

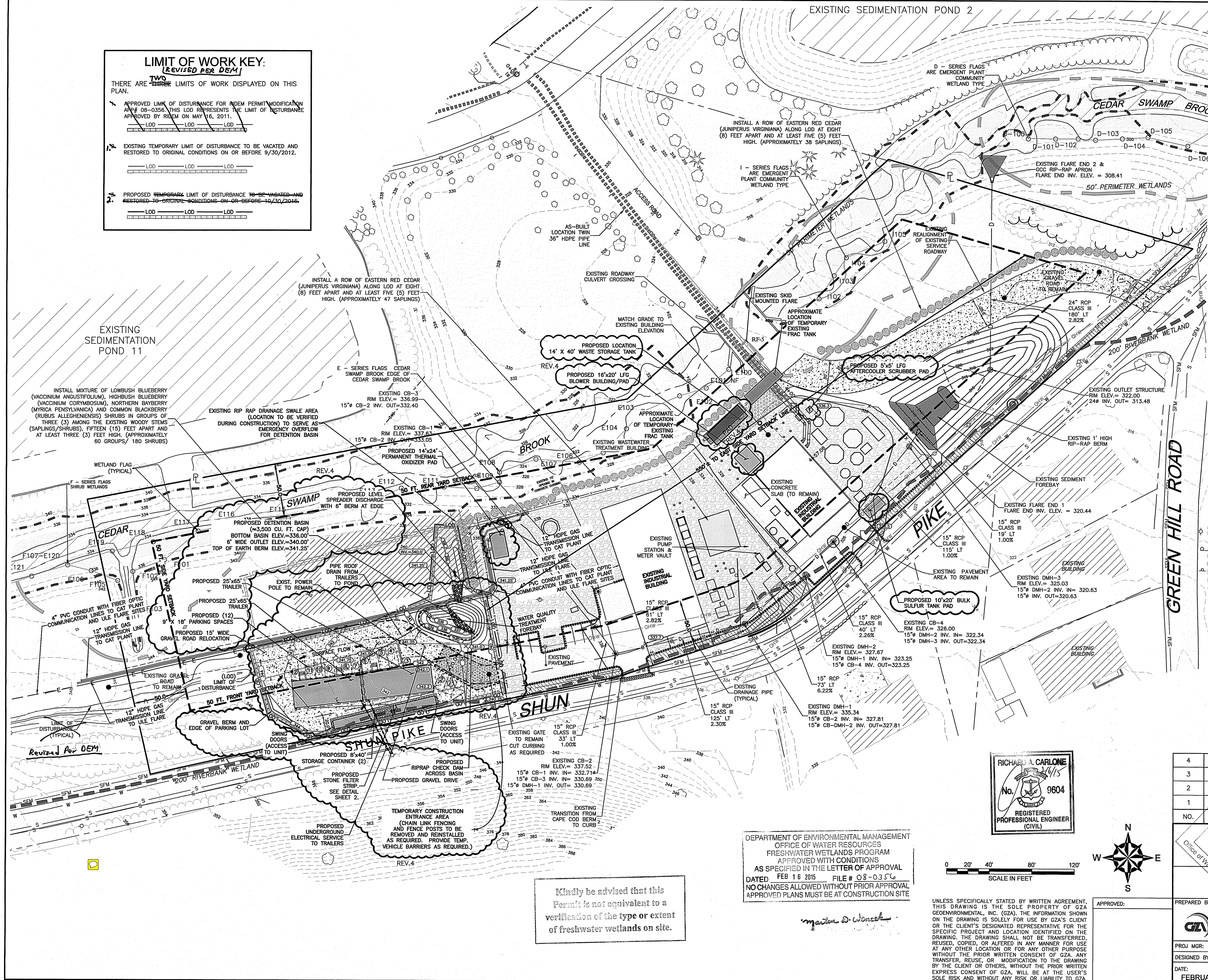
LIMIT OF WORK KEY:
 (REVISED PER DEM)

THERE ARE TWO LIMITS OF WORK DISPLAYED ON THIS PLAN.

APPROVED LIMIT OF DISTURBANCE FOR RIDEM PERMIT MODIFICATION APP# 08-0356. THIS LOD REPRESENTS THE LIMIT OF DISTURBANCE APPROVED BY RIDEM ON MAY 16, 2011.

EXISTING TEMPORARY LIMIT OF DISTURBANCE TO BE VACATED AND RESTORED TO ORIGINAL CONDITIONS ON OR BEFORE 9/30/2012.

PROPOSED TEMPORARY LIMIT OF DISTURBANCE TO BE VACATED AND RESTORED TO ORIGINAL CONDITIONS ON OR BEFORE 10/30/2016.

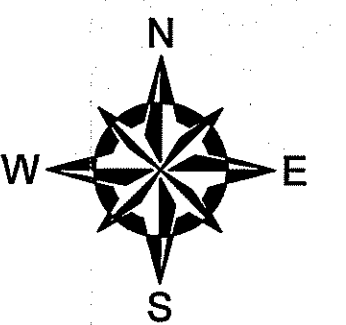


- LEGEND:**
- PROPOSED GRADING
 - ⊙ EXISTING CATCH BASIN
 - ⊕ EXISTING DRAINAGE MANHOLE
 - ⊠ EXISTING FENCE END
 - EXISTING TREE LINE
 - EXISTING TREE LINE
 - EXISTING CONTOURS
 - FLAGGED WETLAND LINE
 - 200' RIVERBANK WETLAND
 - 50' PERIMETER WETLAND
 - ⊙ EXISTING EVERGREEN TREES
 - ⊙ EXISTING GRAVEL AREA
 - EXISTING ABUTTER LINE
 - EXISTING FENCE
 - EXISTING WALLS
 - ⊙ EXISTING IMPERVIOUS AREA
 - ⊙ EXISTING CRUSHED STONE/GRAVEL AREA
 - ⊙ AREA DEPICTS "CREATED RIVER BANK WETLAND AREA" IDENTIFIED AS A CONDITION OF APPROVAL OF RIDEM WETLAND APPLICATION NO. 01-0289 (24 JANUARY 2003)
 - APPROXIMATE 100-YEAR FLOOD PLAIN
 - ⊙ REVISION CLOUD
 - ⊙ CONCRETE CURBING
 - ⊙ EXISTING SPOT GRADE
 - ⊙ EXISTING SPOT GRADE
 - ⊙ EXISTING LANDSCAPE AREA
 - ⊙ EXISTING GAS MAIN

- NOTES:**
- ALL DOWN SPOUTS ASSOCIATED WITH BUILDING WILL BE PIPED DIRECTLY TO STORMWATER MANAGEMENT SYSTEM.
 - BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
 - LOCATION OF EXISTING WASTE WATER TREATMENT BUILDING AND ASSOCIATED PUMP STATION AND METER VAULT ARE APPROXIMATE AND ARE BASED ON THE FIGURE TITLED "WTP AND PUMP STATION SITE PLAN" PREPARED BY STANTEC, DATED NOVEMBER 2012.
- STRUCTURAL DRAWINGS**
- 1529-001 SITE LAYOUT-C16.DWG, TITLED "PHASE VI (FINISH PRI GR)-1-31-07.DWG", PROVIDED BY DIPRETE ENGINEERING TRANSMITTED TO GZA ON 01/28/2011.
- CIVIL DRAWINGS**
- 1529-001 MAPPING FROM RIRRC, PROVIDED BY DIPRETE ENGINEERING TRANSMITTED TO GZA ON 01/24/2011.
 - 1529-001 TOPO FROM RIRRC, PROVIDED BY DIPRETE ENGINEERING TRANSMITTED TO GZA ON 01/24/2011.
 - ACAD-1529-001 PROPERTY LINE, TITLE "ACAD-1529-001 PROPERTY LINE", PREPARED BY DIPRETE ENGINEERING TRANSMITTED TO GZA ON 8/13/2010.
- WETLAND FLAGS DRAWINGS**
- WETLAND FLAGS, 08053FIELD26JUNE08.DWG, TITLE "WETLAND FLAGS, 08053FIELD26JUNE08.DWG", PREPARED BY ECOTONES, INC. TRANSMITTED TO GZA ON 06/27/2008.
 - THE LOCATIONS OF THE EXISTING STRUCTURES ON THE EXISTING SITE WERE PROVIDED BY OTHERS AS INDICATED IN NOTE 1 AND HAVE NOT BEEN VERIFIED BY GZA.
 - 100-YEAR FLOOD PLAIN FROM A PDF TITLED "CONSTRUCTION OF CEDAR SWAMP BROOK RELOCATION FOR PHASE V LANDFILL-CEDAR SWAMP BROOK PROFILE" BY PARE ENGINEERING TRANSMITTED TO GZA ON SEPTEMBER 29, 2009.

RICHARD A. CARLONE
 No. 9604
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB 16 2015 FILE # 08-0356
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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

NO.	ISSUE/DESCRIPTION	BY	DATE
4	EXISTING CONCRETE PADS / TRAILER LOCATIONS	RAC	08/20/14
3	EXISTING CONCRETE PADS / TRAILERS	GRB	05/30/14
2	EXISTING ADDITIONAL STRUCTURES	CRD	12/20/12
1	EXISTING WASTEWATER TREATMENT BUILDING	CRD	07/25/12

RHODE ISLAND RESOURCE RECOVERY CORPORATION
 CENTRAL LANDFILL
 JOHNSTON, RHODE ISLAND

Office of Water Resources
 FEB - 6 2015

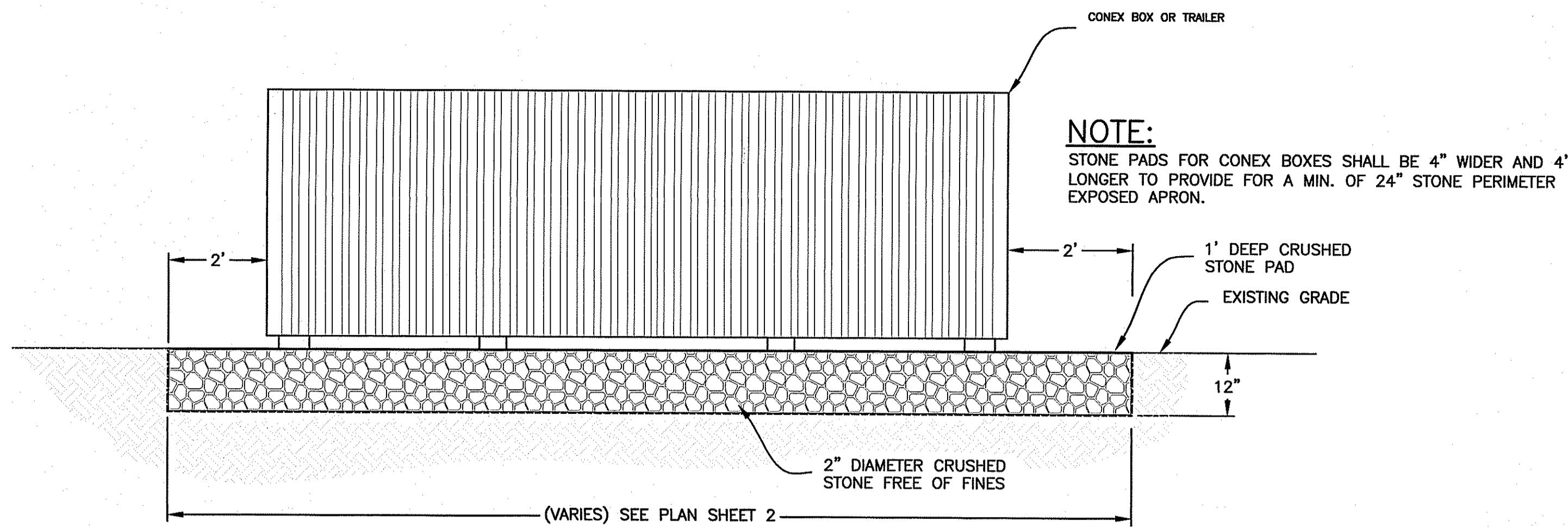
WETLAND PERMIT MODIFICATION

PROJ MGR:	RAC	REVIEWED BY:	EAS	CHECKED BY:	IR	FIGURE
DESIGNED BY:	RAC	DRAWN BY:	CRD/DL	SCALE:	(1"=40')	1
DATE:	FEBRUARY 2015	PROJECT NO:	33928.15	REVISION NO:	0	

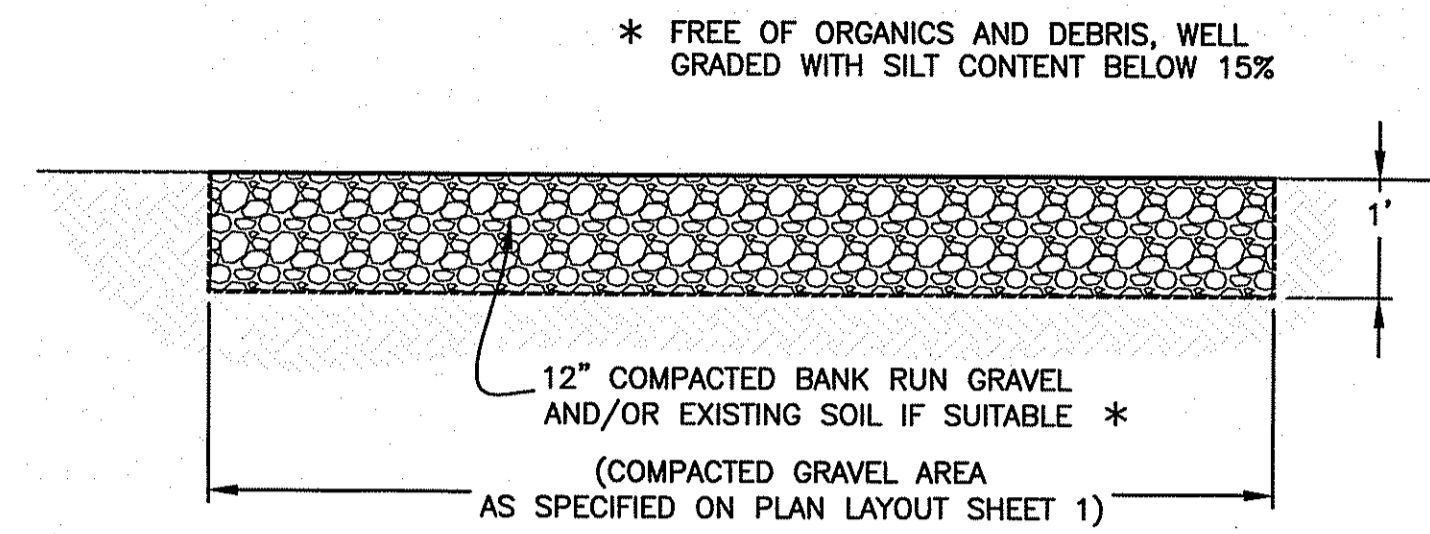
PREPARED BY: **GZA GeoEnvironmental, Inc. Engineers and Scientists**
 530 BROADWAY
 PROVIDENCE, RHODE ISLAND 02909
 (401) 421-4140

