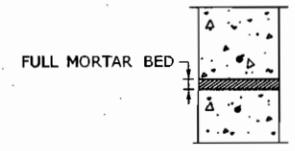


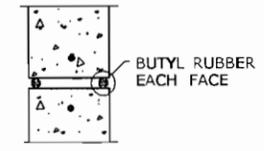
CATCH BASINS 10' (3.048m) DEEP OR LESS
 MINIMUM CIRCUMFERENTIAL STEEL AREA SHALL BE 0.44 SQUARE INCHES PER FOOT (2.84 sq cm per Meters)

CATCH BASINS GREATER THAN 10' (3.048m) AND LESS THAN 20' (6.096m) DEEP (SEE NOTES 6 AND 13)
 MINIMUM CIRCUMFERENTIAL STEEL AREA SHALL BE 0.44 SQUARE INCHES PER FOOT (2.84sq cm per Meter)

PLACE VERTICAL STEEL AS REQ'D TO HOLD CIRCUMFERENTIAL STEEL IN POSITION DURING CASTING (TYP.)

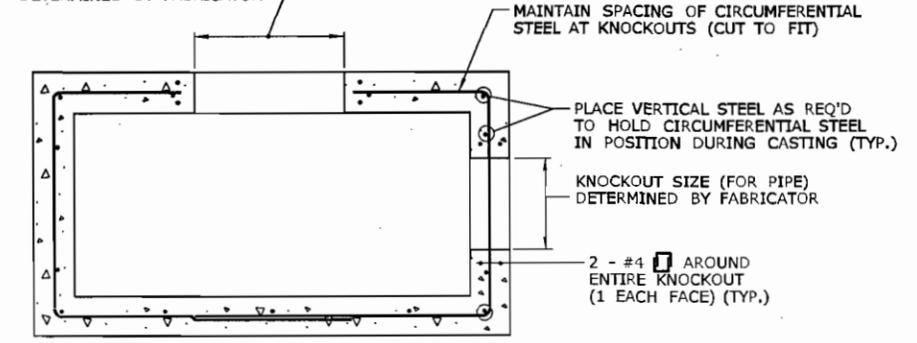


MORTAR JOINT DETAIL

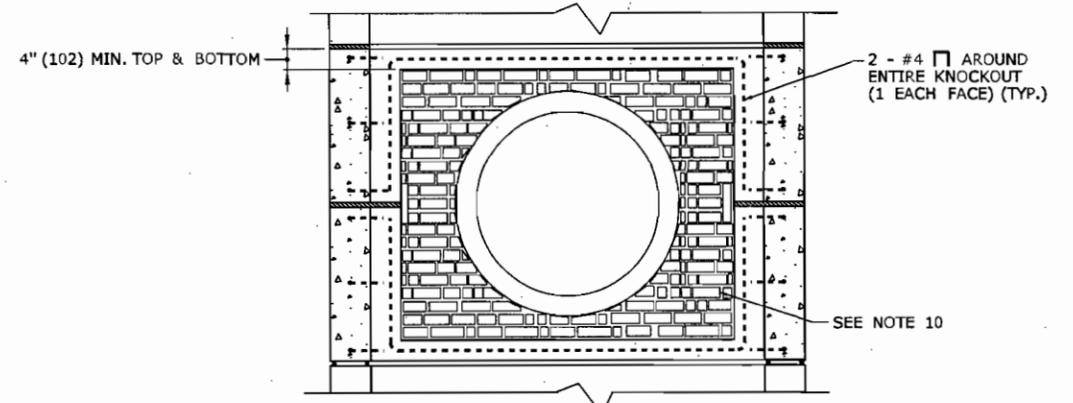


BUTYL RUBBER JOINT DETAIL

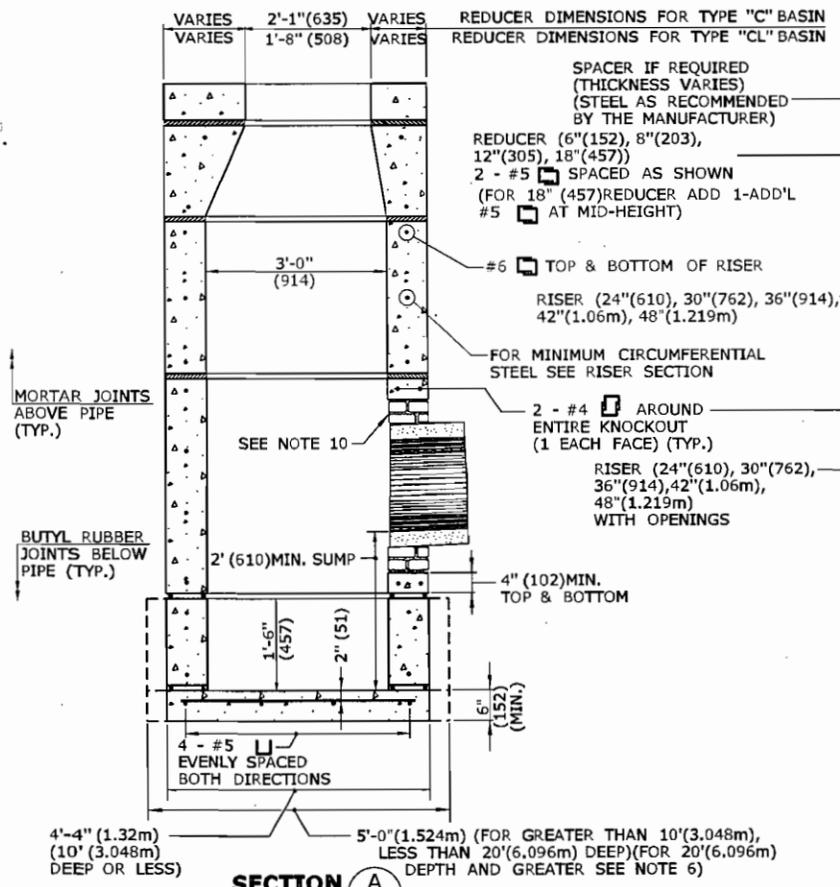
KNOCKOUT SIZE (FOR PIPE) DETERMINED BY FABRICATOR



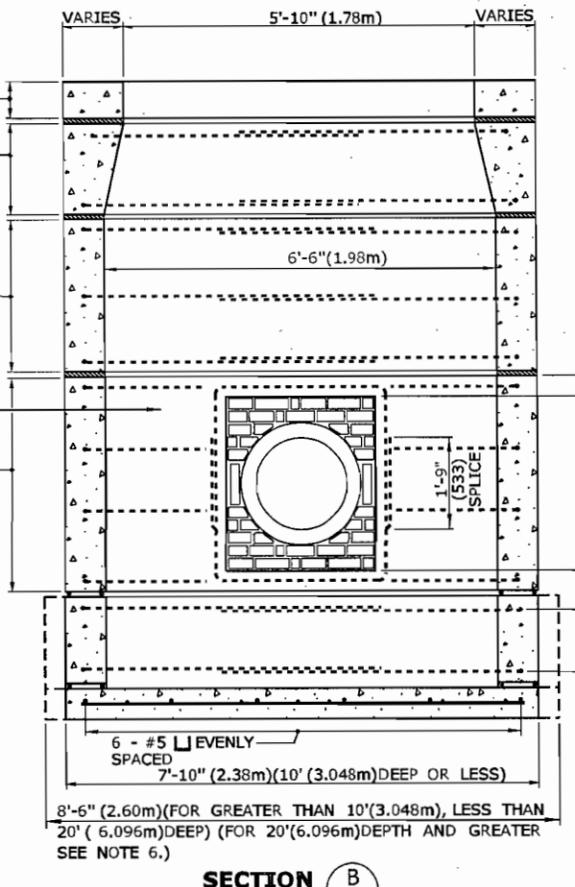
TYPICAL SECTION THRU SINGLE RISER WITH KNOCKOUTS



DOUBLE RISER OPENING (TYP.) PIPES GREATER THAN 24" (610) O.D.



SECTION A



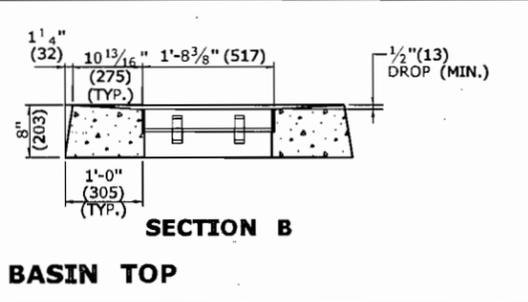
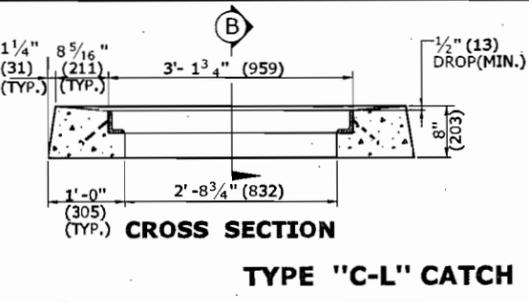
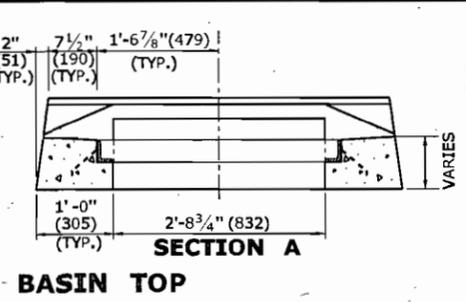
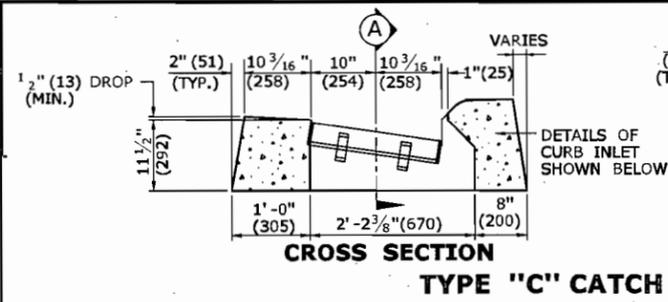
SECTION B

NOTE: REINFORCEMENT IN FAR FACE WALL NOT SHOWN FOR CLARITY

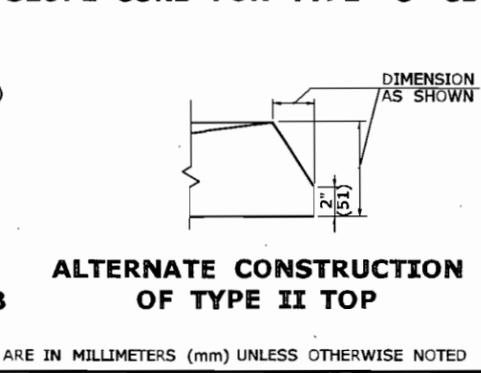
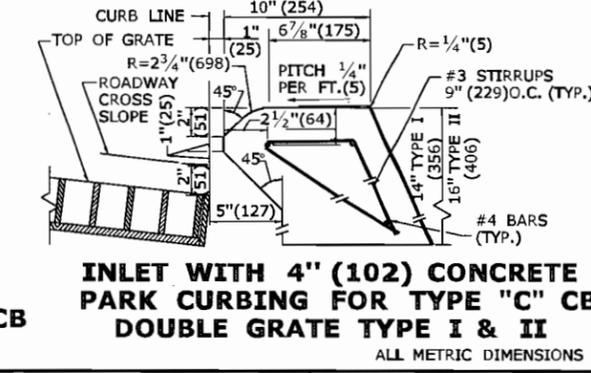
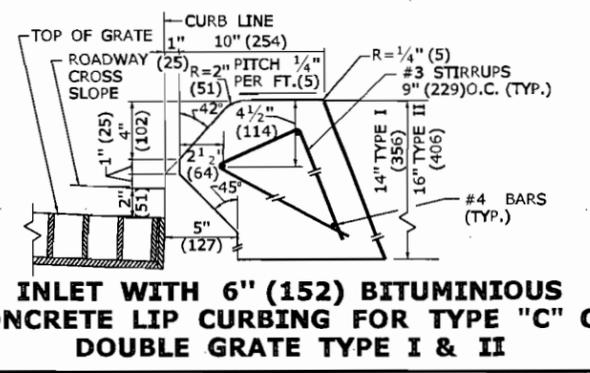
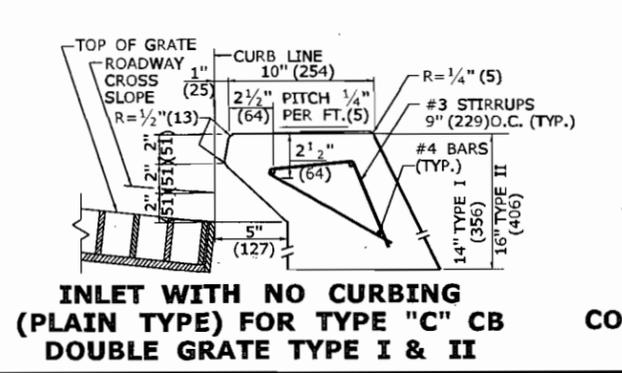
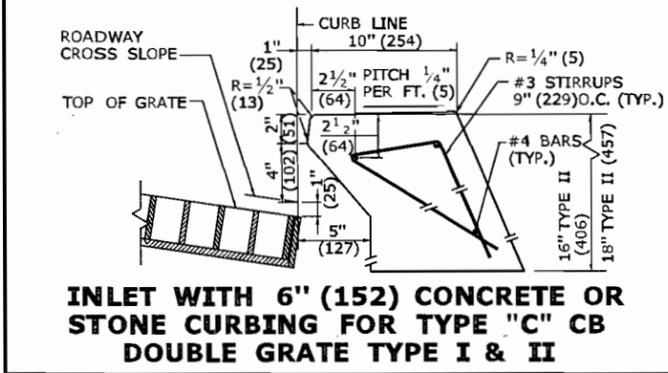
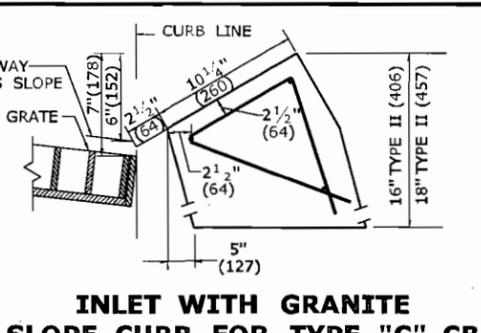
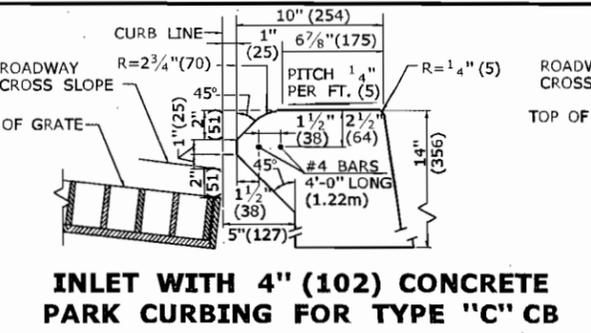
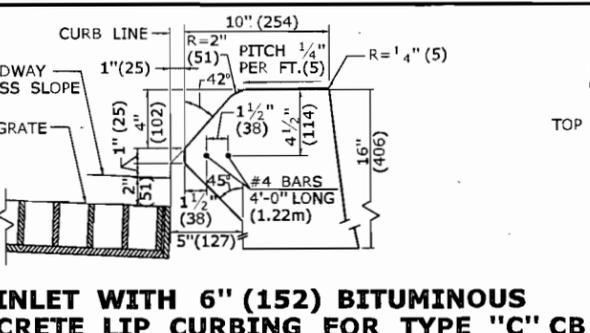
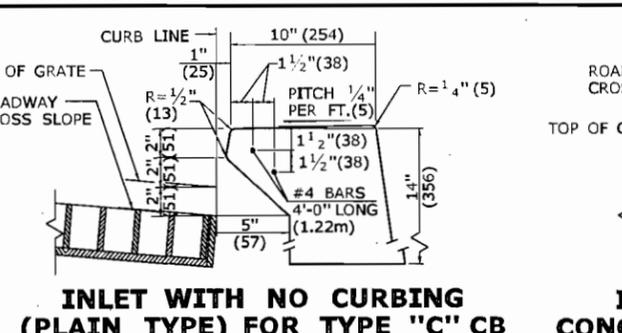
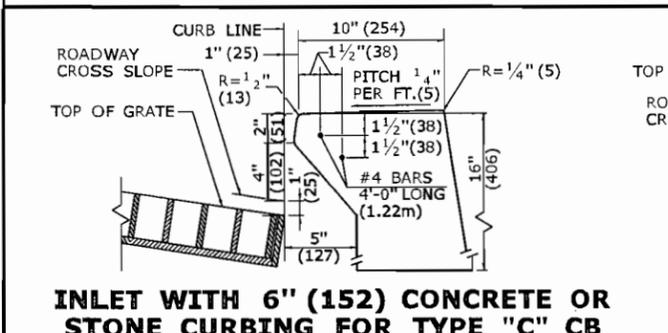
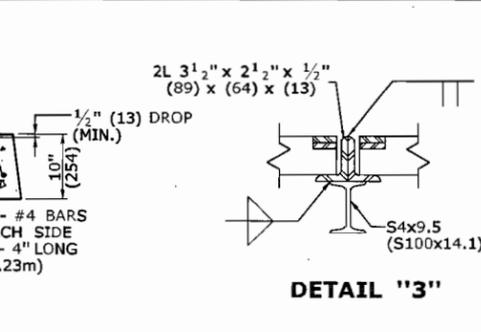
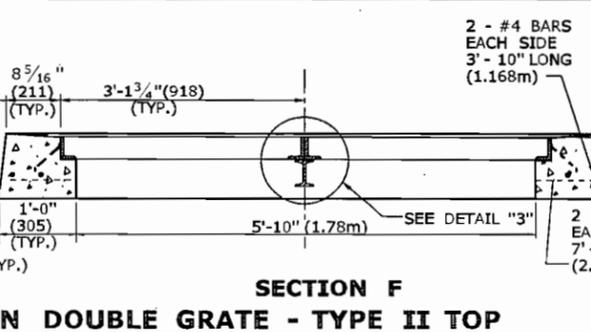
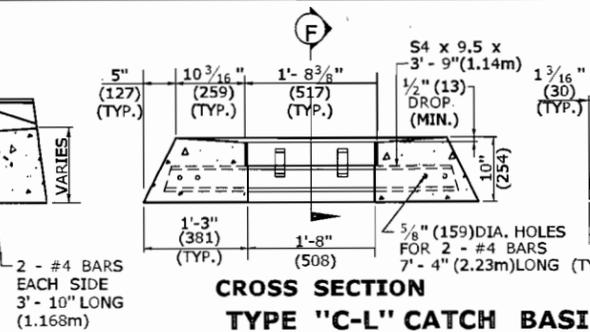
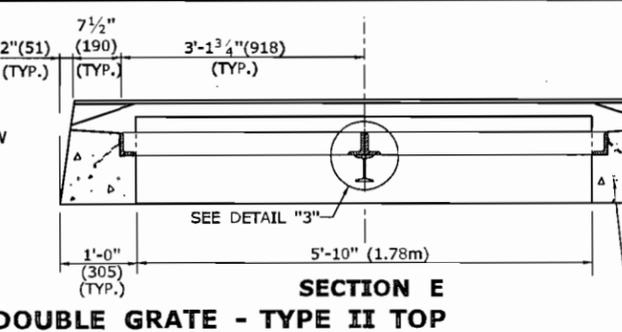
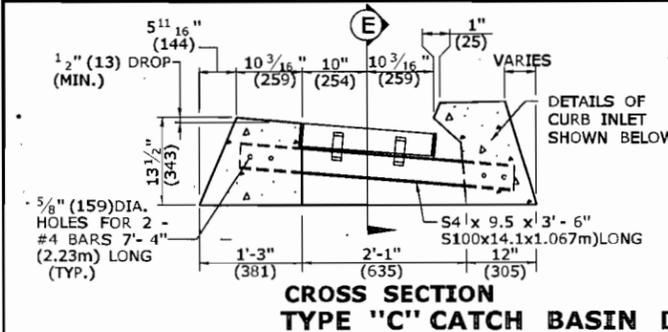
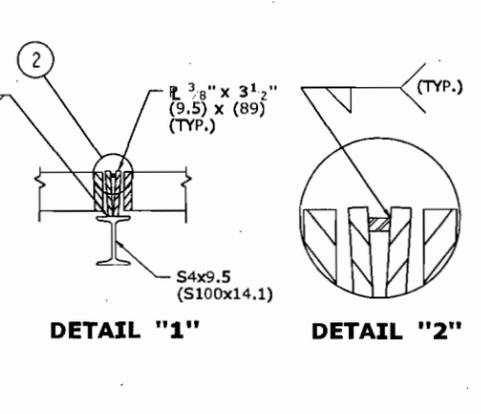
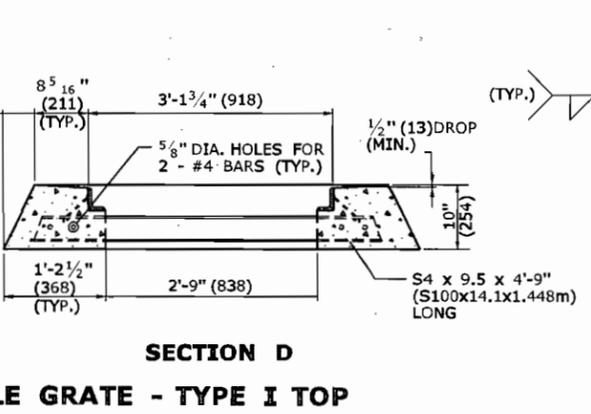
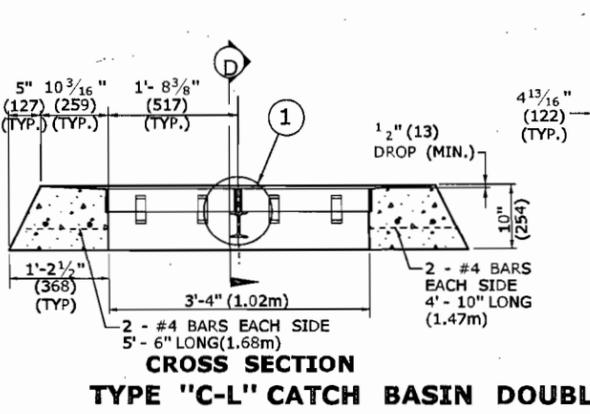
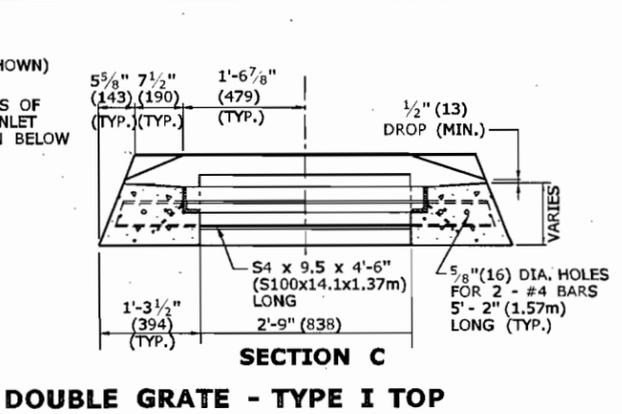
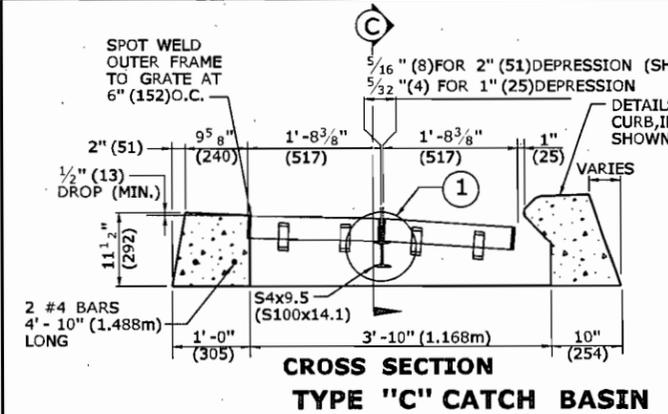
PRECAST CONCRETE TYPE "C" & "C-L" DOUBLE GRATE TYPE II CATCH BASIN
 (UNDER 10' (3.048m) DEEP SHOWN)

