HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

60% DESIGN / REGULATORY SUBMISSION SET
FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

FEB 2011
REVISED THROUGH: APRIL 18, 2012

- **FLOOD CONTROL IMPLEMENTATION AGENCY**

Philip Ashton - CHAIRMAN
Dwight L. Needels
Walter Hylwa
Frank Lewandowski
George McGoldrick
Paul Miller
David White

- **CITY REPRESENTATIVES**

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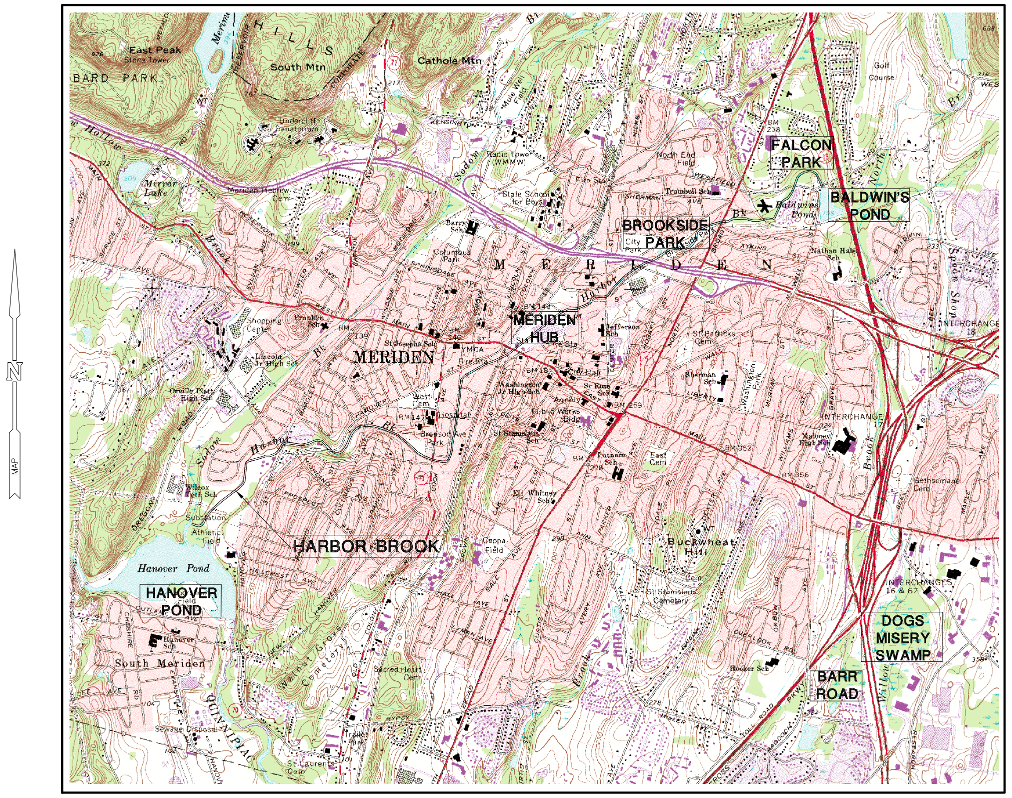
MAYOR

Matthew C. Dominello, Sr.
DEPUTY MAYOR

Lawrence J. Kendzior
CITY MANAGER

Mark Zebora
DIRECTOR OF PARKS, RECREATION AND PUBLIC BUILDINGS

Robert J. Bass, P.E.
DIRECTOR OF PUBLIC WORKS



PROJECT SITE VICINITY MAP:

SCALE: 1"=2,000'

0 1,000' 2,000'

LIST OF DRAWINGS:

SHEET NO.	SHEET IN SET	DRAWING
	01	TITLE
GN-1	02	GENERAL NOTES
RA-1 to RA-17	03-19	REGULATED ACTIVITIES
FP-1 to FP-2	20-21	1% ANNUAL CHANCE FLOODPLAIN MAPPING
PROF-1	22	PROFILE - HARBOR BROOK
PH-1 to PH-2	23-24	PROPOSED CONSTRUCTION PHASING
IN-EX-1 to IN-EX-2	25-26	INDEX - EXISTING CONDITIONS
EX-1 to EX-9	27-35	SITE PLAN - EXISTING CONDITIONS
IN-PR-1 to IN-PR-2	36-37	INDEX - PROPOSED CONDITIONS AND S&E CONTROL
PR-1 to PR-17	38-54	SITE PLAN - PROPOSED CONDITIONS AND S&E CONTROL
MI-1	55	MITIGATION PLAN - DOG MISERY SWAMP AT BARR ROAD
D-1	56	FLOODPLAIN WETLAND PLANTING PLAN
D-2 to D-3	57-58	FLOODPLAIN WETLAND AREAS - PLANTING SCHEDULES
D-4	59	TYPICAL CROSS SECTIONS
D-5	60	INSTREAM CHANNEL IMPROVEMENTS DETAILS
D-6	61	SEDIMENT AND EROSION CONTROL DETAILS
D-7	62	FALCON PARK CROSS SECTION AND LOW FLOW CHANNEL
H-1	63	FISHERY AND IN-STREAM FEATURE RESTORATION PLAN
H-2	64	FISHERY AND IN-STREAM FEATURE RESTORATION PLAN
H-3	65	TURTLE HABITAT MANAGEMENT PLAN

MMI# 1261-14-20

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Drawing: H:\1261-14\DWG\CURRENT\HB-TITLE.DWG Layout Tab:GN-1
Plotted by: BECKYM On this date: Wed, 2012 April 18 - 11:10am

GENERAL NOTES

1. ALL TOPOGRAPHIC INFORMATION IS IN THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929. ALL HORIZONTAL DATA IS IN THE CONNECTICUT COORDINATE SYSTEM (NAD 27).
2. THE AERIAL TOPOGRAPHIC BASE WAS PREPARED BY GOLDEN AERIAL SURVEY'S FLIGHT IN 1997 PROVIDED BY THE CITY OF MERIDEN, BASED UPON 1997 DATA PREPARED BY SEWALL ASSOCIATES. PROPERTY LINE INFORMATION WAS TAKEN FROM CITY OF MERIDEN ASSESSOR'S DATA AND SHOULD BE CONSIDERED APPROXIMATE. PROPERTY OWNERSHIP DATA FROM CITY OF MERIDEN ASSESSOR'S RECORDS CURRENT THROUGH JANUARY 2011.
3. IN CHANNEL CROSS SECTION SURVEYS WERE PREPARED BY MILONE & MACBROOM, INC. & THE DESIGN DEVELOPMENT GROUP 1997–98.
4. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1–800–922–4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT – 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
7. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL, AND BE SEEDED WITH GRASS OR SODDED, AS SHOWN ON THE PLANS.
8. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
9. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE CITY OF MERIDEN REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816 AND ADDENDUMS
10. ANY MAINTENANCE AND REFUELING OF EQUIPMENT AND VEHICLES SHALL BE PERFORMED AT LEAST 50 FEET FROM WETLANDS OR WATERCOURSES. OIL, GASOLINE, AND CHEMICALS NEEDED AT THE SITE SHALL BE STORED IN A SECONDARY CONTAINER AT LEAST 50 FEET FROM WETLANDS OR WATERCOURSES TO PREVENT CONTAMINATION FROM POSSIBLE LEAKS.
11. THE SITE WILL BE SUBJECT TO REGULAR INSPECTION BY THE ENGINEER FOR MONITORING OF EROSION AND SEDIMENTATION CONTROLS.
12. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK.
13. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON–WORK HOURS.
14. CONTRACTOR TO MAINTAIN ACCESS TO EXISTING DRIVEWAYS EXCEPT WHERE NOTED.
15. CONTRACTOR IS TO PROTECT VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
16. THE SEDIMENT & EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE DESIGNATED CITY REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS.
17. THE SITE SHALL BE KEPT CLEAN OF LOOSE DEBRIS, LITTER & BUILDING MATERIALS SUCH THAT NONE ENTER WATERS OR WETLANDS.
18. A COPY OF ALL PLANS & REVISIONS AND THE SEDIMENT AND EROSION CONTROL PLANS SHALL BE MAINTAINED ON–SITE DURING ALL CONSTRUCTION.
19. THE SITE WAS REVIEWED FOR THE PRESENCE OF INLAND WETLANDS BY MILONE & MACBROOM, INC. THE FIELD INVESTIGATION DETERMINED THAT THERE ARE INLAND WETLANDS OR WATERCOURSES ON SITE. WETLAND DELINEATION BY MILONE & MACBROOM, INC. WAS COMPLETED IN MAY 2008 AND IN NOVEMBER 2010 AT FALCON PARK.
20. CAST IRON FLAP GATES OR CHECK VALVES ARE TO BE INSTALLED ON SELECTED STORM DRAIN OUTFALLS TO HARBOR BROOK.
21. THESE PLANS HEREIN SHALL BE SUPPLEMENTED BY INSTREAM HABITAT FEATURES AND LOW FLOW CHANNEL DURING FINAL DESIGN.
22. ADJUST FINAL DESIGN CHANNEL AND BRIDGE CENTERLINES BASED UPON LAND ACQUISITIONS AND EASEMENTS.
23. MOST PUBLIC ROAD AND PRIVATE DRIVEWAY BRIDGES HAVE UTILITIES IN OR ATTACHED TO THE SUPERSTRUCTURE, TO BE ADDRESSED DURING FINAL DESIGN.
24. ALL STORM DRAIN PIPE SHALL BE SMOOTH LINED REINFORCED CONCRETE PIPE (RCP) OR HIGH DENSITY POLYEHTYLENE PIPE (HDPE) UNLESS OTHERWISE INDICATED.
25. ALL GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR35 UNLESS OTHERWISE INDICATED.
26. PERVIOUS CONSTRUCTION MATERIALS SHALL BE USED WHERE SITE CONDITIONS ALLOW. △1

CONSTRUCTION SEQUENCE

PROJECT PLANS IN THIS SUBMISSION SET ARE PRELIMINARY AND REPRESENT A MASTER PLAN FOR IMPROVEMENTS. AS FUNDING BECOMES AVAILABLE, THE CITY WILL DEVELOP DESIGN PLANS FOR SPECIFIC PROJECT ELEMENTS. DETAILED CONSTRUCTION PLANS AND SEQUENCING WILL BE DEVELOPED AT THAT TIME. THE FOLLOWING IS A GENERAL SEQUENCE FOR CONSTRUCTION ACTIVITIES:

1. PRIOR TO COMMENCEMENT OF WORK, A PRECONSTRUCTION MEETING SHALL BE HELD WITH CITY STAFF AND REPRESENTATIVES OF THE CONTRACTOR AND OWNER. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE WORK AREA. DEP AND ACOE WILL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR TO STAKE OUT LIMITS OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
3. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS AND STABILIZED CONSTRUCTION ENTRANCES.
4. CLEAR AND GRUB WORK AREA AND STOCKPILE TOPSOIL. PLACE SEDIMENT FILTER FENCE AND HAYBALES AROUND STOCKPILES.
5. CONTRACTOR TO INSTALL TEMPORARY DIVERSION BERMS AND SEDIMENT BASINS PER THE SEDIMENT AND EROSION CONTROL PLAN.
6. INITIATE MASS EARTHWORK OPERATIONS AFTER ALL BASINS, BERMS, SWALES, SILT FENCE & HAYBALES ARE INSTALLED.
7. TEMPORARY SEDIMENT BASINS AND DIVERSION BERMS AND SWALES ARE TO BE CONSTRUCTED PRIOR TO EACH PHASE OF GRADING AND MODIFIED AS NECESSARY TO FUNCTION.
8. SLOPES ARE TO BE ESTABLISHED AS SOON AS PRACTICAL BEFORE UTILITY INSTALLATION. STABILIZE ALL SLOPES IMMEDIATELY AFTER THEIR ESTABLISHMENT.
9. TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. CLEAN THE SEDIMENT BASINS WITH SEDIMENT ACCUMULATION EXCEEDS ONE HALF THE WET STORAGE CAPACITY OF THE BASIN OR WHEN THE DEPTH OF AVAILABLE POOL IS REDUCED TO 18 INCHES, WHICHEVER IS ACHIEVED FIRST.
10. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE CITY'S DESIGNATED REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS.
11. INSPECTION OF EACH WORK AREA FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
12. ALL DEWATERING WASTE WATERS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISCOLORATION OF THE RECEIVING WATERS AND COMPLY WITH THE REQUIREMENTS OF CT DEP'S GENERAL PERMIT FOR DISCHARGE OF CONSTRUCTION STORMWATER AND DEWATERING WASTEWATER.

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REVISIONS
△1 03/02/2012
△2 04/18/2012

GENERAL NOTES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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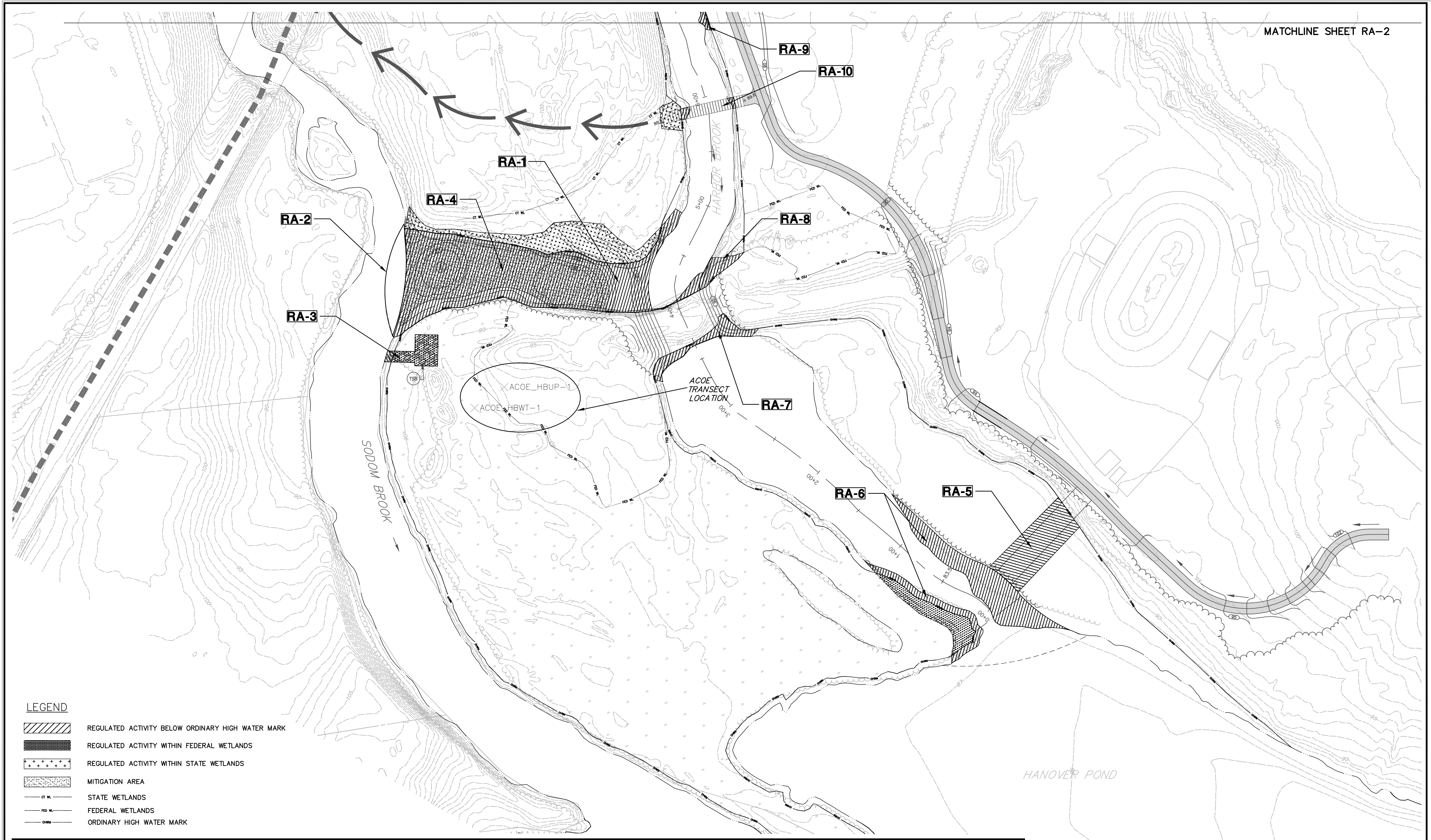
NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 02 OF 65

GN-1
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-1TO9.DWG Layout Tab:RA-1
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:18pm


MATCHLINE SHEET RA-2
RA-9
RA-10
RA-1
RA-4
RA-2
RA-8
RA-3
HARBOR BROOK
ACOE_HBUP-1
ACOE_HBWT-1
TSB
ACOE TRANSECT LOCATION
RA-7
SODOM BROOK
RA-6
RA-5
HANOVER POND

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
— CT WL —	STATE WETLANDS
— FED WL —	FEDERAL WETLANDS
— OHWM —	ORDINARY HIGH WATER MARK

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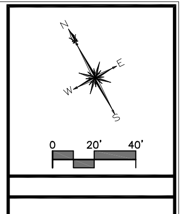

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DESIGNED	DRAWN	CHECKED

SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

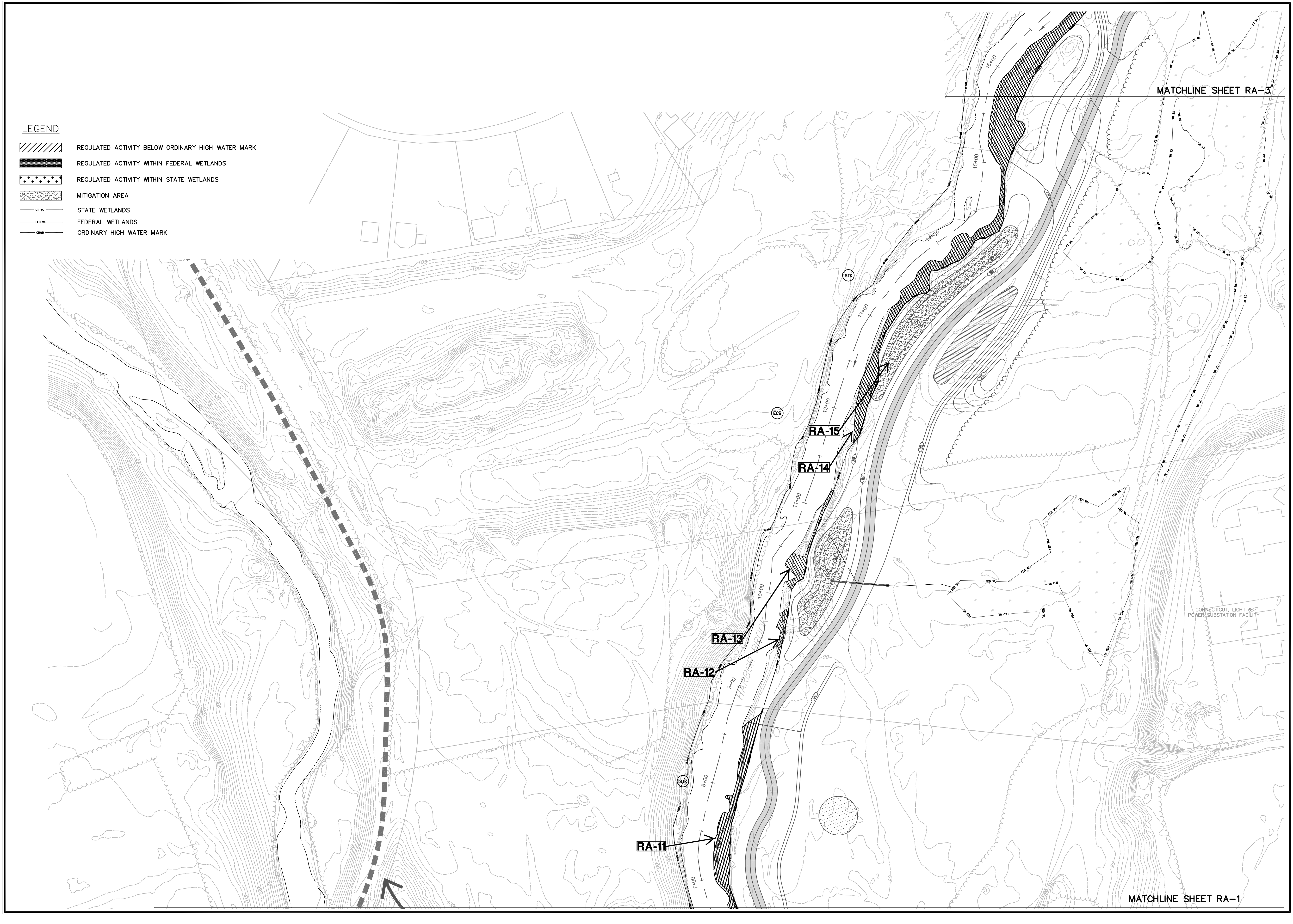
SHEET NO. 03 OF 65

RA-1
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-1TO9.DWG Layout Tab:RA-2
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:18pm

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK


MATCHLINE SHEET RA-3
16+00
15+00
14+00
STK
13+00
12+00
ECB
RA-15
RA-14
11+00
10+00
CONNECTICUT, LIGHT & POWER SUBSTATION FACILITY
RA-13
RA-12
HARBOR BROOK
9+00
STK
8+00
RA-11
7+00
MATCHLINE SHEET RA-1
105
100
95
90

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40'

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NEB	BAM	JGM

SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 04 OF 65

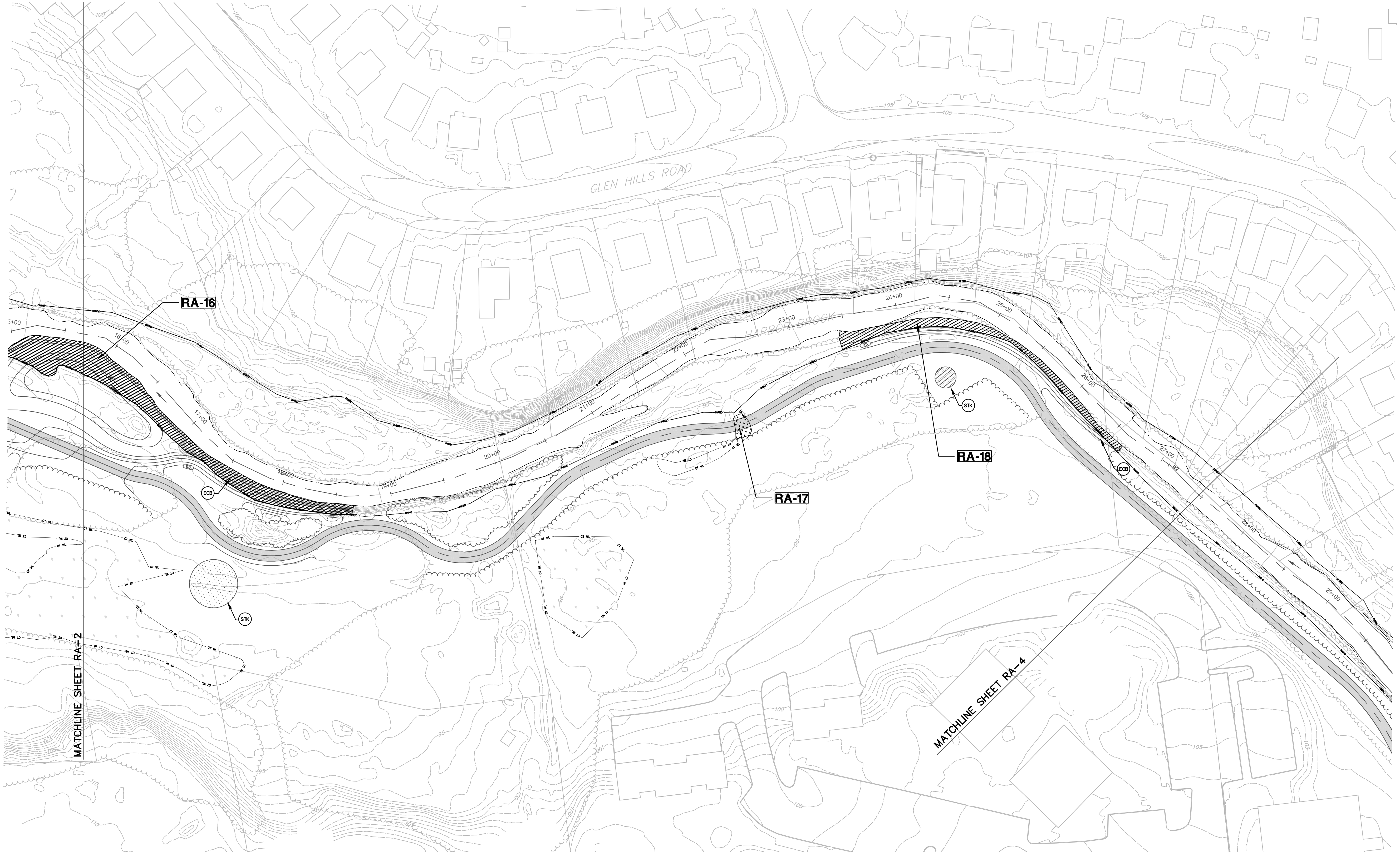
SHEET NO. **RA-2**

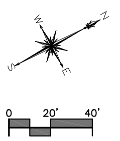
Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-1TO9.DWG Layout Tab:RA-3
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:18pm

[redacted]

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
— CT WL —	STATE WETLANDS
— FED WL —	FEDERAL WETLANDS
— OHWM —	ORDINARY HIGH WATER MARK


GLEN HILLS ROAD
HARBOR BROOK
RA-16
RA-17
RA-18
STK
STK
ECB
ECB
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00
28+00
29+00
95
100
105
110
CT WL
FED WL
OHWM
MATCHLINE SHEET RA-2
MATCHLINE SHEET RA-4



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SHEET NO. 05 OF 65

RA-3
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-1TO9.DWG Layout Tab:RA-4
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:18pm

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK

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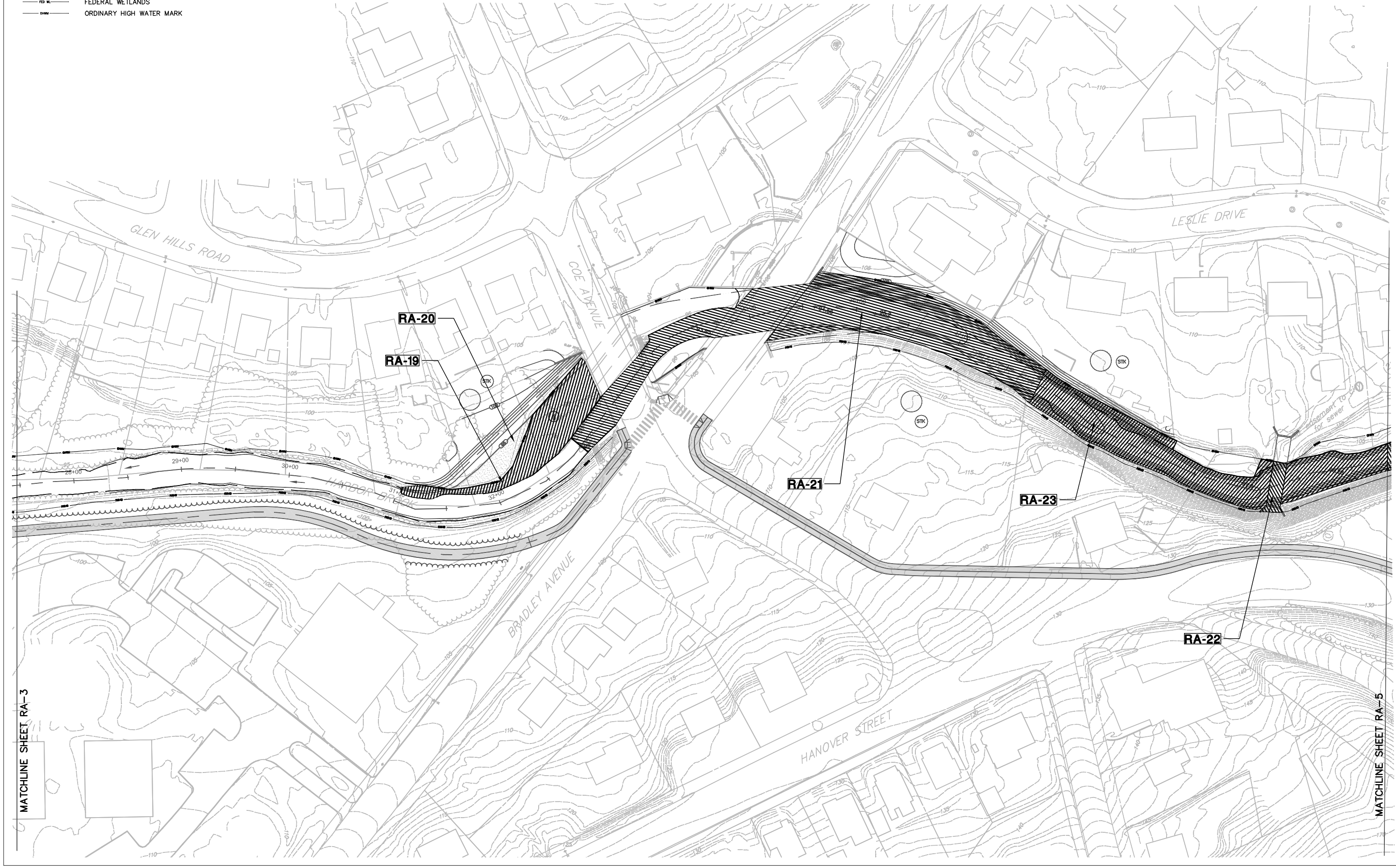
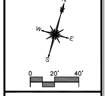

GLEN HILLS ROAD
COE AVENUE
LESLIE DRIVE
HARBOR BROOK
BRADLEY AVENUE
HANOVER STREET
RA-19
RA-20
RA-21
RA-22
RA-23
STK
28+00
29+00
30+00
31+00
32+00
easement to city for sewer
100
105
110
115
120
125
130
135
140
145
MATCHLINE SHEET RA-3
MATCHLINE SHEET RA-5



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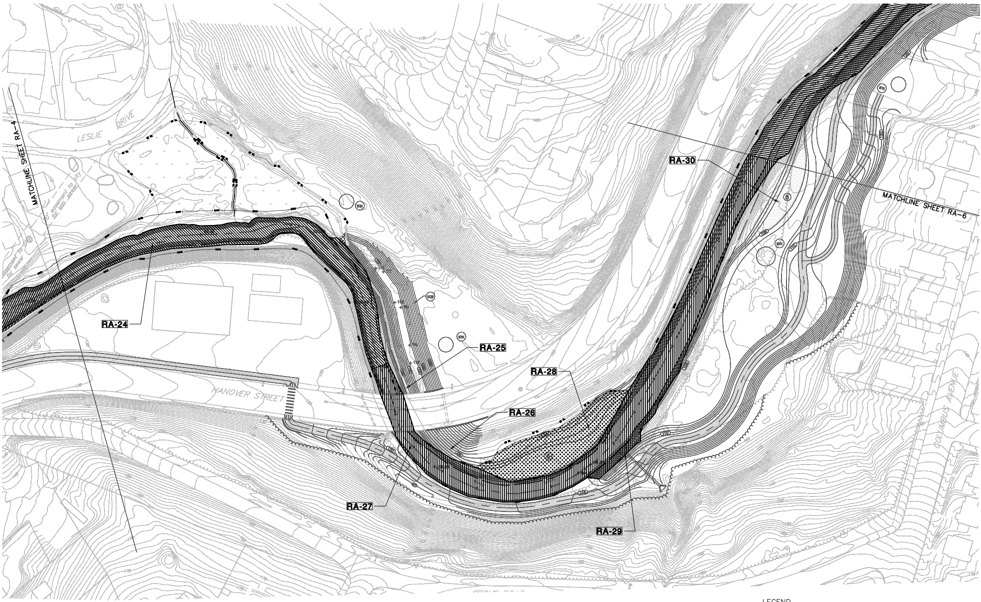
SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 06 OF 65

SHEET NO. RA-4


MATCHLINE SHEET RA-4
LESLIE DRIVE
easement to city for sewer
RA-24
RA-25
RA-26
RA-27
RA-28
RA-29
RA-30
HANOVER STREET
COLUMBUS AVENUE
MATCHLINE SHEET RA-6

[redacted]

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▤	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
— CT WL —	STATE WETLANDS
— FED WL —	FEDERAL WETLANDS
— OHWM —	ORDINARY HIGH WATER MARK

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SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 07 OF 65

RA-5
SHEET NO.

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK

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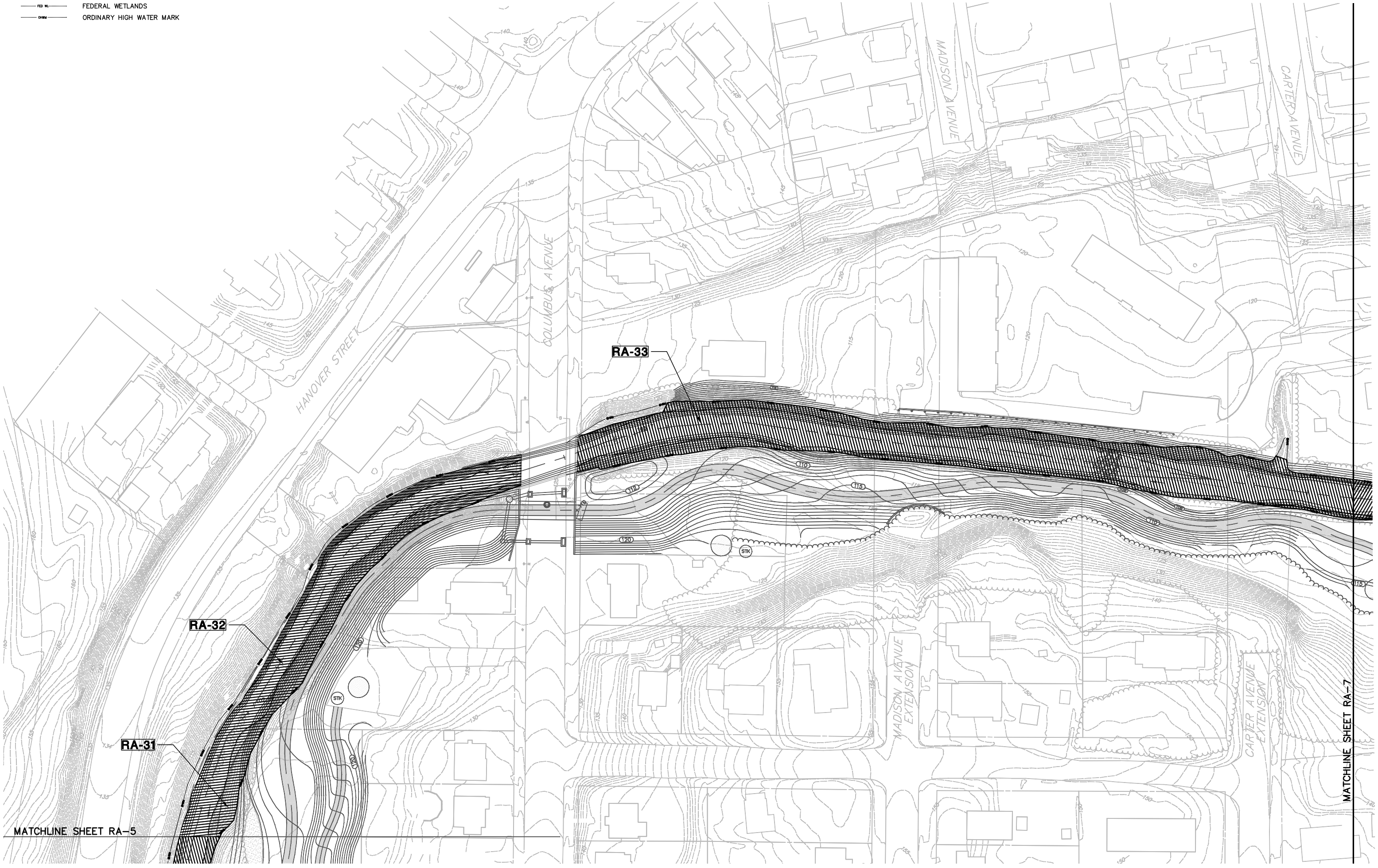
HANOVER STREET
COLUMBUS AVENUE
MADISON AVENUE
CARTER AVENUE
RA-33
RA-32
RA-31
STK
MADISON AVENUE EXTENSION
CARTER AVENUE EXTENSION
MATCHLINE SHEET RA-5
MATCHLINE SHEET RA-7

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0 20' 40'

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REGULATED ACTIVITIES

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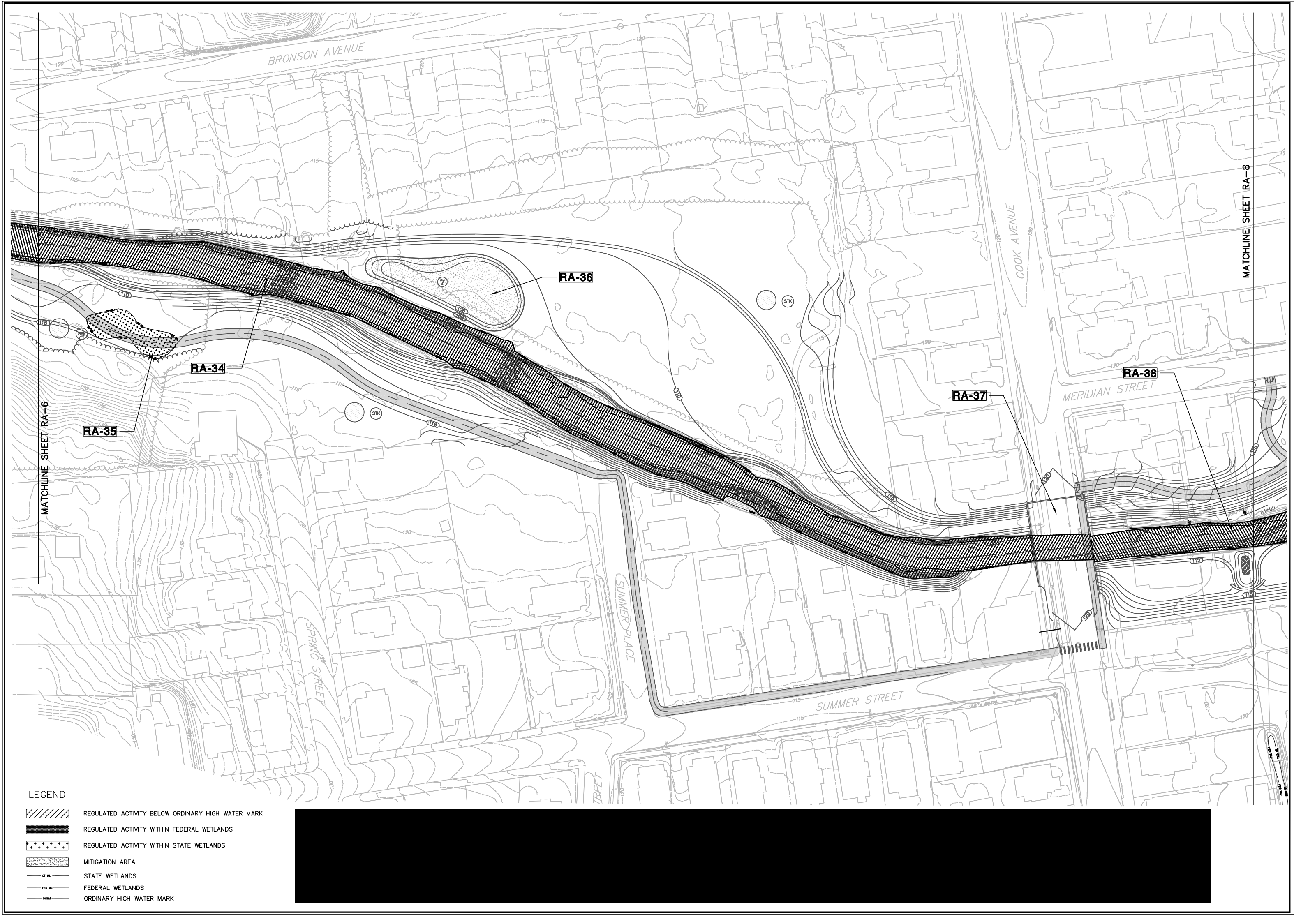
SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 08 OF 65

RA-6
SHEET NO.


BRONSON AVENUE
MATCHLINE SHEET RA-6
MATCHLINE SHEET RA-8
COOK AVENUE
MERIDIAN STREET
SPRING STREET
SUMMER PLACE
SUMMER STREET
STREET
RA-34
RA-35
RA-36
RA-37
RA-38
STK
7
110
115
120
125
130
140
112

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK

[redacted]

0 20' 40'

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REVISIONS
1 03/02/2012
2 04/18/2012

REGULATED ACTIVITIES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

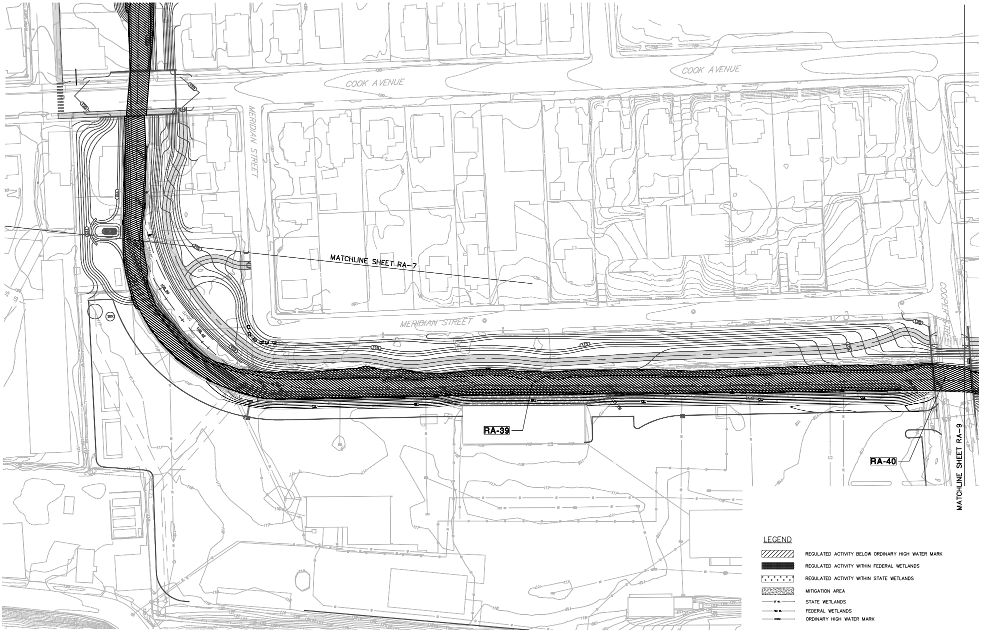
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 09 OF 65

RA-7
SHEET NO.


COOK AVENUE
COOK AVENUE
MERIDIAN STREET
MERIDIAN STREET
COOPER STREET
MATCHLINE SHEET RA-7
MATCHLINE SHEET RA-9
RA-39
RA-40
LEGEND
REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
REGULATED ACTIVITY WITHIN STATE WETLANDS
MITIGATION AREA
CT WL
STATE WETLANDS
FED WL
FEDERAL WETLANDS
OHWM
ORDINARY HIGH WATER MARK
0
20'
40'

[redacted]

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Landscape Architecture
and Environmental Science

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 10 OF 65

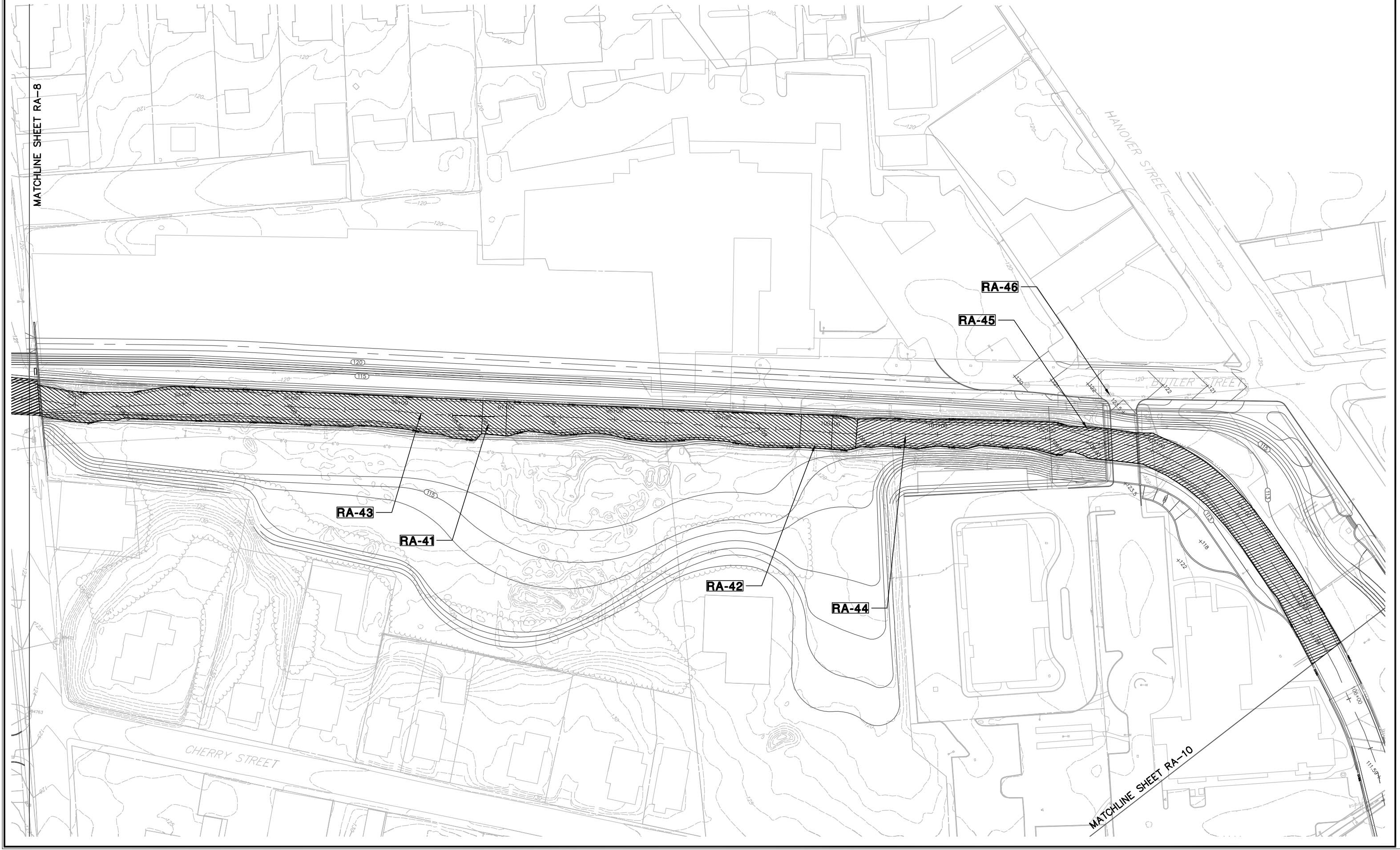
RA-8
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-1TO9.DWG Layout Tab:RA-9
Plotted by: BECKYM On this date: Mon, 2012 April 16 – 4:18pm

[redacted]

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
— CT WL —	STATE WETLANDS
— FED WL —	FEDERAL WETLANDS
— OHWM —	ORDINARY HIGH WATER MARK


MATCHLINE SHEET RA-8
HANOVER STREET
BUTLER STREET
CHERRY STREET
RA-46
RA-45
RA-43
RA-41
RA-42
RA-44
120
115
MATCHLINE SHEET RA-10

W
N
S
E
0
20'
40'

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HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

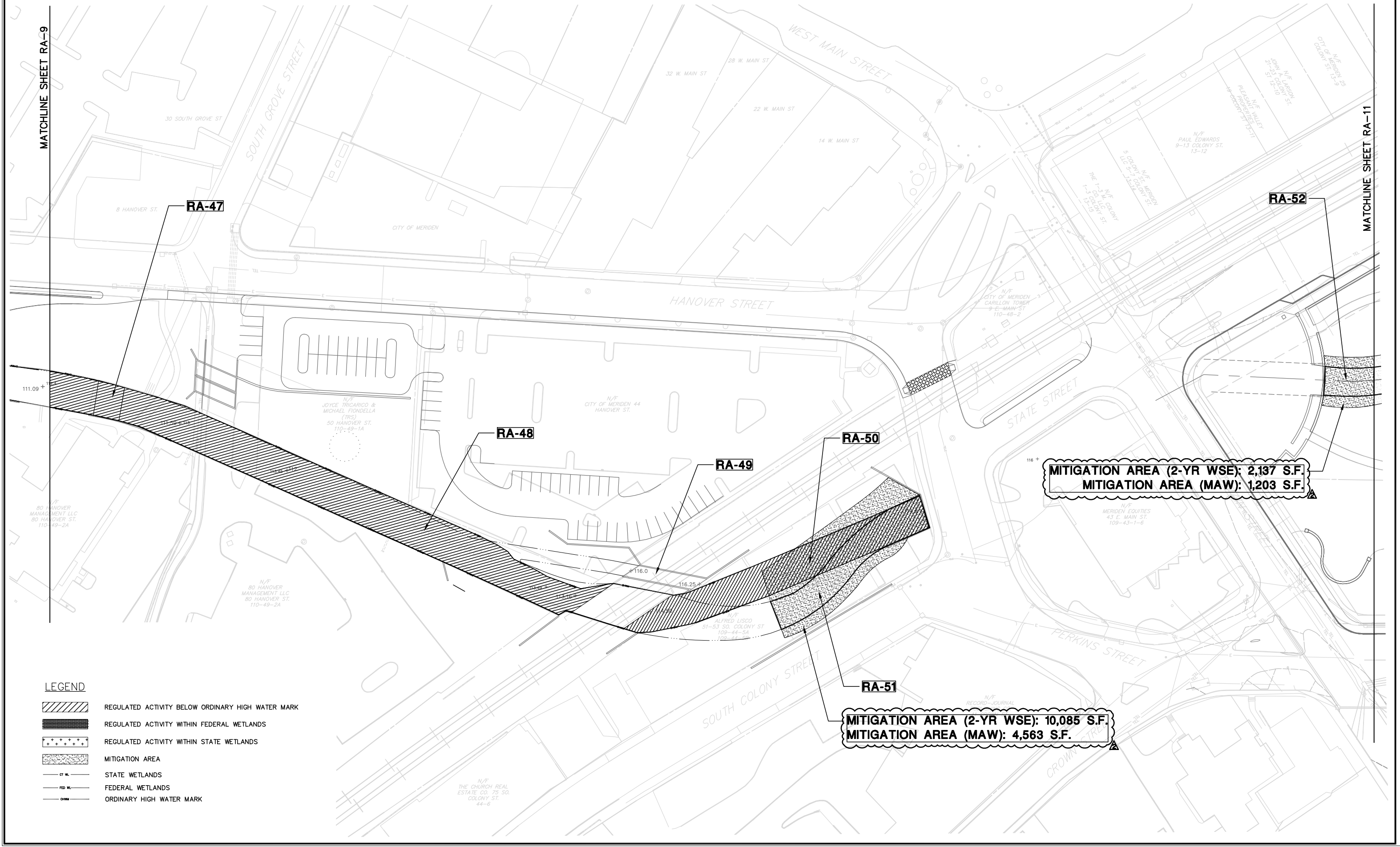
SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 11 OF 65

SHEET NO. RA-9

WSE = WATER SURFACE ELEVATION
MAW =- MEAN ANNUAL WATER

[redacted]

*STATE AND FEDERAL MITIGATION AREAS ON SHEETS RA-10, RA-11 AND RA-12 DIFFER DUE TO DIFFERENCES IN JURISDICTIONAL DETERMINATIONS.


MATCHLINE SHEET RA-9
MATCHLINE SHEET RA-11
RA-47
RA-48
RA-49
RA-50
RA-51
RA-52
WEST MAIN STREET
SOUTH GROVE STREET
HANOVER STREET
STATE STREET
PERKINS STREET
SOUTH COLONY STREET
30 SOUTH GROVE ST.
8 HANOVER ST.
32 W. MAIN ST
28 W. MAIN ST
22 W. MAIN ST
14 W. MAIN ST
CITY OF MERIDEN
N/F JOYCE TRICARICO & MICHAEL FIONDELLA (TRS) 50 HANOVER ST. 110-49-1A
N/F CITY OF MERIDEN 44 HANOVER ST.
N/F 80 HANOVER MANAGEMENT LLC 80 HANOVER ST. 110-49-2A
N/F CITY OF MERIDEN CARILLON TOWER 8 E. MAIN ST 110-48-2
N/F PAUL EDWARDS 9-13 COLONY ST. 13-12
N/F MERIDEN EQUITIES 47 E. MAIN ST. 109-45-1-6
N/F ALFRED LISCO 51-53 SO. COLONY ST 109-44-5A
N/F RECORD-JOURNAL
N/F THE CHURCH REAL ESTATE CO. 75 SO. COLONY ST. 44-6
111.09
116.0
116.25
116

MITIGATION AREA (2-YR WSE): 2,137 S.F.
MITIGATION AREA (MAW): 1,203 S.F.

MITIGATION AREA (2-YR WSE): 10,085 S.F.
MITIGATION AREA (MAW): 4,563 S.F.

LEGEND

▨ REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▤ REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ REGULATED ACTIVITY WITHIN STATE WETLANDS
░ MITIGATION AREA
— CT WL — STATE WETLANDS
— FED WL — FEDERAL WETLANDS
— OHWM — ORDINARY HIGH WATER MARK

0 20' 40'

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1 03/02/2012
2 04/26/2012

REGULATED ACTIVITIES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 12 OF 65

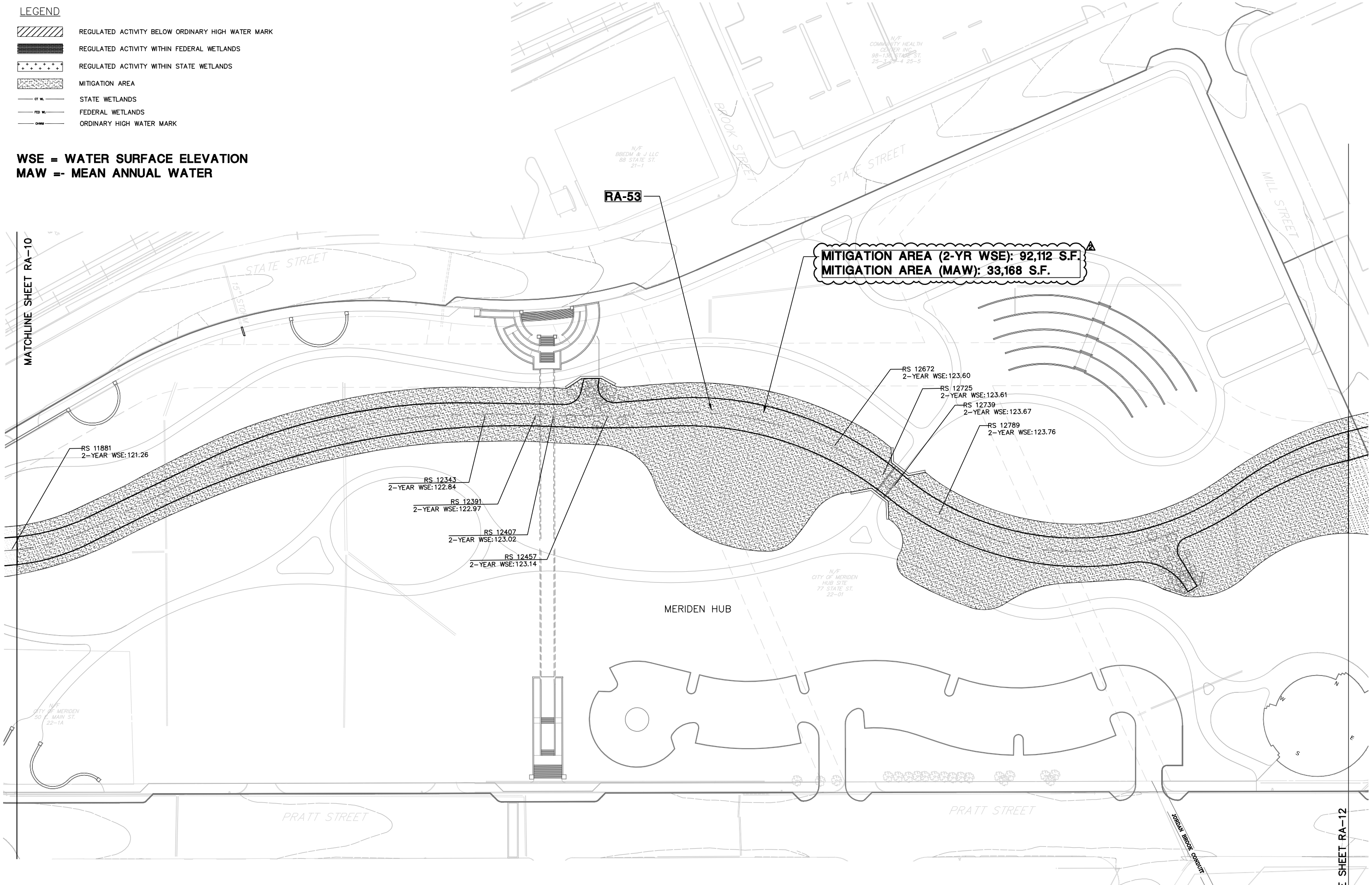
RA-10
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-10TO18.DWG Layout: Tab-RA-11
Plotted by: BECKYM On this date: Thu, 2012 April 26 - 11:54am

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▤	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK

WSE = WATER SURFACE ELEVATION
MAW =- MEAN ANNUAL WATER


RA-53
MITIGATION AREA (2-YR WSE): 92,112 S.F.
MITIGATION AREA (MAW): 33,168 S.F.
2
MATCHLINE SHEET RA-10
MATCHLINE SHEET RA-12
STATE STREET
STATE STREET
BROOK STREET
MILL STREET
PRATT STREET
PRATT STREET
15" STORM
N/F COMMUNITY HEALTH CENTER INC. 98-136 STATE ST. 25-3 25-4 25-5
N/F BBEDM & J LLC 88 STATE ST. 21-1
N/F CITY OF MERIDEN HUB SITE 77 STATE ST. 22-01
N/F CITY OF MERIDEN 50 E. MAIN ST. 22-1A
N/F C.R. KENNEDY LIMITED PARTNERSHIP 71 CATLIN ST. 31-3 31-12
MERIDEN HUB
JORDAN BROOK CONDUIT
RS 11881 2-YEAR WSE:121.26
RS 12343 2-YEAR WSE:122.84
RS 12391 2-YEAR WSE:122.97
RS 12407 2-YEAR WSE:123.02
RS 12457 2-YEAR WSE:123.14
RS 12672 2-YEAR WSE:123.60
RS 12725 2-YEAR WSE:123.61
RS 12739 2-YEAR WSE:123.67
RS 12789 2-YEAR WSE:123.76
N
E
S
W

[redacted]

*STATE AND FEDERAL MITIGATION AREAS ON SHEETS RA-10, RA-11 AND RA-12 DIFFER DUE TO DIFFERENCES IN JURISDICTIONAL DETERMINATIONS.