PREPARED FOR: **RHODE ISLAND RESOURCE RECOVERY CORPORATION**
 CENTRAL LANDFILL JOHNSTON, RHODE ISLAND

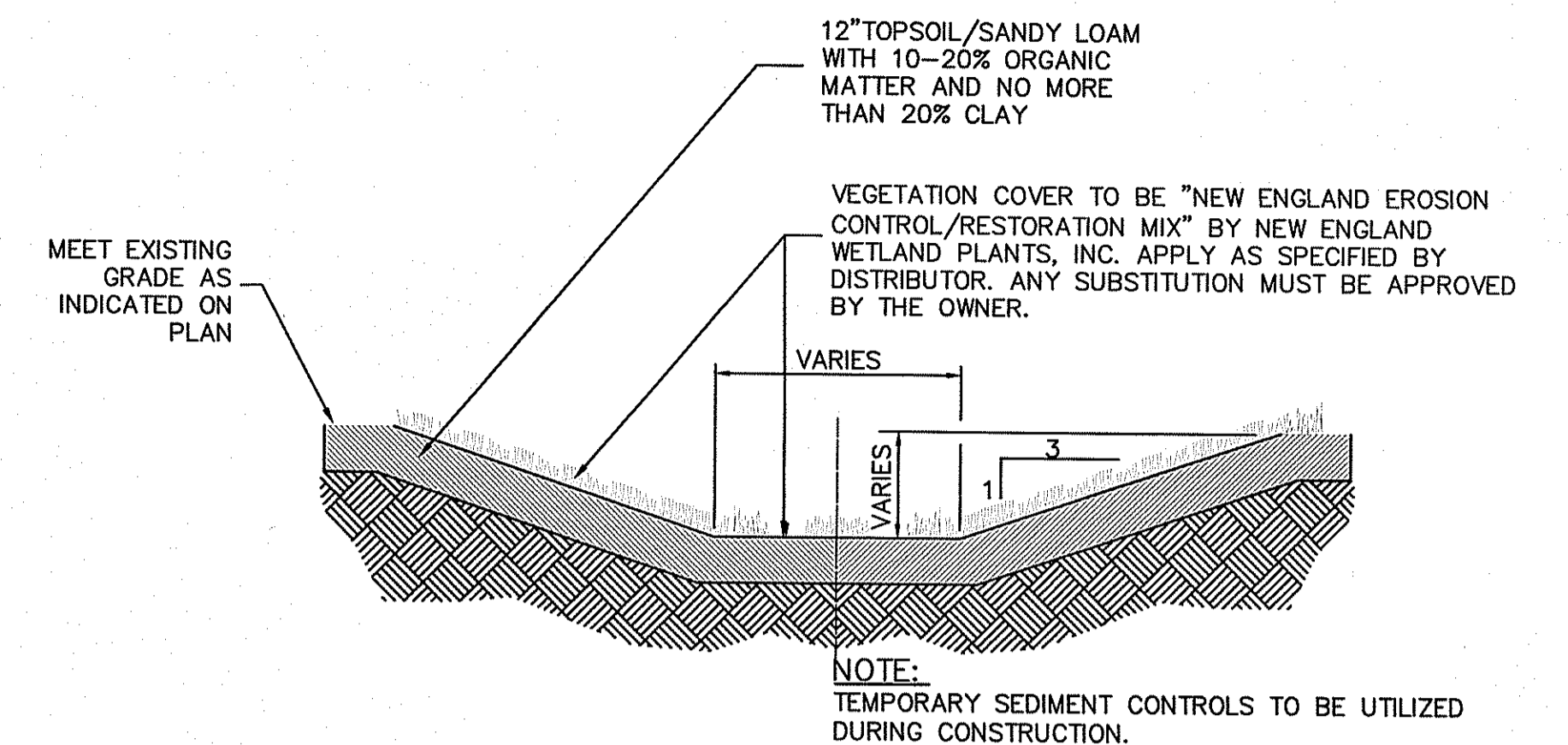
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.



12" CRUSHED STONE PAD DETAIL
NOT TO SCALE

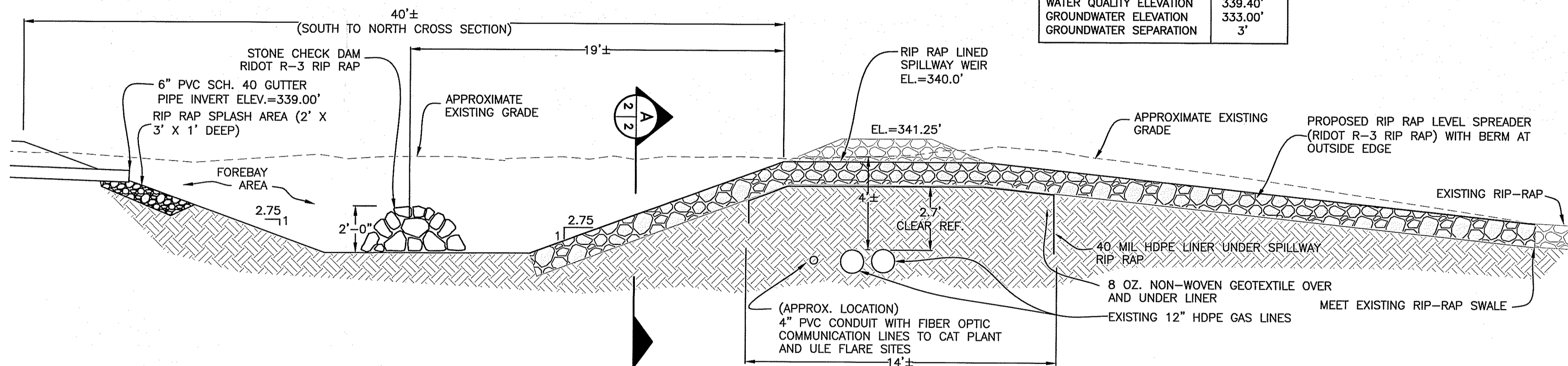


GRAVEL ROAD/PARKING AREA DETAIL
NOT TO SCALE

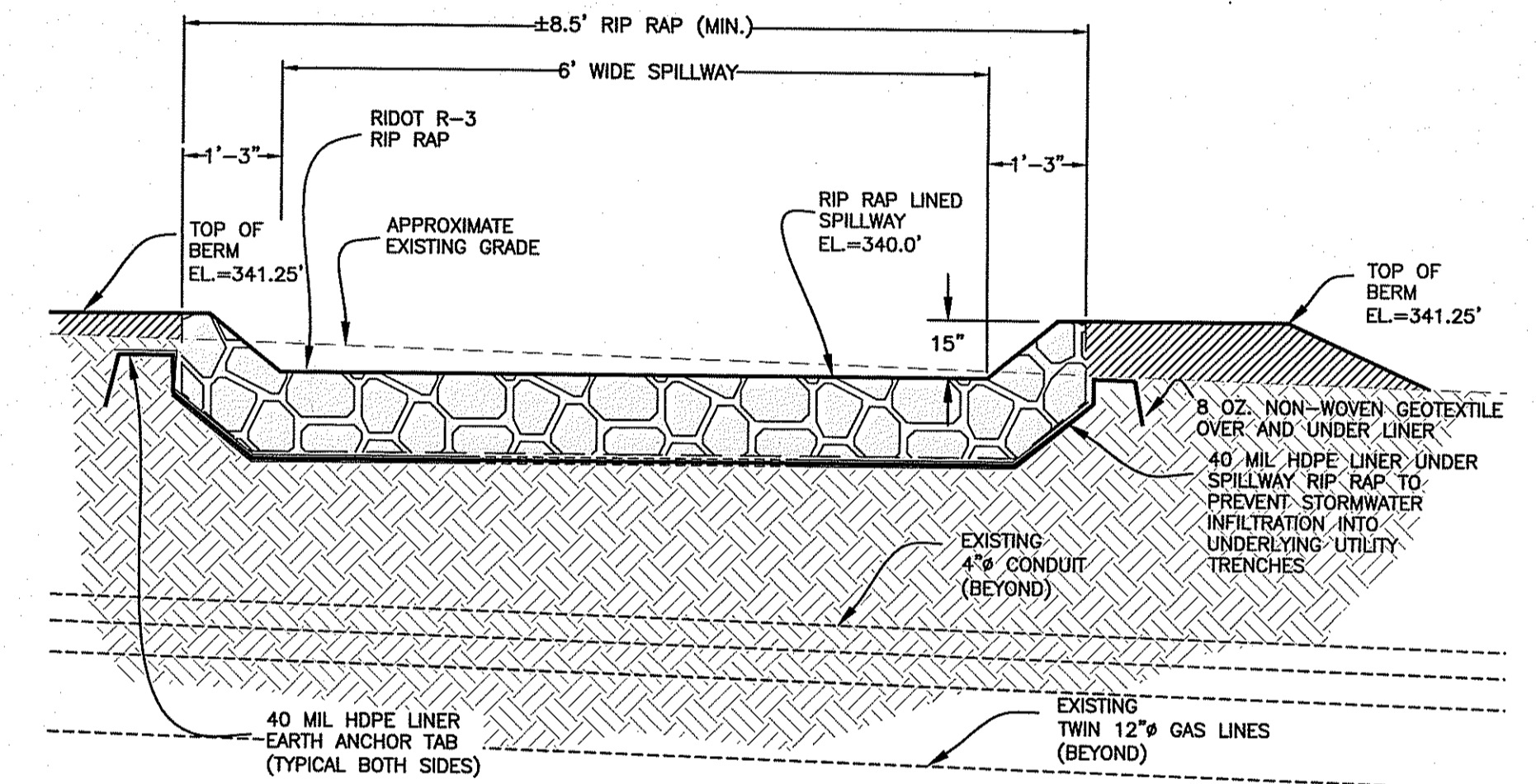


TYPICAL GRASS BASIN DETAIL
NOT TO SCALE

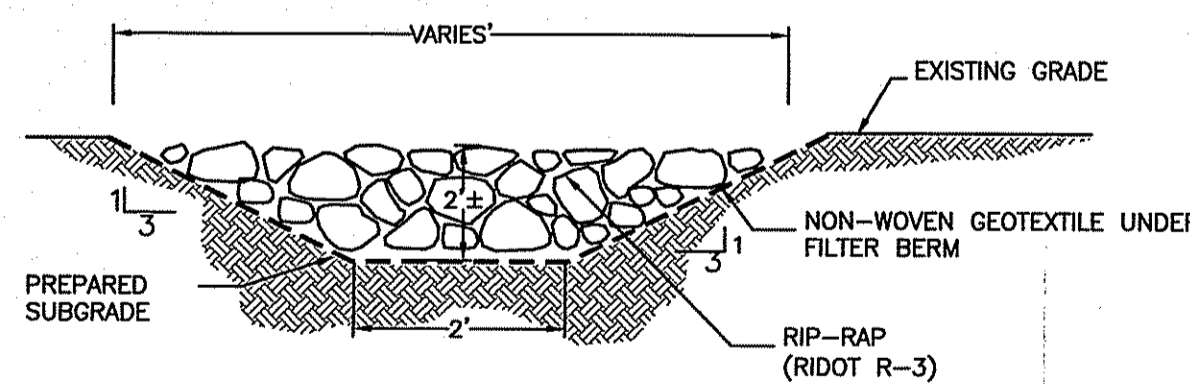
DESCRIPTION	ELEVATION
TOP OF POND	341.25'
BOTTOM OF POND	336.00'
100 YEAR STORM ELEVATION	340.03'
25 YEAR STORM ELEVATION	339.56'
10 YEAR STORM ELEVATION	339.21'
WATER QUALITY ELEVATION	339.40'
GROUNDWATER ELEVATION	333.00'
GROUNDWATER SEPARATION	3'



INFILTRATION POND OUTLET WEIR DETAIL/POND CROSS SECTION
NOT TO SCALE

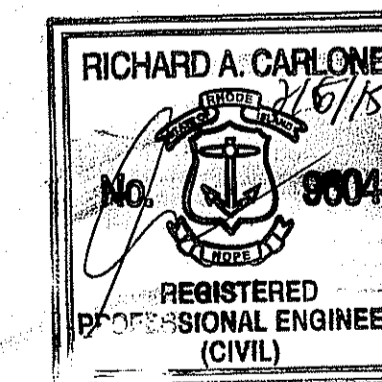


SECTION A (FRONT VIEW RIP RAP OUTLET)
NOT TO SCALE



STONE CHECK DETAIL
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 FEB 16 2015 FILE # 08-0356
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



NO.	ISSUE/DESCRIPTION	BY	DATE
4	PROP. CONC. PADS / GRAVEL PARKING / TRAILER LOC.	RAC	09/12/14
3	EXISTING CONCRETE PADS / TRAILERS	GRB	05/30/14
2	EXISTING ADDITIONAL STRUCTURES	CRD	12/20/12
1	EXISTING WASTEWATER TREATMENT BUILDING	CRD	07/25/12

RHODE ISLAND RESOURCE RECOVERY CORPORATION
CENTRAL LANDFILL
JOHNSTON, RHODE ISLAND

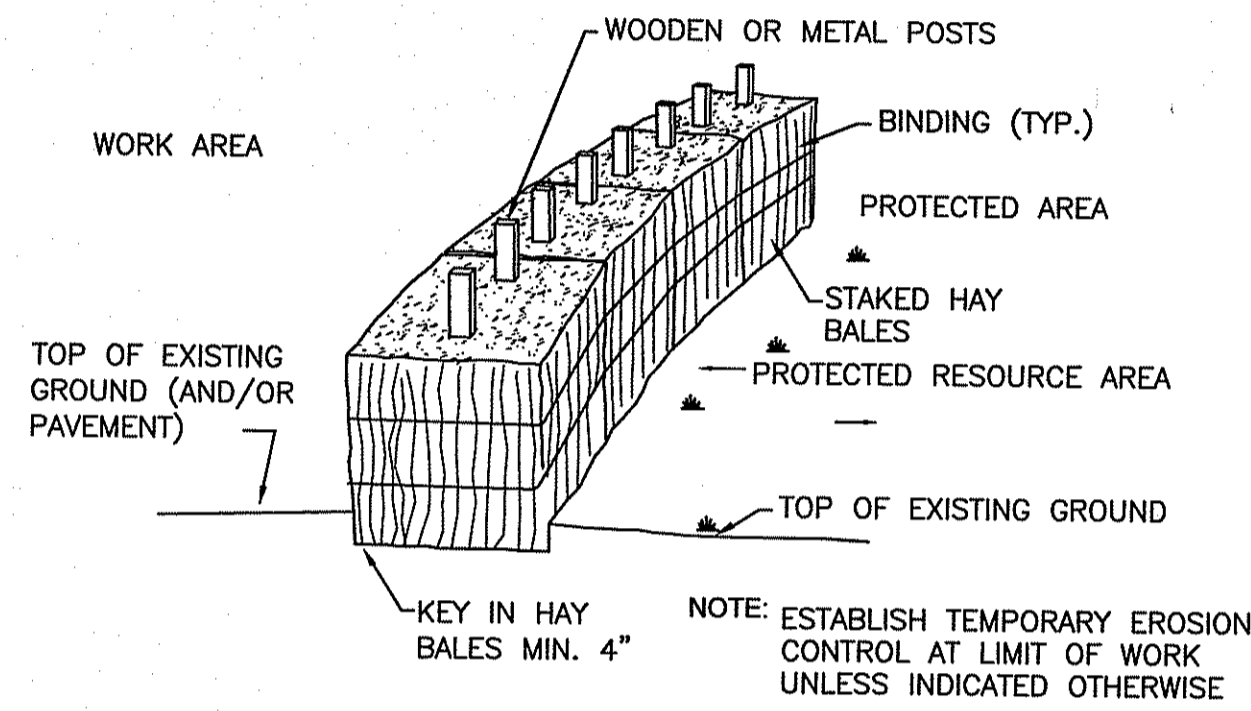
WETLAND PERMIT MODIFICATION DETAILS

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

APPROVED:	PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 451-1440	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
DESIGNED BY: SMA	REVIEWED BY: EAS	CHECKED BY: TRG
DATE: FEBRUARY 2015	DRAWN BY: CRB	SCALE: AS NOTED
PROJECT NO. 33928.15	REVISION NO. 0	FIGURE 2
SHEET NO. 2 of 3		

CONSTRUCTION SPECIFICATIONS:

- BALES SHALL BE PLACED WHERE SPECIFIED ON DRAWINGS IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO WOODEN STAKES DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER.
- IN EXISTING PAVEMENT AREAS, THE CONTRACTOR SHALL SAWCUT AND REMOVE PAVEMENT AS NECESSARY TO INSTALL HAYBALES AND SILTATION FENCE AS SHOWN (i.e., PAVEMENT SHALL BE REMOVED TO ACCOMMODATE TOEING-IN OF HAYBALES AND SILTATION FENCE).
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.



HAY BALE DETAIL
N.T.S.

