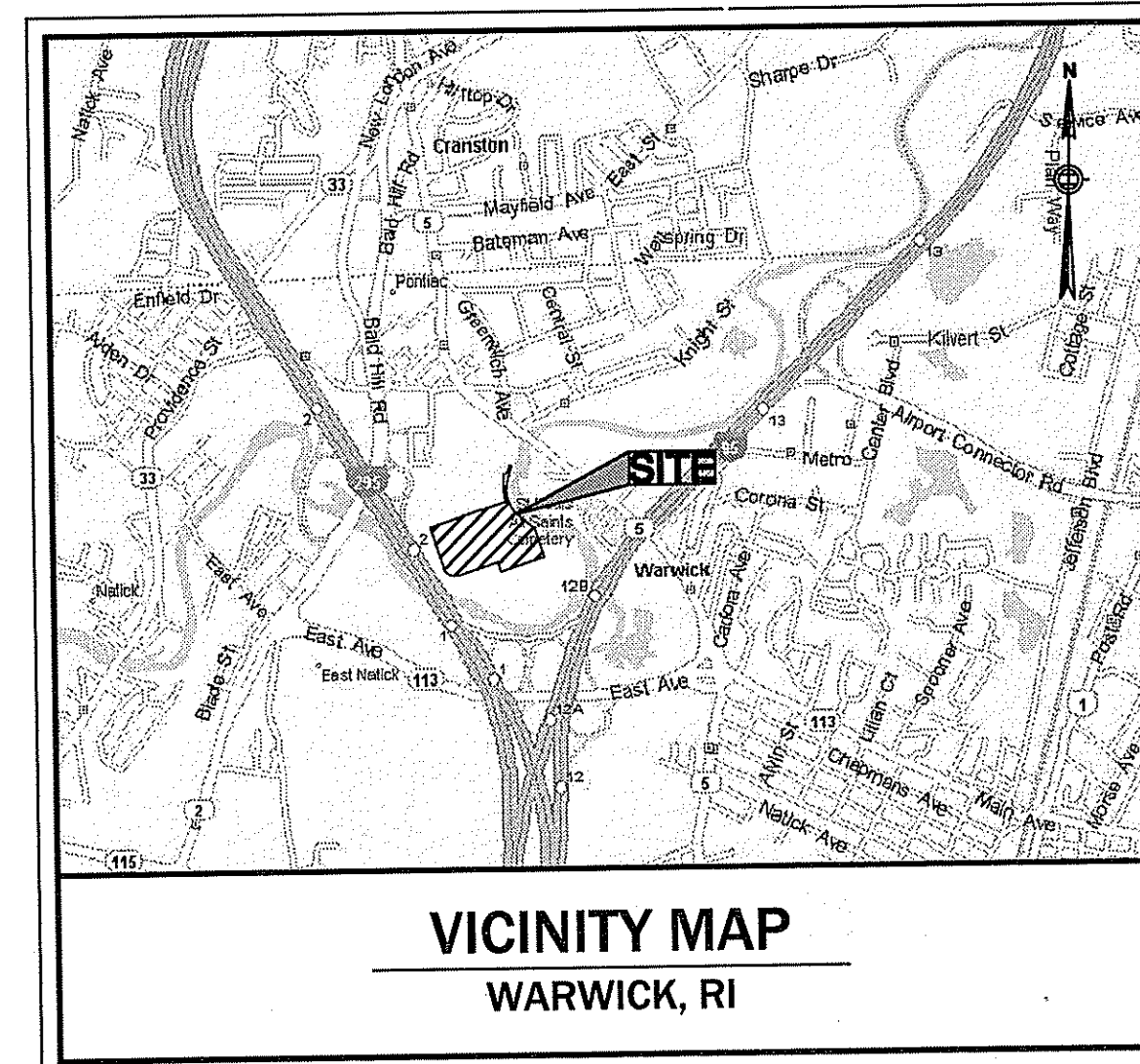


WARWICK MALL - FASHION STORE EXPANSION

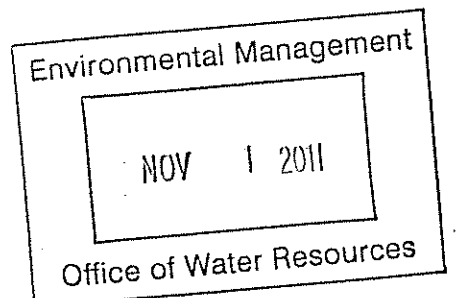
BALD HILL ROAD (ROUTE 2), WEST NATICK ROAD,
LAMBERT L. LIND HIGHWAY (ROUTE 5), & GREENWICH AVE.
WARWICK, RHODE ISLAND
2011

DRAWING DATE	LAST REVISION	DRAWING NUMBER	DRAWING DESCRIPTION	SHEET NO.
07/25/2011	08/08/2011	SPE - 1A	OVERALL SITE PLAN PARKING EXHIBIT	SHEET 1 OF 11
06/20/2011	07/25/2011	1	EXISTING CONDITIONS PLAN	SHEET 2 OF 11
08/08/2011	10/26/2011	NS - 1	ABBREVIATION, LEGEND AND NOTES	SHEET 3 OF 11
08/08/2011	10/26/2011	C - 1	DEMOLITION AND EROSION CONTROL PLAN	SHEET 4 OF 11
08/08/2011	10/26/2011	C - 2	GRADING AND DRAINAGE PLAN	SHEET 5 OF 11
08/08/2011	10/14/2011	C - 3	UTILITY PLAN	SHEET 6 OF 11
08/08/2011	10/14/2011	C - 4	PARKING AND TRAFFIC CONTROL PLAN	SHEET 7 OF 11
08/08/2011		C - 5	EROSION CONTROL DETAILS	SHEET 8 OF 11
08/08/2011	10/14/2011	C - 6	DRAINAGE AND UTILITY DETAILS	SHEET 9 OF 11
08/08/2011	10/26/2011	C - 7	DRAINAGE DETAILS	SHEET 10 OF 11
08/08/2011	10/14/2011	C - 8	PARKING & TRAFFIC CONTROL DETAILS	SHEET 11 OF 11



PREPARED FOR:

WARWICK MALL OP, LLC AND WARWICK MALL, LLC
C/O MARK T. BRENNAN & CO.
400 BALD HILL ROAD
WARWICK, R.I. 02886
T (401) 732-0800
F (401) 732-1222



PREPARED BY:

**RJO'CONNELL
& ASSOCIATES, INC.**

CIVIL ENGINEERS & LAND PLANNERS
80 MONTVALE AVENUE
STONEHAM, MA 02180
PHONE: 781-279-0180
FAX: 781-279-0173
ATTN: TOM DICICCO P.E. EXT. 119

CONSULTANTS:

LOCAL COUNSEL

FLAHERTY, BUTTERFIELD & COSTELLO
ATTORNEYS AND COUNSELORS AT LAW
33 COLLEGE HILL ROAD
SUITE 200
WARWICK, RHODE ISLAND 02886
(401) 822-1800
(401) 822-1879 FAX
ATTN: DANIEL K. FLAHERTY

SURVEYOR

GAROFALO & ASSOCIATES, INC.
85 CORLISS STREET
PROVIDENCE, RI 02940
(401) 273-6000
(401) 273-1000 FAX
ATTN: SAMUEL A. WHITE, JR., PLS

GEOTECHNICAL

NORTHEAST GEOTECHNICAL
65 OLD DANIELSON PIKE
FOSTER, RI 02825
(508) 598-3510
(401) 808-0927 MOBILE
ATTN: JAMES M. HANDANYAN

ENVIRONMENTAL/WETLANDS

ENVIRONMENTAL RESOURCES MANAGEMENT
399 BOYLSTON STREET, 6TH FLOOR
BOSTON, MA 02116
(617) 646-7812
(617) 267-6447 FAX
ATTN: ANN MCMENEMY

GOVERNMENT/UTILITY CONTACTS:

POLICE DEPT.

99 VETERANS MEMORIAL DRIVE
WARWICK, RI 02886
PHONE: (401) 468-4200
FAX: (401) 468-4327

PLANNING DEPT.

WARWICK CITY HALL ANNEX
3275 POST ROAD
WARWICK, RI 02886
PHONE: (401) 738-2000 EXT. 6289
FAX: (401) 732-9522

PUBLIC WORKS

925 SANDY LANE
WARWICK, RI 02889
PHONE: (401) 738-2000 EXT. 6500
FAX: (401) 732-5208

WATER DEPT.

935 SANDY LANE
WARWICK, RI 02889
PHONE: (401) 738-2000 EXT. 6601
FAX: (401) 738-2000

TELEPHONE/COMMUNICATIONS

VERIZON
85 HIGH STREET - 3RD FLOOR
PAWTUCKET, RI 02860
PHONE: (401) 727-9599

FIRE DEPT.

140 VETERANS MEMORIAL DRIVE
WARWICK, RI 02886
PHONE: (401) 468-4000
FAX: (401) 468-4043

ZONING

3275 POST ROAD
WARWICK, RI 02886
PHONE: (401) 738-2000
FAX: (401) 738-2000

SEWER AUTHORITY

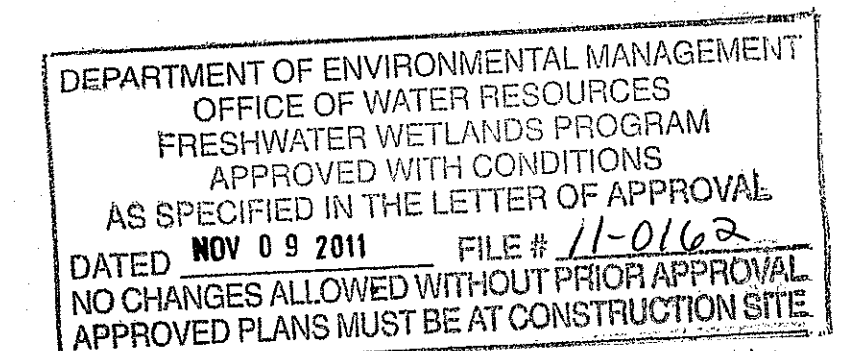
125 ARTHUR W. DIVINE BLVD.
WARWICK, RI 02886
PHONE: (401) 739-4949
FAX: (401) 739-1414

GAS COMPANY

NATIONAL GRID (FORMERLY NEW ENGLAND GAS COMPANY)
100 WEYBOSSET STREET
PROVIDENCE, RI 02903
PHONE: (401) 831-8800
FAX: (401) 331-1150

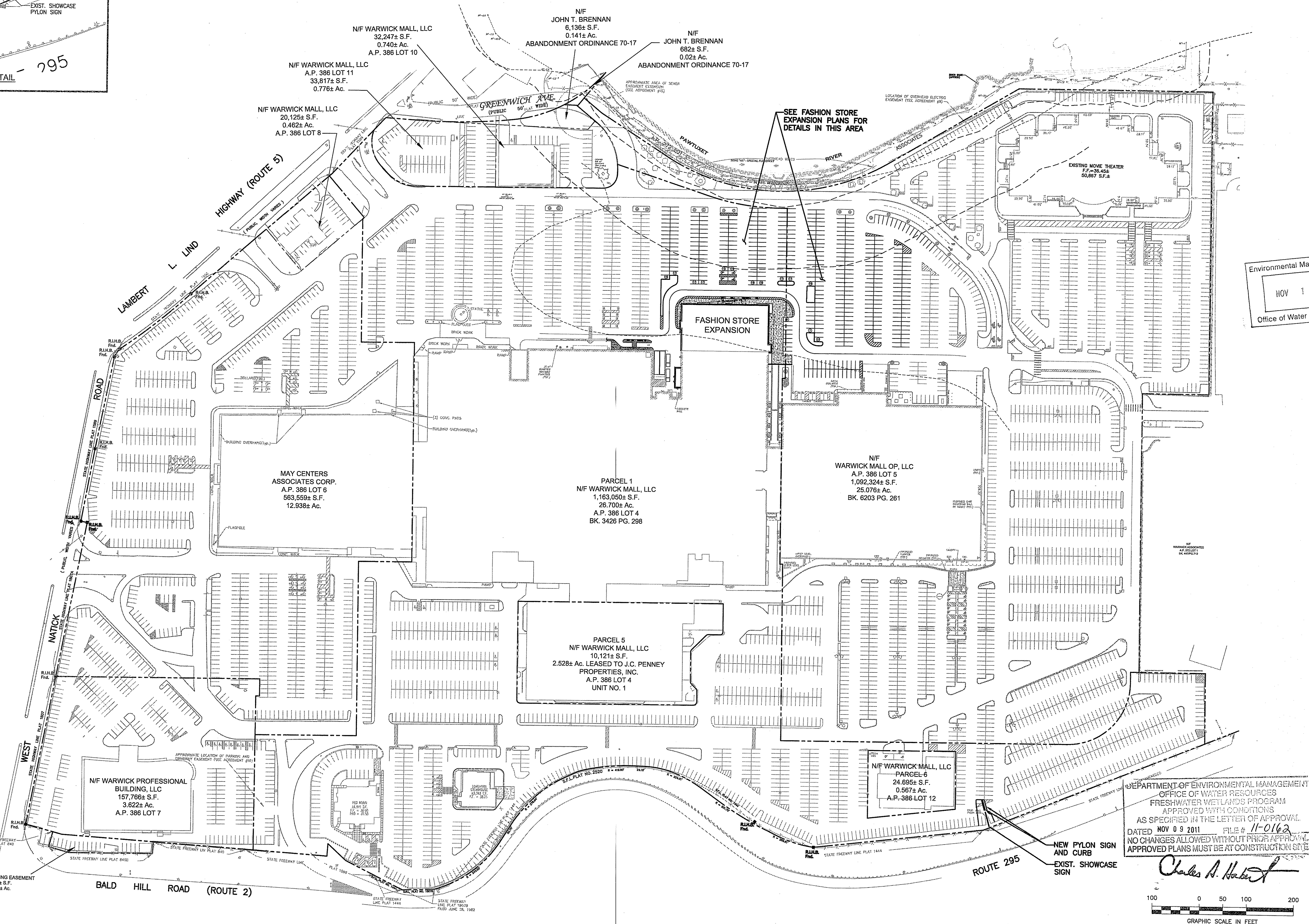
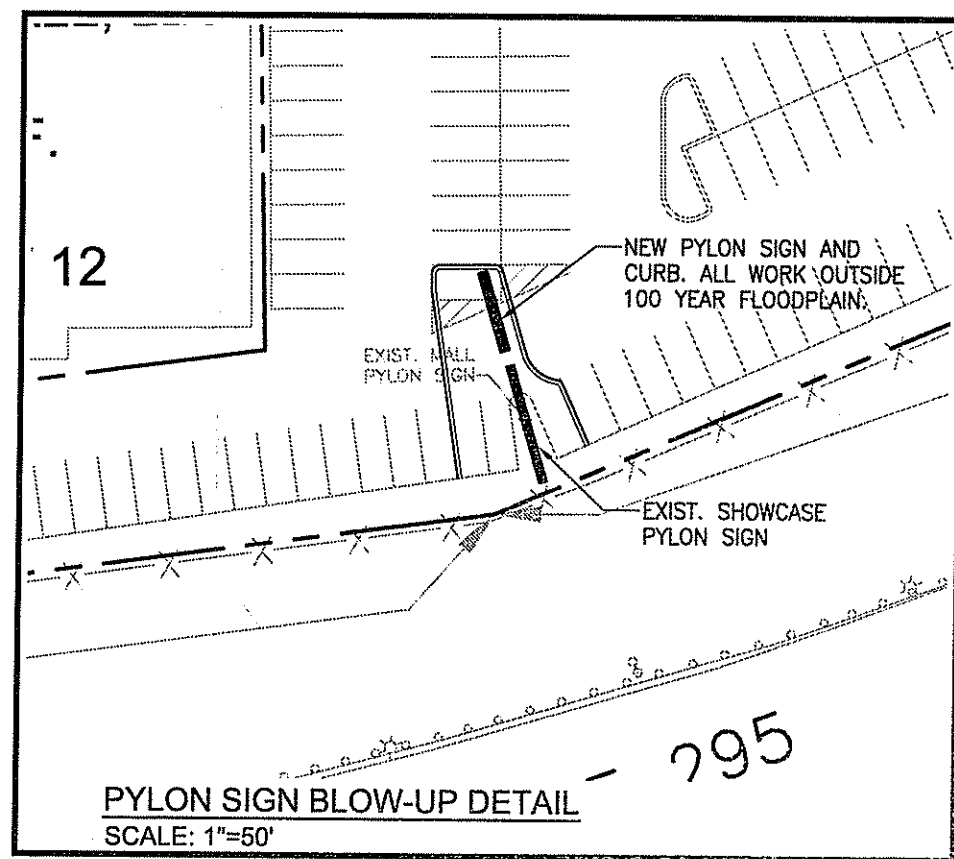
ELECTRIC COMPANY

NATIONAL GRID
280 MELROSE STREET
PROVIDENCE, RI 02907
PHONE: (401) 784-7414



Charles A. Hadden

<input type="checkbox"/> NOT FOR CONSTRUCTION
<input type="checkbox"/> ISSUED FOR REVIEW
<input type="checkbox"/> ISSUED FOR PERMIT
<input type="checkbox"/> ISSUED FOR BID/PRICING
<input type="checkbox"/> ISSUED FOR CONSTRUCTION



Environmental Management
NOV 1 2011
Office of Water Resources

No.	Date	Revision
1	08/08/11	ISSUED TO ZONING BOARD
2	07/25/11	ISSUED FOR LOCAL PERMIT (ZONING BOARD)

Seal: THOMAS M. DICICCO
No. 7613
REGISTERED PROFESSIONAL ENGINEER
CIVIL
10-31-11
Designed by: RWS/TMD
Drawn by: MCR
Checked by: TMD
Scale: 1"=100'
Date: 07/25/2011

Prepared for:
Warwick Mall
WARWICK, RI

Prepared by:
RJO'CONNELL & ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173

Project Name:
FASHION STORE EXPANSION
Drawing Name:
OVERALL SITE PLAN
PARKING EXHIBIT

Drawing No.: SHEET 1 OF 11
SPE-1A
Project No.: 11049
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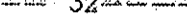




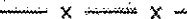






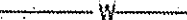

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 9 2011 FILE # 11-0162
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Harte




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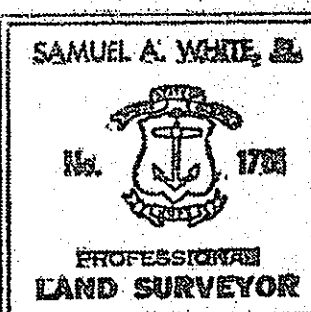
LOCUS MAP
N.T.S.

