MDISTEFANO - 5575 - 5575 COVER DEM-LAYOUT1.PLT - 2/13/2007 2:51:38 PM

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

50 Holden Street · Providence, Rhode Island 02908
www.rgb.net

Architecture · Engineering · Interior Design

RGB

THE ROBINSON GREEN BERETTA CORPORATION

ENGINEERS

CONSULTANTS:

BUILDING ENGINEERING RESOURCES, INC.

ELECTRICAL

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

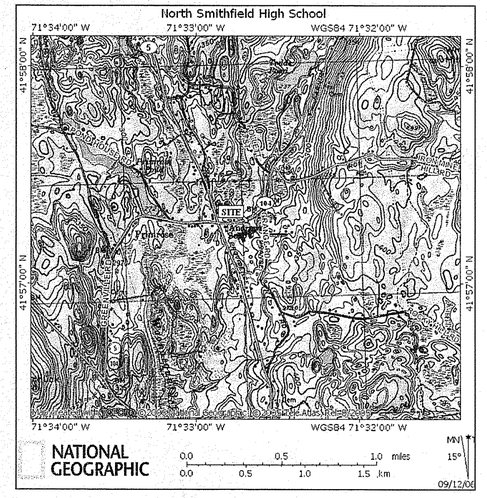
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Maureen D. Wenck

LIST OF DRAWINGS

	COVER SHEET
C101	KEY SURVEY
C102	SURVEY
C103	SURVEY
C104	SURVEY
C105	SURVEY
C106	SURVEY
C107	SURVEY
C108	SURVEY
C109	SURVEY
C110	SURVEY
C111	SURVEY
C112	SURVEY
C199	KEY PLAN
C200	SITE PREPARATION PLAN
C201	SITE PREPARATION PLAN
C300	LAYOUT PLAN
C301	LAYOUT PLAN
C400	SITE & GRADING PLAN
C401	GRADING PLAN
C402	GRADING PLAN
C403	GRADING PLAN
C404	GRADING PLAN
C405	SITE & GRADING PLAN
C406	GRADING PLAN
C407	GRADING PLAN
C408	GRADING PLAN
C409	GRADING PLAN
C410	GRADING PLAN
C500	UTILITY PLAN
C501	UTILITY PLAN
C502	SITE PREPARATION, LAYOUT, SITE & GRADING & UTILITY PLAN
C600	NOTES & DETAILS
C601	DETAILS
C602	DETAILS
C603	DETAILS
C604	DETAILS
C605	DETAILS
C606	PLAN & DETAILS ALTERNATE #2
C607	DETAILS
C608	DETAILS
C609	DETAILS
C610	DETAILS
C611	DETAILS
C612	DETAILS
C613	DETAILS
C614	DETAILS
C615	DETAILS
C616	DETAILS
C617	DETAILS
C618	DETAILS
C619	DETAILS
C620	DETAILS
C621	DETAILS
C622	DETAILS
E000	ELECTRICAL LEGEND NOTES, FIXTURE SCHEDULE
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL SITE PLAN

07-0068
FEB 16 2007

RECEIVED
FEB 16 2007
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

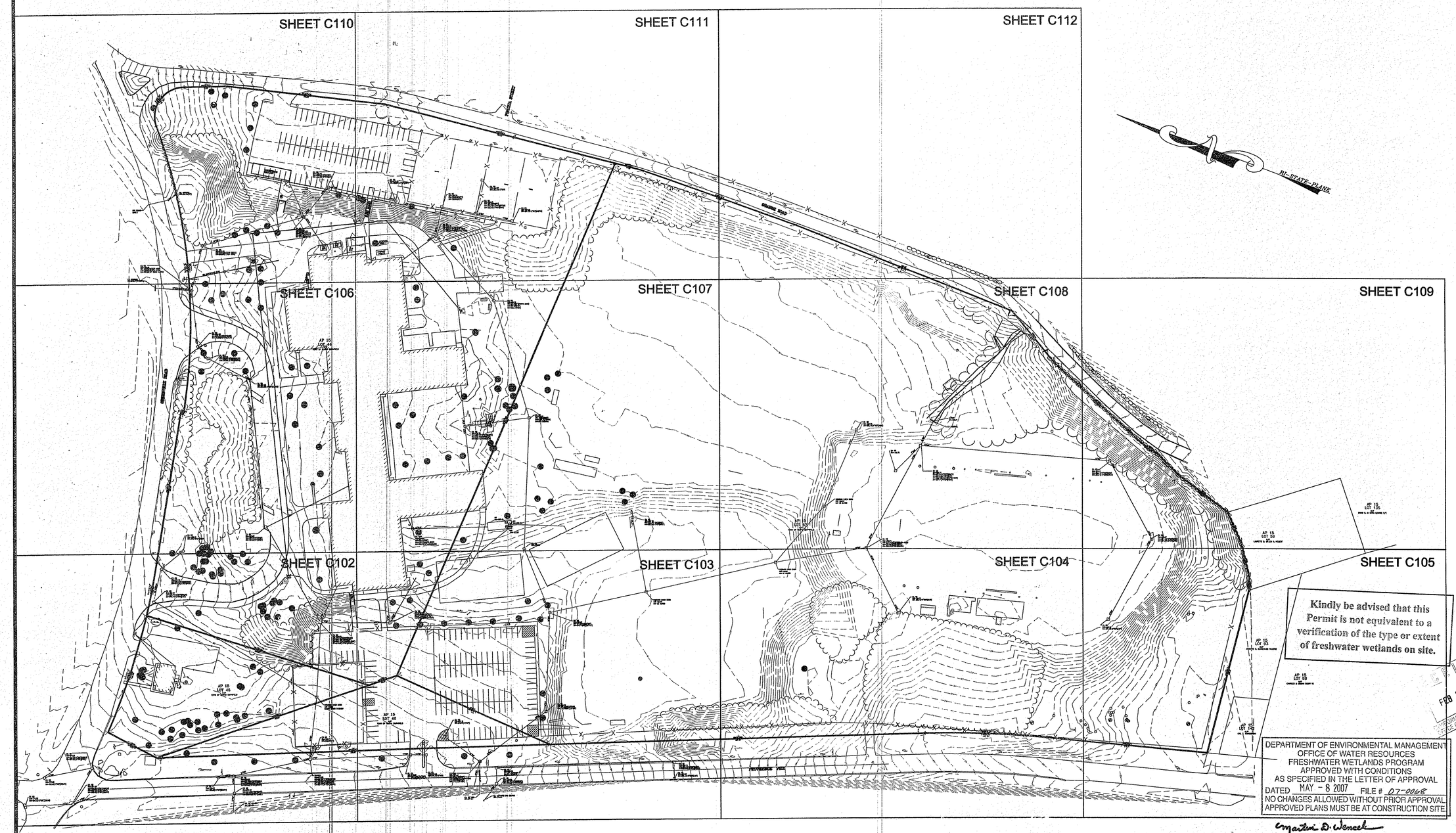


NORTH SMITHFIELD MIDDLE SCHOOL - 5575

STATUS: ISSUED FOR CONSTRUCTION

DATE: 2/9/2007

MUSTEPANO - 5575 - 5575C101.TIF - 2/13/2007 2:51:38 PM
MUSTEPANO - 5575 - 5575C101.TIF - 2/9/2007 8:09:30 AM



UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE THE DIG SAFE CENTER AT 1-800-225-4977, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE CONTRACTORS RESPONSIBILITY.

GRAPHIC SCALE
40 0 40 80 160 320
(IN FEET)
1 INCH = 80 FEET

CURT A. NUNES
REGISTERED
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

THIS EXISTING CONDITION SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

THIS SURVEY AND PLAN WAS PERFORMED UNDER THE DIRECT SUPERVISION OF COMMONWEALTH LAND SURVEYORS, INC.

CURT A. NUNES, RLS #1901 — 9/18/06 DATE

THIS BOUNDARY SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

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REGISTERED LAND SURVEYOR — 9/18/06 DATE

Certification

Drawn by DMS
Checked by CAN
Revised on 9/18/06

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 9/18/2006

Sheet Contents

KEY SURVEY

Project Number. 5575

Drawing No. C101

Sheet 1 of 57

P:\5000\5000.00 North Smithfield High School_Drawings\Base_Drawings\EXISTING CONDITIONS AND PERIMETER A1 (48.0in) Layout1, 9/18/2006 3:29:05 PM, CMS

MDISTEFANO - 5575 - 5575C102.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C102.TIF - 2/13/2007 12:39:17 PM

MATCH LINE SHEET C106

MATCH LINE SHEET C103

UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE TIE DIG SAFE CENTER AT 1-800-225-4977, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE CONTRACTORS RESPONSIBILITY.

LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EXISTING TOPOGRAPHY
- EXISTING FENCE
- EXISTING SEWER LINE
- EXISTING DRAIN LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING SIGN POST
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING DRAIN MANHOLE
- EXISTING CATCH BASIN
- EXISTING HEADWALL
- EXISTING TELEPHOLE
- EXISTING HYDRAINT
- EXISTING HANDICAP RAMP
- EXISTING TREE LINE
- EXISTING TREE
- EXISTING LEDGE
- EXISTING BUILDING
- EXISTING TEST PIT

RI STATE PLANE

EX. CB
RIM=281.74
INV=279.24(12"RCP)(EAST)
INV=279.24(12"RCP)(WEST)

EX. CB
RIM=281.21
INV=278.71(12"RCP)(SOUTH)
INV=278.71(12"RCP)(EAST)

R=1215.13'
L=416.59'
430.84'
42.49"RCP

EX. CB
RIM=279.05
INV=274.20(8"RCP)(SOUTH)
INV=274.15(8"RCP)(EAST)
INV=274.10(10"(NORTH-EAST)
INV=274.00(15"RCP)(WEST)

N02°19'18"W
395.80'

AP 15
LOT 45
N/F
TOWN OF NORTH SMITHFIELD

R=1215.13'
L=210.00'
105.26

DESIGNED CATCH BASIN
NOT FOUND
BURIED UNDER PAVEMENT

N35°35'57"W
239.68'

N21°52'19"W
666.41'

EX. CB
RIM=272.89
INV=269.64(12')

EX. CB
RIM=272.62
INV=267.62(12"RCP)(NORTH)
INV=267.52(12"RCP)(WEST)

EX. CB
RIM=272.08
INV=268.93(12"RCP)(SOUTH)

EX. CB
RIM=271.90
INV=266.90(12"RCP)(NORTH)
INV=266.90(12"RCP)(EAST)
INV=266.80(18"RCP)(SOUTH)

EX. CB
RIM=272.33
INV=267.83(12"RCP)(SOUTH)

EX. CB
RIM=269.98
INV=268.08(12"RCP)(SOUTH)

EX. CB
RIM=269.93
INV=265.73(24"RCP)(SOUTH)
INV=264.88(24"RCP)(WEST)
INV=267.63(12"RCP)(NORTH)

EX. CB
RIM=270.10
INV=264.80(24"RCP)(EAST)
INV=264.76(30"RCP)(WEST)

EX. 30" CULVER
INV.=264.39

EX-DMH
RIM=272.52
INV=267.82(12"RCP)(SOUTH)
INV=268.92(12"RCP)(EAST)
INV=267.97(24"RCP)(EAST)
INV=267.77(24"RCP)(NORTH)

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

THIS EXISTING CONDITION SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

THIS SURVEY AND PLAN WAS PERFORMED UNDER THE DIRECT SUPERVISION OF COMMONWEALTH LAND SURVEYORS, INC.

CURT A NUNES, RLS #1901 — DATE 9/18/06

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THIS BOUNDARY SURVEY AND PLAN CONFORM TO A CLASS I STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

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REGISTERED LAND SURVEYOR — DATE 9/18/06

CURT A. NUNES
RHODE ISLAND
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0065
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Project Number 5575

Certification

Drawn by DMS
Checked by CAN
Revised on 9/18/06

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

RECEIVED FEB 16 2007 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Issued On 9/18/2006

Sheet Contents

SURVEY

Drawing No. C102

Sheet 2 of 57

P:\Documents\5575.00 North Smithfield High School_Drawings\Site_Current_Drawings\EXISTING CONDITIONS AND PERIMETER-9-14-06.dwg, Layout1, 9/18/2006 2:50:23 PM, DMS

MDISTEFANO - 5575 - 5575C103.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C103.TIF - 2/9/2007 8:09:30 AM

MATCH LINE SHEET C107

MATCH LINE SHEET C102

MATCH LINE SHEET C104

DESIGNED CATCH BASIN
NOT FOUND
MAY BE BURIED

RI-STATE PLANE

EX. CB
RIM=280.49
INV=276.08(IN)(8"RCP)
INV=276.09(IN)(10"RCP)
INV=276.09(OUT)(10"RCP)

EX. CB
RIM=282.97
INV=279.87(IN)(18"RCP)
INV=278.77(OUT)(30"RCP)

EX. CB
RIM=280.58
INV=275.88(IN)(30"RCP)
INV=275.75(OUT)(30"RCP)

EX. CB
RIM=276.34
INV=273.79(12"RCP)

EX. CB
RIM=275.02
INV=269.72(IN.)(12"RCP)
INV=269.22(OUT)(12"RCP)

EX. CB
RIM=275.10
INV=270.30(12"RCP)

EX. DMH
RIM=277.13
INV=272.33(15"RCP)
INV=272.03(30"CORRUGATED)
INV=272.23(30"RCP)
INV=272.33(12"RCP)

EX. CB
RIM=278.45
INV=271.18(SOUTH)
INV=271.16(WEST)

EX. CB
RIM=278.63
INV=271.03(12"RCP)(EAST)
INV=270.96(12"RCP)(WEST)

EX. CB
RIM=294.14
INV=290.44(12"RCP)(WEST)
INV=290.04(12"RCP)(NORTH)

EX. CB
RIM=293.97
INV=290.87(12"RCP)(EAST)

EX. 15" COR
INV=271.19

EX. 30" COR
INV=271.51

EX. 12"FLARED END SECTION
INV=270.93

AP 15
LOT 46
N/F
TOWN OF NORTH SMITHFIELD

N38°56'57"W
50.00'

N28°25'41"E
285.12'

S2°19'W
6.41'

UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE THE DIG SAFE CENTER AT 1-800-225-4977, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE CONTRACTORS RESPONSIBILITY.

LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EXISTING TOPOPGRAPHY
- EXISTING FENCE
- EXISTING SEWER LINE
- EXISTING DRAIN LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING SIGN POST
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING DRAIN MANHOLE
- EXISTING CATCH BASIN
- EXISTING HEADWALL
- EXISTING TELEPHOLE
- EXISTING HYDRAINT
- EXISTING HANDICAP RAMP
- EXISTING TREE LINE
- EXISTING TREE
- EXISTING LEDGE
- EXISTING BUILDING
- EXISTING TEST PIT (TP)

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

CURT A. NUNES
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

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CURT A NUNES, RLS #1901 — 9/18/06 DATE

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REGISTERED LAND SURVEYOR — 9/18/06 DATE

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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 MAY - 8 2007 FILE # 07-0048
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RECEIVED
FEB 16 2007
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

Certification

Drawn by DMS
Checked by CAN
Revised on 9/18/06

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On 9/18/2006

Sheet Contents
SURVEY

Project Number. 5575
Drawing No. C103
Sheet 3 of 57

P:\2000\00060.00 North Smithfield High School_Drawings\Civil_Current_Drawings\EXISTING CONDITIONS AND PERIMETER-a-11-06.dwg, Layout1, 9/18/2006 11:22:09 AM, DMS

MUSTEFANO - 5575 - 5575C104.TIF - 2/13/2007 2:51:38 PM

MATCH LINESHEET C108

MATCH LINE SHEET C103

MATCH LINE SHEET C105

DESIGNED CATCH BASIN NOT FOUND, MAY BE BURIED

18"RCP

12"RCP

EX. CB
RIM=304.73
INV=298.73(12"RCP)(EAST)

RI STATE PLANE

LEGEND

PROPERTY LINE	
ABUTTERS LINE	
EXISTING TOPOGRAPHY	90
EXISTING FENCE	X X X
EXISTING SEWER LINE	S
EXISTING DRAIN LINE	D
EXISTING GAS LINE	G
EXISTING WATER LINE	W
EXISTING SIGN POST	
EXISTING UTILITY POLE	
EXISTING LIGHT POLE	
EXISTING GUY WIRE	
EXISTING SEWER MANHOLE	S
EXISTING DRAIN MANHOLE	D
EXISTING CATCH BASIN	
EXISTING HEADWALL	
EXISTING TELEPHOLE	T
EXISTING HYDRAINT	
EXISTING HANDICAP RAMP	
EXISTING TREE LINE	
EXISTING TREE	
EXISTING LEDGE	
EXISTING BUILDING	
EXISTING TEST PIT	TP

N21°52'19"W
637.12'

R=1696.79'
6°57'00"
L=205.82'
103.04'

PROVIDENCE PIKE

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GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

CURT A. NUNES
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

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REGISTERED LAND SURVEYOR — DATE 9/18/06

Certification

Drawn by DMS
Checked by CAN
Revised on

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

RECEIVED FEB 16 2007 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Issued On 9/18/2006

Sheet Contents

SURVEY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 8 2007 FILE # 07-0065
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Project Number 5575

Drawing No.

C104

Sheet 4 of 57

P:\5500\5575\00.55 North Smithfield High School_Drawings\Gilbane_Owners_Drawings\EXISTING CONDITIONS AND PERIMETER-9-14-06.dwg, Layout1, 9/18/2006 3:41:34 PM, DMS

MDISTEFANO - 5575 - 5575C105.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C105.TIF - 2/9/2007 8:05:30 AM

MATCH LINE SHEET C109

MATCH LINE SHEET C104

EX. CB
RIM=306.15
INV=301.75(12"RCP)(EAST)

17"RCP

AP 15
LOT 93
N/F
ANNETTE C. BLANCHARD TRUSTEE

AP 15
LOT 98
N/F
CHARLES & SUSAN SCOTT TE

AP 15
LOT 142
N/F
GAIL T. NAVADONSKI

N71°29'41"E 288.21'

N83°58'41"E 288.21'

S16°55'19"W 272.21'

RI-STATE-PLANE

LEGEND

PROPERTY LINE
ABUTTERS LINE
EXISTING TOPOGRAPHY 90
EXISTING FENCE X X X
EXISTING SEWER LINE S
EXISTING DRAIN LINE D
EXISTING GAS LINE G
EXISTING WATER LINE W
EXISTING SIGN POST
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING GUY WIRE
EXISTING SEWER MANHOLE S
EXISTING DRAIN MANHOLE D
EXISTING CATCH BASIN
EXISTING HEADWALL
EXISTING TELEPHOLE T
EXISTING HYDRAINT
EXISTING HANDICAP RAMP
EXISTING TREE LINE
EXISTING TREE
EXISTING LEDGE
EXISTING BUILDING
EXISTING TEST PIT TP

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

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CURT A. NUNES
COASTAL RESOURCES MANAGEMENT COUNCIL
No. 1901
PROFESSIONAL LAND SURVEYOR

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OFFICE OF WATER RESOURCES
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APPROVED WITH CONDITIONS
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Maureen D. Wenck

RECEIVED FEB 16 2007 ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

THIS BOUNDARY SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

THIS SURVEY AND PLAN WAS PERFORMED UNDER THE DIRECT SUPERVISION OF COMMONWEALTH LAND SURVEYORS, INC.

REGISTERED LAND SURVEYOR — DATE 9/18/06

Certification

Drawn by DMS
Checked by CAN
Revised on

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION
Issued On 9/18/2006

Sheet Contents
SURVEY

Project Number. 5575

Drawing No.
C105

Sheet 5 of 57

P:\5500\5575\05 North Smithfield High School_Drawings\Site_Civil\wc_Drawings\EXISTING CONDITIONS AND PERMITTING-11x17.dwg, Layout1, 9/18/2006 2:42:04 PM, DMS

MUSTEPANO - 5575 - 5575C106.TIF - 2/13/2007 2:51:38 PM

MATCH LINE SHEET C110

THIS EXISTING CONDITION SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

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CURT A NUNES, RLS #1901 — DATE 9/18/06

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REGISTERED LAND SURVEYOR — DATE 9/18/06

CURT A. NUNES
REGISTERED
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

RI STATE PLANE

LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EXISTING TOPOPGRAPHY — 90 —
- EXISTING FENCE — X — X — X —
- EXISTING SEWER LINE — S —
- EXISTING DRAIN LINE — D —
- EXISTING GAS LINE — G —
- EXISTING WATER LINE — W —
- EXISTING SIGN POST
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE (S)
- EXISTING DRAIN MANHOLE (D)
- EXISTING CATCH BASIN
- EXISTING HEADWALL
- EXISTING TELEPHOLE — T —
- EXISTING HYDRAINT
- EXISTING HANDICAP RAMP
- EXISTING TREE LINE
- EXISTING TREE
- EXISTING LEDGE
- EXISTING BUILDING
- EXISTING TEST PIT TP

UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE THE DIG SAFE CENTER AT 1-800-225-4977, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE CONTRACTORS RESPONSIBILITY.

GREENVILLE ROAD

EX. ICB
RIM=284.53
INV=279.38(12"RCP)(EAST)
INV=279.58(12"RCP)(WEST)

EX. CB
RIM=285.24
INV=279.94(12"RCP)(SOUTH)
INV=279.94(12"RCP)(NORTH)

Ex. CB
Rim=291.09
INV=286.04(12"RCP)(NORTH)

AP 15
LOT 44
N/F
TOWN OF NORTH SMITHFIELD

S11°24'39"E
60'

N78°35'21"E
261.84'

EX. CB
RIM=283.15
INV=279.75(12"(WEST)

EX. CB
Rim=292.03
INV=287.73(10")(EAST)
INV=287.53(10")(WEST)

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

MATCH LINE SHEET C102

MATCH LINE SHEET C107

RECEIVED
FEB 16 2007
RI DEPT. OF ENVIRONMENTAL MANAGEMENT
WATER RESOURCES

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0065
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Engineer D. Wenceck

Certification

Drawn by DMS
Checked by CAN
Revised on

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On 9/18/2006

Sheet Contents
SURVEY

Project Number. 5575

Drawing No.
C106

Sheet 6 of 57

P:\2005\05005.00 North Smithfield High School_Drawings\Civil_Drawings\Site_Current_Drawings\EXISTING CONDITIONS AND PERIMETER 8-14-06.dwg, Layout1, 9/18/2006 3:45:23 PM, DMS

MUSTEFANO - 5575 - 5575C107.TIF - 2/13/2007 2:51:38 PM

MATCH LINE SHEET C111

MATCH LINE SHEET C106

MATCH LINE SHEET C108

MATCH LINE SHEET C103

RI-STATE PLANE

UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE THE DIG SAFE CENTER AT 1-800-225-4977, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE CONTRACTORS RESPONSIBILITY.

LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EXISTING TOPOGRAPHY
- EXISTING FENCE
- EXISTING SEWER LINE
- EXISTING DRAIN LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING SIGN POST
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING DRAIN MANHOLE
- EXISTING CATCH BASIN
- EXISTING HEADWALL
- EXISTING TELEPHOLE
- EXISTING HYDRAINT
- EXISTING HANDICAP RAMP
- EXISTING TREE LINE
- EXISTING TREE
- EXISTING LEDGE
- EXISTING BUILDING
- EXISTING TEST PIT

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED MAY - 8 2007 FILE # 07-0065
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EX. SMH
RIM=294.00
INV=290.75(EAST)
INV=290.75(NORTH-EAST)
INV=290.70(12"CLAY)(SOUTH)

12"CLAY

MH
RIM=293.49

MH
RIM=293.48

PUMP

MH
RIM=293.52

EX. CB
RIM=288.00
INV=283.50(15")(EAST)
INV=283.45(18")(WEST)

EX. CB
RUN296.50
INV=285.92(EAST)
INV=286.30(NORTH)
INV=285.50(WEST)

EX. CB
RIM=292.26
INV=288.11(12"RCP)(SOUTH)
INV=288.11(8"RCP)(EAST)
INV=288.11(8"RCP)(WEST)

8"RCP
12"RCP
8"RCP
CONCRETE GRADUATION PLATFORM TOP ELEV.=297.19
S89°20'23"E 94.35'

EX. CB
RIM=287.40
INV=285.70(1"PVC)(EAST)
INV=283.55(12"RCP)(WEST)

12"RCP

CURT A. NUNES
No. 1901
REGISTERED PROFESSIONAL LAND SURVEYOR
9/18/06

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

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CURT A NUNES, RLS #1901 — DATE 9/18/06

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REGISTERED LAND SURVEYOR — DATE 9/18/06

Certification

Drawn by DMS
Checked by CAN
Revised on

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

RECEIVED FEB 26 2007 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Issued On 9/18/2006

Sheet Contents

SURVEY

Project Number. 5575

Drawing No. C107

Sheet 7 of 57

P:\5000\5000\5575 North Smithfield High School_Drawings\Civil_Current_Drawings\EXISTING CONDITIONS AND PERIMETER-9-14-06.dwg, Layout1, 9/18/2006 11:27:00 AM, DMS

MBISTEFANO - 5575 - 5575C108.TIF - 2/13/2007 2:51:38 PM

MATCH LINE SHEET C112

MATCH LINE SHEET C107

MATCH LINE SHEET C109

MATCH LINE SHEET C104

LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EXISTING TOPOPGRAPHY
- EXISTING FENCE
- EXISTING SEWER LINE
- EXISTING DRAIN LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING SIGN POST
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING DRAIN MANHOLE
- EXISTING CATCH BASIN
- EXISTING HEADWALL
- EXISTING TELEPHOLE
- EXISTING HYDRAINT
- EXISTING HANDICAP RAMP
- EXISTING TREE LINE
- EXISTING TREE
- EXISTING LEDGE
- EXISTING BUILDING
- EXISTING TEST PIT

EX. CB
RIM=299.79
INV=295.74(10"RCP)(WEST)

EX. CB
RIM=305.82

EX. CB
RIM=306.71
INV=297.91(12"RCP)(SOUTH)
INV=297.51(24"RCP)(EAST)
INV=302.76(6"CLAY)(NORTH--WEST)
INV=297.26(30"RCP)(WEST)

EX. CB
RIM=306.04
INV=295.14(18"RCP)(SOUTH--WEST)
INV=294.89(30"RCP)(EAST)
INV=293.39(30"RCP)(NORTH)

24"RCP
INV=298.21

EX. HEADWALL

DESIGNED CATCH BASIN
NOT FOUND
MAY BE BURIED

AP 15
LOT 57
N/F
TOWN OF NORTH SMITHFIELD

RI STATE PLANE

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GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

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CURT A NUNES, RLS #1901 — DATE 9/18/06

CURT A. NUNES
RHODE ISLAND
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
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Maureen D. Vencat

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REGISTERED LAND SURVEYOR — DATE 9/18/06

RECEIVED
FEB 16 2007
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

Certification

Drawn by DMS
Checked by CAN
Revised on

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 9/18/2006

Sheet Contents

SURVEY

Project Number. 5575

Drawing No.

C108

Sheet 8 of 57

P:\5000\5575\13 North Smithfield High School_Drawings\Site_Current_Drawings\EXISTING CONDITIONS AND PERIMETER-9-14-06.dwg, Layout1, 9/18/2006 11:27:48 AM, DMS

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CURT A NUNES, RLS #1901 — DATE 9/18/06

CURT A. NUNES
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

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LEGEND

- PROPERTY LINE
- ABUTTERS LINE
- EXISTING TOPOGRAPHY — 90 —
- EXISTING FENCE — X — X — X —
- EXISTING SEWER LINE — S —
- EXISTING DRAIN LINE — D —
- EXISTING GAS LINE — G —
- EXISTING WATER LINE — W —
- EXISTING SIGN POST
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE (S)
- EXISTING DRAIN MANHOLE (D)
- EXISTING CATCH BASIN
- EXISTING HEADWALL
- EXISTING TELEPHOLE — T —
- EXISTING HYDRAINT
- EXISTING HANDICAP RAMP
- EXISTING TREE LINE
- EXISTING TREE
- EXISTING LEDGE
- EXISTING BUILDING
- EXISTING TEST PIT TP

RI STATE PLANE

MATCH LINE SHEET C108

319 320 321 322 323 324 325 326 327 328 329

200.00' N22°00'41"E

320.00' S14°59'45"W

520.00' S24°47'58"W

103.28' S17°09'13"W

12"RCP

EX. CB
RIM=306.11
INV=300.41(12"RCP)(WEST)
INV=300.41(12"RCP)(NORTH)

EX. CB
RIM=305.67
INV=301.42(12"RCP)(WEST)
INV=301.27(12"RCP)(EAST)

18"RCP INVERTS

MATCH LINE SHEET C105

AP 15
LOT 59
N/F
LAURETTE S. EILEEN A. HEBERT

A
LO
DAVID C. &

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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 MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Martin D. Wencek

RECEIVED FEB 16 2007 ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

Certification

Drawn by DMS
Checked by CAN

Revised on

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 9/18/2006

Sheet Contents

SURVEY

Project Number. 5575

Drawing No.

C109

Sheet 9 of 57

P:\2005\2005100 North Smithfield High School_Drawings\Site_Current_Drawings\EXISTING CONDITIONS AND PERIMETER-9-14-06.dwg, Layout1, 9/18/2006 3:14:51 PM, DMS

MDISTEFANO - 5575 - 5575C110.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C110.TIF - 2/9/2007 8:09:30 AM

LEGEND

PROPERTY LINE
ABUTTERS LINE
EXISTING TOPOGRAPHY — 90 —
EXISTING FENCE — X — X — X —
EXISTING SEWER LINE — S —
EXISTING DRAIN LINE — D —
EXISTING GAS LINE — G —
EXISTING WATER LINE — W —
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EXISTING UTILITY POLE
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EXISTING TREE
EXISTING LEDGE
EXISTING BUILDING
EXISTING TEST PIT — TP

RI-STATE PLANE

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CURT A NUNES, RLS #1901 — 9/18/06 DATE

CURT A. NUNES — STATE OF RHODE ISLAND — No. 1901 — PROFESSIONAL LAND SURVEYOR — 9/18/06

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REGISTERED LAND SURVEYOR — 9/18/06 DATE

N20°54'42"W 7A.22'
R=50.00'
Δ=89°38'16"
L=39.24'
70.29'
N13°17'44"W 268.98'
UNDERGROUND RESERVOIR
EX. CB RIM=306.38 INV=300.83(10"RCP)(IN) INV=300.83(10"RCP)(OUT)
EX. HEADWALL INV=282.22(12")
NOT FOUND BURIED
EX. CB RIM=290.84 INV=286.94(12") INV=286.94(10"RCP) INV=286.79(12"RCP) INV=287.04(8"CLAY)
EX. CB RIM=285.94 INV=282.04(12"RCP SOUTH) INV=282.04(12"RCP EAST)
EX. CB RIM=284.44 INV=279.04(12"RCP EAST) INV=278.64(12"RCP WEST) INV=278.54(18" CORR. NORTH)
EX. HEADWALL INV=278.17(18"CORR.)
12"CORRUGATED METAL
EX. UNDERGROUND ELEC.
CONC PAD
LOADING DOCK
UP. 1.15-I-3

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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GRAPHIC SCALE — Jonathan D. Wenck
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

MATCH LINE SHEET C106
MATCH LINE SHEET C111

Certification

Drawn by DMS
Checked by CAN
Revised on 9/18/06

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 9/18/2006

RECEIVED FEB 16 2007 RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Sheet Contents

SURVEY

Project Number. 5575

Drawing No. C110

Sheet ID of 57

P:\5000\5575\01 North Smithfield High School_Drawings\Civil_Current_Drawings\EXISTING CONDITIONS AND PERIMETER-9-14-06.dwg, Layout1, 9/18/2006 11:29:51 AM, DMS

MDISTEFANO - 5575 - 5575C111.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C111.TIF - 2/8/2007 8:09:30 AM

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THIS SURVEY AND PLAN WAS PERFORMED UNDER THE DIRECT SUPERVISION OF COMMONWEALTH LAND SURVEYORS, INC.

CURT A NUNES, RLS #1901 — DATE 9/18/06

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REGISTERED LAND SURVEYOR — DATE 9/18/06

CURT A. NUNES
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE THE DIG SAFE CENTER AT 1-800-225-4977, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE CONTRACTORS RESPONSIBILITY.

PRMONA STREET

RI-STATE-PLANE

N05°34'38"W 402.86'

S06°13'33"E 47.50'

MATCH LINE PLAN - 9

MATCH LINE SHEET C107

EX. CB
RIM=306.32
INV=302.07(10"RCP)(OUT)

EX. CB
RIM=306.29
INV=303.94(12"RCP)

EX. CB
RIM=308.70
INV=303.00(SOUTH)
INV=303.00(WEST)

EX. CB
RIM=308.48
INV=303.38(NORTH)
INV=303.48(12"RCP)(SOUTH)
INV=303.73(12"RCP)(EAST)

EX. CB
RIM=308.46
INV=304.26(12"RCP)(NORTH)

EX. CB
RIM=293.30
INV=289.40(10"RCP)(EAST)
INV=289.25(10")(SOUTH-WEST)
INV=289.3(10"RGP)(NORTH-WEST)

EX. CB
RIM=294.32
INV=291.62(4")(NORTH-EAST)
INV=287.82(EAST)
INV=288.17(WEST)

10"RCP
12"RCP
4"

PROPANE TANK

STORAGE TRAILER

LEGEND

PROPERTY LINE
ABUTTERS LINE
EXISTING TOPOPOGRAPHY
EXISTING FENCE
EXISTING SEWER LINE
EXISTING DRAIN LINE
EXISTING GAS LINE
EXISTING WATER LINE
EXISTING SIGN POST
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING GUY WIRE
EXISTING SEWER MANHOLE
EXISTING DRAIN MANHOLE
EXISTING CATCH BASIN
EXISTING HEADWALL
EXISTING TELEPHOLE
EXISTING HYDRAINT
EXISTING HANDICAP RAMP
EXISTING TREE LINE
EXISTING TREE
EXISTING LEDGE
EXISTING BUILDING
EXISTING TEST PIT

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Engineer D. Wenck

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

MATCH LINE SHEET C112

Certification

Drawn by DMS
Checked by CAN
Revised on 9/18/06

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 9/18/2006

Sheet Contents

SURVEY

RECEIVED FEB 16 2007 ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Project Number. 5575

Drawing No. C111

Sheet 11 of 57

P:\2005\05005.00 North Smithfield High School_Drawings\Site_Civil\Drawings\EXISTING CONDITIONS AND PERMITTED 8-1 HS Arq Layout, 9/18/2006 3:44:47 PM, DMS

MUSTEFANO - 5575 - 5575C112.TIF - 2/13/2007 2:51:38 PM
MUSTEFANO - 5575 - 5575C112.TIF - 2/9/2007 8:09:30 AM

RI STATE PLANE

MATCH LINE SHEET C111

GRANGE ROAD

30°19'W
.90'

398.00'
N01°35'41"E

MATCH LINE SHEET C108

LEGEND

PROPERTY LINE
ABUTTERS LINE
EXISTING TOPOGRAPHY
EXISTING FENCE
EXISTING SEWER LINE
EXISTING DRAIN LINE
EXISTING GAS LINE
EXISTING WATER LINE
EXISTING SIGN POST
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING GUY WIRE
EXISTING SEWER MANHOLE
EXISTING DRAIN MANHOLE
EXISTING CATCH BASIN
EXISTING HEADWALL
EXISTING TELEPHOLE
EXISTING HYDRAINT
EXISTING HANDICAP RAMP
EXISTING TREE LINE
EXISTING TREE
EXISTING LEDGE
EXISTING BUILDING
EXISTING TEST PIT
TP

THIS EXISTING CONDITION SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

THIS SURVEY AND PLAN WAS PERFORMED UNDER THE DIRECT SUPERVISION OF COMMONWEALTH LAND SURVEYORS, INC.

9/18/06
CURT A NUNES, RLS #1901 DATE

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9/18/06
REGISTERED LAND SURVEYOR DATE

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CURT A. NUNES
No. 1901
PROFESSIONAL LAND SURVEYOR
9/18/06

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

Certification

Drawn by DMS
Checked by CAN
Revised on

Gilbane

Project

NORTH SMITHFIELD MIDDLE SCHOOL

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

RECEIVED
FEB 16 2007
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

Issued On 9/18/2006

Sheet Contents
SURVEY

Project Number. 5575

Drawing No.
C112

Sheet 12 of 57

P:\0000\0506\05.00 North Smithfield High School_Drawings\Civil_Current_Drawings\EXISTING CONDITIONS AND PERIMETER-9-14-06.dwg, Layout1, 9/18/2006 3:45:13 PM, DMS

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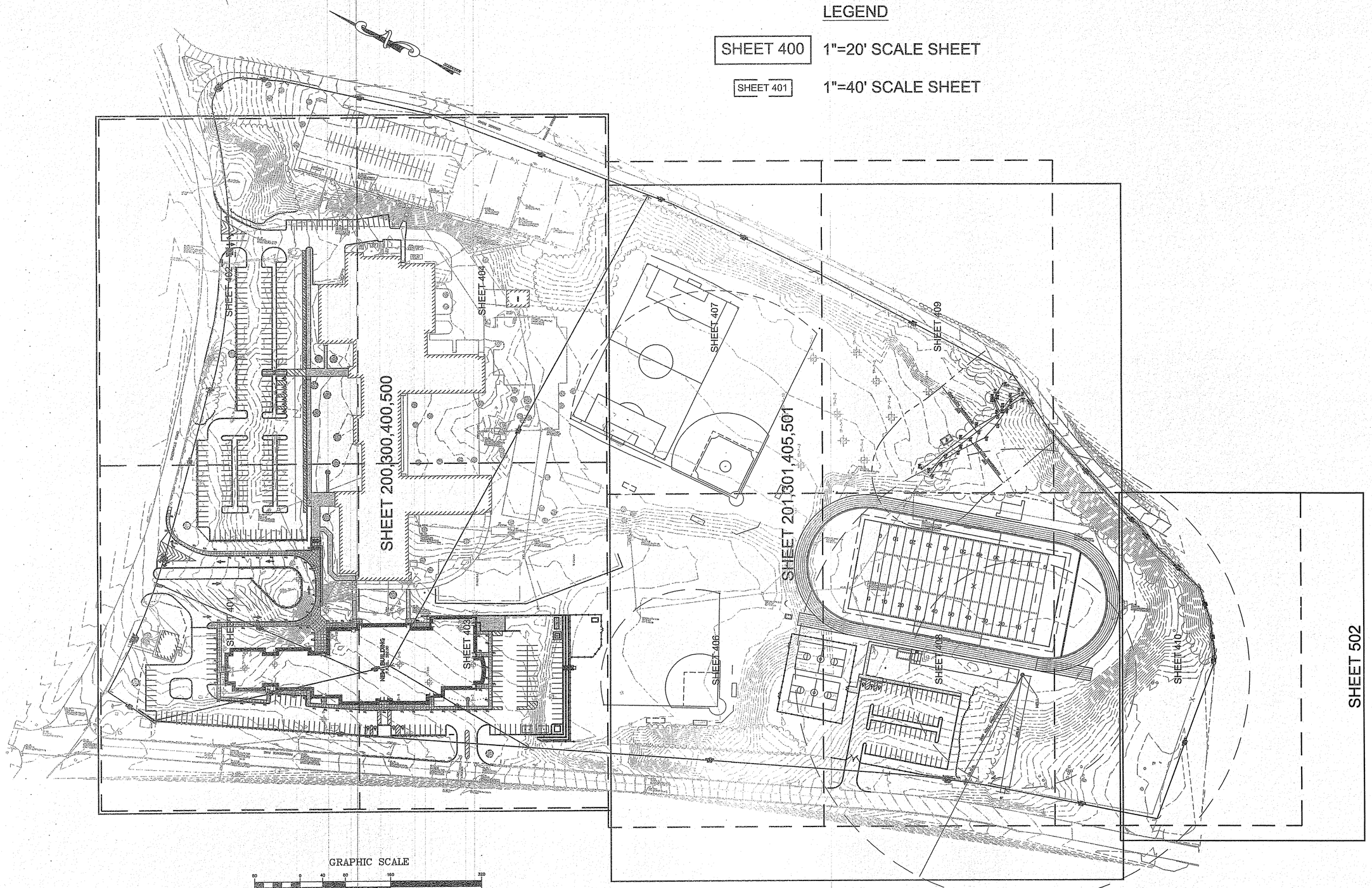
M:\RI\STEFANO - 5575 - 55750199-LAYOUT 36 X 24.PLT - 3/14/2007 12:32:03 PM

LEGEND

SHEET 400	1"=20' SCALE SHEET
SHEET 401	1"=40' SCALE SHEET



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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 MAY - 8 2007 FILE # 07-0068
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Martin D. Wencek

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Certification

RUSSELL J. FERLAND
NO. 9836
REGISTERED
PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

Gilbane

50 Holden Street
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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

KEY PLAN

SCALE: 1"=80'

Project Number. 5575

Drawing No.

C199

Sheet 13 of 39

MDISTEFANO - 5575 - 5575C200.TIF - 2/13/2007 2:51:38 PM

MDISTEFANO - 5575 - 5575C200-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

PROPOSED LEGEND

R&D	REMOVE AND DISPOSE OF
R&R	REMOVE AND RELOCATE
R&S	REMOVE AND SALVAGE
	TREE PROTECTION
B-1	BORING LOCATION
TP-1	TEST PIT LOCATION
1 1A	PROVIDE SILT SACKS AT CATCH BASINS - SEE SOIL EROSION & SEDIMENT CONTROL NOTES. (LETTERS INDICATE EXIST. C.B. LABEL)
2	R&D TREE.
	LIMIT OF VEGETATION CLEARING & DISTURBANCE

NOTES:
1. REFER TO DWG. C600 FOR SOIL EROSION & SEDIMENT CONTROL NOTES.
2. PRIOR TO ANY TREE REMOVAL CONTRACTOR SHALL MARK ALL TREES TO BE REMOVED WITH FLUORESCENT ORANGE TAPE & ALL TREES TO REMAIN WITH GREEN TAPE. TREE MARKINGS TO BE FIELD REVIEWED BY ARCH./ ENGINEER PRIOR TO ANY CUTTING.

I C601 HAY BALE EROSION CHECK

SAW CUT BIT. PVM'T.

TREE PROTECTION (TYPICAL) II C602

R&D SIGN

R&D PIPE

RAISE RIM TO 294.0 R&D FRAME & GRATE, PROVIDE NEW FRAME & COVER LEBARON LK 256

I C601 HAY BALE EROSION CHECK

GREENVILLE ROAD

R&D C.B.

R&D CURB

R&D FRAME & COVERS, PROVIDE NEW FRAME & COVER LeBARON LA244. REBUILD TOP OF DRY WELL RIM 289.12

R&D BIT. PVM'T.

CLEAR & GRUB

LIMIT OF VEGETATION CLEARING & DISTURBANCE

R&R SCORE BOARDS #1 (SEE ELEC. DWG'S.)

RAISE RIM TO 277.00 & REBUILD TOP OF D.M.H.

PROVIDENCE PIKE

CAP PIPE

R&D PIPE

R&R LIGHT POLE - REFER TO ELECTRICAL DWG'S.

R&D CATCH BASIN

R&D PAVEMENT

ABANDON PIPE

CAP & T.B.

R&S SIGN

R&S LIGHT POLE REFER TO ELECTRICAL DWG'S.

R&D HYD. & SECTION OF WATER LINE

R&D BIT. PVM'T.

R&R LIGHT POLE - REFER TO ELECTRICAL DWG'S.

R&R SIGN ON FENCE & GRANITE MONUMENT

R&D PVM'T. R&R HOOPS, SCORE TABLE, CHAIRS, BENCHES & BEACHERS

RAISE RIM TO 284.0 REBUILD TOP OF C.B. PROVIDE NEW F&C LeBARON LK256

SAW CUT BIT. PVM'T.

R&D FENCE

R&D SIGN

RAISE RIM TO 278.75 R&D FRAME & GRATE PROVIDE FRAME & COVER LEBARON LK 256.

R&D PVM'T.

R&D CONC. CURB

R&D CATCH BASIN

SAW CUT BIT. PVM'T.

RAISE DMH RIM TO 278.0

R&R SIGN #1

R&D PIPE

CAP PIPE

R&D PVM'T.

R&S LIGHT POLE - REFER TO ELECTRICAL DWG'S.

R&D CATCH BASIN

R&D HOOP

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

R&D SECTION OF CHAIN LINK FENCE

R&D CONC. STEPS

R&D PIPE

R&D PVM'T.

R&R BLEACHERS

R&D BACKSTOP

R&R DUGOUT

R&R SCORE BOARD #2

R&R DUGOUT

R&R DISK GOLF AND SIGN

ORANGE PLASTIC CONSTRUCTION FENCE TO PROTECT I.S.D.S. FIELD DURING CONSTRUCTION

R&D CHAIN LINK FENCE

R&D SECTION OF PIPE

R&D CATCH BASIN

ALTERNATE #4: R&R FOUL BALL POLES AND DUGOUTS

R&R FOUL BALL POST

TEMPORARY PARKING AREA

ALTERNATE #4: R&D BACKSTOP

ALTERNATE #4: R&R BLEACHERS

R&S LIGHT POLE- REFER TO ELECTRICAL DWG'S.

SAW CUT BIT. PVM'T.

RAISE RIM TO 286.00 R&D FRAME & GRATE PROVIDE FRAME & COVER LEBARON LK 256.

CAP PIPE

SAW CUT BIT. PVM'T.

RAISE RIM TO 287.85 R&D FRAME & GRATE PROVIDE FRAME & COVER LEBARON LK 256.

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

R&D C.B.

R&D PIPE

R&D SIGN

R&D CURB

R&D BIT. PVM'T.

R&D ELECTRICAL POLE - REFER TO ELECTRICAL DWG'S.

R&D HYD. & SECTION OF WATER LINE

RAISE RIM TO 292.4 REBUILD TOP OF C.B.

SAW CUT BIT. PVM'T.

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

NOTE:
THE CONTRACTOR SHALL MAINTAIN VEHICLE AND PEDESTRIAN ACCESS TO THE BACK OF THE BUILDING AT ALL TIMES.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

NOTE:
THE SITE IS LOCATED IN ZONE "X" AND DOES NOT LIE WITHIN THE 100 - YEAR FLOOD PLAIN AS DETERMINED FROM F.E.M.A. FLOOD INSURANCE RATE MAP.

NOTE:
ALL R&R AND R&S ITEMS SHOULD BE STORED AT GARAGE DURING CONSTRUCTION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
MAY - 8 2007 FILE # 07-0406
DATED
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
1 inch = 40 ft.

GRANGE ROAD

PAMONA STREET

MATCH LINE

SEE SHEET C201

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Certification

RUSSELL J. FERLAND
NO. 3636
REGISTERED PROFESSIONAL ENGINEER
2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

SITE PREPARATION PLAN

SCALE: 1"=40'

Project Number. 5575

Drawing No.