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

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE				SUBMITTED BY: NAME/DATE/TIME Timothy M. Wilson 2009.09.16 11:15:31 -04'00'		STANDARD SHEET TITLE: TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE-II		STANDARD SHEET NO.: HW-507_06	
REV. DATE REVISION DESCRIPTION		Plotted Date: 9/11/2009		File name: CTDOT_HIGHWAY_STDS.dgn Model: HW-507.06		APPROVED BY: NAME/DATE/TIME James H. Norman 2009.09.18 14:21:48 -04'00'		CTDOT STANDARD SHEET OFFICE OF ENGINEERING			



- GENERAL NOTES:**
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507-01.
 - ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT'S STANDARD SPECIFICATIONS.
 - ALL BARS SHALL HAVE A MINIMUM 2" (51) COVER.



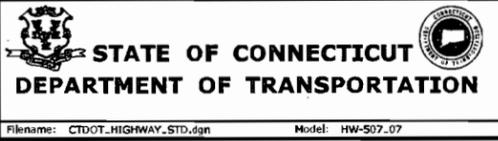
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION

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

Plotted Date: 9/13/2009

NOT TO SCALE



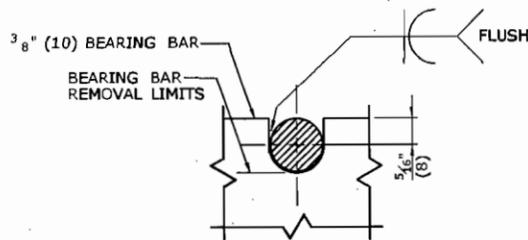
SUBMITTED BY: NAME/DATE/TIME:
Timothy M. Wilson
2009.09.16 11:16:02 -04'00'

APPROVED BY: NAME/DATE/TIME:
James H. Norman
2009.09.18 14:22:11 -04'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

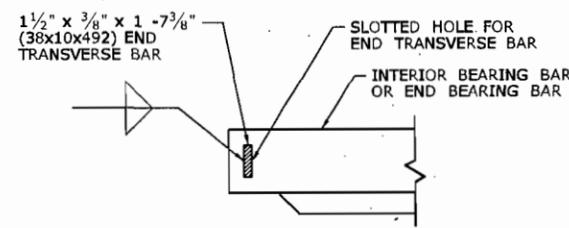
STANDARD SHEET TITLE:
TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS

STANDARD SHEET NO.:
HW-507_07

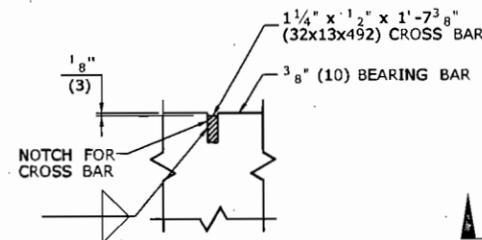


NOTE:
5/8" (16) DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

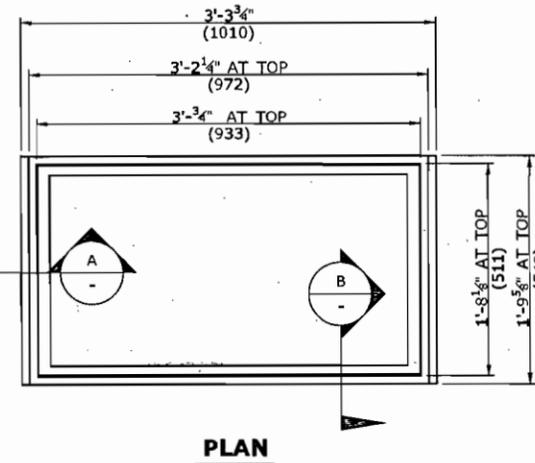
**ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A**



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



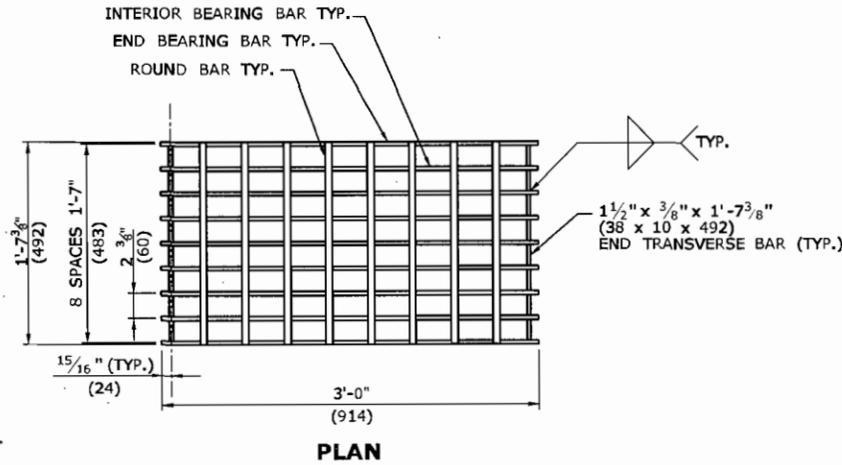
**CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B**



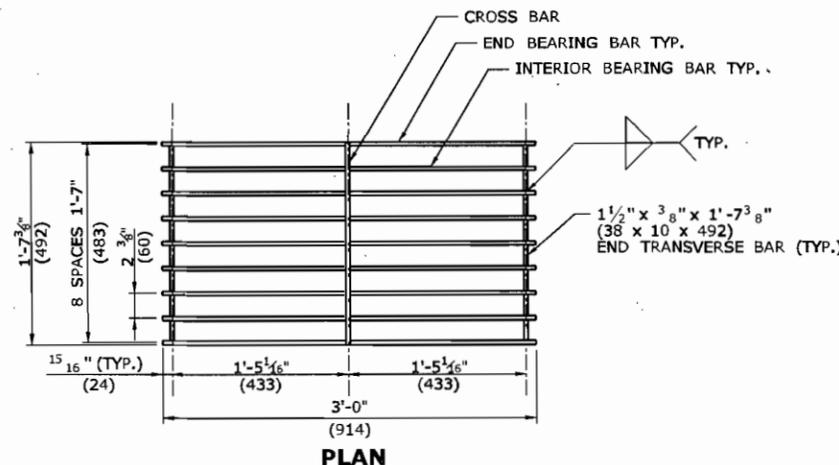
PLAN

GENERAL NOTES:

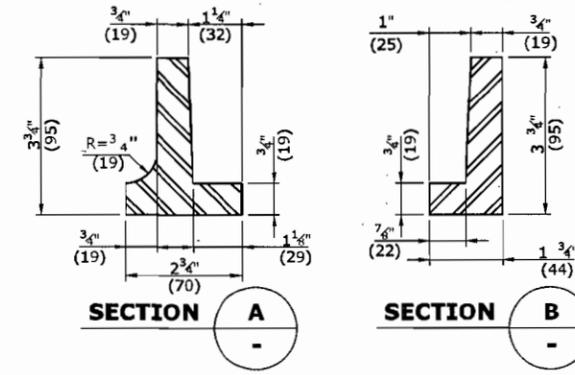
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" & "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC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



PLAN



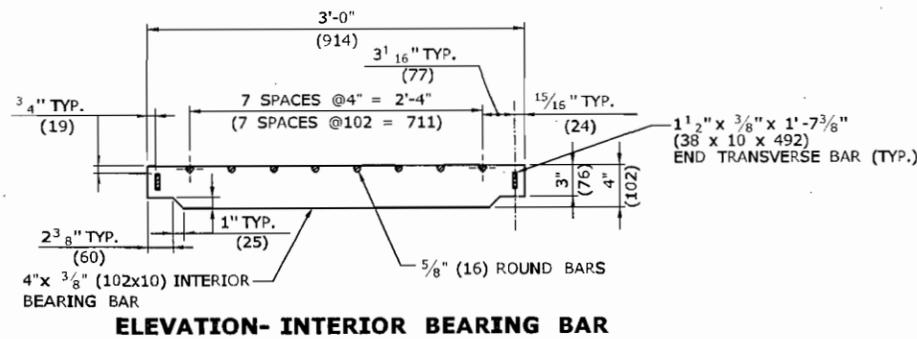
PLAN



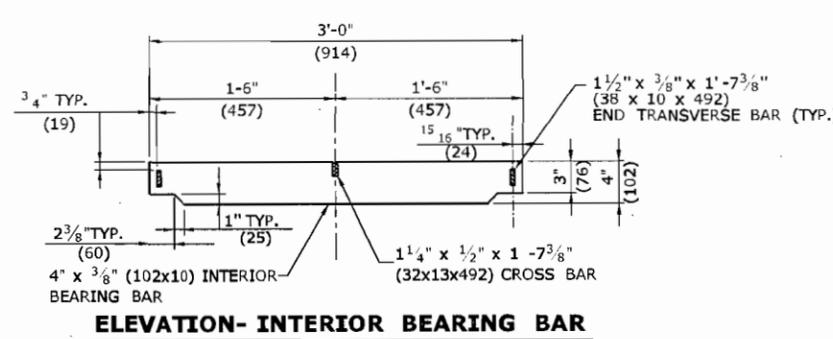
SECTION A

SECTION B

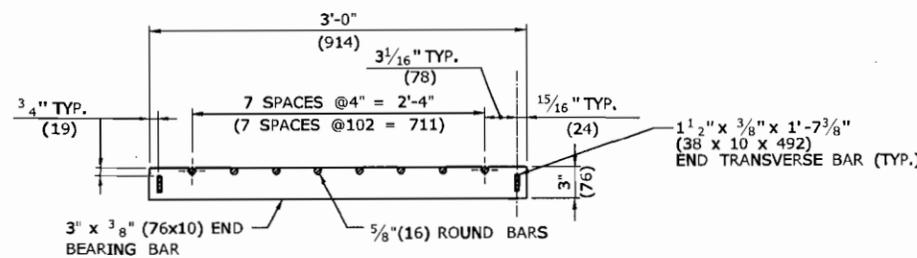
CAST IRON FRAME ALTERNATE



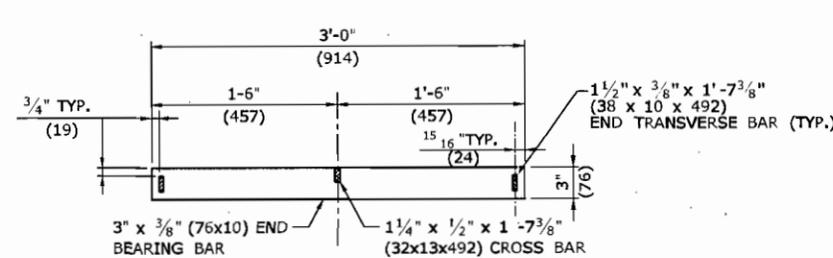
**ELEVATION- INTERIOR BEARING BAR
CATCH BASIN GRATE TYPE A**