LEGEND & ABBREVIATIONS

- | | |
|--------|--------------------------|
| N/F | NOW OR FORMERLY |
| A.P. | ASSESSOR PLAT |
| S.F. | SQUARE FEET |
| AC. | ACRES |
| BIT. | BITUMINOUS |
| CONC. | CONCRETE |
| C.I. | CAST IRON |
| R.C.P. | REINFORCED CONCRETE PIPE |
| V.C. | VITRIFIED CLAY |
| P.V.C. | POLYVINYL CHLORIDE |
| DOM. | DOMESTIC WATER |
| FIRE | FIRE SERVICE |
| BOR. | BORINGS |
| DBL. | DOUBLE |
| INV. | INVERTS |
| (TYP.) | TYPICAL |
| FC | FACE OF CURB |
| TC | TOP OF CURB |
| FFE. | FINISH FLOOR ELEVATION |
| GFE. | GARAGE FLOOR ELEVATION |

- | | |
|---|------------------------|
|  | LOCUS PROPERTY LINE |
|  | ASSESSORS LINE |
|  | EASEMENT LINE |
|  | CONTOUR (5') |
|  | CONTOUR (1') |
|  | SPOT GRADE |
|  | GUARD RAIL |
|  | CHAIN LINK FENCE |
|  | CONCRETE WALL |
|  | SEWER LINE |
|  | DRAIN LINE |
|  | WATER LINE |
|  | OVERHEAD WIRES |
|  | GAS LINE |
|  | TELEPHONE LINE |
|  | ELECTRIC LINE |
|  | TREE LINE |
|  | WETLAND LINE |
|  | TREE (VARIOUS SPECIES) |

- | | |
|---|------------------------|
|  | TREE (VARIOUS SPECIES) |
| ① TMH | TELEPHONE MANHOLE |
| ② EMH | ELECTRIC MANHOLE |
| ③ SMH | SEWER MANHOLE |
| □ CB | CATCH BASIN |
| ④ DMH | DRAIN MANHOLE |
| ⦿ HYD | FIRE HYDRANT |
| +WG | WATER GATE |
| +WSO | WATER SHUT OFF |
| +GG | GAS GATE |
| ⬤ LP | LIGHT POLE |
|  | MONITORING WELLS |
|  | HANDICAP SPACE |
| SIGN | |
| UTILITY POLE | |
| BOLLARD | |
| WETLAND FLAGS | |

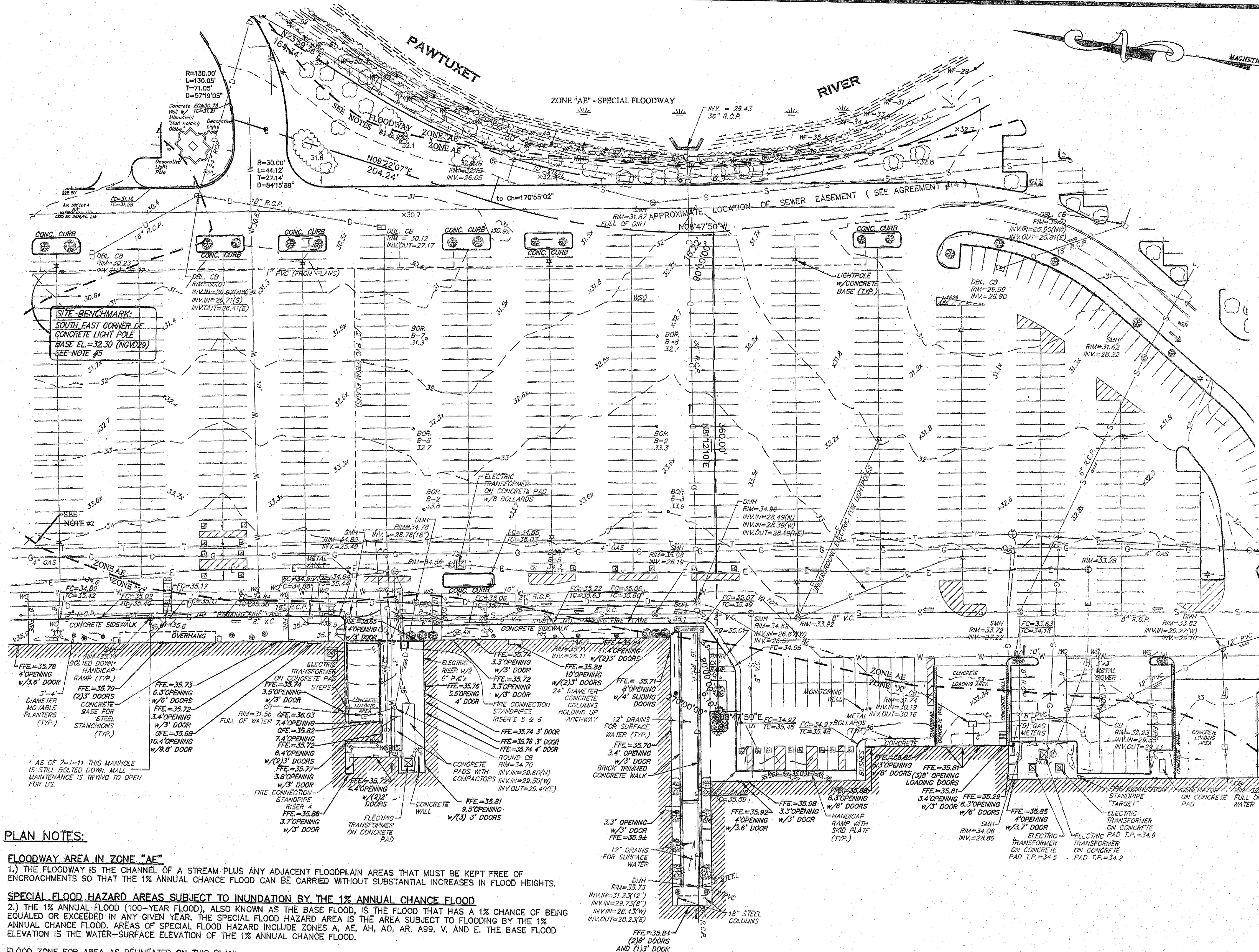


CERTIFICATION:

THIS SURVEY AND PLAN SUBSTANTIALLY CONFORMS TO THE FOLLOWING CLASS STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

TOPOGRAPHIC SURVEY - CLASS III

BY: Samuel A. White 1781 7-25-
PROFESSIONAL LAND SURVEYOR REG. NO. DATE



PLAN NOTES:

FLOODWAY AREA IN ZONE "AE"

1.) THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENTS SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

2.) THE 1% ANNUAL FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE 1% ANNUAL CHANCE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALLED OR EXCEEDED IN ANY GIVEN YEAR. THE SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD. AREAS OF SPECIAL FLOOD HAZARD INCLUDE ZONES A, AE, AH, AO, AR, A99, V, AND E. THE BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD.

FLOOD ZONE FOR AREA AS DELINEATED ON THIS PLAN:

ZONE AE (BASE FLOOD ELEVATION DETERMINED) = EL. 34.0 NAVD 88 EL. 34.84 NGVD 29

OTHER FLOOD AREAS:

ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN). AS SHOWN ON F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE CITY WARWICK, RHODE ISLAND, KENT COUNTY, COMMUNITY PANEL NO. 445409 0126 G, EFFECTIVE DATE DECEMBER 3, 2010.

3.) THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION @ 1-888-344-7233)

4.) PROJECT BENCHMARK -- MONUMENT H-30, ELEVATION 66.01 NGVD 1929.

5) TO CONVERT NGVD 1929 VERTICAL DATUM TO NAVD 1988 VERTICAL DATUM - LOWER ALL VERTICAL INFORMATION BY 0.84'

PROJECT BENCHMARK:
H-30 NGVD29 ELEVATION 66.01
H-30 NAVD88 ELEVATION 65.17

SITE BENCHMARK:
NGVD29 ELEVATION 32.30
NAVD88 ELEVATION 31.46

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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NOV 09 2011 FILE # 11-0162
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hoxby

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS
SURVEYORS AND PLANNERS
ENVIRONMENTAL SCIENTISTS

Garofalo & Associates © These drawings are the property of the engineer/surveyor and have been prepared for the owner, for this project at this site and are not to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

55 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

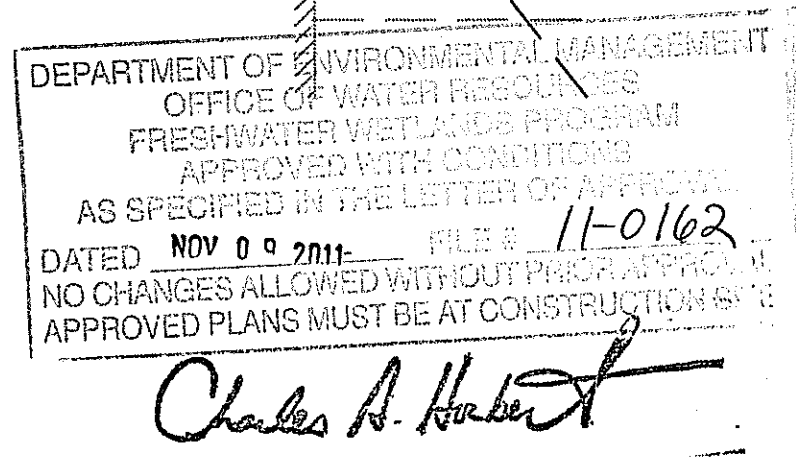
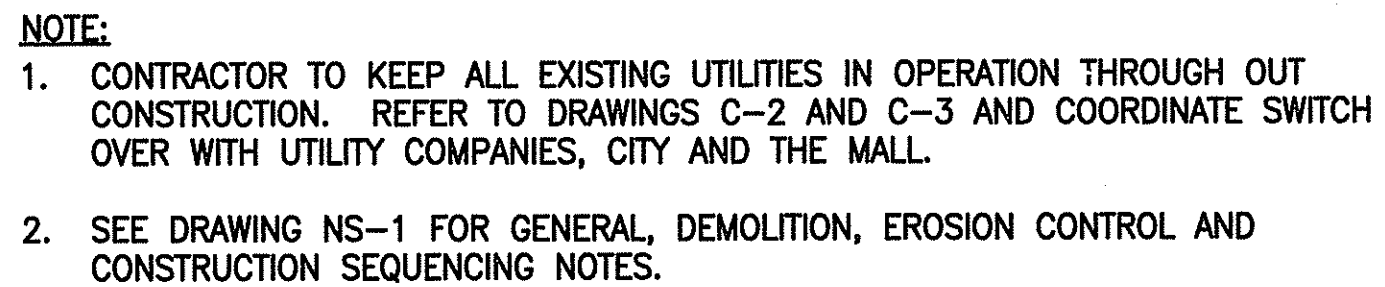
JOB NO.
6470-01

DWG. NO.
6470-01-EC

DRAWN BY T.E.H.
CHECKED
APPROVED S.A.W.
DATE: JUNE 20, 2

SHEET 2 OF 11

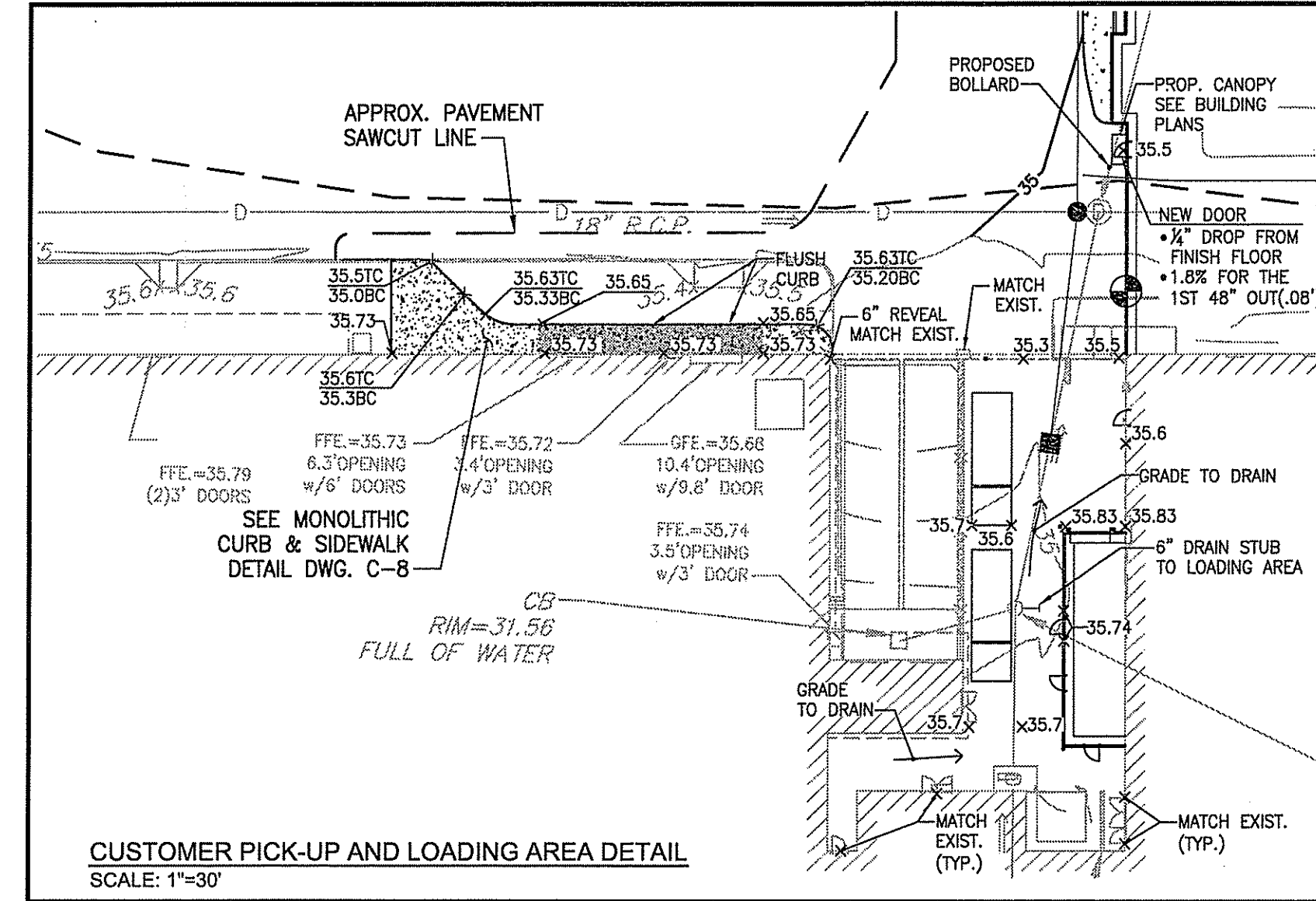
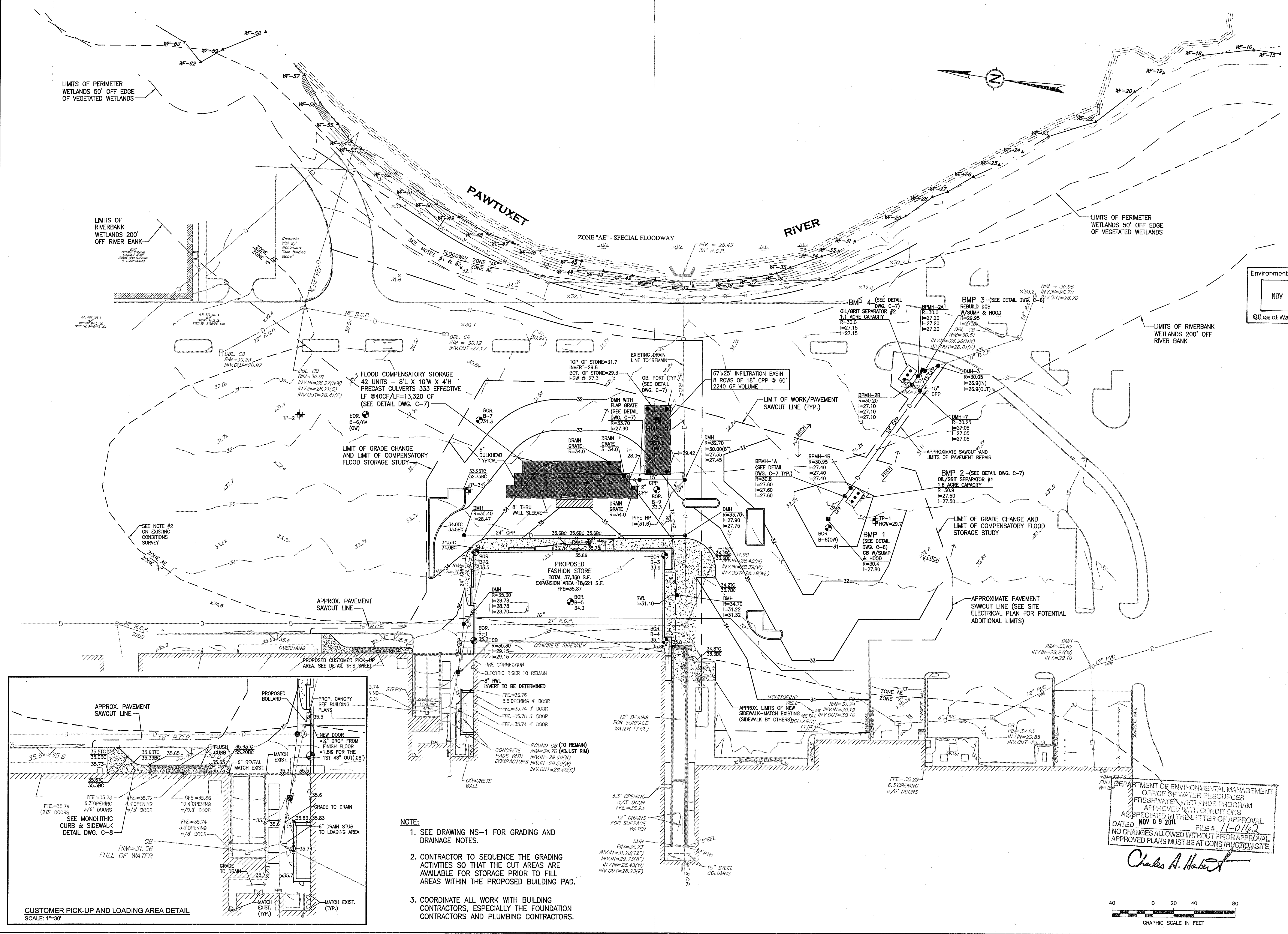
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Drawing No.: **SHEET 4 OF 11**
C-1
Project No.: 11049

