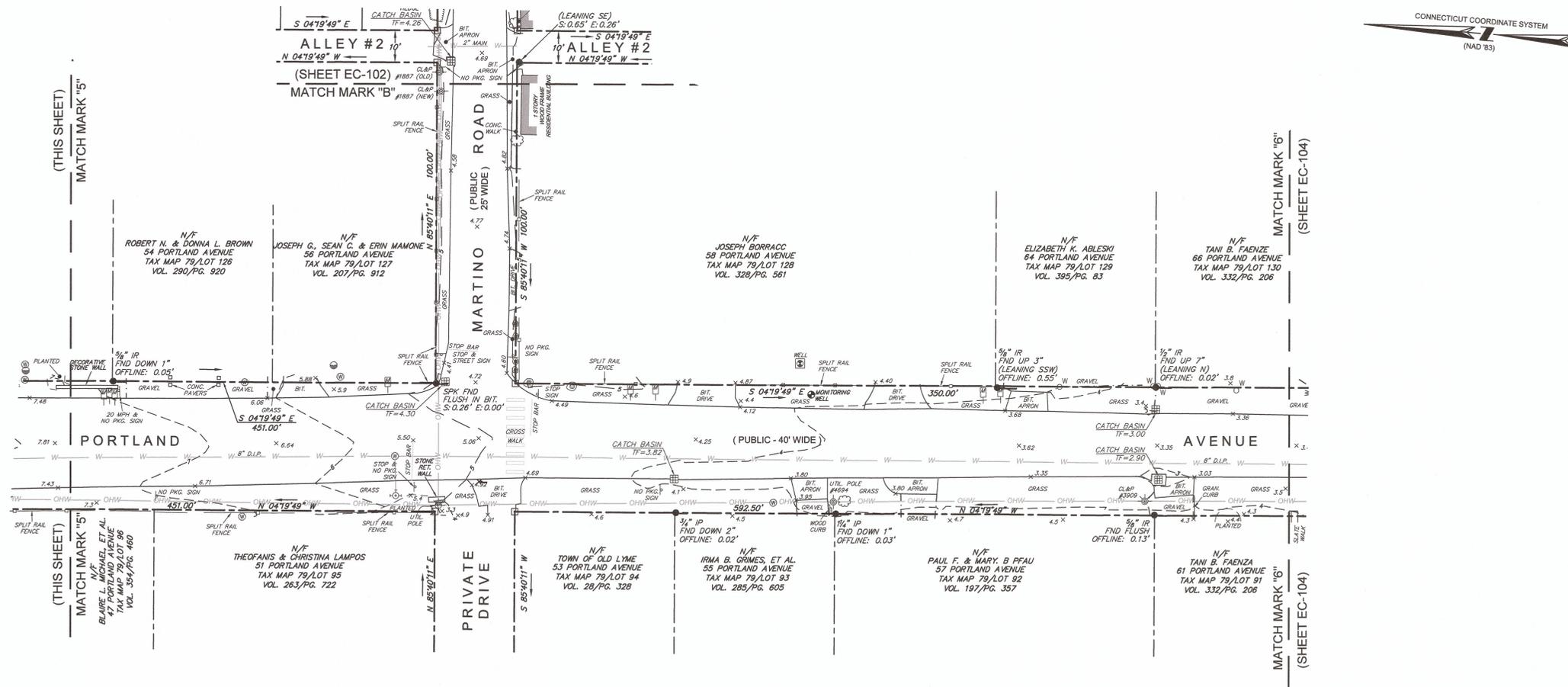
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RIGHT OF WAY AND PROPERTY SURVEY OF LANDS OF THE TOWN OF OLD LYME

SHORE ROAD, HARTFORD AVENUE, PORTLAND AVENUE, BOCCE LANE, MARTINO ROAD & POND ROAD

SITUATED IN THE TOWN OF OLD LYME, COUNTY OF NEW LONDON, STATE OF CONNECTICUT

JULY 29, 2014

REVISIONS:	
NO.	DESC.
1	8/22/14 PER TOWN COMMENTS

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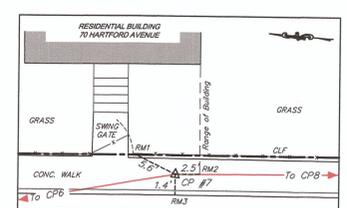
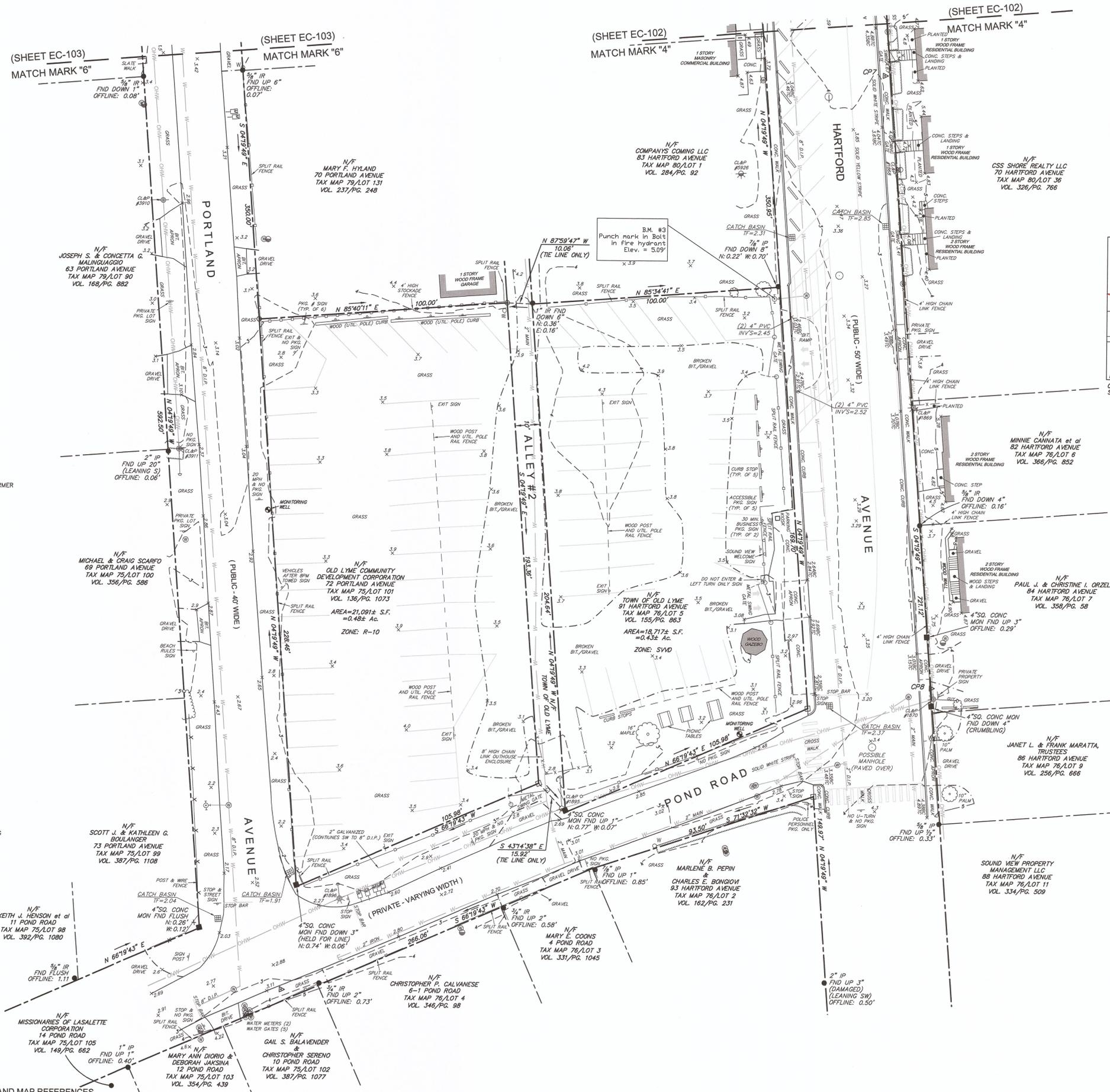
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52 LYME STREET  
OLD LYME, CT 06371



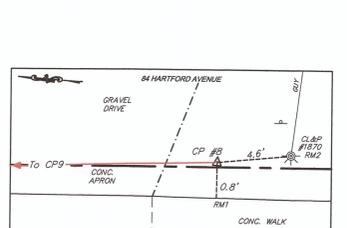
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KENNETH J. COOPER, L.S. No. 70047

### RIGHT OF WAY AND PROPERTY SURVEY OF LANDS OF THE TOWN OF OLD LYME

SHORE ROAD, HARTFORD AVENUE, PORTLAND AVENUE, BOCCIE LANE, MARTINO ROAD & POND ROAD

SITUATED IN THE TOWN OF OLD LYME, COUNTY OF NEW LONDON, STATE OF CONNECTICUT

JULY 29, 2014

NO.	DATE	DESC.
1	8/22/14	PER TOWN COMMENTS
2	3/24/16	ADDED CONTROL TIES

NO.	DATE	DESC.

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PREPARED FOR:  
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OLD LYME, CT 06371



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JOB. NO: 83487.02 SHEET EC-104

SEE SHEET EC-105 FOR SURVEYOR'S NOTES AND MAP REFERENCES

**SURVEYOR'S NOTES:**

- THIS SURVEY AND MAP HAVE 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 ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.  
  
TYPE OF SURVEY: RIGHT OF WAY AND PROPERTY SURVEY  
BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY  
CLASS OF HORIZONTAL ACCURACY: CLASS A-2  
CLASS OF TOPOGRAPHIC ACCURACY: CLASS T-2  
THE INTENT OF THIS SURVEY AND MAP: TO SUPPORT THE DESIGN OF SITE IMPROVEMENTS.
- THE FIELD SURVEY WAS PERFORMED ON THE GROUND WITH AN EDM TOTAL STATION IN JUNE AND JULY OF 2014. THE CONTOUR INTERVAL SHOWN IS 1-FOOT.
- THE REFERENCE MERIDIAN (NORTH ARROW) SHOWN IS BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD '83) AS DETERMINED FROM GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS. THE VERTICAL DATUM UTILIZED IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS DETERMINED FROM GPS OBSERVATIONS.
- A PORTION OF THE PARCEL DESIGNATED AS TAX MAP 75/ LOT 101 MAY BE SUBJECT TO CERTAIN RESTRICTIONS (INCLUDING BUILDING AND VERANDA LINE SETBACK DISTANCES FROM PORTLAND AVENUE). REFERENCE IS MADE TO A DOCUMENT FILED IN THE LAND RECORDS OF THE TOWN OF OLD LYME AT VOLUME 38, PAGE 603. IT IS UNCERTAIN IF ANY OR ALL OF THE RESTRICTIONS STILL APPLY TO THE AFOREMENTIONED PARCEL AT THE TIME OF THIS SURVEY.
- PIPE ELEVATIONS WERE NOT OBTAINED DURING THE FIELD SURVEY. DRAINAGE STRUCTURES WERE WATER/POSSIBLE DEBRIS FILLED.
- EXISTING UTILITIES, WHERE DEPICTED HEREON, ARE APPROXIMATE. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION, OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. CONSULT WITH THE APPROPRIATE UTILITY COMPANY OR AGENCY PRIOR TO DESIGNING IMPROVEMENTS AND, COMMENCING DEMOLITION OR CONSTRUCTION. "CALL BEFORE YOU DIG" 1-800-922-4465.

**MAP REFERENCES:**

- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF OLD LYME, CONNECTICUT TURNPIKE FROM THE CONNECTICUT RIVER EASTERLY TO MAIN STREET", NUMBER 104-11, SHEETS: 1-2 OF 2, SCALE: 1" = 80', DATED: MARCH 13, 1964, REVISED: NOVEMBER 26, 1990 (SHEET 1), JUNE 6, 1990 (SHEET 2), PROVIDED TO THE BSC GROUP BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION OFFICE OF CENTRAL SURVEYS.
- "CONNECTICUT DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAYS, RIGHT OF WAY MAP, TOWN OF OLD LYME, SHORE ROAD, FROM INTERSTATE ROUTE 95 SOUTHEASTERLY APPROXIMATELY 7500' TO MCCURDY ROAD", NUMBER 104-12, SHEETS: 1-6 OF 6, SCALE: 1" = 40', DATED: NOVEMBER 26, 1990, PROVIDED TO THE BSC GROUP BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION OFFICE OF CENTRAL SURVEYS.
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF OLD LYME, SHORE ROAD FROM THE RAIL ROAD UNDERPASS SOUTHEASTERLY TO SHORE ROAD REST", NUMBER 104-07, SHEETS: 2-6 OF 6, SCALE: 1" = 40', DATED: APRIL 23, 1959, REVISED: JANUARY 12, 1983 (SHEET 3), FEBRUARY 28, 1968 (SHEET 6), PROVIDED TO THE BSC GROUP BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION OFFICE OF CENTRAL SURVEYS.
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF OLD LYME, SHORE ROAD FROM MILE CREEK WESTERLY & NORTHERLY TO BLACK HALL RIVER, ROUTE No. 156", NUMBER 104-06, SHEET: 1 OF 3, SCALE: 1" = 40', DATED: NOV. 29, 1939, REVISED THROUGH: FEBRUARY 28, 1968, PROVIDED TO THE BSC GROUP BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION OFFICE OF CENTRAL SURVEYS.
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF OLD LYME, SHORE ROAD FROM MILE CREEK EASTERLY TO THE SOUTH LYME STATION, ROUTE No. 156", NUMBER 104-02, SHEETS: 1-2 OF 4, SCALE: 1" = 40', DATED: NOV. 30, 1932, REVISED THROUGH: JANUARY 10, 1992 (SHEET 1), AUG. 27, 1959 (SHEET 2), PROVIDED TO THE BSC GROUP BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION OFFICE OF CENTRAL SURVEYS.
- "LAND OF H.J. HILLIARD", SCALE: 1" = 200', FILED ON: FEB. 7, 1895, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #38.
- "PLAN No. 1 OF THE SOUND VIEW LAND COMPANY, PROPERTY AT SOUND VIEW BEACH, OLD LYME, CONN.", SCALE: GRAPHIC SCALE ONLY, DATED: JUNE, 1904, PREPARED BY ROBERT B. GORTON, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #43.
- "MAP OF PROPERTY NOW OR FORMERLY BELONGING TO HARRY J. HILLIARD, SOUND VIEW, TOWN OF OLD LYME, CT.", SCALE: 1" = 60', DATED: OCT. 9, '08, PREPARED BY PERRY T.W. HALE, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #44.
- "PLAN OF PROPERTY NOW OR FORMERLY BELONGING TO HARRY J. HILLIARD, SOUND VIEW, TOWN OF OLD LYME, CT.", SCALE: 1" = 80', DATED: OCT. 9, '08, PREPARED BY PERRY T.W. HALE, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #45.
- "PLAN No. 2 OF THE PROPERTY OF THE SOUND VIEW LAND COMPANY AT SOUND VIEW BEACH, OLD LYME, CONN.", SCALE: 1" = 60', DATED: JULY 11, 1914, PREPARED BY ROBERT B. GORTON, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #46.
- "PLAN OF BUILDING LOTS, PROPERTY OF H.J. HILLIARD, SECTION D, SOUNDVIEW, TOWN OF OLD LYME, CONN.", SCALE: 1" = 80', DATED: OCT. 1914, PREPARED BY M. W. GEER, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #48.
- "LAND OF H. J. HILLIARD AT SOUND VIEW, TOWN OF OLD LYME, CT., SWAMP SECTION", SCALE: 1" = 40', DATED: JULY, 1925, PREPARED BY DABOLL AND CRANDALL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #49.
- "PLAN OF BUILDING LOTS BELONGING TO H. J. HILLIARD, SECTION D, EXTENSION, SOUND VIEW, TOWN OF OLD LYME, CT.", SCALE: 1" = 80', DATED: JULY, 1825, PREPARED BY DABOLL AND CRANDALL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #50.
- "NORTH SECTION OF LAND OF H. J. HILLIARD AT SOUND VIEW, OLD LYME, CT.", SCALE: 1" = 80', DATED: JULY, 1925, PREPARED BY DABOLL AND CRANDALL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #51.
- "LAND OF H. J. HILLIARD AT SOUND VIEW, OLD LYME, CT., LOTS WEST OF PORTLAND AVENUE", SCALE: 1" = 40', DATED: JUNE, 1937, PREPARED BY L. E. DABOLL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #54.
- "BUILDING LOTS AT SOUND VIEW, OLD LYME, CONN., BELONGING TO H. J. HILLIARD, SECTION WEST OF PORTLAND AVENUE BETWEEN CROSS ROADS No. 1 AND No. 2", SCALE: 1" = 40', DATED: AUGUST, 1940, PREPARED BY L. E. DABOLL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #55.
- "BUILDING LOTS AT SOUND VIEW, OLD LYME, CONN., BELONGING TO H. J. HILLIARD, SECTION WEST OF PORTLAND AVE. BETWEEN CROSS ROADS No. 2 AND No. 3", SCALE: 1" = 40', DATED: AUGUST, 1938, PREPARED BY L. E. DABOLL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #56.
- "BUILDING LOTS AT SOUND VIEW, OLD LYME, CONN., BELONGING TO H. J. HILLIARD", SCALE: 1" = 40', FILED ON: 7-9-37, PREPARED BY L. E. DABOLL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #57.
- "LAND OF H. J. HILLIARD AT SOUND VIEW, TOWN OF OLD LYME, CONN., LOTS EAST SIDE OF MORGAN AVENUE", SCALE: 1" = 40', DATED: SEPT. 1941, PREPARED BY L. E. DABOLL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #58.
- "PLAN OF PROPERTY AT SOUND VIEW, OLD LYME, CT., BELONGING TO H. J. HILLIARD", SCALE: 1" = 80', DATED: NOV. 1941, PREPARED BY L. E. DABOLL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #59.
- "PROPOSED RESERVATION FOR WATER SYSTEM, PROPERTY OF H. J. HILLIARD AT SOUND VIEW, OLD LYME, CONN.", SCALE: 1" = 80', DATED: SEPT. 1926, PREPARED BY H. W. GEER, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #60.
- "PROPOSED RESERVATION FOR WATER SYSTEM ON PROPERTY OF H. J. HILLIARD AT SOUND VIEW, OLD LYME, CONN.", SCALE: 1" = 40', REVISED: DEC., 1939, PREPARED BY L. E. DABOLL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #61.
- "SOUND VIEW SHORES, OLD LYME, CONN., JAS. JAY SMITH CO., EXCLUSIVE AGENT, OLD LYME, CONN.", SCALE: GRAPHIC SCALE ONLY, FILED ON: 12-1-31, PREPARED BY DABOLL AND CRANDALL, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #63.
- "SUBDIVISION PLAN, PROPERTY OF JOSEPH W. MARINONE, SHORE ROAD AND HARTFORD ROAD, OLD LYME, CONN.", SCALE: ILLEGIBLE, DATED: JANUARY 29, 1964, REVISED?: FEB 11, 1964 (POSSIBLE REVISION - ILLEGIBLE), PREPARED BY: ILLEGIBLE, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1011.
- "LAND TO BE CONVEYED TO SWAN AVENUE CORP. FROM ELIZABETH C. DOYLE, OLD LYME, CONN.", SCALE: 1" = 10', DATED: APRIL 5, 1963, REVISED: APRIL 15, 1963, PREPARED BY RADCLIFFE & ROSS, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1103.
- "PROPERTY OF EVELYN G. LEVITZ, HARTFORD AVENUE, SOUND VIEW", SCALE: ILLEGIBLE, DATED: ILLEGIBLE, PREPARED BY: ILLEGIBLE, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1111.
- "SOUND VIEW, MAP SHOWING PROPERTY ON THE WEST SIDE OF HARTFORD AVENUE, OLD LYME, CONN.", SCALE: 1" = 40', DATED: JUNE, 1961, PREPARED BY RADCLIFFE + ROSS, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1134.
- "SOUND VIEW, MAP SHOWING PROPERTY ON THE EAST SIDE OF HARTFORD AVENUE, OLD LYME, CONN., OWNED BY NICCOLA AND LUCY IMME, PROPERTY OWNED BY ROSE MARIE PEROTTA, AND PROPERTY TO BE CONVEYED TO NICCOLA AND LUCY IMME", SCALE: 1" = 40', DATED: JUNE, 1961, PREPARED BY RADCLIFFE AND ROSS, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1140.

- "PLAN INDICATING LAND ACQUIRED BY JAMES T. ROONEY, TOWN OF OLD LYME, CONN.", SCALE: 1" = 20', DATED: MAY, 1958, PREPARED BY D. S. VIBBERT, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1289.
- "PROPERTY OF TOWN OF OLD LYME, POND ROAD, EXT. OFF HARTFORD AVENUE, SOUND VIEW, OLD LYME, CONN.", SCALE: 1" = 10', DATED: 4/2/68, PREPARED BY SAMUEL S. GREENHUT, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1399.
- "MAP SHOWING CROSS ROAD NO. 3 SOUNDVIEW BETWEEN, PORTLAND AVENUE & HARTFORD AVENUE, OLD LYME, CONN.", SCALE: 1" = 10', DATED: 11/4/69, PREPARED BY SAMUEL GREENHUT, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1447.
- "MAP SHOWING ESTABLISHED ROAD RIGHT OF WAY LINES FOR: POND ROAD - SOUNDVIEW AREA, TOWN OF OLD LYME - OWNER, OLD LYME, CONN.", SCALE: 1" = 20', DATED: JULY 23, 1972, PREPARED BY COASTLINE ENGR'S. SURVEY SERVICES, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1557 AND 1557A.
- "PLOT PLAN SHOWING PROPERTY OF JOHN & ANGELA SPAZIANI, LOTS #282 & 283 PORTLAND AVE., OLD LYME, CONNECTICUT", SCALE: 1" = 40', DATED: SEPTEMBER, 1976, PREPARED BY RUSSELL J. CARLO, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1741.
- "SURVEY MAP PROPERTY OF V.S.H. REALTY, INC., SHORE ROAD & HARTFORD AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 10', DATED: JAN. 11, 1978, PREPARED BY ANGUS L. McDONALD & ASSOCIATES, INC., ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1751.
- "PROPERTY OF ROSILAND T. SHURKUS TO BE CONVEYED TO WILLIAM M. PIKE, SOUND VIEW, OLD LYME, CONN.", SCALE: 1" = 20', DATED: JUNE 1, 1978, PREPARED BY BOWKER SURVEYING & MAPPING CO., ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #1759.
- "CONDOMINIUMS ON LAND OF LEO D. & LEE GIATTINO, POND ROAD, OLD LYME, CT.", SCALE: 1" = 10', DATED: 10-15-82, PREPARED BY RICHARD W. GATES, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #2262.
- "MAP SHOWING CONDOMINIUMS ADJOINING LAND OF O.L.R.D., 70, 72, 74, 76, 78, 76-1, 78-1 HARTFORD AVENUE, OLD LYME, CONN.", SCALE: 1" = 10', DATED: AUGUST, 1986, PREPARED BY JOHN R. PUGLISI, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #2361.
- "BOUNDARY SURVEY, LAND OF ELIZABETH F. RAIA & ROGER A. RONDINI, HARTFORD AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 20', DATED: NOVEMBER 10, 1988, REVISED: DEC. 7, 1988, PREPARED BY DONALD R. CARLSON, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #2468.
- "PROPERTY OF MARY VECCHITTO, COLUMBO VECCHITTO, CELESTINA MAZZOTTA & MINNIE CANNATA, 80-82 HARTFORD AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 20', DATED: OCTOBER 8, 1991, PREPARED BY RUSSELL J. CARLO, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #2652.
- "MAP AND SURVEY PREPARED FOR THE TOWN OF OLD LYME", SCALE: 1" = 10', DATED: JULY 28, 1995, PREPARED BY HENDRIKS ASSOCIATES, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #2803.
- "COASTAL SITE PLAN - PROPOSED PARKING LAYOUT PREPARED FOR FRANK MARATTA, HARTFORD AND SWAN AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 10', DATED: JUNE 5, 1998, REVISED THROUGH: 7-10-98, PREPARED BY HENDRIKS ASSOCIATES, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3037.
- "EXISTING BUILDING LOCATION SURVEY PREPARED FOR JOSEPH E. SHEA, JR., #34, 36 & 40 POND ROAD, OLD LYME, CONNECTICUT", SCALE: 1" = 20', DATED: FEBRUARY 8, 2000, PREPARED BY PETER PARIZO SURVEYING AND ENGINEERING, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3071.
- "EXISTING BUILDING LOCATION SURVEY, PROPERTY OF BRUCE L. ELSTEIN, TRUSTEE, TO BE CONVEYED TO JON A. MANAFORT & JASON MANAFORT, AT 34 & 36 POND ROAD, OLD LYME, CONNECTICUT, ASSESSORS MAP 75, LOTS 112 & 113", SCALE: 1" = 20', DATED: SEPTEMBER 25, 2003, PREPARED BY KENNETH J. PICARD, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3266.
- "PROPERTY SURVEY, MAP DEPICTING PROPERTY OF JERRY AND DOLORES VOWLES, 77/79 HARTFORD AVENUE, OLD LYME, CT., SHEETS: 1-2 OF 2, SCALE: 1" = 10' (SHEET 1), 1" = 5' (SHEET 2), DATED: FEB. 23, 2005, PREPARED BY HENDRIKS ASSOCIATES, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3396 AND 3397.
- "PROPERTY SURVEY, MAP DEPICTING PROPERTY OF SOUND VIEW PROPERTY MANAGEMENT, LLC., 90-92 HARTFORD AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 20', DATED: JULY 27, 2006, PREPARED BY HENDRIKS ASSOCIATES, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3508.
- "PROPERTY SURVEY PREPARED FOR MICHAEL AND SOPHIA PSILLAS, 22 PORTLAND AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 20', DATED: JUNE 24, 2007, PREPARED BY MARTIN SURVEYING ASSOCIATES, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3587.
- "LOT LINE REVISION MAP FOR LOTS #14, #15 & #16 TAX MAP #84, PREPARED FOR ROBERT TONON, #30 & #34 HARTFORD AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 10', DATED: JANUARY 4, 2007, REVISED: 2-21-07, PREPARED BY KEVIN T. EWALD LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3596.
- "ZONING LOCATION SURVEY MAP DEPICTING EXISTING IMPROVEMENTS ON PROPERTY OF COMPANY'S COMING L.L.C., 83 HARTFORD AVE., OLD LYME, CONNECTICUT", SCALE: 1" = 10', DATED: JANUARY 7, 2008, REVISED THROUGH: 4-30-08, PREPARED BY HENDRIKS ASSOCIATES, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3623.
- "PLOT PLAN, IMPROVEMENT LOCATION SURVEY - PROPOSED, PROJECT NAME: RAY KASTNER, 64 & 66 HARTFORD AVENUE, OLD LYME, CT, PREPARED FOR RAY KASTNER, 115 RESERVOIR RIDGE DRIVE, SOUTHTONING, CT 06489", SHEET: 1 OF 2, SCALE: 1" = 20', DATED: FEBRUARY 6, 2007, REVISED THROUGH: JAN. 4, 2008, PREPARED BY HARRY E. COLE & SON, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3624.
- "SURVEY PREPARED FOR FREDERICK GUIDOBONO, 42 PORTLAND AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 20', DATED: 09/14/12, REVISED THROUGH: 12/31/12, PREPARED BY COMPASS LAND SURVEYING, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3918.
- "MAP OF PROPERTY OWNED BY BASSAM AWWA, 37 HARTFORD AVENUE, OLD LYME, CONNECTICUT", SCALE: 1" = 10', DATED: FEBRUARY 26, 2013, PREPARED BY LAND SURVEYING SERVICES, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3939.
- "LIMITED PROPERTY/BOUNDARY SURVEY PREPARED FOR MIAMI BEACH ASSOCIATES, INC., POND ROAD, OLD LYME, CONNECTICUT", SCALE: 1" = 20', DATED: MARCH 25, 2013, REVISED: 4/19/2013, PREPARED BY JONES ENGINEERING, LLC, ON FILE IN THE TOWN OF OLD LYME LAND RECORDS AS MAP #3942.

REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



KENNETH J. COOPER, L.S. No. 70047

**RIGHT OF WAY AND PROPERTY SURVEY OF LANDS OF THE TOWN OF OLD LYME**

**SHORE ROAD, HARTFORD AVENUE, PORTLAND AVENUE, BOCCCE LANE, MARTINO ROAD & POND ROAD**

**SITUATED IN THE TOWN OF OLD LYME, COUNTY OF NEW LONDON, STATE OF CONNECTICUT**

**JULY 29, 2014**

REVISIONS:		
NO.	DATE	DESC.
1	8/22/14	PER TOWN COMMENTS

FB: 942/1 | DRAWN BY: RPD | CHECK BY: KJC

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
300 Winding Brook Drive  
Glastonbury, CT 06033  
860 652 8227

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FILE: P:\prj\8348702\Survey\Drawings  
DWG. NO: SOUNDVIEW-XCP  
JOB. NO: 83487.02 | SHEET EC-105

**LEGEND**  
 - - - - - RIGHT-OF-WAY (R.O.W.)  
 - SEDIMENT CONTROL SYSTEM AT CATCH BASIN  
 - SEDIMENTATION CONTROL SYSTEM (S.C.S.)

REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
**OLD LYME CONNECTICUT**  
**EROSION & SEDIMENTATION CONTROL PLAN**

JUNE 9, 2016

**REVISIONS:**

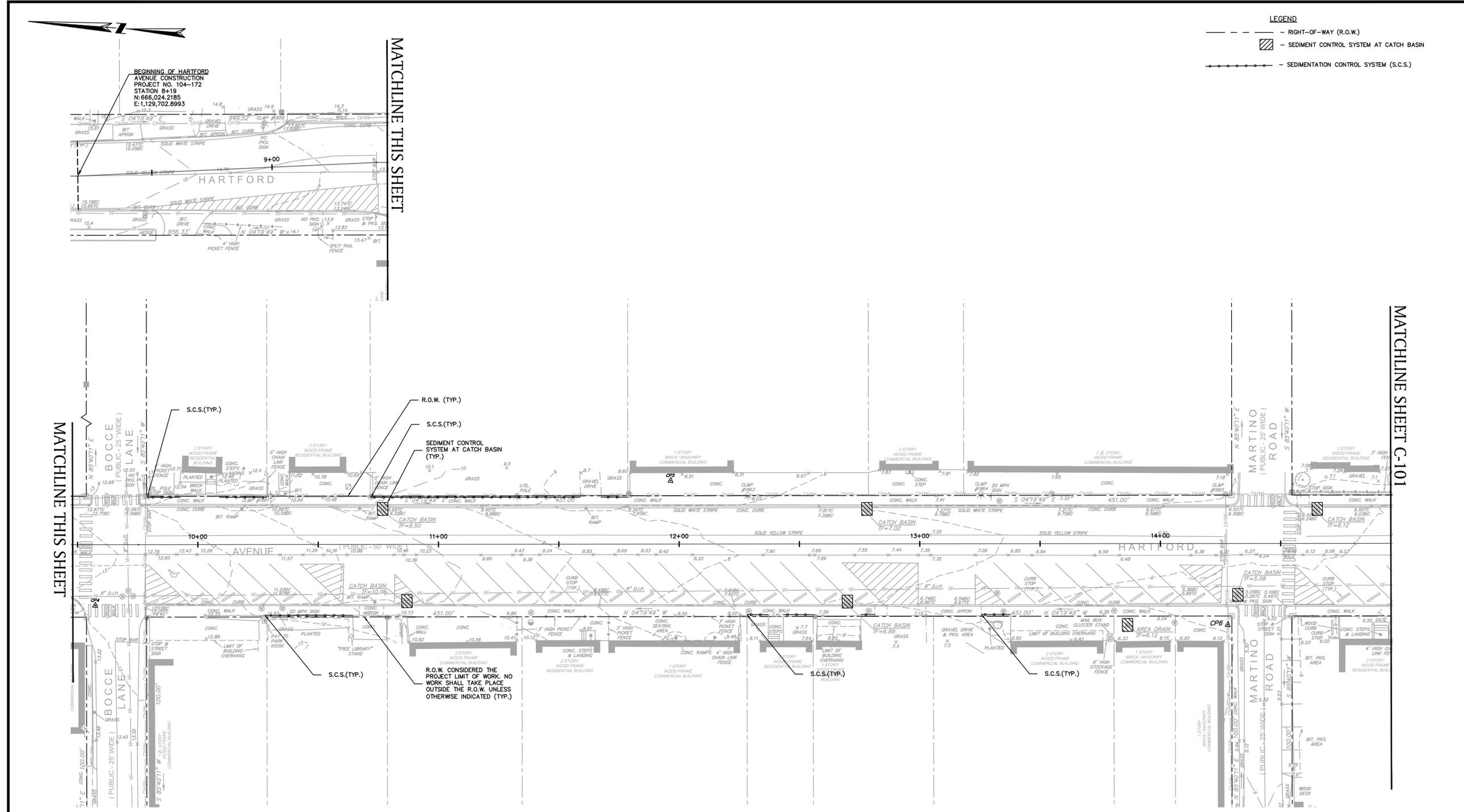
NO.	DATE	DESC.