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL.
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE A LAYER OF TOP SOIL AND SEED.
- IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING AND PRIOR TO ROUGH GRADING, TEMPORARY HAY BALES OR SILTATION FENCES AND BALED HAY EROSION CHECKS SHALL BE PLACED AT THE LIMITS OF CONSTRUCTION SHOWN ON PLAN AND ADDITIONAL AREAS IF REQUIRED.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED AND MAINTAINED ON A REGULAR BASIS DURING CONSTRUCTION, AND PROMPTLY FOLLOWING STORMS OR PERIODS OF RAINFALL.

EROSION AND SOIL STABILIZATION PROGRAM:

- TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, FIBER MULCH, OR PROTECTIVE COVERS SUCH AS FABRIC MATS.
- ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
- TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL, STONES, ROOTS, LUMPS, TREE LIMBS, TRASH OR DEBRIS AND SHALL CONFORM WITH RIDOT STANDARD SPECIFICATIONS.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS OF APPLICATION WITH APPROPRIATE INOCULUM FOR EACH VARIETY. LIME AND FERTILIZER SHALL BE APPLIED TO UPGRADE EXISTING CONDITIONS AS NECESSARY. THE GRASS SEED SHALL CONFORM TO RIDOT SPECIFICATIONS AND BE PLANTED ACCORDING TO RIDOT STANDARD SPECIFICATIONS 1.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR OF PLANTING.
- ALL FILL SHALL BE CLEAN AND THOROUGHLY COMPACTED UPON PLACEMENT IN CONFORMANCE WITH RIDOT STANDARD SPECIFICATIONS.
- SLOPES SHALL NOT REMAIN EXPOSED FOR MORE THAN 15 DAYS. SLOPES NOT PROTECTED BY SEEDING PRIOR TO OCTOBER 15TH SHALL BE PROTECTED USING OTHER TEMPORARY MEANS SUCH AS HAY, STRAW, FIBER MULCH, OR PROTECTIVE MATS, OR BURLAP, OR FIBERGLASS NETTING AS DIRECTED BY THE ENGINEER. THESE TEMPORARILY STABILIZED SLOPES SHALL BE SEEDDED UPON COMMENCEMENT OF THE NEXT PLANTING SEASON.
- HAY AND STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2,000 POUNDS PER ACRE.

SEDIMENTATION CONTROL PROGRAM:

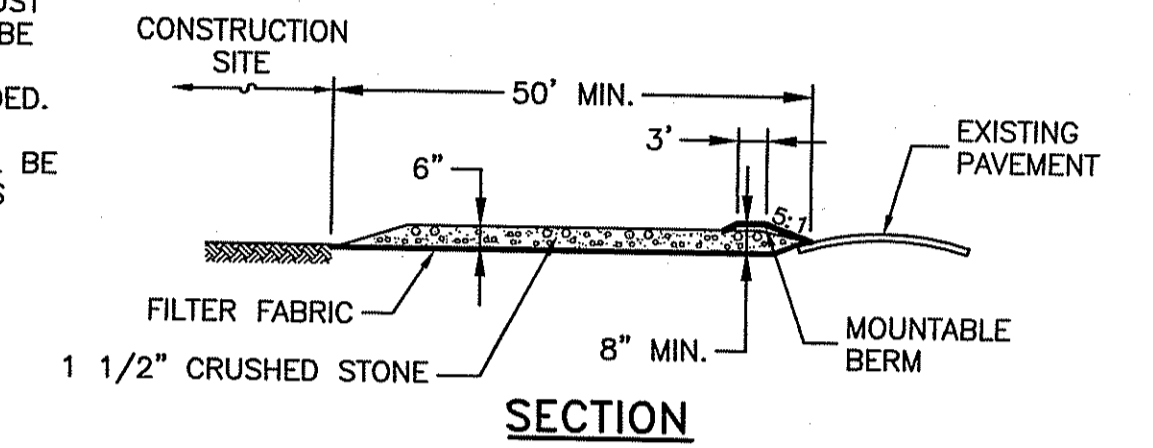
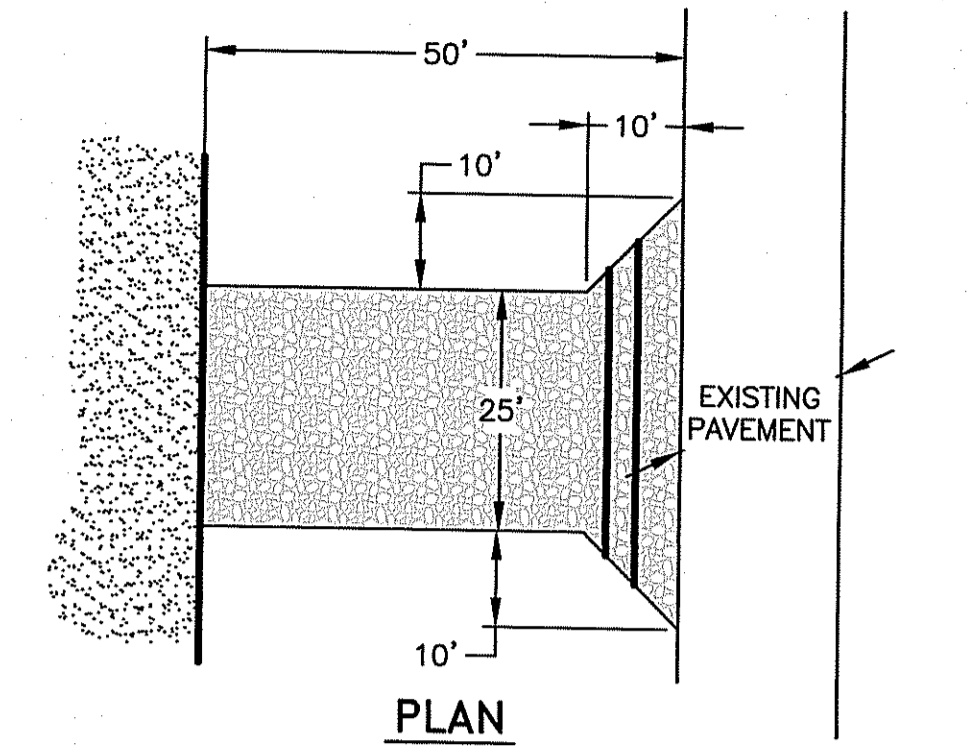
- TEMPORARY HAY BALES OR SILTATION FENCES ARE TO BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS. IN ADDITION TO THE LINE OF BALES AT THE LIMIT OF CONSTRUCTION, TEMPORARY BARRIERS SHALL BE CONSTRUCTED AT THE TOE OF ALL DISTURBED (CUT OR FILL) SLOPES UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED.
- CARE SHALL BE TAKEN NOT TO PLACE REMOVED SEDIMENTS WITHIN THE PATH OF THE EXISTING, NEWLY CREATED, OR EXISTING AREAS THAT ARE OR MAY BE SUBJECTED TO STORMWATER FLOW.
- ALL DISTURBED AREAS THAT ARE SUBJECT TO EROSION, EITHER NEWLY FILLED, OR EXCAVATED ARE TO BE PROTECTED. ACCEPTABLE METHODS OF PROTECTION ARE STONE RIP RAP OR SEEDING WITH FIBER MULCH PROTECTION. ANY CULVERTS OR DRAINAGE SWALES DISCHARGING TO A WATERWAY OR AREA SUBJECT TO STORM FLOWAGE SHALL BE PROTECTED WITH A RIP RAP SPLASH PAD.
- BALED HAY CHECK DAMS ARE TO BE PLACED AROUND EXISTING AND NEWLY CONSTRUCTED CATCH BASINS AND MAINTAINED UNTIL EITHER SOIL STABILIZATION IS SATISFACTORY OR PAVING IS COMPLETED.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- ADDITIONAL SEDIMENT CONTROL MEASURES SHALL BE PLACED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, LOCAL OR STATE ENVIRONMENTAL OFFICIAL.

SLOPE STABILIZATION AND VEGETATION:

- THE REMOVAL OF EXISTING VEGETATION IN THE SITE SHALL BE MINIMIZED.
- A LINE OF STAKED HAY BALES AND SILTATION FENCE SHALL BE PLACED AT THE TOE OF ALL DISTURBED SLOPES AND MAINTAINED AS A SEDIMENT BARRIER UNTIL THE SLOPES ARE STABILIZED WITH GRASS.
- VEGETATION REMOVED MAY BE SHREDDED AND CHIPPED ON SITE FOR USE AS MULCH, OR IT MAY BE REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
- DISTURBED AREAS SHALL BE RESEEDDED WITH A CONSERVATION SEED MIX.

STABILIZED CONSTRUCTION ENTRANCE NOTES

- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FEET MINIMUM.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. A BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.



STABILIZED CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE

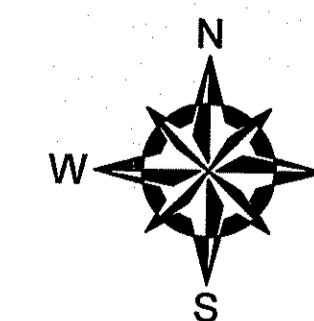
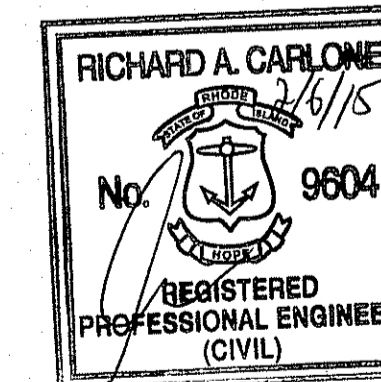
LONG TERM OPERATIONS AND MAINTENANCE

SEDIMENT FOREBAY

SEDIMENT SHALL BE REMOVED WITH EXCAVATION OR VACTOR EQUIPMENT WHEN THE SEDIMENT DEPTH REACHES 2/3 OF THE FOREBAY DEPTH.

INFILTRATION POND

POND SHALL BE INSPECTED ANNUALLY AND AFTER STORMS GREATER OR EQUAL TO THE 1 YEAR, 24 HOUR TYPE III STORM EVENT (2.7 INCHES). IF SEDIMENT OR ORGANIC DEBRIS BUILD-UP HAS LIMITED THE INFILTRATION CAPACITY OF THE POND, THE TOP 6 INCHES OF TOPSOIL SHALL BE REMOVED AND DISPOSED OF. THE SURFACE WILL BE ROTO-TILLED TO A DEPTH OF 12-INCHES, AND THE BASIN BOTTOM RESTORED TO DESIGN SPECIFICATIONS AND DESIGN ELEVATIONS.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 16 2015 FILE # 08-0356
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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NO.	ISSUE/DESCRIPTION	BY	DATE
4	PROP. CONC.PADS / GRAVEL PARKING / TRAILER LOC.	RAC	09/12/14
3	EXISTING CONCRETE PADS / TRAILERS	GRB	05/30/14
2	EXISTING ADDITIONAL STRUCTURES	CRD	12/20/12
1	EXISTING WASTEWATER TREATMENT BUILDING	CRD	07/25/12

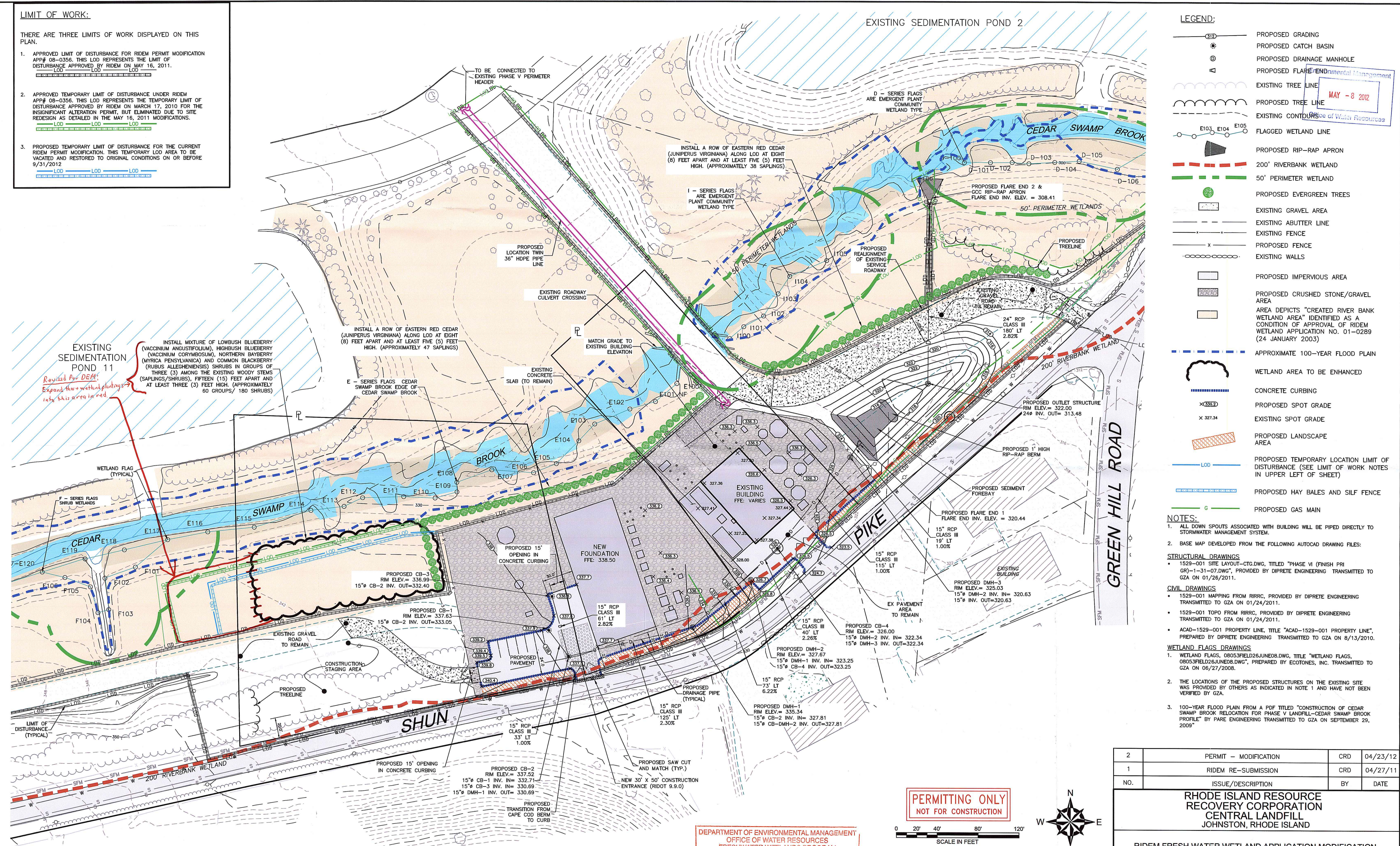
RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
WETLAND PERMIT MODIFICATION DETAIL SHEET

APPROVED:	PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
PROJ MGR: RAC	REVIEWED BY: EAS	CHECKED BY: IR
DESIGNED BY: RAC	DRAWN BY: CRD/DL	SCALE: AS NOTED
DATE: FEBRUARY 2015	PROJECT NO. 33928.15	REVISION NO. 0
FIGURE 3		SHEET NO. 3 OF 3

LIMIT OF WORK:

THERE ARE THREE LIMITS OF WORK DISPLAYED ON THIS PLAN.

1. APPROVED LIMIT OF DISTURBANCE FOR RIDEM PERMIT MODIFICATION APP# 08-0356. THIS LOD REPRESENTS THE LIMIT OF DISTURBANCE APPROVED BY RIDEM ON MAY 16, 2011.
2. APPROVED TEMPORARY LIMIT OF DISTURBANCE UNDER RIDEM APP# 08-0356. THIS LOD REPRESENTS THE TEMPORARY LIMIT OF DISTURBANCE APPROVED BY RIDEM ON MARCH 17, 2010 FOR THE INSIGNIFICANT ALTERATION PERMIT, BUT ELIMINATED DUE TO SITE REDESIGN AS DETAILED IN THE MAY 16, 2011 MODIFICATIONS.
3. PROPOSED TEMPORARY LIMIT OF DISTURBANCE FOR THE CURRENT RIDEM PERMIT MODIFICATION. THIS TEMPORARY LOD AREA TO BE VACATED AND RESTORED TO ORIGINAL CONDITIONS ON OR BEFORE 9/31/2012.