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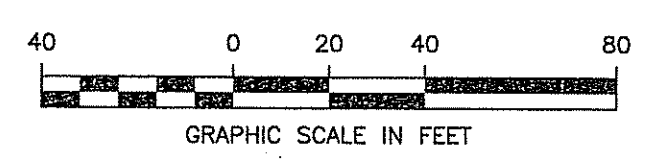
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- NOTE:**
- SEE DRAWING NS-1 FOR GRADING AND DRAINAGE NOTES.
 - CONTRACTOR TO SEQUENCE THE GRADING ACTIVITIES SO THAT THE CUT AREAS ARE AVAILABLE FOR STORAGE PRIOR TO FILL AREAS WITHIN THE PROPOSED BUILDING PAD.
 - COORDINATE ALL WORK WITH BUILDING CONTRACTORS, ESPECIALLY THE FOUNDATION CONTRACTORS AND PLUMBING CONTRACTORS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 9 2011 FILE # 11-0162
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harbert



Management		Resources	
2011			
</			

Environmental Management
Office of Water Resources
NOV 1 2011

Sent: THOMAS M. DICICCO
No. 7613
REGISTERED PROFESSIONAL ENGINEER
CIVIL
Thomas M. DiCicco
10-3411

Designed by: RWS/TMD
Drawn by: MCR
Checked by: TMD
Scale: 1"=40'
Date: 08/08/2011

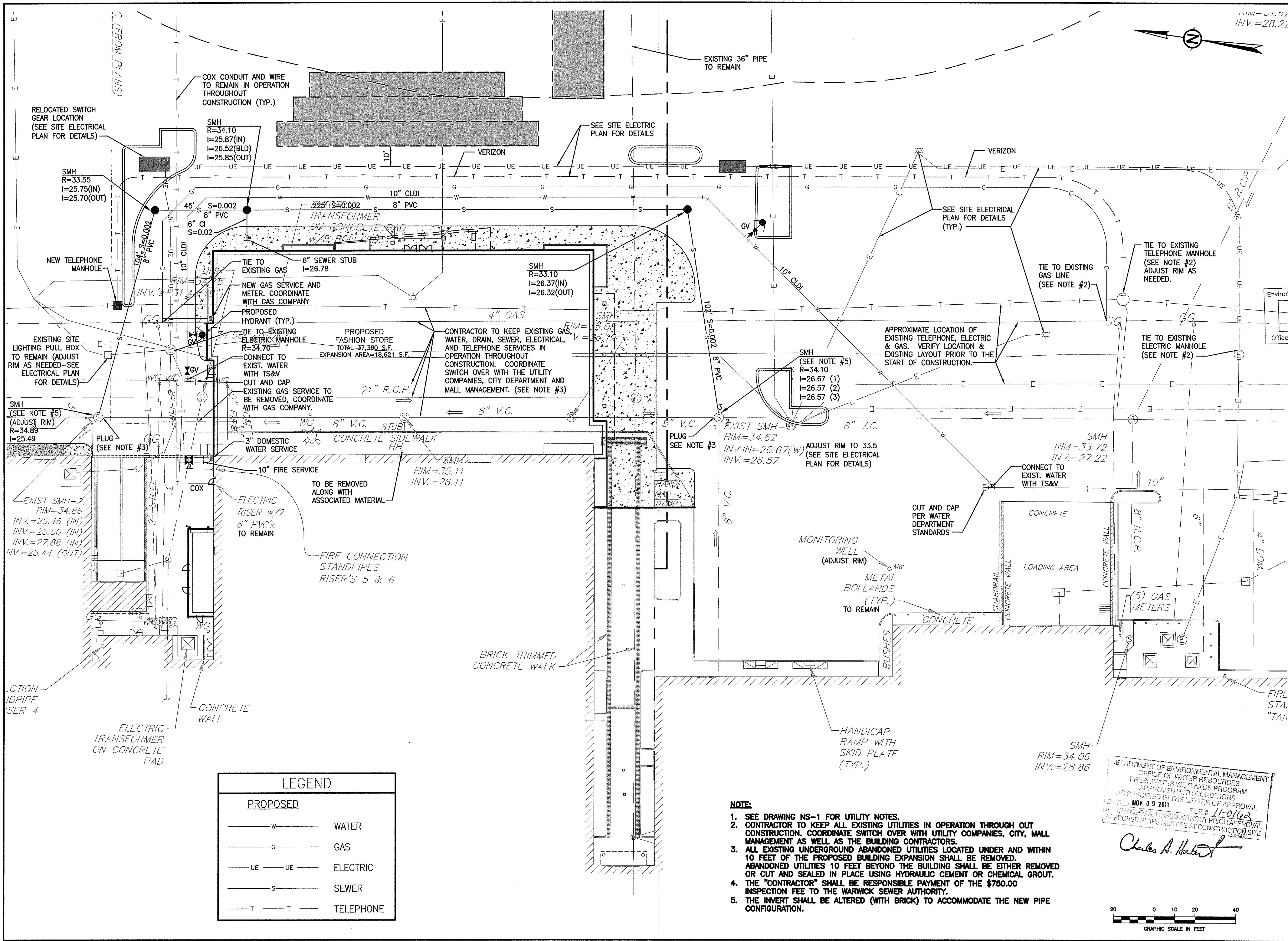
Prepared for:

Warwick Mall
WARWICK, RI

Prepared by:
RJO'CONNELL & ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173

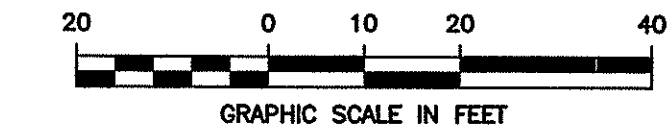
Project Name:
FASHION STORE EXPANSION
Drawing Name:
GRADING AND DRAINAGE PLAN

Drawing No.: **SHEET 5 OF 11**
C-2
Project No.: 11049



LEGEND	
PROPOSED	
— W —	WATER
— G —	GAS
— UE — UE —	ELECTRIC
— S —	SEWER
— T — T —	TELEPHONE

- NOTE:**
1. SEE DRAWING NS-1 FOR UTILITY NOTES.
 2. CONTRACTOR TO KEEP ALL EXISTING UTILITIES IN OPERATION THROUGH OUT CONSTRUCTION. COORDINATE SWITCH OVER WITH UTILITY COMPANIES, CITY, MALL MANAGEMENT AS WELL AS THE BUILDING CONTRACTORS.
 3. ALL EXISTING UNDERGROUND ABANDONED UTILITIES LOCATED UNDER AND WITHIN 10 FEET OF THE PROPOSED BUILDING EXPANSION SHALL BE REMOVED. ABANDONED UTILITIES 10 FEET BEYOND THE BUILDING SHALL BE EITHER REMOVED OR CUT AND SEALED IN PLACE USING HYDRAULIC CEMENT OR CHEMICAL GROUT.
 4. THE "CONTRACTOR" SHALL BE RESPONSIBLE PAYMENT OF THE \$750.00 INSPECTION FEE TO THE WARWICK SEWER AUTHORITY.
 5. THE INVERT SHALL BE ALTERED (WITH BRICK) TO ACCOMMODATE THE NEW PIPE CONFIGURATION.



11/11-01.02
INV.=28.22

North Arrow

Environmental Management
Office of Water Resources
NOV 1 2011

No.	Date	Revision
1	10/14/11	RE-DESIGNED FOR APPROVAL #1
2	10/17/11	ISSUED FOR WARWICK SEWER AUTHORITY REVIEW
3	10/17/11	ISSUED TO H-GRD
4	09/09/11	ISSUED TO BDM

Seal: THOMAS M. DICICCO
No. 7613
REGISTERED PROFESSIONAL ENGINEER
CIVIL
10-31-11

Designed by: TMD/RWS
Drawn by: MCR
Checked by: TMD
Scale: 1"=20'
Date: 08/08/2011

Prepared for:
Warwick Mall
WARWICK, RI

Prepared by:
RJO'CONNELL & ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173

Project Name:
FASHION STORE EXPANSION
Drawing Name:
UTILITY PLAN

Drawing No.: **SHEET 6 OF 11**
C-3
Project No.: **11049**

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LIMITS OF PERIMETER
WETLANDS 50' OFF EDGE
OF VEGETATED WETLANDS

LIMITS OF RIVERBANK
WETLANDS 200' OFF
RIVER BANK

LIMITS OF PERIMETER
WETLANDS 50' OFF EDGE
OF VEGETATED WETLANDS

LIMITS OF RIVERBANK
WETLANDS 200' OFF
RIVER BANK

PAWTUXET

RIVER

ZONE "AE" - SPECIAL FLOODWAY

SEE NOTES
FLOODWAY ZONE "AE"
#1 & #2

CRACK SEAL, SEAL
COAT AND RE-STRIPE
EXISTING SPACES, (TYP.)

LIMIT OF NEW
PAVEMENT (TYP.)

LIMIT OF GRADING

ELECTRIC
STRUCTURE LOCATION
(AREA=±554 S.F.)

SEE NOTE #2
ON EXISTING
CONDITIONS
SURVEY

EXIST. AREA=94 S.F.
TO BE REMOVED
PROPOSED
FASHION STORE
TOTAL 37,360 S.F.
EXPANSION AREA=18,821 S.F.

PROPOSED LANDSCAPING WITHIN NEW ISLANDS SUBJECT TO
PLAN APPROVAL SATISFACTORY TO THE CITY'S LANDSCAPE
ARCHITECT. PLEASE NOTE THAT THE FASHION STORE
EXPANSION INCREASES THE LANDSCAPE AREA OVER
EXISTING CONDITIONS BY APPROX. 2,166 S.F.
(2,801 S.F. PROP. ISLAND - 94 S.F. EXIST. ISLAND)

PROPOSED FASHION STORE
EXPANSION LOADING AREA
CONCRETE COMPACTORS
(PADS BY OTHERS)
CONCRETE PADS WITH
COMPACTORS
CONCRETE WALL

BRICK TRIMMED
CONCRETE WALK

3.3' OPENING
W/3' DOOR
FTE=33.94

HANDICAP
RAMP WITH
SKID PLATE
(TYP.)

FTE=35.20
6.3' OPENING
W/6' DOORS

HEAVY DUTY PAVEMENT
STANDARD DUTY PAVEMENT

NOTE:
SEE DRAWING NS-1 AND DRAWING C-8 FOR PARKING AND
TRAFFIC CONTROL AND PAVEMENT NOTES AND DETAILS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 03 2011 FILE # 11-0162
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harber

20 0 10 20 40
GRAPHIC SCALE IN FEET

Environmental Management
NOV 11 2011
Office of Water Resources

Seal: THOMAS M. DiCICCO
No. 7813
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

Designed by: RWS/TMD
Drawn by: MCR
Checked by: TMD
Scale: 1"=40'
Date: 08/08/2011