C200

Sheet 14 of 57

M:\ISTEP\ANO - 5575 - 557502\01-TIF\ 2/13/2007 2:51:38 PM

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MATCH LINE

SEE SHEET C200

ORANGE-PLASTIC CONSTRUCTION FENCE TO PROTECT I.S.D.S. FIELD DURING CONSTRUCTION

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

ADJUST RIM TO 289.9 R4D FRAME & GRATE PROVIDE FRAME & COVER LEBARON LC 246-2, W/O VENT HOLES & WITH THE WORD "DRAIN" ON COVER

R4R FOUL BALL POST

TRANSPLANT MEMORIAL TREE - LOCATION TO BE SELECTED BY ARCH.

R4R GRANITE MONUMENT & BRICKS. LOCATION TO BE SELECTED BY ARCH.

ADJUST RIM TO GRADE R4D FRAME & GRATE PROVIDE FRAME & COVER LEBARON LC 246-2, W/O VENT HOLES & WITH THE WORD "DRAIN" ON COVER

R4S GOAL POST

ALTERNATE #4: R4S GOAL POST

DISK GOLF TO REMAIN

ALTERNATE #3A: ADJUST RIM TO 305.8 R4D FRAME & GRATE PROVIDE FRAME & COVER LEBARON LC 246-2, W/O VENT HOLES & WITH THE WORD "DRAIN" ON COVER

ALTERNATE #3A: R4R SIGN #2

ALTERNATE #3A: R4R BUILDING

ADJUST RIM TO 305.4 R4D FRAME & GRATE PROVIDE FRAME & COVER LEBARON LC 246-2, W/O VENT HOLES & WITH THE WORD "DRAIN" ON COVER

ALTERNATE #4: R4S GOAL POST

R4R SIGN #5 LOCATION TO BE SELECTED BY ARCH.

ALTERNATE #3A: R4R SCORE BOARD - REFER TO ELEC. DWG'S.

ALTERNATE #3A: R4R SIGN #4 CLEAR & GRUB

ALTERNATE #3A: R4R FLAG POLE

ALTERNATE #3A: R4R STONE MEMORIAL

ALTERNATE #3A: ABANDON DRAIN LINE

R4R DISK GOLF & SIGN

ALTERNATE #3A: R4D C.B.

ALTERNATE #3A: R4D CATCH BASIN

R4D SECTION OF CHAIN LINK FENCE

ALTERNATE #3A: R4D ANGLE IRON

ALTERNATE #3A: ABANDON DRAIN LINE

ALTERNATE #3A: R4R GOAL POST

CLEAR & GRUB

ALTERNATE #3A: CAP

HAY BALE EROSION CHECK (1/C601)

EXISTING CONCESSION STANDS TO REMAIN

ALTERNATE #3A: R4R BLEACHERS

ALTERNATE #3A: R4D ANGLE IRON

ALTERNATE #3A: R4D /BLEACHERS
ALTERNATE #3A: R4D PRESS BOX

ALTERNATE #3A: R4D BENCH

ALTERNATE #3A: R4D BENCH

LIMIT OF VEGETATION CLEARING & DISTURBANCE

ALTERNATE #3A: R4D BOLLARD

RIVERBANK WETLAND 100'

RIVERBANK WETLAND 100'

ALTERNATE #3A: R4D WOOD BOLLARD

DISK GOLF TO REMAIN

DISK GOLF TO REMAIN

ALTERNATE #3A: ABANDON DRAIN LINE

ALTERNATE #3A: R4D ANGLE IRON

ALTERNATE #3A: R4D C.B.

ALTERNATE #3A: CAP

ALTERNATE #3A: R4R GOAL POST

ALTERNATE #3A: ABANDON DRAIN LINE

MATCH LINE

SEE SHEET C502

TP-7-10 TP-7-3 TP-7-11 TP-7-2 TP-7-7 TP-7-4 TP-7-8 TP-7-5 TP-7-1 TP-7-9

NOTE:
REFER TO DWG C200 FOR LEGEND & C600 FOR SOIL EROSION & SEDIMENT CONTROL NOTES.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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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 MAY - 8 2007 FILE # 07-0065
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Certification

RUSSELL J. FERLAND
NO. 9636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

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RECEIVED FEB 16 2007 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Issued On 2/9/2007

Sheet Contents

SITE PREPARATION PLAN

SCALE: 1"=40'

Project Number. 5575

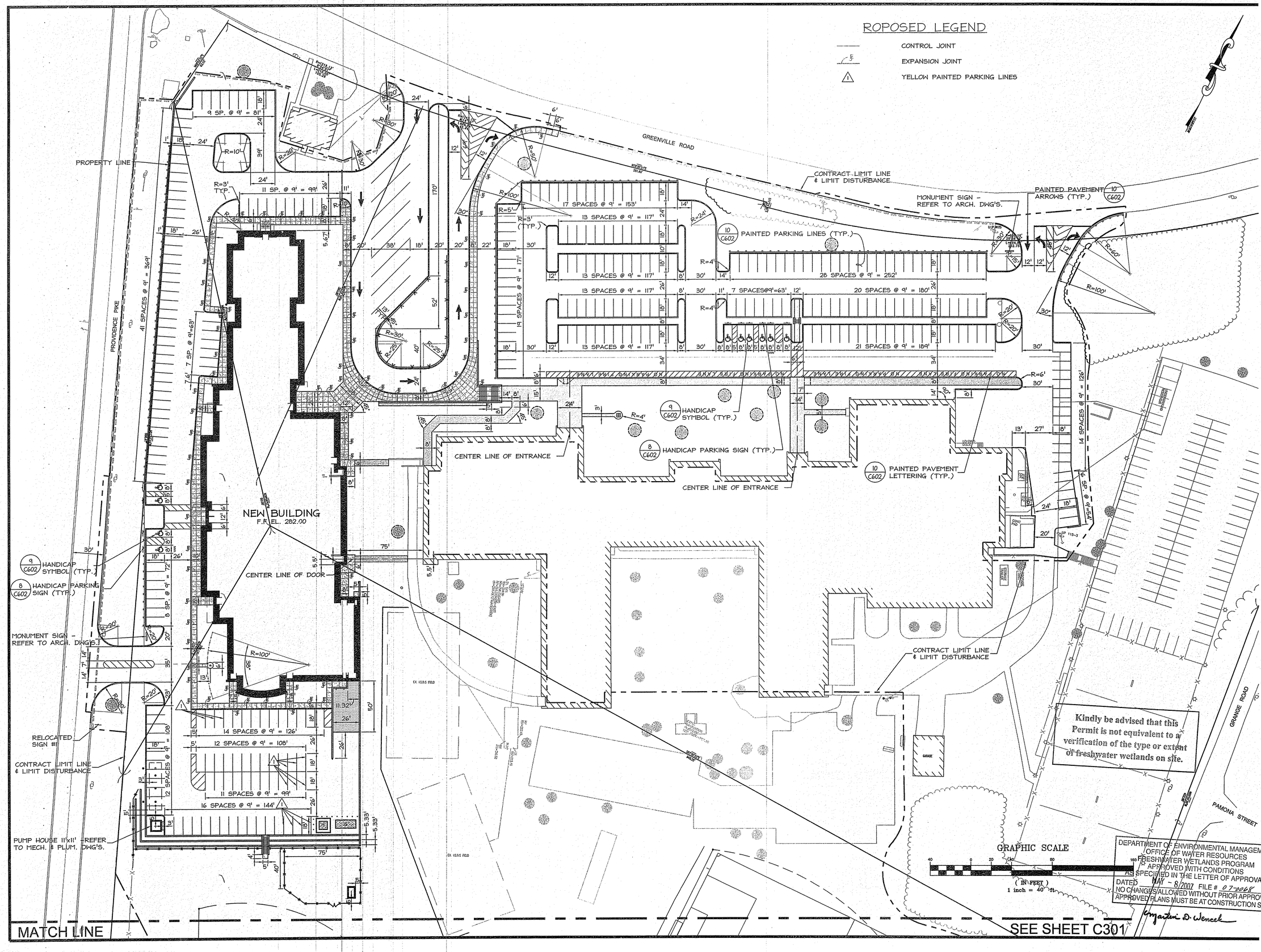
Drawing No.

C201

Sheet 15 of 57

MDISTEFANO - 5575 - 5575C300.TIF - 2/13/2007 2:51:38 PM

MDISTEFANO - 5575 - 5575C300-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



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No. 3636
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2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

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Drawing Status

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Sheet Contents

LAYOUT PLAN

SCALE: 1"=40'

Project Number. 5575

Drawing No.

C300

Sheet 16 of 57

M:\ISTEFANO - 5575 - 5575C301.TIF - 2/13/2007 2:51:38 PM
M:\ISTEFANO - 5575 - 5575C301-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

MATCH LINE

SEE SHEET C300

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

SOFTBALL FIELD (200' FOUL LINES)

ALTERNATE #4:
FIELD HOCKEY/SOCCER PRACTICE FIELD (180'x300')
AND BASEBALL FIELD (325' FOUL LINES)

BASKETBALL COURT (50'x84')

BASKETBALL COURT (50'x84')

HANDICAP SYMBOL (TYP.) 9/C602

HANDICAP PARKING SIGN (TYP.) 8/S602

R=3' TYP.

16 SPACES @ 9' = 147'
13 SPACES @ 9' =117'
13 SPACES @ 9' =117'
15 SPACES @ 9' =140'

ALTERNATE #3A:
GRANDSTAND BLEACHERS
10 ROWS (300 SEATS + 10 HC)

ALTERNATE #3B:
400 METER TRACK
(6 LANES)

ALTERNATE #3A:
FOOTBALL FIELD
W/ ARTIFICIAL TURF
(160'x360')

S.D.S.

200' WELL PROTECTION

WELL

203.5'

RIVERBANK WETLAND

100'

RIVERBANK WETLAND

100'

PARKING SCHEDULE	
EXISTING HIGH SCHOOL PARKING	261
NEW ADDITIONAL PARKING	182
PARKING AT FIELDS	60
TOTAL PROPOSED PARKING	503
(INCLUDES 13 HANDICAP SPACES)	
TOTAL PROPOSED BUS SPACES	14

PARKING SPACES 9' X 18'

ZONING PARKING CALCULATIONS FOR NEW MIDDLE SCHOOL
CAFETORIUM 3,225 SQ/ FT @ 15 SQ/ FT. PER PERSON = 215 OCCUPANTS
GYMNASIUM 7,718 SF @ 15 SQ. FT. PER PERSON = 514 OCCUPANTS
TOTAL ASSEMBLY SPACE OCCUPANTS = 729 OCCUPANTS
1 PARKING SPACE FOR EVERY 4 OCCUPANTS = 182 PARKING SPACES
REQUIRED ZONING PARKING FOR MIDDLE SCHOOL 182 SPACES

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-2068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Martin D. Wencek

NOTE:
REFER TO DWG C300 FOR LEGEND

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

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Certification

RUSSELL J. FERLAND
NO. 3636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

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OFFICE OF WATER RESOURCES

Sheet Contents

LAYOUT PLAN

SCALE: 1"=40'

Project Number. 5575

Drawing No.

C301

Sheet 17 of 57

M:\RSTEFANO - 5575 - 5575C400.TIF - 3/15/2007 8:41:52 AM
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PROPOSED LEGEND

- EXISTING SPOT GRADE TO REMAIN
- PROPOSED SPOT GRADE
- PROPOSED CONTOUR
- PROPOSED SWALE
- KEY TO SCHEDULE OF SURFACE FINISHES -REFER TO DETAIL 1/C602
- BORING LOCATION
- TEST PIT LOCATION
- TREE PROTECTION
- CONCRETE SIDEWALK - REFER TO DETAIL 1/C602
- BITUMINOUS SIDEWALK - REFER TO DETAIL 1/C602
- VEHICULAR CONCRETE - REFER TO DETAIL 1/C602

NOTE: REFER TO C401, C402, C403 & C404 FOR ENLARGED GRADING PLANS.

PRECAST CONCRETE TRANSITION CURB R.I.D.O.T. STD. 7.1.2
GATE KEEPER POST (2/C609)
CONC. WALK W/ PRECAST CONC. CURB (1/C604)
SAW CUT & MATCH BIT. PVM'T.
TREE PROTECTION (TYPICAL) (11/C602)
PRECAST CONCRETE TRANSITION CURB R.I.D.O.T. STD. 7.1.2
PRECAST CONC. CURB (TYPICAL) (2/C602)
(1/C601) HAY BALE EROSION CHECK
(3/C610 & 8/C610) CONC. RETAINING WALL #6 WITH 4' C.L. FENCE
WOOD GUARD RAIL (5/C608)
GREENVILLE ROAD
LIMIT OF VEGETATION CLEARING & DISTURBANCE
HAY BALE EROSION CHECK (1/C601)
(1/C609 & 3/C609) STEEL PIPE GATE
CONTRACT LIMIT LINE & LIMIT DISTURBANCE
PRECAST CONCRETE TRANSITION CURB R.I.D.O.T. STD. 7.1.2
(2/C602 & 5/C602) CONC. WALK W/ PRECAST CONC. CURB
4' HIGH BLACK VINYL COATED CHAIN LINK FENCE (5/C607)
SAW CUT & MATCH BIT. PVM'T.
WOOD GUARD RAIL (5/C608)
WOOD GUARD RAIL (5/C608)
LIMIT OF VEGETATION CLEARING & DISTURBANCE
(5/C608) WOOD GUARD RAIL
PROVIDENCE PIKE
CONC. STAIRS #2 W/ SIDE WALLS (4 RISERS) (2/C604)
(4/C602) WHEELCHAIR ACCESS RAMP
CONC. RETAINING WALL #1 WITH GUARD RAIL (1/C603, 1/C612)
PRECAST CONCRETE TRANSITION CURB (7/C602)
(3/C602) WHEELCHAIR ACCESS RAMP
CONC. STAIRS #1 (15 RISERS) (3/C604)
PAVED SWALE (6/C602)
SAW CUT & MATCH BIT. PVM'T.
CONC. RETAINING WALL #2 WITH GUARD RAIL (2/C603, 7/C603, 2/C612)
WHEELCHAIR ACCESS RAMP (4/C602)
(2/C602) BIT. WALK W/ PRECAST CONC. CURB

ALTERNATE #1: PROVIDE CONCRETE WALKS IN LIEU OF BITUMINOUS CONCRETE WALKS.

NEW BUILDING F.F.EL. 282.00
SAW CUT & MATCH BIT. PVM'T.
(12/C602) CAPE COD BERM R.I. STD. 7.5.1
(2/C602) PRECAST CONC. CURB
CONC. RETAINING WALL #3 WITH 4' C.L. FENCE (1/C610, 6/C610)
RELOCATED DISC GOLF SIGN
FLAGPOLE (4/C609)
DECORATIVE BOLLARDS @ 5' O.C. (6/C608)
ORANGE PLASTIC CONSTRUCTION FENCE TO PROTECT I.S.D.S. FIELD DURING CONSTRUCTION
CONTRACT LIMIT LINE & LIMIT DISTURBANCE
RELOCATED SIGN #1
(2/C607) BOLLARD (3)
CONC. RETAINING WALL #4 WITH GUARD RAIL (2/C610, 5/C610)
CONC. RETAINING WALL #4 WITH 4' C.L. FENCE & PRIVACY SLANTS (2/C610, 5/C610)
CONC. RETAINING WALL #5 WITH 4' C.L. FENCE (4/C610, 7/C610)
BOLLARDS @ 5' O.C. (2/C607)
GENERATOR PAD (6/C607)
RED GRAVEL PARKING AT COMPLETION OF PROJECT. LOAM & SEED DISTURBED AREA
(2/C615) RELOCATED FOUL POLE
PUMP HOUSE - REFER TO MECH. & PLUM. DWG'S.
(3/C607) 8' HIGH CHAIN LINK FENCE CONNECT TO EXIST. FENCE
(1/C607) CONC. STAIRS #3 W/ SIDE WALLS
TRANSFORM PAD -REFER TO ELEC. DWG'S.
(2/C615) RELOCATED FOUL POLE
TERRACING VERSA-LOK RETAINING WALL (5/C612, 1/C613)
8' HIGH CHAIN LINK FENCE (1/C607, 3/C607)
10' WIDE DOUBLE SWING GATE (4/C607)
GRANGE ROAD
PAMONA STREET

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40' ft.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0065
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Kristen D. Wencek

MATCH LINE
SEE SHEET C405

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RUSSELL J. FERLAND
NO. 3636
REGISTERED PROFESSIONAL ENGINEER
3/7/07

Drawn by JND, MAD
Checked by RJF

Revised on
1 REVISED: 3/7/2007

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents
SITE & GRADING PLAN

SCALE: 1"=40'

Project Number. 5575
Drawing No. C400

Sheet 18 of 57

MAR 15 2007

M:\STEFANO - 5575 - 5575C401.TIF - 2/13/2007 2:51:38 PM
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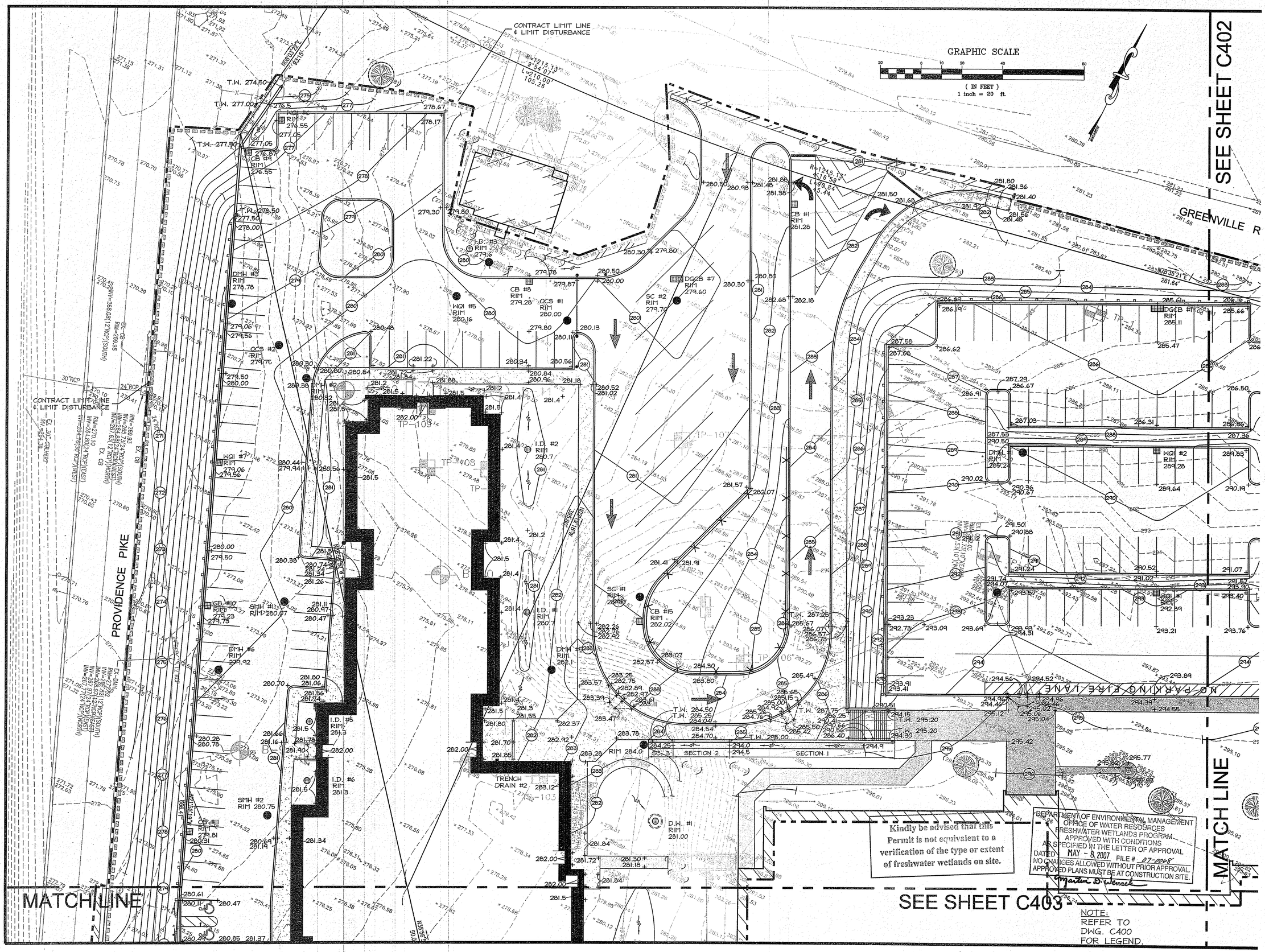

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Drawn by JND, MAD

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Revised on

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NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

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Issued On 2/9/2007

Sheet Contents

GRADING PLAN

SCALE: 1"=20'

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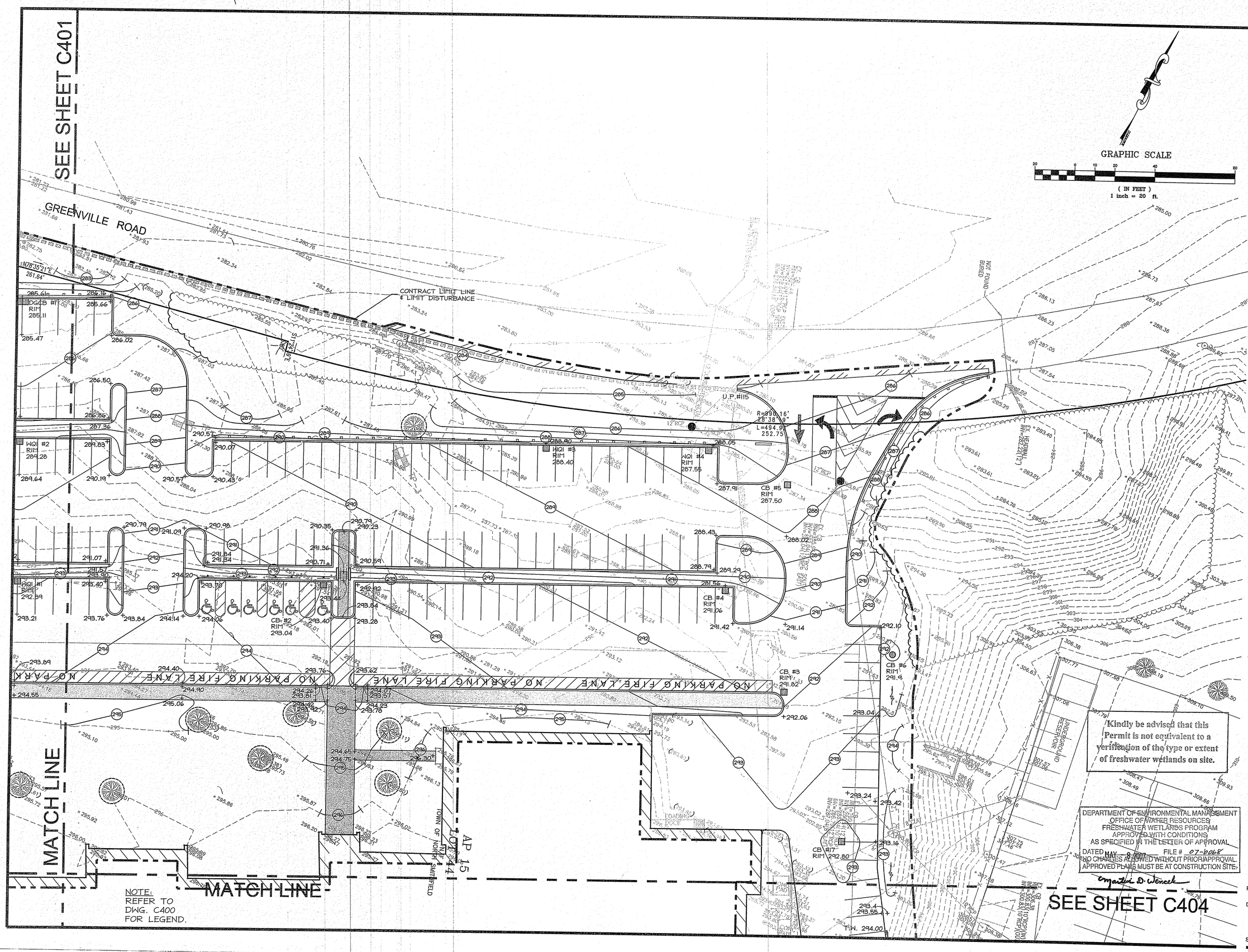
Project Number. 5575

Drawing No.

C401

Sheet 19 of 57

MDISTEFANO - 5575 - 5575C402.TIF - 2/13/2007 2:51:38 PM



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2/9/07

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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

GRADING PLAN

SCALE: 1"=20'

Project Number. 5575

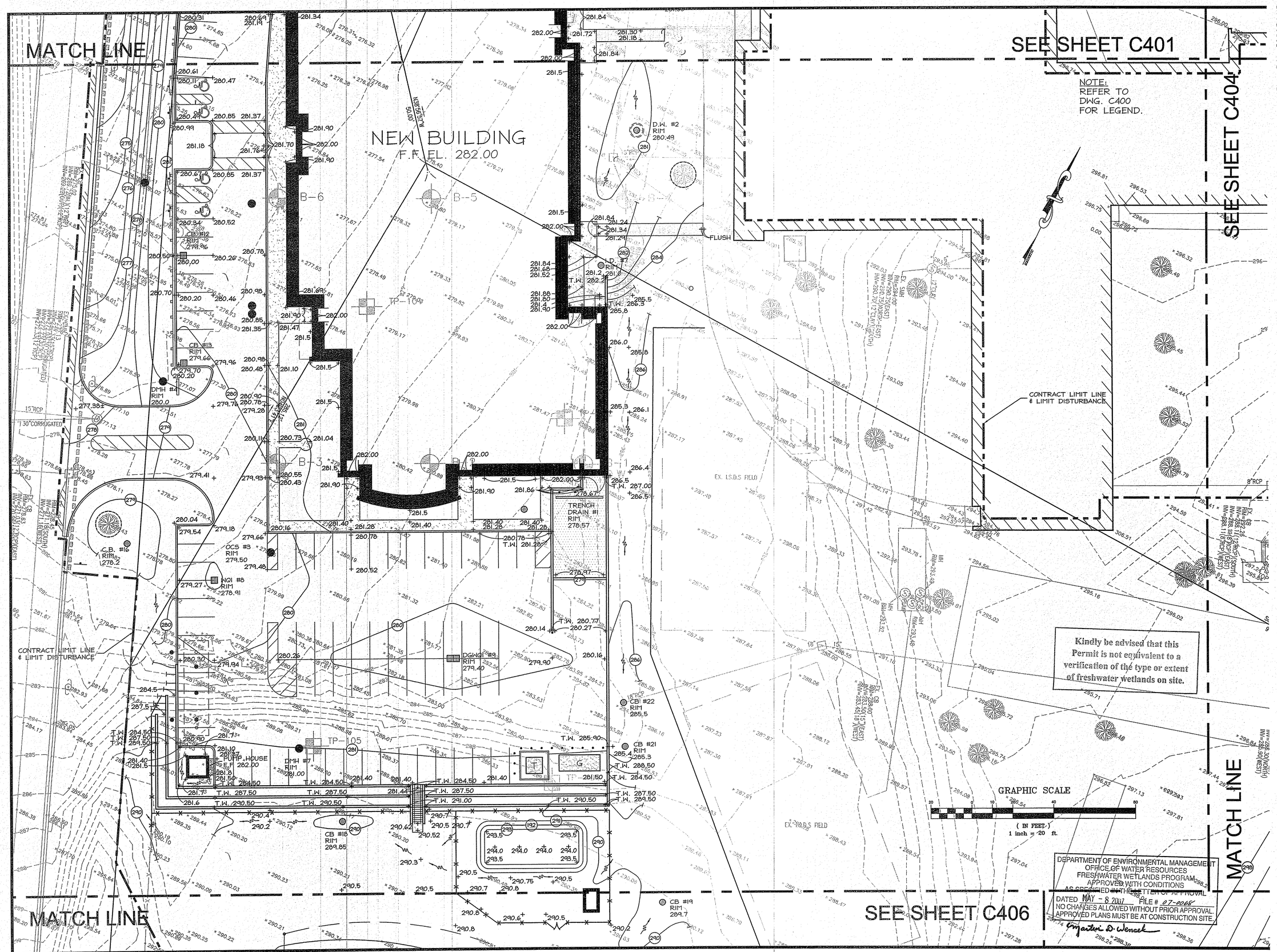
Drawing No.

C402

Sheet 20 of 57

MDISTEFANO - 5575 - 5575C403.TIF - 2/13/2007 2:51:38 PM

MDISTEFANO - 5575 - 5575C403-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



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PROFESSIONAL ENGINEER

2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

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Project

NORTH
SMITHFIELD
MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR
CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

GRADING
PLAN

SCALE: 1"=20'

Project Number. 5575

Drawing No.

C403

Sheet 21 of 57

M:\RSTEFANO - 5575 - 557\5C404.TIF - 2/13/2007 2:51:38 PM

M:\RSTEFANO - 5575 - 557\5C404-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

MATCH LINE

SEE SHEET C403

NOTE:
REFER TO
DWG. C400
FOR LEGEND.

SEE SHEET C402

CONTRACT LIMIT LINE
& LIMIT DISTURBANCE

CONTRACT LIMIT LINE
& LIMIT DISTURBANCE

CB #17
RIM 292.80

T.W. 294.00
293.72

T.W. 294.00
294.20

T.W. 296.00

GARAGE

GRANGE ROAD

PAMONA STREET

MATCH LINE

SEE SHEET C407

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GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
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NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR
CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

GRADING
PLAN

SCALE: 1"=20'

Project Number. 5575

Drawing No.

C404

Sheet 22 of 57

MURSTEFANO - 5575 - 5575C405.TIF - 2/13/2007 2:51:58 PM

MURSTEFANO - 5575 - 5575C405-LAYOUT 36 X 24.PLT - 2/9/2007 8:08:30 AM

MATCH LINE

SEE SHEET C400

RELOCATED BLEACHERS

SOFTBALL FIELD (200' FOUL LINES) (6/C615)

RELOCATED SCORE BOARD #2

ALTERNATE #3A: RELOCATED SCORE BOARD

ALTERNATE #3A: RELOCATED SIGN #2

(2/C615) RELOCATED FOUL POLE

ALTERNATE #3A: RELOCATED SIGN #4

RELOCATED DUGOUTS

RELOCATED BLEACHERS

RELOCATED DUGOUTS

RELOCATED SCORE BOARDS #1 (SEE ELEC. DWG'S.)

ALTERNATE #3A: RELOCATED BUILDING

(1,2/C618) BASKETBALL COURTS

(3/C607) CHAIN LINK FENCE

RELOCATED SIGN ON FENCE & GRANITE MONUMENT

(4/C607) 10' WIDE DOUBLE SWING GATE

(3/C608) WHEELCHAIR ACCESS RAMP

CONNECT TO EXIST. FENCE

(3/C607) 8' HIGH CHAIN LINK FENCE

(4/C607) 26' WIDE DOUBLE SWING GATE

SAW CUT & MATCH BIT. PVMT.

PRECAST CONCRETE TRANSITION CURB R.I.D.O.T. STD. 7.12

(2/C602) PRECAST CONC. CURB

(3/C607) 8' HIGH CHAIN LINK FENCE

LIMIT OF VEGETATION CLEARING & DISTURBANCE

CONNECT TO EXIST. FENCE

BASKETBALL COURT (50'x84')

BASKETBALL COURT (50'x84')

PRECAST CONCRETE BUMPER (TYPICAL) (8/C612)

RELOCATE DISK GOLF & SIGN

ALTERNATE #3A: GRANDSTAND W/ 10 ROWS (600 SEATS + 10 HC)

ALTERNATE #3B: 400 METER TRACK (6 LANES)

ALTERNATE #3A: FOOTBALL FIELD W/ ARTIFICIAL TURF (160'x360') (1/C615)

WELL

TRACK SYNTHETIC SURFACE

ALTERNATE #3A: RELOCATED GOAL POST

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

ALTERNATE #4: FIELD HOCKEY/SOCCER PRACTICE FIELD (180'x300') AND BASEBALL FIELD (325' FOUL LINES) (5/C615)

ALTERNATE #3A: RELOCATED GOAL POST

ALTERNATE #3A: RELOCATED FLAGPOLE & STONE MEMORIAL

ALTERNATE #3B: 400 METER TRACK (6 LANES WIDE) (1/C616)

(2/C615) RELOCATED FOUL POLE (COORDINATE LOCATION TO AVOID I.S.D.S.

TP-7-1 TP-7-2 TP-7-3 TP-7-4 TP-7-5 TP-7-6 TP-7-7 TP-7-8 TP-7-9 TP-7-10

100' RIVERBANK WETLAND

100' RIVERBANK WETLAND

ALTERNATE #3A: RELOCATED BLEACHERS

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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 MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

NOTE:
REFER TO C406, C407, C408 C409 & C410 FOR ENLARGED GRADING PLANS.

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MATCH LINE

SEE SHEET C502

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Certification

RUSSELL J. FERLAND
No. 3636
REGISTERED
PROFESSIONAL ENGINEER

2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

Gilbane

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Project

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1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

SITE & GRADING PLAN

SCALE: 1"=40'

RECEIVED FEB 16 2007 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Project Number. 5575

Drawing No.

C405

Sheet 23 of 57

MUSTEFANO - 5575 - 5575C406.TIF - 2/13/2007 2:51:38 PM

MUSTEFANO - 5575 - 5575C406-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

MATCH LINE

SEE SHEET C403

SEE SHEET C407

MATCH LINE

SEE SHEET C408

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

CB #19 RIM 289.7

CB #26 RIM 290.6

DHCB #26 RIM 291.3

CB #27 RIM 296.4

I.D. #34 RIM 307.1

I.D. #35 RIM 307.1

MH #8 RIM 305.6

EX. CB #18 RIM=293.70 INV=283.65(12"RCP)(WEST) INV=283.65(12"RCP)(NEST)

EX. CB #17 RIM=293.87 INV=290.04(12"RCP)(EAST)

EX. CB #14 RIM=290.41 INV=280.04(18"RCP)(NORTH)

12"RCP

11"PVC

TOWN OF NORTH SMITHFIELD A.P. 15 LOT 57 N/F

TP-7

N21°52'19"W 637.12'

GRAPHIC SCALE

20 10 0 20 40 60

(IN FEET)

1 inch = 20 ft.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

RECEIVED
FEB 16 2007
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OFFICE OF WATER RESOURCES

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Certification

RUSSELL J. FERLAND 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

Gilbane

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www.rgb.net

RGB

Architecture · Engineering · Interior Design

Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

GRADING PLAN

SCALE: 1"=20'

Project Number. 5575

Drawing No.

C406

Sheet 21 of 57

M:\SITEPLANS - 5575 - 5575C407.TIF - 2/13/2007 2:51:38 PM

M:\SITEPLANS - 5575 - 5575C407-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

MATCH LINE

SEE SHEET C406

SEE SHEET C404

MATCH LINE

MATCH LINE

SEE SHEET C409

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

N 76°16'20" W 212.90

TP-7-10

TP-7-3

TP-7-11

TP-7-2

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GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)

1 inch = 20 ft.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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AS SPECIFIED IN THE LETTER OF APPROVAL
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Maureen D. Wenzel

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NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

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Sheet Contents

GRADING PLAN

SCALE: 1"=20'

Project Number: 5575

Drawing No.

C407

Sheet 25 of 57

M:\STEFANO - 5575 - 557SC408.TIF - 2/13/2007 2:51:38 PM

M:\STEFANO - 5575 - 557SC408-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

MATCH LINE

SEE SHEET C406

SEE SHEET C409

MATCH LINE

SEE SHEET C410

MATCH LINE

CONTRACT LIMIT LINE
& LIMIT DISTURBANCE

CB #24
RIM
312.28

CB #23
RIM
312.82

WQI #10
RIM
309.14

CB #29
RIM
306.2

CB #30
RIM
306.1

I.D. #9
RIM
306.2

DMH #8
RIM
305.6

DMH #9
RIM
305.6

OCS #4
RIM
305.9

DMH #10
RIM
305.8

DMH #11
RIM
305.8

I.D. #10
RIM
306.7

DGCB #25
RIM
308.50

EX. CB
RIM=306.84
INV=295.41(12"RCP)
INV=295.51(12"RCP)

EX. CB
RIM=306.71
INV=297.91(12"RCP)
INV=297.91(24"RCP)
INV=297.76(6"RCP)
INV=297.26(30"RCP)

DESIGNED CATCH BASIN
NOT FUTURE
MAY BE BURIED

EX. HEADWALL

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Maryann D. Wenck

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2/9/07

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Revised on

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Project

NORTH
SMITHFIELD
MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR
CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

GRADING
PLAN

SCALE: 1"=20'

Project Number 5575

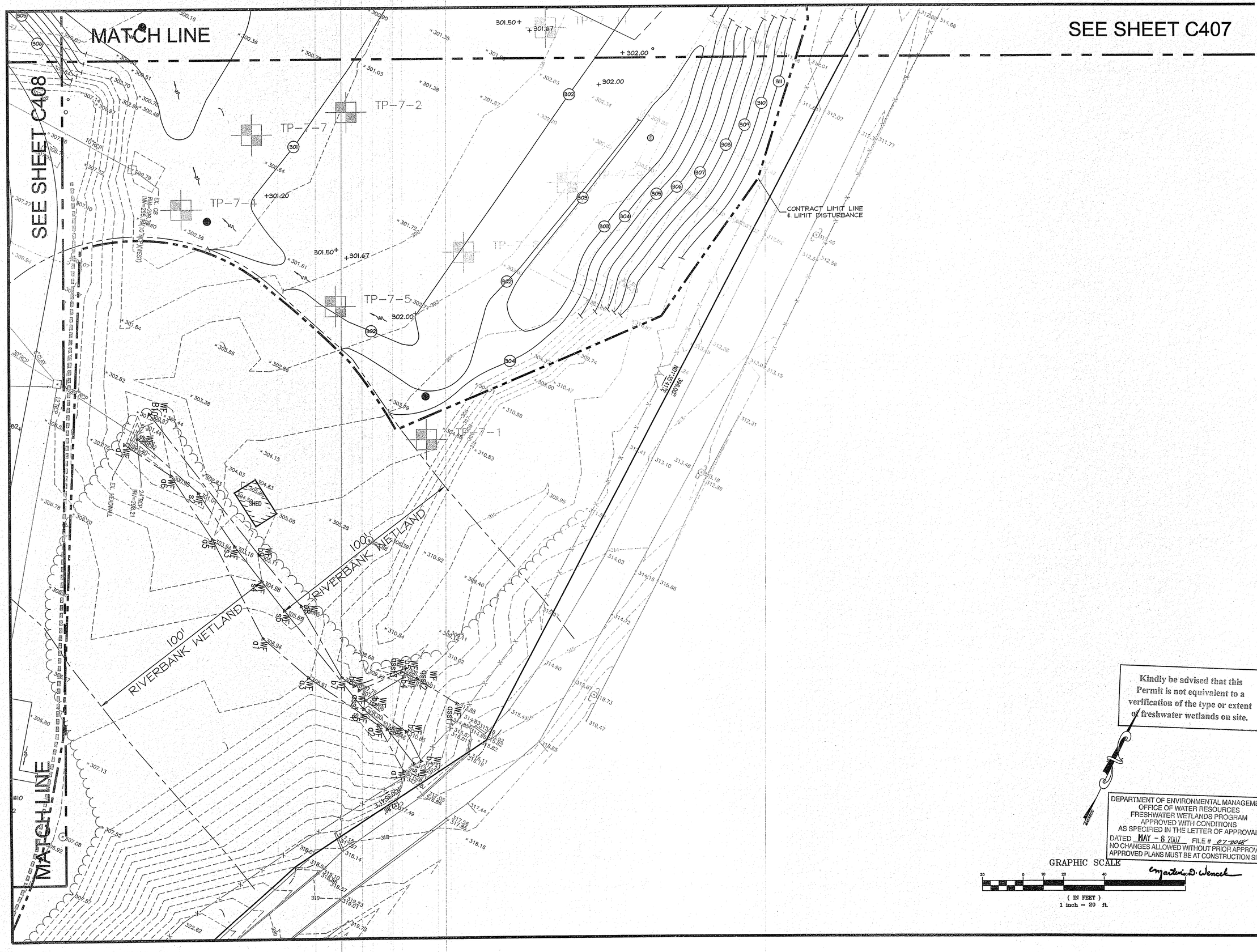
Drawing No.

C408

Sheet 26 of 57

MDISTEFANO - 5575 - 5575C409.TIF - 2/13/2007 2:51:38 PM

MDISTEFANO - 5575 - 5575C409-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



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1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
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NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

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Sheet Contents

GRADING PLAN

SCALE: 1"=20'

Project Number. 5575

Drawing No.

C409

Sheet 27 of 57

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Martin D. Wencek

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MATCH LINE

SEE SHEET C408

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

I.D. #9 RIM 306.2

DMH #12 RIM 305.6

DMH #13 RIM 305.6

I.D. #31 RIM 306.3

I.D. #32 RIM 306.3

EX CB RIM=308.11 INV=300.41(12"RCP)(WEST) INV=300.41(12"RCP)(NORTH)

EX CB RIM=307.76 INV=301.57(12"RCP)(WEST) INV=301.57(12"RCP)(NORTH)

N63°56'41"E 288.21'

N71°29'41"E 21.90'

S66°13'48"W 60.20'

S46°22'33"W 57.82'

N.S.T. 60.41'S 102.98'

N.S.T. 60.41'S 102.98'

AP 15 LOT 142 N/F GAIL T. NAVADOWSKI

AP 15 LOT 93 N/F ANNETTE C. BLANCHARD TRUSTEE

AP 15 LOT 98 N/F CHARLES & SUSAN SCOTT TE

AP 15 LOT 59 N/F LAURETTE S. EILEEN A. HEBERT

NORTH

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Engineer D. Wenck

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NORTH SMITHFIELD, RHODE ISLAND
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Sheet Contents

GRADING PLAN

SCALE: 1"=20'

Project Number. 5575

Drawing No.

C410

Sheet 28 of 57

M:\RJF\EPANO - 5575 - 557SC500.TIF - 3/15/2007 8:41:52 AM

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PROPOSED LEGEND

NW	NEW WATER LINE
NF	NEW FIRE LINE (NON-PORTABLE)
ND	NEW STORM DRAIN LINE
RD	NEW ROOF DRAIN
FM	NEW FORCE MAIN SEWER
NS	NEW SEWER LINE
DBP	NEW DRAIN BACK PIPE
NG	NEW GAS LINE
	NEW CATCH BASIN
C.I.	CURB INLET
	NEW MANHOLE
DS	CONDUCTOR BOOT - REFER TO PLUMBING DWG'S.
SB	SPLASH BLOCK (5 C609)
	NEW GATE VALVE
	NEW THRUST BLOCK (T.B.)
B-1	BORING LOCATION
TP-1	TEST PIT LOCATION

NOTE:
REFER TO DWG C600 FOR GENERAL NOTES.

WQI #6 w/ C.I. (3 C601 / 4 C601)
RIM 276.55
INV.IN 272.32
INV. OUT 272.22
CB #9 W/ C.I. (5 C601 / 4 C601)
RIM 276.55
INV.I OUT 272.55

WQI #5 w/FRAME & COVER (3 C601)
RIM 280.16
INV. 4"IN 275.80
INV. 12"IN 274.32
INV. 12"OUT 274.22

DMH #3 (7 C601)
RIM 278.78
INV. IN 274.12
INV. OUT 274.12

OUTLET CONTROL STRUCTURE #2 (3 C605)
RIM 279.75
INV.' IN 271.97
INV. OUT 271.87

DMH #2 (7 C601)
RIM 280.32
INV. IN 271.67
INV. OUT 271.67

WQI #7 W/ C.I. (3 C601 / 4 C601)
RIM 274.06
INV.IN 274.59
INV. OUT 274.59

ACID WASTE NEUTRAIZER - REFER TO PLUMBING DWG'S.

CB #10 W/ C.I. (4 C601 / 5 C601)
RIM 276.23
INV.IN 275.06
INV. OUT 275.06

RAISE RIM TO 277.00 & REBUILD TOP OF D.M.H.
CONNECT TO EXIST DMH @ INV. 267.97
2' MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT

DMH #6 (7 C601)
RIM 279.92
INV. 4" IN 276.10
INV. 12" IN N 269.28
INV. 12" IN S 269.78
INV. 18" IN 268.78
INV. 24" OUT 268.28

I.D. #5 (2 C608)
RIM 281.3
INV. IN 277.20
INV. OUT 277.10

I.D. #6 (1 C608)
RIM 281.3
INV .OUT 277.95

CB #11 W/ C.I. (4 C601 / 5 C601)
RIM 279.81
INV. OUT 275.81

RAISE RIM TO 278.75
R4D FRAME & GRAITE
PROVIDE FRAME & COVER LeBARON LK 256.
CUT INTO EXIST. CB @ INV. 269.32 2' MAX PIPE STUB, PATCH W/ NON-SHRINK GROUT

CB #12 (5 C601)
RIM. 279.96
INV. OUT 276.26

CB #13 (5 C601)
RIM 279.66
INV. 12" IN 276.86
INV.OUT 275.86

DMH #4 (7 C601)
RIM 280.10
INV. IN 271.52
INV. OUT 271.42

RAISE D.M.H. RIM TO 278.10
CUT INTO EXIST. CB @ INV. 272.23 2' MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT

CB #16 (5 C601)
RIM 278.12
INV. OUT 270.74

WQI #8 (3 C601)
RIM 278.91
INV.IN 274.92
INV. OUT 274.92

CONTRACT LIMIT LINE & LIMIT DISTURBANCE
5" STORZ CONNECTION - REFER TO PLUM. DWG. P500
U.G. TANK W/ CONC. HOLD-DOWN PAD. - REFER TO PLUM DWG P500
8" VENT - REFER TO PLUM. DWG P500
PUMP HOUSE - REFER TO MECH. & PLUM. DWG'S.

DMH #7 (7 C601)
RIM 281.00
INV. 12"IN 276.00
INV. 30"IN 274.00
INV. OUT 274.00

CB #18 (5 C601)
RIM 284.85
INV. OUT 275.85

UNDERGROUND DETENTION SYSTEM #1 (2 C600)

CB #1 (4 C601 / 5 C601)
RIM 281.28
INV.IN 277.28
INV. OUT 277.18

CB #3 (4 C601 / 5 C601)
RIM 279.6
INV.OUT 274.87

I.D. #3 (1 C608)
RIM 279.6
INV .OUT 276.26

HYDRANT (8 C603)

OUTLET CONTROL STRUCTURE #1 (1 C605)
RIM 280.00
INV. IN 273.50
INV. OUT 273.40

STORMCEPTOR #2 STC 900
RIM 279.70
INV. IN 275.42
INV. OUT 275.34

DGCB #7 (6 C601)
RIM 279.60
INV. IN 275.60
INV. OUT 275.50

WQI #2 W/ C.I. (3 C601 / 4 C601)
RIM 284.28
INV. OUT 285.28

DMH #1 (7 C601)
RIM 290.00
INV. IN 285.24
INV. OUT 283.50

DGCB #1 W/ C.I. (4 C601 / 6 C601)
RIM 285.11
INV. IN 281.50
INV. OUT 281.00

GREENVILLE ROAD

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

OUTLET CONTROL STRUC. #5 (3 C622)
RIM 288.17
INV. IN 281.00
INV. OUT 280.90

WQI #3 W/ C.I. (3 C601 / 4 C601)
RIM 288.40
INV. OUT 284.00

INV. OUT 283.00
INV. IN 283.07
INV. IN 283.04
INV. IN 283.00
INV. OUT 285.50
INV. IN 285.00

CUT INTO EXIST. CB @ INV. 280.50, 2' MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT
RAISE RIM TO 286.00
R4D FRAME & GRATE
PROVIDE FRAME & COVER LEBARON LK 256.