N W E S
0 20' 40'

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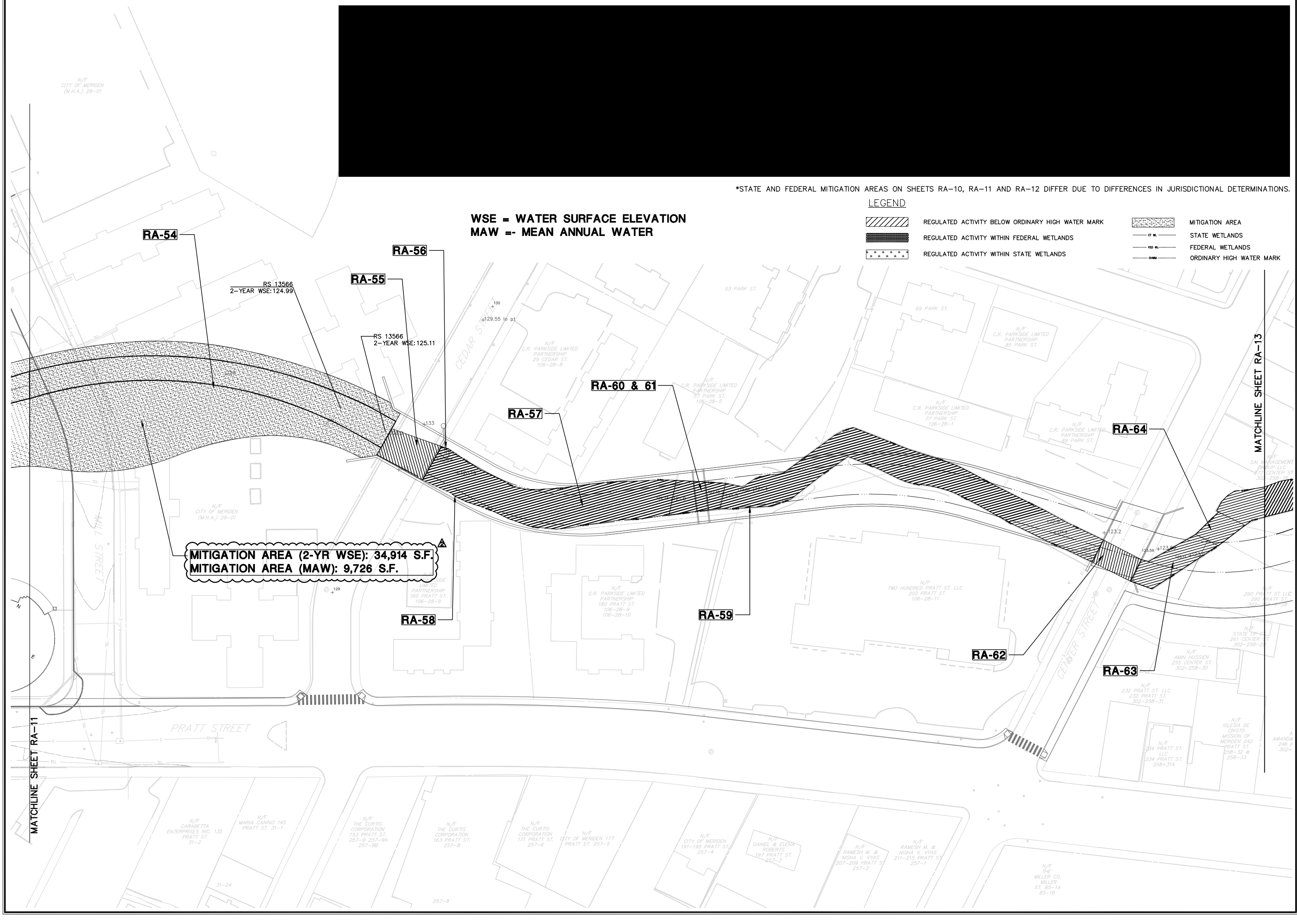
REGULATED ACTIVITIES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 13 OF 65

RA-11
SHEET NO.

[redacted]


RA-54
RA-55
RA-56
RA-57
RA-58
RA-59
RA-60 & 61
RA-62
RA-63
RA-64
RS 13566
2-YEAR WSE:124.99
RS 13566
2-YEAR WSE:125.11
MITIGATION AREA (2-YR WSE): 34,914 S.F.
MITIGATION AREA (MAW): 9,726 S.F.
MATCHLINE SHEET RA-11
MATCHLINE SHEET RA-13
PRATT STREET
CEDAR STREET
CENTER STREET
HALL STREET
N/F CITY OF MERIDEN (M.H.A.) 29-01
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 29 CEDAR ST. 106-28-8
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 57 PARK ST. 106-28-5
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 77 PARK ST. 106-28-1
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 85 PARK ST.
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 89 PARK ST.
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 180 PRATT ST 106-28-9 106-28-10
N/F TWO HUNDRED PRATT ST. LLC 200 PRATT ST. 106-28-11
53 PARK ST.
69 PARK ST.
129.55 lo pt
+133
+129
+123.2

*STATE AND FEDERAL MITIGATION AREAS ON SHEETS RA-10, RA-11 AND RA-12 DIFFER DUE TO DIFFERENCES IN JURISDICTIONAL DETERMINATIONS.

WSE = WATER SURFACE ELEVATION
MAW =- MEAN ANNUAL WATER

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▤	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK

0 20' 40'

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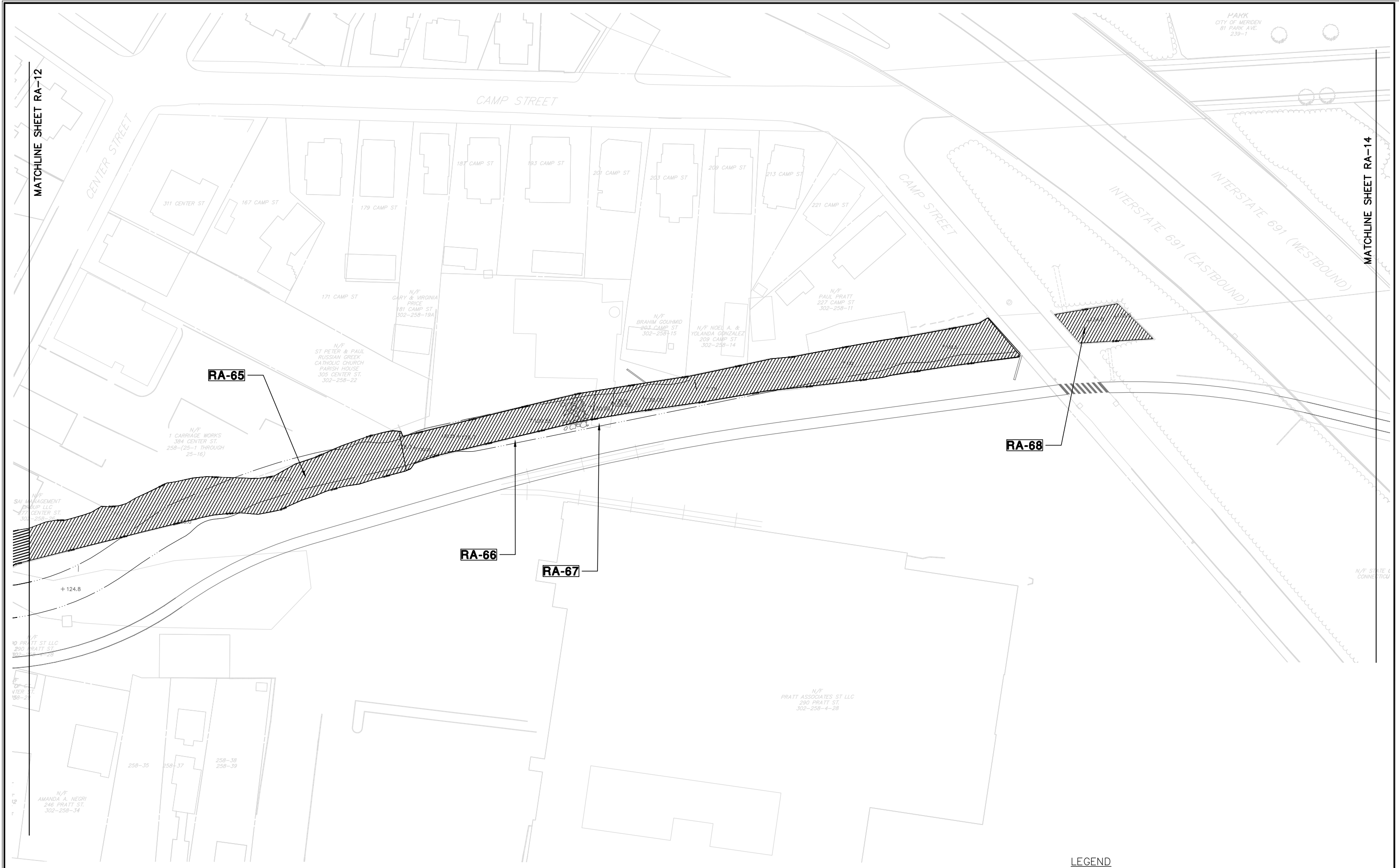
2	04/26/2012

REGULATED ACTIVITIES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 14 OF 65
RA-12
SHEET NO.


MATCHLINE SHEET RA-12
MATCHLINE SHEET RA-14
CAMP STREET
CENTER STREET
INTERSTATE 691 (EASTBOUND)
INTERSTATE 691 (WESTBOUND)
PARK
CITY OF MERIDEN
81 PARK AVE.
239-1
311 CENTER ST
167 CAMP ST
179 CAMP ST
187 CAMP ST
193 CAMP ST
201 CAMP ST
203 CAMP ST
209 CAMP ST
213 CAMP ST
221 CAMP ST
171 CAMP ST
N/F
GARY & VIRGINIA
PRICE
181 CAMP ST
302-258-19A
N/F
ST PETER & PAUL
RUSSIAN GREEK
CATHOLIC CHURCH
PARISH HOUSE
305 CENTER ST.
302-258-22
N/F
BRAHIM GOUHMID
203 CAMP ST
302-258-15
N/F NOEL A. &
YOLANDA GONZALEZ
209 CAMP ST
302-258-14
N/F
PAUL PRATT
227 CAMP ST
302-258-11
N/F
1 CARRIAGE WORKS
384 CENTER ST.
258-(25-1 THROUGH
25-16)
N/F
PRATT ASSOCIATES ST LLC
290 PRATT ST.
302-258-4-28
N/F
AMANDA A. NEGRI
246 PRATT ST.
302-258-34
258-35
258-37
258-38
258-39
+ 124.8
RA-65
RA-66
RA-67
RA-68
0 20' 40'

[redacted]

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▤	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK

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HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

SCALE 1"=40'

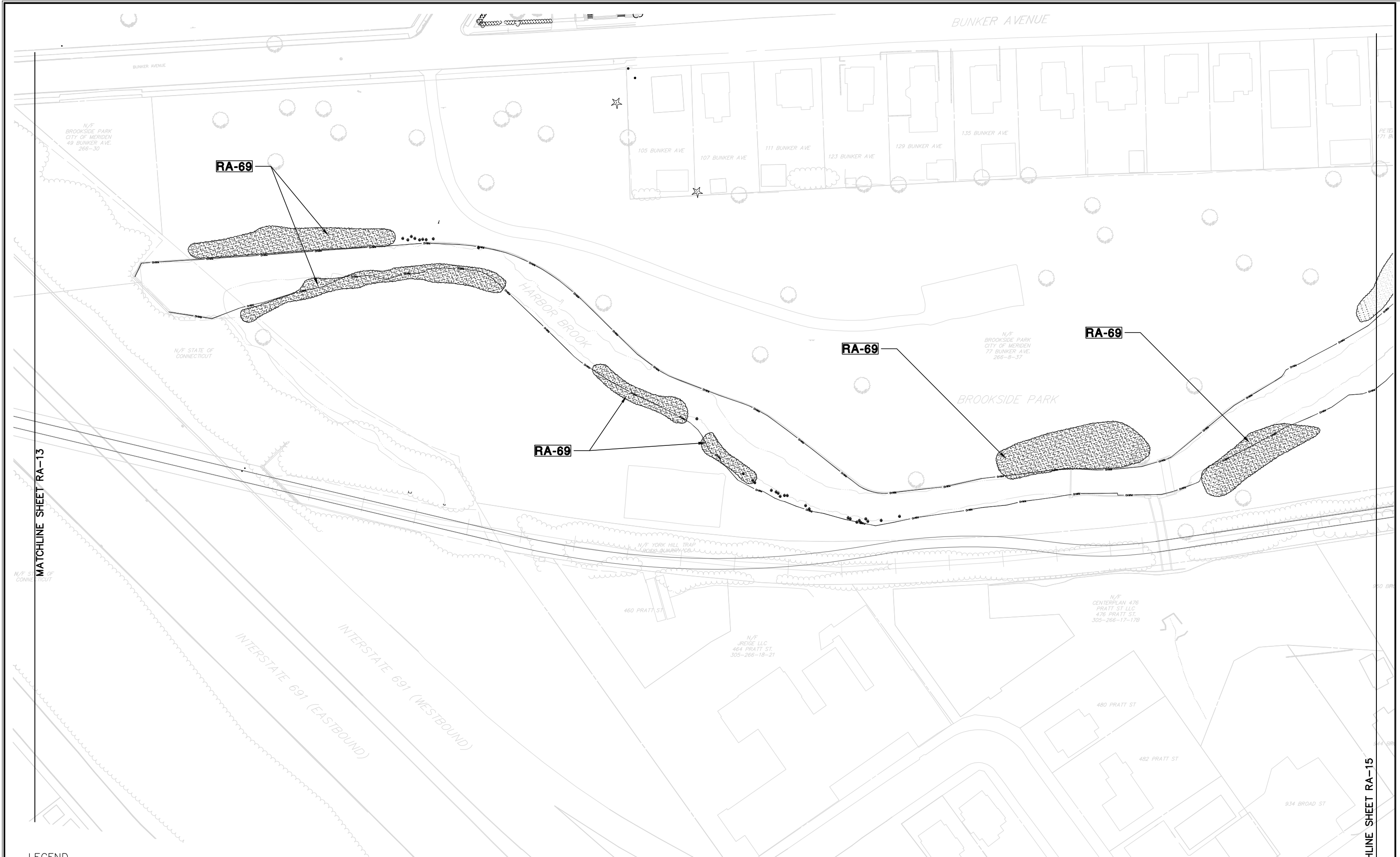
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 15 OF 65

SHEET NO. **RA-13**

Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-10TO18.DWG Layout Tab:RA-14
Plotted by: BECKYM On this date: Wed, 2012 April 18 - 9:42am

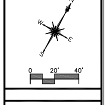


BUNKER AVENUE
BUNKER AVENUE
N/F BROOKSIDE PARK CITY OF MERIDEN 49 BUNKER AVE. 266-30
105 BUNKER AVE
107 BUNKER AVE
111 BUNKER AVE
123 BUNKER AVE
129 BUNKER AVE
135 BUNKER AVE
RA-69
RA-69
RA-69
RA-69
HARBOR BROOK
N/F BROOKSIDE PARK CITY OF MERIDEN 77 BUNKER AVE. 266-8-37
BROOKSIDE PARK
N/F STATE OF CONNECTICUT
N/F STATE OF CONNECTICUT
MATCHLINE SHEET RA-13
MATCHLINE SHEET RA-15
N/F YORK HILL TRAP ROCK QUARRY CO.
460 PRATT ST
N/F JREIGE LLC 464 PRATT ST. 305-266-18-21
N/F CENTERPLAN 476 PRATT ST LLC 476 PRATT ST. 305-266-17-17B
480 PRATT ST
482 PRATT ST
934 BROAD ST
920 BROAD ST
INTERSTATE 691 (EASTBOUND)
INTERSTATE 691 (WESTBOUND)

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▤	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
—— CT WL ——	STATE WETLANDS
—— FED WL ——	FEDERAL WETLANDS
—— OHWM ——	ORDINARY HIGH WATER MARK

[redacted]



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REGULATED ACTIVITIES

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

SCALE 1"=40'

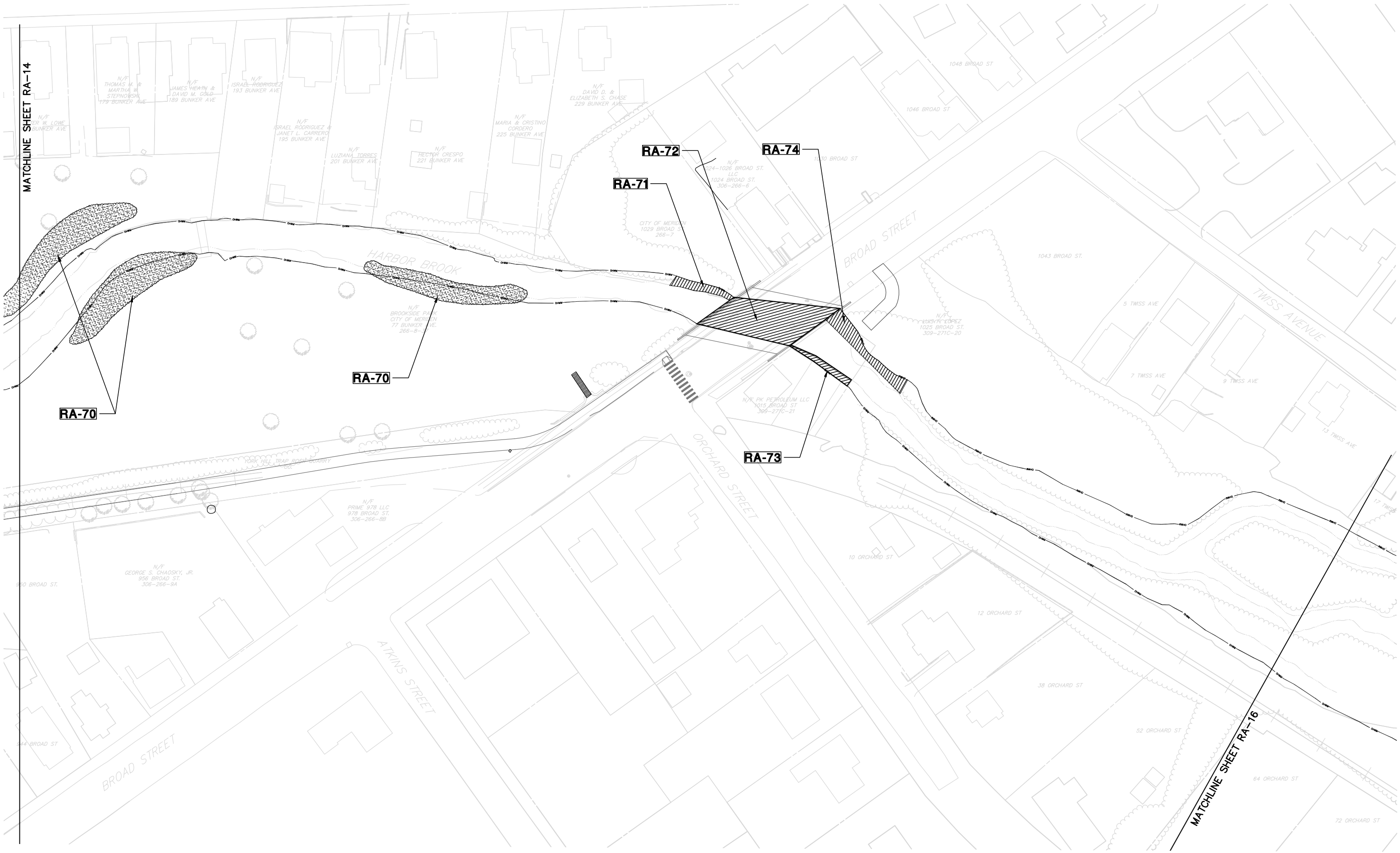
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 16 OF 65

RA-14
SHEET NO.

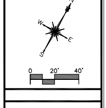
Drawing: H:\1261-14\DWG\CURRENT\HB-REGAREAS-10TO18.DWG Layout Tab:RA-15
Plotted by: BECKYM On this date: Wed, 2012 April 18 - 9:42am


MATCHLINE SHEET RA-14
N/F THOMAS M. & MARTHA M. STEPNOWSKI 179 BUNKER AVE
N/F JAMES HEATH & DAVID M. GOLD 189 BUNKER AVE
N/F ISRAEL RODRIGUEZ 193 BUNKER AVE
N/F ISRAEL RODRIGUEZ & JANET L. CARRERO 195 BUNKER AVE
N/F LUZIANA TORRES 201 BUNKER AVE
N/F HECTOR CRESPO 221 BUNKER AVE
N/F MARIA & CRISTINO CORDERO 225 BUNKER AVE
N/F DAVID D. & ELIZABETH S. CHASE 229 BUNKER AVE
CITY OF MERIDEN 1029 BROAD ST. 266-7
1024-1026 BROAD ST. LLC 1024 BROAD ST. 306-266-6
1048 BROAD ST
1046 BROAD ST
1040 BROAD ST
1043 BROAD ST
RA-72
RA-74
RA-71
RA-70
RA-70
RA-73
HARBOR BROOK
N/F BROOKSIDE PARK CITY OF MERIDEN 77 BUNKER AVE. 266-8
BROAD STREET
TWISS AVENUE
5 TWISS AVE
7 TWISS AVE
9 TWISS AVE
13 TWISS AVE
17 TWISS
N/F LOPEZ 1025 BROAD ST. 309-271C-20
N/F PK PETROLEUM LLC 1015 BROAD ST. 309-271C-21
ORCHARD STREET
YORK HILL TRAP ROCK QUARRY CO.
N/F PRIME 978 LLC 978 BROAD ST. 306-266-8B
N/F GEORGE S. CHAOSKY, JR. 956 BROAD ST. 306-266-9A
950 BROAD ST.
944 BROAD ST
BROAD STREET
ATKINS STREET
10 ORCHARD ST
12 ORCHARD ST
38 ORCHARD ST
52 ORCHARD ST
64 ORCHARD ST
72 ORCHARD ST
MATCHLINE SHEET RA-16

LEGEND

▨ REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▩ REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + + REGULATED ACTIVITY WITHIN STATE WETLANDS
░ MITIGATION AREA
—CT WL— STATE WETLANDS
—FED WL— FEDERAL WETLANDS
—OHWM— ORDINARY HIGH WATER MARK

[redacted]



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REGULATED ACTIVITIES
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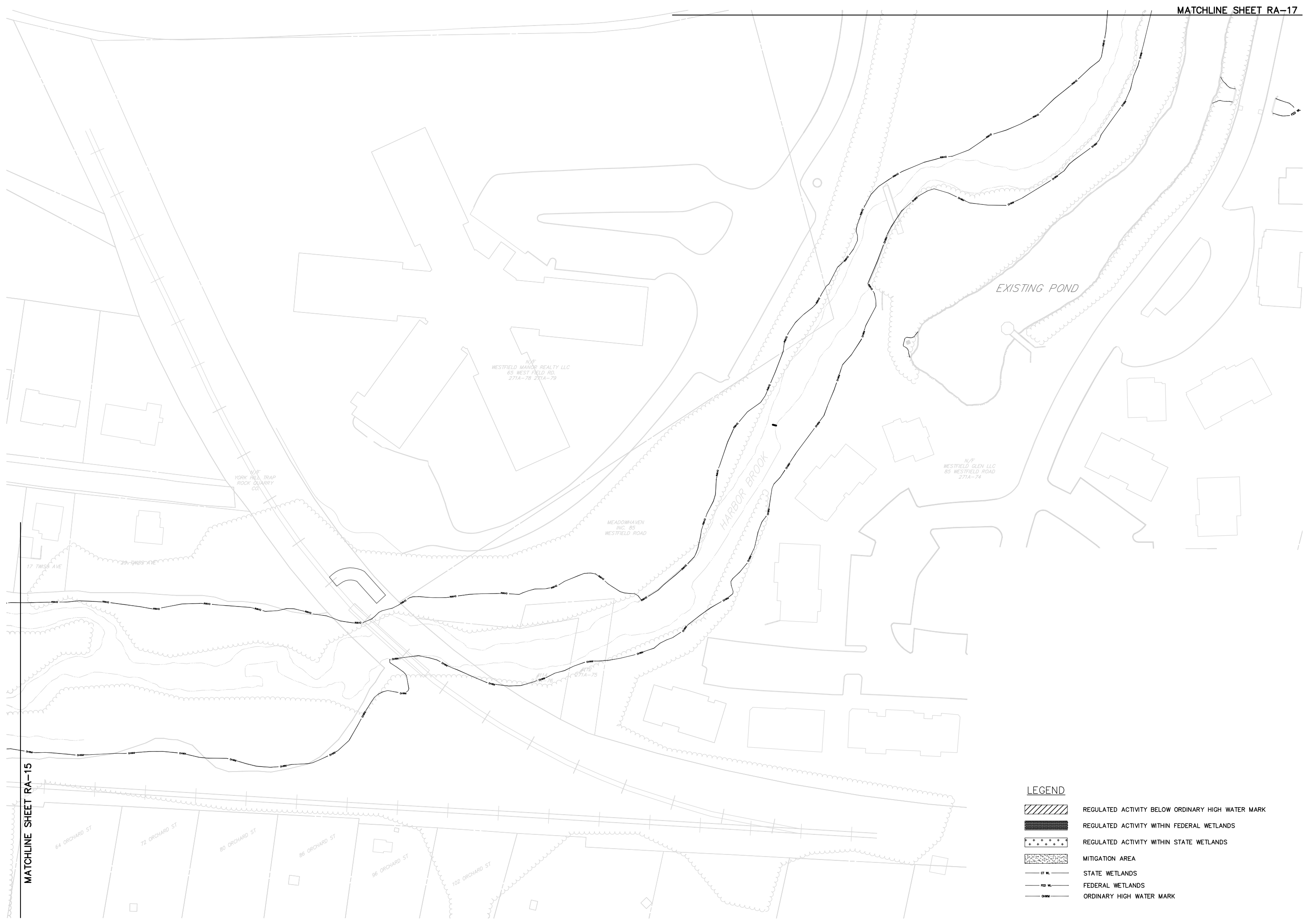
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 17 OF 65

RA-15
SHEET NO.


MATCHLINE SHEET RA–17
MATCHLINE SHEET RA–15
EXISTING POND
HARBOR BROOK
N/F
WESTFIELD MANOR REALTY LLC
65 WEST FIELD RD.
271A–78 271A–79
N/F
YORK HILL TRAP
ROCK QUARRY
CO.
MEADOWHAVEN
INC. 85
WESTFIELD ROAD
N/F
WESTFIELD GLEN LLC
85 WESTFIELD ROAD
271A–74
17 TWISS AVE
29 TWISS AVE
#114
271A–76
#112
271A–75
64 ORCHARD ST
72 ORCHARD ST
80 ORCHARD ST
86 ORCHARD ST
96 ORCHARD ST
102 ORCHARD ST
OHWM
FED WL

LEGEND

▨	REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▤	REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
+ + +	REGULATED ACTIVITY WITHIN STATE WETLANDS
░	MITIGATION AREA
— CT WL —	STATE WETLANDS
— FED WL —	FEDERAL WETLANDS
— OHWM —	ORDINARY HIGH WATER MARK

N
W
E
S
0
20'
40'

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REGULATED ACTIVITIES

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

NEB DESIGNED	BAM DRAWN	JGM CHECKED

SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

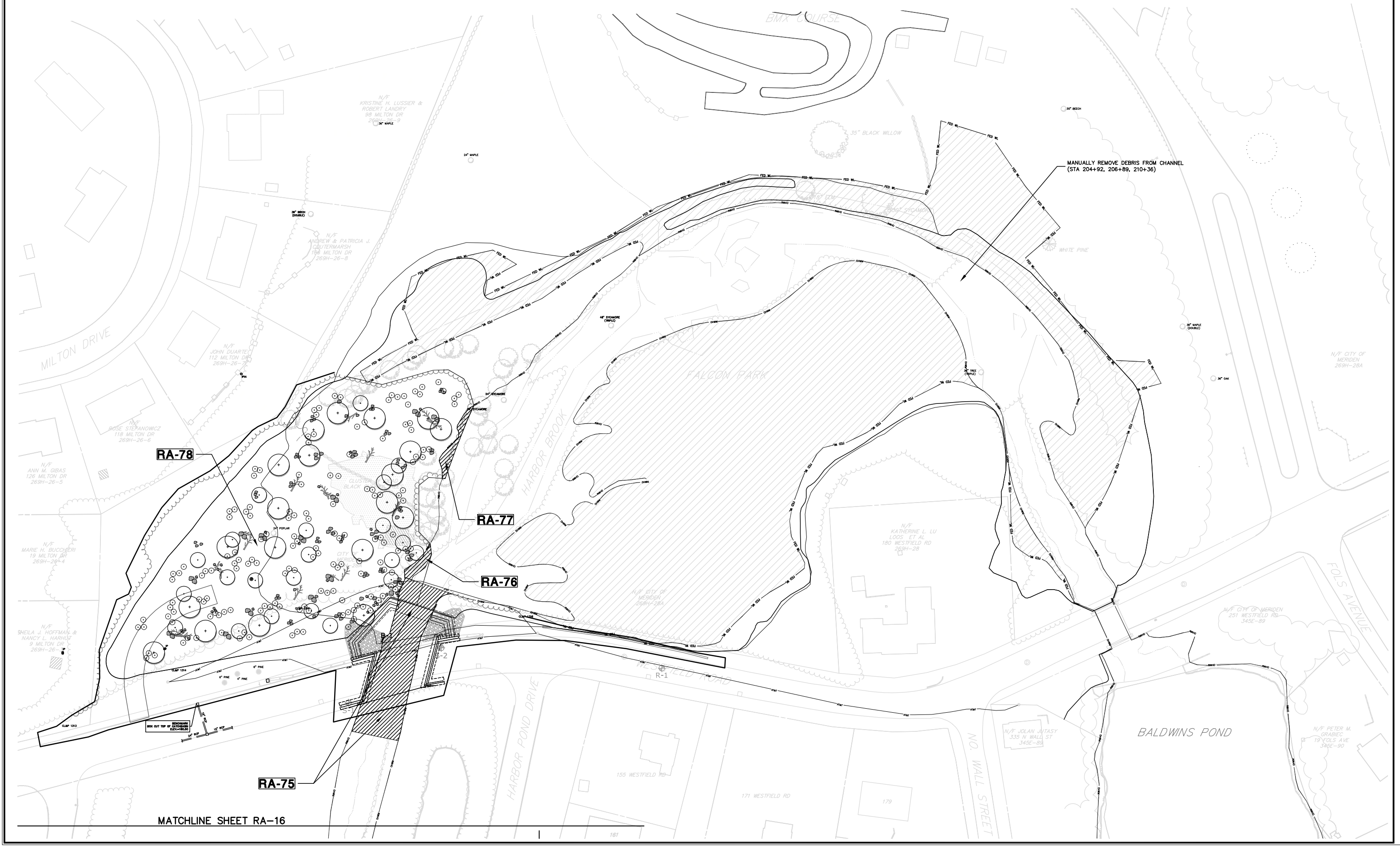
SHEET NO. 18 OF 65

RA-16
SHEET NO.

LEGEND

▨ REGULATED ACTIVITY BELOW ORDINARY HIGH WATER MARK
▦ REGULATED ACTIVITY WITHIN FEDERAL WETLANDS
⁺ REGULATED ACTIVITY WITHIN STATE WETLANDS
░ MITIGATION AREA
—— CT WL —— STATE WETLANDS
—— FED WL —— FEDERAL WETLANDS
—— OHWM —— ORDINARY HIGH WATER MARK

			Activities Below OHWM					Activities within Federal Wetlands				Activities within State Wetlands				
Proposed Conditions River Station	Regulated Activity ID	Activity	Permanent Area OHWM (sf)	Permanent Fill Volume (cf)	Temporary Area OHWM (sf)	Temporary Fill Volume (cf)	Linear feet of work on banks	Permanent Area Fed WL (sf)	Permanent Fill Volume Fed WL (cf)	Temporary Area Fed WL (sf)	Temporary Fill Volume Fed WL (cf)	Permanent Area State WL (sf)	Permanent Fill Volume State WL (cf)	Temporary Area State WL (sf)	Temporary Fill Volume State WL (cf)	Mitigation Area (sf)
200+62 - 201+77	RA-75	Construction of flow control system at Westfield Road bridge	5,413	-	-	-	305	-	-	-	-	-	-	-	-	
201+77- 202+14	RA-76	Grading on right bank in conjunction with flood storage bench excavation on right bank	300	-	-	-	42	-	-	-	-	-	-	-	-	
202+85 - 203+77	RA-77	Grading on right bank in conjunction with flood storage bench excavation on right bank	423	-	-	-	92	-	-	-	-	-	-	-	-	
201+30 - 203+88	RA-78	Riparian buffer plantings along right bank	-	-	-	-	-	-	-	-	-	-	-	-	-	36,155
		Total Sheet RA-17	**6,136**	**0**	**0**	**0**	**439**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**36,155**
		ac. / cy	**0.14**	**0**				**0.00**	**0**							**0.83**


BMX COURSE
MILTON DRIVE
HARBOR BROOK
FALCON PARK
RA-78
RA-77
RA-76
RA-75
MANUALLY REMOVE DEBRIS FROM CHANNEL
(STA 204+92, 206+89, 210+36)
35" BLACK WILLOW
WHITE PINE
N/F KRISTINE H. LUSSIER & ROBERT LANDRY 98 MILTON DR
N/F ANDREW & PATRICIA J. OUTERMARSH 108 MILTON DR
N/F JOHN QUARTO 112 MILTON DR
N/F ROSE STEPANOWICZ 118 MILTON DR
N/F ANN M. GBIAS 126 MILTON DR
N/F MARIE H. BUCCHIERI 19 MILTON DR
N/F SHEILA J. HOFFMAN & NANCY L. HARHOT 9 MILTON DR
N/F CITY OF MERIDEN
N/F KATHERINE L. LU LOOS, ET AL 180 WESTFIELD RD
N/F CITY OF MERIDEN 251 WESTFIELD RD
N/F JOLAN JUTASY 335 N WALL ST
N/F PETER M. GRABIEC 19 FOLS AVE
WESTFIELD ROAD
HARBOR POND DRIVE
NO. WALL STREET
FOLS AVENUE
BALDWINS POND
155 WESTFIELD RD
171 WESTFIELD RD
179
181
R-1
MATCHLINE SHEET RA-16

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0 20' 40'

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1 03/02/2012
2 04/18/2012

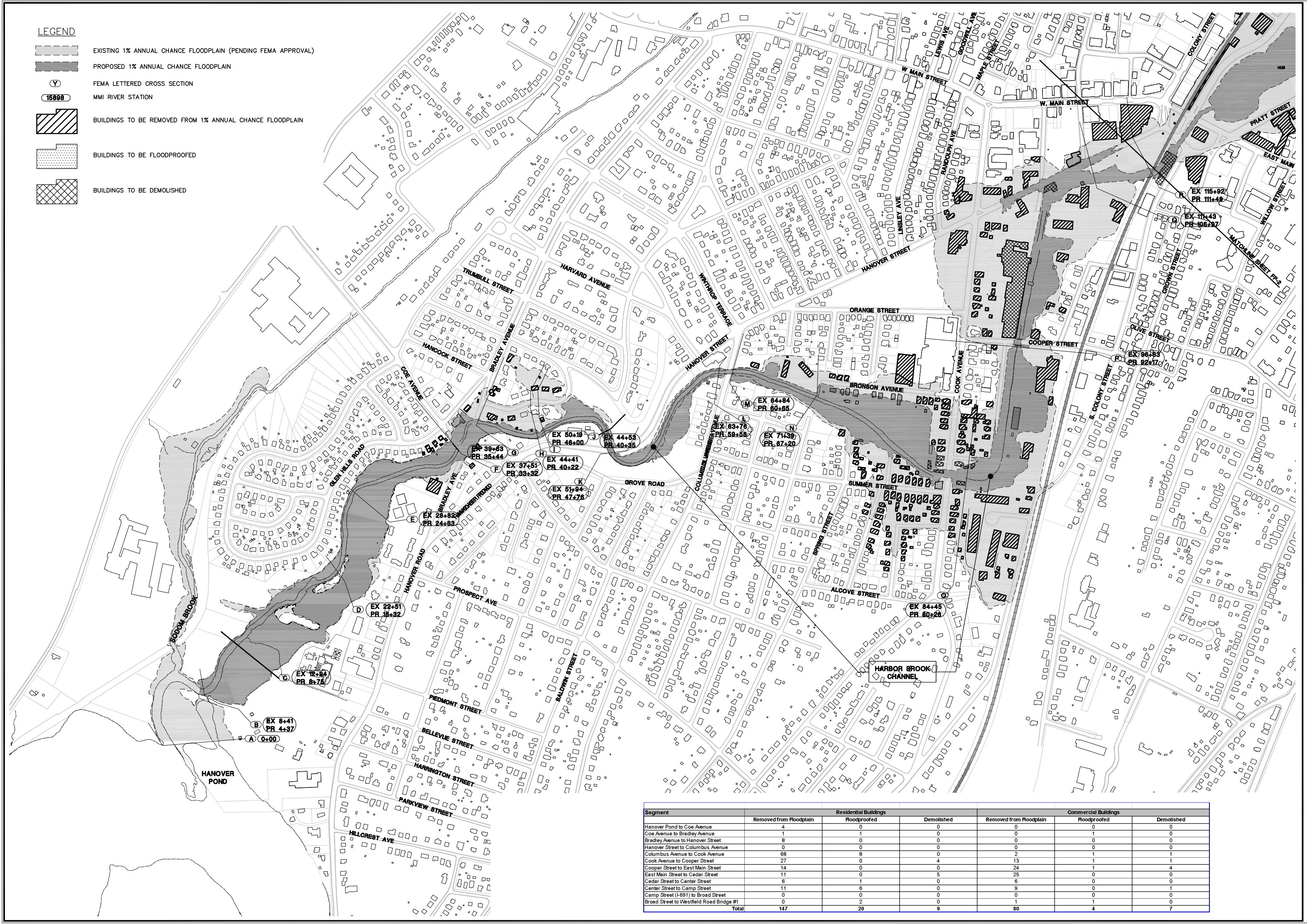
REGULATED ACTIVITIES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE **1"=40'**
DATE **FEB 2011**
PROJECT NO. **1261-14-20**
SHEET NO. 19 OF 65

RA-17
SHEET NO.


LEGEND
EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
PROPOSED 1% ANNUAL CHANCE FLOODPLAIN
Y FEMA LETTERED CROSS SECTION
15898 MMI RIVER STATION
BUILDINGS TO BE REMOVED FROM 1% ANNUAL CHANCE FLOODPLAIN
BUILDINGS TO BE FLOODPROOFED
BUILDINGS TO BE DEMOLISHED
HANOVER POND
SODOM BROOK
A 0+00
B EX 8+41 PR 4+37
C EX 12+84 PR 8+75
D EX 22+51 PR 18+32
E EX 28+82 PR 24+63
F EX 37+51 PR 33+32
G EX 39+63 PR 35+44
H EX 44+41 PR 40+22
I EX 50+19 PR 46+00
J EX 44+53 PR 40+35
K EX 51+94 PR 47+76
L EX 63+76 PR 59+58
M EX 64+84 PR 60+65
N EX 71+39 PR 67+20
O EX 84+45 PR 80+26
P EX 96+63 PR 92+17
Q EX 111+43 PR 106+97
R EX 115+92 PR 111+49
HARBOR BROOK CHANNEL
MATCHLINE SHEET FP-2
GLEN HILLS ROAD
COE AVENUE
HANCOCK STREET
BRADLEY AVENUE
BRADLEY AVE
HANOVER ROAD
TRUMBULL STREET
HARVARD AVENUE
WINTHROP TERRACE
HANOVER STREET
GROVE ROAD
COLUMBUS AVENUE
ORANGE STREET
BRONSON AVENUE
COOK AVENUE
SUMMER STREET
SPRING STREET
ALCOVE STREET
PROSPECT AVE
PIEDMONT STREET
BALDWIN STREET
BELLEVUE STREET
HARRINGTON STREET
PARKVIEW STREET
HILLCREST AVE
LINSLEY AVE
RANDOLPH AVE
LEWIS AVE
GOODWILL AVE
MAPLE STREET
W MAIN STREET
W. MAIN STREET
COLONY STREET
PRATT STREET
EAST MAIN
WILLOW STREET
CROWN STREET
OLIVE STREET
COOPER STREET
S. COLONY STREET
HUB

Segment	Residential Buildings			Commercial Buildings		
	Removed from Floodplain	Floodproofed	Demolished	Removed from Floodplain	Floodproofed	Demolished
Hanover Pond to Coe Avenue	4	0	0	0	0	0
Coe Avenue to Bradley Avenue	1	1	0	0	1	0
Bradley Avenue to Hanover Street	8	0	0	0	0	0
Hanover Street to Columbus Avenue	0	0	0	0	0	0
Columbus Avenue to Cook Avenue	68	8	0	2	1	1
Cook Avenue to Cooper Street	27	0	4	13	1	1
Cooper Street to East Main Street	14	0	0	24	1	4
East Main Street to Cedar Street	11	0	5	25	0	0
Cedar Street to Center Street	6	1	0	6	0	0
Center Street to Camp Street	11	6	0	9	0	1
Camp Street (I-691) to Broad Street	0	0	0	0	0	0
Broad Street to Westfield Road Bridge #1	0	2	0	1	1	0
Total	**147**	**20**	**9**	**80**	**4**	**7**

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0 150' 300'

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1% ANNUAL CHANCE FLOODPLAIN MAPPING

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB DESIGNED	BAM DRAWN	JGM CHECKED

SCALE 1"=300'

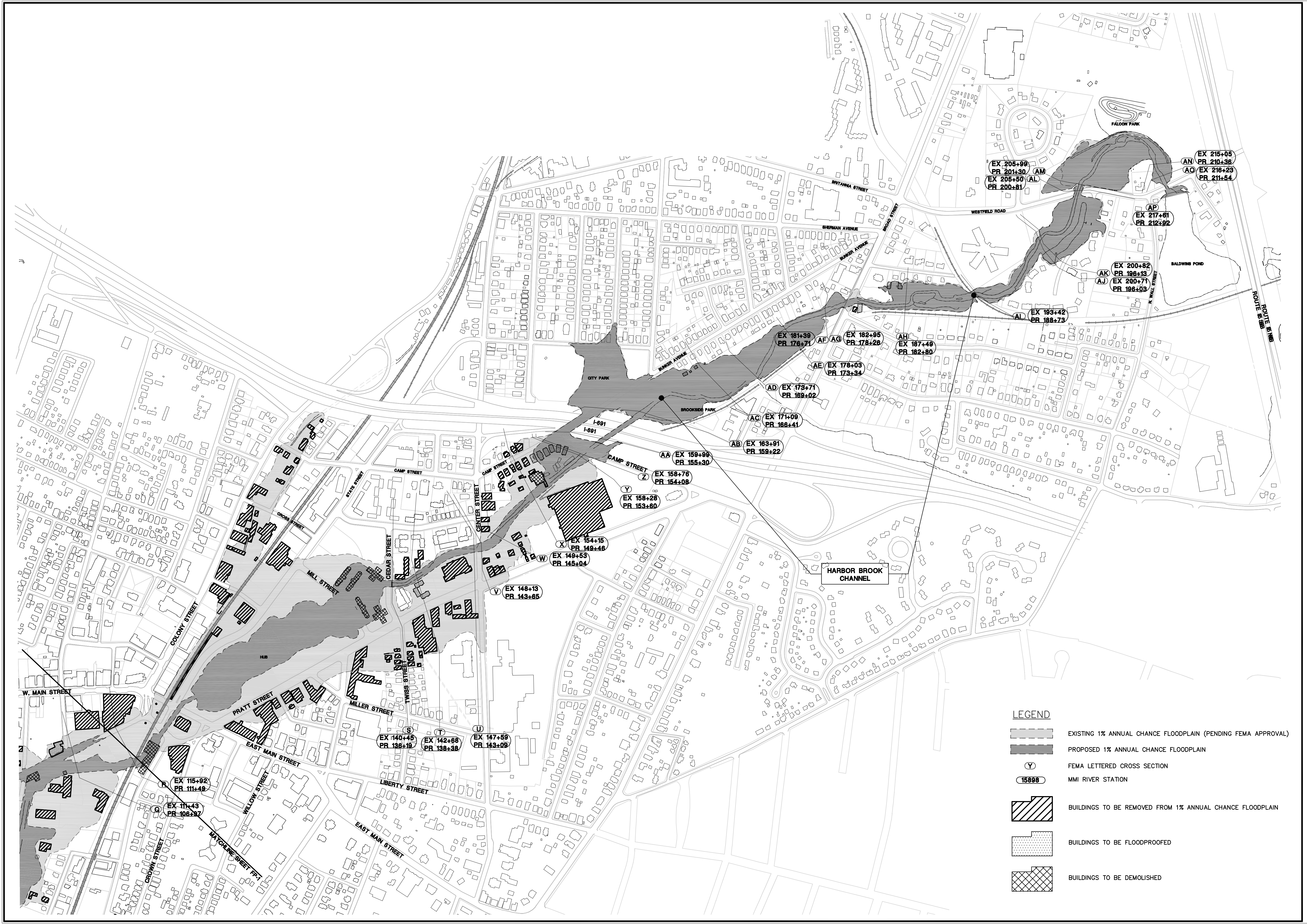
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 20 OF 65

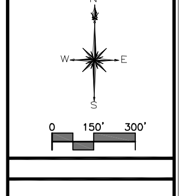
FP-1
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-FLOODPLAIN.DWG Layout Tab:FP-2
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:28pm


FALCON PARK
EX 205+99
PR 201+30
AM
EX 205+50
PR 200+81
AL
AN
EX 215+05
PR 210+36
AO
EX 216+23
PR 211+54
BRITANNIA STREET
WESTFIELD ROAD
AP
EX 217+61
PR 212+92
SHERMAN AVENUE
BROAD STREET
BUNKER AVENUE
EX 200+82
PR 196+13
AK
AJ
EX 200+71
PR 196+03
BALDWINS POND
N. WALL STREET
ROUTE 15 NB
ROUTE 15 SB
AI
EX 193+42
PR 188+73
EX 181+39
PR 176+71
AF
AG
EX 182+95
PR 178+26
AH
EX 187+49
PR 182+80
AE
EX 178+03
PR 173+34
CITY PARK
BUNKER AVENUE
AD
EX 173+71
PR 169+02
BROOKSIDE PARK
AC
EX 171+09
PR 166+41
I-691
I-691
AB
EX 163+91
PR 159+22
AA
EX 159+99
PR 155+30
CAMP STREET
Z
EX 158+76
PR 154+08
Y
EX 158+28
PR 153+60
CAMP STREET
CAMP STREET
STATE STREET
CROSS STREET
CENTER STREET
X
EX 154+15
PR 149+46
W
EX 149+53
PR 145+04
CEDAR STREET
MILL STREET
HARBOR BROOK CHANNEL
V
EX 148+13
PR 143+65
COLONY STREET
HUB
W. MAIN STREET
PRATT STREET
MILLER STREET
TWISS STREET
S
EX 140+45
PR 136+19
T
EX 142+68
PR 138+38
U
EX 147+59
PR 143+09
EAST MAIN STREET
P
EX 115+92
PR 111+49
WILLOW STREET
LIBERTY STREET
Q
EX 111+43
PR 106+97
CROWN STREET
MATCHLINE SHEET FP-1
EAST MAIN STREET

LEGEND

▨	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
▨	PROPOSED 1% ANNUAL CHANCE FLOODPLAIN
(Y)	FEMA LETTERED CROSS SECTION
(15898)	MMI RIVER STATION
▨	BUILDINGS TO BE REMOVED FROM 1% ANNUAL CHANCE FLOODPLAIN
▨	BUILDINGS TO BE FLOODPROOFED
▨	BUILDINGS TO BE DEMOLISHED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1% ANNUAL CHANCE FLOODPLAIN MAPPING

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=300'

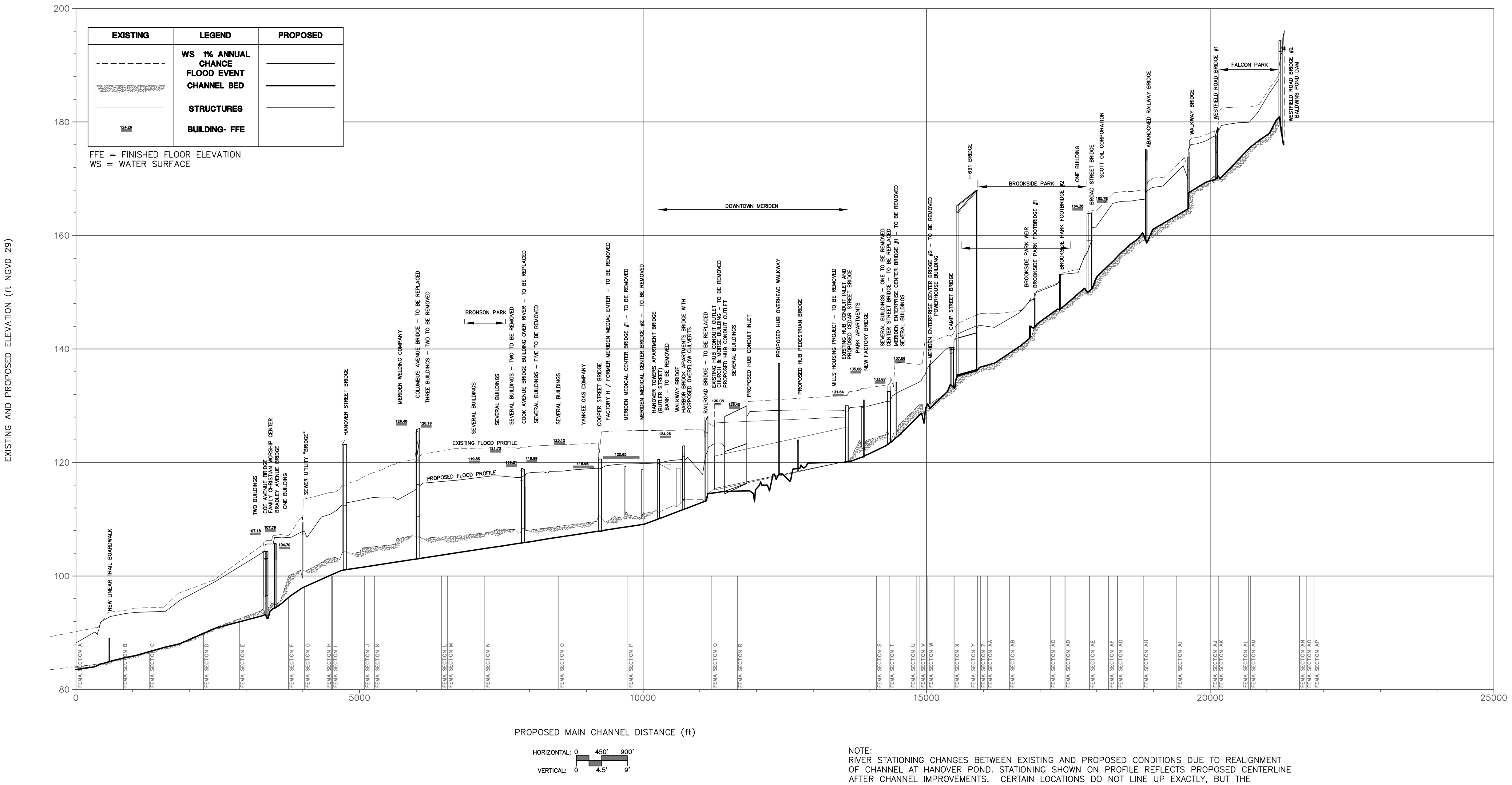
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 21 OF 65

FP-2
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-PROFILE.DWG Layout Tab:PROF-1
Plotted by: BECKYM On this date: Tue, 2012 April 17 - 4:58pm



NOTE:
RIVER STATIONING CHANGES BETWEEN EXISTING AND PROPOSED CONDITIONS DUE TO REALIGNMENT OF CHANNEL AT HANOVER POND. STATIONING SHOWN ON PROFILE REFLECTS PROPOSED CENTERLINE AFTER CHANNEL IMPROVEMENTS. CERTAIN LOCATIONS DO NOT LINE UP EXACTLY, BUT THE CROSS-SECTIONS ARE AT THE SAME LOCATION. MINOR DIFFERENCES WHICH APPEAR ON THE PROFILE ARE DUE TO DIFFERENCES IN RIVER DISTANCES BETWEEN SOME SECTIONS IN THE HYDRAULIC MODEL.

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PROFILE - HARBOR BROOK CHANNEL

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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JSC DESIGNED	**JSC** DRAWN	**JGM** CHECKED

SCALE **HOR: 1"=900'**
VERT: 1"=9'

DATE **FEB 2011**

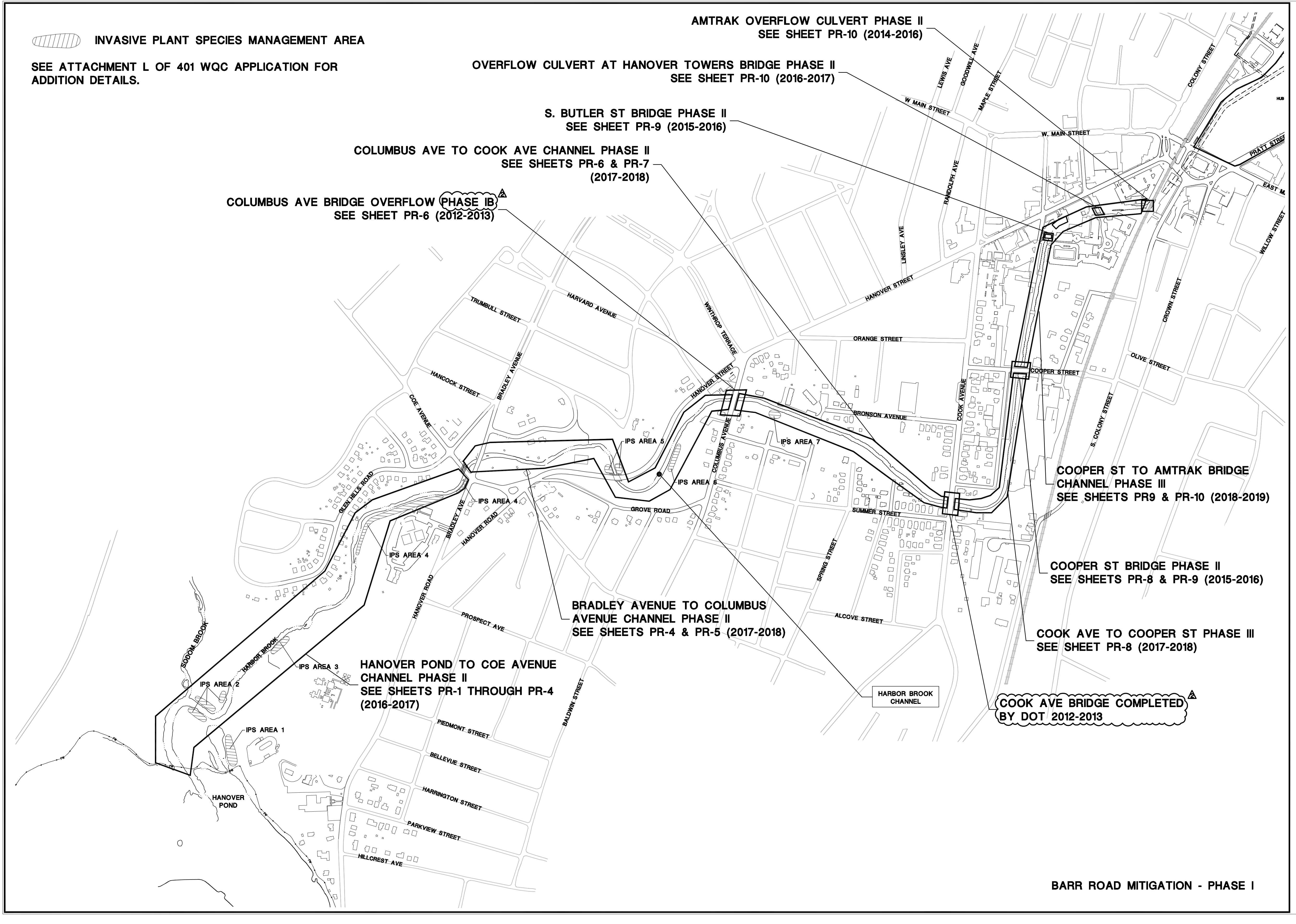
PROJECT NO. **1261-14-20**

SHEET NO. 22 OF 65

PROF-1
SHEET NO.

▨ INVASIVE PLANT SPECIES MANAGEMENT AREA

SEE ATTACHMENT L OF 401 WQC APPLICATION FOR ADDITION DETAILS.


W MAIN STREET
LEWIS AVE
GOODWILL AVE
MAPLE STREET
COLONY STREET
W. MAIN STREET
PRATT STREET
EAST M.
WILLOW STREET
RANDOLPH AVE
LINSLEY AVE
HANOVER STREET
CROWN STREET
ORANGE STREET
OLIVE STREET
TRUMBULL STREET
HARVARD AVENUE
WINTHROP TERRACE
COOPER STREET
HANCOCK STREET
BRADLEY AVENUE
HANOVER STREET
BRONSON AVENUE
COOK AVENUE
S. COLONY STREET
COE AVENUE
IPS AREA 5
IPS AREA 7
COLUMBUS AVENUE
IPS AREA 6
GLEN HILLS ROAD
IPS AREA 4
BRADLEY AVE
HANOVER ROAD
GROVE ROAD
SUMMER STREET
IPS AREA 4
SPRING STREET
HANOVER ROAD
PROSPECT AVE
ALCOVE STREET
SODOM BROOK
HARBOR BROOK
IPS AREA 3
IPS AREA 2
BALDWIN STREET
HARBOR BROOK CHANNEL
IPS AREA 1
PIEDMONT STREET
BELLEVUE STREET
HANOVER POND
HARRINGTON STREET
PARKVIEW STREET
HILLCREST AVE
HUB

AMTRAK OVERFLOW CULVERT PHASE II
SEE SHEET PR-10 (2014-2016)

OVERFLOW CULVERT AT HANOVER TOWERS BRIDGE PHASE II
SEE SHEET PR-10 (2016-2017)

S. BUTLER ST BRIDGE PHASE II
SEE SHEET PR-9 (2015-2016)

COLUMBUS AVE TO COOK AVE CHANNEL PHASE II
SEE SHEETS PR-6 & PR-7
(2017-2018)

COLUMBUS AVE BRIDGE OVERFLOW PHASE IB 2
SEE SHEET PR-6 (2012-2013)

COOPER ST TO AMTRAK BRIDGE
CHANNEL PHASE III
SEE SHEETS PR9 & PR-10 (2018-2019)

COOPER ST BRIDGE PHASE II
SEE SHEETS PR-8 & PR-9 (2015-2016)

BRADLEY AVENUE TO COLUMBUS
AVENUE CHANNEL PHASE II
SEE SHEETS PR-4 & PR-5 (2017-2018)

COOK AVE TO COOPER ST PHASE III
SEE SHEET PR-8 (2017-2018)

HANOVER POND TO COE AVENUE
CHANNEL PHASE II
SEE SHEETS PR-1 THROUGH PR-4
(2016-2017)

COOK AVE BRIDGE COMPLETED 2
BY DOT 2012-2013

BARR ROAD MITIGATION - PHASE I

N
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0 150' 300'

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PROPOSED CONSTRUCTION PHASING
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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DESIGNED	DRAWN	CHECKED

SCALE 1"=300'

DATE FEB 2011

PROJECT NO. 1261-14-20

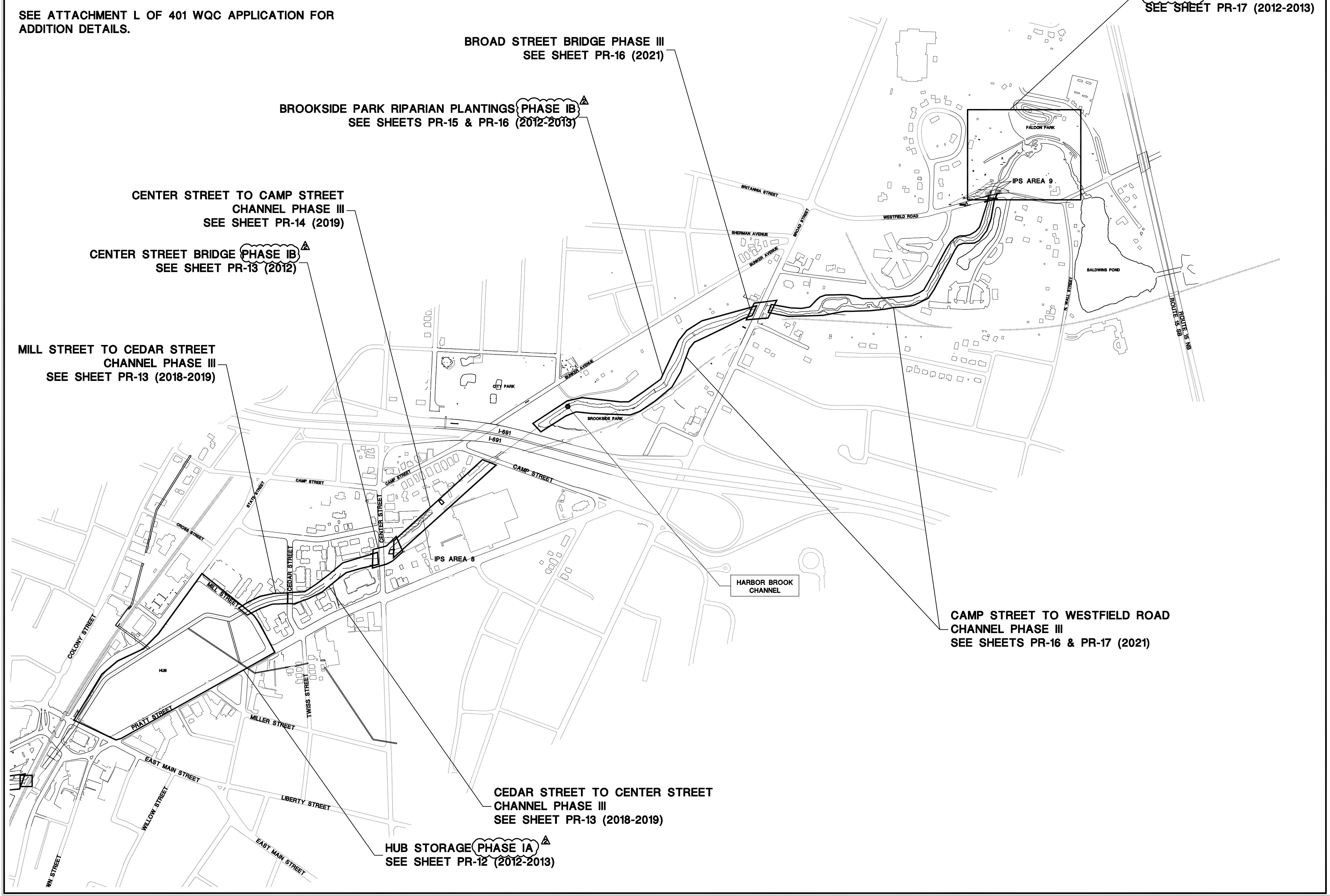
SHEET NO. 23 OF 65

PH-1
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-CONSTRUCTION-PHASING.DWG Layout Tab:PH-2
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 1:10pm

▨ INVASIVE PLANT SPECIES MANAGEMENT AREA

SEE ATTACHMENT L OF 401 WQC APPLICATION FOR ADDITION DETAILS.