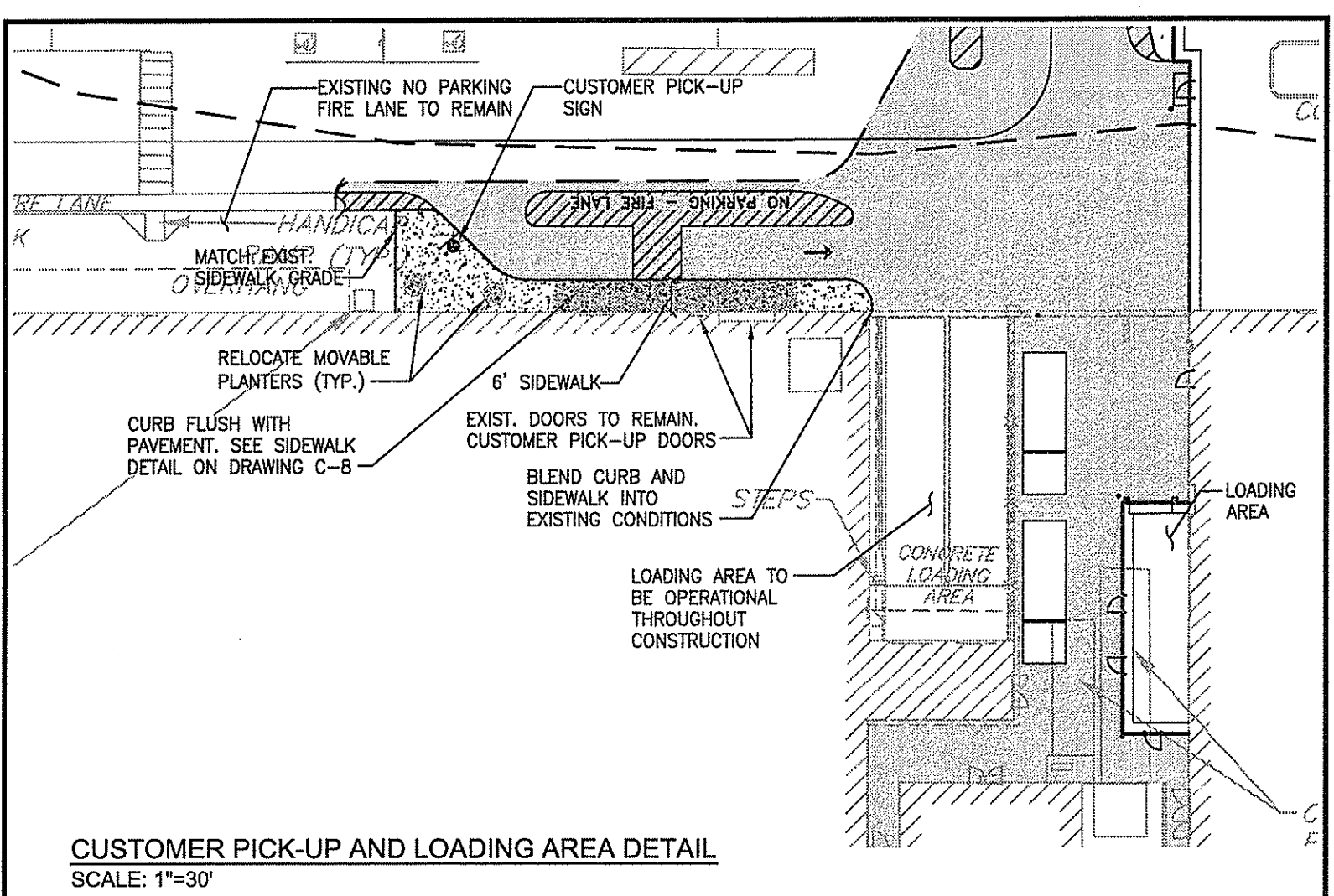
Prepared for:
Warwick Mall
WARWICK, RI

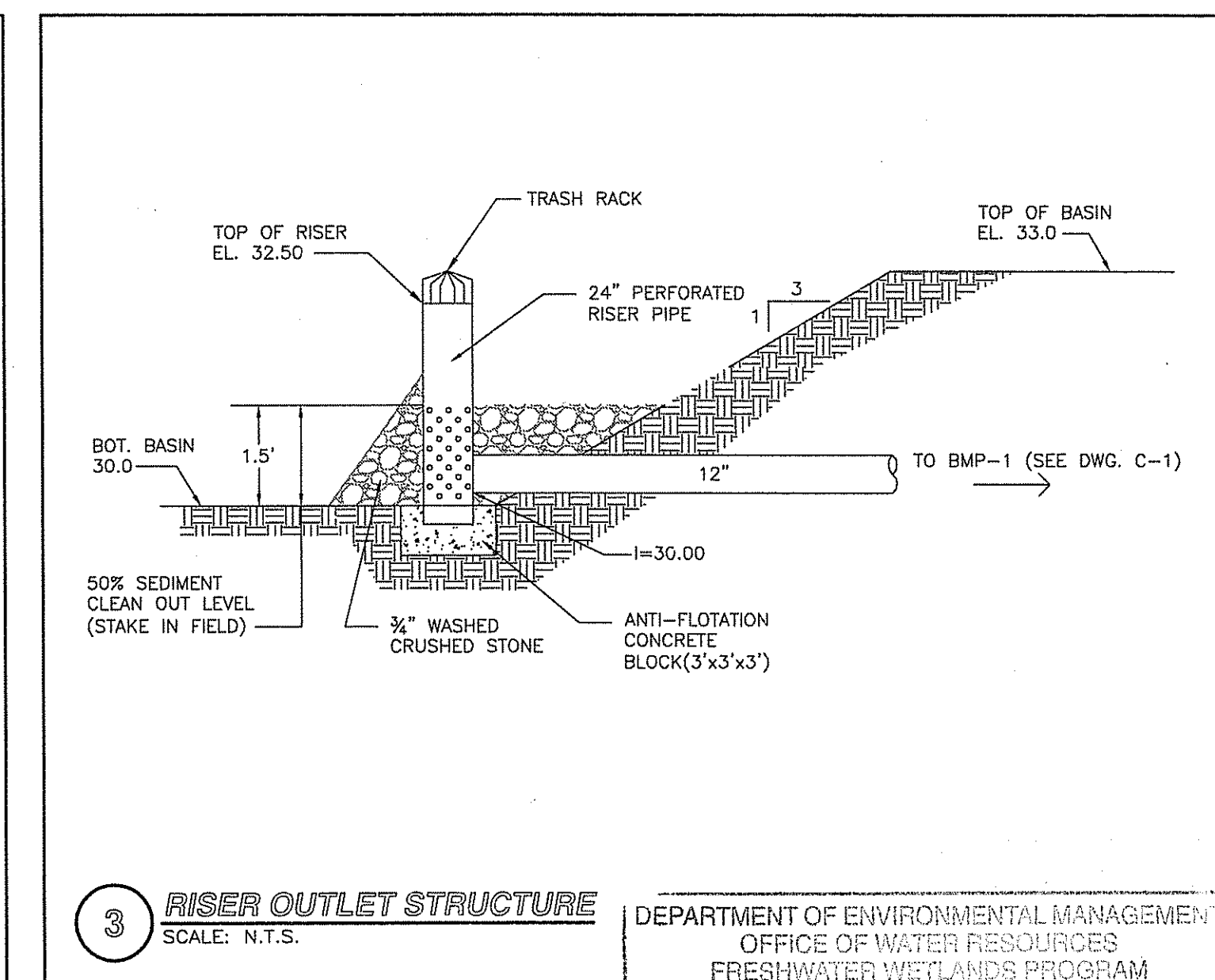
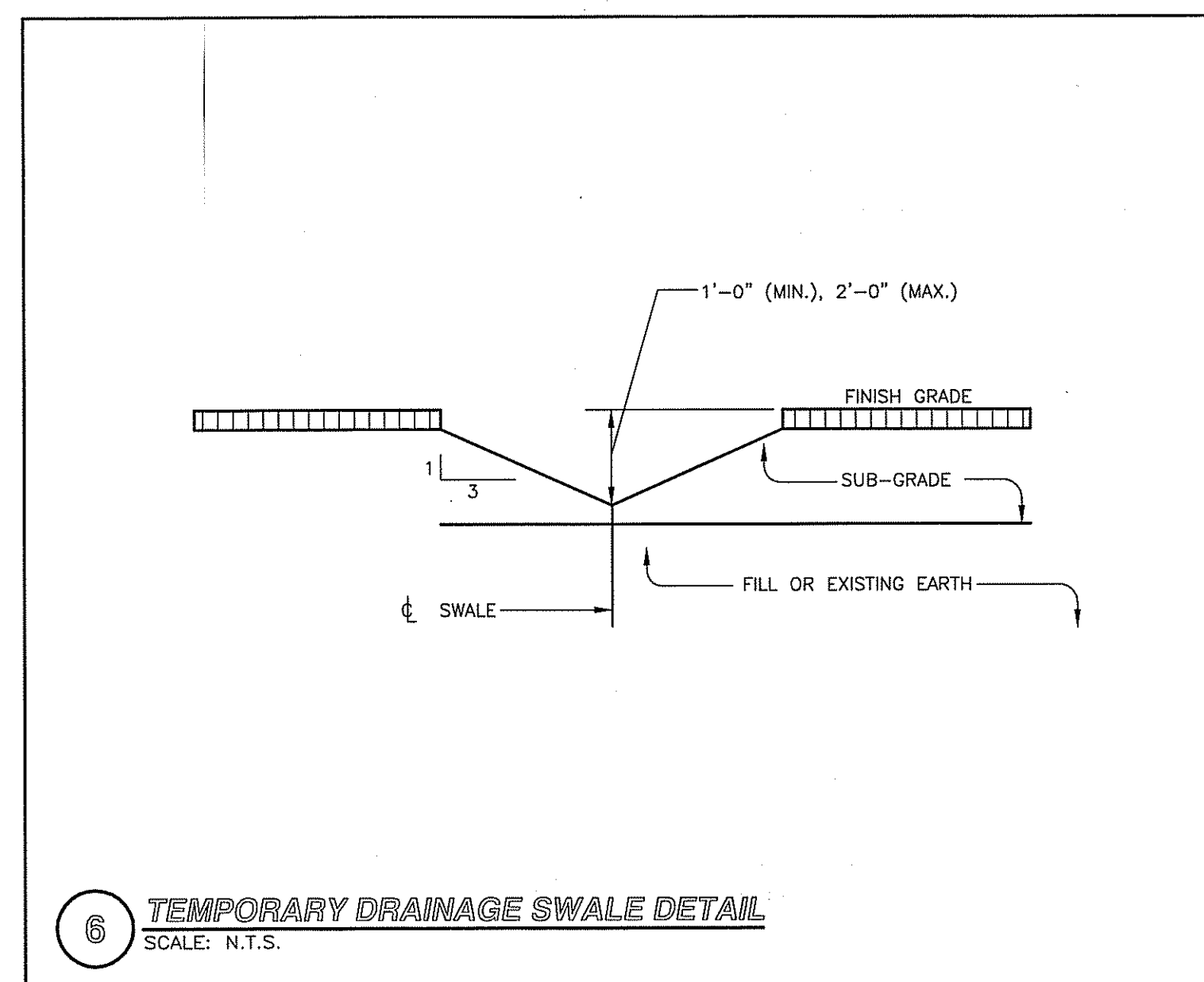
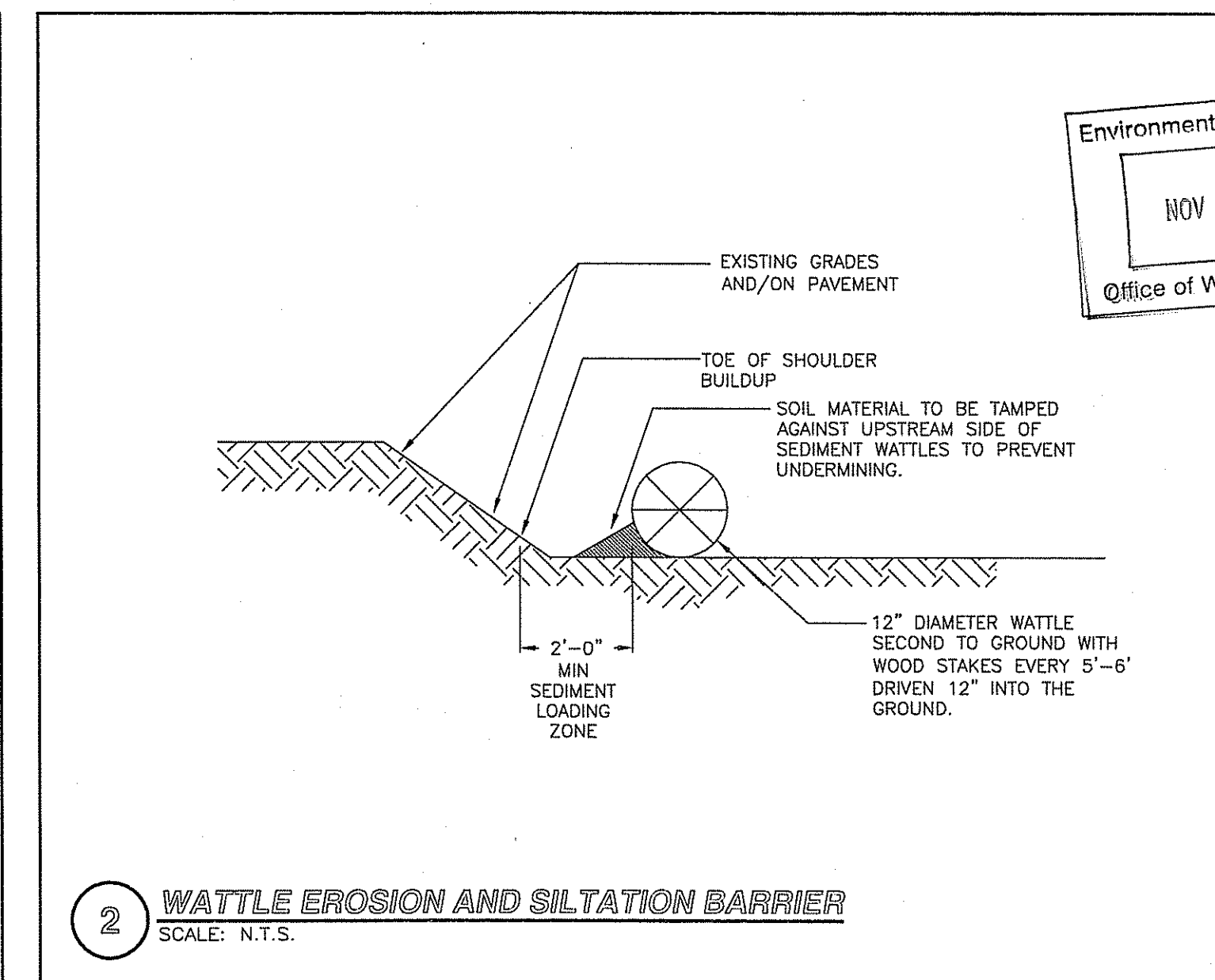
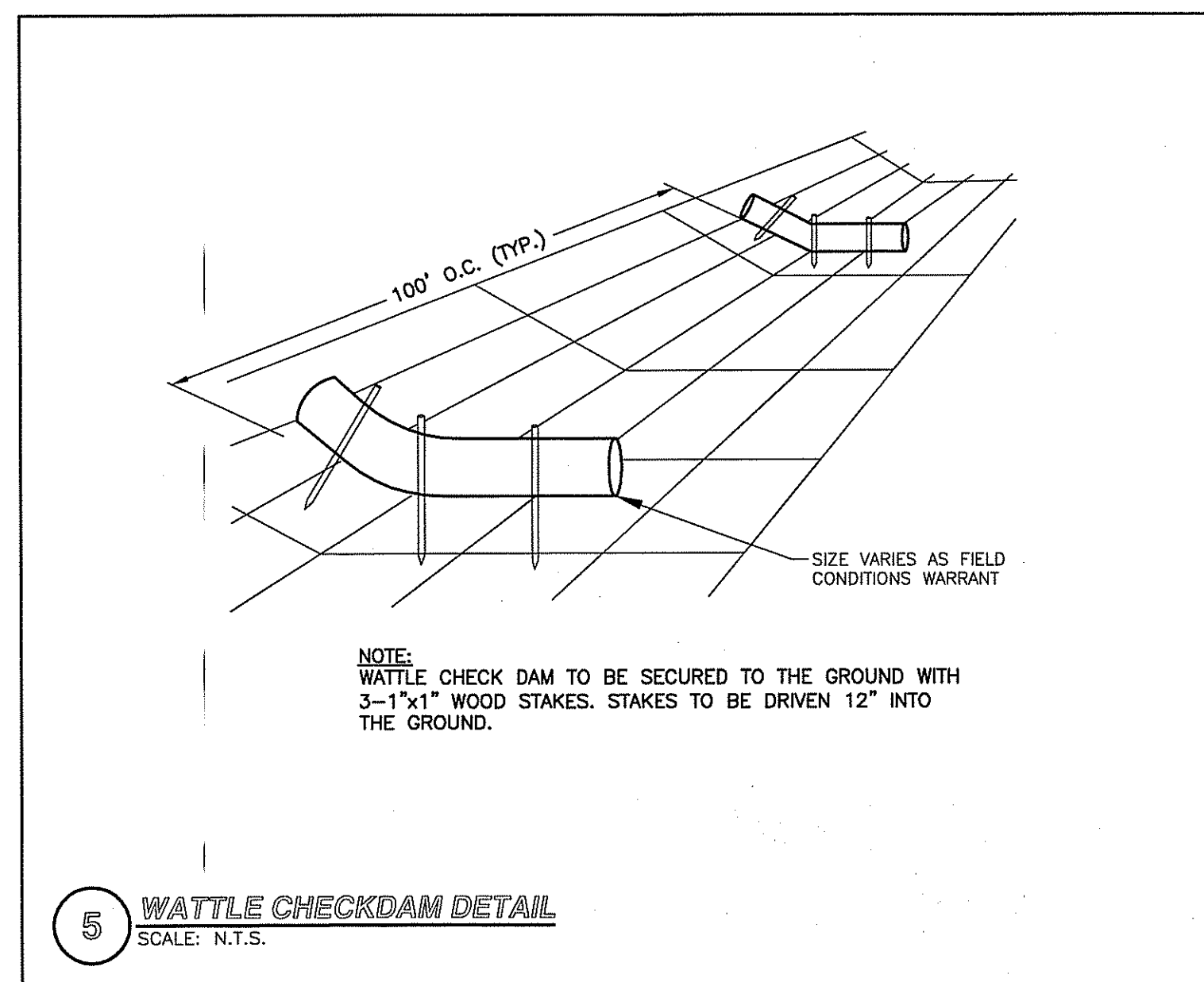