PREPARED FOR:  
 TOWN OF OLD LYME  
 52 LYME STREET  
 OLD LYME, CT 06371

**BSC GROUP**  
 300 Winding Brook Drive  
 Glastonbury, Connecticut 06033  
 860 652 8227

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 SCALE: 1" = 20'  


FILE: P:\8348702\Civil\Drawings\8348702-ES.dwg  
 DWG. NO:  
 JOB. NO: 83487.02 **C-100**



- NOTES:**
- THIS PLAN IS FOR EROSION AND SEDIMENTATION (E&S) CONTROL ONLY. SEE OTHER PLANS FOR THE SCOPE OF CONSTRUCTION WORK.
  - DO NOT PROCEED WITH THE WORK UNTIL ALL E&S CONTROL MEASURES ARE IN-PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER.
  - THE MEASURES SPECIFIED HEREON ARE THE MINIMUM REQUIREMENTS FOR E&S CONTROL AND ARE SHOWN IN GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL E&S CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO THE DRAINAGE SYSTEM OR ANY RESOURCE AREAS. PROVIDE ADDITIONAL E&S MEASURES AS REQUIRED TO CONTROL EROSION AND SILTATION THROUGHOUT THE DURATION OF THE CONSTRUCTION AS CONDITIONS DICTATE AND/OR AS DIRECTED BY THE OWNER OR THE ENGINEER.
  - MONITOR AND INSPECT ALL E&S MEASURES IN AN ONGOING MANNER THROUGHOUT THE WORK AND TAKE CORRECTIVE MEASURES, AS REQUIRED, TO MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS.
  - ANY EROSION AND SEDIMENTATION MEASURE IMPLEMENTED BEYOND THAT SHOWN HEREON SHALL CONFORM TO APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT'S 2002 'CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.'
  - ANY STOCKPILED MATERIAL SHALL BE SUBJECT TO EROSION CONTROL MEASURES THAT INCLUDE A MINIMUM OF SILT FENCE OR HAY BALE BARRIER COVER STOCKPILES IF SIGNIFICANT RAINFALL IS PREDICTED.
  - NO RUNOFF SHALL BE ALLOWED TO ENTER THE STORMWATER SYSTEM OR EXIT THE WORK AREA PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.
  - THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS. ALL TRASH SHALL BE CLEANED ON A DAILY BASIS AND THE SITE SHALL BE LEFT IN A NEAT CONDITION AT THE END OF EACH WORK DAY.
  - TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS AND ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION, CONTROL, AND RESPONSE.
  - FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER AND MAINTAIN ADEQUATE MOISTURE LEVELS OR AS DIRECTED BY ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
  - SWEEP THE ROADWAYS IF MUD OR SOIL IS TRACKED ONTO IT, OR AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
  - SEDIMENT CONTROL SYSTEM AT CATCH BASIN SHALL BE INSTALLED AND CLEANED/CHANGED PER THE MANUFACTURER'S RECOMMENDATIONS. UNITS SHALL BE INSTALLED COMPLETELY AROUND INLETS OF EXISTING AND PROPOSED DRAINAGE STRUCTURES SUCH THAT NO RUNOFF IS ALLOWED TO ENTER DRAINAGE SYSTEMS WITHOUT FILTERING THROUGH THE DEVICE.



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
**OLD LYME CONNECTICUT**

**EROSION & SEDIMENTATION CONTROL PLAN**

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

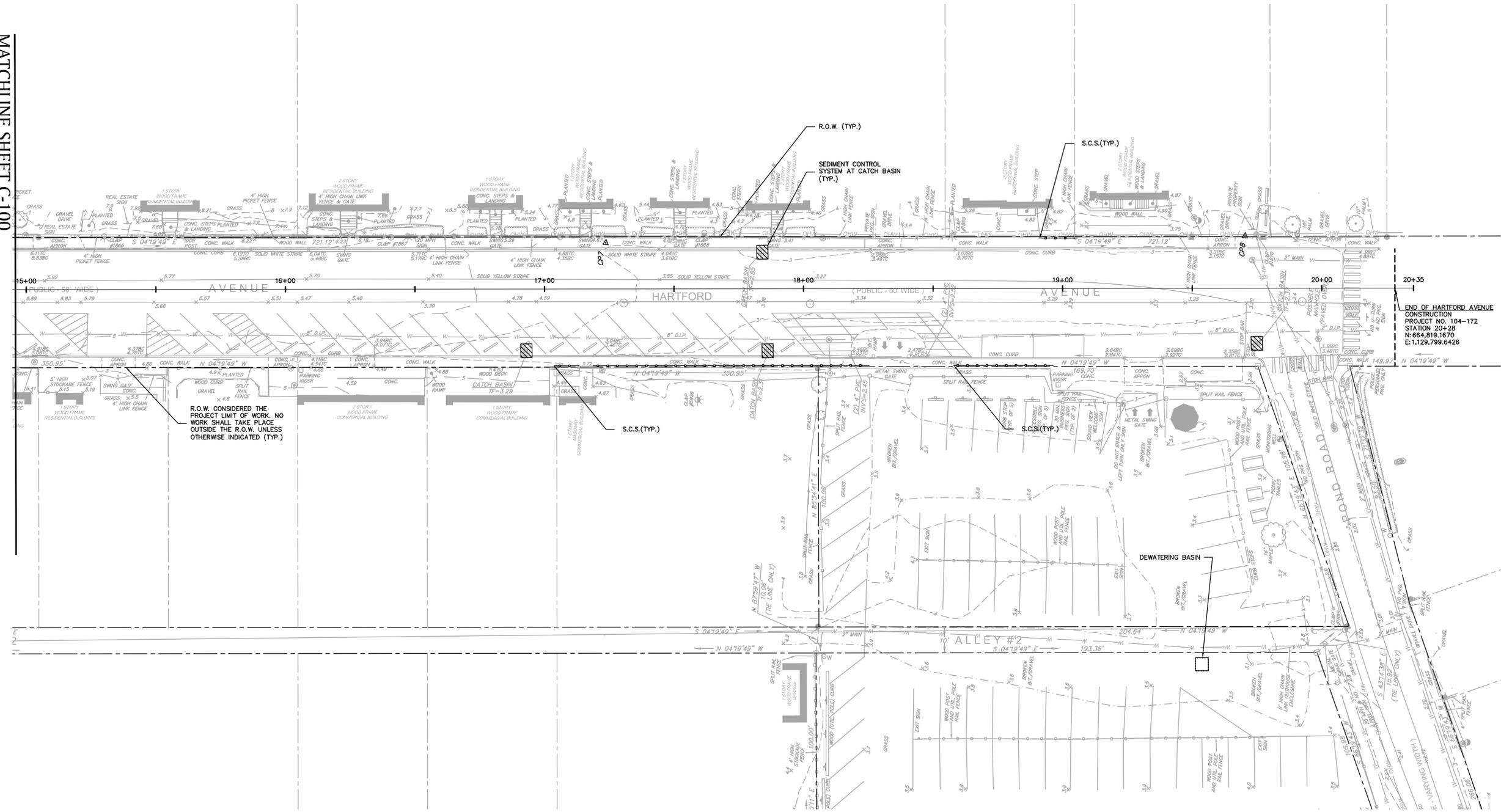
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DWG. NO:  
JOB. NO: 83487.02

**C-101**

MATCHLINE SHEET C-100



**NOTE:**  
1. SEE SHEET C-100 FOR EROSION & SEDIMENTATION CONTROL NOTES AND LEGEND.

REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.

**LEGEND**

---	SAWCUT BITUMINOUS PAVEMENT
- - - -	RIGHT-OF-WAY (R.O.W.)
R&D	REMOVE AND DISPOSE OF
R&R	REMOVE AND RESET
①	AREA OF WORK OUTSIDE OF R.O.W. SUBJECT TO TEMPORARY RIGHTS AGREEMENT (SEE TABLE FOR LOCATION)
▨	AREA OF WORK OUTSIDE OF R.O.W. NOT SUBJECT TO TEMPORARY RIGHTS (TOWN-OWNED)



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
OLD LYME  
CONNECTICUT

**SITE PREPARATION PLAN**

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

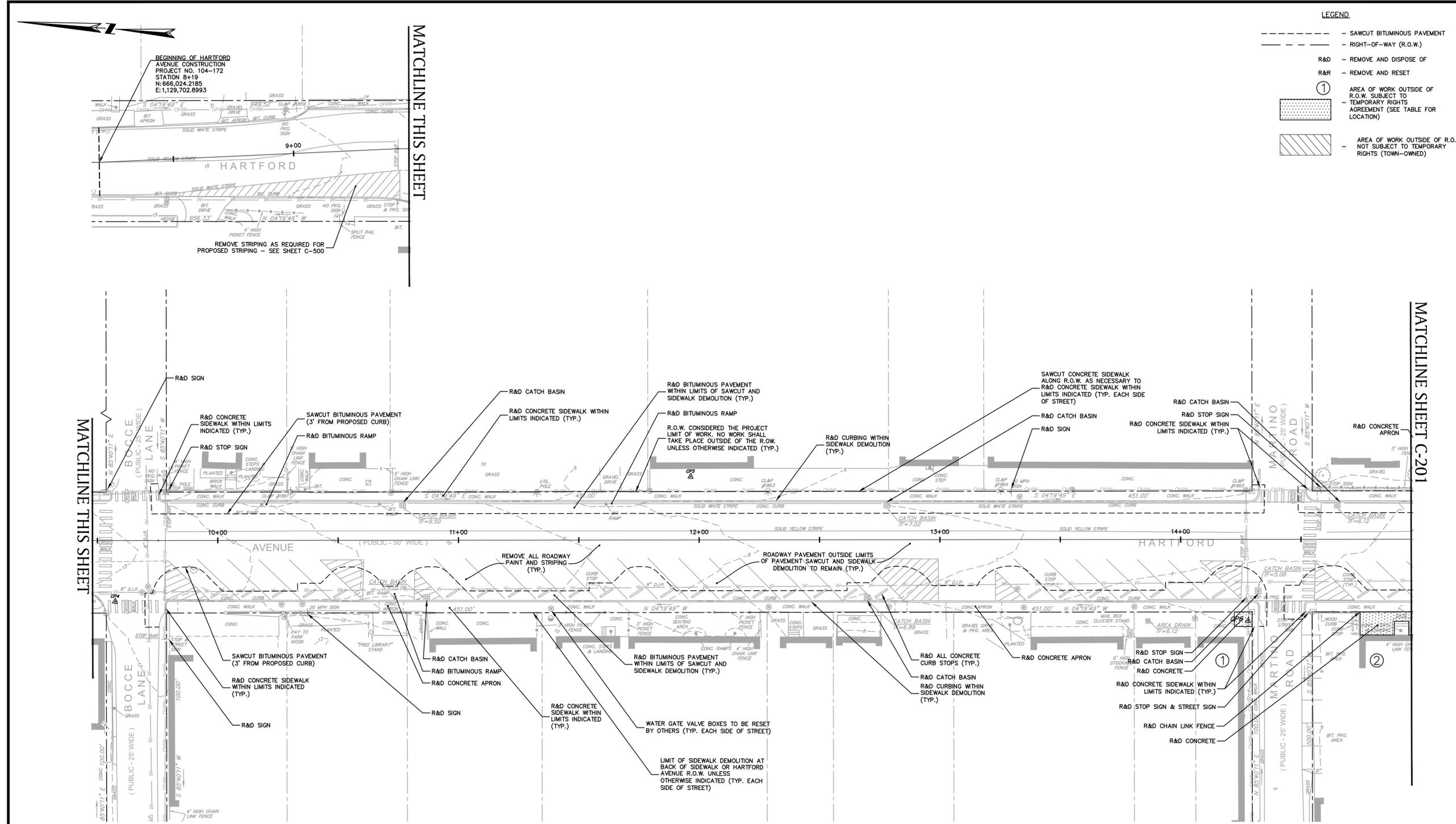
PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

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JOB NO: 83487.02

**C-200**



- NOTES:**
- CONTRACTOR SHALL NOTIFY 'CALL BEFORE YOU DIG' (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION, AND INVERTS AS REQUIRED.
  - THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
  - THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
  - THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
  - IMPLEMENTING WORKER SAFETY AND/OR HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH RULES, LAWS, AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND/OR THE POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE-SPECIFIC PHYSICAL OR CHEMICAL HAZARDS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL CONSTRUCTION CONES, DRUMS, AND WARNING SIGNS SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION.
  - PRIOR TO THE TERMINATION, ABANDONMENT, OR REMOVAL OF ANY UTILITY, VERIFY THAT APPLICABLE NOTIFICATIONS HAVE BEEN MADE TO THE UTILITY OWNER/OPERATOR AND THAT THE UTILITY HAS BEEN PROPERLY TERMINATED, CAPPED, OR PLUGGED AS REQUIRED.
  - PROTECT ALL IMPROVEMENTS AND EXISTING FEATURES NOT INCLUDED IN THE SCOPE OF SITE DEMOLITION. ANY IMPROVEMENT WHICH IS DAMAGED SHALL BE REPAIRED OR REPLACED IN-KIND TO THE OWNER'S SATISFACTION.
  - DEMOLITION OF SIGNS SHALL INCLUDE SIGN AND POST. SALVAGE ALL HARTFORD AVENUE STREET NAME SIGNS AND TURN OVER TO OWNER.
  - COORDINATE WITH CT WATER COMPANY AS REQUIRED FOR RE-SETTING OF ANY AFFECTED WATER GATE VALVE BOXES.

WORK OUTSIDE ROW SUBJECT TO TEMPORARY RIGHTS

AREA	PARCEL	ADDRESS
1	TAX MAP 80 LOT 8 VOL. 308 PG. 582	65 HARTFORD AVENUE
2	TAX MAP 80 LOT 7 VOL. 287 PG. 497	69 HARTFORD AVENUE
3	TAX MAP 80 LOT 6 VOL. 232 PG. 38	71 HARTFORD AVENUE
4	TAX MAP 80 LOT 5 VOL. 173 PG. 257	75 HARTFORD AVENUE
5	TAX MAP 80 LOT 3 VOL. 321 PG. 11	79 HARTFORD AVENUE
6	TAX MAP 80 LOT 36 VOL. 326 PG. 766	70 HARTFORD AVENUE
7	TAX MAP 80 LOT 7 VOL. 256 PG. 666	86 HARTFORD AVENUE

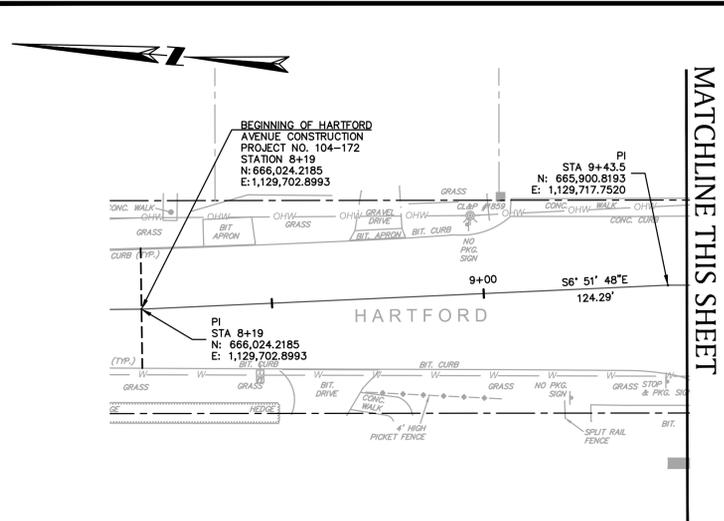


PLANT\_SCHEDULE\_C-300

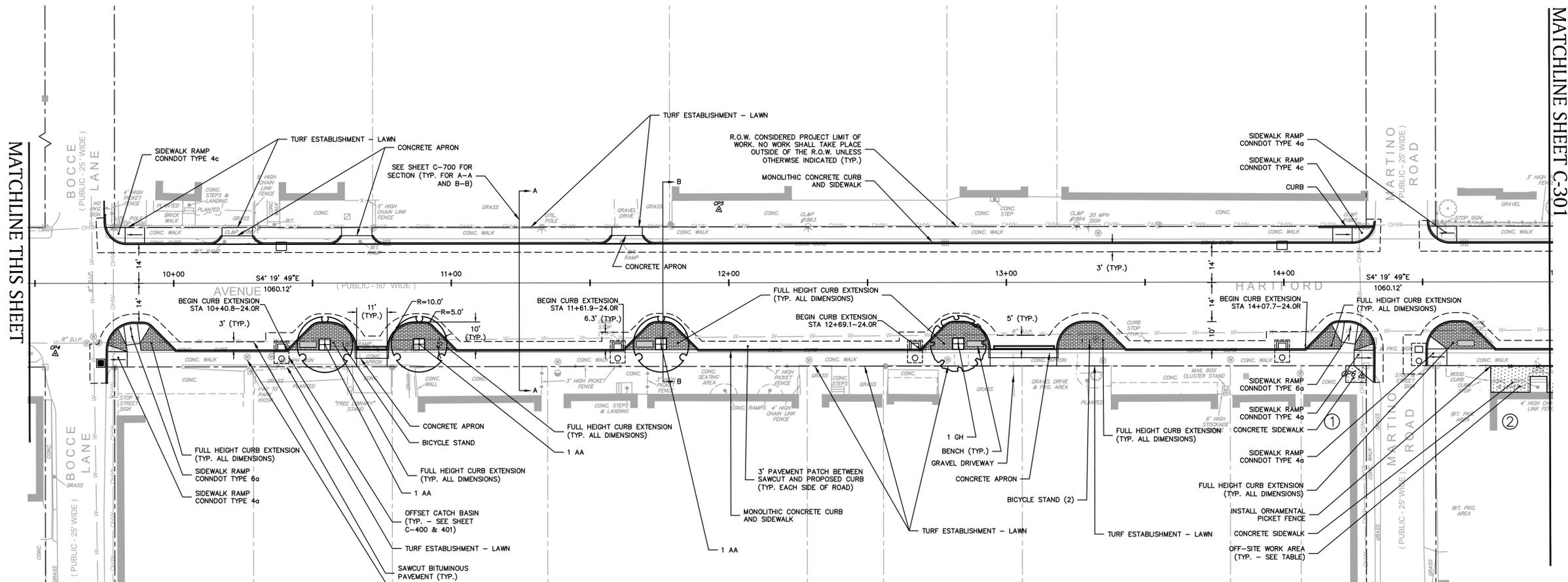
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	REMARKS
AA	3	ACER X FREEMANII 'ARMSTRONG' / ARMSTRONG FREEMAN MAPLE	15 GAL	2.5" CAL	
GH	3	GLEDITSIA TRIACANTHOS INERMIS 'HALKA' / HALKA THORNLESS HONEY LOCUST	B & B	2.5" CAL	SPECIMEN

LEGEND

- - - - - RIGHT-OF-WAY (R.O.W.)
- - - - - CURBING
- - - - - SAWCUT BITUMINOUS PAVEMENT
- ① AREA OF WORK OUTSIDE OF R.O.W. SUBJECT TO TEMPORARY RIGHTS AGREEMENT (SEE TABLE FOR LOCATION)



MATCHLINE THIS SHEET



MATCHLINE THIS SHEET

MATCHLINE SHEET C-301

PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITH MATERIAL EQUIVALENT TO THE DESIRED MATERIAL IN OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE. PROPOSED SUBSTITUTIONS WILL ONLY BE CONSIDERED IF SUBMITTED WITH ENUMERATED REASONS WHY SUBSTITUTIONS ARE PROPOSED. NO SUBSTITUTION OF PLANT SPECIES OR VARIETIES WILL BE ACCEPTABLE WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
- CONDOT REPRESENTATIVE TO APPROVE PLANT MATERIAL PRIOR TO DELIVERY TO SITE AND AGAIN AT SITE PRIOR TO PLANTING. VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE OWNER OR HIS REPRESENTATIVE.
- NO PLANT SHALL BE PLANTED BEFORE ACCEPTANCE OF FINAL GRADING.
- INSTALL PLANTS WITH BOTTOM OF ROOT FLARES FLUSH WITH GRADE. IMMEDIATELY REPLANT PLANTS WHICH SETTLE OUT OF PLUMB OR BELOW FINISH GRADE.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- THE LANDSCAPE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO ADJUST FINAL GRADES IN THE FIELD TO SAVE EXISTING VEGETATION.
- ANY ADDITIONAL TOPSOIL IMPORTED SHALL CONFORM TO FORM 816 M.13.01-1.
- REMOVE ALL ROCKS AND DEBRIS FROM SOIL SURFACE AND GRADE TO AN EVEN SURFACE.
- PLANT UNDER FULL SUPERVISION OF CERTIFIED ARBORIST, NURSERYMAN, OR LICENSED LANDSCAPE ARCHITECT. PROVIDE WRITTEN VERIFICATION OF CERTIFICATION AND/OR LICENSE FOR OWNER'S REPRESENTATIVE'S APPROVAL.
- COMPLETE QUANTITIES OF PLANTS FOR EACH AREA TO BE AVAILABLE ON SITE AT THE TIME OF PLANTING FOR FIELD LAYOUT BY OWNER'S REPRESENTATIVE. NO PARTIAL LAYOUT AND PLANTING OF AREAS WILL BE ACCEPTABLE.
- LOOSE OR CRACKED ROOTBALLS ARE UNACCEPTABLE.
- RAISE AND REPLANT PLANTS THAT SETTLE AFTER PLANTING AND WATERING.
- WATER PLANTS THOROUGHLY AFTER INSTALLATION, A MINIMUM OF TWICE WITHIN THE FIRST 24 HOURS.

NOTES

- NOTIFY 'CALL BEFORE YOU DIG' (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
- THIS DRAWING IS INTENDED TO DEPICT THE LOCATION, LAYOUT, AND MATERIALS OF CONSTRUCTION AND IS INTENDED TO BE USED IN CONJUNCTION WITH APPLICABLE SPECIFICATION SECTIONS AND DETAILS.
- WHERE CONCRETE CURBING IS CALLED-FOR ADJACENT TO SIDEWALKS, IT SHALL BE MONOLITHIC PER APPLICABLE DETAILS.
- CONSTRUCTION AND CONTROL JOINTS: SIDEWALK REINFORCEMENT SHALL NOT CONTINUE THROUGH CONSTRUCTION JOINTS. AT CONTROL JOINTS, CUT REINFORCEMENT WIRES. SEE APPLICABLE DETAILS.
- PRIOR TO INITIATION OF CONCRETE FLATWORK, SUBMIT PROPOSED CONSTRUCTION JOINT PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. COORDINATE SUCH PLAN WITH THE JOINT PATTERNS DEPICTED ON THE DRAWINGS.
- THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- VERIFY OVERALL CURB/SIDEWALK LAYOUT DIMENSIONS BASED ON PARKING SPACE DIMENSIONS AND THE NUMBER OF SPACES INDICATED. FIELD-ADJUST OVERALL LAYOUT DIMENSION IN CONCERT WITH THE ENGINEER IF REQUIRED.
- DIMENSIONS INDICATED ARE TO FACE OF CURB, EDGE OR CENTERLINE OF IMPROVEMENT, OR AS OTHERWISE NOTED. UNLESS OTHERWISE INDICATED, LINES ARE PARALLEL OR PERPENDICULAR TO LINE FROM WHICH THEY ARE MEASURED.
- ENGAGE A CONNECTICUT-LICENSED LAND SURVEYOR TO PERFORM LAND-SURVEYING SERVICES REQUIRED, INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF BASELINES, PROPOSED IMPROVEMENTS, DIMENSIONS AND ELEVATIONS. REPORT DISCREPANCIES TO THE ENGINEER.

WORK OUTSIDE ROW SUBJECT TO TEMPORARY RIGHTS		
AREA	PARCEL	ADDRESS
1	TAX MAP 80 LOT 8 VOL. 308 PG. 582	65 HARTFORD AVENUE
2	TAX MAP 80 LOT 7 VOL. 287 PG. 457	69 HARTFORD AVENUE
3	TAX MAP 80 LOT 6 VOL. 232 PG. 38	71 HARTFORD AVENUE
4	TAX MAP 80 LOT 5 VOL. 173 PG. 257	75 HARTFORD AVENUE
5	TAX MAP 80 LOT 3 VOL. 321 PG. 11	79 HARTFORD AVENUE
6	TAX MAP 80 LOT 36 VOL. 326 PG. 766	70 HARTFORD AVENUE
7	TAX MAP 80 LOT 7 VOL. 256 PG. 666	86 HARTFORD AVENUE

REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.



KURT A. PROCHORENA, PE No. 20375

ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172

IN OLD LYME CONNECTICUT  
LAYOUT & MATERIALS PLAN

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
300 Winding Brook Drive  
Glastonbury, Connecticut 06033  
860 652 8227

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SCALE: 1" = 20'  
0 10 20 40 FEET

FILE: P:\8348702\Civil\Drawings\8348702-MAT.dwg  
DWG. NO.:  
JOB. NO.: 83487.02

C-300







KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
OLD LYME  
CONNECTICUT

**GRADING & DRAINAGE PLAN**

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

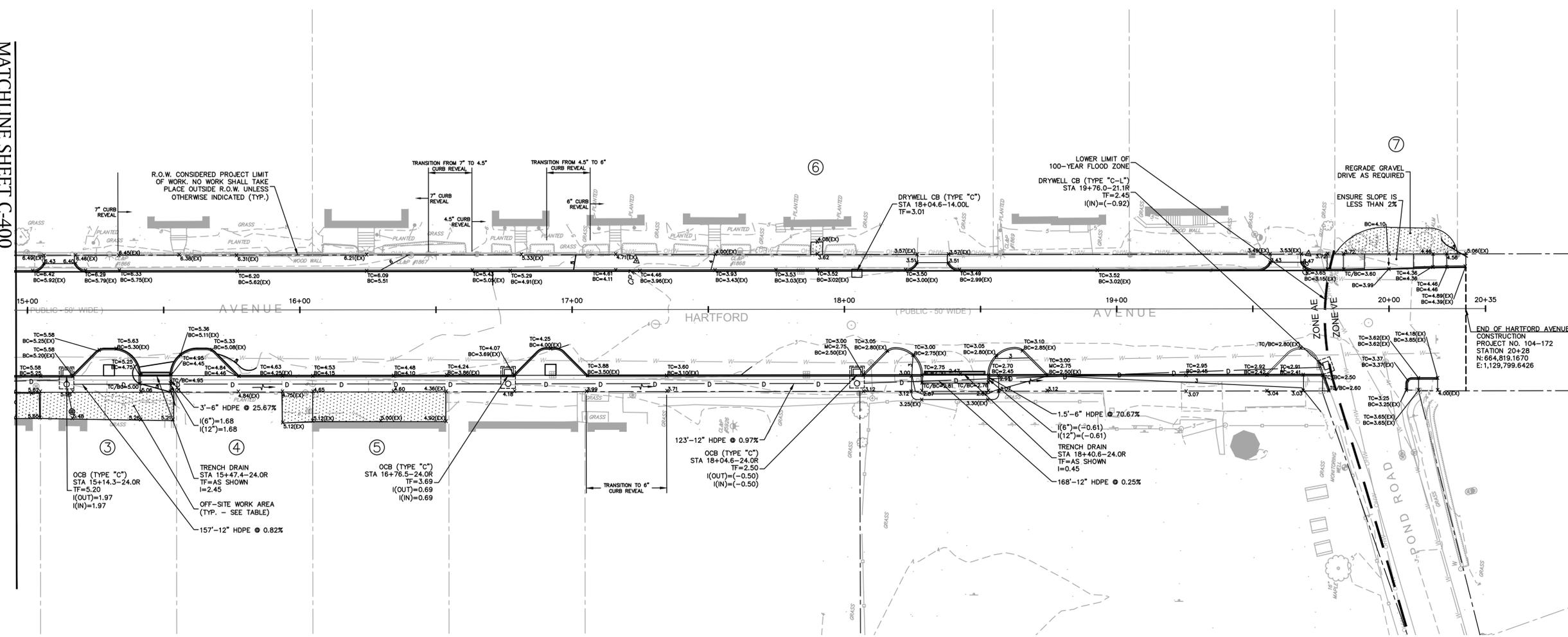
PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
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JOB. NO: 83487.02

C-401

MATCHLINE SHEET C-400



WORK OUTSIDE ROW SUBJECT TO TEMPORARY RIGHTS		
AREA	PARCEL	ADDRESS
1	TAX MAP 80 LOT 8 VOL. 308 PG. 582	65 HARTFORD AVENUE
2	TAX MAP 80 LOT 7 VOL. 287 PG. 497	69 HARTFORD AVENUE
3	TAX MAP 80 LOT 6 VOL. 232 PG. 38	71 HARTFORD AVENUE
4	TAX MAP 80 LOT 5 VOL. 173 PG. 257	75 HARTFORD AVENUE
5	TAX MAP 80 LOT 3 VOL. 321 PG. 11	79 HARTFORD AVENUE
6	TAX MAP 80 LOT 36 VOL. 326 PG. 766	70 HARTFORD AVENUE
7	TAX MAP 80 LOT 7 VOL. 256 PG. 666	86 HARTFORD AVENUE

NOTE:  
1. SEE SHEET C-400 FOR GRADING & DRAINAGE NOTES AND LEGEND.

REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.