FALCON PARK
IPS AREA 9
BALDWINS POND
ROUTE 15 NB
ROUTE 15 SB
N. WALL STREET
WESTFIELD ROAD
BRITANNIA STREET
BROAD STREET
SHERMAN AVENUE
BUNKER AVENUE
CITY PARK
BROOKSIDE PARK
I-691
I-691
CAMP STREET
CAMP STREET
CAMP STREET
STATE STREET
CROSS STREET
CENTER STREET
CEDAR STREET
MILL STREET
IPS AREA 8
HARBOR BROOK CHANNEL
COLONY STREET
HUB
PRATT STREET
MILLER STREET
TWISS STREET
EAST MAIN STREET
LIBERTY STREET
WILLOW STREET
EAST MAIN STREET
WN STREET

FALCON PARK STORAGE
PHASE IA 2
SEE SHEET PR-17 (2012-2013)

BROAD STREET BRIDGE PHASE III
SEE SHEET PR-16 (2021)

BROOKSIDE PARK RIPARIAN PLANTINGS PHASE IB 2
SEE SHEETS PR-15 & PR-16 (2012-2013)

CENTER STREET TO CAMP STREET
CHANNEL PHASE III
SEE SHEET PR-14 (2019)

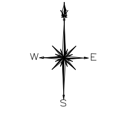
CENTER STREET BRIDGE PHASE IB 2
SEE SHEET PR-13 (2012)

MILL STREET TO CEDAR STREET
CHANNEL PHASE III
SEE SHEET PR-13 (2018-2019)

CAMP STREET TO WESTFIELD ROAD
CHANNEL PHASE III
SEE SHEETS PR-16 & PR-17 (2021)

CEDAR STREET TO CENTER STREET
CHANNEL PHASE III
SEE SHEET PR-13 (2018-2019)

HUB STORAGE PHASE IA 2
SEE SHEET PR-12 (2012-2013)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PROPOSED CONSTRUCTION PHASING

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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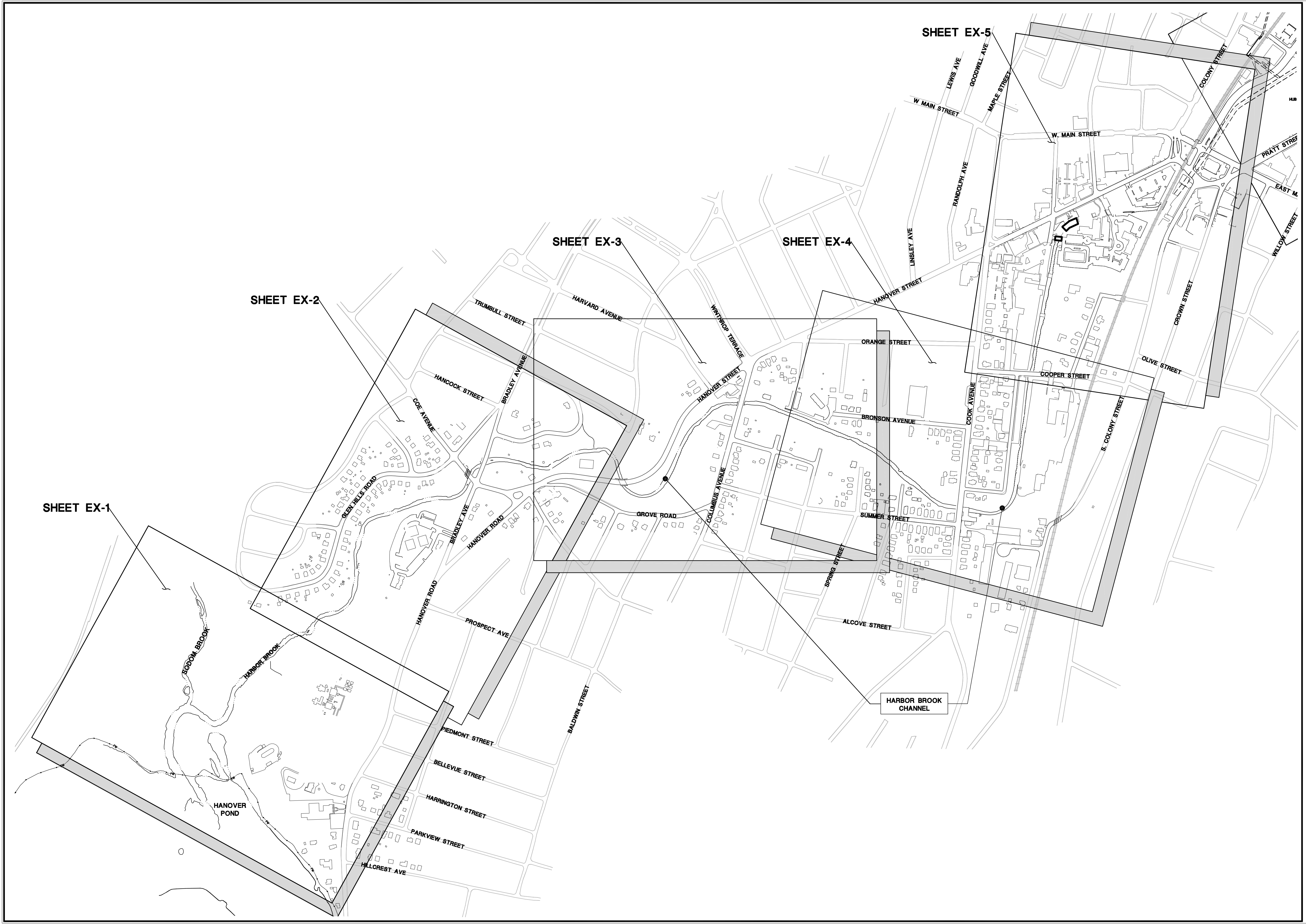
NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

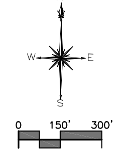
SCALE 1"=300'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 24 OF 65

PH-2
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-INDEX-EXISTING.DWG Layout Tab:IN-EX-1
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:28pm



SHEET EX-1
SHEET EX-2
SHEET EX-3
SHEET EX-4
SHEET EX-5
HARBOR BROOK CHANNEL
SODOM BROOK
HARBOR BROOK
HANOVER POND
GLEN HILLS ROAD
COE AVENUE
HANCOCK STREET
TRUMBULL STREET
BRADLEY AVENUE
BRADLEY AVE
HANOVER ROAD
PROSPECT AVE
HARVARD AVENUE
WINTHROP TERRACE
HANOVER STREET
GROVE ROAD
COLUMBUS AVENUE
ORANGE STREET
BRONSON AVENUE
SUMMER STREET
SPRING STREET
ALCOVE STREET
COOK AVENUE
COOPER STREET
S. COLONY STREET
OLIVE STREET
CROWN STREET
LINSLEY AVE
RANDOLPH AVE
LEWIS AVE
GOODWILL AVE
MAPLE STREET
W MAIN STREET
W. MAIN STREET
COLONY STREET
PRATT STREET
EAST MA
WILLOW STREET
HUB
BALDWIN STREET
PIEDMONT STREET
BELLEVUE STREET
HARRINGTON STREET
PARKVIEW STREET
HILLCREST AVE



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REVISIONS

1	03/02/2012
2	04/18/2012

INDEX - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

SCALE 1"=300'

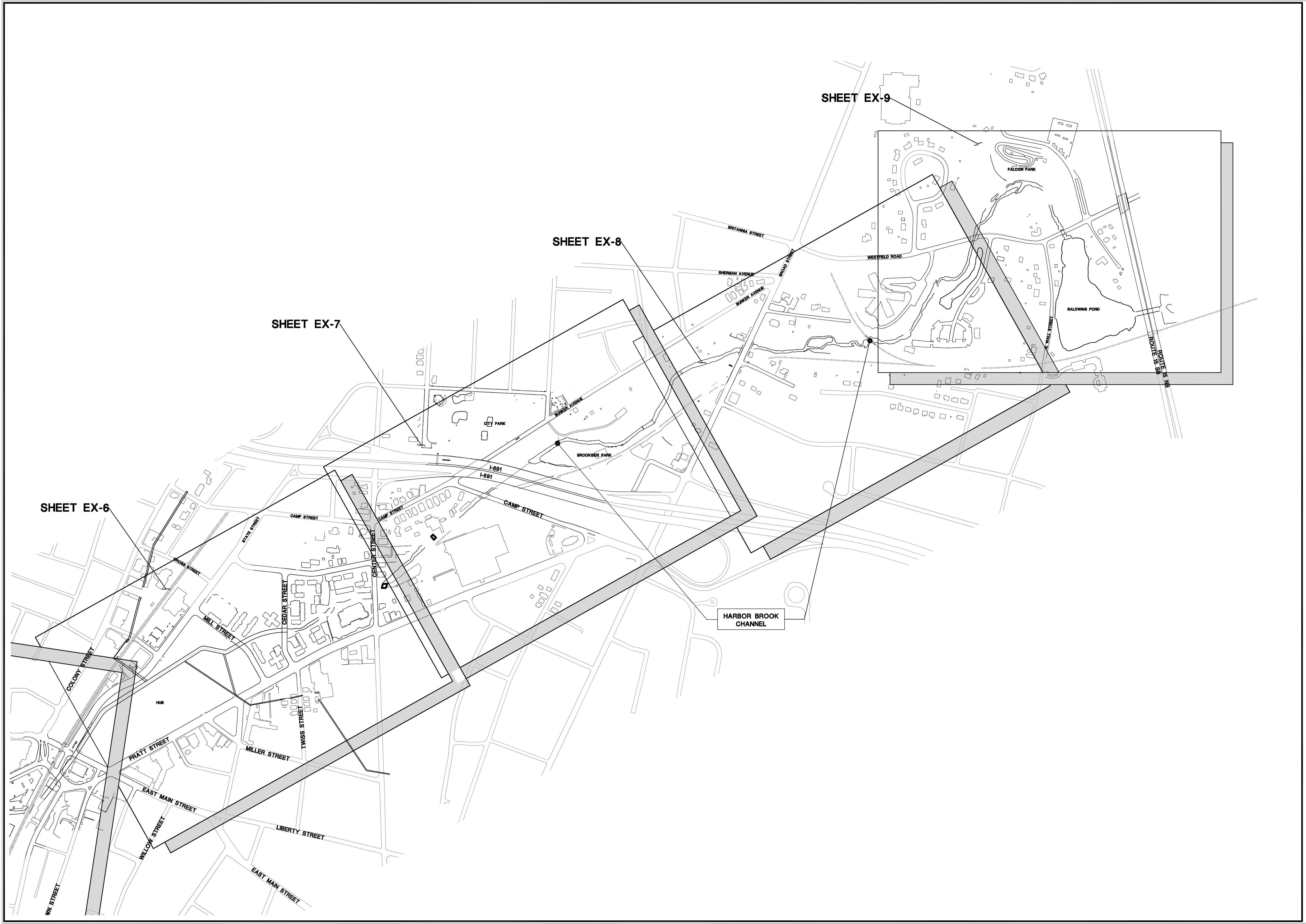
DATE FEB 2011

PROJECT NO. 1261-14-20

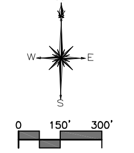
SHEET NO. INDEX – EXISTING CONDITIONS

IN-EX-1
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-INDEX-EXISTING.DWG Layout Tab:IN-EX-2
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:28pm



SHEET EX-9
FALCON PARK
SHEET EX-8
BRITANNIA STREET
WESTFIELD ROAD
SHERMAN AVENUE
BROAD STREET
BUNKER AVENUE
BALDWINS POND
WALL STREET
ROUTE 15 NB
ROUTE 15 SB
SHEET EX-7
CITY PARK
BUNKER AVENUE
BROOKSIDE PARK
I-691
I-691
CAMP STREET
SHEET EX-6
CAMP STREET
STATE STREET
CAMP STREET
CENTER STREET
CROSS STREET
CEDAR STREET
MILL STREET
HARBOR BROOK CHANNEL
COLONY STREET
HUB
TWISS STREET
PRATT STREET
MILLER STREET
EAST MAIN STREET
LIBERTY STREET
WILLOW STREET
EAST MAIN STREET
WN STREET



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W
E
S
0
150'
300'

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REVISIONS	
1	03/02/2012
2	04/18/2012

INDEX - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=300'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. INDEX – EXISTING CONDITIONS

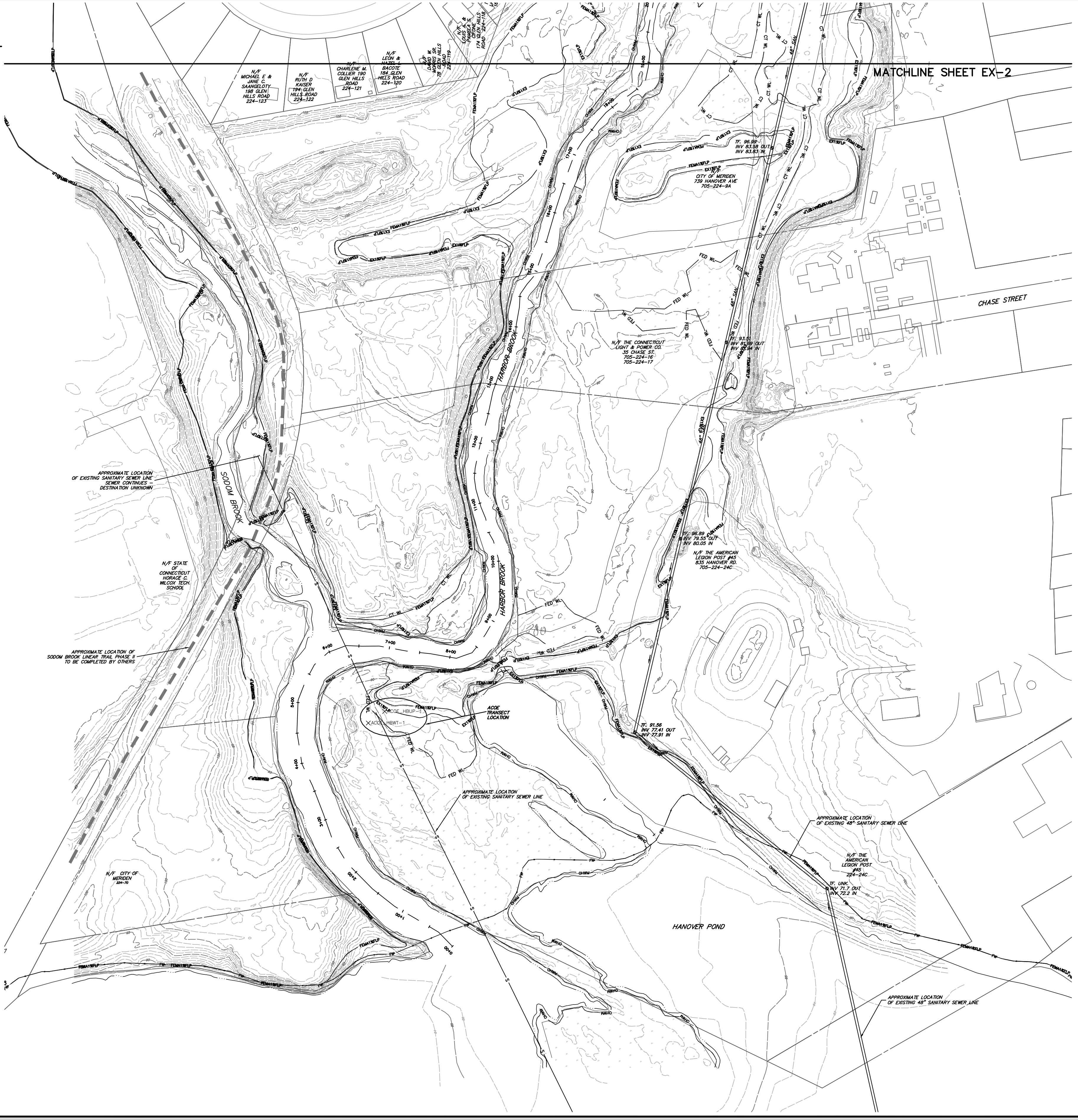
IN-EX-2
SHEET NO.

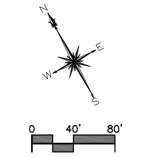
Drawing: H:\1261-14\DWG\CURRENT\HB-EXISTING.DWG Layout Tab:EX-1
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:37pm

LEGEND

EXISTING

— —	PROPERTY LINE
···	EDGE OF WATER
OHWM	ORDINARY HIGH WATER MARK
FED WL	FEDERAL WETLANDS
CT WL	STATE WETLANDS
EX1%FLP	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
FW	FEMA DELINEATED FLOODWAY
70	MAJOR CONTOUR
68	MINOR CONTOUR
⌒⌒⌒	TREE LINE
✳	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
Ⓢ	SANITARY SEWER W/MANHOLE
= □ =	STORM DRAIN W/CATCH BASIN
W	WATER MAIN
G	GAS MAIN
E	ELECTRIC LINE
TEL	TELEPHONE LINE
⊖	UTILITY POLE
○	TRAFFIC SIGN
=	EDGE OF PAVEMENT W/CURB
▭	RETAINING WALL
=	SIDEWALK
┼┼┼	RAILROAD TRACKS
▨	BEDROCK


MATCHLINE SHEET EX-2
N/F MICHAEL E & JANE C. SAANGELOTY 198 GLEN HILLS ROAD 224-123
N/F RUTH D KAISER 194 GLEN HILLS ROAD 224-122
N/F CHARLENE M. COLLIER 190 GLEN HILLS ROAD 224-121
N/F LEON & HAZEL L. BACOTE 184 GLEN HILLS ROAD 224-120
N/F DAVID W. MORRIS SR. 78 GLEN HILLS ROAD 224-119
N/F LOUIS A. & PAMELA S. CIFONE 174 GLEN HILLS ROAD 224-118
TF. 96.99
INV 83.58 OUT
INV 83.83 IN
N/F CITY OF MERIDEN 739 HANOVER AVE 705-224-9A
CHASE STREET
N/F THE CONNECTICUT LIGHT & POWER CO. 35 CHASE ST. 705-224-16 705-224-17
TF. 93.51
INV 81.69 OUT
INV 81.94 IN
48" SAN
HARBOR BROOK
SODOM BROOK
APPROXIMATE LOCATION OF EXISTING SANITARY SEWER LINE SEWER CONTINUES - DESTINATION UNKNOWN
N/F STATE OF CONNECTICUT HORACE C. WILCOX TECH. SCHOOL
TF. 96.89
INV 79.55 OUT
INV 80.05 IN
N/F THE AMERICAN LEGION POST #45 835 HANOVER RD. 705-224-24C
APPROXIMATE LOCATION OF SODOM BROOK LINEAR TRAIL PHASE II TO BE COMPLETED BY OTHERS
ACOE_HBUP-1
ACOE_HBWT-1
ACOE TRANSECT LOCATION
TF. 91.56
INV 77.41 OUT
INV 77.91 IN
APPROXIMATE LOCATION OF EXISTING SANITARY SEWER LINE
APPROXIMATE LOCATION OF EXISTING 48" SANITARY SEWER LINE
N/F THE AMERICAN LEGION POST #45 224-24C
TF. UNK.
INV 71.7 OUT
INV 72.2 IN
N/F CITY OF MERIDEN 224-70
HANOVER POND
APPROXIMATE LOCATION OF EXISTING 48" SANITARY SEWER LINE
OHWM
FED WL
CT WL
EX1%FLP
FEMA1%FLP
FW
S
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00



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1	03/02/2012
2	04/18/2012

SITE PLAN - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB DESIGNED	BAM DRAWN	JGM CHECKED

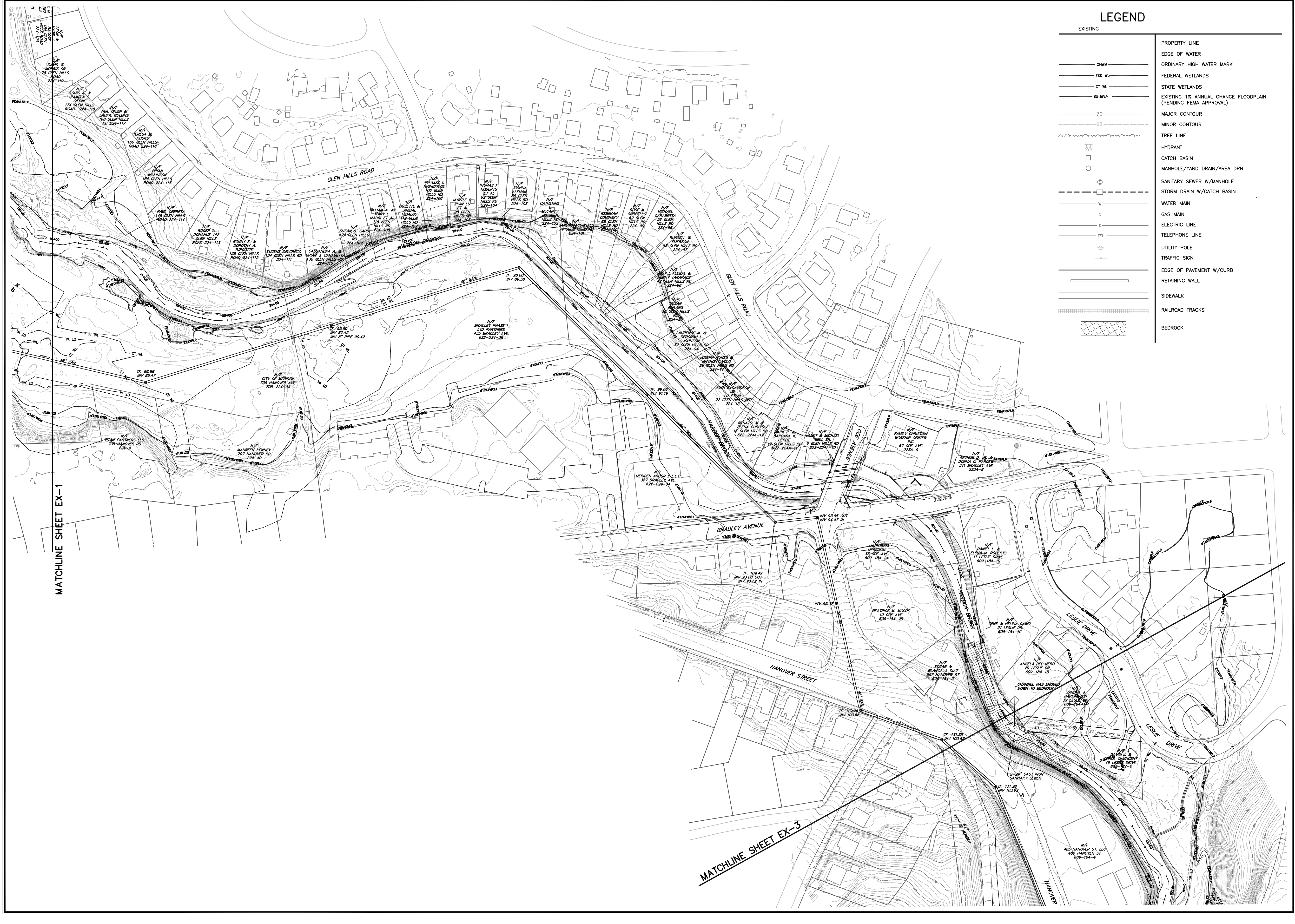
SCALE 1"=80'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 27 OF 65

EX-1
SHEET NO.


GLEN HILLS ROAD
HARBOR BROOK
BRADLEY AVENUE
HANOVER STREET
LESLIE DRIVE
COE AVENUE
HANOVER
48" SAN.
N/F BRADLEY PHASE I LTD PARTNERS 435 BRADLEY AVE. 622-224-38
N/F CITY OF MERIDEN 739 HANOVER AVE. 705-224-9A
N/F TITAN PARTNERS LLC 735 HANOVER RD 224-9
N/F MAUREEN KENNEY 707 HANOVER RD 224-40
N/F MERIDEN ARBOR II L.L.C. 387 BRADLEY AVE. 622-224-3A
N/F FAMILY CHRISTIAN WORSHIP CENTER INC. 67 COE AVE. 223A-9
N/F BEATRICE M. MOORE 15 COE AVE. 609-184-2B
N/F 485 HANOVER ST. LLC 485 HANOVER ST 609-184-4
CHANNEL HAS ERODED DOWN TO BEDROCK
2-24" CAST IRON SANITARY SEWER
MATCHLINE SHEET EX-1
MATCHLINE SHEET EX-3

LEGEND

EXISTING

— —	PROPERTY LINE
···	EDGE OF WATER
OHWM	ORDINARY HIGH WATER MARK
FED WL	FEDERAL WETLANDS
CT WL	STATE WETLANDS
EX1%FLP	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
70	MAJOR CONTOUR
68	MINOR CONTOUR
	TREE LINE
	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
S	SANITARY SEWER W/MANHOLE
□	STORM DRAIN W/CATCH BASIN
W	WATER MAIN
G	GAS MAIN
E	ELECTRIC LINE
TEL	TELEPHONE LINE
	UTILITY POLE
	TRAFFIC SIGN
	EDGE OF PAVEMENT W/CURB
	RETAINING WALL
	SIDEWALK
	RAILROAD TRACKS
▨	BEDROCK

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=80'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 28 OF 65

EX-2

SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-EXISTING.DWG Layout Tab:EX-3
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:37pm

LEGEND

EXISTING	
— — —	PROPERTY LINE
···	EDGE OF WATER
OHWM	ORDINARY HIGH WATER MARK
FED WL	FEDERAL WETLANDS
CT WL	STATE WETLANDS
EX1%FLP	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
70	MAJOR CONTOUR
68	MINOR CONTOUR
⌒⌒⌒	TREE LINE
☼	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
Ⓢ	SANITARY SEWER W/MANHOLE
═□═	STORM DRAIN W/CATCH BASIN
W	WATER MAIN
G	GAS MAIN
E	ELECTRIC LINE
TEL	TELEPHONE LINE
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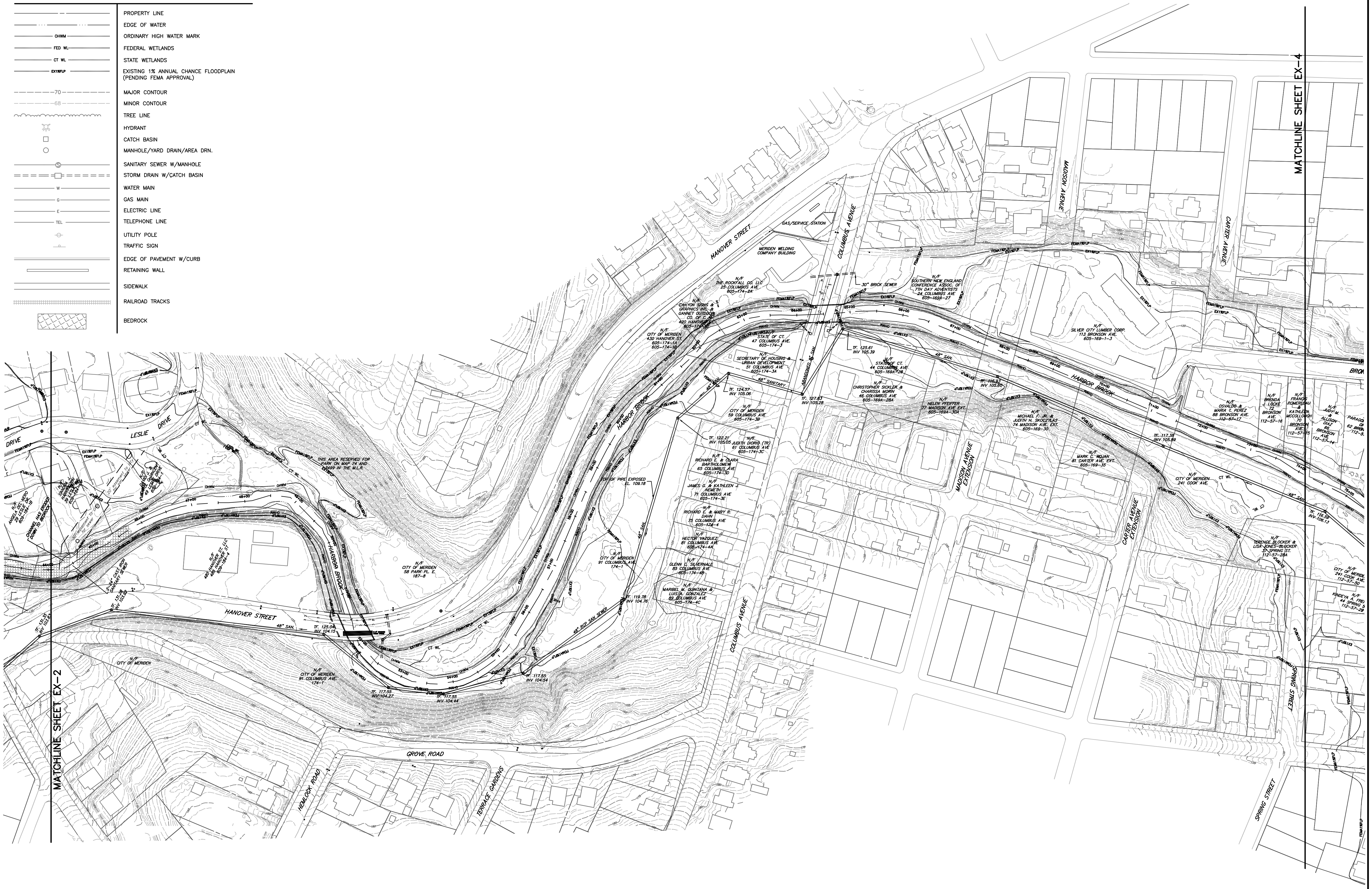
○	TRAFFIC SIGN
═	EDGE OF PAVEMENT W/CURB
▭	RETAINING WALL
═	SIDEWALK
┼┼┼	RAILROAD TRACKS
▨	BEDROCK


MATCHLINE SHEET EX-2
MATCHLINE SHEET EX-4
LESLIE DRIVE
DRIVE
N/F ANGELA DEL NERO 29 LESLIE DR. 609-184-1B
N/F SANDRA J. HARRINGTON 39 LESLIE DR. 609-184-
N/F DAVID J. & CAROL C. VINCENT 49 LESLIE DRIVE 609-184-1
CHANNEL HAS ERODED DOWN TO BEDROCK
20' easement to city for san sewer
30' easement to city for sewer
2-24" CAST IRON SANITARY SEWER
TF. 131.28 INV 103.92
TF. 131.35 INV 103.83
THIS AREA RESERVED FOR PARK ON MAP 74 AND 3499 IN THE M.L.R.
N/F 485 HANOVER ST. LLC 485 HANOVER ST 609-184-4
N/F CITY OF MERIDEN 58 PARK PL. E. 187-8
HARBOR BROOK
HANOVER STREET
48" SAN.
TF. 125.04 INV 104.15
N/F CITY OF MERIDEN
N/F CITY OF MERIDEN 91 COLUMBUS AVE. 174-1
TF. 117.55 INV 104.27
TF. 117.55 INV 104.44
TF. 117.55 INV 104.54
GROVE ROAD
HEMLOCK ROAD
TERRACE GARDENS
48" RCP SAN SEWER
TOP OF PIPE EXPOSED EL. 109.18
TF. 119.78 INV 104.76
48" SAN.
GAS/SERVICE STATION
MERIDEN WELDING COMPANY BUILDING
N/F THE ROCKFALL CO. LLC 25 COLUMBUS AVE 605-174-2A
N/F CANYON SIGNS & GRAPHICS INC. & GANNET OUTDOOR CO. OF C. 420 HANOVER ST. 605-174-
N/F CITY OF MERIDEN 430 HANOVER ST. 605-174-1A 605-174-1B
N/F STATE OF CT. 47 COLUMBUS AVE. 605-174-3
N/F SECRETARY OF HOUSING & URBAN DEVELOPMENT 51 COLUMBUS AVE 605-174-3A
48" SANITARY
TF. 124.57 INV 105.06
ABANDONED 8" SAN
TF. 127.83 INV 105.28
N/F CITY OF MERIDEN 59 COLUMBUS AVE 605-174-3B
TF. 122.21 INV 105.05
N/F JUDITH DIORIO (TR) 61 COLUMBUS AVE 605-174-3C
N/F RICHARD E. & CLARA BARTHOLOMEW 65 COLUMBUS AVE 605-174-3D
N/F JAMES G. & KATHLEEN J. NEMETH 71 COLUMBUS AVE 605-174-3E
N/F RICHARD E. & MARY R. DAHN 75 COLUMBUS AVE 605-174-4
N/F HECTOR VAZQUEZ 81 COLUMBUS AVE 605-174-4A
N/F GLENN C. SILVERNALE 85 COLUMBUS AVE 605-174-4B
N/F MARIBEL M. QUINTANA & LUIS A. GONZALEZ 89 COLUMBUS AVE 605-174-4C
COLUMBUS AVENUE
30" BRICK SEWER
N/F SOUTHERN NEW ENGLAND CONFERENCE ASSOC. OF 7TH DAY ADVENTISTS 24 COLUMBUS AVE 605-169A-27
TF. 125.61 INV 105.39
N/F STATE OF CT. 44 COLUMBUS AVE 605-169A-28
N/F CHRISTOPHER SICKLER & CHARISSA MORIN 46 COLUMBUS AVE 605-169A-28A
N/F HELEN PFEIFFER 77 MADISON AVE EXT. 605-169A-30A
48" SAN.
TF. 116.93 INV 105.60
MADISON AVENUE
MADISON AVENUE EXTENSION
N/F SILVER CITY LUMBER CORP. 113 BRONSON AVE. 605-169-1-3
N/F MICHAEL F. JR. & JUDITH H. SKOCZYLAS 74 MADISON AVE. EXT. 605-169-30
N/F MARK C. WOJAN 81 CARTER AVE. EXT. 605-169-35
TF. 117.38 INV 105.89
CARTER AVENUE
CARTER AVENUE EXTENSION
N/F CITY OF MERIDEN 241 COOK AVE.
N/F OSVALDO & MARIA T. PEREZ 88 BRONSON AVE. 112-57-17
N/F BRENDA J. LOCKE 72 BRONSON AVE. 112-57-16
N/F FRANCIS POMERLEAU & KATHLEEN MCCOLLOUGH 70 BRONSON AVE. 112-57-15
N/F JUDY M. & ALLISON DIAZ 66 BRONSON AVE. 112-57-14
PARAGO OF 62 BRON 112-5
BRON
TF. 116.59 INV 106.13
N/F TERENCE BLOCKER & LISA JONES-BLOCKER 37 SPRING ST. 112-57-28A
N/F CITY OF MERIDE 241 COOK AVE. 112-57-50
N/F KINDEYA A. FRE 44 SPRING S 112-57-29
SPRING STREET
OHWM
EX1%FLP
FEMA1%FLP
CT WL
FED WL
44+00
45+00
46+00
47+00
48+00
49+00
50+00
52+00
53+00
54+00
55+00
56+00
57+00
58+00
59+00
60+00
61+00
62+00
63+00
64+00
65+00
66+00
67+00
68+00
69+00
70+00
71+00
72+00
73+00
74+00
75+00
N
W
E
S
0
40'
80'

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1 03/02/2012
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MERIDEN, CONNECTICUT

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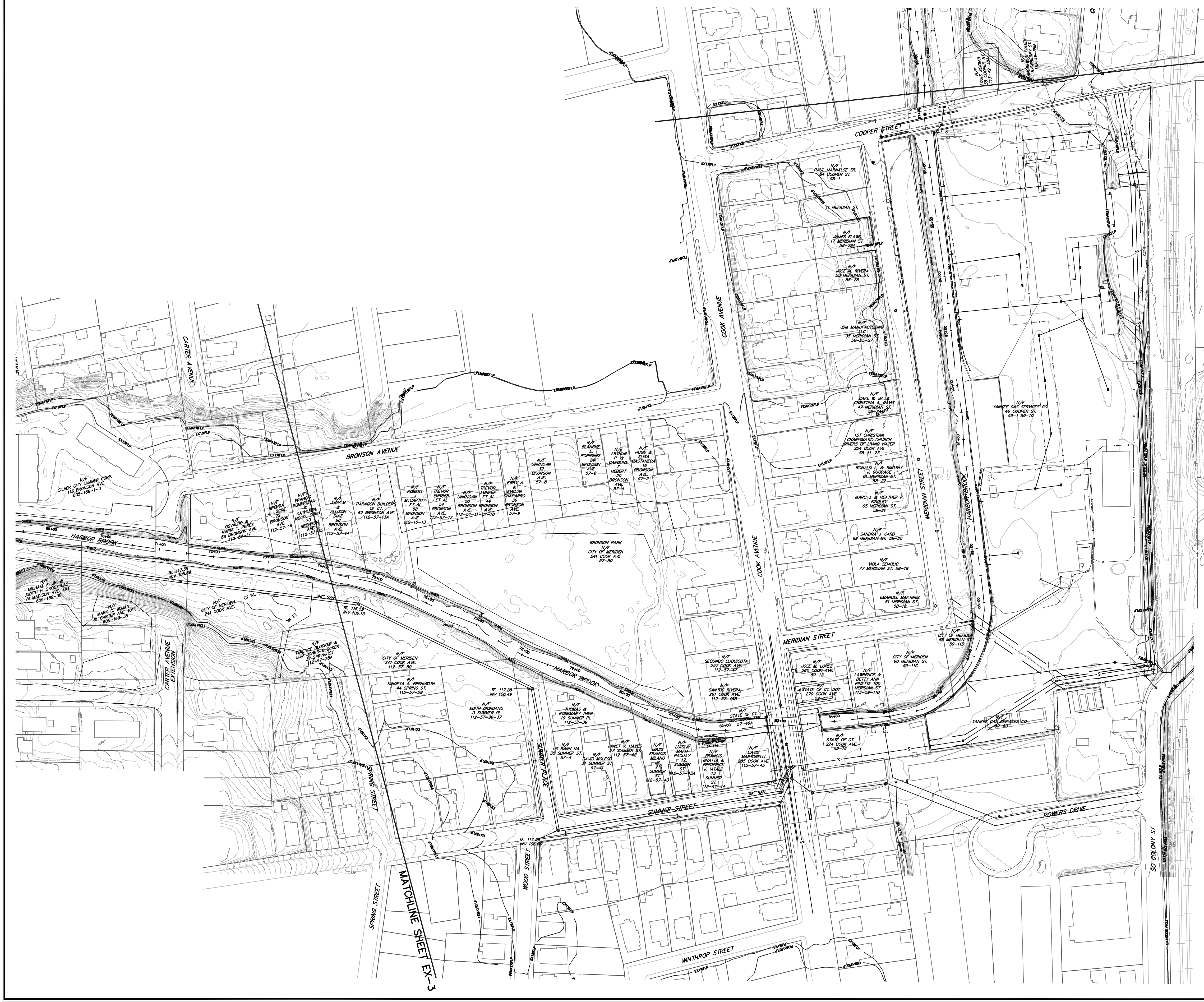
DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

SCALE 1"=80'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 29 OF 65

SHEET NO. **EX-3**


MATCHLINE SHEET EX-5
MATCHLINE SHEET EX-3
COOPER STREET
COOK AVENUE
MERIDIAN STREET
HARBOR BROOK
BRONSON AVENUE
CARTER AVENUE
CARTER AVENUE EXTENSION
SPRING STREET
SUMMER PLACE
SUMMER STREET
WOOD STREET
WINTHROP STREET
POWERS DRIVE
SO COLONY ST
BRONSON PARK N/F CITY OF MERIDEN 241 COOK AVE. 57-50
N/F YANKEE GAS SERVICES CO. 46 COOPER ST. 59-1 59-10
N/F SILVER CITY LUMBER CORP. 113 BRONSON AVE. 605-169-1-3
48" SAN

LEGEND

EXISTING

	PROPERTY LINE
	EDGE OF WATER
OHWM	ORDINARY HIGH WATER MARK
FED WL	FEDERAL WETLANDS
CT WL	STATE WETLANDS
EX1%FLP	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
70	MAJOR CONTOUR
68	MINOR CONTOUR
	TREE LINE
	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
Ⓢ	SANITARY SEWER W/MANHOLE
□	STORM DRAIN W/CATCH BASIN
W	WATER MAIN
G	GAS MAIN
E	ELECTRIC LINE
TEL	TELEPHONE LINE
	UTILITY POLE
	TRAFFIC SIGN
	EDGE OF PAVEMENT W/CURB
	RETAINING WALL
	SIDEWALK
	RAILROAD TRACKS
▨	BEDROCK

0 40' 80'

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=80'

DATE FEB 2011

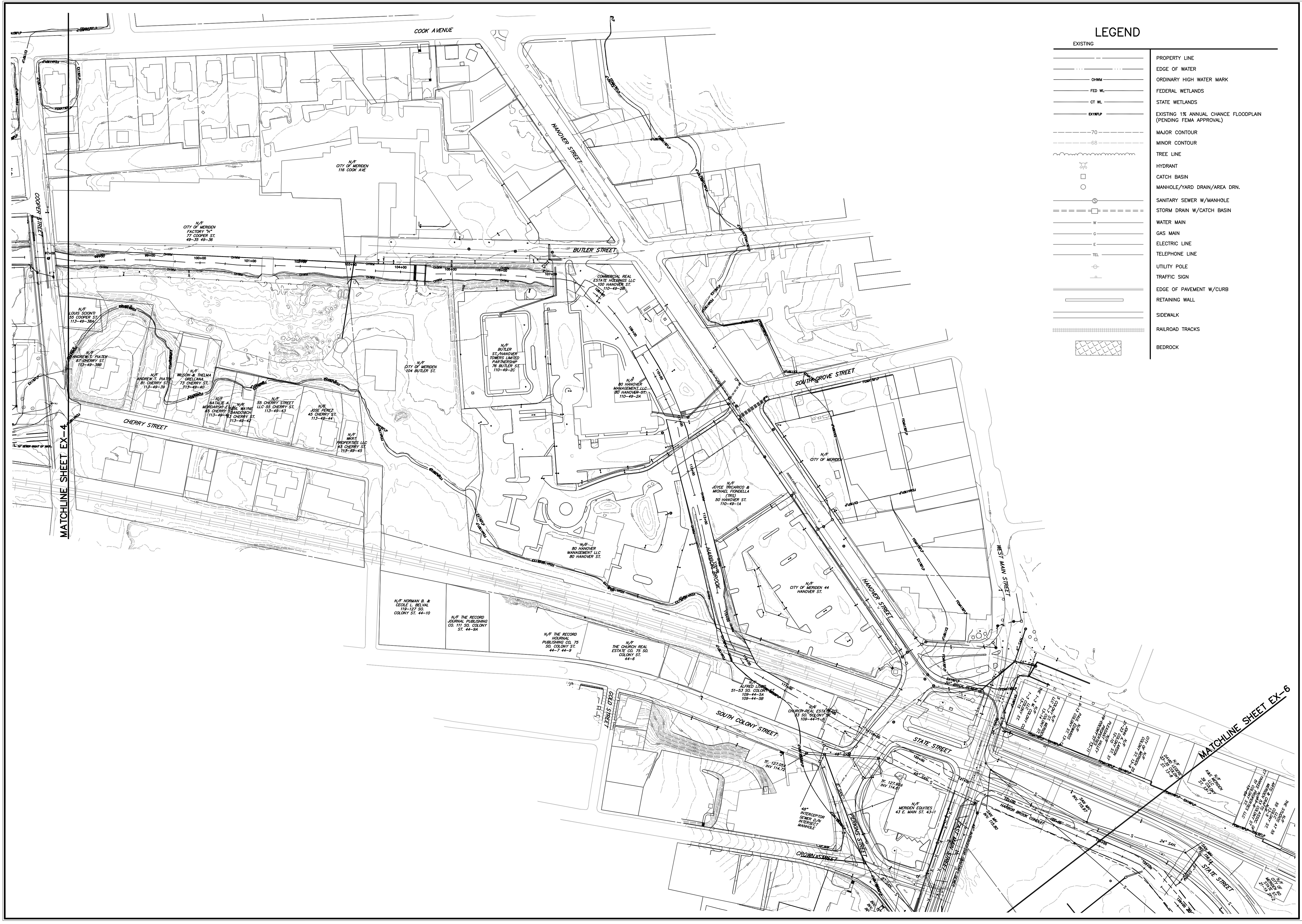
PROJECT NO. 1261-14-20

SHEET NO. 30 OF 65

EX-4

SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-EXISTING.DWG Layout Tab:EX-5
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:37pm


COOK AVENUE
COOPER STREET
HANOVER STREET
BUTLER STREET
CHERRY STREET
SOUTH GROVE STREET
WEST MAIN STREET
HARBOR BROOK
SOUTH COLONY STREET
GOLD STREET
STATE STREET
PERKINS STREET
CROWN STREET
EAST MAIN STREET
HARBOR BROOK CONDUIT
INTERCEPTOR SANITARY SEWER
MATCHLINE SHEET EX-4
MATCHLINE SHEET EX-6
N/F CITY OF MERIDEN 116 COOK AVE
N/F CITY OF MERIDEN FACTORY "H" 77 COOPER ST. 49-35 49-36
N/F LOUIS SCIONTI 55 COOPER ST. 113-49-38A
N/F ANDREW T. PIATEK 87 CHERRY ST. 113-49-38B
N/F ANDREW T. PIATEK 81 CHERRY ST. 113-49-39
N/F WILSON & THELMA ORELLANA 73 CHERRY ST. 113-49-40
N/F NATALIE A. MORDARSKI ET AL 65 CHERRY ST. 113-49-41
N/F PAUL WAYNE SANDOVICH 63 CHERRY ST. 113-49-42
N/F 55 CHERRY STREET LLC 55 CHERRY ST. 113-49-43
N/F JOSE PEREZ 45 CHERRY ST. 113-49-44
N/F WKRT PROPERTIES LLC 43 CHERRY ST. 113-49-45
N/F CITY OF MERIDEN 104 BUTLER ST.
N/F BUTLER ST./HANOVER TOWERS LIMITED PARTNERSHIP 76 BUTLER ST. 110-49-2C
N/F COMMERCIAL REAL ESTATE HOLDINGS LLC 100 HANOVER ST. 110-49-2B
N/F 80 HANOVER MANAGEMENT LLC 80 HANOVER ST. 110-49-2A
N/F 80 HANOVER MANAGEMENT LLC 80 HANOVER ST.
N/F JOYCE TRICARICO & MICHAEL FIONDELLA (TRS) 50 HANOVER ST. 110-49-1A
N/F CITY OF MERIDEN
N/F CITY OF MERIDEN 44 HANOVER ST.
N/F NORMAN B. & CECILE L. BELVAL 119-127 SO. COLONY ST. 44-10
N/F THE RECORD JOURNAL PUBLISHING CO. 111 SO. COLONY ST. 44-9A
N/F THE RECORD HOURNAL PUBLISHING CO, 75 SO. COLONY ST. 44-7 44-9
N/F THE CHURCH REAL ESTATE CO. 75 SO. COLONY ST. 44-6
N/F ALFRED LISGO 51-53 SO. COLONY ST 109-44-5A 109-44-5B
N/F CHURCH REAL ESTATE CO. 33 SO. COLONY ST 109-44-1-6
N/F MERIDEN EQUITIES 43 E. MAIN ST. 43-1
N/F THE 1-3 M. COLONY LLC 1-3 COLONY ST. 13-15
N/F MERIDEN LLC 5-7 COLONY ST. 13-14
N/F PAUL EDWARDS 9-13 COLONY ST. 13-12
N/F PLEASANT VALLEY PROPERTIES 19 COLONY ST 13-11
N/F JOHN A. LARSON 21-23 COLONY ST. 12-10
N/F CITY OF MERIDEN 25 COLONY ST. 13-9
N/F DAVID LEGERE 33-35 COLONY ST. 13-8
N/F K&S MERIDEN 39 LLC 39 COLONY ST. 13-7
N/F CT YANKEE PROPERTIES LLC 51 COLONY ST. 13-6A
N/F ARTS & CRAFTS ASSOC. OF MERIDEN 53 COLONY ST. 13-6
N/F THE STUDIOS AT 55 LLC 55 COLONY ST. 13-5
N/F CITY OF MERIDEN 60 STATE ST. 21-1A 21-2
TF. 127.05± INV 114.72
TF. 127.95± INV 114.61
48" INTERCEPTOR SEWER D/N INTERSECT MANHOLE
48" SAN.
8" SAN.
15" SAN.
24" SAN.
30" BRICK SEWER
SAN MH INV. 115.80
SAN MH INV. 115.97
SAN MH INV. 116.11
15' SEWER RIGHT OF WAY
97+00
98+00
99+00
100+00
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00
120+00
121+00
122+00
123+00
124+00
125+00
126+00
OHWM
EX1%FLP
FEMA1%FLP
115
120
125
130
135
140
145
150
155

LEGEND

EXISTING

— — —	PROPERTY LINE
···	EDGE OF WATER
OHWM	ORDINARY HIGH WATER MARK
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CT WL	STATE WETLANDS
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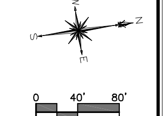
☐	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
Ⓢ	SANITARY SEWER W/MANHOLE
= ☐ =	STORM DRAIN W/CATCH BASIN
W	WATER MAIN
G	GAS MAIN
E	ELECTRIC LINE
TEL	TELEPHONE LINE
⊖	UTILITY POLE
o	TRAFFIC SIGN
═	EDGE OF PAVEMENT W/CURB
▭	RETAINING WALL
═	SIDEWALK
++++	RAILROAD TRACKS
▨	BEDROCK



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MERIDEN, CONNECTICUT

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

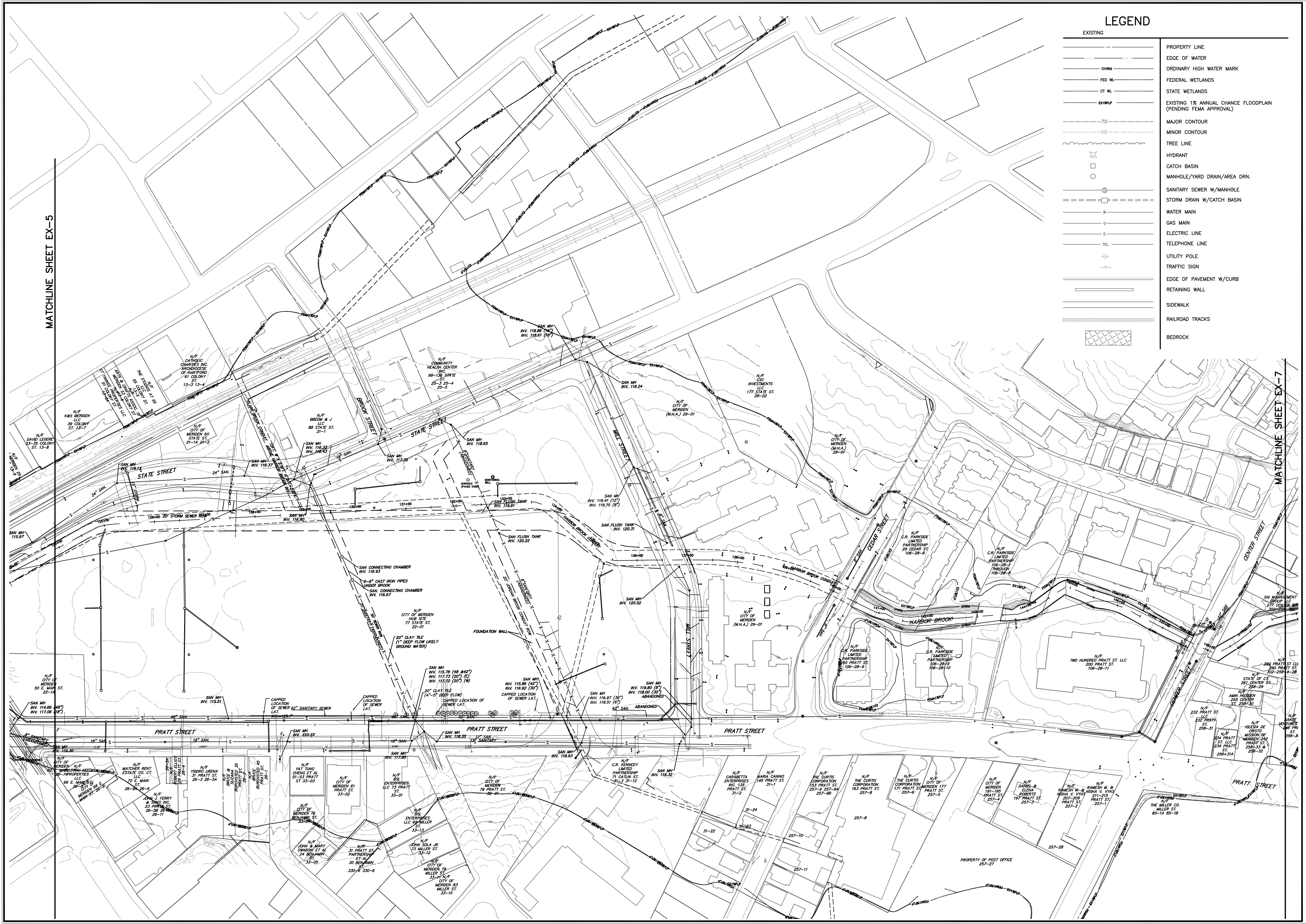
SCALE 1"=80'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 31 OF 65

EX-5
SHEET NO.