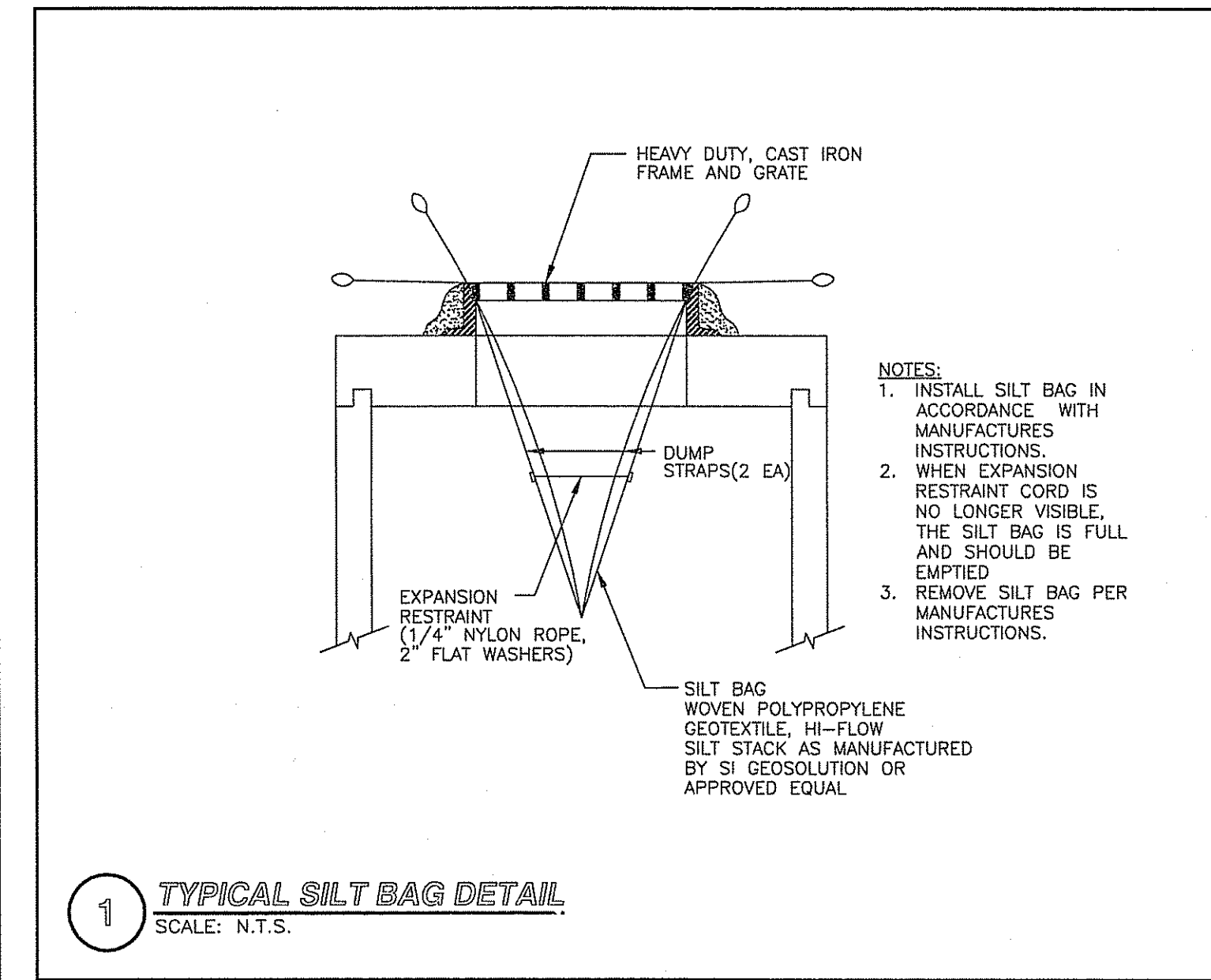
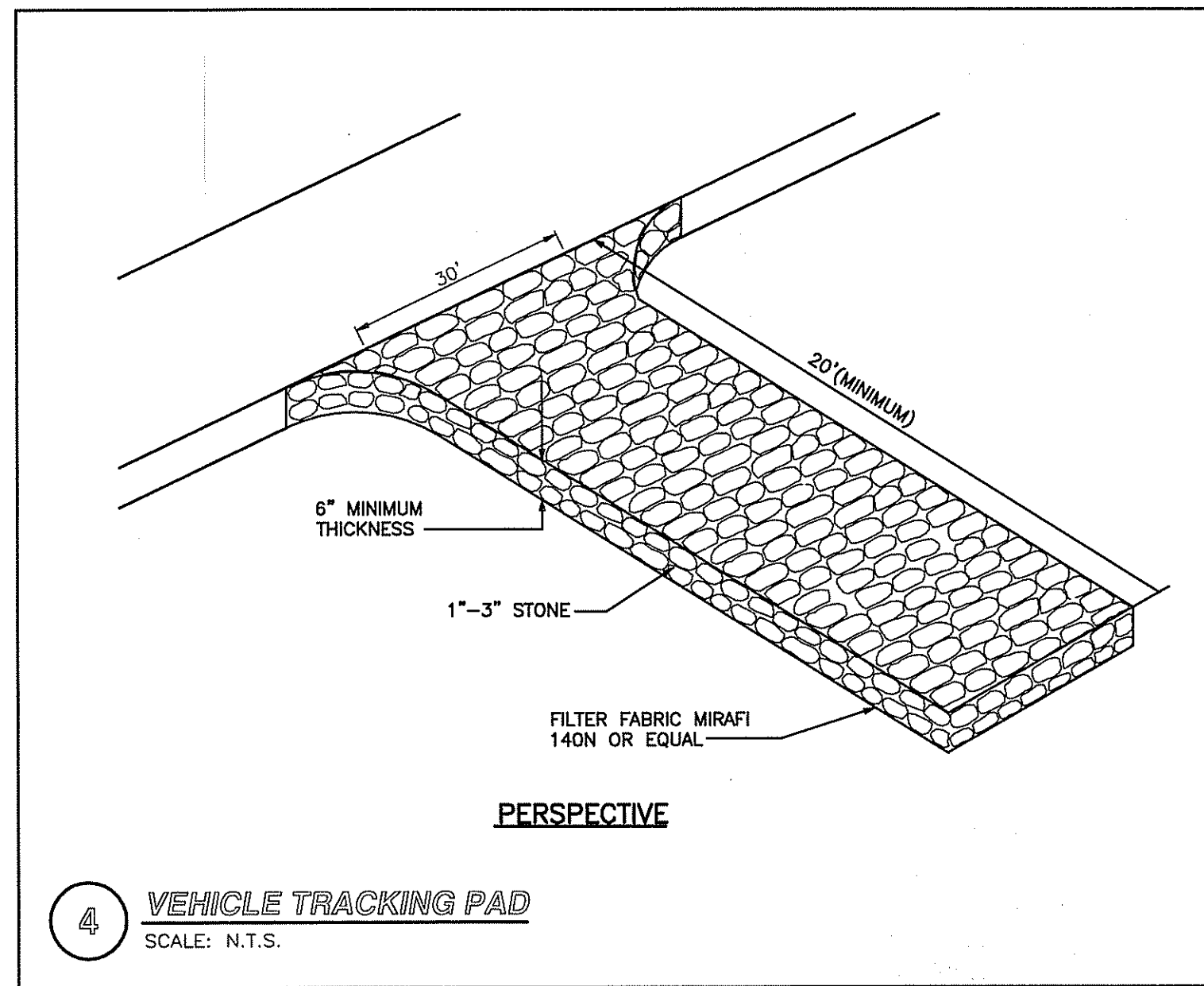
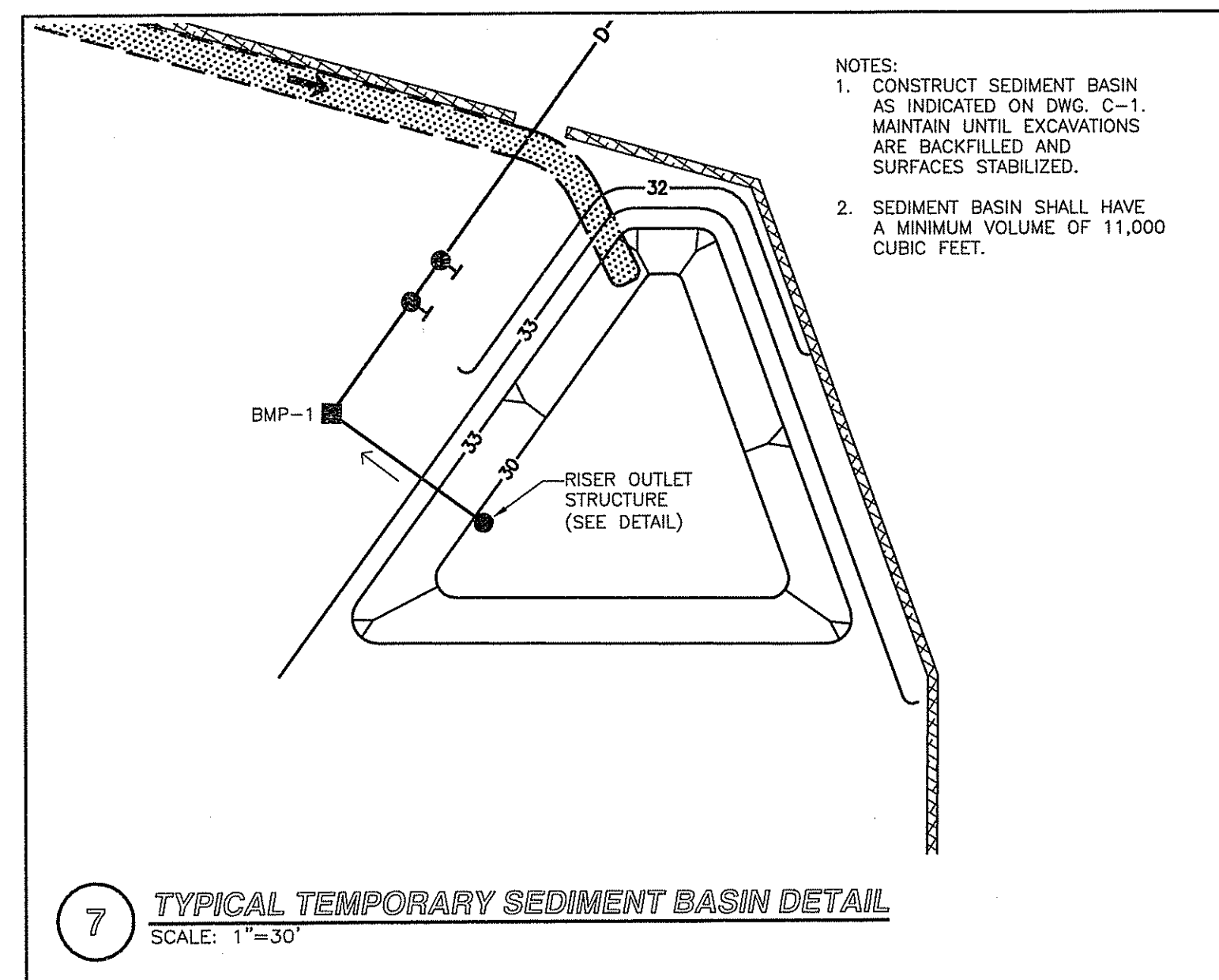
Prepared by:
RJO'CONNELL
& ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS
& LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173