LEGEND:

- PROPOSED GRADING
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED FLARE (Environmental Management)
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CONTOURS
- FLAGGED WETLAND LINE
- PROPOSED RIP-RAP APRON
- 200' RIVERBANK WETLAND
- 50' PERIMETER WETLAND
- PROPOSED EVERGREEN TREES
- EXISTING GRAVEL AREA
- EXISTING ABUTTER LINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING WALLS
- PROPOSED IMPERVIOUS AREA
- PROPOSED CRUSHED STONE/GRAVEL AREA
- AREA DEPICTS "CREATED RIVER BANK WETLAND AREA" IDENTIFIED AS A CONDITION OF APPROVAL OF RIDEM WETLAND APPLICATION NO. 01-0289 (24 JANUARY 2003)
- APPROXIMATE 100-YEAR FLOOD PLAIN
- WETLAND AREA TO BE ENHANCED
- CONCRETE CURBING
- PROPOSED SPOT GRADE
- EXISTING SPOT GRADE
- PROPOSED LANDSCAPE AREA
- PROPOSED TEMPORARY LOCATION LIMIT OF DISTURBANCE (SEE LIMIT OF WORK NOTES IN UPPER LEFT OF SHEET)
- PROPOSED HAY BALES AND SILF FENCE
- PROPOSED GAS MAIN

- NOTES:**
1. ALL DOWN SPOUTS ASSOCIATED WITH BUILDING WILL BE PIPED DIRECTLY TO STORMWATER MANAGEMENT SYSTEM.
 2. BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
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- CIVIL DRAWINGS**
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- WETLAND FLAGS DRAWINGS**
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 2. THE LOCATIONS OF THE PROPOSED STRUCTURES ON THE EXISTING SITE WAS PROVIDED BY OTHERS AS INDICATED IN NOTE 1 AND HAVE NOT BEEN VERIFIED BY GZA.
 3. 100-YEAR FLOOD PLAN FROM A PDF TITLED "CONSTRUCTION OF CEDAR SWAMP BROOK RELOCATION FOR PHASE V LANDFILL-CEDAR SWAMP BROOK PROFILE" BY PARE ENGINEERING TRANSMITTED TO GZA ON SEPTEMBER 29, 2009.

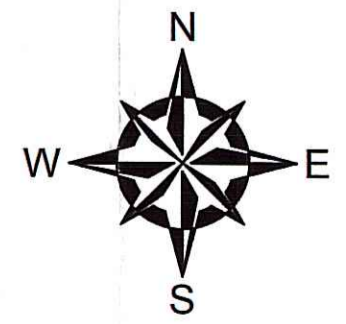
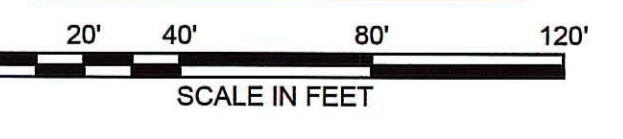
2	PERMIT - MODIFICATION	CRD	04/23/12
1	RIDEM RE-SUBMISSION	CRD	04/27/11
NO.	ISSUE/DESCRIPTION	BY	DATE

RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND

RIDEM FRESH WATER WETLAND APPLICATION MODIFICATION RESTORED CONDITIONS GCC SITE

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND		
PROJ MGR: IR DESIGNED BY: RAC DATE: APRIL 2012	REVIEWED BY: EAS DRAWN BY: CRD/DL PROJECT NO. 33415.08	CHECKED BY: IR SCALE: (1"=40') REVISION NO. 0	FIGURE 1 SHEET NO. 1 of 1

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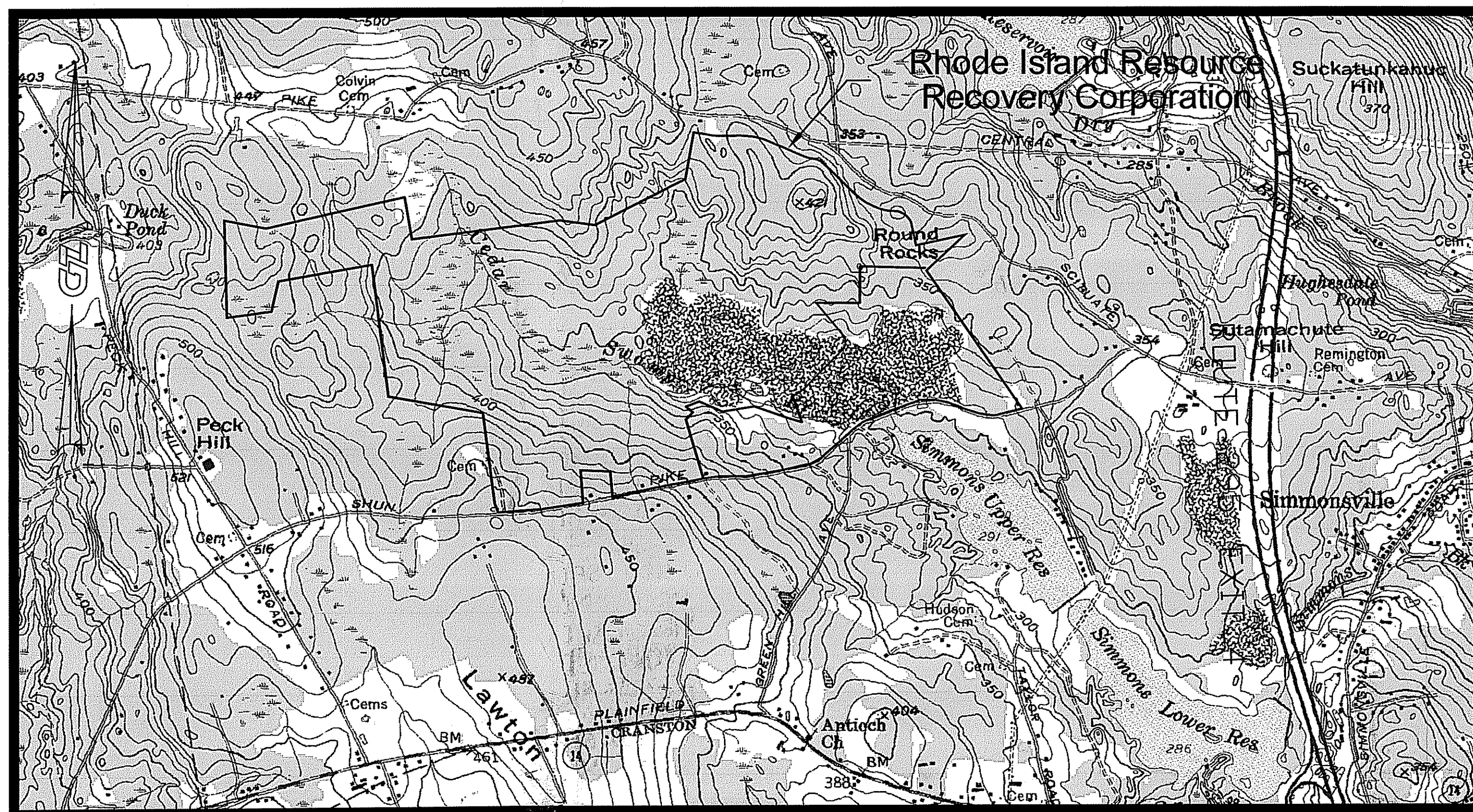
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 25 2012 FILE # 08-0356
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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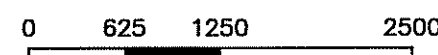
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Ridgewood Providence Power Partners, LLP

65 Shun Pike, Johnston, Rhode Island 02919



GRAPHIC SCALE IN FEET (APPROX. 1"=1250')



Drawing Number	Sheet Title
1.	COVER SHEET & INDEX TO DRAWINGS
2.	EXISTING CONDITIONS
3.	EXISTING CONDITIONS GAS CONDITIONING PLANT
4.	EXISTING CONDITIONS POWER PLANT
5.	PROPOSED CONDITIONS OVERALL
6.	PROPOSED CONDITIONS GAS LINE TO STAGE 2 PLANT
7.	PROPOSED CONDITIONS GAS LINE TO STAGE 2 PLANT
8.	PROPOSED CONDITIONS GAS CONDITIONING PLANT
9.	PROPOSED CONDITIONS GAS LINE ALONG SHUN PIKE
10.	PROPOSED CONDITIONS GAS LINE ALONG SHUN PIKE
11.	PROPOSED CONDITIONS POWER PLANT
12.	DETAIL SHEET
13.	DETAIL SHEET
14.	DETAIL SHEET
15.	MAIN GAS FEED HEADER PLAN & PROFILE STA 0+00 -4+82

JAN 27 2010

RIDEM FRESH WATER WETLAND APPLICATION REQUEST FOR PRELIMINARY DETERMINATION LANDFILL GAS TO ENERGY EXPANSION PROJECT

CENTRAL LANDFILL JOHNSTON, RHODE ISLAND 02919

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 17 2010 FILE # 08-0316
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Gregory D. Wenzel

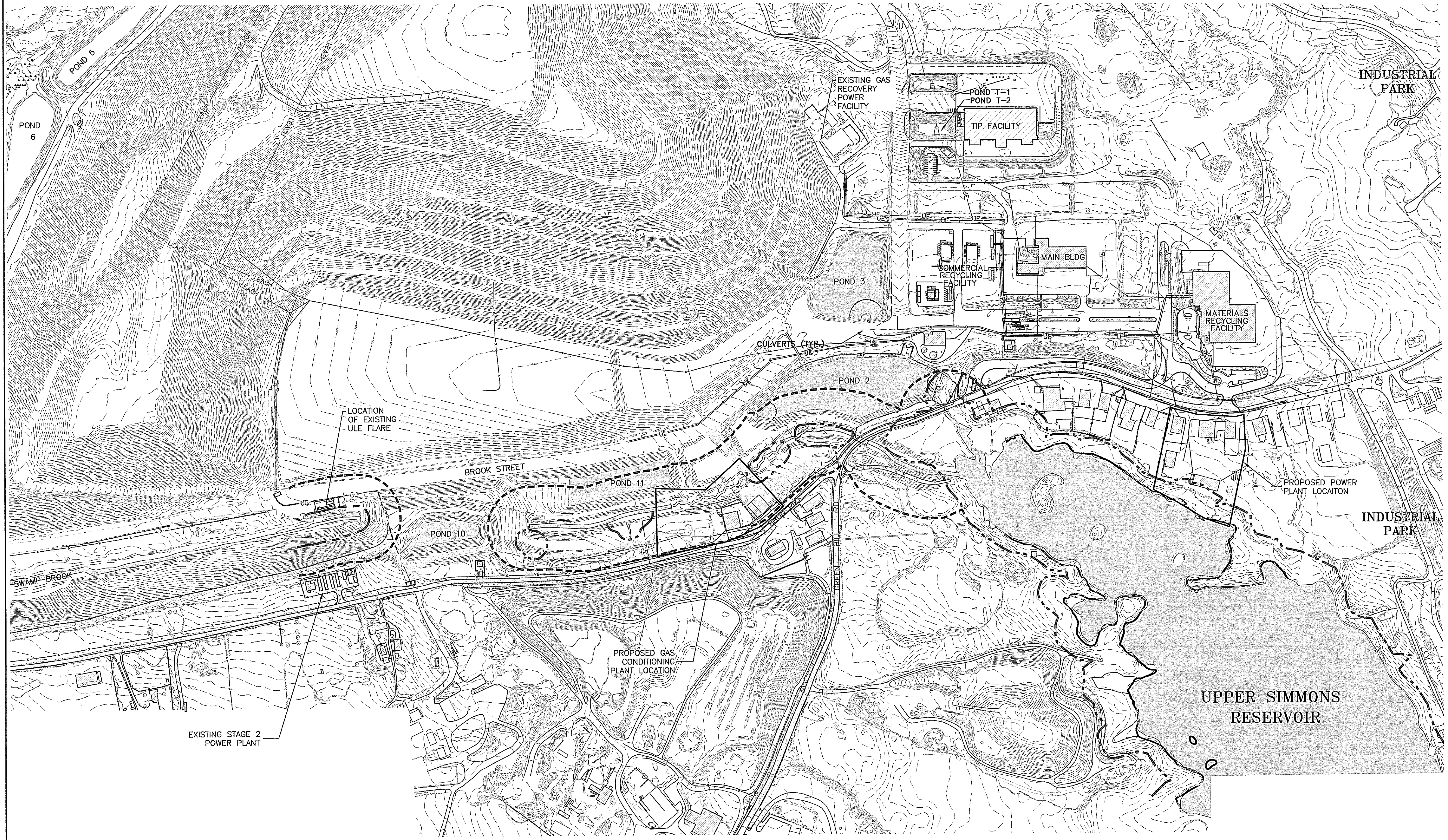


SUBMITTAL DATE: OCTOBER 2009
REVISED JANUARY 2010

GZA Project No. 33415.00



GZA
GeoEnvironmental, Inc.
530 Broadway, Providence, RI 02909
(401) 421-4140 Fax: (401) 751-8613

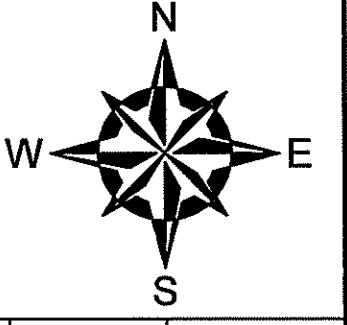
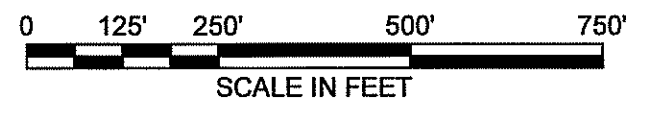


GENERAL NOTES
 1. THE BASE MAP WAS DEVELOPED FROM AUTOCAD DRAWINGS PROVIDED BY PARE ENGINEERING INC. WITH AN ORIGINAL SCALE OF 1"=200'. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2003. LANDFILL TOPOGRAPHY HAS BEEN ROUTINELY UPDATED BY GPS GROUND SURVEYS SINCE THEN.

