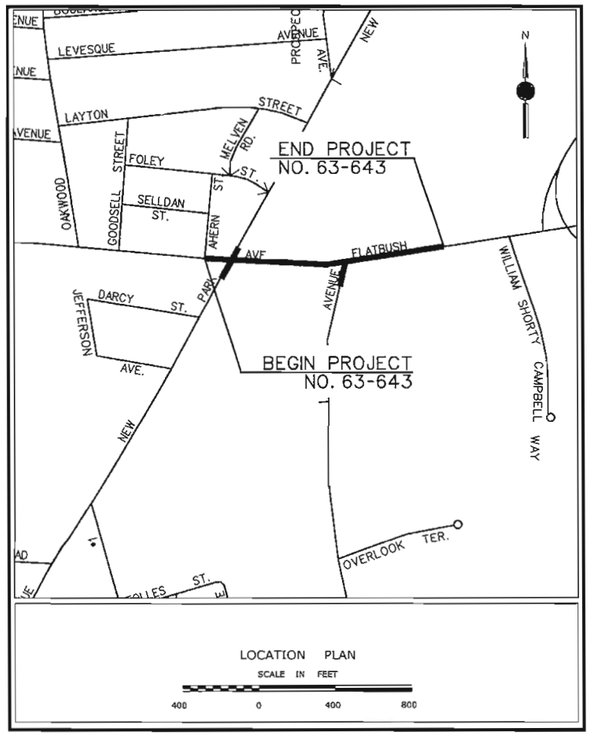


CONNECTICUT DEPARTMENT OF TRANSPORTATION PLAN

FOR

CONSTRUCTION OF
FLATBUSH AVENUE OVER BUSWAY AND AMTRAK

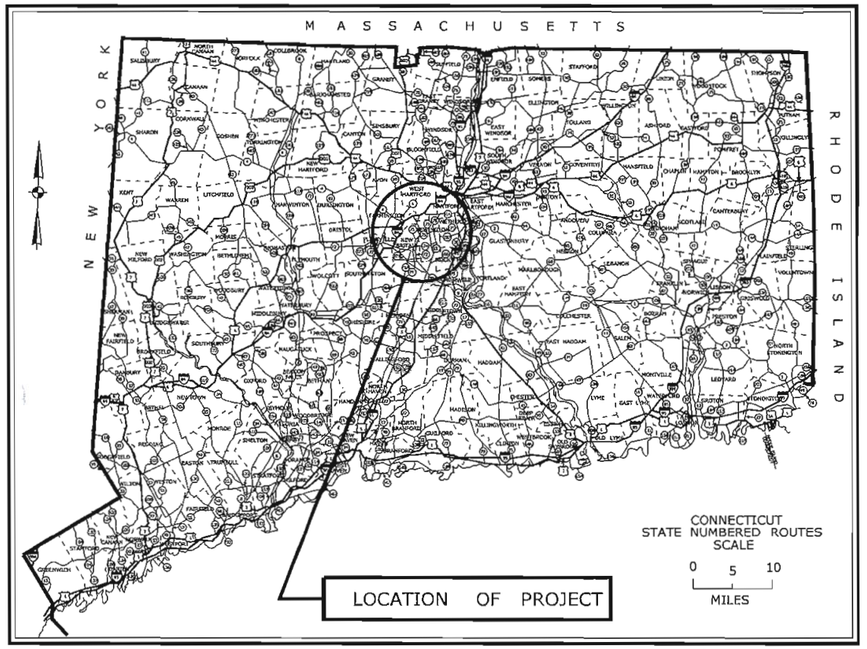
IN THE TOWN(S) OF
WEST HARTFORD AND HARTFORD

RECEIVED
AUG 12 2010
INLAND WATER RESOURCES DIVISION

FROM STA. 11+00 TO STA. 25+40 LENGTH 1440 ft.