Project Name:
FASHION STORE
EXPANSION
Drawing Name:
PARKING AND
TRAFFIC CONTROL
PLAN

Drawing No.: SHEET 7 OF 11
C-4
Project No.: 11049

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 09 2011 FILE # 11-0162
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harte

Environmental Management
NOV 2011
Office of Water Resources

No.	Revision	Date
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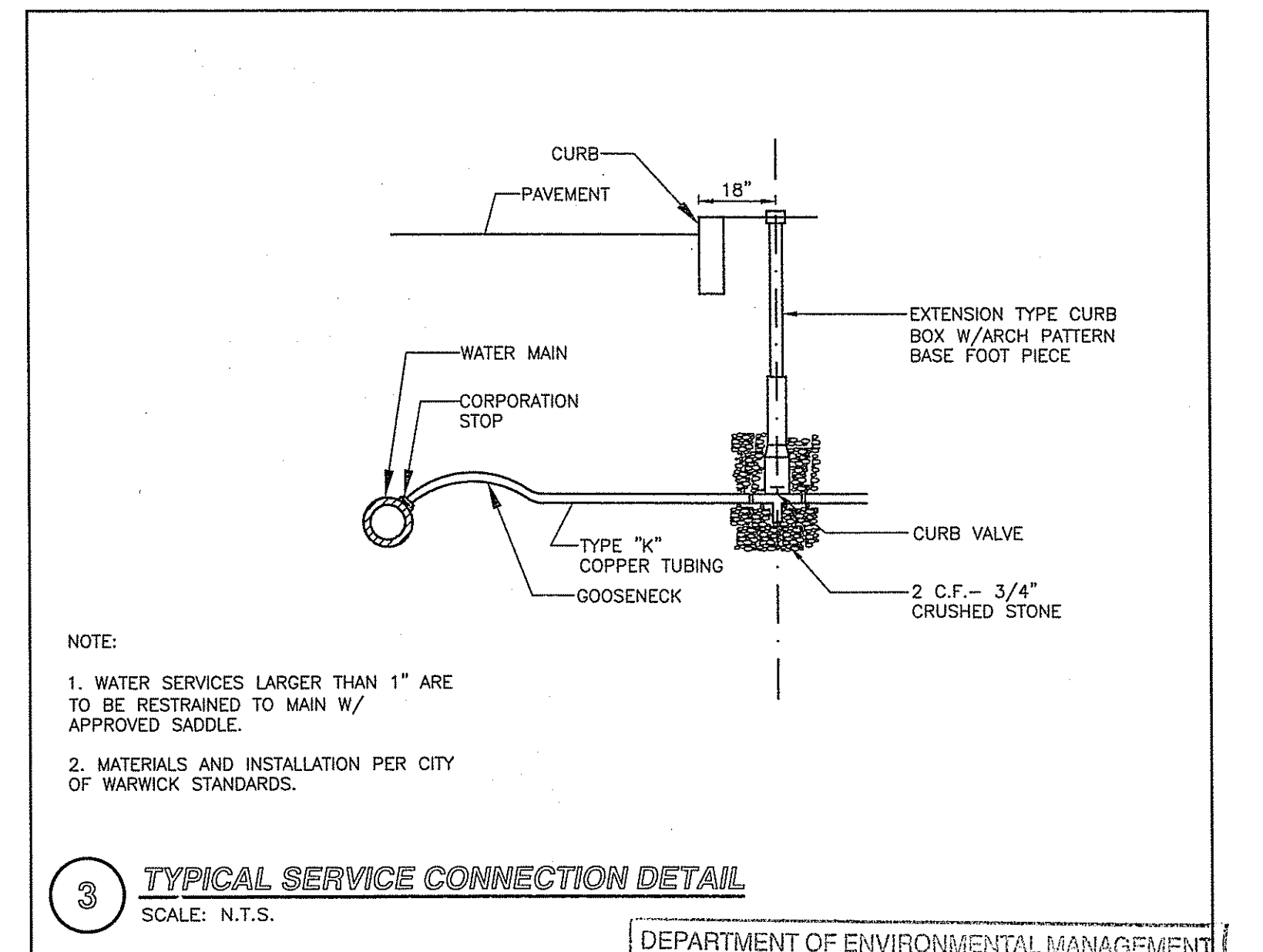
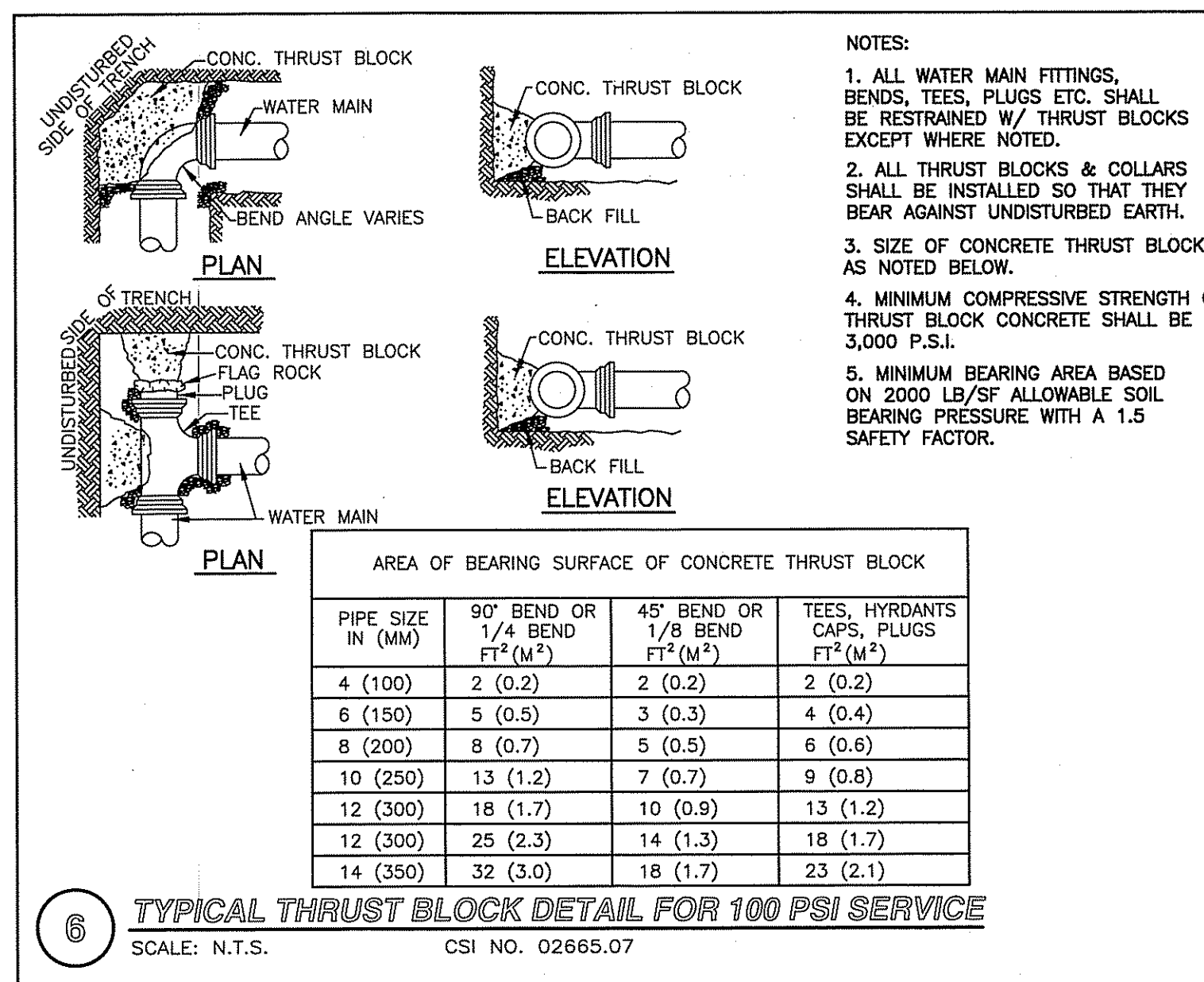
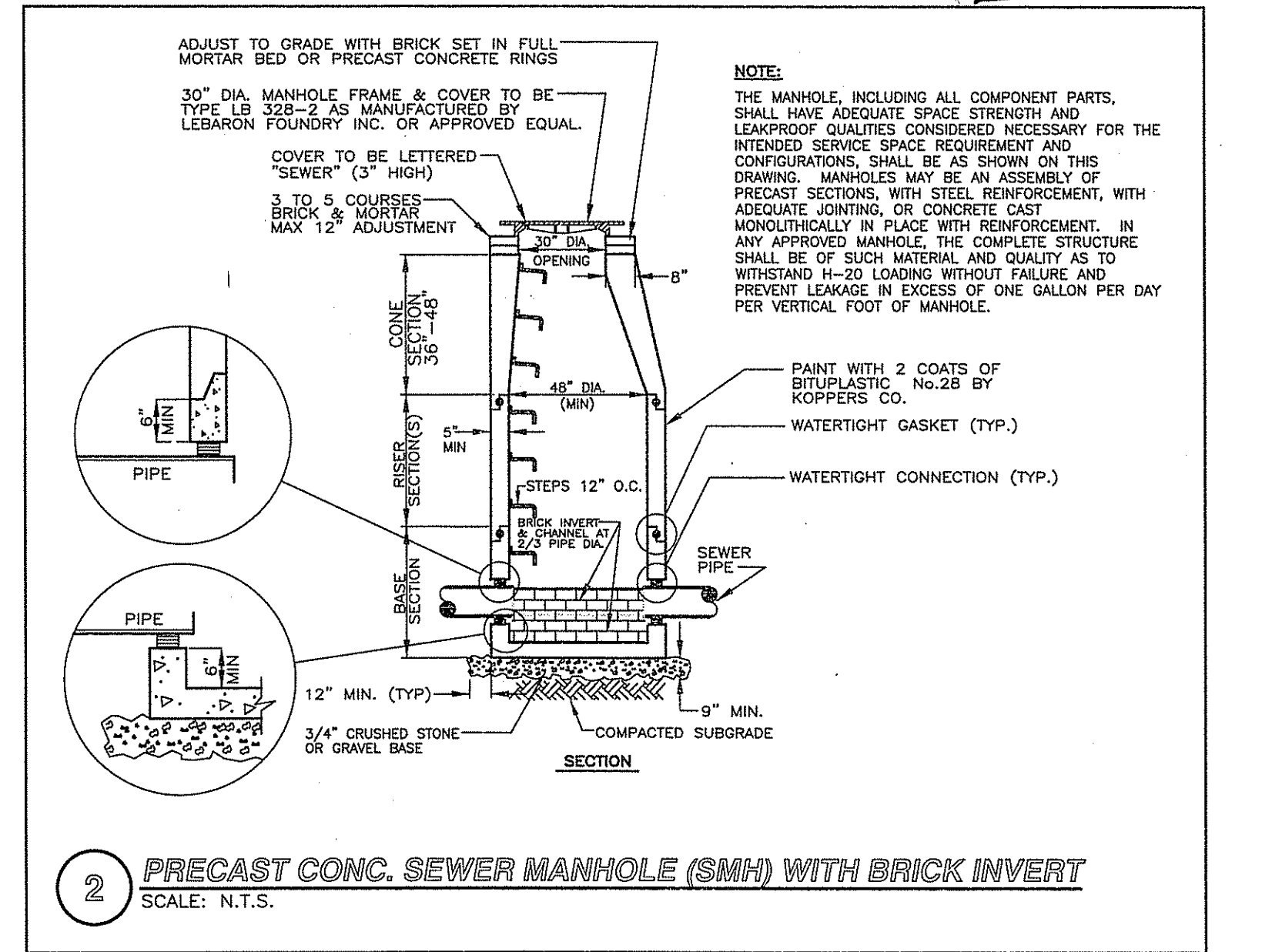
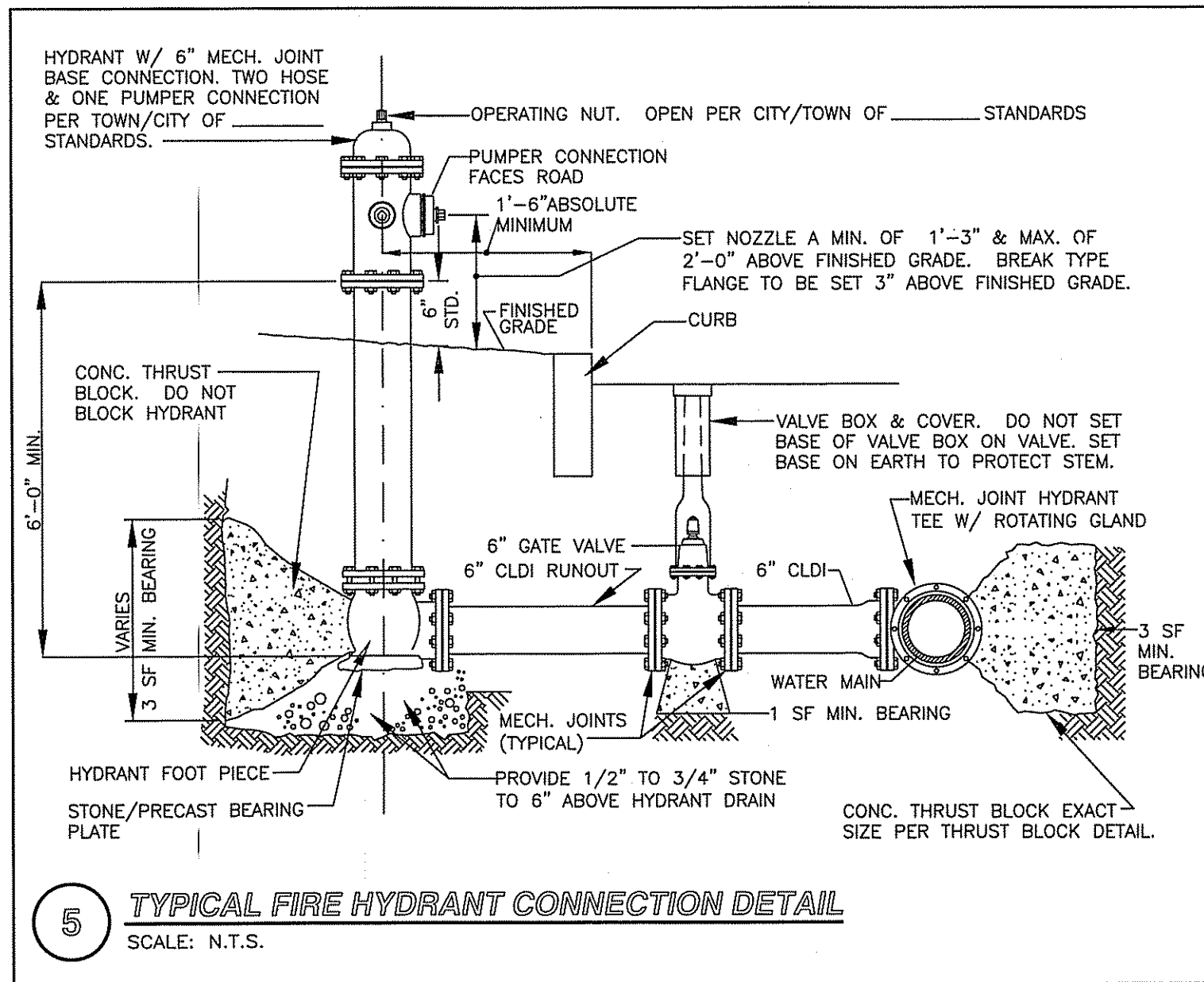
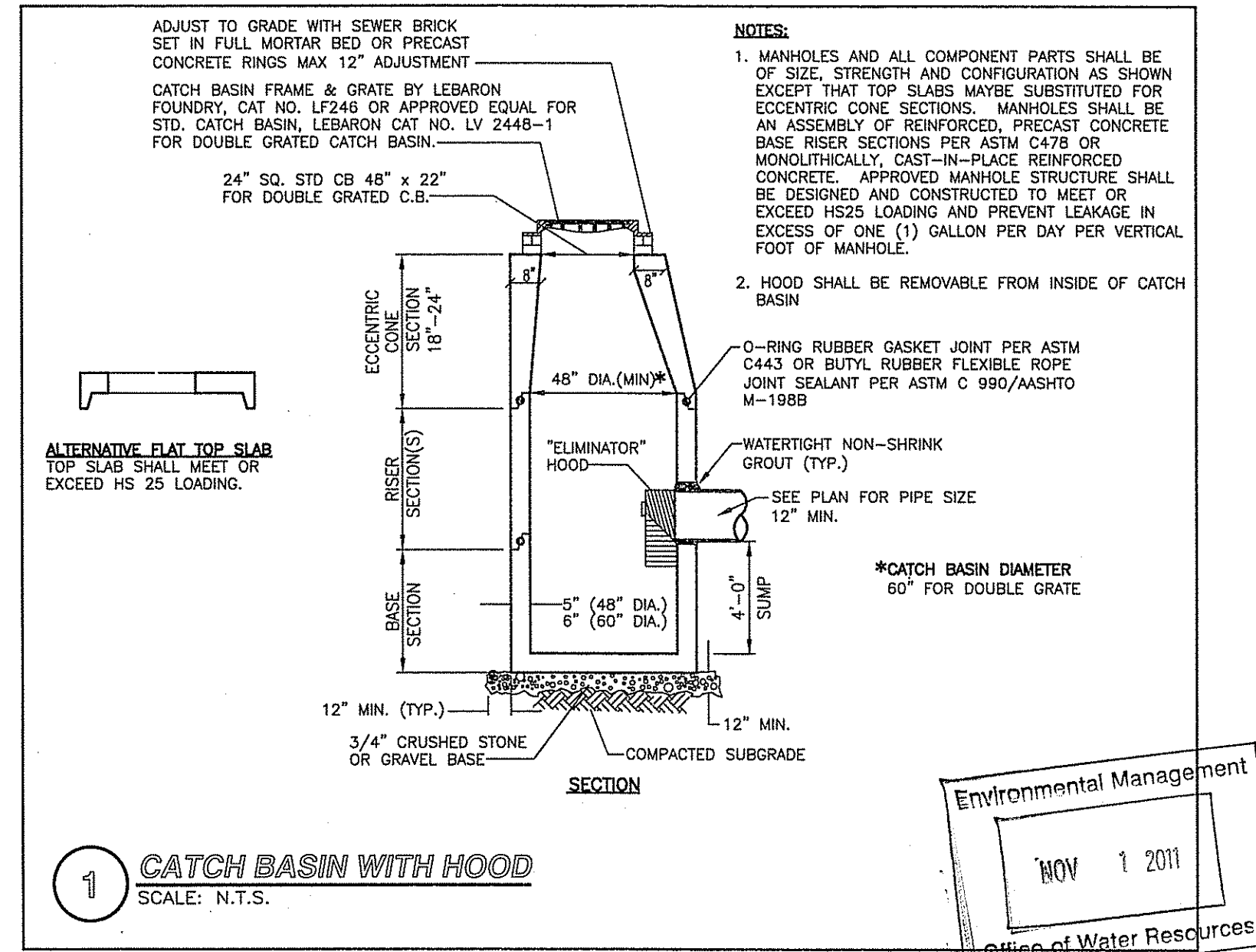
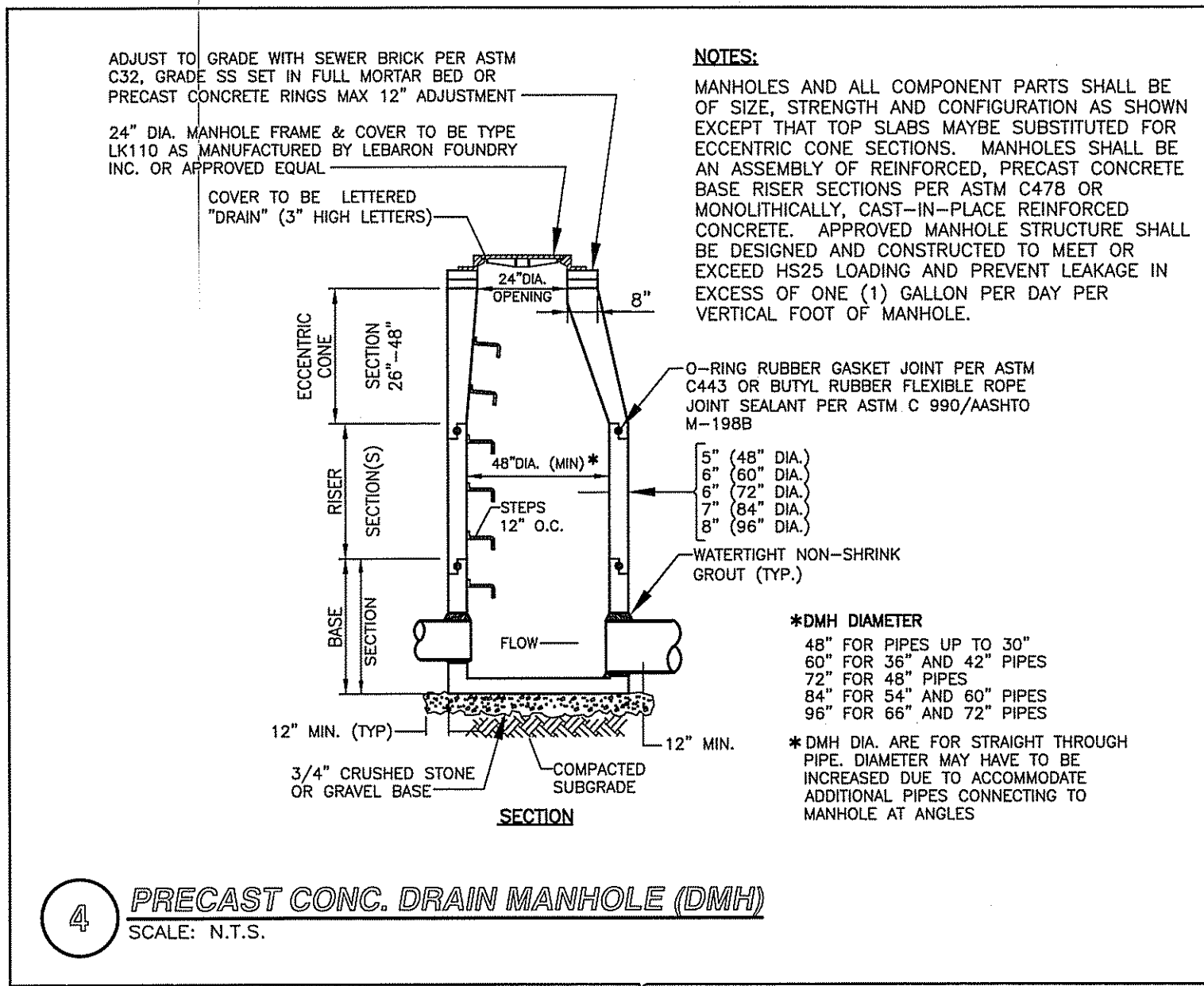
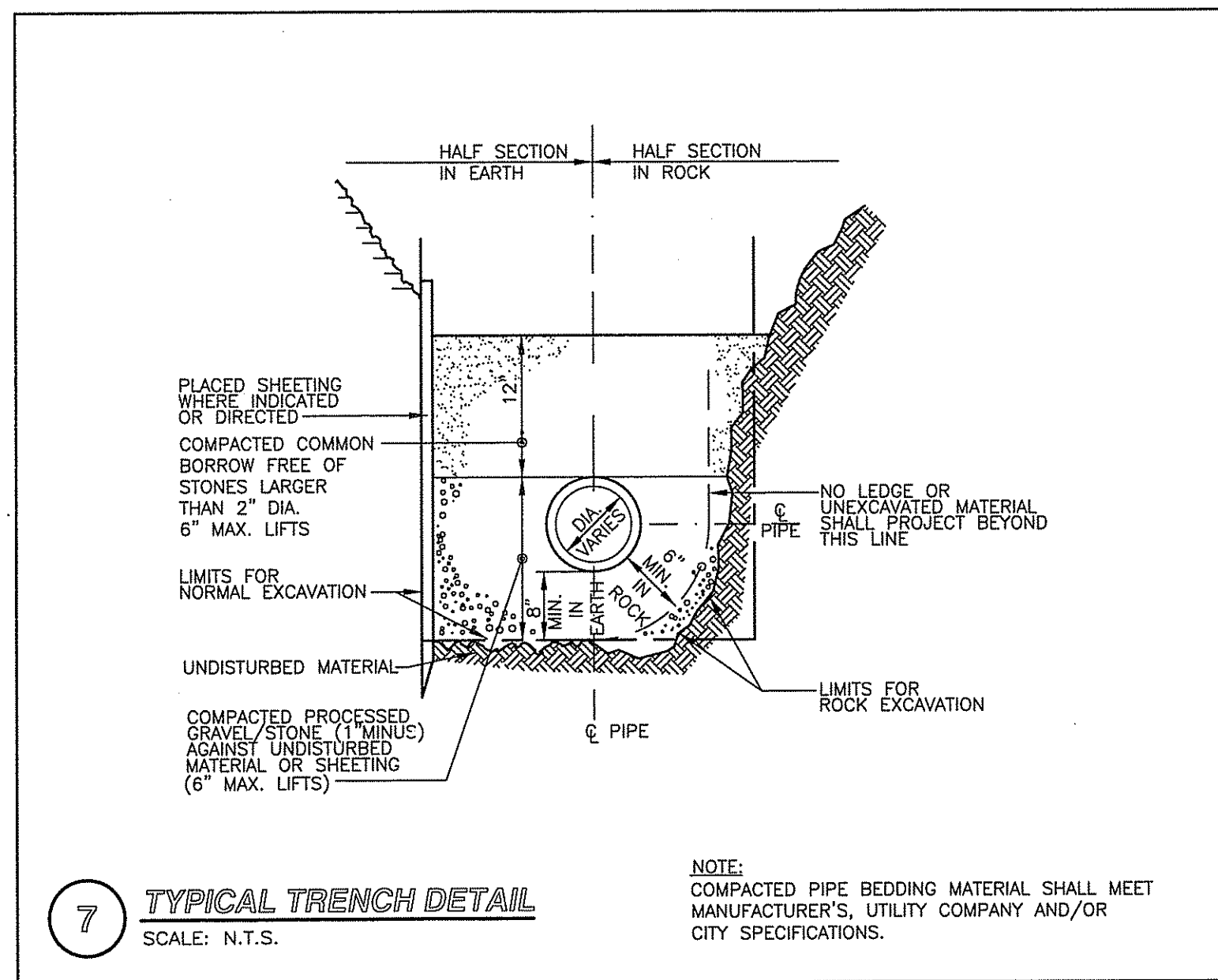
THOMAS M. DICICCO
No. 7613
REGISTERED PROFESSIONAL ENGINEER
CIVIL
10-51-11
Designed by: TMD
Drawn by: MCR
Checked by: TMD
Scale: N.T.S.
Date: 08/08/2011