MATCHLINE SHEET EX-5
MATCHLINE SHEET EX-7
STATE STREET
BROOK STREET
MILL STREET
CEDAR STREET
CENTER STREET
PRATT STREET
HARBOR BROOK
HARBOR BROOK CONDUIT
20" STORM SEWER
24" SAN.
42" SAN.
18" SAN.
12" SANITARY
N/F CITY OF MERIDEN HUB SITE 77 STATE ST. 22-01
N/F CITY OF MERIDEN (M.H.A.) 29-01
N/F CSC INVESTMENTS LLC 177 STATE ST. 29-02
N/F COMMUNITY HEALTH CENTER INC. 98-136 STATE ST. 25-3 25-4 25-5
N/F BBEDM & J LLC 88 STATE ST. 21-1
N/F CATHOLIC CHARITIES INC. ARCHDIOCESE OF HARTFORD 61 COLONY ST. 13-3 13-1
N/F K&S MERIDEN LLC 39 COLONY ST. 13-7
N/F DAVID LEGERE 33-35 COLONY ST. 13-8
N/F CITY OF MERIDEN 60 STATE ST. 21-1A 21-2
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 29 CEDAR ST. 106-28-8
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 60 PRATT ST. 106-28-9
N/F TWO HUNDRED PRATT ST. LLC 200 PRATT ST. 106-28-11
N/F CITY OF MERIDEN 50 E. MAIN ST. 22-1A
N/F CITY OF MERIDEN 79 PRATT ST.
N/F C.R. KENNEDY LIMITED PARTNERSHIP 71 CATLIN ST. 31-1 31-12
N/F THE CURTIS CORPORATION 163 PRATT ST. 257-8
PROPERTY OF POST OFFICE 257-27
N/F THE MILLER CO. MILLER ST. 85-1A 85-18
SAN CONNECTING CHAMBER INV. 116.93
6-8" CAST IRON PIPES UNDER BROOK
SAN. CONNECTING CHAMBER INV. 116.97
20" CLAY TILE (1" DEEP FLOW LIKELY GROUND WATER)
FOUNDATION WALL
SAN FLUSH TANK INV. 119.61
SAN FLUSH TANK INV. 120.22
SAN FLUSH TANK INV. 120.31
CAPPED LOCATION OF SEWER 42" SANITARY SEWER
CAPPED LOCATION OF SEWER LAT.
ABANDONED

LEGEND

EXISTING

——— — ———	PROPERTY LINE
——— · · · ———	EDGE OF WATER
——— OHWM ———	ORDINARY HIGH WATER MARK
——— FED WL ———	FEDERAL WETLANDS
——— CT WL ———	STATE WETLANDS
——— EX1%FLP ———	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
– – – 70 – – –	MAJOR CONTOUR
– – – 68 – – –	MINOR CONTOUR
	TREE LINE
	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
——— Ⓢ ———	SANITARY SEWER W/MANHOLE
= = = □ = = =	STORM DRAIN W/CATCH BASIN
——— W ———	WATER MAIN
——— G ———	GAS MAIN
——— E ———	ELECTRIC LINE
——— TEL ———	TELEPHONE LINE
	UTILITY POLE
	TRAFFIC SIGN
	EDGE OF PAVEMENT W/CURB
	RETAINING WALL
	SIDEWALK
	RAILROAD TRACKS
▨	BEDROCK

0 40' 80'

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REVISIONS

1 03/02/2012
2 04/18/2012

SITE PLAN - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

SCALE 1"=80'

DATE FEB 2011

PROJECT NO. 1261-14-20

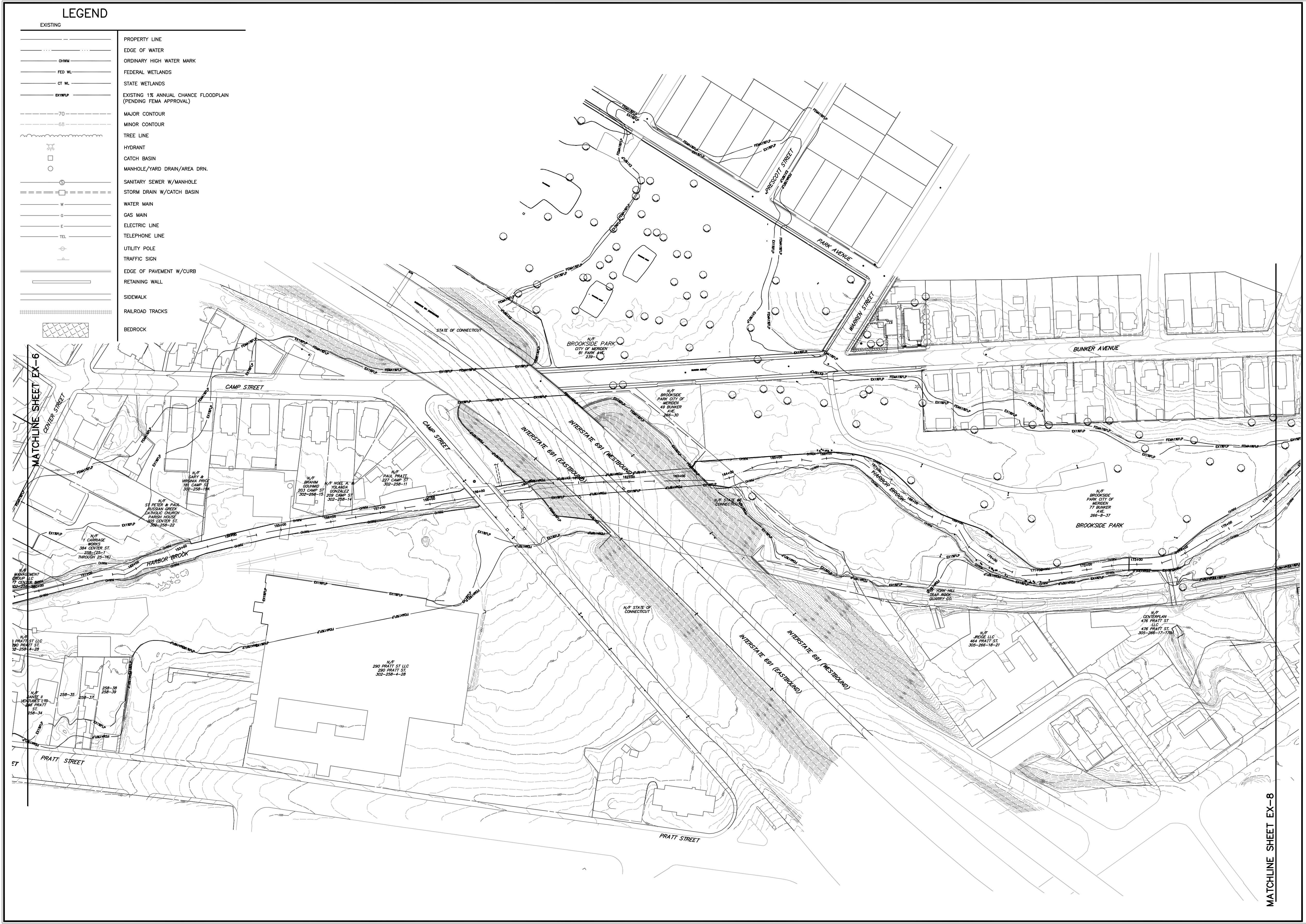
SHEET NO. 32 OF 65

SHEET NO. EX-6

LEGEND

EXISTING

	PROPERTY LINE
	EDGE OF WATER
OHWM	ORDINARY HIGH WATER MARK
FED WL	FEDERAL WETLANDS
CT WL	STATE WETLANDS
EX1%FLP	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
70	MAJOR CONTOUR
68	MINOR CONTOUR
	TREE LINE
	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
S	SANITARY SEWER W/MANHOLE
	STORM DRAIN W/CATCH BASIN
W	WATER MAIN
G	GAS MAIN
E	ELECTRIC LINE
TEL	TELEPHONE LINE
	UTILITY POLE
	TRAFFIC SIGN
	EDGE OF PAVEMENT W/CURB
	RETAINING WALL
	SIDEWALK
	RAILROAD TRACKS
▨	BEDROCK


MATCHLINE SHEET EX-6
MATCHLINE SHEET EX-8
CENTER STREET
CAMP STREET
PRESCOTT STREET
PARK AVENUE
WARREN STREET
BUNKER AVENUE
PRATT STREET
HARBOR BROOK
INTERSTATE 691 (EASTBOUND)
INTERSTATE 691 (WESTBOUND)
STATE OF CONNECTICUT
N/F BROOKSIDE PARK CITY OF MERIDEN 81 PARK AVE. 239-
N/F BROOKSIDE PARK CITY OF MERIDEN 49 BUNKER AVE. 266-30
N/F BROOKSIDE PARK CITY OF MERIDEN 77 BUNKER AVE. 266-8-37
BROOKSIDE PARK
N/F GARY & VIRGINIA PRICE 181 CAMP ST 302-258-19A
N/F BRAHIM GOUHMID 203 CAMP ST 302-258-15
N/F NOEL A. & YOLANDA GONZALEZ 209 CAMP ST 302-258-14
N/F PAUL PRATT 227 CAMP ST 302-258-11
N/F ST PETER & PAUL RUSSIAN GREEK CATHOLIC CHURCH PARISH HOUSE 305 CENTER ST. 302-258-22
N/F CARRIAGE WORKS 384 CENTER ST. 258-(25-1 THROUGH 25-76)
N/F MANAGEMENT GROUP LLC 77 CENTER ST.
N/F STATE OF CONNECTICUT
N/F STATE OF CONNECTICUT
N/F YORK HILL TRAP ROCK QUARRY CO.
N/F JRIDGE LLC 464 PRATT ST. 305-266-18-21
N/F CENTERPLAN 476 PRATT ST LLC 476 PRATT ST. 305-266-17-17A
N/F 290 PRATT ST LLC 290 PRATT ST. 302-258-4-28
N/F PRATT ST LLC 290 PRATT ST. 302-258-4-28
N/F DANTE II VENTURES LTD 246 PRATT ST. 258-34
258-35
258-37
258-38
258-39
FEMA1%FLP
EX1%FLP
OHWM
153+00
154+00
155+00
156+00
157+00
158+00
159+00
163+00
164+00
165+00
170+00
171+00
172+00
173+00
0 40' 80'

SITE PLAN - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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REVISIONS

1	03/02/2012
2	04/18/2012

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NEB DESIGNED	BAM DRAWN	JGM CHECKED

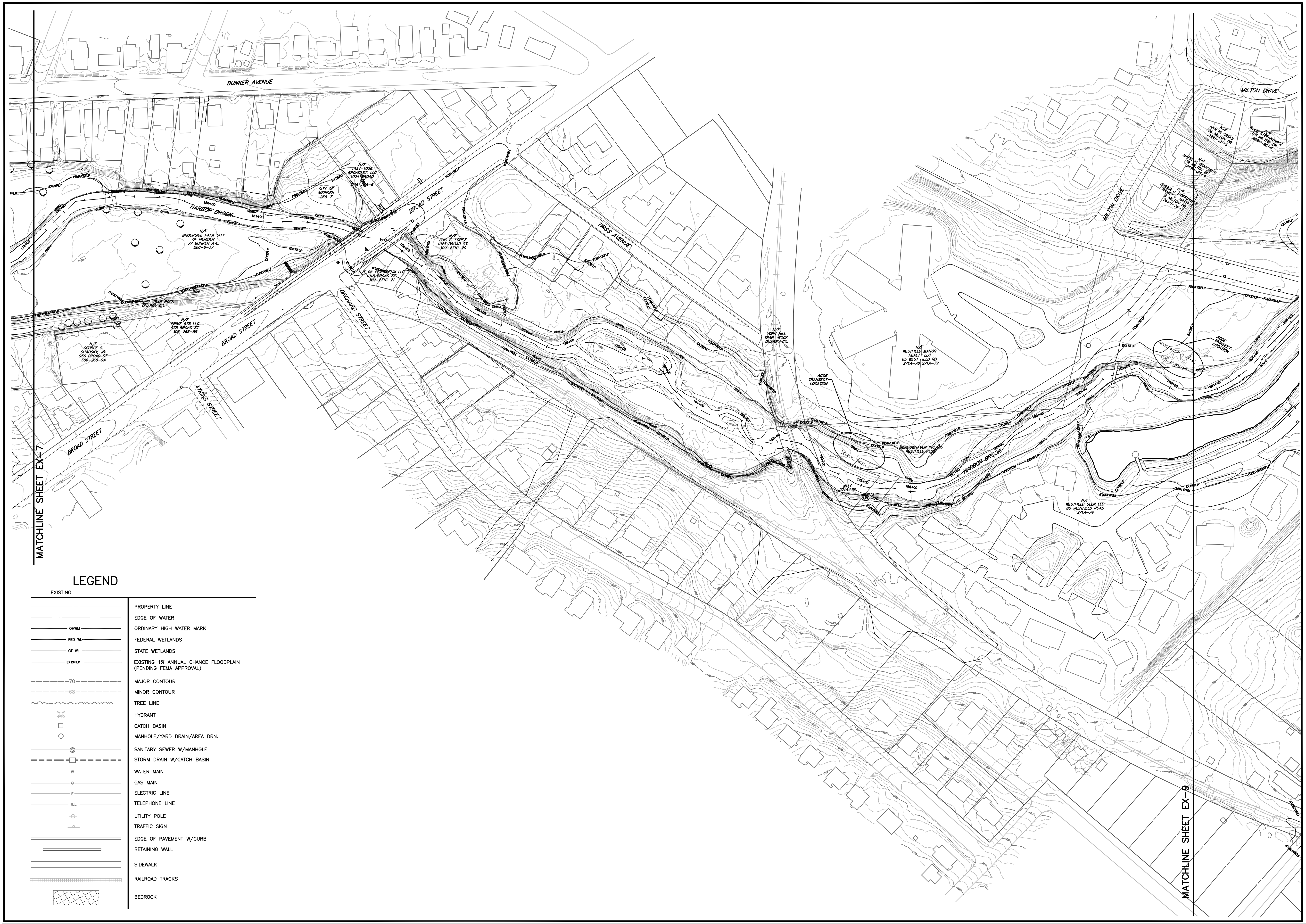
SCALE 1"=80'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 33 OF 65

EX-7
SHEET NO.


MATCHLINE SHEET EX-7
MATCHLINE SHEET EX-9
BUNKER AVENUE
BROAD STREET
BROAD STREET
BROAD STREET
ORCHARD STREET
ATKINS STREET
TWISS AVENUE
MILTON DRIVE
MILTON DRIVE
HARBOR BROOK
HARBOR BROOK
N/F
1024–1026
BROAD ST. LLC
1024 BROAD
306-266-6
CITY OF
MERIDEN
266-7
N/F
BROOKSIDE PARK CITY
OF MERIDEN
77 BUNKER AVE.
266-8-37
YORK HILL TRAP ROCK
QUARRY CO.
N/F
PRIME 978 LLC
978 BROAD ST.
306-266-8B
N/F
GEORGE S.
CHAOSKY, JR.
956 BROAD ST.
306-266-9A
N/F
LUIS F. LOPEZ
1025 BROAD ST.
309-271C-20
N/F PK PETROLEUM LLC
1015 BROAD ST
309-271C-21
N/F
YORK HILL
TRAP ROCK
QUARRY CO.
N/F
WESTFIELD MANOR
REALTY LLC
65 WEST FIELD RD.
271A-78 271A-79
ACOE
TRANSECT
LOCATION
ACOE_TWUP-1
ACOE_TWWT-1
MEADOWHAVEN INC. 65
WESTFIELD ROAD
#114
271A-76
#112
271A-75
N/F
WESTFIELD GLEN LLC
85 WESTFIELD ROAD
271A-74
N/F
ANN M. GIBAS
126 MILTON DR
269H-26-5
N/F
ROSE STEFANOWICZ
118 MILTON DR
269H-26-6
N/F
MARIE H. BUCCHIERI
19 MILTON DR
269H-26-4
N/F
SHEILA J. HOFFMAN &
NANCY L. HARHUT
9 MILTON DR
269H-26-3
ACOE
TRANSECT
LOCATION
ACOE_WCUP-1
ACOE_WCWT-1
177+00
178+00
179+00
180+00
181+00
182+00
183+00
184+00
185+00
186+00
187+00
188+00
189+00
190+00
192+00
193+00
194+00
195+00
196+00
197+00
198+00
199+00
200+00
201+00
202+00
203+00
204+00
205+00
OHWM
FEMA1%FLP
EX1%FLP
150
155
160
165
170
175
180
185
190
195
200
205
210
215
220
225
N
S
E
W
0
40'
80'

LEGEND

EXISTING

——— — ———	PROPERTY LINE
——— · · · ——— · · · ———	EDGE OF WATER
——— OHWM ———	ORDINARY HIGH WATER MARK
——— FED WL ———	FEDERAL WETLANDS
——— CT WL ———	STATE WETLANDS
——— EX1%FLP ———	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
— — — —70— — — —	MAJOR CONTOUR
— — — —68— — — —	MINOR CONTOUR
⌒⌒⌒⌒⌒⌒	TREE LINE
✲	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
———Ⓢ———	SANITARY SEWER W/MANHOLE
= = = □ = = =	STORM DRAIN W/CATCH BASIN
——— W ———	WATER MAIN
——— G ———	GAS MAIN
——— E ———	ELECTRIC LINE
——— TEL ———	TELEPHONE LINE
⊖	UTILITY POLE
⚲	TRAFFIC SIGN
═══	EDGE OF PAVEMENT W/CURB
▭	RETAINING WALL
═══	SIDEWALK
┼┼┼┼┼┼	RAILROAD TRACKS
▨	BEDROCK

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REVISIONS

1	03/02/2012
2	04/18/2012

SITE PLAN - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=80'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 34 OF 65

EX-8

SHEET NO.

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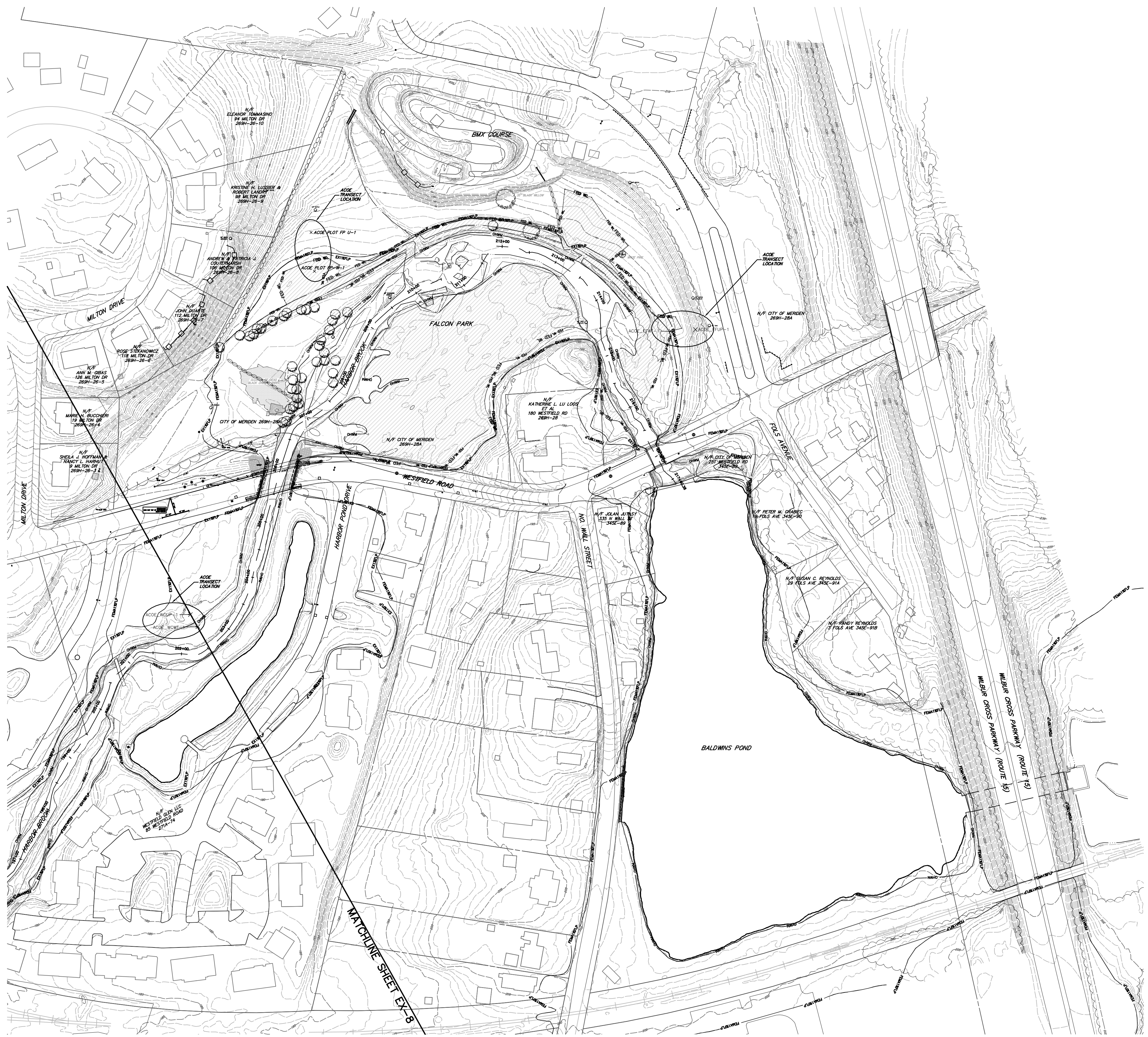
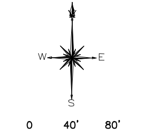
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:37pm


N/F
ELEANOR TOMMASINO
94 MILTON DR
269H-26-10
N/F
KRISTINE H. LUSSIER &
ROBERT LANDRY
98 MILTON DR
269H-26-9
N/F
ANDREW & PATRICIA J.
COUTERMARSH
106 MILTON DR
269H-26-8
N/F
JOHN DUARTE
112 MILTON DR
269H-26-7
N/F
ROSE STEFANOWICZ
118 MILTON DR
269H-26-6
N/F
ANN M. GIBAS
126 MILTON DR
269H-26-5
N/F
MARIE H. BUCCHIERI
19 MILTON DR
269H-26-4
N/F
SHEILA J. HOFFMAN &
NANCY L. HARHUT
9 MILTON DR
269H-26-3
MILTON DRIVE
MILTON DRIVE
BMX COURSE
ACOE TRANSECT LOCATION
ACOE PLOT FP U-1
ACOE PLOT FP-W-1
CITY OF MERIDEN 269H-28A
FALCON PARK
HARBOR BROOK
N/F CITY OF MERIDEN
269H-28A
N/F
KATHERINE L. LU LOOS
ET AL
180 WESTFIELD RD
269H-28
ACOE TRANSECT LOCATION
ACOE_EFWT-1
ACOE_EFUP-1
N/F CITY OF MERIDEN
269H-28A
WESTFIELD ROAD
FOLS AVENUE
N/F CITY OF MERIDEN
251 WESTFIELD RD
345E-89
HARBOR POND DRIVE
NO. WALL STREET
N/F JOLAN JUTASY
335 N WALL ST
345E-89
N/F PETER M. GRABIEC
19 FOLS AVE 345E-90
N/F SUSAN C. REYNOLDS
29 FOLS AVE 345E-91A
N/F RANDY REYNOLDS
3 FOLS AVE 345E-91B
ACOE TRANSECT LOCATION
ACOE_WCUP-1
ACOE_WCWT-1
BALDWINS POND
WILBUR CROSS PARKWAY (ROUTE 15)
WILBUR CROSS PARKWAY (ROUTE 15)
HARBOR BROOK
N/F
WESTFIELD GLEN LLC
85 WESTFIELD ROAD
271A-74
MATCHLINE SHEET EX-8
OHWM
FED WL
EX1%FLP
FEMA1%FLP
197+00
198+00
199+00
200+00
201+00
202+00
203+00
204+00
205+00
206+00
207+00
208+00
209+00
210+00
211+00
212+00
213+00
214+00
215+00
216+00
217+40.38

LEGEND

EXISTING

——— — ———	PROPERTY LINE
——— · · · ———	EDGE OF WATER
——— OHWM ———	ORDINARY HIGH WATER MARK
——— FED WL ———	FEDERAL WETLANDS
——— CT WL ———	STATE WETLANDS
——— EX1%FLP ———	EXISTING 1% ANNUAL CHANCE FLOODPLAIN (PENDING FEMA APPROVAL)
— — —70— — —	MAJOR CONTOUR
— — —68— — —	MINOR CONTOUR
⌒⌒⌒⌒⌒	TREE LINE
✲	HYDRANT
□	CATCH BASIN
○	MANHOLE/YARD DRAIN/AREA DRN.
———Ⓢ———	SANITARY SEWER W/MANHOLE
═ ═ ═□═ ═ ═	STORM DRAIN W/CATCH BASIN
——— W ———	WATER MAIN
——— G ———	GAS MAIN
——— E ———	ELECTRIC LINE
——— TEL ———	TELEPHONE LINE
⊖	UTILITY POLE
⊸	TRAFFIC SIGN
═══════	EDGE OF PAVEMENT W/CURB
▭	RETAINING WALL
═══════	SIDEWALK
┼┼┼┼┼┼┼	RAILROAD TRACKS
▨	BEDROCK



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REVISIONS

1	03/02/2012
2	04/18/2012

SITE PLAN - EXISTING CONDITIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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DESIGNED	DRAWN	CHECKED

SCALE 1"=80'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 35 OF 65

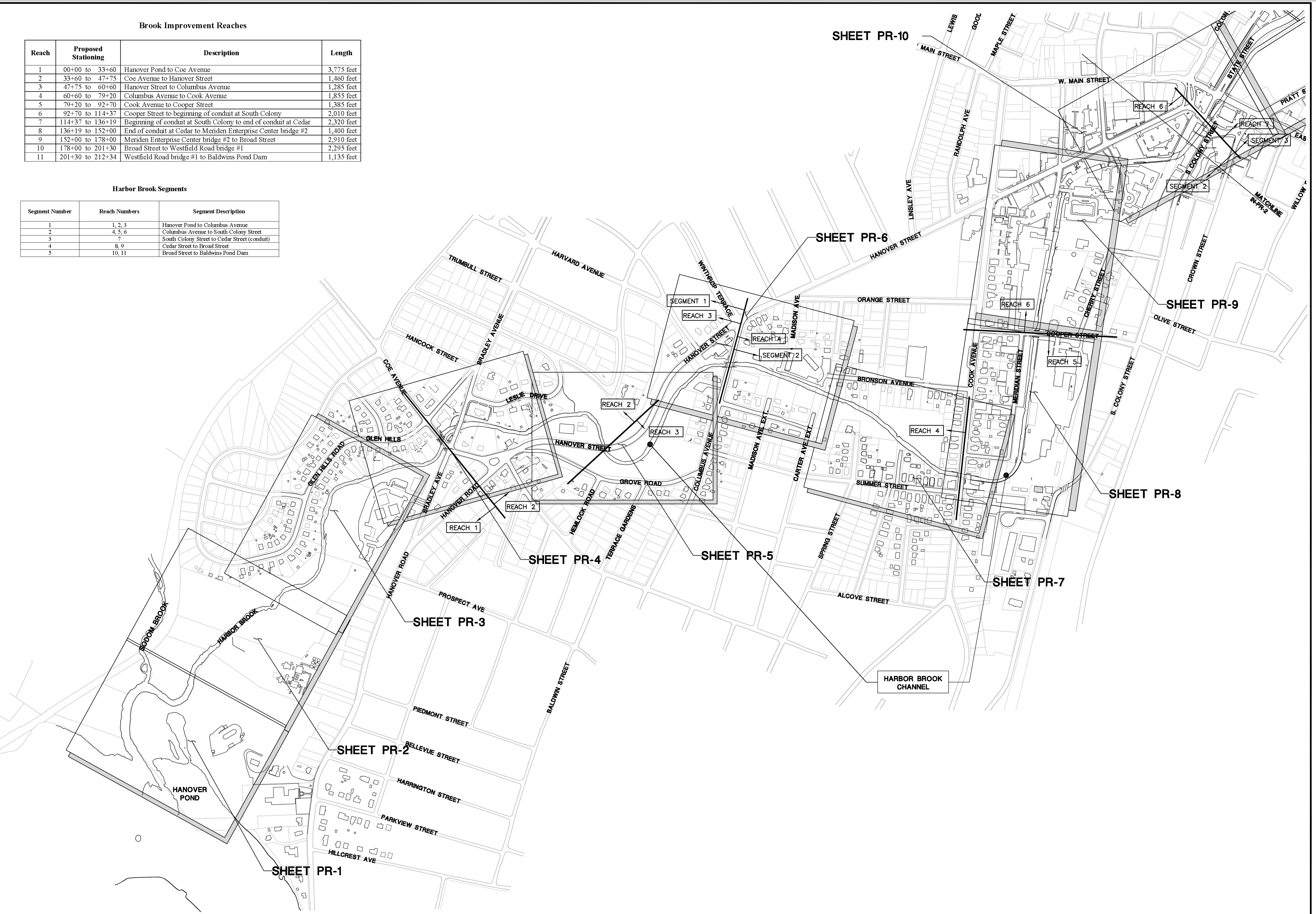
EX-9
SHEET NO.

Brook Improvement Reaches

Reach	Proposed Stationing	Description	Length
1	00+00 to 33+60	Hanover Pond to Coe Avenue	3,775 feet
2	33+60 to 47+75	Coe Avenue to Hanover Street	1,460 feet
3	47+75 to 60+60	Hanover Street to Columbus Avenue	1,285 feet
4	60+60 to 79+20	Columbus Avenue to Cook Avenue	1,855 feet
5	79+20 to 92+70	Cook Avenue to Cooper Street	1,385 feet
6	92+70 to 114+37	Cooper Street to beginning of conduit at South Colony	2,010 feet
7	114+37 to 136+19	Beginning of conduit at South Colony to end of conduit at Cedar	2,320 feet
8	136+19 to 152+00	End of conduit at Cedar to Meriden Enterprise Center bridge #2	1,400 feet
9	152+00 to 178+00	Meriden Enterprise Center bridge #2 to Broad Street	2,910 feet
10	178+00 to 201+30	Broad Street to Westfield Road bridge #1	2,295 feet
11	201+30 to 212+34	Westfield Road bridge #1 to Baldwins Pond Dam	1,135 feet

Harbor Brook Segments

Segment Number	Reach Numbers	Segment Description
1	1, 2, 3	Hanover Pond to Columbus Avenue
2	4, 5, 6	Columbus Avenue to South Colony Street
3	7	South Colony Street to Cedar Street (conduit)
4	8, 9	Cedar Street to Broad Street
5	10, 11	Broad Street to Baldwins Pond Dam


SHEET PR-1
SHEET PR-2
SHEET PR-3
SHEET PR-4
SHEET PR-5
SHEET PR-6
SHEET PR-7
SHEET PR-8
SHEET PR-9
SHEET PR-10
REACH 1
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
SEGMENT 1
SEGMENT 2
SEGMENT 3
HARBOR BROOK CHANNEL
MATCHLINE IN-PR-2
HANOVER POND
SODOM BROOK
HARBOR BROOK
GLEN HILLS
GLEN HILLS ROAD
COE AVENUE
BRADLEY AVENUE
BRADLEY AVE
LESLIE DRIVE
HANOVER ROAD
HANOVER STREET
GROVE ROAD
HEMLOCK ROAD
TERRACE GARDENS
COLUMBUS AVENUE
MADISON AVE.
MADISON AVE. EXT.
CARTER AVE. EXT.
WINTHROP TERRACE
ORANGE STREET
BRONSON AVENUE
SUMMER STREET
SPRING STREET
ALCOVE STREET
COOK AVENUE
MERIDIAN STREET
COOPER STREET
CHERRY STREET
CROWN STREET
OLIVE STREET
S. COLONY STREET
TRUMBULL STREET
HARVARD AVENUE
HANCOCK STREET
PROSPECT AVE
BALDWIN STREET
PIEDMONT STREET
BELLEVUE STREET
HARRINGTON STREET
PARKVIEW STREET
HILLCREST AVE
LINSLEY AVE
RANDOLPH AVE
LEWIS
GOOL
MAPLE STREET
MAIN STREET
W. MAIN STREET
STATE STREET
PRATT S
EAS
WILLOW
COLON

N
E
S
W
0
150'
300'

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REVISIONS

1	03/02/2012
2	04/18/2012

INDEX - PROPOSED CONDITIONS AND S&E CONTROLS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

SCALE 1"=300'

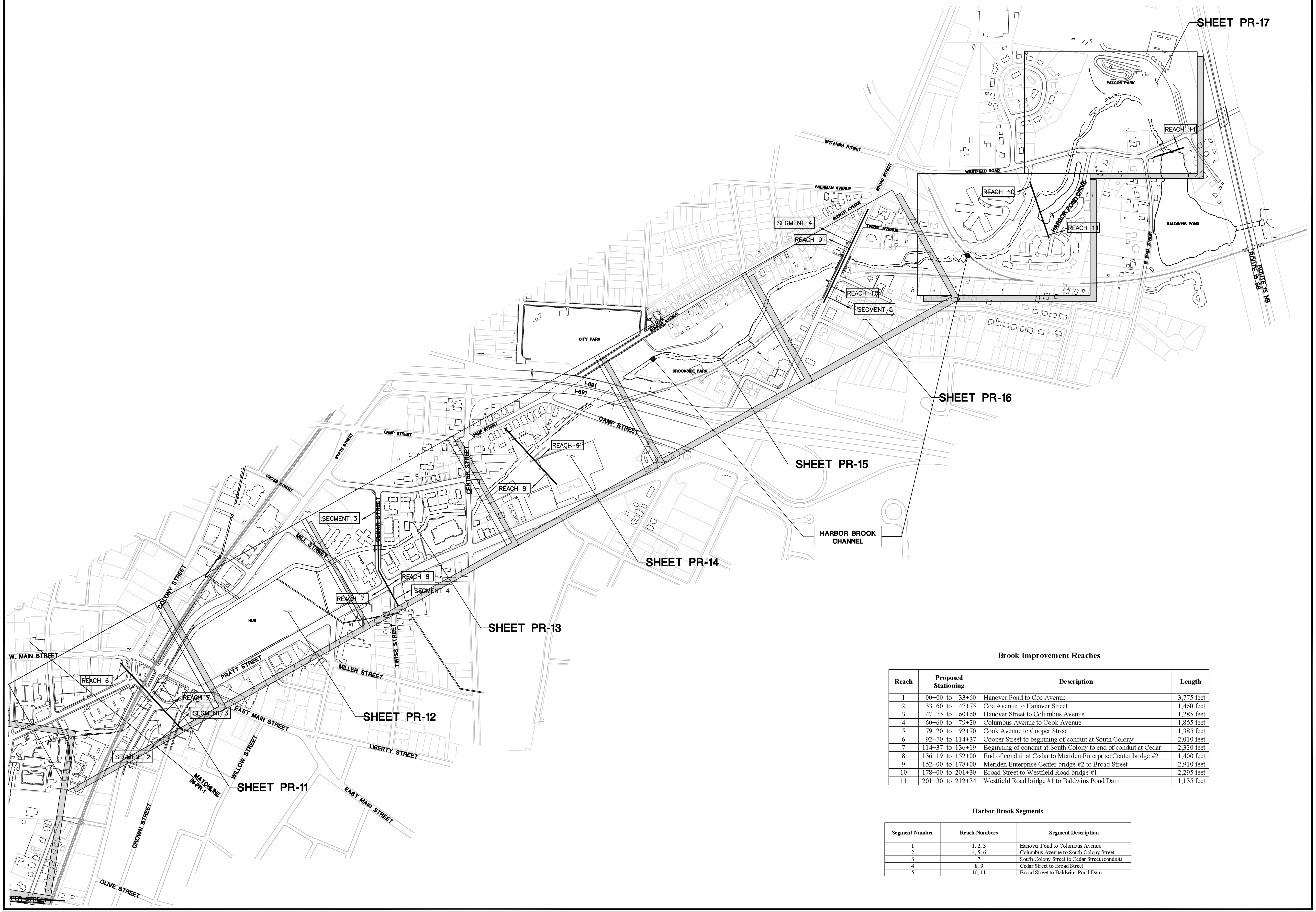
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 36 OF 65

SHEET NO. **IN-PR-1**

Drawing: H:\1261-14\DWG\CURRENT\HB-INDEX-PROPOSED.DWG Layout Tab:IN-PR-2
Plotted by: BECKYM On this date: Mon, 2012 April 16 - 4:45pm


SHEET PR-17
FALCON PARK
REACH 11
BRITANNIA STREET
WESTFIELD ROAD
BROAD STREET
SHERMAN AVENUE
REACH 10
HARBOR POND DRIVE
REACH 11
BALDWINS POND
N. WALL STREET
ROUTE 15 NB
ROUTE 15 SB
SEGMENT 4
BUNKER AVENUE
TWISS AVENUE
REACH 9
REACH 10
SEGMENT 5
CITY PARK
BUNKER AVENUE
BROOKSIDE PARK
I-691
I-691
SHEET PR-16
CAMP STREET
CAMP STREET
STATE STREET
CAMP STREET
REACH 9
CENTER STREET
SHEET PR-15
REACH 8
CROSS STREET
SEGMENT 3
CEDAR STREET
HARBOR BROOK CHANNEL
SHEET PR-14
MILL STREET
COLONY STREET
REACH 8
SEGMENT 4
REACH 7
SHEET PR-13
HUB
TWISS STREET
W. MAIN STREET
PRATT STREET
MILLER STREET
REACH 6
REACH 7
SEGMENT 3
SHEET PR-12
EAST MAIN STREET
LIBERTY STREET
SEGMENT 2
WILLOW STREET
MATCHLINE IN-PR-1
SHEET PR-11
CROWN STREET
EAST MAIN STREET
OLIVE STREET
PER STREET

Brook Improvement Reaches

Reach	Proposed Stationing	Description	Length
1	00+00 to 33+60	Hanover Pond to Coe Avenue	3,775 feet
2	33+60 to 47+75	Coe Avenue to Hanover Street	1,460 feet
3	47+75 to 60+60	Hanover Street to Columbus Avenue	1,285 feet
4	60+60 to 79+20	Columbus Avenue to Cook Avenue	1,855 feet
5	79+20 to 92+70	Cook Avenue to Cooper Street	1,385 feet
6	92+70 to 114+37	Cooper Street to beginning of conduit at South Colony	2,010 feet
7	114+37 to 136+19	Beginning of conduit at South Colony to end of conduit at Cedar	2,320 feet
8	136+19 to 152+00	End of conduit at Cedar to Meriden Enterprise Center bridge #2	1,400 feet
9	152+00 to 178+00	Meriden Enterprise Center bridge #2 to Broad Street	2,910 feet
10	178+00 to 201+30	Broad Street to Westfield Road bridge #1	2,295 feet
11	201+30 to 212+34	Westfield Road bridge #1 to Baldwins Pond Dam	1,135 feet

Harbor Brook Segments

Segment Number	Reach Numbers	Segment Description
1	1, 2, 3	Hanover Pond to Columbus Avenue
2	4, 5, 6	Columbus Avenue to South Colony Street
3	7	South Colony Street to Cedar Street (conduit)
4	8, 9	Cedar Street to Broad Street
5	10, 11	Broad Street to Baldwins Pond Dam

N
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0 X' X'

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REVISIONS
1 03/02/2012
2 04/18/2012

INDEX - PROPOSED CONDITIONS AND S&E CONTROLS

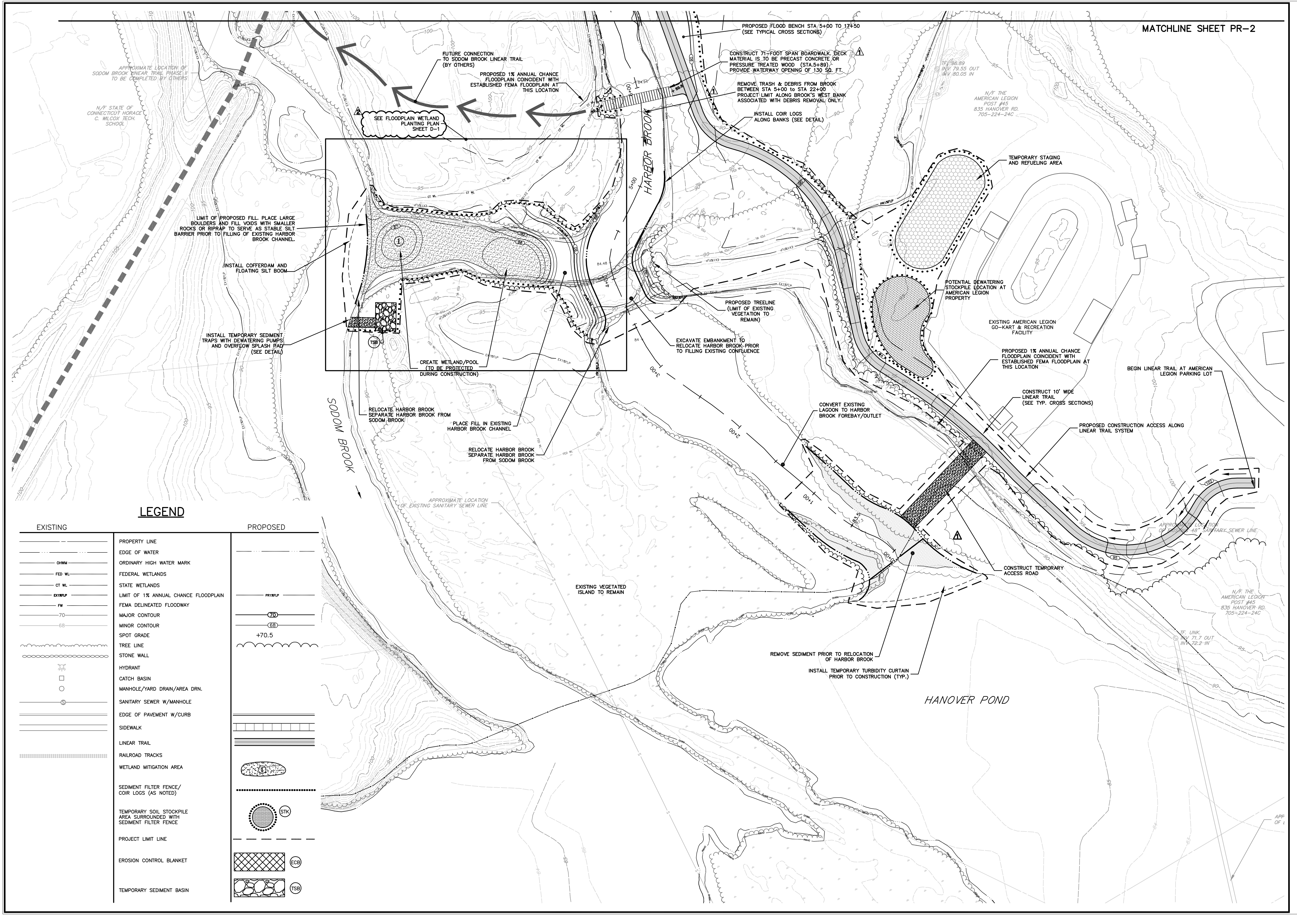
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=300'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 37 OF 65
IN-PR-2
SHEET NO.


MATCHLINE SHEET PR-2
APPROXIMATE LOCATION OF SODOM BROOK LINEAR TRAIL PHASE II TO BE COMPLETED BY OTHERS
N/F STATE OF CONNECTICUT HORACE C. WILCOX TECH. SCHOOL
FUTURE CONNECTION TO SODOM BROOK LINEAR TRAIL (BY OTHERS)
PROPOSED 1% ANNUAL CHANCE FLOODPLAIN COINCIDENT WITH ESTABLISHED FEMA FLOODPLAIN AT THIS LOCATION
SEE FLOODPLAIN WETLAND PLANTING PLAN SHEET D-1
PROPOSED FLOOD BENCH STA 5+00 TO 17+50 (SEE TYPICAL CROSS SECTIONS)
CONSTRUCT 71-FOOT SPAN BOARDWALK. DECK MATERIAL IS TO BE PRECAST CONCRETE OR PRESSURE TREATED WOOD (STA.5+89) PROVIDE WATERWAY OPENING OF 130 SQ. FT.
REMOVE TRASH & DEBRIS FROM BROOK BETWEEN STA 5+00 to STA 22+00 PROJECT LIMIT ALONG BROOK'S WEST BANK ASSOCIATED WITH DEBRIS REMOVAL ONLY.
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
TF 96.89
INV 79.55 OUT
INV 80.05 IN
N/F THE AMERICAN LEGION POST #45 835 HANOVER RD. 705-224-24C
HARBOR BROOK
TEMPORARY STAGING AND REFUELING AREA
LIMIT OF PROPOSED FILL. PLACE LARGE BOULDERS AND FILL VOIDS WITH SMALLER ROCKS OR RIPRAP TO SERVE AS STABLE SILT BARRIER PRIOR TO FILLING OF EXISTING HARBOR BROOK CHANNEL.
INSTALL COFFERDAM AND FLOATING SILT BOOM
INSTALL TEMPORARY SEDIMENT TRAPS WITH DEWATERING PUMPS AND OVERFLOW SPLASH PAD (SEE DETAIL)
TSB
CREATE WETLAND/POOL (TO BE PROTECTED DURING CONSTRUCTION)
PROPOSED TREELINE (LIMIT OF EXISTING VEGETATION TO REMAIN)
EXCAVATE EMBANKMENT TO RELOCATE HARBOR BROOK PRIOR TO FILLING EXISTING CONFLUENCE
POTENTIAL DEWATERING STOCKPILE LOCATION AT AMERICAN LEGION PROPERTY
EXISTING AMERICAN LEGION GO-KART & RECREATION FACILITY
PROPOSED 1% ANNUAL CHANCE FLOODPLAIN COINCIDENT WITH ESTABLISHED FEMA FLOODPLAIN AT THIS LOCATION
BEGIN LINEAR TRAIL AT AMERICAN LEGION PARKING LOT
CONSTRUCT 10' WIDE LINEAR TRAIL (SEE TYP. CROSS SECTIONS)
PROPOSED CONSTRUCTION ACCESS ALONG LINEAR TRAIL SYSTEM
SODOM BROOK
RELOCATE HARBOR BROOK SEPARATE HARBOR BROOK FROM SODOM BROOK
PLACE FILL IN EXISTING HARBOR BROOK CHANNEL
RELOCATE HARBOR BROOK SEPARATE HARBOR BROOK FROM SODOM BROOK
CONVERT EXISTING LAGOON TO HARBOR BROOK FOREBAY/OUTLET
APPROXIMATE LOCATION OF EXISTING SANITARY SEWER LINE
APPROXIMATE LOCATION OF EXISTING 48" SANITARY SEWER LINE
CONSTRUCT TEMPORARY ACCESS ROAD
EXISTING VEGETATED ISLAND TO REMAIN
N/F THE AMERICAN LEGION POST #45 835 HANOVER RD. 705-224-24C
TF. UNK.
INV 71.7 OUT
INV 72.2 IN
REMOVE SEDIMENT PRIOR TO RELOCATION OF HARBOR BROOK
INSTALL TEMPORARY TURBIDITY CURTAIN PRIOR TO CONSTRUCTION (TYP.)
HANOVER POND
5+00
4+00
3+00
2+00
1+00
0+00
84.94
89.8
84.48
83.5
0
20'
40'
N
E
S
W

LEGEND

EXISTING		PROPOSED
— — —	PROPERTY LINE	
— · · · —	EDGE OF WATER	— · · · —
— OHWM —	ORDINARY HIGH WATER MARK	
— FED WL —	FEDERAL WETLANDS	
— CT WL —	STATE WETLANDS	
— EX1%FLP —	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	— PR1%FLP —
— FW —	FEMA DELINEATED FLOODWAY	
—70—	MAJOR CONTOUR	—70—
—68—	MINOR CONTOUR	—68—
	SPOT GRADE	+70.5
⌒⌒⌒	TREE LINE	⌒⌒⌒
○○○○	STONE WALL	
	HYDRANT	
□	CATCH BASIN	
○	MANHOLE/YARD DRAIN/AREA DRN.	
—Ⓢ—	SANITARY SEWER W/MANHOLE	
═	EDGE OF PAVEMENT W/CURB	═
═	SIDEWALK	╪╪╪
	LINEAR TRAIL	▨
╫╫╫	RAILROAD TRACKS	
	WETLAND MITIGATION AREA	①
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	•••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	— — —
	EROSION CONTROL BLANKET	▩ ECB
	TEMPORARY SEDIMENT BASIN	TSB

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MERIDEN, CONNECTICUT

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

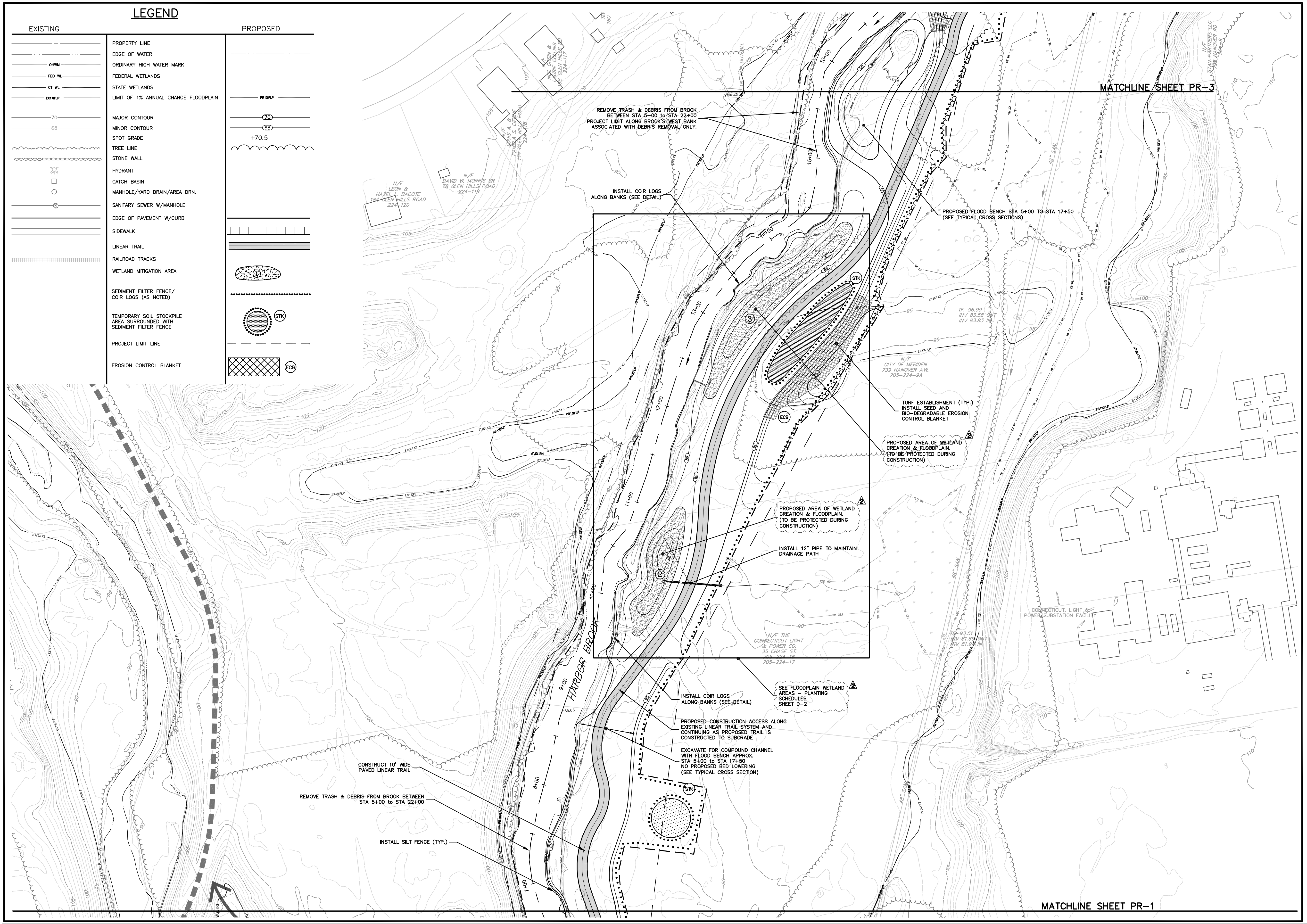
SHEET NO. 38 OF 65

PR-1
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-1TO9.DWG Layout Tab:PR-2
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:28am

LEGEND

EXISTING		PROPOSED
— —	PROPERTY LINE	
···	EDGE OF WATER	···
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	HYDRANT	
□	CATCH BASIN	
○	MANHOLE/YARD DRAIN/AREA DRN.	
Ⓢ	SANITARY SEWER W/MANHOLE	
	EDGE OF PAVEMENT W/CURB	
	SIDEWALK	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	WETLAND MITIGATION AREA	①
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	••••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	— — —
	EROSION CONTROL BLANKET	▨ ECB


MATCHLINE SHEET PR-3
REMOVE TRASH & DEBRIS FROM BROOK BETWEEN STA 5+00 to STA 22+00 PROJECT LIMIT ALONG BROOK'S WEST BANK ASSOCIATED WITH DEBRIS REMOVAL ONLY.
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
PROPOSED FLOOD BENCH STA 5+00 TO STA 17+50 (SEE TYPICAL CROSS SECTIONS)
TURF ESTABLISHMENT (TYP.) INSTALL SEED AND BIO-DEGRADABLE EROSION CONTROL BLANKET
PROPOSED AREA OF WETLAND CREATION & FLOODPLAIN. (TO BE PROTECTED DURING CONSTRUCTION)
PROPOSED AREA OF WETLAND CREATION & FLOODPLAIN. (TO BE PROTECTED DURING CONSTRUCTION)
INSTALL 12" PIPE TO MAINTAIN DRAINAGE PATH
SEE FLOODPLAIN WETLAND AREAS – PLANTING SCHEDULES SHEET D-2
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
PROPOSED CONSTRUCTION ACCESS ALONG EXISTING LINEAR TRAIL SYSTEM AND CONTINUING AS PROPOSED TRAIL IS CONSTRUCTED TO SUBGRADE
EXCAVATE FOR COMPOUND CHANNEL WITH FLOOD BENCH APPROX. STA 5+00 to STA 17+50 NO PROPOSED BED LOWERING (SEE TYPICAL CROSS SECTION)
CONSTRUCT 10' WIDE PAVED LINEAR TRAIL
REMOVE TRASH & DEBRIS FROM BROOK BETWEEN STA 5+00 to STA 22+00
INSTALL SILT FENCE (TYP.)
MATCHLINE SHEET PR-1
HARBOR BROOK
N/F LEON & HAZEL L. BACOTE 184 GLEN HILLS ROAD 224-120
N/F DAVID W. MORRIS SR. 78 GLEN HILLS ROAD 224-119
N/F LOUIS A. & PAMELA S. CIFONE 174 GLEN HILLS ROAD 224-118
N/F NEIL ORSIN & LAURIE COLLINS 168 GLEN HILLS RD 224-117
N/F TITAN PARTNERS LLC 735 HANOVER RD 224-9
N/F CITY OF MERIDEN 739 HANOVER AVE 705-224-9A
N/F THE CONNECTICUT LIGHT & POWER CO. 35 CHASE ST. 705-224-16 705-224-17
CONNECTICUT LIGHT & POWER SUBSTATION FACILITY
TF. 96.99 INV 83.58 OUT INV 83.83 IN
TF. 93.51 INV 81.69 OUT INV 81.94 IN
48" SAN.
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
STK
ECB
①
②
③
+85.63

0 20' 40'

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DESIGNED	DRAWN	CHECKED
NEB	BAM	JGM

SCALE 1"=40'

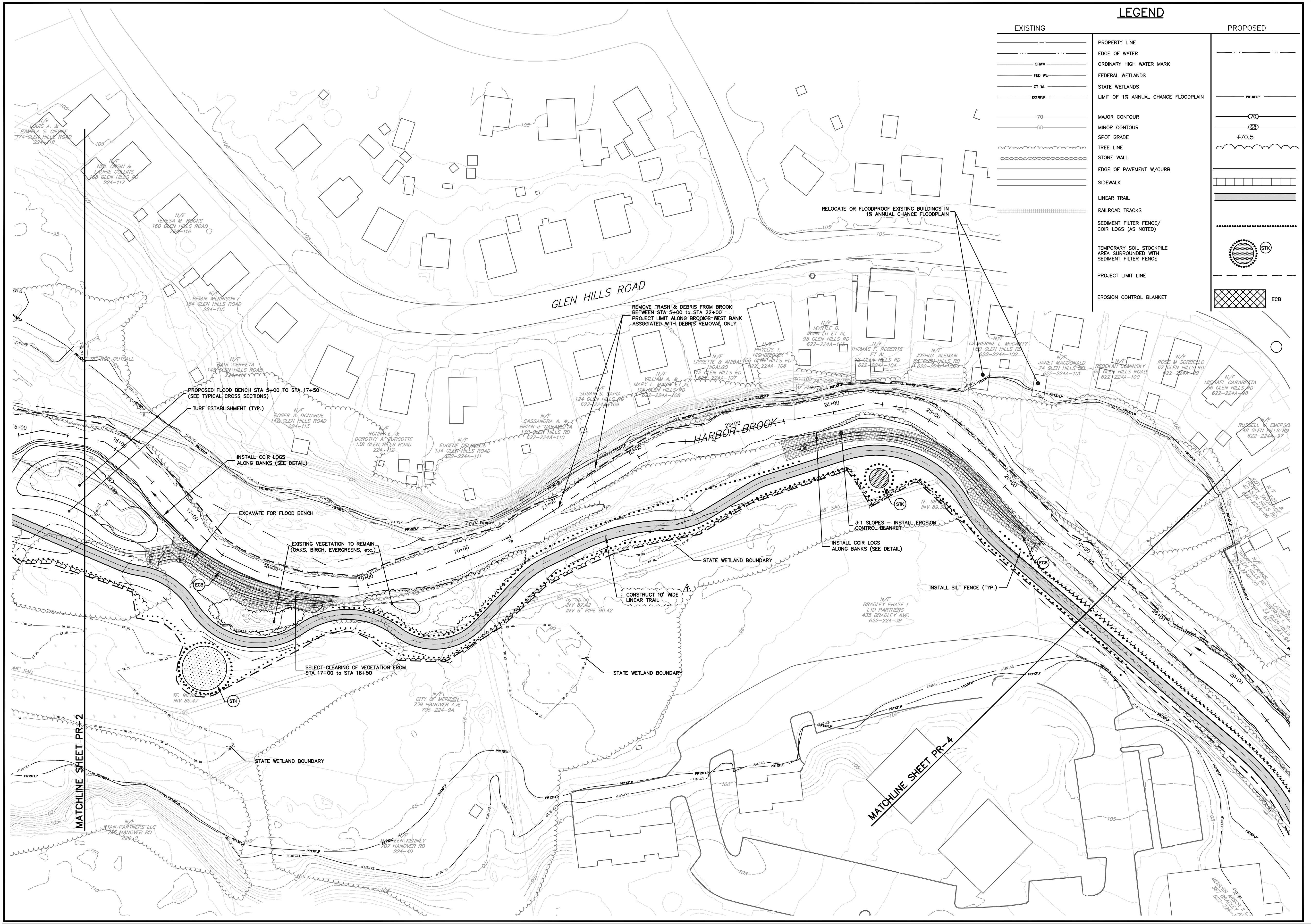
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 39 OF 65

PR-2
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-1TO9.DWG Layout Tab:PR-3
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:28am



GLEN HILLS ROAD
HARBOR BROOK
N/F LOUIS A. & PAMELA S. CIFONE 174 GLEN HILLS ROAD 224-118
N/F NEIL ORSIN & LAURIE COLLINS 168 GLEN HILLS RD 224-117
N/F TERESA M. ROOKS 160 GLEN HILLS ROAD 224-116
N/F BRIAN WILKINSON 154 GLEN HILLS ROAD 224-115
N/F PAUL CERRETA 148 GLEN HILLS ROAD 224-114
N/F ROGER A. DONAHUE 142 GLEN HILLS ROAD 224-113
N/F RONNY E. & DOROTHY A. TURCOTTE 138 GLEN HILLS ROAD 224-112
N/F EUGENE DELGRECO 134 GLEN HILLS ROAD 622-224A-111
N/F CASSANDRA A. & BRIAN J. CARABETTA 130 GLEN HILLS RD 622-224A-110
N/F SUSAN S. SAPIA 124 GLEN HILLS RD 622-224A-109
N/F WILLIAM A. & MARY L. MAURI ET AL 118 GLEN HILLS RD 622-224A-108
N/F LISSETTE & ANIBAL HIDALGO 112 GLEN HILLS RD 622-224A-107
N/F PHYLLIS T. HIGHBRIDGE 106 GLEN HILLS RD 622-224A-106
N/F MYRTLE D. IRVIN LU ET AL 98 GLEN HILLS RD 622-224A-105
N/F THOMAS F. ROBERTS ET AL 92 GLEN HILLS RD 622-224A-104
N/F JOSHUA ALEMAN 86 GLEN HILLS RD 622-224A-103
N/F CATHERINE L. McCARTY 80 GLEN HILLS RD 622-224A-102
N/F JANET MACDONALD 74 GLEN HILLS RD 622-224A-101
N/F REBEKAH COMINSKY 68 GLEN HILLS ROAD 622-224A-100
N/F ROSE M SORBELLO 62 GLEN HILLS RD 622-224A-99
N/F MICHAEL CARABETTA 56 GLEN HILLS RD 622-224A-98
N/F RUSSELL W. EMERSON 48 GLEN HILLS RD 622-224A-97
N/F JODY L. LEGAT & HENRY TARAPACZ 42 GLEN HILLS RD 622-224A-96
N/F SUSAN KLAVINS 38 GLEN HILLS RD 622-224A-95
N/F LAURENCE & DEBORAH L. J. 32 GLEN HILLS RD 622-224A-94
N/F BRADLEY PHASE I LTD PARTNERS 435 BRADLEY AVE. 622-224-3B
N/F CITY OF MERIDEN 739 HANOVER AVE 705-224-9A
N/F TITAN PARTNERS LLC 735 HANOVER RD 224-9
N/F MAUREEN KENNEY 707 HANOVER RD 224-4D
N/F MERIDEN ARBOR II 387 BRADLEY AVE 622-224-
18" RCP OUTFALL
24" RCP OUTFALL
48" SAN.
TF. 96.88 INV 85.47
TF. 95.50 INV 87.42 INV 8" PIPE 90.42
TF. 98.8 INV 89.38
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00
28+00
29+00
PROPOSED FLOOD BENCH STA 5+00 TO STA 17+50 (SEE TYPICAL CROSS SECTIONS)
TURF ESTABLISHMENT (TYP.)
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
EXCAVATE FOR FLOOD BENCH
EXISTING VEGETATION TO REMAIN (OAKS, BIRCH, EVERGREENS, etc.)
SELECT CLEARING OF VEGETATION FROM STA 17+00 to STA 18+50
CONSTRUCT 10' WIDE LINEAR TRAIL
STATE WETLAND BOUNDARY
REMOVE TRASH & DEBRIS FROM BROOK BETWEEN STA 5+00 to STA 22+00 PROJECT LIMIT ALONG BROOK'S WEST BANK ASSOCIATED WITH DEBRIS REMOVAL ONLY.
RELOCATE OR FLOODPROOF EXISTING BUILDINGS IN 1% ANNUAL CHANCE FLOODPLAIN
3:1 SLOPES - INSTALL EROSION CONTROL BLANKET
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
INSTALL SILT FENCE (TYP.)
ECB
STK
MATCHLINE SHEET PR-2
MATCHLINE SHEET PR-4
0 20' 40'
N E S W

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	SIDEWALK	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	
	EROSION CONTROL BLANKET	ECB

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HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