CB #4 W/ C.I. (5 C601 / 4 C601)
RIM 287.76
INV. OUT 283.76

WQI #11 (3 C601)
RIM 288.19
INV. IN N 283.50
INV. IN E 283.25
INV. OUT 283.25

RAISE RIM TO 287.85
R4D FRAME & GRATE
PROVIDE FRAME & COVER LEBARON LK 256.

CB #5 W/ C.I. (5 C601)
RIM 287.50
INV. OUT 283.54

WQI #4 W/ C.I. (3 C601 / 4 C601)
RIM 291.78
INV. IN 287.00
INV. OUT 284.50

HYDRANT (8 C603)

6x6 TEE & T.B. W/ 6" G.V. & BOX (9 C603)

CB #3 (5 C601)
RIM 291.82
INV. OUT 287.82

WELL A

CAP, STRAP & T.B. (9 C608)

PRESURE TEST EXISTING FIRE LINES PRIOR TO CONNECTING TO NEW SYSTEM

UNDERGROUND INFILTRATION SYSTEM #1 (1 C600)

WQI #1 W/ C.I. (3 C601 / 4 C601)
RIM 292.89
INV. IN 286.92
INV. OUT 286.75

CB #2 W/ C.I. (5 C601 / 4 C601)
RIM 293.04
INV .OUT 289.00

CUT INTO EXIST. CB @ INV. 287.63 2'MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT

CUT IN NEW 6x6 TEE & T.B. W/ 6" G.V. & BOX (9 C603)

UNDERGROUND DETENTION SYSTEM #2 (2 C600)

I.S.D.S. SYSTEM

	INVERT IN	INVERT OUT
BUILDING SEWER		(1) 274.00
ACID WASTE NEUTRAIZER	(2) 278.00	(3) -
SMH #1 RIM 280.07	(4) 275.15	(5) 275.05
SMH #2 RIM 280.75	(6) 273.85	(7) 273.80
SEPTIC TANK	(8) 272.80	(9) 275.50
ANOXIC TANK	(10) 286.42	(11) 286.17
RECIRC. TANK	(12) 286.00	(13) 287.83

UNDERGROUND DETENTION SYSTEM #3
STORMCEPTOR #1 STC 900
RIM 281.87
INV. IN 275.68
INV. OUT 275.60

CB #15
RIM 282.02
INV. 4"IN 278.68 INV. 12"IN 276.03
INV. OUT 275.78

DRYWELL #1
RIM 281.00
INV. OUT 277.50 CUT IN NEW 10"x6" WYE

U.G. PROPANE TANKS-REFER TO PLUM. DWG.

CUT INTO EXIST. CB @ INV. 276.09 2' MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT

I.D. #7
RIM 281.0
INV .OUT 277.00

I.D. #12
RIM 281.2
INV. OUT 277.70

TRENCH DRAIN #1
RIM 278.57±
INV. OUT 277.75

PIV
HYDRANT (8 C603)

UNDERGROUND DETENTION SYSTEM #5 (2 C611)

DGNOI #9
RIM 279.40
INV. OUT 275.15

6,000 GAL. U/G OIL TANK - REFER TO PLUM. DWG'S.

CB #22
RIM 285.5
INV. EXIST. 18"IN 280.4±
INV. 18"OUT 280.30

CB #21
RIM 285.3
INV. 18"IN 279.60
INV. 30"IN 279.50
INV. OUT 275.50

8'X12' SHED PAD (1 C622)

CB #19
RIM 289.7
INV. IN 280.94
INV. OUT 280.84

TEMPORARY PARKING AREA

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

NOTE:
THE CONTRACTOR SHALL MAINTAIN VEHICLE AND PEDESTRIAN ACCESS TO THE BACK OF THE BUILDING AT ALL TIMES.

NOTE:
THE SITE IS LOCATED IN ZONE "X" AND DOES NOT LIE WITHIN THE 100 - YEAR FLOOD PLAIN AS DETERMINED FROM F.E.M.A. FLOOD INSURANCE RATE MAP.

Kindly be advised that this Permit is not equivalent to verification of the type or extent of freshwater wetlands on site.

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
1 inch = 40 ft.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAY 7 2007 FILE # 07-2065
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Christine D. Wenck

PROVIDENCE PIKE

GRANGE ROAD

RAMONA STREET

FDC

SEPTIC TANK (5 C618 / 1 C620 / LC256)

DRYWELL #2
RIM 280.49
INV. OUT 277.50 CUT IN NEW 10"x6" WYE

COF/G (5 C614)
INV. 277.00
GREASE TRAP
INV.IN 277.60
INV.OUT 277.35

OUTLET CONTROL STRUC. #3
RIM 279.50
INV. IN 272.74
INV. OUT 272.64

INV. 276.00
INV. 276.50

INV. IN 275.09
INV. 36" OUT 272.74
INV. IN 274.74
INV. IN 274.90
FM INV. 277.0

PVC SCH 40 SOLVENT WELD JOINTS

PROVIDE 2" RIGID INSULATION OVER PIPE

FM INV. 278.8
4 - ADVANTEX AX100 PODS

12,000 GAL. COMINGLE TANK

12,000 GAL. RECIRC. TANK

8,000 GAL. ANOXIC TANK

MATCH LINE

SEE SHEET C501

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Certification

RUSSELL J. FEHLAND NO. 8636 REGISTERED PROFESSIONAL ENGINEER

3/7/07

Drawn by JND, MAD

Checked by RJF

Revised on

1 ADDENDUM #1: 3/1/2007
SEPTIC SYSTEM, WELL & WATER LINE REVISIONS

2 REVISED: 3/7/2007

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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

UTILITY PLAN

SCALE: 1"=40'

Project Number. 5575

Drawing No.

C500

Sheet 29 of 57

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MATCH LINE

SEE SHEET C500

MATCH LINE

SEE SHEET C502

12,000 GAL. RECIRC. TANK (4/C618, 3/C619)

1,500 GAL. DOSE TANK (1/C621)

DOGHOUSE CB #28(BASE BID) (5/C601, 7/C612)
RIM 291.3
INV.IN 286.25
INV. 30"EXIST 286.1±

CB #26(BASE BID) (5/C601)
RIM 290.6
INV. OUT 286.90

I.D. #35(BASE BID) (2/C608)
RIM 307.1
INV. IN 302.75
INV. OUT 302.65

I.D. #34(BASE BID) (1/C608)
RIM 307.1
INV OUT 303.10

DMH #8(BASE BID) (7/C601)
RIM 305.6
INV. 6" IN 304.10
INV. 10" IN 301.20
INV. 12" IN 302.00
INV. OUT 301.10

OUTLET CONTROL STRUCTURE #4(BASE BID) (1/C614)
RIM 305.9
INV. 36"IN 298.85
INV. OUT 298.15

D.G.C.B.#25 W/C.I.(BASE BID) (4/C601, 5/C601, 6/C601)
RIM 308.50
INV.IN 304.50
INV. OUT 304.40

CB #24(BASE BID) (5/C601)
RIM 312.28
INV. IN 308.28
INV. OUT 308.18

WQI #10(BASE BID) (3/C601)
RIM 309.14
INV. IN 303.75
INV. OUT 303.65

C.B. #29(BASE BID) (5/C601)
RIM 306.2
INV. IN 302.20
INV OUT 302.10

CB #23(BASE BID) (5/C601)
RIM 312.82
INV. OUT 308.82

C.B. #30(BASE BID) (5/C601)
RIM 306.1
INV IN 301.05
INV OUT 300.95

DMH #10(BASE BID) (4/C601)
RIM 305.8
INV. 6" IN 304.10
INV. 10" IN 302.25
INV. 12" IN 302.80
INV. 15" IN 300.55
INV. OUT 300.30

I.D. #9 (11/C608)
RIM 306.2
INV OUT 302.20

CLEAN OUT (3/C617)
INV 302.75

DMH #12
RIM 305.6
INV. 6" IN 304.10
INV. 8" IN 301.81
INV. OUT 301.71

I.D. #8 (1/C608)
RIM 306.3
INV OUT 302.30

CUT INTO EXIST. CB @ INV. OUT TO MATCH EXIST. 2' MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT

BENCH MARK: CB RIM 287.40

SOFTBALL FIELD (200' FOUL LINES)

FM INV. 288.0

FM INV. 288.5

COF/G INV. 288.9 (5/C614)

DBP INV. 289.6

FM INV. 293.5

FM INV. 294.5

DBP DROP COF/G INV. 294.5 INV. 290.1 CONNECT TO EXIST. CB @ INV. 296.85 2' MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT (BASE BID)

CB #27(BASE BID) (5/C601)
RIM 296.4
INV. IN 291.55
INV. OUT 287.20

LINEAR TRACK DRAIN INLINE C.B. RIM 306.60 INV 6" OUT 304.96 (1/C617)

SLOT CHANNEL LINEAR TRACK DRAIN RIM 306.60

DMH #9
RIM 305.6
INV. 6" IN 304.10
INV. 10" IN 301.20
INV. OUT 301.10

2" TO 4" INCREASER (7/C601)

CAP INV 302.00

BASKETBALL COURT (50'x84')

BASKETBALL COURT (50'x84')

BENCH MARK: CB RIM 299.79

DMH #16
RIM 299.8
INV. IN 293.35
INV. OUT 293.25

INV. OUT 298.25
INV. IN 300.00
INV. IN 300.25
INV. IN 300.80

LINEAR TRACK DRAIN INLINE C.B. RIM 306.60 INV 6" OUT 304.96 (1/C617)

ALTERNATE #3B: 400 METER TRACK (6 LANES)

ALTERNATE #3A: FOOTBALL FIELD W/ ARTIFICIAL TURF & UNDERDRAIN SYSTEM (160'x360')

CAP INV 302.75

INV. IN 300.63
INV. IN 300.13
INV. IN 298.67

LINEAR TRACK DRAIN INLINE C.B. RIM 306.60 INV 6" OUT 304.96 (1/C617)

LINEAR TRACK DRAIN INLINE C.B. RIM 306.60 INV 6" OUT 304.96 (1/C617)

CLEAN OUT INV 302.75 (3/C617)

CONNECT TO EXIST. CB @ INV. 302.43 2'MAX. PIPE STUB, PATCH W/ NON-SHRINK GROUT

DMH #13
RIM 305.6
INV. 6" IN 304.10
INV. 12" IN 301.65
INV. OUT 301.65 (7/C601)

200' WELL PROTECTION

WELL

CONTRACT LIMIT LINE & LIMIT DISTURBANCE

ALTERNATE #4: FIELD HOCKEY/SOCCER PRACTICE FIELD (180'x300') AND BASEBALL FIELD (325' FOUL LINES)

INV. 300.50

INV. 301.00

INV. 297.80

CELL #3 45'x146' (1,350 LF) PSNDF (3/C600)

CELL #4 45'x146' (1,350 LF) PSNDF (3/C600)

DIST. VALVE INV. 299.80

INV. 298.50

INV. 297.10
FM INV. 296.5

LINEAR TRACK DRAIN INLINE C.B. RIM 306.60 INV 6" OUT 304.96 (1/C617)

DMH #16
RIM 299.8
INV. IN 293.35
INV. OUT 293.25 (7/C601)

INV. 300.50
INV. 300.50
DIST. VALVE INV. 299.30

INV. 301.00

INV. 297.80

CELL #1 45'x146' (1,350 LF) PSNDF (3/C600)

CELL #2 45'x146' (1,350 LF) PSNDF (3/C600)

INV. 298.50
INV. 300.50

INV. 300.50
INV. 301.00

DMH #15
RIM 300.7
INV. IN 294.45
INV. OUT 294.35 (7/C601)

CAP

INV. 301.00

DMH #14
RIM 303.6
INV. IN 295.95
INV. OUT 295.85 (7/C601)

CB #20
RIM 301.9
INV. OUT 297.65 (5/C601)

FIELD UNDERDRAIN SYSTEM (6/C617)

RIVERBANK WETLAND 100' 170'

DMH #1
RIM 305.8
INV. 6" IN 304.10
INV. 10" IN 302.25
INV. 12" IN 300.80
INV. OUT 300.80 (7/C601)

I.D. #10
RIM 306.2
INV OUT 302.20 (1/C608)

UNDERGROUND DETENTION SYSTEM #6 (BASE BID) (3/C614)

NOTE:
I.S.D.S. REPLACEMENT FIELD AREA IS IN BETWEEN TRENCHES.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

LEGEND: (signature) D. Wenczek

CF-7 CONSTRUCTION FLAG

NOTE:
REFER TO DWG C500 FOR LEGEND AND C600 FOR GENERAL NOTES.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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Certification

RUSSELL J. FERRUCCI
NO. 3636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by JND, MAD

Checked by RJF

Revised on

Gilbane

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NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Issued On 2/9/2007

Sheet Contents

UTILITY PLAN

SCALE: 1"=40'

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Project Number. 5575

Drawing No.

C501

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2/9/07

Drawn by JND, MAD

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Revised on

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

Sheet Contents

SITE PREPARATION, LAYOUT, SITE & GRADING, UTILITY PLANS - SCALE: 1"=40'

Project Number. 5575

Drawing No.

C502

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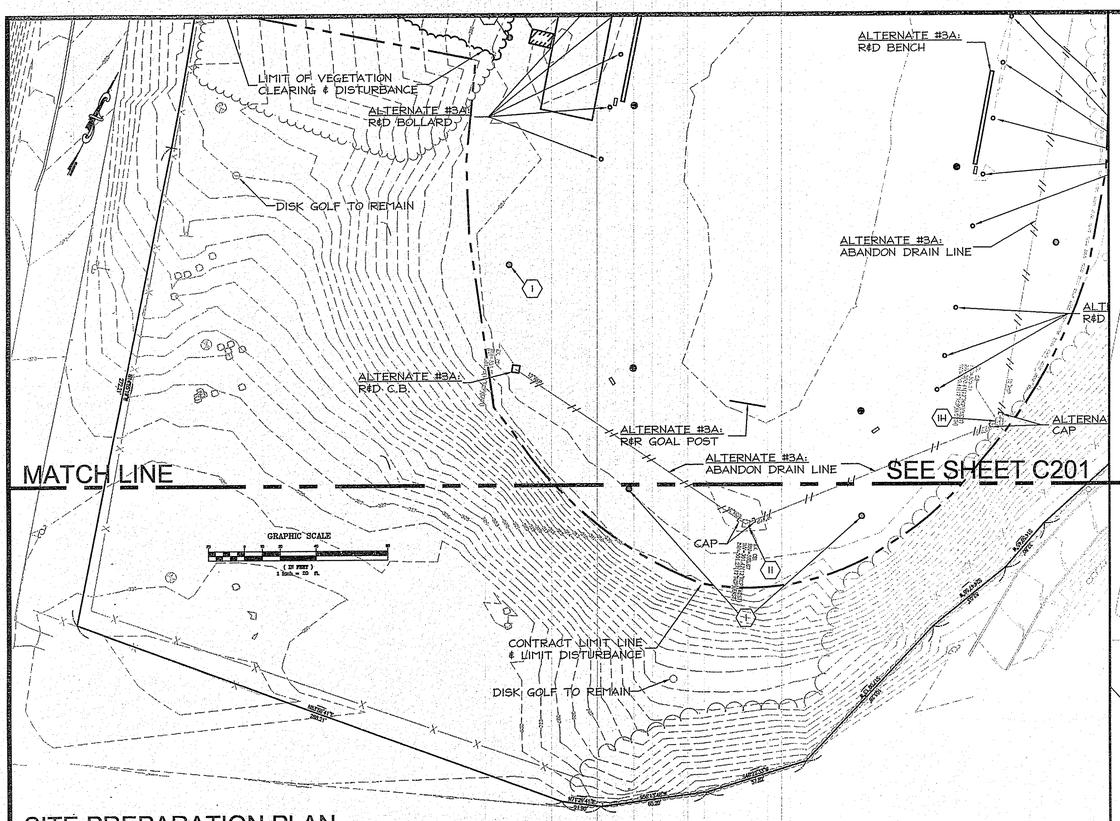
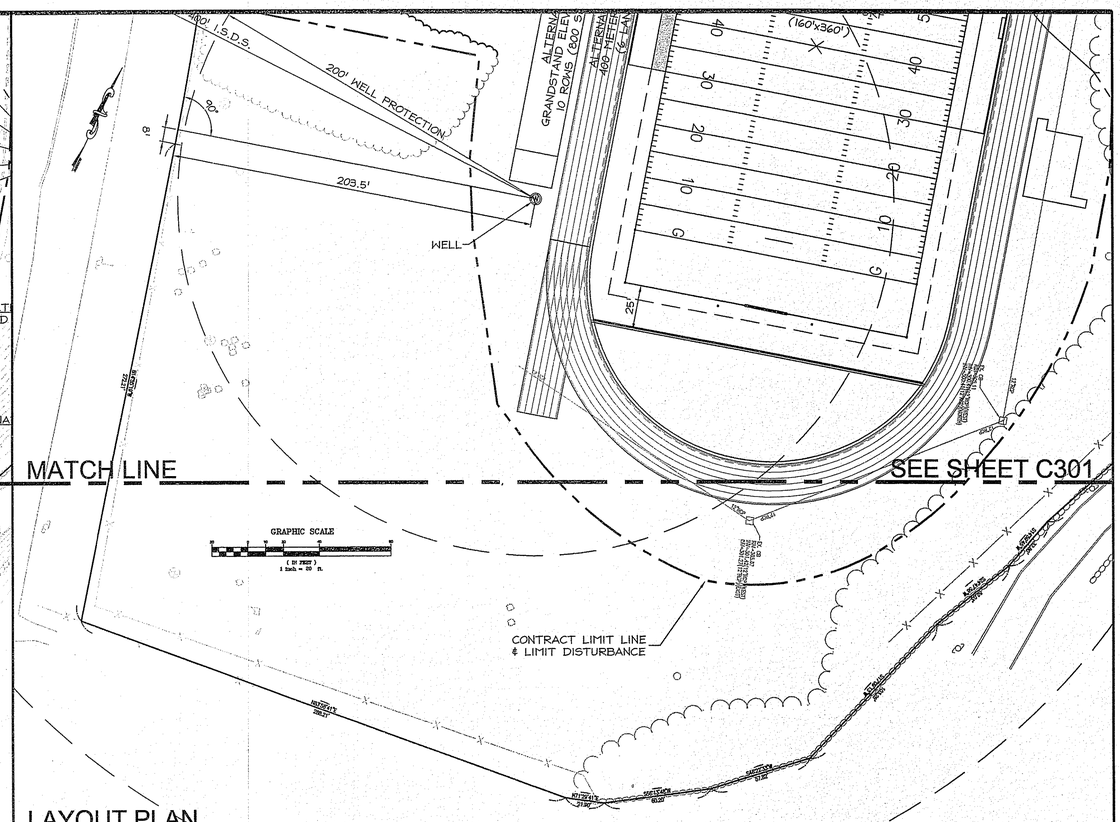
SITE PREPARATION PLAN



LAYOUT PLAN



SITE & GRADING PLAN

UTILITY PLAN

Kindly be advised that this Permit is not equivalent to a verification of the type of extent of freshwater wetlands on site.

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SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE PREVENTION OF SEDIMENT DISCHARGES TO OFF-SITE PROPERTIES.
2. THE CONTRACTOR SHALL MAINTAIN A STOCKPILE OF 20 HAY BALES AND 40 WOODEN STAKES TO FACILITATE PROMPT REPAIRS.
3. PRIOR TO ANY CONSTRUCTION, THE CONTRACT LIMIT LINES SHALL BE ESTABLISHED IN THE FIELD. BALED HAY EROSION CHECKS SHALL THEN BE PLACED, LOCATIONS AS SHOWN ON THE PLANS.
4. BALED HAY EROSION CHECKS SHALL BE INSPECTED AT THE END OF EACH WORK WEEK AND AFTER ANY RAINFALL OF ONE INCH OR MORE DURING A 24-HOUR PERIOD, UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED ON FINISH SLOPES. MAINTENANCE AND REPAIRS SHALL BE PERFORMED AS REQUIRED TO MAINTAIN PROPER FUNCTIONING. HAY BALES SHALL BE REPLACED WHEN THEY NO LONGER FUNCTION PROPERLY.
5. SEDIMENT BUILD-UP ALONG THE BALED HAY EROSION CHECKS SHALL BE REMOVED AND DISPOSED OF WHEN THE SEDIMENT DEPTH EXCEEDS 8 INCHES.
6. ALL DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND THE EMBANKMENTS STABILIZED AS SOON AS POSSIBLE AFTER CONSTRUCTION COMMENCES.
7. PROVIDE SILT SACK EROSION CHECKS AT ALL CATCH BASINS WITHIN THE CONTRACT LIMIT LINE DURING THE CONSTRUCTION.
8. IF DESIGNATED EROSION CONTROLS DO NOT CONTAIN EROSION COMPLETELY, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD.
9. STOCKPILES OF TOPSOIL SHALL ALSO HAVE HAY BALE EROSION CHECKS AROUND THE LOWER PERIMETER.
10. ANY STRIPPED OR EXPOSED AREAS THAT ARE NOT IN CONTINUOUS USE SHALL BE MULCHED.
11. STABILIZE SLOPES STEEPER THAN 3:1 (HORIZONTAL TO VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC, OR RIP RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
12. SWEEP ADJACENT PAVED STREETS DURING CONSTRUCTION, WHENEVER DEBRIS, GRAVEL, ASPHALT, ETC. IS SPILLED.
13. CLEAN OUT CATCH BASINS, DRAIN MANHOLES AND WATER QUALITY STRUCTURES WITHIN CONTRACT LIMITS AFTER COMPLETION OF CONSTRUCTION.
14. REMOVE AND DISPOSE OF ALL EROSION AND SEDIMENT CONTROLS ONLY AFTER PERMANENT VEGETATIVE COVER IS ESTABLISHED AND ACCEPTED BY THE OWNER AND THE ENGINEER.
15. ALL AREAS DISTURBED BY CONSTRUCTION AND NOT INDICATED TO RECEIVE ANY OTHER FORM OF SURFACE TREATMENT SHALL BE LOAMED AND SEEDED.

GENERAL NOTES:

DIG SAFE 1-888-344-7233

1. BEFORE BEGINNING ANY EXCAVATION OR DEMOLITION, GIVE A MINIMUM OF SEVENTY - TWO (72) HOUR NOTICE EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, TO ALL UTILITY COMPANIES WITHIN THE AREA. ALSO, CALL "DIG SAFE" AT 1-888-344-7233 IN MAINE, NEW HAMPSHIRE, VERMONT, MASSACHUSETTS AND RHODE ISLAND, TO NOTIFY MEMBER UTILITIES. CONTRACTOR SHALL ALSO CONFORM TO CHAPTER 39-1.2 OF THE GENERAL LAWS OF THE STATE OF RHODE ISLAND, ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES". (CT 1-800-922-4455 OR 1-203-281-5435)
2. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. CHECK AND VERIFY LOCATION AND DEPTHS OF ALL UTILITIES, BOTH UNDERGROUND AND OVERHEAD BEFORE BEGINNING ANY EXCAVATING. REPAIR AND PAY FOR ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT SHOWN, AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR IS TO PROVIDE ALL WATER TAPS, PIPING, FIRE HYDRANTS, GATE VALVES, CURB STOPS, ETC. IN ACCORDANCE WITH NORTH SMITHFIELD WATER DEPARTMENT.
4. PATCHING OF STREETS AND SIDEWALKS MUST CONFORM TO THE NORTH SMITHFIELD AND/OR RIDOT SPECIFICATIONS AND STANDARDS. EXTENT AND WIDTH OF PATCHING SHALL BE AS REQUIRED BY THE LOCAL JURISDICTION.
5. THE COST TO PROVIDE TRAFFIC CONTROL SIGNS (STOP, DO NOT ENTER, AUTHORIZED VEHICLES ONLY, HANDICAPPED PARKING, ETC.) ARE INCLUDED IN THE BASE BID. THESE SIGNS ARE NOT INCLUDED AS PART OF THE GRAPHIC ALLOWANCE.
6. ALL EXISTING STORM DRAIN PIPING TO REMAIN SHALL BE CLEANED AND FLUSHED.

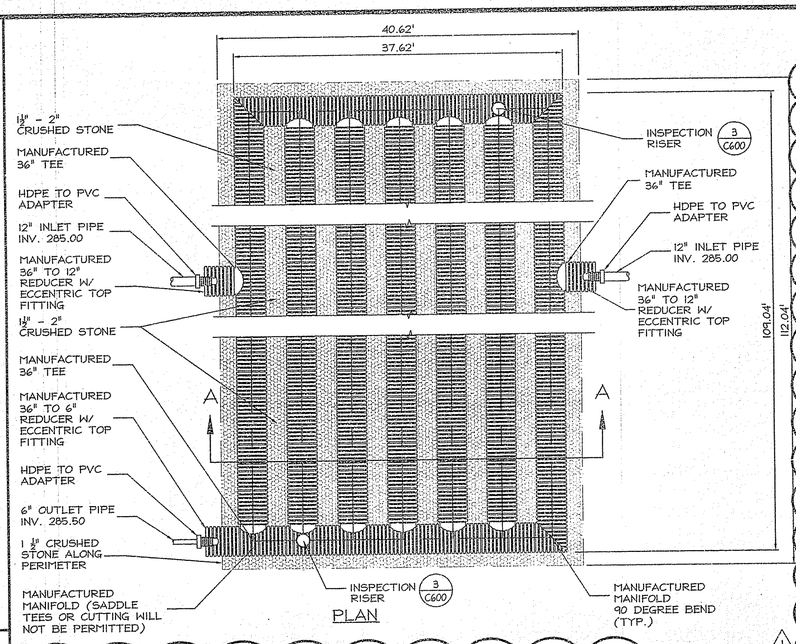
UNDERGROUND INFILTRATION SYSTEM MAINTENANCE PLAN:

POST CONSTRUCTION REVIEW AND MAINTENANCE: (BY CONTRACTOR)

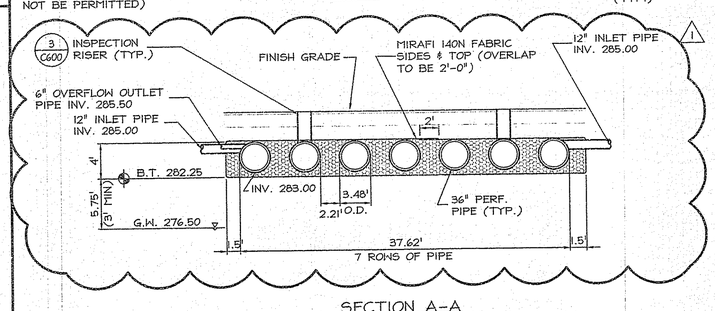
1. BEFORE THE DEVELOPMENT SITE IS GRADED, THE AREA FOR THE INFILTRATION SYSTEM SHALL BE ROPED OFF TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE UNDERLYING SOILS.
2. DIVERSION BERMS SHALL BE PLACED AROUND THE PERIMETER DURING ALL PHASES OF CONSTRUCTION. SEDIMENT AND EROSION CONTROLS SHALL BE USED TO KEEP RUNOFF AND SEDIMENT AWAY FROM THE INFILTRATION SYSTEM AREA.
3. DURING AND AFTER EXCAVATION, ALL EXCAVATED MATERIALS SHALL BE PLACED DOWNSTREAM, AWAY FROM THE INFILTRATION SYSTEM, TO PREVENT REDEPOSITION OF THESE MATERIALS DURING RUNOFF EVENTS. ALL EXCAVATED MATERIALS SHALL BE PROPERLY HANDLED AND DISPOSED, DURING AND AFTER CONSTRUCTION.
4. LIGHT EARTH-MOVING EQUIPMENT (LESS THAN 20,000 LBS.) SHALL BE USED FOR EXCAVATION. USE OF HEAVY EQUIPMENT CAUSES COMPACTION OF THE SOILS BENEATH THE INFILTRATION SYSTEM FLOOR, RESULTING IN REDUCED INFILTRATION CAPACITY.
5. THE CONTRACTOR SHALL CLEAN ALL STORM DRAIN PIPES, CATCH BASINS, MANHOLES, AND WATER QUALITY INLETS AT THE COMPLETION OF CONSTRUCTION WITHIN CONTRACT LIMITS. A PUNCH LIST SHALL BE PREPARED INDICATING DEFICIENCIES AND THE CONTRACTOR SHALL MAKE REPAIRS AS REQUIRED.
6. ALL DEBRIS REMOVED SHALL BE DISPOSED PROPERLY IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

ROUTINE MAINTENANCE: (BY OWNER AFTER FINAL COMPLETION)

1. THE ON-SITE CATCH BASINS AND WATER QUALITY INLETS SHALL BE INSPECTED FOR DEBRIS REMOVAL AND STRUCTURAL INTEGRITY OR DAMAGE ON A SEMI-ANNUAL BASIS. STRUCTURES SHALL BE CLEANED OUT AND/OR ANY DEFICIENCIES CORRECTED. SEDIMENTS FROM THE CATCH BASINS SHOULD BE REMOVED WHEN 10 PERCENT OF THE AVAILABLE CAPACITY IS DEPLETED. FOR ADDITIONAL MAINTENANCE ITEMS FOR THE WATER QUALITY INLETS REFER TO THE WATER QUALITY DETAIL.
2. ALL GRASSED AREAS SHALL BE INSPECTED AT LEAST TWICE PER YEAR FOR EROSION PROBLEMS. PROBLEM AREAS SHALL BE RESEEDED IMMEDIATELY TO STABILIZE EXPOSED SLOPES.
3. THE INFILTRATION PIPE SYSTEMS SHALL BE INSPECTED AFTER THE FIRST SEVERAL RAINFALL EVENTS, AFTER ALL MAJOR STORMS (2-YEAR), AND ON REGULAR BI-ANNUAL SCHEDULED DATES. WATER LEVELS IN THE OBSERVATION/ACCESS MANHOLES SHOULD BE RECORDED OVER SEVERAL DAYS TO CHECK PIPE DRAINAGE.
4. ALL SEDIMENT AND DEBRIS REMOVED SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS. IN CASE OF AN OIL OR BULK POLLUTANT RELEASE, THE SYSTEM SHALL BE CLEANED IMMEDIATELY FOLLOWING THE SPILL. FOR THE PURPOSE OF OIL REMOVAL, A LICENSED CONTRACTOR WILL BE REQUIRED FOR THE REMOVAL, TRANSPORT, AND DISPOSAL OF WASTE OIL PRODUCTS TO A PROPERLY LICENSED FACILITY.



PLAN



SECTION A-A

SYSTEM STORAGE = 9798 CU. FT.

NOTE:
ALL PIPE CONNECTIONS, PIPE OPENINGS & STUBS SHALL BE MANUFACTURED.
PIPE CUT-INS WILL NOT BE PERMITTED.

1 C600 UNDERGROUND INFILTRATION / DETENTION SYSTEM #1

NOT TO SCALE

STORMCEPTOR MAINTENANCE:

GENERAL: STORMCEPTOR SHOULD BE INSPECTED REGULARLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. POST CONSTRUCTION INSPECTIONS SHOULD BE PART OF STANDARD OPERATING PROCEDURES.

SAFETY:
DO NOT ENTER THE STORMCEPTOR TREATMENT CHAMBER UNLESS PROPERLY TRAINED, EQUIPPED AND QUALIFIED TO ENTER A CONFINED SPACE AS IDENTIFIED BY LOCAL OCCUPATIONAL SAFETY AND HEALTH REGULATIONS. WATCH FOR AND AVOID CONTACT WITH OVERHEAD POWER LINES WHEN INSPECTING THE UNIT WITH LONG SAMPLING DEVICES (E.G. SLUDGE JUDGE) STORMCEPTOR IS DESIGNED SO INSPECTION OF THE UNIT CAN BE PERFORMED FROM GRADE (I.E. INSPECT FOR OBSTRUCTIONS, ETC.). QUALIFIED PERSONNEL MAY ENTER THE UPPER BY-PASS CHAMBER AND USE THE INSERT AS A PLATFORM TO REMOVE OBSTRUCTIONS, SEWER FLUSHES, OR CAMERA SURVEYS. BE AWARE THAT THE INSERT MAY BE SLIPPERY. BE AWARE THAT SOME UNITS DO NOT HAVE A SAFETY GRATE OVER THE OUTLET RISER PIPE.

SAMPLING EQUIPMENT: SLUDGE JUDGE OR EQUIVALENT

INSPECTION PROCEDURE:
DETERMINE THE LENGTH OF SAMPLER REQUIRED; CONSULT THE OWNER'S MANUAL OR CONTACT THE LOCAL MANUFACTURING REPRESENTATIVE FOR THIS INFORMATION.

ASSEMBLE THE SAMPLER SECTIONS (TOP, MIDDLES, AND BOTTOM) TO THE CORRECT LENGTH.

LOCATE THE 6" (150MM) OIL PORT VISIBLE FROM SURFACE, USUALLY LOCATED NEAR THE OUTLET RISER PIPE.

LOWER THE SLUDGE JUDGE TO THE BOTTOM OF THE TANK. THE FLOAT VALVE OPENS ALLOWING MATERIALS TO FLOW IN. WHEN THE BOTTOM HAS BEEN REACHED AND THE PIPE HAS BEEN FILLED TO THE SURFACE LEVEL, TUG SLIGHTLY ON THE ROPE AS THE SLUDGE JUDGE IS RAISED.

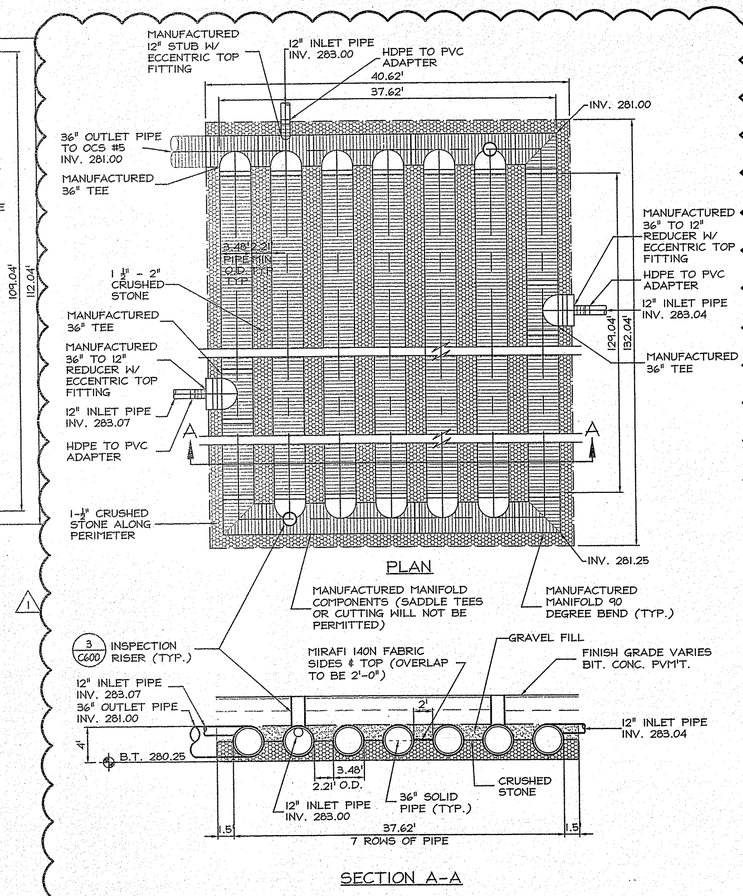
THIS SETS THE CHECK VALVE TRAPPING THE MIXTURE INSIDE.

WHEN THE SAMPLER HAS BEEN RAISED THE AMOUNT OF OIL AND SEDIMENT CAN BE READ USING THE 1-FT. INCREMENTS MARKED ON THE PIPE SECTIONS.

TO RELEASE THE MATERIAL IN THE SLUDGE JUDGE TOUCH THE PIN EXTENDING FROM THE BOTTOM SECTION AGAINST A HARD SURFACE SUCH AS A PAIL. THIS WILL OPEN THE CHECK VALVE TO DRAIN THE SAMPLE.

MAINTENANCE SHOULD BE PERFORMED ONCE THE SEDIMENT DEPTH EXCEEDS THE VALUES AS BELOW.

CONCRETE UNIT (USA)	TOTAL VOLUME IMPG	MAX SEDIMENT VOLUME IMPG	MAINTENANCE DEPTH SEDIMENT INCHES
STC 900	541	234	8"



PLAN

MANUFACTURED MANIFOLD COMPONENTS (SADDLE TEES OR CUTTING WILL NOT BE PERMITTED)

MANUFACTURED MANIFOLD 90 DEGREE BEND (TYP.)

SECTION A-A

SYSTEM STORAGE = 6,620 CU. FT.

NOTE:
ALL PIPE CONNECTIONS, PIPE OPENINGS & STUBS SHALL BE MANUFACTURED.
PIPE CUT-INS WILL NOT BE PERMITTED.

2 C600 UNDERGROUND DETENTION SYSTEM #2

NOT TO SCALE

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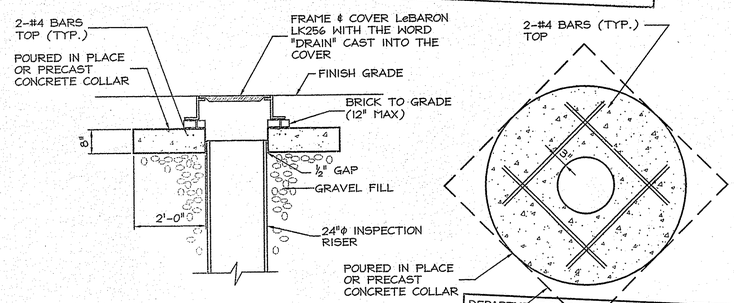

SECTION

ALTERNATE SHAPE

3 C600 INSPECTION RISER TOP

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0058
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Martin D. Wencek

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Certification

RUSSELL J. FERLAND NO. 3636 REGISTERED PROFESSIONAL ENGINEER

3/7/07

Drawn by MAD
Checked by RJF

Revised on
1 REVISED: 3/7/2007

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents
NOTES & DETAILS

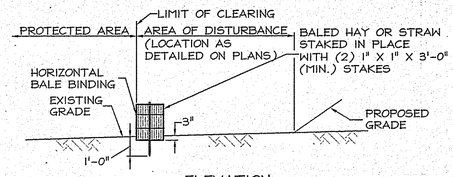
SCALE: AS NOTED

Project Number. 5575

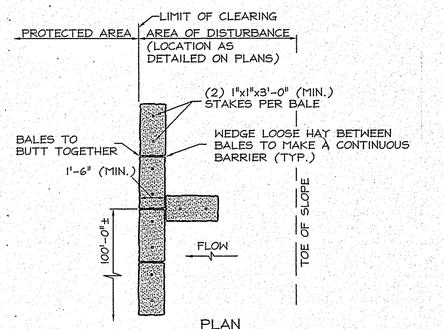
Drawing No.
C600

Sheet 32 of 57

M:\STEFANO - 5575 - 557\5601.TIF - 2/13/2007 2:51:38 PM
M:\STEFANO - 5575 - 557\5601-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



ELEVATION



PLAN

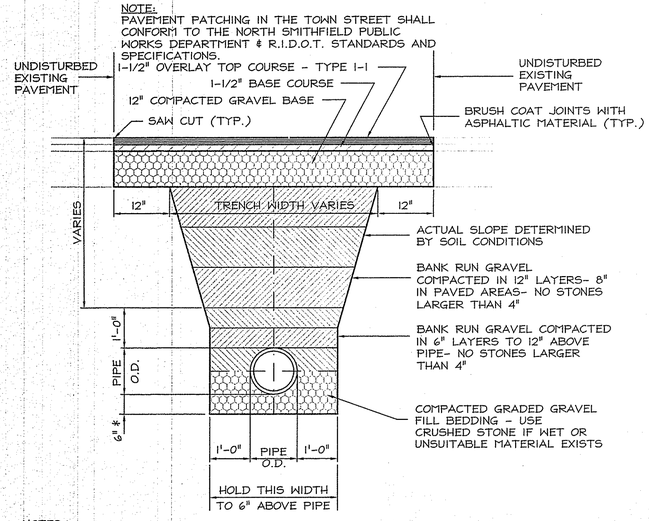
NOTE: AT APPROXIMATE 100'-0" INTERVALS A BALE OF HAY IS TO BUTT PERPENDICULARLY.

(TYPE A)

1 HAY BALE EROSION CHECK

C601 NOT TO SCALE

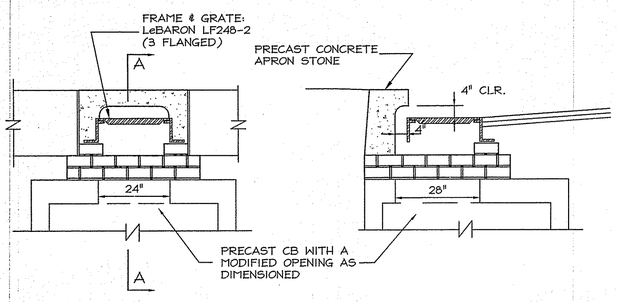
NOTE:
PAVEMENT PATCHING IN THE TOWN STREET SHALL CONFORM TO THE NORTH SMITHFIELD PUBLIC WORKS DEPARTMENT & R.I.D.O.T. STANDARDS AND SPECIFICATIONS.



NOTES:
1. WATER LINES SHALL HAVE A MINIMUM OF 4'-0" MAXIMUM 5'-0" COVER OVER THE TOP OF THE PIPE.
2. * THIS DIMENSION SHALL BE 12" IN ROCK, WET OR UNSUITABLE MATERIAL.
3. COMPACTION OF LIFTS SHALL ACHIEVE A MINIMUM OF 95% OF THE MAXIMUM SOIL DENSITY AS PER ASTM D1557 METHOD C.
4. SHORING AND BRACING MAY BE REQUIRED TO ACHIEVE NEAR VERTICAL SIDESLOPES.

2 PIPE TRENCH, BACKFILL AND PAVEMENT PATCHING

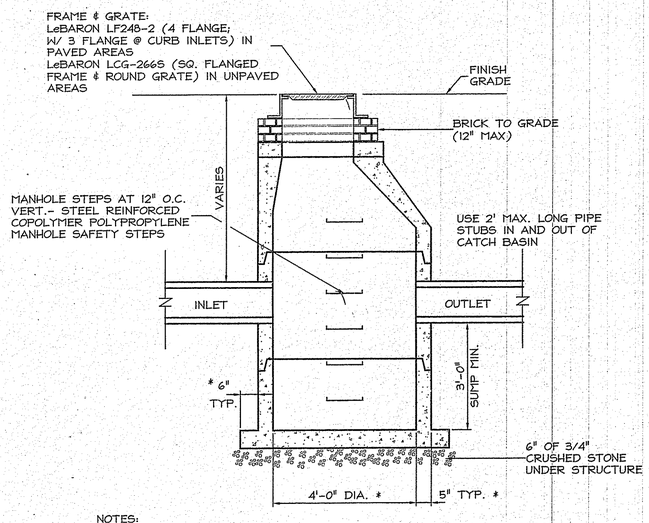
C601 NOT TO SCALE



ELEVATION SECTION A-A

4 CATCH BASIN - CURB INLET

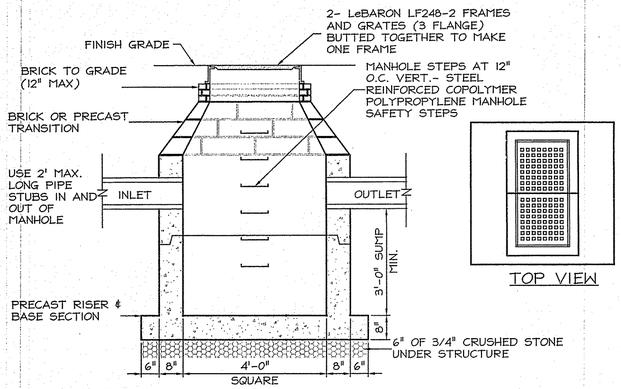
C601 NOT TO SCALE



NOTES:
1. PRECAST STRUCTURE SHALL BE DESIGNED FOR AASHTO HS-20 LOADS
2. *- 48" DIA. FOR PIPES 24" AND SMALLER USE 60" DIA. STRUCT. FOR 27" THROUGH 42" PIPE SIZES STARRED (*) DIMS ARE FOR THE 48" DIA. STRUCTURE

5 PRECAST CATCH BASIN

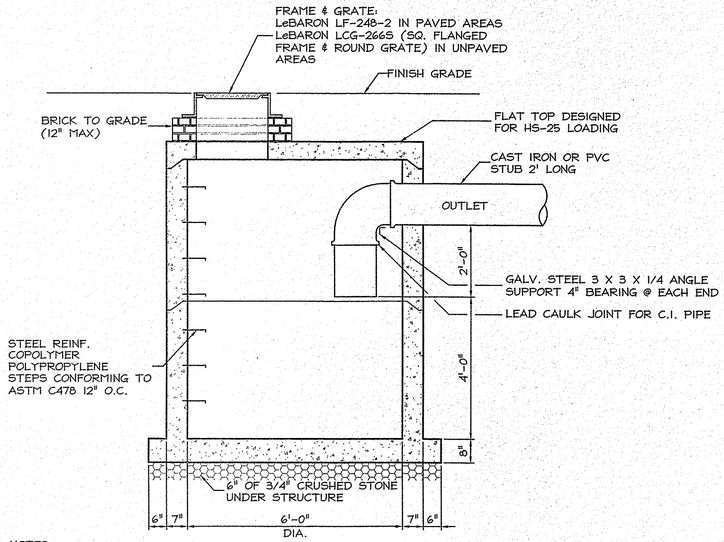
C601 NOT TO SCALE



NOTES:
1. STRUCTURE SHALL BE DESIGNED FOR AASHTO H-20 LOADS
2. STRUCTURE IS DESIGNATED ON PLANS AS "DGCB"

6 DOUBLE GRATE CATCH BASIN

C601 NOT TO SCALE



NOTES:

1. PRECAST STRUCTURE SHALL BE DESIGNED FOR AASHTO HS-20 LOADS & FLAT TOP DESIGNED FOR HS-25 LOADS.

2. THE OIL/WATER SEPARATORS SHALL BE MAINTAINED ON A CONTINUAL BASIS, AS NEEDED. AT MINIMUM, ANNUAL CLEANOUT OF ALL OIL/WATER SEPARATORS SHALL BE PERFORMED. MAINTENANCE OF THE DISPOSAL SYSTEM WILL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY.