**LEGEND**

- - - - - RIGHT-OF-WAY (R.O.W.)
- 00-0000 - CONDOT OR MUTCD SIGN NUMBER
- - PROPOSED SIGN
- ➡ - SHARED USE LANE PAVEMENT MARKING
- ① - AREA OF WORK OUTSIDE OF R.O.W. SUBJECT TO TEMPORARY RIGHTS AGREEMENT (SEE TABLE FOR LOCATION)



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
**OLD LYME CONNECTICUT**  
PAVEMENT MARKINGS & SIGNAGE PLAN

JUNE 9, 2016

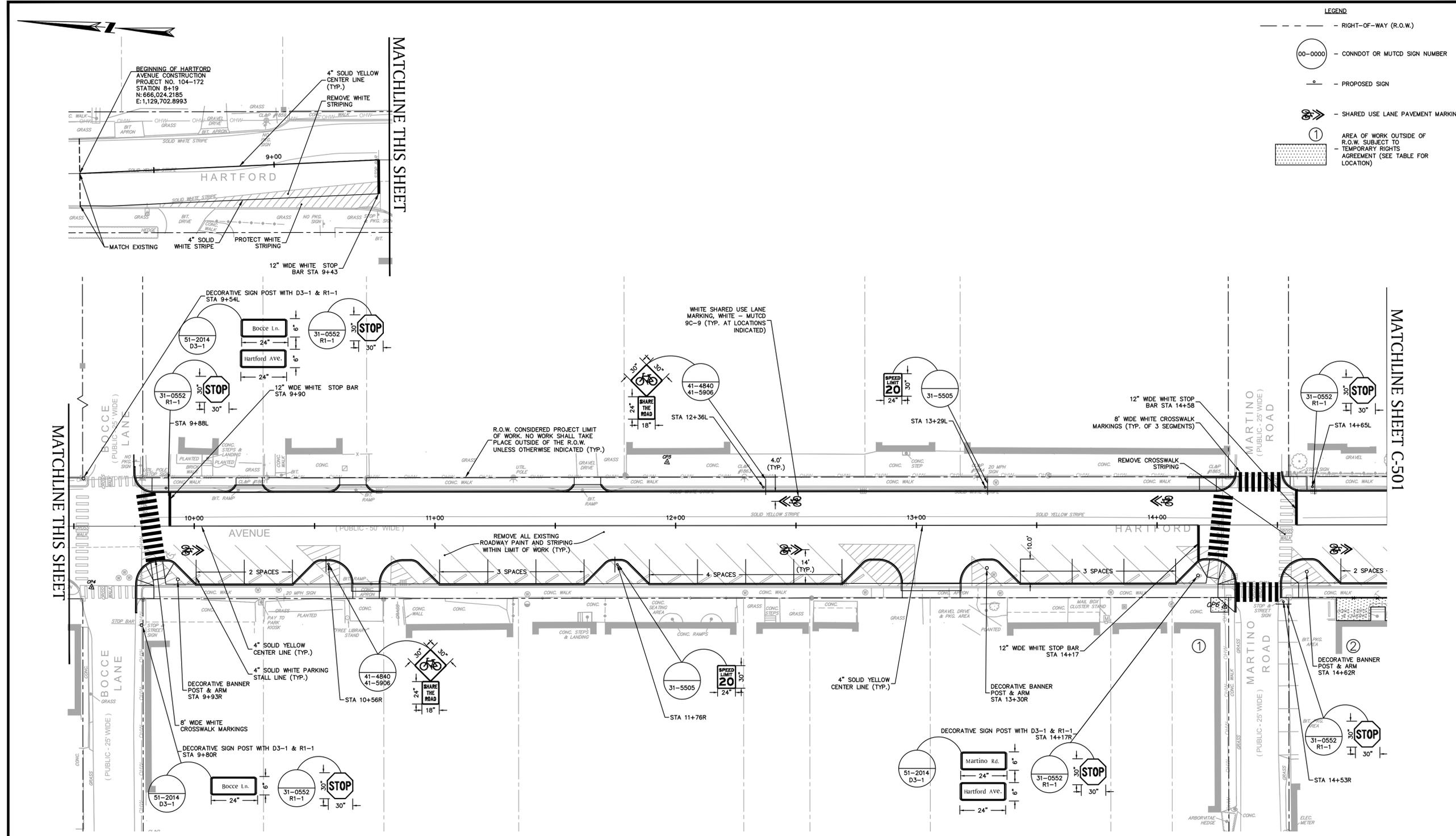
REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

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JOB: NO: 83487.02 **C-500**



- NOTES:**
- NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION, AND INVERTS AS REQUIRED.
  - THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
  - THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
  - THIS DRAWING IS INTENDED TO DEPICT THE LOCATION, LAYOUT, AND MATERIALS OF PAVEMENT MARKINGS AND SIGNAGE, AND IS INTENDED TO BE USED IN CONJUNCTION WITH APPLICABLE SPECIFICATION SECTIONS AND DETAILS.
  - THIS PLAN SHOWS PAVEMENT MARKINGS THAT MAY NOT BE TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS AND DETAILS WHEN INSTALLING PAVEMENT MARKINGS.
  - THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
  - DIMENSIONS INDICATED ARE TO FACE OF CURB, EDGE OR CENTERLINE OF IMPROVEMENT, OR AS OTHERWISE NOTED. UNLESS OTHERWISE INDICATED, LINES ARE PARALLEL OR PERPENDICULAR TO LINE FROM WHICH THEY ARE MEASURED.
  - ENGAGE A CONNECTICUT-LICENSED LAND SURVEYOR TO PERFORM LAND-SURVEYING SERVICES REQUIRED, INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF BASELINES, PROPOSED IMPROVEMENTS, DIMENSIONS AND ELEVATIONS. REPORT DISCREPANCIES TO THE ENGINEER.
  - SIGN DIMENSIONS SHALL CONFORM TO THE APPLICABLE CONNECTICUT DEPARTMENT OF TRANSPORTATION SIGN NUMBER INDICATED OR TO THE SPECIFIC DIMENSIONS INDICATED ON THIS PLAN.

WORK OUTSIDE ROW SUBJECT TO TEMPORARY RIGHTS

AREA	PARCEL	ADDRESS
1	TAX MAP 80 LOT 8 VOL. 308 PG. 582	65 HARTFORD AVENUE
2	TAX MAP 80 LOT 7 VOL. 287 PG. 497	69 HARTFORD AVENUE
3	TAX MAP 80 LOT 6 VOL. 232 PG. 38	71 HARTFORD AVENUE
4	TAX MAP 80 LOT 5 VOL. 173 PG. 257	75 HARTFORD AVENUE
5	TAX MAP 80 LOT 3 VOL. 321 PG. 11	79 HARTFORD AVENUE
6	TAX MAP 80 LOT 36 VOL. 326 PG. 766	70 HARTFORD AVENUE
7	TAX MAP 80 LOT 7 VOL. 256 PG. 666	86 HARTFORD AVENUE



REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.



KURT A. PROCHORENA, PE No. 20375

# ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172

IN  
OLD LYME  
CONNECTICUT

## MAINTENANCE & PROTECTION OF TRAFFIC PLAN

JUNE 9, 2016

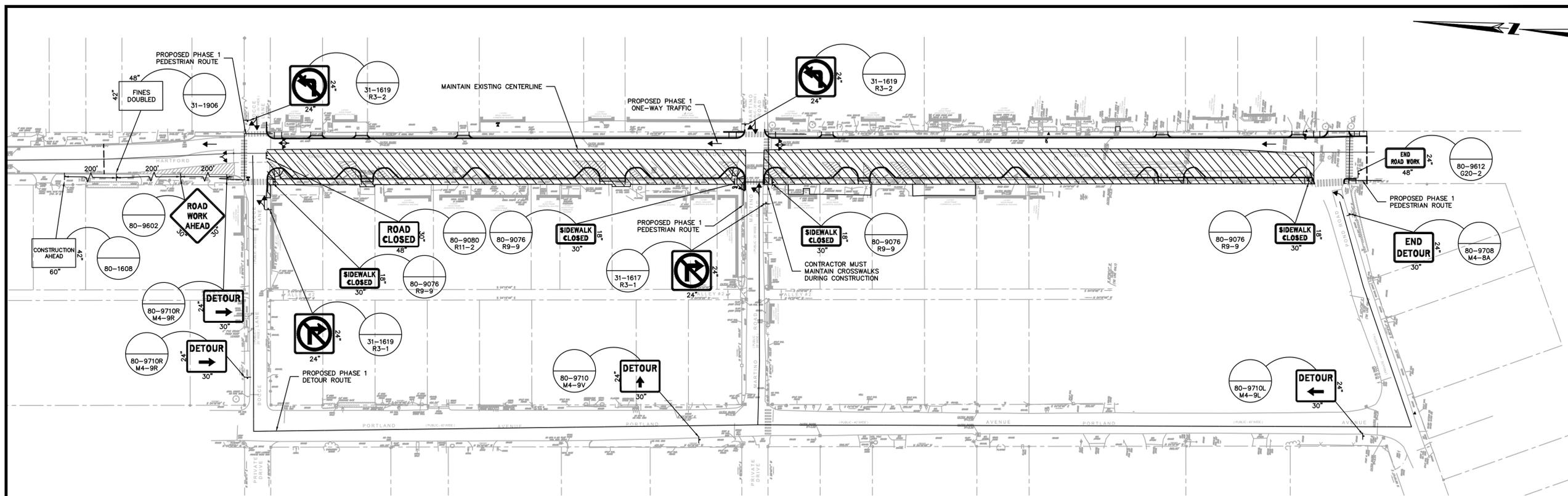
REVISIONS:

NO.	DATE	DESC.

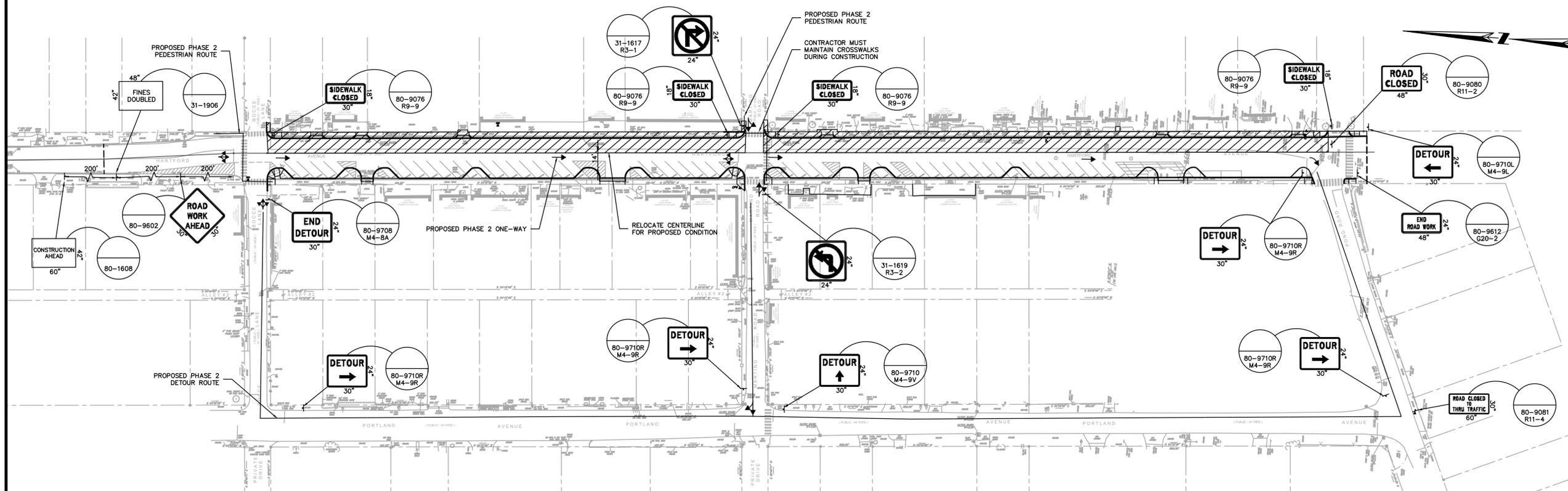
PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
300 Winding Brook Drive  
Glastonbury, Connecticut 06033  
860 652 8227

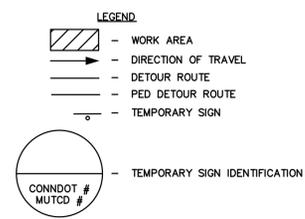
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SCALE: 1" = 50'  
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FILE: P:\8348702\Civil\Drawings\8348702-MPT.dwg  
DWG. NO.:  
JOB. NO.: 83487.02 **C-600**



PHASE 1



PHASE 2



- NOTES:**
- CONTRACTOR TO COMPLETE CONSTRUCTION OF EACH PHASE IN TWO SEGMENTS. SEGMENT 1 MUST BE COMPLETED PRIOR TO BEGINNING SEGMENT 2.
    - SEGMENT 1 - BOCCO LANE TO MARTINO ROAD
    - SEGMENT 2 - MARTINO ROAD TO POND ROAD
  - CONTRACTOR MUST MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS AND WALKS DURING CONSTRUCTION.
  - CONTRACTOR WILL UTILIZE CHANNELIZATION DEVICES TO CLEARLY DELINEATE WORK AREA.

- PHASING NOTES:**
- PHASE 1:**
- INSTALL PEDESTRIAN AND TRAFFIC DETOUR SIGNING, CONES, DRUMS, AND CHANNELIZATION.
  - MAINTAIN NORTHBOUND TRAFFIC IN EXISTING LOCATION.
  - SOUTHBOUND TRAFFIC TO UTILIZE PORTLAND AVENUE DETOUR.
  - CONSTRUCT WESTERN PORTION OF HARTFORD AVENUE.
- PHASE 2:**
- INSTALL PEDESTRIAN AND TRAFFIC DETOUR SIGNING, CONES, DRUMS, AND CHANNELIZATION.
  - NORTHBOUND TRAFFIC TO UTILIZE PORTLAND AVENUE DETOUR.
  - SOUTHBOUND TRAFFIC TO UTILIZE HARTFORD AVENUE.
  - CONSTRUCT EASTERN PORTION OF HARTFORD AVENUE.

REPRODUCTIONS OF THIS PLAN ARE  
INVALID UNLESS THEY BEAR THE EMBOSSED  
SEAL OF THE UNDERSIGNED PROFESSIONAL.



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY  
AND SOUND VIEW  
IMPROVEMENTS  
PROJECT 104-172**

IN  
OLD LYME  
CONNECTICUT

TYPICAL SECTIONS

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

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SCALE: 1" = 4'

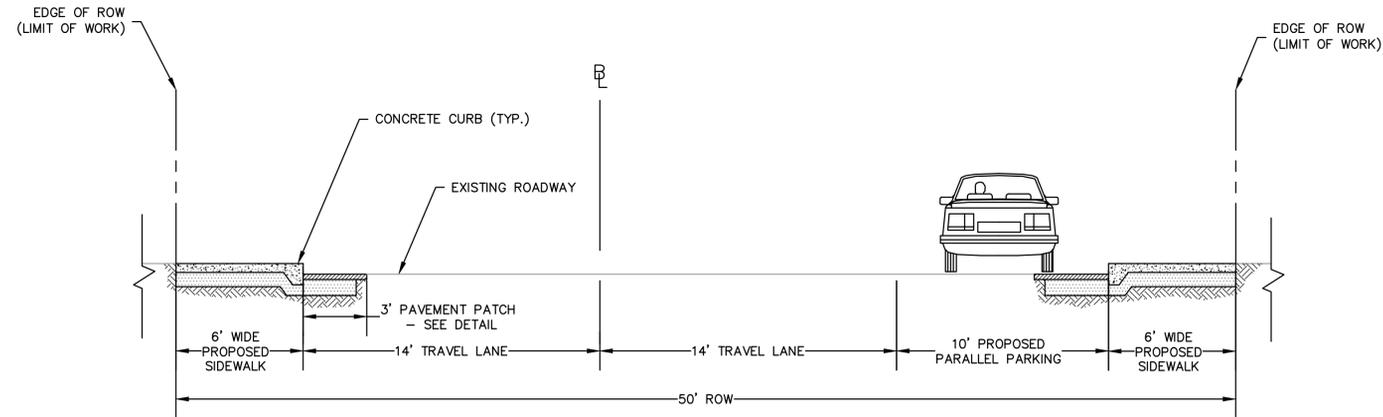


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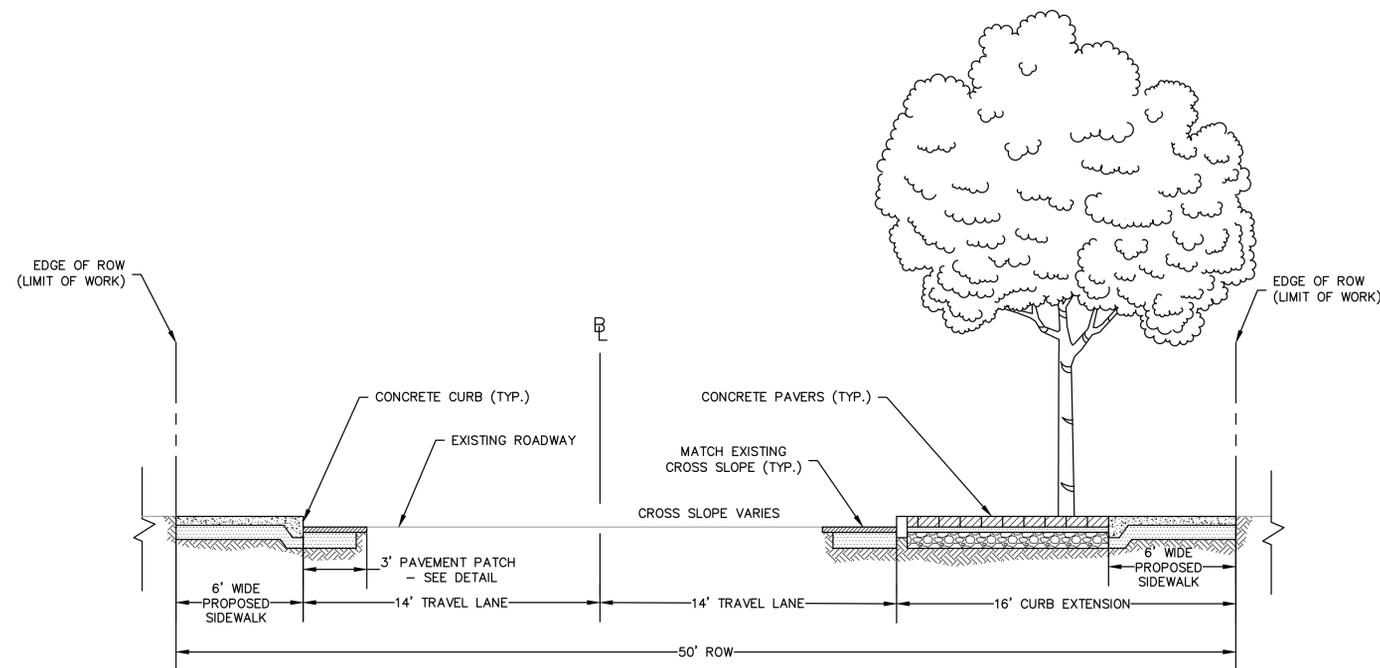
DWG. NO:

JOB. NO: 83487.02

C-700



**HARTFORD AVENUE TYPICAL SECTION A-A**



**HARTFORD AVENUE TYPICAL SECTION B-B**





KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
**OLD LYME CONNECTICUT**

**DETAILS**

JUNE 9, 2016

**REVISIONS:**

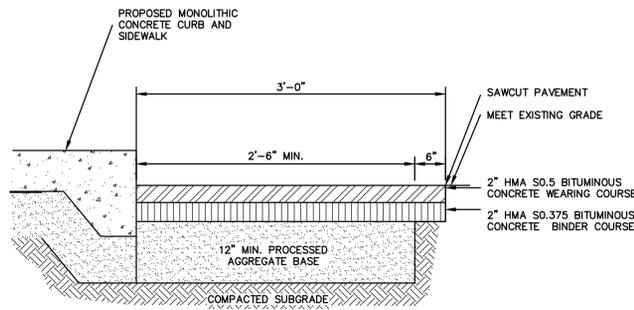
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PREPARED FOR:  
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52 LYME STREET  
OLD LYME, CT 06371

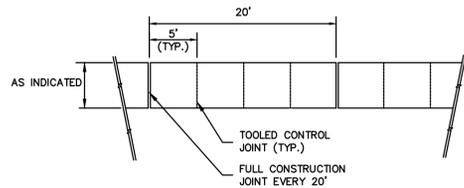
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SCALE: AS NOTED

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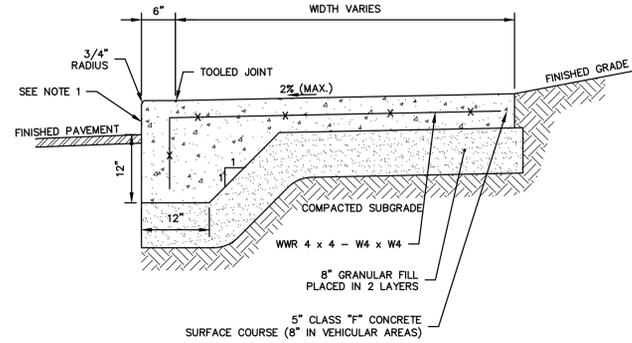


**PAVEMENT PATCH**  
SCALE: NONE



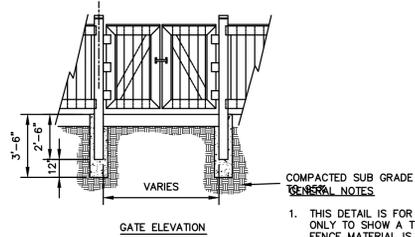
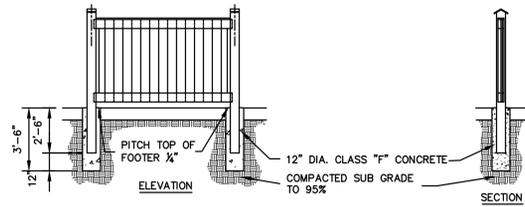
- GENERAL NOTES**
- SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONDOT FORM 816, SECTION 9.21 WITH MODIFICATIONS AS SHOWN.
  - TOOLED CONTROL JOINTS SHALL BE 1/4 SLAB THICKNESS. TOOL JOINTS EARLY IN FINISHING PROCESS AND RE-RUN TO ENSURE GROOVE BOND HAS NOT OCCURRED.
  - FULL-DEPTH JOINTS SHALL INCORPORATE FULL-DEPTH JOINT FILLER PER SPECIFICATIONS. FULL DEPTH JOINT FILLER TO BE PROVIDED ALONG THE INTERFACE BETWEEN EXISTING AND PROPOSED CONCRETE SIDEWALK AND OTHER LOCATIONS WHERE THE PROPOSED CONCRETE SIDEWALK MEETS THE CONCRETE SIDEWALK OUTSIDE OF THE ROW.
  - SIDEWALK SHALL HAVE LIGHT BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.
  - EXISTING SIDEWALK SUBBASE MAY BE REUSED AND SHALL BE SUPPLEMENTED WITH NEW GRANULAR FILL TO BRING SIDEWALK BASE TO REQUIRED SUBGRADE ELEVATIONS.

**TOOLED JOINT**  
SCALE: NONE



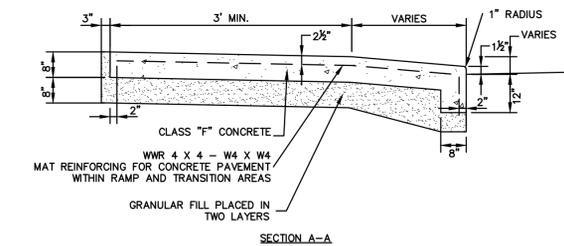
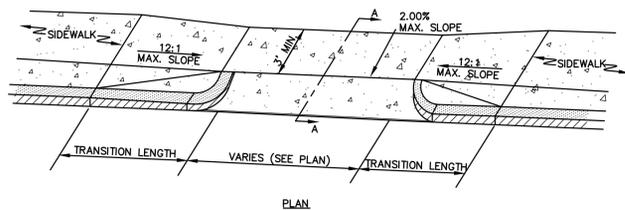
- GENERAL NOTES**
- CURB HEIGHT VARIES. SEE DETAILED GRADING ON SHEETS C-400 AND C-401.

**MONOLITHIC CONCRETE CURB AND SIDEWALK**  
SCALE: NONE

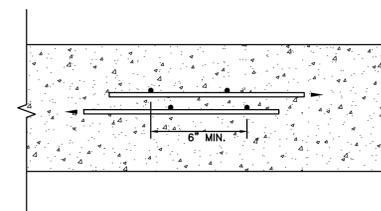


- GENERAL NOTES**
- THIS DETAIL IS FOR DIAGRAMATIC REFERENCE ONLY TO SHOW A TYPICAL FENCE INSTALLATION. FENCE MATERIAL IS PROPERTY OWNER AND MAY VARY FROM THAT SHOWN.
  - CONTRACTOR TO SECURELY FASTEN ALL FENCE MEMBERS W/ GALVANIZED HARDWARE & FASTENERS. SEE SPECIFICATIONS.
  - LENGTH OF FENCE SECTIONS WILL VARY ACCORDING TO GATE PLACEMENT. FIELD VERIFY ALL CONDITIONS.
  - CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER TO VERIFY FENCE MATERIALS, INSTALLATION REQUIREMENTS, DELIVERY SCHEDULE, AND STORAGE LOCATION.

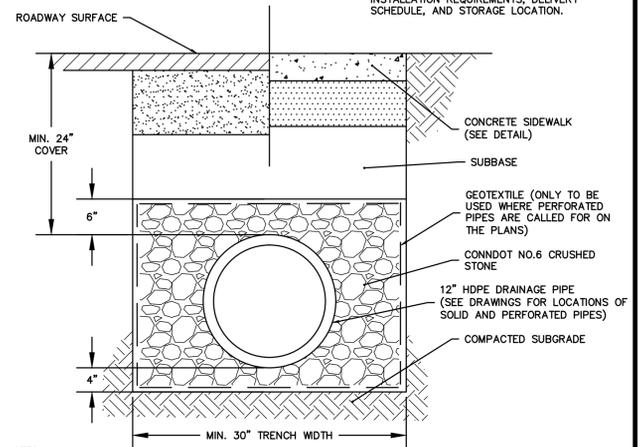
**ORNAMENTAL PICKET FENCE**  
SCALE: NONE



**SIDEWALK THROUGH DRIVEWAY APRON**  
SCALE: NONE

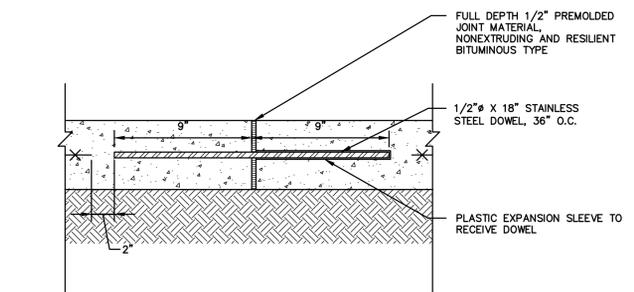


**WELDED WIRE REINFORCEMENT SPLICE-PLAIN WIRE**  
SCALE: NONE

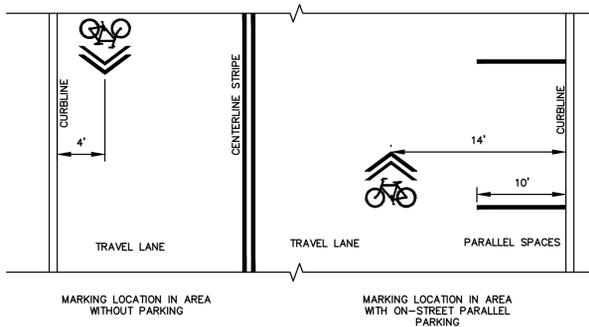


- NOTES:**
- ALL PERFORATED HDPE PIPES SHALL HAVE A SMOOTH INTERIOR (TYPE SP) AND CONFORM TO FORM 816 M.08. ALL NON-PERFORATED HDPE PIPES SHALL HAVE A SMOOTH INTERIOR (TYPE S) AND CONFORM TO FORM 816 M.08.
  - CONDOT NO. 6 CRUSHED STONE SHALL MEET THE REQUIREMENTS OF FORM 816 M.08.
  - WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

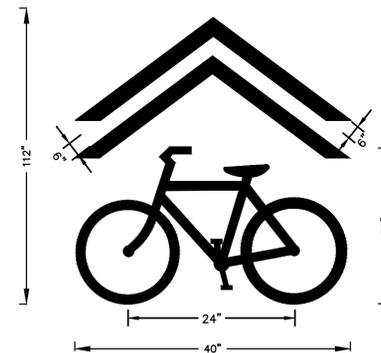
**TYPICAL TRENCH SECTION - DRAINAGE PIPE**  
SCALE: NONE



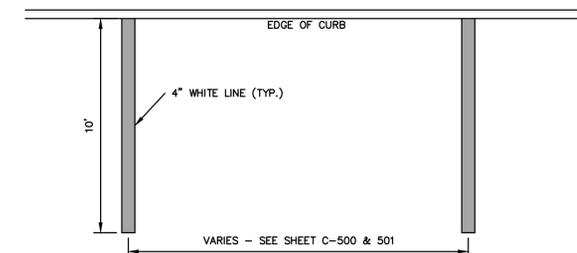
**CONSTRUCTION JOINT IN CONCRETE**  
SCALE: NONE



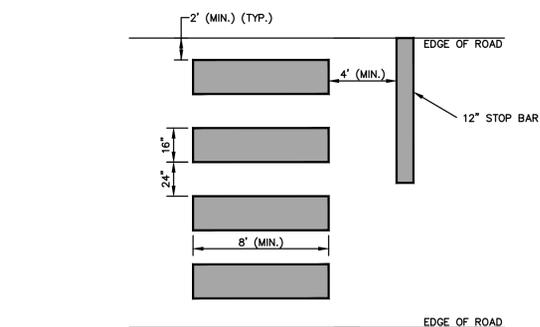
**SHARROW MARKING LAYOUT**  
SCALE: NONE



**TYPICAL SHARROW LANE MARKER**  
SCALE: NONE



**PAINTED PARKING STALL - PARALLEL SPACE**  
SCALE: NONE

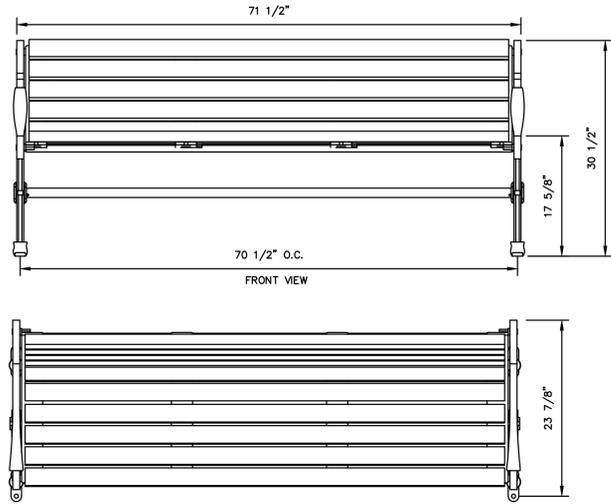
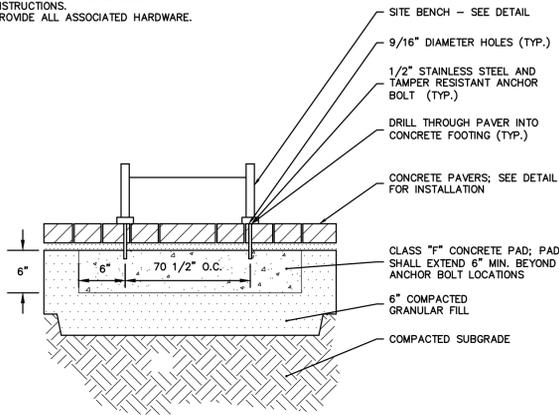


**CROSSWALK**  
SCALE: NONE



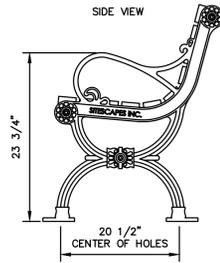
**NOTES:**

1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE ALL ASSOCIATED HARDWARE.



**NOTES:**

1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2. PROVIDE 1/2" X 8" STAINLESS STEEL ANCHOR BOLT WITH NUT AND WASHER.
3. INSTALL BENCH PER MANUFACTURER'S INSTRUCTIONS.
4. SEAT SLATS ARE 2"x3" NOMINAL RECYCLED PLASTIC.