JAN 27 2010

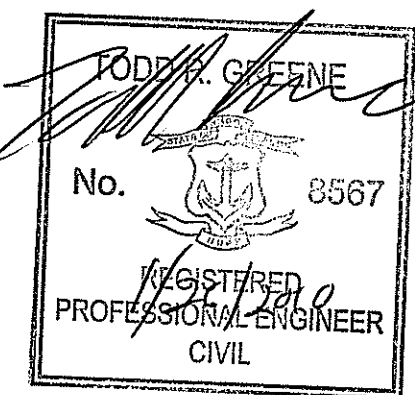
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
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 DATED MAR 17 2010 FILE # 08-0356
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Matthew D. Wenech



LEGEND	
	50' PERIMETER WETLANDS
	200' RIVERBANK WETLAND
	APPROXIMATE 100-YEAR FLOOD PLANE

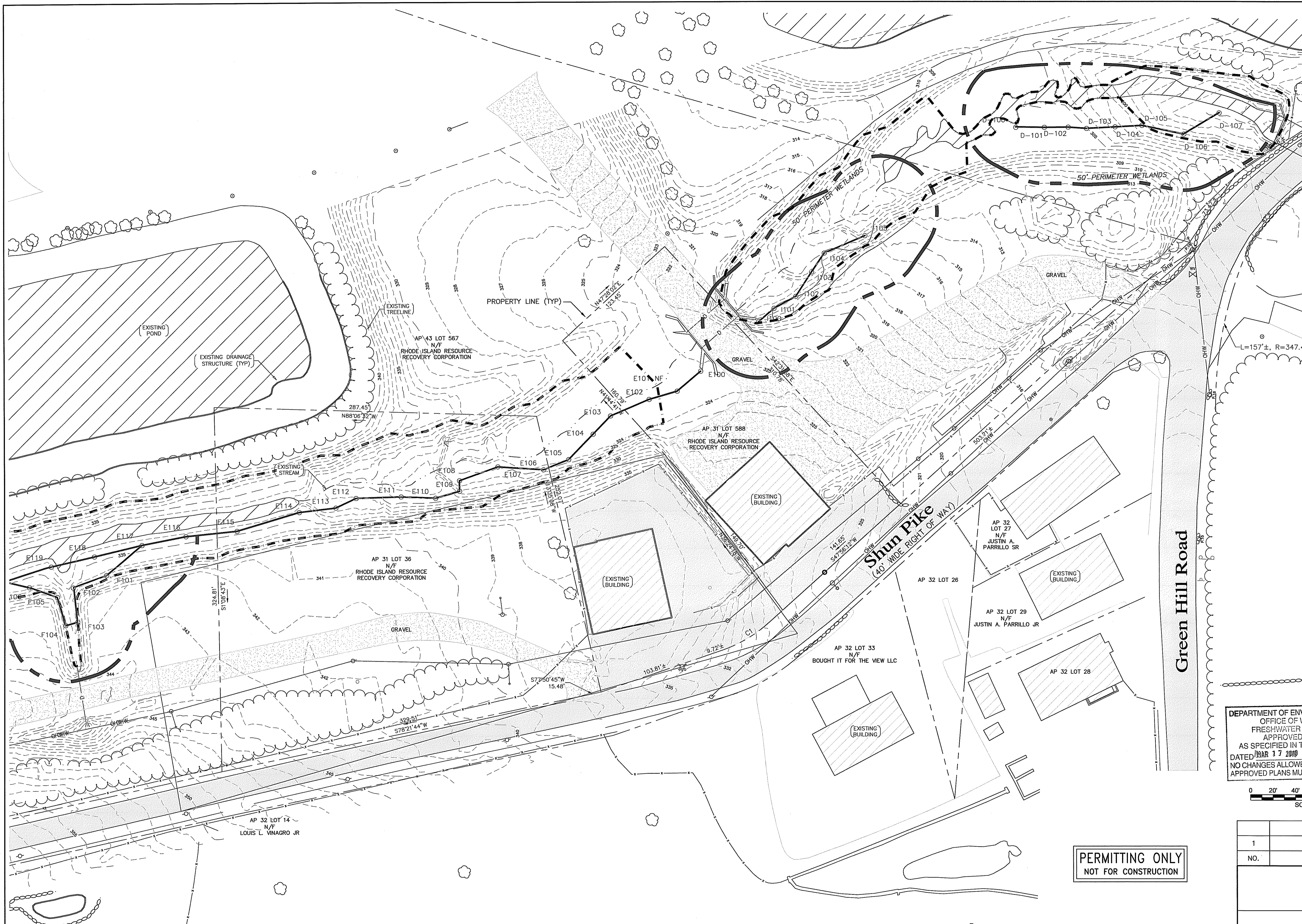
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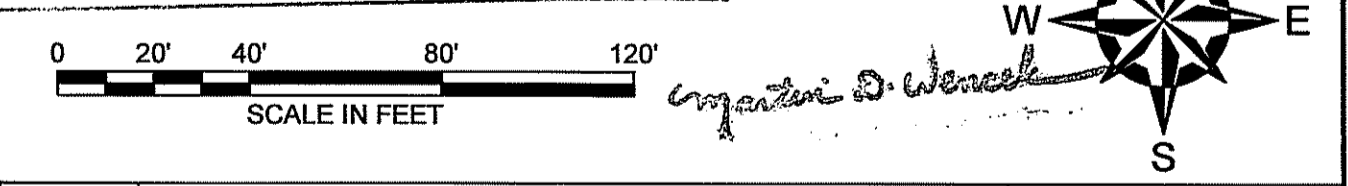
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND		
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: JR	FIGURE
DESIGNED BY: RAC	DRAWN BY: CRD	SCALE: (1"=250')	2
DATE: OCT. 2009	PROJECT NO. 33415.00	REVISION NO. 1	



- LEGEND:**
- EXISTING WALLS
 - EXISTING TREE LINE
 - EXISTING CONTOURS
 - FLAGGED WETLAND LINE
 - EXISTING OVERHEAD WIRES
 - 50' PERIMETER WETLANDS (ASSOCIATED WITH WETLAND PLANT COMMUNITY)
 - EXISTING GRAVEL AREA
 - EXISTING ABUTTER LINE
 - EXISTING FENCE
 - EXISTING PAVED AREA
 - APPROXIMATE 100-YEAR FLOOD PLANE

1. BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
 - STRUCTURAL DRAWINGS
 - PHASE VI (FINISH PRI GR)-1-31-07.DWG, TITLED "PHASE VI (FINISH PRI GR)-1-31-07.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - PRO FINAL GRADE.DWG, TITLED "PRO FINAL GRADE.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - REV 1-PH VI GAS SYSTEM LAYOUT UPDATE.DWG, TITLED "REV 1-PH VI GAS SYSTEM LAYOUT UPDATE.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/09/2008.
 - REV 2-INTERRIM STAGES-PRO-GAS JULY 2007.DWG, TITLED "REV 2-INTERRIM STAGES- PRO-GAS JULY 2007.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - 1G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.
 - 3G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.
 - CIVIL DRAWINGS
 - 1529-001 RIDGEWOOD 08-20-09.DWG, TITLE "1529-001 RIDGEWOOD 08-20-09.DWG", PREPARED BY DIPRETE ENGINEERING ASSOCIATES, INC. TRANSMITTED TO GZA ON 8/20/2009.
 - WETLANDS FLAGS DRAWINGS
 - WETLAND FLAGS, 08053FIELD26JUNE08.DWG, TITLE "WETLAND FLAGS, 08053FIELD26JUNE08.DWG", PREPARED BY ECOTONES, INC. TRANSMITTED TO GZA ON 06/27/2008.
2. THE LOCATION(S) OF THE PROPOSED STRUCTURE(S) ON THE EXISTING SITE WAS PROVIDED BY OTHERS AS INDICATED IN NOTE 1 AND HAS NOT BEEN VERIFIED BY GZA.
3. 100-YEAR FLOOD PLANE FROM A PDF TITLED "CONSTRUCTION OF CEDAR SWAMP BROOK RELOCATION FOR PHASE V LANDFILL-CEDAR SWAMP BROOK PROFILE" BY PARE ENGINEERING CORPORATION TRANSMITTED TO GZA ON SEPTEMBER 29, 2009"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED ~~MAR 17 2010~~ FILE # 08-0316
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TODD R. BRZENE
 No. 6537
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

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APPROVED:	PREPARED BY:	PREPARED FOR:	FIGURE:
	GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND	3
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: IR	SCALE: (1"=40')
DESIGNED BY: RAC	DRAWN BY: CRD	DATE: OCT. 2009	PROJECT NO. 33415.00
		REVISION NO. 1	SHEET NO. 3 of 15



- LEGEND:**
- EXISTING WALLS
 - EXISTING TREE LINE
 - EXISTING CONTOURS
 - FLAGGED WETLAND LINE
 - EXISTING OVERHEAD WIRES
 - 50' PERIMETER WETLANDS (ASSOCIATED WITH WETLAND PLANT COMMUNITY)
 - EXISTING GRAVEL AREA
 - EXISTING ABUTTER LINE
 - EXISTING FENCE
 - EXISTING PAVED AREA

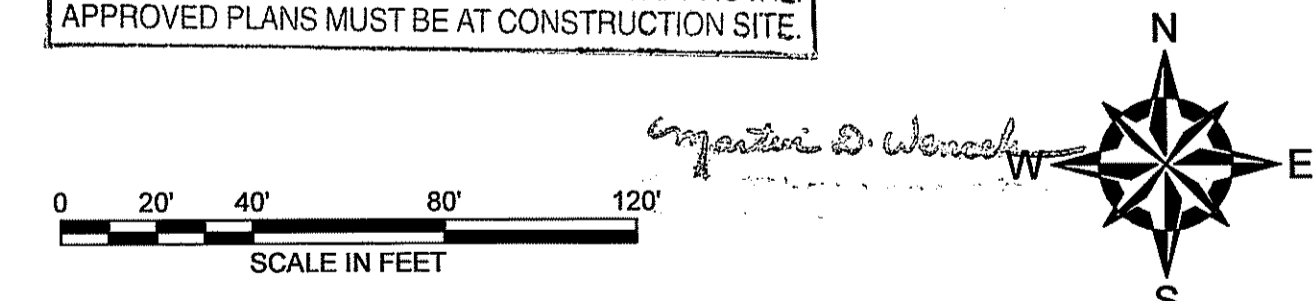
JAN 27 2010

- NOTES:**
1. BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
STRUCTURAL DRAWINGS
 - PHASE VI (FINISH PRI GR)-1-31-07.DWG, TITLED "PHASE VI (FINISH PRI GR)-1-31-07.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - PRO FINAL GRADE.DWG, TITLED "PRO FINAL GRADE.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
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 - REV 2-INTERRIM STAGES-PRO-GAS JULY 2007.DWG, TITLED "REV 2-INTERRIM STAGES- PRO-GAS JULY 2007.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - 1G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.
 - 3G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.**CIVIL DRAWINGS**
 - 1529-001 RIDGEWOOD 08-20-09.DWG, TITLE "1529-001 RIDGEWOOD 08-20-09.DWG", PREPARED BY DIPRETE ENGINEERING ASSOCIATES, INC. TRANSMITTED TO GZA ON 8/20/2009.**WETLANDS FLAGS DRAWINGS**
 - WETLAND FLAGS, 08053FIELD26JUNE08.DWG, TITLE "WETLAND FLAGS, 08053FIELD26JUNE08.DWG", PREPARED BY ECOTONES, INC. TRANSMITTED TO GZA ON 06/27/2008.
 2. THE LOCATION(S) OF THE PROPOSED STRUCTURE(S) ON THE EXISTING SITE WAS PROVIDED BY OTHERS AS INDICATED IN NOTE 1 AND HAS NOT BEEN VERIFIED BY GZA.
 3. 100-YEAR FLOOD PLANE FROM A PDF TITLED "CONSTRUCTION OF CEDAR SWAMP BROOK RELOCATION FOR PHASE V LANDFILL-CEDAR SWAMP BROOK PROFILE" BY PARE ENGINEERING CORPORATION TRANSMITTED TO GZA ON SEPTEMBER 29, 2009"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: Jan 17 2010 FILE # 08-0356
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
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TODD P. GREENE
 No. 8567
 PROFESSIONAL ENGINEER
 CIVIL

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1	RIDEM RE-SUBMISSION	CRD	01/20/10
NO.	ISSUE/DESCRIPTION	BY	DATE

RHODE ISLAND RESOURCE RECOVERY CORPORATION
CENTRAL LANDFILL
JOHNSTON, RHODE ISLAND

RIDEM FRESH WATER WETLAND APPLICATION
EXISTING CONDITIONS POWER PLANT

APPROVED:	PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: IR
DESIGNED BY: RAC	DRAWN BY: CRD	SCALE: (1"=40')
DATE: OCT. 2009	PROJECT NO. 33415.00	REVISION NO. 1

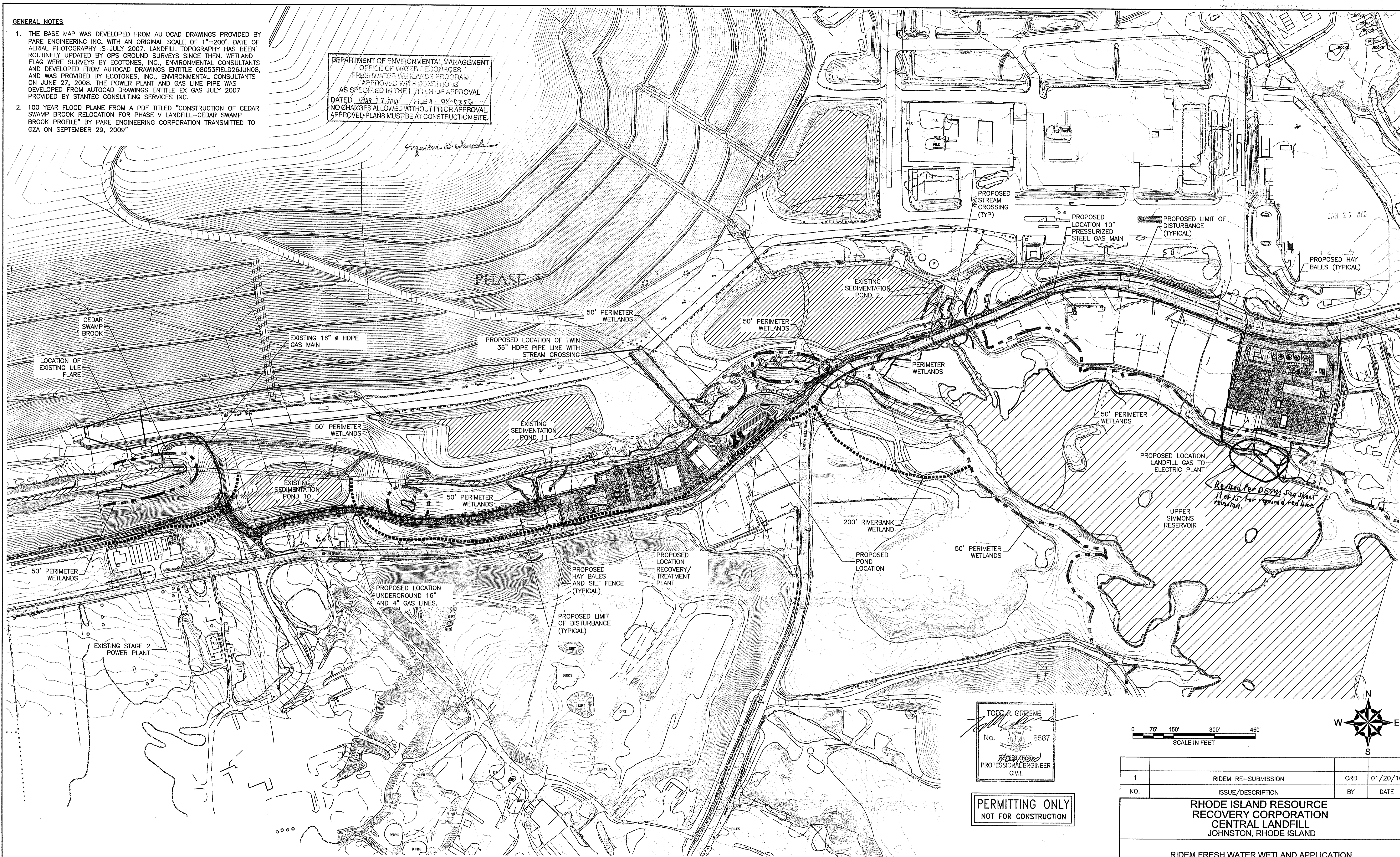
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GENERAL NOTES

1. THE BASE MAP WAS DEVELOPED FROM AUTOCAD DRAWINGS PROVIDED BY PARE ENGINEERING INC. WITH AN ORIGINAL SCALE OF 1"=200'. DATE OF AERIAL PHOTOGRAPHY IS JULY 2007. LANDFILL TOPOGRAPHY HAS BEEN ROUTINELY UPDATED BY GPS GROUND SURVEYS SINCE THEN. WETLAND FLAG WERE SURVEYS BY ECOTONES, INC., ENVIRONMENTAL CONSULTANTS AND DEVELOPED FROM AUTOCAD DRAWINGS ENTITLED 08053FIELD26JUN08, AND WAS PROVIDED BY ECOTONES, INC., ENVIRONMENTAL CONSULTANTS ON JUNE 27, 2008. THE POWER PLANT AND GAS LINE PIPE WAS DEVELOPED FROM AUTOCAD DRAWINGS ENTITLED EX GAS JULY 2007 PROVIDED BY STANTEC CONSULTING SERVICES INC.
2. 100 YEAR FLOOD PLANE FROM A PDF TITLED "CONSTRUCTION OF CEDAR SWAMP BROOK RELOCATION FOR PHASE V LANDFILL-CEDAR SWAMP BROOK PROFILE" BY PARE ENGINEERING CORPORATION TRANSMITTED TO GZA ON SEPTEMBER 29, 2009"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAR 17 2010 FILE # 08-0256
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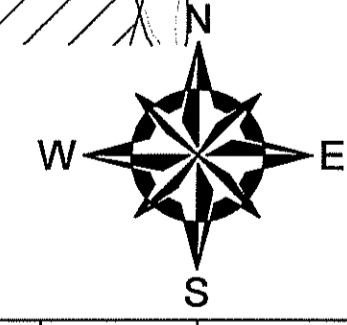
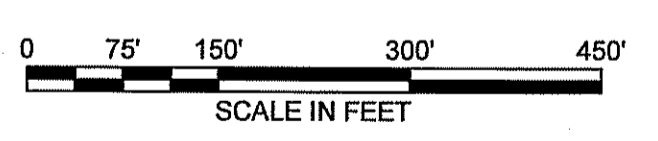
Christopher D. Wenzel