3. A POST CONSTRUCTION (BY OWNER) DISPOSAL SYSTEM MAINTENANCE REPORT, DETAILING ANY OPERATIONAL PROBLEMS AND SPILL OR DUMPING INCIDENTS FOR THE PREVIOUS 12 MONTH PERIOD, SHALL BE SUBMITTED TO THE UIC PROGRAM ON AN ANNUAL BASIS. THE MAINTENANCE REPORT SHALL BE DUE BY THE LAST DAY OF THE MONTH OF APRIL FOR EVERY YEAR THE DISPOSAL SYSTEM UTILIZED.

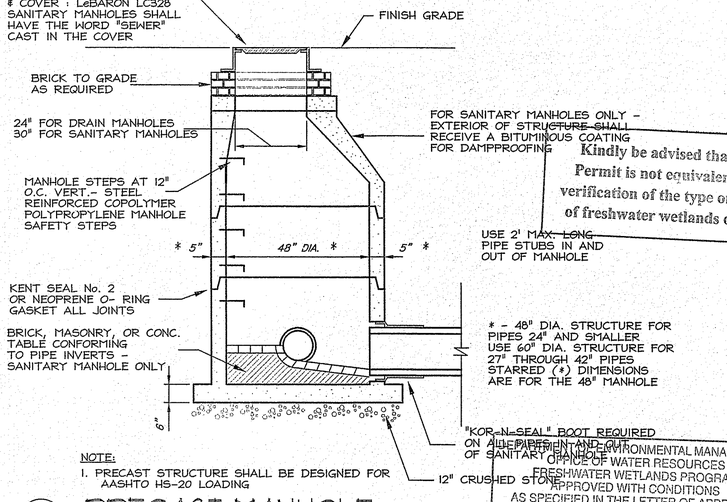
4. ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION TO DEM - DIVISION OF GROUNDWATER & ISDS GROUND WATER DIVISION.

5. ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE RIDEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF THE GROUNDWATER.

6. UPON TRANSFER OF THE PROPERTY, THE FUTURE OWNER SHALL BE INFORMED AS TO LEGAL RESPONSIBILITY OF OPERATING THE DISPOSAL SYSTEM, AS INDICATED.

3 PRECAST WATER QUALITY INLET

C601 NOT TO SCALE



NOTE:
1. PRECAST STRUCTURE SHALL BE DESIGNED FOR AASHTO HS-20 LOADING

7 PRECAST MANHOLE

C601 NOT TO SCALE

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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2/9/07

Drawn by MAD

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Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

DETAILS

SCALE: AS NOTED

Project Number. 5575

Drawing No.

C601

Sheet 33 of 57

MDISTEFANO - 5575 - 5575C602.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C602-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

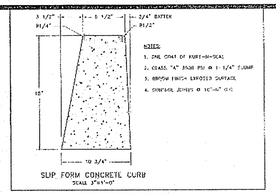
SCHEDULE OF SURFACE FINISHES

ALL COURSE THICKNESSES AFTER FINAL COMPACTION

A	BITUMINOUS CONCRETE	1-1/2" TOP COURSE - TYPE I-1 1-1/2" BINDER COURSE 12" COMPACTED GRAVEL COMPACTED SUBGRADE	DRIVES & PARKING
B	CONCRETE	FINE BROOM FINISH 4" CONCRETE 6X6 W1.4 X W1.4 W.W.F. 6" GRAVEL SUB-BASE COMPACTED SUBGRADE	WALKS
C	BITUMINOUS CONCRETE	2" TOP COURSE - TYPE I-2 6" COMPACTED GRAVEL COMPACTED SUBGRADE	WALKS
D	VEHICULAR CONCRETE	TOOLED EDGES ON CONC. PAVEMENT NOT ABUTTING OTHER PAVED SURFACES - TOOLED EDGE PRIOR TO BROOM FINISH FINE BROOM FINISH 6" THICK CONCRETE PAVEMENT WITH 6 X 6 W2.9 X W2.9 W.W.F. 12" COMPACTED GRAVEL SUB-BASE COMPACTED SUBGRADE	LOADING DOCK & DUMPSTER PADS

NOTE: REFER TO CONCRETE WALK DETAIL 5/C602 FOR CONTROL & EXPANSION JOINTS AND CURBED EDGES.

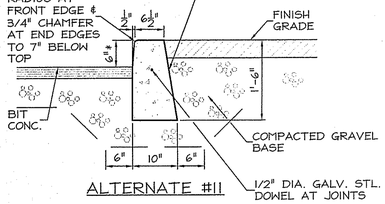
1 / C602 SCHEDULE OF SURFACE FINISHES
NOT TO SCALE



BASE BID

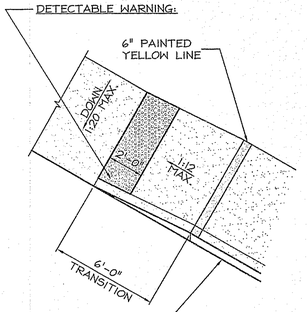
NOTE:
+- CURB REVEAL MAY VARY- REFER TO GRADING PLANS

SPONGED FINISH PROVIDE 3/4" RADIUS AT FRONT EDGE & 3/4" CHAMFER AT END EDGES TO 7" BELOW TOP



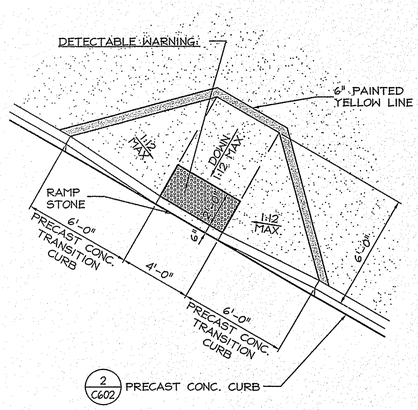
ALTERNATE #11

2 / C602 PRECAST CONC. CURB
NOT TO SCALE



2 / C602 CONC. OR BIT WALK WITH PRECAST CURB

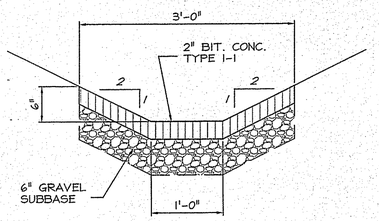
3 / C602 WHEELCHAIR ACCESS RAMP
NOT TO SCALE



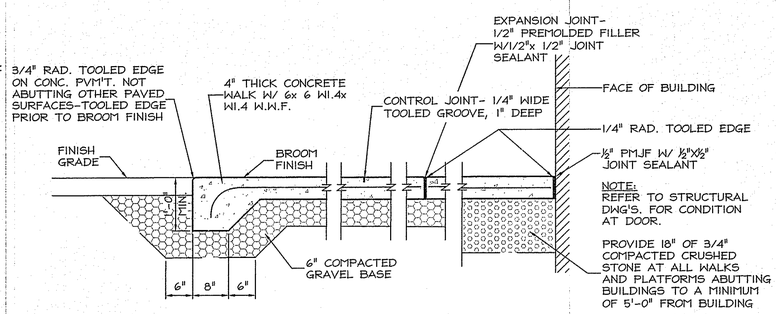
2 / C602 PRECAST CONC. CURB

NOTE:
WHEN ANY OBSTRUCTION IN THE SIDEWALK AREA FALLS WITHIN A CROSSWALK AREA, THE OBSTRUCTION SHALL BE PLACED OUTSIDE THE RAMP.

4 / C602 WHEELCHAIR ACCESS RAMP
NOT TO SCALE

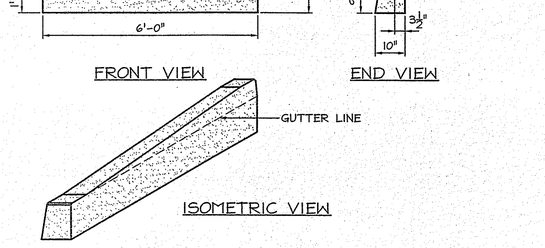


.6 / C602 PAVED SWALE
NOT TO SCALE



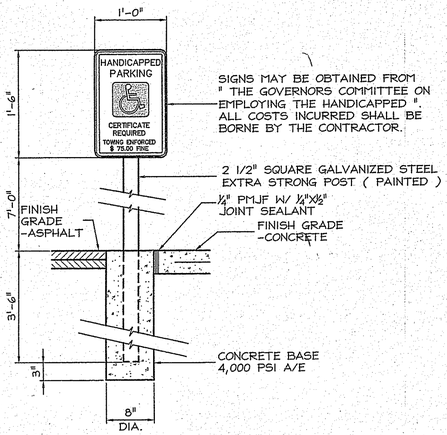
NOTES:
1. CONTROL AND EXPANSION JOINTS SHALL BE CONSTRUCTED AS INDICATED ON LAYOUT PLANS.
2. CONCRETE TO BE 4,000 PSI (28 DAY) AIR-ENTRAINED.

5 / C602 CONCRETE WALKS AND PLATFORMS
NOT TO SCALE

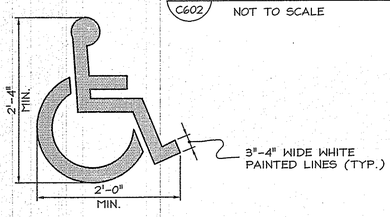


7 / C602 PRECAST CONC. TRANSITION CURB
NOT TO SCALE

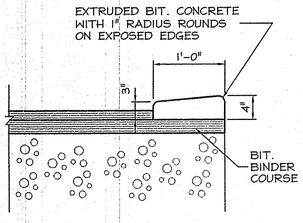
NOTE:
THE DESIGNATED "VAN" PARKING SPACE (SEE PLAN) SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE HANDICAPPED PARKING SIGN.



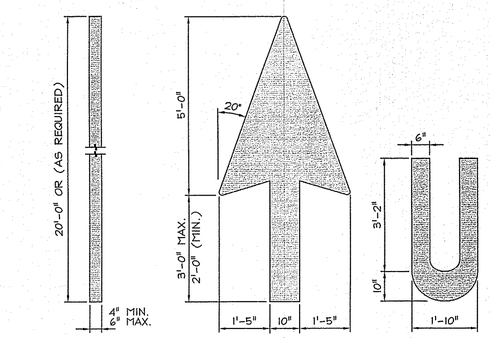
8 / C602 HANDICAPPED PARKING SIGN
NOT TO SCALE



9 / C602 HANDICAPPED SYMBOL
NOT TO SCALE



12 / C602 CAPE COD BERM
NOT TO SCALE



PAVEMENT STRIPING TRAFFIC ARROW LETTER

NOTE:
USE NON-REFLECTIVE WHITE PAINT, TYP. BUT USE YELLOW PAINT ON CONCRETE OR OTHER SURFACES WHERE WHITE PAINT DOES NOT PROVIDE SUFFICIENT CONTRAST.

10 / C602 PAVEMENT MARKINGS
NOT TO SCALE

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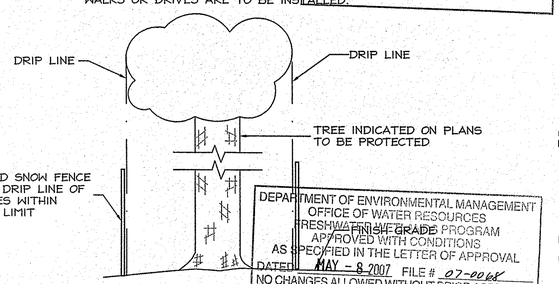
NOTE:
ADJUST FENCE LOCATION WHERE NEW WALKS OR DRIVES ARE TO BE INSTALLED.



NOTES:
1. PROTECTION DEVICE SHALL BE PROVIDED ON ALL TREES TO BE SAVED PRIOR TO ANY DEMOLITION OR EXCAVATION OPERATIONS.
2. DO NOT PENETRATE TREE BARK WITH ANY BINDINGS, SECURING OR FRAMING MATERIAL, WHATSOEVER.
3. PROTECTION FENCE SHALL BE MAINTAINED DURING CONSTRUCTION AND REMOVED BY THE CONTRACTOR UPON COMPLETION OF CONTRACT.
4. AVOID TOPSOIL STRIPPING, VEHICLE TRAFFIC, SUPPLY STORAGE, OR STOCKPILING WITHIN THE DRIPLINE OF TREES TO REMAIN.

11 / C602 TREE PROTECTION FENCE
NOT TO SCALE

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Certification

RUSSELL J. FERLAND NO. 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD
Checked by RJF
Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
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PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
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Sheet Contents
DETAILS

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SCALE: AS NOTED

Project Number. 5575

Drawing No.
C602

Sheet 34 of 57

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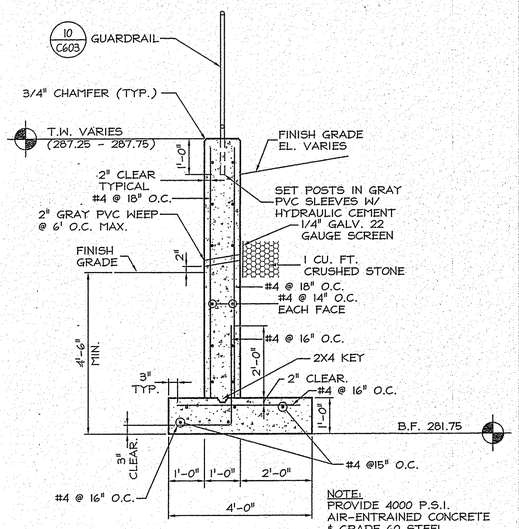
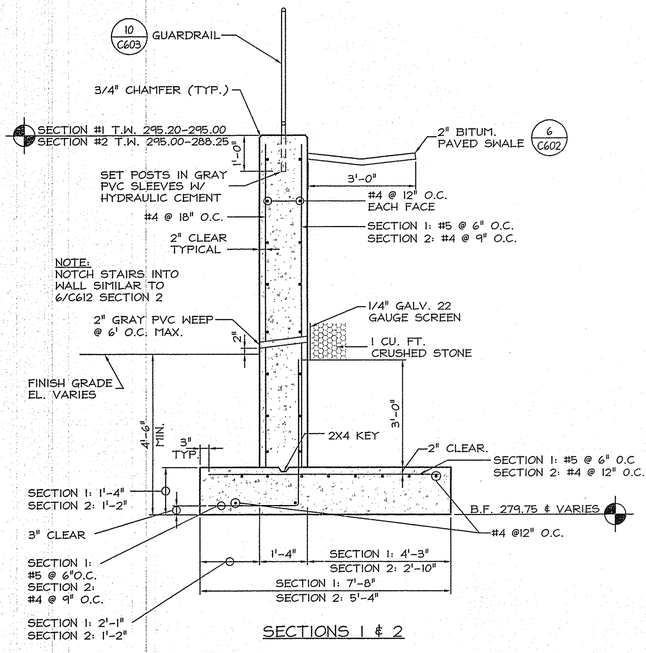
MDISTEFANO - 5575 - 5575C603-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



SECTION 1

1 C603 CONCRETE RETAINING WALL #1

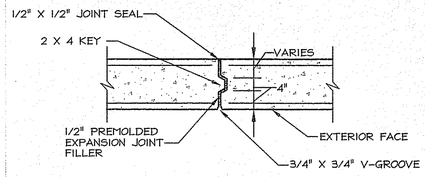
NOT TO SCALE



SECTIONS 1 & 2

2 C603 CONCRETE RETAINING WALL #2

NOT TO SCALE

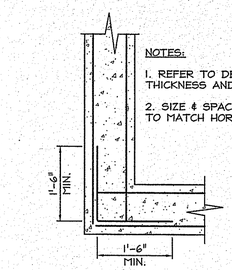


NOTES:

1. EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 60'-0".
2. KEYS TO EXTEND FROM TOP OF FOOTING TO WITHIN 1'-0" OF TOP OF WALL
3. NO REINFORCING SHALL PASS THROUGH EXPANSION JOINTS.

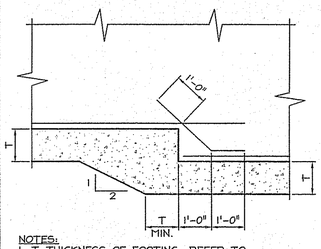
3 C603 CONCRETE WALL EXPANSION JOINT

NOT TO SCALE



4 C603 CORNER REINFORCING

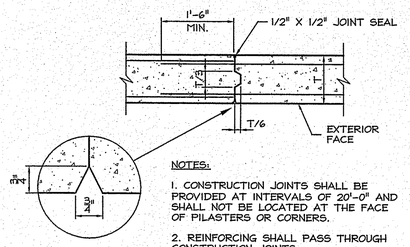
NOT TO SCALE



NOTES:
1. T=THICKNESS OF FOOTING, REFER TO APPLICABLE SECTION.
2. REFER TO PLAN FOR BOTTOM OF FOOTING ELEVATIONS.

5 C603 STEP FOOTING

NOT TO SCALE



NOTES:

1. CONSTRUCTION JOINTS SHALL BE PROVIDED AT INTERVALS OF 20'-0" AND SHALL NOT BE LOCATED AT THE FACE OF PILASTERS OR CORNERS.
2. REINFORCING SHALL PASS THROUGH CONSTRUCTION JOINTS.
3. PROVIDE 3/4" V-GROOVE WHERE WALL EXTENDS 1'-0" OR MORE ABOVE GRADE. EXTEND FROM TOP OF WALL TO 6" BELOW FINISH GRADE.

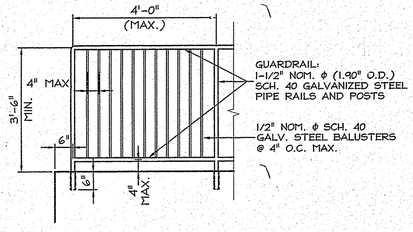
6 C603 CONCRETE WALL CONSTRUCTION JOINT

NOT TO SCALE

SECTION 3

7 C603 CONCRETE RETAINING WALL #2

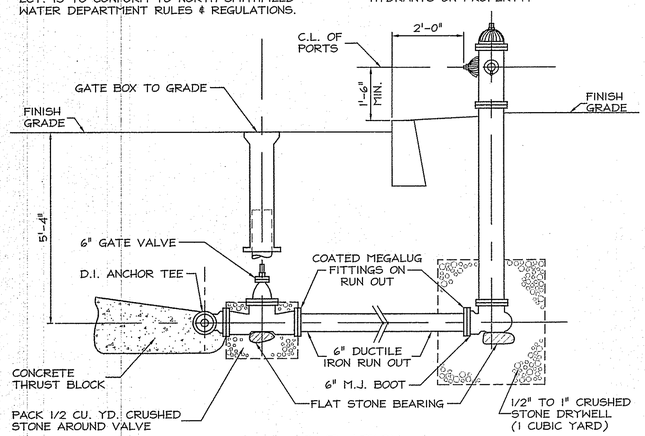
NOT TO SCALE



NOTES:
1. RAILINGS TO BE PAINTED PER SPECIFICATIONS.

10 C603 GUARDRAIL

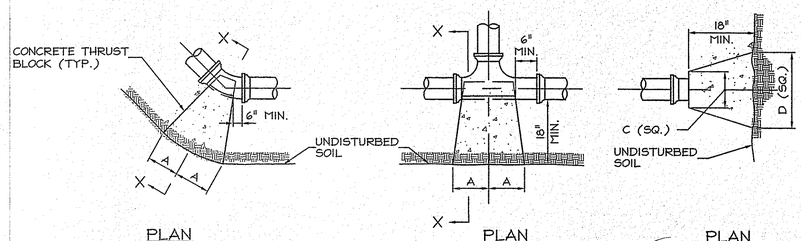
NOT TO SCALE

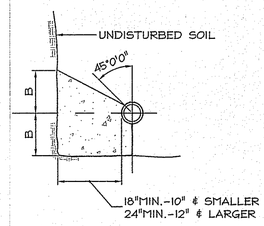


ELEVATION

8 C603 TYPICAL HYDRANT INSTALLATION

NOT TO SCALE





SECTION X-X
BENDS & TEES

SIZE	1/4" BENDS		1/8" BENDS		1/16" BENDS		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
4"	12"	8"	8"	9"	6"	8"	8"	10"	8"	18"
6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"

NOTES:

1. ALL CEMENT TO BE 3000 PSI PORTLAND CEMENT.
2. ALL WORK IS TO BE IN ACCORDANCE WITH NORTH SMITHFIELD WATER DEPARTMENT STANDARDS AND/OR LOCAL SEWER AUTHORITY.
3. THRUST BLOCK DIMENSIONS SHOWN ARE MINIMUM AND ARE BASED ON SOIL BEARING CAPACITY OF 3000 PSF AND STATIC WATER PRESSURE OF 100 PSI. WHERE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF OR EXCAVATION LIMITS ENCOUNTERED DURING CONSTRUCTION MAKE IT UNFEASIBLE TO PLACE THRUST BLOCKS AGAINST UNDISTURBED EARTH, THE CONTRACTOR SHALL PLACE SPECIAL REACTION BLOCKS OF SUFFICIENT WEIGHT TO RESIST THE FULL THRUST OF THE LINE UNDER TEST AND OPERATING PRESSURES.

9 C603 TYPICAL THRUST BLOCK

NOT TO SCALE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED MAY - 8 2007 FILE # 07-0065
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Cynthia D. Wencek

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Certification

RUSSELL J. FERLAND
NO. 3636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

DETAILS

RECEIVED FEB 16 2007 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

SCALE AS NOTED

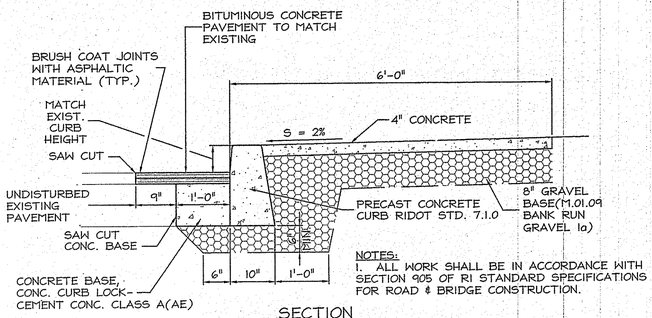
Project Number. 5575

Drawing No.

C603

Sheet 35 of 57

MUSTEFANO - 5575 - 557SC604.TIF - 2/9/2007 2:51:38 PM
MUSTEFANO - 5575 - 557SC604-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

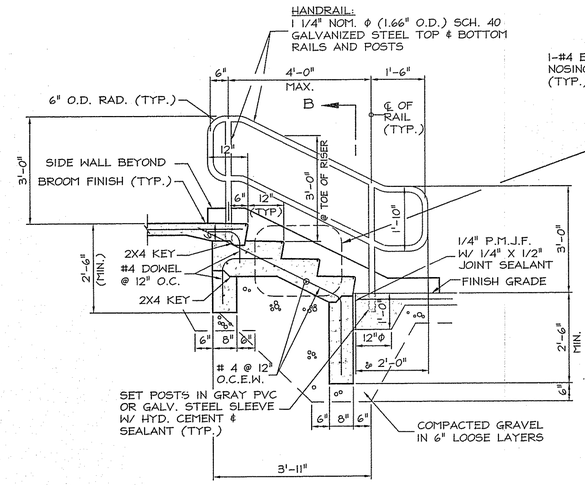


NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 905 OF RI STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

SECTION

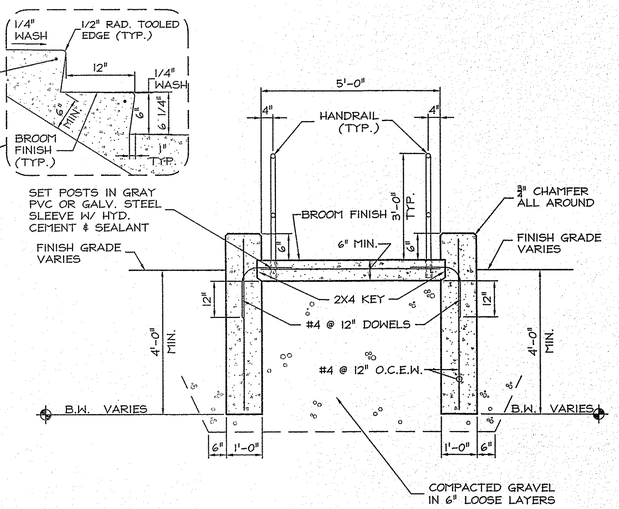
1 / C604 CONCRETE SIDEWALK (RIDOT STD. 43.1.0.)

NOT TO SCALE



SECTION 'A-A'

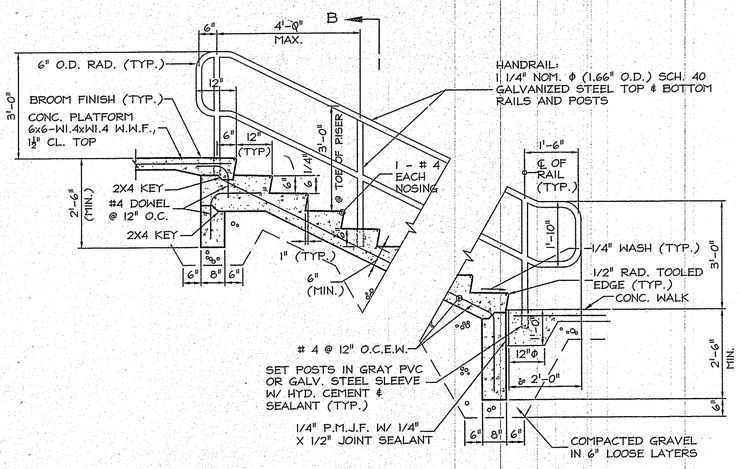
NOTES:
1. PROVIDE 4 RISERS @ 6" WITH 1/4" WASH.
2. RAILING TO BE PAINTED PER SPECIFICATIONS.



SECTION 'B-B'

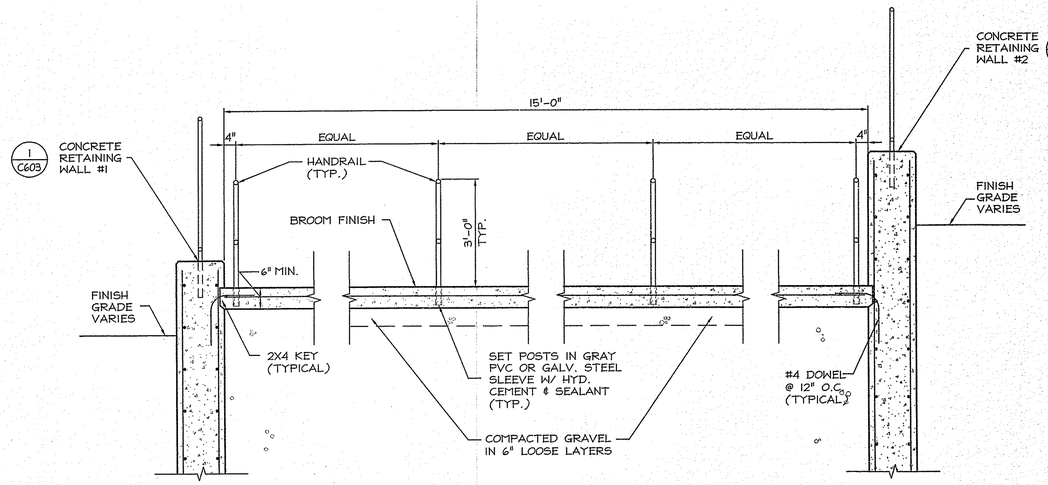
2 / C604 CONCRETE STAIRS #2

NOT TO SCALE



SECTION 'A-A'

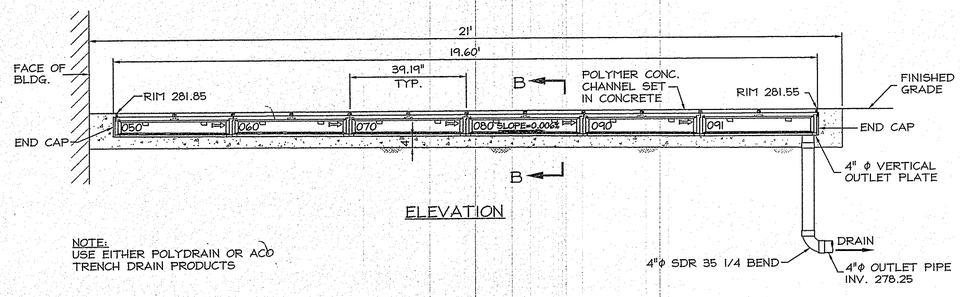
NOTES:
1. PROVIDE 15 RISERS @ 6" WITH 1/4" WASH.
2. RAILING TO BE PAINTED PER SPECIFICATIONS.



SECTION 'B-B'

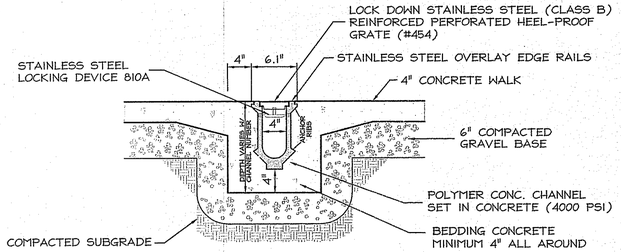
3 / C604 CONCRETE STAIRS #1

NOT TO SCALE

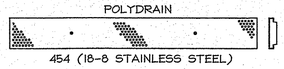


ELEVATION

NOTE:
USE EITHER POLYDRAIN OR ACO TRENCH DRAIN PRODUCTS



SECTION B-B



GRATE

4 / C604 TRENCH DRAIN #2 @ BUILDING ENTRANCE

NOT TO SCALE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED MAY - 8 2007 FILE # 07-0068
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Angelina D. Wenech

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Certification

RUSSELL J. FERLAND
NO. 3636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD
Checked by RJF

Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents
DETAILS

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SCALE: AS NOTED

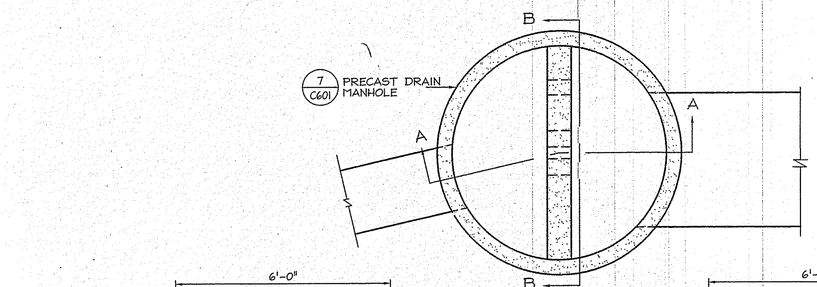
Project Number. 5575

Drawing No.
C604

Sheet 36 of 57

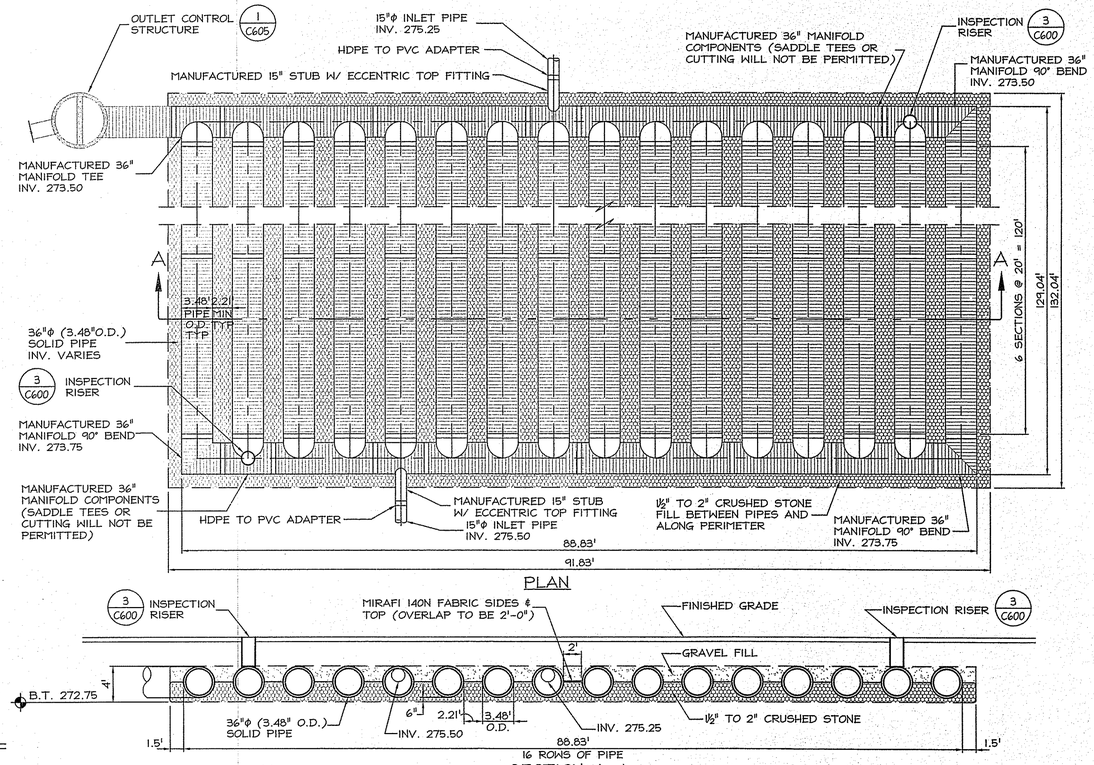
MDISTEPAND - 5575 - 557500D5.TIF - 2/13/2007 2:51:38 PM

MDISTEPAND - 5575 - 557500D5-LAYOUT 36 X 24.PLT - 2/9/2007 8:08:30 AM



1 C605 OUTLET CONTROL STRUCTURE #1

NOT TO SCALE

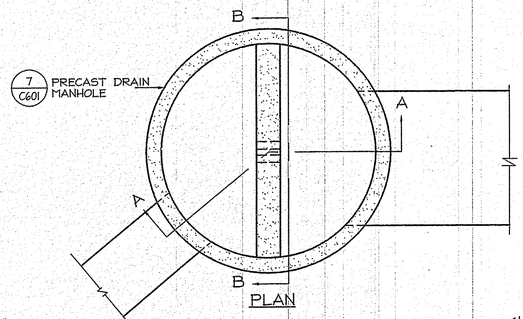


SYSTEM STORAGE: = 15,172 CU. FT.

NOTE:
ALL PIPE CONNECTIONS, PIPE OPENINGS & STUBS SHALL BE MANUFACTURED, PIPE CUT-INS WILL NOT BE PERMITTED.

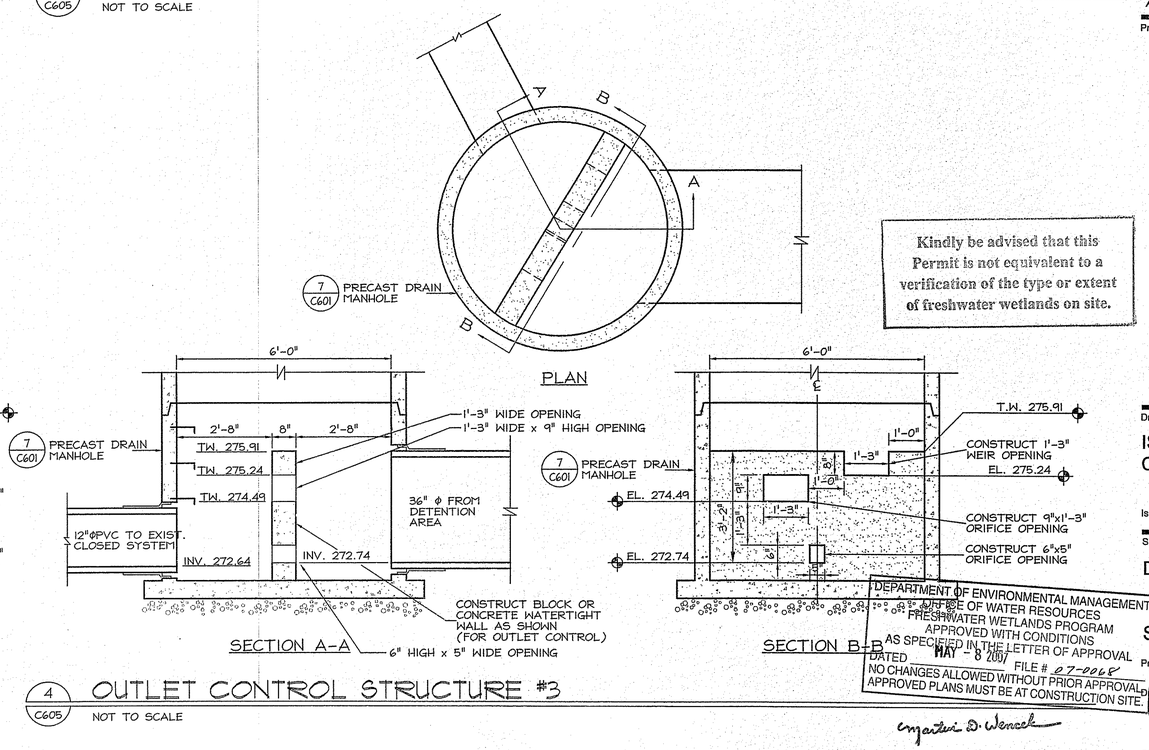
2 C605 UNDERGROUND DETENTION SYSTEM #3

NOT TO SCALE



3 C605 OUTLET CONTROL STRUCTURE #2

NOT TO SCALE



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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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4 C605 OUTLET CONTROL STRUCTURE #3

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RUSSELL J. FERLAND NO. 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

DETAILS

SCALE: AS NOTED

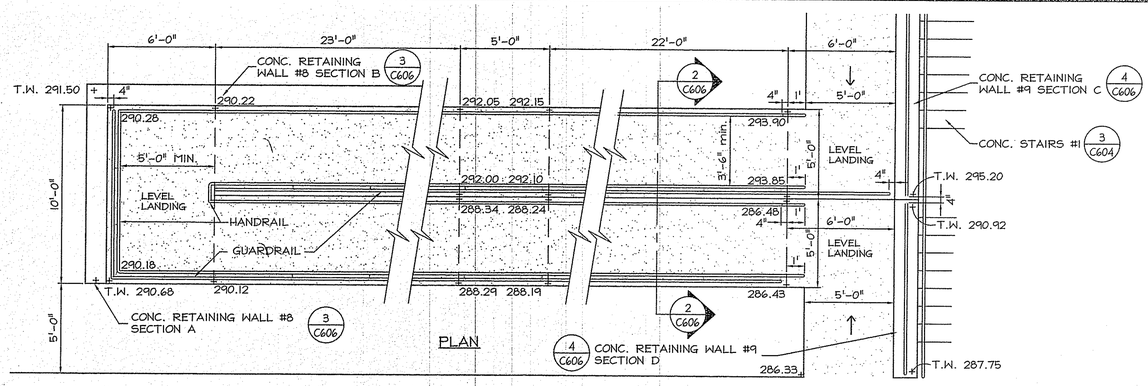
Project Number. 5575

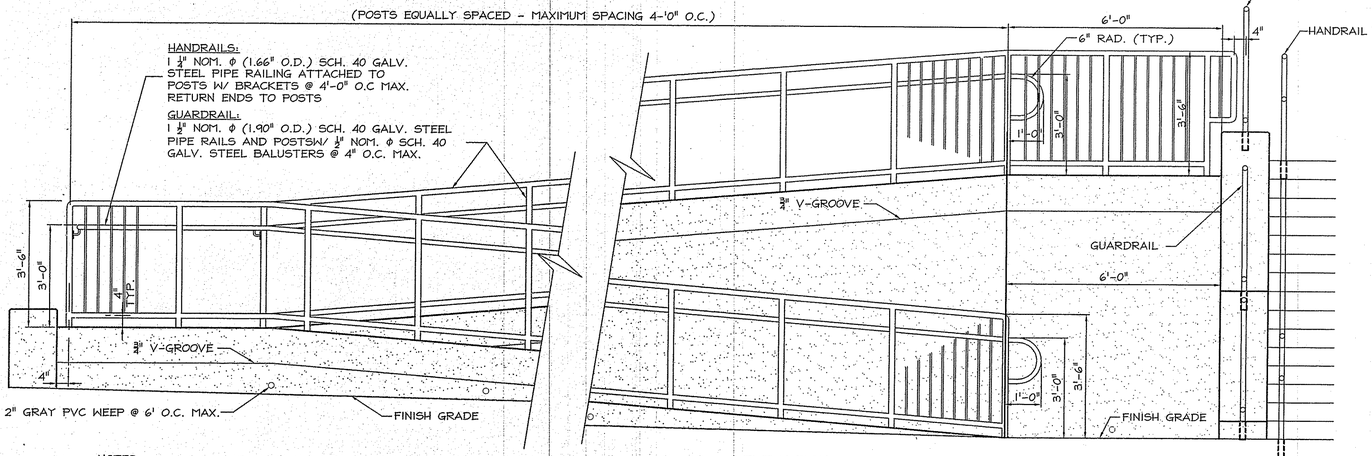
Drawing No.

C605

Sheet 37 of 57

MDISTEFANO - 5575 - 5575C606.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C606-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



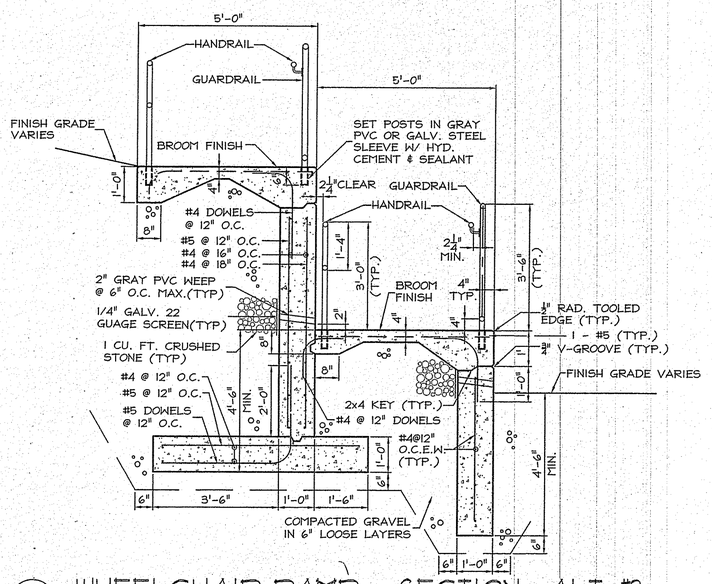


NOTES:
1. RAILS TO BE HOT DIPPED GALVANIZED (INSIDE & OUT) AND PAINTED PER SPECIFICATIONS.
2. WELDS TO BE GROUND SMOOTH.
3. HORIZONTAL RAILS TO RUN PARALLEL TO SLOPING GRADE CONDITION.
4. SET 12" HAND RAIL EXTENSION TO BE PARALLEL TO LEVEL GRADE AT RAMP LANDING.
5. ALL PIPE SHALL BE SCHEDULE 40 WELDED STEEL PIPE.
6. RAIL FABRICATION MUST RESIST 250# HORIZONTAL FORCE.

NOTES:
1. VERIFY ALL DIMENSIONS IN FIELD BEFORE FABRICATION.
2. ALL RAILINGS SHALL MEET STATE HANDICAPPED CODE SPECIFICATIONS.

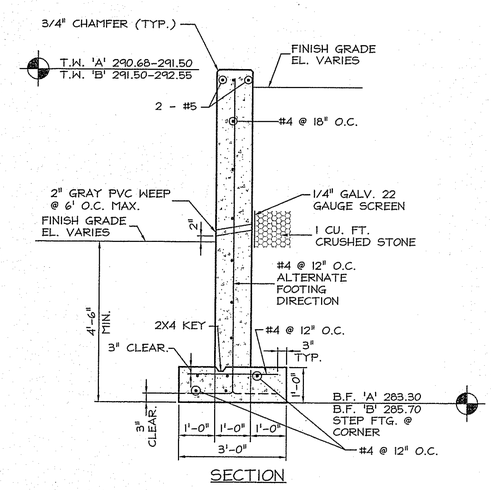
1 C606 WHEELCHAIR RAMP - PLAN & ELEVATION - ALTERNATE #2

NOT TO SCALE



2 C606 WHEELCHAIR RAMP - SECTION- ALT. #2

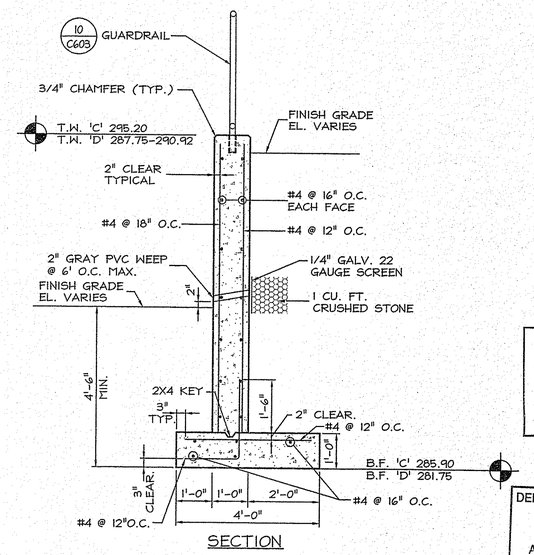
NOT TO SCALE



NOTE:
PROVIDE 4000 P.S.I. AIR-ENTRAINED CONCRETE & GRADE 60 STEEL REINFORCING.

3 C606 CONCRETE RETAINING WALL #8 SECTION 'A' & 'B' - ALTERNATE #2

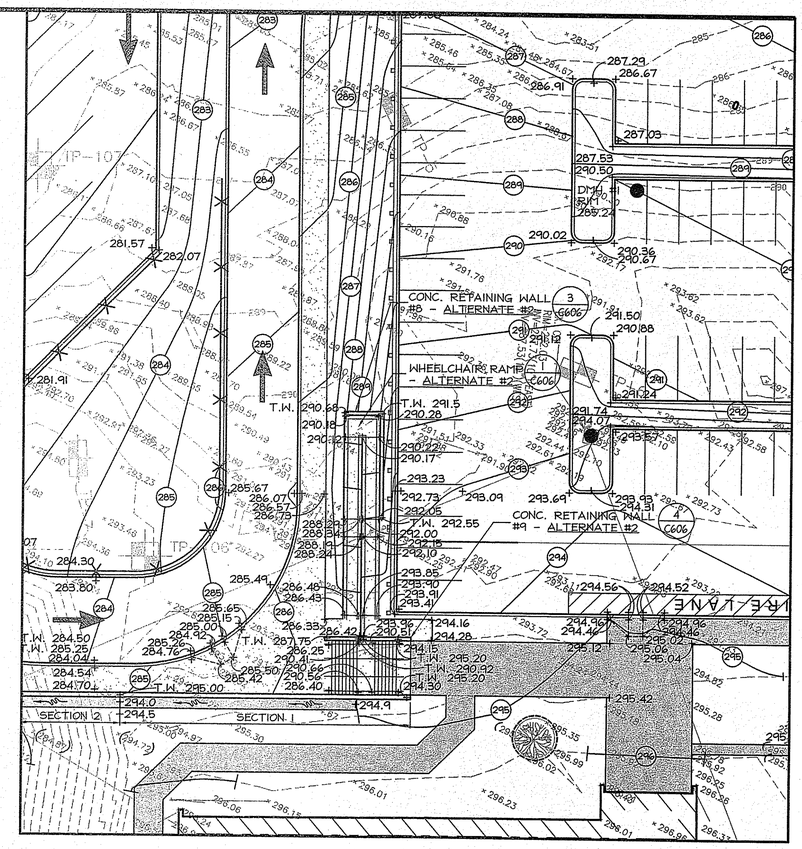
NOT TO SCALE



NOTE:
PROVIDE 4000 P.S.I. AIR-ENTRAINED CONCRETE & GRADE 60 STEEL REINFORCING.