Prepared for:
Warwick Mall
WARWICK, RI

Prepared by:
RJO'CONNELL & ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173

Project Name:
FASHION STORE EXPANSION
Drawing Name:
EROSION CONTROL DETAILS

Drawing No.: SHEET 8 OF 11
C-5
Project No.: 11049



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
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Charles A. Harte

Date	Revision	No.
10/14/11		3.
10/12/11		2.
08/08/11		1.

THOMAS M. DICICCO
No. 7613
REGISTERED PROFESSIONAL ENGINEER
CIVIL
10-31-11

Designed by: TMD
Drawn by: MCR
Checked by: TMD
Scale: N.T.S.
Date: 08/08/2011

Prepared for:

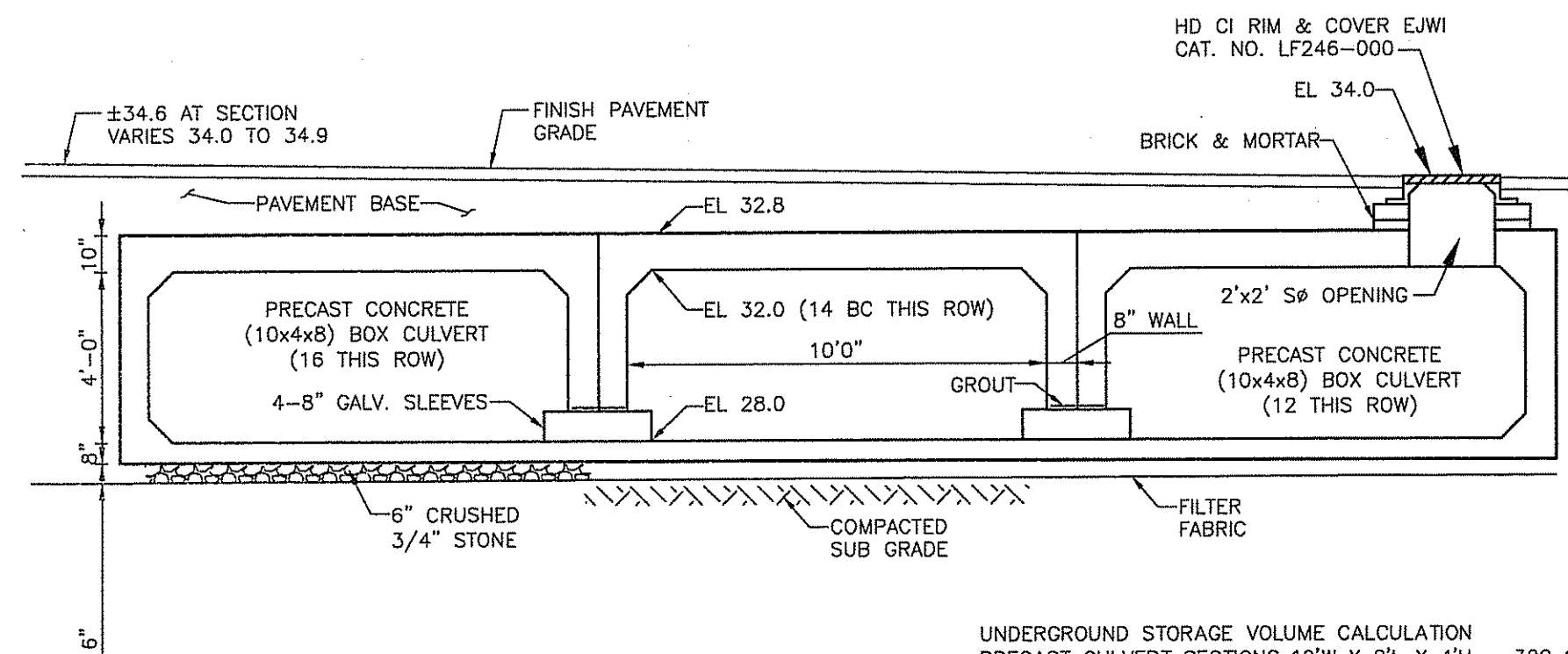
Warwick Mall
WARWICK, RI

Prepared by:

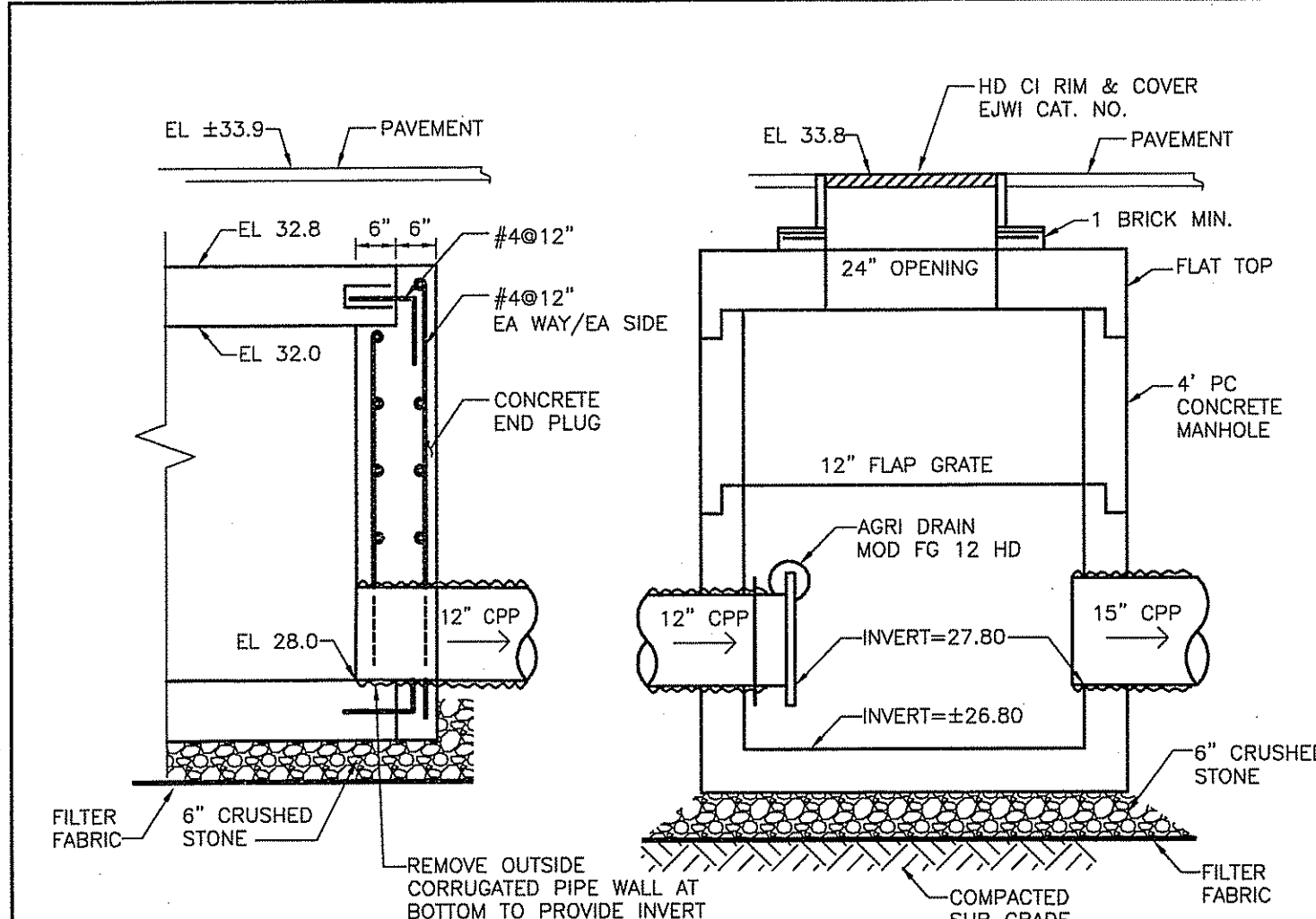
RJO'CONNELL & ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173

Project Name:
FASHION STORE EXPANSION
Drawing Name:
DRAINAGE AND UTILITY DETAILS

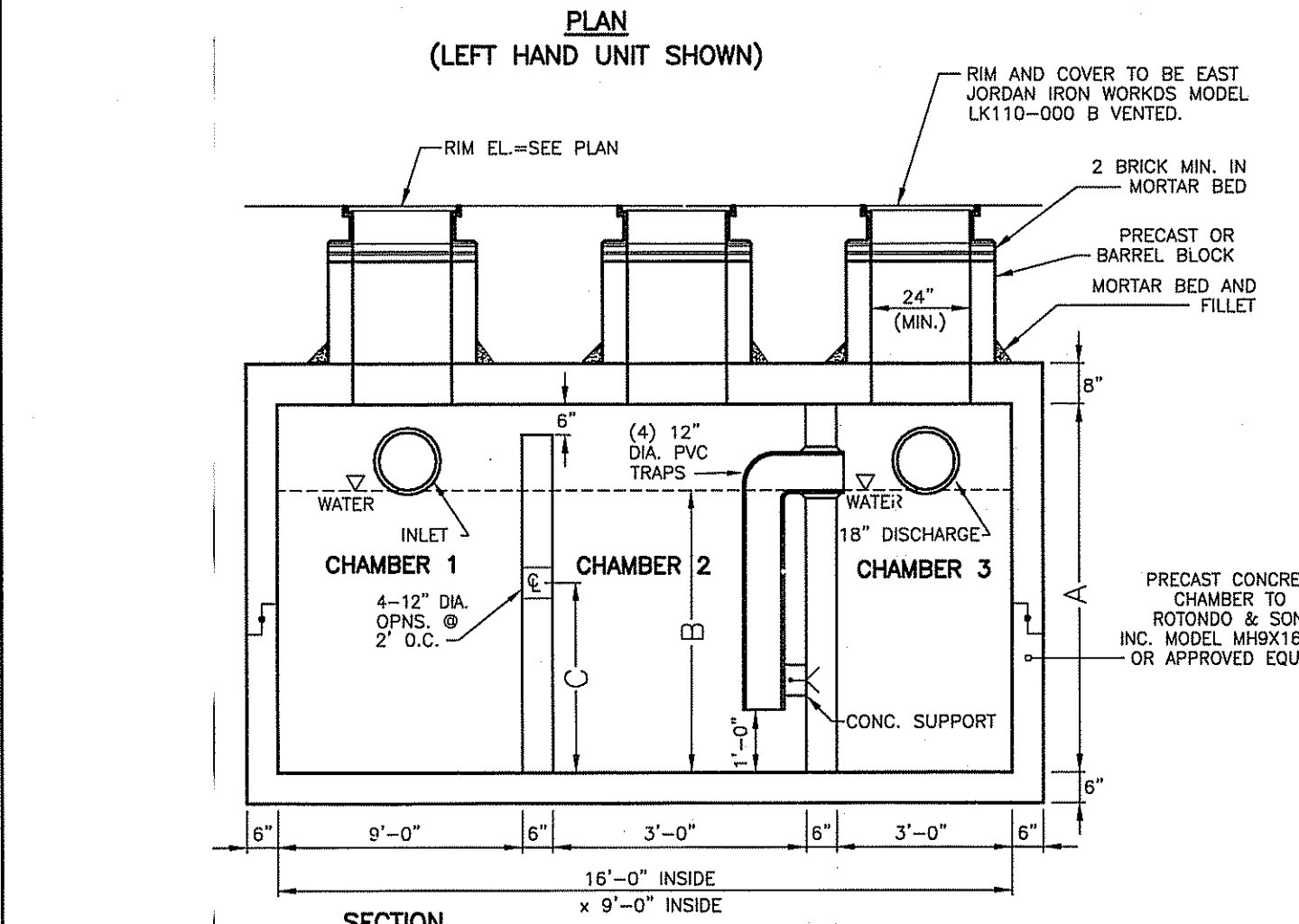
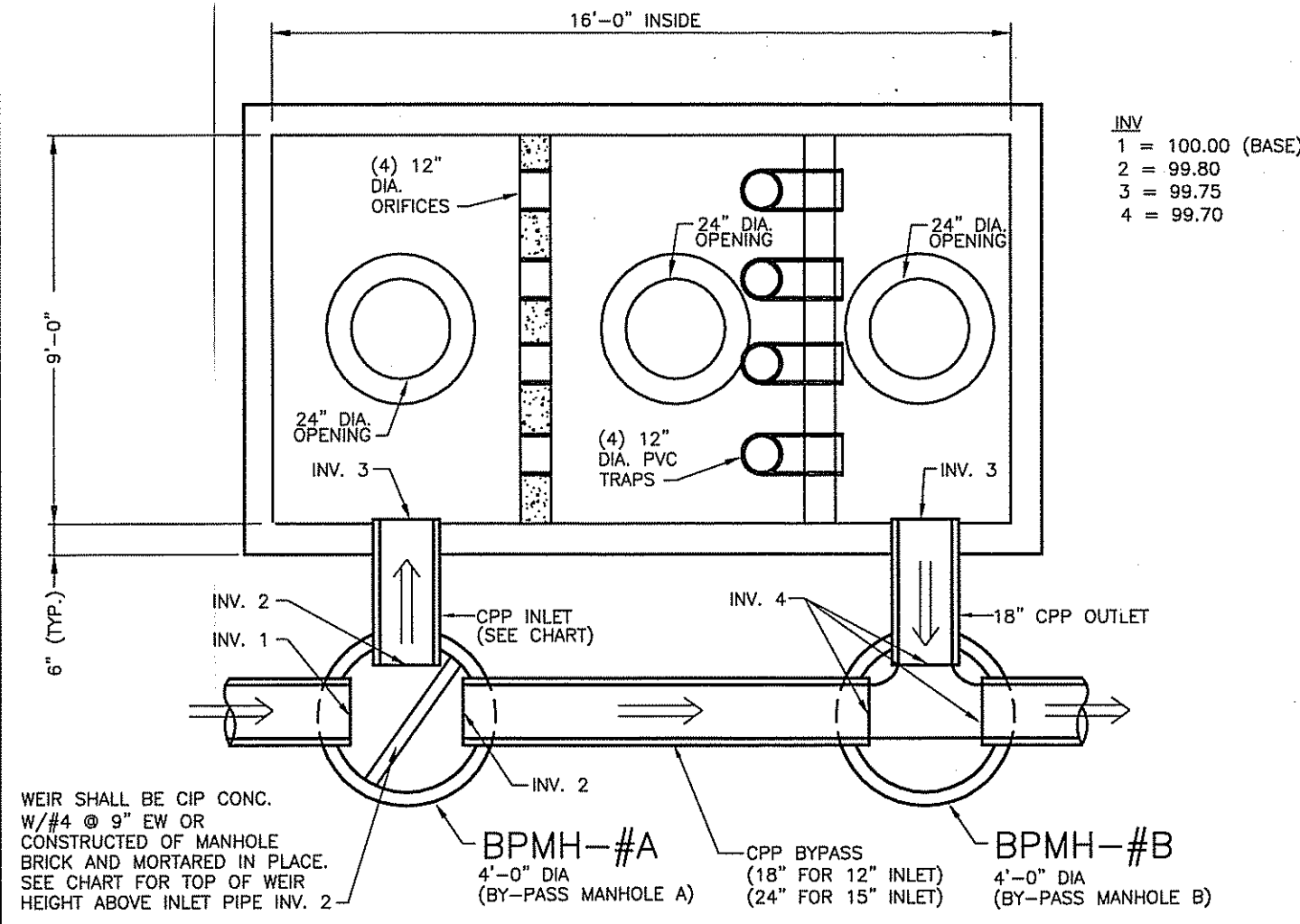
Drawing No.: SHEET 9 OF 11
C-6
Project No.: 11049