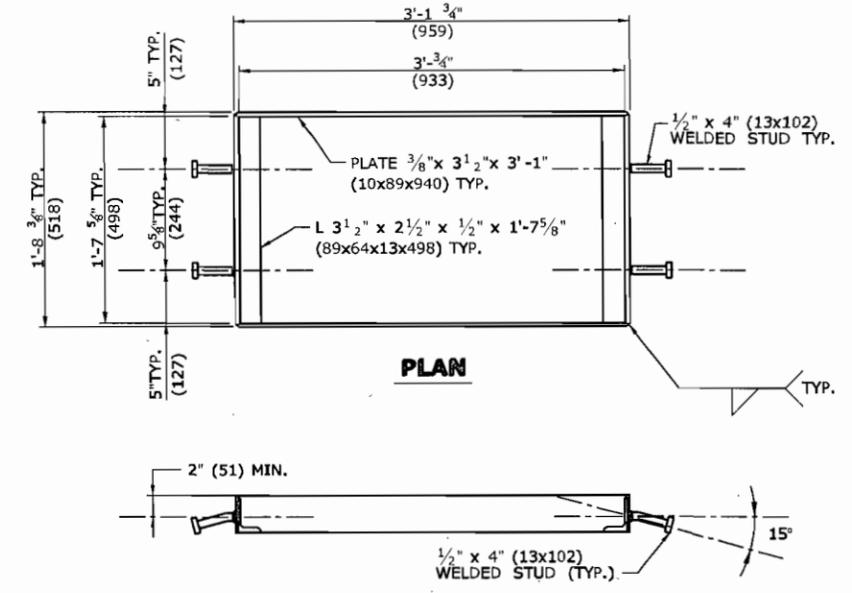
**ELEVATION- INTERIOR BEARING BAR
CATCH BASIN GRATE TYPE B**



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



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



**WELDED STUD ANCHOR DETAILS
STEEL FRAME**

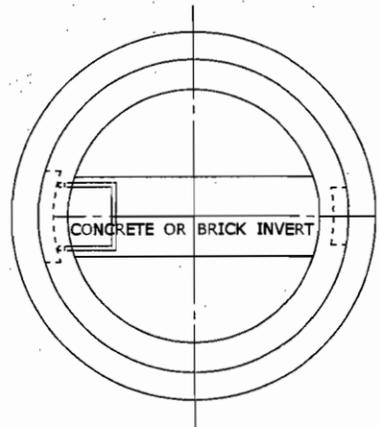
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE				SUBMITTED BY: <i>Timothy M. Wilson</i> NAME/DATE/TIME: Timothy M. Wilson 2009.09.16 11:16:32 -04'00'		CTDOT STANDARD SHEET		STANDARD SHEET TITLE: CATCH BASIN FRAMES AND GRATES		STANDARD SHEET NO.: HW-507_08	
APPROVED BY: <i>James H. Norman</i> NAME/DATE/TIME: James H. Norman 2009.09.18 14:22:33 -04'00'		OFFICE OF ENGINEERING		FILENAME: CTDOT_HIGHWAY STD.dgn		MODEL: HW-507_08							
REV.	DATE	REVISION DESCRIPTION		Plotted Date: 9/11/2009									

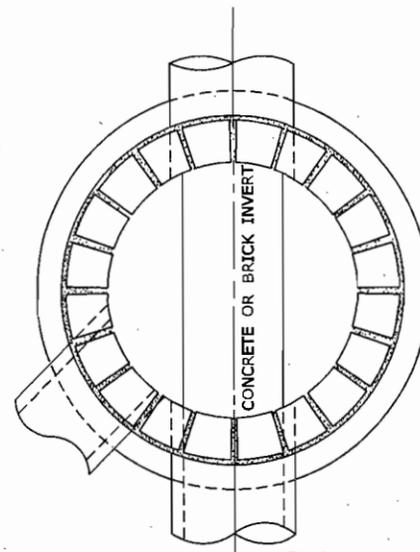
GENERAL NOTES:

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

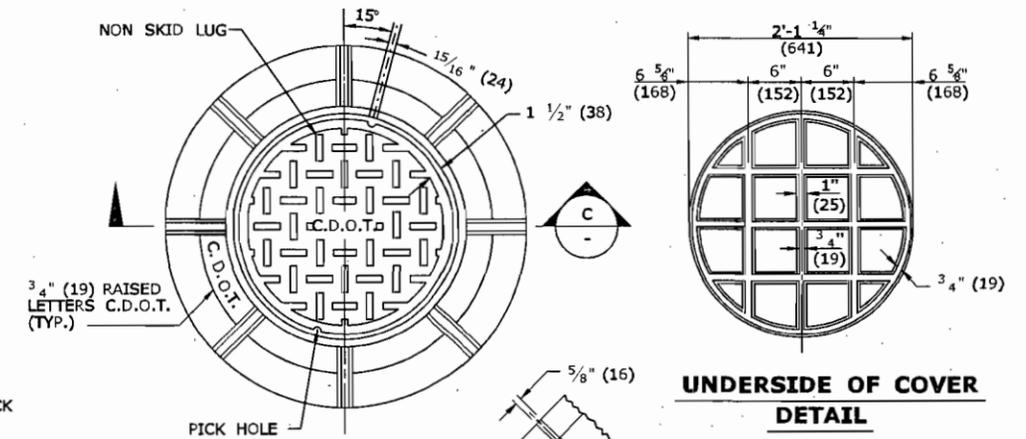
	CAST IRON	STEEL
APPROX. COVER WEIGHT	184LB.(83kg)	134LB.(61kg)
APPROX. FRAME WEIGHT	312LB.(142kg)	227LB.(103kg)
- ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.



SECTION A



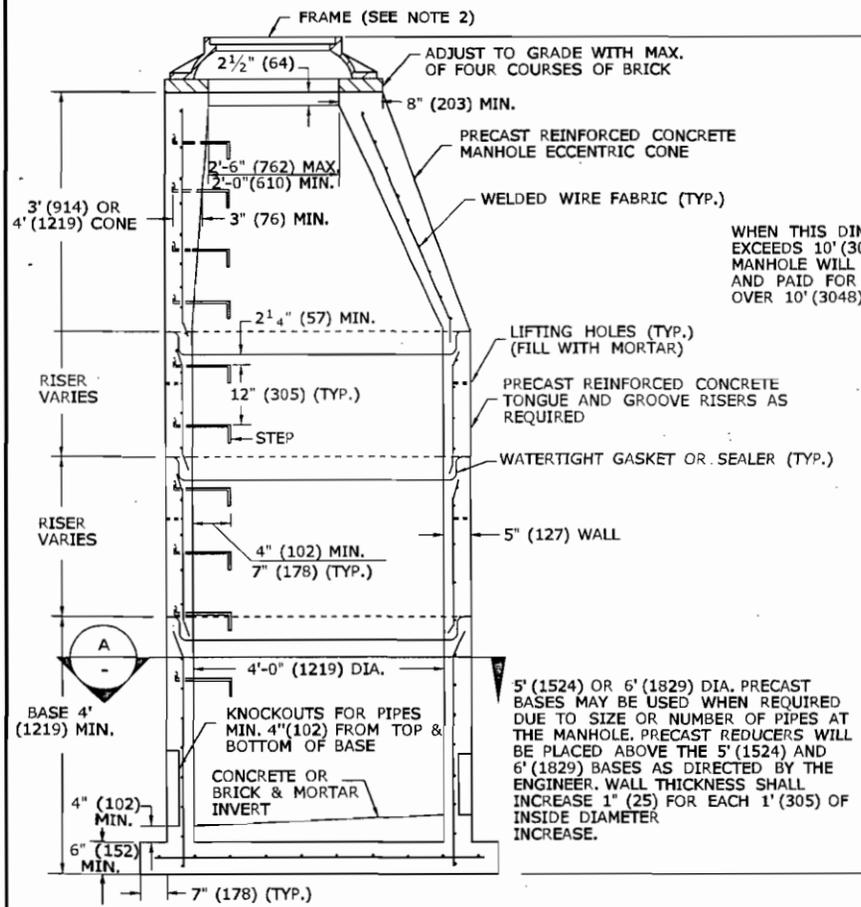
SECTION B



PLAN

UNDERSIDE OF COVER DETAIL

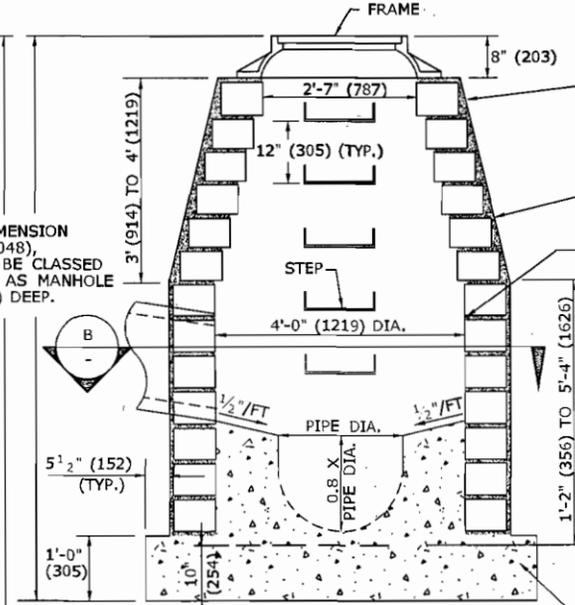
NON SKID LUG DETAIL



ELEVATION

MANHOLE

REINFORCED PRECAST CONCRETE UNIT



ELEVATION

MANHOLE

MASONRY CONCRETE UNIT OR CLASS "A" CONCRETE

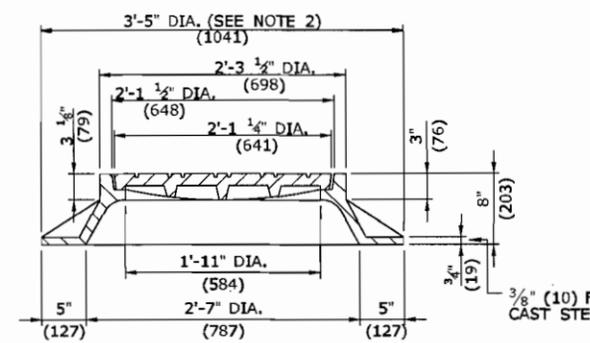
WALL SHALL BE A MIN. OF 6" (152) WITH MASONRY CONCRETE UNITS, CLASS "A" CONCRETE WALL SHALL BE 12" (300) THICK WHEN DEPTH OF MANHOLE IS GREATER THAN 10' (3048) DEEP.

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

ALL JOINTS SHALL BE POINTED FLUSH AND FULL

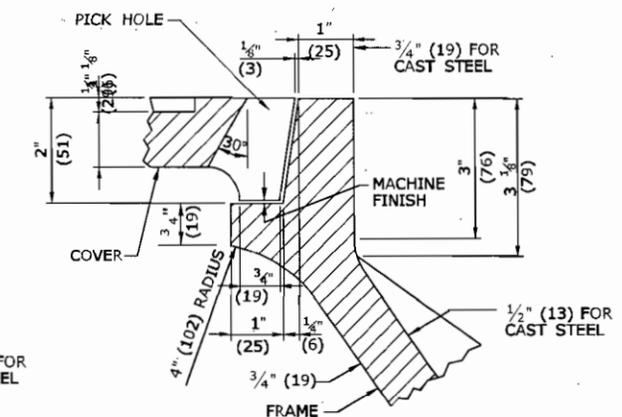
WALLS SHALL BE BUILT OF MASONRY CONCRETE UNITS OR CLASS "A" CONCRETE AT THE OPTION OF THE CONTRACTOR.

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



SECTION C

FRAME AND COVER DETAILS



DETAIL OF SEAT

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

REV.	DATE	REVISION DESCRIPTION

NOT TO SCALE

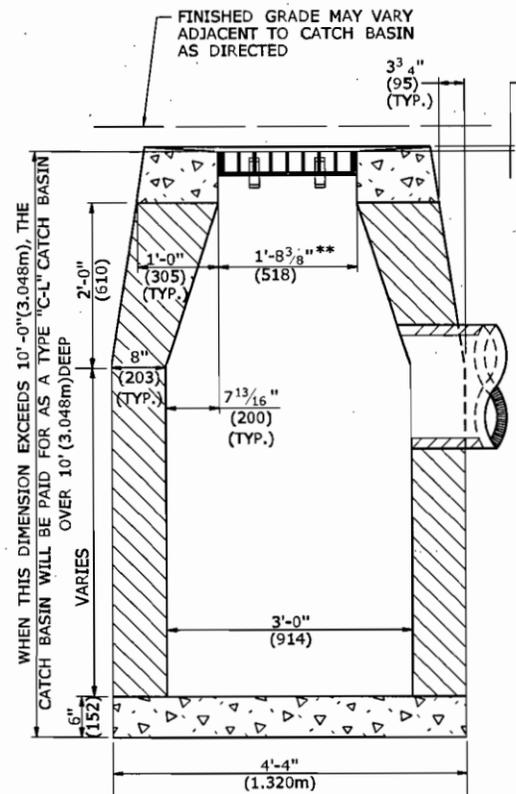
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SUBMITTED BY: *Timothy M. Wilson*
 NAME/DATE/TIME: Timothy M. Wilson 2009.09.16 11:17:43 -04'00'
 APPROVED BY: *James H. Norman*
 NAME/DATE/TIME: James H. Norman 2009.09.18 14:23:21 -04'00'

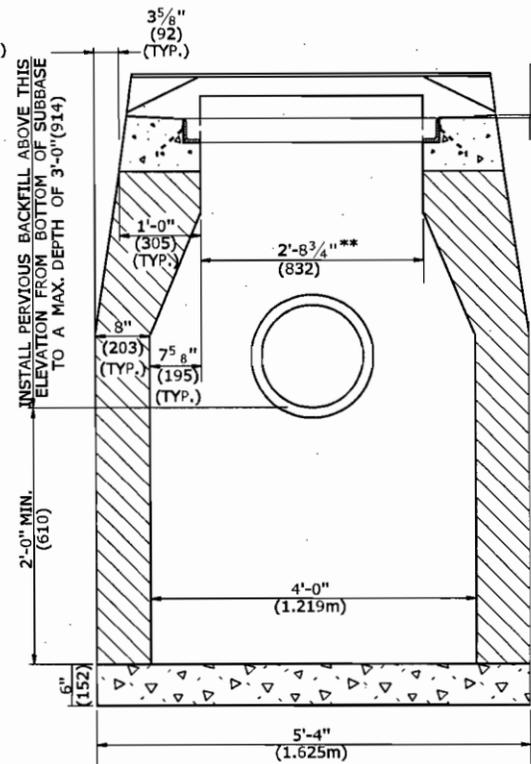
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
MANHOLE - FRAME & COVER

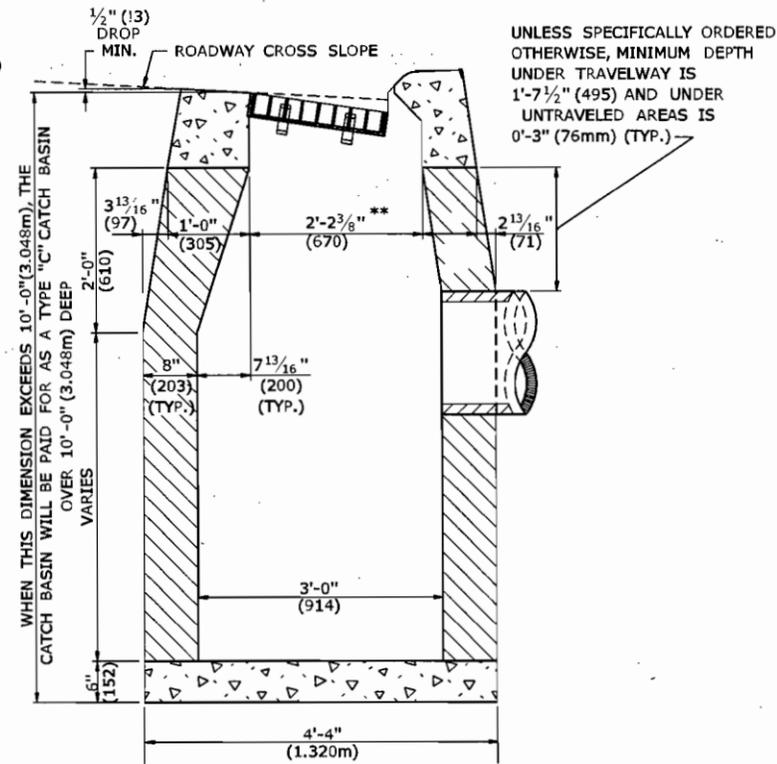
STANDARD SHEET NO.:
HW-507_10



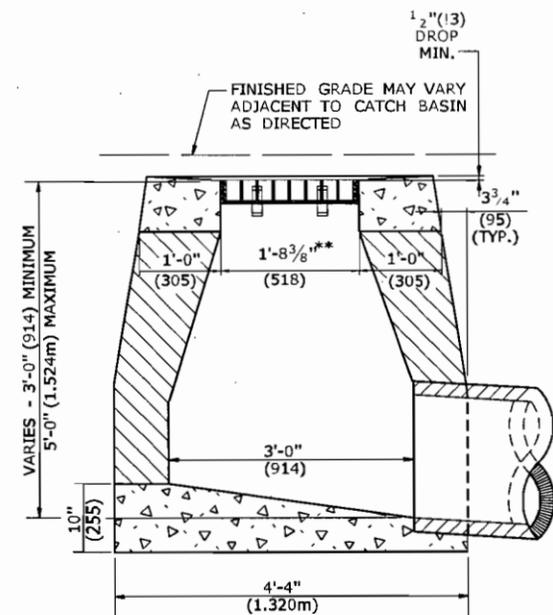
SECTION B
TYPE "C-L" CATCH BASIN



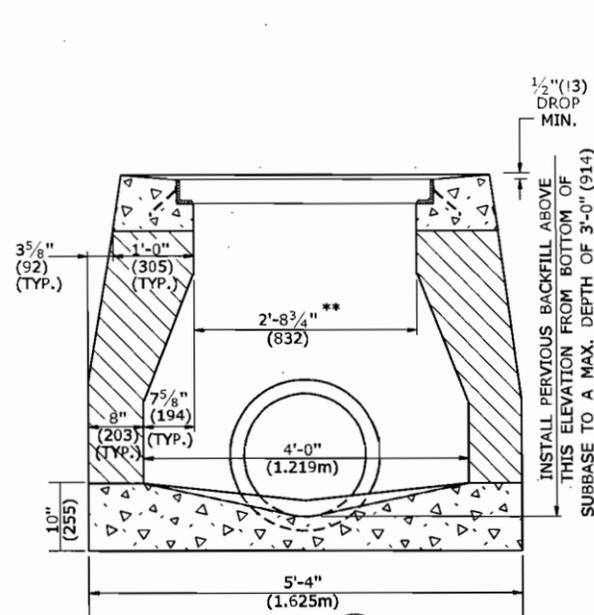
SECTION A
TYPE "C" & "C-L" CATCH BASIN
(TYPE "C" TOP SHOWN)