Revised per DGM. See sheet 11 of 15 for required red lines

TODD R. GRZENE
 No. 3567
 PROFESSIONAL ENGINEER
 CIVIL

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LEGEND

- 50' PERIMETER WETLANDS
- 200' RIVERBANK WETLAND
- WETLAND EDGE FLAG
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HAY BALES AND SILT FENCE
- 16" Ø HDPE TREATED GAS MAIN
- PROPOSED LOCATION TWIN 36" HDPE PIPE LINE
- PROPOSED LOCATION OF GAS MAIN
- APPROX. 100-YEAR FLOOD PLANE
- ☁ INDICATES STREAM CROSSING LOCATION

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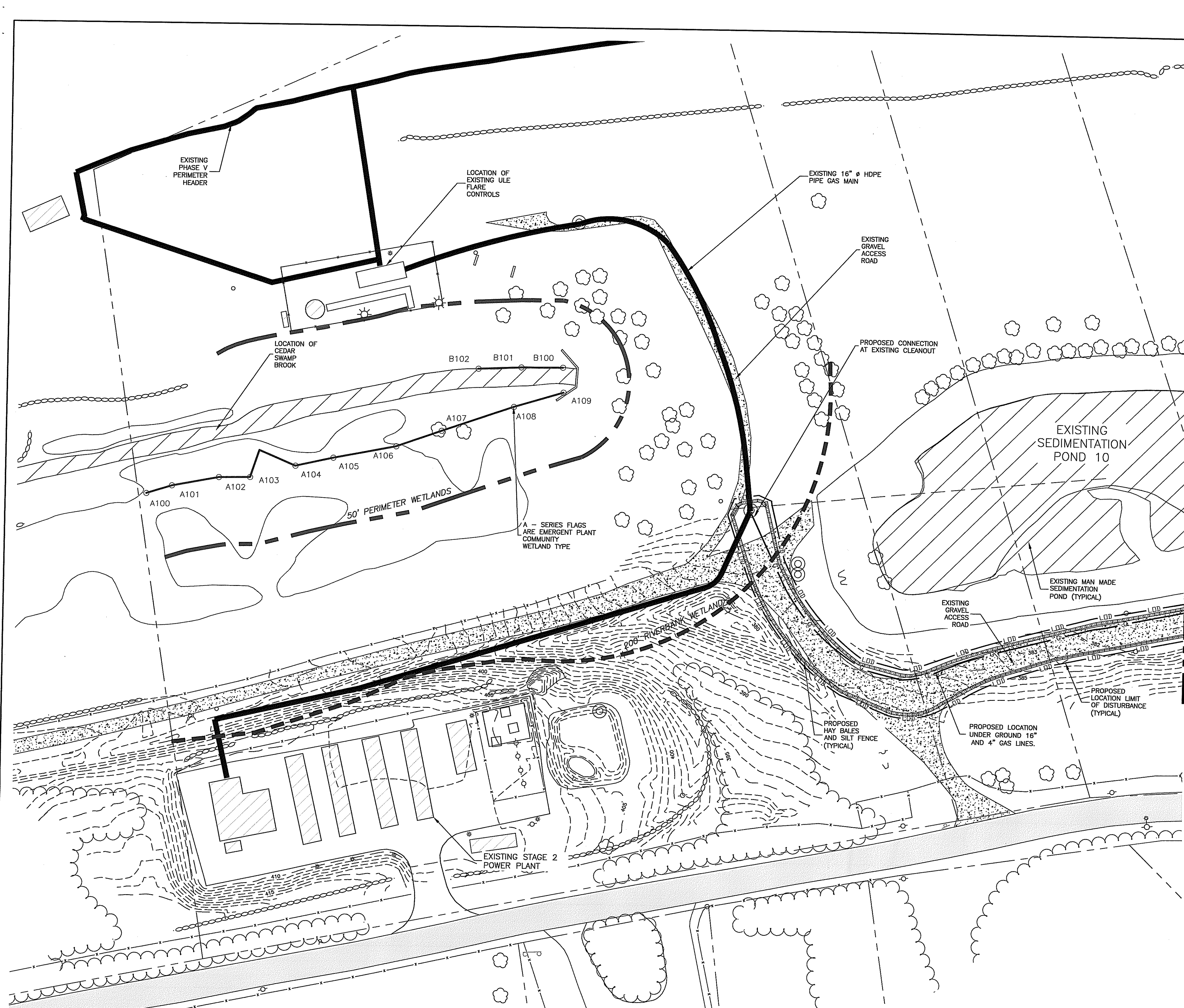
APPROVED:

1	RIDEM RE-SUBMISSION	CRD	01/20/10
NO.	ISSUE/DESCRIPTION	BY	DATE

RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND

RIDEM FRESH WATER WETLAND APPLICATION PROPOSED CONDITIONS OVERALL

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 335 BRIDGEMAN PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND		
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: IR	FIGURE
DESIGNED BY: RAC	DRAWN BY: CRD	SCALE: (1"=150')	5
DATE: OCT 2009	PROJECT NO. 33415.00	REVISION NO. 1	SHEET NO. 5 of 15



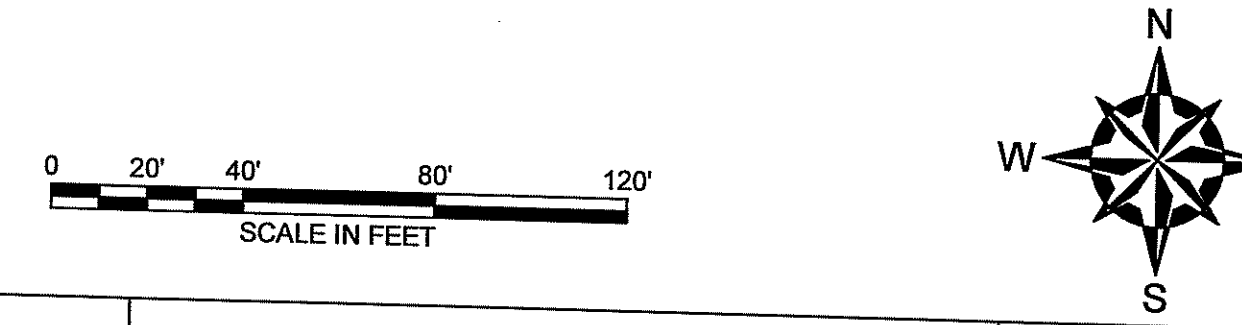
- LEGEND:**
- PROPOSED SILT FENCE/HAYBALES ALONG LIMIT OF DISTURBANCE
 - LOD LIMIT OF DISTURBANCE
 - (312) PROPOSED GRADING
 - ⊙ PROPOSED CATCH BASIN
 - ⊙ PROPOSED DOUBLE CATCH BASIN
 - ⊙ PROPOSED DRAINAGE MANHOLE
 - ▽ PROPOSED FLARE END
 - G PROPOSED GAS LINE UNDERGROUND WITHIN ROADWAY
 - EXISTING TREE LINE
 - PROPOSED TREE LINE
 - EXISTING CONTOURS
 - EXISTING STREAM
 - E103 E104 E105 FLAGGED WETLAND LINE
 - OHW EXISTING OVERHEAD WIRES
 - PROPOSED RIP-RAP APRON
 - 200' RIVERBANK WETLAND
 - 50' PERIMETER WETLAND
 - EXISTING GRAVEL AREA
 - EXISTING ABUTTER LINE
 - EXISTING FENCE
 - PROPOSED FENCE
 - EXISTING WALLS
 - EXISTING PAVED AREA
 - APPROXIMATE 100-YEAR FLOOD PL

- NOTES:**
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TODD R. GREENE
 No. 6867
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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1	RIDEM RE-SUBMISSION	CRD	01/20/09
NO.	ISSUE/DESCRIPTION	BY	DATE

**RHODE ISLAND RESOURCE RECOVERY CORPORATION
 CENTRAL LANDFILL
 JOHNSTON, RHODE ISLAND**

**RIDEM FRESH WATER WETLAND APPLICATION
 PROPOSED CONDITIONS GAS LINE TO STAGE 2 POWER PLANT**

APPROVED:	PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 559 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: IR
DESIGNED BY: RAC	DRAWN BY: CRD	SCALE: (1"=40')
DATE: OCT. 2009	PROJECT NO. 33415.00	REVISION NO. 1
		FIGURE 6
		SHEET NO. 6 of 15

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAR 17 2010 FILE # 08-0356
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

AREA DEPICTS "CREATED RIVER BANK
 WETLAND AREA" IDENTIFIED AS A
 CONDITION OF APPROVAL OF RIDEM
 WETLAND APPLICATION NO. 01-0289
 (24 JANUARY 2003)

EXISTING
 SEDIMENTATION
 POND 2

LEGEND:

- PROPOSED SILT FENCE/HAYBALES ALONG LIMIT OF DISTURBANCE
- LOD LIMIT OF DISTURBANCE
- LOD TEMPORARY LIMIT OF DISTURBANCE
- PROPOSED GRADING
- PROPOSED CATCH BASIN
- PROPOSED DOUBLE CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED FLARE END
- PROPOSED GAS LINE UNDERGROUND WITHIN ROADWAY
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CONTOURS
- EXISTING STREAM
- FLAGGED WETLAND LINE
- EXISTING OVERHEAD WIRES
- PROPOSED RIP-RAP APRON
- 200' RIVERBANK WETLAND
- 50' PERIMETER WETLAND
- PROPOSED EVERGREEN TREES (Revised for DEM: install this at 11' offset)
- EXISTING GRAVEL AREA
- EXISTING ABUTTER LINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING WALLS
- EXISTING PAVED AREA
- APPROXIMATE 100-YEAR FLOOD PLANE
- WETLAND AREA TO BE ENHANCED (Revised for DEM: install this at 11' offset)

NOTES:

1. BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
STRUCTURAL DRAWINGS
 - PHASE VI (FINISH PRI GR)-1-31-07.DWG, TITLED "PHASE VI (FINISH PRI GR)-1-31-07.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - PRO FINAL GRADE.DWG, TITLED "PRO FINAL GRADE.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - REV 1-PH VI GAS SYSTEM LAYOUT UPDATE.DWG, TITLED "REV 1-PH VI GAS SYSTEM LAYOUT UPDATE.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/09/2008.
 - REV 2-INTERIM STAGES-PRO-GAS JULY 2007.DWG, TITLED "REV 2-INTERIM STAGES-PRO-GAS JULY 2007.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 - 1G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.
 - 3G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.**CIVIL DRAWINGS**
 - 1529-001 RIDGEWOOD 08-20-09.DWG, TITLE "1529-001 RIDGEWOOD 08-20-09.DWG", PREPARED BY DIPRETE ENGINEERING ASSOCIATES, INC. TRANSMITTED TO GZA ON 8/20/2009.**WETLANDS FLAGS DRAWINGS**
 - WETLAND FLAGS, 08053FIELD26JUNE08.DWG, TITLE "WETLAND FLAGS, 08053FIELD26JUNE08.DWG", PREPARED BY ECOTONES, INC. TRANSMITTED TO GZA ON 06/27/2008.
2. THE LOCATION(S) OF THE PROPOSED STRUCTURE(S) ON THE EXISTING SITE WAS PROVIDED BY OTHERS AS INDICATED IN NOTE 1 AND HAS NOT BEEN VERIFIED BY GZA.
3. 100-YEAR FLOOD PLANE FROM A PDF TITLED "CONSTRUCTION OF CEDAR SWAMP BROOK RELOCATION FOR PHASE V LANDFILL-CEDAR SWAMP BROOK PROFILE" BY PARE ENGINEERING CORPORATION TRANSMITTED TO GZA ON SEPTEMBER 29, 2009"

PROPOSED AREA TO BE ENHANCED
 Revised Per DEM: Install a mixture of Lowbush blueberry (*Vaccinium angustifolium*), Highbush blueberry (*Vaccinium corymbosum*), Northern Bayberry (*Myrica pensylvanica*), and Common Blackberry (*Rubus allegheniensis*) shrubs at least three (3) feet in height in rows of three among the existing woody stems (saplings/shrubs). Groups must be no farther than fifteen (15) feet apart.

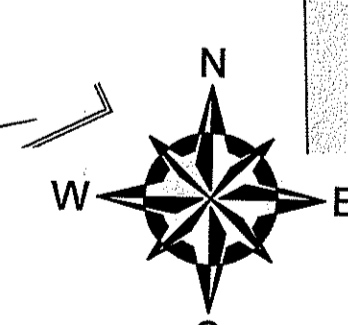
PROPOSED AREA TO BE ENHANCED WITH BERRY PRODUCING SHRUBS AND BUSHES SUCH AS EARLY AND LATE LOWBUSH BLUEBERRY, WINTERBERRY, COMMON PICEBERRY, COMMON DOGWOOD, RED-OVER DOGWOOD AS DISCUSSED IN APPLICATION NARRATIVE

Per DEM: Install a row of Eastern Red Cedar (*Juniperus virginiana*) saplings here along the limit of disturbance (LOD). Saplings must be at least five (5) feet in height and planted eight (8) feet apart.

Revised Per DEM: Install a row of Eastern Red Cedar (*Juniperus virginiana*) saplings here along the limit of disturbance (LOD). Saplings must be at least five (5) feet in height and planted eight (8) feet apart.