4 C606 CONCRETE RETAINING WALL #9 SECTION 'C' & 'D' - ALTERNATE #2

NOT TO SCALE



PARTIAL GRADING PLAN - ALTERNATE #2

SCALE: 1" = 20'

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FRESHWATER WETLANDS PROGRAM
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RUSSELL J. FERLAND
NO. 3636
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2/9/07

Drawn by JND, MAD
Checked by RJF
Revised on

Gilbane

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1850 PROVIDENCE PIKE
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NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Sheet Contents
PLAN & DETAILS ALTERNATE #2

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SCALE: AS NOTED

Project Number. 5575

Drawing No.
C606

Sheet 38 of 57

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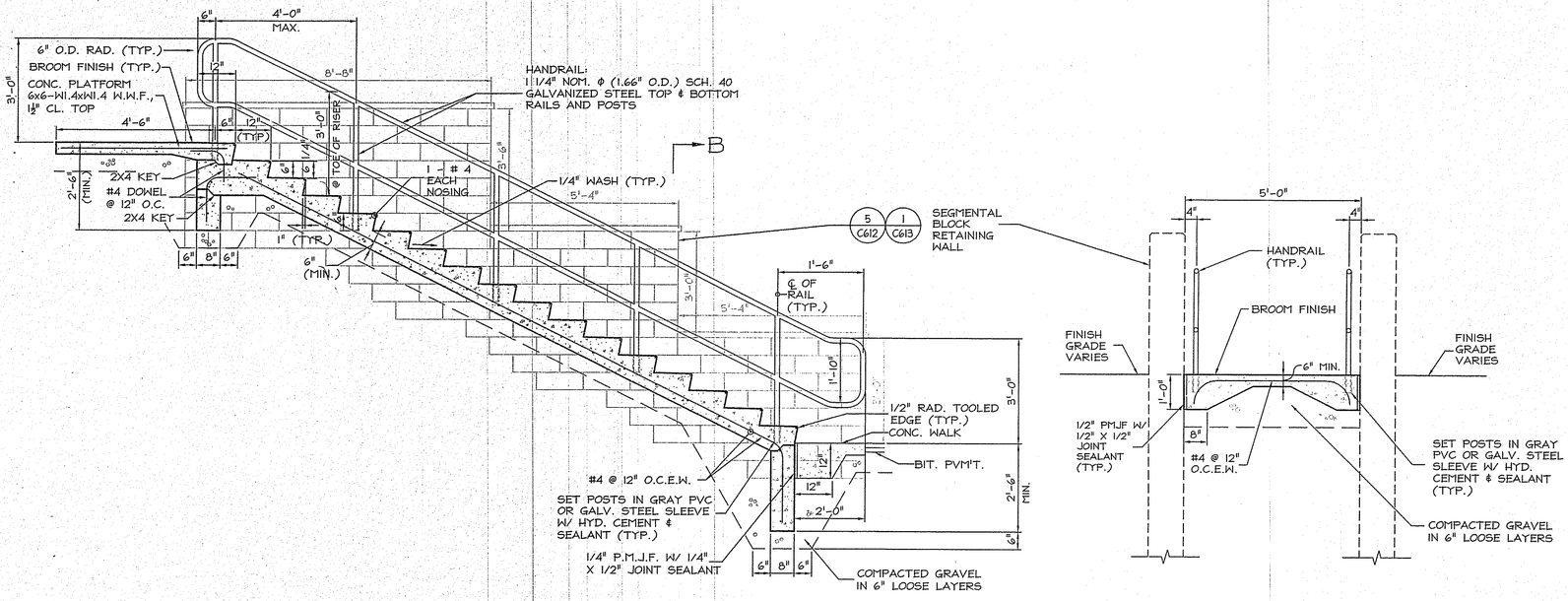
MUSTEFANO - 5575 - 5575C607-LAYOUT 36-X 24.PLT - 2/9/2007 8:09:30 AM



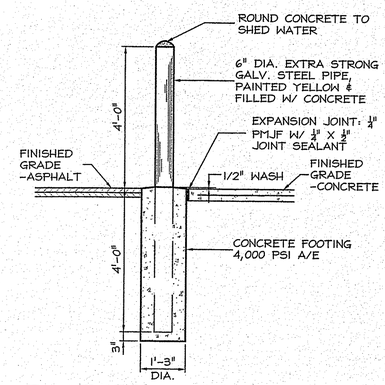
SECTION 'A-A'

NOTES:
1. PROVIDE 17 RISERS @ 6-1/4" WITH 1/4" WASH.
2. RAILING TO BE PAINTED PER SPECIFICATIONS.

1 / C607 CONCRETE STAIRS #3

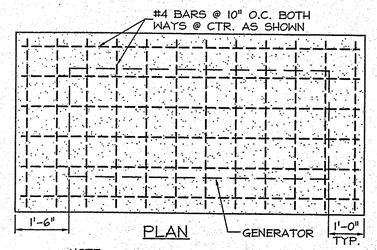
NOT TO SCALE

SECTION 'B-B'



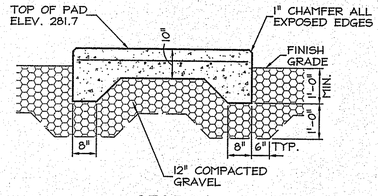
2 / C607 PIPE BOLLARD

NOT TO SCALE



PLAN

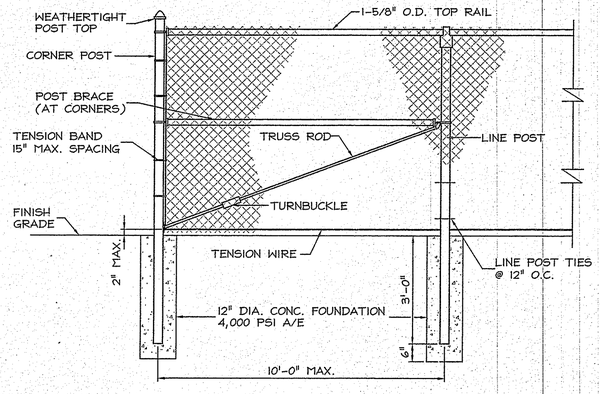
NOTE:
PROVIDE ANCHOR BOLTS AS REQUIRED BY THE GENERATOR MANUFACTURER. STUB UP CONDUITS & PIPING TO SUIT GENERATOR.



SECTION

6 / C607 CONCRETE GENERATOR PAD

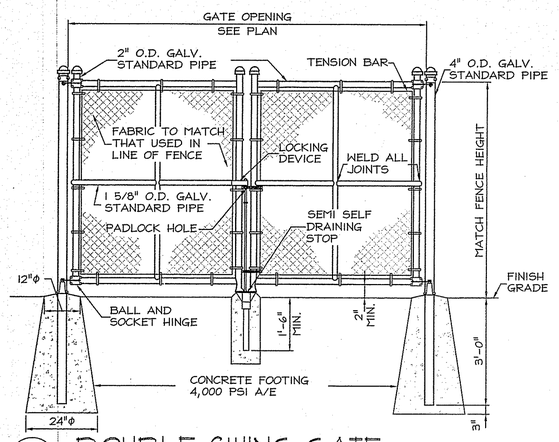
NOT TO SCALE



NOTES:
1. FENCING HEIGHT SHALL BE 8'-0"
2. CORNER POSTS- 3" O.D., LINE POSTS- 2½" O.D., GATE POSTS- 4" O.D.
3. FABRIC- # 9 GAUGE, 2" MESH, GALVANIZED TOP AND BOTTOM SELVAGE BARBED AND TWISTED.
4. ALL STEEL PARTS TO BE HOT-DIPPED GALVANIZED PER ASTM SPECIFICATIONS.
5. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

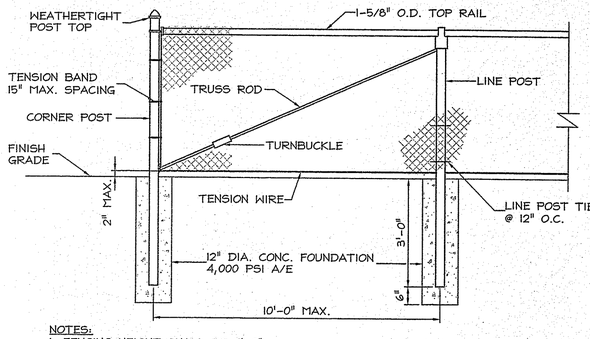
3 / C607 CHAIN LINK FENCE

NOT TO SCALE



4 / C607 DOUBLE SWING GATE

NOT TO SCALE



NOTES:
1. FENCING HEIGHT SHALL BE 4'-0"
2. CORNER POSTS- 2-1/2" O.D., LINE POSTS- 2" O.D.
3. FABRIC- # 9 GAUGE, 2" MESH, BLACK PERMAFUSE COATED, GALVANIZED TOP AND BOTTOM SELVAGE KNUCKLED.
4. ALL STEEL PARTS TO BE BLACK PERMAFUSE COATED, HOT-DIPPED GALVANIZED PER ASTM SPECIFICATIONS.
5. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
6. PROVIDE PRIVACY DECORATIVE SLATTING FOR CHAIN LINK FENCE AT LOADING DOCK RETAINING WALL #4, COLOR TO BE SELECTED BY ARCHITECT.

5 / C607 CHAIN LINK FENCE

NOT TO SCALE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Jennifer D. Gilbert

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RUSSELL J. FERRAND
NO. 3635
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD
Checked by RJF

Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents
DETAILS

SCALE: AS NOTED

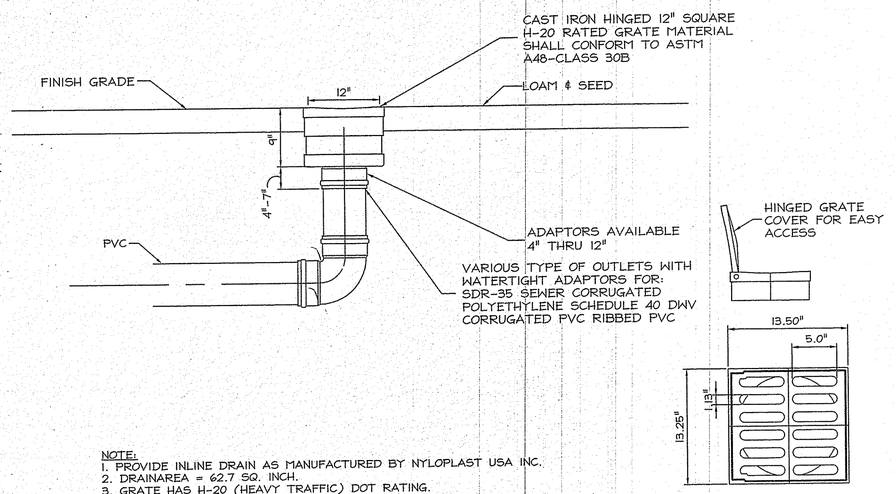
Project Number. 5575

Drawing No.
C607

Sheet 39 of 57

MDISTEFANO - 5575 - 5575C608.TIF - 2/13/2007 2:51:38 PM

MDISTEFANO - 5575 - 5575C608-LAYOUT 36 X 24.PLT - 2/8/2007 8:09:30 AM



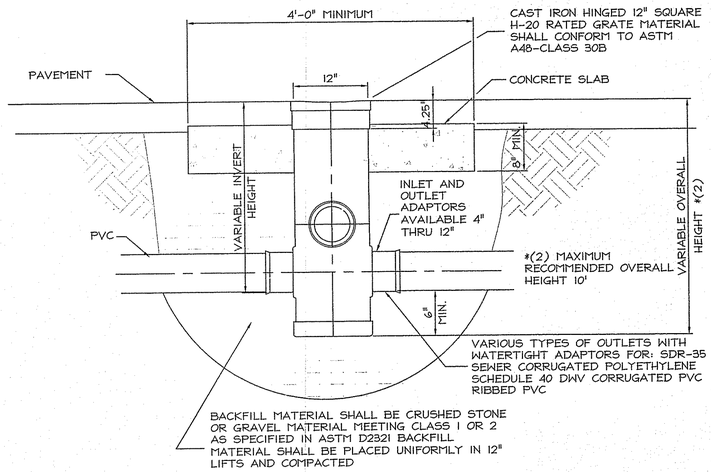
STANDARD (H-20) RATED

12" CAST IRON GRATE

NOTE:
1. PROVIDE INLINE DRAIN AS MANUFACTURED BY NYLOPLAST USA INC.
2. DRAINAREA = 62.7 SQ. INCH.
3. GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING.
4. MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B. CASTINGS ARE TO BE FURNISHED WITH A BLACK PAINT.

1 / C608 INLINE DRAIN

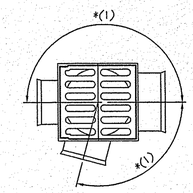
NOT TO SCALE



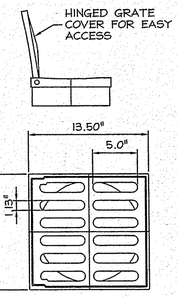
NOTE:
1. PROVIDE 12" DRAIN BASIN AS MANUFACTURED BY NYLOPLAST USA INC.
2. DRAINAREA = 62.7 SQ. INCH.
3. GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING.
4. MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B. CASTINGS ARE TO BE FURNISHED WITH A BLACK PAINT.

2 / C608 INLINE DRAIN BASIN

NOT TO SCALE

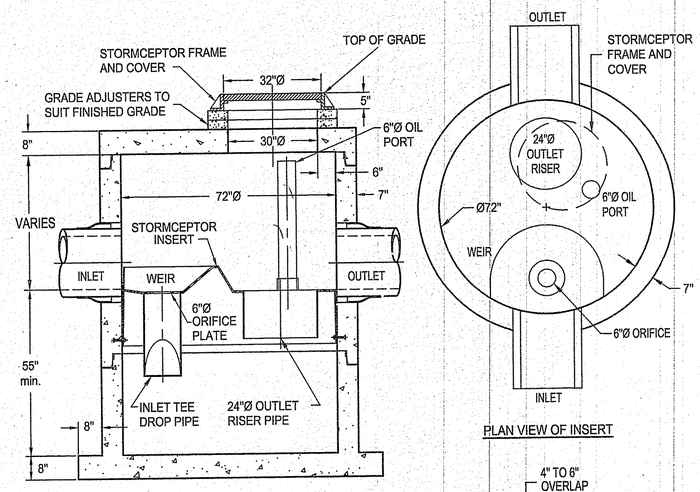


*(1) ADAPTORS CAN BE MOUNTED ON ANY ANGLE 0° TO 359°.



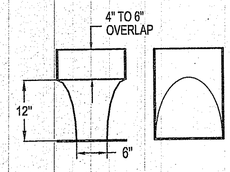
STANDARD (H-20) RATED

12" CAST IRON GRATE



SECTION THRU CHAMBER

PLAN VIEW OF INSERT

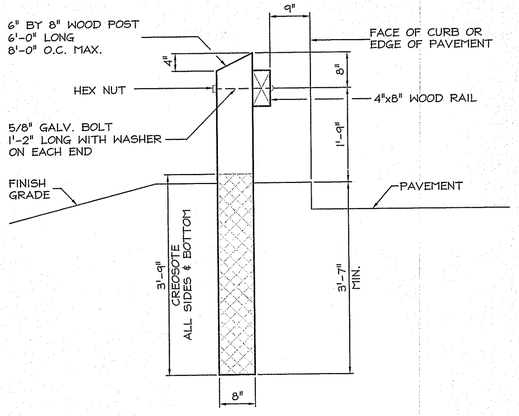


ENLARGED INLET TEE DROP PIPE

NOTE :
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE 24"Ø OUTLET RISER PIPE AND THE 6"Ø OIL PORT.
3. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.

4 / C608 PRECAST CONCRETE STORMCEPTOR STC900

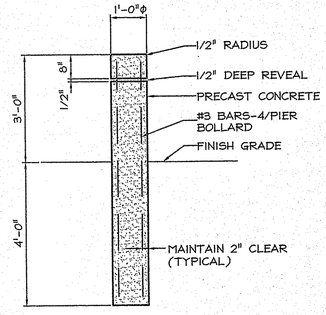
NOT TO SCALE



NOTES:
1. ALL NUTS, BOLTS & WASHERS TO BE GALVANIZED.
2. ALL EXPOSED WOOD TO RECEIVE 1 COAT OF PIGMENT STAIN.
3. REDUCE SPACING OF POSTS AS REQUIRED AROUND CURVES.

5 / C608 RUSTIC GUARD RAIL

NOT TO SCALE



2 / C615 PRECAST CONC. BOLLARD

NOT TO SCALE

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RUSSELL J. FERLAZZO — NO. 3636 — REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

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Sheet Contents

DETAILS

RECEIVED FEB 16 2007 RI DEPT. OF ENVIRONMENTAL MANAGEMENT

SCALE: AS NOTED

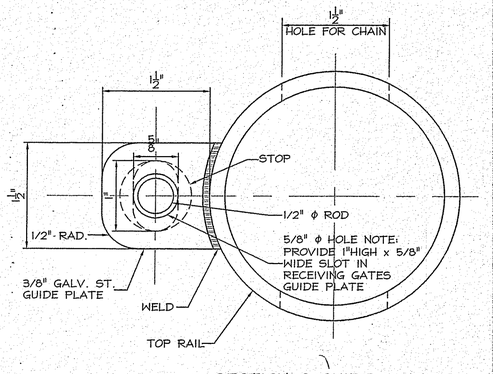
Project Number. 5575

Drawing No.

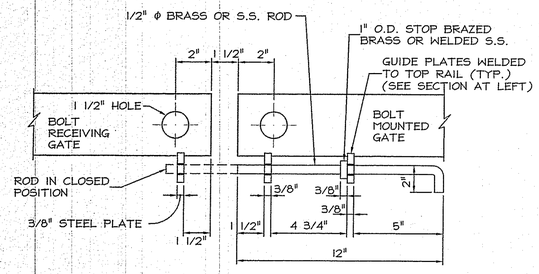
C608

Sheet 40 of 57

MUSTEFANO - 5575 - 5575C609.TIF - 2/13/2007 2:51:38 PM
MUSTEFANO - 5575 - 5575C609-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



SECTION @ GUIDE PLATE

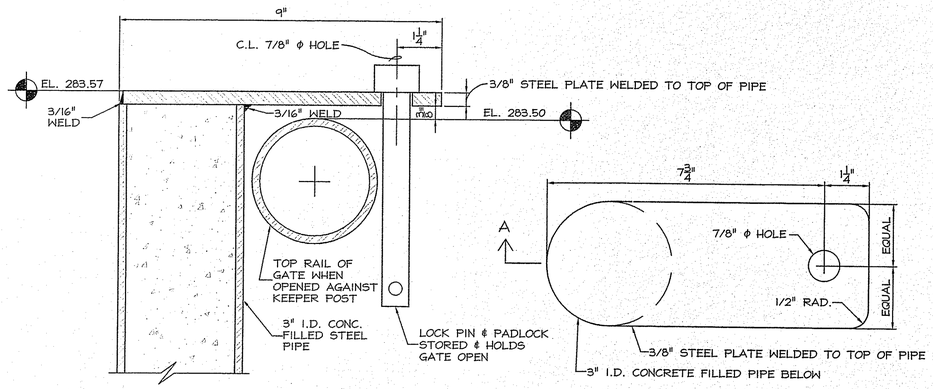


PLAN

NOTE:
SEE GENERAL NOTES RELATIVE TO GATE CONSTRUCTION, DETAIL 3 SHEET C609

1 C609 GATE SLIDE BOLT

NOT TO SCALE



SECTION 'A'

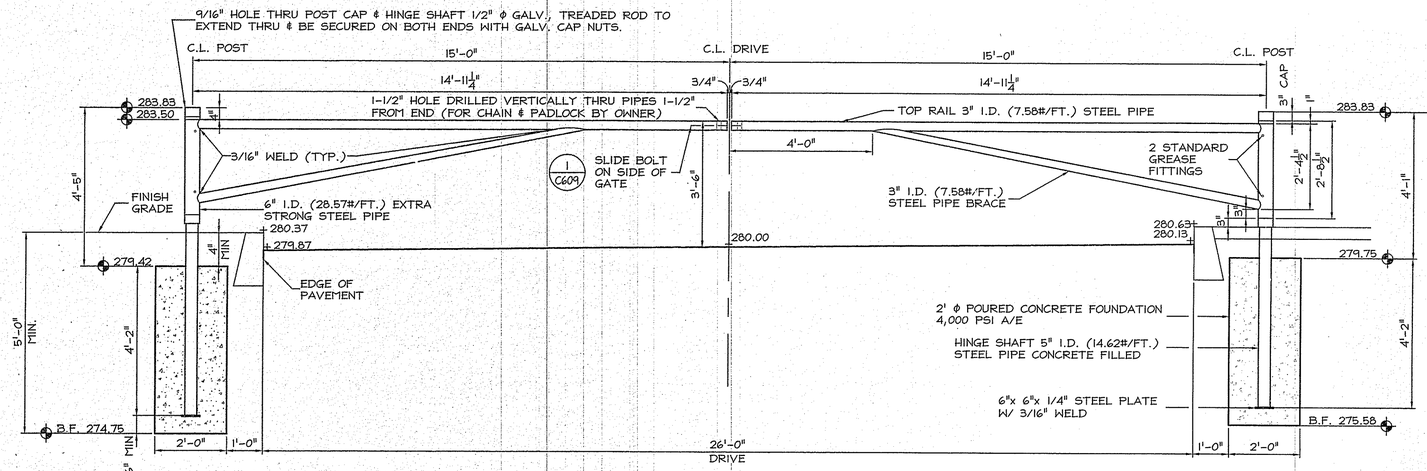
2 - POSTS REQUIRED
(ONE PER GATE)

PLAN

NOTES:
1. POST SHALL BE SET IN 2' ϕ CONCRETE FOUNDATION 4,000 PSI A/E. BOTTOM OF FOUNDATION TO BE 4'-0" BELOW FINISH GRADE. (SIMILAR TO HINGE POST, SEE DETAIL 3/C609)
2. SEE GENERAL NOTES RELATIVE TO GATE CONSTRUCTION, DETAIL 3/C609

2 C609 GATE KEEPER POST

NOT TO SCALE

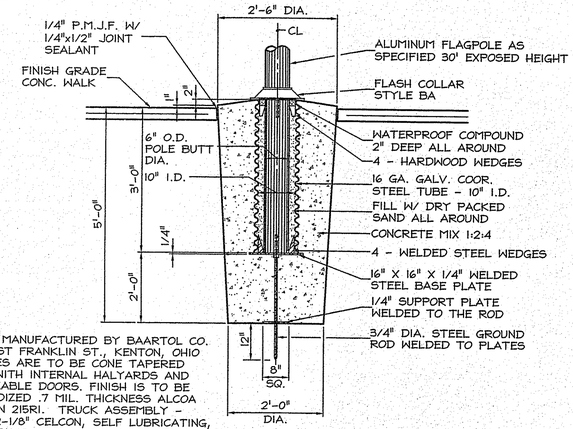


GENERAL NOTES:
1. RELATIVE TO GATE CONSTRUCTION THE PIPE IS TO BE STANDARD WEIGHT, SCHEDULE 40 AND EXTRA STRONG SCHEDULE 80 STEEL PIPE. ASTM A53 GRADE "B" MATERIAL.
2. ALL STEEL PLATES ARE TO BE ASTM A-36.
3. ALL WELDING SHALL CONFORM TO AWS A 5.1, OR A 5.5 WITH E70XX ELECTRODES.
4. ALL STEEL SHALL BE HOT-DIPPED GALVANIZED ("COLORGALV") AS SPECIFIED. HINGE SHAFT IS NOT TO BE COLOR GALV COATED.
5. HINGE SHAFT TO BE GROUND AS NECESSARY TO PROVIDE A SMOOTH, SLIDING FIT.
6. ALL JOINTS TO BE 3/16" WELDS, GROUND SMOOTH BEFORE PAINTING.
7. PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION. SUBMITTAL PER SPECIFICATIONS.

NOTE:
A "KEEPER POST" PER DETAIL 2/C609 IS REQ'D. FOR EACH GATE.

3 C609 STEEL PIPE GATE

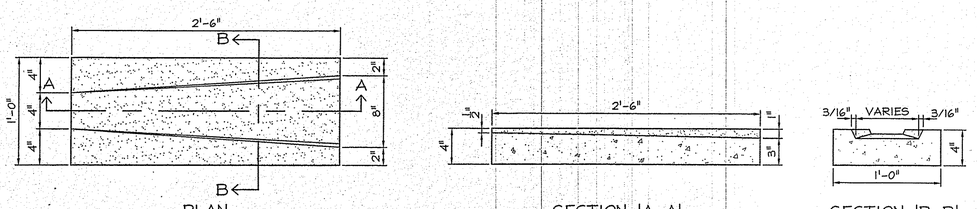
NOT TO SCALE



NOTES:
FLAGPOLES MANUFACTURED BY BAARTOL CO. INC. 901 WEST FRANKLIN ST., KENTON, OHIO 43326. POLES ARE TO BE CONE TAPERED ALUMINUM WITH INTERNAL HALYARDS AND FLUSH LOCKABLE DOORS. FINISH IS TO BE CLEAR ANODIZED .7 MIL. THICKNESS ALCOA DESIGNATION 215RI. TRUCK ASSEMBLY - STD. SIZE 2-1/8" CELCON, SELF LUBRICATING, DOUBLE SHEAVE REVOLVING TRUCK. BALL - FLUSH SEAM # 14 GA. SPUN ALUMINUM ϕ GOLD ANODIZED ON 5/8"SOLID ROD. FLAG SNAPS - ALUMINUM. FLAGS TO BE FURNISHED ϕ INSTALLED BY OWNER.

4 C609 ALUMINUM FLAGPOLE BASE

NOT TO SCALE



NOTE:
PROVIDE SPLASH BLOCKS AT ALL DOWNSPOUTS THAT AREN'T TIED INTO A DRAINAGE SYSTEM.

5 C609 PRECAST CONCRETE SPLASH BLOCK

NOT TO SCALE

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Maureen D. Wenczka

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Certification

RUSSELL J. FERLAND
No. 3636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD
Checked by RJF

Revised on

Gilbane

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Sheet Contents
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Sheet 41 of 57

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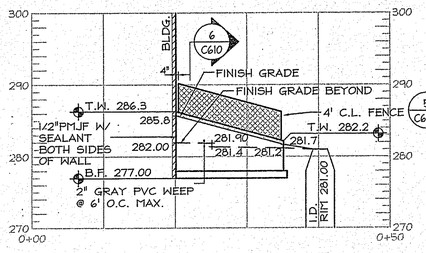
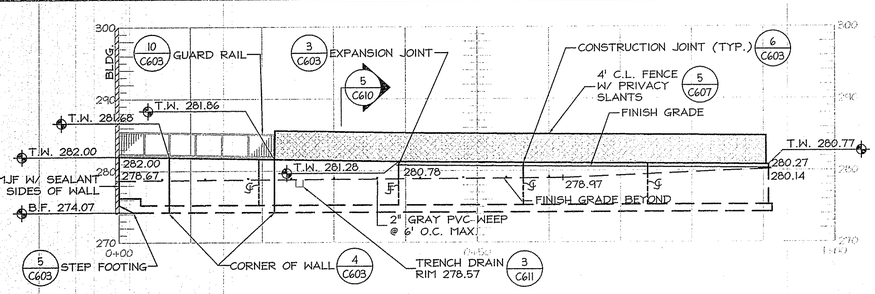


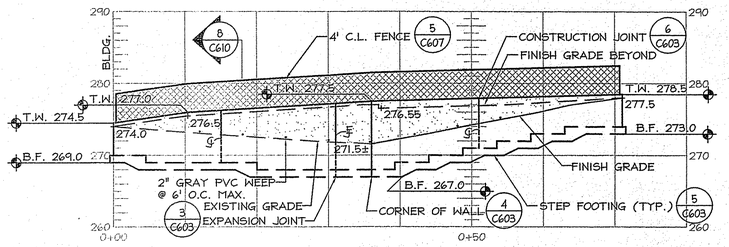
1 C610 CONCRETE RETAINING WALL #3 - ELEVATION

SCALE: 1" = 10'



2 C610 CONCRETE RETAINING WALL #4 - ELEVATION

SCALE: 1" = 10'



3 C610 CONCRETE RETAINING WALL #6 - ELEVATION

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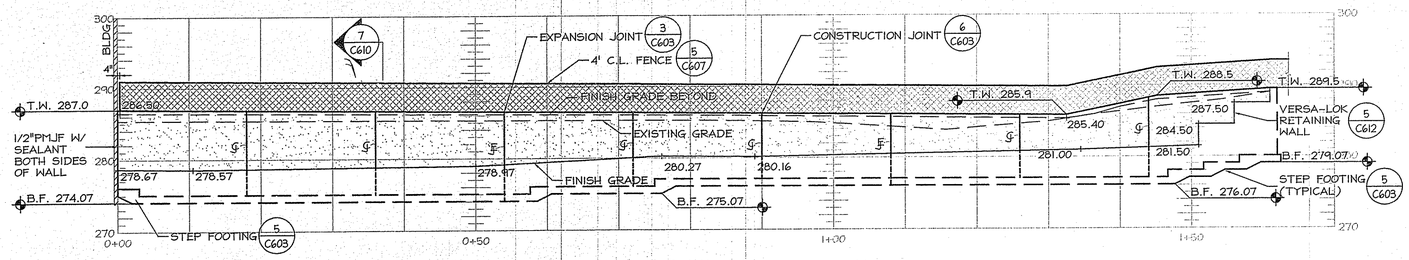
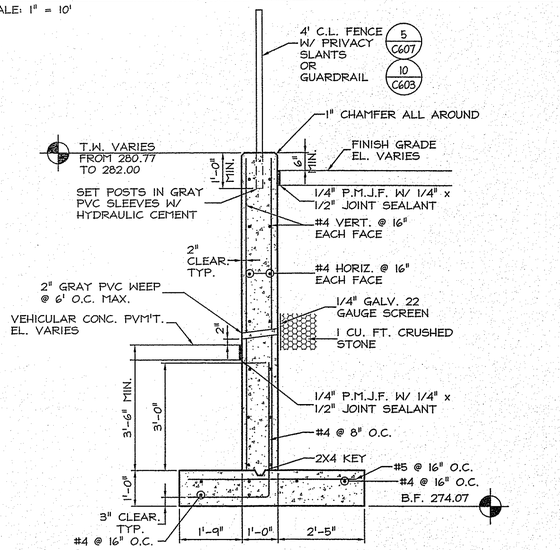


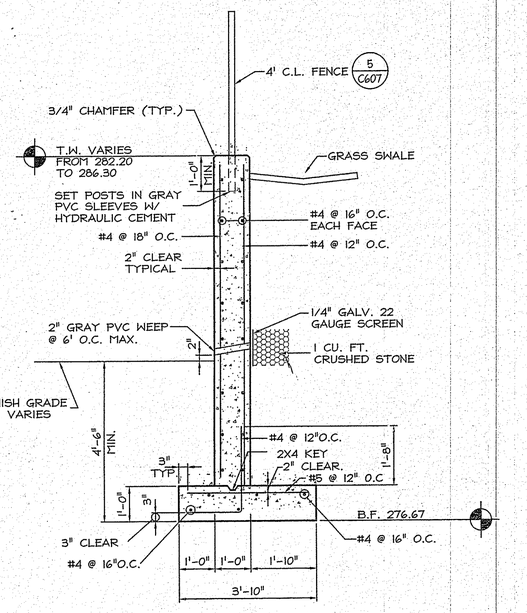
4 C610 CONCRETE RETAINING WALL #5 - ELEVATION

SCALE: 1" = 10'



5 C610 CONCRETE RETAINING WALL #4

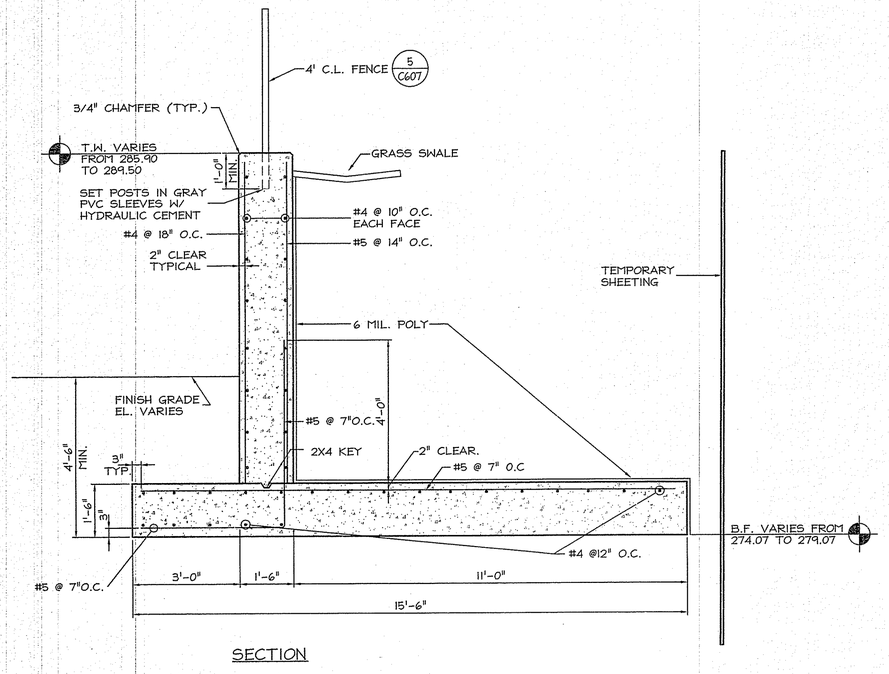
NOT TO SCALE



SECTION

6 C610 CONCRETE RETAINING WALL #3

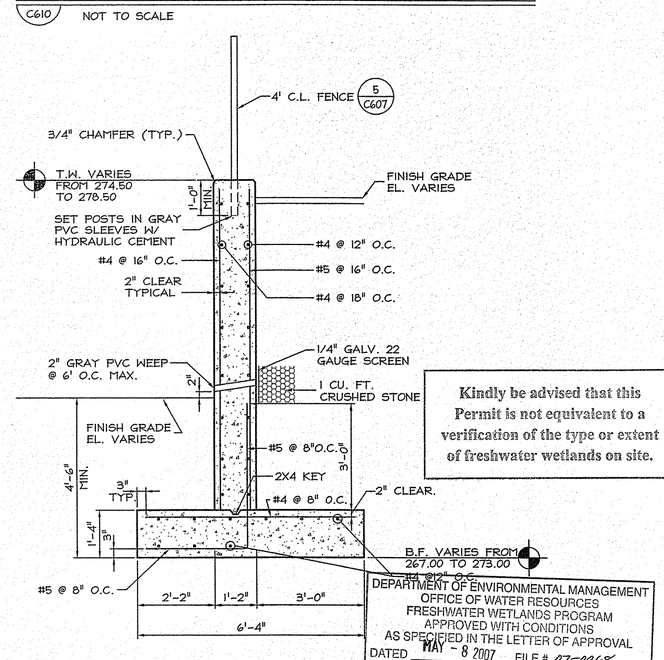
NOT TO SCALE



SECTION

7 C610 CONCRETE RETAINING WALL #5

NOT TO SCALE



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Maureen D. Wenck

8 C610 CONCRETE RETAINING WALL #6

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No. 3636
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2/9/07

Drawn by MAD

Checked by RJF

Revised on

Gilbane

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Sheet 42 of 57

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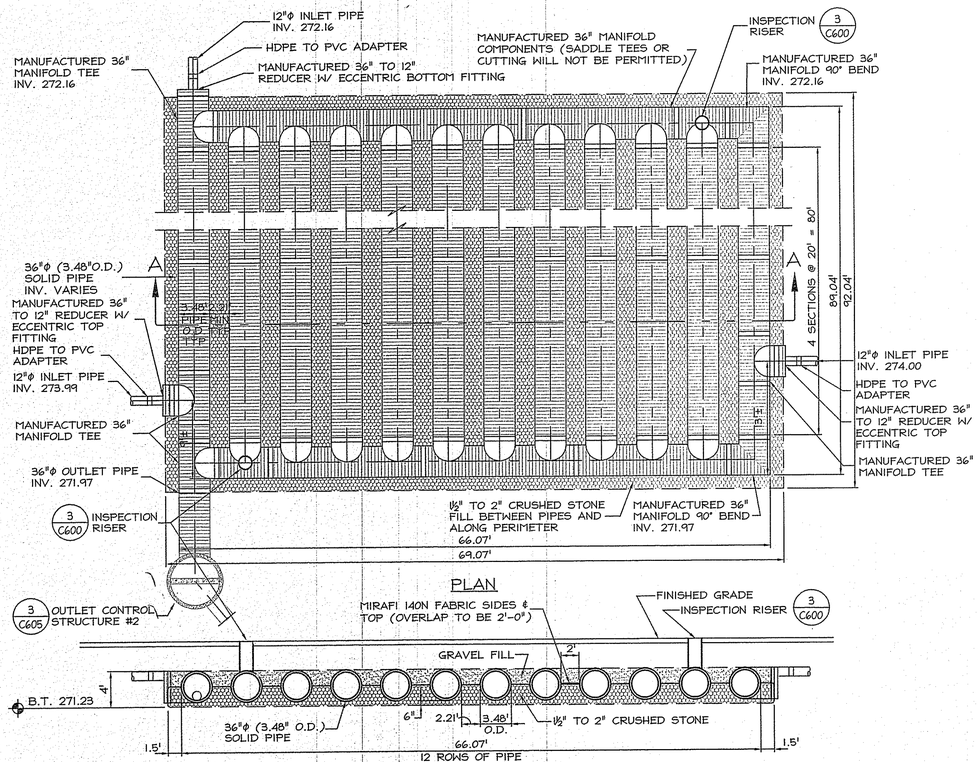
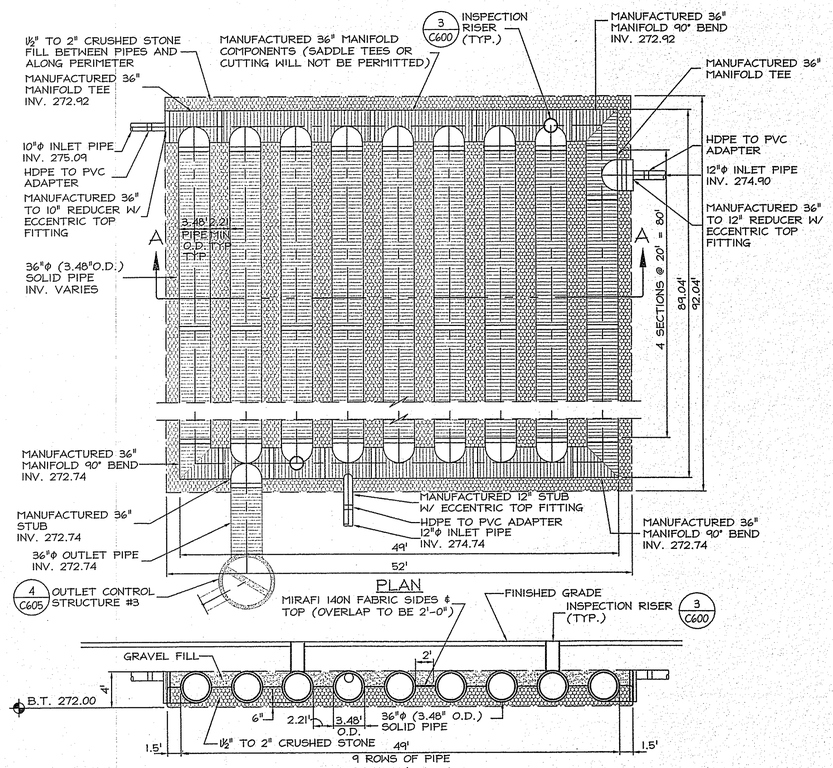
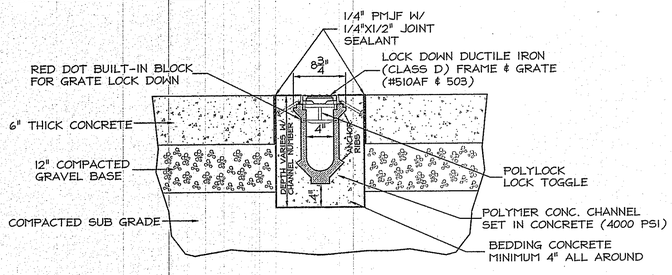




NOTE:
ALL PIPE CONNECTIONS, PIPE OPENINGS & STUBS SHALL BE MANUFACTURED, PIPE CUT-INS WILL NOT BE PERMITTED.

1 C611 UNDERGROUND DETENTION SYSTEM #4

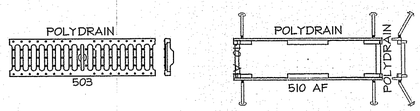
NOT TO SCALE



NOTE:
ALL PIPE CONNECTIONS, PIPE OPENINGS & STUBS SHALL BE MANUFACTURED, PIPE CUT-INS WILL NOT BE PERMITTED.

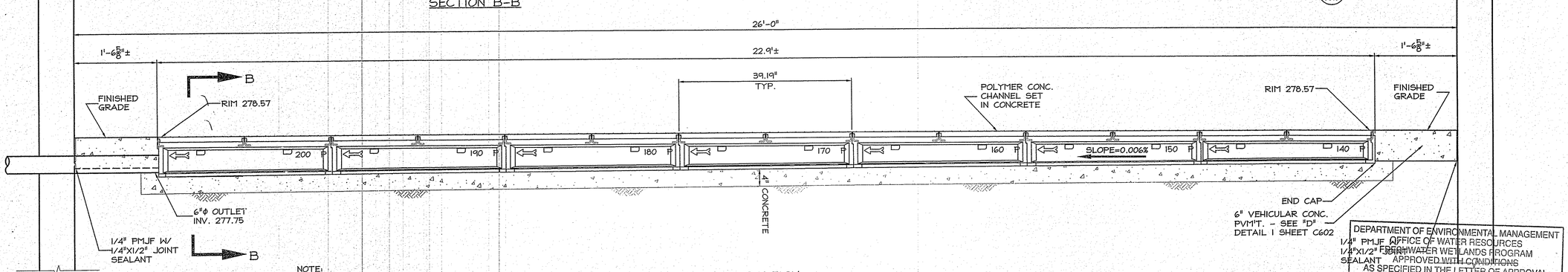
2 C611 UNDERGROUND DETENTION SYSTEM #5

NOT TO SCALE



#513AF CAST GRATES & FRAMES

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



NOTE:
USE EITHER POLYDRAIN OR ACO TRENCH DRAIN PRODUCTS

3 C611 TRENCH DRAIN #1 @ LOADING DOCK

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Martin D. Wencek

RECEIVED
FEB 16 2007
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Certification

RUSSELL J. MCLELLAND 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

Gilbane

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RGB

Architecture · Engineering · Interior Design

Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents

DETAILS

SCALE: AS NOTED

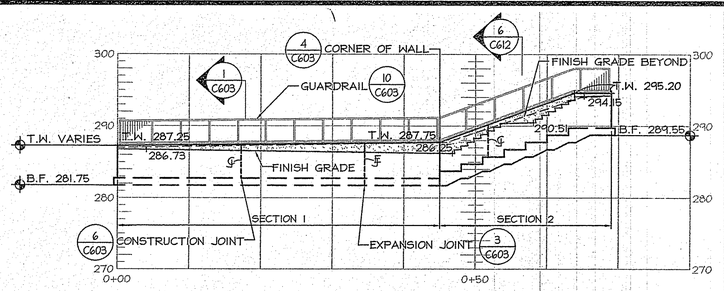
Project Number. 5575

Drawing No.