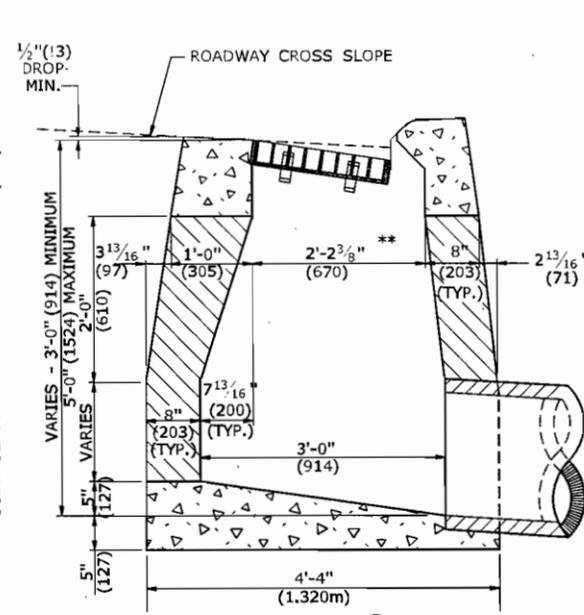
SECTION B
TYPE "C" CATCH BASIN



SECTION B
TYPE "C-L" DROP INLET



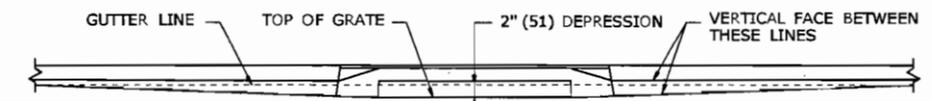
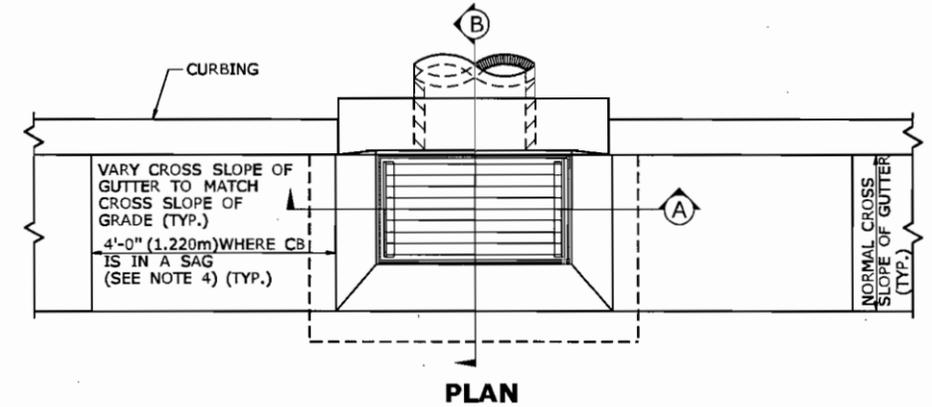
SECTION A
TYPE "C" & "C-L" DROP INLET
(TYPE "C-L" TOP SHOWN)



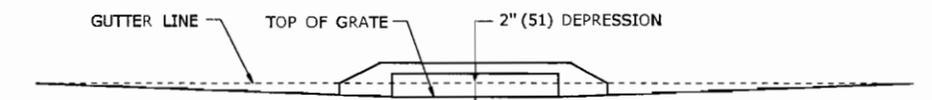
SECTION B
TYPE "C" DROP INLET

GENERAL NOTES:

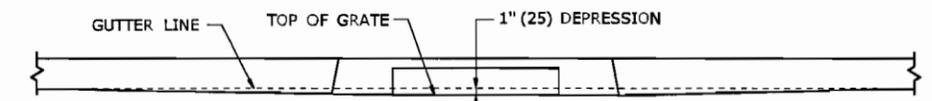
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507-08.
- USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A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



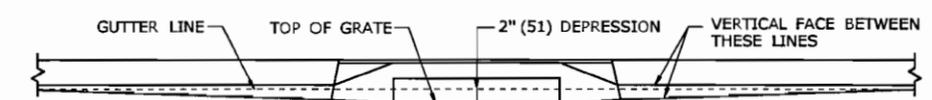
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



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



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



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

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

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

REV.	DATE	REVISION DESCRIPTION

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

NOT TO SCALE

Plotted Date: 9/11/2009

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Submitted by: Timothy M. Wilson
2009.09.16 11:10:00 -04'00'

Approved by: James H. Norman
2009.09.18 14:19:35 -04'00'

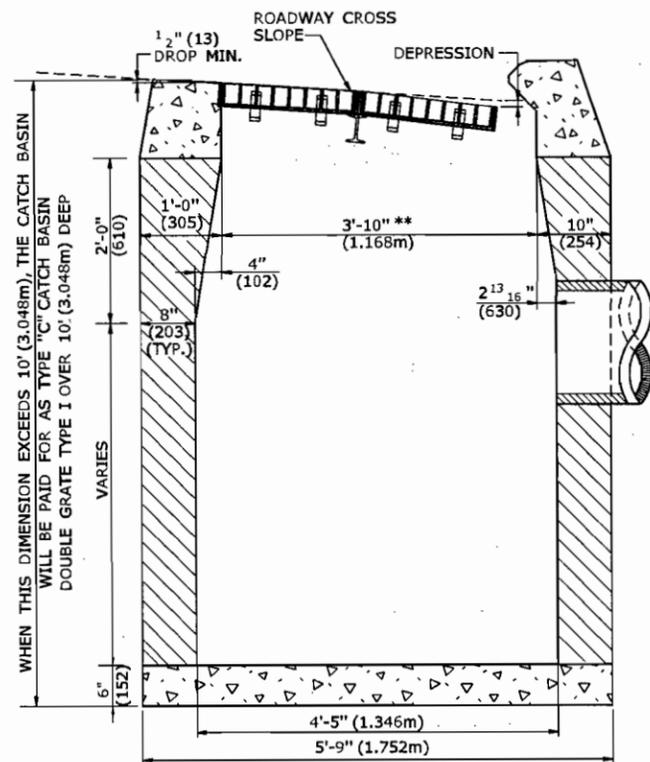
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CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

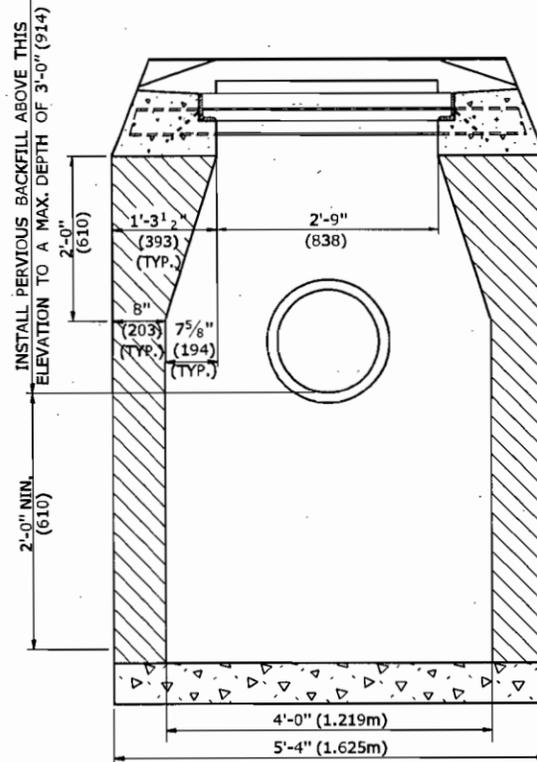
STANDARD SHEET TITLE:
TYPE "C", "C-L" & DROP INLET CATCH BASIN

STANDARD SHEET NO.:
HW-507_01



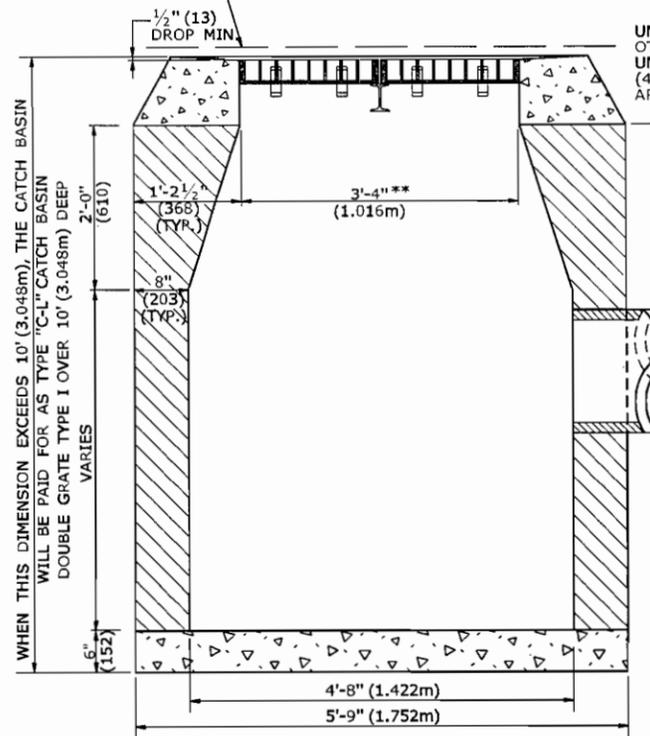
SECTION B

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I



SECTION A

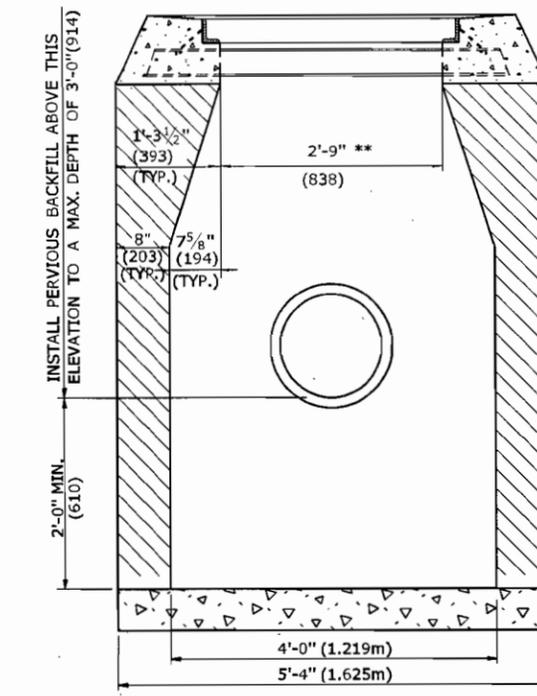
WHEN THIS DIMENSION EXCEEDS 10' (3.048m), THE CATCH BASIN WILL BE PAID FOR AS TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE I OVER 10' (3.048m) DEEP



SECTION B

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

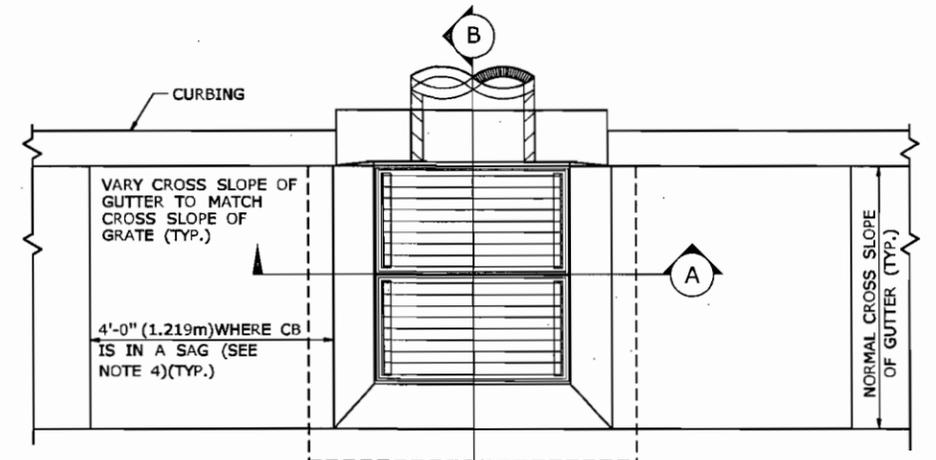
UNLESS SPECIFICALLY ORDERED OTHERWISE, MINIMUM DEPTH UNDER TRAVELWAY IS 1'-7 1/2" (495mm) AND UNDER UNTRAVELED AREAS IS 0'-3" (76mm) (TYP.)



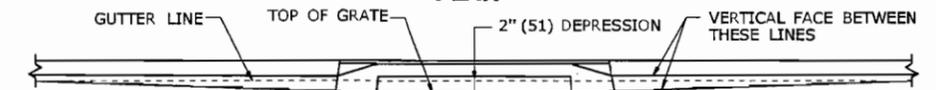
SECTION A

GENERAL NOTES:

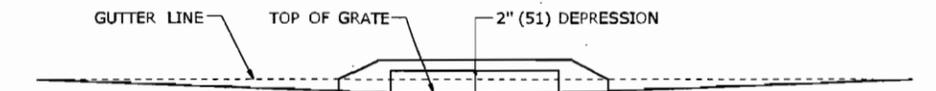
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507-08.
- USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A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



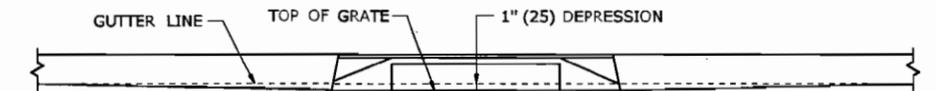
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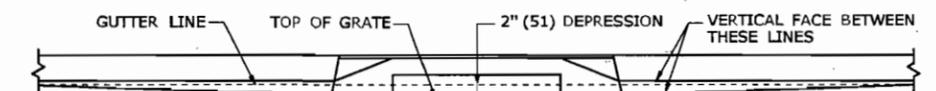
FOR CATCH BASINS IN A LINE OF 4" (102) (CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



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



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

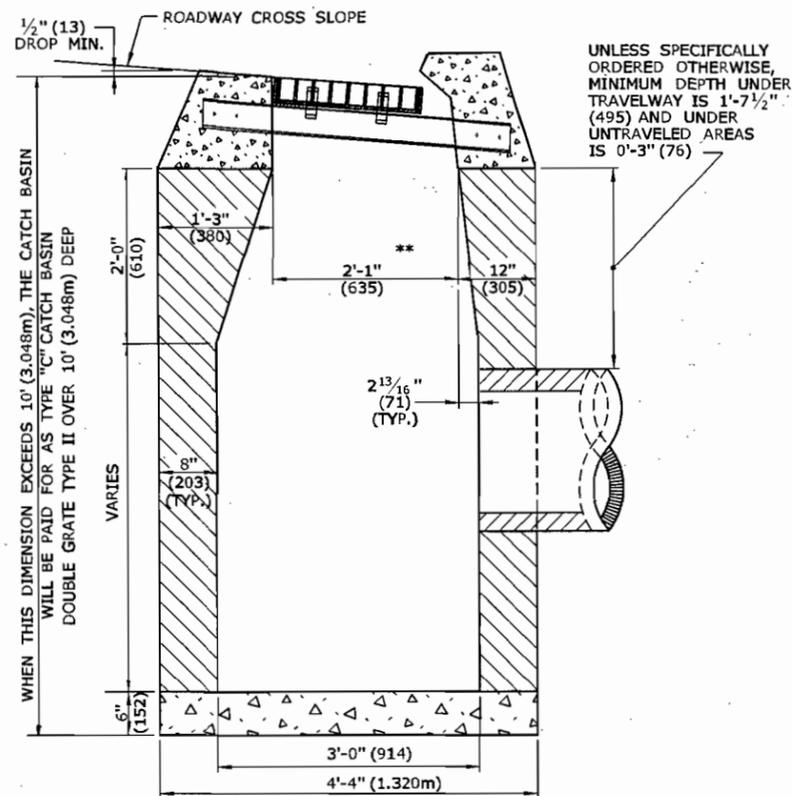


FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

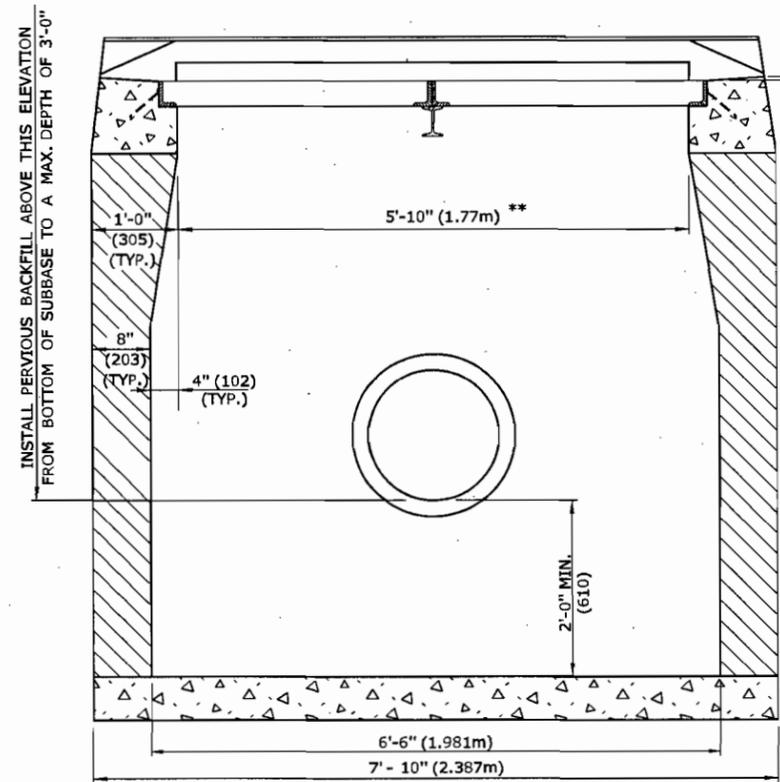
DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN

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

REV. DATE REVISION DESCRIPTION Plotted Date: 9/11/2009	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: CTDOT_HIGHWAY_STD.dgn Model: HW-507-02	SUBMITTED BY: Timothy M. Wilson 2009.09.16 11:13:32 -04'00'	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	STANDARD SHEET NO.: HW-507_02
				APPROVED BY: James H. Norman 2009.09.18 14:20:04 -04'00'		ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED	

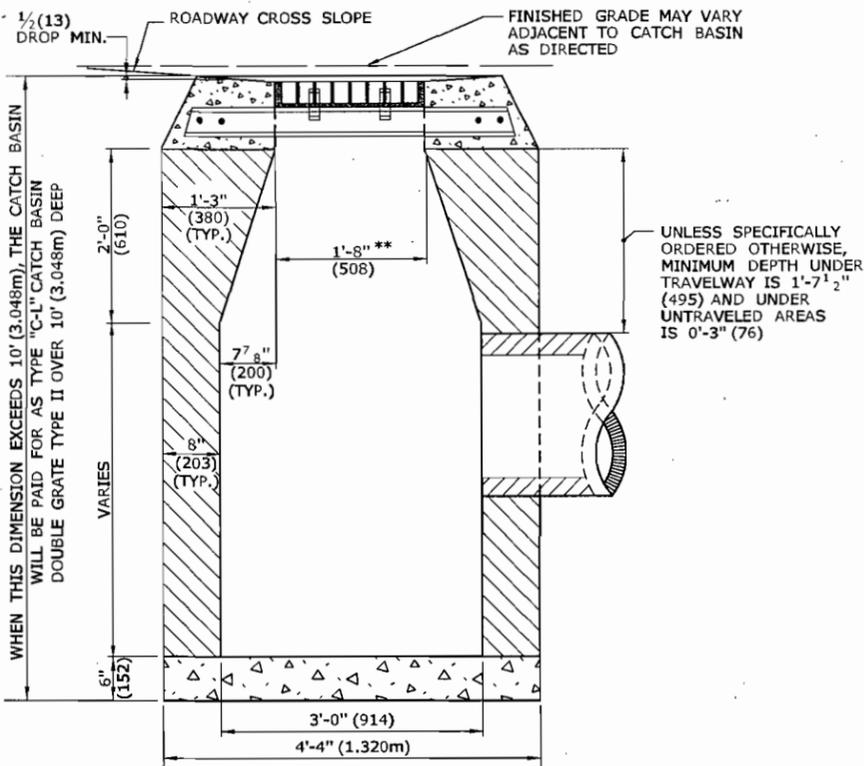


SECTION B

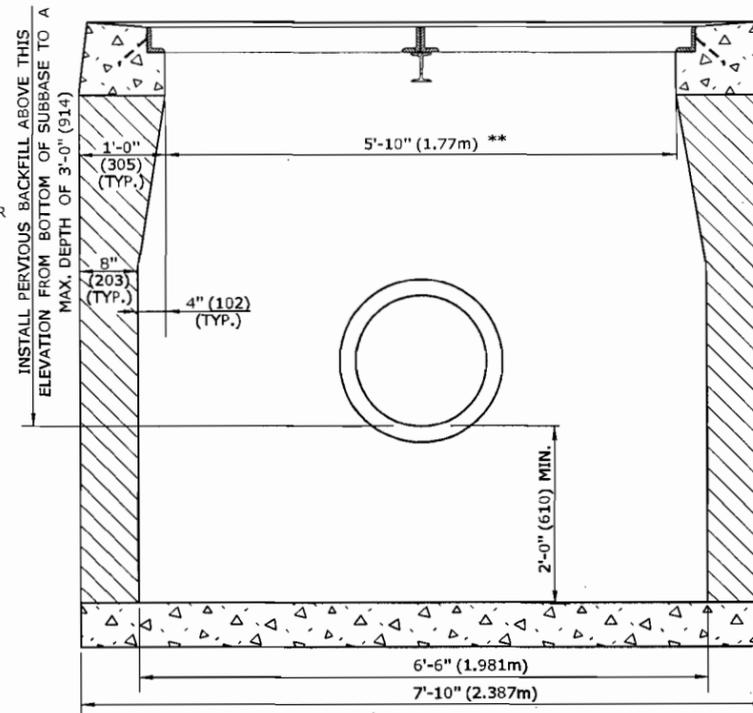


SECTION A

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II



SECTION B

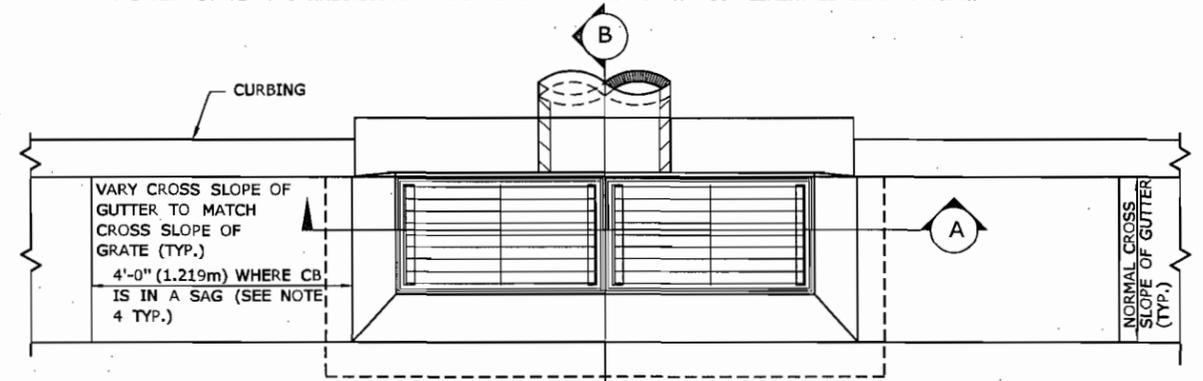


SECTION A

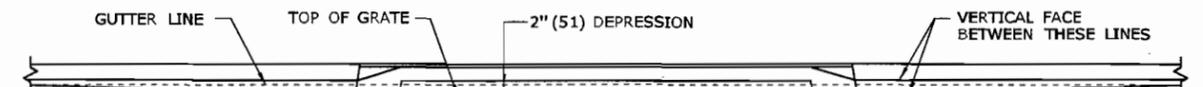
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II

GENERAL NOTES:

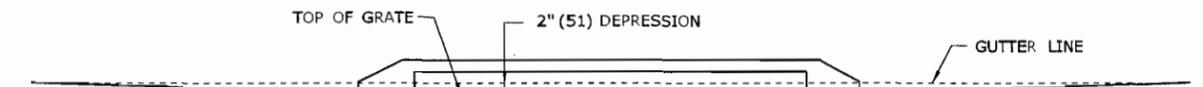
1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507-08.
2. USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
3. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH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



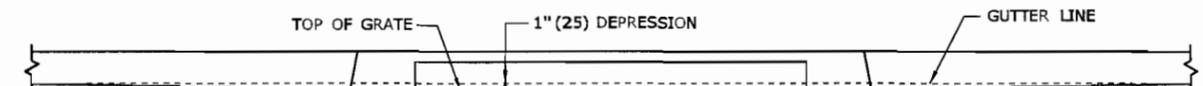
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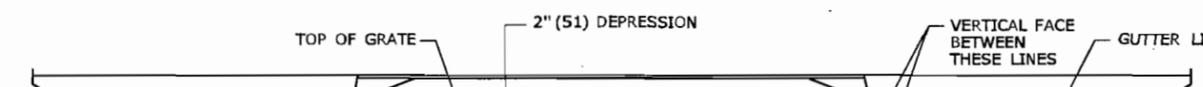
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



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



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



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

DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II

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

REV.	DATE	REVISION DESCRIPTION

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Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT-HIGHWAY-STD.dgn Model: HW-507-03

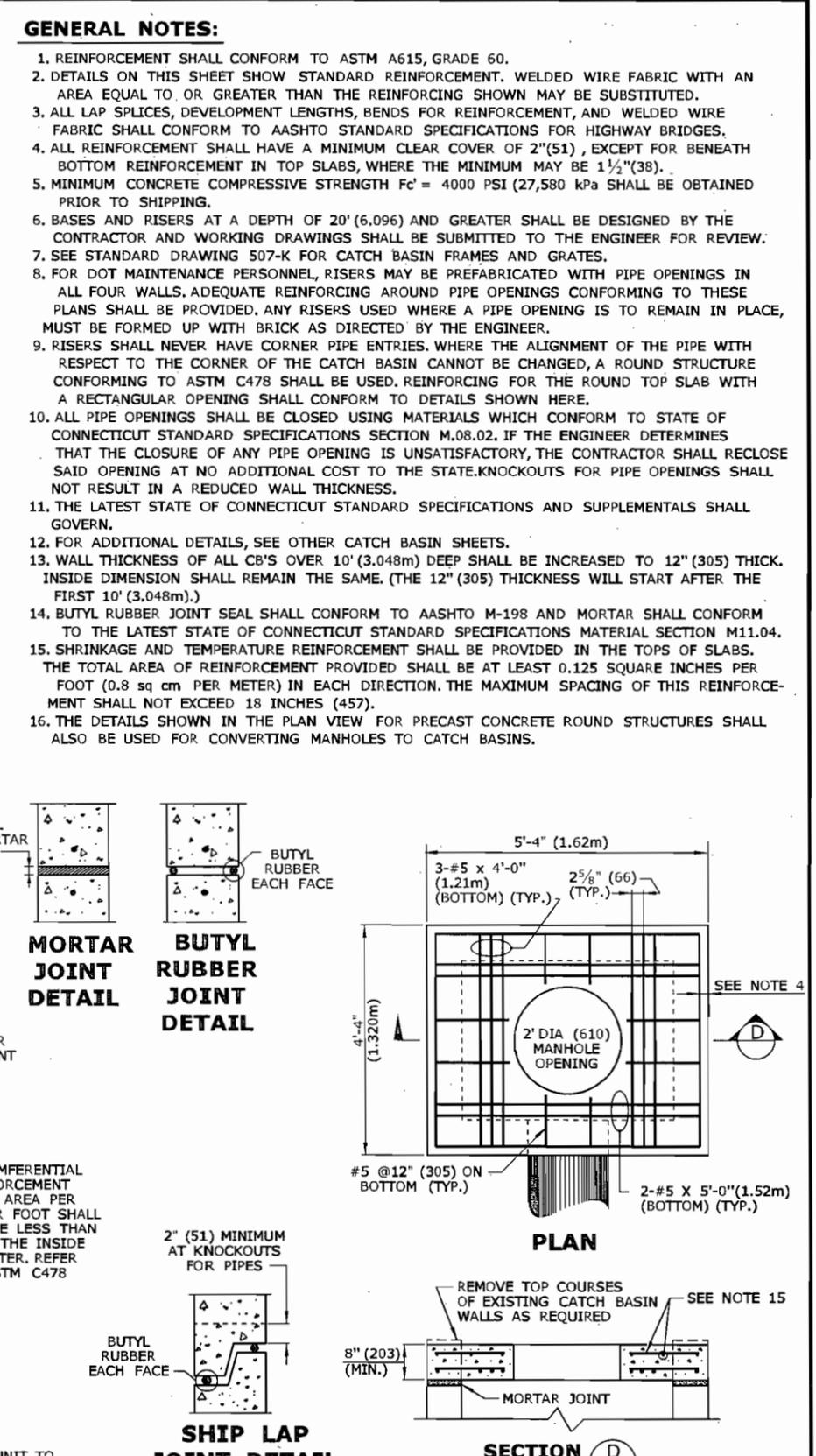
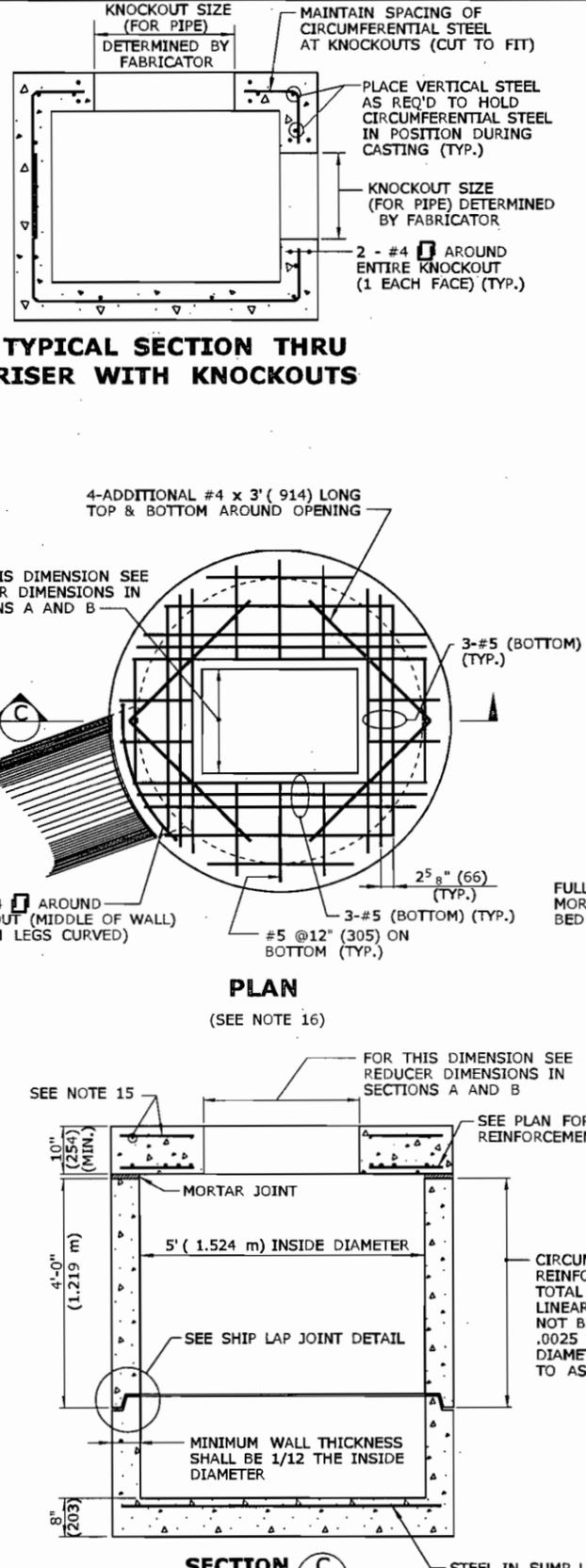
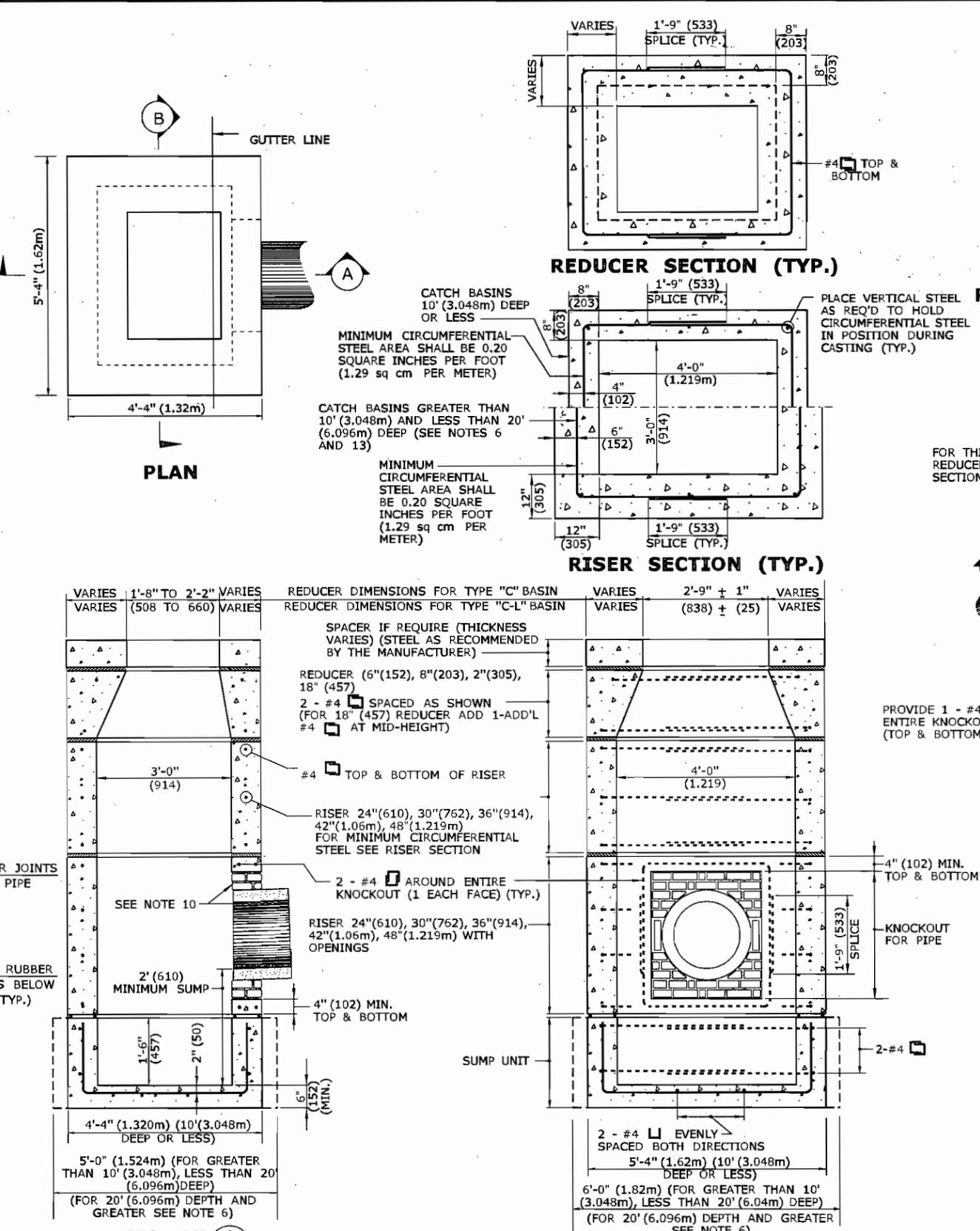
SUBMITTED BY: NAME/DATE/TIME:
Timothy M. Wilson
2009.09.16 11:14:05 -04'00'