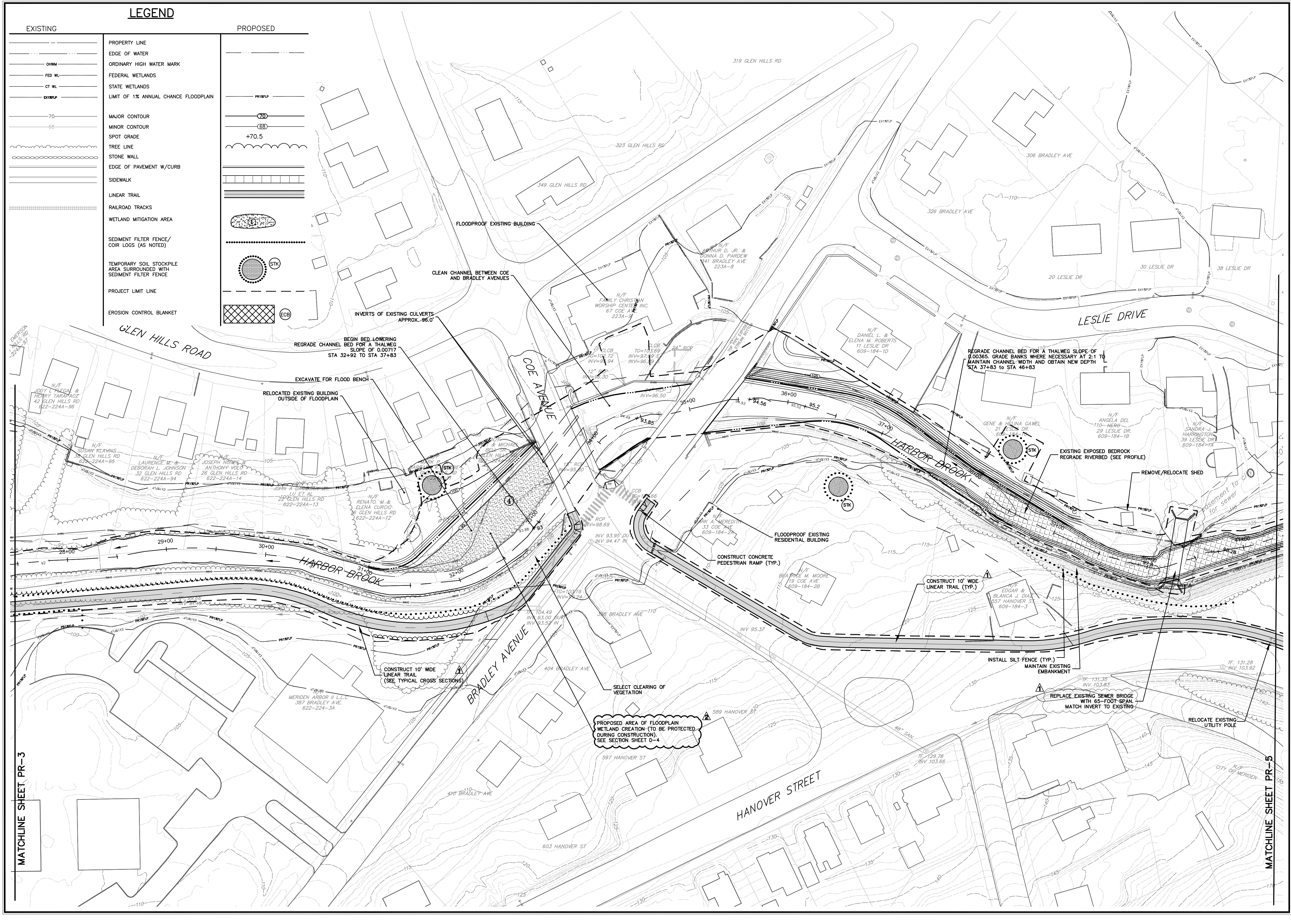
SHEET NO. 40 OF 65

PR-3
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-1TO9.DWG Layout Tab:PR-4
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:28am

LEGEND

EXISTING		PROPOSED
— —	PROPERTY LINE	
— · · · —	EDGE OF WATER	— · · · —
— OHWM —	ORDINARY HIGH WATER MARK	
— FED WL —	FEDERAL WETLANDS	
— CT WL —	STATE WETLANDS	
— EX1%FLP —	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	— PR1%FLP —
—70—	MAJOR CONTOUR	—(70)—
—68—	MINOR CONTOUR	—(68)—
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	SIDEWALK	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	WETLAND MITIGATION AREA	①
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	•••••••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	— — — —
	EROSION CONTROL BLANKET	▨ ECB



GLEN HILLS ROAD
COE AVENUE
BRADLEY AVENUE
HANOVER STREET
LESLIE DRIVE
HARBOR BROOK
319 GLEN HILLS RD
323 GLEN HILLS RD
349 GLEN HILLS RD
306 BRADLEY AVE
326 BRADLEY AVE
20 LESLIE DR
30 LESLIE DR
38 LESLIE DR
FLOODPROOF EXISTING BUILDING
CLEAN CHANNEL BETWEEN COE AND BRADLEY AVENUES
INVERTS OF EXISTING CULVERTS APPROX. 96.0'
BEGIN BED LOWERING REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00717 STA 32+92 TO STA 37+83
EXCAVATE FOR FLOOD BENCH
RELOCATED EXISTING BUILDING OUTSIDE OF FLOODPLAIN
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00365. GRADE BANKS WHERE NECESSARY AT 2:1 TO MAINTAIN CHANNEL WIDTH AND OBTAIN NEW DEPTH STA 37+83 to STA 46+83
EXISTING EXPOSED BEDROCK REGRADE RIVERBED (SEE PROFILE)
REMOVE/RELOCATE SHED
FLOODPROOF EXISTING RESIDENTIAL BUILDING
CONSTRUCT CONCRETE PEDESTRIAN RAMP (TYP.)
CONSTRUCT 10' WIDE LINEAR TRAIL (TYP.)
INSTALL SILT FENCE (TYP.)
MAINTAIN EXISTING EMBANKMENT
REPLACE EXISTING SEWER BRIDGE WITH 65-FOOT SPAN. MATCH INVERT TO EXISTING
RELOCATE EXISTING UTILITY POLE
CONSTRUCT 10' WIDE LINEAR TRAIL (SEE TYPICAL CROSS SECTIONS)
SELECT CLEARING OF VEGETATION
PROPOSED AREA OF FLOODPLAIN WETLAND CREATION (TO BE PROTECTED DURING CONSTRUCTION). SEE SECTION SHEET D-4
MERIDEN ARBOR II L.L.C 387 BRADLEY AVE. 622-224-3A
404 BRADLEY AVE
398 BRADLEY AVE
410 BRADLEY AVE
589 HANOVER ST
597 HANOVER ST
603 HANOVER ST
N/F FAMILY CHRISTIAN WORSHIP CENTER INC. 67 COE AVE 223A-8
N/F DANIEL L. & ELENA M. ROBERTS 11 LESLIE DR 609-184-1D
N/F GENE & HELINA GAWEL
N/F ANGELA DEL NERO 29 LESLIE DR. 609-184-1B
N/F SANDRA J. HARRINGTON 39 LESLIE DR 609-184-1A
N/F EDGAR & BLANCA J. DIAZ 557 HANOVER ST 609-184-3
N/F BEATRICE M. MOORE 19 COE AVE 609-184-2B
N/F JODY L. FLEGAL & HENRY TARAPACZ 42 GLEN HILLS RD 622-224A-96
N/F SUSAN KLAVINS 36 GLEN HILLS RD 622-224A-95
N/F LAURENCE M. & DEBORAH L. JOHNSON 32 GLEN HILLS RD 622-224A-94
N/F JOSEPH NOWAK & ANTHONY VOLO 26 GLEN HILLS RD 622-224A-14
N/F RENATO M. & ELENA CURCIO 16 GLEN HILLS RD 622-224A-12
CITY OF MERIDEN
STK
28+00
29+00
30+00
31+00
32+00
35+00
36+00
37+00
39+00
INV 95.37
TF. 131.28 INV 103.92
TF. 129.76 INV 103.66
48" SAN.
MATCHLINE SHEET PR-3
MATCHLINE SHEET PR-5

N
W E
S
0 20' 40'

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MERIDEN, CONNECTICUT

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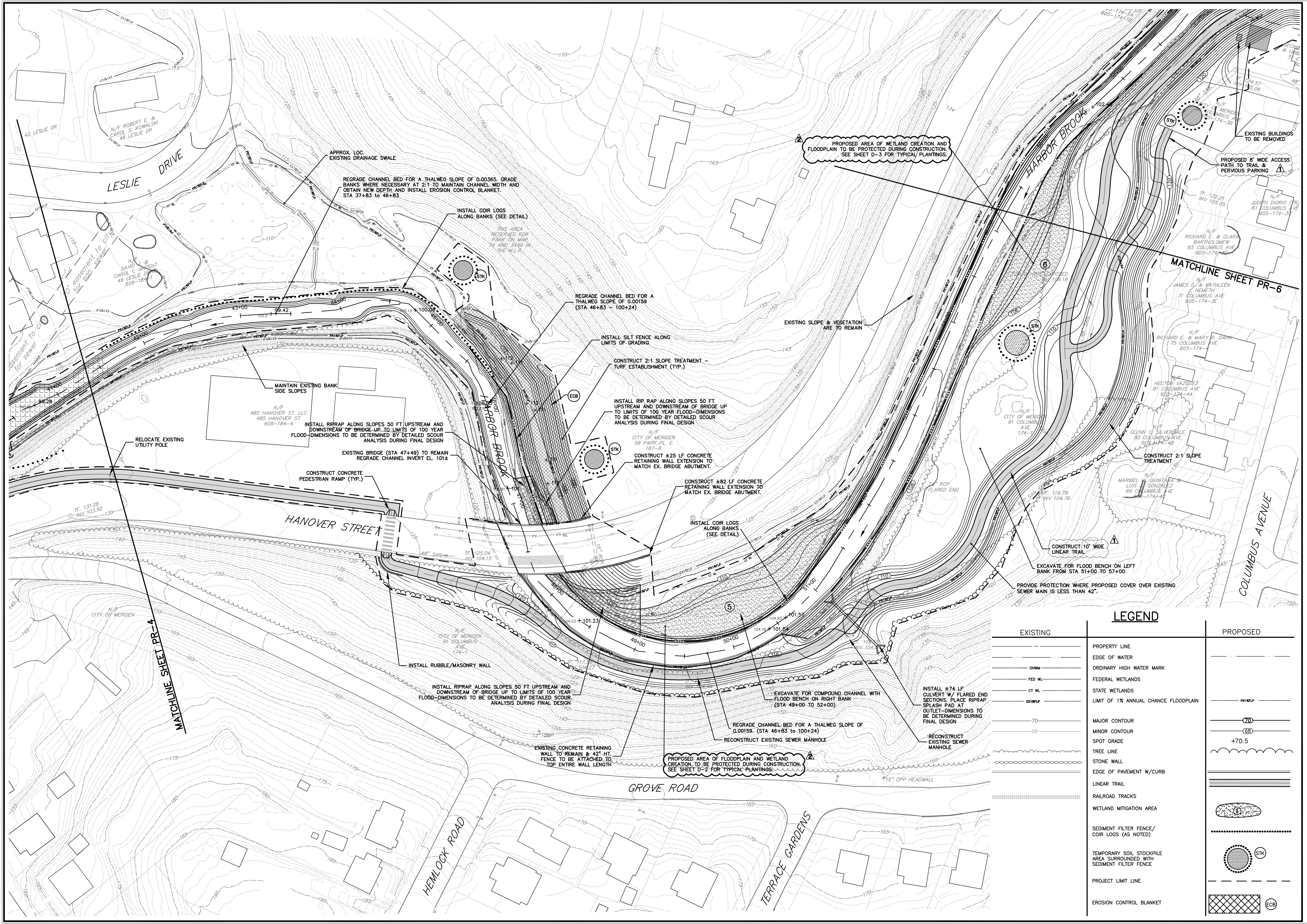
NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 41 OF 65

SHEET NO.
PR-4

awing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-1TO9.DWG Layout Tab:PR-5
tted by: BECKYM On this date: Fri, 2012 April 20 - 9:28am


LESLIE DRIVE
42 LESLIE DR
N/F ROBERT E. & CAROL S. KOWALSKI 46 LESLIE DR
N/F DAVID J. & CAROL C VINCENT 49 LESLIE DRIVE 609-184-1
20' easement to city for san. sewer
easement to city for sewer
APPROX. LOC. EXISTING DRAINAGE SWALE
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00365. GRADE BANKS WHERE NECESSARY AT 2:1 TO MAINTAIN CHANNEL WIDTH AND OBTAIN NEW DEPTH AND INSTALL EROSION CONTROL BLANKET. STA 37+83 to 46+83
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
THIS AREA RESERVED FOR PARK ON MAP 74 AND 3499 IN THE M.L.R.
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00159 (STA 46+83 – 100+24)
INSTALL SILT FENCE ALONG LIMITS OF GRADING
CONSTRUCT 2:1 SLOPE TREATMENT – TURF ESTABLISHMENT (TYP.)
INSTALL RIP RAP ALONG SLOPES 50 FT UPSTREAM AND DOWNSTREAM OF BRIDGE UP TO LIMITS OF 100 YEAR FLOOD–DIMENSIONS TO BE DETERMINED BY DETAILED SCOUR ANALYSIS DURING FINAL DESIGN
N/F CITY OF MERIDEN 58 PARK PL. E. 187-8
CONSTRUCT ±25 LF CONCRETE RETAINING WALL EXTENSION TO MATCH EX. BRIDGE ABUTMENT.
CONSTRUCT ±82 LF CONCRETE RETAINING WALL EXTENSION TO MATCH EX. BRIDGE ABUTMENT.
MAINTAIN EXISTING BANK SIDE SLOPES
N/F 485 HANOVER ST. LLC 485 HANOVER ST 609-184-4
INSTALL RIPRAP ALONG SLOPES 50 FT UPSTREAM AND DOWNSTREAM OF BRIDGE UP TO LIMITS OF 100 YEAR FLOOD–DIMENSIONS TO BE DETERMINED BY DETAILED SCOUR ANALYSIS DURING FINAL DESIGN
EXISTING BRIDGE (STA 47+49) TO REMAIN REGRADE CHANNEL INVERT EL. 101±
RELOCATE EXISTING UTILITY POLE
CONSTRUCT CONCRETE PEDESTRIAN RAMP (TYP.)
HARBOR BROOK
HANOVER STREET
48" SAN.
TF. 125.04 INV 104.15
TF. 131.28 INV 103.92
15" RCP
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
MATCHLINE SHEET PR-4
N/F CITY OF MERIDEN
N/F CITY OF MERIDEN 91 COLUMBUS AVE 174-1
INSTALL RUBBLE/MASONRY WALL
INSTALL RIPRAP ALONG SLOPES 50 FT UPSTREAM AND DOWNSTREAM OF BRIDGE UP TO LIMITS OF 100 YEAR FLOOD–DIMENSIONS TO BE DETERMINED BY DETAILED SCOUR ANALYSIS DURING FINAL DESIGN
EXISTING CONCRETE RETAINING WALL TO REMAIN & 42" HT. FENCE TO BE ATTACHED TO TOP ENTIRE WALL LENGTH
PROPOSED AREA OF FLOODPLAIN AND WETLAND CREATION TO BE PROTECTED DURING CONSTRUCTION. SEE SHEET D-2 FOR TYPICAL PLANTINGS.
2
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00159. (STA 46+83 to 100+24)
RECONSTRUCT EXISTING SEWER MANHOLE
EXCAVATE FOR COMPOUND CHANNEL WITH FLOOD BENCH ON RIGHT BANK (STA 49+00 TO 52+00)
INSTALL ±74 LF CULVERT W/ FLARED END SECTIONS. PLACE RIPRAP SPLASH PAD AT OUTLET–DIMENSIONS TO BE DETERMINED DURING FINAL DESIGN
RECONSTRUCT EXISTING SEWER MANHOLE
15" CPP HEADWALL
GROVE ROAD
HEMLOCK ROAD
TERRACE GARDENS
PROPOSED AREA OF WETLAND CREATION AND FLOODPLAIN TO BE PROTECTED DURING CONSTRUCTION. SEE SHEET D-3 FOR TYPICAL PLANTINGS.
2
EXISTING SLOPE & VEGETATION ARE TO REMAIN
24" RCP FLARED END
TF. 119.78 INV 104.76
EXISTING BUILDINGS TO BE REMOVED
PROPOSED 8' WIDE ACCESS PATH TO TRAIL & PERVIOUS PARKING
1
N/F CITY OF MERIDEN COLUMBUS AVE 605-174-3B
TF. 122.21 INV 105.05
N/F JUDITH DIORIO (TR) 61 COLUMBUS AVE 605-174-3C
N/F RICHARD E. & CLARA BARTHOLOMEW 65 COLUMBUS AVE 605-174-3D
MATCHLINE SHEET PR-6
N/F JAMES G. & KATHLEEN J. NEMETH 71 COLUMBUS AVE 605-174-3E
N/F RICHARD E. & MARY R. DAHN 75 COLUMBUS AVE 605-174-4
N/F HECTOR VAZQUEZ 81 COLUMBUS AVE 605-174-4A
N/F CITY OF MERIDEN 91 COLUMBUS AVE. 174-1
N/F GLENN C. SILVERNALE 85 COLUMBUS AVE 605-174-4B
N/F MARIBEL N. QUINTANA & LUIS J. GONZALEZ 89 COLUMBUS AVE 605-174-4C
CONSTRUCT 2:1 SLOPE TREATMENT
CONSTRUCT 10' WIDE LINEAR TRAIL
1
EXCAVATE FOR FLOOD BENCH ON LEFT BANK FROM STA 51+00 TO 57+00
PROVIDE PROTECTION WHERE PROPOSED COVER OVER EXISTING SEWER MAIN IS LESS THAN 42".
COLUMBUS AVENUE
STK
ECB
5
6
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
50+00
51+00

LEGEND

EXISTING		PROPOSED
— — —	PROPERTY LINE	
— · · · —	EDGE OF WATER	— · · · —
— OHWM —	ORDINARY HIGH WATER MARK	
— FED WL —	FEDERAL WETLANDS	
— CT WL —	STATE WETLANDS	
— EX1%FLP —	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	— PR1%FLP —
— 70 —	MAJOR CONTOUR	— 70 —
— 68 —	MINOR CONTOUR	— 68 —
	SPOT GRADE	+70.5
⌒⌒⌒	TREE LINE	⌒⌒⌒
○○○○	STONE WALL	
═	EDGE OF PAVEMENT W/CURB	═
	LINEAR TRAIL	▨
┼┼┼┼	RAILROAD TRACKS	
	WETLAND MITIGATION AREA	①
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	••••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	● STK
	PROJECT LIMIT LINE	— — —
	EROSION CONTROL BLANKET	▨ ECB

N W E S
0 20' 40'

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Engineering, Landscape Architecture and Environmental Science
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REVISIONS
1 03/02/2012
2 04/18/2012

PROPOSED CONDITIONS AND S&E CONTROLS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

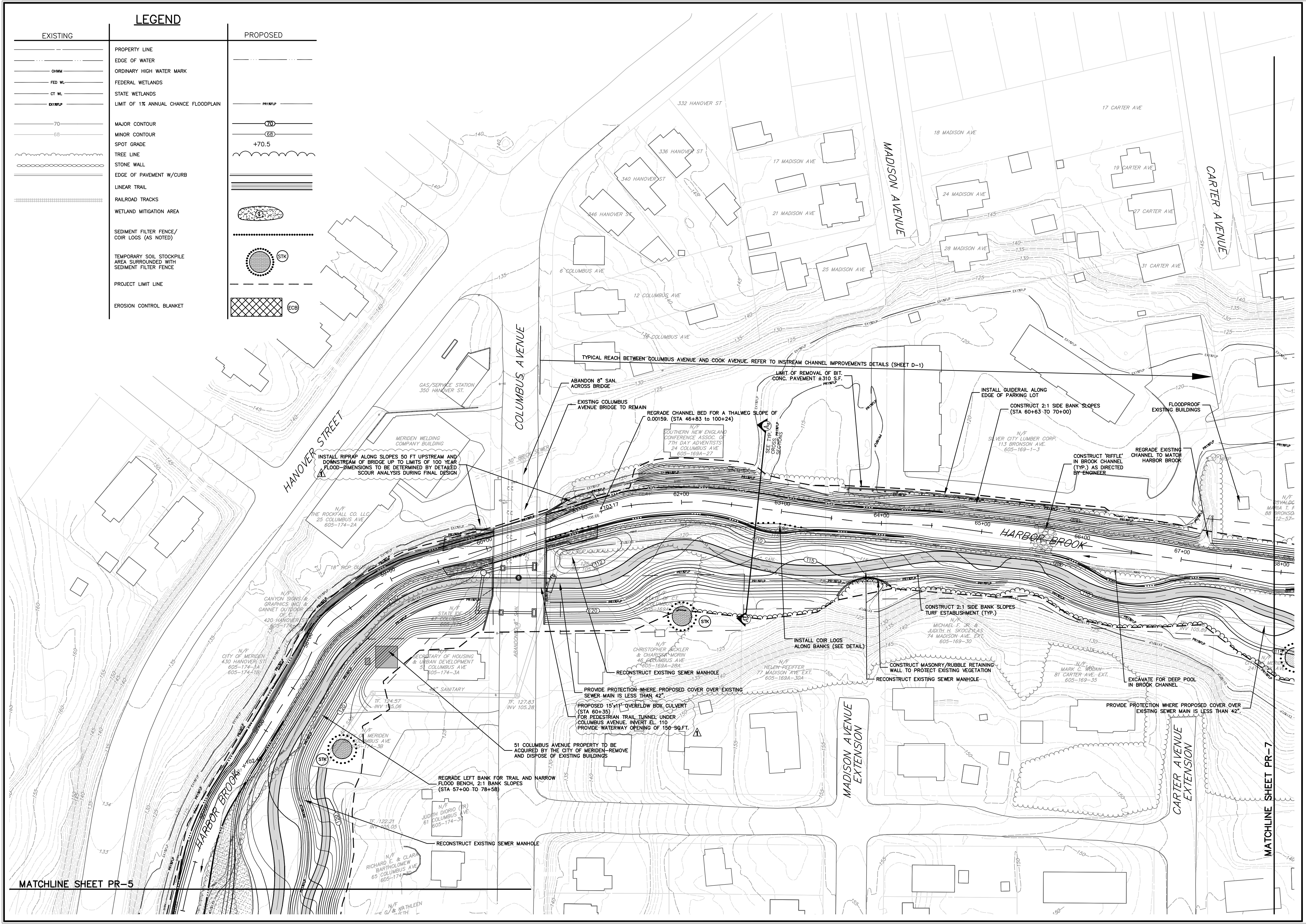
SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 42 OF 65

PR-5
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-1TO9.DWG Layout Tab:PR-6
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:28am

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	WETLAND MITIGATION AREA	①
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	••••••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	— — —
	EROSION CONTROL BLANKET	▨ ECB


HANOVER STREET
COLUMBUS AVENUE
MADISON AVENUE
CARTER AVENUE
MADISON AVENUE EXTENSION
CARTER AVENUE EXTENSION
HARBOR BROOK
332 HANOVER ST
336 HANOVER ST
340 HANOVER ST
346 HANOVER ST
6 COLUMBUS AVE
12 COLUMBUS AVE
16 COLUMBUS AVE
17 MADISON AVE
18 MADISON AVE
21 MADISON AVE
24 MADISON AVE
25 MADISON AVE
28 MADISON AVE
17 CARTER AVE
19 CARTER AVE
27 CARTER AVE
31 CARTER AVE
GAS/SERVICE STATION 350 HANOVER ST.
MERIDEN WELDING COMPANY BUILDING
N/F THE ROCKFALL CO. LLC 25 COLUMBUS AVE 605-174-2A
N/F SOUTHERN NEW ENGLAND CONFERENCE ASSOC. OF 7TH DAY ADVENTISTS 24 COLUMBUS AVE 605-169A-27
N/F SILVER CITY LUMBER CORP. 113 BRONSON AVE. 605-169-1-3
N/F STATE OF CT. 44 COLUMBUS AVE 605-169A-
N/F CHRISTOPHER SICKLER & CHARISSA MORIN 46 COLUMBUS AVE 605-169A-28A
N/F HELEN PFEIFFER 77 MADISON AVE EXT. 605-169A-30A
N/F MICHAEL F. JR. & JUDITH H. SKOCZYLAS 74 MADISON AVE. EXT. 605-169-30
N/F MARK C. WOJAN 81 CARTER AVE. EXT. 605-169-35
N/F CITY OF MERIDEN 430 HANOVER ST. 605-174-1B
N/F CANYON SIGNS & GRAPHICS INC. & GANNET OUTDOOR OF C. 420 HANOVER ST
N/F SECRETARY OF HOUSING & URBAN DEVELOPMENT COLUMBUS AVE 605-174-3A
N/F CITY OF MERIDEN COLUMBUS AVE 605-174-3B
N/F JUDITH DIORIO (TR) 61 COLUMBUS AVE 605-174-3C
N/F RICHARD E. & CLARA BARTHOLOMEW 65 COLUMBUS AVE 605-174-3D
N/F OSVALDO MARIA T. 88 BRONSON 12-57-
30" BRICK SEWER
ABANDONED 8" SAN.
TF. 127.83 INV 105.28
TF. 124.57 INV 105.06
TF. 122.21 INV 105.05
INV 105.89
103.17
106.66
60+00
61+00
62+00
63+00
64+00
65+00
67+00
68+00
SEE TYP. CROSS SECTIONS
A2
STK
MATCHLINE SHEET PR-5
MATCHLINE SHEET PR-7

TYPICAL REACH BETWEEN COLUMBUS AVENUE AND COOK AVENUE. REFER TO INSTREAM CHANNEL IMPROVEMENTS DETAILS (SHEET D-1)

ABANDON 8" SAN. ACROSS BRIDGE

EXISTING COLUMBUS AVENUE BRIDGE TO REMAIN

REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00159. (STA 46+83 to 100+24)

LIMIT OF REMOVAL OF BIT. CONC. PAVEMENT ±310 S.F.

INSTALL GUIDERAIL ALONG EDGE OF PARKING LOT

CONSTRUCT 2:1 SIDE BANK SLOPES (STA 60+63 TO 70+00)

FLOODPROOF EXISTING BUILDINGS

CONSTRUCT 'RIFFLE' IN BROOK CHANNEL (TYP.) AS DIRECTED BY ENGINEER

REGRADE EXISTING CHANNEL TO MATCH HARBOR BROOK

INSTALL RIPRAP ALONG SLOPES 50 FT UPSTREAM AND DOWNSTREAM OF BRIDGE UP TO LIMITS OF 100 YEAR FLOOD-DIMENSIONS TO BE DETERMINED BY DETAILED SCOUR ANALYSIS DURING FINAL DESIGN ⚠1

RECONSTRUCT EXISTING SEWER MANHOLE

PROVIDE PROTECTION WHERE PROPOSED COVER OVER EXISTING SEWER MAIN IS LESS THAN 42".

PROPOSED 15'x11' OVERFLOW BOX CULVERT (STA 60+35) FOR PEDESTRIAN TRAIL TUNNEL UNDER COLUMBUS AVENUE. INVERT EL. 110 PROVIDE WATERWAY OPENING OF 150 SQ.FT. ⚠1

51 COLUMBUS AVENUE PROPERTY TO BE ACQUIRED BY THE CITY OF MERIDEN-REMOVE AND DISPOSE OF EXISTING BUILDINGS

REGRADE LEFT BANK FOR TRAIL AND NARROW FLOOD BENCH, 2:1 BANK SLOPES (STA 57+00 TO 78+58)

RECONSTRUCT EXISTING SEWER MANHOLE

INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)

CONSTRUCT 2:1 SIDE BANK SLOPES TURF ESTABLISHMENT (TYP.)

CONSTRUCT MASONRY/RUBBLE RETAINING WALL TO PROTECT EXISTING VEGETATION

RECONSTRUCT EXISTING SEWER MANHOLE

EXCAVATE FOR DEEP POOL IN BROOK CHANNEL

PROVIDE PROTECTION WHERE PROPOSED COVER OVER EXISTING SEWER MAIN IS LESS THAN 42".

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REVISIONS

1	03/02/2012
2	04/18/2012

PROPOSED CONDITIONS AND S&E CONTROLS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

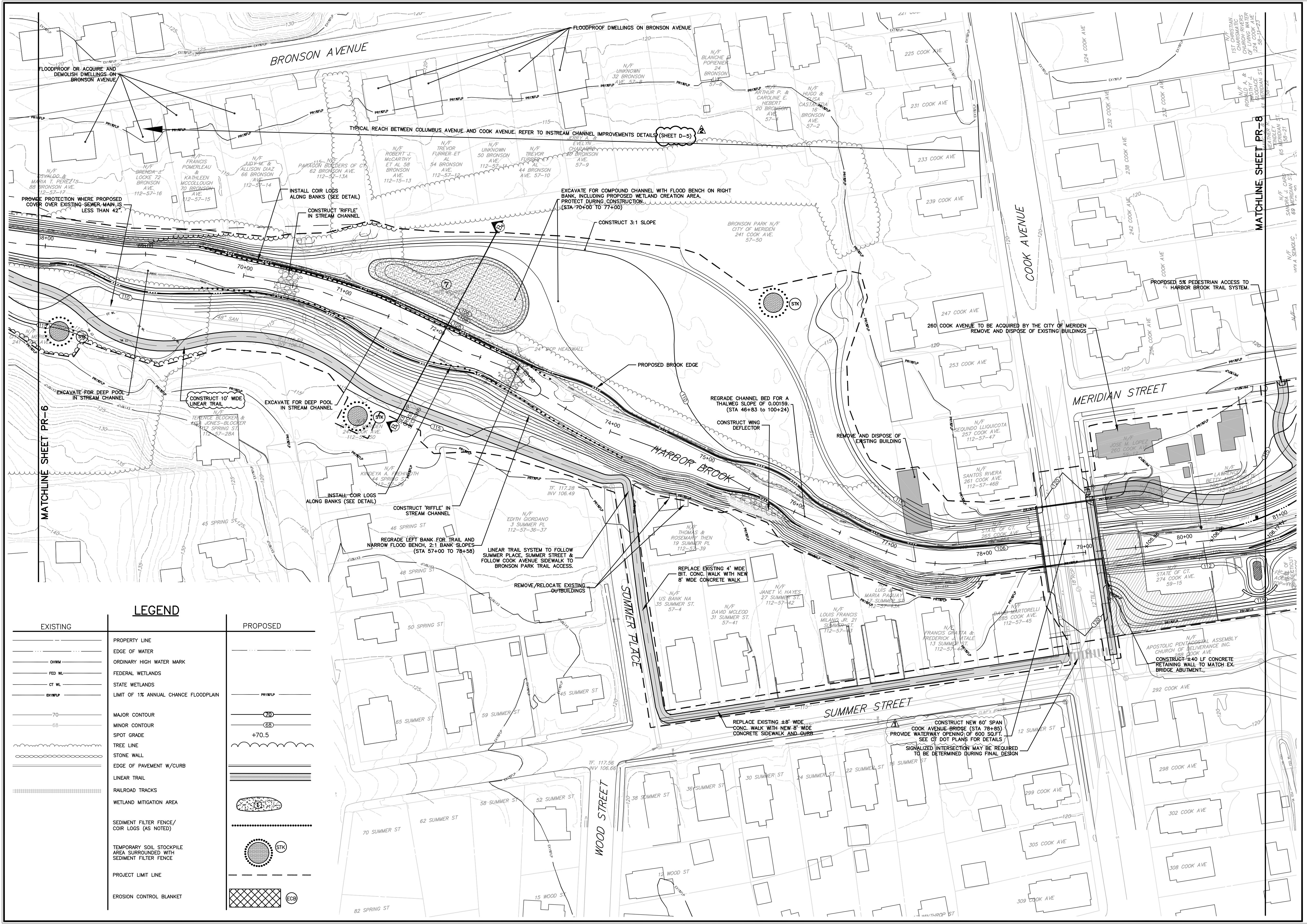
FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 43 OF 65

PR-6
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-1T09.DWG Layout Tab:PR-7
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:28am


BRONSON AVENUE
FLOODPROOF OR ACQUIRE AND DEMOLISH DWELLINGS ON BRONSON AVENUE
FLOODPROOF DWELLINGS ON BRONSON AVENUE
TYPICAL REACH BETWEEN COLUMBUS AVENUE AND COOK AVENUE. REFER TO INSTREAM CHANNEL IMPROVEMENTS DETAILS (SHEET D-5)
2
PROVIDE PROTECTION WHERE PROPOSED COVER OVER EXISTING SEWER MAIN IS LESS THAN 42".
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
CONSTRUCT 'RIFFLE' IN STREAM CHANNEL
EXCAVATE FOR COMPOUND CHANNEL WITH FLOOD BENCH ON RIGHT BANK, INCLUDING PROPOSED WETLAND CREATION AREA. PROTECT DURING CONSTRUCTION. (STA 70+00 TO 77+00)
CONSTRUCT 3:1 SLOPE
BRONSON PARK N/F CITY OF MERIDEN 241 COOK AVE. 57-50
MATCHLINE SHEET PR-6
MATCHLINE SHEET PR-8
EXCAVATE FOR DEEP POOL IN STREAM CHANNEL
CONSTRUCT 10' WIDE LINEAR TRAIL
EXCAVATE FOR DEEP POOL IN STREAM CHANNEL
SEE TYP. CROSS SECTIONS
INSTALL COIR LOGS ALONG BANKS (SEE DETAIL)
CONSTRUCT 'RIFFLE' IN STREAM CHANNEL
REGRADE LEFT BANK FOR TRAIL AND NARROW FLOOD BENCH, 2:1 BANK SLOPES (STA 57+00 TO 78+58)
LINEAR TRAIL SYSTEM TO FOLLOW SUMMER PLACE, SUMMER STREET & FOLLOW COOK AVENUE SIDEWALK TO BRONSON PARK TRAIL ACCESS.
REMOVE/RELOCATE EXISTING OUTBUILDINGS
PROPOSED BROOK EDGE
HARBOR BROOK
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00159. (STA 46+83 to 100+24)
CONSTRUCT WING DEFLECTOR
REMOVE AND DISPOSE OF EXISTING BUILDING
REPLACE EXISTING 4' WIDE BIT. CONC. WALK WITH NEW 8' WIDE CONCRETE WALK
SUMMER PLACE
SUMMER STREET
WOOD STREET
REPLACE EXISTING ±8' WIDE CONC. WALK WITH NEW 8' WIDE CONCRETE SIDEWALK AND CURB
1
CONSTRUCT NEW 60' SPAN COOK AVENUE BRIDGE (STA 78+85) PROVIDE WATERWAY OPENING OF 600 SQ.FT. SEE CT DOT PLANS FOR DETAILS
SIGNALIZED INTERSECTION MAY BE REQUIRED TO BE DETERMINED DURING FINAL DESIGN
COOK AVENUE
MERIDIAN STREET
260 COOK AVENUE TO BE ACQUIRED BY THE CITY OF MERIDEN REMOVE AND DISPOSE OF EXISTING BUILDINGS
PROPOSED 5% PEDESTRIAN ACCESS TO HARBOR BROOK TRAIL SYSTEM.
CONSTRUCT ±40 LF CONCRETE RETAINING WALL TO MATCH EX. BRIDGE ABUTMENT.
N/F APOSTOLIC PENTACOSTAL ASSEMBLY CHURCH OF DELIVERANCE INC. 288 COOK AVE
N/F STATE OF CT. 274 COOK AVE. 59-15
N/F JOSE M. LOPEZ 260 COOK AVE. 59-12
N/F LAWRENCE & BETTY ANN PINETTE 100 MERIDIAN ST. 113-59-11D
N/F STATE OF CT. 265 COOK AVE.
N/F SEQUNDO LLIQUICOTA 257 COOK AVE. 112-57-47
N/F SANTOS RIVERA 261 COOK AVE. 112-57-46B
N/F DAVID MARTORELLI 285 COOK AVE. 112-57-45
N/F FRANCIS GRATTA & FREDERICK J. VITALE 13 SUMMER ST. 112-57-44
N/F LUIS & MARIA PAQUAY 17 SUMMER ST. 112-57-43A
N/F LOUIS FRANCIS MILANO JR. 21 SUMMER ST. 112-57-43
N/F JANET V. HAYES 27 SUMMER ST. 112-57-42
N/F DAVID MCLEOD 31 SUMMER ST. 57-41
N/F US BANK NA 35 SUMMER ST. 57-4
N/F THOMAS & ROSEMARY THEN 19 SUMMER PL 112-57-39
N/F EDITH GIORDANO 3 SUMMER PL 112-57-36-37
N/F KINDEYA A. FREHIWOTH 44 SPRING ST. 112-57-29
N/F CITY OF MERIDEN 241 COOK AVE. 112-57-50
N/F TERENCE BLOCKER & LISA JONES-BLOCKER 37 SPRING ST. 112-57-28A
N/F OSVALDO & MARIA T. PEREZ 88 BRONSON AVE. 112-57-17
N/F BRENDA J. LOCKE 72 BRONSON AVE. 112-57-16
N/F FRANCIS POMERLEAU & KATHLEEN MCCOLLOUGH 70 BRONSON AVE. 112-57-15
N/F JUDY M. & ALLISON DIAZ 66 BRONSON AVE. 112-57-14
N/F PARAGON BUILDERS OF CT. 62 BRONSON AVE. 112-57-13A
N/F ROBERT J. McCARTHY ET AL 58 BRONSON AVE. 112-15-13
N/F TREVOR FURRER ET AL 54 BRONSON AVE. 112-57-12
N/F UNKNOWN 50 BRONSON AVE. 112-57-11
N/F TREVOR FURRER ET AL 44 BRONSON AVE. 57-10
N/F JERRY A. & EVELYN CHAPARRO 36 BRONSON AVE. 57-9
N/F UNKNOWN 32 BRONSON AVE. 57-8
N/F BLANCHE E. POPIENIEK 24 BRONSON AVE. 57-6
N/F ARTHUR P. & CAROLINE E. HEBERT 20 BRONSON AVE. 57-4
N/F HUGO & ELISA CASTANEDA 16 BRONSON AVE. 57-2
N/F 1ST CHRISTIAN CHRISMATIC CHURCH RIVERS OF LIVING WATER 224 COOK AVE 58-11-23
N/F RONALD A. & TIMOTHY J. GUODACE 61 MERIDIAN ST. 58-22
N/F HEATHER R. & MARCUS R. FINDLEY 65 MERIDIAN ST. 58-21
N/F SANDRA J. CARD 69 MERIDIAN ST.
N/F VIOLA SEMOLIC
225 COOK AVE
231 COOK AVE
233 COOK AVE
239 COOK AVE
247 COOK AVE
253 COOK AVE
224 COOK AVE
232 COOK AVE
238 COOK AVE
242 COOK AVE
256 COOK AVE
292 COOK AVE
298 COOK AVE
299 COOK AVE
302 COOK AVE
305 COOK AVE
308 COOK AVE
309 COOK AVE
45 SPRING ST
46 SPRING ST
48 SPRING ST
50 SPRING ST
82 SPRING ST
12 SUMMER ST
16 SUMMER ST
22 SUMMER ST
24 SUMMER ST
30 SUMMER ST
36 SUMMER ST
38 SUMMER ST
45 SUMMER ST
52 SUMMER ST
58 SUMMER ST
62 SUMMER ST
65 SUMMER ST
70 SUMMER ST
99 SUMMER ST
12 WOOD ST
15 WOOD ST
68+00
69+00
70+00
71+00
72+00
74+00
75+00
76+00
77+00
78+00
79+00
80+00
81+00
48" SAN
24" RCP HEADWALL
TF. 116.59 INV 106.13
TF. 117.28 INV 106.49
TF. 117.56 INV 106.66
18"RCP
15"RCP
12"TILE
STK
7

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	WETLAND MITIGATION AREA	1
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	
	EROSION CONTROL BLANKET	ECB

0 20' 40'

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PROPOSED CONDITIONS AND S&E CONTROLS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

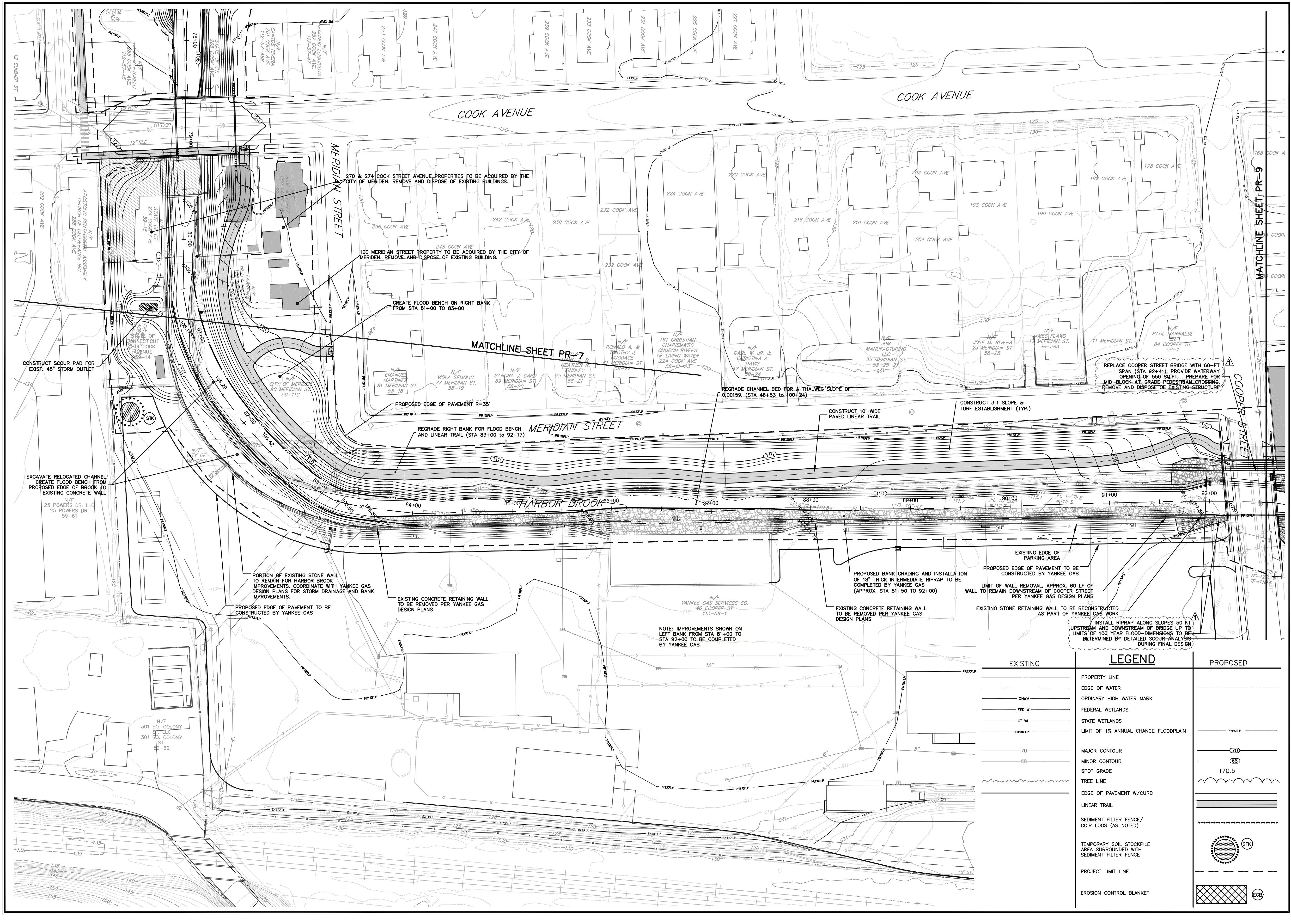
SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 44 OF 65

PR-7
SHEET NO.


COOK AVENUE
COOK AVENUE
MERIDIAN STREET
MERIDIAN STREET
COOPER STREET
HARBOR BROOK
MATCHLINE SHEET PR-7
MATCHLINE SHEET PR-9
12 SUMMER ST
292 COOK AVE
N/F APOSTOLIC PENTECOSTAL ASSEMBLY CHURCH OF DELIVERANCE INC. 288 COOK AVE
STATE OF CT. 274 COOK AVE. 59-15
N/F STATE OF CONNECTICUT 274 COOK AVENUE 59-14
N/F JOSE M. LOPEZ 260 COOK AVE
N/F BETTY LAWRENCE 100 MERIDIAN ST
N/F CITY OF MERIDEN 90 MERIDIAN ST. 59-11C
N/F CITY OF MERIDEN
N/F 25 POWERS DR. LLC 25 POWERS DR. 59-61
N/F 301 SO. COLONY ST. LLC 301 SO. COLONY ST. 59-62
N/F YANKEE GAS SERVICES CO. 46 COOPER ST. 113-59-1
N/F EMANUEL MARTINEZ 81 MERIDIAN ST. 58-18
N/F VIOLA SEMOLIC 77 MERIDIAN ST. 58-19
N/F SANDRA J. CARD 69 MERIDIAN ST. 58-20
N/F MARC & HEATHER FINDLEY 65 MERIDIAN ST. 58-21
N/F RONALD A. & TIMOTHY J. SUDDACE 61 MERIDIAN ST.
N/F 1ST CHRISTIAN CHARISMATIC CHURCH RIVERS OF LIVING WATER 224 COOK AVE 58-11-23
N/F CARL W. JR. & CHRISTINA A. DAVIS 47 MERIDIAN ST. 58-24
N/F JDM MANUFACTURING LLC 35 MERIDIAN ST. 58-25-27
N/F JOSE M. RIVERA 23 MERIDIAN ST. 58-28
N/F JAMES FLAWS 17 MERIDIAN ST. 58-28A
11 MERIDIAN ST.
N/F PAUL MARNALSE SR. 84 COOPER ST. 58-1
256 COOK AVE
248 COOK AVE
242 COOK AVE
238 COOK AVE
232 COOK AVE
224 COOK AVE
220 COOK AVE
216 COOK AVE
210 COOK AVE
204 COOK AVE
202 COOK AVE
198 COOK AVE
190 COOK AVE
182 COOK AVE
178 COOK AVE
168 COOK AVE
253 COOK AVE
247 COOK AVE
239 COOK AVE
233 COOK AVE
231 COOK AVE
225 COOK AVE
221 COOK AVE
79+00
80+00
81+00
82+00
83+00
84+00
85+00
86+00
87+00
88+00
89+00
90+00
91+00
92+00
18"RCP
12"TILE
STK
PR1%FLP
EX1%FLP
OHWM

270 & 274 COOK STREET AVENUE PROPERTIES TO BE ACQUIRED BY THE CITY OF MERIDEN. REMOVE AND DISPOSE OF EXISTING BUILDINGS.

100 MERIDIAN STREET PROPERTY TO BE ACQUIRED BY THE CITY OF MERIDEN. REMOVE AND DISPOSE OF EXISTING BUILDING.

CREATE FLOOD BENCH ON RIGHT BANK FROM STA 81+00 TO 83+00

CONSTRUCT SCOUR PAD FOR EXIST. 48" STORM OUTLET

PROPOSED EDGE OF PAVEMENT R=35'

REGRADE RIGHT BANK FOR FLOOD BENCH AND LINEAR TRAIL (STA 83+00 to 92+17)

EXCAVATE RELOCATED CHANNEL CREATE FLOOD BENCH FROM PROPOSED EDGE OF BROOK TO EXISTING CONCRETE WALL

PORTION OF EXISTING STONE WALL TO REMAIN FOR HARBOR BROOK IMPROVEMENTS. COORDINATE WITH YANKEE GAS DESIGN PLANS FOR STORM DRAINAGE AND BANK IMPROVEMENTS.

PROPOSED EDGE OF PAVEMENT TO BE CONSTRUCTED BY YANKEE GAS

EXISTING CONCRETE RETAINING WALL TO BE REMOVED PER YANKEE GAS DESIGN PLANS

NOTE: IMPROVEMENTS SHOWN ON LEFT BANK FROM STA 81+00 TO STA 92+00 TO BE COMPLETED BY YANKEE GAS.

REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00159. (STA 46+83 to 100+24)

CONSTRUCT 10' WIDE PAVED LINEAR TRAIL

CONSTRUCT 3:1 SLOPE & TURF ESTABLISHMENT (TYP.)

REPLACE COOPER STREET BRIDGE WITH 60-FT SPAN (STA 92+41), PROVIDE WATERWAY OPENING OF 550 SQ.FT. . PREPARE FOR MID-BLOCK AT-GRADE PEDESTRIAN CROSSING. REMOVE AND DISPOSE OF EXISTING STRUCTURE 1

PROPOSED BANK GRADING AND INSTALLATION OF 18" THICK INTERMEDIATE RIPRAP TO BE COMPLETED BY YANKEE GAS (APPROX. STA 81+50 TO 92+00)

EXISTING CONCRETE RETAINING WALL TO BE REMOVED PER YANKEE GAS DESIGN PLANS

EXISTING EDGE OF PARKING AREA

PROPOSED EDGE OF PAVEMENT TO BE CONSTRUCTED BY YANKEE GAS

LIMIT OF WALL REMOVAL, APPROX. 60 LF OF WALL TO REMAIN DOWNSTREAM OF COOPER STREET PER YANKEE GAS DESIGN PLANS

EXISTING STONE RETAINING WALL TO BE RECONSTRUCTED AS PART OF YANKEE GAS WORK

INSTALL RIPRAP ALONG SLOPES 50 FT UPSTREAM AND DOWNSTREAM OF BRIDGE UP TO LIMITS OF 100 YEAR FLOOD-DIMENSIONS TO BE DETERMINED BY DETAILED SCOUR ANALYSIS DURING FINAL DESIGN 1

LEGEND

EXISTING		PROPOSED
— — —	PROPERTY LINE	
— · · · —	EDGE OF WATER	— · · · —
— OHWM —	ORDINARY HIGH WATER MARK	
— FED WL —	FEDERAL WETLANDS	
— CT WL —	STATE WETLANDS	
— EX1%FLP —	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	— PR1%FLP —
— 70 —	MAJOR CONTOUR	— (70) —
— 68 —	MINOR CONTOUR	— (68) —
	SPOT GRADE	+70.5
⌒⌒⌒	TREE LINE	⌒⌒⌒
═	EDGE OF PAVEMENT W/CURB	═
	LINEAR TRAIL	▤
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	••••••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	● STK
	PROJECT LIMIT LINE	— — —
	EROSION CONTROL BLANKET	▩ ECB

0 20' 40'

MILONE & MACBROOM®
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REVISIONS
1 03/02/2012
2 04/18/2012

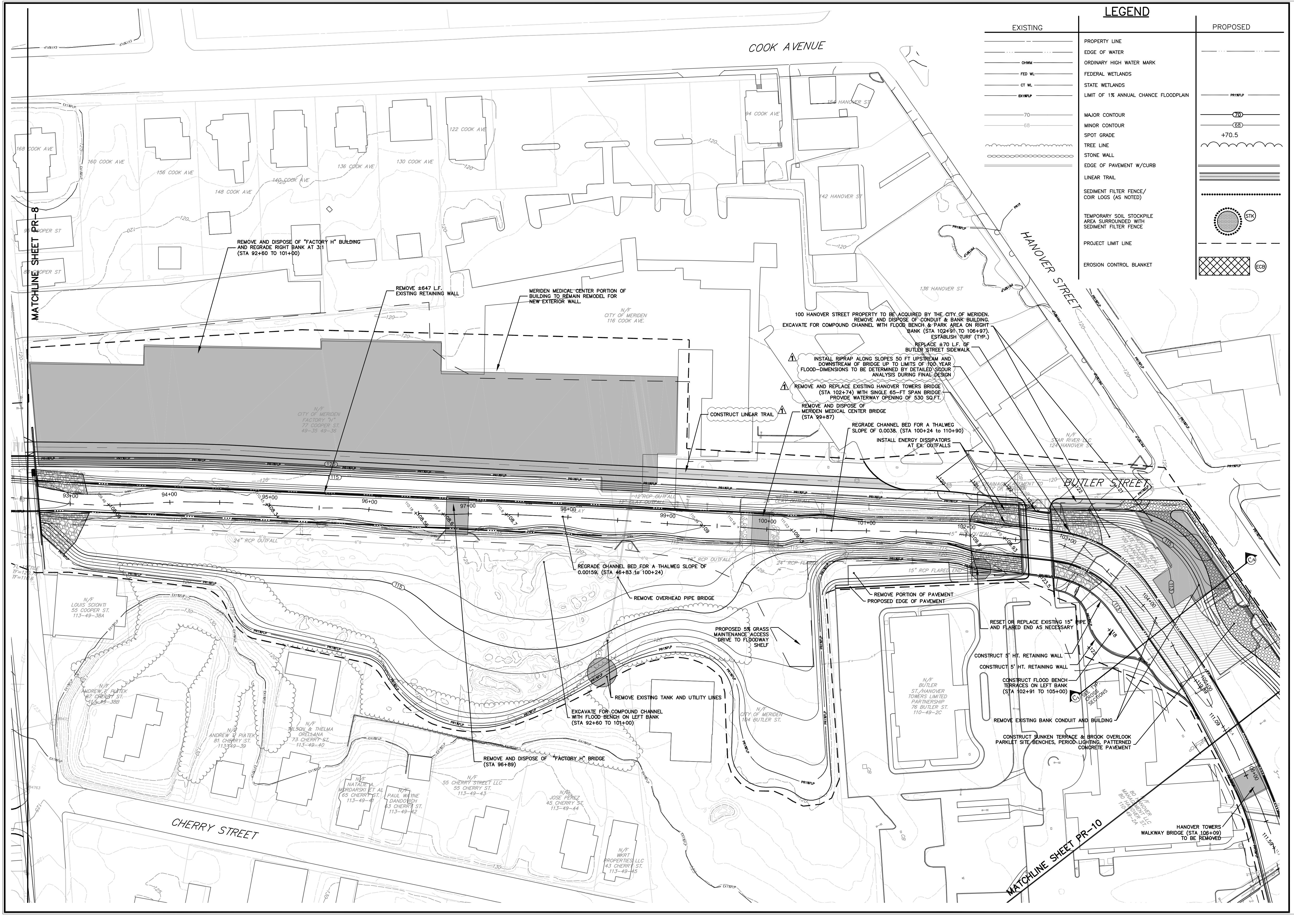
PROPOSED CONDITIONS AND S&E CONTROLS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 45 OF 65

PR-8
SHEET NO.