PERMIT SUBMISSION PLANS - NOT FOR CONSTRUCTION
JULY 29, 2010

DESIGN SCALES
PLAN 1 in. = 40 ft.
PROFILE HOR. 1 in. = 40 ft. VERT. 1 in. = 4 ft.
CROSS SECTIONS 1 in. = 5 ft.
OTHER SCALES AS NOTED



SPECIFICATIONS, FORM 816 GOVERN INCLUDING SUPPLEMENT THERETO DATED JANUARY 2009
ALL ELEVATIONS ON THIS PROJECT BASED ON NGVD OF 1929
COORDINATES BASED ON CONNECTICUT COORDINATE SYSTEM NAD 83

FEDERAL AID PROJECT NO. - TO BE MAINTAINED BY THE STATE STATE PROJECT NO. 63-643

LIST OF DRAWING REVISIONS

SHEET NO.	DESCRIPTION	DATE	BY

STANDARD EXISTNG CONVENTIONS

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

Border VERSION 10/19/07

LIST OF DRAWINGS

DWG. NO.	TITLE	SHEET NO.
	TITLE SHEET	1
	DRAINAGE PLANS	2-4
	SEDIMENTATION & EROSION CONTROL PLANS	5-6

HALF SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION BIDDING AND OTHER INFORMATION AND DOCUMENTS WHICH ARE OBTAINED THROUGH THE INTERNET WORLD WIDE WEB SITES OR OTHER SOURCES ARE NOT TO BE CONSTRUED TO BE OFFICIAL INFORMATION FOR THE PURPOSES OF BIDDING OR CONDUCTING OTHER BUSINESS WITH THE DEPARTMENT.

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

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

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

SUBMITTED - 2010
TRANSPORTATION PRINCIPAL ENGINEER

APPROVAL RECOMMENDED - 2010
MANAGER OF STATE DESIGN - JAMES H. NORMAN

APPROVED - 2010
TRANSPORTATION ENGINEERING ADMINISTRATOR - MICHAEL W. LONERGAN

DESIGNED BY:
URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

STATE OF CONNECTICUT
DONALD G. SACCHI
No. 16588
LICENSED
PROFESSIONAL ENGINEER

PERMIT SUBMISSION PLANS

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CT	WEST HARTFORD & HARTFORD	-	63-643	2010	-	1	6

TYPE "C" CB
STA. 11+50
TG= --
INV IN=73.50
INV OUT=73.21±

REMOVE EXISTING
CATCH BASIN

TYPE "C" CB
STA. 11+50
TG= --
INV OUT=73.70

AHERN STREET

N/F
WILLIAM H. BARRY, TRUSTEE
ET AL

N/F
FOUR HUNDRED FIFTY THREE
NEW PARK AVENUE ASSOCIATES, LLC

N/F
GABRIEL R. GRENIER

39'-12" CLASS V RCP

REMOVE EXISTING
PIPE

REMOVE
EXISTING
CATCH
BASIN

8'-15" RCP

RESET EXISTING
CATCH BASIN

TYPE "C" CB
STA. 13+65
TG=--
INV. IN=71.17
INV OUT=71.17

RESET EXISTING
CATCH BASIN

RESET EXISTING
CATCH BASIN

RESET
EXISTING
MANHOLE

TYPE "C" CB
STA. 104+70
TG= --
INV OUT=72.52

73'-12" RCP

TYPE "C" CB
STA. 13+70
TG= --
INV IN=71.79
INV OUT=71.79

62'-12" RCP

50'-12" RCP

MANHOLE
STA. 13+65
TG= --
INV IN (N)=71.09
INV IN (S)=71.09
INV OUT=71.09

TYPE "C" CB
STA. 106+50
TG= --
INV=OUT=71.59

RESET EXISTING
CATCH BASIN

TYPE "C-L" CB
STA. 16+13
TG= SET AT EXISTING GRADE
INV IN (N)=66.60
INV IN (W)=63.32
INV OUT=63.29

TYPE "C-L" CB
STA. 16+13
TG= SET AT EXISTING GRADE
INV IN =67.68±
INV OUT=67.00

EXISTING CB TO REMAIN
EXISTING TG=70.76
EXISTING INV OUT=67.96

222'-15" RCP

EXISTING 15" RCP PIPE TO REMAIN

40'-15" RCP

SPN: 155-H025
DRAINAGE SYSTEM
(TYP.)