TODD B. GREENE
 No. 8567
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

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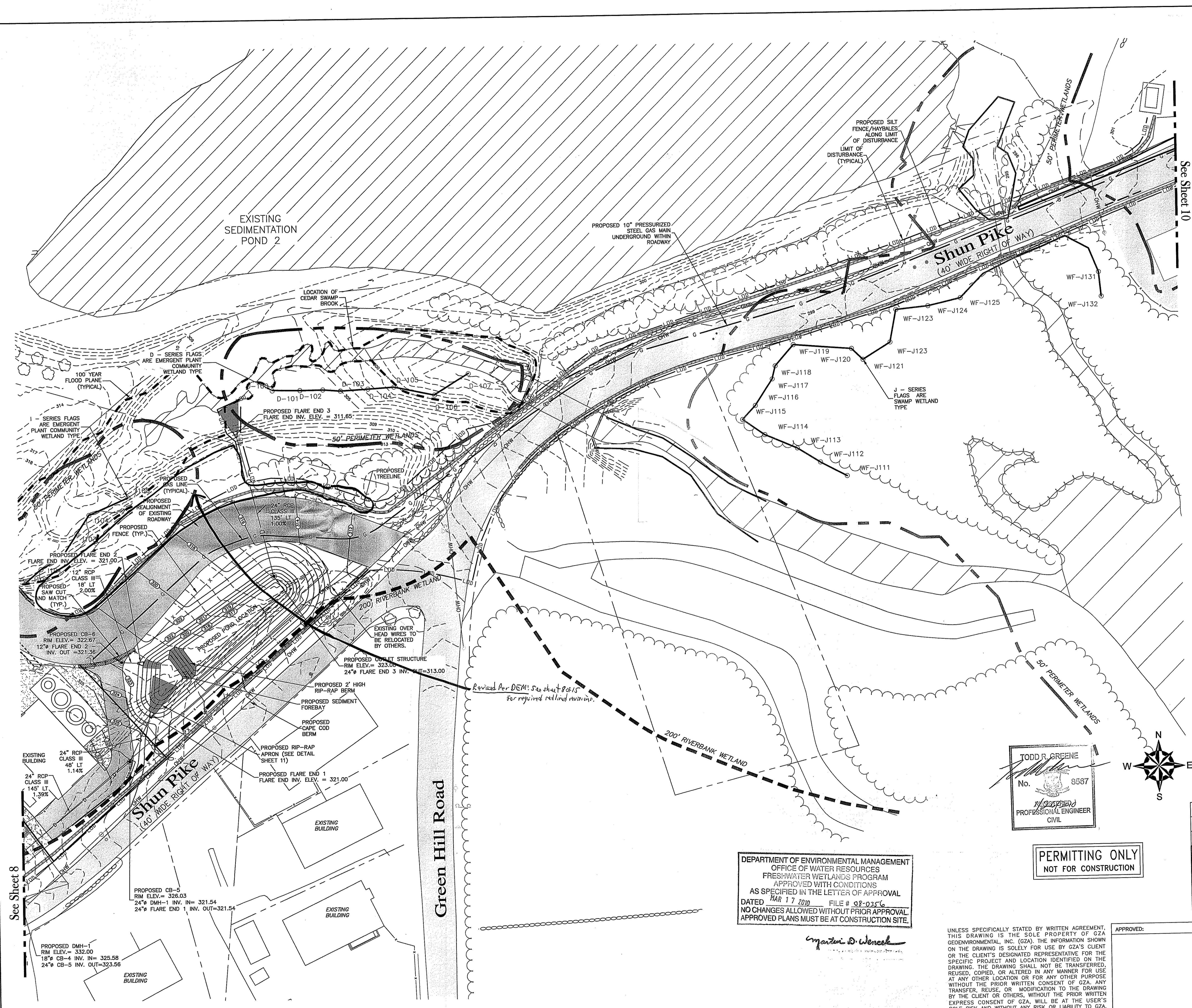
NO.	ISSUE/DESCRIPTION	CRD	DATE
1	RIDEM RE-SUBMISSION		01/20/10

RHODE ISLAND RESOURCE RECOVERY CORPORATION
 CENTRAL LANDFILL
 JOHNSTON, RHODE ISLAND

RIDEM FRESH WATER WETLAND APPLICATION
 PROPOSED CONDITIONS GAS CONDITIONING PLANT

APPROVED:	PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 630 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: IR
DESIGNED BY: RAC	DRAWN BY: CRD	SCALE: (1"=40')
DATE: OCT. 2009	PROJECT NO. 33415.00	REVISION NO. 1
		FIGURE 8
		SHEET NO. 8 of 15

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.



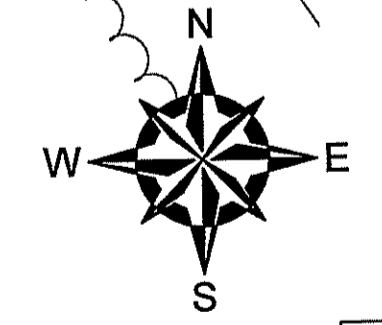
LEGEND:

- LOD — LIMIT OF DISTURBANCE
- G — PROPOSED GRADING
- ⊙ — PROPOSED CATCH BASIN
- ⊕ — PROPOSED DOUBLE BASIN
- ⊖ — PROPOSED DRAINAGE MANHOLE
- ⊔ — PROPOSED FLARE END
- G — PROPOSED GAS LINE UNDERGROUND WITHIN ROADWAY
- — — — — EXISTING TREE LINE
- — — — — PROPOSED TREE LINE
- — — — — EXISTING CONTOURS
- — — — — EXISTING STREAM
- E103 E104 E105 — — — — — FLAGGED WETLAND LINE
- — — — — EXISTING OVERHEAD WIRES
- — — — — PROPOSED RIP—RAP APRON
- — — — — 200' RIVERBANK WETLAND
- — — — — 50' PERIMETER WETLAND
- ⊙ (Revised for DEM, see sheet 8 & 11 of 15) — — — — — PROPOSED EVERGREEN TREES
- — — — — — EXISTING GRAVEL AREA
- — — — — EXISTING ABUTTER LINE
- — — — — EXISTING FENCE
- — — — — PROPOSED FENCE
- — — — — EXISTING WALLS
- — — — — — EXISTING PAVED AREA
- — — — — APPROXIMATE 100-YEAR FLOOD PLANE
- ⊔ (Revised for DEM, see sheet 8 & 11 of 15) — — — — — WETLAND AREA TO BE ENHANCED

NOTES:

- BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
STRUCTURAL DRAWINGS
 • PHASE VI (FINISH PRI GR)—1-31-07.DWG, TITLED "PHASE VI (FINISH PRI GR)—1-31-07.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 • PRO FINAL GRADE.DWG, TITLED "PRO FINAL GRADE.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 • REV 1-PH VI GAS SYSTEM LAYOUT UPDATE.DWG, TITLED "REV 1-PH VI GAS SYSTEM LAYOUT UPDATE.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/09/2008.
 • REV 2-INTERRIM STAGES-PRO-GAS JULY 2007.DWG, TITLED "REV 2-INTERRIM STAGES- PRO-GAS JULY 2007.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
 • 1G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.
 • 3G2-01.DWG, TITLE "GENERAL ARRANGEMENT OVERALL CTG SITE", PREPARED BY JACOBS CARTER BURGESS TRANSMITTED TO GZA ON 01/05/2010.
CIVIL DRAWINGS
 • 1529-001 RIDGEWOOD 08-20-09.DWG, TITLE "1529-001 RIDGEWOOD 08-20-09.DWG", PREPARED BY DIPRETE ENGINEERING ASSOCIATES, INC. TRANSMITTED TO GZA ON 8/20/2009.
WETLANDS FLAGS DRAWINGS
 • WETLAND FLAGS, 08053FIELD26JUN08.DWG, TITLE "WETLAND FLAGS, 08053FIELD26JUN08.DWG", PREPARED BY ECOTONES, INC. TRANSMITTED TO GZA ON 06/27/2008.
 2. THE LOCATION(S) OF THE PROPOSED STRUCTURE(S) ON THE EXISTING SITE WAS PROVIDED BY OTHERS AS INDICATED IN NOTE 1 AND HAS NOT BEEN VERIFIED BY GZA.
 3. 100-YEAR FLOOD PLANE FROM A PDF TITLED "CONSTRUCTION OF CEDAR SWAMP BROOK RELOCATION FOR PHASE V LANDFILL-CEDAR SWAMP BROOK PROFILE" BY PARE ENGINEERING CORPORATION TRANSMITTED TO GZA ON SEPTEMBER 29, 2009"

TODD R. GREENE
 No. 8887
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAR 17 2010 FILE # 08-0316
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

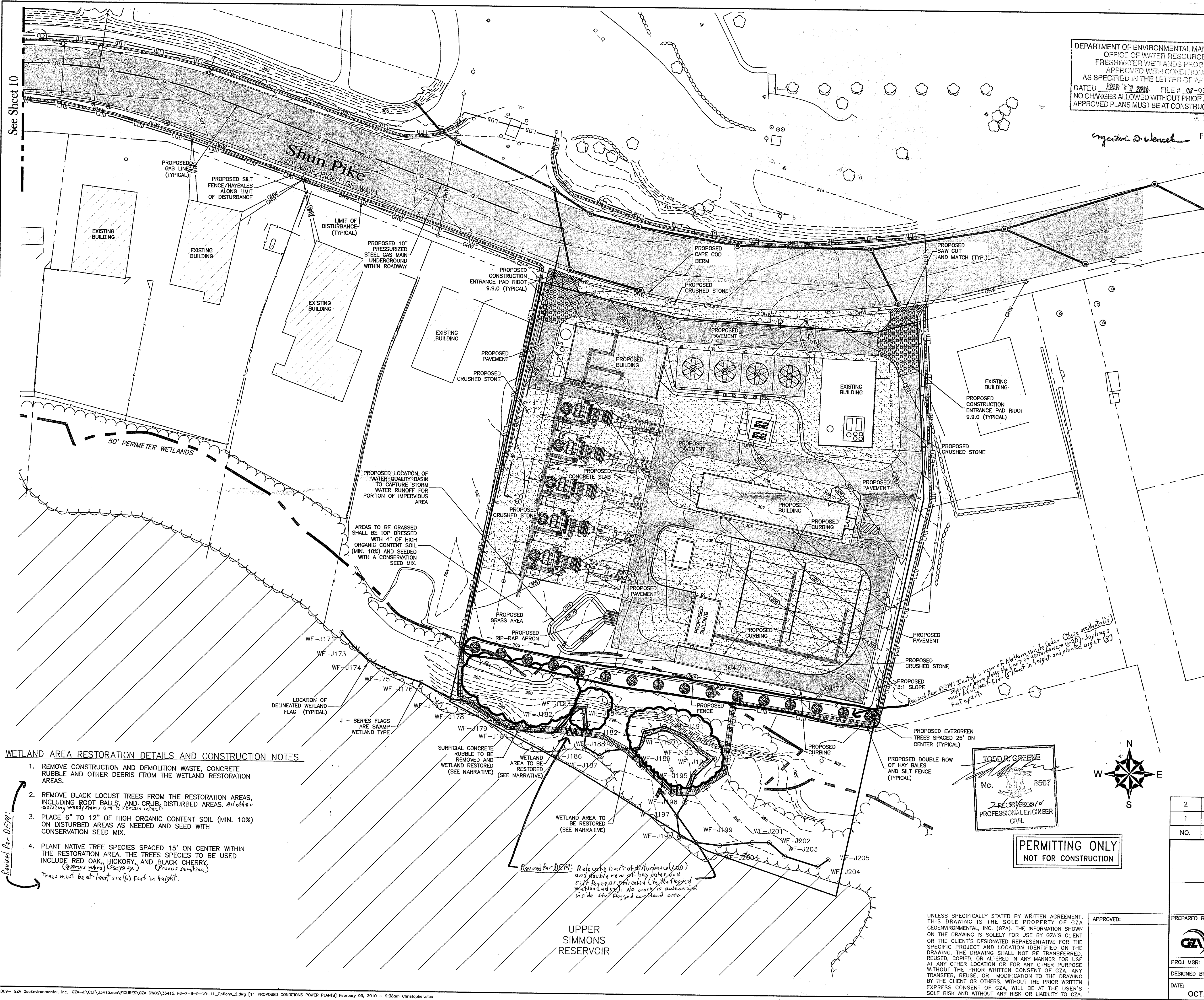
PERMITTING ONLY
 NOT FOR CONSTRUCTION

1	RIDEM RE-SUBMISSION	CRD	01/20/10
NO.	ISSUE/DESCRIPTION	BY	DATE
RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND			
RIDEM FRESH WATER WETLAND APPLICATION PROPOSED CONDITIONS GAS LINE ALONG SHUN PIKE			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140		PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
PROJ MGR:	IR	REVIEWED BY:	EAS
DESIGNED BY:	RAC	CHECKED BY:	IR
DATE:	OCT. 2009	SCALE:	(1"=40')
		PROJECT NO.:	33415.00
		REVISION NO.:	1
			FIGURE 9
			SHEET NO. 9 of 15

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA. THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

See Sheet 8

See Sheet 10



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 10/27/2010 FILE # 08-0356
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Matthew D. Wenzel FEB - 5 2010

- LEGEND:**
- LDD — PROPOSED SILT FENCE/HAYBALES ALONG LIMIT OF DISTURBANCE
 - 312 — LIMIT OF DISTURBANCE
 - 312 — PROPOSED GRADING
 - ⊙ — PROPOSED CATCH BASIN
 - ⊙ — PROPOSED DOUBLE CATCH BASIN
 - ⊙ — PROPOSED DRAINAGE MANHOLE
 - ∇ — PROPOSED FLARE END
 - G — PROPOSED GAS LINE UNDERGROUND WITHIN ROADWAY
 - — EXISTING TREE LINE
 - — PROPOSED TREE LINE
 - — EXISTING CONTOURS
 - — EXISTING STREAM
 - E103, E104, E105 — FLAGGED WETLAND LINE
 - OHW — EXISTING OVERHEAD WIRES
 - — PROPOSED RIP-RAP APRON
 - — 200' RIVERBANK WETLAND
 - — 50' PERIMETER WETLAND
 - ⊙ — PROPOSED EVERGREEN TREES (Revised Per DEM: See this sheet and sheet 8 of 15)
 - — EXISTING GRAVEL AREA
 - — EXISTING ABUTTER LINE
 - — EXISTING FENCE
 - x — PROPOSED FENCE
 - — EXISTING WALLS
 - — EXISTING PAVED AREA
 - — WETLAND AREA TO BE RESTORED (SEE WETLAND AREA RESTORATION DETAILS AND CONSTRUCTION NOTES)

- NOTES:**
- BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
STRUCTURAL DRAWINGS
 - PHASE VI (FINISH PRI GR)-1-31-07.DWG, TITLED "PHASE VI (FINISH PRI GR)-1-31-07.DWG", PREPARED BY STANTEC TRANSMITTED TO GZA ON 06/10/2008.
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WETLAND AREA RESTORATION DETAILS AND CONSTRUCTION NOTES

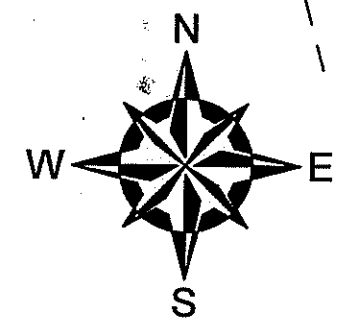
- REMOVE CONSTRUCTION AND DEMOLITION WASTE, CONCRETE RUBBLE AND OTHER DEBRIS FROM THE WETLAND RESTORATION AREAS.
- REMOVE BLACK LOCUST TREES FROM THE RESTORATION AREAS, INCLUDING ROOT BALLS, AND GRUB DISTURBED AREAS. All other existing vegetation are to remain intact.
- PLACE 6" TO 12" OF HIGH ORGANIC CONTENT SOIL (MIN. 10%) ON DISTURBED AREAS AS NEEDED AND SEED WITH CONSERVATION SEED MIX.
- PLANT NATIVE TREE SPECIES SPACED 15' ON CENTER WITHIN THE RESTORATION AREA. THE TREE SPECIES TO BE USED INCLUDE RED OAK, HICKORY, AND BLACK CHERRY (*Quercus rubra*), (*Carya sp.*), (*Prunus serotina*). Trees must be at least six (6) feet in height.

Revised Per DEM:

Revised Per DEM: Relocate limit of disturbance (LOD) and double row of hay bales and silt fence as indicated (to the flagged wetland area). No work is authorized inside the flagged wetland area.