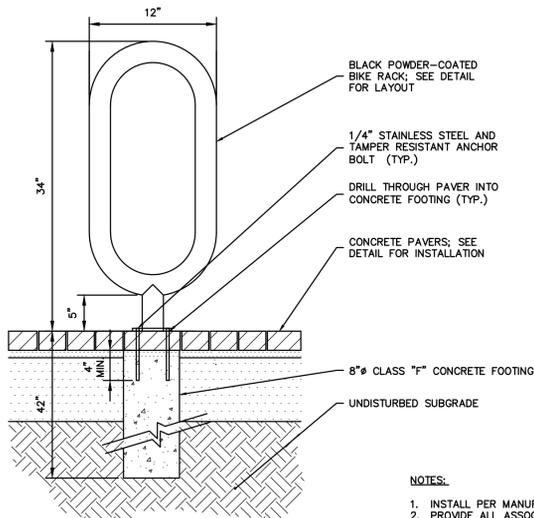
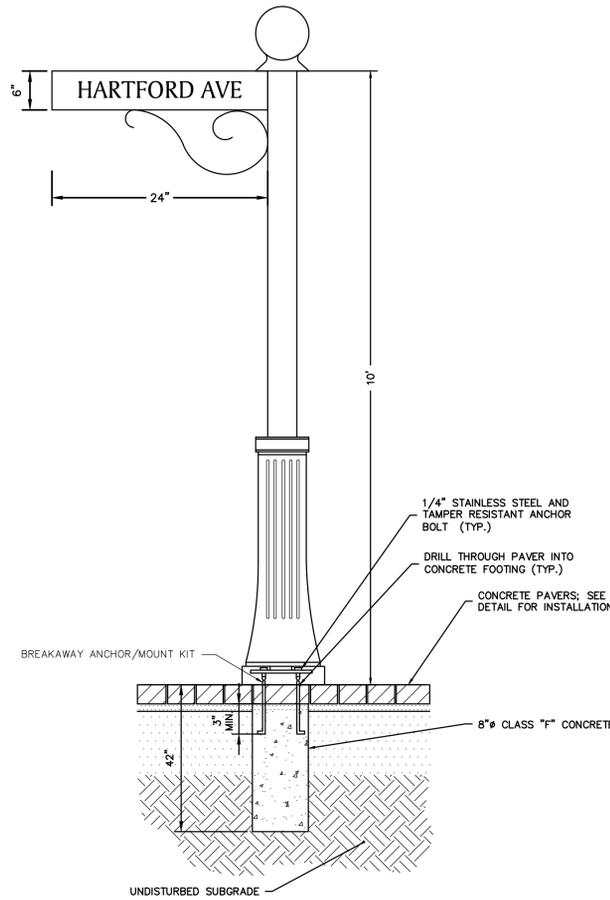


**SITE BENCH MOUNTING**

SCALE: NONE

**6' BENCH**

SCALE: NONE

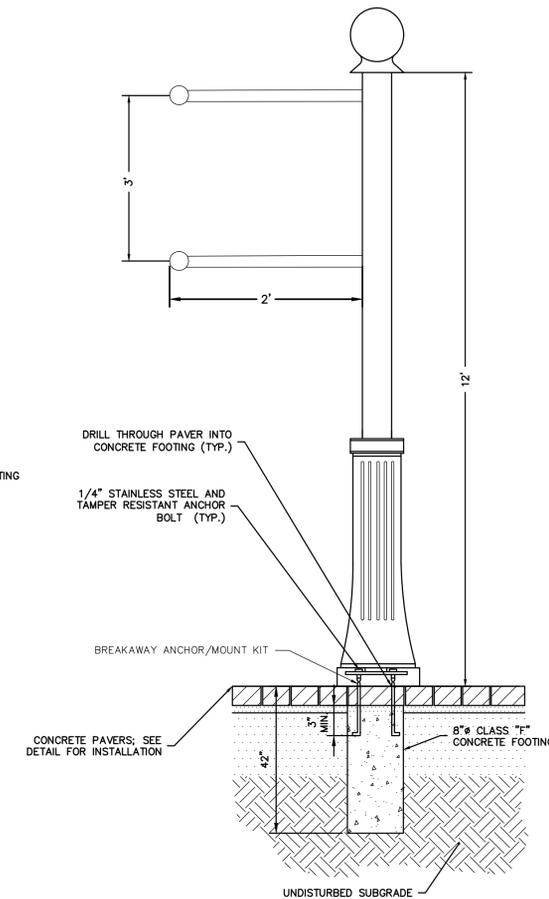
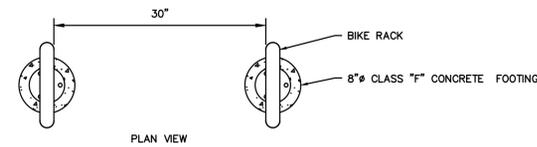
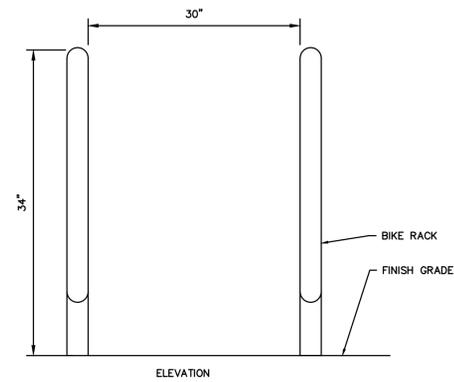


**NOTES:**

1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE ALL ASSOCIATED HARDWARE, INCLUDING CLASS "F" CONCRETE.

**BICYCLE STAND**

SCALE: NONE



**NOTES:**

1. BANNER POLE SHALL BE BREAKAWAY APPROVED BY U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (FHWA) FOR USE ON NATIONAL HIGHWAY SYSTEM (NHS).
2. BANNER POLE, DECORATIVE SLIP OVER BASE, POST TOPPER, AND ARMS AS MANUFACTURED BY:
  - 2.1. SPECIAL LITE PRODUCTS COMPANY, INC., 1634 LATROBE-DERRY ROAD, LOYALHANNA, PA 15661. PH: 1-800-365-0511. FX: (724) 537-9313.
  - 2.2. CAPITAL STREETSCAPES, 9402 BUSINESS DRIVE, AUSTIN, TX 78758. PH: 855-339-7800. FX: 512-339-7802.
  - 2.3. OR APPROVED EQUAL.

**DECORATIVE BANNER POST DETAIL**

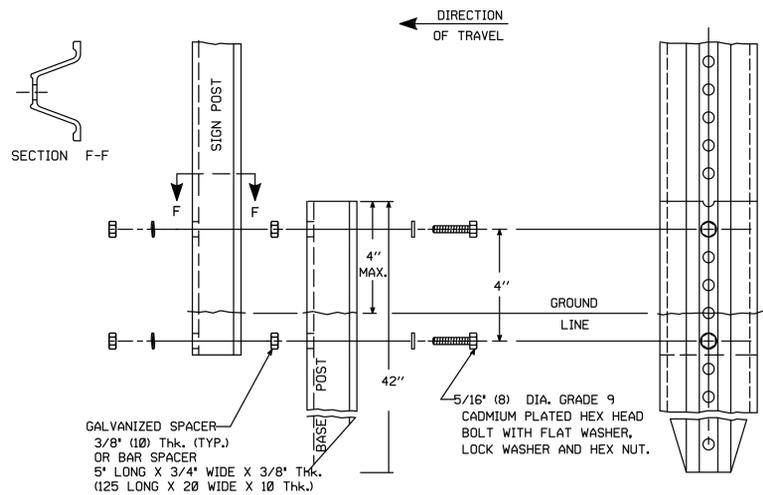
SCALE: NONE

**DECORATIVE SIGN POST DETAIL**

SCALE: NONE

**BREAKAWAY TYPE II INSTALLATION (FOR 3 & 4 LB. POSTS)**

SCALE: NONE



REPRODUCTIONS OF THIS PLAN ARE INVALID UNLESS THEY BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED PROFESSIONAL.



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN OLD LYME CONNECTICUT

DETAILS

JUNE 9, 2016

**REVISIONS:**

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
300 Winding Brook Drive  
Glastonbury, Connecticut 06033  
860 652 8227

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DWG. NO:  
JOB. NO: 83487.02 DT-103



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
**OLD LYME CONNECTICUT**  
DETAILS

JUNE 9, 2016

REVISIONS:

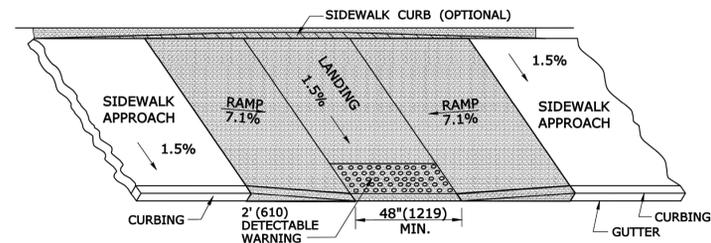
NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

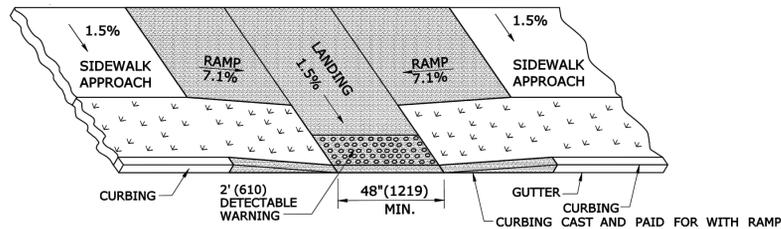
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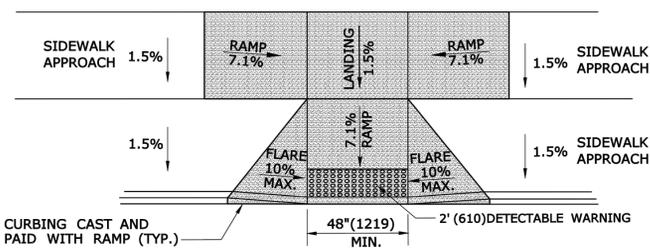
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DWG. NO:  
JOB. NO: 83487.02 **DT-104**



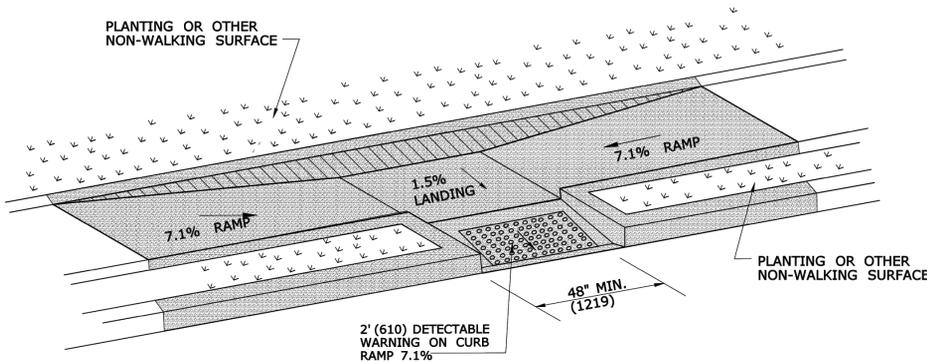
**PARALLEL SIDEWALK RAMP (TYPE 1) NO UTILITY STRIP**



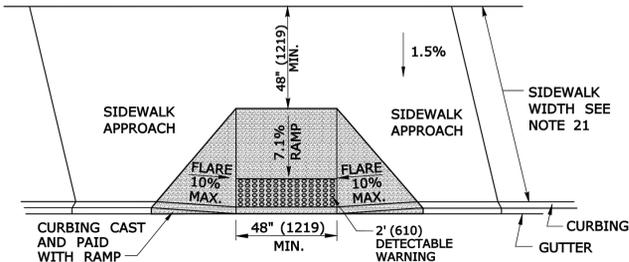
**PARALLEL SIDEWALK RAMP (TYPE 1a) WITH UTILITY / GRASS STRIP**



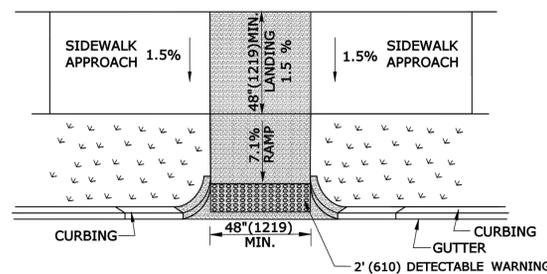
**PARALLEL/PERPENDICULAR SIDEWALK RAMP NO UTILITY/GRASS STRIP (TYPE 1b)**



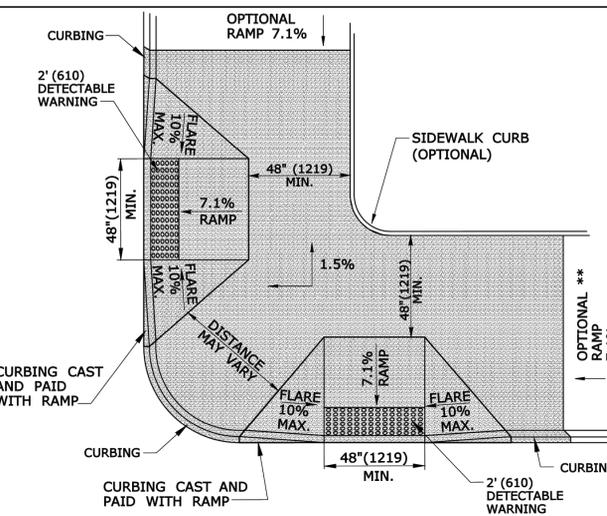
**PARALLEL SIDEWALK RAMP (TYPE 1c) WITH UTILITY / GRASS STRIP**



**PERPENDICULAR SIDEWALK RAMP W/ 48" (1219) MIN. BY PASS LANDING (TYPE 2)**

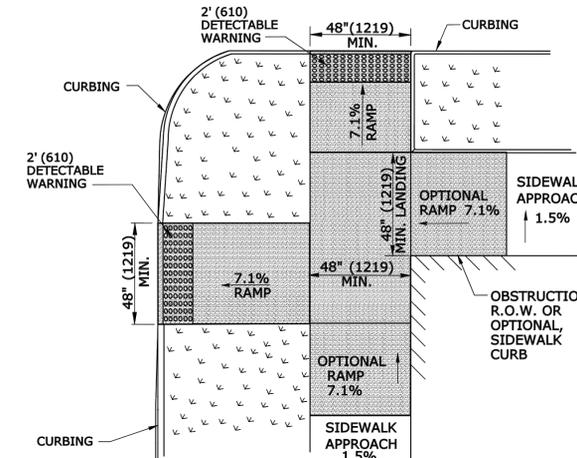


**PERPENDICULAR SIDEWALK RAMP W/CURB RETURNS / UTILITY GRASS STRIP (TYPE 2a)**  
\* OPTIONAL FLARE ONE SIDE OF RAMP



**DUAL PERPENDICULAR SIDEWALK RAMPS (TYPE 3)**

SEE NOTES 19  
\* OPTIONAL CURB RETURN ON ONE SIDE OF RAMP  
\*\* SEE NOTE 23



**DUAL PERPENDICULAR SIDEWALK RAMPS (TYPE 3a) WITH UTILITY / GRASS STRIP**

SEE NOTE 20

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

**GENERAL NOTES:**

- 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 ON SHEET 4.
- 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.
- ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
- 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 1/2" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN 1/4" (6.4) AND 1/2" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
- 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 RADIUS IS LESS THAN 20'(6096).
- REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.33% 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".
- 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.
- 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.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOE AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION ON SHEET 3). 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 SHOWN ON SHEET 3 SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
- 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 DETAILS ON SHEET 4.
- 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.
- 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.
- 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.
- 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.
- 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.
- APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
- APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
- THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
- 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.
- 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.
- 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).
- SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
- OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/17/2014
1	7/13	Created new sheets (4 total).	-	-

DESIGNER/DRAFTER:  
**MGB/EMK**  
CHECKED BY:  
**LLF**

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

SIGNATURE/  
BLOCK:  
**OFFICE OF ENGINEERING**  
APPROVED BY:

PROJECT TITLE:  
**SIDEWALK RAMPS SHEET 1**

TOWN:  
PROJECT NO.  
DRAWING NO.  
SHEET NO.

Filename: ...SIDEWALK RAMP 1.GD.dgn



KURT A. PROCHORENA, PE No. 20375

ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172

IN OLD LYME CONNECTICUT

DETAILS

JUNE 9, 2016

REVISIONS:

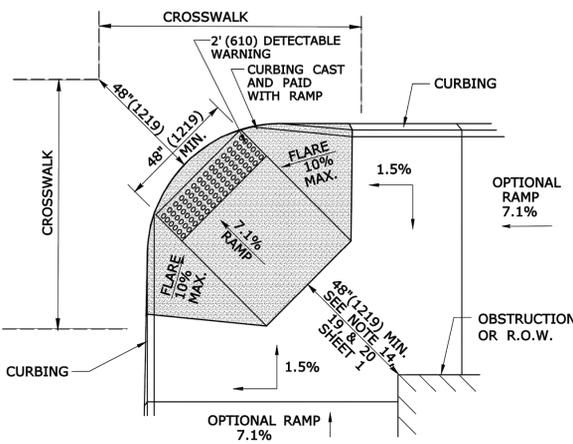
NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

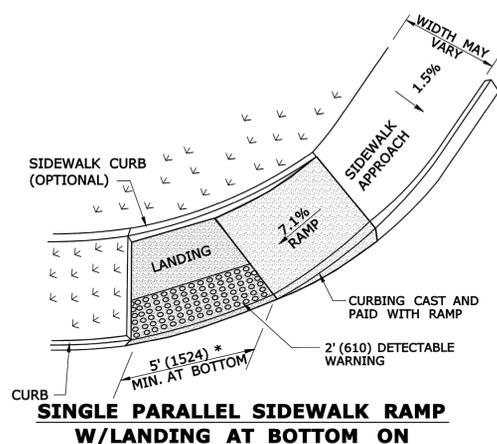
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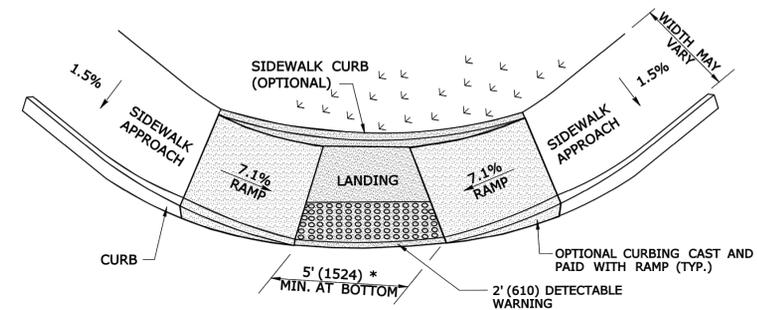
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JOB. NO.: 83487.02 DT-105



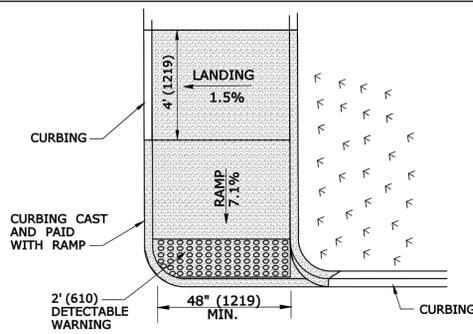
**DIAGONAL SIDEWALK RAMP (TYPE 4)  
W/LANDING AT TOP**



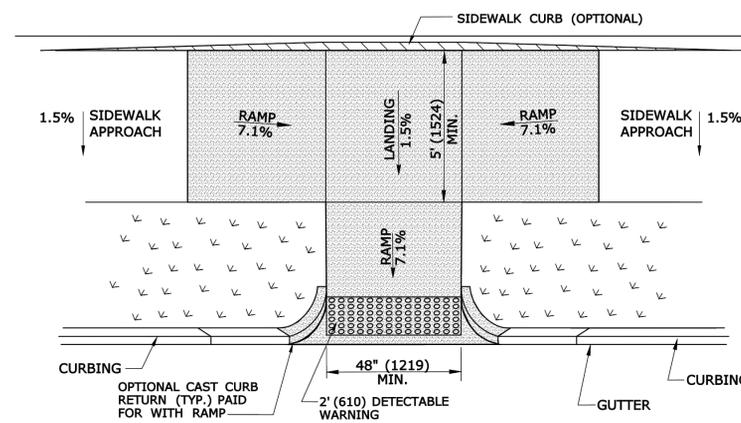
**SINGLE PARALLEL SIDEWALK RAMP  
W/LANDING AT BOTTOM ON  
CORNER (TYPE 4c)**  
\* SEE NOTE 20 SHEET 1



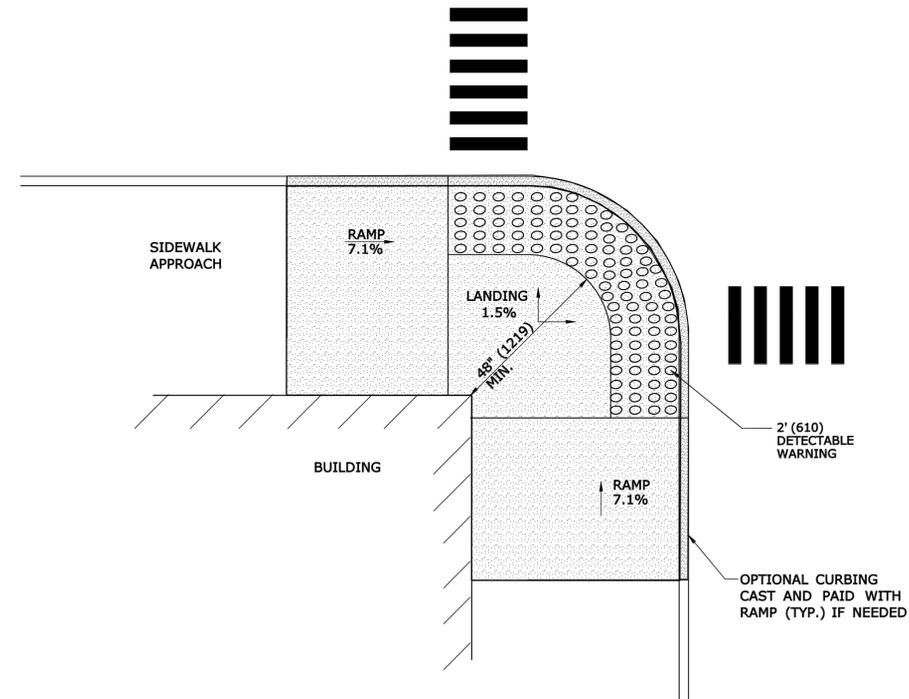
**DOUBLE PARALLEL SIDEWALK RAMP  
W/LANDING AT BOTTOM ON CORNER (TYPE 4f)**  
\* SEE NOTE 20 SHEET 1



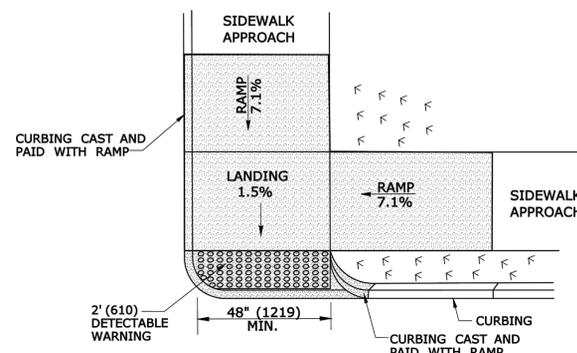
**SINGLE DIRECTION  
PERPENDICULAR SIDEWALK RAMP  
NO / UTILITY GRASS STRIP  
(TYPE 4a)**



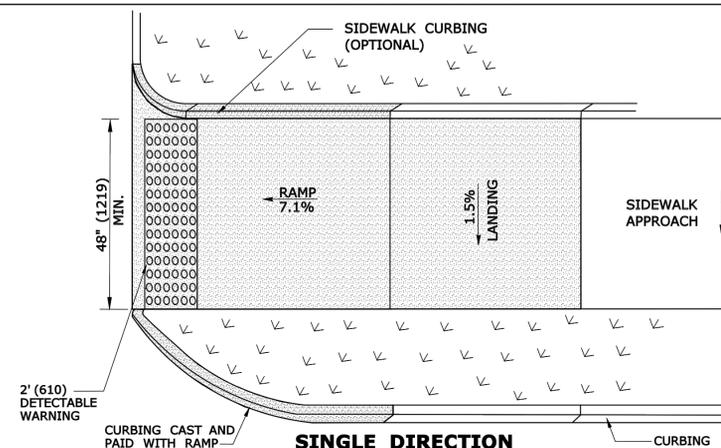
**PARALLEL/PERPENDICULAR SIDEWALK RAMP  
COMBINATION W/ CURB RETURNS (TYPE 4d)**  
\* OPTIONAL FLARE ONE SIDE



**RESTRICTED CONDITION  
DIAGONAL SIDEWALK RAMP  
(TYPE 4g)**



**DOUBLE DIRECTION  
PARALLEL SIDEWALK RAMP  
NO / UTILITY GRASS STRIP  
(TYPE 4b)**  
SEE NOTE 20 SHEET 1



**SINGLE DIRECTION  
PERPENDICULAR SIDEWALK RAMP  
W/ UTILITY GRASS STRIP (TYPE 4e)**  
REFER TO DETECTABLE WARNING PLACEMENT ON SHEET 4

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/27/2014

DESIGNER/DRAFTER: **MGB/EMK**  
CHECKED BY: **LLF**

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**  
APPROVED BY:

PROJECT TITLE:

FILENAME: ...SIDEWALK RAMP 2.GD.dgn

TOWN: PROJECT NO. DRAWING NO. SHEET NO.

DRAWING TITLE: **SIDEWALK RAMP SHEET 2**

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KURT A. PROCHORENA, PE No. 20375

ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172

IN OLD LYME CONNECTICUT

DETAILS

JUNE 9, 2016

REVISIONS:

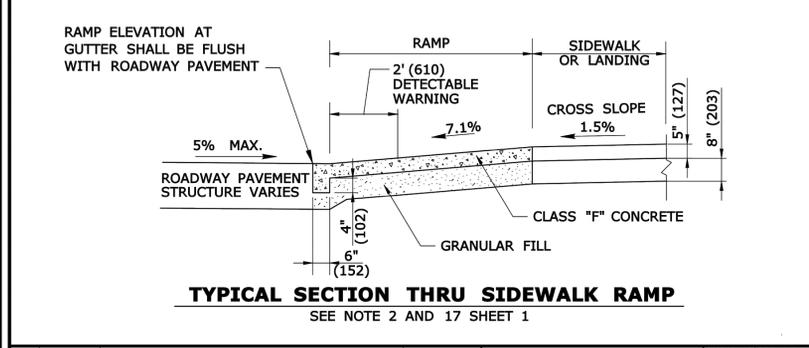
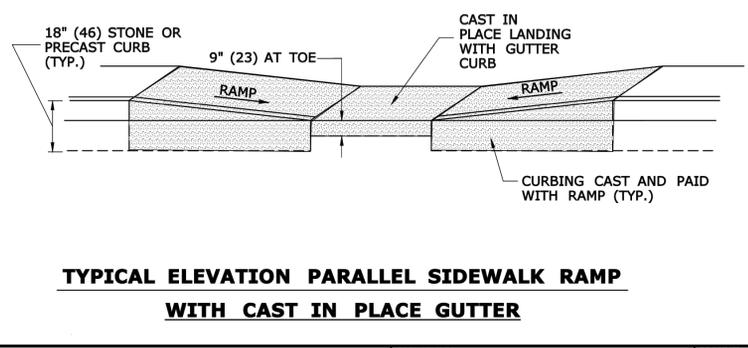
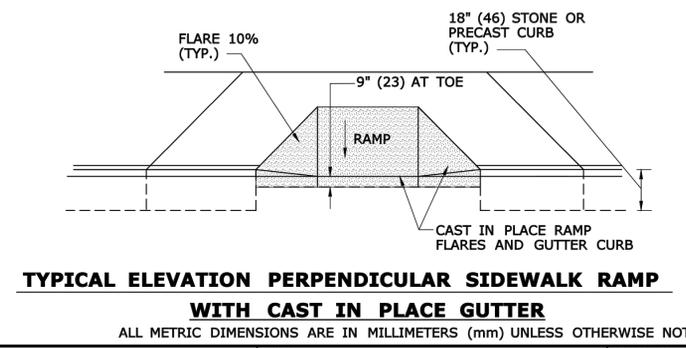
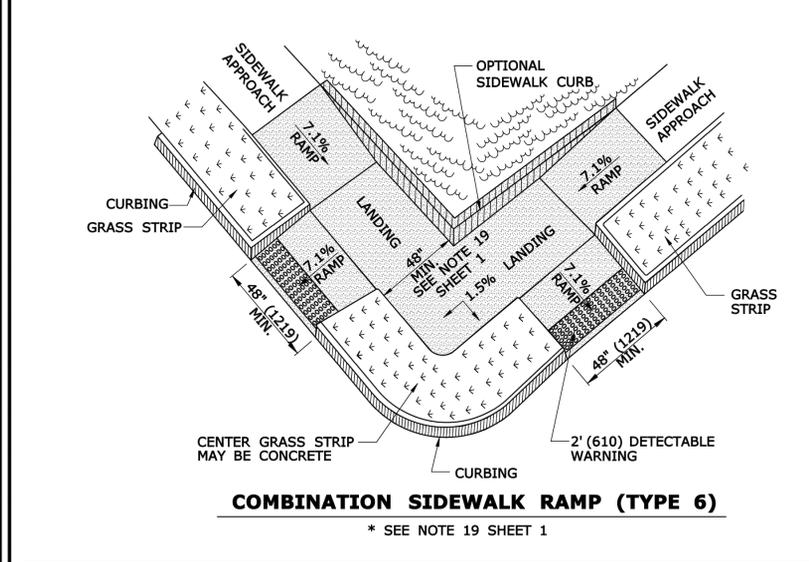
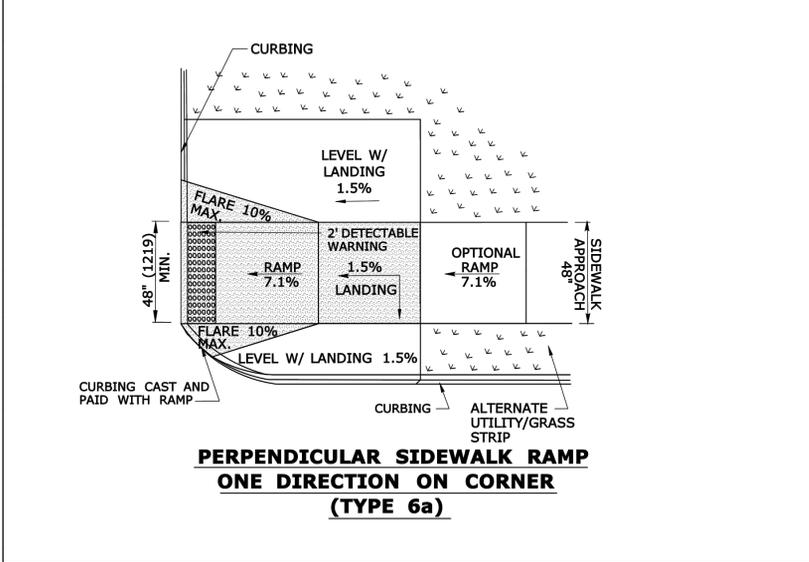
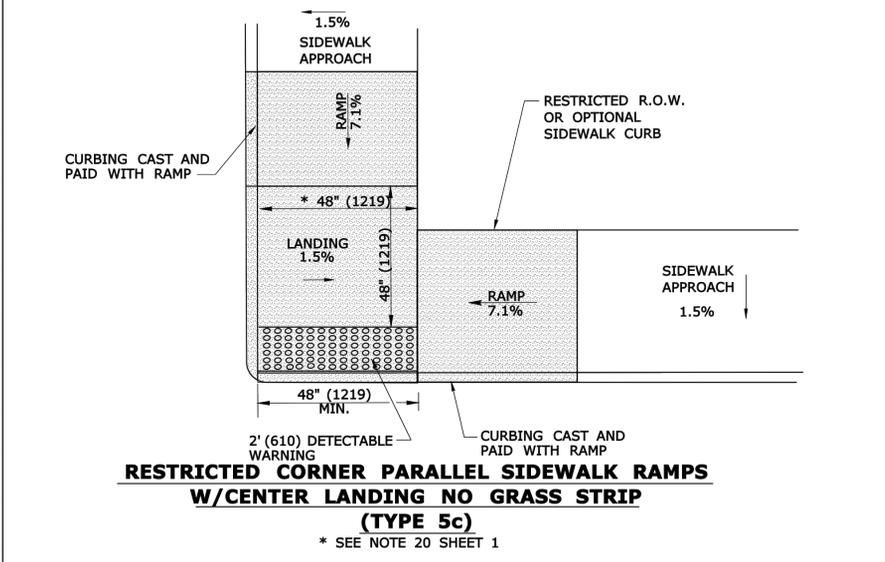
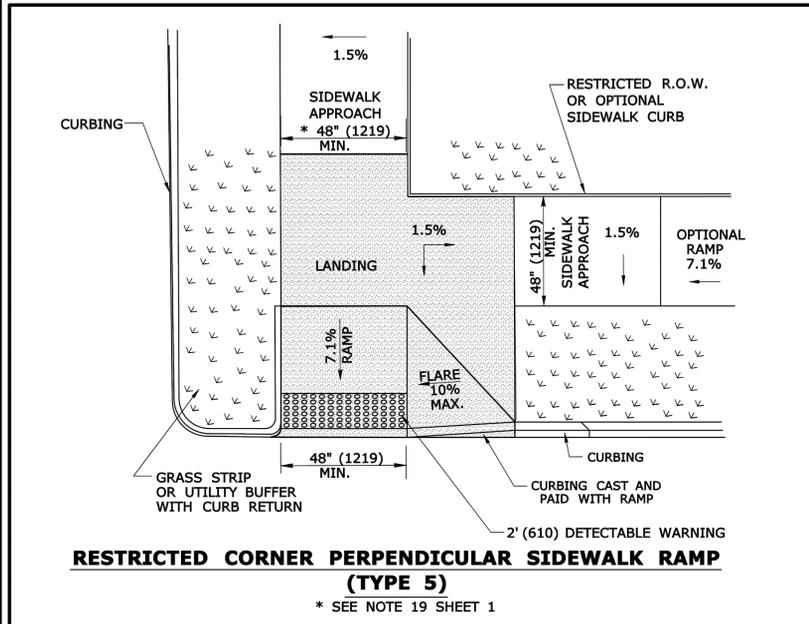
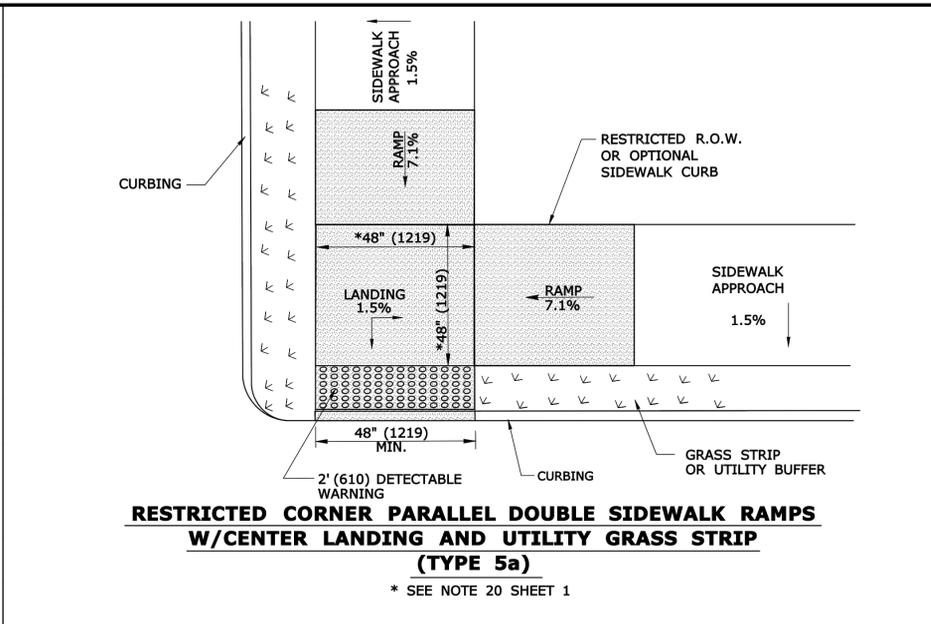
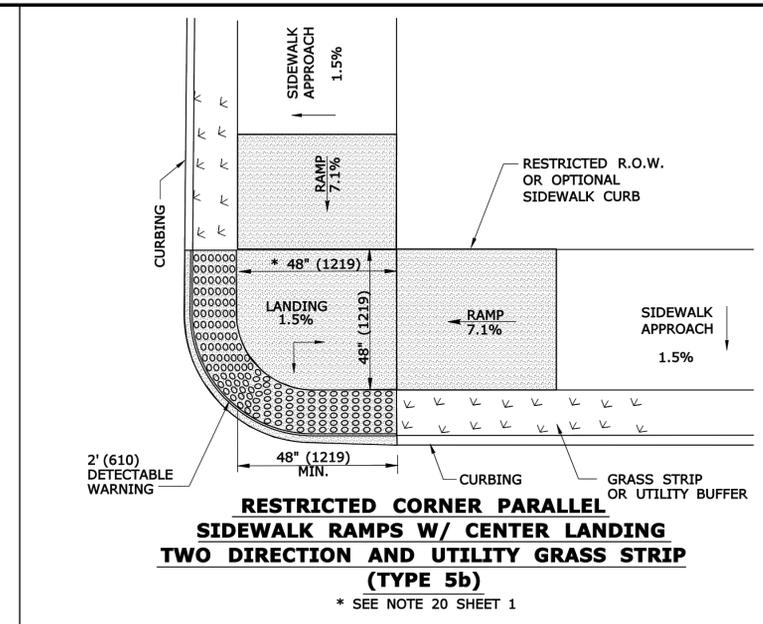
NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