TYPE "C" CB
OVER 10' DEEP
STA. 16+19
(BUSWAY STA. 351+98)
TG=69.38
INV. IN (E)=65.87
INV. IN (W)=63.25
INV. IN (S)=61.24
INV OUT=61.24

4'-24" RCP

CONNECT TO SPN. 155-H025
DRAINAGE SYSTEM

REMOVE EXISTING
CATCH BASIN

REMOVE EXISTING
PIPE

REBUILD MANHOLE
OVER 10' DEEP
STA. 16+26
TG=69.45
INV IN=61.20
INV OUT=61.20 (EXISTING)

563'-30" RCP

TYPE "C-L" CB
OVER 10' DEEP
STA. 17+90
TG=SET AT EXISTING GRADE
INV IN=60.43
INV OUT=56.67

222'-30" RCP

MAINTAIN EXISTING
8" CMP INV IN TO
CB AT STA. 16+19

3'-30" RCP

EXISTING 30" RCP
TO REMAIN

MANHOLE
OVER 10' DEEP
STA. 17+29
TG=SET AT EXISTING GRADE
INV IN=60.75
INV OUT=60.75

REMOVE EXISTING CATCH BASIN

REMOVE EXISTING PIPE

REMOVE EXISTING MANHOLE

MATCH LINE
STA. 17+90

SEE SHEET NO. 2

NOTES:

1) ALL RCP DRAINAGE PIPE TO BE CLASS III UNLESS OTHERWISE SPECIFIED.
2) ALL DRAINAGE STRUCTURES LOCATED IN THE CITY OF HARTFORD TO CONFORM TO METROPOLITAN DISTRICT (MDC) STANDARD DETAILS SHOWN ON MDS-15. ALL OTHER DRAINAGE STRUCTURES TO CONFORM TO ConnDOT STANDARD DETAILS.

FINAL DESIGN REVIEW

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

Filename: hw_msh_0155_h030_drg-01.dgn

Plotted: 7/15/2010
Border Version: 5/31/07

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

Date Plotted: 7/15/2010

DESIGNER/DRAFTER: J. Bambara
CHECKED BY: C. Lanphear
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: VN ENGINEERS, INC. / URS CORPORATION AES
APPROVED BY: Robert Gomez, P.E. DATE: -

VN ENGINEERS, INC.