C611

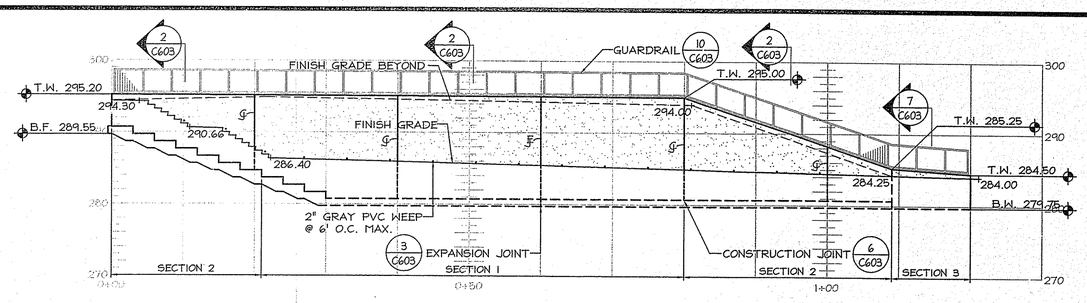
Sheet 43 of 57

MUSTEPANO - 5575 - 557SC612.TIF - 2/9/2007 2:51:38 PM
MUSTEPANO - 5575 - 557SC612-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



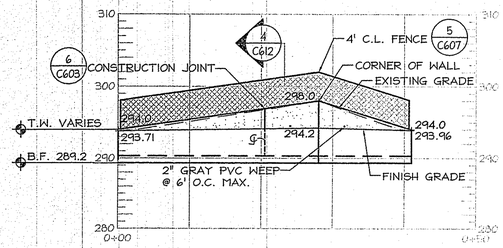
1 / C612 CONCRETE RETAINING WALL #1 - ELEVATION

SCALE: 1" = 10'



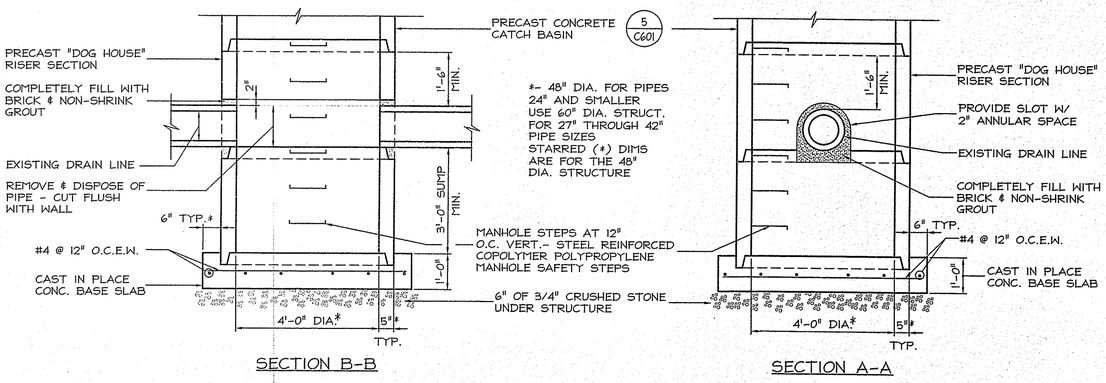
2 / C612 CONCRETE RETAINING WALL #2 - ELEVATION

SCALE: 1" = 10'



3 / C612 CONCRETE RETAINING WALL #1 - ELEVATION

SCALE: 1" = 10'

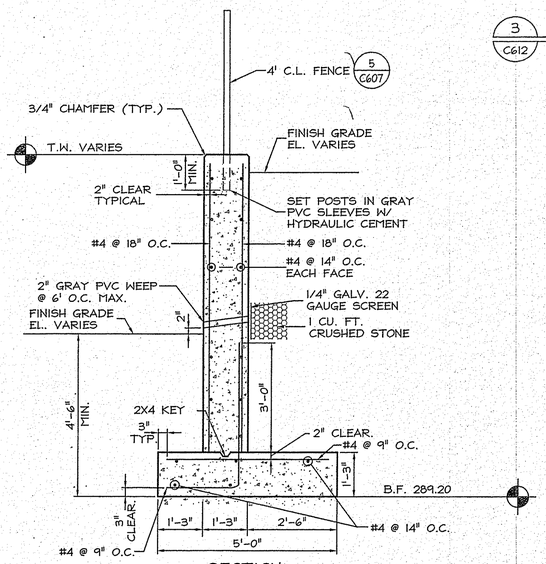


SECTION B-B

SECTION A-A

7 / C612 "DOGHOUSE" CATCH BASIN

NOT TO SCALE

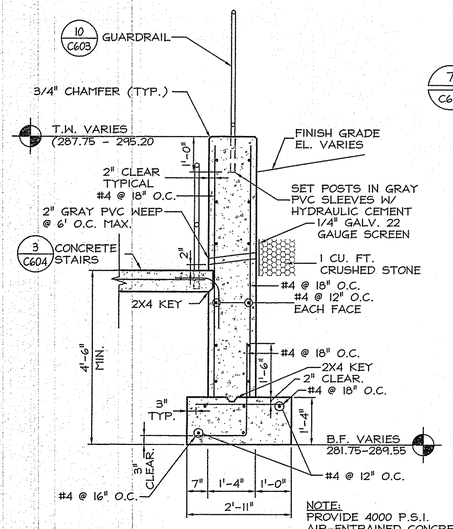


SECTION

NOTE:
PROVIDE 4000 P.S.I. AIR-ENTRAINED CONCRETE & GRADE 60 STEEL REINFORCING.

4 / C612 CONCRETE RETAINING WALL #1

NOT TO SCALE

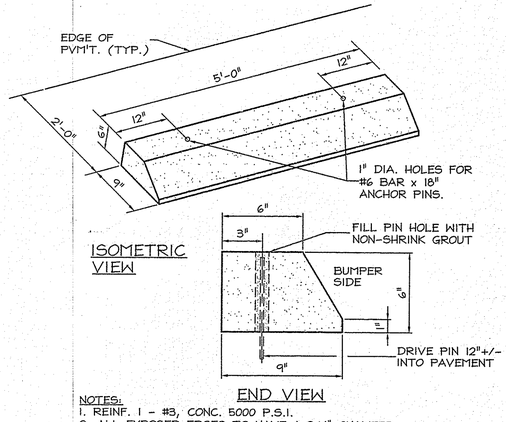


SECTION 2

NOTE:
PROVIDE 4000 P.S.I. AIR-ENTRAINED CONCRETE & GRADE 60 STEEL REINFORCING.

6 / C612 CONCRETE RETAINING WALL #1

NOT TO SCALE



NOTES:
1. REINF. 1 - #3, CONC. 5000 P.S.I.
2. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
3. ALL SURFACES TO TO HAVE A SPONGE FLOAT FINISH.

8 / C612 PRECAST CONCRETE BUMPER

NOT TO SCALE

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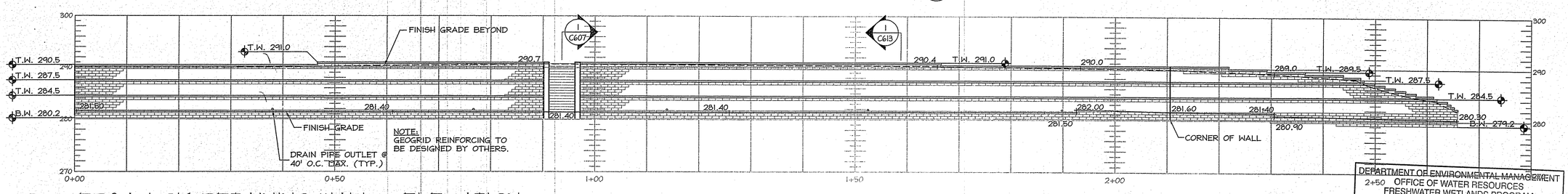

5 / C612 VERSA-LOK RETAINING WALL - ELEVATION

SCALE: 1" = 10'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
2+50 OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
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RUSSELL J. FERLAND NO. 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD
Checked by RJF

Revised on

Gilbane

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Architecture · Engineering · Interior Design

Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
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02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Sheet Contents
DETAILS

RECEIVED FEB 16 2007 ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

SCALE: AS NOTED

Project Number. 5575

Drawing No.
C612

Sheet 44 of 57

Marilee D. Wenceck

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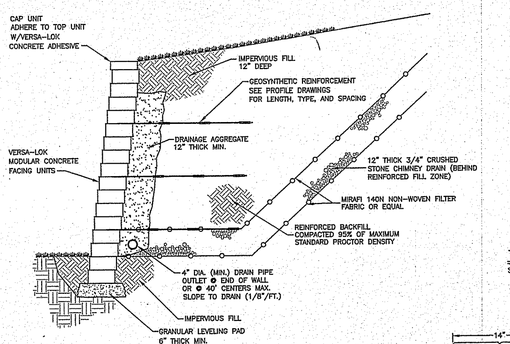
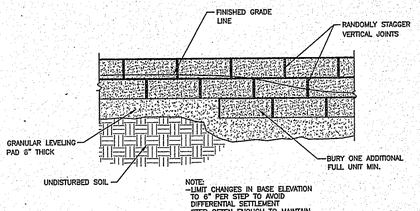
MUSTEPANO - 5575 - 557SC613-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM



TYPICAL SECTION—REINFORCED RETAINING WALL

MODULAR CONCRETE UNIT
SCALE: NONE



STEPPING BASE DETAIL

SCALE: NONE

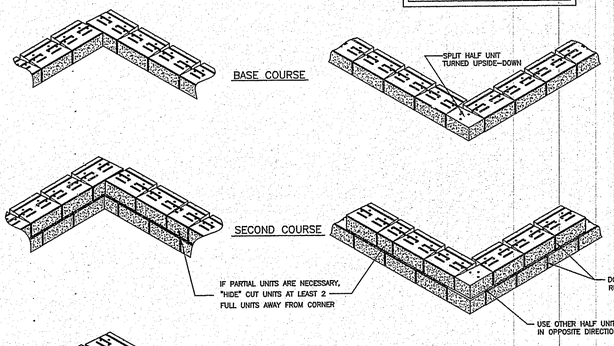
DRAIN DETAIL

WALLS OVER 4'
SCALE: NONE

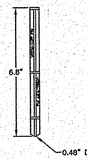
DRAIN DETAIL

WALLS UNDER 4' (IF REQUIRED)
SCALE: NONE

NOTE:
ALWAYS START PLACEMENT FOR EACH COURSE AT CORNER AND WORK OUT INTO MIDDLE OF WALL



INSTALLATION SEQUENCE

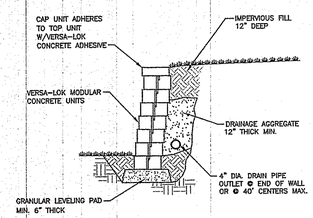


PINNING DETAIL

CROSS SECTION
SCALE:NONE

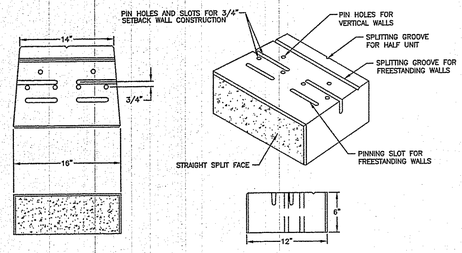
VERSA-TUFF PIN

PIN DIMENSIONS
SCALE: NONE



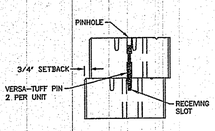
TYPICAL SECTION—UNREINFORCED RETAINING WALL

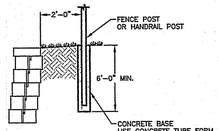
SCALE: NONE



VERSA-LOK UNIT

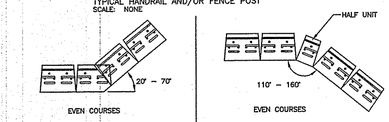
UNIT DIMENSIONS
SCALE: NONE





POST DETAIL

TYPICAL HANDRAIL AND/OR FENCE POST
SCALE: NONE

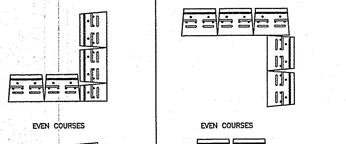


CORNER DETAIL

OBLIQUE ANGLE—OUTSIDE
SCALE: NONE

CORNER DETAIL

OBLIQUE ANGLE—INSIDE
SCALE: NONE

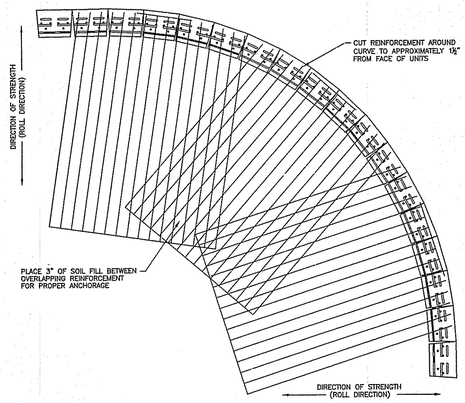


CORNER DETAIL

90° —OUTSIDE
SCALE: NONE

CORNER DETAIL

90° —INSIDE
SCALE: NONE



GEOSYNTHETIC PLACEMENT — CONVEX CURVE

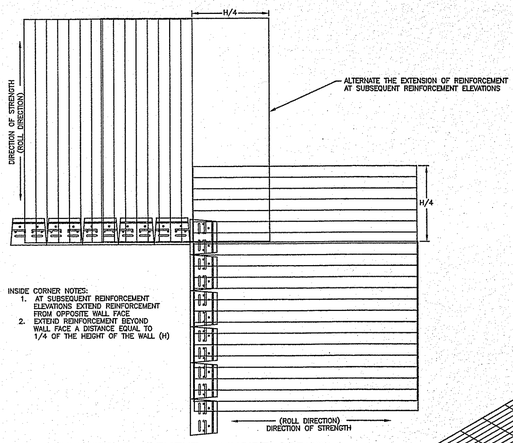
SCALE: NONE

GENERAL NOTES FOR GEOSYNTHETIC REINFORCEMENT

1. AT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS, THE GEOSYNTHETIC SHALL BE LAID HORIZONTALLY ON COMPACTED SOIL FILL AND PLACED ON TO THE VERSA-LOK UNITS.
2. CORRECT ORIENTATION (ROLL DIRECTION) OF THE GEOSYNTHETIC SHALL BE VERIFIED BY THE CONTRACTOR TO BE IN ACCORDANCE WITH THE GEOSYNTHETIC MANUFACTURER'S RECOMMENDATIONS.
3. THE GEOSYNTHETIC SHALL BE IN TENSION AND FREE OF WRINKLES PRIOR TO PLACEMENT OF SOIL FILL.
4. NOMINAL TENSION SHALL BE APPLIED TO THE GEOSYNTHETIC AND SECURED IN PLACE WITH STAPLES, STAKES OR BY HAND TENSIONING UNTIL THE GEOSYNTHETIC IS COVERED BY SIX INCHES OF SOIL FILL.

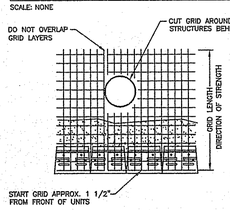
INSTALLATION NOTES

- STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
- BENCH CUT ALL EXCAVATED SLOPES.
- DO NOT EXCAVATE BEYOND EXCAVATION LINES SHOWN ON PLAN UNLESS DIRECTED BY SITE SOILS ENGINEER TO REMOVE UNSUITABLE SOIL.
- CONTRACTOR SHALL ENSURE TEMPORARY EXCAVATIONS ARE STABLE AND PROVIDE EXCAVATION SUPPORT IF NEEDED.
- SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN PARAMETERS.
- LEVELING PAD SHALL CONSIST OF WELL GRADED ROAD BASE AGGREGATE, 3/4" CRUSHED, ANGULAR GRAVEL WITH SOME FINES
- CONTRACTOR MAY OPT FOR A LEAN CONCRETE LEVELING PAD. PAD SHALL BE UNREINFORCED LEAN CONCRETE, 200-300 PSI, 3" THICK MINIMUM.
- DRAINAGE AGGREGATE SHALL CONSIST OF CLEAN ANGULAR GRAVEL, 3/4" DIAMETER WITH LESS THAN 5% FINES.
- DRAINAGE PIPE SHALL BE PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE.
- REINFORCED BACKFILL SHALL BE FREE OF DEBRIS, ORGANIC SOIL, AND EXPANSIVE SOILS.
- FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.
- COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D-698)
- COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
- COMPACTION WITHIN 3FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
- CONTRACTOR SHALL SLOPE SITE GRADES TO DIRECT SURFACE RUNOFF AWAY FROM WALL AT END OF EACH DAY TO AVOID WATER DAMAGING THE WALL WHILE UNDER CONSTRUCTION.
- ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
- FOLLOW APPLICABLE PROVISIONS OF THE WALL UNIT AND GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
- IF SITE AND SOIL CONDITIONS, WALL GEOMETRY, OR WALL LOADINGS ARE DIFFERENT THAN IN THE DRAWINGS AND THE DESIGN PARAMETERS, THE CONTRACTOR MUST CONTACT DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.

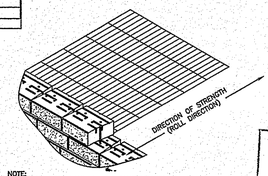


GEOSYNTHETIC PLACEMENT — INSIDE CORNER

SCALE: NONE



NOTE:
1. FOLLOW GEOSYNTHETIC GRID MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS
2. GEOGRID LENGTH AND ELEVATION PLACEMENT SHALL BE DETERMINED BY PROJECT ENGINEER



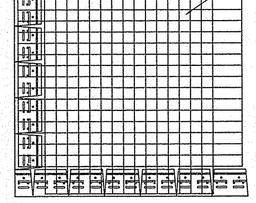
NOTE:
1. FOLLOW GEOSYNTHETIC GRID MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS
2. GEOGRID LENGTH AND ELEVATION PLACEMENT SHALL BE DETERMINED BY PROJECT ENGINEER

GEOSYNTHETIC INSTALLATION DETAIL

SCALE: NONE

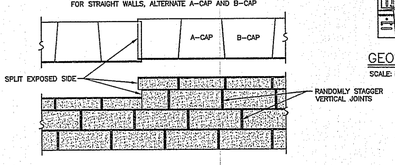
GEOSYNTHETIC AT STRUCTURES BEHIND WALL

SCALE: NONE



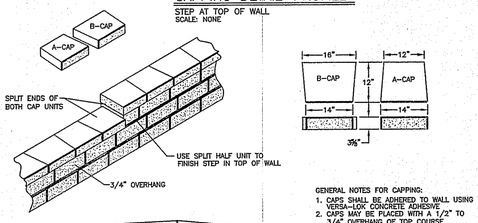
GEOSYNTHETIC PLACEMENT — OUTSIDE CORNER

SCALE: NONE

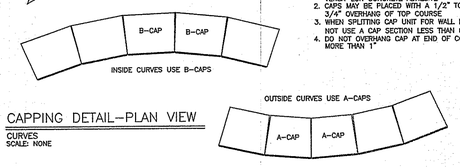


CAPPING DETAIL—PROFILE

STEP AT TOP OF WALL
SCALE: NONE



GENERAL NOTES FOR CAPPING:
1. CAPS SHALL BE ADHERED TO WALL USING VERSA-LOK CONCRETE ADHESIVE
2. CAPS MAY BE PLACED WITH A 1/2" TO 3/4" OVERHANG OF TOP COURSE
3. WHEN SPLITTING CAP UNIT FOR WALL END DO NOT USE A CAP SECTION LESS THAN 6" WIDE
4. DO NOT OVERHANG CAP AT END OF COURSE MORE THAN 1"



CAPPING DETAIL—PLAN VIEW

CURVES
SCALE: NONE

NOTES:

1. ENDS OF THE RETAINING WALLS SHALL BE BLENDED INTO THE PROPOSED/EXISTING GRADE. IN A MANNER SATISFACTORY TO THE OWNER'S SITE REPRESENTATIVE. AT THE ENDS OF A WALL WHERE BLENDING TAKES PLACE, THE ISSUE IS NOT A STRUCTURAL FACTOR BUT AN AESTHETIC FACTOR AND THE OWNER'S SITE REPRESENTATIVE IS QUALIFIED TO MAKE THIS JUDGEMENT.

2. THE PREFERED LOCATION FOR GUARDRAIL/FENCE INSTALLATION IS BEYOND THE LENGTH OF THE GEOGRID. WHERE THIS CANNOT BE ACCOMPLISHED, THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED FOR POST INSTALLATION:

A. FOR GUARDRAILS/FENCES INSTALLED WHERE GEOGRID IS LESS THAN 19" FROM THE SURFACE, SOIL ABOVE THE GEOGRID IS TO BE EXCAVATED AND THE GEOGRID HAND-CUT. THE HOLE CUT IN THE GRID IS TO BE JUST LARGE ENOUGH FOR THE POST INSTALLATION. IF THE POST EXTENDS THROUGH FURTHER GRID LAYERS, IT MAYBE DRIVEN THROUGH ADDITIONAL LAYERS, PROVIDED THE DRIVEN END IS TAPERED IN SOME FORM TO PROVIDE A POINT. SQUARE -EDGE POSTS SHALL NOT BE DRIVEN THROUGH GEOGRID LA YERS. DRIVING WOOD POSTS IN CLOSE PROXIMITY TO THE REAR OF THE WALL MAY PUSH THE WALL FACE OUTWARD DUE TO DISPLACED SOIL.

B. FOR GUARDRAILS/FENCES INSTALLED WHERE GEOGRID IS MORE THAN 19" FROM THE SURFACE, THE POST MAY BE DRIVEN THROUGH THE GRID LA YER(S), PROVIDED THE DRIVEN END IS TAPERED IN SOME FORM TO PROVIDE A POINT. SQUARE -EDGE POSTS SHALL NOT BE DRIVEN THROUGH GEOGRID LAYERS. DRIVING WOOD POSTS IN CLOSE PROXIMITY TO THE REAR OF THE WALL MAY PUSH THE WALL FACE OUTWARD DUE TO DISPLACED SOIL:

AUGERING OF POST HOLES IS ACCEPTABLE, PROVIDED GEOGRID LAYERS WITHIN 19" OF THE SURFACE ARE HAND-CUT PRIOR TO AUGERING THE HOLE.

IF THE POSTS ARE TO BE SLEEVED AND SET IN CONCRETE, ALL GRID LAYERS MUST BE HAND CUT, WITH THE CUT HOLES JUST LARGE ENOUGH TO PROVIDE ROOM FOR THE SLEEVE. USE OF A HAND-OPERATED POST -HOLE SHOVEL TO CUT THROUGH GEOGRID IS ACCEPTABLE FOR GRID LAYERS DEEPER THAN 19" FROM THE SURFACE.

THE PREFERRED MINIMUM DISTANCE FROM THE BACK OF THE WALL TO A GUARDRAIL POST IS 2 FEET, UTILIZING A 6-FOOT POST DEPTH. IF THE GUARDRAIL MUST BE CLOSER THAN 2 FEET FROM THE BACK OF THE WALL, SIGNIFICANTLY DEEPER POST DEPTHS AND/OR ALTERNATIVE METHODS OF INSTALL MAY BE REQUIRED.

3. ANY PLANTINGS SET BEHIND THE WALLS SHALL BE PLACED WITHOUT CUTTING OF THE GEOGRID REINFORCEMENT LAYERS. THIS CAN BE ACCOMPLISHED BY SETTING PLANTINGS ABOVE THE GEOGRID LAYERS OR BEYOND THE LIMITS OF THE GEOGRID LAYERS.

4. WHERE ANGLES IN THE RETAINING WALL ARE SHOWN, THE CONTRACTOR MAY CHOOSE TO CONSTRUCT THE WALL USING A CURVED FACE AS OPPOSED TO THE SHARP ANGLE DEPICTED IN THE PLAN VIEW DRAWING. CURVES IN VERSA-LOK RETAINING WALLS REQUIRE LESS CUTTING OF BLOCK DURING CONSTRUCT/ON. USE OF CURVES IN PLACE OF SHARP ANGLES MUST BE APPROVED BY THE OWNER SITE REPRESENTATIVE.

5. FOR PIPES WHICH OUTLET THROUGH THE VERSA-LOK WALL. THE SPACE NEEDED TO SQUARE-OFF PIPE TO THE WALL MAYBE FILLED WITH NON-SHRINK MORTAR, BLOCKS CUT TO SIZE OR OTHER APPROVED SEALANT METHOD TO PREVENT MIGRATION OF FINES THROUGH GAPS AROUND THE PIPE. A GRANITE OR CONCRETE LINTEL IS AN APPROVED METHOD OF SPANNING THE PIPE FOR SUPPORT OF THE WALL ABOVE.

6. ANY UTILITY LINE HAVING A DIAMETER GREATER THAN 4" AND PASSING UNDER A RETAINING WALL MUST HAVE A MINIMUM CLEARANCE OF 24" BETWEEN THE WALL BASE COURSE AND THE CROWN OF THE UTILITY LINE. WHERE THIS MINIMUM CLEARANCE CANNOT BE ACHIEVED, A GRANITE OR CONCRETE HEADER SHALL BE INSTALLED OVER THE PIPE. THIS HEADER SHALL EXTEND AT LEAST 24" BEYOND BOTH SIDES OF THE PIPE, RUNNING ALONG THE WALL BASE. THE HEADER SHALL BE AT LEAST 16" DEEP, TO MATCH THE WALL DEPTH, AND BE CENTERED BENEATH THE WALL BASE THE HEADER SHALL BE AT LEAST 8" IN HEIGHT.

GENERAL NOTES:

1. FOUNDATION SUPPORT FOR THE PROPOSED MSE RETAINING WALL MODULAR CONCRETE FACING UNITS WILL BE PROVIDED USING A LEVELING PAD CONSTRUCTED OF 6 INCHES OF SAND GRAVEL FILL OR 3/4" CRUSHED STONE BEARING ON UNDISTURBED, NATURALLY DEPOSITED GLACIAL TILL, BEDROCK, OR ON PROPERLY PLACED AND COMPACTED "GRANULAR FILL". ALL UNSUITABLE MATERIALS, INCLUDING EXISTING FOREST MAT, GRANULAR FILL, MISCELLANEOUS FILL AND SILTY SUBSOIL SHALL BE REMOVED FROM BELOW THE LEVELING PAD AREA TO A LIMIT DEFINED BY A 1 HORIZONTAL TO 1 VERTICAL (1H: 1V) SLOPE EXTENDING DOWNWARD AND OUTWARD FROM TWO FEET OUTSIDE THE EDGE OF THE LEVELING PAD TO SUITABLE BEARING SOILS OR BEDROCK.

2. PLACEMENT OF "GRANULAR FILL" BENEATH THE LEVELING PAD AREA SHALL BE PERFORMED IN HORIZONTAL LIFTS AND COMPACTED WITH VIBRATORY EQUIPMENT TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR TEST). THE MAXIMUM LOOSE LIFT THICKNESS SHOULD BE 12 INCHES FOR LARGE VIBRATORY ROLLERS AND 6 INCHES FOR HAND-OPERATED EQUIPMENT.

3. FILL PLACED OUTSIDE THE LEVELING PAD AREA, BEYOND THE 1H: 1V SLOPE DEFINED ABOVE, SHALL CONSIST OF "GRANULAR FILL" COMPACTED TO 92 PERCENT OF THE MODIFIED PROCTOR DENSITY EXCEPT WHERE IT IS PLACED AS EITHER THE SUBBASE OR BASE COURSE FOR PAVEMENT, OR AS STRUCTURAL BACKFILL FOR RETAINING WALLS.

4. ROCK EXCAVATION IN THE LEVELING PAD AREA SHALL BE CAREFULLY CONTROLLED TO AVOID FRACTURING AND LOOSENING OF ROCK BELOW THE PROPOSED FOUNDATION LEVEL. VOIDS THAT RESULT FROM BOULDER EXCAVATIONS OR THE REMOVAL OF LOOSENED ROCK SHALL BE FILLED WITH COMPACTED "GRANULAR FILL" OR CRUSHED STONE IF THE SUBGRADE IS WET.

5. A 12-INCH-THICK CHIMNEY DRAIN CONSISTING OF 3/4 INCH CRUSHED STONE ENVELOPED IN A NON-WOVEN FILTER FABRIC (MIRAFI 140N OR SIMILAR) SHALL BE PROVIDED BEHIND THE REINFORCED SOIL ZONE TO INTERCEPT AND DIVERT INFILTRATING WATER. THE WATER COLLECTED BY THE CHIMNEY DRAIN SHALL DISCHARGE THROUGH THE RETAINING WALL VIA WEEP HOLES SPACED AT A MINIMUM OF 40 FEET. THE WEEP HOLES SHALL DISCHARGE INTO THE SITE STORM WATER SYSTEM.

6. THE MSE RETAINING WALLS SHALL BE DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS PRESENTED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PROVIDE AN MSE RETAINING WALL DESIGN SUBMITTAL STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF RHODE ISLAND.

VERSA-LOK RETAINING WALL

1 / C613 — NOT TO SCALE

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RUSSELL J. FERLAND NO. 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD
Checked by RJF

Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status

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Issued On 2/9/2007

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Sheet Contents

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SCALE: AS NOTED

Project Number. 5575

Drawing No.

C613

Sheet 45 of 57

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY - 8 2007 FILE # 07-0068
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Martin D. Wencek

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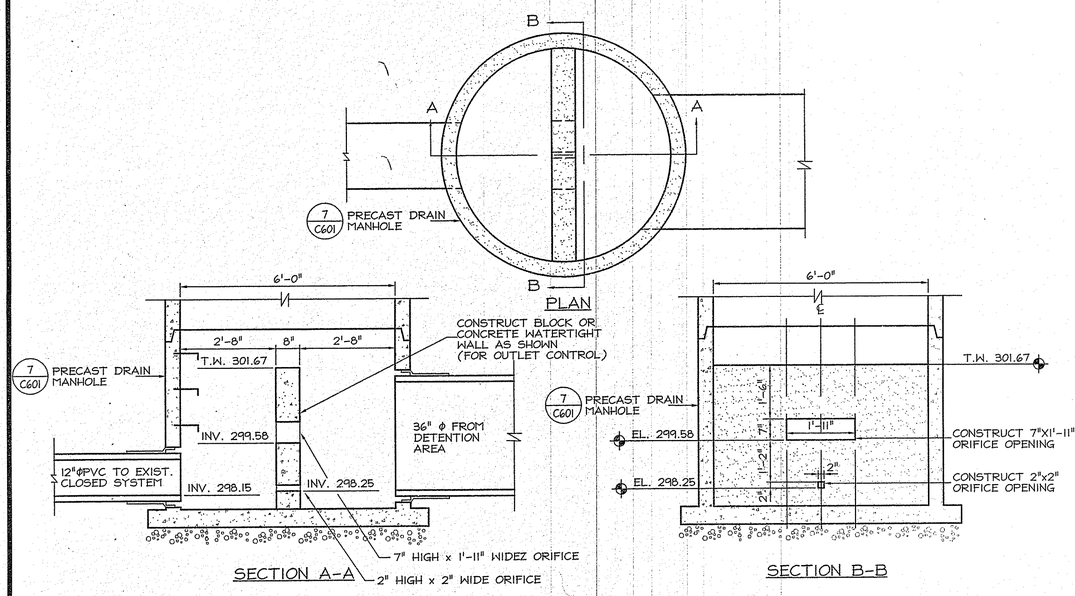
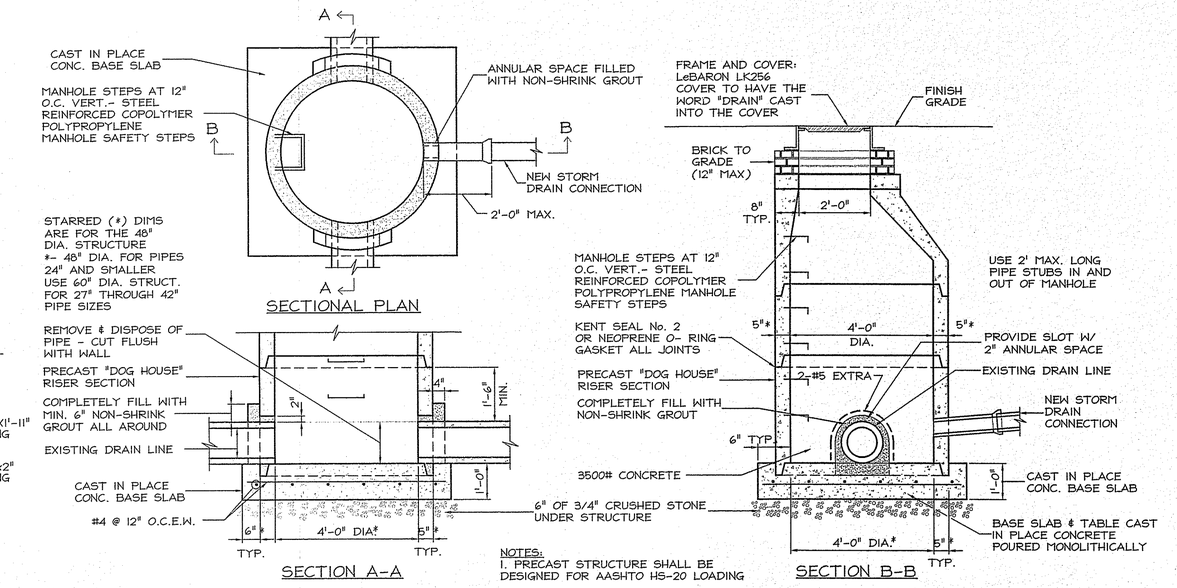


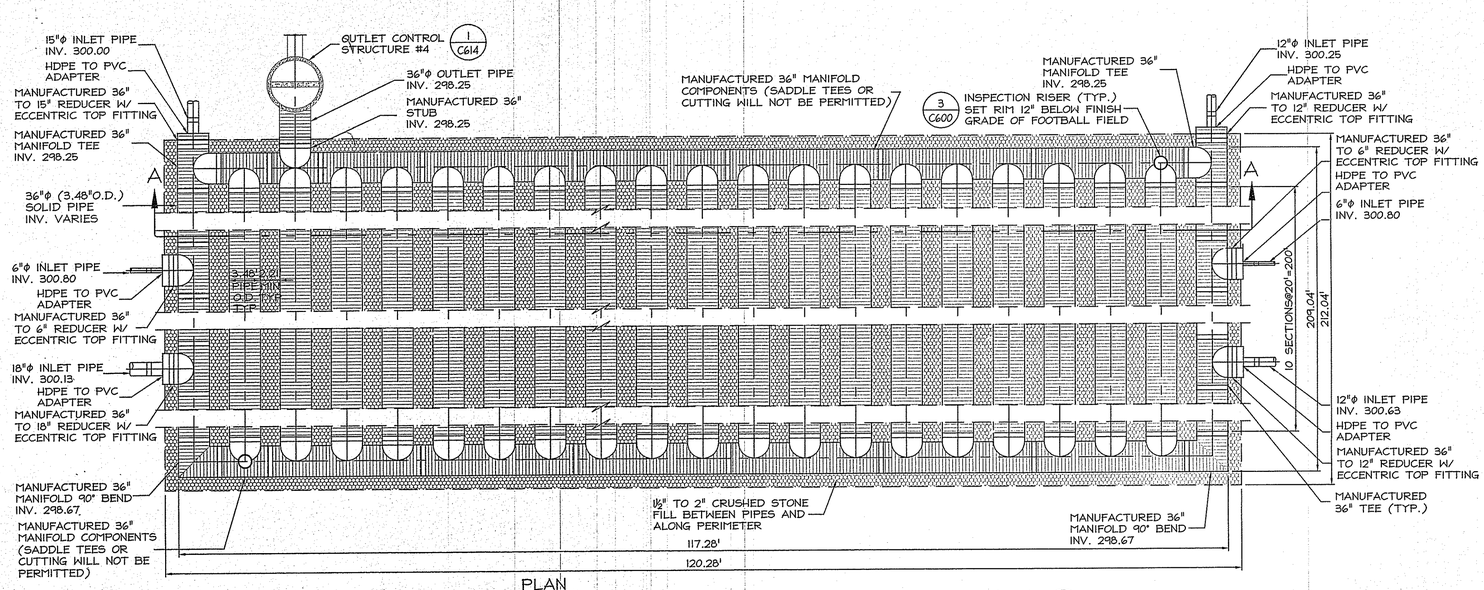
1 C614 OUTLET CONTROL STRUCTURE #4

NOT TO SCALE



2 C614 "DOGHOUSE" DRAIN MANHOLE

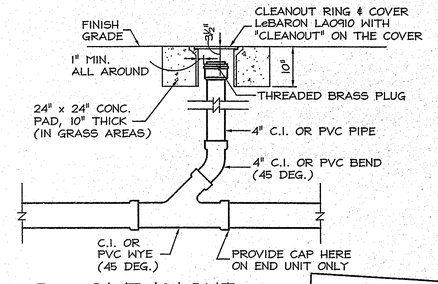
NOT TO SCALE



NOTE:
ALL PIPE CONNECTIONS, PIPE OPENINGS & STUBS SHALL BE MANUFACTURED, PIPE CUT-INS WILL NOT BE PERMITTED.

3 C614 UNDERGROUND DETENTION SYSTEM #6

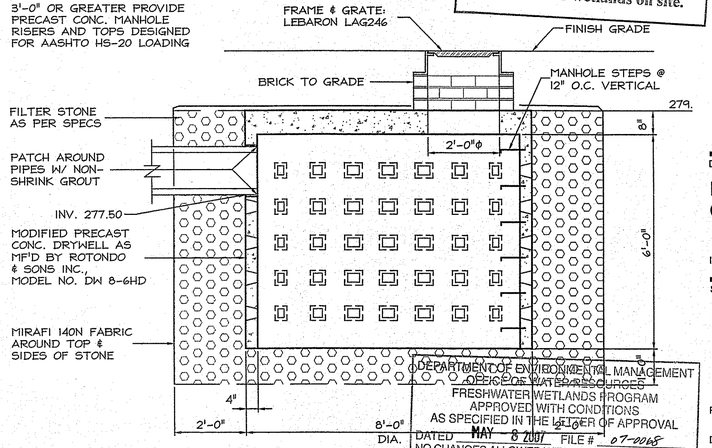
NOT TO SCALE



5 C614 CLEANOUT

NOT TO SCALE

NOTE:
WHEN DEPTH OF COVER IS 3'-0" OR GREATER PROVIDE PRECAST CONC. MANHOLE RISERS AND TOPS DESIGNED FOR AASHTO HS-20 LOADING



4 C614 DRY WELL

NOT TO SCALE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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RUSSELL J. FERLAND No. 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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DETAILS

SCALE: AS NOTED

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Drawing No.
C614

Sheet 46 of 57

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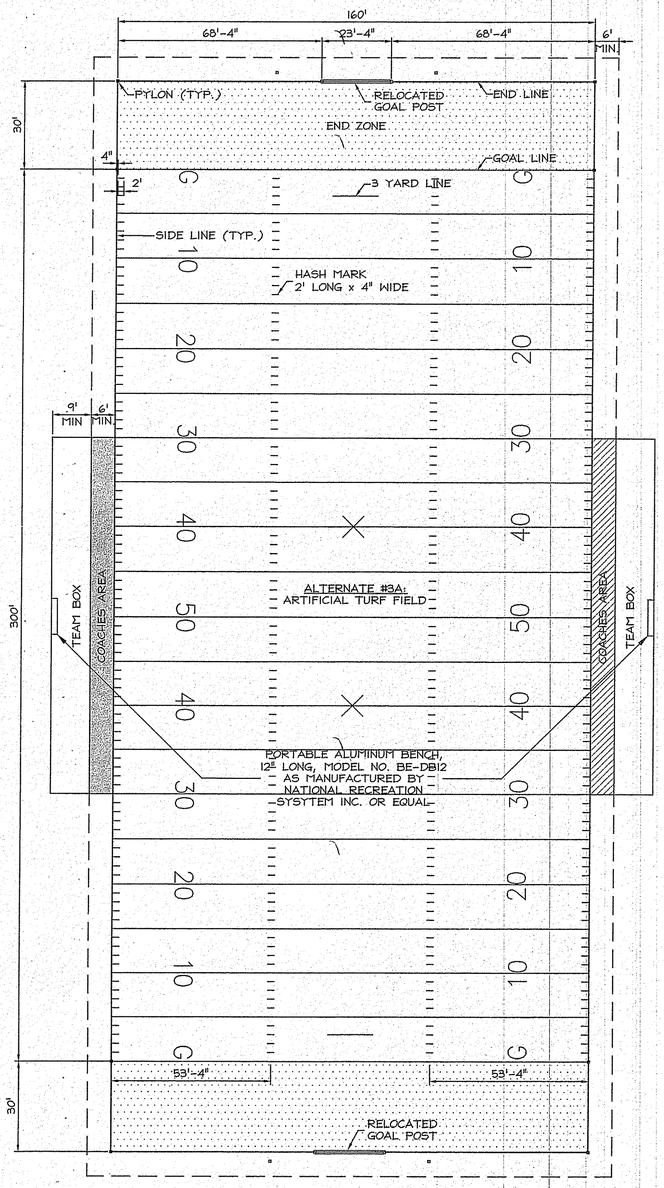
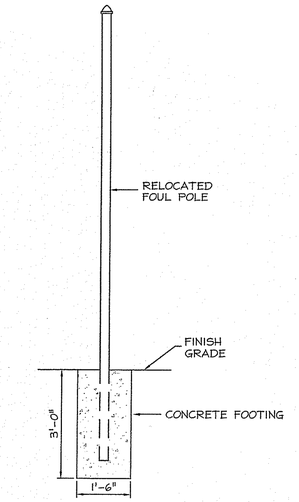
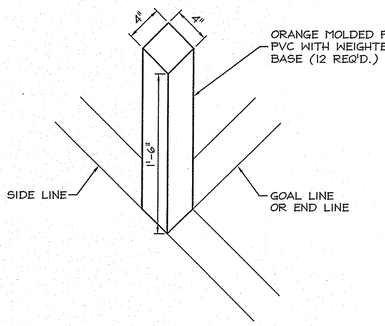


1 C615 FOOTBALL FIELD LAYOUT - ALTERNATE #3A
NOT TO SCALE

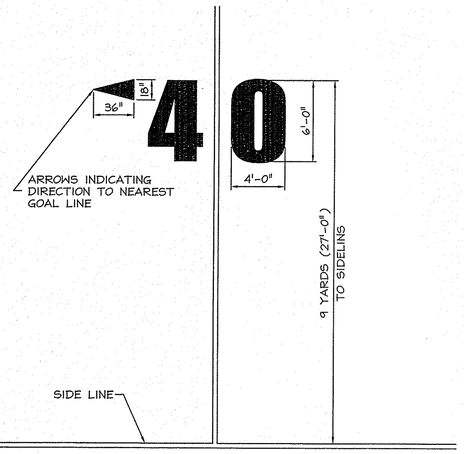
NOTE:
ALL GOAL LINES, SIDE LINES, END LINES, YARD LINES & HASH MARKS TO BE 4" WIDE.
AREA BETWEEN TEAM BOX AND SIDELINES SHOULD BE SOLID WHITE OR MARKED WITH DIAGONAL LINES.
VERIFY ALL ATHLETIC FIELD LAYOUT, DIMENSIONS & REQUIREMENTS WITH R.I. INTERSCHOLASTIC LEAGUE.



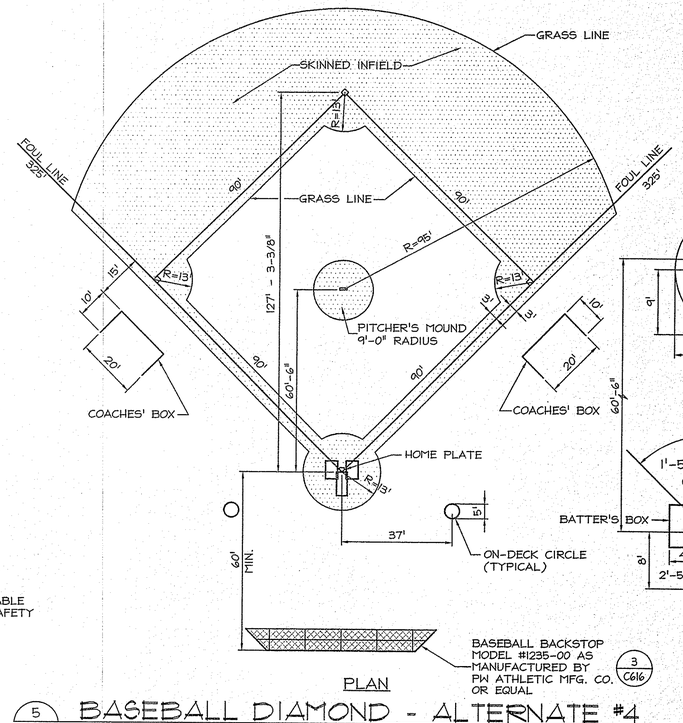
2 C615 FOUL POLE
NOT TO SCALE



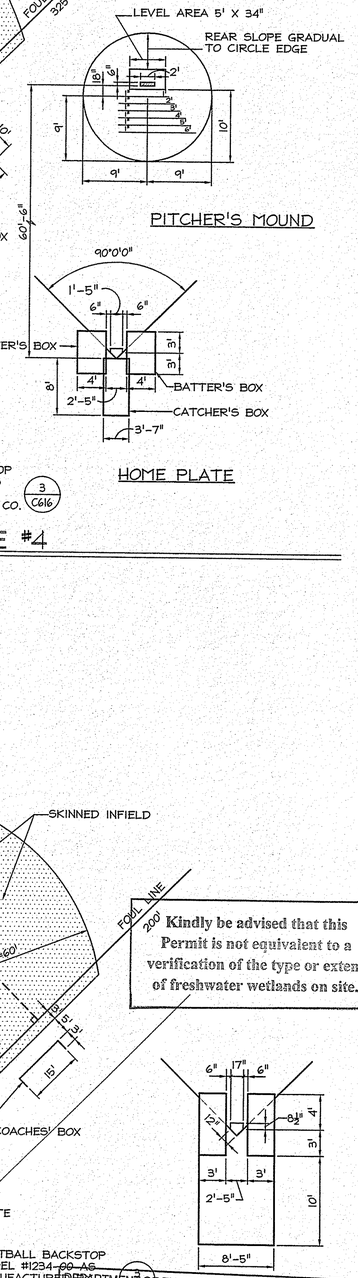
3 C615 FOOTBALL PYLON
NOT TO SCALE

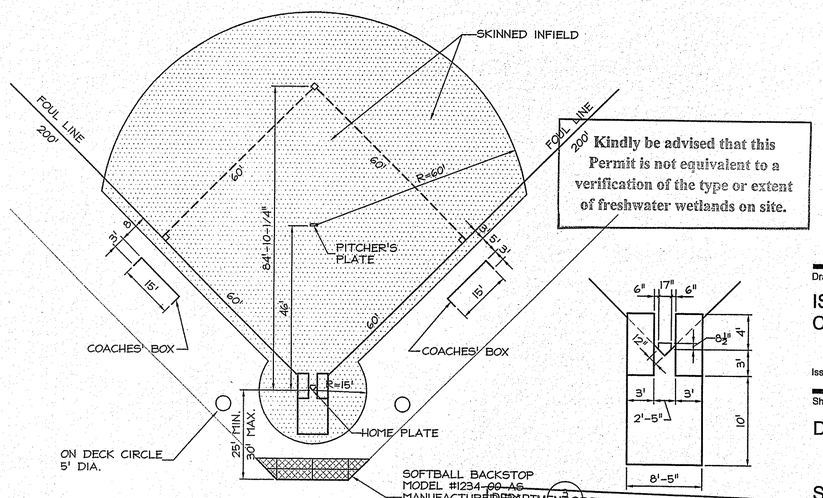


4 C615 FOOTBALL YARDLINE NUMBERS
NOT TO SCALE



5 C615 BASEBALL DIAMOND - ALTERNATE #4
NOT TO SCALE





6 C615 SOFTBALL DIAMOND
NOT TO SCALE

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DATED MAY - 8 2007 FILE # 07-0068
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NO. 3636
REGISTERED PROFESSIONAL ENGINEER
2/9/07

Drawn by MAD
Checked by RJF

Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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DETAILS

SCALE: AS NOTED

Project Number. 5575

Drawing No.
C615

Sheet 17 of 57

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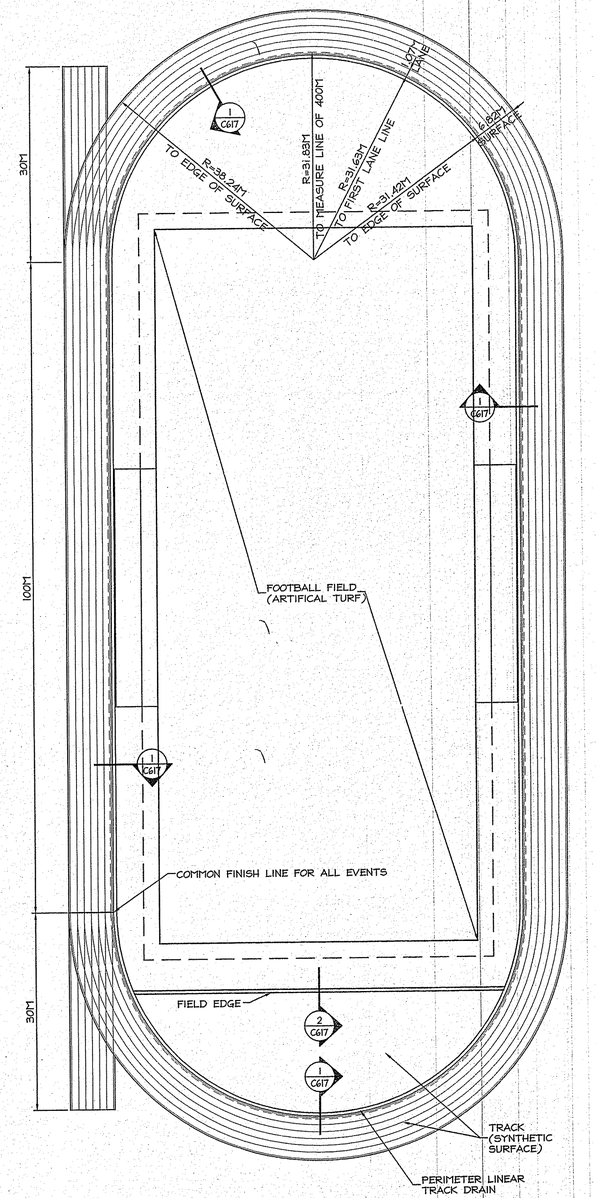
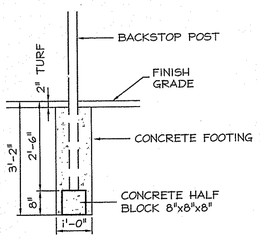


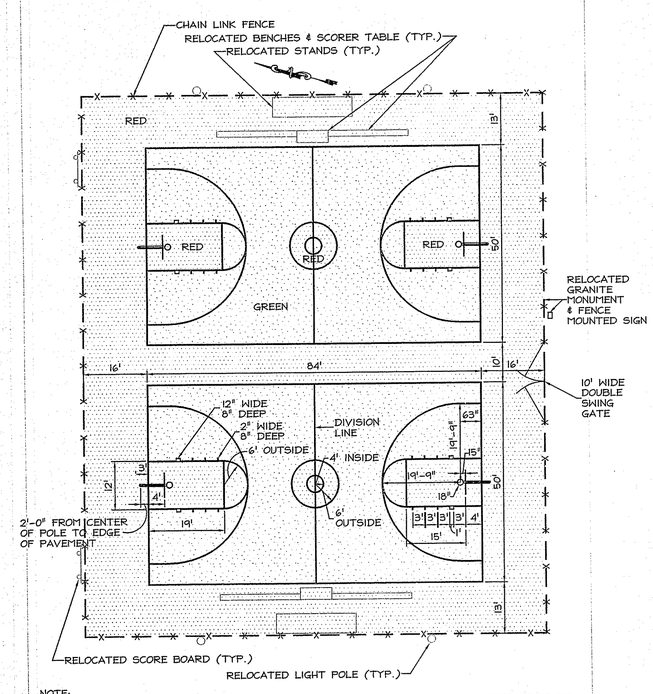
NOTE:
TRACK TO BE 6 LANES WIDE.
CONTRACTOR TO COORDINATE WITH TRACK MARKING COMPANY FOR PERCISION DIMENSIONS.
VERIFY ALL ATHELTIC FIELD LAYOUT, DIMENSIONS & REQUIREMENTS WITH R.I. INTERSCOLASTIC LEAGUE.