COOK AVENUE
HANOVER STREET
BUTLER STREET
CHERRY STREET
MATCHLINE SHEET PR-8
MATCHLINE SHEET PR-10
REMOVE AND DISPOSE OF "FACTORY H" BUILDING AND REGRADE RIGHT BANK AT 3:1 (STA 92+60 TO 101+00)
REMOVE ±647 L.F. EXISTING RETAINING WALL
MERIDEN MEDICAL CENTER PORTION OF BUILDING TO REMAIN REMODEL FOR NEW EXTERIOR WALL.
N/F CITY OF MERIDEN 116 COOK AVE.
N/F CITY OF MERIDEN FACTORY "H" 77 COOPER ST. 49-35 49-36
100 HANOVER STREET PROPERTY TO BE ACQUIRED BY THE CITY OF MERIDEN. REMOVE AND DISPOSE OF CONDUIT & BANK BUILDING. EXCAVATE FOR COMPOUND CHANNEL WITH FLOOD BENCH & PARK AREA ON RIGHT BANK (STA 102+91 TO 106+97). ESTABLISH TURF (TYP.)
REPLACE ±70 L.F. OF BUTLER STREET SIDEWALK
1 INSTALL RIPRAP ALONG SLOPES 50 FT UPSTREAM AND DOWNSTREAM OF BRIDGE UP TO LIMITS OF 100 YEAR FLOOD–DIMENSIONS TO BE DETERMINED BY DETAILED SCOUR ANALYSIS DURING FINAL DESIGN
1 REMOVE AND REPLACE EXISTING HANOVER TOWERS BRIDGE (STA 102+74) WITH SINGLE 65–FT SPAN BRIDGE PROVIDE WATERWAY OPENING OF 530 SQ.FT.
CONSTRUCT LINEAR TRAIL 1
REMOVE AND DISPOSE OF MERIDEN MEDICAL CENTER BRIDGE (STA 99+87)
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.0038. (STA 100+24 to 110+90)
INSTALL ENERGY DISSIPATORS AT EX. OUTFALLS
N/F STAR RIVER LLC 124 HANOVER ST.
136 HANOVER ST
142 HANOVER ST
94 COOK AVE
122 COOK AVE
130 COOK AVE
136 COOK AVE
140 COOK AVE
148 COOK AVE
156 COOK AVE
160 COOK AVE
168 COOK AVE
93+00
94+00
95+00
96+00
97+00
98+00
99+00
100+00
101+00
102+00
103+00
104+00
24" RCP OUTFALL
18" RCP OUTFALL
15" RCP FLARED END
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.00159. (STA 46+83 to 100+24)
REMOVE OVERHEAD PIPE BRIDGE
REMOVE PORTION OF PAVEMENT
PROPOSED EDGE OF PAVEMENT
PROPOSED 5% GRASS MAINTENANCE ACCESS DRIVE TO FLOODWAY SHELF
REMOVE EXISTING TANK AND UTILITY LINES
EXCAVATE FOR COMPOUND CHANNEL WITH FLOOD BENCH ON LEFT BANK (STA 92+60 TO 101+00)
REMOVE AND DISPOSE OF "FACTORY H" BRIDGE (STA 96+89)
N/F CITY OF MERIDEN 104 BUTLER ST.
N/F BUTLER ST./HANOVER TOWERS LIMITED PARTNERSHIP 76 BUTLER ST. 110-49-2C
RESET OR REPLACE EXISTING 15" PIPE AND FLARED END AS NECESSARY
CONSTRUCT 5' HT. RETAINING WALL
CONSTRUCT 5' HT. RETAINING WALL
CONSTRUCT FLOOD BENCH TERRACES ON LEFT BANK (STA 102+91 TO 105+00)
C1 SEE TYP. CROSS SECTIONS
REMOVE EXISTING BANK CONDUIT AND BUILDING
CONSTRUCT SUNKEN TERRACE & BROOK OVERLOOK PARKLET SITE BENCHES, PERIOD LIGHTING, PATTERNED CONCRETE PAVEMENT
N/F 80 HANOVER MANAGEMENT LLC 80 HANOVER ST. 110-49-2A
HANOVER TOWERS WALKWAY BRIDGE (STA 106+09) TO BE REMOVED
N/F LOUIS SCIONTI 55 COOPER ST. 113-49-38A
N/F ANDREW & PIATEK 87 CHERRY ST. 113-49-38B
N/F ANDREW & PIATEK 81 CHERRY ST. 113-49-39
N/F NELSON & THELMA ORELLANA 73 CHERRY ST. 113-49-40
N/F NATALIE A. MORDARSKI ET AL 65 CHERRY ST. 113-49-41
N/F PAUL WAYNE DANDOVICH 63 CHERRY ST. 113-49-42
N/F 55 CHERRY STREET LLC 55 CHERRY ST. 113-49-43
N/F JOSE PEREZ 45 CHERRY ST. 113-49-44
N/F WKRT PROPERTIES LLC 43 CHERRY ST. 113-49-45
0 20' 40'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	LINEAR TRAIL	
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	
	EROSION CONTROL BLANKET	▨ ECB

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DESIGNED	DRAWN	CHECKED

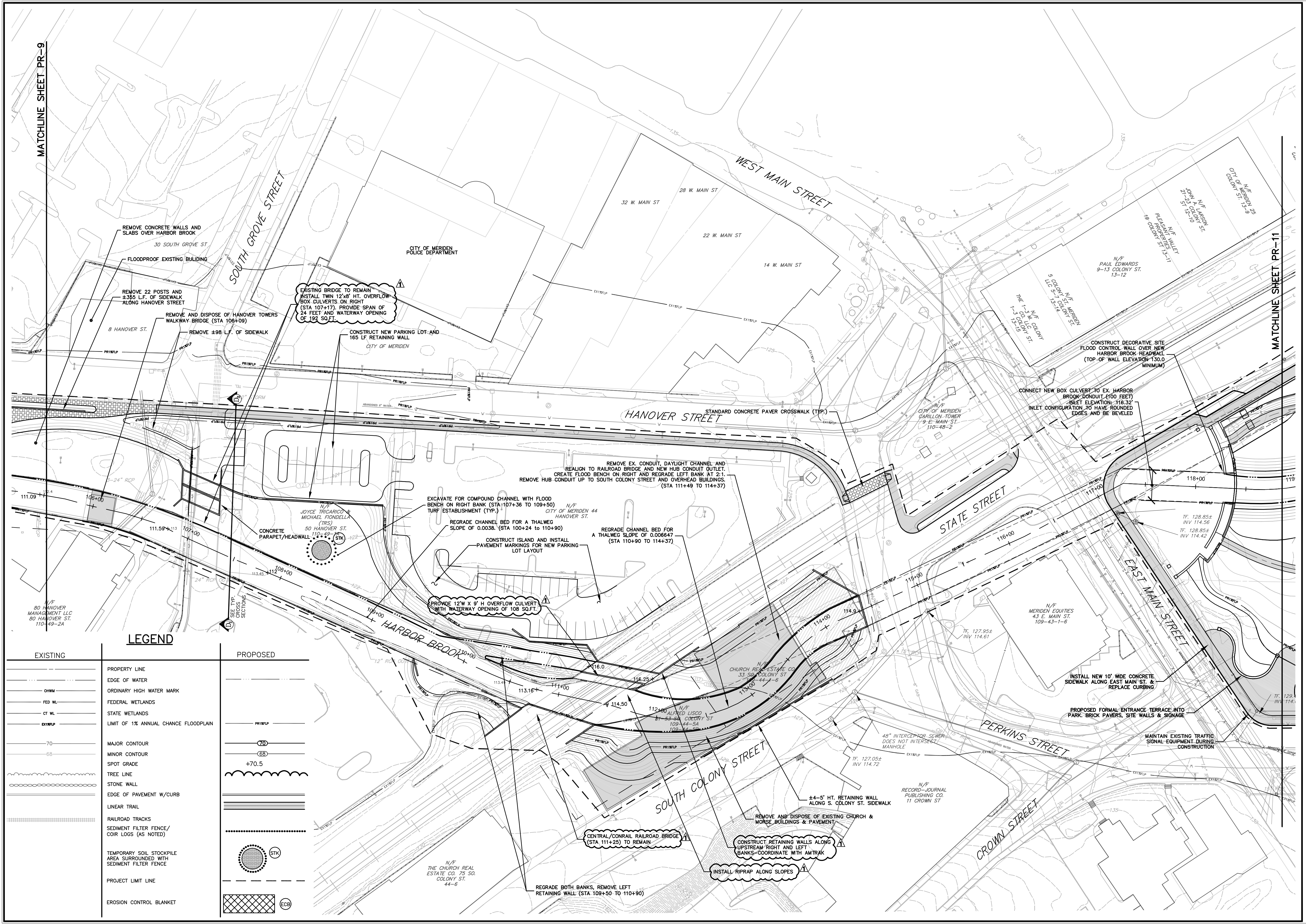
SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 46 OF 65

SHEET NO. **PR-9**


MATCHLINE SHEET PR-9
MATCHLINE SHEET PR-11
REMOVE CONCRETE WALLS AND SLABS OVER HARBOR BROOK
30 SOUTH GROVE ST
FLOODPROOF EXISTING BULIDING
REMOVE 22 POSTS AND ±355 L.F. OF SIDEWALK ALONG HANOVER STREET
REMOVE AND DISPOSE OF HANOVER TOWERS WALKWAY BRIDGE (STA 106+09)
REMOVE ±98 L.F. OF SIDEWALK
8 HANOVER ST.
SOUTH GROVE STREET
CITY OF MERIDEN POLICE DEPARTMENT
EXISTING BRIDGE TO REMAIN INSTALL TWIN 12'x8' HT. OVERFLOW BOX CULVERTS ON RIGHT (STA 107+17). PROVIDE SPAN OF 24 FEET AND WATERWAY OPENING OF 192 SQ.FT.
1
CONSTRUCT NEW PARKING LOT AND 165 LF RETAINING WALL
CITY OF MERIDEN
32 W. MAIN ST
28 W. MAIN ST
22 W. MAIN ST
14 W. MAIN ST
WEST MAIN STREET
N/F CITY OF MERIDEN 25 COLONY ST. 13-9
N/F JOHN A. LARSON 21-23 COLONY ST. 12-10
N/F PLEASANT VALLEY PROPERTIES 19 COLONY ST. 13-11
N/F PAUL EDWARDS 9-13 COLONY ST. 13-12
N/F ST. MERIDEN 5-7 COLONY ST. 13-14
N/F THE 1-3 M. COLONY CO. LLC 1-3 COLONY ST. 13-15
CONSTRUCT DECORATIVE SITE FLOOD CONTROL WALL OVER NEW HARBOR BROOK HEADWALL (TOP OF WALL ELEVATION 130.0 MINIMUM)
CONNECT NEW BOX CULVERT TO EX. HARBOR BROOK CONDUIT (100 FEET) INLET ELEVATION: 116.32' INLET CONFIGURATION TO HAVE ROUNDED EDGES AND BE BEVELED
HANOVER STREET
STANDARD CONCRETE PAVER CROSSWALK (TYP.)
N/F CITY OF MERIDEN 9 E. MAIN ST 110-48-2
REMOVE EX. CONDUIT, DAYLIGHT CHANNEL AND REALIGN TO RAILROAD BRIDGE AND NEW HUB CONDUIT OUTLET. CREATE FLOOD BENCH ON RIGHT AND REGRADE LEFT BANK AT 2:1. REMOVE HUB CONDUIT UP TO SOUTH COLONY STREET AND OVERHEAD BUILDINGS. (STA 111+49 TO 114+37)
EXCAVATE FOR COMPOUND CHANNEL WITH FLOOD BENCH ON RIGHT BANK (STA 107+36 TO 109+50) TURF ESTABLISHMENT (TYP.)
N/F CITY OF MERIDEN 44 HANOVER ST.
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.0038. (STA 100+24 to 110+90)
CONSTRUCT ISLAND AND INSTALL PAVEMENT MARKINGS FOR NEW PARKING LOT LAYOUT
REGRADE CHANNEL BED FOR A THALWEG SLOPE OF 0.006647 (STA 110+90 TO 114+37)
N/F JOYCE TRICARICO MICHAEL FIONDELLA (TRS) 50 HANOVER ST. 110-49-
STK
CONCRETE PARAPET/HEADWALL
111.09
106+00
111.59
107+00
108+00
113.45
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
116.0
116.25
113.16
114.50
114.9
PROVIDE 12'W X 9' H OVERFLOW CULVERT WITH WATERWAY OPENING OF 108 SQ.FT.
N/F 80 HANOVER MANAGEMENT LLC 80 HANOVER ST. 110-49-2A
SEE TYP. CROSS SECTIONS
D1
HARBOR BROOK
STATE STREET
EAST MAIN STREET
TF. 128.85± INV 114.56
TF. 128.85± INV 114.42
N/F MERIDEN EQUITIES 43 E. MAIN ST. 109-43-1-6
TF. 127.95± INV 114.61
INSTALL NEW 10' WIDE CONCRETE SIDEWALK ALONG EAST MAIN ST. & REPLACE CURBING
PROPOSED FORMAL ENTRANCE TERRACE INTO PARK. BRICK PAVERS, SITE WALLS & SIGNAGE
MAINTAIN EXISTING TRAFFIC SIGNAL EQUIPMENT DURING CONSTRUCTION
PERKINS STREET
N/F CHURCH REAL ESTATE CO 33 SO. COLONY ST 44-1-6
N/F ALFRED LISCO 41-53 SO. COLONY ST 109-44-5A
48" INTERCEPTOR SEWER DOES NOT INTERSECT MANHOLE
TF. 127.05± INV 114.72
SOUTH COLONY STREET
±4-5' HT. RETAINING WALL ALONG S. COLONY ST. SIDEWALK
REMOVE AND DISPOSE OF EXISTING CHURCH & MORSE BUILDINGS & PAVEMENT
N/F RECORD-JOURNAL PUBLISHING CO. 11 CROWN ST
CROWN STREET
CENTRAL/CONRAIL RAILROAD BRIDGE (STA 111+25) TO REMAIN
CONSTRUCT RETAINING WALLS ALONG UPSTREAM RIGHT AND LEFT BANKS-COORDINATE WITH AMTRAK
INSTALL RIPRAP ALONG SLOPES
N/F THE CHURCH REAL ESTATE CO. 75 SO. COLONY ST. 44-6
REGRADE BOTH BANKS, REMOVE LEFT RETAINING WALL (STA 109+50 TO 110+90)
EX1%FLP
PR1%FLP

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
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	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	
	EROSION CONTROL BLANKET	ECB

0 20' 40'

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SCALE 1"=40'

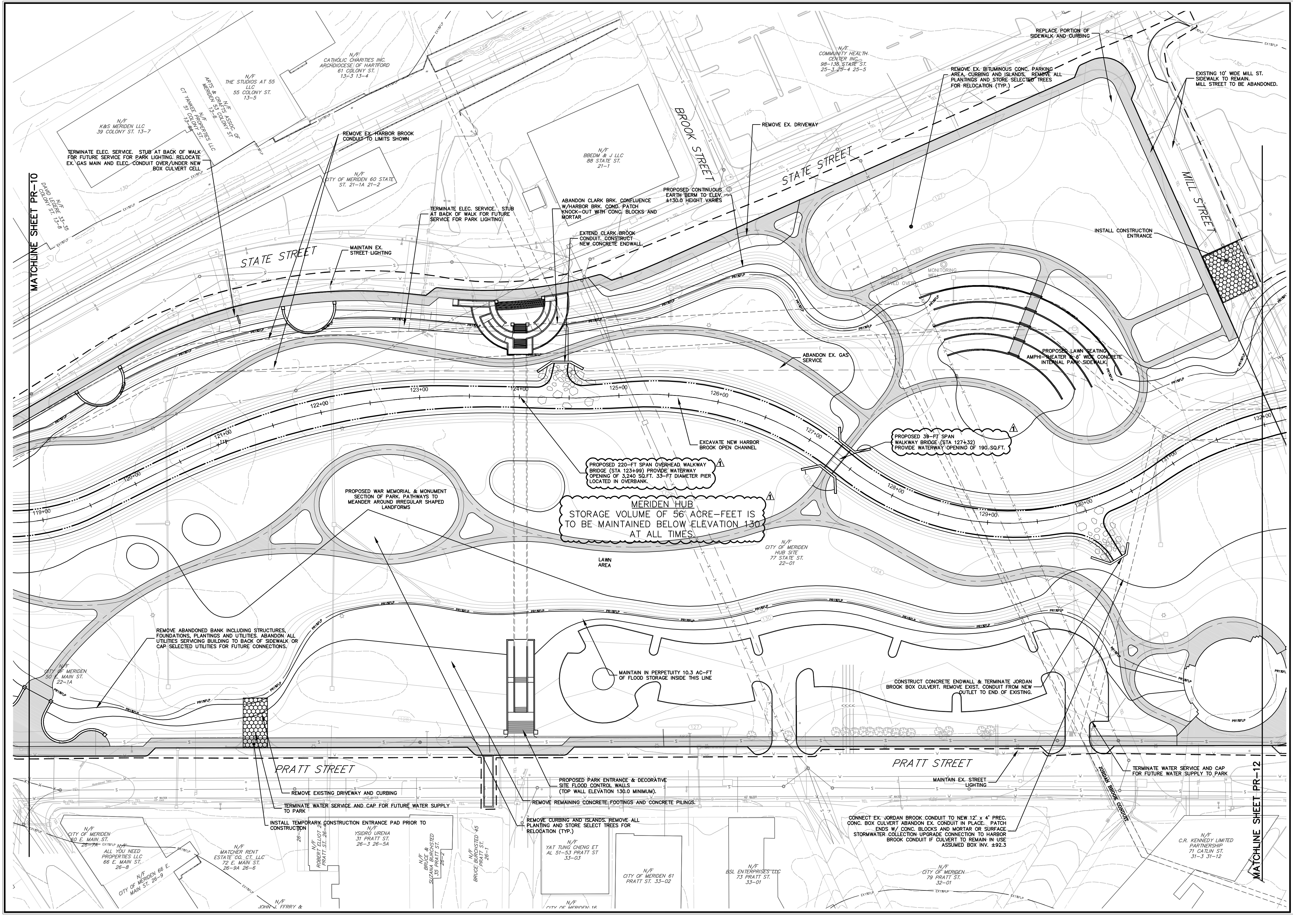
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 47 OF 65

PR-10
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-10TO18.DWG Layout Tab:PR-11
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:18am


MATCHLINE SHEET PR-10
MATCHLINE SHEET PR-12
N/F K&S MERIDEN LLC 39 COLONY ST. 13-7
N/F CT YANKEE PROPERTIES LLC 51 COLONY ST. 13-6A
N/F ARTS & CRAFTS ASSOC. OF MERIDEN 53 COLONY ST 13-6
N/F THE STUDIOS AT 55 LLC 55 COLONY ST. 13-5
N/F CATHOLIC CHARITIES INC. ARCHDIOCESE OF HARTFORD 61 COLONY ST. 13-3 13-4
N/F DAVID LEGERE 33-35 COLONY ST. 13-8
N/F CITY OF MERIDEN 60 STATE ST. 21-1A 21-2
N/F BBEDM & J LLC 88 STATE ST. 21-1
N/F COMMUNITY HEALTH CENTER INC. 98-136 STATE ST. 25-3 25-4 25-5
BROOK STREET
STATE STREET
MILL STREET
PRATT STREET
JORDAN BROOK CONDUIT
TERMINATE ELEC. SERVICE. STUB AT BACK OF WALK FOR FUTURE SERVICE FOR PARK LIGHTING. RELOCATE EX. GAS MAIN AND ELEC. CONDUIT OVER/UNDER NEW BOX CULVERT CELL
REMOVE EX. HARBOR BROOK CONDUIT TO LIMITS SHOWN
TERMINATE ELEC. SERVICE. STUB AT BACK OF WALK FOR FUTURE SERVICE FOR PARK LIGHTING
MAINTAIN EX. STREET LIGHTING
ABANDON CLARK BRK. CONFLUENCE W/HARBOR BRK. COND. PATCH KNOCK-OUT WITH CONC. BLOCKS AND MORTAR
EXTEND CLARK BROOK CONDUIT. CONSTRUCT NEW CONCRETE ENDWALL.
PROPOSED CONTINUOUS EARTH BERM TO ELEV. ±130.0 HEIGHT VARIES
REMOVE EX. DRIVEWAY
REMOVE EX. BITUMINOUS CONC. PARKING AREA, CURBING AND ISLANDS. REMOVE ALL PLANTINGS AND STORE SELECTED TREES FOR RELOCATION (TYP.)
REPLACE PORTION OF SIDEWALK AND CURBING
EXISTING 10' WIDE MILL ST. SIDEWALK TO REMAIN. MILL STREET TO BE ABANDONED.
INSTALL CONSTRUCTION ENTRANCE
MANHOLE (PAVED OVER)
MONITORING WELL
PROPOSED LAWN SEATING AMPHI-THEATER & 6' WIDE CONCRETE INTERNAL PARK SIDEWALK.
ABANDON EX. GAS SERVICE
EXCAVATE NEW HARBOR BROOK OPEN CHANNEL
PROPOSED 39-FT SPAN WALKWAY BRIDGE (STA 127+32) PROVIDE WATERWAY OPENING OF 190 SQ.FT.
PROPOSED 220-FT SPAN OVERHEAD WALKWAY BRIDGE (STA 123+99) PROVIDE WATERWAY OPENING OF 3,240 SQ.FT. 33-FT DIAMETER PIER LOCATED IN OVERBANK.
MERIDEN HUB
STORAGE VOLUME OF 56 ACRE-FEET IS TO BE MAINTAINED BELOW ELEVATION 130 AT ALL TIMES.
1
119+00
120+00
121+00
122+00
123+00
124+00
125+00
126+00
127+00
128+00
129+00
130+00
131+00
132+00
PROPOSED WAR MEMORIAL & MONUMENT SECTION OF PARK. PATHWAYS TO MEANDER AROUND IRREGULAR SHAPED LANDFORMS
LAWN AREA
N/F CITY OF MERIDEN HUB SITE 77 STATE ST. 22-01
REMOVE ABANDONED BANK INCLUDING STRUCTURES, FOUNDATIONS, PLANTINGS AND UTILITIES. ABANDON ALL UTILITIES SERVICING BUILDING TO BACK OF SIDEWALK OR CAP SELECTED UTILITIES FOR FUTURE CONNECTIONS.
N/F CITY OF MERIDEN 50 E. MAIN ST. 22-1A
MAINTAIN IN PERPETUITY 10.3 AC-FT OF FLOOD STORAGE INSIDE THIS LINE
CONSTRUCT CONCRETE ENDWALL & TERMINATE JORDAN BROOK BOX CULVERT. REMOVE EXIST. CONDUIT FROM NEW OUTLET TO END OF EXISTING.
REMOVE EXISTING DRIVEWAY AND CURBING
TERMINATE WATER SERVICE AND CAP FOR FUTURE WATER SUPPLY TO PARK
INSTALL TEMPORARY CONSTRUCTION ENTRANCE PAD PRIOR TO CONSTRUCTION
PROPOSED PARK ENTRANCE & DECORATIVE SITE FLOOD CONTROL WALLS (TOP WALL ELEVATION 130.0 MINIMUM).
REMOVE REMAINING CONCRETE FOOTINGS AND CONCRETE PILINGS.
REMOVE CURBING AND ISLANDS. REMOVE ALL PLANTING AND STORE SELECT TREES FOR RELOCATION (TYP.)
MAINTAIN EX. STREET LIGHTING
CONNECT EX. JORDAN BROOK CONDUIT TO NEW 12' x 4' PREC. CONC. BOX CULVERT ABANDON EX. CONDUIT IN PLACE. PATCH ENDS W/ CONC. BLOCKS AND MORTAR OR SURFACE STORMWATER COLLECTION UPGRADE CONNECTION TO HARBOR BROOK CONDUIT IF CULVERT TO REMAIN IN USE ASSUMED BOX INV. ±92.3
TERMINATE WATER SERVICE AND CAP FOR FUTURE WATER SUPPLY TO PARK
N/F CITY OF MERIDEN 60 E. MAIN ST. 26-7A
N/F ALL YOU NEED PROPERTIES LLC 66 E. MAIN ST. 26-8
N/F CITY OF MERIDEN 66 E. MAIN ST. 26-9
N/F MATCHER RENT ESTATE CO. CT. LLC 72 E. MAIN ST. 26-9A 26-6
N/F JOHN J. FERRY &
N/F ROBERT ELLIOT 29 PRATT ST. 26-4
N/F YSIDRO URENA 31 PRATT ST. 26-3 26-5A
N/F BRUCE & SUZANA BURCHSTED 35 PRATT ST. 26-2
N/F BRUCE BURCHSTED 45 PRATT ST. 26-1
N/F YAT TUNG CHENG ET AL 51-53 PRATT ST 33-03
N/F CITY OF MERIDEN 61 PRATT ST. 33-02
N/F CITY OF MERIDEN 16
N/F BSL ENTERPRISES LLC 73 PRATT ST. 33-01
N/F CITY OF MERIDEN 79 PRATT ST. 32-01
N/F C.R. KENNEDY LIMITED PARTNERSHIP 71 CATLIN ST. 31-3 31-12
EX1%FLP
PR1%FLP
10" WATER
12" WATER
N
0 20' 40'

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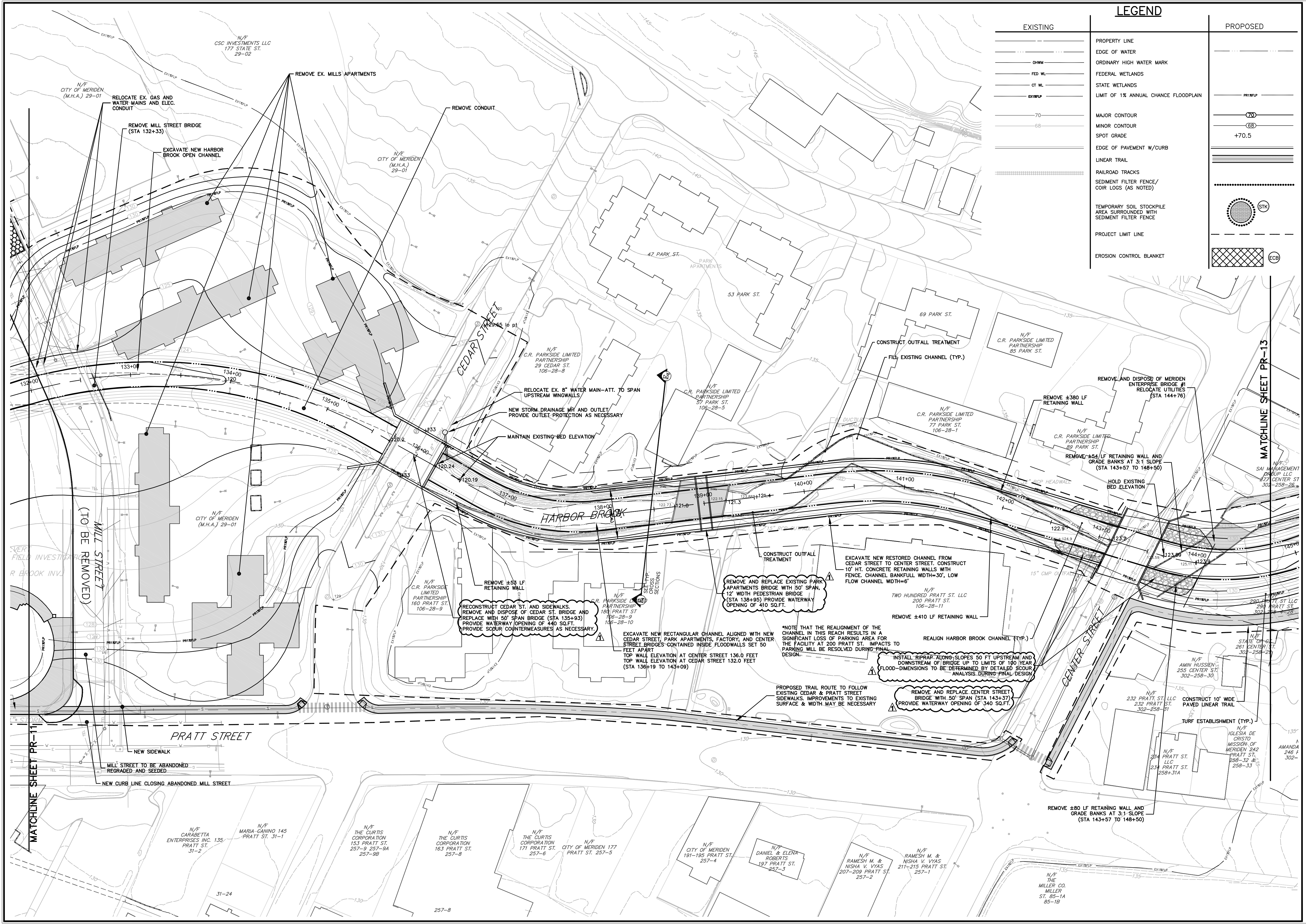
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 48 OF 65

PR-11
SHEET NO.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+70.5
EDGE OF PAVEMENT W/CURB
LINEAR TRAIL
RAILROAD TRACKS
SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)
TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE
STK
PROJECT LIMIT LINE
EROSION CONTROL BLANKET
ECB
N/F CSC INVESTMENTS LLC 177 STATE ST. 29-02
N/F CITY OF MERIDEN (M.H.A.) 29-01
REMOVE EX. MILLS APARTMENTS
RELOCATE EX. GAS AND WATER MAINS AND ELEC. CONDUIT
REMOVE MILL STREET BRIDGE (STA 132+33)
EXCAVATE NEW HARBOR BROOK OPEN CHANNEL
REMOVE CONDUIT
N/F CITY OF MERIDEN (M.H.A.) 29-01
47 PARK ST.
PARK APARTMENTS
53 PARK ST.
69 PARK ST.
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 85 PARK ST.
CEDAR STREET
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 29 CEDAR ST. 106-28-8
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 57 PARK ST. 106-28-5
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 77 PARK ST. 106-28-1
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 89 PARK ST.
CONSTRUCT OUTFALL TREATMENT
FILL EXISTING CHANNEL (TYP.)
REMOVE AND DISPOSE OF MERIDEN ENTERPRISE BRIDGE #1 RELOCATE UTILITIES (STA 144+76)
REMOVE ±380 LF RETAINING WALL
REMOVE ±54 LF RETAINING WALL AND GRADE BANKS AT 3:1 SLOPE (STA 143+57 TO 148+50)
HOLD EXISTING BED ELEVATION
N/F SAI MANAGEMENT GROUP LLC 277 CENTER ST 302-258-26
MATCHLINE SHEET PR-13
132+00
133+00
134+00
135+00
136+00
137+00
138+00
139+00
140+00
141+00
142+00
143+00
144+00
HARBOR BROOK
RELOCATE EX. 8" WATER MAIN—ATT. TO SPAN UPSTREAM WINGWALLS
NEW STORM DRAINAGE MH AND OUTLET PROVIDE OUTLET PROTECTION AS NECESSARY
MAINTAIN EXISTING BED ELEVATION
N/F CITY OF MERIDEN (M.H.A.) 29-01
MILL STREET (TO BE REMOVED)
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 160 PRATT ST. 106-28-9
REMOVE ±53 LF RETAINING WALL
RECONSTRUCT CEDAR ST. AND SIDEWALKS. REMOVE AND DISPOSE OF CEDAR ST. BRIDGE AND REPLACE WITH 50' SPAN BRIDGE (STA 135+93) PROVIDE WATERWAY OPENING OF 440 SQ.FT. PROVIDE SCOUR COUNTERMEASURES AS NECESSARY.
N/F C.R. PARKSIDE LIMITED PARTNERSHIP 180 PRATT ST 106-28-9 106-28-10
SEE TYP. CROSS SECTIONS
EXCAVATE NEW RECTANGULAR CHANNEL ALIGNED WITH NEW CEDAR STREET, PARK APARTMENTS, FACTORY, AND CENTER STREET BRIDGES CONTAINED INSIDE FLOODWALLS SET 50 FEET APART TOP WALL ELEVATION AT CENTER STREET 136.0 FEET TOP WALL ELEVATION AT CEDAR STREET 132.0 FEET (STA 136+19 TO 143+09)
CONSTRUCT OUTFALL TREATMENT
REMOVE AND REPLACE EXISTING PARK APARTMENTS BRIDGE WITH 50' SPAN, 12' WIDTH PEDESTRIAN BRIDGE (STA 138+95) PROVIDE WATERWAY OPENING OF 410 SQ.FT.
EXCAVATE NEW RESTORED CHANNEL FROM CEDAR STREET TO CENTER STREET. CONSTRUCT 10' HT. CONCRETE RETAINING WALLS WITH FENCE. CHANNEL BANKFULL WIDTH=30', LOW FLOW CHANNEL WIDTH=6'
N/F TWO HUNDRED PRATT ST. LLC 200 PRATT ST. 106-28-11
REMOVE ±410 LF RETAINING WALL
*NOTE THAT THE REALIGNMENT OF THE CHANNEL IN THIS REACH RESULTS IN A SIGNIFICANT LOSS OF PARKING AREA FOR THE FACILITY AT 200 PRATT ST. IMPACTS TO PARKING WILL BE RESOLVED DURING FINAL DESIGN.
REALIGN HARBOR BROOK CHANNEL (TYP.)
INSTALL RIPRAP ALONG SLOPES 50 FT UPSTREAM AND DOWNSTREAM OF BRIDGE UP TO LIMITS OF 100 YEAR FLOOD—DIMENSIONS TO BE DETERMINED BY DETAILED SCOUR ANALYSIS DURING FINAL DESIGN
REMOVE AND REPLACE CENTER STREET BRIDGE WITH 50' SPAN (STA 143+37) PROVIDE WATERWAY OPENING OF 340 SQ.FT.
PROPOSED TRAIL ROUTE TO FOLLOW EXISTING CEDAR & PRATT STREET SIDEWALKS. IMPROVEMENTS TO EXISTING SURFACE & WIDTH MAY BE NECESSARY
CENTER STREET
N/F STATE OF CT 261 CENTER ST. 302-258-29
N/F AMIN HUSSIEN 255 CENTER ST. 302-258-30
N/F 232 PRATT ST. LLC 232 PRATT ST. 302-258-31
CONSTRUCT 10' WIDE PAVED LINEAR TRAIL
TURF ESTABLISHMENT (TYP.)
N/F 234 PRATT ST. LLC 234 PRATT ST. 258+31A
N/F IGLESIA DE CRISTO MISSION OF MERIDEN 242 PRATT ST. 258-32 & 258-33
REMOVE ±80 LF RETAINING WALL AND GRADE BANKS AT 3:1 SLOPE (STA 143+57 TO 148+50)
PRATT STREET
NEW SIDEWALK
MILL STREET TO BE ABANDONED REGRADED AND SEEDED
NEW CURB LINE CLOSING ABANDONED MILL STREET
MATCHLINE SHEET PR-11
N/F CARABETTA ENTERPRISES INC. 135 PRATT ST. 31-2
N/F MARIA CANINO 145 PRATT ST. 31-1
31-24
N/F THE CURTIS CORPORATION 153 PRATT ST. 257-9 257-9A 257-9B
N/F THE CURTIS CORPORATION 163 PRATT ST. 257-8
257-8
N/F THE CURTIS CORPORATION 171 PRATT ST. 257-6
N/F CITY OF MERIDEN 177 PRATT ST. 257-5
N/F CITY OF MERIDEN 191-195 PRATT ST. 257-4
N/F DANIEL & ELENA ROBERTS 197 PRATT ST. 257-3
N/F RAMESH M. & NISHA V. VYAS 207-209 PRATT ST. 257-2
N/F RAMESH M. & NISHA V. VYAS 211-215 PRATT ST. 257-1
N/F THE MILLER CO. MILLER ST. 85-1A 85-1B

N
0 20' 40'

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REVISIONS
1 03/02/2012
2 04/18/2012

PROPOSED CONDITIONS AND S&E CONTROLS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'

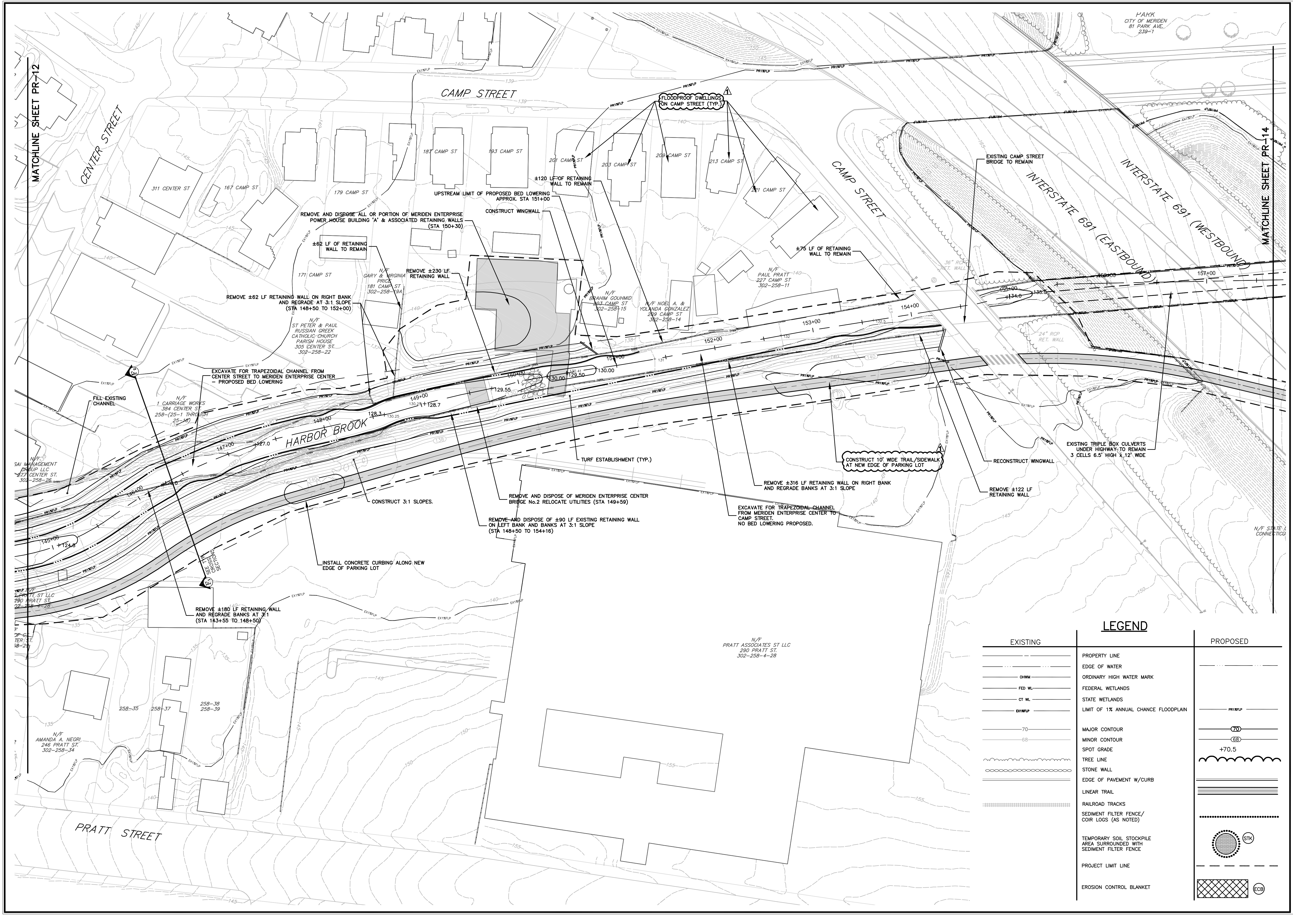
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 49 OF 65

PR-12
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-10TO18.DWG Layout Tab:PR-13
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:18am


MATCHLINE SHEET PR-12
MATCHLINE SHEET PR-14
CENTER STREET
CAMP STREET
PRATT STREET
HARBOR BROOK
INTERSTATE 691 (EASTBOUND)
INTERSTATE 691 (WESTBOUND)
PARK
CITY OF MERIDEN
81 PARK AVE.
239-1
311 CENTER ST
167 CAMP ST
171 CAMP ST
179 CAMP ST
187 CAMP ST
193 CAMP ST
201 CAMP ST
203 CAMP ST
209 CAMP ST
213 CAMP ST
221 CAMP ST
FLOODPROOF DWELLINGS ON CAMP STREET (TYP.)
1
UPSTREAM LIMIT OF PROPOSED BED LOWERING APPROX. STA 151+00
REMOVE AND DISPOSE ALL OR PORTION OF MERIDEN ENTERPRISE POWER HOUSE BUILDING 'A' & ASSOCIATED RETAINING WALLS (STA 150+30)
±120 LF OF RETAINING WALL TO REMAIN
CONSTRUCT WINGWALL
±62 LF OF RETAINING WALL TO REMAIN
REMOVE ±230 LF RETAINING WALL
REMOVE ±62 LF RETAINING WALL ON RIGHT BANK AND REGRADE AT 3:1 SLOPE (STA 148+50 TO 152+00)
±75 LF OF RETAINING WALL TO REMAIN
EXISTING CAMP STREET BRIDGE TO REMAIN
N/F GARY & VIRGINIA PRICE 181 CAMP ST 302-258-19A
N/F ST PETER & PAUL RUSSIAN GREEK CATHOLIC CHURCH PARISH HOUSE 305 CENTER ST. 302-258-22
N/F BRAHIM GOUHMID 203 CAMP ST 302-258-15
N/F NOEL A. & YOLANDA GONZALEZ 209 CAMP ST 302-258-14
N/F PAUL PRATT 227 CAMP ST 302-258-11
N/F 1 CARRIAGE WORKS 384 CENTER ST. 258-(25-1 THROUGH 25-16)
N/F SAI MANAGEMENT GROUP LLC 277 CENTER ST. 302-258-26
N/F PRATT ST LLC 290 PRATT ST. 302-258-4-28
N/F AMANDA A. NEGRI 246 PRATT ST. 302-258-34
258-35
258-37
258-38
258-39
N/F PRATT ASSOCIATES ST LLC 290 PRATT ST. 302-258-4-28
N/F STATE OF CONNECTICUT
EXCAVATE FOR TRAPEZOIDAL CHANNEL FROM CENTER STREET TO MERIDEN ENTERPRISE CENTER - PROPOSED BED LOWERING
FILL EXISTING CHANNEL
CONSTRUCT 3:1 SLOPES.
TURF ESTABLISHMENT (TYP.)
REMOVE AND DISPOSE OF MERIDEN ENTERPRISE CENTER BRIDGE No.2 RELOCATE UTILITIES (STA 149+59)
REMOVE AND DISPOSE OF ±90 LF EXISTING RETAINING WALL ON LEFT BANK AND BANKS AT 3:1 SLOPE (STA 148+50 TO 154+16)
INSTALL CONCRETE CURBING ALONG NEW EDGE OF PARKING LOT
REMOVE ±180 LF RETAINING WALL AND REGRADE BANKS AT 3:1 (STA 143+55 TO 148+50)
SEE TYP. CROSS SECTIONS
CONSTRUCT 10' WIDE TRAIL/SIDEWALK AT NEW EDGE OF PARKING LOT
REMOVE ±316 LF RETAINING WALL ON RIGHT BANK AND REGRADE BANKS AT 3:1 SLOPE
EXCAVATE FOR TRAPEZOIDAL CHANNEL FROM MERIDEN ENTERPRISE CENTER TO CAMP STREET. NO BED LOWERING PROPOSED.
RECONSTRUCT WINGWALL
REMOVE ±122 LF RETAINING WALL
EXISTING TRIPLE BOX CULVERTS UNDER HIGHWAY TO REMAIN 3 CELLS 6.5' HIGH x 12' WIDE
36" RCP RET. WALL
24" RCP RET. WALL
145+00
146+00
147+00
148+00
149+00
150+00
151+00
152+00
153+00
154+00
155+00
156+00
157+00
+124.8
+126.0
+127.0
128.3
128.7
129.55
129.50
130.00
134.0
135.0
EX1%FLP
PR1%FLP
OHWM
0
20'
40'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	
	EROSION CONTROL BLANKET	ECB

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2	04/18/2012

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HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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DESIGNED	DRAWN	CHECKED

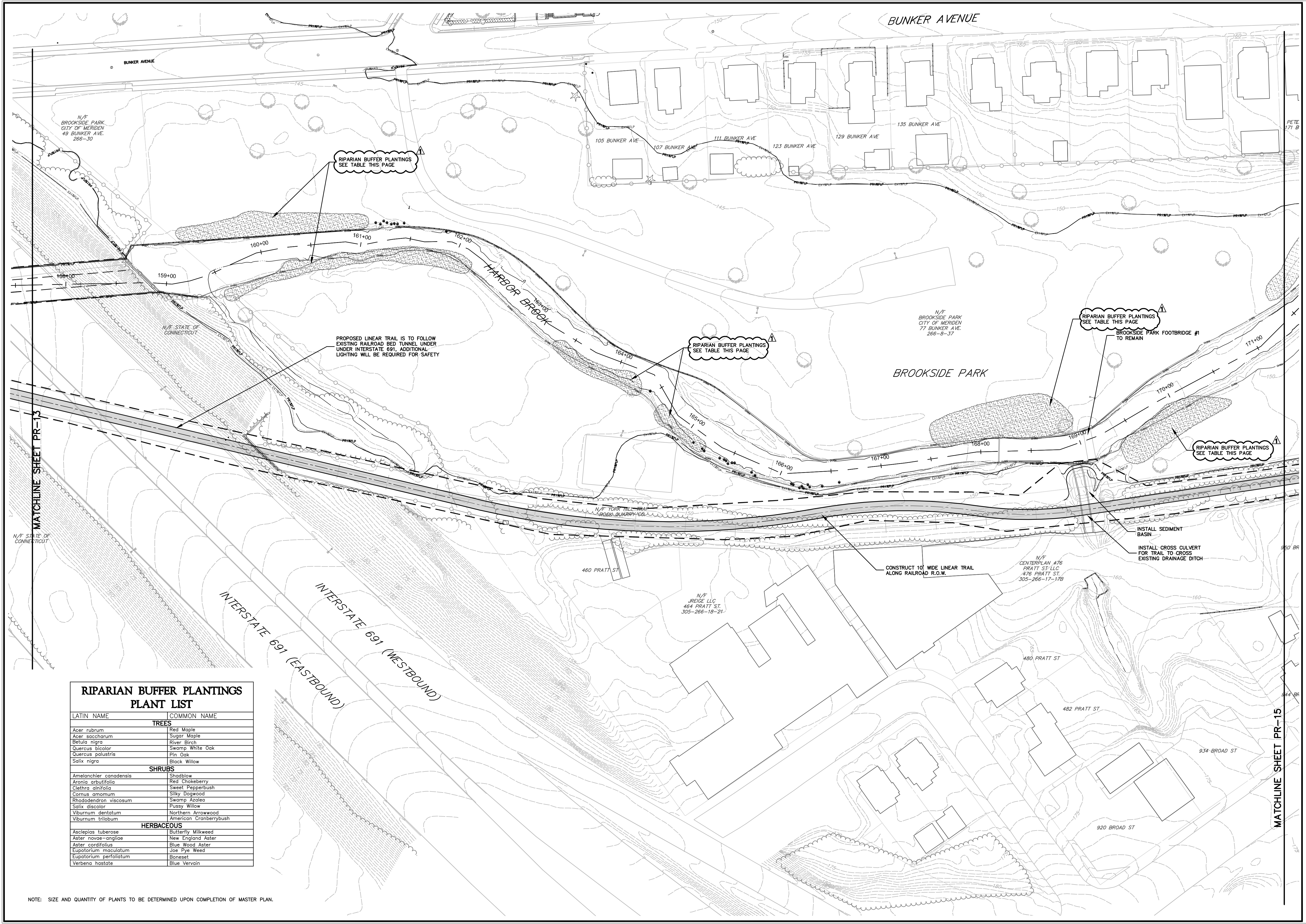
SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 50 OF 65

PR-13
SHEET NO.


BUNKER AVENUE
BUNKER AVENUE
N/F
BROOKSIDE PARK
CITY OF MERIDEN
49 BUNKER AVE.
266-30
105 BUNKER AVE
107 BUNKER AVE
111 BUNKER AVE
123 BUNKER AVE
129 BUNKER AVE
135 BUNKER AVE
PETE
171 B
RIPARIAN BUFFER PLANTINGS
SEE TABLE THIS PAGE
1
158+00
159+00
160+00
161+00
162+00
163+00
164+00
165+00
166+00
167+00
168+00
169+00
170+00
171+00
HARBOR BROOK
N/F STATE OF CONNECTICUT
PROPOSED LINEAR TRAIL IS TO FOLLOW EXISTING RAILROAD BED TUNNEL UNDER UNDER INTERSTATE 691. ADDITIONAL LIGHTING WILL BE REQUIRED FOR SAFETY
RIPARIAN BUFFER PLANTINGS
SEE TABLE THIS PAGE
1
N/F
BROOKSIDE PARK
CITY OF MERIDEN
77 BUNKER AVE.
266-8-37
BROOKSIDE PARK
RIPARIAN BUFFER PLANTINGS
SEE TABLE THIS PAGE
1
BROOKSIDE PARK FOOTBRIDGE #1
TO REMAIN
RIPARIAN BUFFER PLANTINGS
SEE TABLE THIS PAGE
1
MATCHLINE SHEET PR-13
N/F STATE OF CONNECTICUT
N/F YORK HILL TRAP ROCK QUARRY CO.
INSTALL SEDIMENT BASIN
INSTALL CROSS CULVERT FOR TRAIL TO CROSS EXISTING DRAINAGE DITCH
CONSTRUCT 10' WIDE LINEAR TRAIL ALONG RAILROAD R.O.W.
460 PRATT ST
N/F
JREIGE LLC
464 PRATT ST.
305-266-18-21
N/F
CENTERPLAN 476
PRATT ST LLC
476 PRATT ST.
305-266-17-17B
950 BR
944 BR
480 PRATT ST
482 PRATT ST
934 BROAD ST
920 BROAD ST
INTERSTATE 691 (EASTBOUND)
INTERSTATE 691 (WESTBOUND)
MATCHLINE SHEET PR-15
145
150
155
160
165
170
175
180
185
190

RIPARIAN BUFFER PLANTINGS PLANT LIST

LATIN NAME	COMMON NAME
TREES	
Acer rubrum	Red Maple
Acer saccharum	Sugar Maple
Betula nigra	River Birch
Quercus bicolor	Swamp White Oak
Quercus palustris	Pin Oak
Salix nigra	Black Willow
SHRUBS	
Amelanchier canadensis	Shadblow
Aronia arbutifolia	Red Chokeberry
Clethra alnifolia	Sweet Pepperbush
Cornus amomum	Silky Dogwood
Rhododendron viscosum	Swamp Azalea
Salix discolor	Pussy Willow
Viburnum dentatum	Northern Arrowwood
Viburnum trilobum	American Cranberrybush
HERBACEOUS	
Asclepias tuberose	Butterfly Milkweed
Aster novae-angliae	New England Aster
Aster cordifolius	Blue Wood Aster
Eupotorium maculatum	Joe Pye Weed
Eupatorium perfoliatum	Boneset
Verbena hastate	Blue Vervain

NOTE: SIZE AND QUANTITY OF PLANTS TO BE DETERMINED UPON COMPLETION OF MASTER PLAN.

0 20' 40'

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SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 51 OF 65

PR-14
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-10TO18.DWG Layout Tab:PR-15
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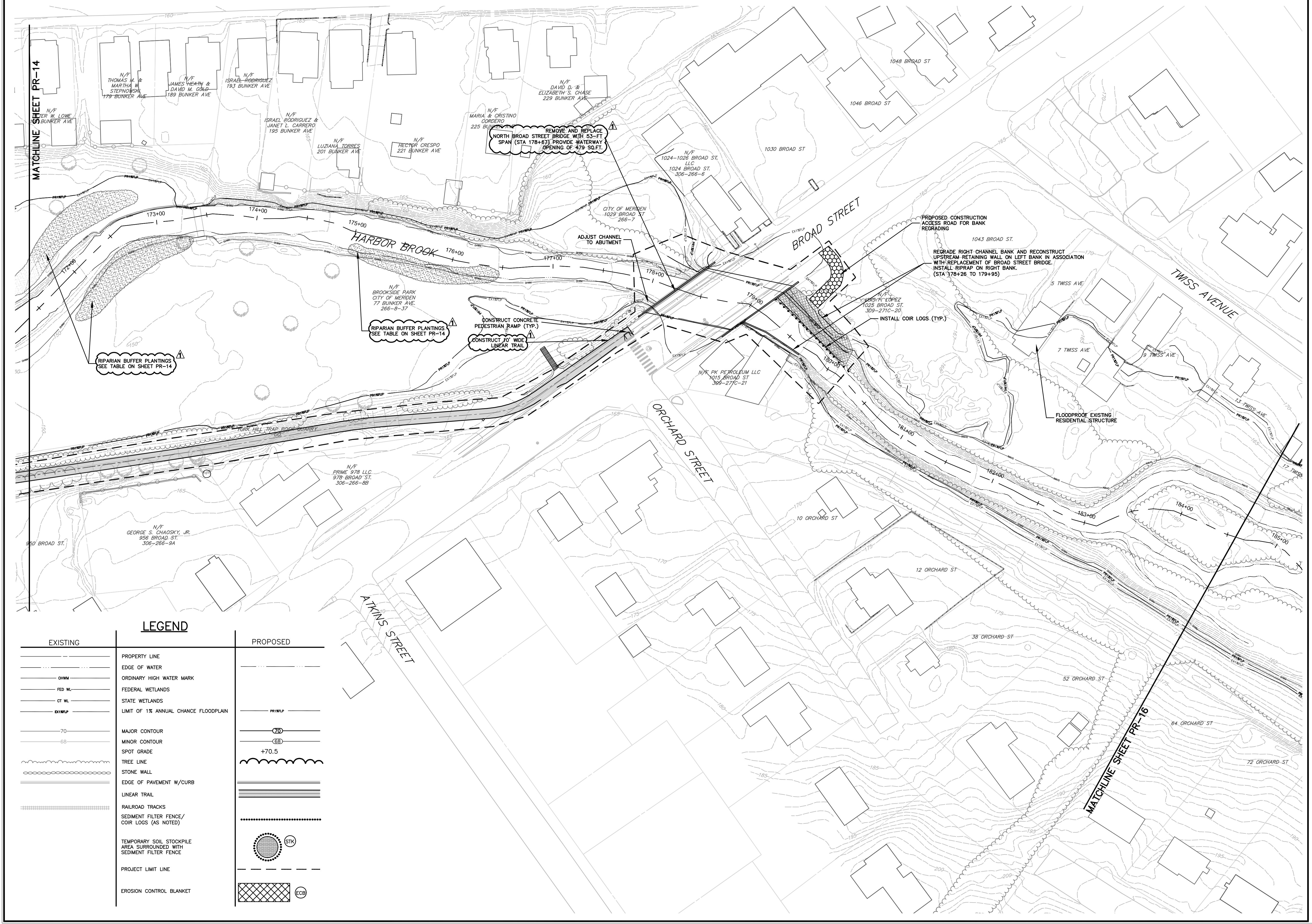
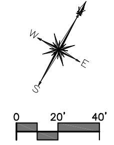


MATCHLINE SHEET PR-14
N/F THOMAS M. & MARTHA W. STEPNOWSKI 179 BUNKER AVE
N/F JAMES HEATH & DAVID M. GOLD 189 BUNKER AVE
N/F ISRAEL RODRIGUEZ 193 BUNKER AVE
N/F DAVID D. & ELIZABETH S. CHASE 229 BUNKER AVE
N/F PETER W. LOWE 1.. BUNKER AVE
N/F ISRAEL RODRIGUEZ & JANET L. CARRERO 195 BUNKER AVE
N/F MARIA & CRISTINO CORDERO 225 BUNKER AVE
N/F LUZIANA TORRES 201 BUNKER AVE
N/F HECTOR CRESPO 221 BUNKER AVE
REMOVE AND REPLACE NORTH BROAD STREET BRIDGE WITH 53-FT SPAN (STA 178+67) PROVIDE WATERWAY OPENING OF 479 SQ.FT.
1
1048 BROAD ST
1046 BROAD ST
1030 BROAD ST
N/F 1024-1026 BROAD ST. LLC 1024 BROAD ST. 306-266-6
CITY OF MERIDEN 1029 BROAD ST 266-7
HARBOR BROOK
172+00
173+00
174+00
175+00
176+00
177+00
178+00
179+00
180+00
181+00
182+00
183+00
184+00
185+00
ADJUST CHANNEL TO ABUTMENT
BROAD STREET
PROPOSED CONSTRUCTION ACCESS ROAD FOR BANK REGRADING
1043 BROAD ST.
REGRADE RIGHT CHANNEL BANK AND RECONSTRUCT UPSTREAM RETAINING WALL ON LEFT BANK IN ASSOCIATION WITH REPLACEMENT OF BROAD STREET BRIDGE. INSTALL RIPRAP ON RIGHT BANK. (STA 178+26 TO 179+95)
TWISS AVENUE
5 TWISS AVE
7 TWISS AVE
9 TWISS AVE
13 TWISS AVE
17 TWISS
N/F LUIS F. LOPEZ 1025 BROAD ST. 309-271C-20
INSTALL COIR LOGS (TYP.)
N/F BROOKSIDE PARK CITY OF MERIDEN 77 BUNKER AVE. 266-8-37
RIPARIAN BUFFER PLANTINGS SEE TABLE ON SHEET PR-14
1
CONSTRUCT CONCRETE PEDESTRIAN RAMP (TYP.)
CONSTRUCT 10' WIDE LINEAR TRAIL
1
RIPARIAN BUFFER PLANTINGS SEE TABLE ON SHEET PR-14
1
N/F PK PETROLEUM LLC 1015 BROAD ST 309-271C-21
FLOODPROOF EXISTING RESIDENTIAL STRUCTURE
ORCHARD STREET
TURK HILL TRAP ROCK QUARRY
N/F PRIME 978 LLC 978 BROAD ST. 306-266-8B
N/F GEORGE S. CHAOSKY, JR. 956 BROAD ST. 306-266-9A
950 BROAD ST.
10 ORCHARD ST
12 ORCHARD ST
38 ORCHARD ST
52 ORCHARD ST
64 ORCHARD ST
72 ORCHARD ST
ATKINS STREET
MATCHLINE SHEET PR-16
OHWM
EX1%FLP
PR1%FLP
150
155
160
165
170
175
180
185
190
195
200

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
OHWM	ORDINARY HIGH WATER MARK	
FED WL	FEDERAL WETLANDS	
CT WL	STATE WETLANDS	
EX1%FLP	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	PR1%FLP
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	
	EROSION CONTROL BLANKET	▨ ECB



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SCALE 1"=40'

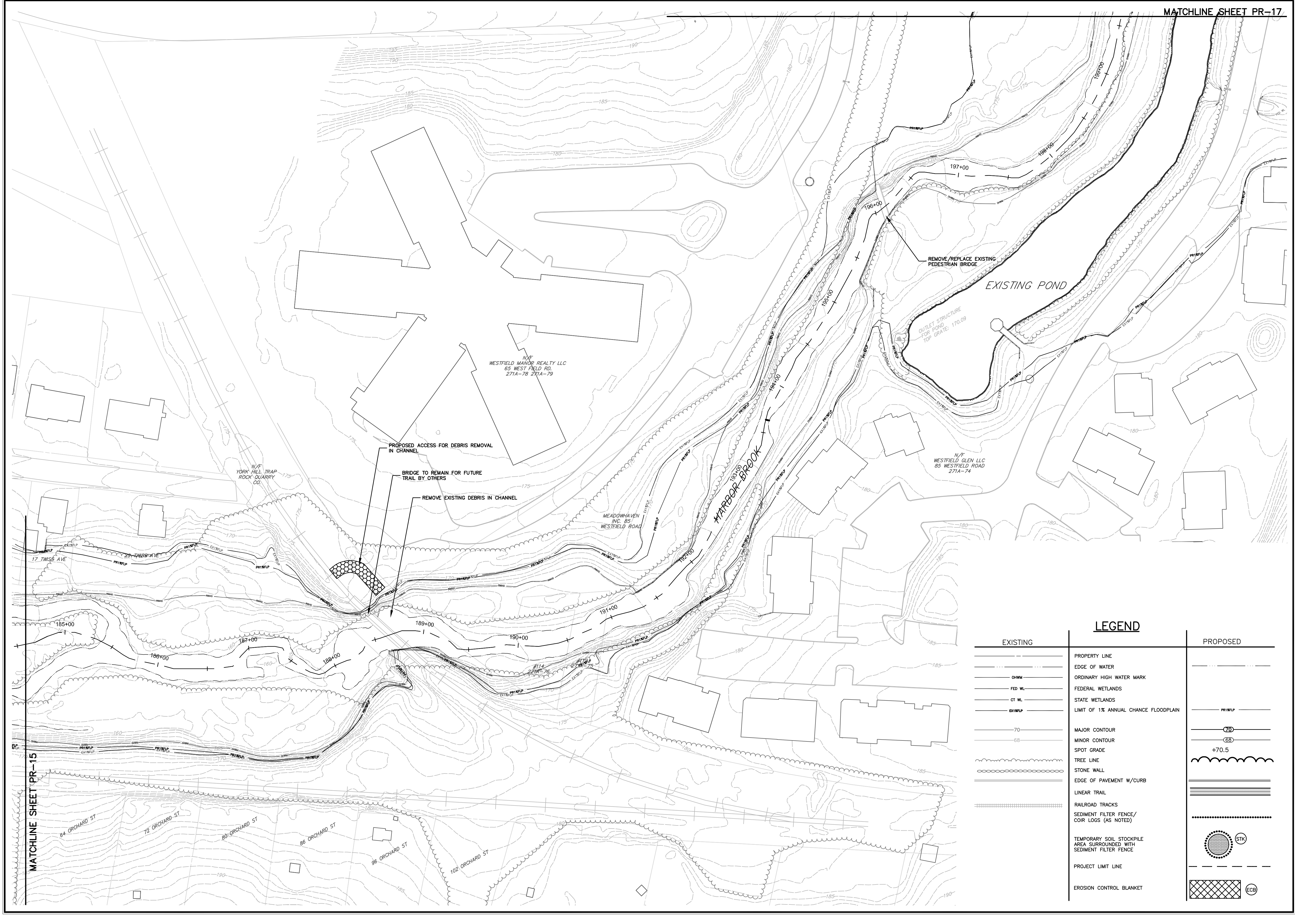
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 52 OF 65

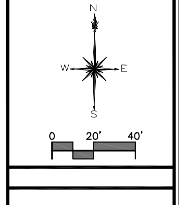
PR-15
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-LAYOUT-10TO18.DWG Layout Tab:PR-16
Plotted by: BECKYM On this date: Fri, 2012 April 20 - 9:18am


MATCHLINE SHEET PR-17
MATCHLINE SHEET PR-15
N/F
WESTFIELD MANOR REALTY LLC
65 WEST FIELD RD.
271A-78 271A-79
N/F
YORK HILL TRAP
ROCK QUARRY
CO.
PROPOSED ACCESS FOR DEBRIS REMOVAL IN CHANNEL
BRIDGE TO REMAIN FOR FUTURE TRAIL BY OTHERS
REMOVE EXISTING DEBRIS IN CHANNEL
REMOVE/REPLACE EXISTING PEDESTRIAN BRIDGE
EXISTING POND
OUTLET STRUCTURE
FOR POND
TOP GRATE: 170.09
N/F
WESTFIELD GLEN LLC
85 WESTFIELD ROAD
271A-74
MEADOWHAVEN
INC. 85
WESTFIELD ROAD
HARBOR BROOK
#114
271A-76
#112
271A-75
17 TWISS AVE
29 TWISS AVE
64 ORCHARD ST
72 ORCHARD ST
80 ORCHARD ST
86 ORCHARD ST
96 ORCHARD ST
102 ORCHARD ST
185+00
186+00
187+00
188+00
189+00
190+00
191+00
192+00
193+00
194+00
195+00
196+00
197+00
198+00
199+00
PR1%FLP
EX1%FLP
OHWM
FED WL
160
165
170
175
180
185
190
195

LEGEND

EXISTING		PROPOSED
——— — ———	PROPERTY LINE	
——— ··· ———	EDGE OF WATER	——— ··· ———
——— OHWM ———	ORDINARY HIGH WATER MARK	
——— FED WL ———	FEDERAL WETLANDS	
——— CT WL ———	STATE WETLANDS	
——— EX1%FLP ———	LIMIT OF 1% ANNUAL CHANCE FLOODPLAIN	——— PR1%FLP ———
——— 70 ———	MAJOR CONTOUR	——— 70 ———
——— 68 ———	MINOR CONTOUR	——— 68 ———
	SPOT GRADE	+70.5
	TREE LINE	
	STONE WALL	
	EDGE OF PAVEMENT W/CURB	
	LINEAR TRAIL	
	RAILROAD TRACKS	
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	••••••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK
	PROJECT LIMIT LINE	— — — —
	EROSION CONTROL BLANKET	▨ ECB



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NEB	BAM	JGM

SCALE 1"=40'

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 53 OF 65

PR-16
SHEET NO.

FLOOD SHELF PLANT LIST 3

SHADE TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
	5	Acer rubrum	Red Maple	3.5"–4" CAL.	B&B, FULL & DENSE
	5	Acer saccharinum	Silver Maple	3.5"–4" CAL.	B&B, FULL & DENSE
	5	Betula nigra	River Birch	3.5"–4" CAL.	B&B, FULL & DENSE
	5	Quercus bicolor	Swamp White Oak	3.5"–4" CAL.	B&B, FULL & DENSE
	5	Quercus palustris	Pin Oak	3.5"–4" CAL.	B&B, FULL & DENSE
TREE SAPLINGS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
	25	Acer rubrum	Red Maple	5'–6' HT.	CONTAINER
	25	Acer saccharinum	Silver Maple	5'–6' HT.	CONTAINER
	25	Betula nigra	River Birch	5'–6' HT.	CONTAINER
	25	Populus deltoides	Eastern Cottonwood	5'–6' HT.	CONTAINER
	25	Quercus bicolor	Swamp White Oak	5'–6' HT.	CONTAINER
	25	Quercus palustris	Pin Oak	5'–6' HT.	CONTAINER
	25	Salix nigra	Black Willow	5'–6' HT.	CONTAINER
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
	125	Alnus incana	Speckled Alder	30"–36"	FULL & DENSE
	50	Cephalanthus occidentalis	Buttonbush	30"–36"	FULL & DENSE
	100	Cornus amomum	Silky Dogwood	30"–36"	FULL & DENSE
	50	Cornus racemosa	Gray Dogwood	30"–36"	FULL & DENSE
	50	Ilex verticillata	Winterberry	30"–36"	FULL & DENSE
	50	Rosa palustris	Swamp Rose	30"–36"	FULL & DENSE
	125	Salix discolor	Pussy Willow	30"–36"	FULL & DENSE
	125	Spirea tomentosum	Steeplebush	30"–36"	FULL & DENSE
	50	Vaccinium corymbosum	Highbush Blueberry	30"–36"	FULL & DENSE
	125	Viburnum dentatum	Arrowwood Viburnum	30"–36"	FULL & DENSE
HERBACEOUS PLUGS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE/ CONDITION**	
	500	Alisma plantago–aquatica	Water Plantain	PLUG	
	500	Carex lurida	Lurid Sedge	PLUG	
	500	Carex stricta	Tussock Sedge	PLUG	
	500	Iris versicolor	Blue Flag Iris	PLUG	
	500	Juncus effusus	Soft Rush	PLUG	
	25	Nymphaea odorata	White Water Lily	PLUG	
	500	Pontederia cordata	Pickerlweed	PLUG	
	500	Sagittaria latifolia	Duck Potato	PLUG	
	500	Scripus atrovirens	Green bulrush	PLUG	
	500	Scirpus cyperinus	Woolgrass	PLUG	

NOTE: QUANTITIES TO BE DETERMINED DURING FINAL DESIGN

FLOOD SHELF EMBANKMENT SEED MIX

NEW ENGLAND CONSERVATION/WILDLIFE MIX
SEED MIX Species: Big Bluestem (Andropogon gerardii), Switchgrass (Panicum virgatum), Little Bluestem (Schizachyrium scoparium), Canada Wild Rye (Elymus canadensis), Fox Sedge (Carex vulpinoidea), Partridge Pea (Chamaecrista fasciculata), Fringed Bromegrass (Bromus ciliatus), Pennsylvania Smartweed (Polygonum pensylvanicum), Common Milkweed (Asclepias syriaca), Showy Tick–Trefoil (Desmodium canadense), New England Aster (Aster novae–angliae), Flat–top Aster (Aster umbellatus), Nodding Bur–Marigold (Bidens cernua).