PROJECT TITLE:
FLATBUSH AVENUE OVER
BUSWAY AND AMTRAK

TOWN: WEST HARTFORD/HARTFORD

DRAWING TITLE:
FLATBUSH AVENUE
DRAINAGE PLAN

PROJECT NO. 63-643
DRAWING NO. DRG-01
SHEET NO. 2

SEE SHEET NO. 1

MATCH LINE

STA. 17+90

TYPE "C-L" CB
STA. 51+27
TG= --
INV IN=68.66
INV OUT=68.66

TYPE "C-L" CB
STA. 53+75
TG= SET AT EXISTING GRADE
INV OUT=66.47

MANHOLE
OVER 10' DEEP
STA. 53+60
TG= 79.02
INV IN=66.17
INV OUT=66.17

184'-18" RCP

30'-18" RCP

40'-18" RCP

63'-12" RCP

TYPE "C" CB
STA. 18+70
TG= --
INV IN=81.37
INV OUT=81.37

REMOVE EXISTING CATCH BASIN

TYPE "C" CB
STA. 51+27
TG= --
INV OUT=69.00

34'-18" RCP

TYPE "C" CB
OVER 10' DEEP
STA. 53+15
TG= --
INV IN (S)=66.82
INV IN (N)=65.77
INV OUT=65.77

MANHOLE
STA. 53+15
TG= SET AT EXISTING GRADE
INV IN=65.24
INV OUT=65.24

TYPE "C" CB
OVER 10' DEEP
STA. 53+15
TG= --
INV IN=65.44
INV OUT=65.44

MANHOLE
STA. 54+00
TG= SET AT EXISTING GRADE
INV IN=64.40
INV OUT=62.91

97'-18" RCP

MANHOLE
STA. 19+72
TG= SET AT EXISTING GRADE
INV IN=61.94
INV OUT=60.27

84'-18" RCP

33'-18" RCP

20'-18" RCP

REMOVE EXISTING CATCH BASIN
REMOVE EXISTING MANHOLE
REMOVE EXISTING PIPE

210'-18" RCP

MANHOLE
STA. 21+87
TG= SET AT EXISTING GRADE
INV IN=56.07
INV OUT=55.81

TYPE "C" CB
OVER 10' DEEP
STA. 22+00
TG= --
INV IN (W)=56.62
INV IN (S)=55.45
INV IN (N)=53.29
INV OUT=53.29

REBUILD EXISTING MANHOLE
OVER 10' DEEP
STA. 22+68
TG= --
INV IN (W)=52.03
INV IN (S)=EXISTING UKNOWN
INV OUT=49.06 (EXISTING)

REMOVE EXISTING PIPE
REMOVE EXISTING CATCH BASIN

18'-18" RCP

CLEAN EXISTING PIPE
REMOVE EXISTING PIPE

REMOVE EXISTING PIPE
REMOVE EXISTING CATCH BASIN
REMOVE EXISTING PIPE
RESET & CLEAN EXISTING MANHOLE
CONVERT EXISTING TYPE "C" CB TO TYPE "C-L"

REMOVE EXISTING MANHOLE
REMOVE EXISTING PIPE
REMOVE EXISTING CATCH BASIN
222'-30" RCP
REMOVE EXISTING PIPE
REMOVE EXISTING PIPE
330'-12" RCP
REMOVE EXISTING MH
REMOVE EXISTING MH

TYPE "P-R-W" CB
STA. 18+70
TG= --
INV OUT=82.00

TYPE "C-L" CB
OVER 10' DEEP
STA. 20+25
TG=SET AT EXISTING GRADE
INV IN=55.56
INV OUT=55.56

156'-30" RCP

REMOVE EXISTING PIPE

REMOVE EXISTING CATCH BASIN

REMOVE EXISTING CATCH BASIN

REMOVE EXISTING PIPE

TYPE "C-L" CB
STA. 21+85
TG=SET AT EXISTING GRADE
INV IN=54.00
INV OUT=54.00

15'-30" RCP

TYPE "P-R-W" CB
OVER 10' DEEP
STA. 22+00
TG= --
INV IN=53.85
INV OUT=53.85

56'-30" RCP

REMOVE EXISTING CATCH BASIN

63'-30" RCP

RESET & CLEAN EXISTING MANHOLE

CONVERT EXISTING TYPE "C" CB TO TYPE "C-L"

CLEAN EXISTING PIPE

RESET & CLEAN EXISTING MANHOLE

CLEAN EXISTING PIPE

CLEAN EXISTING PIPE

MATCH LINE STA. 25+12
SEE SHEET NO. 3

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Filename: hw_msh_0155_h030_drg-02.dgn

Plotted: 7/15/2010
Border Version: 5/31/07

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

Date Plotted: 7/15/2010

DESIGNER/DRAFTER: J. Bambara
CHECKED BY: C. Lanphear
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: VN ENGINEERS, INC. / URS CORPORATION AES
APPROVED BY: Robert Gomez, P.E. DATE: -