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SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**  
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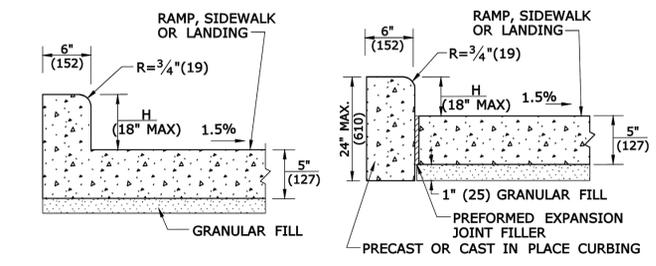
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TOWN: PROJECT NO.:  
DRAWING NO.:  
SHEET NO.:

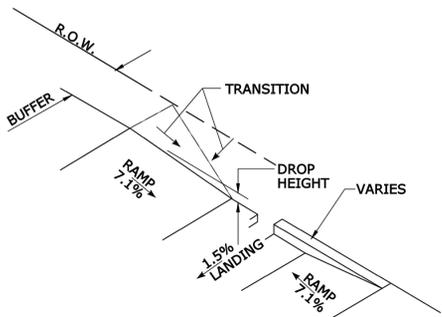
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

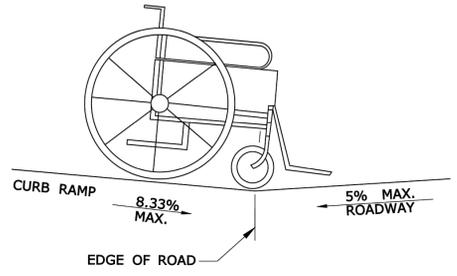
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**MONOLITHIC CAST CURB**      **SEPARATELY CAST CURB**  
**SIDEWALK CURB OPTIONS AT BACK OF SIDEWALK**



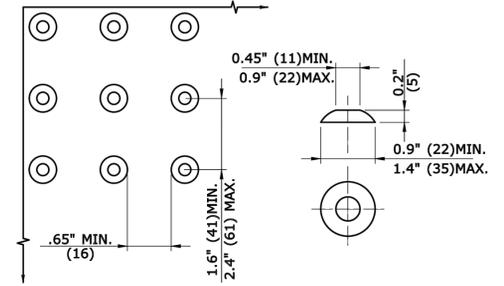
**BACK OF SIDEWALK CURB OR BUFFER TRANSITION**



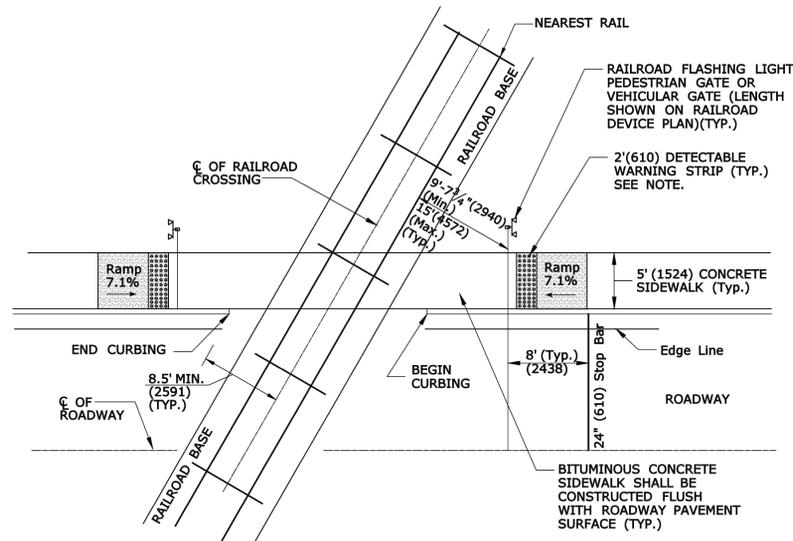
**DETAIL 1**  
**SEE GRADE CHANGE AT ROADWAY INTERFACE**  
 SEE NOTE 1 SHEET HW-921 02a

**GENERAL NOTES:**

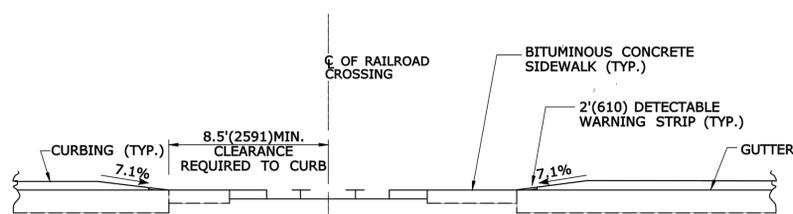
1. RAMPED MEDIANS SHALL HAVE A CURB RAMP AT EITHER END AND LEVEL LANDING A MINIMUM OF 5' x 5' (1.5m x 1.5m) IN BETWEEN. CUT-THROUGH MEDIANS SHALL BE A MINIMUM OF 6' (1.8m) LONG AND 5' (1.5m) WIDE. FOR ALL MEDIANS, CUT-THROUGH OR RAMPED, A 2' (610) STRIP OF DETECTABLE WARNINGS SHALL BE INSTALLED AT THE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



**DOME SPACING**      **DOME SECTION**  
**STANDARD DOME ON DETECTABLE WARNING TILES**



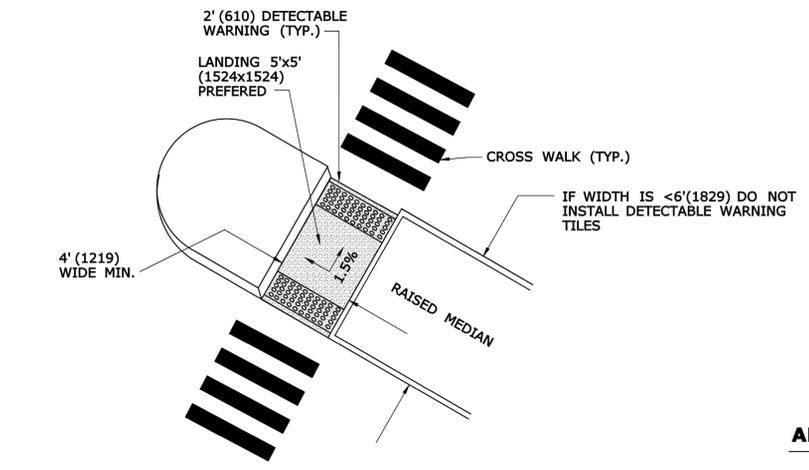
**PLAN VIEW**



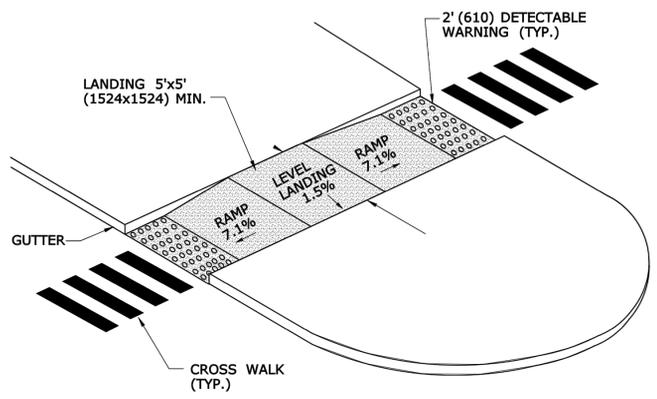
**ELEVATION VIEW**

**DETECTABLE WARNINGS AT RAILROAD CROSSING**

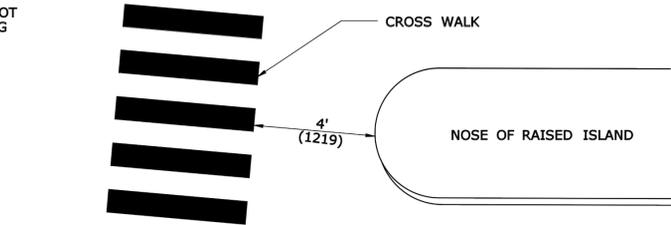
NOTE: WHEN NO GATE IS PRESENT, INSTALL DETECTABLE WARNING SURFACE 12' (3.6m) FROM THE NEAREST RAIL. IF GATE IS PRESENT, INSTALL DETECTABLE WARNING 2' (610) PRIOR TO GATE. THE ROWS OF TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE INSTALLED PARALLEL WITH THE DIRECTION OF PEDESTRIAN TRAVEL.



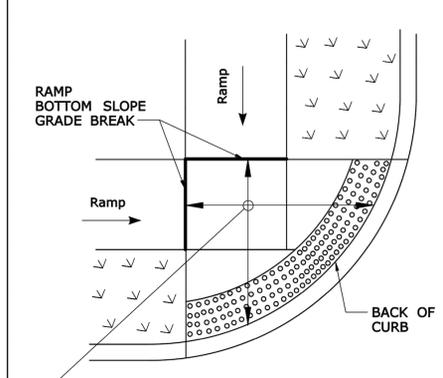
**CUT-THROUGH MEDIAN ISLAND**



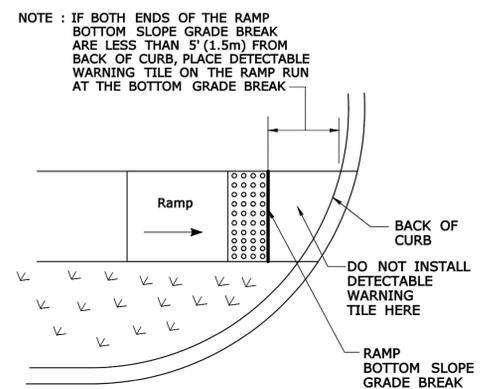
**RAISED MEDIAN ISLAND WITH LANDING AND RAMPS**



**ALTERNATE CROSSWALK WITH MEDIAN ISLAND PULLED BACK**



**DETECTABLE WARNING PLACEMENT DETAIL 1**



**DETECTABLE WARNING PLACEMENT DETAIL 2**

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



KURT A. PROCHORENA, PE No. 20375

**ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172**

IN  
**OLD LYME CONNECTICUT**  
 DETAILS

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
 TOWN OF OLD LYME  
 52 LYME STREET  
 OLD LYME, CT 06371

**BSC GROUP**  
 300 Winding Brook Drive  
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/27/2014

DESIGNER/DRAFTER:  
**MGB/EMK**  
 CHECKED BY:  
**LLF**

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION  
 FILENAME: ...SIDEWALK RAMP 4.GD.dgn

SIGNATURE/BLOCK:  
**OFFICE OF ENGINEERING**  
 APPROVED BY:

PROJECT TITLE:  
 TOWN:  
 PROJECT NO.  
 DRAWING TITLE:  
**SIDEWALK RAMP SHEET 4**

DRAWING NO.  
 SHEET NO.



KURT A. PROCHORENA, PE No. 20375

ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172

IN OLD LYME CONNECTICUT

DETAILS

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
300 Winding Brook Drive  
Glastonbury, Connecticut 06033  
860 652 8227

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SCALE: AS NOTED

FILE: P:\8348702\Civil\Drawings\8348702-CDet.dwg  
DWG. NO:  
JOB. NO: 83487.02 **DT-108**

R1 - SERIES		R2 - SERIES		R3 - SERIES				R4 - SERIES				R5 - SERIES																																																																																																																																																																											
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METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAWER: D. K. SWINBURNE  
CHECKED BY: L.N. CONROY  
Plotted: 2/22/2014  
Filename: CTDOT\_TRAFFIC\_GD.gpn

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

SIGNATURE/BLOCK: \_\_\_\_\_  
OFFICE OF ENGINEERING  
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT TITLE: \_\_\_\_\_  
TOWN: \_\_\_\_\_  
DRAWING TITLE: **SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS**  
DRAWING NO. **GS-1**  
SHEET NO. \_\_\_\_\_

REV. DATE REVISION DESCRIPTION

3	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
2	6-2010	INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

- NOTES:
- FOR METRIC SEE CONVERSION CHART.
  - THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R - SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
  - FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
  - POSTS - SEE TYP. SHEET (SHT #9) - "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
  - POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
  - FOR OVERHEAD MOUNTED SIGNS, SEE TYPICAL SIGNAL SHEET - "MISC. TRAFFIC SIGNAL INSTALLATION DETAILS."
  - SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
  - BACKGROUND SHEETING SHALL BE TYPE III RETROREFLECTIVE SHEETING, EXCEPT NOTED BY \*.
- \* THIS SIGN ADDED FOR THIS PROJECT ONLY (TYP.)
- COLORS:  
R-SERIES  
BACKGROUND - WHITE (SILVER) - EXCEPT AS NOTED.  
LEGEND - BLACK - EXCEPT AS NOTED.  
ALL COLORS SHALL BE RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.  
\* SIGNS TO BE "BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING".



KURT A. PROCHORENA, PE No. 20375

ROUTE 156 BIKE WAY AND SOUND VIEW IMPROVEMENTS PROJECT 104-172

IN OLD LYME CONNECTICUT

DETAILS

JUNE 9, 2016

REVISIONS:

NO.	DATE	DESC.

PREPARED FOR:  
TOWN OF OLD LYME  
52 LYME STREET  
OLD LYME, CT 06371

**BSC GROUP**  
300 Winding Brook Drive  
Glastonbury, Connecticut 06033  
860 652 8227

© 2016 BSC Group, Inc.  
SCALE: AS NOTED

S - SERIES	W1 - SERIES	W2 - SERIES	W3 - SERIES	W4 - SERIES	W5 - SERIES	W6 - SERIES	W7 - SERIES	W8 - SERIES	W9 - SERIES																																																																																																																																																																																																														
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16.00	48	41-4068	2	.100																																																																																																																																																																																																																			
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9.00	36	41-4083	1	.080																																																																																																																																																																																																																			
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6.25	30	41-4810	1	.080																																																																																																				
9.00	36	41-4811	1	.080																																																																																																				
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6.25	30	41-4213	1	.080																																																																																																				
9.00	36	41-4215	1	.080																																																																																																				
16.00	48	41-4214	2	.100																																																																																																				
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2.25	18x18	41-5568	1	.080																																																																																																				
4.00	24x24	41-5569	1	.080																																																																																																				
7.00	30x30	41-5573	1	.080																																																																																																				
16.00	48x48	41-5572	1	.100																																																																																																				
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\*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

\*\*REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
	HW-506_03	ENDWALLS FOR PIPE ARCH	9-18-09
	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13
	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13
	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13
	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11
	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11
	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11
	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11
	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09
	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12
	HW-507_10	MANHOLE - FRAME & COVER	7-24-13
	HW-601_01	FIGURES FOR DATES ON BRIDGE PARAPETS	6-09-11
	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13
	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12
	HW-652_01	PIPE ENDS	7-24-13
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
	HW-803_01	PAVED DITCH AND PAVED APRON	7-12-12
	HW-811_01	CURBING	7-12-12
	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
	HW-821_01a	TRANSITION 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_01b	TRANSITION 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_01c	TRANSITION 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13
	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13
	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13

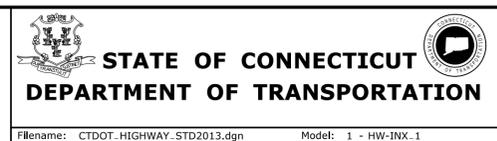
✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-6-12
	HW-821_07	MISCELLANEOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
	HW-905_01	FENCES AND BARWAYS	7-13-12
	HW-910_01	W- BEAM METAL BEAM RAIL HARDWARE	6-09-11
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	6-09-11
	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
	HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
	HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
	HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
	HW-910_17	R-B TERMINAL SECTION	7-24-13
	HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13
	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	7-24-13
	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	7-24-13

1	7-24-13	REVISED 23 SHEETS
REV. DATE		REVISION DESCRIPTION

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: 7/25/2013

NOT TO SCALE

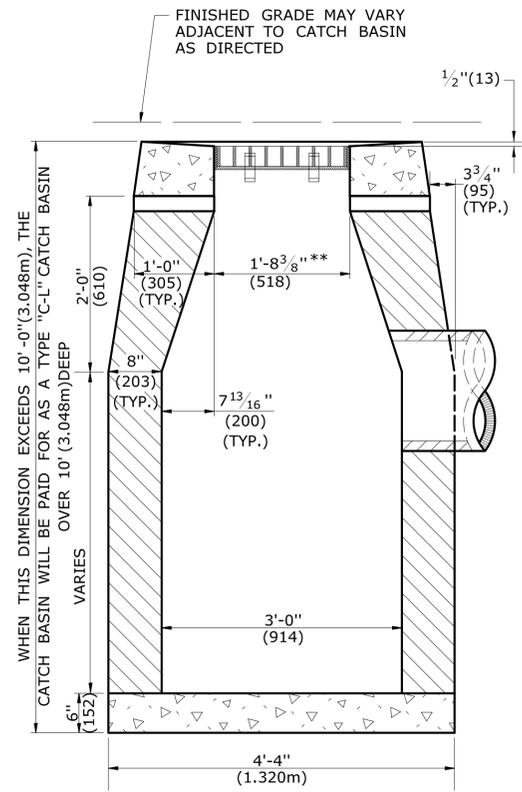


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STANDARD SHEET

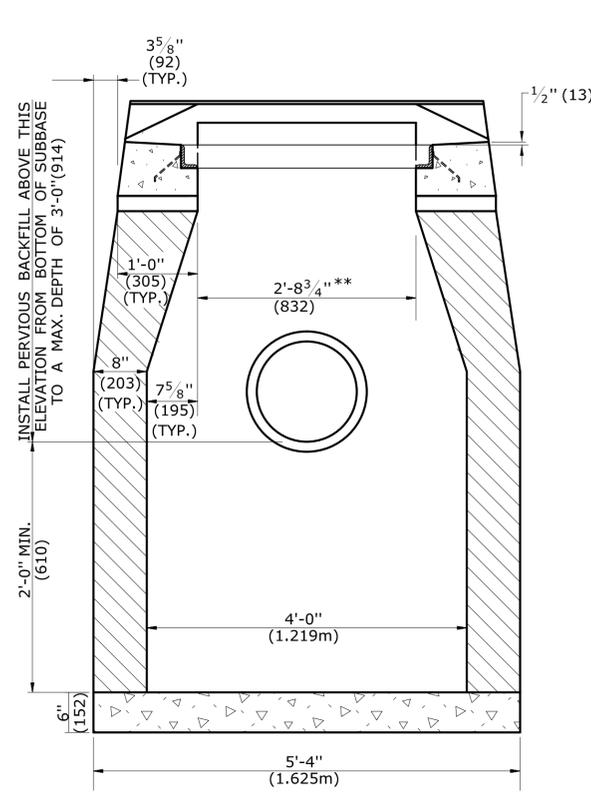
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**HIGHWAY  
STANDARD SHEET INDEX**

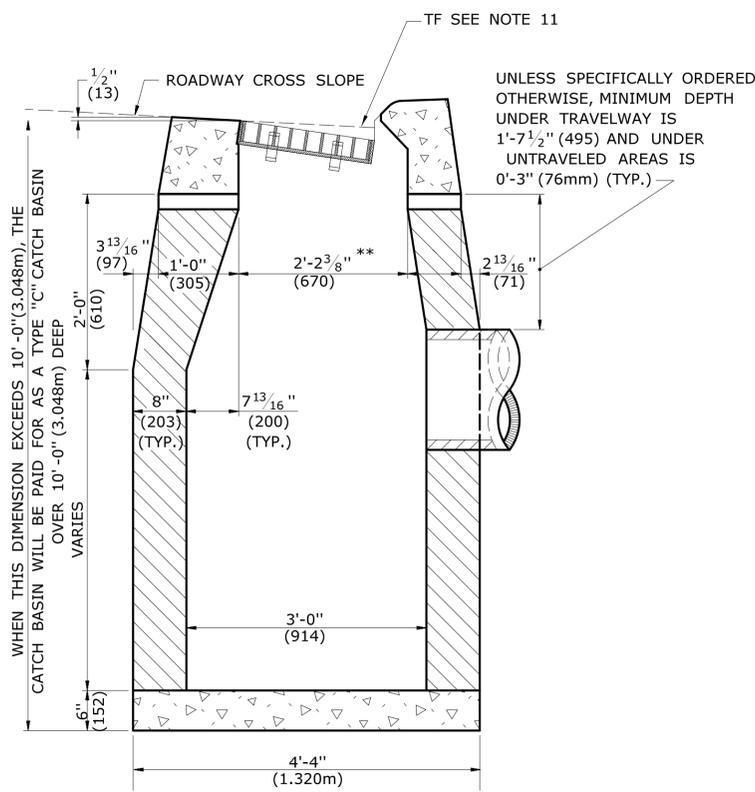
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**HW\_INX  
1 of 2**



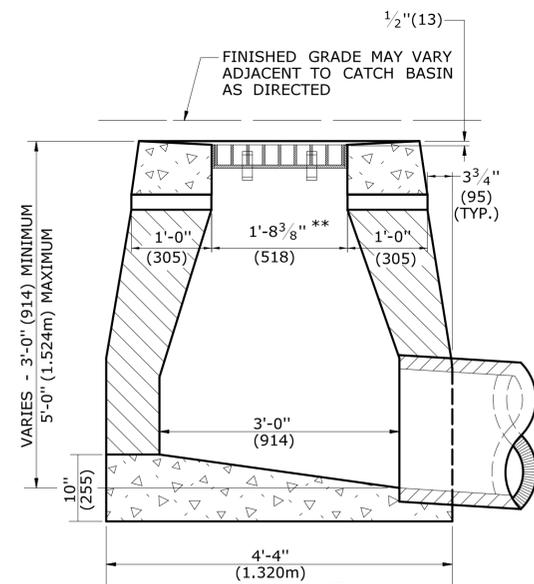
**SECTION B**  
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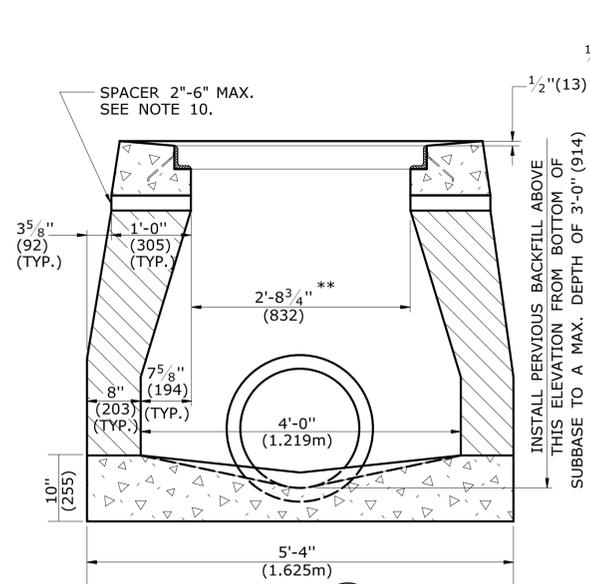
**SECTION A**  
**TYPE "C" & "C-L" CATCH BASIN  
(TYPE "C" TOP SHOWN)**



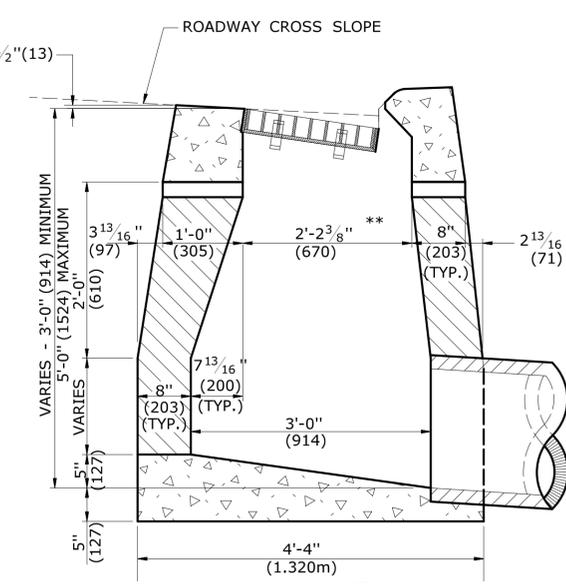
**SECTION B**  
**TYPE "C" CATCH BASIN**



**SECTION B**  
**TYPE "C-L" DROP INLET**



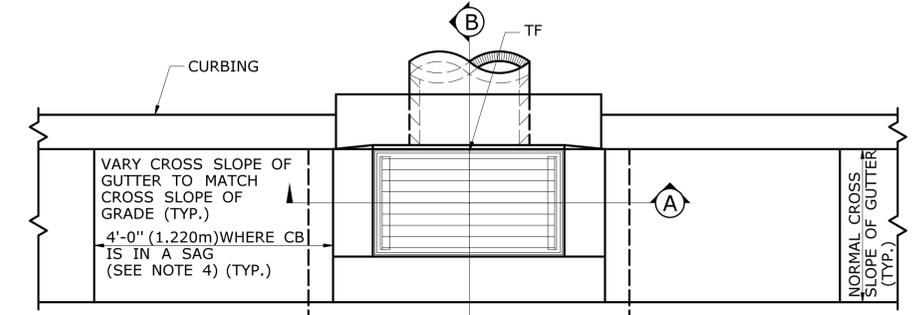
**SECTION A**  
**TYPE "C" & "C-L" DROP INLET  
(TYPE "C-L" TOP SHOWN)**



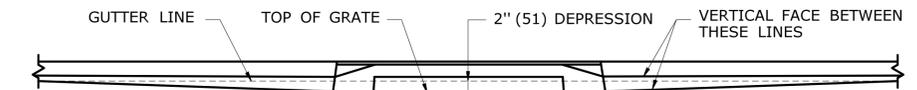
**SECTION B**  
**TYPE "C" DROP INLET**

**GENERAL NOTES:**

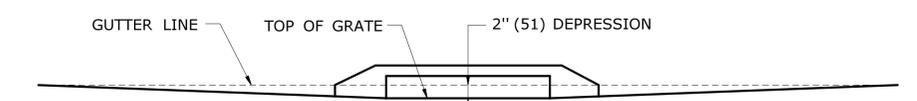
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507-08.
- USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL. THE COST FOR THE PAPER SHALL BE INCLUDED IN THE BID PRICE FOR THE TYPE OF CATCH BASIN INSTALLED.
- USE 6'-0" (1.830m) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305mm) ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
- IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVER ALL DIMENSIONS SHOWN HERE AND SECTION 5.07 OF THE STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3" (75mm.) NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY \*\*.
- WALL THICKNESS OF ALL CB'S OVER 10' (3.048m) DEEP SHALL BE INCREASED TO 12" (305mm) THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" (305mm) THICKNESS WILL START AFTER THE FIRST 10' (3.048m).
- TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F<sub>c</sub> = 4000 PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO SHIPPING.
- LATEST STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
- SPACER MAY BE CMU OR PRECAST WITH REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE PROPER GRADE SHOWN ON PLANS.
- TOP OF FRAME (TF) ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE @ GUTTER LINE.