RECOMMENDED APPLICATION RATE:
(1743 SQUARE FEET/ LB)

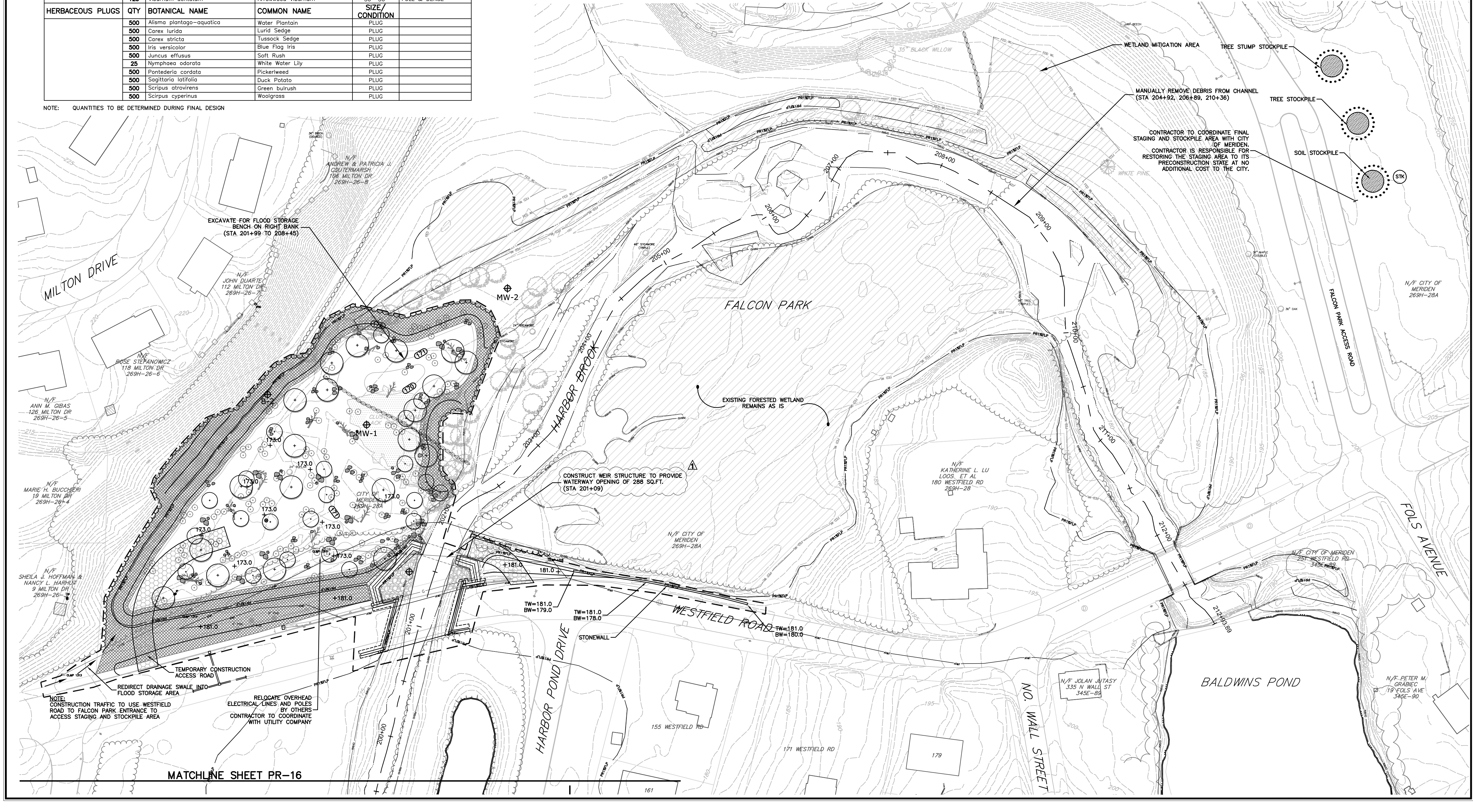
FLOOD SHELF SEED MIX

NEW ENGLAND WETMIX (WETLAND SEED MIX)
SEED MIX Species: Fox Sedge (Carex vulpinoidea), Bearded Sedge (Carex comosa), Lurid Sedge (Carex lurida), Soft Rush (Juncus effusus), Grass–leaved Goldenrod (Euthamia graminifolia), Boneset (Eupatorium perfoliatum), Hop Sedge (Carex lupulina), Blue Vervain (Verbena hastata), Nodding SedgZ E e (Carex gynandra), Green Bulrush (Scirpus atrovirens), Sensitive Fern (Onoclea sensibilis), Blue Flag Iris (Iris versicolor), Woolgrass (Scirpus cyperinus), Spotted Joe Pye weed (Eupatorium maculatum), Swamp Milkweed (Asclepias incarnata), Monkey Flower (Mimulus ringens), Soft–Stem Bulrush (Shoenoplectus tabernaemontani) (ex– S. validus), Hardstem Bulrush (Schoenoplectus acutus) (ex–Scirpus acutus), Nodding Bur Marigold (Bidens cernua), Flat–top Aster (Aster umbellatus).

RECOMMENDED APPLICATION RATE:
(2500 SQUARE FEET/ LB)

PLANTING NOTES

1. EROSION CONTROLS SHALL BE INSTALLED, REPAIRED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD OF THE WETLAND MITIGATION OR UNTIL THE SITE IS FULLY STABILIZED BY VEGETATION (SEED MIX). EROSION CONTROLS SHALL THEN BE REMOVED FROM THE SITE.
2. A WETLAND SCIENTIST SHALL BE ON SITE TO MONITOR PLANTING AND GRADING OF THE WETLAND RESTORATION AREA TO ENSURE COMPLIANCE WITH THE APPROVED PLANS.
3. GRADING LINES DEPICTED ON THE PLAN ARE DRAWN SMOOTHLY, ACTUAL SURFACE GRADES ACROSS WETLAND 'FLOOR' SHALL REFLECT HUMMOCK AND HOLLOW TOPOGRAPHY OF NATURAL WETLANDS.
4. 12 INCHES OF SUPER ENRICHED TOPSOIL (MUST CONTAIN MINIMUM 12% ORGANIC CARBON BY WEIGHT) SHALL BE INSTALLED OVER THE ROUGH SUB GRADE.
5. THE SURFACE AND GROUNDWATER LEVELS SHALL BE MONITORED PRIOR TO PERMANENT PLANTING. AS A RESULT OF ACTUAL WATER LEVELS, THE CORRESPONDING PLANTINGS MAY NEED TO BE ADJUSTED IN THE FIELD.
6. ALL WETLAND PLANTINGS ARE TO BE PLANTED ONLY AFTER STABILIZATION OF CONTRIBUTING DRAINAGE AREAS.
7. WETLAND PLANTINGS SHALL BE LIMITED TO THE PERIODS OF APRIL 15 – JULY 15, OR AUTUMN. ONLY QUALITY NATIVE PLANTS FROM A NURSERY SHALL BE USED.
8. ALL WOODY PLANT MATERIAL SHALL BE PROVIDED IN CONTAINERS THAT ARE APPROPRIATELY SIZED FOR THE SPECIFIED PLANT. HERBACEOUS PLANT MATERIAL SHALL BE PLUGS AND CONTAINERIZED. WETLAND PLANTS SHALL HAVE BEEN GROWN IN A LOCAL/REGIONAL NURSERY.
9. SUPPLEMENTAL HERBACEOUS PLANTINGS SHALL BE CONCENTRATED IN GROUPINGS, TO BE DETERMINED. HERBACEOUS PLANTINGS TO BE PLUGS TWO FOOT ON CENTER. SHRUB PLANTINGS TO BE 36" O.C. (DEPENDENT UPON SPECIES).
10. ALL TUBERS AND ROOT STOCK SHALL BE PUSHED ONE TO TWO INCHES DEEP INTO THE ORGANIC SOIL & SPACED AS SPECIFIED. PLANTS WITH GROWING STEMS SHALL BE PLANTED SUCH THAT THE GROWING STEM EXTENDS ABOVE THE SOIL SURFACE. WEIGHTING OF TUBERS & ROOT STOCK WITH FENCE STAPLES AND/OR EIGHT PENNY NAILS MAY BE REQUIRED IF DISLODGING & FLOATING IS A PROBLEM.
11. THE SOILS IN THE WETLAND RESTORATION AREAS SHALL BE SEEDED WITH DESIGNATED WETLAND AND UPLAND SEED MIXES AS NOTED IN PLANT LIST. ALL PLUGS & SEED. MIXES SPECIFIED BY NEW ENGLAND WETLAND PLANTS INC. 800 MAIN ST. AMHERST, MA 01002 (413) 256–1752 OR APPROVED EQUIVALENT.
12. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
13. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE WETLAND SCIENTIST. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.


WETLAND MITIGATION AREA
TREE STUMP STOCKPILE
TREE STOCKPILE
SOIL STOCKPILE
STK
MANUALLY REMOVE DEBRIS FROM CHANNEL (STA 204+92, 206+89, 210+36)
CONTRACTOR TO COORDINATE FINAL STAGING AND STOCKPILE AREA WITH CITY OF MERIDEN. CONTRACTOR IS RESPONSIBLE FOR RESTORING THE STAGING AREA TO ITS PRECONSTRUCTION STATE AT NO ADDITIONAL COST TO THE CITY.
35" BLACK WILLOW
30" BEECH
WHITE PINE
36" OAK
FALCON PARK ACCESS ROAD
N/F CITY OF MERIDEN 269H–28A
FALCON PARK
EXISTING FORESTED WETLAND REMAINS AS IS
N/F KATHERINE L. LU LOOS, ET AL 180 WESTFIELD RD 269H–28
FOLS AVENUE
N/F CITY OF MERIDEN 251 WESTFIELD RD 345E–89
BALDWINS POND
N/F PETER M. GRABIEC 19 FOLS AVE 345E–90
N/F JOLAN JUTASY 335 N WALL ST 345E–89
NO. WALL STREET
171 WESTFIELD RD
179
155 WESTFIELD RD
161
N/F ANDREW & PATRICIA J. COUTERMARSH 106 MILTON DR 269H–26–8
MILTON DRIVE
N/F JOHN DUARTE 112 MILTON DR 269H–26–7
N/F ROSE STEFANOWICZ 118 MILTON DR 269H–26–6
N/F ANN M. GIBAS 126 MILTON DR 269H–26–5
N/F MARIE H. BUCCHIERI 19 MILTON DR 269H–26–4
N/F SHEILA J. HOFFMAN & NANCY L. HARHUT 9 MILTON DR 269H–26–3
EXCAVATE FOR FLOOD STORAGE BENCH ON RIGHT BANK (STA 201+99 TO 208+45)
MW-2
MW-1
B-2
HARBOR BROOK
CITY OF MERIDEN 269H–28A
173.0
+181.0
181.0
CONSTRUCT WEIR STRUCTURE TO PROVIDE WATERWAY OPENING OF 288 SQ.FT. (STA 201+09)
TW=181.0 BW=179.0
TW=181.0 BW=178.0
TW=181.0 BW=180.0
WESTFIELD ROAD
STONEWALL
HARBOR POND DRIVE
TEMPORARY CONSTRUCTION ACCESS ROAD
REDIRECT DRAINAGE SWALE INTO FLOOD STORAGE AREA
NOTE: CONSTRUCTION TRAFFIC TO USE WESTFIELD ROAD TO FALCON PARK ENTRANCE TO ACCESS STAGING AND STOCKPILE AREA
RELOCATE OVERHEAD ELECTRICAL LINES AND POLES BY OTHERS CONTRACTOR TO COORDINATE WITH UTILITY COMPANY
MATCHLINE SHEET PR–16
200+00
201+00
202+00
203+00
204+00
205+00
206+00
207+00
208+00
209+00
210+00
211+00
212+00
212+93.89

N S E W
0 20' 40'

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REVISIONS
1 03/02/2012
2 04/18/2012
3 05/09/2012

PROPOSED CONDITIONS AND S&E CONTROLS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE 1"=40'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 54 OF 65

PR-17
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-MITIGATION-2.DWG Layout Tab:MI-1
Plotted by: BECKYM On this date: Tue, 2012 April 17 - 2:06pm

UPLAND SEED MIX

▩

NEW ENGLAND CONSERVATION/WILDLIFE MIX

SEED MIX Species: Big Bluestem (Andropogon gerardii), Switchgrass (Panicum virgatum), Little Bluestem (Schizachyrium scoparium), Canada Wild Rye (Elymus canadensis), Fox Sedge (Carex vulpinoidea), Partridge Pea (Chamaecrista fasciculata), Fringed Bromegrass (Bromus ciliatus), Pennsylvania Smartweed (Polygonum pensylvanicum), Common Milkweed (Asclepias syriaca), Showy Tick–Trefoil (Desmodium canadense), New England Aster (Aster novae–angliae), Flat–top Aster (Aster umbellatus), Nodding Bur–Marigold (Bidens cernua).

RECOMMENDED APPLICATION RATE:
(1743 SQUARE FEET/ LB)

WETLAND SEED MIX

NEW ENGLAND WETMIX (WETLAND SEED MIX)

SEED MIX Species: Fox Sedge (Carex vulpinoidea), Bearded Sedge (Carex comosa), Lurid Sedge (Carex lurida), Soft Rush (Juncus effusus), Grass–leaved Goldenrod (Euthamia graminifolia), Boneset (Eupatorium perfoliatum), Hop Sedge (Carex lupulina), Blue Vervain (Verbena hastata), Nodding SedgZ E e (Carex gynandra), Green Bulrush (Scirpus atrovirens), Sensitive Fern (Onoclea sensibilis), Blue Flag Iris (Iris versicolor), Woolgrass (Scirpus cyperinus), Spotted Joe Pye weed (Eupatorium maculatum), Swamp Milkweed (Asclepias incarnata), Monkey Flower (Mimulus ringens), Soft–Stem Bulrush (Shoenoplectus tabernaemontani) (ex– S. validus), Hardstem Bulrush (Schoenoplectus acutus) (ex–Scirpus acutus), Nodding Bur Marigold (Bidens cernua), Flat–top Aster (Aster umbellatus).

COMMON REED MANAGEMENT AND REMOVAL

△2

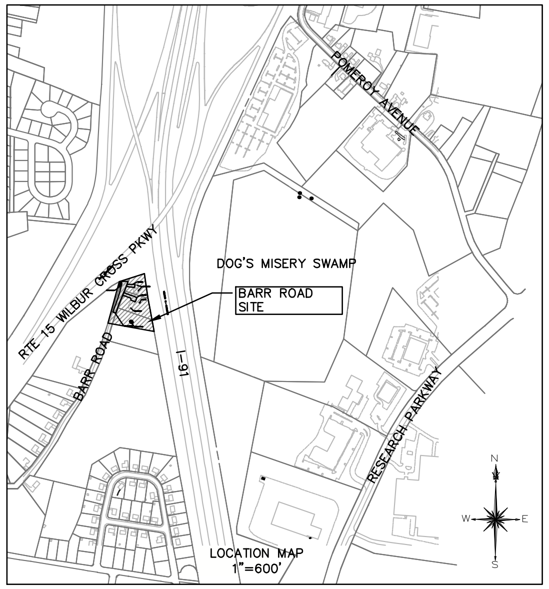
1. THE SMALL PATCHES SHALL BE REMOVED BY EXCAVATION.
2. CONTRACTOR SHALL BE REQUIRED TO EXCAVATE TO A DEPTH OF TWO FEET BELOW THE SOIL SURFACE, OR AS DIRECTED BY THE SUPERVISING WETLAND SCIENTIST, AND APPROXIMATELY THREE FEET BEYOND THE OUTER PLANT STALKS.
3. ALL EXCAVATED MATERIAL FROM THE COMMON REED REMOVAL AREAS SHALL BE STOCKPILED AND TRANSPORTED TO NEARBY LANDFILL. PLEASE NOTE THAT THIS MATERIAL SHALL NOT BE MIXED OR REUSED ON SITE.
4. ALL AREAS SHALL BE BACKFILLED WITH CLEAN SUBSOIL.
5. APPLY APPROXIMATELY 12 INCHES OF SUPER ENRICHED TOPSOIL OVER SUBSOIL TO MATCH EXISTING GRADE.
6. APPLY WETLAND SEED MIX AS DIRECTED BY THE SUPERVISING WETLAND SCIENTIST.

CONSTRUCTION SEQUENCE

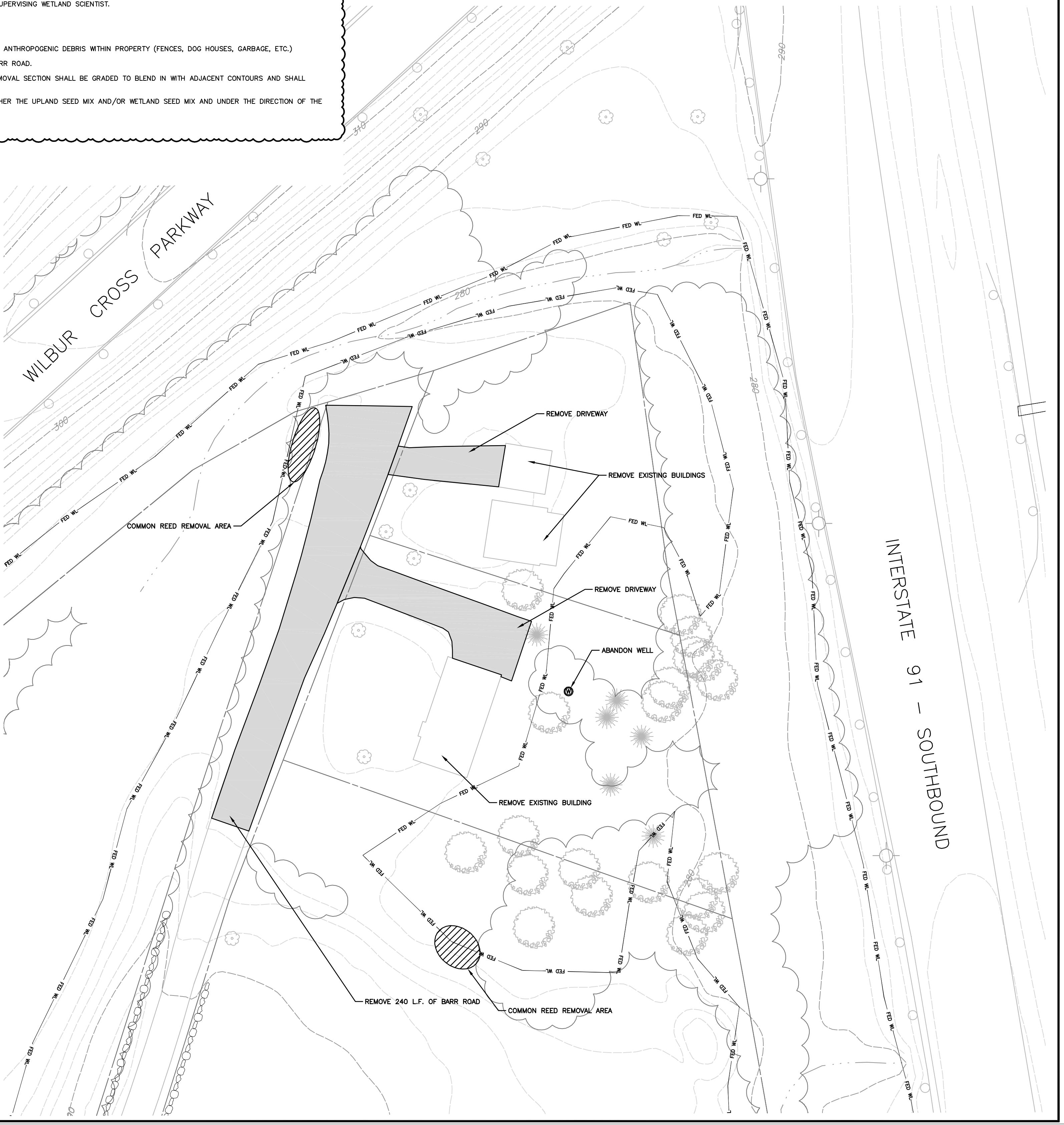
1. REMOVE ALL BUILDINGS, FOUNDATIONS, AND OTHER ANTHROPOGENIC DEBRIS WITHIN PROPERTY (FENCES, DOG HOUSES, GARBAGE, ETC.)
2. REMOVE ASPHALT DRIVEWAYS AND 240 L.F. OF BARR ROAD.
3. FORMER BUILDING, DRIVEWAY, AND BARR ROAD REMOVAL SECTION SHALL BE GRADED TO BLEND IN WITH ADJACENT CONTOURS AND SHALL RECEIVE A MINIMUM OF SIX INCHES OF TOPSOIL.
4. ALL TOPSOILED AREAS SHALL BE SEEDED WITH EITHER THE UPLAND SEED MIX AND/OR WETLAND SEED MIX AND UNDER THE DIRECTION OF THE SUPERVISING WETLAND SCIENTIST.

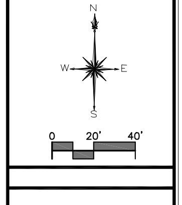
LEGEND

EXISTING		PROPOSED
—— – ——	PROPERTY LINE	
—— · · · ——	EDGE OF WATER	—— · · · ——
—— OHWM ——	ORDINARY HIGH WATER MARK	
—— FED WL ——	FEDERAL WETLANDS	
—— CT WL ——	STATE WETLANDS	
—— 100YRFLP ——	LIMIT OF 100–YEAR FLOODPLAIN	—— 1%FLP ——
—— FW ——	FEMA DELINEATED FLOODWAY	
—— 70 ——	MAJOR CONTOUR	—— 70 ——
—— 68 ——	MINOR CONTOUR	—— 68 ——
	SPOT GRADE	+70.5
⌒⌒⌒⌒	TREE LINE	⌒⌒⌒⌒
	SEDIMENT FILTER FENCE/ COIR LOGS (AS NOTED)	••••••••••
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	● STK



LOCATION MAP
1"=600'





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REVISIONS
△1 03/02/2012
△2 04/18/2012

MITIGATION PLAN - DOG MISERY SWAMP AT BARR ROAD

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

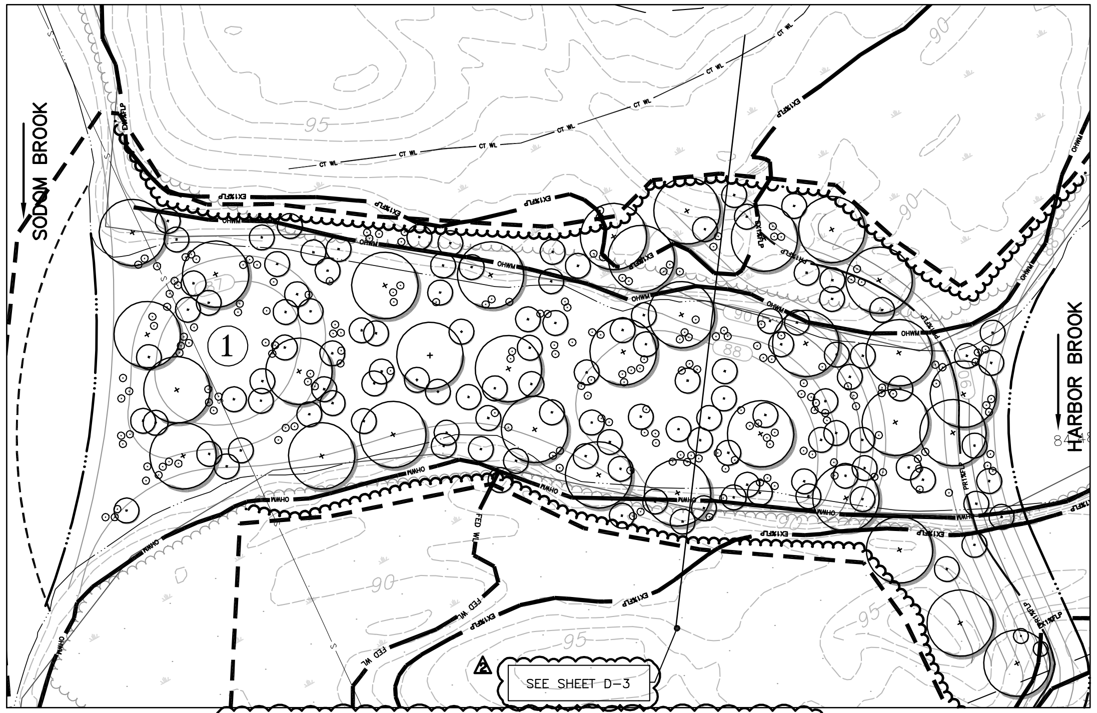
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

DESIGNED	DRAWN	CHECKED
MJS/MTD	MTD	JGM

SCALE 1"=30'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 55 OF 65

SHEET NO. MI-1

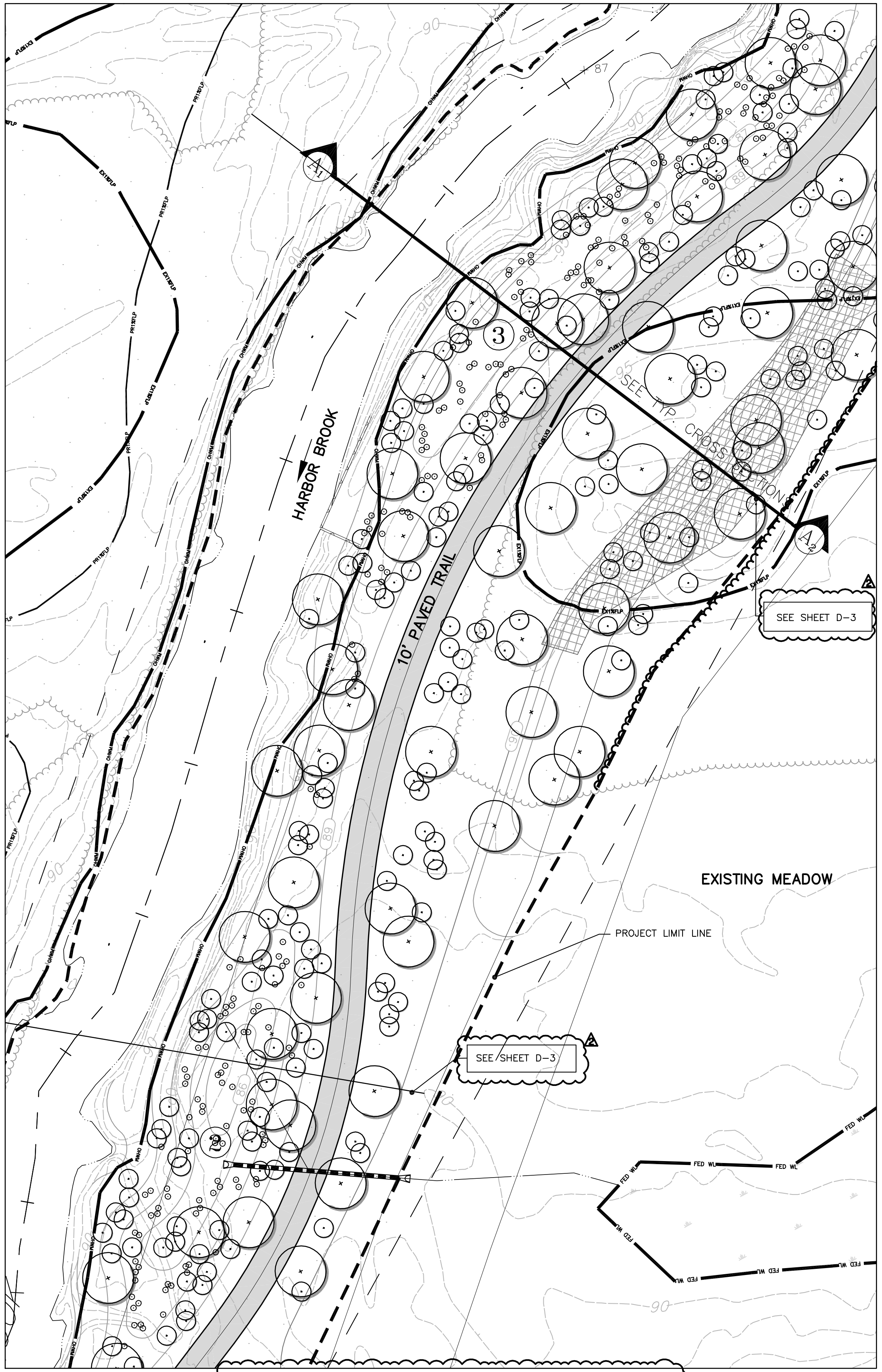


TYPICAL HYDRIC FLOODPLAIN PLANTING AREAS

1" = 20'

FLOODPLAIN PLANTING NOTES

1. PLANT QUANTITIES TO BE DETERMINED DURING FINAL DESIGN PHASES OF PROJECT AND IN ACCORDANCE WITH REGULATORY MITIGATION COMPLIANCE PROTOCOLS.
2. EROSION CONTROLS SHALL BE INSTALLED, REPAIRED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD OF THE WETLAND MITIGATION OR UNTIL THE SITE IS FULLY STABILIZED BY VEGETATION (SEED MIX). EROSION CONTROLS SHALL THEN BE REMOVED FROM THE SITE.
3. A WETLAND SCIENTIST SHALL BE ON SITE TO MONITOR PLANTING AND GRADING OF THE WETLAND RESTORATION AREA TO ENSURE COMPLIANCE WITH THE APPROVED PLANS.
4. GRADING LINES DEPICTED ON THE PLAN ARE DRAWN SMOOTHLY, ACTUAL SURFACE GRADES ACROSS WETLAND 'FLOOR' SHALL REFLECT HUMMOCK AND HOLLOW TOPOGRAPHY OF NATURAL WETLANDS.
5. 6 INCHES OF SUPER ENRICHED TOPSOIL (MUST CONTAIN MINIMUM 12% ORGANIC CARBON BY WEIGHT) SHALL BE INSTALLED OVER THE ROUGH SUB GRADE.
6. ALL WETLAND PLANTINGS ARE TO BE PLANTED ONLY AFTER STABILIZATION OF CONTRIBUTING DRAINAGE AREAS.
7. WETLAND PLANTINGS SHALL BE LIMITED TO THE PERIODS OF APRIL 15 – JUNE 15, OR LATE SEPTEMBER TO MID-NOVEMBER. ONLY QUALITY NATIVE PLANTS FROM A NURSERY SHALL BE USED.
8. ALL WOODY PLANT MATERIAL SHALL BE PROVIDED IN CONTAINERS THAT ARE APPROPRIATELY SIZED FOR THE SPECIFIED PLANT. HERBACEOUS PLANT MATERIAL SHALL BE PLUGS AND CONTAINERIZED. WETLAND PLANTS SHALL HAVE BEEN GROWN IN A LOCAL/REGIONAL NURSERY.
9. WOODY PLANTING CLUSTERS SHALL BE MULCHED TO A 3 INCH DEPTH WITH A DARK COLORED, NON-DYED, SHREDDED BARK MULCH.
10. SUPPLEMENTAL HERBACEOUS PLANTINGS SHALL BE CONCENTRATED IN GROUPINGS, TO BE DETERMINED.
11. HERBACEOUS PLANTINGS TO BE PLUGS TWO FOOT ON CENTER. SHRUB PLANTINGS TO BE 36" O.C. (DEPENDENT UPON SPECIES).
12. ALL TUBERS AND ROOT STOCK SHALL BE PUSHED ONE TO TWO INCHES DEEP INTO THE ORGANIC SOIL & SPACED AS SPECIFIED. PLANTS WITH GROWING STEMS SHALL BE PLANTED SUCH THAT THE GROWING STEM EXTENDS ABOVE THE SOIL SURFACE. WEIGHTING OF TUBERS & ROOT STOCK WITH FENCE STAPLES AND/OR EIGHT PENNY NAILS MAY BE REQUIRED IF DISLODGING & FLOATING IS A PROBLEM.
13. THE SOILS IN THE WETLAND RESTORATION AREAS SHALL BE SEEDED WITH DESIGNATED WETLAND AND UPLAND SEED MIXES AS NOTED IN PLANT LIST. ALL PLUGS & SEED. MIXES SPECIFIED BY NEW ENGLAND WETLAND PLANTS INC. 800 MAIN ST. AMHERST, MA 01002 (413) 256-1752 OR APPROVED EQUIVALENT.
14. WETLAND PLANTING AREAS WILL BE INSPECTED ANNUALLY FOR THE FIRST FIVE YEARS FOLLOWING PLANTING TO IDENTIFY INVASIVE SPECIES AND A REPORT DETAILING TO RELATIVE SUCCESS OF THE MITIGATION PLAN IN TERMS OF BOTH THE HEALTH AND SURVIVAL OF WETLAND PLANTINGS SHALL BE PREPARED.
15. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
16. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.



TYPICAL ALLUVIAL FLOODPLAIN PLANTING AREAS

1" = 20'

0 X' X'

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REVISIONS
1 03/02/2012
2 04/18/2012

FLOODPLAIN WETLAND PLANTING PLAN

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

DESIGNED	DRAWN	CHECKED
MJS	BAM	MJS

SCALE 1"=20'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 56 OF 65
SHEET NO. D-1

Drawing: H:\1261-14\DWG\CURRENT\HB-PLANTING.DWG Layout Tab:D-2
Plotted by: BECKYM On this date: Tue, 2012 April 17 - 1:41pm

FLOODPLAIN AREAS 1, 2, 3, 4, 7 △2

HYDRIC FLOODPLAIN WETLAND AREAS

SHADE TREES	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
⊕				Acer rubrum	Red Maple	3.5"-4" CAL.	B&B, FULL & DENSE
				Acer saccharum	Silver Maple	3.5"-4" CAL.	B&B, FULL & DENSE
				Betula nigra	River Birch	3.5"-4" CAL.	B&B, FULL & DENSE
				Fraxinus americana	Green Ash	3.5"-4" CAL.	B&B, FULL & DENSE
				Quercus bicolor	Swamp White Oak	3.5"-4" CAL.	B&B, FULL & DENSE
				Quercus palustris	Pink Oak	3.5"-4" CAL.	B&B, FULL & DENSE
				Salix nigra	Black Willow	3.5"-4" CAL.	B&B, FULL & DENSE
SHRUBS	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
⊕⊕⊕⊕⊕				Alnus incana	Speckled Alder	3 GAL.	FULL & DENSE
				Aronia arbutifolia	Red Chokeberry	3 GAL.	FULL & DENSE
				Cephalanthus occidentalis	Buttonbush	3 GAL.	FULL & DENSE
				Clethra alnifolia	Sweet Pepperbush	3 GAL.	FULL & DENSE
				Cornus amomum	Silky Dogwood	3 GAL.	FULL & DENSE
				Rhododendron viscosum	Swamp Azalea	3 GAL.	FULL & DENSE
				Salix discolor	Pussy Willow	3 GAL.	FULL & DENSE
				Salix exigua	Sand Bar Willow	3 GAL.	FULL & DENSE
				Vaccinium corybosum	Highbush Blueberry	3 GAL.	FULL & DENSE
				Viburnum dentatum	Northern Arrowwood	3 GAL.	FULL & DENSE
				Viburnum trilobum	American cranberrybush	3 GAL.	FULL & DENSE
HERBACEOUS PLUGS	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE/CONDITION**	**COMMENTS**
				Acorus americanus	American Sweetflag	PLUG	USE STAPLES TO HOLD IN PLUGS
				Carex crinita	Fringed Sedge	PLUG	USE STAPLES TO HOLD IN PLUGS
				Carex lurida	Lurid Sedge	PLUG	USE STAPLES TO HOLD IN PLUGS
				Carex stricta	Tussock Sedge	PLUG	USE STAPLES TO HOLD IN PLUGS
				Carex comosa	Bearded Sedge	PLUG	USE STAPLES TO HOLD IN PLUGS
				Juncus effusus	Soft Rush	PLUG	USE STAPLES TO HOLD IN PLUGS
				Petlandra virginica	Arrow Arum	PLUG	USE STAPLES TO HOLD IN PLUGS
				Schoenoplectus tabernaemontani	Soft Stem Bulrush	PLUG	USE STAPLES TO HOLD IN PLUGS
				Scirpus pungens	Three Square Rush	PLUG	USE STAPLES TO HOLD IN PLUGS
				Iris versicolor	Blue Flag Iris	PLUG	USE STAPLES TO HOLD IN PLUGS
				Pontederia cordata	Pickerelweed	PLUG	USE STAPLES TO HOLD IN PLUGS
				Sagittaria latifolia	Duck Potato	PLUG	USE STAPLES TO HOLD IN PLUGS
				Scirpus cyperinus	Woolgrass	PLUG	USE STAPLES TO HOLD IN PLUGS
				Sparganium americanum	Burreed	PLUG	USE STAPLES TO HOLD IN PLUGS

RECOMMENDED APPLICATION RATE:
(2500 SQUARE FEET/ LB)

NEW ENGLAND WETMIX (WETLAND SEED MIX)

SEED MIX Species: Fox Sedge (Carex vulpinoidea), Bearded Sedge (Carex comosa), Lurid Sedge (Carex lurida), Soft Rush (Juncus effusus), Grass-leaved Goldenrod (Euthamia graminifolia), Boneset (Eupatorium perfoliatum), Hop Sedge (Carex lupulina), Blue Vervain (Verbena hastata), Nodding Sedge (Carex gynandra), Green Bulrush (Scirpus atrovirens), Sensitive Fern (Onoclea sensibilis), Blue Flag Iris (Iris versicolor), Woolgrass (Scirpus cyperinus), Spotted Joe Pye weed (Eupatorium maculatum), Swamp Milkweed (Asclepias incarnata), Monkey Flower (Mimulus ringens), Soft-Stem Bulrush (Shoenoplectus tabernaemontani) (ex- S. validus), Hardstem Bulrush (Schoenoplectus acutus) (ex-Scirpus acutus), Nodding Bur Marigold (Bidens cernua), Flat-top Aster (Aster umbellatus).

NOTE: PLANT QUANTITIES SHALL BE DETERMINED DURING FINAL DESIGN.

FLOODPLAIN AREAS 5, 6 △2

ALLUVIAL FLOODPLAIN WETLAND AREAS

SHADE TREES	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
⊕				Acer rubrum	Red Maple	3.5"-4" CAL.	B&B, FULL & DENSE
				Acer saccharum	Silver Maple	3.5"-4" CAL.	B&B, FULL & DENSE
				Platanus occidentalis	American Sycamore	3.5"-4" CAL.	B&B, FULL & DENSE
				Populus deltoids	Eastern Cottonwood	3.5"-4" CAL.	B&B, FULL & DENSE
				Quercus bicolor	Swamp White Oak	3.5"-4" CAL.	B&B, FULL & DENSE
				Quercus palustris	Pin Oak	3.5"-4" CAL.	B&B, FULL & DENSE
				Salix nigra	Black Willow	3.5"-4" CAL.	B&B, FULL & DENSE
TREE SAPLINGS	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
⊕				Acer negundo	Boxelder	5'-6' HT.	CONTAINER
				Acer rubrum	Red Maple	5'-6' HT.	CONTAINER
				Acer saccharum	Silver Maple	5'-6' HT.	CONTAINER
				Betula populifolia	Gray Birch	5'-6' HT.	CONTAINER
				Betula nigra	River Birch	5'-6' HT.	CONTAINER
				Platanus occidentalis	American Sycamore	5'-6' HT.	CONTAINER
				Populus deltoids	Eastern Cottonwood	5'-6' HT.	CONTAINER
				Quercus bicolor	Swamp White Oak	5'-6' HT.	CONTAINER
				Quercus palustris	Pin Oak	5'-6' HT.	CONTAINER
				Salix nigra	Black Willow	5'-6' HT.	CONTAINER
SHRUBS	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
⊕⊕⊕⊕⊕				Alnus incana	Speckled Alder	3 GAL.	FULL & DENSE
				Aronia arbutifolia	Red Chokeberry	3 GAL.	FULL & DENSE
				Clethra alnifolia	Sweet Pepperbush	3 GAL.	FULL & DENSE
				Cornus amomum	Silky Dogwood	3 GAL.	FULL & DENSE
				Cornus racemosa	Grey Dogwood	3 GAL.	FULL & DENSE
				Salix discolor	Pussy Willow	3 GAL.	FULL & DENSE
				Salix exigua	Sand Bar Willlow	3 GAL.	FULL & DENSE
				Spirea latifolia	Meadowsweet	3 GAL.	FULL & DENSE
				Viburnum dentatum	Northern Arrowwood	3 GAL.	FULL & DENSE
				Viburnum trilobum	American Cranberrybush	3 GAL.	FULL & DENSE
				Viburnum lentago	Nannyberry Viburnum	3 GAL.	FULL & DENSE
HERBACEOUS PLUGS	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
				Matteuccia struthiopteris	Ostrich Fern	PLUG	USE STAPLES TO HOLD IN PLUGS
				Osmunda cinnamomea	Cinnamon Fern	PLUG	USE STAPLES TO HOLD IN PLUGS

RECOMMENDED APPLICATION RATE:
(1250 SQUARE FEET/ LB)

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

SEED MIX Species: Switchgrass (Panicum virgatum), Virginia Wild Rye (Elymus virginicus), Creeping Red Fescue (Festuca rubra), Fox Sedge (Carex vulpinoidea), Creeping Bentgrass (Agrostis stolonifera), Soft Rush (Juncus effusus), New England Aster (Aster novae-angliae), Grass-leaved Goldenrod (Euthamia graminifolia), Green Bulrush (Scirpus atrovirens), Boneset (Eupatorium perfoliatum), Blue Vervain (Verbena hastata) Upland Bentgrass (Agrostis perennans), Big Bluestem, Niagra (Andropogon gerardii), Sensitive Fern (Onoclea sensibilis), Little Bluestem (Schizachyrium scoparium), Woolgrass (Scirpus cyperinus).

RECOMMENDED APPLICATION RATE:
(1743 SQUARE FEET/ LB)

NEW ENGLAND CONSERVATION/WILDLIFE MIX

SEED MIX Species: Big Bluestem (Andropogon gerardii), Switchgrass (Panicum virgatum), Little Bluestem (Schizachyrium scoparium), Canada Wild Rye (Elymus canadensis), Fox Sedge (Carex vulpinoidea), Partridge Pea (Chamaecrista fasciculata), Fringed Bromegrass (Bromus ciliatus), Pennsylvania Smartweed (Polygonum pensylvanicum), Common Milkweed (Asclepias syriaca), Showy Tick-Trefoil (Desmodium canadense), New England Aster (Aster novae-angliae), Flat-top Aster (Aster umbellatus), Nodding Bur-Marigold (Bidens cernua).

NOTE: PLANT QUANTITIES SHALL BE DETERMINED DURING FINAL DESIGN.

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REVISIONS
△1 03/02/2012
△2 04/18/2012

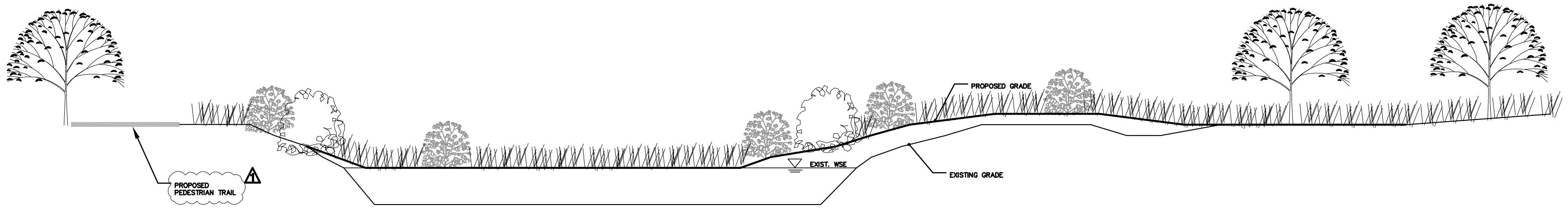
FLOODPLAIN WETLAND AREAS - PLANTING SCHEDULES
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT
HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

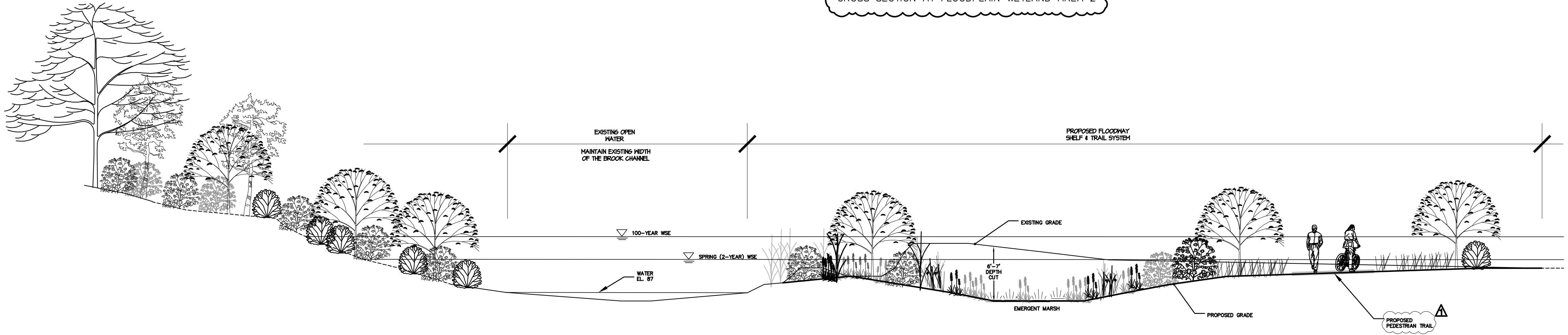
MJS	BAM	MJS
DESIGNED	DRAWN	CHECKED

SCALE ---
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 57 OF 65

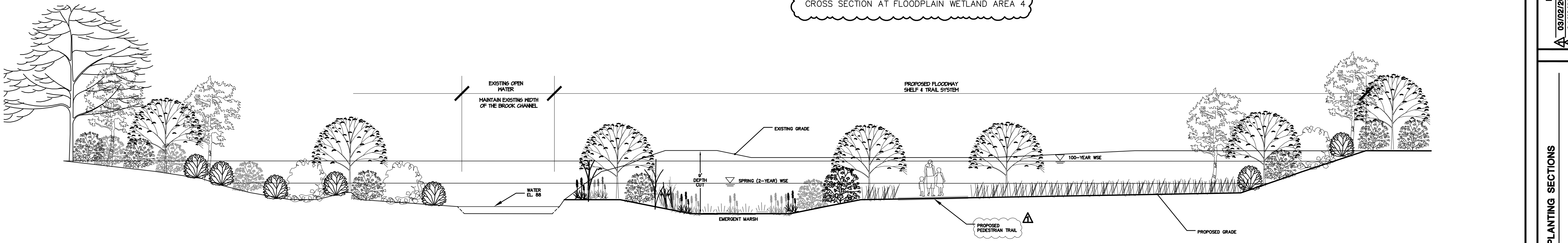
D-2
SHEET NO.


PROPOSED GRADE
EXIST. WSE
EXISTING GRADE
PROPOSED PEDESTRIAN TRAIL
1

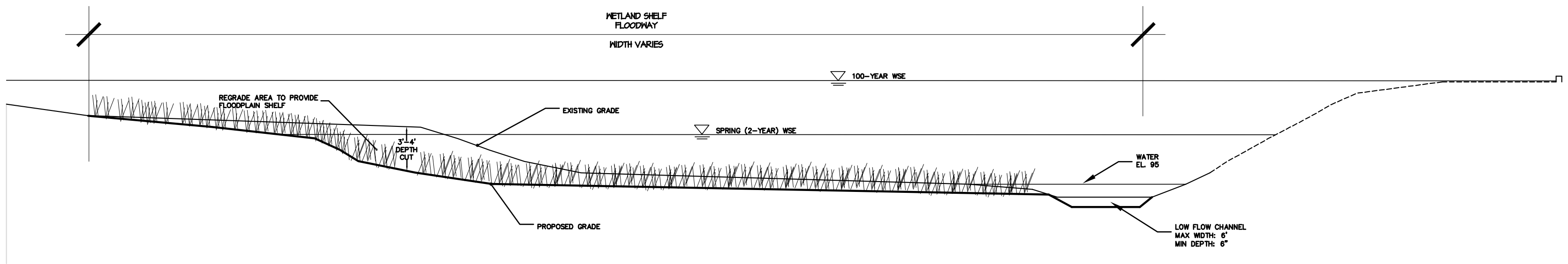
CROSS SECTION AT FLOODPLAIN WETLAND AREA 2 2


EXISTING OPEN WATER
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
PROPOSED FLOODWAY SHELF & TRAIL SYSTEM
100-YEAR WSE
SPRING (2-YEAR) WSE
WATER EL. 87
EXISTING GRADE
6'-7' DEPTH CUT
EMERGENT MARSH
PROPOSED GRADE
PROPOSED PEDESTRIAN TRAIL
1

CROSS SECTION AT FLOODPLAIN WETLAND AREA 4 2


EXISTING OPEN WATER
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
PROPOSED FLOODWAY SHELF & TRAIL SYSTEM
EXISTING GRADE
100-YEAR WSE
9' DEPTH CUT
SPRING (2-YEAR) WSE
WATER EL. 88
EMERGENT MARSH
PROPOSED PEDESTRIAN TRAIL
1
PROPOSED GRADE

CROSS SECTION AT FLOODPLAIN WETLAND AREA 5 2


WETLAND SHELF FLOODWAY
WIDTH VARIES
100-YEAR WSE
REGRADE AREA TO PROVIDE FLOODPLAIN SHELF
EXISTING GRADE
3'-4' DEPTH CUT
SPRING (2-YEAR) WSE
WATER EL. 95
PROPOSED GRADE
LOW FLOW CHANNEL
MAX WIDTH: 6'
MIN DEPTH: 6"

CROSS SECTION AT FLOODPLAIN WETLAND AREA 6 2

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2 04/18/2012

TYPICAL FLOODPLAIN WETLAND PLANTING SECTIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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DESIGNED	DRAWN	CHECKED

SCALE NTS

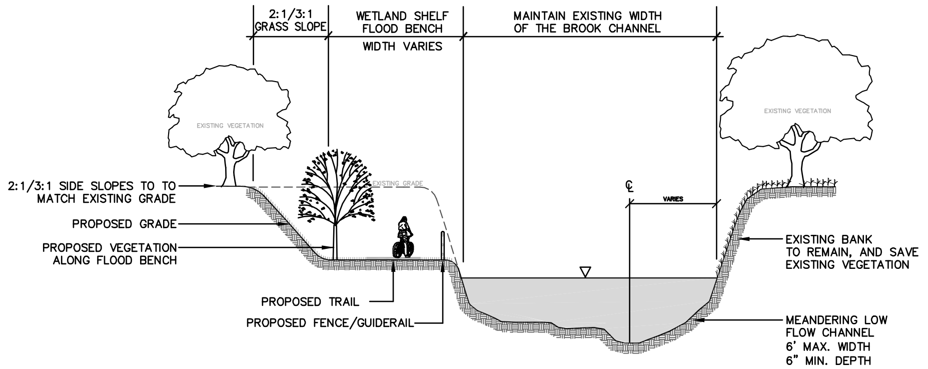
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 58 OF 65

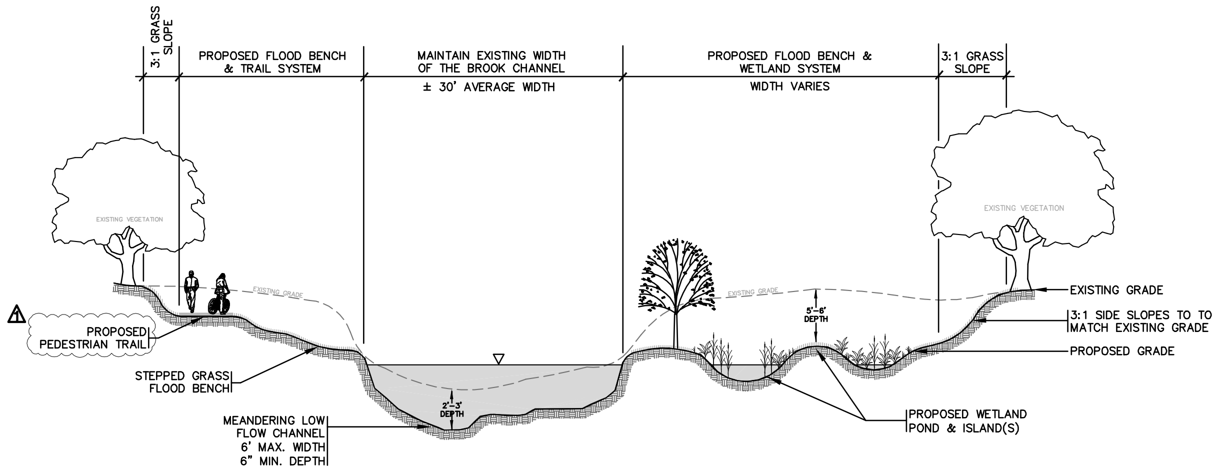
D-3
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-PLANTING.DWG Layout Tab:D-4
Plotted by: BECKYM On this date: Tue, 2012 April 17 - 1:41pm


2:1/3:1 GRASS SLOPE
WETLAND SHELF FLOOD BENCH
WIDTH VARIES
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
EXISTING VEGETATION
EXISTING VEGETATION
EXISTING GRADE
℄
VARIES
2:1/3:1 SIDE SLOPES TO TO MATCH EXISTING GRADE
PROPOSED GRADE
PROPOSED VEGETATION ALONG FLOOD BENCH
PROPOSED TRAIL
PROPOSED FENCE/GUIDERAIL
EXISTING BANK TO REMAIN, AND SAVE EXISTING VEGETATION
MEANDERING LOW FLOW CHANNEL 6' MAX. WIDTH 6" MIN. DEPTH

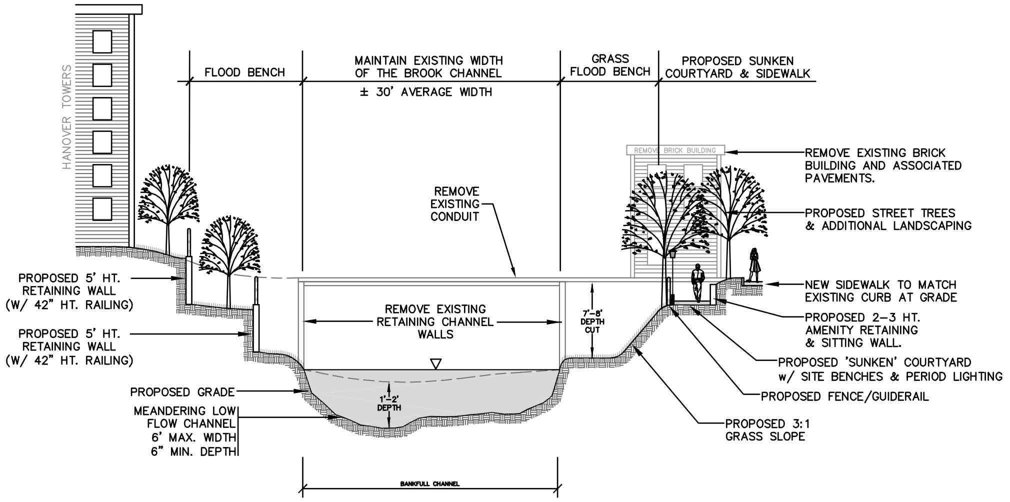
TYPICAL FLOOD BENCH CROSS SECTION: A_1 - A_2

NOT TO SCALE


3:1 GRASS SLOPE
PROPOSED FLOOD BENCH & TRAIL SYSTEM
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
± 30' AVERAGE WIDTH
PROPOSED FLOOD BENCH & WETLAND SYSTEM
WIDTH VARIES
3:1 GRASS SLOPE
EXISTING VEGETATION
EXISTING VEGETATION
EXISTING GRADE
EXISTING GRADE
1
PROPOSED PEDESTRIAN TRAIL
STEPPED GRASS FLOOD BENCH
MEANDERING LOW FLOW CHANNEL 6' MAX. WIDTH 6" MIN. DEPTH
2'-3' DEPTH
5'-6' DEPTH
EXISTING GRADE
3:1 SIDE SLOPES TO TO MATCH EXISTING GRADE
PROPOSED GRADE
PROPOSED WETLAND POND & ISLAND(S)

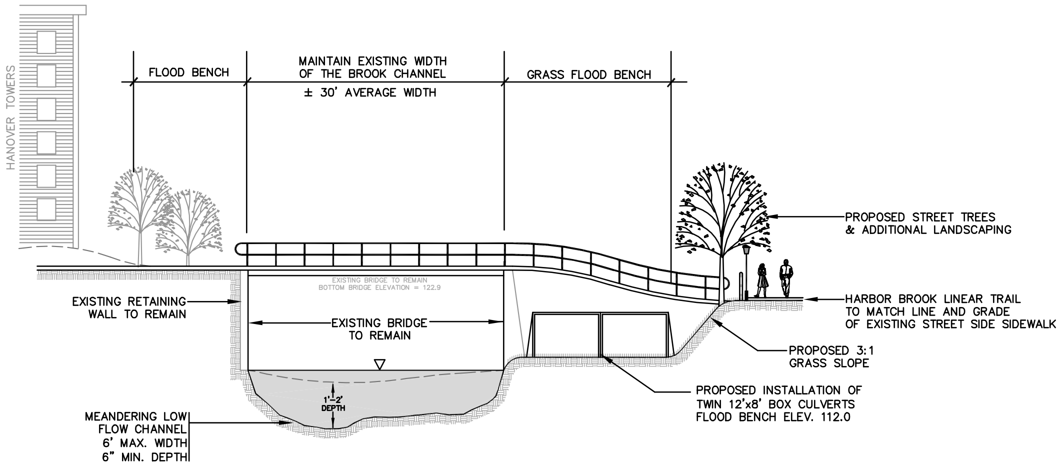
TYPICAL FLOOD BENCH CROSS SECTION: B_1 - B_2

NOT TO SCALE


HANOVER TOWERS
FLOOD BENCH
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
± 30' AVERAGE WIDTH
GRASS FLOOD BENCH
PROPOSED SUNKEN COURTYARD & SIDEWALK
REMOVE BRICK BUILDING
REMOVE EXISTING BRICK BUILDING AND ASSOCIATED PAVEMENTS.
REMOVE EXISTING CONDUIT
PROPOSED STREET TREES & ADDITIONAL LANDSCAPING
PROPOSED 5' HT. RETAINING WALL (W/ 42" HT. RAILING)
PROPOSED 5' HT. RETAINING WALL (W/ 42" HT. RAILING)
REMOVE EXISTING RETAINING CHANNEL WALLS
7'-8' DEPTH CUT
NEW SIDEWALK TO MATCH EXISTING CURB AT GRADE
PROPOSED 2-3 HT. AMENITY RETAINING & SITTING WALL.
PROPOSED 'SUNKEN' COURTYARD w/ SITE BENCHES & PERIOD LIGHTING
PROPOSED FENCE/GUIDERAIL
PROPOSED GRADE
MEANDERING LOW FLOW CHANNEL 6' MAX. WIDTH 6" MIN. DEPTH
1'-2' DEPTH
PROPOSED 3:1 GRASS SLOPE
BANKFULL CHANNEL

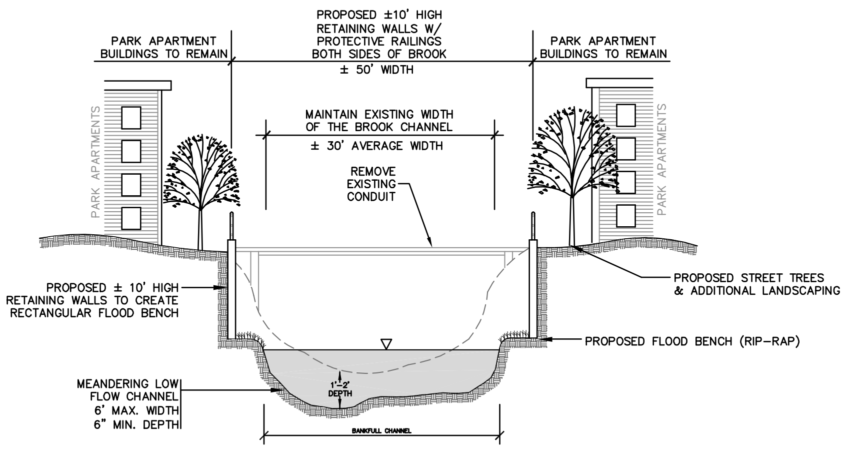
TYPICAL FLOOD BENCH CROSS SECTION: C_1 - C_2

NOT TO SCALE


HANOVER TOWERS
FLOOD BENCH
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
± 30' AVERAGE WIDTH
GRASS FLOOD BENCH
PROPOSED STREET TREES & ADDITIONAL LANDSCAPING
EXISTING BRIDGE TO REMAIN BOTTOM BRIDGE ELEVATION = 122.9
EXISTING RETAINING WALL TO REMAIN
EXISTING BRIDGE TO REMAIN
HARBOR BROOK LINEAR TRAIL TO MATCH LINE AND GRADE OF EXISTING STREET SIDE SIDEWALK
PROPOSED 3:1 GRASS SLOPE
PROPOSED INSTALLATION OF TWIN 12'x8' BOX CULVERTS FLOOD BENCH ELEV. 112.0
1'-2' DEPTH
MEANDERING LOW FLOW CHANNEL 6' MAX. WIDTH 6" MIN. DEPTH

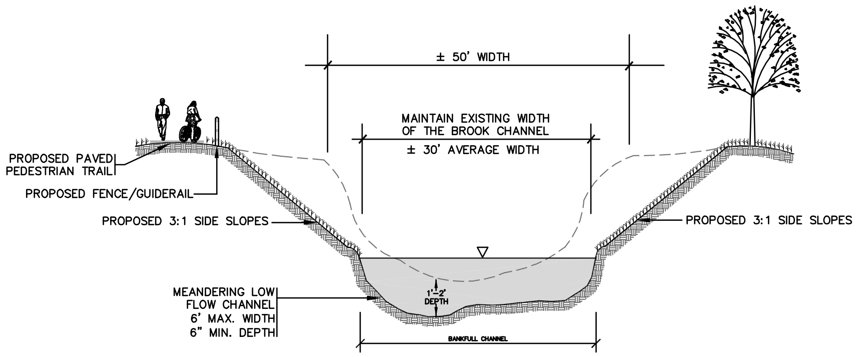
TYPICAL FLOOD BENCH CROSS SECTION: D_1 - D_2

NOT TO SCALE


PARK APARTMENT BUILDINGS TO REMAIN
PROPOSED ±10' HIGH RETAINING WALLS W/ PROTECTIVE RAILINGS BOTH SIDES OF BROOK
± 50' WIDTH
PARK APARTMENT BUILDINGS TO REMAIN
PARK APARTMENTS
PARK APARTMENTS
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
± 30' AVERAGE WIDTH
REMOVE EXISTING CONDUIT
PROPOSED ± 10' HIGH RETAINING WALLS TO CREATE RECTANGULAR FLOOD BENCH
PROPOSED STREET TREES & ADDITIONAL LANDSCAPING
PROPOSED FLOOD BENCH (RIP-RAP)
MEANDERING LOW FLOW CHANNEL 6' MAX. WIDTH 6" MIN. DEPTH
1'-2' DEPTH
BANKFULL CHANNEL

TYPICAL FLOOD BENCH CROSS SECTION: E_1 - E_2

NOT TO SCALE


± 50' WIDTH
MAINTAIN EXISTING WIDTH OF THE BROOK CHANNEL
± 30' AVERAGE WIDTH
PROPOSED PAVED PEDESTRIAN TRAIL
PROPOSED FENCE/GUIDERAIL
PROPOSED 3:1 SIDE SLOPES
PROPOSED 3:1 SIDE SLOPES
MEANDERING LOW FLOW CHANNEL 6' MAX. WIDTH 6" MIN. DEPTH
1'-2' DEPTH
BANKFULL CHANNEL

TYPICAL FLOOD BENCH CROSS SECTION: F_1 - F_2

NOT TO SCALE

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1 03/02/2012
2 04/18/2012

TYPICAL CROSS SECTIONS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE NTS

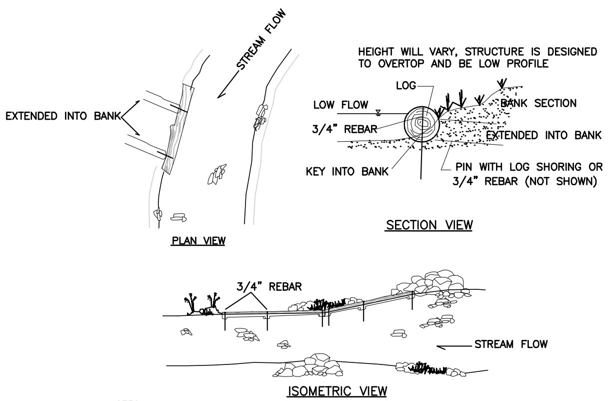
DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 59 OF 65

D-4
SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-DETAILS.DWG Layout Tab:D-5
Plotted by: BECKYM On this date: Tue, 2012 April 17 - 1:42pm

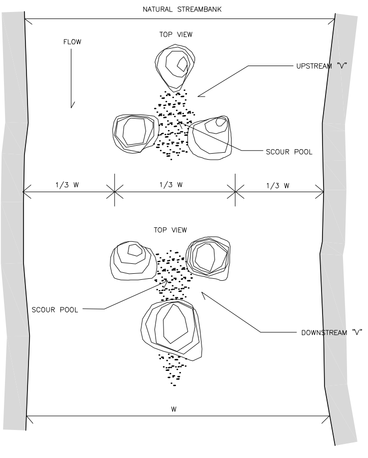

STREAM FLOW
EXTENDED INTO BANK
PLAN VIEW
HEIGHT WILL VARY, STRUCTURE IS DESIGNED TO OVERTOP AND BE LOW PROFILE
LOG
LOW FLOW
3/4" REBAR
KEY INTO BANK
BANK SECTION
EXTENDED INTO BANK
PIN WITH LOG SHORING OR 3/4" REBAR (NOT SHOWN)
SECTION VIEW
3/4" REBAR
STREAM FLOW
ISOMETRIC VIEW

NOTES:

- Use 8 to 12 inch diameter logs.
- Crooked logs with limb stubs produce best results.
- Pin the bank log to abutment logs or directly to the ground to install.
- Embed the bank log several inches into the bank.
- Pin bank logs to the ground using 3/4" steel rebar at least 36 inches long.
- Anchor abutment logs at least 4–6 feet into stream bank.
- Use pre–drilled pilot holes to pin cover logs to abutment logs or to the ground.
- Use 1' to 2' diameter stones upstream and downstream of the structure to protect it from erosion.
- All efforts will be made to gather logs and stone on site.
- Install at a low profile such that the cover log is partially submerged during normal low flow.
- Finished elevation of the cover log will be determined in the field.