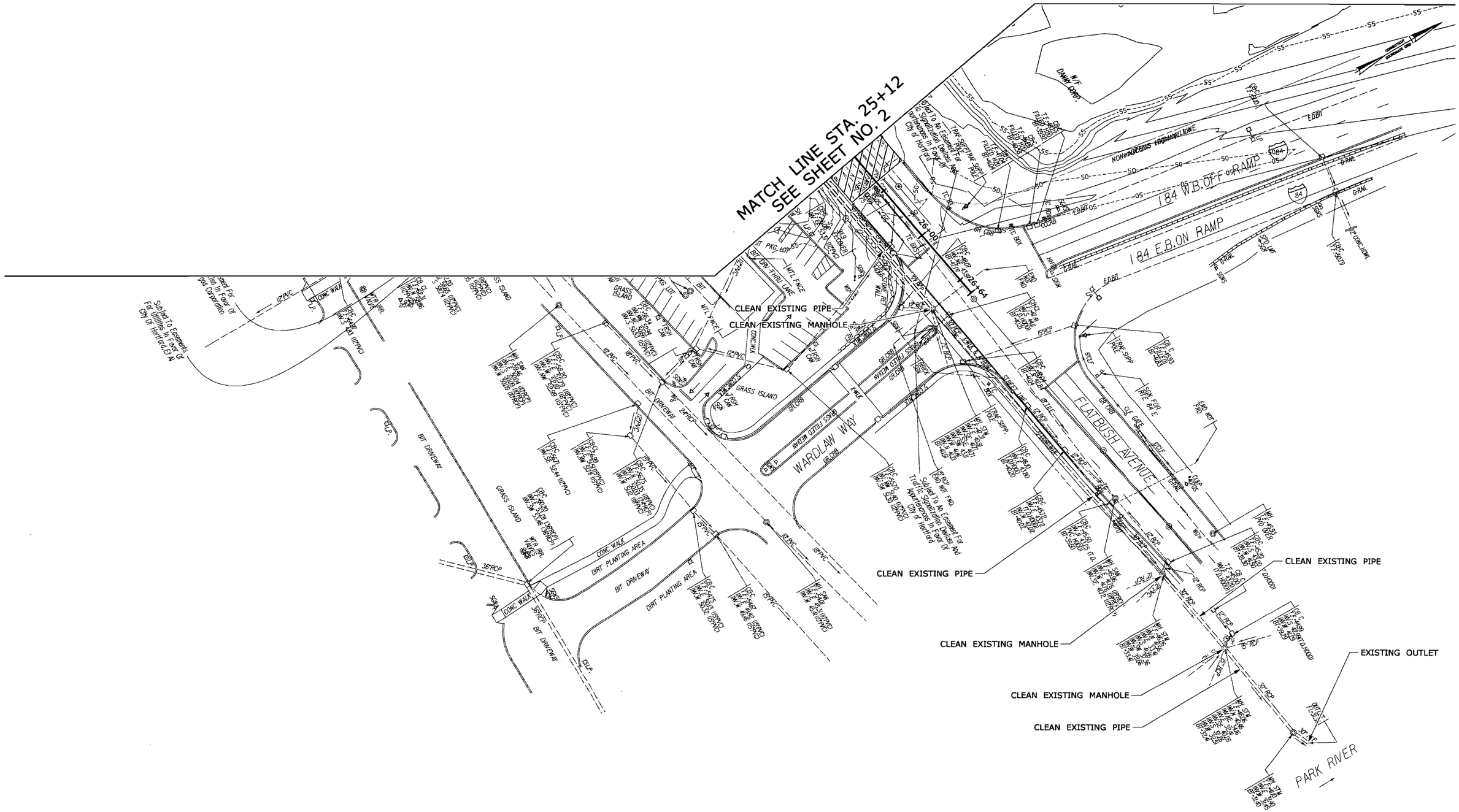
VN ENGINEERS, INC.

PROJECT TITLE: FLATBUSH AVENUE OVER BUSWAY AND AMTRAK

TOWN: WEST HARTFORD/HARTFORD

DRAWING TITLE: FLATBUSH AVENUE DRAINAGE PLAN

PROJECT NO. 63-643
DRAWING NO. DRG-02
SHEET NO. 3



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Filename: hw_rmsh_0155_h030_drg-03.dgn

Plotted: 7/15/2010
Border Version: 5/31/07
Date Plotted: 7/15/2010

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DESIGNER/DRAFTER: J. Bambara
CHECKED BY: C. Lanphear
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: VN ENGINEERS, INC. / URS CORPORATION AES
APPROVED BY: Robert Gomez, P.E. DATE: -

VN ENGINEERS, INC.