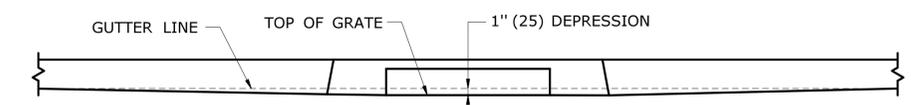
**PLAN**



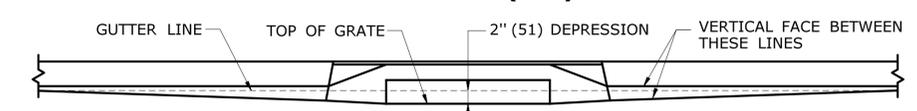
**FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING**



**FOR CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED**



**FOR CATCH BASINS IN A LINE OF 6" (152) CONCRETE CURBING OR 6" (152) STONE CURBING**



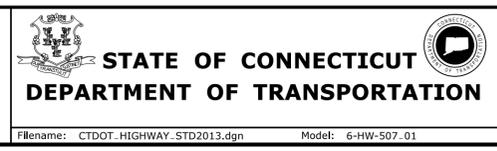
**FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)**

**DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN**

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

4	7/13	ADD NOTE 11	-
3	9/30/11	ADD SPACERS AND NOTE 10.	-
2	9/15/11	MODIFIED DETAILS TO BE CONSISTANT WITH PRECAST	-
1	7/28/11	REMOVE MIN. DROP NOTE	-
-	-	-	-
REV.	DATE	REVISION DESCRIPTION	

NOT TO SCALE

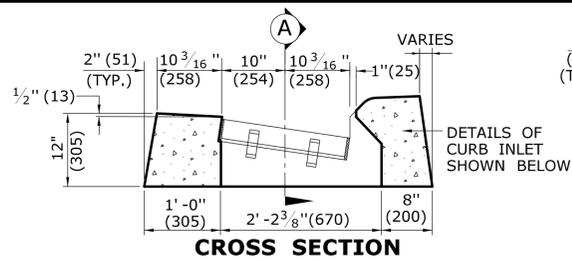


SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

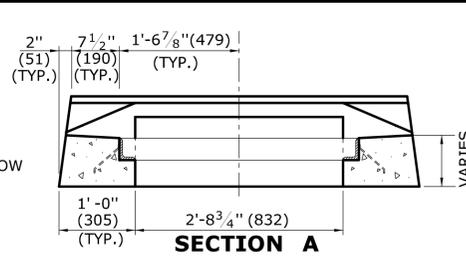
**CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:  
**TYPE "C", "C-L" &  
DROP INLET CATCH BASIN**

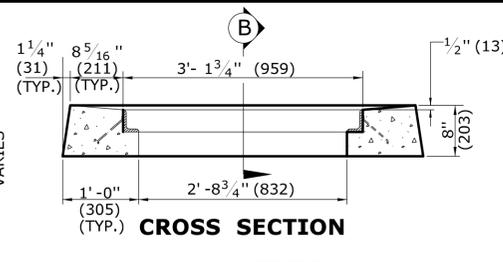
STANDARD SHEET NO.:  
**HW-507\_01**



**CROSS SECTION**  
**TYPE "C" CATCH BASIN TOP**

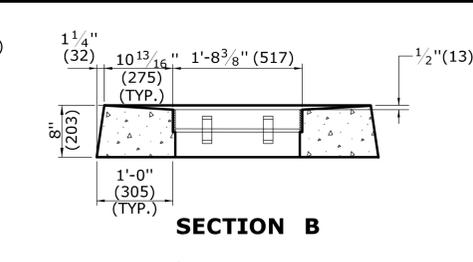


**SECTION A**



**CROSS SECTION**

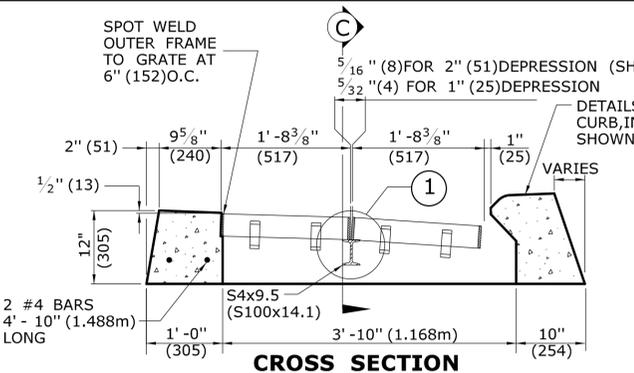
**TYPE "C-L" CATCH BASIN TOP**



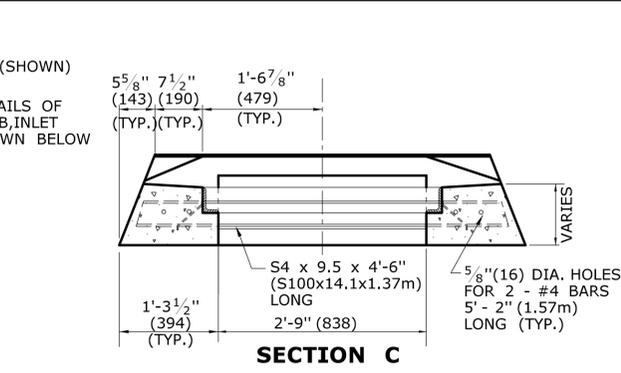
**SECTION B**

**GENERAL NOTES:**

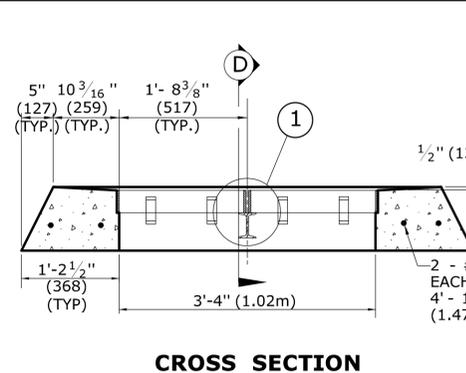
1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507-08.
2. ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT'S STANDARD SPECIFICATIONS.
3. ALL BARS SHALL HAVE A MINIMUM 2" (51) COVER.



**CROSS SECTION**  
**TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP**

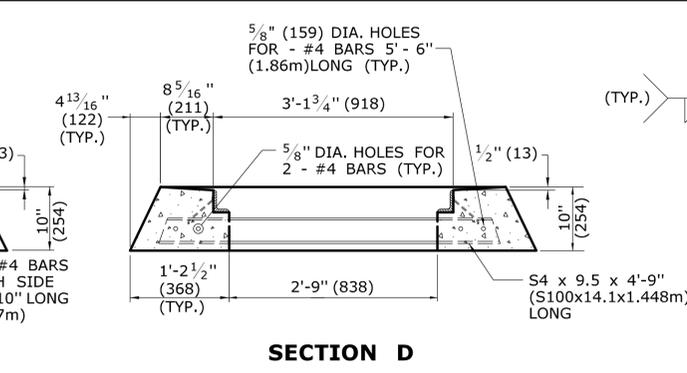


**SECTION C**

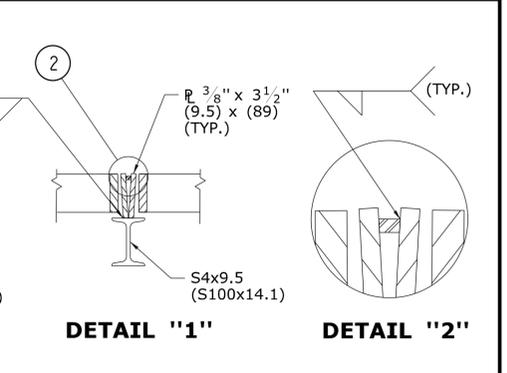


**CROSS SECTION**

**TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP**

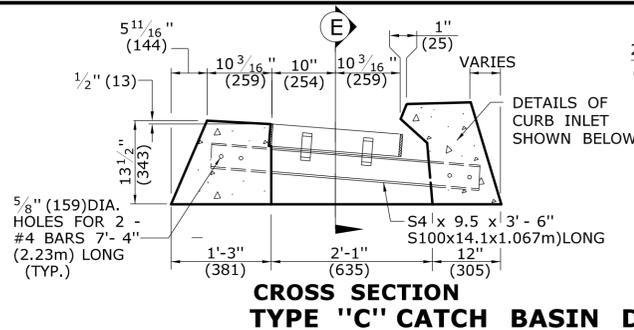


**SECTION D**

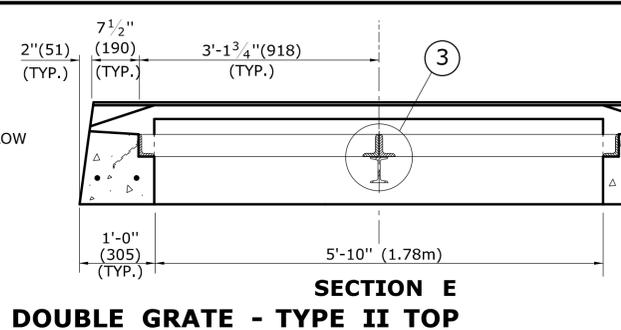


**DETAIL "1"**

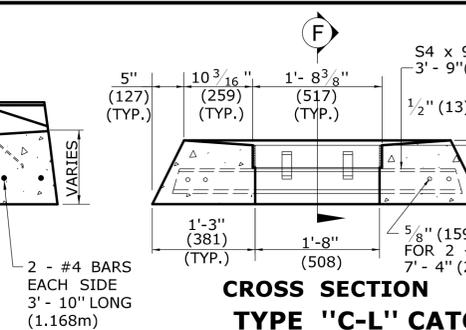
**DETAIL "2"**



**CROSS SECTION**  
**TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP**

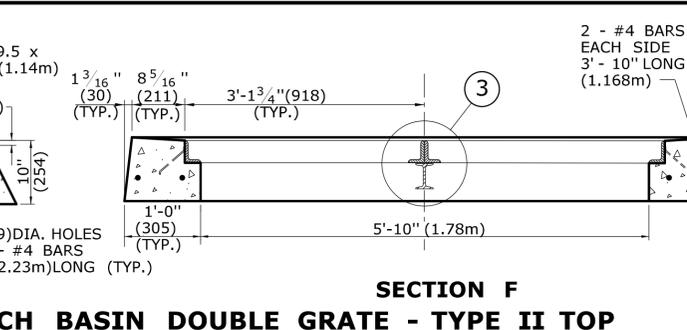


**SECTION E**

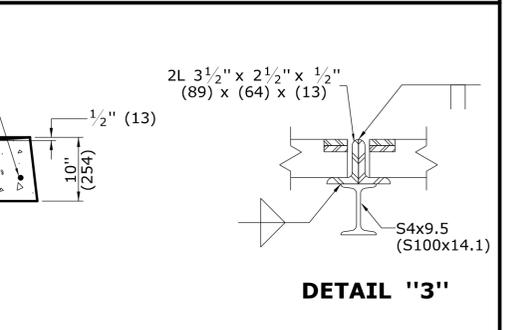


**CROSS SECTION**

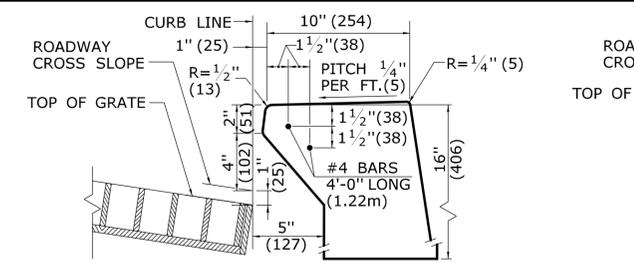
**TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP**



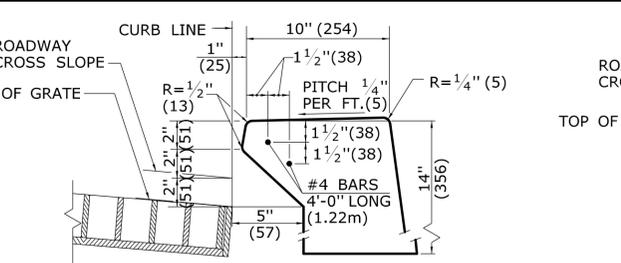
**SECTION F**



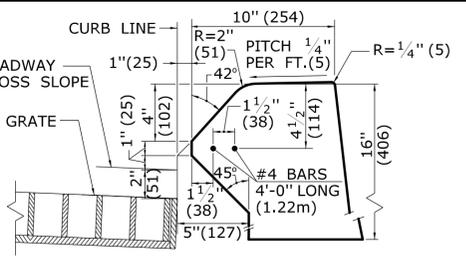
**DETAIL "3"**



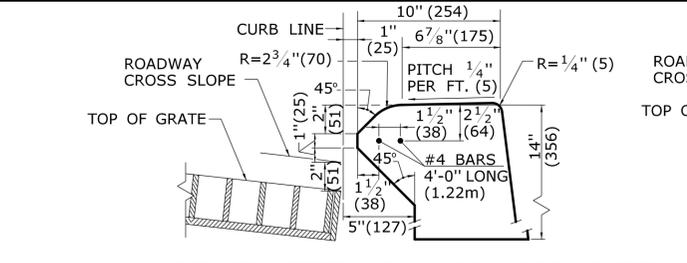
**INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB**



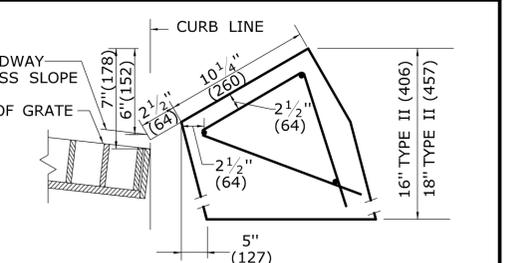
**INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB**



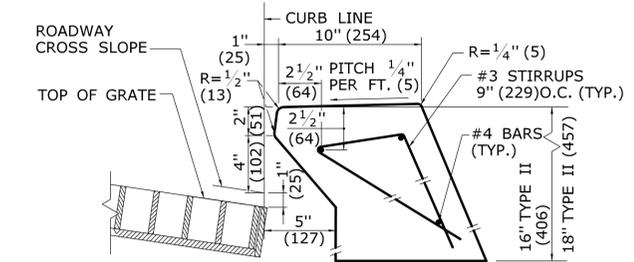
**INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB**



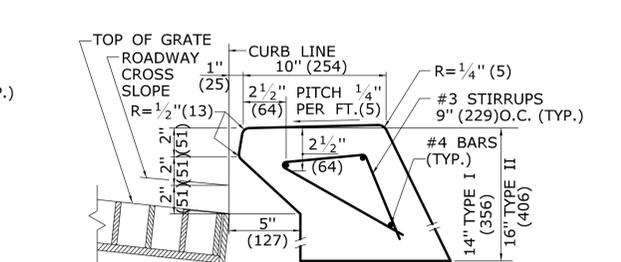
**INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB**



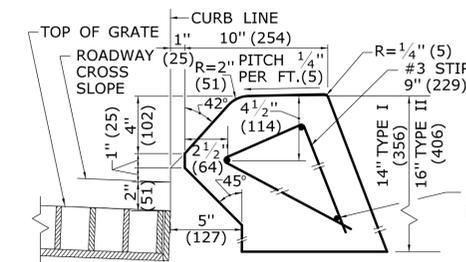
**INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB**



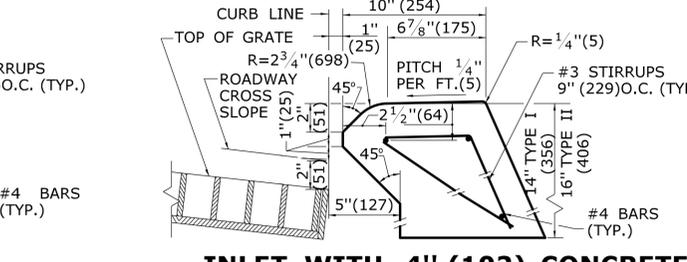
**INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



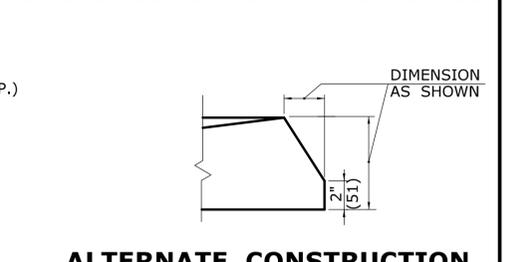
**INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**ALTERNATE CONSTRUCTION OF TYPE II TOP**

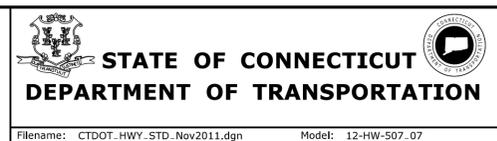
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
2	7/28/11	REMOVE MIN. DROP NOTE
1	6/01/10	REVISE CALL-OUT

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: 11/10/2011

NOT TO SCALE

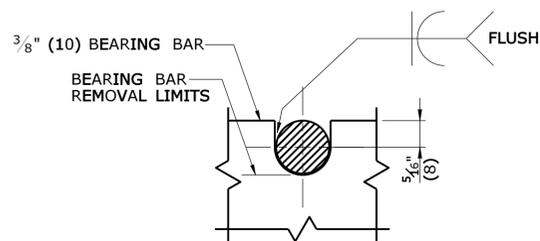


SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

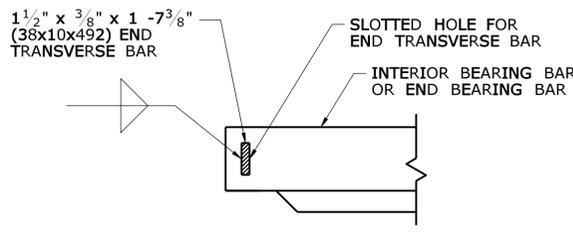
STANDARD SHEET TITLE:  
**TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS**

STANDARD SHEET NO.:  
**HW-507\_07**

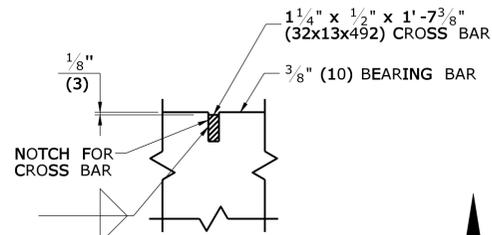


NOTE:  
5/8" (16) DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

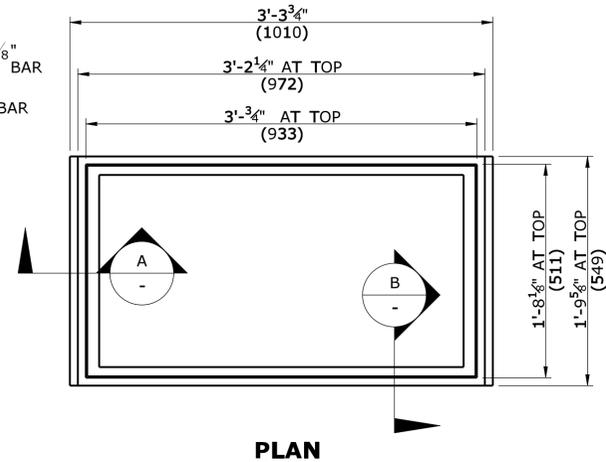
**ROUND BAR ATTACHMENT  
CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT  
CATCH BASIN GRATE TYPE A & B**



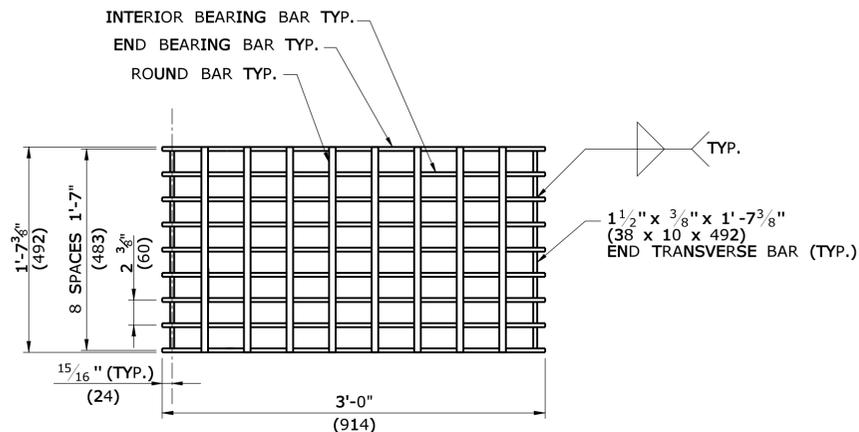
**CROSS BAR ATTACHMENT  
CATCH BASIN GRATE TYPE B**



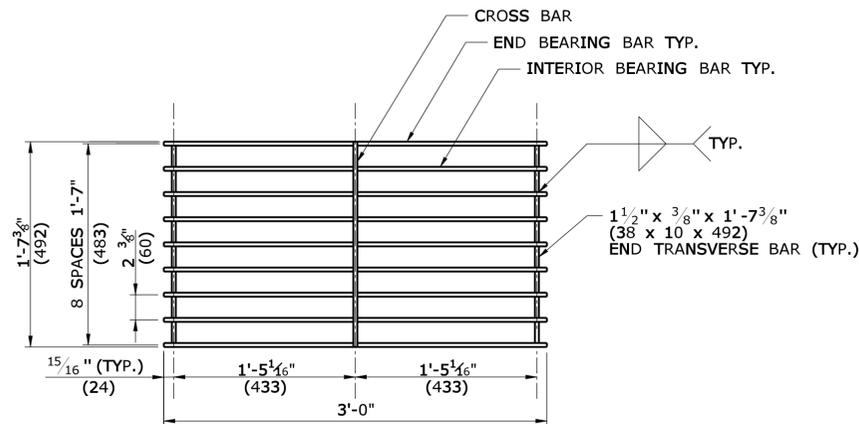
**PLAN**

**GENERAL NOTES:**

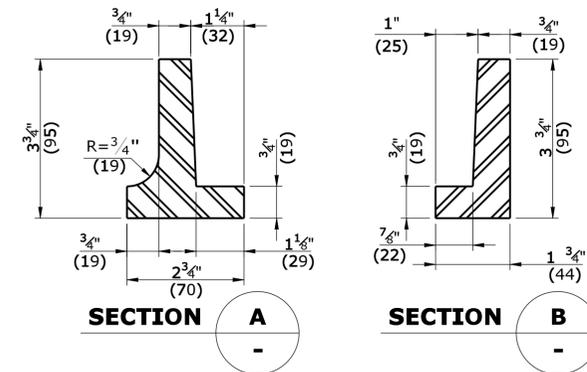
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" & "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH ARTICLE M.06.03.
5. DO NOT GALVANIZE CAST IRON FRAMES.
6. DIMENSIONAL TOLERANCES SHALL BE  $\pm 1/16"$  (1.6)
7. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.
8. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS STRUCTURAL WELDING CODE, D1.1.



**PLAN**



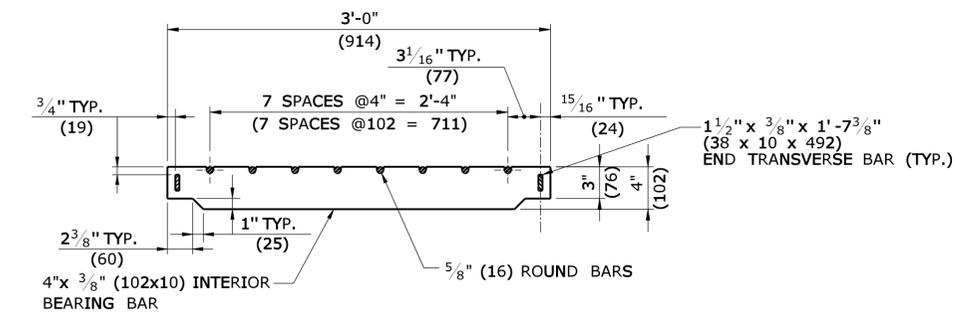
**PLAN**



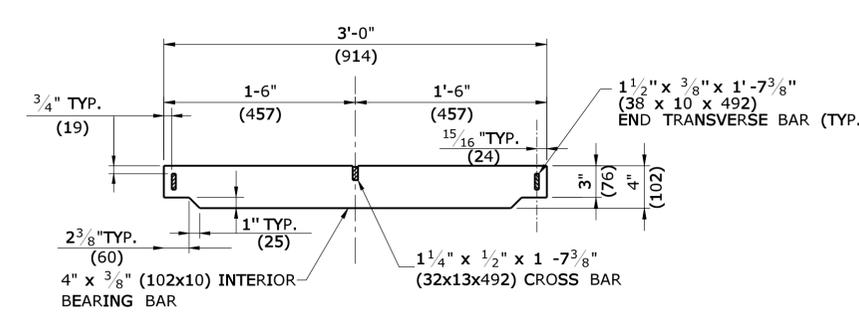
**SECTION A**

**SECTION B**

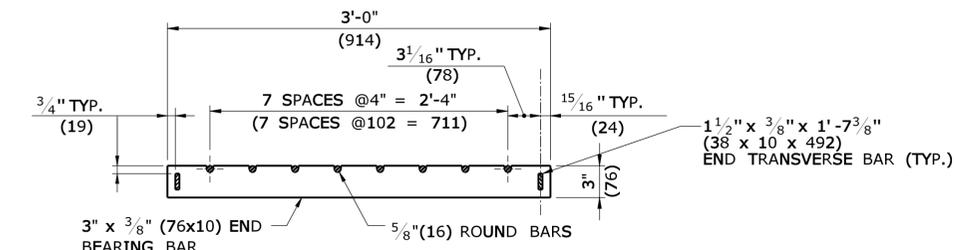
**CAST IRON FRAME ALTERNATE**



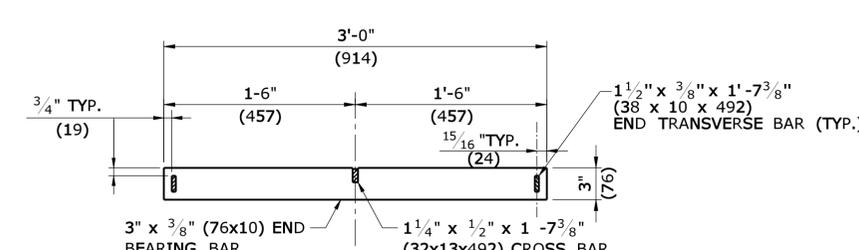
**ELEVATION- INTERIOR BEARING BAR**



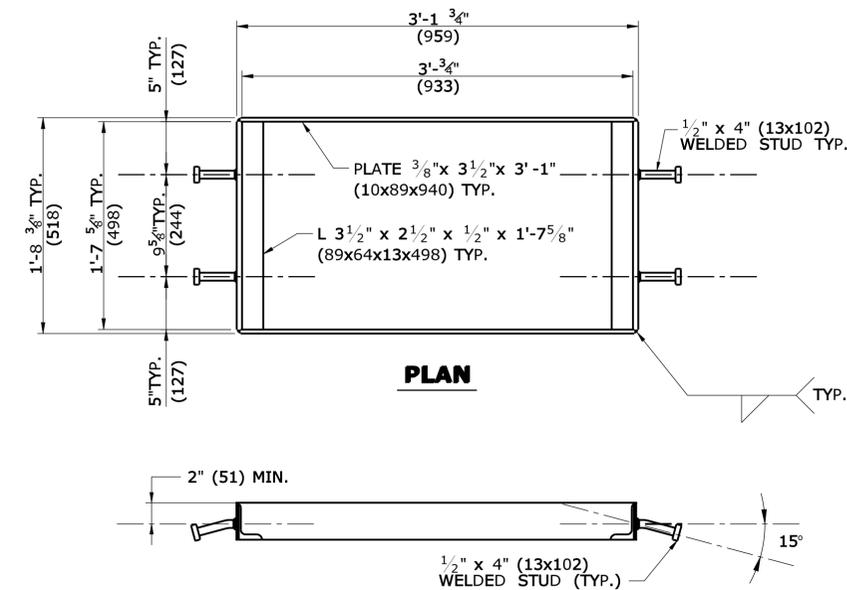
**ELEVATION- INTERIOR BEARING BAR**



**ELEVATION- END BEARING BAR  
CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR  
CATCH BASIN GRATE TYPE B**



**WELDED STUD ANCHOR DETAILS  
STEEL FRAME**

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

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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.

NOT TO SCALE

Plotted Date: 9/11/2009

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: CTDOT\_HIGHWAY\_STD.dgn Model: HW-507\_08

SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

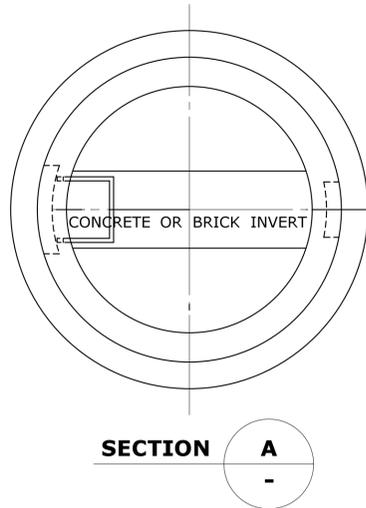
STANDARD SHEET TITLE:  
**CATCH BASIN FRAMES AND GRATES**

STANDARD SHEET NO.:  
**HW-507\_08**

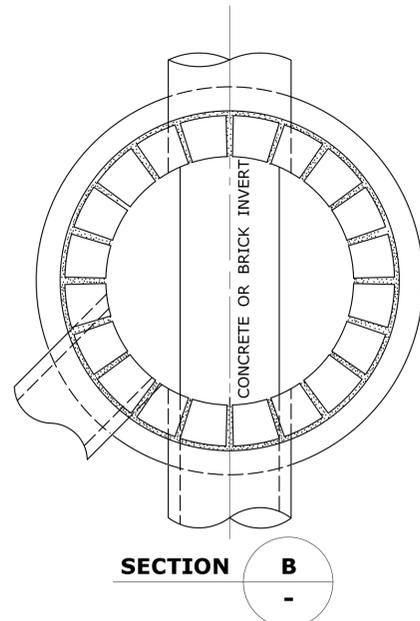
**GENERAL NOTES:**

- CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY.
- A FRAME DIAMETER OF 3'-3" (991) WITH 4" (102) FLANGE MUST BE USED WHEN THE TOP DIAMETER OF THE PRECAST CONE IS LESS THAN 3'-6" (1067). ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
- COVER:
 

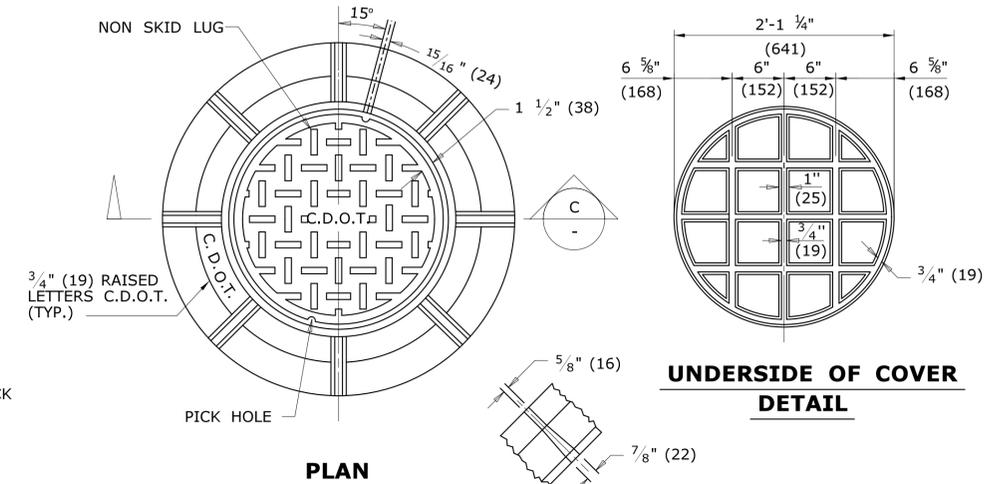
	CAST IRON	STEEL
MIN. COVER WEIGHT	134LB.(61kg)	134LB.(61kg)
- ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.