LOG REVETMENT

N.T.S.

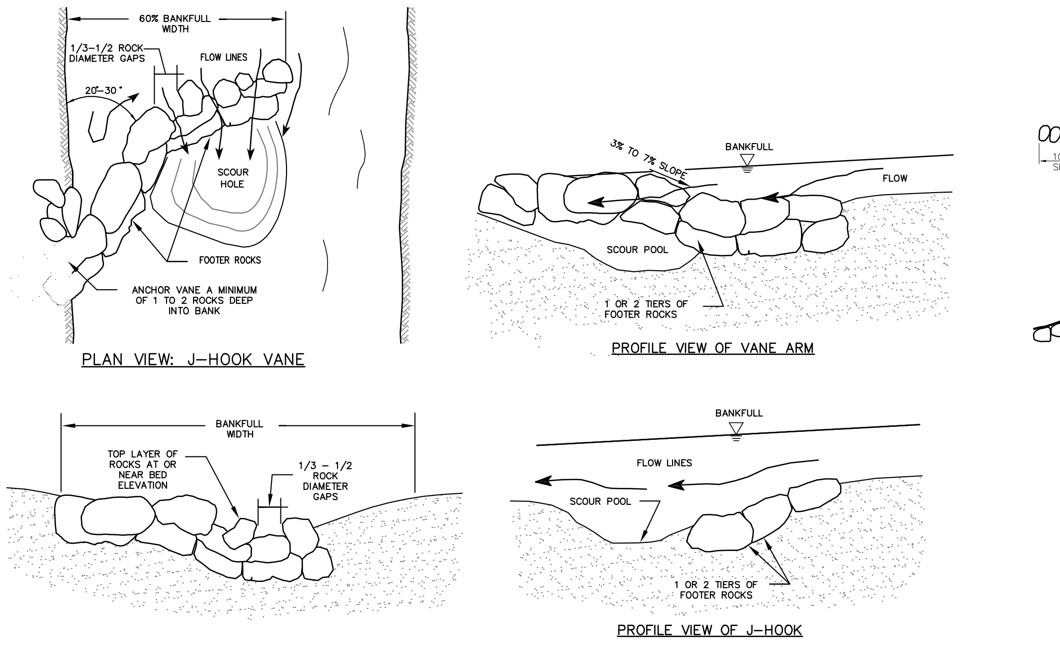

NATURAL STREAMBANK
FLOW
TOP VIEW
UPSTREAM "V"
SCOUR POOL
1/3 W
1/3 W
1/3 W
TOP VIEW
SCOUR POOL
DOWNSTREAM "V"
W

PLAN VIEW

RANDOM BOULDER CLUSTER

NOTES:

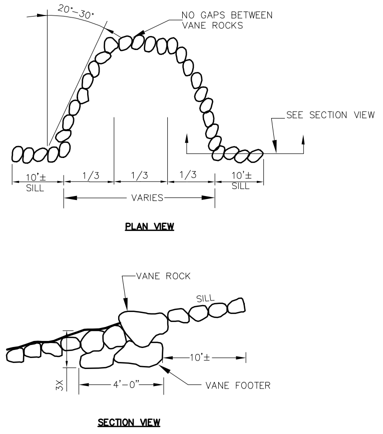
- 3 boulders per random boulder cluster.
- Place boulders in the middle third of the stream within deepest portion of channel.
- Position boulder groups in a upstream or downstream "V" formation.
- Individual boulders placed in the stream should be 12" to 24" in diameter.
- Position boulders with their long axis parallel to the stream flow.
- Install all boulders at a low profile such that they are partially submerged during normal low flow.
- Finished elevation of the boulders will be determined in the field.


60% BANKFULL WIDTH
1/3–1/2 ROCK DIAMETER GAPS
FLOW LINES
20°–30°
SCOUR HOLE
FOOTER ROCKS
ANCHOR VANE A MINIMUM OF 1 TO 2 ROCKS DEEP INTO BANK
PLAN VIEW: J–HOOK VANE
3% TO 7% SLOPE
BANKFULL
FLOW
SCOUR POOL
1 OR 2 TIERS OF FOOTER ROCKS
PROFILE VIEW OF VANE ARM
BANKFULL WIDTH
TOP LAYER OF ROCKS AT OR NEAR BED ELEVATION
1/3 – 1/2 ROCK DIAMETER GAPS
SECTION VIEW: J–HOOK VANE
BANKFULL
FLOW LINES
SCOUR POOL
1 OR 2 TIERS OF FOOTER ROCKS
PROFILE VIEW OF J–HOOK

MODIFIED TO FIT
FIELD CONDITIONS

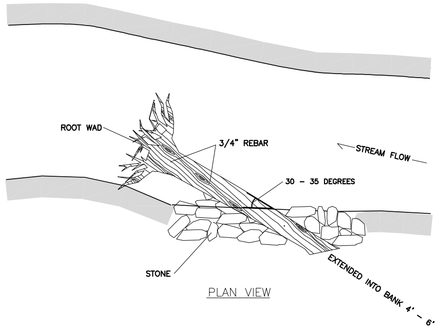
J–HOOK VANE

N.T.S.


20°–30°
NO GAPS BETWEEN VANE ROCKS
SEE SECTION VIEW
10'±
SILL
1/3
1/3
1/3
10'±
SILL
VARIES
PLAN VIEW
VANE ROCK
SILL
10'±
3X
4'–0"
VANE FOOTER
SECTION VIEW

CROSS VANE

N.T.S.

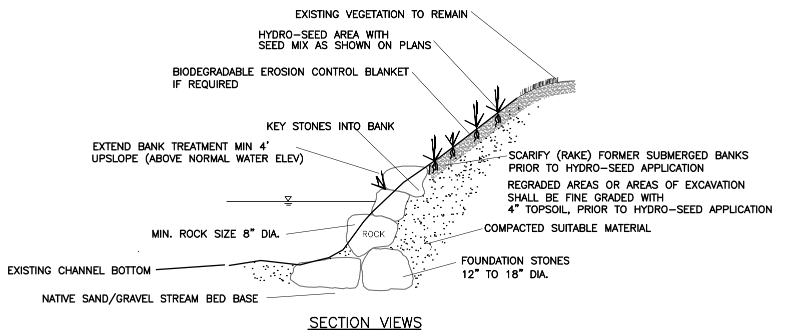

ROOT WAD
3/4" REBAR
STREAM FLOW
30 – 35 DEGREES
STONE
EXTENDED INTO BANK 4' – 6'
PLAN VIEW

NOTES:

1. – Use logs with root wads 8 to 12 inches in diameter.
2. – Install the log with root wad across the stream bottom at a 30–35 degree angle from the stream bank.
3. – Pin the log with root wad at several locations using 3/4 inch steel rebar at least 36 inches long.
4. – Use pre–drilled pilot holes to pin the log with root wad to the ground.
5. – Anchor the log with root wad at least 4–6 feet into the stream bank.
6. – Use 6" to 2' diameter rounded stones upstream and downstream of the structure to protect it from erosion.
7. – All efforts will be made to gather logs with root wads on site.
8. – Install at a low profile such that the deflector is submerged during normal low flow.
9. – Finished elevation of the deflector will be determined in the field.
10. – Contractor to furnish and install root wad deflector.
    Shall be included in the item "Site Improvements"
    Contractor shall notify town official with specific root wads to be utilized for this project for approval.

ROOT WAD DEFLECTOR

NTS

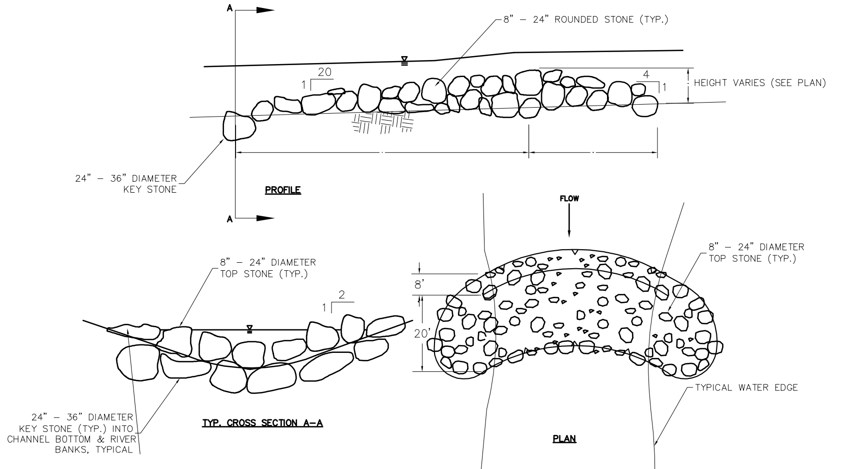

EXISTING VEGETATION TO REMAIN
HYDRO–SEED AREA WITH SEED MIX AS SHOWN ON PLANS
BIODEGRADABLE EROSION CONTROL BLANKET IF REQUIRED
KEY STONES INTO BANK
EXTEND BANK TREATMENT MIN 4' UPSLOPE (ABOVE NORMAL WATER ELEV)
SCARIFY (RAKE) FORMER SUBMERGED BANKS PRIOR TO HYDRO–SEED APPLICATION
REGRADED AREAS OR AREAS OF EXCAVATION SHALL BE FINE GRADED WITH 4" TOPSOIL, PRIOR TO HYDRO–SEED APPLICATION
COMPACTED SUITABLE MATERIAL
ROCK
MIN. ROCK SIZE 8" DIA.
EXISTING CHANNEL BOTTOM
FOUNDATION STONES 12" TO 18" DIA.
NATIVE SAND/GRAVEL STREAM BED BASE
SECTION VIEWS

NOTES: (Stone Stabilization)

- Use 8" to 3' diameter weathered rounded stones.
- Embed the stone several inches into the stream bank to key into the bank.
- Finished elevation of the stones will be determined in the field.

STONE/BOULDER REVETMENT

N.T.S.

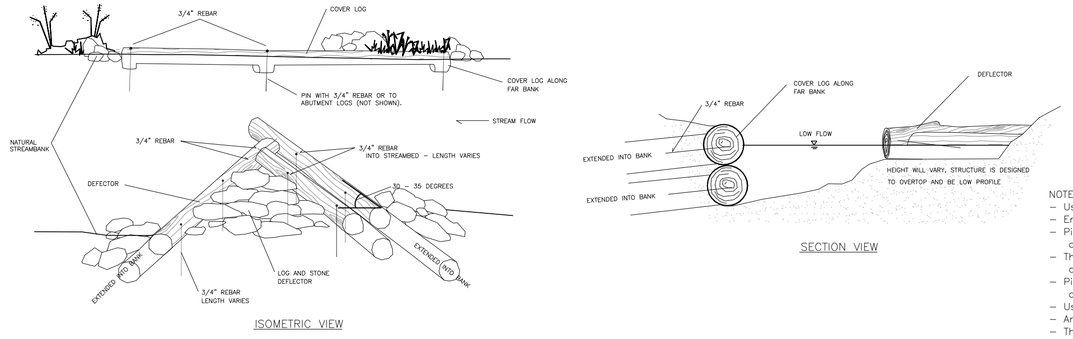

A
A
8" – 24" ROUNDED STONE (TYP.)
20
1
4
1
HEIGHT VARIES (SEE PLAN)
24" – 36" DIAMETER KEY STONE
PROFILE
8" – 24" DIAMETER TOP STONE (TYP.)
2
1
24" – 36" DIAMETER KEY STONE (TYP.) INTO CHANNEL BOTTOM & RIVER BANKS, TYPICAL
TYP. CROSS SECTION A–A
FLOW
8'
20'
8" – 24" DIAMETER TOP STONE (TYP.)
TYPICAL WATER EDGE
PLAN

NOTE:
STONE RIFFLES SHALL BE CONSTRUCTED CONCAVE WITH GAPS BETWEEN TOP STONES.

STONE RIFFLE

N.T.S.

NOTE: ORIGINAL STREAMBED UPSTREAM AND DOWNSTREAM OF RIFFLES SHALL BE SUPPLEMENTED WITH 12" THICK LAYER OF 4"–12" ROUNDED COBBLE, AS DIRECTED BY ENGINEER.

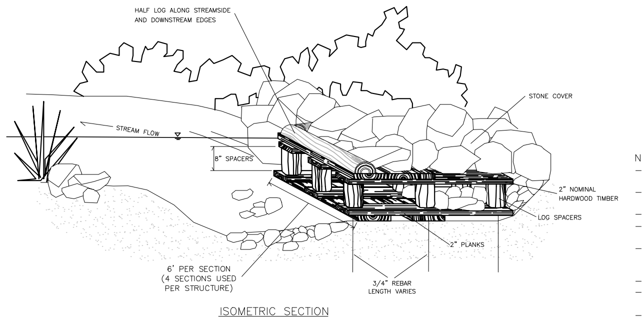

3/4" REBAR
COVER LOG
COVER LOG ALONG FAR BANK
PIN WITH 3/4" REBAR OR TO ABUTMENT LOGS (NOT SHOWN).
STREAM FLOW
NATURAL STREAMBANK
3/4" REBAR
3/4" REBAR INTO STREAMBED – LENGTH VARIES
DEFECTOR
30 – 35 DEGREES
EXTENDED INTO BANK
LOG AND STONE DEFLECTOR
3/4" REBAR LENGTH VARIES
EXTENDED INTO BANK
ISOMETRIC VIEW
3/4" REBAR
COVER LOG ALONG FAR BANK
DEFLECTOR
LOW FLOW
EXTENDED INTO BANK
EXTENDED INTO BANK
HEIGHT WILL VARY, STRUCTURE IS DESIGNED TO OVERTOP AND BE LOW PROFILE
SECTION VIEW

NOTES:

- Use 8 to 12 inch diameter logs.
- Embed the main and brace logs several inches into the stream bottom.
- Pin the main and brace logs to the ground using 3/4" steel rebar at least 36 inches long.
- The main log of the deflector should extend into the stream at an angle of 30–35 degrees to the stream bank.
- Pin the brace log to the main log several feet from the tip at about a 90 degree angle.
- Use pre–drilled pilot holes to pin logs together and to the ground.
- Anchor the main and brace logs at least 4–6 feet into stream bank.
- The low flow stream width should be narrowed by 70–80% in most cases.
- Fill inner crib with 2" to 12" diameter stone.
- Use cover log if needed for stabilization of opposite stream bank.
- Position the midpoint of the cover log opposite the apex of the deflector.
- All notes for the cover log apply if used.
- All efforts will be made to gather logs on site.
- Install at a low profile such that the structures are partially submerged during normal low flow.
- Finished elevation of the cover log will be determined in the field.

LOG AND STONE DEFLECTOR WITH COVER LOG

N.T.S.


HALF LOG ALONG STREAMSIDE AND DOWNSTREAM EDGES
STONE COVER
STREAM FLOW
8" SPACERS
2" NOMINAL HARDWOOD TIMBER
LOG SPACERS
2" PLANKS
6' PER SECTION (4 SECTIONS USED PER STRUCTURE)
3/4" REBAR LENGTH VARIES
ISOMETRIC SECTION

LUNKER STRUCTURE OVERHEAD BANK COVER

N.T.S.

NOTES:

- Use four 6' prefabricated sections per single lunker structure overhead bank cover.
- Use 2 inch nominal hardwood timber and log spacers to prefabricate the lunker structure.
- Place lunker structure into the stream against the stream bank.
- Pin the structure in place using 3/4 inch steel rebar at least 36 inches long.
- Fill the back portion of the structure with previously excavated material and large to medium sized stones. – Completely cover the structure with stone and fill material.
- Sort out larger stones to line the front edge of the structure.
- Apply a layer of top dressing of wetland mulch from excavated channel and grass seed or field sod.
- Use 6" to 2' diameter stones upstream and downstream of the structure to protect structure from erosion.
- Install at a low profile such that the lunker structure is partially submerged during normal low flow, and excavate the stream bottom if necessary.
- Finished elevation of the structure will be determined in the field.

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1 03/02/2012
2 04/18/2012

INSTREAM CHANNEL IMPROVEMENTS DETAILS

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

NEB	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE --

DATE FEB 2011

PROJECT NO. 1261-14-20

SHEET NO. 60 OF 65

D-5
SHEET NO.

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL: THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

GENERAL:

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
   a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   b. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   c. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
   d. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
   e. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
   f. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
   g. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTERANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:

1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
3. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS. 4. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
5. SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY. 6. THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR INCHES (4"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER

GENERAL:

1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 4 INCHES OF SOIL USING SUITABLE EQUIPMENT.
4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE CONCENTRATED FLOW WILL OCCUR.

PERMANENT VEGETATIVE COVER

GENERAL:

1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN. 5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

   SPREAD SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10–10–10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300 LBS. OF 10–10–10 FERTILIZER PER ACRE. AFTER SEPTEMBER 1, TEMPORARY VEGETATIVE COVER SHALL BE APPLIED.

   FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10–10–10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).

MULCHING:

STRAY OR HAY 70–90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS)

WOOD FIBER IN HYDROMULCH SLURRY 25–50 LBS./1,000 SQ. FT.

VEGETATIVE COVER SELECTION & MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS (IOLUIUM PERENNE)	3 LBS./1,000 SQ.FT.

PERMANENT VEGETATIVE COVER:

CREEPING RED FESCUE (FESTUCA RUBRA)	2 LBS./1,000 SQ.FT.
REDTOP (AGROSTIS ALBA)	1 LB./1,000 SQ.FT.
TALL FESCUE (FESTUCA ARUNDINACEA)	2 LBS./1,000 SQ.FT.

MULCHING:

STRAY OR HAY (TEMPORARY VEGETATIVE AREAS)	70–90 LBS./1,000 SQ.FT.

WOOD FIBER IN HYDROMULCH SLURRY 25–50 LBS./1,000 SQ. FT.

ESTABLISHMENT:

1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
6. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.
2. ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10–10–10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
3. ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE (3) YEARS OR AS INDICATED BY SOIL TEST 300 POUNDS OF 0–20–20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

EROSION CHECKS

GENERAL:

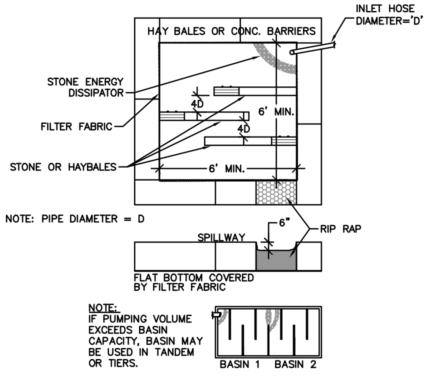
1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR SEDIMENT GEOTEXTILE FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

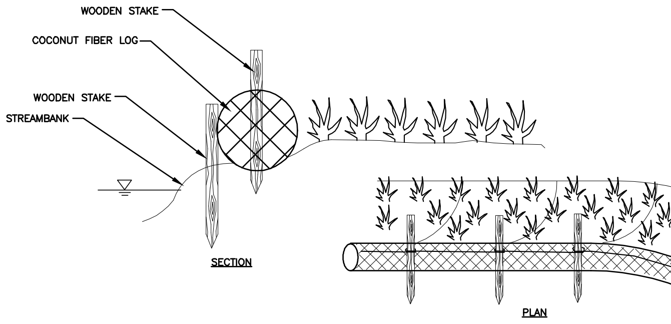
1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS WHEN BASIN IS BOTTOM OF ALL SLOPES.
2. BALED HAY EROSION BARRIERS AND SEDIMENT FILTER FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM WEEKLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.



NOTE: PIPE DIAMETER = D

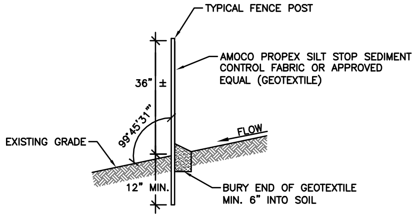
NOTE:
IF PUMPING VOLUME EXCEEDS BASIN CAPACITY, BASIN MAY BE USED IN TANDEM OR TIERS.

DEWATERING BASIN
N.T.S.

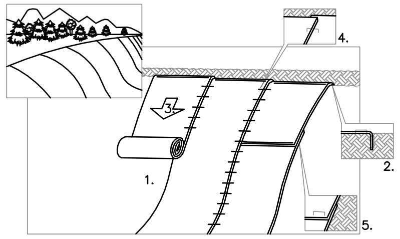


INSTALLATION NOTES:
1. EXCAVATE A SHALLOW (3 TO 4 INCHES DEEP) TRENCH ALONG THE TOE OF THE STREAM BANK.
2. PLACE LOG IN THE TRENCH SO THAT THE BOTTOM AND BACK ARE INTACT WITH THE STREAM SUBSTRATE AND THE STREAMBANK.
3. DRIVE STAKES DOWN ALONG THE SIDES OF THE LOG.
4. WEAVE COIR OR NYLON TWINE BETWEEN AND AROUND THE STAKES.
5. DRIVE STAKES IN FIRMLY, SECURING THE COCONUT FIBER LOG TO THE STREAMBED.
6. STABILIZE STREAMBANK ABOVE LOG USING BANK STABILIZATION TECHNIQUE AS SPECIFIED ON PLANS.

COIR (COCONUT FIBER) LOG INSTALLATION
N.T.S.


TYPICAL FENCE POST
AMOCO PROPEX SILT STOP SEDIMENT CONTROL FABRIC OR APPROVED EQUAL (GEOTEXTILE)
36" ±
99°45'31"
FLOW
EXISTING GRADE
12" MIN.
BURY END OF GEOTEXTILE MIN. 6" INTO SOIL

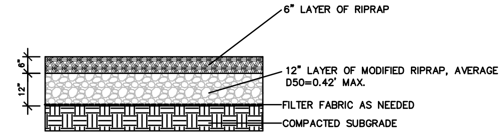
SEDIMENT FILTER FENCE
N.T.S.



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING S150, DO NOT SEED PREPARED AREA. S150 MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.

REFER TO GENERAL STAPLE PATTERN GUIDE IN NORTH AMERICAN GREEN CATALOG FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

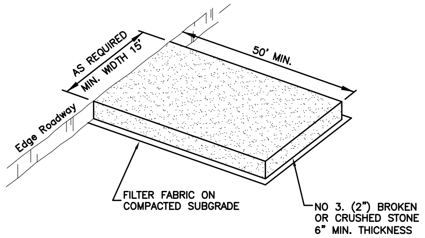
APPLICATION OF EROSION CONTROL BLANKET ON SLOPES
NOT TO SCALE



NOTES:

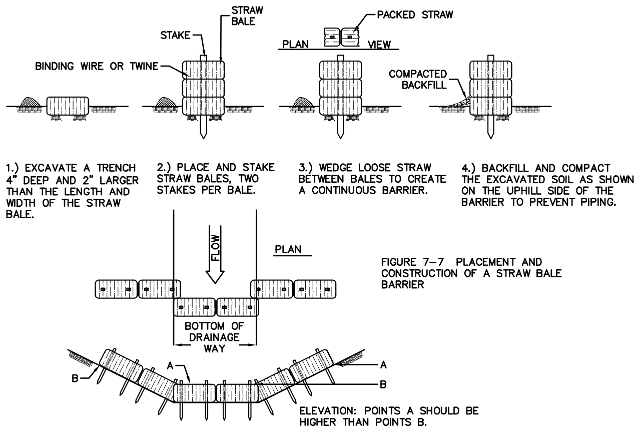
1. 6" TOPSOIL LAYER TO BE PLACED AND SEEDED AFTER CONSTRUCTION IS COMPLETE.

TEMPORARY CONSTRUCTION ACCESS ROAD DETAIL
N.T.S.


AS REQUIRED
MIN. WIDTH 15'
50' MIN.
Edge Roadway
FILTER FABRIC ON COMPACTED SUBGRADE
NO 3. (2") BROKEN OR CRUSHED STONE 6" MIN. THICKNESS

NOTE:
CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING CONSTRUCTION.

CONSTRUCTION ENTRANCE PAD
N.T.S.



1.) EXCAVATE A TRENCH 4" DEEP AND 2" LARGER THAN THE LENGTH AND WIDTH OF THE STRAW BALE.

2.) PLACE AND STAKE STRAW BALES, TWO STAKES PER BALE.

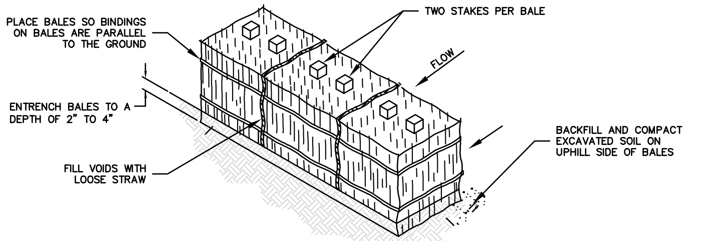
3.) WEDGE LOOSE STRAW BETWEEN BALES TO CREATE A CONTINUOUS BARRIER.

4.) BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

FIGURE 7–7 PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER

ELEVATION: POINTS A SHOULD BE HIGHER THAN POINTS B.

PLACEMENT & CONSTRUCTION OF A STRAW BALE BARRIER
N.T.S.


PLACE BALES SO BINDINGS ON BALES ARE PARALLEL TO THE GROUND
TWO STAKES PER BALE
FLOW
ENTRENCH BALES TO A DEPTH OF 2" TO 4"
FILL VOIDS WITH LOOSE STRAW
BACKFILL AND COMPACT EXCAVATED SOIL ON UPHILL SIDE OF BALES

1. IDEALLY, BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
2. BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
3. WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTLY BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
4. UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, HAY BALES WILL BE REMOVED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.

HAYBALE BARRIER PROTECTION
N.T.S.

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03/02/2012
04/18/2012

SEDIMENT AND EROSION CONTROL DETAILS
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

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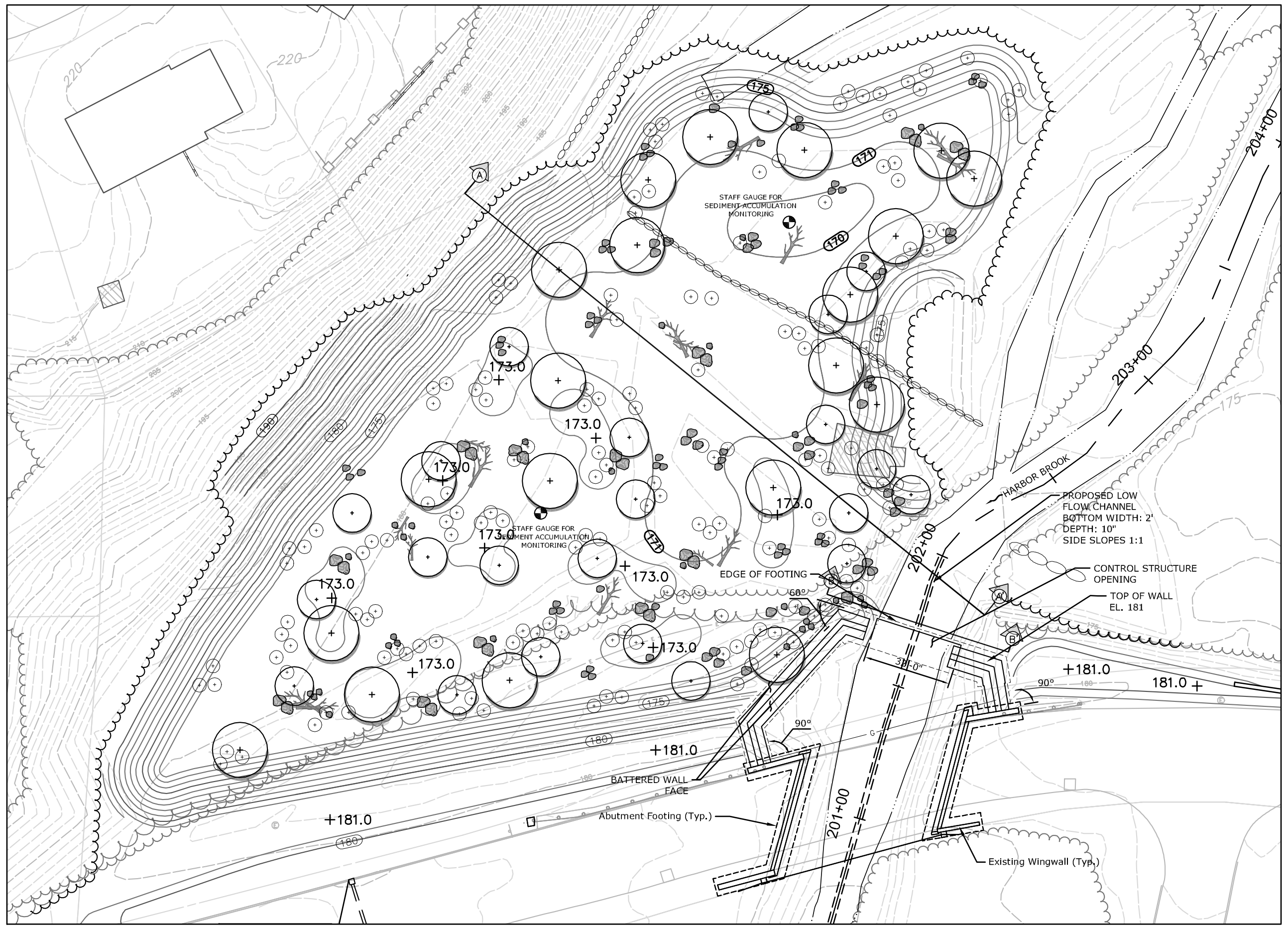
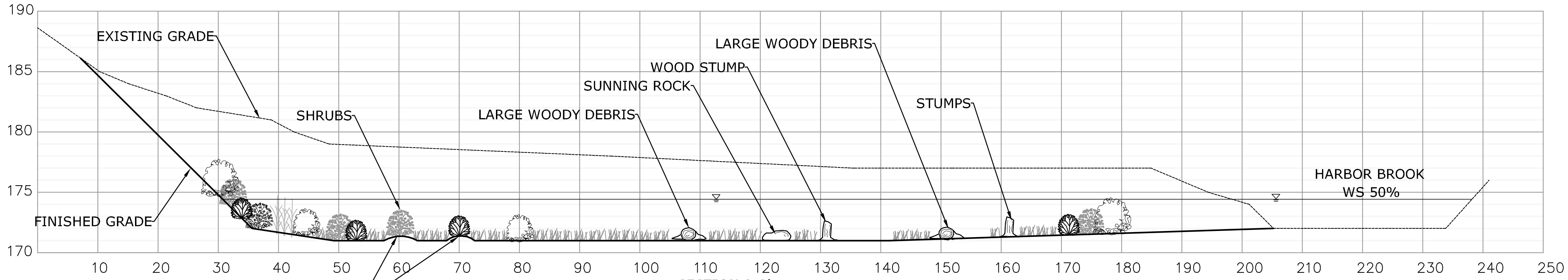
SCALE --
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 61 OF 65


220
STAFF GAUGE FOR SEDIMENT ACCUMULATION MONITORING
175
171
170
173.0
HARBOR BROOK
PROPOSED LOW FLOW CHANNEL BOTTOM WIDTH: 2' DEPTH: 10" SIDE SLOPES 1:1
CONTROL STRUCTURE OPENING
TOP OF WALL EL. 181
EDGE OF FOOTING
60°
90°
30'-0"
+181.0
181.0 +
180
BATTERED WALL FACE
Abutment Footing (Typ.)
Existing Wingwall (Typ.)
201+00
202+00
203+00
204+00
A
A'
B
B'

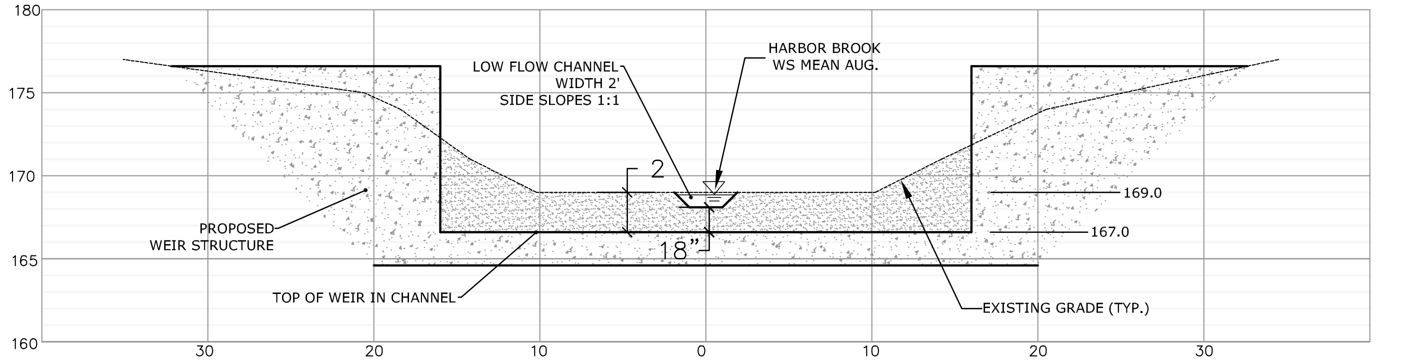
PLAN VIEW

SCALE: 1"=30'


190
185
180
175
170
EXISTING GRADE
FINISHED GRADE
SHRUBS
LARGE WOODY DEBRIS
SUNNING ROCK
WOOD STUMP
LARGE WOODY DEBRIS
STUMPS
HARBOR BROOK WS 50%
HUMMOCKS
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250

SECTION A-A'

SCALE: 1"=10' HORIZONTAL
1"=5' VERTICAL


180
175
170
165
160
LOW FLOW CHANNEL WIDTH 2' SIDE SLOPES 1:1
HARBOR BROOK WS MEAN AUG.
2
18"
169.0
167.0
PROPOSED WEIR STRUCTURE
TOP OF WEIR IN CHANNEL
EXISTING GRADE (TYP.)
30
20
10
0
10
20
30

SECTION B-B': LOW FLOW CHANNEL

SCALE: 1"=5'

N
W
E
S
0
20'
40'

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FALCON PARK CROSS SECTION AND LOW FLOW CHANNEL

HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

HANOVER POND TO BALDWINS POND
MERIDEN, CONNECTICUT

FOR PERMITTING ONLY. NOT FOR CONSTRUCTION.

MJS	BAM	JGM
DESIGNED	DRAWN	CHECKED

SCALE **AS NOTED**

DATE **FEB 2011**

PROJECT NO. **1261-14-20**

SHEET NO. 62 OF 65

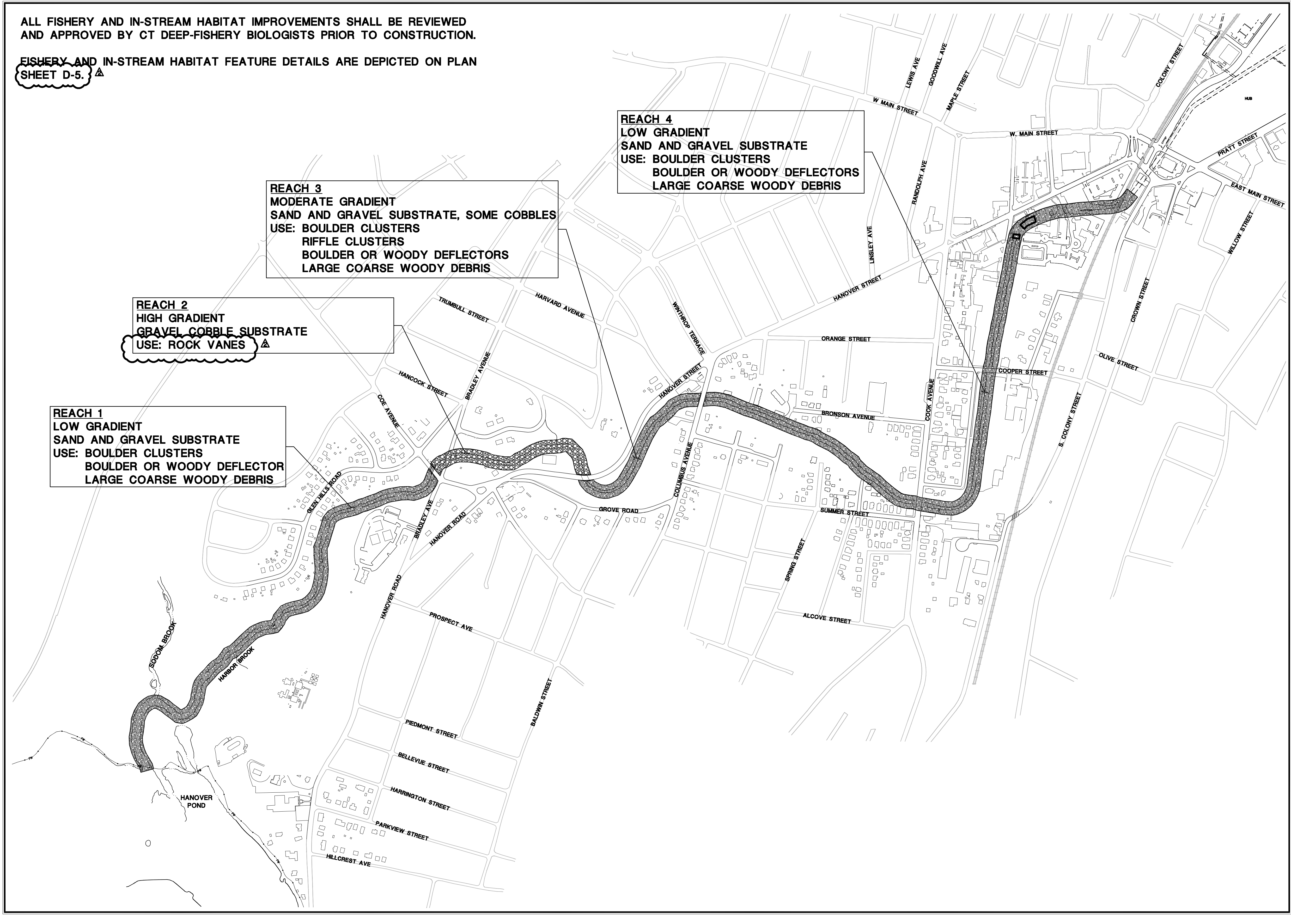
D-7

SHEET NO.

Drawing: H:\1261-14\DWG\CURRENT\HB-SUBSTRATESECTIONS.DWG Layout Tab:H-1
Plotted by: BECKYM On this date: Wed, 2012 April 18 - 10:39am

ALL FISHERY AND IN-STREAM HABITAT IMPROVEMENTS SHALL BE REVIEWED AND APPROVED BY CT DEEP-FISHERY BIOLOGISTS PRIOR TO CONSTRUCTION.

FISHERY AND IN-STREAM HABITAT FEATURE DETAILS ARE DEPICTED ON PLAN SHEET D-5. △2



W MAIN STREET
LEWIS AVE
GOODWILL AVE
MAPLE STREET
COLONY STREET
HUB
W. MAIN STREET
PRATT STREET
EAST MAIN STREET
WILLOW STREET
RANDOLPH AVE
LINSLEY AVE
HANOVER STREET
CROWN STREET
TRUMBULL STREET
HARVARD AVENUE
WINTHROP TERRACE
ORANGE STREET
COOPER STREET
OLIVE STREET
HANCOCK STREET
BRADLEY AVENUE
HANOVER STREET
COE AVENUE
BRONSON AVENUE
COOK AVENUE
S. COLONY STREET
COLUMBUS AVENUE
GLEN HILLS ROAD
BRADLEY AVE
HANOVER ROAD
GROVE ROAD
SUMMER STREET
SPRING STREET
HANOVER ROAD
PROSPECT AVE
ALCOVE STREET
SODOM BROOK
HARBOR BROOK
BALDWIN STREET
PIEDMONT STREET
BELLEVUE STREET
HARRINGTON STREET
PARKVIEW STREET
HILLCREST AVE
HANOVER POND
N
W
E
S
0
150'
300'

REACH 1
LOW GRADIENT
SAND AND GRAVEL SUBSTRATE
USE: BOULDER CLUSTERS
BOULDER OR WOODY DEFLECTOR
LARGE COARSE WOODY DEBRIS

REACH 2
HIGH GRADIENT
GRAVEL COBBLE SUBSTRATE
USE: ROCK VANES △2

REACH 3
MODERATE GRADIENT
SAND AND GRAVEL SUBSTRATE, SOME COBBLES
USE: BOULDER CLUSTERS
RIFFLE CLUSTERS
BOULDER OR WOODY DEFLECTORS
LARGE COARSE WOODY DEBRIS

REACH 4
LOW GRADIENT
SAND AND GRAVEL SUBSTRATE
USE: BOULDER CLUSTERS
BOULDER OR WOODY DEFLECTORS
LARGE COARSE WOODY DEBRIS

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REVISIONS
△1 03/02/2012
△2 04/18/2012

FISHERY AND IN-STREAM FEATURE RESTORATION PLAN
HARBOR BROOK FLOOD CONTROL & LINEAR TRAIL PROJECT

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NEB	BAM	JGM
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SCALE 1"=300'
DATE FEB 2011
PROJECT NO. 1261-14-20
SHEET NO. 63 OF 65

H-1
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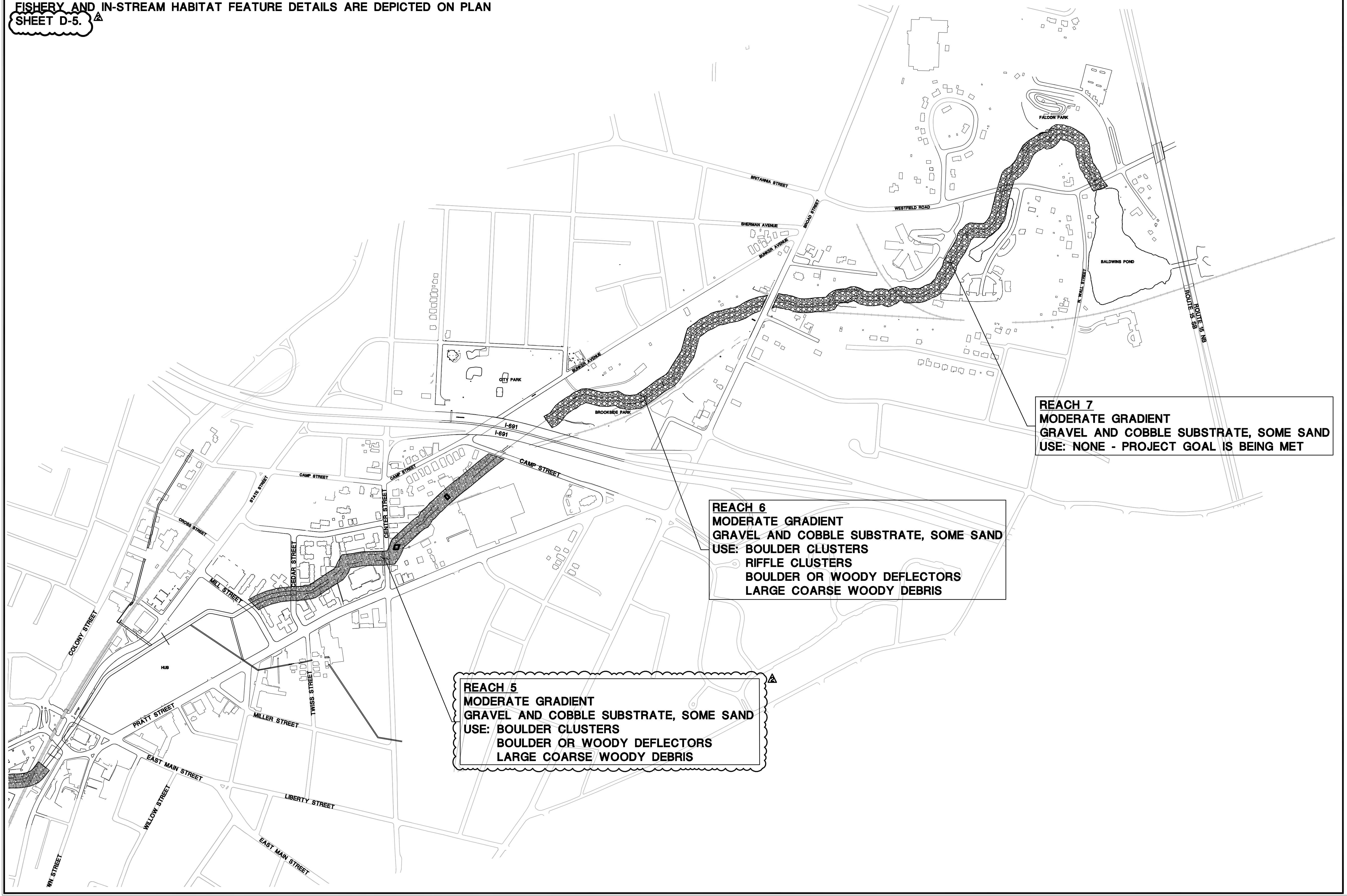
BRITANNIA STREET
WESTFIELD ROAD
SHERMAN AVENUE
BUNKER AVENUE
BROAD STREET
FALCON PARK
BALDWINS POND
N. WALL STREET
ROUTE 15 NB
ROUTE 15 SB
CITY PARK
BUNKER AVENUE
BROOKSIDE PARK
I-691
I-691
CAMP STREET
CAMP STREET
CAMP STREET
STATE STREET
CROSS STREET
CEDAR STREET
CENTER STREET
MILL STREET
COLONY STREET
HUB
TWISS STREET
MILLER STREET
PRATT STREET
EAST MAIN STREET
LIBERTY STREET
WILLOW STREET
EAST MAIN STREET
WN STREET

REACH 7
MODERATE GRADIENT
GRAVEL AND COBBLE SUBSTRATE, SOME SAND
USE: NONE - PROJECT GOAL IS BEING MET

REACH 6
MODERATE GRADIENT
GRAVEL AND COBBLE SUBSTRATE, SOME SAND
USE: BOULDER CLUSTERS
RIFFLE CLUSTERS
BOULDER OR WOODY DEFLECTORS
LARGE COARSE WOODY DEBRIS

REACH 5 2
MODERATE GRADIENT
GRAVEL AND COBBLE SUBSTRATE, SOME SAND
USE: BOULDER CLUSTERS
BOULDER OR WOODY DEFLECTORS
LARGE COARSE WOODY DEBRIS

N
W E
S
0 150' 300'

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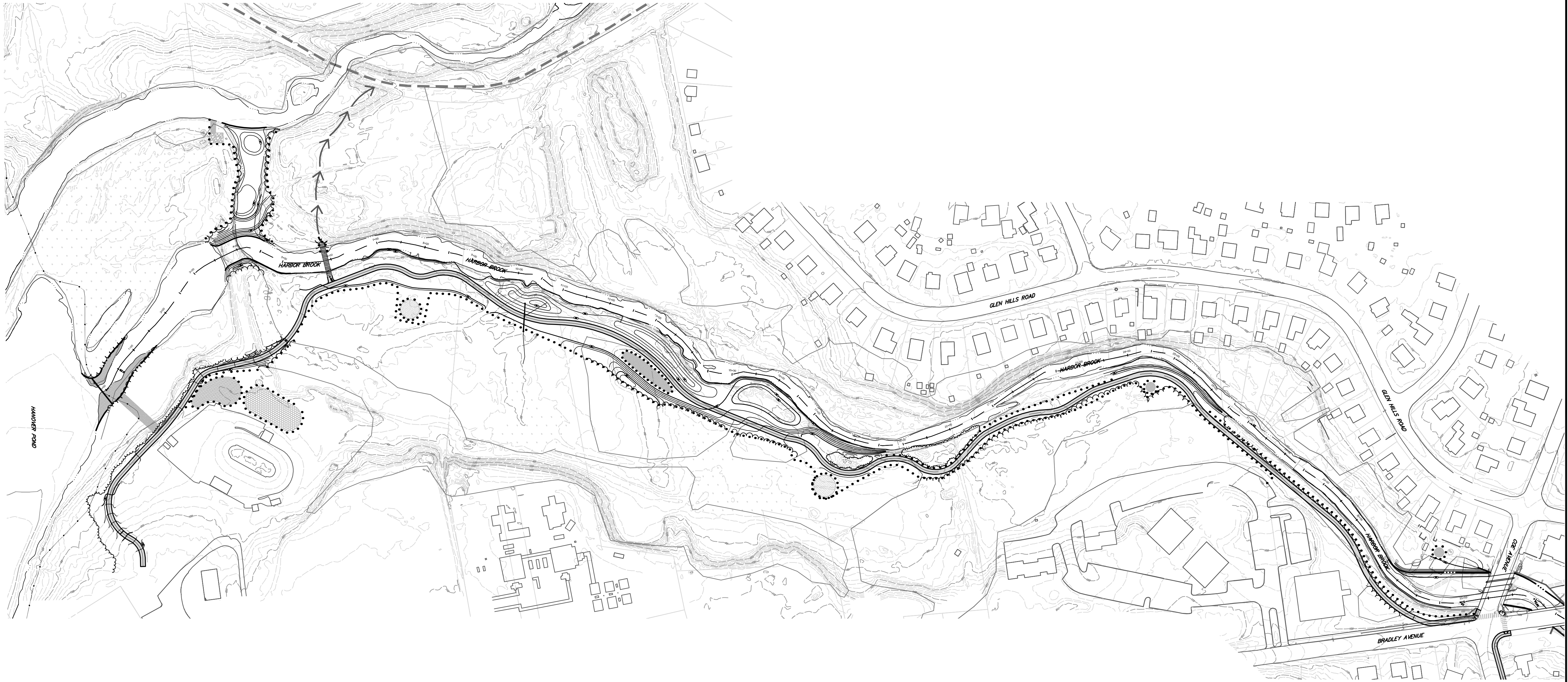

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EDGE OF WATER	
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
	TREE LINE	
	LINEAR TRAIL	
	SEDIMENT FILTER FENCE	
	COIR LOGS	
	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE	STK

TURTLE MANAGEMENT PLAN

IN ORDER TO ALLOW FOR THE HARBOR BROOK FLOOD CONTROL PROJECT AND LINEAR TRAIL CONSTRUCTION TO OCCUR AND TO PROVIDE MAXIMUM PROTECTION OF THE TURTLES, MMI'S WILDLIFE BIOLOGISTS HAVE DEVELOPED A MANAGEMENT PLAN THAT WILL BE UTILIZED BY THE CITY TO HELP PROTECT THE BOX TURTLE DURING THE COURSE OF THE PROJECT. THE TURTLE MANAGEMENT PLAN HAS BEEN DESIGNED TO BE CONSISTENT WITH THE CTDEEP'S TYPICAL TURTLE MANAGEMENT RECOMMENDATIONS FOR SAID SPECIES. THE TURTLE MANAGEMENT PLAN INCLUDES THE FOLLOWING:

→ CONDUCT A SWEEP OF THE PROJECT AREA BY A QUALIFIED WILDLIFE BIOLOGIST PRIOR TO INSTALLATION OF SILT FENCE AND/OR SILT SOXX.

→ INSTALL SILT FENCING AND/OR SILT SOXX AROUND THE WORK AREA PRIOR TO THE START OF ANY CONSTRUCTION.

→ CONDUCT A SECOND SWEEP OF THE PROJECT AREA BY A QUALIFIED WILDLIFE BIOLOGIST PRIOR TO CONSTRUCTION.

→ AREAS THAT ARE SELECTED FOR SOIL STOCKPILES AND OTHER CONSTRUCTION MATERIAL PILES SHALL BE SURROUNDED BY SILT FENCE TO PREVENT TURTLES FROM USING SAID PILES FOR EGG LAYING.

→ THE CONTRACTOR SHALL BE APPRISED OF THE POTENTIAL PRESENCE OF BOX TURTLES WITHIN THE PROJECT SITE AND BE GIVEN A DESCRIPTION OF THE TURTLE FOR PROPER IDENTIFICATION PURPOSES.

→ THE COIR LOGS/SILT SOXX PROPOSED ALONG THE BANKS OF HARBOR BROOK SHALL BE PERIODICALLY MONITORED DURING CONSTRUCTION TO VERIFY THAT BOX TURTLES HAVE NOT BECOME TANGLED WITHIN THE LOGS/SOXX. ANY TURTLE CAUGHT IN THE LOGS/SOXX SHALL BE CAREFULLY UNTANGLED, MOVED, UNHARMED TO AN AREA IMMEDIATELY OUTSIDE OF THE PROJECT AREA AND IN THE SAME DIRECTION IT WAS WALKING.

→ ANY BOX TURTLES DISCOVERED INSIDE THE PROJECT AREA SHALL BE CAREFULLY MOVED, UNHARMED, TO AN AREA IMMEDIATELY OUTSIDE OF THE SILT FENCE AND IN THE SAME DIRECTION IT WAS WALKING.

→ NO MACHINERY OR HEAVY VEHICLES SHALL BE PARKED IN BOX TURTLE HABITAT. PARKING FOR CONSTRUCTION EQUIPMENT SHALL BE CONFINED TO THE SILT FENCE LIMITS.

→ WORK CONDUCTED DURING THE EARLY MORNING AND LATE EVENING HOURS SHOULD OCCUR WITH SPECIAL CARE NOT TO HARM BASKING OR FORAGING INDIVIDUALS.

→ AT THE END OF CONSTRUCTION ALL SILT FENCE SHALL BE REMOVED.

→ BOX TURTLE EDUCATIONAL SIGNAGE SHALL BE INSTALLED ALONG THE TRAIL AT SELECT LOCATIONS TO EDUCATE AND INCREASE AWARENESS FOR THE PROTECTION OF THE BOX TURTLE AND ITS HABITAT.

THE CITY WILL BE RESPONSIBLE FOR IMPLEMENTING AND ADMINISTERING THE ABOVE PLAN THROUGHOUT ALL PHASES OF THE PROJECT THAT ARE COMPLETED BETWEEN HANOVER POND AND COE AVENUE BRIDGE. THE CITY IS COMMITTED TO PROVIDING EDUCATIONAL SIGNAGE ALONG THIS PROJECT REACH UNDER THE DIRECTION OF PROJECT WILDLIFE BIOLOGISTS AND CTDEEP.

N E S W
0 50' 100'

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