APPROVED BY: NAME/DATE/TIME:
James H. Norman
2009.09.18 14:20:32 -04'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
TYPE "C", "C-L" &
DOUBLE GRATE TYPE - II

STANDARD SHEET NO.:
HW-507_03

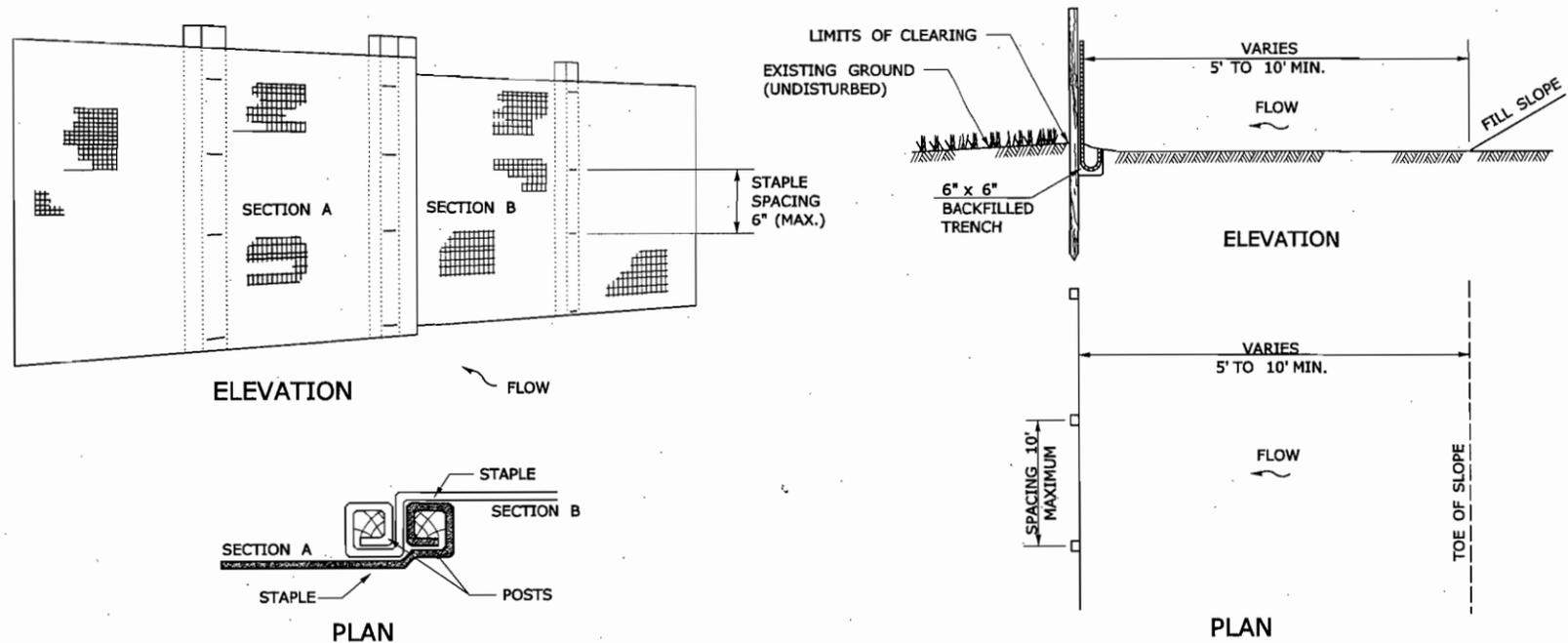


PRECAST CONCRETE TYPE "C" & "C-L" CATCH BASIN
 (UNDER 10' (3.04m) DEEP SHOWN)

PRECAST CONCRETE TYPE "C" & "C-L" ROUND STRUCTURE
 (SEE NOTE 9)

TOP SLAB TO CONVERT CATCH BASIN TO MANHOLE
 ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

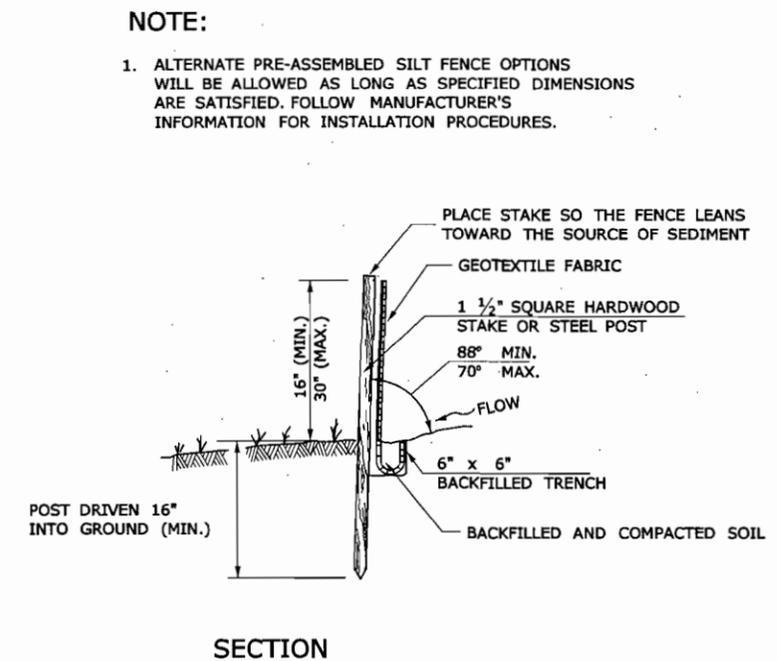
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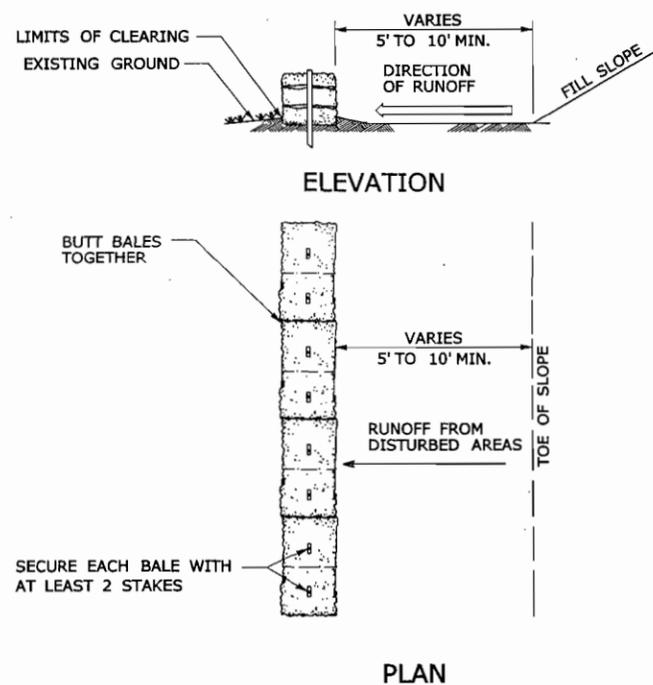
JOINING TWO ADJACENT SILT FENCE SECTIONS

SILT FENCE INSTALLATION AT TOE OF FILL

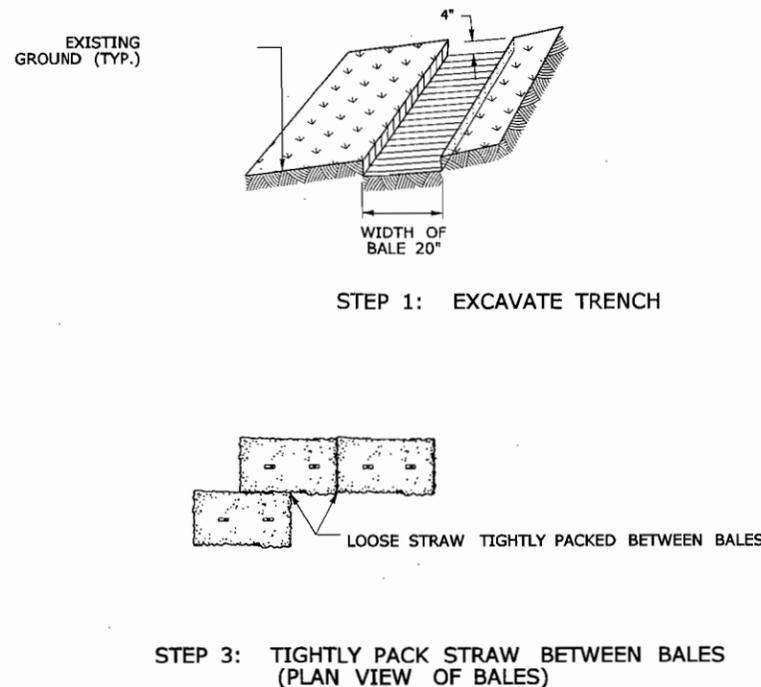
POST AND FABRIC INSTALLATION DETAIL



SILT FENCE
NOT TO SCALE

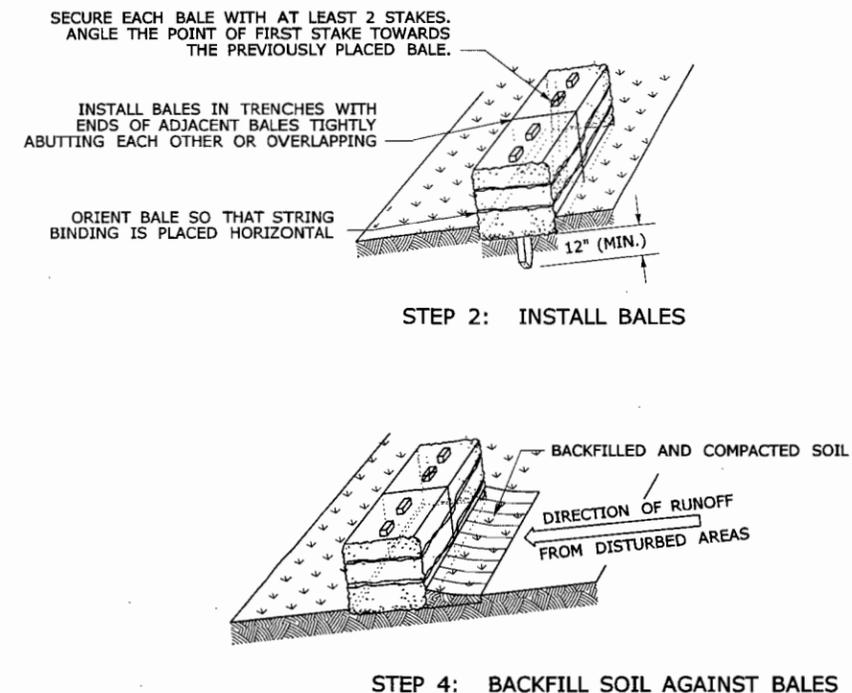


INSTALLATION OF A HAY BALE BARRIER AT TOE OF FILL



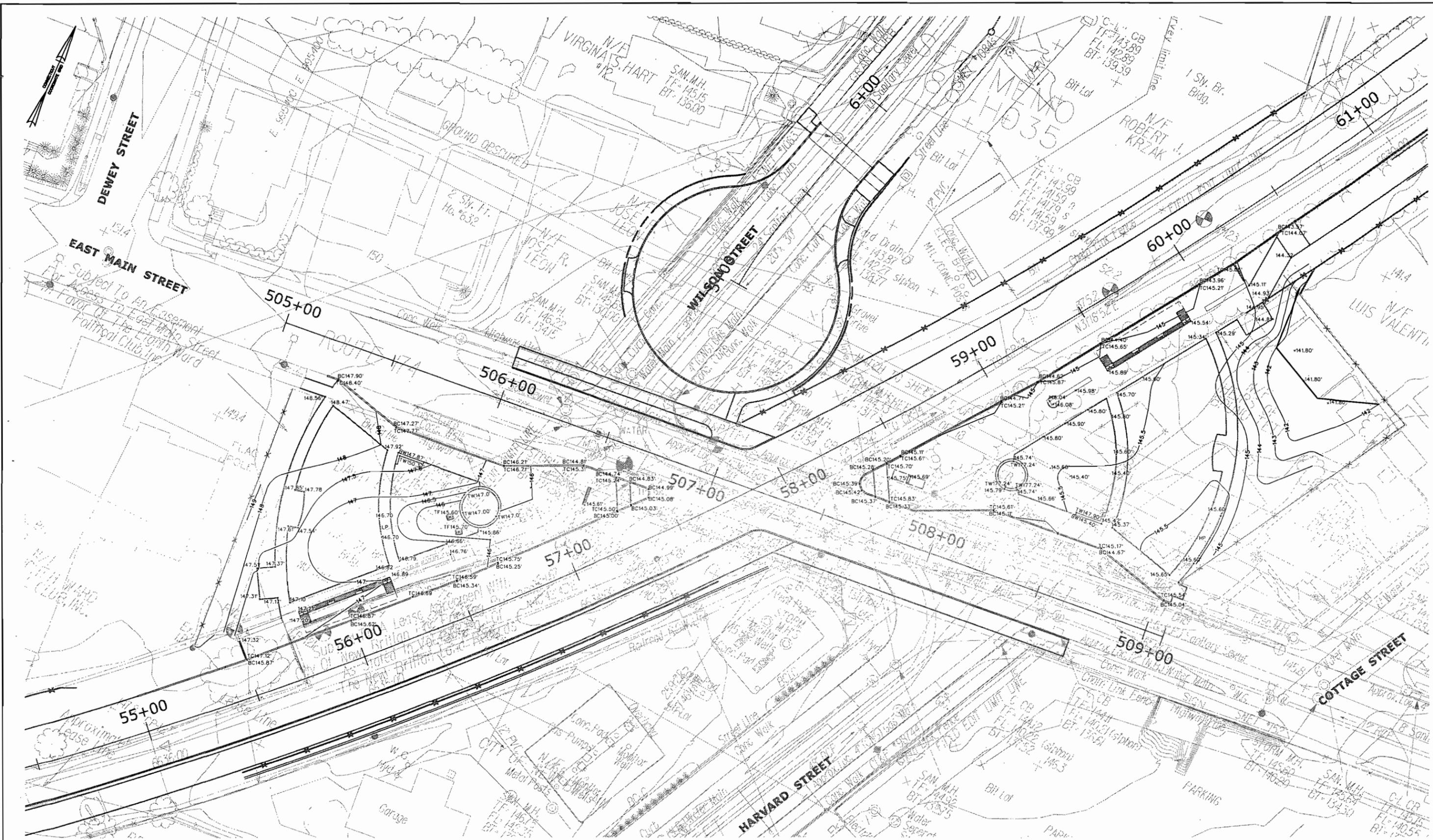
PROPERLY STAKED AND ENTRENCHED HAY BALES