**SECTION A**

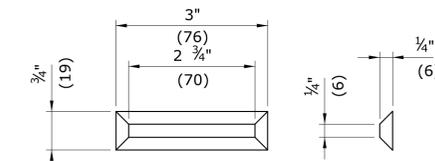


**SECTION B**

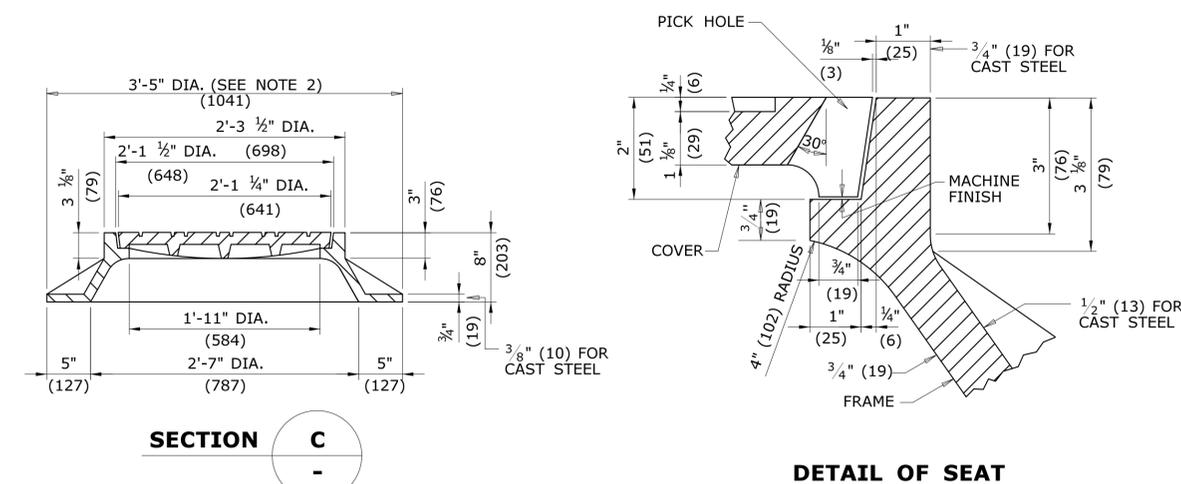


**PLAN**

**UNDERSIDE OF COVER DETAIL**



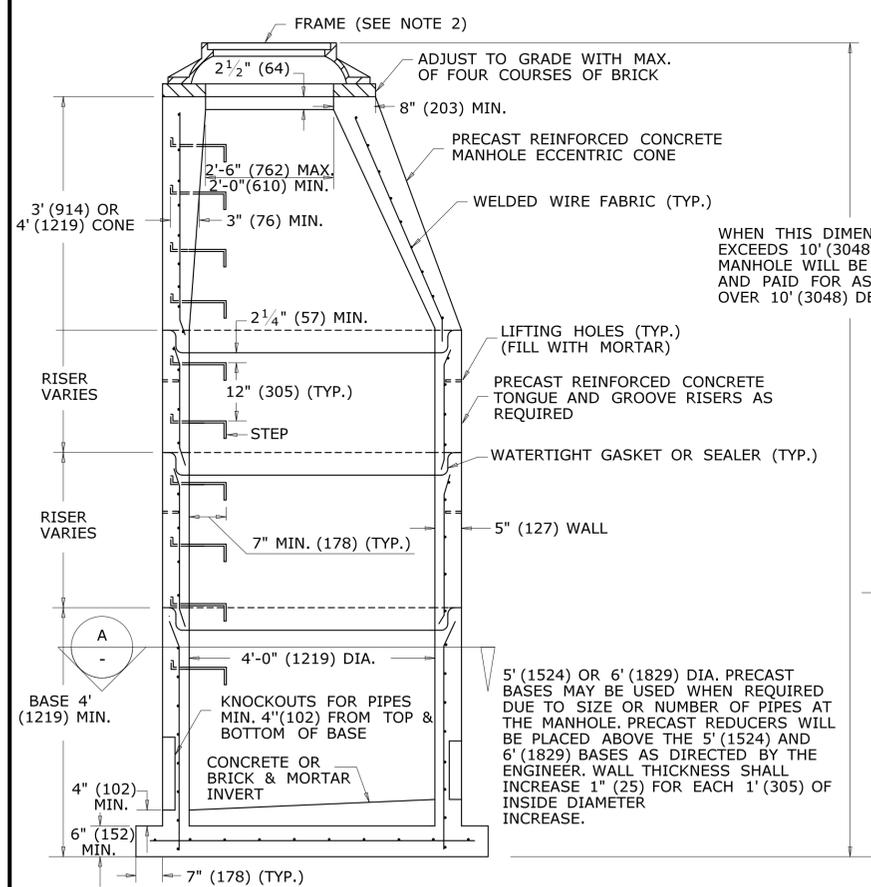
**NON SKID LUG DETAIL**



**SECTION C**

**DETAIL OF SEAT**

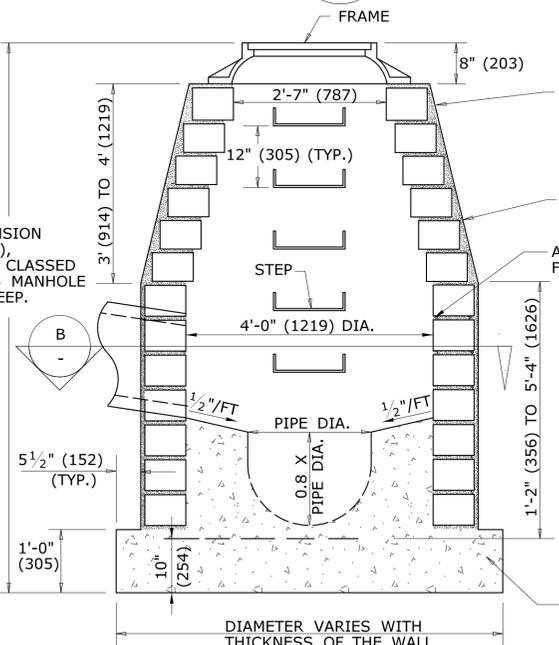
**FRAME AND COVER DETAILS**



**ELEVATION**

**MANHOLE**

REINFORCED PRECAST CONCRETE UNIT



**ELEVATION**

**MANHOLE**

MASONRY CONCRETE UNIT OR CLASS "A" CONCRETE

WALL SHALL BE A MIN. OF 6"(152) WITH MASONRY CONCRETE UNITS, CLASS "A" CONCRETE WALL SHALL BE 12"(300) THICK WHEN DEPTH OF MANHOLE IS GREATER THAN 10'(3048) DEEP.

MASONRY WALLS SHALL BE PLASTERED OUTSIDE WITH 2:1 CEMENT MORTAR 1/2"(13) THICK. MASONRY MUST BE WET WHEN MORTAR IS APPLIED.

ALL JOINTS SHALL BE POINTED FLUSH AND FULL

WALLS SHALL BE BUILT OF MASONRY CONCRETE UNITS OR CLASS "A" CONCRETE AT THE OPTION OF THE CONTRACTOR.

MASONRY CONCRETE UNITS SHALL BE LAID IN CEMENT SAND MORTAR 1:2 MIX, JOINTS SHALL NOT BE OVER 1/2"(13) ON INSIDE FACE

WHEN THIS DIMENSION EXCEEDS 10' (3048), MANHOLE WILL BE CLASSED AND PAID FOR AS MANHOLE OVER 10' (3048) DEEP.

5' (1524) OR 6' (1829) DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' (1524) AND 6' (1829) BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS SHALL INCREASE 1" (25) FOR EACH 1' (305) OF INSIDE DIAMETER INCREASE.

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

1	6/11	REVISE STEP WIDTH PER OSHA
2	7/13	REVISE COVER FRAME WEIGHT
-	-	-
-	-	-
-	-	-
-	-	-
REV.	DATE	REVISION DESCRIPTION

NOT TO SCALE

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

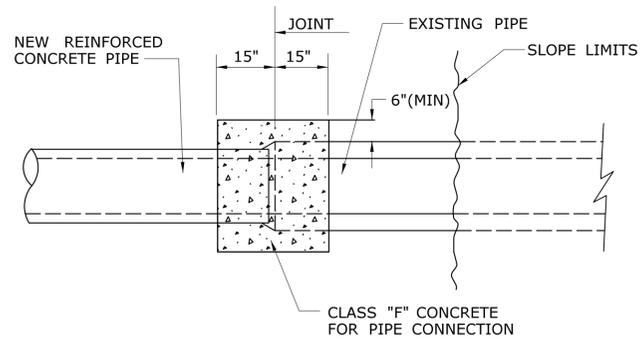
SUBMITTED BY: \_\_\_\_\_ NAME/DATE/TIME: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ NAME/DATE/TIME: \_\_\_\_\_

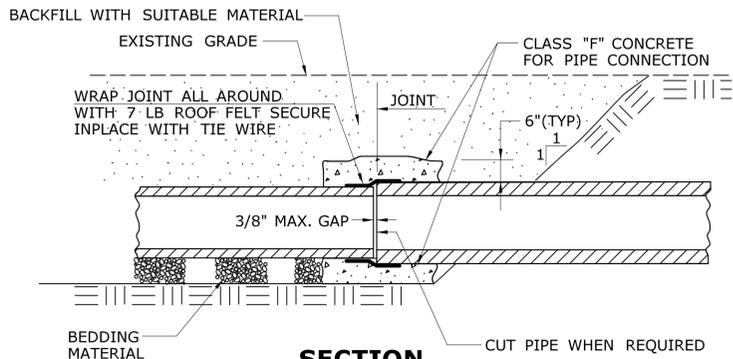
**CTDOT**  
**STANDARD SHEET**  
**OFFICE OF ENGINEERING**

STANDARD SHEET TITLE: **MANHOLE - FRAME & COVER**

STANDARD SHEET NO.: **HW-507\_10**



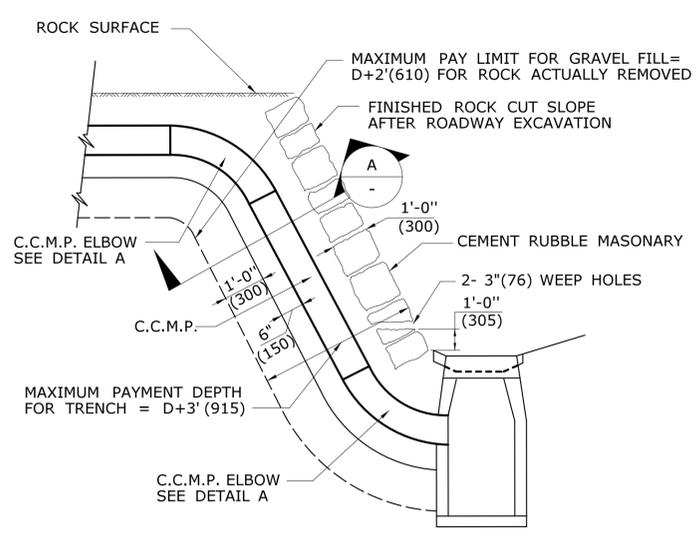
**PLAN**



**SECTION  
CONCRETE PIPE CONNECTION**

**NOTES:**

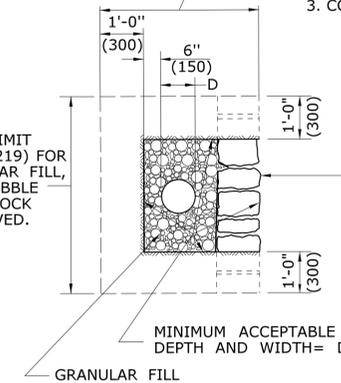
1. "CONCRETE PIPE CONNECTION" IS INTENDED FOR USE WHERE A REINFORCED CONCRETE PIPE REPAIR OR MODIFICATION IS NEEDED SOMEWHERE WITHIN A PIPE RUN WHERE A BELL/SPIGOT JOINT CANNOT BE ACHIEVED.
2. MAINTAIN INTERIOR ALIGNMENT OF PIPE AT JOINTS UNTIL CONCRETE IS PROPERLY CURED.
3. BACKFILL OF PIPE REPAIR WITH SUITABLE MATERIAL MAY NOT TAKE PLACE UNTIL CONCRETE IS PROPERLY CURED.
4. CONTRACTOR SHALL MAINTAIN LINE AND GRADE OF PIPE REPAIR OR MODIFICATION BY METHODS APPROVED BY THE ENGINEER.
5. HOLES OR GAPS AT JOINT LARGER THAN 3/8" SHALL BE FILLED OR WRAPPED TO PREVENT CONCRETE FROM ENTERING PIPE.
6. TRENCH EXCAVATION SHALL BE TO THE MAXIMUM EXTENT NEEDED TO PERFORM WORK.



**TYPICAL INSTALLATION OF C.C.M.P. IN ROCK SLOPE**

MAXIMUM PAY LIMIT DEPTH FOR TRENCH =  $D+3'(915)$ . MAXIMUM PAY LIMIT FOR GRAVEL FILL =  $D+2'(610)$  FOR ROCK ACTUALLY REMOVED.

MAXIMUM PAY LIMIT WIDTH =  $D+4'(1219)$  FOR TRENCH, GRANULAR FILL, AND CEMENT RUBBLE MASONRY FOR ROCK ACTUALLY REMOVED.



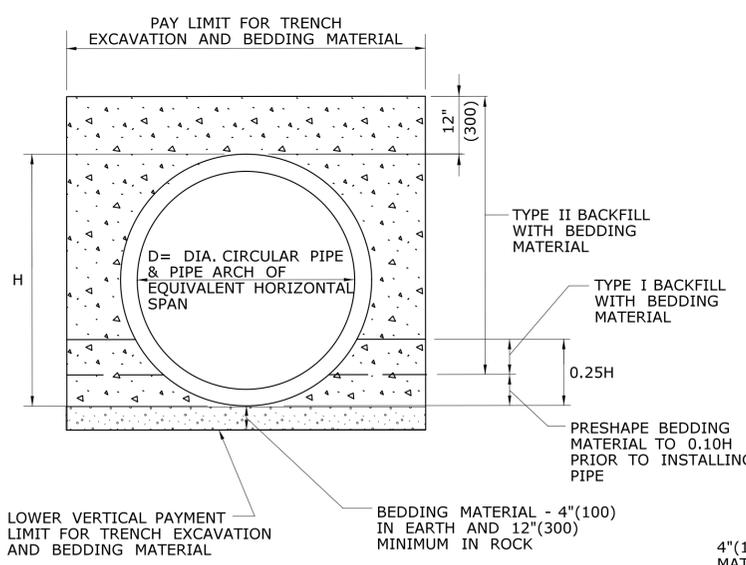
**SECTION A**

**GENERAL NOTES:**

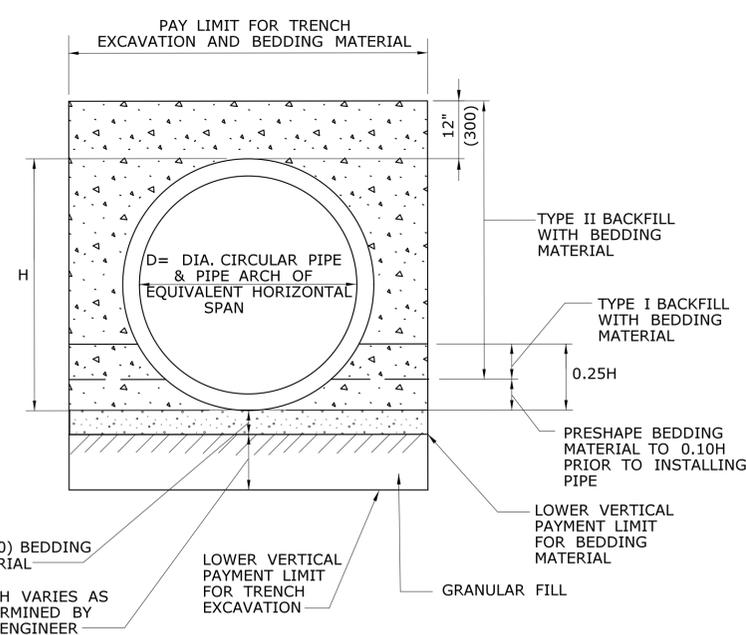
1. ROCK REMOVED BEYOND THE MAXIMUM PAY LIMIT SHOWN SHALL BE REPLACED WITH CEMENT RUBBLE MASONRY AND GRANULAR FILL.
2. FILL, AS REQUIRED TO CLOSE THE OPENING AS SHOWN ON THE PLANS, WILL BE AT THE CONTRACTORS EXPENSE. HOWEVER, THE PAY LIMIT LINES MAY BE MODIFIED TO COINCIDE WITH NATURAL FAULTS OR FISSURES OF ROCK AS THE ENGINEER MAY DETERMINE.
3. COATED CORRUGATED METAL PIPE (C.C.M.P.)

1'-0" (300) CEMENT RUBBLE MASONRY FOR FULL WIDTH OF TRENCH OPENED. THE CEMENT RUBBLE MASONRY SHALL BE COMPOSED OF ROCK OF THE SAME APPEARANCE AS, OR SIMILAR TO THE ADJACENT ROCK CUT.

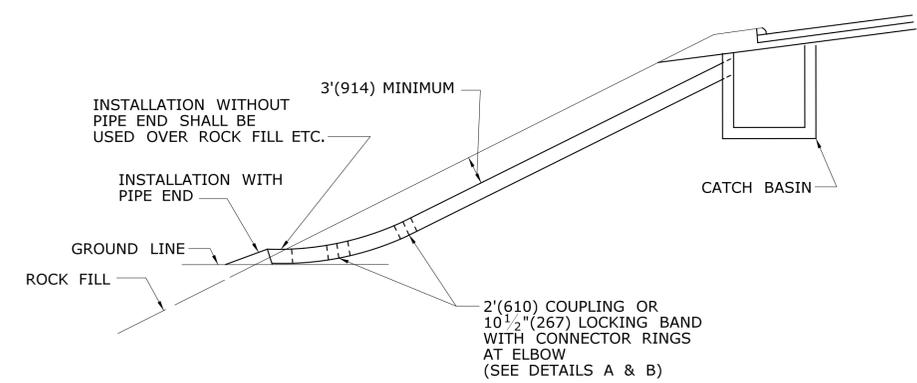
MINIMUM ACCEPTABLE DIMENSIONS FOR DEPTH AND WIDTH =  $D+2'(610)$  (EACH)



**PIPE TRENCH DETAIL  
WHERE GRANULAR FILL IS NOT USED**



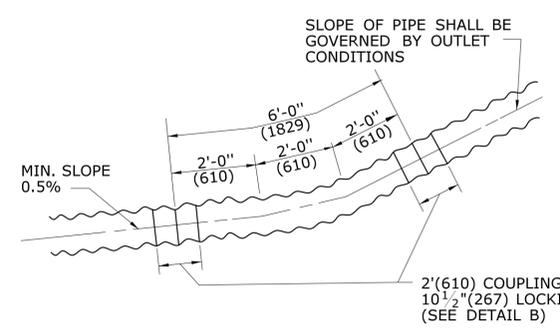
**PIPE TRENCH DETAIL  
WHERE GRANULAR FILL IS USED AS BEDDING**



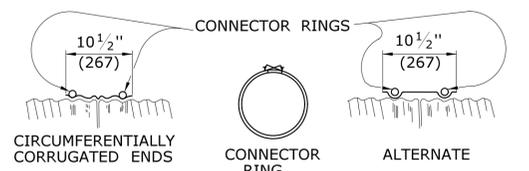
**TYPICAL INSTALLATION OF C.C.M.P. ELBOW IN FILL SLOPE**

**TABLE C  
CONNECTOR RINGS**

PIPE DIAMETER	LENGTH OF RING
12" (300)	52" (1321)
15" (381)	61" (1549)
18" (457)	71" (1803)
21" (533)	80" (2032)
24" (610)	90" (2286)
30" (762)	108" (2743)
36" (915)	128" (3251)
42" (1066)	147" (3734)
48" (1219)	166" (4216)



**DETAIL A  
C.C.M.P. ELBOW AND COUPLING**



**DETAIL B  
ELBOW DIMENSIONS**

RODS: 7/16" (11) DIAMETER ELECTRO-GALVANIZED WITH 6" (152) LENGTH OF 1/2" (13) ROLLED THREADS EACH END, FURNISHED CURVED, TO FIT PIPE. SEE TABLE C

LUGS: DOUBLE TAKE UP, CAST IRON, ELECTRO-GALVANIZED.

NOTE: THE COUPLER FASTENING DEVICE SHALL NOT INTERFERE WITH INSTALLATION OF CONNECTOR RINGS.

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

REV.	DATE	REVISION DESCRIPTION
3	7/13	ADD CONCRETE PIPE CONNECTION DETAIL
2	6/01/10	REVISE TITLE TO SAY TRENCH DETAIL
1	6/01/10	REMOVE GRAVEL, REPLACE W/ GRANULAR

Plotted Date: 6/13/2013

NOT TO SCALE

**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION**

File name: CTDOT\_HIGHWAY\_STD2013.dgn Model: 17-HW-651\_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

**CTDOT  
STANDARD SHEET**

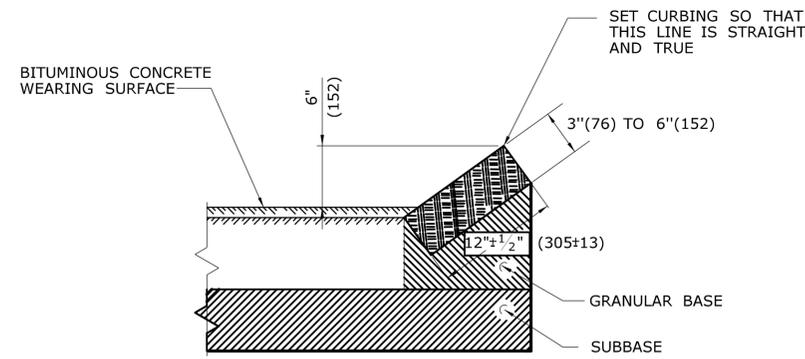
**OFFICE OF ENGINEERING**

STANDARD SHEET TITLE: **C.C.M.P. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL**

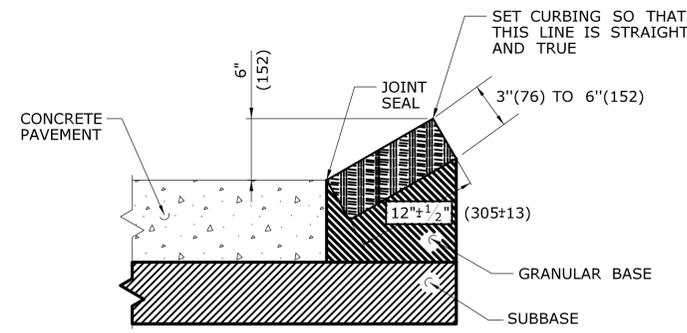
STANDARD SHEET NO.: **HW-651\_01**

**NOTE:**

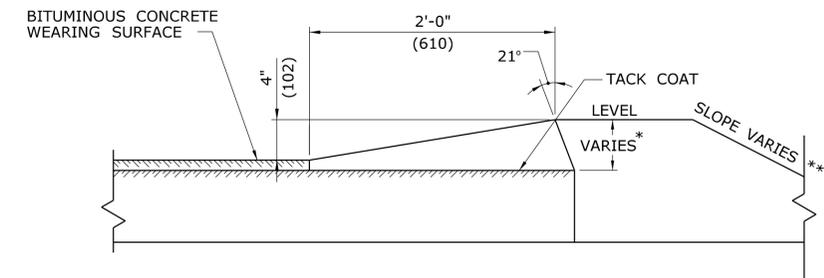
1. ALL CONSTRUCTION DIMENSIONS ARE NOMINAL.



TYPICAL SECTION SHOWING SLOPE CURBING SET ADJACENT TO BITUMINOUS CONCRETE SURFACES



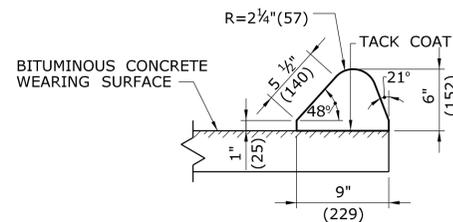
TYPICAL SECTION SHOWING SLOPE CURBING SET ADJACENT TO CONCRETE SURFACES



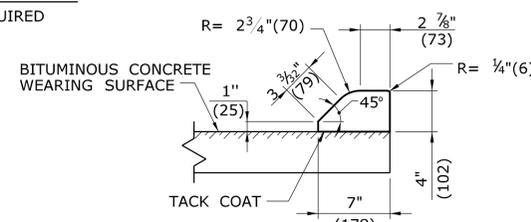
\* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE AND SLOPE OF SHOULDER.  
 \*\* SEE TYPICAL SECTIONS FOR PROJECT. IN FILL AREAS 2'(610) LEVEL BEHIND THE CURB IS REQUIRED.

**GRANITE SLOPE CURBING**

1/2"(13) MORTAR JOINT REQUIRED

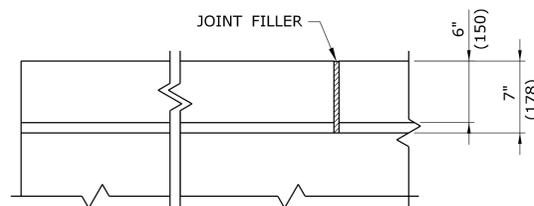


**6" (150) BITUMINOUS CONCRETE LIP CURBING**

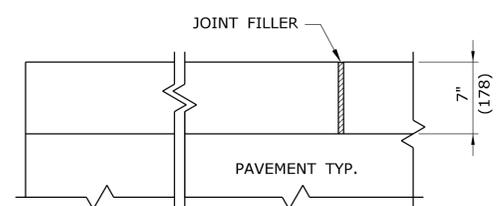


**4" (100) BITUMINOUS CONCRETE PARK CURBING**

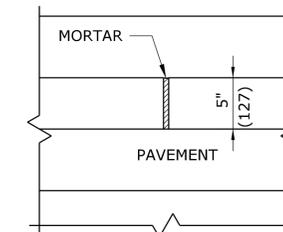
**BITUMINOUS CONCRETE BERM**



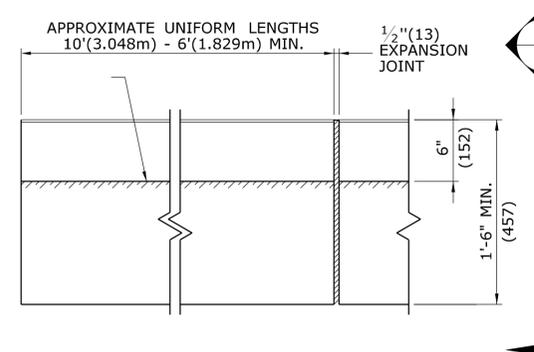
**PLAN**



**PLAN**

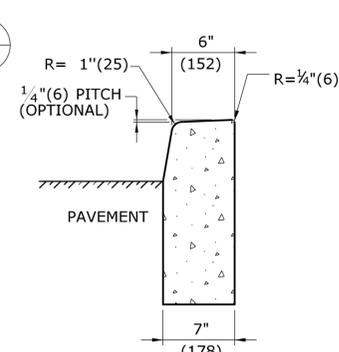


**PLAN**

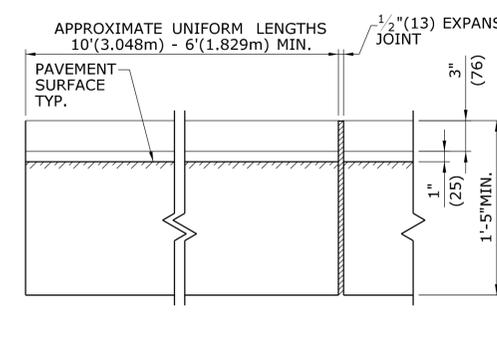


**ELEVATION**

**6" (150) CONCRETE CURBING**

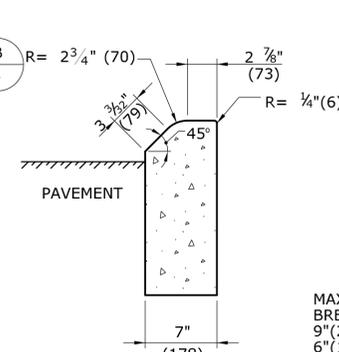


**SECTION A**

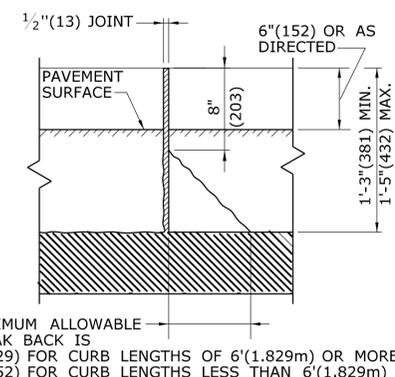


**ELEVATION**

**4" (100) CONCRETE PARK CURBING**

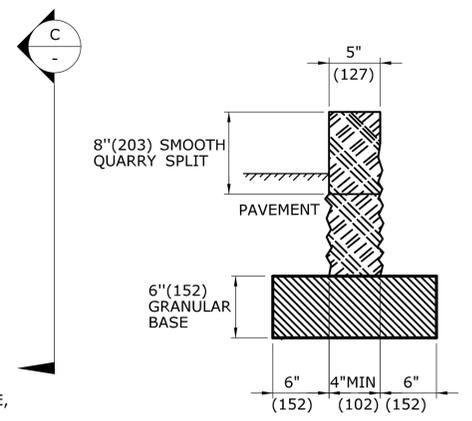


**SECTION B**



**ELEVATION**

**STONE CURBING**



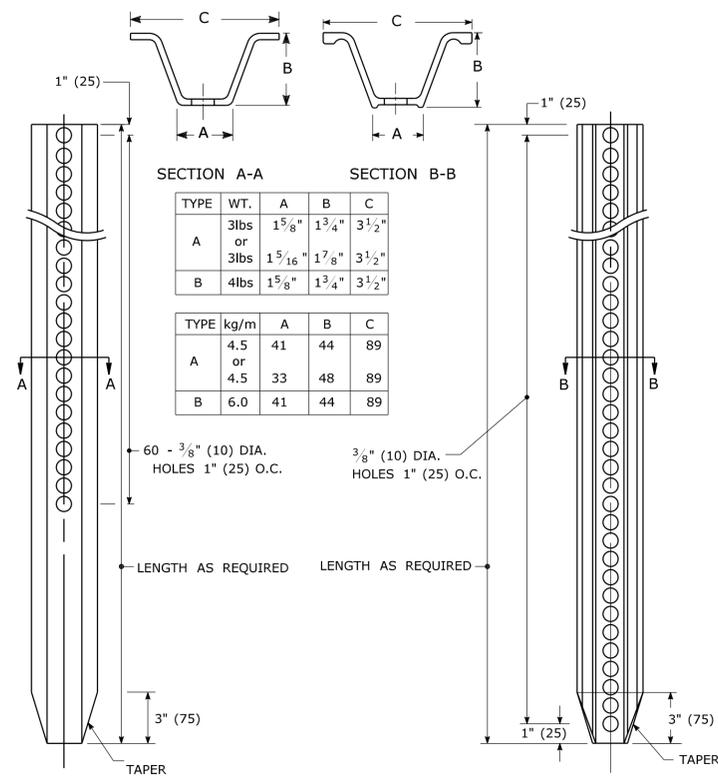
**SECTION C**

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

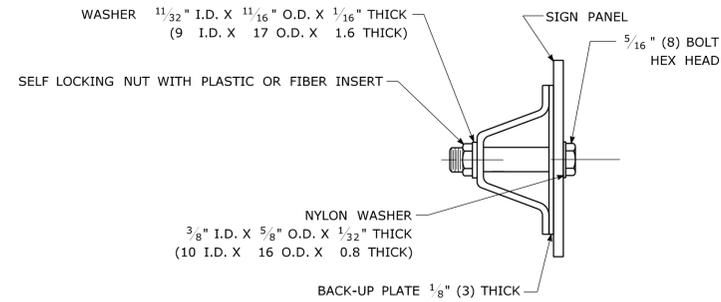
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 6/23/2011	NOT TO SCALE	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: _____ NAME/DATE/TIME: _____ APPROVED BY: _____ NAME/DATE/TIME: _____	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: <b>CURBING</b>	STANDARD SHEET NO.: <b>HW-811_01</b>
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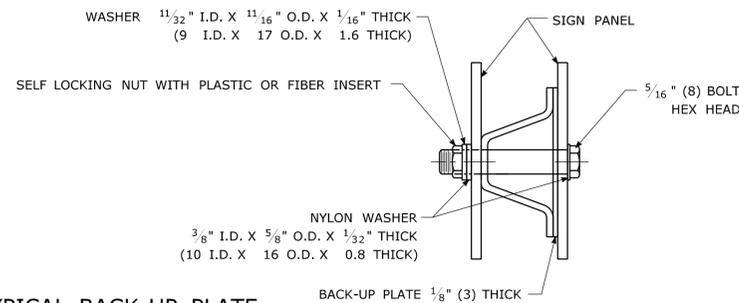
**TYPICAL METAL SIGN POSTS**



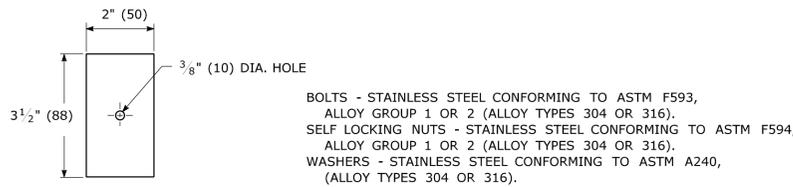
**TYPICAL SIGN PANEL ATTACHMENT**



**TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT**

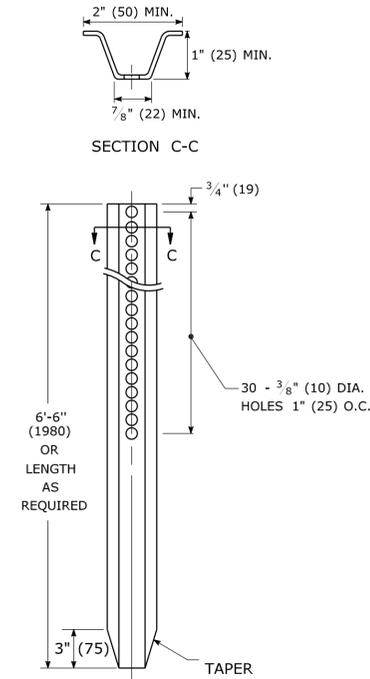


**TYPICAL BACK-UP PLATE**



**METAL DELINEATOR POST**

WT./FT. = 1.12 LBS. MIN.  
 (MASS/m = 1.67 kg/m MIN.)