5 FLOOD COMPENSATION STORAGE PRECAST CONCRETE BOX CULVERTS
SCALE: N.T.S.



6 BOX CULVERT END AND FLAP GATE MH SECTION
SCALE: N.T.S.



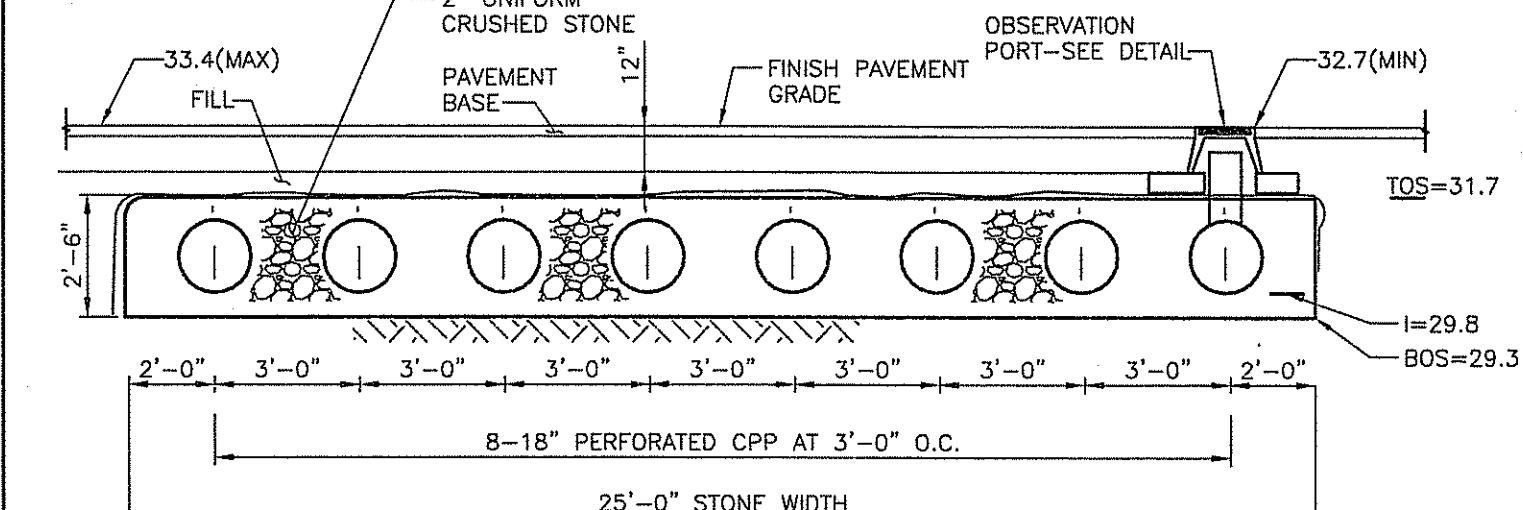
NOTES:

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO OWNER'S ENGINEER FOR APPROVAL.
- D.E.P. REGULATIONS REQUIRE 400 C.F. OF PERMANENT STORAGE IN CHAMBER 1 PER ACRE OF CONTRIBUTING IMPERVIOUS AREA.
- SEE OIL/GRIT SEPARATOR CHART - LARGE UNIT FOR INLET PIPE SIZE AND DIMENSIONS.

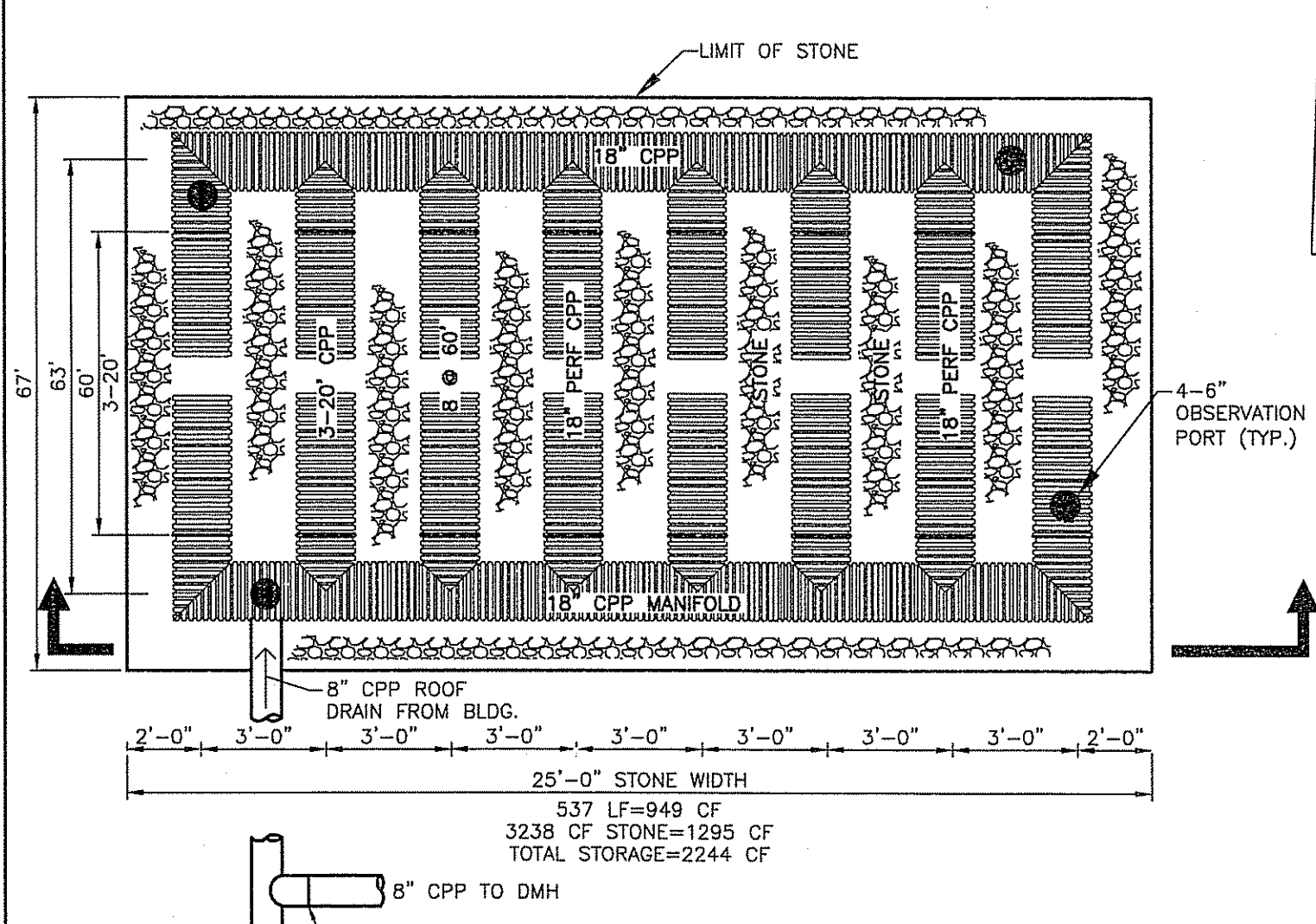
TRIBUTARY AREA (Ac.)	CHAM. 1 VOL. (CF)	2YR FLOW CFS	INLET DIA. (IN.)	WEIR HEIGHT*	A	B	C	DOUBLE UNIT AREA (Ac.)
1.114	445.5	4.46	15	14	7'-6"	5'-6"	3'-6"	2.228
1.620	648	6.48	15	22	10'-0"	8'-0"	4'-9"	3.240

* DIVERSION DMH "INLET" PIPE INVERT "2" TO TOP OF WEIR IN INCHES

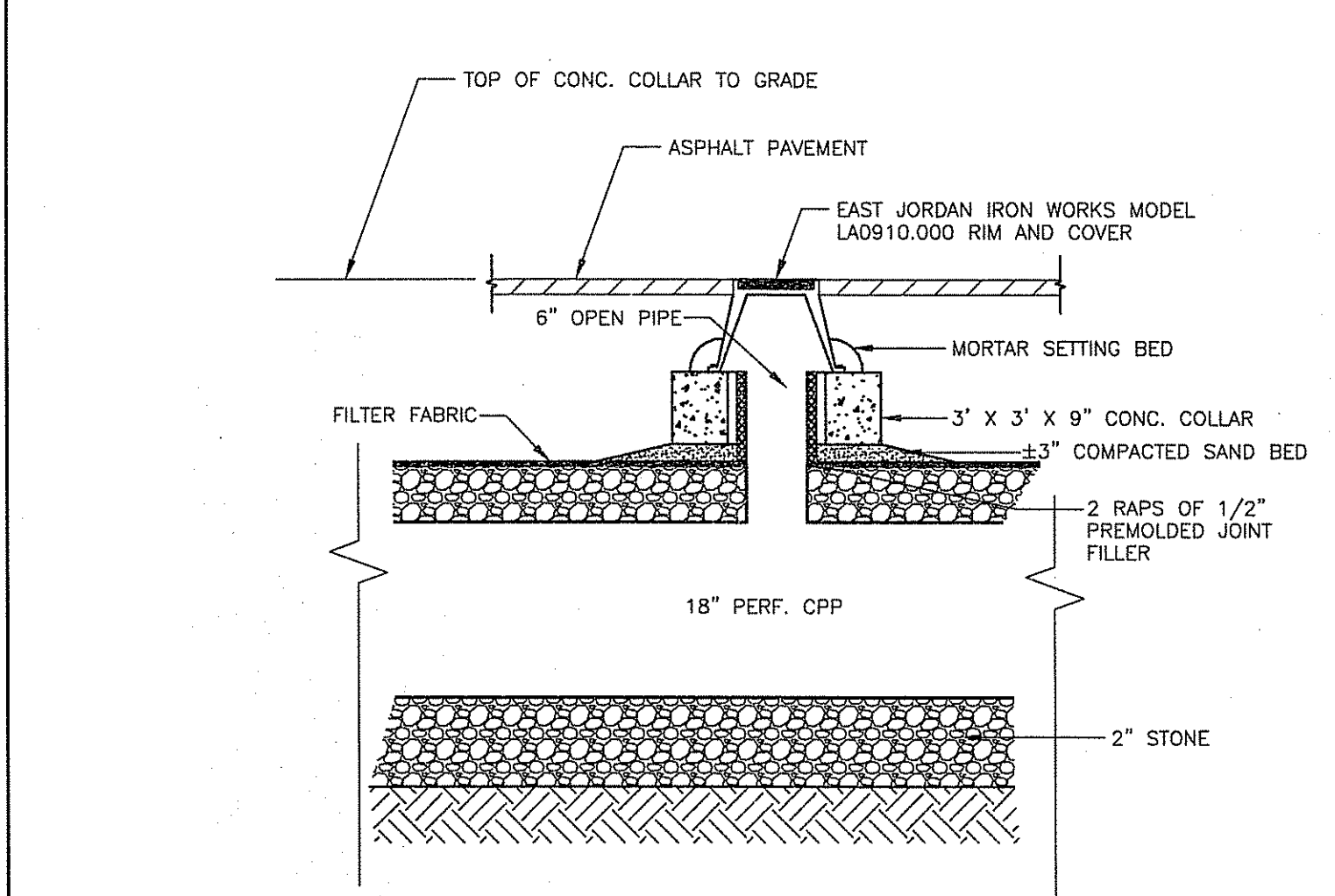
4 OIL/GRIT SEPARATOR (O/GS-L) - LARGE UNIT
SCALE: N.T.S.



1 INFILTRATION BASIN SECTION
SCALE: N.T.S.



2 INFILTRATION BASIN DETAIL
SCALE: N.T.S.



3 OBSERVATION PORT DETAIL
SCALE: N.T.S.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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APPROVED PLANS MUST BE AT CONTRACTOR'S SITE

Charles A. Harter

Environmental Management
NOV 1 2011
Office of Water Resources

THOMAS M. DICICCO
No. 7613
REGISTERED PROFESSIONAL ENGINEER
CIVIL

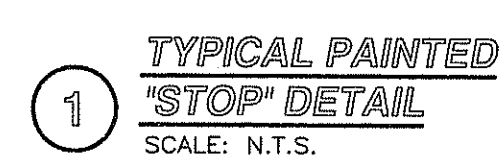
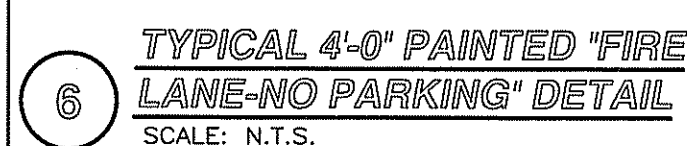
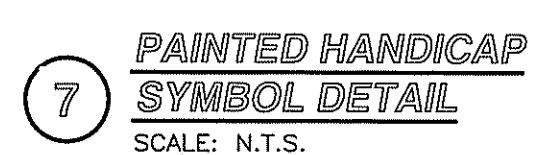
Designed by: TMD
Drawn by: MCR
Checked by: TMD
Scale: N.T.S.
Date: 08/08/2011

Prepared for:
Warwick Mall
WARWICK, RI

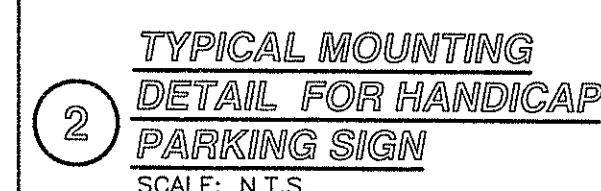
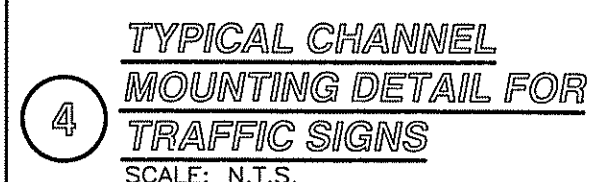
Prepared by:
RJO'CONNELL & ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0160
FAX: 781-279-0173

Project Name:
FASHION STORE EXPANSION
Drawing Name:
DRAINAGE AND UTILITY DETAILS II

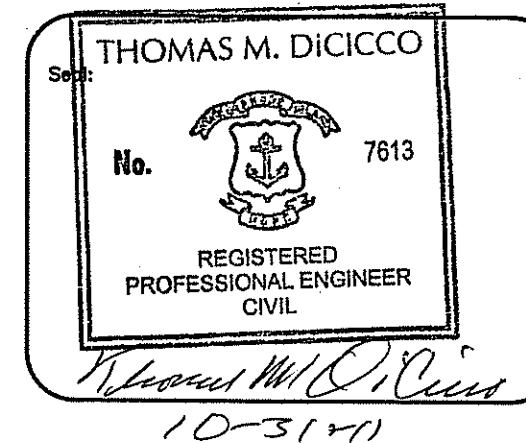
Drawing No.: **SHEET 10 OF 11**
C-7
Project No.: **11049**

PAVEMENT SECTION TABLE

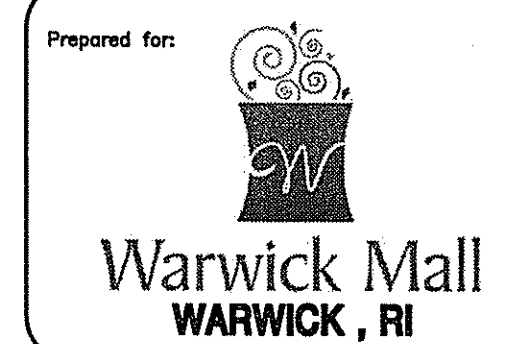
- NOTES:
1. SEE DWG. C-4 FOR LOCATIONS OF STANDARD AND HEAVY DUTY PAVEMENT
 2. SEE REFERENCED SECTIONS FROM RIDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
 3. PAVEMENT SECTION REFLECTS MINIMUM REQUIREMENTS PER GEOTECHNICAL ENGINEERS' RECOMMENDATIONS.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT THE CONSTRUCTION SITE
Charles A. Hester



Designed by:	TMD
Drawn by:	MCR
Checked by:	TMD
Scale:	N.T.S.
Date:	08/08/2011



Prepared by:

**RJO'CONNELL
& ASSOCIATES, INC.**

**CIVIL ENGINEERS, SURVEYORS
& LAND PLANNERS**

**80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173**

Project Name:
**FASHION STORE
EXPANSION**

Drawing Name:
**PARKING & TRAFFIC
CONTROL DETAILS**