PROJECT TITLE: FLATBUSH AVENUE OVER BUSWAY AND AMTRAK

TOWN: WEST HARTFORD/HARTFORD

DRAWING TITLE: FLATBUSH AVENUE DRAINAGE PLAN

PROJECT NO. 63-643
DRAWING NO. DRG-03
SHEET NO. 4

LIMIT OF CONSTRUCTION
STA. 100+93.10
MATCH EXISTING
CUT BIT. CONC. PAVEMENT

LIMIT OF CONSTRUCTION
STA. 11+00
MATCH EXISTING
CUT BIT. CONC. PAVEMENT

LIMIT OF CONSTRUCTION
STA. 109+40.00
MATCH EXISTING
CUT BIT. CONC. PAVEMENT

NEW PARK AVENUE BASELINE

FLATBUSH AVENUE BASELINE

AHERN STREET

DARCY STREET

FOLLEY STREET

NEW PARK AVENUE

FLATBUSH AVENUE

APPROX. CUT SLOPE LIMIT

APPROX. FILL SLOPE LIMIT

LIMIT OF CONSTRUCTION
MATCH FLATBUSH AVENUE STATION

ANTI-TRACKING PAD

SEDIMENTATION CONTROL SYSTEM (TYP.)

CONSTRUCTION STAGING AREA

APPROXIMATE FLATBUSH AVENUE STATION LOCATION (BY OTHERS)

NEW BRITAIN-HARTFORD BUSWAY (FOR INFORMATION ONLY)

LOCATION OF PROPOSED FLATBUSH AVENUE STATION (FOR INFORMATION ONLY)

CONSTRUCTION STAGING AREA

INLET PROTECTION (TYP.)

WEST HARTFORD TOWN LINE

HARTFORD TOWN LINE

WEST HARTFORD CITY LINE

HARTFORD CITY LINE

SEE SHEET SED-02

MATCH LINE STA. 18+00

FINAL DESIGN REVIEW

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

Plotted: 7/28/2010

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

DESIGNER/DRAFTER: T. CARTIER
CHECKED BY: R. ALOISE
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: P:\155_H030_FLATBUSH\Highways\MS_Contract_Sheet_Files\hw_msh_0155_h030_sed-01.dgn

SIGNATURE/ BLOCK: URS CORPORATION AES
APPROVED BY: DATE: -

PROJECT TITLE: FLATBUSH AVENUE OVER BUSWAY AND AMTRAK

TOWN: WEST HARTFORD/ HARTFORD

DRAWING TITLE: SEDIMENTATION & EROSION CONTROL PLAN

PROJECT NO. 63-643
DRAWING NO. SED-01
SHEET NO. 5

SEE SHEET SED-01

MATCH LINE

STA. 18+00

LIMIT OF CONSTRUCTION
STA. 50+66.90
MATCH EXISTING
CUT BIT. CONC. PAVEMENT
AND GRANITE STONE CURB

CONSTRUCTION ACCESS

ANTI-TRACKING PAD

APPROX. FILL SLOPE LIMIT (TYP.)

SEDIMENTATION CONTROL SYSTEM (TYP.)

INLET PROTECTION (TYP.)

NEWFIELD AVENUE

NEWFIELD AVENUE BASELINE

FLATBUSH AVENUE

FLATBUSH AVENUE BASELINE

WEST HARTFORD TOWN LINE

HARTFORD TOWN LINE

LIMIT OF CONSTRUCTION
STA. 25+40.00
MATCH EXISTING
CUT BIT. CONC. PAVEMENT
AND GRANITE STONE CURB

FINAL DESIGN REVIEW

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

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

Plotted: 7/28/2010

DESIGNER/DRAFTER: G. MUNDEN
CHECKED BY: R. ALOISE
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: P:\155_H030_FLATBUSH\Highways\MS_Contract_Sheet_Files\hw_msh_0155_h030_sed-02.dgn

SIGNATURE/BLOCK: URS CORPORATION AES
APPROVED BY: DATE: -

PROJECT TITLE: FLATBUSH AVENUE OVER BUSWAY AND AMTRAK

TOWN: WEST HARTFORD/ HARTFORD
DRAWING TITLE: SEDIMENTATION & EROSION CONTROL PLAN

PROJECT NO. 63-643
DRAWING NO. SED-02
SHEET NO. 6