HAY BALES
NOT TO SCALE



FINAL DESIGN REVIEW

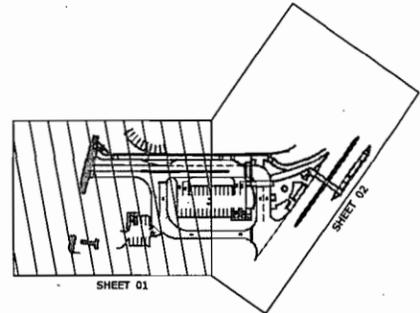
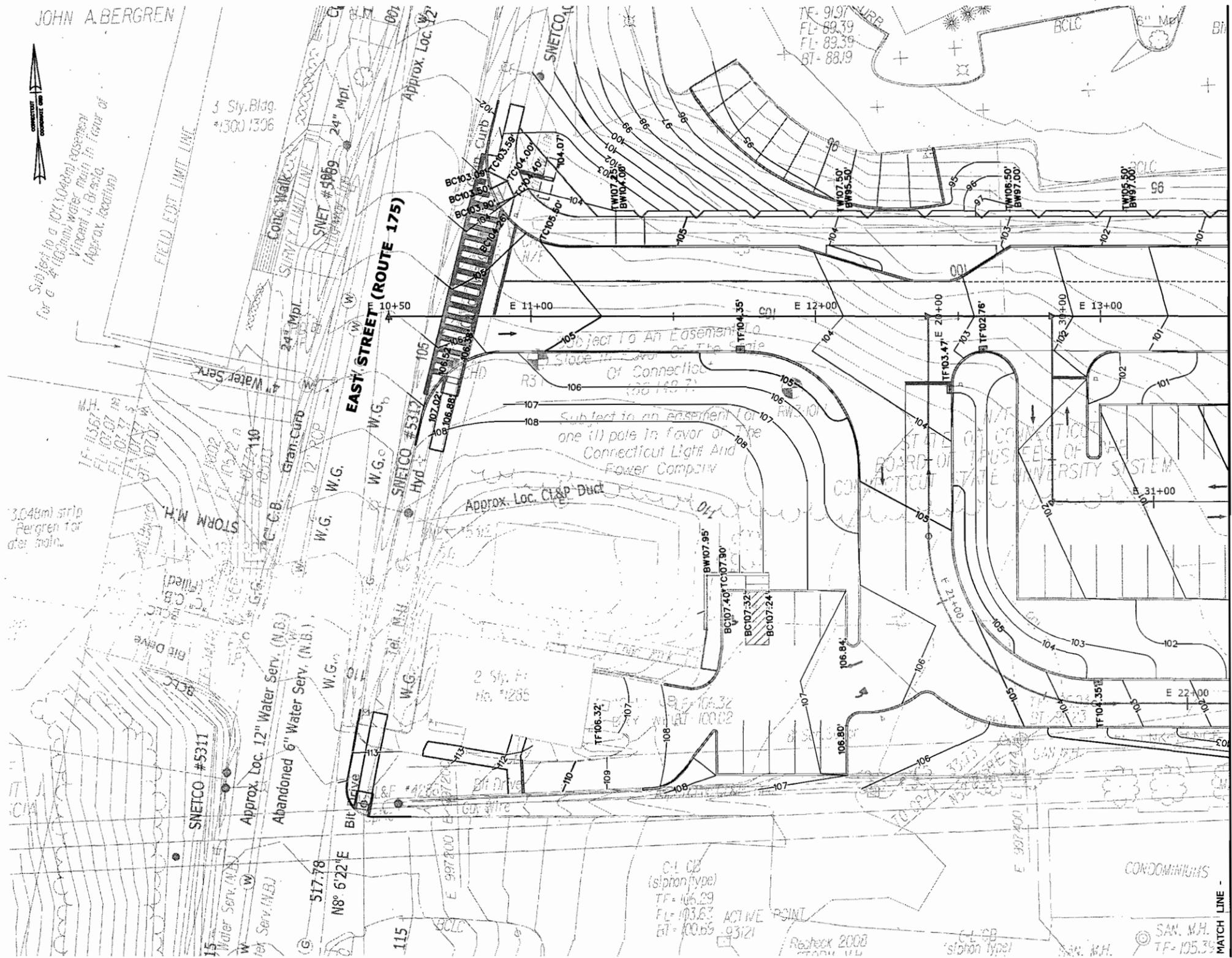
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CHECKED BY: AGB		APPROVED BY: _____ DATE: _____	DRAWING TITLE: CIVIL DETAILS		DRAWING NO. MDS-C01
NTS				SHEET NO.	
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/8/2010		



JOHN A. BERGREN



Subject to a 10' (3.048m) easement
for a 24" (609.6mm) water main in favor of
Vincent J. Branch,
(Approx. location)



KEY PLAN

SEE DRAWING NO. GRD-E02
MATCH LINE

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 6/22/2010

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:
EAD

CHECKED BY:
AGB

SCALE IN FEET
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SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

File name: ...FD_MSH_GRD_88H039_EAST-01.dgn

SIGNATURE/BLOCK:
S E A CONSULTANTS

APPROVED BY: _____ DATE: _____

PROJECT TITLE:
**NEW BRITAIN - HARTFORD
BUS RAPID TRANSIT STATIONS
EAST STREET**

TOWN:
NEW BRITAIN

DRAWING TITLE:
GRADING PLAN

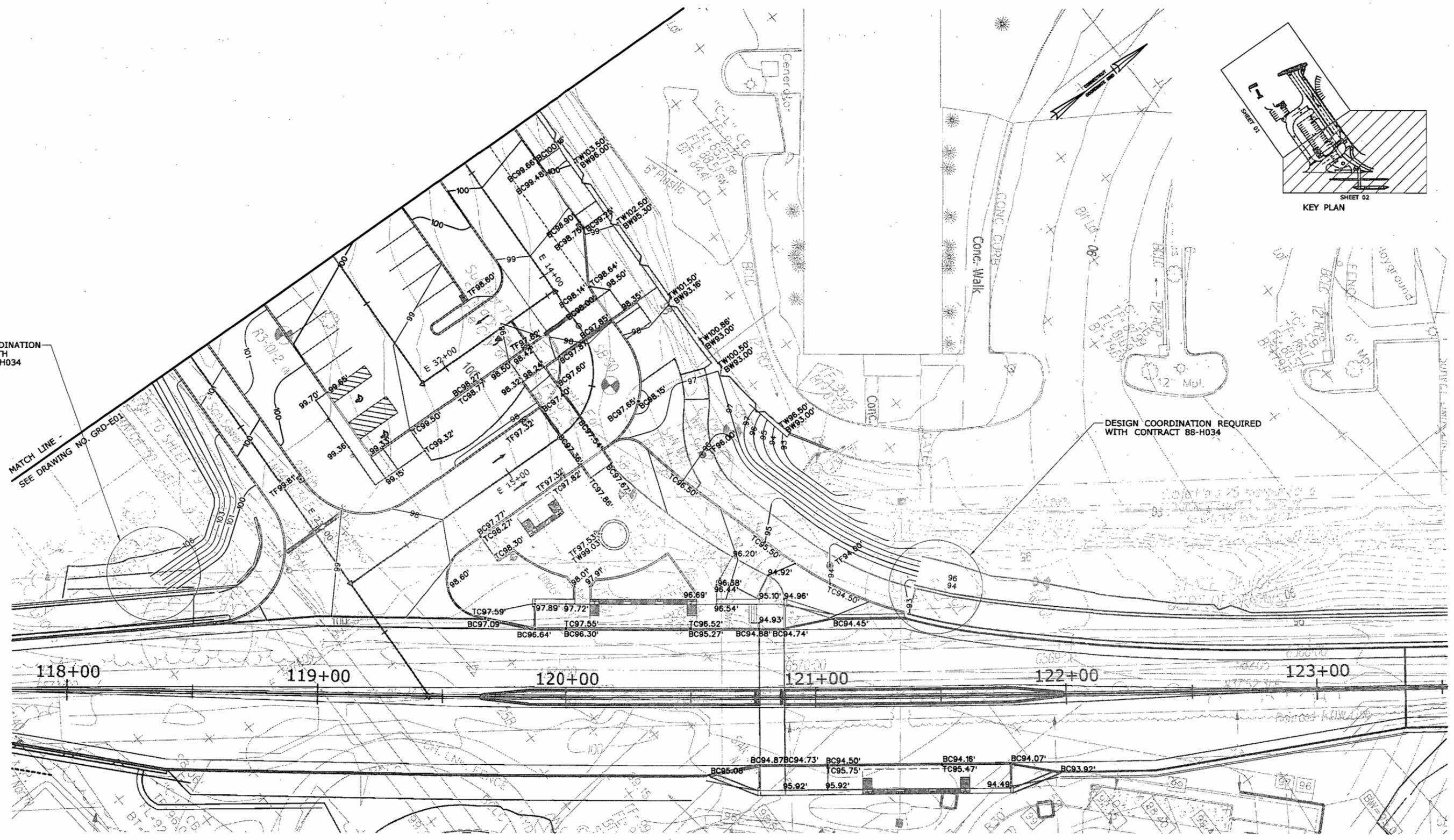
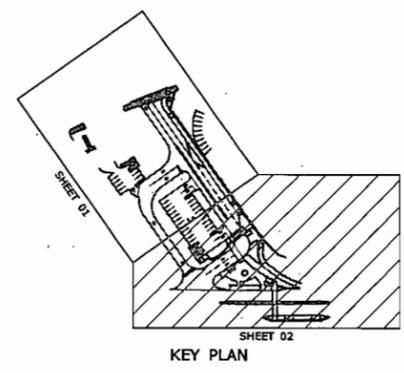
PROJECT NO.
88-H039

DRAWING NO.
GRD-E01

SHEET NO.

DESIGN COORDINATION
REQUIRED WITH
CONTRACT 88-H034

DESIGN COORDINATION REQUIRED
WITH CONTRACT 88-H034



SEMI FINAL DESIGN REVIEW

REV.	DATE	DESIGN COORDINATION REVISIONS	REVISION DESCRIPTION	SHEET NO.
1	NOV. 09	DESIGN COORDINATION REVISIONS		

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:
EAD
CHECKED BY:
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SCALE IN FEET
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SCALE 1"=20'



SIGNATURE/
BLOCK:
S E A CONSULTANTS
APPROVED BY: DATE:

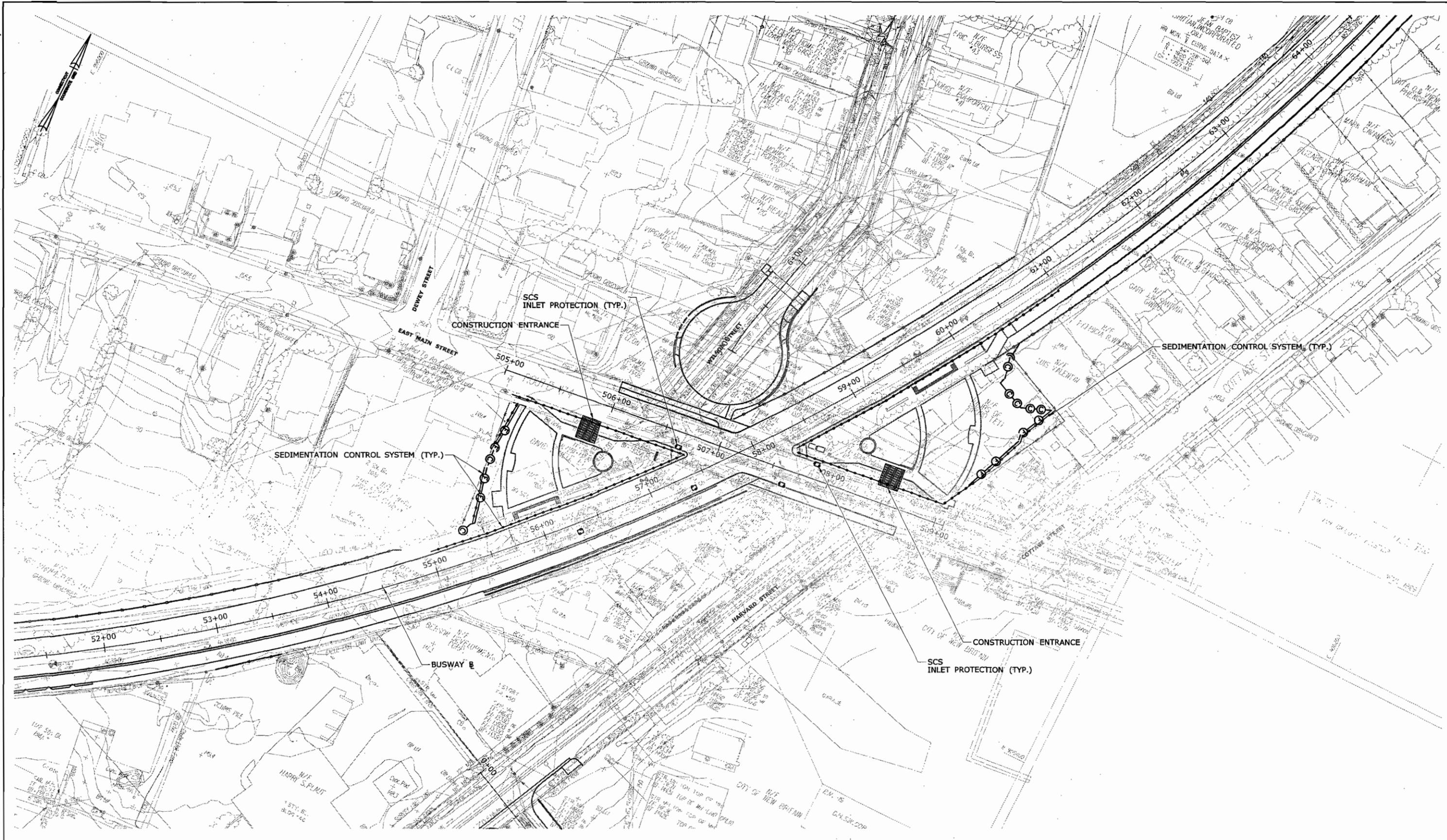
PROJECT TITLE:
**NEW BRITAIN - HARTFORD
BUS RAPID TRANSIT STATIONS
EAST STREET**

TOWN:
NEW BRITAIN
DRAWING TITLE:
GRADING PLAN

PROJECT NO.
88-H039
DRAWING NO.
GRD-E02
SHEET NO.

Filename: ...VD_MSH_GRD_88H039_EAST-02.dgn

Plotted Date: 6/22/2010



SEMI 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.

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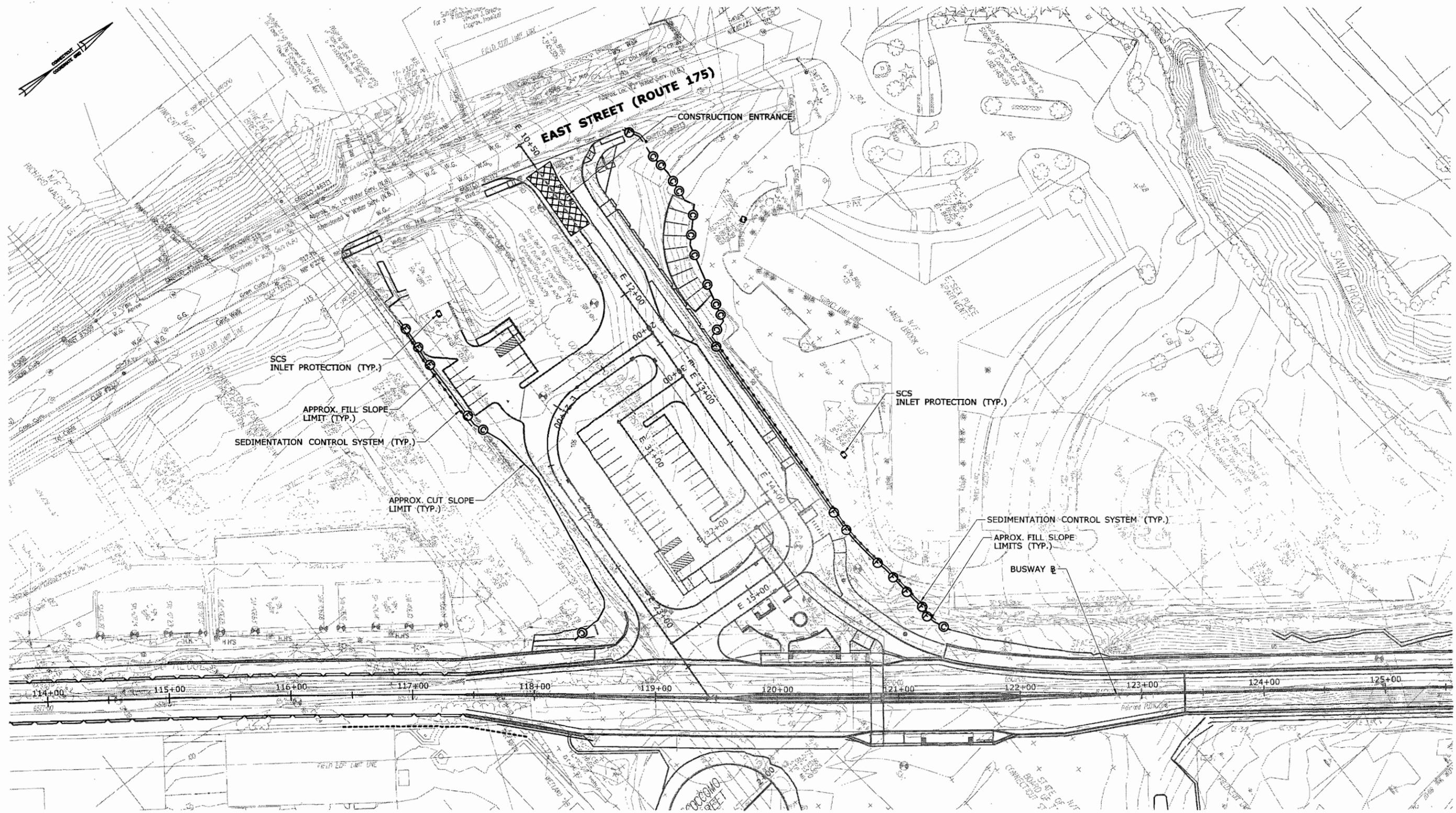


SIGNATURE/BLOCK:
S E A CONSULTANTS
APPROVED BY: DATE:

PROJECT TITLE:
**NEW BRITAIN - HARTFORD
BUS RAPID TRANSIT STATIONS
EAST MAIN STREET**

TOWN:
NEW BRITAIN
DRAWING TITLE:
**SEDIMENTATION AND
EROSION CONTROL**

PROJECT NO.
88-H039
DRAWING NO.
SED-M01
SHEET NO.