1 C616 — 400 METER RUNNING TRACK LAYOUT-ALT. #3B
NOT TO SCALE



NOTE:
HOODED BACK STOP AS MANUFACTURED BY PATTERSON-WILLIAMS ATHLETIC MFG. CO.

3 C616 — BACKSTOP FOOTING
NOT TO SCALE



NOTE:
1. CONTRACTOR TO TAKE DETAILED MEASUREMENTS OF EXISTING BASKETBALL COURT PRIOR TO REMOVING EQUIPMENT TO BE RELOCATED.
2. ALL LINES ARE TO BE 2" THICK UNLESS OTHERWISE SPECIFIED. PAVEMENT COLORS SHALL MATCH EXISTING COURT, OUT OF BOUNDS, JUMP BALL CIRCLE AND LANES SHALL BE RED, AND ALL OTHER IN BOUND AREAS WILL BE GREEN.

2 C616 — BASKETBALL COURT
NOT TO SCALE

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Sheet Contents
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Project Number. 5575

Drawing No.
C616

Sheet 48 of 57

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OFFICE OF WATER RESOURCES
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Maureen D. Veneck

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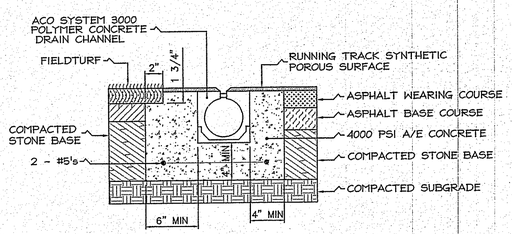


System 3000: Full Concrete
Infill Turf & Synthetic Surface Overlay

The surface drainage system shall be System 3000 as manufactured by ACO Polymer Products, Inc., Chardon, Oh. or Equal.

Channels shall be manufactured from polyester resin polymer concrete.

The system shall be 4.25 inches (108mm) nominal inside width with a 5.7 in. (145mm) overall width. The channel shall be 5.7 in. (145mm) in overall depth. The minimum slot dimension shall be 0.625 in. (12.7mm). All channels shall be interlocking with a male/female joint.

The complete drainage system shall be by ACO Polymer Products, Inc. Any deviation or partial system design and/or improper installation will void any and all warranties provided by ACO Polymer Products, Inc.

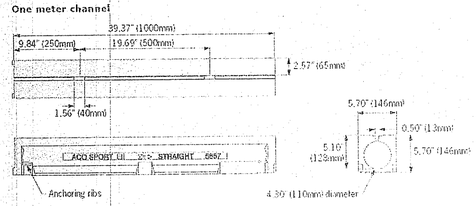
Polymer Concrete shall have material properties of: compressive strength range between 14,000-14,500 psi; flexural strength between 3600-4500 psi; tensile strength of 1500 psi. The material water absorption rate shall not exceed 0.1% by weight and shall be resistant to prolonged salt exposure, and repetitive frost cycles.

The system shall be installed in accordance with the manufacturer's instructions and recommmendations. Refer to Architect's plans for trench and catch basin location.

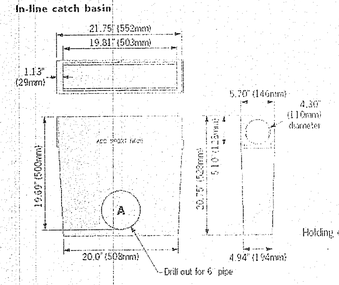
1 / C617 LINEAR TRACK DRAINAGE SYSTEM

NOT TO SCALE

One meter channel

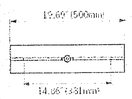


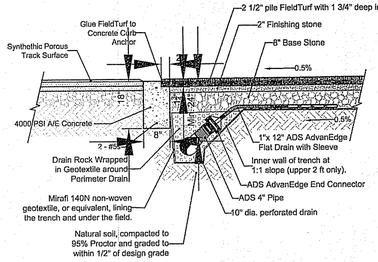
In-line catch basin



Holding capacity - 5.80 Gallons

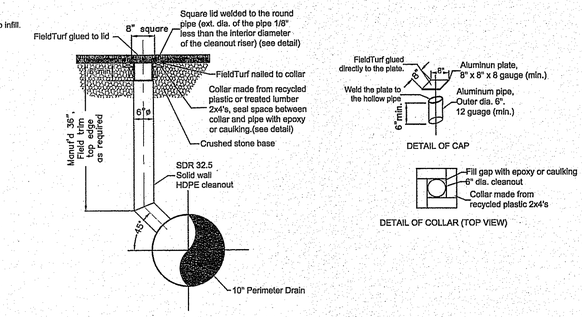
Catch basin cover





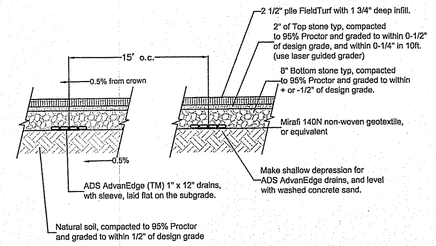
2 / C617 FIELD EDGE

NOT TO SCALE



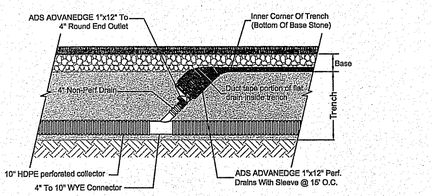
3 / C617 FIELD CLEANOUT

NOT TO SCALE



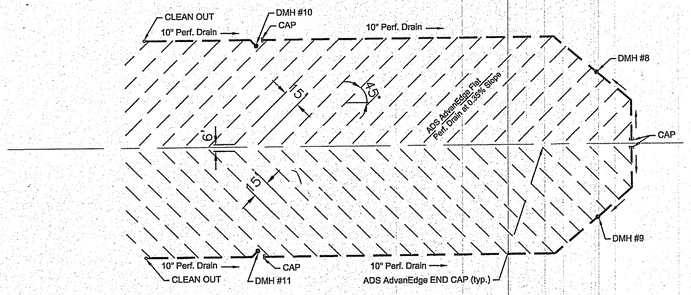
4 / C617 FIELD UNDERDRAINS

NOT TO SCALE



5 / C617 UNDERDRAIN TIE-IN

NOT TO SCALE



6 / C617 FIELD UNDERDRAIN SYSTEM PLAN VIEW

NOT TO SCALE

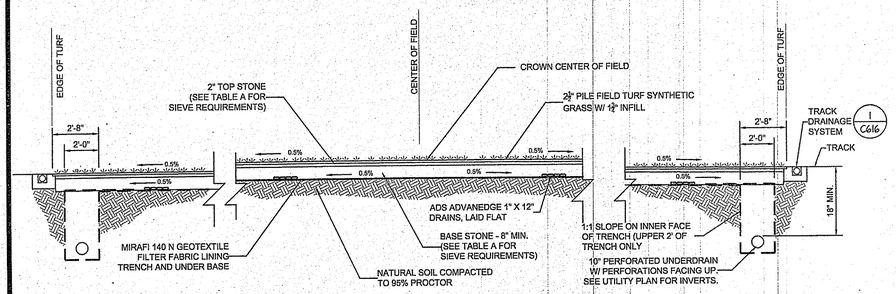


TABLE A
RECOMMENDED CRUSHED STONE GRADATIONS

BASE SPECIFICATION GUIDELINES		
SIEVE	BASE STONE	TOP STONE
2"	100	
1 1/2"	90–100	
1"	75–100	
3/4"	65–95	
1/2"	55–85	100
3/8"	40–75	85–100
#8	0–40	35–75
#16	0–20	10–55
#30	0–7	0–40
#50/60	0–5	0–15
#100	0–3	0–8
#200	0–2	0–3

7 / C617 TYPICAL FIELD CROSS-SECTION

NOT TO SCALE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY ~ 8 2007 FILE # 07-0068
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Engineer D. Wenech

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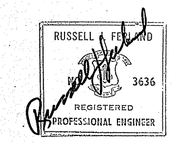

2/9/07

Drawn by MAD

Checked by RJF

Revised on

Gilbane

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Project

NORTH
SMITHFIELD
MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Sheet Contents

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Project Number. 5575

Drawing No.

C617

Sheet 49 of 57

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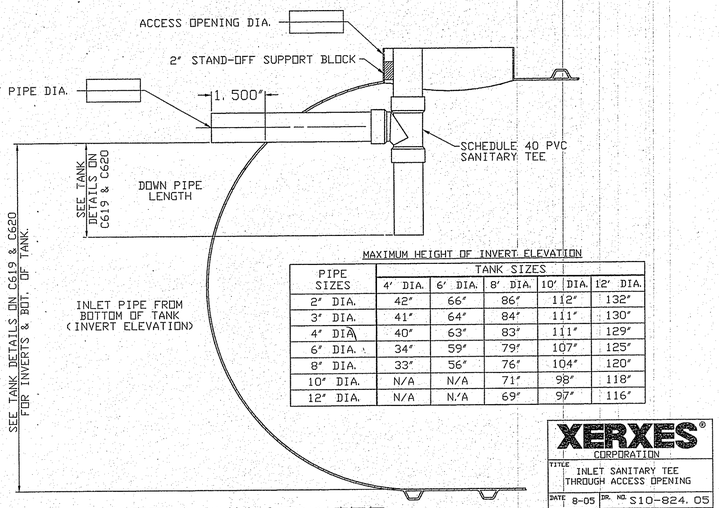


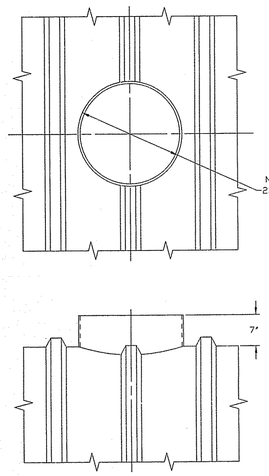
MAXIMUM HEIGHT OF INVERT ELEVATION

PIPE SIZES	TANK SIZES				
	4' DIA.	6' DIA.	8' DIA.	10' DIA.	12' DIA.
2" DIA.	42"	66"	86"	112"	132"
3" DIA.	41"	64"	84"	111"	130"
4" DIA.	40"	63"	83"	111"	129"
6" DIA.	34"	59"	79"	107"	125"
8" DIA.	33"	56"	76"	104"	120"
10" DIA.	N/A	N/A	71"	98"	118"
12" DIA.	N/A	N/A	69"	97"	116"

XERXES® CORPORATION
TITLE: INLET SANITARY TEE THROUGH ACCESS OPENING
DATE: 8-05 DR. NO. S10-824.05

1 / C618 INLET SANITARY TEE THROUGH ACCESS OPENING
NOT TO SCALE

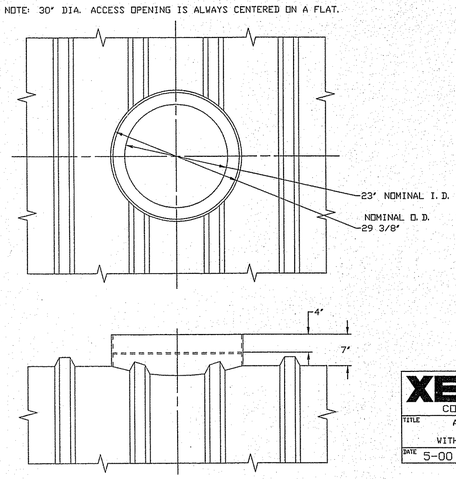
NOTE: 24" DIA. ACCESS OPENING IS ALWAYS CENTERED ON A RIB.



XERXES® CORPORATION
TITLE: ACCESS OPENING 24" DIAMETER
DATE: 5-00 DR. NO. S10-846

2 / C618 ACCESS OPENING 24" DIAMETER
NOT TO SCALE

NOTE: 30" DIA. ACCESS OPENING IS ALWAYS CENTERED ON A FLAT.



XERXES® CORPORATION
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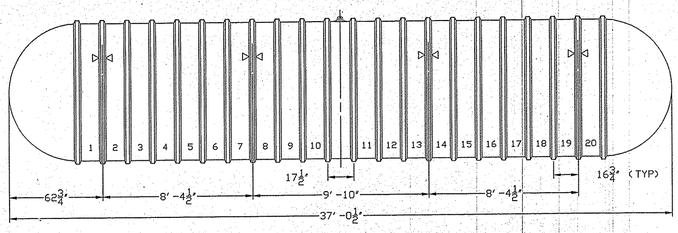
DATE: 5-00 DR. NO. S10-849

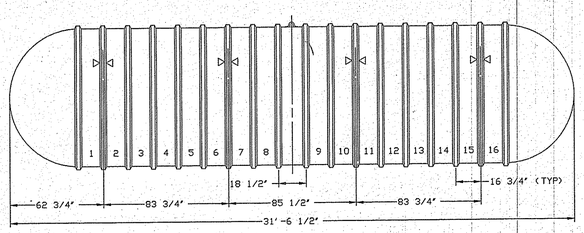
3 / C618 ACCESS OPENING 30" DIAMETER WITH INTERNAL FLANGE
NOT TO SCALE



For non UL-listed configurations only.

4 / C618 8' DIAMETER S.W.T. CAP. 12,000 GALLONS
NOT TO SCALE

XERXES® CORPORATION
TITLE: 8' DIA. S.W.T. CAP. 12,000 GALLONS
DATE: 8-05 DR. NO. S10-879.01



For non UL-listed configurations only.

6 / C618 8' DIAMETER S.W.T. CAP. 10,000 GALLONS
NOT TO SCALE

XERXES® CORPORATION
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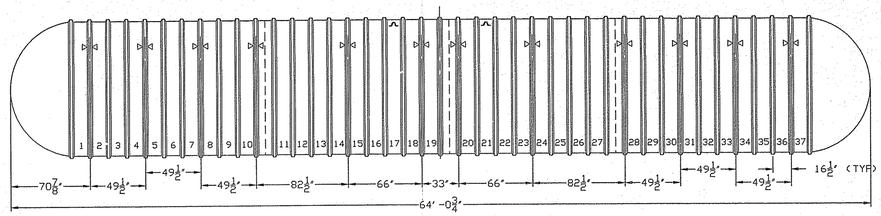
DATE: 8-05 DR. NO. S10-877.03



For non UL-listed configurations only.

5 / C618 10' DIAMETER S.W.T. CAP. 35,000 GALLONS
NOT TO SCALE

XERXES® CORPORATION
TITLE: 10' DIA. S.W.T. CAP. 35,000 GALLONS
DATE: 8-05 DR. NO. S10-893.03

NOTE:
INSTALL ALL TANKS, PEASTONE & DEADMEN IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Maureen D. Veneck

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Certification

RUSSELL J. FIRLANDA
NO. 3636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

Gilbane

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Providence, Rhode Island 02908

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
· A.P. 15; LOTS 44, 45, 46 & 57

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Sheet Contents
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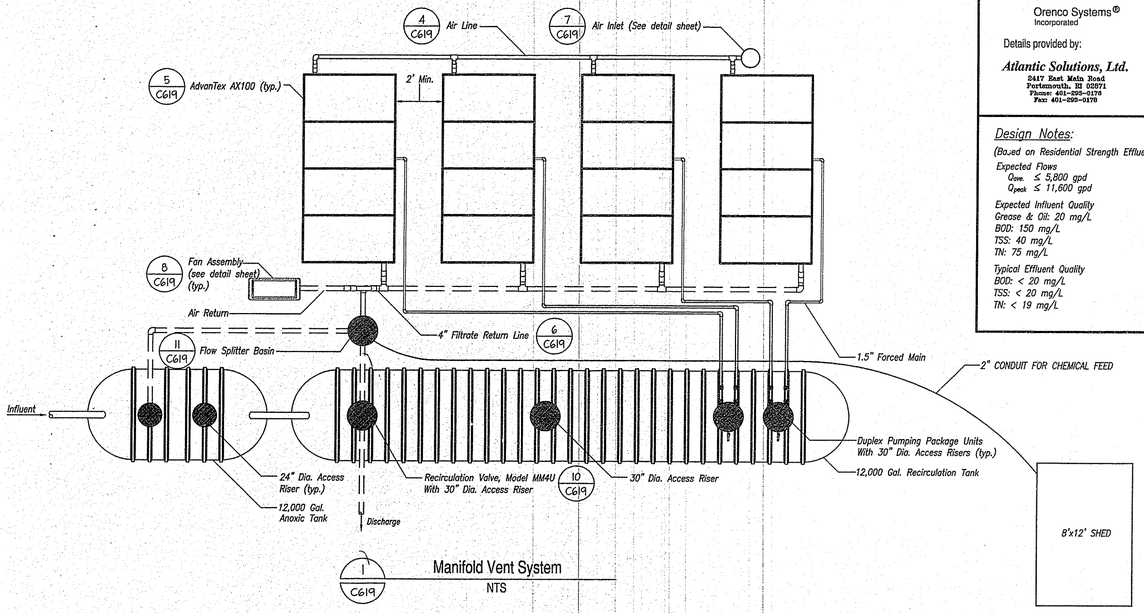
Project Number. 5575

Drawing No.
C618

Sheet 50 of 57

MDISTEFANO - 5575 - 5575C619.TIF - 2/13/2007 2:51:38 PM
MDISTEFANO - 5575 - 5575C619-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

AdvanTex® - AX100 System



1 C619 Manifold Vent System
NTS

Orenco Systems®
Incorporated

Details provided by:

Atlantic Solutions, Ltd.
5447 East Main Road
Portsmouth, RI 02871
Phone: 401-293-0178
Fax: 401-293-0178

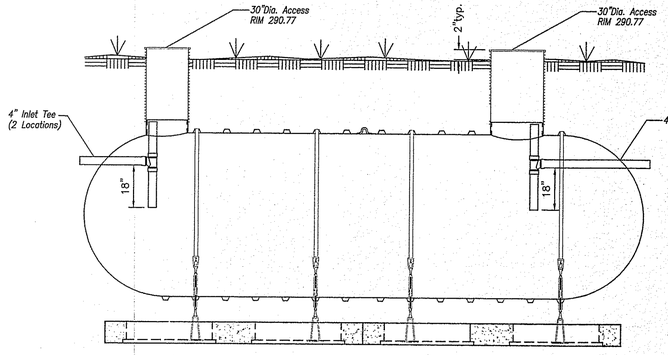
Design Notes:

(Based on Residential Strength Effluent.)

Expected Flows
$Q_{DWA} \leq 5,800$ gpd
$Q_{peak} \leq 11,600$ gpd

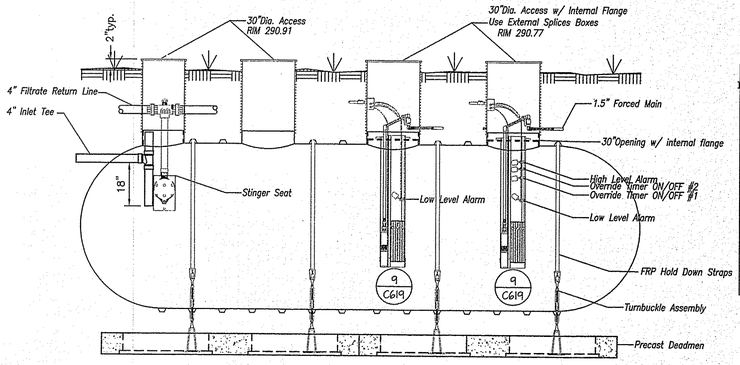
Expected Influent Quality
Grease & Oil: 20 mg/L
BOD: 150 mg/L
TSS: 40 mg/L
TN: 75 mg/L

Typical Effluent Quality
BOD: < 20 mg/L
TSS: < 20 mg/L
TN: < 19 mg/L



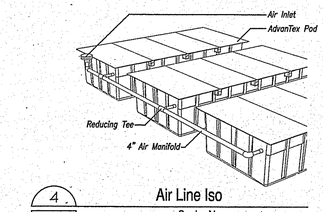
2 C619 Anoxic Tank Typical Side View, 12,000 gallons, 8' Dia.
Scale: NTS
G.W.T. ELEV. 285.0

Anoxic Tank Invert Schedule	
Description	Elevation
Inlet from Primary Tank	286.42
Inlet from Flow Splitter Basin	286.42
Outlet to Recirculation Tank	286.17
Base of Tank	279.83
Top of Tank	287.50
Rim Elevation	

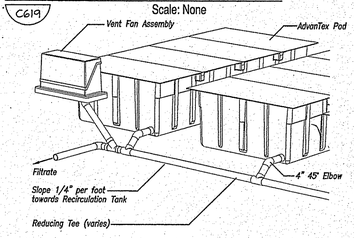


Recirculation Tank Invert Schedule	
Description	Elevation
Inlet from Anoxic Tank	286.00
Base of Tank	279.42
Top of Tank	287.08
Rim Elevation	
Splitter Valve at Riser	287.83
Stinger Seat	284.00
Low Level Alarm	282.67
Override Timer ON/OFF #1	283.83
Override Timer ON/OFF #2	284.83
High Level Alarm	285.92
Pump Discharge at Riser	287.83

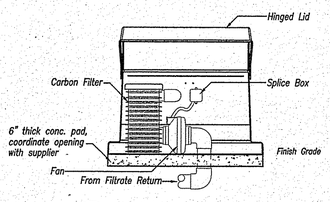
3 C619 Recirculation Tank Typical Side View, 12,000 gallons, 8' Dia.
Scale: NTS
G.W.T. ELEV. 285.0



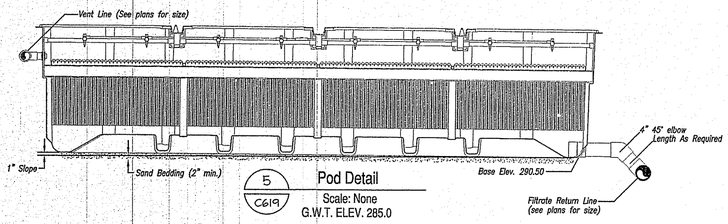
4 C619 Air Line Iso
Scale: None



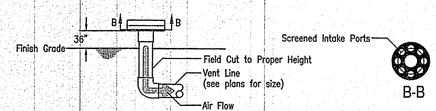
6 C619 Filtrate Return Line Iso
Scale: None



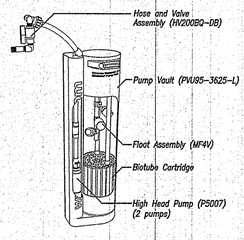
8 C619 Above Ground Fan Assembly
Scale: None



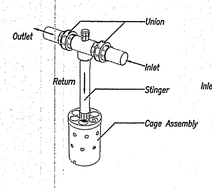
5 C619 Pod Detail
Scale: None
G.W.T. ELEV. 285.0



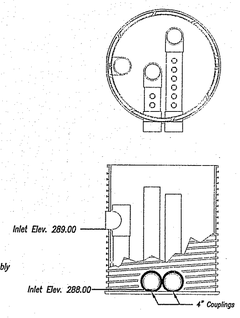
7 C619 Air Inlet Detail
Scale: None



9 C619 Recirculation Pump Vault Detail
Scale: NTS



10 C619 Recirculating Valve Detail
Scale: NTS



11 C619 Flow Splitter Basin, typ.
Scale: NTS

Design Basis:

550 Students and 30 faculty @ 20 GPD per person
Peak Flow = 11,600 GPD
Average Flow = 5,800 GPD
For grease tank sizing, assumed 25% of the design is generated in the kitchen
Kitchen Flow = 2,900 GPD

Timer Settings:

Primary Tank:
Pump designed to operate at 50 GPM, using modle PS005
Timer ON/OFF set for 48 cycles per day @ 5,800 GPD
Override ON/OFF set for 96 cycles per day @ 11,600 GPD
Timer ON - 2.42 min
Timer OFF - 27.58 min
Override ON - 2.42 min
Override OFF - 12.58 min

Recirculation Tank:
Timer ON/OFF set for weekend flow, assumed @ 1500 GPD
Override #1 ON/OFF set actual flow of 5,800 GPD
Override #2 ON/OFF set peak flow of 5,800 GPD
Timer ON - 1.49 min
Timer OFF - 14.63 min
Override #1 ON - 1.49 min
Override #1 OFF - 2.68 min
Override #2 ON - 1.49 min
Override #2 OFF - 0.59 min
All timer seetings to be changed by operator to adjust for actual flows after sufficient data has been recorded, typically 4-6 weeks of normal operation

Site Specific Notes

1.) "This plan set is based upon the expected flows and waste strengths dated 1/22/07 for the purpose of serving North Smithfield Elementary School. Any changes in usage that would affect flows or waste strength requires a review by this designer."

2.) Expected Influent Characteristics:

Characteristic	Average mg/L	Weekly Peak mg/L	Rarely Exceeds mg/L
BOD	150	250	500
TSS	40	75	150
TKN	75	85	120
FOG	20	25	30
Alkalinity	200 (minimum)		
pH	6.0-7.5 (range)		

3.) Once a facility is placed into operation, the flows and waste strengths to the facility should be monitored. If flow or any of the influent waste strengths exceed those listed in the design above, measures should be taken to reduce these parameters to those listed on the plan set. Otherwise additional treatment capacity and plant expansion will be necessary.

4.) "Don't dispose of toxics or chemicals into system. Examples: restaurant degreasers and cleansers, discharge form chemical dishwashers, wax stripper for linoleum, carpet shampoo, and waste products containing any other toxics.

5.) All pumps to be 208 Volts, 3 phase.

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Cynthia D. Wenck

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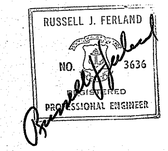

2/9/07

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Checked by RJF

Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Project Number. 5575

Drawing No.
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Sheet 51 of 57

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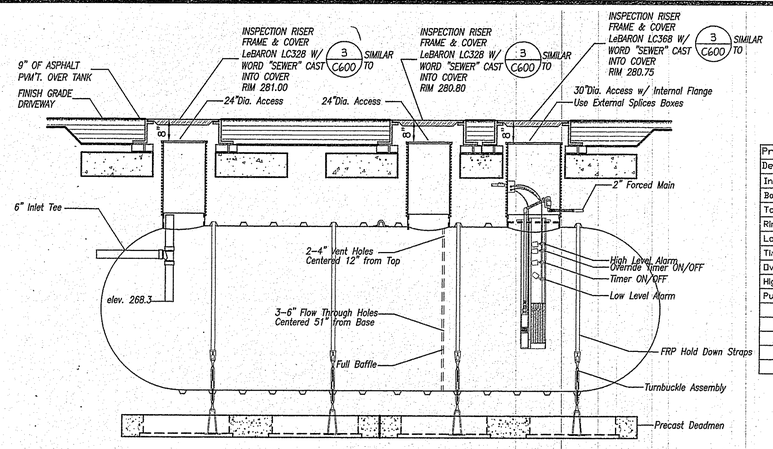
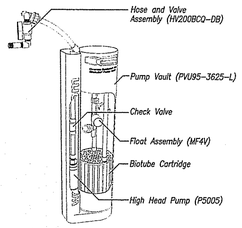
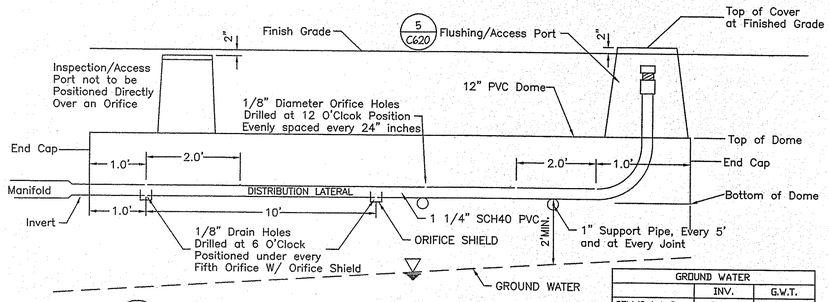


1 / C620 Primary Septic Tank Typical Side View, 35,000 gallons, 10' Dia.
Scale: NTS
G.W.T. ELEV. 271.5

Primary Septic Tank Invert Schedule	
Description	Elevation
Inlet from Building	272.80
Base of Tank	263.88
Top of Tank	273.88
Rim Elevation	
Low Level Alarm	269.80
Timer ON/OFF	269.97
Override Timer ON/OFF	271.97
High Level Alarm	272.63
Pump Discharge at Riser	275.50

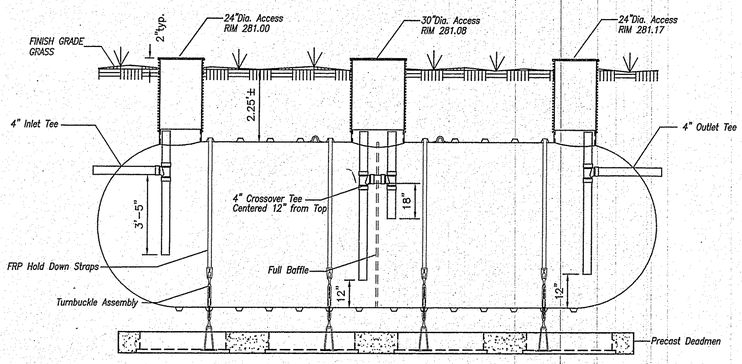


2 / C620 Primary Tank Pump Vault Detail
Scale: NTS



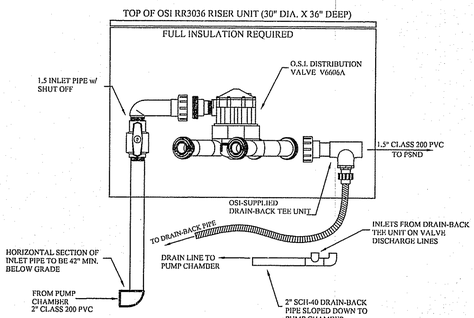
GROUND WATER		
	INV.	G.W.T.
CELL'S 1 & 3	300.42	297.0-297.8
CELL'S 2 & 4	300.93	297.9-298.6

3 / C620 Pressurized Shallow Narrow Drainfield, Trench Detail (typ.)
Scale: NTS

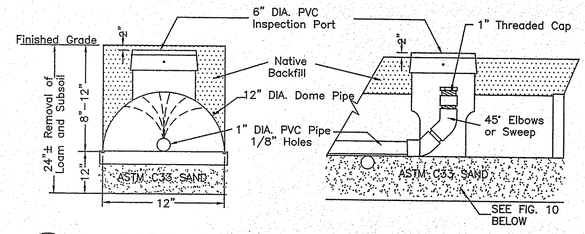


4 / C620 Grease Tank Typical Side View, 10,000 gallons, 8' Dia.
Scale: NTS
G.W.T. ELEV. 274.0

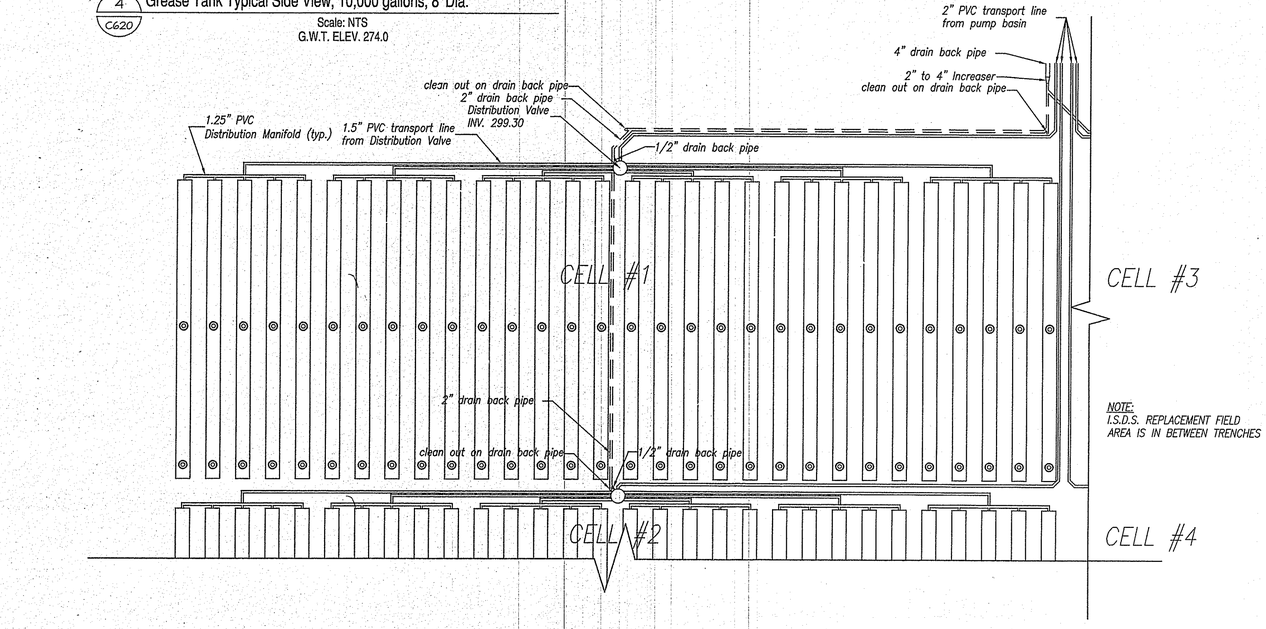
Grease Tank Invert Schedule	
Description	Elevation
Inlet from Building	277.60
Base of Tank	271.02
Top of Tank	278.68
Crossover Tee	277.48
Outlet	277.35
Rim Elevation	280.83



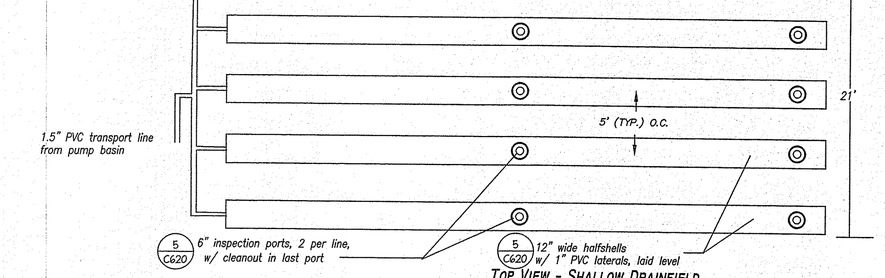
7 / C620 Distribution valve Drainback Detail
Scale: NTS



5 / C620 Pressurized Shallow Narrow Drainfield, Cross Sections (typ.)
Scale: NTS



8 / C620 LEASING FIELD CELL #1 25'x146' (1,350 L.F.) PSNDF - (TYPICAL)
Scale: NTS



6 / C620 Pressurized Shallow Narrow Drainfield, Top View (typ. per zone)
Scale: NTS

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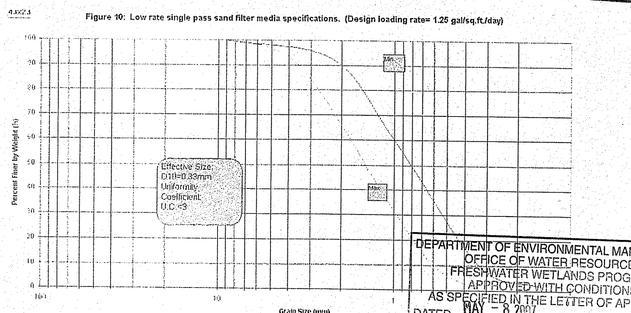

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Certification

RUSSELL J. FERLAND NO. 3636 REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD
Checked by RJF
Revised on

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RGB
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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On 2/9/2007

Sheet Contents
DETAILS

RECEIVED FEB 16 2007 RI DEPT. OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

SCALE: AS NOTED

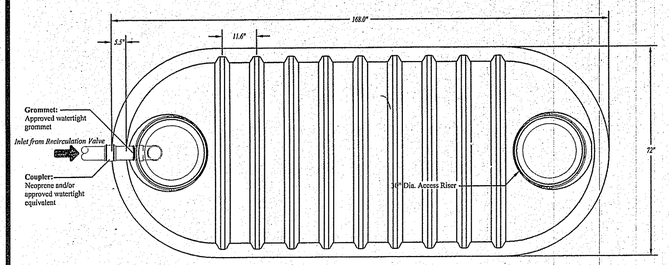
Project Number. 5575

Drawing No.
C620

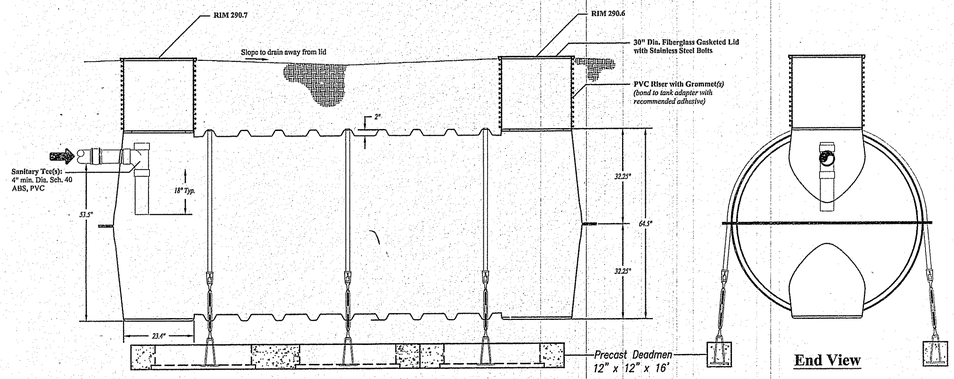
Sheet 52 of 57

MDISTEFANO - 5575 - 5575C621.TIF - 2/9/2007 2:51:38 PM

MDISTEFANO - 5575 - 5575C621-LAYOUT 36 X 24.PLT - 2/9/2007 8:09:30 AM

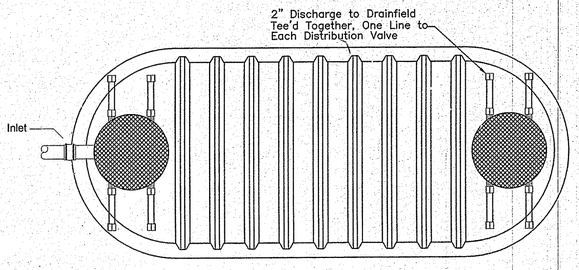


Top View



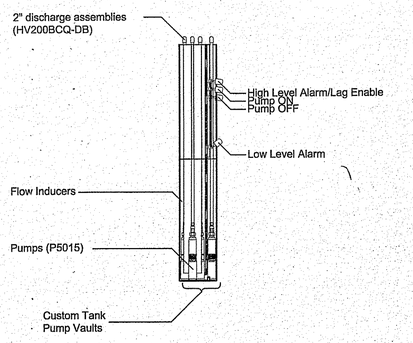
Side View 1500 gal. Orenco Fiberglass Tank

End View

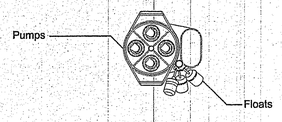


Discharge Tank Invert Schedule	
Description	Elevation
Inlet from Recirculation Valve	286.25
Base of Tank	281.79
Top of Tank	297.17
Rim Elevation	
Low Level Alarm	284.48
Pump OFF	284.79
Pump ON	285.04
High Level Alarm	285.75
Pump Discharge at Riser	287.50

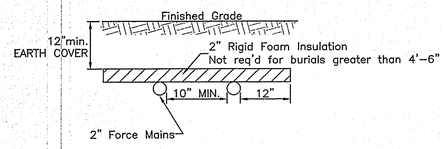
1 / C621 — 1,500 Gallon Dose Tank, Top View Detail
Scale: NTS
G.W.T. 285.00



2 / C621 — Custom Pump Vault Detail, Side View
Scale: NTS



3 / C621 — Custom Pump Vault Detail, Top View
Scale: NTS



4 / C621 — Pipe Insulation Detail
Scale: NTS

Design Basis:

Each leachfield has 115 Orifice per zone, dosed at 0.25 gal/orifice/dose
Dose Volume = 28.75 gal/dose (Maximum)
Each dose cycle to have 4 pumps operating, one form each duplex set.
Total Dose Volume = 115 gal/dose (Maximum)
Total Dose = 110 gallons

I.S.D.S. GENERAL NOTES:

1. DO NOT OVER-DIG THE WIDTH OR DEPTH OF THE DRAINFIELD TRENCHES. SCARIFY BOTTOM WELL WITH ONION RAKE BEFORE INSTALLING COMPONENTS.

2. THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ARCHITECT/ENGINEER TO INSPECT BOTTOM OF EXCAVATION BEFORE PLACING ASTM C33 SAND.

3. KEEP THE BOTTOM OF THE INDIVIDUAL TRENCHES LEVEL.

4. CONSTRUCT LEACHING SYSTEM AS INDICATED. ALL OTHER REQUIRED DATA NOT SPECIFIED OR DETAILED SHALL BE STRICTLY IN ACCORDANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEM'S LATEST AMENDMENT FOR THE STATE OF RHODE ISLAND.

5. ALL BUILDING SEWERS SHALL CONSIST OF DUCTILE IRON: CEMENT LINED, THICKNESS CLASS 52, CONFORMING TO ANSI A21.51 AND ANSI A21.4 WITH WATERTIGHT JOINTS.

6. THE FORCE MAIN SHALL CONSIST OF SCH. 40 PVC PRESSURE CLASS 200 PIPE WITH WATERTIGHT JOINTS. PIPE CLOSER THAN 25 FEET OF A DRAIN LINE OR OTHER STORM DRAINAGE COMPONENT SHALL HAVE SOLVENT WELDED JOINTS.

7. PVC PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

8. IT IS ESSENTIAL THAT ALL DISTANCES AND ELEVATIONS BE ACCURATELY SET PRIOR TO THE START OF CONSTRUCTION.

9. ALL STAGES OF CONSTRUCTION MUST BE SUPERVISED BY THE SYSTEM DESIGNER.

10. NO FINISH GRADE WITHIN 25' OF THE DISPOSAL TRENCHES SHALL BE BELOW THE INVERT ELEVATION OF 300.42 FOR CELLS 1 AND 3 OR 300.93 FOR CELLS 2 AND 4.

11. SYSTEM IS DESIGNED FOR 560 STUDENTS/FACULTY - 11,600 GPD.

12. THERE ARE NO EXISTING AND NO PROPOSED PUBLIC WELLS WITHIN 500' OF THIS SYSTEM.

13. THERE ARE NO PRIVATE WELLS OR SUBSURFACE DRINKING WATER SUPPLIES OR TRIBUTARIES INCLUDING STORM OR SUBSURFACE DRAINS, THAT DISCHARGE THERETO WITHIN 200' OF THIS SYSTEM, THAT HAVE NOT BEEN LOCATED ON THE SITE PLAN.

14. THERE ARE NO SUBSURFACE DRAINS, FOUNDATION DRAINS OR STORM DRAINS WITHIN 25' OF THE SHALLOW NARROW DRAINFIELD.

15. SEPTIC TANK, RECIR TANK, PUMP TANK, AND ANOXIC TANK SHALL BE SET ON A LEVEL STABLE BASE OF 12" COMPACTED PEA STONE.

16. THERE ARE NO I.S.D.S. WITHIN 100' OF PROPOSED AND EXISTING PRIVATE WELL SITES.

17. THE ENTIRE I.S.D.S., PUMPS, FANS, ETC. ARE ON AN EMERGENCY GENERATOR.

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Certification

RUSSELL J. FERLAND
No. 3636
REGISTERED PROFESSIONAL ENGINEER

2/9/07

Drawn by MAD

Checked by RJF

Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL

1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI
02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Sheet Contents

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Project Number. 5575

Drawing No.