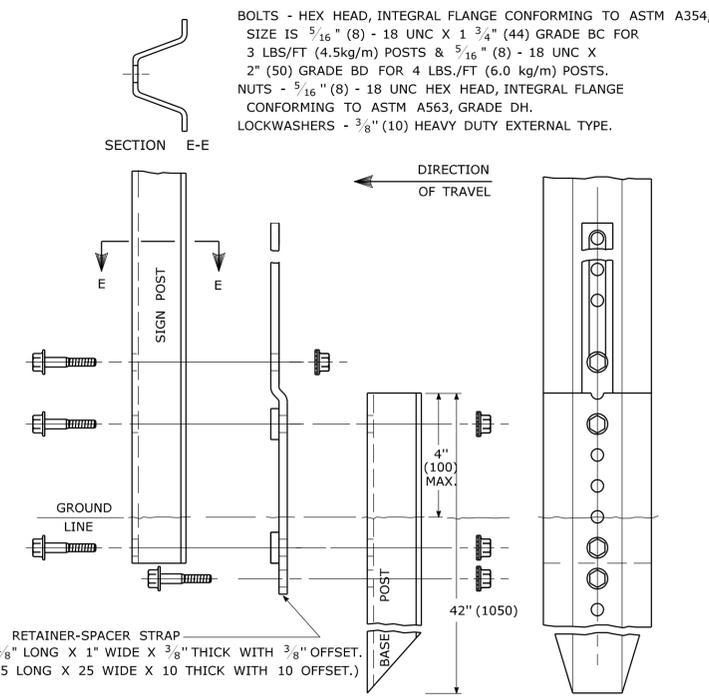


**GENERAL NOTES:**

- STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36/A36(m) STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91lbs. (45 kg.) OR GREATER PER LINEAR YARD (METER).
- AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123/A123(m).
- WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
- ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153/A153(m).
- ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET ASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph (97 km/h) WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- TYPE A POSTS - 3 lbs/ft (4.5 kg/m) TYPE B POSTS - 4 lbs/ft (6 kg/m).

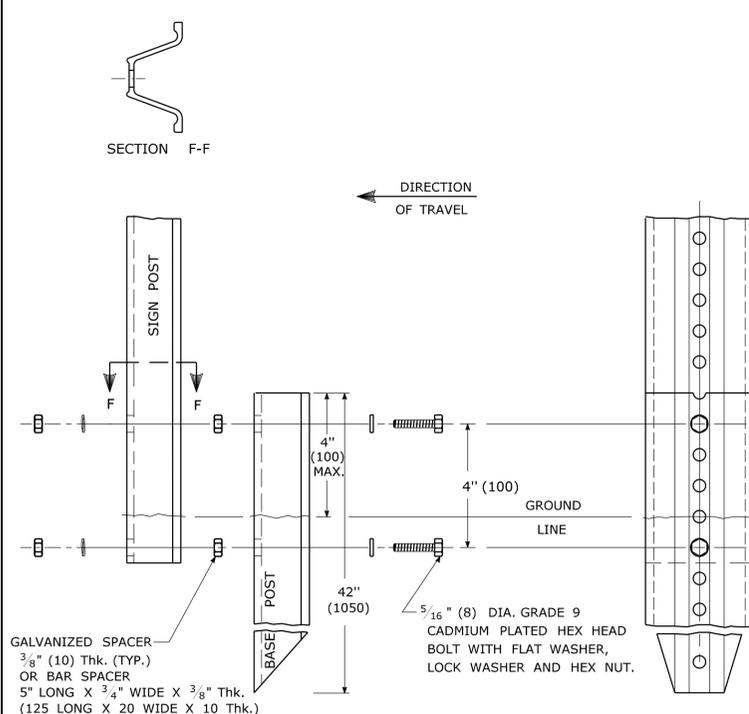
**BREAKAWAY TYPE I INSTALLATION**

FOR 3 & 4 LB. POSTS  
 (FOR 4.5 & 6.0 kg/m POSTS)

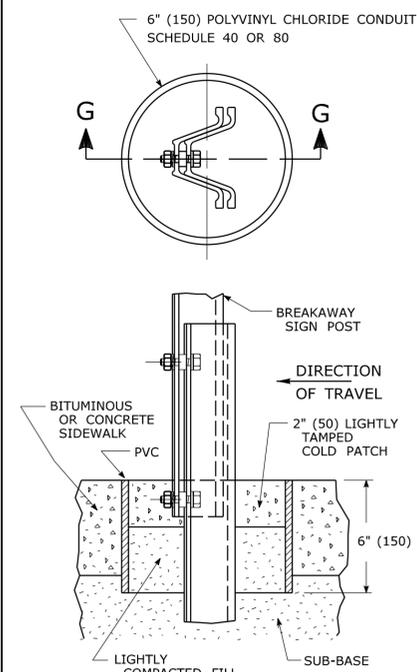


**BREAKAWAY TYPE II INSTALLATION**

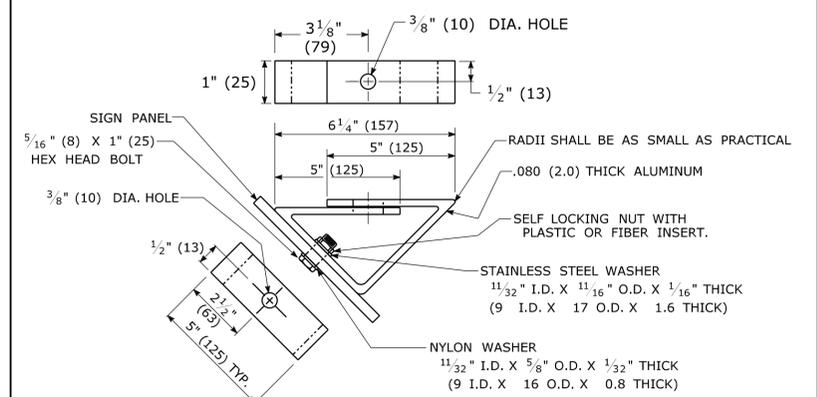
FOR 3 & 4 LB. POSTS  
 (FOR 4.5 & 6.0 kg/m POSTS)



**TYPICAL SLEEVE FOR PAVED AREAS**



**45° SUBMOUNTING BRACKET**



REV.	DATE	MINOR REVISIONS	REVISION DESCRIPTION
1	2-2011	MINOR REVISIONS	

Plotted Date: 3/22/2011

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.

NOT TO SCALE

DIMENSIONS ARE IN ENGLISH ("") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: CTDOT\_TRAFFIC\_STD.dgn Model: TR-1208\_02

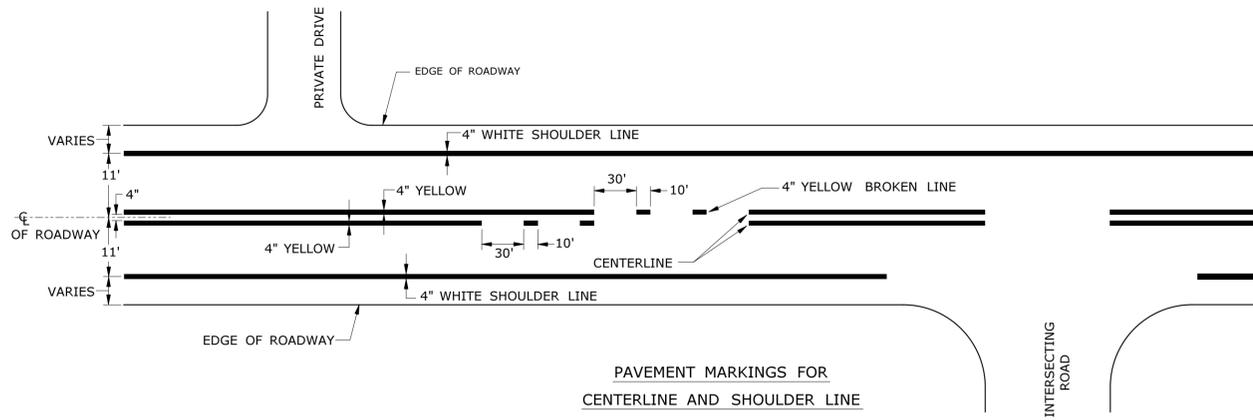
SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

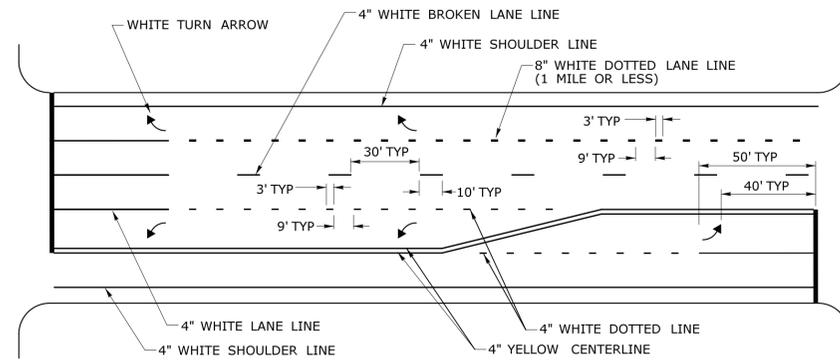
**CTDOT**  
**STANDARD SHEET**  
**OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:  
**METAL SIGN POSTS AND SIGN MOUNTING DETAILS**

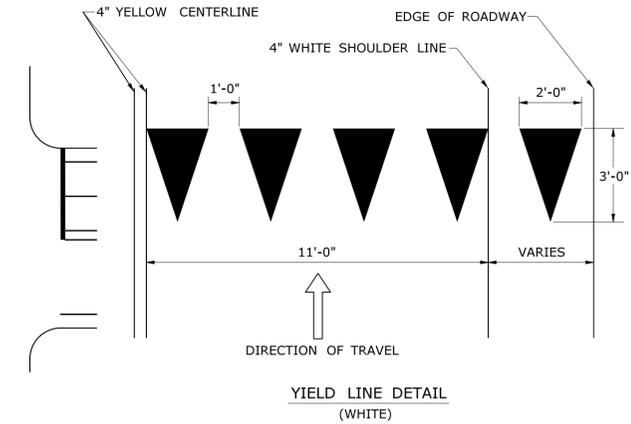
STANDARD SHEET NO.:  
**TR-1208\_02**



PAVEMENT MARKINGS FOR CENTERLINE AND SHOULDER LINE



PAVEMENT MARKINGS FOR TURNING LANES



YIELD LINE DETAIL (WHITE)

NOTES:

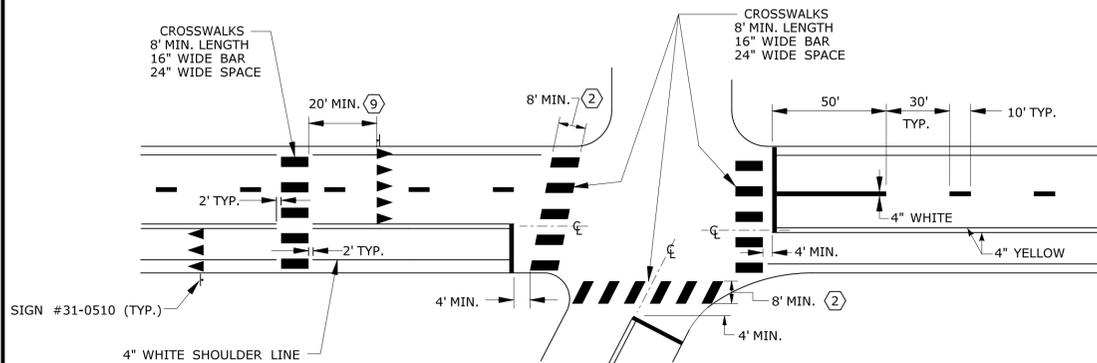
- STOP BARS AND YIELD LINES
- STOP BARS AND YIELD LINES SHALL BE WHITE.
  - STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
  - STOP BARS TO BE MARKED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
  - IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
  - THE STOP BAR SHOULD BE PLACED IN LINE WITH THE STOP SIGN. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
  - FOR STOP BARS AT RAMP SEE DETAILS "O" & "P" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210.02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
  - YIELD LINES SHOULD BE INSTALLED FROM THE CENTERLINE TO THE CURB LINE/EDGE OF ROAD AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
  - FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
  - AT MID-BLOCK CROSSWALKS ONLY, YIELD LINES SHOULD BE INSTALLED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE, OR AS DIRECTED BY THE ENGINEER.
  - THE YIELD LINE SHOULD BE PLACED IN LINE WITH A YIELD SIGN. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.

CROSSWALKS

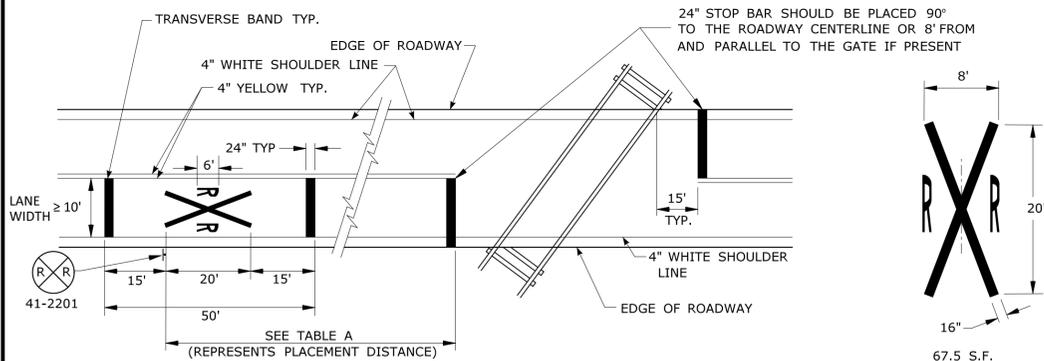
- CROSSWALK MARKINGS SHALL BE WHITE.
- AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO  $\epsilon$  AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW. BARS SHOULD BE NO CLOSER THAN 1' FROM CURB LINE/EDGE OF ROAD.
- ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
- DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
- 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

RAILROAD GRADE CROSSINGS

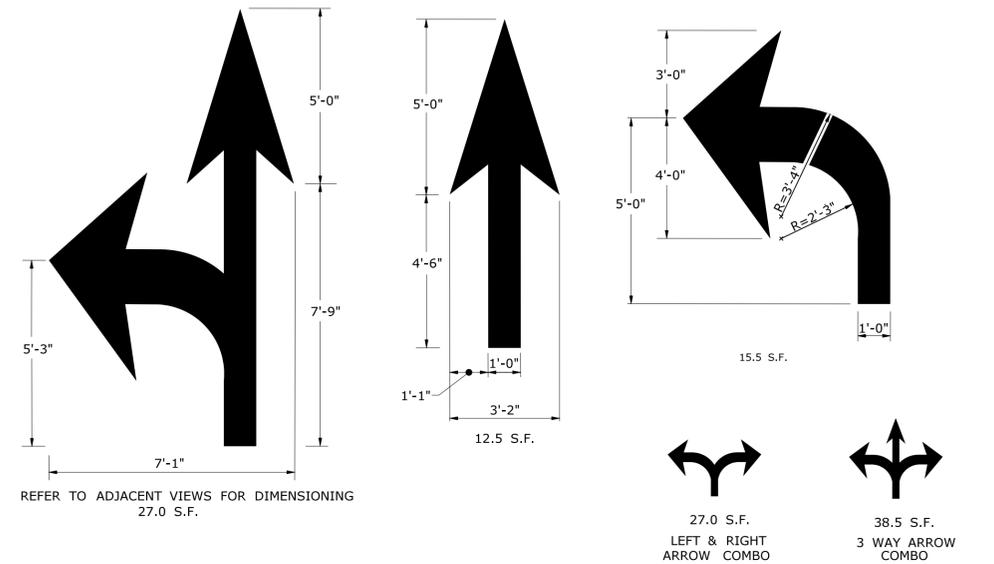
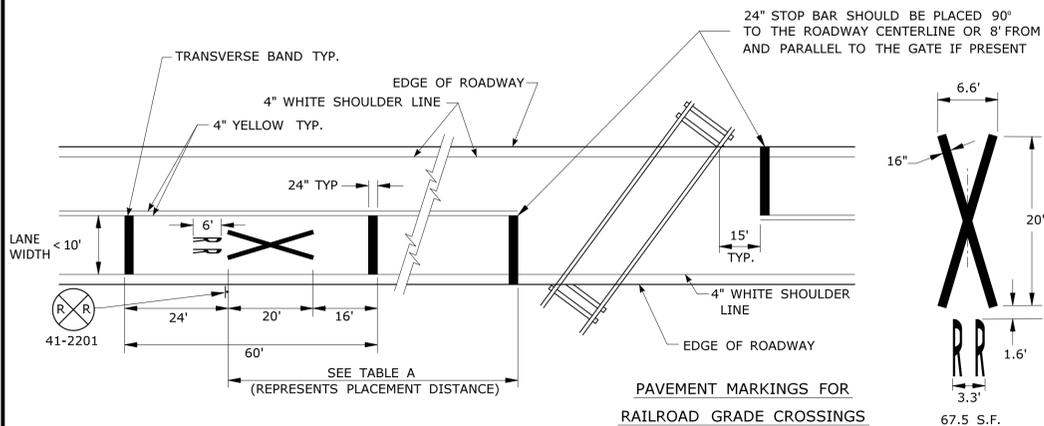
- RAILROAD MARKINGS SHALL BE WHITE.
- ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.



PAVEMENT MARKINGS FOR STOP BARS, YIELD LINES, AND CROSSWALKS

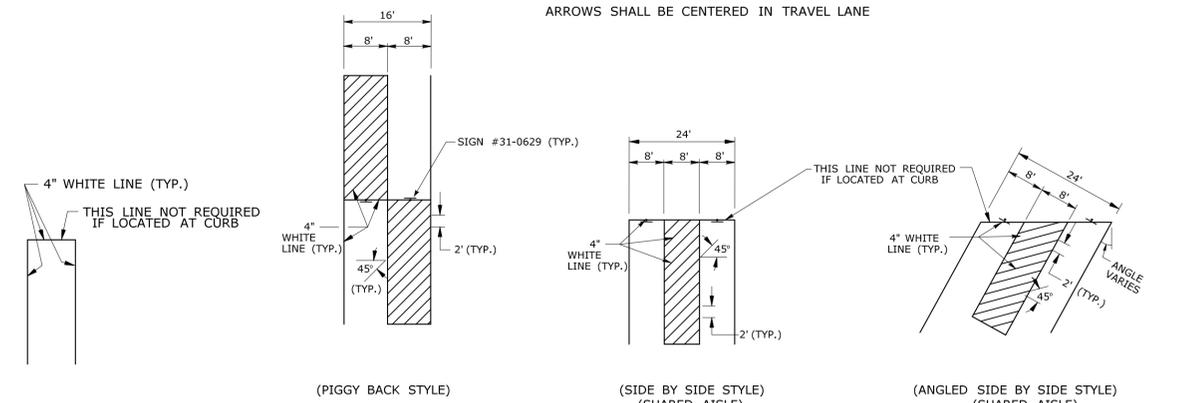


PAVEMENT MARKINGS FOR RAILROAD GRADE CROSSINGS



PAVEMENT ARROW DETAILS (WHITE)

ARROWS SHALL BE CENTERED IN TRAVEL LANE



STANDARD PARKING STALL

PARKING STALLS FOR HANDICAPPED

NOTES:

- PAVEMENT MARKING
- FOR PAVEMENT MARKINGS ON A CLIMBING LANE SEE DETAIL "L" ON TRAFFIC STANDARD SHEET TR-1210.02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
  - AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
  - FOR PAVEMENT MARKING LINES, STOP BARS AND ARROWS AT RAMP SEE DETAILS "O" & "P" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210.02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
  - RIGHT TURN PAVEMENT MARKINGS ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.
  - SHARED AISLES MAY NOT BE USED WHERE CONNECTICUT BUILDING CODE GOVERNS.
  - LANE WIDTHS TO BE 11' UNLESS OTHERWISE NOTED.

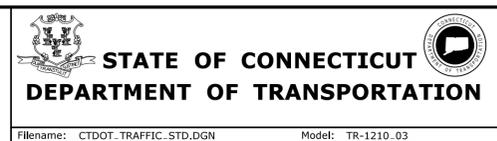
REV.	DATE	REVISION DESCRIPTION
3	10-2014	ADDED YIELD LINE DETAIL AND NOTES. REVISED NOTES FOR STOP BARS AND CROSSWALKS. REVISED MARKINGS FOR STOP BARS AND CROSSWALKS. REVISED STANDARD LANE WIDTH. REVISED MARKINGS FOR GRADE CROSSINGS AND TABLE A.
2	12-2013	REMOVED PAVEMENT MARKING ARROWS ON RAMP NOTES AND ADDED NEW NOTE #3 REFERRING TO SHEET TR-1210_02.
1	2-2011	ADDED PAVEMENT MARKINGS FOR TURNING LANES.

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: 10/9/2014

DIMENSIONS ARE IN ENGLISH ("")

NOT TO SCALE



SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE: SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS

STANDARD SHEET NO.: TR-1210\_03

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																															
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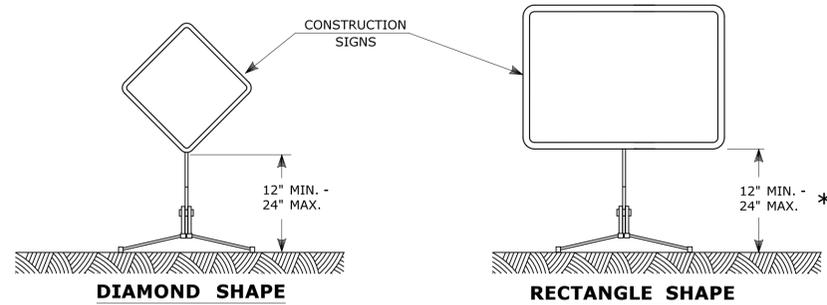
- R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
- POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
- POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
- ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208.02.
- FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220.02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
- FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
- ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
- MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.

MATERIALS:

SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #s. 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

COLORS:

BACKGROUND - FLUORESCENT ORANGE - EXCEPT AS NOTED.  
LEGEND - BLACK - EXCEPT AS NOTED.  
ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING.  
ALL OTHER SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY \*.  
\* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

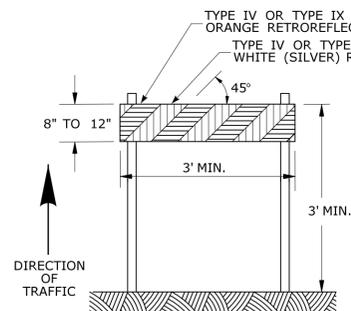


**PORTABLE CONSTRUCTION SIGNS**

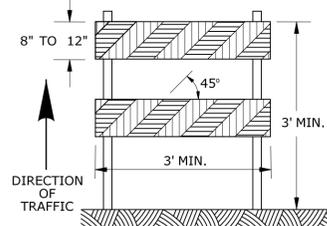
NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

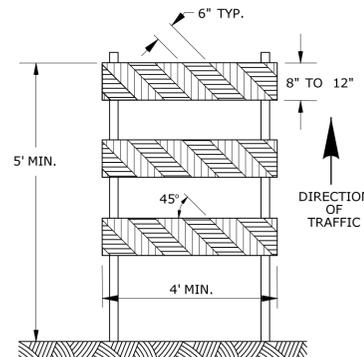
\* FOR E5-1 (EXIT SIGNS) USE MIN 48".



**TYPE I BARRICADE**



**TYPE II BARRICADE**

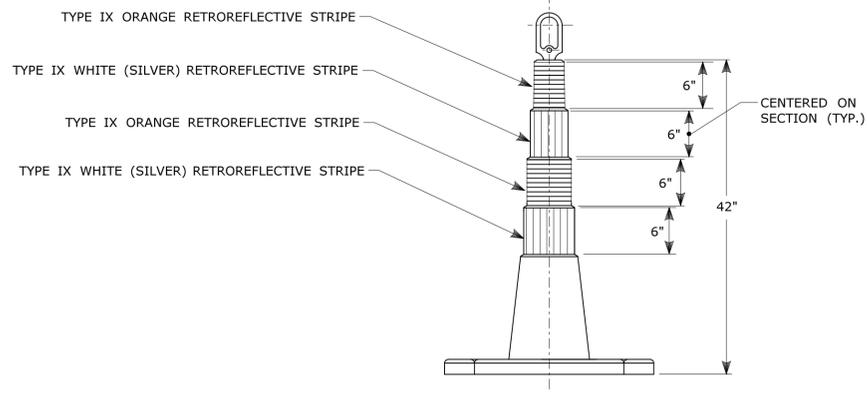


**TYPE III BARRICADE**

**CONSTRUCTION BARRICADES**

NOTES:

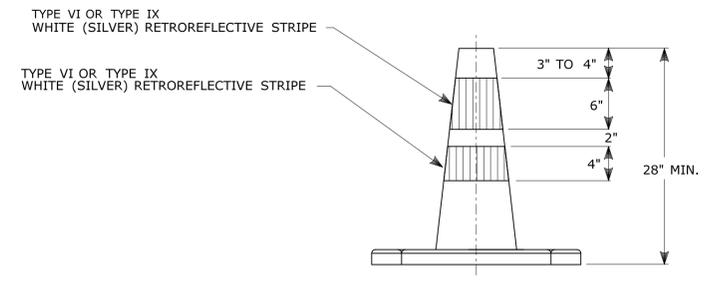
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



**42" TRAFFIC CONE**

NOTES:

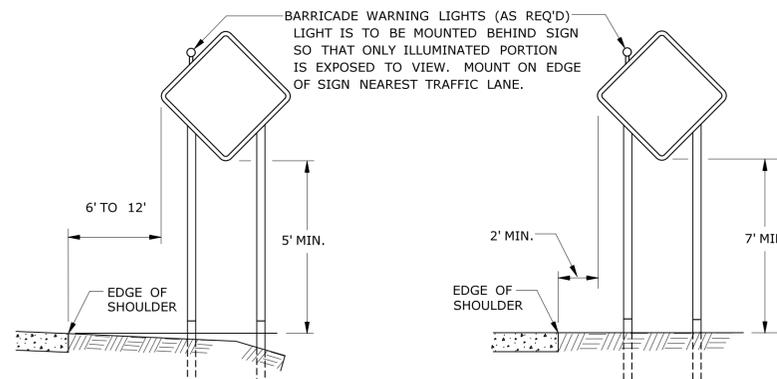
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



**TRAFFIC CONE**

NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



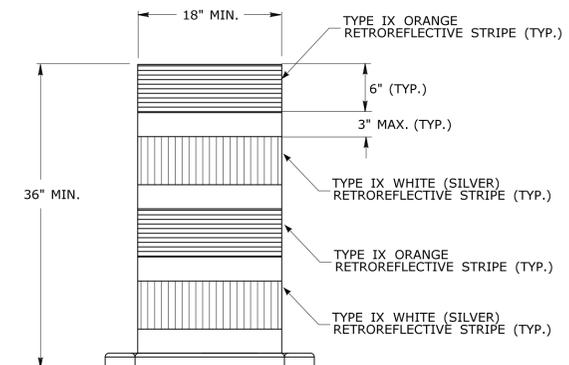
**RURAL AREA**

**URBAN AREA**

**PLACEMENT OF CONSTRUCTION SIGNS  
TYPICAL LONG TERM INSTALLATION**

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.
- SEE TYPICAL SHEETS:  
 "TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"  
 "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"



**TRAFFIC DRUM  
FRONT VIEW**

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

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.				SUBMITTED BY: _____ NAME/DATE/TIME: _____	<b>CTDOT STANDARD SHEET</b>	STANDARD SHEET TITLE: <b>CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES</b>	STANDARD SHEET NO.: <b>TR-1220_02</b>
2 8-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.	1 2-2011 MINOR REVISIONS.	NOT TO SCALE	APPROVED BY: _____ NAME/DATE/TIME: _____	<b>OFFICE OF ENGINEERING</b>			
REV. DATE REVISION DESCRIPTION	Plotted Date: 8/14/2015	File name: CTDOT_TRAFFIC_STD.DGN Model: TR-1220_02					