SEMI 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 Date: 6/22/2010

DESIGNER/DRAFTER:
EAD

CHECKED BY:
AGB

SCALE IN FEET
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SCALE 1"=40'



SIGNATURE/BLOCK:
S E A CONSULTANTS

APPROVED BY: _____ DATE: _____

PROJECT TITLE:
**NEW BRITAIN - HARTFORD
BUS RAPID TRANSIT STATIONS
EAST STREET**

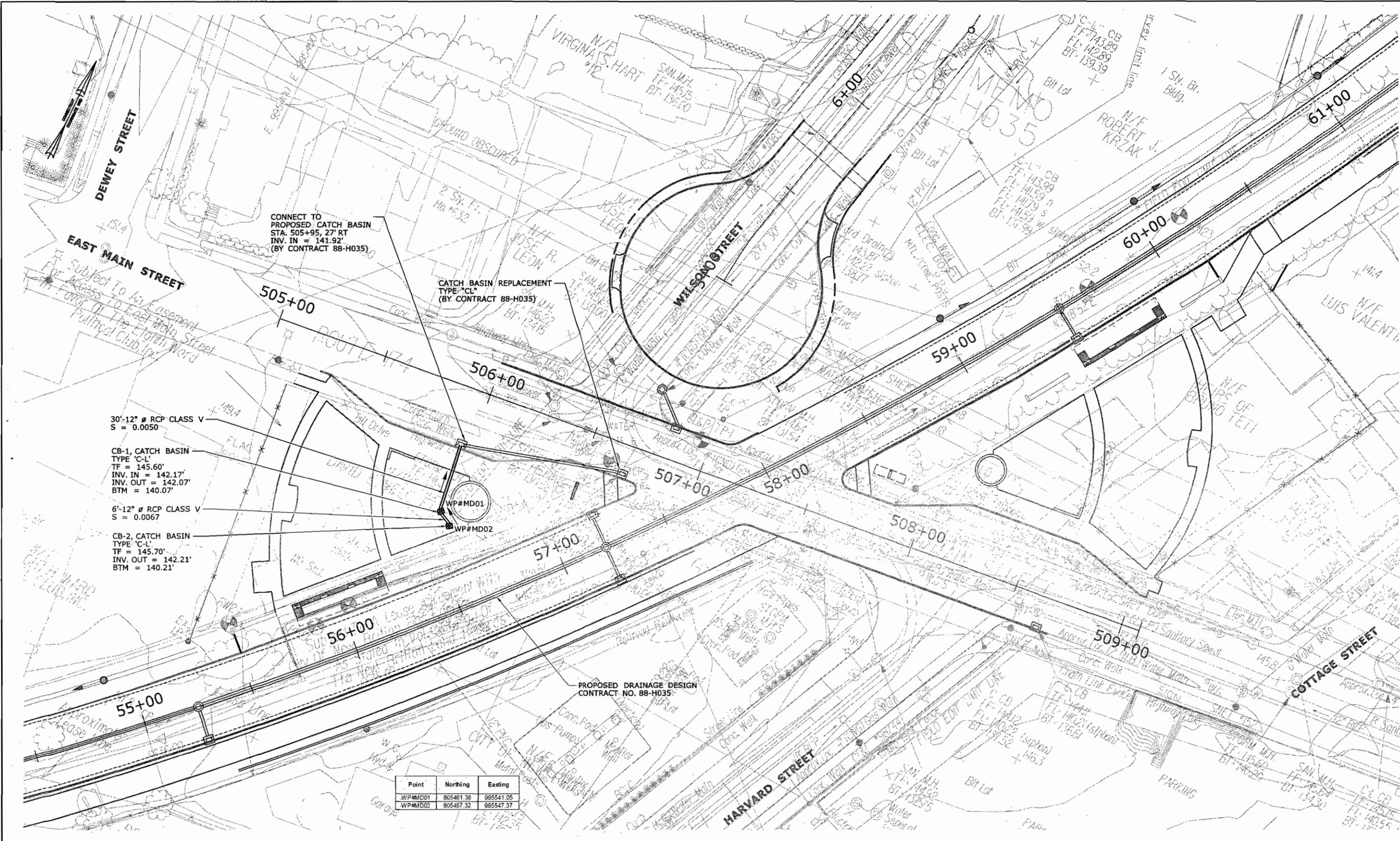
TOWN:
NEW BRITAIN

DRAWING TITLE:
**SEDIMENTATION AND
EROSION CONTROL**

PROJECT NO.
88-H039

DRAWING NO.
SED-E01

SHEET NO.



CONNECT TO PROPOSED CATCH BASIN STA. 505+95, 27' RT INV. IN = 141.92' (BY CONTRACT 88-H035)

CATCH BASIN REPLACEMENT TYPE "C-L" (BY CONTRACT 88-H035)

30'-12" ϕ RCP CLASS V S = 0.0050

CB-1, CATCH BASIN TYPE "C-L" TF = 145.60' INV. IN = 142.17' INV. OUT = 142.07' BTM = 140.07'

6'-12" ϕ RCP CLASS V S = 0.0067

CB-2, CATCH BASIN TYPE "C-L" TF = 145.70' INV. OUT = 142.21' BTM = 140.21'

PROPOSED DRAINAGE DESIGN CONTRACT NO. 88-H035

Point	Northing	Easting
WP#MD01	805461.38	995541.05
WP#MD02	805457.32	995547.37

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 6/22/2010

DESIGNER/DRAFTER:
EAD
CHECKED BY:
AGB
SCALE IN FEET
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SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK:
S E A CONSULTANTS
APPROVED BY: DATE:

PROJECT TITLE:
**NEW BRITAIN - HARTFORD
BUS RAPID TRANSIT STATIONS
EAST MAIN STREET**

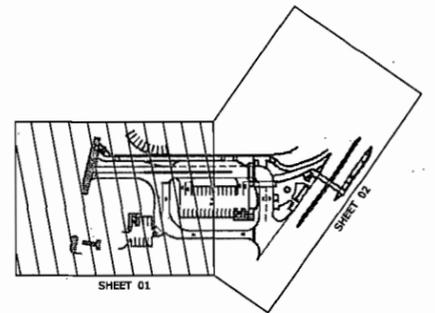
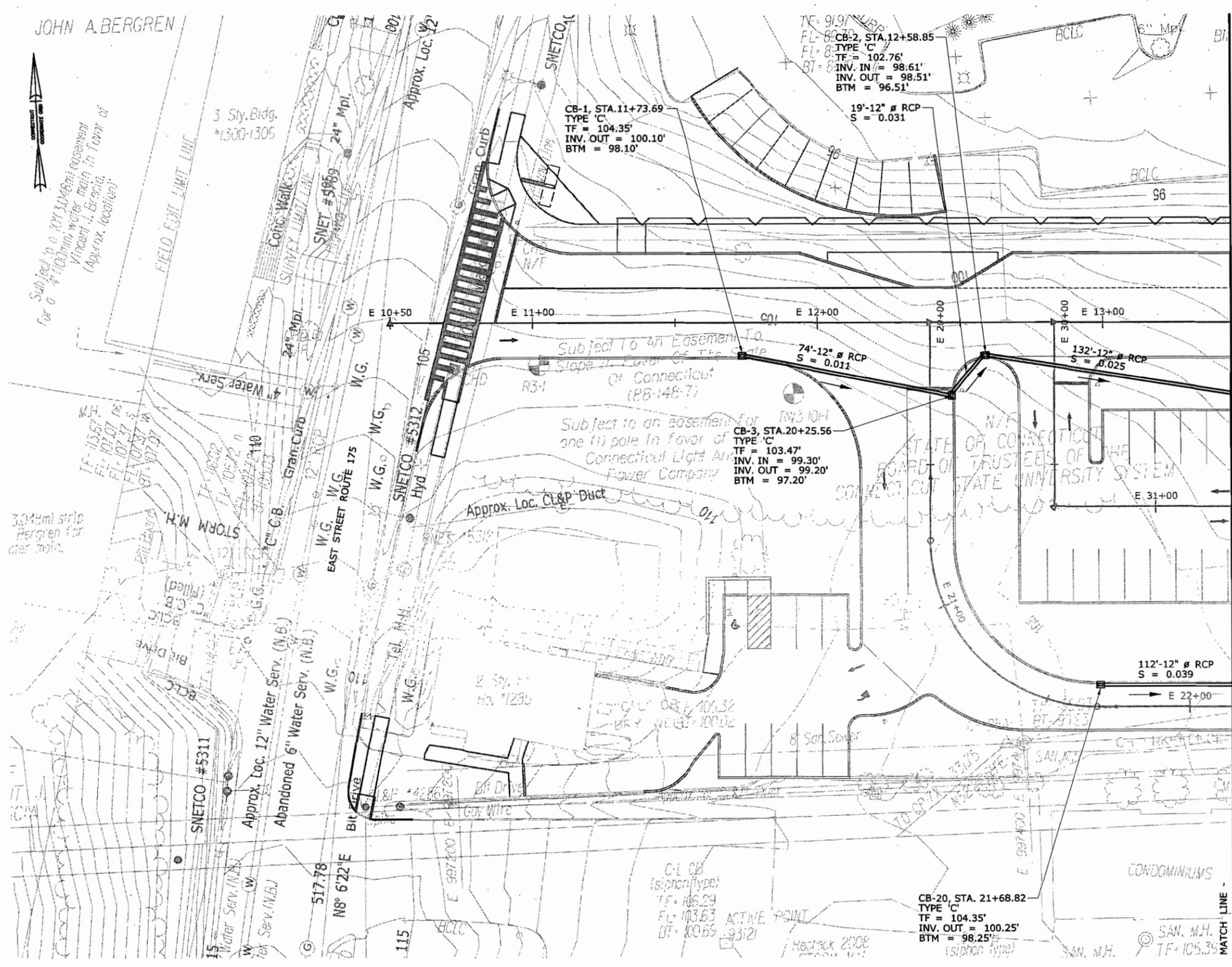
TOWN:
NEW BRITAIN
DRAWING TITLE:
DRAINAGE PLAN

PROJECT NO.
88-H039
DRAWING NO.
DRG-M01
SHEET NO.

JOHN A. BERGREN



Subject to a 10' (3.048m) easement
for a 4" (102mm) water main in favor of
Vincent J. Beracia
(Approx. location)



KEY PLAN

SEMI 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 Date: 6/22/2010

DESIGNER/DRAFTER:
EAD

CHECKED BY:
AGB

SCALE IN FEET
0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...FD_MSH_DRG_88H039_EAST-01.dgn

SIGNATURE/BLOCK:
S E A CONSULTANTS

APPROVED BY: _____ DATE: _____

PROJECT TITLE:
**NEW BRITAIN - HARTFORD
BUS RAPID TRANSIT STATIONS
EAST STREET**

TOWN:
NEW BRITAIN

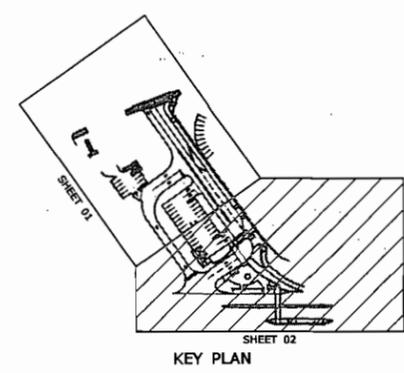
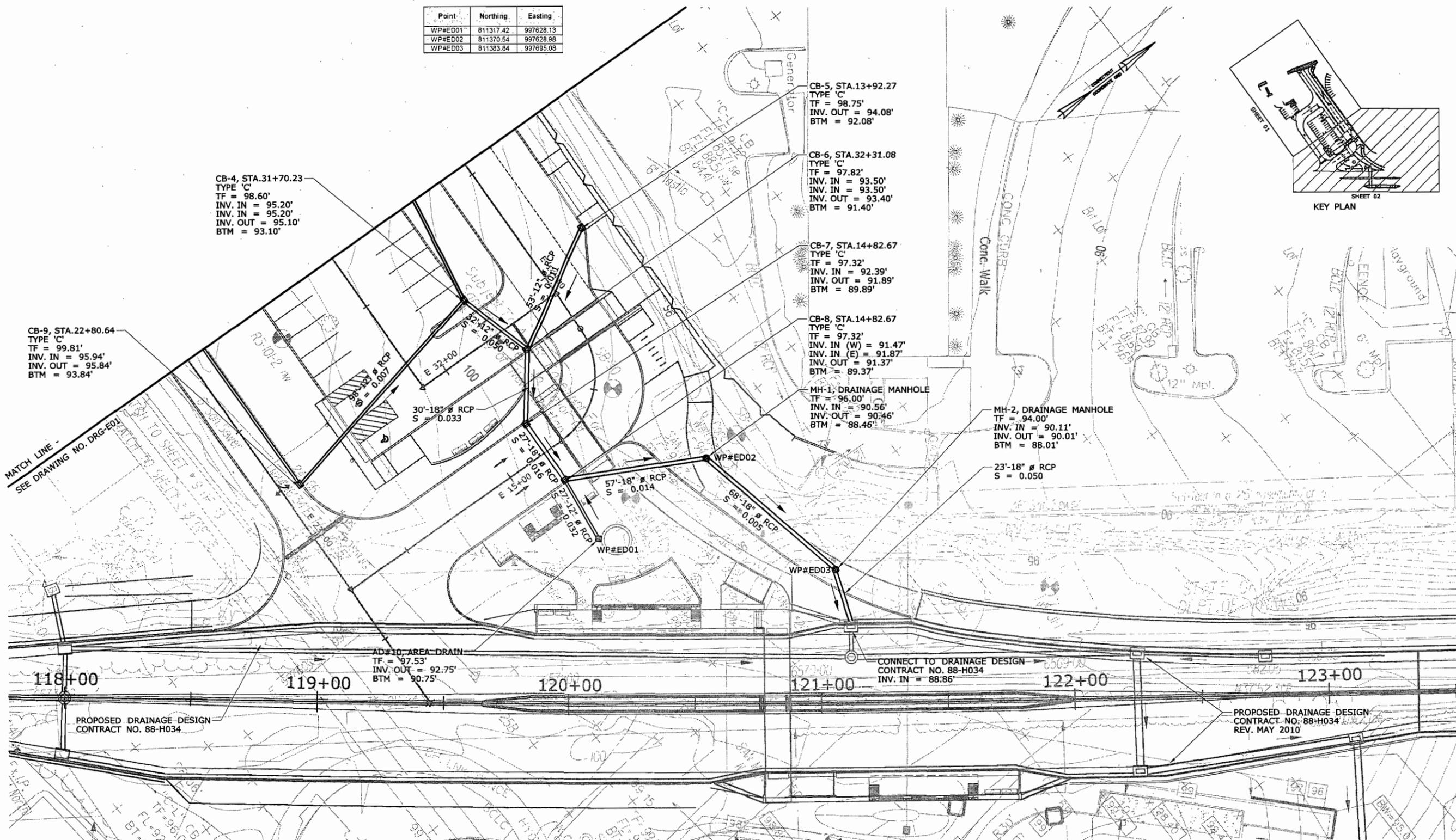
DRAWING TITLE:
DRAINAGE PLAN

PROJECT NO.
88-H039

DRAWING NO.
DRG-E01

SHEET NO.

Point	Northing	Easting
WP#ED01	811317.42	997628.13
WP#ED02	811370.54	997628.98
WP#ED03	811383.84	997695.08



CB-4, STA.31+70.23
TYPE 'C'
TF = 98.60'
INV. IN = 95.20'
INV. IN = 95.20'
INV. OUT = 95.10'
BTM = 93.10'

CB-9, STA.22+80.64
TYPE 'C'
TF = 99.81'
INV. IN = 95.94'
INV. OUT = 95.84'
BTM = 93.84'

CB-5, STA.13+92.27
TYPE 'C'
TF = 98.75'
INV. OUT = 94.08'
BTM = 92.08'

CB-6, STA.32+31.08
TYPE 'C'
TF = 97.82'
INV. IN = 93.50'
INV. IN = 93.50'
INV. OUT = 93.40'
BTM = 91.40'

CB-7, STA.14+82.67
TYPE 'C'
TF = 97.32'
INV. IN = 92.39'
INV. OUT = 91.89'
BTM = 89.89'

CB-8, STA.14+82.67
TYPE 'C'
TF = 97.32'
INV. IN (W) = 91.47'
INV. IN (E) = 91.87'
INV. OUT = 91.37'
BTM = 89.37'

MH-1, DRAINAGE MANHOLE
TF = 96.00'
INV. IN = 90.56'
INV. OUT = 90.46'
BTM = 88.46'

MH-2, DRAINAGE MANHOLE
TF = 94.00'
INV. IN = 90.11'
INV. OUT = 90.01'
BTM = 88.01'

23'-18" RCP
S = 0.050

AD#10, AREA DRAIN
TF = 97.53'
INV. OUT = 92.75'
BTM = 90.75'

CONNECT TO DRAINAGE DESIGN
CONTRACT NO. 88-H034
INV. IN = 88.86'

PROPOSED DRAINAGE DESIGN
CONTRACT NO. 88-H034
REV. MAY 2010

SEMI FINAL DESIGN REVIEW

DESIGNER/DRAFTER: EAD		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: S E A CONSULTANTS	PROJECT TITLE: NEW BRITAIN - HARTFORD BUS RAPID TRANSIT STATIONS EAST STREET	TOWN: NEW BRITAIN	PROJECT NO. 88-H039
CHECKED BY: AGB						
SCALE IN FEET 0 20 40 SCALE 1"=20'		FILENAME: ...FD_MSH.DRG.88H039_EAST-02.dgn		SHEET NO.		

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