C621

Sheet 53 of 57

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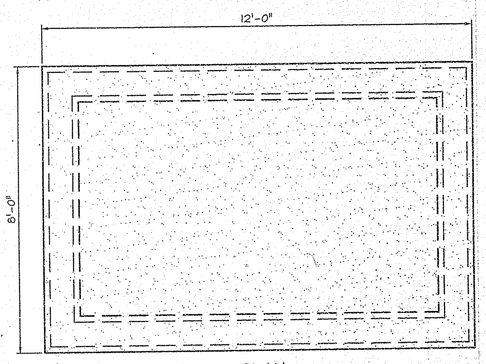
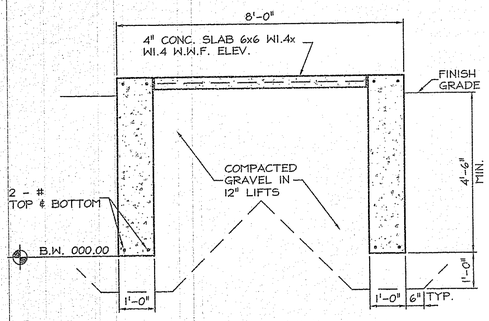


PLAN

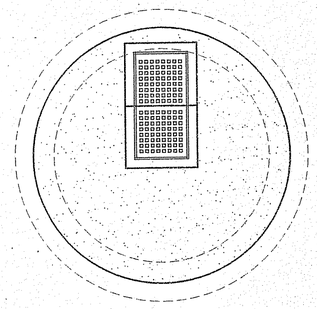
NOTE:
PROVIDE ANCHOR BOLTS AS REQUIRED BY THE SHED MANUFACTURER. STUB UP CONDUITS & PIPING TO SUIT SANITARY SYSTEM NEEDS.



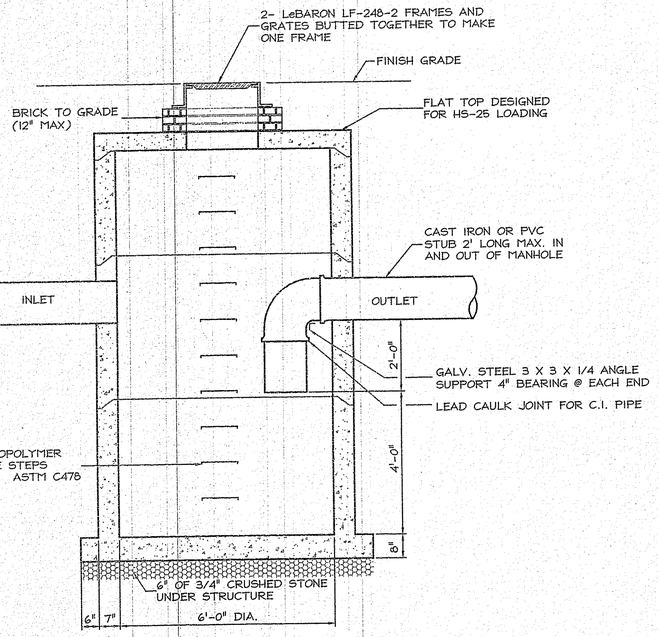
SECTION

1 C622 SEWER SHED CONCRETE PAD

NOT TO SCALE



TOP VIEW



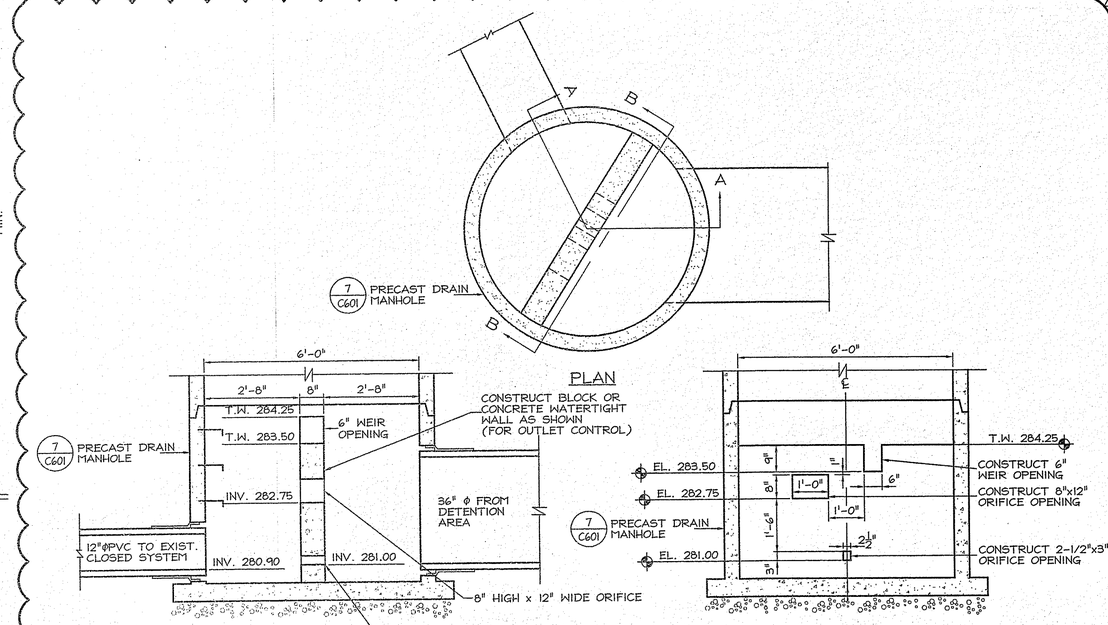
SECTION

NOTES:

1. STRUCTURE IS DESIGNATED ON PLANS AS "D.G.W.Q.I.".
2. PRECAST STRUCTURE SHALL BE DESIGNED FOR AASHTO HS-20 LOADS & FLAT TOP DESIGNED FOR HS-25 LOADS.
3. THE OIL/WATER SEPARATORS SHALL BE MAINTAINED ON A CONTINUAL BASIS, AS NEEDED. AT MINIMUM, ANNUAL CLEANOUT OF ALL OIL/WATER SEPARATORS SHALL BE PERFORMED. MAINTENANCE OF THE DISPOSAL SYSTEM WILL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY.
4. A DISPOSAL SYSTEM MAINTENANCE REPORT, DETAILING ANY OPERATIONAL PROBLEMS AND SPILL OR DUMPING INCIDENTS FOR THE PREVIOUS 12 MONTH PERIOD, SHALL BE SUBMITTED TO THE UIC PROGRAM ON AN ANNUAL BASIS. THE MAINTENANCE REPORT SHALL BE DUE BY THE LAST DAY OF THE MONTH OF APRIL FOR EVERY YEAR THE DISPOSAL SYSTEM UTILIZED.
5. ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION TO DEM - DIVISION OF GROUNDWATER & ISDS GROUND WATER DIVISION.
6. ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE RIDEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF THE GROUNDWATER.
7. UPON TRANSFER OF THE PROPERTY, THE FUTURE OWNER SHALL BE INFORMED AS TO LEGAL RESPONSIBILITY OF OPERATING THE DISPOSAL SYSTEM, AS INDICATED.

2 C622 DOUBLE GRATE WATER QUALITY INLET

NOT TO SCALE



3 C622 OUTLET CONTROL STRUCTURE #5

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3636
REGISTERED PROFESSIONAL ENGINEER

3/7/07

Drawn by MAD

Checked by RJF

Revised on

1 REVISED: 3/7/2007

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1850 PROVIDENCE PIKE
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02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND
A.P. 15; LOTS 44, 45, 46 & 57

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Sheet Contents

DETAILS

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Project Number. 5575

Drawing No.

C622

Sheet 54 of 57

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Martin D. Wencek

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LEGEND

* MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS
* ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

RACEWAYS AND WIRING

P4–1,3,5 — SINGLE PHASE HOMERUNS TO PANELBOARD. "P4" DENOTES PANEL. "1,3,5" DENOTES CIRCUIT NUMBERS. [(2) 20A, 1P CIRCUITS] NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C. NO SLASH MARKS INDICATE 2#12 & 1#12G–3/4"C UNLESS INDICATED OTHERWISE.

P4–2 / 20/3 — MULTI–POLE HOMERUN TO PANELBOARD. "P4" DENOTES PANEL. "2" DENOTES CIRCUIT NUMBER. 20 AMP 3 POLE C/B. NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C.

NOTES:
1. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.

E — 2#10,#10G EMERGENCY ONLY WIRING

LIGHTING FIXTURES

A — FLUORESCENT LIGHTING FIXTURE CEILING OR RECESSED MOUNTED. "A" DENOTES FIXTURE TYPE, "2" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL,

LIGHT FIXTURE WIRED TO CONSTANT–ON "NIGHT LIGHT" CIRCUIT

NL — FLUORESCENT BARE LAMP STRIP OR INDUSTRIAL STRIP

INCANDESCENT OR COMPACT FLUORESCENT RECESSED OR SURFACE MOUNTED LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

WALL WASH OR DIRECTIONAL LIGHTING FIXTURE

CEILING MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN – SHADING INDICATES FACE PLATE(S)

EMERGENCY BATTERY UNIT

REMOTE EMERGENCY ONLY LIGHT HEADS – SINGLE OR DOUBLE AS SHOWN

WP — WEATHER PROOF EMERGENCY ONLY LIGHT FIXTURE

TRACK LIGHTING AND HEADS, LENGTH OF TRACK AND QUANTITY OF HEADS AS SHOWN ON FLOOR PLANS

TOGGLE SWITCHES (MOUNTED 48" AFF)

Sᵒᵉ — SINGLE POLE TOGGLE SWITCH. "o" DENOTES FIXTURE CONTROL. "oc" DENOTES INTEGRAL OCCUPANCY SENSOR. "UNENCO" CAT# WSR–1200

S3 — THREE WAY TOGGLE SWITCH

S4 — FOUR WAY TOGGLE SWITCH

SK — KEY OPERATED SWITCH

SP — SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT

Sx — EXISTING SINGLE POLE TOGGLE SWITCH

SD — INCANDESCENT DIMMER SWITCH. 1000 WATT DIMMER MINIMUM

OC SDOC C — OCCUPANCY SENSOR LIGHTING CONTROL. "C" DENOTES CEILING MOUNTED

S3WC — THREE POSITION MOMENTARY CONTACT SWITCH, CENTER OFF

FS — FAN SPEED CONTROL SWITCH

RECEPTACLES (MOUNTED 18" AFF OR AS INDICATED ON ARCHITECTURAL PLANS)

IG GFI WP — DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER, "GFI" DENOTES GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, "IG" DENOTES ISOLATED GROUND TYPE DEVICE, "WP" DENOTES WEATHER PROOF COVER

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS

DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON THE ARCHITECTURAL PLANS

DOUBLE DUPLEX RECEPTACLE

DUPLEX RECEPTACLE ONE HALF SWITCH CONTROLLED

EWC — GFI DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER

DUPLEX RECEPTACLE FLOOR MOUNTED

A — SPECIAL PURPOSE RECEPTACLE, "A" DENOTES TYPE, SEE SPECIAL PURPOSE RECEPTACLE SCHEDULE

SINGLE RECEPTACLE

T — TAMPER RESISTANT DUPLEX RECEPTACLE

W,X,Y,Z — WIREMOLD, TWO COMPARTMENTS WITH OUTLETS 12" O.C. UNLESS OTHERWISE NOTED. WIRE MOLD G3000 SERIES

POKE — POWER/DATA MOUNTED ON COUNTERTOP COMPLETE WITH 4 DATA OUTLETS AND 4 GFI RECEPTACLES IN COMMON ENCLOSURE CONNECTED BACK TO BACK. EACH SIDE TO HAVE 2 DATA AND 2 GFI RECEPTACLES. HUBBELL #PR880 PEDISTAL WITH 2 #PP262 STYLE LINE DUPLEX PLATES AND 2 #PP 82 DUPLEX PLATES. EACH PEDESTAL SHALL CONTAIN 1 HUBBELL GFCI RECEPTACLE #GF 5252 G4 WITH DOWN STREAM PROTECTION AND 2 HUBBELL STYLE LINE RECEPTACLE #HBL 2152 G4 AND 4 HUBBELL DATA OUTLETS #BR 1086.

TYPICAL STUDENT WORK SPACE IN PHYSICS AND CHEMISTRY DEPARTMENT TO CONTAIN (2) 2 GANG BOXES ONE CONTAINING HUBBELL #GF 5252 G4 GFI RECEPTACLE WITH DOWN STREAM PROTECTION. ALSO ONE HUBBELL #HBL 2152 G4 RECEPTACLE COMPLETE WITH 2 GANG STAINLESS STEEL PLATE. THE SECOND BOX SHALL CONTAIN 2 HUBBELL #BR 1086 RECEPTACLE AND 2 GANG STAINLESS STEEL PLATES.

SITE PLAN SYMBOLS

SB o,b N1 — POLE MOUNTED METAL HALIDE LUMINAIRE

PANEL PHASE DESIGNATION

SC S1 N1 — POLE MOUNTED DOUBLE METAL HALIDE LUMINAIRE

NOT SHADED LUMINAIRE INDICATES, ON AT DUSK OFF AT PRESET TIME

SHADED LUMINAIRE INDICATES ON AT DUSK OFF AT DAWN

UNDER GROUND SITE LIGHTING FEEDERS
"N" INDICATES–NORMAL LTG, ON AT DUSK OFF AT PRESET TIME
"S" INDICATES SECURITY LTG, ON AT DUSK OFF AT DAWN
"G" INDICATES – GROUND WIRE
PVC INDICATES SCHEDULE 40 PVC CONDUIT

P — "P" INDICATES PRIMARY DUCT BANK

C — "C" INDICATES COMMUNICATIONS DUCT BANK

HH — HAND HOLE 3'x3'x3' – REINFORCED FIBERGLASS WITH CAST IRON FRAME AND COVER. COVER DIAMETER 24" ROUND. PROVIDE PULLING IRONS AND GROUND ROD IN EACH HANDHOLE. GROUND ALL METAL WITH #4 AWG BOND WIRE.

C MH — COMMUNICATION MANHOLE

T MH

P — PRIMARY FEEDER HANDHOLE

SITE PLAN SYMBOLS

T — TRANSFORMER PAD

G — EMERGENCY GENERATOR

E — ELECTRIC MANHOLE

TELECOMMUNICATIONS (MOUNTED 18" AFF)

TELEPHONE OUTLET CABLING BY DIVISION 27

TW — TELEPHONE OUTLET MOUNTED 54"AFF

TP — TELEPHONE OUTLET, PAYPHONE

2 — DATA OUTLET "2" NUMBER DENOTES NUMBER OF JACK IN OUTLET CABLING BY DIVISION 27

NOTE: DOUBLE GANG BACK BOX WITH SINGLE GANG REDUCER, 3/4" CONDUIT AND PULLSTRING STUBBED OUT ABOVE ACCESSIBLE CEILING.

FIRE ALARM SYSTEM

M — MANUAL PULL STATION MOUNTED 48" AFF

M / V — AUDIO/VISUAL ALARM MOUNTED 80" AFF. "M" DENOTES MINI–UNIT

V — VISUAL ONLY UNIT MOUNTED 80" AFF

I — PHOTOELECTRIC SMOKE DETECTOR: "I" DENOTES IONIZATION SMOKE DETECTOR

SS — SINGLE STATION 120V SMOKE DETECTOR

C 190° — 135° FIXED TEMPERATURE HEAT DETECTOR. "190°" INDICATES 190°F FIXED TEMPERATURE. "C" INDICATES HEAT DETECTOR IN CEILING SPACE.

SPRINKLER TAMPER SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUbCONTRACTOR

SPRINKLER WATER FLOW SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.

DH — MAGNETIC DOOR HOLD OPEN DEVICE

FIRE ALARM MASTER BOX

SD — DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBE

RTS — REMOTE TEST STATION FOR DUCT SMOKE DETECTOR WITH NAMEPLATE LABELED ACCORDINGLY

RAI — REMOTE ALARM INDICATOR

FACP — FIRE ALARM CONTROL PANEL

FAA — FIRE ALARM REMOTE ANNUNCIATOR

CM — ADDRESSABLE CONTROL MODULE

MM — ADDRESSABLE MONITOR MODULE

EXTERIOR FIRE ALARM BEACON

D — SMOKE DAMPER

POWER DISTRIBUTION EQUIPMENT

DISTRIBUTION PANEL

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

J — JUNCTION BOX, SIZED PER NEC

2 — MOTOR, "2" DENOTES HORSEPOWER

MAGNETIC MOTOR STARTER WITH ENCLOSURE, MINIMUM SIZE NEMA 1

MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. "P" DENOTES PILOT LIGHT

30/3 — NON–FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH

30/20/3 — FUSED DISCONNECT SWITCH: "30/20/3" DENOTES 30 AMP/3 POLE SWITCH, 20 AMP FUSES

S — SPEED CONTROL. FURNISHED BY OTHERS WIRED BY ELECTRICAL CONTRACTOR

COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED

12 — DRY–TYPE DISTRIBUTION TRANSFORMER: REFER TO TRANSFORMER SCHEDULE FOR RATINGS

ATS — AUTOMATIC TRANSFER SWITCH

T — PAD MOUNTED TRANSFORMER

BRANCH CIRCUIT WIRING NOTES:

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL oE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
5. A GREEN GROUNDING CONDUCTOR SHALL oE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.

HAND HOLE NOTES:

1. LEAVE 10 FEET OF SLACK CABLE FOR EACH FEEDER AND FEEDER DESIGNATIONS.
2. EACH FEEDER SPLICE SHALL BE TYPE WITH REENTABLE WEATHER–PROOF ENCLOSURE AS MANUFACTURED BY "3M" OR APPROVED EQUAL.

SITE NOTES:

a. EXISTING UTILITY LINES INDICATED OR NOTED ON THIS DRAWING ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS.

b. EXISTING LINES OTHER THAN THOSE INDICATED ON THIS DRAWING MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK. HE IS TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

MISCELLANEOUS

JUNCTION BOX WITH FLEXIoLE CONNECTION TO EQUIPMENT

EF — EXHAUST FAN

CP — CONTROL PANEL

PB — PULL BOX

TVH — CABLE TELEVISION OUTLET, WALL MOUNTED

P — PUSHBUTTON AND PLATE, "WP" DENOTES WEATHERPROOF

CLOCK AND HANGER OUTLET

BUZZER/BELL, LOW VOLTAGE

TL — LOW VOLTAGE TRANSFORMER,

S PC — PHOTO–CELL

RP — KEY PAD

SIGN OUTLET

A — LIGHTING PROJECTION AIR TERMINAL

LIGHTING PROTECTION GROUNDING POINT

MUSHROOM TYPE PUSH BUTTON STATION FOR ACTIVATION OF CONTACTOR CONTROLLING CLASSROOM PANEL

HD — ELECTRIC HAND DRYER

SECURITY SYSTEM

PTZ CCTV — CLOSED CIRCUIT SECURITY CAMERA: "PTZ" DENOTES PAN, TILT, ZOOM

PB — PANIC BUTTON

4" SQUARE JUNCTION BOX MOUNTED ABOVE HUNG CEILING WITH 3/4"C STUBBED INTO DOOR FRAME FOR SECURITY SYSTEM MANUFACTURER'S USE

MD — MOTION DETECTOR

CR — CARD READER

DS — DOOR STRIKE

DC — DOOR CONTACT

M — MONITOR

DR — DOOR RELEASE

MECHANICAL EQUIPMENT TAG ABBREVIATIONS

AH 2 — DENOTES EQUIPMENT TYPE / DENOTES UNIT NUMBER

ACC	AIR–COOLED CONDENSER
AH	AIR HANDLER
B	BOILER
CH	CHILLER
CHO4	CLASSROOM HEATER
CUH	CABINET UNIT HEATER
CUV	CLASSROOM UNIT VENTILATOR
EBB	ELECTRIC BASEBOARD
EF	EXHAUST FAN
EH	EXHAUST HOOD
EWH	ELECTRIC WALL HEATER
FC	FAN COIL
HP	HEAT PUMP
MAU	MAKE–UP AIR UNIT
P	PUMP
RTU	ROOF TOP UNIT
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
WH	ELECTRIC WATER HEATER

TOGGLE SWITCHES (MOUNTED 48" AFF)

Soc — SINGLE POLE TOGGLE SWITCH. "o" DENOTES FIXTURE CONTROL. "oc" DENOTES INTEGRAL OCCUPANCY SENSOR.

S3 — THREE WAY TOGGLE SWITCH

S4 — FOUR WAY TOGGLE SWITCH

SK — KEY OPERATED SWITCH

SP — SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT

SD — INCANDESCENT DIMMER SWITCH. 1000 WATT DIMMER MINIMUM

OS PS — CEILING MOUNTED OCCUPANCY SENSOR AND POWER SUPPLY WATT STOPPER C1300 SERIES

ABBREVIATIONS

3R	NEMA 3R RATING
4X	NEMA 4X RATING
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C/B	CIRCUIT BREAKER
C.T.	CURRENT TRANSFORMER
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
DWG	DRAWING
E	WIRED ON EMERGENCY CIRCUIT
EC	ELECTRICAL CONTRACTOR
F.A.	FIRE ALARM
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
KCMIL	ONE THOUSAND CIRCULAR MILS
KVA	KILOVOLT–AMPERES
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
ø	PHASE
P	POLE
PC	PLUMBING CONTRACTOR
PVC	POLYVINYL CHLORIDE
PR	PAIR
ST	SHUNT TRIP
TEF	TELEPHONE ENTRANCE FACILITY
TEL	TELEPHONE
TBB	TELECOMMUNICATION BONDING BACKBONE
TGB	TELEPHONE GROUNDING BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
UG	UNDERGROUND
V	VOLT
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER
ETR	EXISTING TO REMAIN
ETD	EXISTING TO BE DEMOLISHED
ETRL	EXISTING TO BE RELOCATED

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS NUMBER	LAMPS TYPE	INPUT VOLTS	INPUT WATTS	REMARKS	ACCEPTABLE EQUALS
A	2'X2' RECESSED MOUNTED DIRECT/INDIRECT	FOCAL POINT FLU–22–B–240BX–T5–S–277 –G–PS–LB35–WH	2	BX	277	40	CORRIDOR	LIGHTOLIER COLUMBIA
B	2'x4' RECESSED PARABOLIC	LITHONIA 2PM2N–G–2–B–332– 18–LS–277GEB	3	T8	277	32	–	LIGHTOLIER COLUMBIA
B1	2'x2' RECESSED PARABOLIC	LITHONIA 2PM2N–G–B–2U316– 9–LS–277 GEB	2	T8U16	277	31	–	LIGHTOLIER COLUMBIA
C	8"X4' RECESSED FLUORESCENT	PRUDENTIAL P87–2T8–R"X"–BLA–SC–277 –X3B–10THD	2	T8	277	32	TOILET	LIGHTOLIER COLUMBIA
D	3"X4' RECESSED FLUORESCENT	FOCAL POINT FWE–CR–1T5–1C–277–S–F –LB35–WH	1	T5	277	40	CORRIDOR	LIGHTOLIER COLUMBIA
G	PENDENT MOUNTED GYM FIXTURE	LITHONIA #TPGE/320M/PG16GLE/M/480 /GFWG16	1	MH	480	320	GYM COMPLETE WITH WIRE GUARD	DAYBRITE LIGHTOLIER COLUMBIA
GE	SAME AS "G" EXCEPT WITH QUARTZ RESTRIKE	LITHONIA #TPGE/320/PG16GLE/M/480 /QRSTD/GFWG16	1	MH	480	320	GYM COMPLETE WITH WIRE GUARD	DAYBRITE LIGHTOLIER COLUMBIA
			1	Q	120	150		
H	PENDENT MOUNTED 2' X 4' FLUORESCENT FIXTURE	PRUDENTIAL S1–1T8–04–TMW–277–CA96–X3 –10THD	2	T8	277	32	LOBBY MOUNTING HEIGHT TO BE DETERMINED	LIGHTOLIER COLUMBIA
J	WALL MOUNTED INDIRECT FIXTURE PERFURATED FACE	PRUDENTIAL GLOW–CC–1T8–04–CC–CC –277–10THD	1	T8	277	32	WALL SCONCE	LIGHTOLIER COLUMBIA
K	6" RECESSED FLUORESCENT DOWNLIGHT	GOTHAM AF–1/42IRT–6AR–277–WLP	1	TRT	277	42	–	LIGHTOLIER COLUMBIA
L	9" RECESSED FLUORESCENT DOWNLIGHT	GOTHAM LGF–2/26DTT–SRW–TT3 –277–GEB	2	DTT	277	26	–	LIGHTOLIER COLUMBIA
M	PENDENT MOUNTED DECORATIVE FIXTURE	GOTHAM PDF/42TRT–BAR–LD–277–S–S– C–RC120–WLP	1	MH	277	50	MEDIA CENTER	LIGHTOLIER PRESCOLITE
N	DECORATIVE DOWNLIGHT WITH COLORED RING	GOTHAM PDGF–2/32IRT–BAR–XX–277 –WPL	2	TRT	277	32	1st FLOOR – GRN 2nd FLOOR – BLU 3rd FLOOR – TAN	LIGHTOLIER PRESCOLITE
P	PENDENT MOUNTED STACK LIGHT	FOCAL POINT FEVS–CT–2T8–1C–277–S–C48 –LB35–TS–16	2	T8	277	32	LIBRARY MEDIA CENTER	LIGHTOLIER PRESCOLITE
P1	PENDENT MOUNTED STACK LIGHT	FOCAL POINT FEVS–CT–2T8–1C–277–S–C48 –LB35–TS–4	2	T8	277	32	LIBRARY MEDIA CENTER	LIGHTOLIER PRESCOLITE
Q	PENDENT MOUNTED DECORATIVE FIXTURE	FOCAL POINT FWEP–34–WA–G–3BX40–1C –277–S–C48–LB835–TS	3	BX	277	40	–	LIGHTOLIER PRESCOLITE
R	4" DIAMETER DOWNLIGHT –	GOTHAM DLVDWN–MR16–6WB–120	1	MR16 25 DEG	120	50	SHOW CASES	LIGHTOLIER PRESCOLITE
F	2' X 4' FLUSH MOUNTED LENS AND GASKETED	LITHONIA 2SP80332FW–A12125–277–GED –GSKT	3	T8	277	32	GASKETED	LIGHTOLIER COLUMBIA
F1	2' X 2" FLUSH MOUNTED LENS AND GASKETED	LITHONIA 2SP802U31FW–A12125–277 –GED–GSKT	3	UTB	277	31	GASKETED	LIGHTOLIER COLUMBIA
F2	1'X4' FLUSH MOUNTED LENS AND GASKETED	LITHONIA SP0232–FW–A12125–277 –GED–GSKT	2	T8	277	32	GASKETED	LIGHTOLIER COLUMBIA
T	SURFACE MOUNTED STRIPS	LITHONIA C232–277–GEB	2	T8	277	32	–	LIGHTOLIER COLUMBIA
V	FIXTURE ON HVAC UNIT	CANPLAS GTWF15D–GSC	1	INC	120	100	–	LIGHTOLIER COLUMBIA
W	WALL MOUNTED LINEAR FIXTURE	LITE CONTROL WD56N147B–SW–CWM–ELB–277	1	T8	277	–	–	LIGHTOLIER COLUMBIA
Y	STAR WELL WALL MOUNTED	LITHONIA VDC232277–GEB	2	T8	277	32	–	LIGHTOLIER COLUMBIA
Z	2'X4' RECESSED MOUNTED DIRECT/INDIRECT	FOCAL POINT FLU–24–B–2T8–S–277–C–PS –LB35–WH	2	T8	277	32		LIGHTOLIER COLUMBIA
AA	2'x4' RECESSED LENS FIXTURE	LITHONIA 2SP80332–A12125–277–GED	3	T8	277	32	–	–
AA1	2'x4' RECESSED FLUORESCENT FIXTURE	LITHONIA 2SP8F332–A12125–277–GED	3	T8	277	32	–	–
BB	SURFACE FIXTURE W/ ACRYLIC LENS	LITHONIA CA–232–AR–277–GEB	2	T8	277	32	–	–
CC	SURFACE MNTD 2 CIRCUIT TRUNK W/ 8 FIXTURES PER 12' SECTION	LITHONIA TRACK: [L2T8 WH–8' SECTION / L2T4 WH–4' SECTION FIXTURE: LITE–RNDS–PAR–38– WBWH	1	PAR38	120	150	4 FIXTURES ON EACH CIRCUIT. FIXTURE LITHONIA INCLUDE ALL HARDWARE	–
DD	PENDENT MOUNTED DECORATIVE FIXTURE	GOTHOM PDFH–1CCM–BAR–277–HEB– T–S–C–RC12D	1	MH	277	100	COATED ED–17 LAMP MOUNT 12' ABOVE FLOOR	–
FF	EXTERIOR DECORATIVE FIXTURE	LITHONIA WGR2C–70MH–277–DBLBLP1	1	MH	277	70	–	–
EXIT	EXIT SIGN	LITHONIA LES1R277	1	LED	277	–	WITH ARROWS AS INDICATED PROVIDE PROTECTIVE WIRE GUARD IN GYM	LIGHTOLIER COLUMBIA
EXIT	DOUBLE FACED EXIT SIGN	LITHONIA LES2R277	1	LED	277	–	WITH ARROWS AS INDICATED PROVIDE PROTECTIVE WIRE GUARD IN GYM	LIGHTOLIER COLUMBIA
EM LED	EMERGENCY BATTERY UNIT	LITHONIA ELM–DL–277	–	–	–	–	– –	LIGHTOLIER COLUMBIA

SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS TYPE	LAMPS WATTS	VOLTS	REMARKS	ACCEPTABLE EQUALS
SL1A	SINGLE PARKING AREA LUMINAR WITH TYPE 3 DISTRIBUTION ON A 25FT POLE, WITH DARK BRONZE FINISH	LITHONIA KAD–400M–R3–480–SPD04–LP1–SSS–25–4G–DM19–SBC–4–DDB	MH	400	480		
SL2A	TWIN PARKING AREA LUMINAIR WITH TYPE 3 DISTRIBUTION ON A 25FT POLE WITH DARK BRONZE FINISH	LITHONIA 2–KAD–400–R3–480–SPD04–LP1–SSS–25–4G–DM20–BC–4–DDB	MH	400	480		
SL3A	SINGLE PARKING AREA LUMINAR WITH TYPE 4 DISTRIBUTION ON A 25FT POLE, WITH DARK BRONZE FINISH	LITHONIA KAD–400M–R4–480V–SPD04–LP1–SSS–25–4G–DM19–SBC4–DDB	MH	400	480		

SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS TYPE	LAMPS WATTS	VOLTS	REMARKS	ACCEPTABLE EQUALS
SL1	SINGLE PARKING AREA LUMINAR WITH TYPE 3 DISTRIBUTION ON A 25FT POLE, WITH DARK BRONZE FINISH	LITHONIA KAD–400M–R3–280–SPD04–LP1–SSS–25–4G–DM19–SBC–4–DDB	MH	400	280		
SL2	TWIN PARKING AREA LUMINAR WITH TYPE 3 DISTRIBUTION ON A 25FT POLE WITH DARK BRONZE FINISH	LITHONIA 2–KAD–400–R3–280–SPD04–LP1–SSS–25–4G–DM20–BC–4–DDB	MH	400	280		
SL3	SINGLE PARKING AREA LUMINAR WITH TYPE 4 DISTRIBUTION ON A 25FT POLE, WITH DARK BRONZE FINISH	LITHONIA KAD–400M–R4–280V–SPD04–LP1–SSS–25–4G–DM19–SBC4–DDB	MH	400	280		

SITE LIGHTING NOTES:

1. ALL SITE LIGHTING CONDUITS SHALL BE INSTALLED MINIMUM 36" BELOW FINISHED GRADE. CONDUITS IN NON PAVED AREAS SHALL BE SCHEDULE 40 PVC WITH 6" COMPACT SAND ALL SIDES. CONDUITS UNDER PAVED SURFACES, SIDEWALKS, DRIVEWAYS, AND ROADS SHALL BE EITHER GALVANIZED RIGID STEEL OR SCHEDULE 40 PVC WITH 3" CONCRETE ALL SIDES. E.C. SHALL COORDINATE METHOD WITH G.C. DURING BIDDING
2. POLE BASES SHALL BE INSTALLED 3 FT. BEHIND CURB FOR NON–PAVED AREAS
3. PROVIDE IN–LINE FUSE AND FUSE HOLDER WITHIN BASE OF EACH SITE LIGHTING FIXTURES. FIXTURES ON TWIN POLES SHALL BE INDIVIDUALLY FUSED.

WIRING MATERIALS AND COLOR CODING

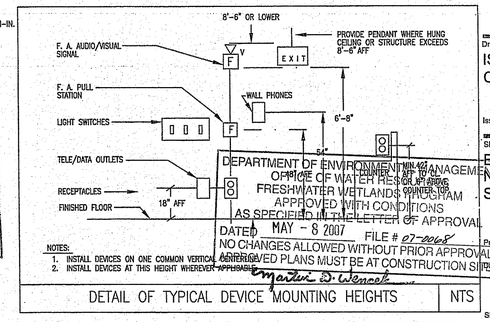
1. CONDUCTORS FOR SITE LIGHTING SHALL BE COPPER WITH 600 VOLT INSULATION, TYPE XHHW.
2. PHASING AND COLOR CODING
   a. THE INSULATION OR COVERING OF EACH WIRE OR CABLE SHALL BE COLOR CODED SO AS TO PROVIDE FOR CIRCUIT IDENTIFICATION AS SPECIFIED BELOW.

120/208V CIRCUITS	277/480V CIRCUITS	PHASE
BLACK	BROWN	A
RED	ORANGE	B
BLUE	YELLOW	C
WHITE	GRAY	NEUTRAL
GREEN	GREEN WITH YELLOW TRACER	GROUND

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

LIGHTING FIXTURE NOTES:

1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH–IN.
4. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE.
5. ALL FLUORESCENT LAMPS SHALL BE 3500° K



NOTES:
1. INSTALL DEVICES ON ONE COMMON VERTICAL CENTERLINE.
2. INSTALL DEVICES AT THIS HEIGHT WHEREVER APPLICABLE.

DETAIL OF TYPICAL DEVICE MOUNTING HEIGHTS | NTS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY – 8 2007 FILE # 07–0068
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

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Certification

MARC R. PLANTE — No. 8237 — REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

Drawn by BER
Checked by JWF
Revised on

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

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Issued On 09 FEB 2007

Sheet Contents
ELECTRICAL LEGEND NOTES, & FIXTURE SCHEDULE

Project Number. 5575
Drawing No. E000
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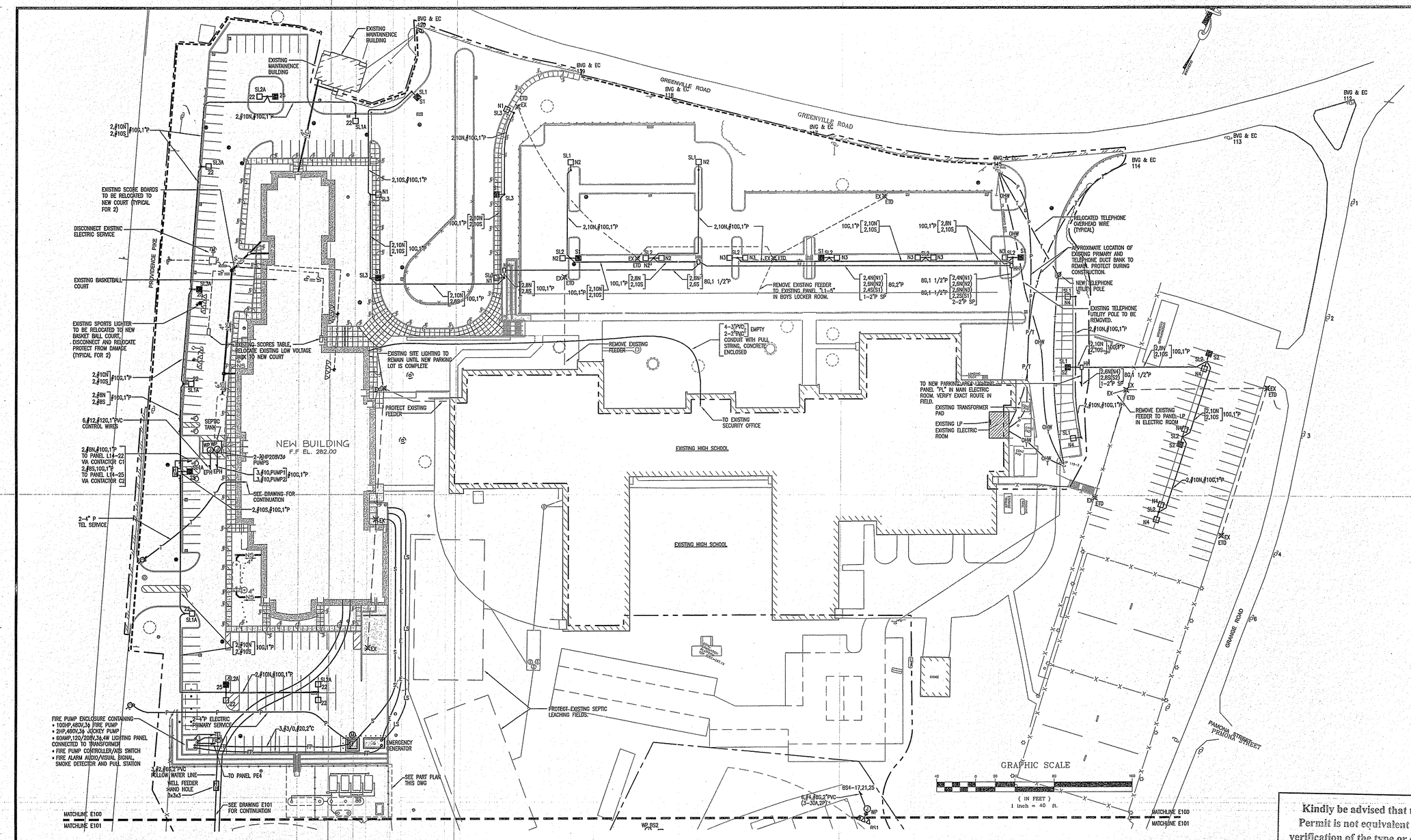
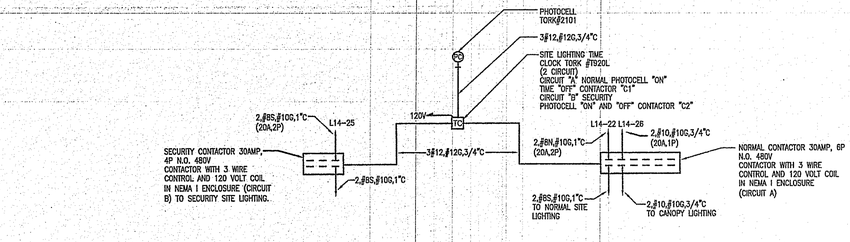
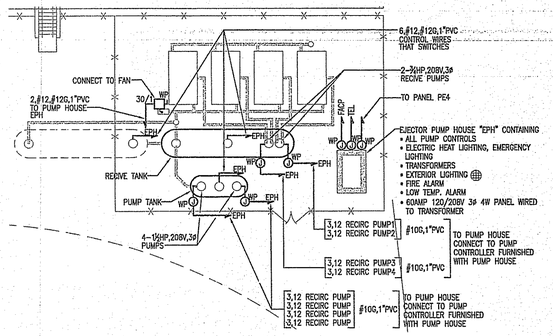
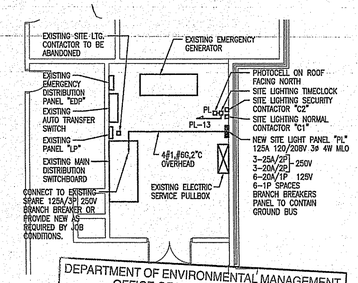




SITE LIGHTING CONTROL

NOT TO SCALE.





ELECTRIC ROOM PLAN (HIGH SCHOOL)

SCALE: 1/8" = 1'-0"

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DATED MAY - 8 2017 FILE # 07-0068
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Certification

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Project

NORTH SMITHFIELD MIDDLE SCHOOL
1850 PROVIDENCE PIKE
NORTH SMITHFIELD, RI 02896

PROVIDENCE PIKE AND GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

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ELECTRICAL SITE PLAN

Project Number. 5575

Drawing No. E100

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MATCHLINE E100
MATCHLINE E101

SEE DRAWING E100 FOR CONTINUATION

PROVIDENCE PIKE

GRANGE ROAD

EX. 1555 FED

ALTERNATE #4

ALTERNATE 3A

3-2" LINES

BASEBALL / SOCCER LIGHTING CONTROLLER

PANEL BS4

TO TRANSFORMER PAD

WELL FEEDER HANDHOLE 3x3x3

RELOCATED SCOREBOARD

SCORES DESK (TYPICAL FOR 2) INCLUDES REMOTE CONTROL AND DUPLEX RECEPTACLE

SCORES DESK

PANEL BK4

FOOTBALL LIGHTING CONTROLLER

POWER PANEL FB4

DEMO

EXISTING SEATING TO BE RELOCATED BY OTHERS

RELOCATED BLEACHERS

CONNECT TO 3HP 208V WELL AS REQUIRED BY JOB CONDITIONS

3HP 208V 3Ø WELL BY OTHERS

3-#2,#6G,2"PVC WELL FEEDER FOLLOW WATER LINE

2-1"PVC

2,#10,#10G,1"PVC

2,#10N,#10G,1"P

BK-11 NORTH

BK-13 SECURITY

TO TRANSFORMER PAD

4,#6,#10G,1"PVC (2-30A,2P)

6,#4,#6G,2"PVC (3-30A,2P)

4,#6,#6G,1 1/2"PVC (2-30A,2P)

2,#6,#10G,1"pvc

6,#6,#10G,1 1/2"PVC (3,30A,2P)

4,#6,#6G,1 1/2"PVC (2-30A,2P)

BS4-17,21,25

BS4-10,14

BS4-2,6

BS4-1,5

BS4-9,13

BS4-16,22,26

FB4-14,18

FB4-25,29,33

FB4-28,30,34

FB4-1,5,9

FB4-13,17,21

WP BS2

WP BS1

WP FB1

WP FB2

WP FB4

WP BK2

WP BK4

GFI

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

BASEBALL / SOCCER — LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS: NUMBER	LAMPS: TYPE	LAMPS: VOLTS	LAMPS: WATTS	REMARKS
BS1	70 FT POLE WITH 2–5 FIX CROSS ARM 1–3 FIX CROSS ARM AND 13–1500W FIXTURE	LITHONIA SPRTS–70–HTD5–MOD–2–CR51–CR3–GALV, 3–TSP–1500M–HD24W– 1–TSP–1500M–HD24M– 9–TSP–1500M–HD24N	1	MH	480	1500W	FUSES LOCATED IN POLE BASE
BS2	70 FT POLE WITH 2–5 FIX CROSS ARM 10–1500W FIXTURE	LITHONIA SPRTS–70–HT04–2–CR5–GALV, 1–TSP–1500M–HD24W– 2–TSP–1500M–HD24M– 7–TSP–1500M–HD24N	1	MH	480	1500W	FUSES LOCATED IN POLE BASE

FOOTBALL — LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS: NUMBER	LAMPS: TYPE	LAMPS: VOLTS	LAMPS: WATTS	REMARKS
FB1	70 FT POLE WITH 2–5 FIX CROSS ARM AND 15–1500W FIXTURE	LITHONIA SPRTS–70–HT05–MOD–3–CR5–GALV, 12–TPS–1500M–HD24N– 3–TPS–1500M–HD24M	1	MH	480	1500W	FUSES LOCATED AT BASE OF POLE
FB2	70 FT POLE WITH 2–5 FIX CROSS ARM 1–3 FIX CROSS ARM AND 13–1500W FIXTURE	LITHONIA SPRTS–70–HT05–MOD–2–CR5/CR3–GALV, 2–TPS–1500M–HD24W– 4–TPS–1500M–HD24M– 7–TPS–1500M–HD24N	1	MH	480	1500W	FUSES LOCATED AT BASE OF POLE

BASKETBALL — LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS: NUMBER	LAMPS: TYPE	LAMPS: VOLTS	LAMPS: WATTS	REMARKS
BK1	40 FT POLE WITH CROSS ARM AND 4–1000W FIXTURE	LITHONIA SPRTS–40–HT02–GR4–GALV AND 4–TSP–1000M–HD24W	1	MH	480	1000	–

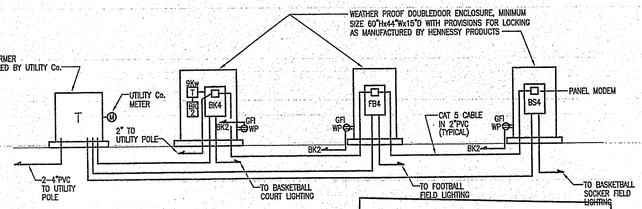
PANELBOARD SCHEDULE

PANEL DESIGNATION	VOLTS	PHASE	WIRES	MAINS: MLO; MAIN LUGS ONLY MCB: MAIN CKT. BKR. BUS SIZE	OVERCURRENT DEVICE: FRAME AMPS	OVERCURRENT DEVICE: TRIP AMPS	BRANCH DEVICES: BRK. POLES	BREAKER AMPS: 15	20	25	30	40	50	60	70	TOTAL POLES*	MOUNTING SURFACE OR FLUSH	SERVICE ENTRANCE	GROUND BUS	ADDITIONAL BRANCH C.B.'S	FEEDER	REMARKS
BK4	277/480	3	4	100	100	100	1	–								24	S	✓	–	–		SEE NOTE 1 & 2
							2	6														
							3															
FB4	277/480	3	4	400	400	300	1	–								42	S	✓	–	–		SEE NOTE 1 & 2
							2				20											
							3															
BS4	277/480	3	4	225	225	225	1	–								40	S	✓	–	–		SEE NOTE 1 & 2
							2					16										
							3															
BK2	100/208	3	4	60	60	40	1	9								12	S	✓	–	4,#6,#10G,1"C	–	
							2	–														
							3	–														

* INCLUDE SPACES

ATHELETIC FIELD PANEL NOTES

1. PANELS "BK4","FB4" AND "BS4" SHALL BE MANUFACTURED BY "LCD" SMARK BREAKER PANEL GD 2400 SERVICES. THE 20A,2P,480V AND 30A,2P,480V BRANCH BREAKERS SHALL BE SMART BREAKERS (SOLENOID BREAKER) ALL OTHER BREAKERS SHALL BE CONVENTIONAL TYPE.
2. THE PANELS SHALL BE SUPPLIED WITH DTC MOD (CLOCK AND MODEM) FOR MODEM INTERFACE.
3. THE PANELS SHALL BE LCD – GR 2400 SBP–XX–XX–MB–277/480–SM–DTC MOD "XX" DENOTES – SEE PANEL SCHEDULE FOR NUMBER OF CIRCUIT BREAKERS AND MAIN CIRCUIT BREAKER AMPACITY.



ATHELETIC FIELD RISER DIAGRAM
N.T.S.

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Engineer D. Wenscel

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Project Number. 5575

Drawing No. E101

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