TODD R. GREENE
 No. 6587
 2/25/2010
 PROFESSIONAL ENGINEER
 CIVIL

**PERMITTING ONLY
 NOT FOR CONSTRUCTION**

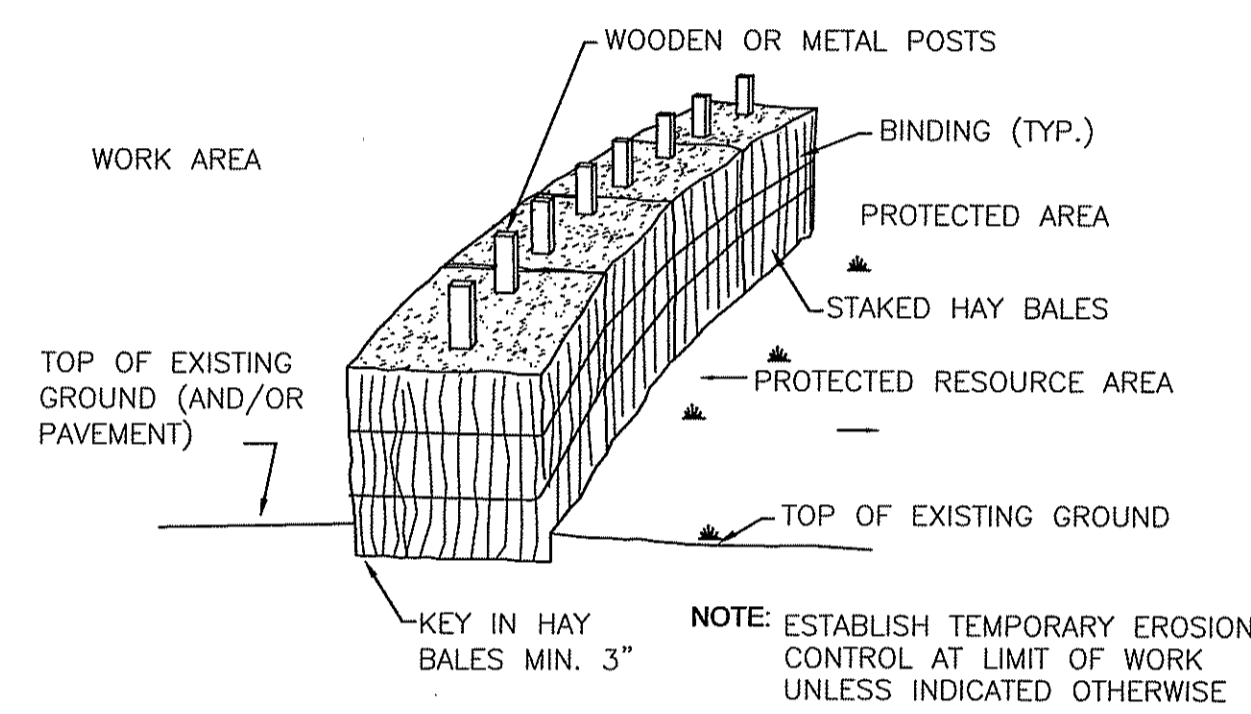


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APPROVED:	PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-1100		PREPARED FOR:	RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL, JOHNSTON, RHODE ISLAND
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: IR	FIGURE		
DESIGNED BY: RAC	DRAWN BY: CRD	SCALE: (1"=40')	11		
DATE: OCT. 2009	PROJECT NO. 33415.00	REVISION NO. 1	SHEET NO. 11 OF 15		

CONSTRUCTION SPECIFICATIONS:

- BALES SHALL BE PLACED WHERE SPECIFIED ON DRAWINGS IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO WOODEN STAKES DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER.
- IN EXISTING PAVEMENT AREAS, THE CONTRACTOR SHALL SAWCUT AND REMOVE PAVEMENT AS NECESSARY TO INSTALL HAYBALES AND SILTATION FENCE AS SHOWN (i.e., PAVEMENT SHALL BE REMOVED TO ACCOMMODATE TOE-IN OF HAYBALES AND SILTATION FENCE).
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.



HAY BALE DETAIL
N.T.S.

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL.
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE A LAYER OF TOP SOIL AND SEED.
- IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING AND PRIOR TO ROUGH GRADING, TEMPORARY HAY BALES OR SILTATION FENCES AND BALED HAY EROSION CHECKS SHALL BE PLACED AT THE LIMITS OF CONSTRUCTION SHOWN ON PLAN AND ADDITIONAL AREAS IF REQUIRED.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED AND MAINTAINED ON A REGULAR BASIS DURING CONSTRUCTION, AND PROMPTLY FOLLOWING STORMS OR PERIODS OF RAINFALL.

EROSION AND SOIL STABILIZATION PROGRAM:

- TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, FIBER MULCH, OR PROTECTIVE COVERS SUCH AS FABRIC MATS.
- ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
- TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL, STONES, ROOTS, LUMPS, TREE LIMBS, TRASH OR DEBRIS AND SHALL CONFORM WITH RIDOT STANDARD SPECIFICATIONS.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS OF APPLICATION WITH APPROPRIATE INOCULUM FOR EACH VARIETY. LIME AND FERTILIZER SHALL BE APPLIED TO UPGRADE EXISTING CONDITIONS AS NECESSARY. THE GRASS SEED SHALL CONFORM TO RIDOT SPECIFICATIONS AND BE PLANTED ACCORDING TO RIDOT STANDARD SPECIFICATIONS 1.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR OF PLANTING.
- ALL FILL SHALL BE CLEAN AND THOROUGHLY COMPACTED UPON PLACEMENT IN CONFORMANCE WITH RIDOT STANDARD SPECIFICATIONS.
- SLOPES SHALL NOT REMAIN EXPOSED FOR MORE THAN 15 DAYS. SLOPES NOT PROTECTED BY SEEDING PRIOR TO OCTOBER 15TH SHALL BE PROTECTED USING OTHER TEMPORARY MEANS SUCH AS HAY, STRAW, FIBER MULCH, OR PROTECTIVE MATS, OR BURLAP, OR FIBERGLASS NETTING AS DIRECTED BY THE ENGINEER. THESE TEMPORARILY STABILIZED SLOPES SHALL BE SEEDED UPON COMMENCEMENT OF THE NEXT PLANTING SEASON.
- HAY AND STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2,000 POUNDS PER ACRE.

SEDIMENTATION CONTROL PROGRAM:

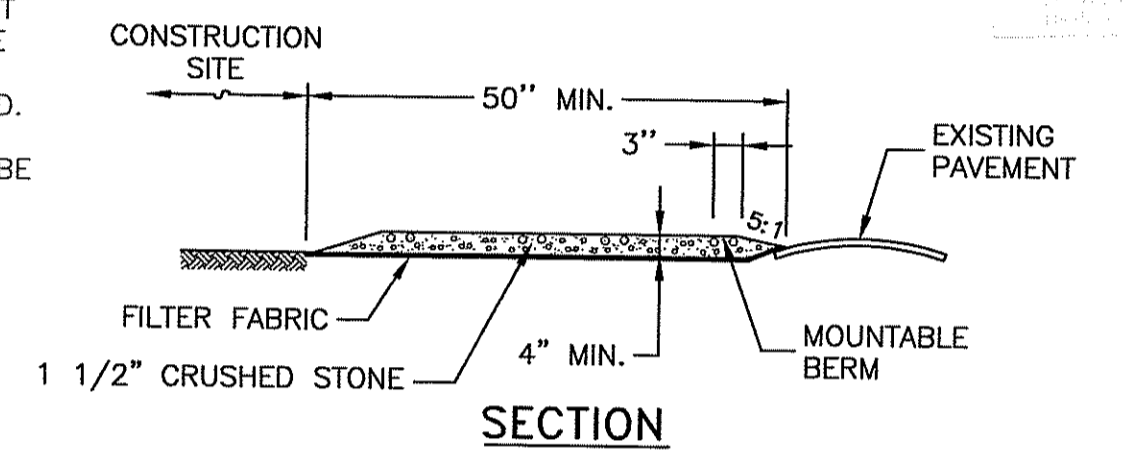
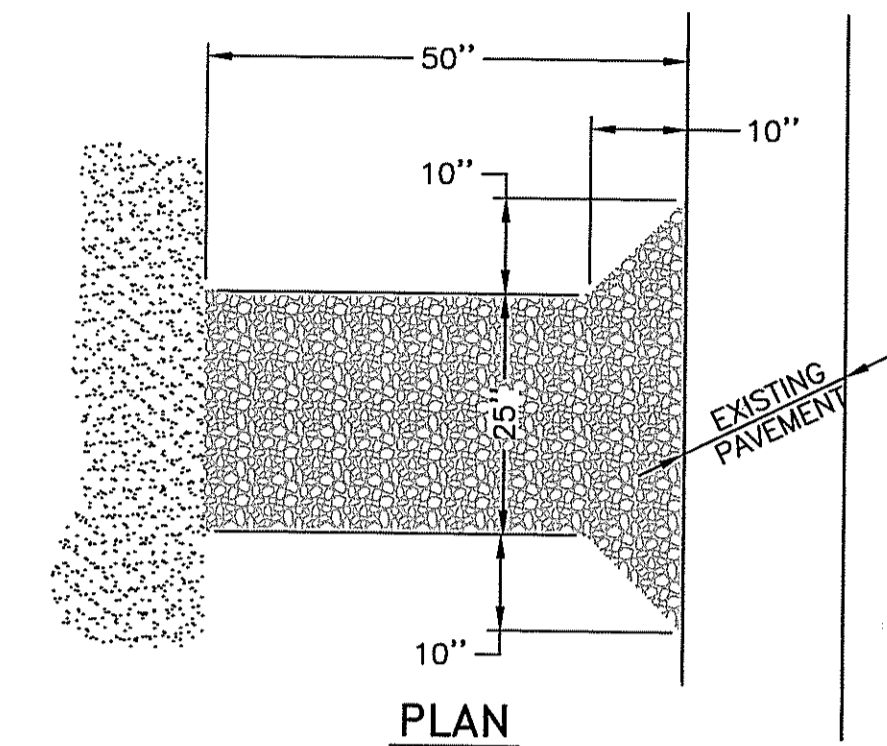
- TEMPORARY HAY BALES OR SILTATION FENCES ARE TO BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS. IN ADDITION TO THE LINE OF BALES AT THE LIMIT OF CONSTRUCTION, TEMPORARY BARRIERS SHALL BE CONSTRUCTED AT THE TOE OF ALL DISTURBED (CUT OR FILL) SLOPES UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED.
- CARE SHALL BE TAKEN NOT TO PLACE REMOVED SEDIMENTS WITHIN THE PATH OF THE EXISTING, NEWLY CREATED, OR PROPOSED AREAS THAT ARE OR MAY BE SUBJECTED TO STORMWATER FLOW.
- ALL DISTURBED AREAS THAT ARE SUBJECT TO EROSION, EITHER NEWLY FILLED, OR EXCAVATED ARE TO BE PROTECTED. ACCEPTABLE METHODS OF PROTECTION ARE STONE RIP RAP OR SEEDING WITH FIBER MULCH PROTECTION. ANY CULVERTS OR DRAINAGE SWALES DISCHARGING TO A WATERWAY OR AREA SUBJECT TO STORM FLOWAGE SHALL BE PROTECTED WITH A RIP RAP SPLASH PAD.
- BALED HAY CHECK DAMS ARE TO BE PLACED AROUND EXISTING AND NEWLY CONSTRUCTED CATCH BASINS AND MAINTAINED UNTIL EITHER SOIL STABILIZATION IS SATISFACTORY OR PAVING IS COMPLETED.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- ADDITIONAL SEDIMENT CONTROL MEASURES SHALL BE PLACED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, LOCAL OR STATE ENVIRONMENTAL OFFICIAL.

SLOPE STABILIZATION AND VEGETATION:

- THE REMOVAL OF EXISTING VEGETATION IN THE SITE SHALL BE MINIMIZED.
- A LINE OF STAKED HAY BALES AND SILTATION FENCE SHALL BE PLACED AT THE TOE OF ALL DISTURBED SLOPES AND MAINTAINED AS A SEDIMENT BARRIER UNTIL THE SLOPES ARE STABILIZED WITH GRASS.
- VEGETATION REMOVED MAY BE SHREDDED AND CHIPPED ON SITE FOR USE AS MULCH, OR IT MAY BE REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
- DISTURBED AREAS SHALL BE RESEED WITH A CONSERVATION SEED MIX.

STABILIZED CONSTRUCTION ENTRANCE NOTES

- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FEET MINIMUM.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. A BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.



STABILIZED CONSTRUCTION ENTRANCE/EXIT
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 MAR 17 2010 FILE # 08-0356
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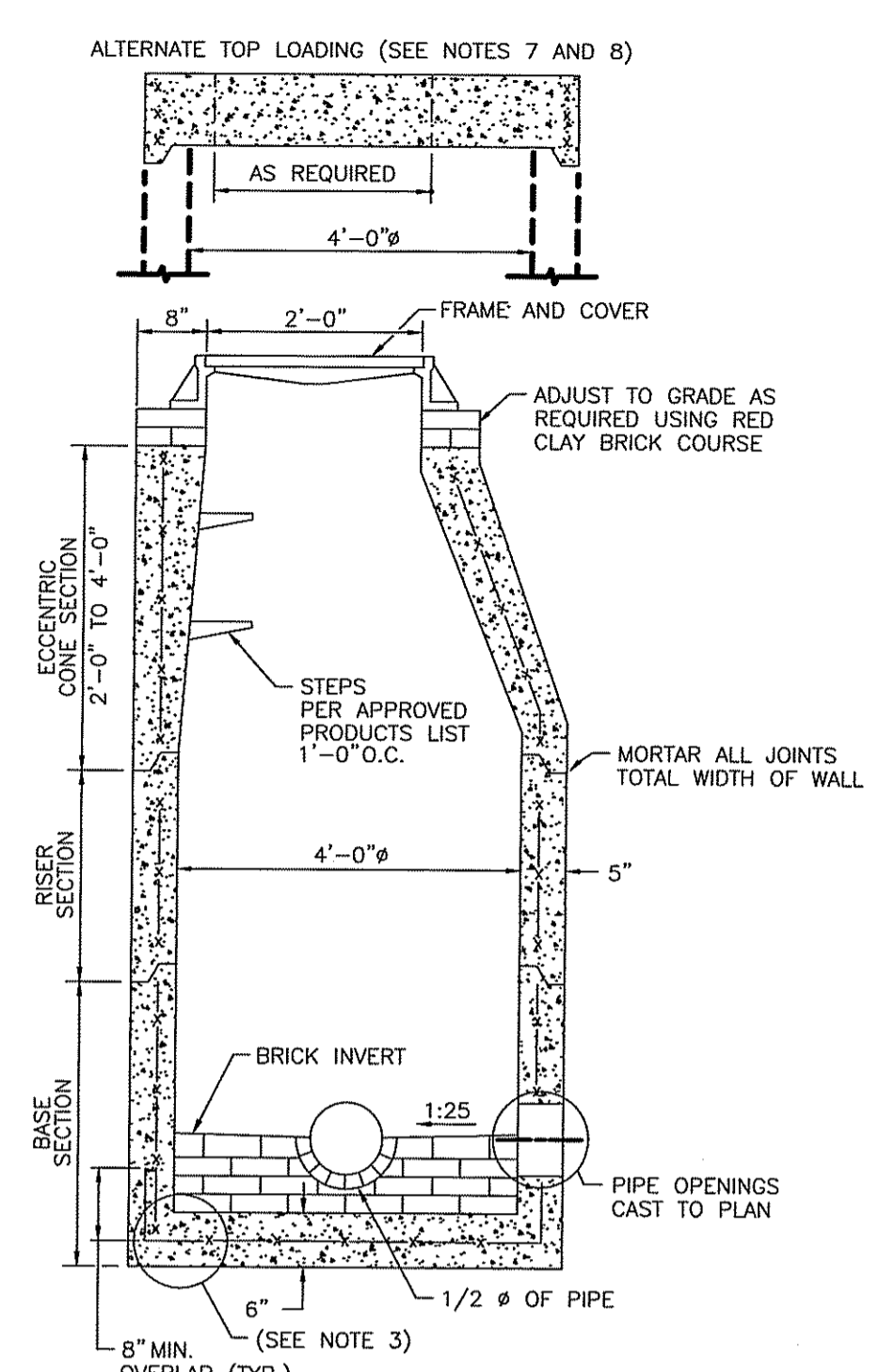
Signature

TODD GREENE
No. 8567
PROFESSIONAL ENGINEER
CIVIL

PERMITTING ONLY
NOT FOR CONSTRUCTION

1	RIDEM RE-SUBMISSION	CRD	01/20/10
NO.	ISSUE/DESCRIPTION	BY	DATE
RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND			
RIDEM FRESH WATER WETLAND APPLICATION DETAIL SHEET			
PROJ MGR:	IR	REVIEWED BY:	EAS
DESIGNED BY:	RAC	DRAWN BY:	CRD
DATE:	OCT. 2009	PROJECT NO.:	33415.00
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140		PREPARED FOR:
CHECKED BY:	IR	SCALE:	AS NOTED
FIGURE	12		
REVISION NO.:	1	SHEET NO.:	12 of 15

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- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN./LIN. FT. MINIMUM.
 3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 4. ONE POUR MONOLITHIC BASE SECTION.
 5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-20 LOADING (SEE STD. 4.7.2).
 8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST 4'-0" ROUND MANHOLE
NOT TO SCALE

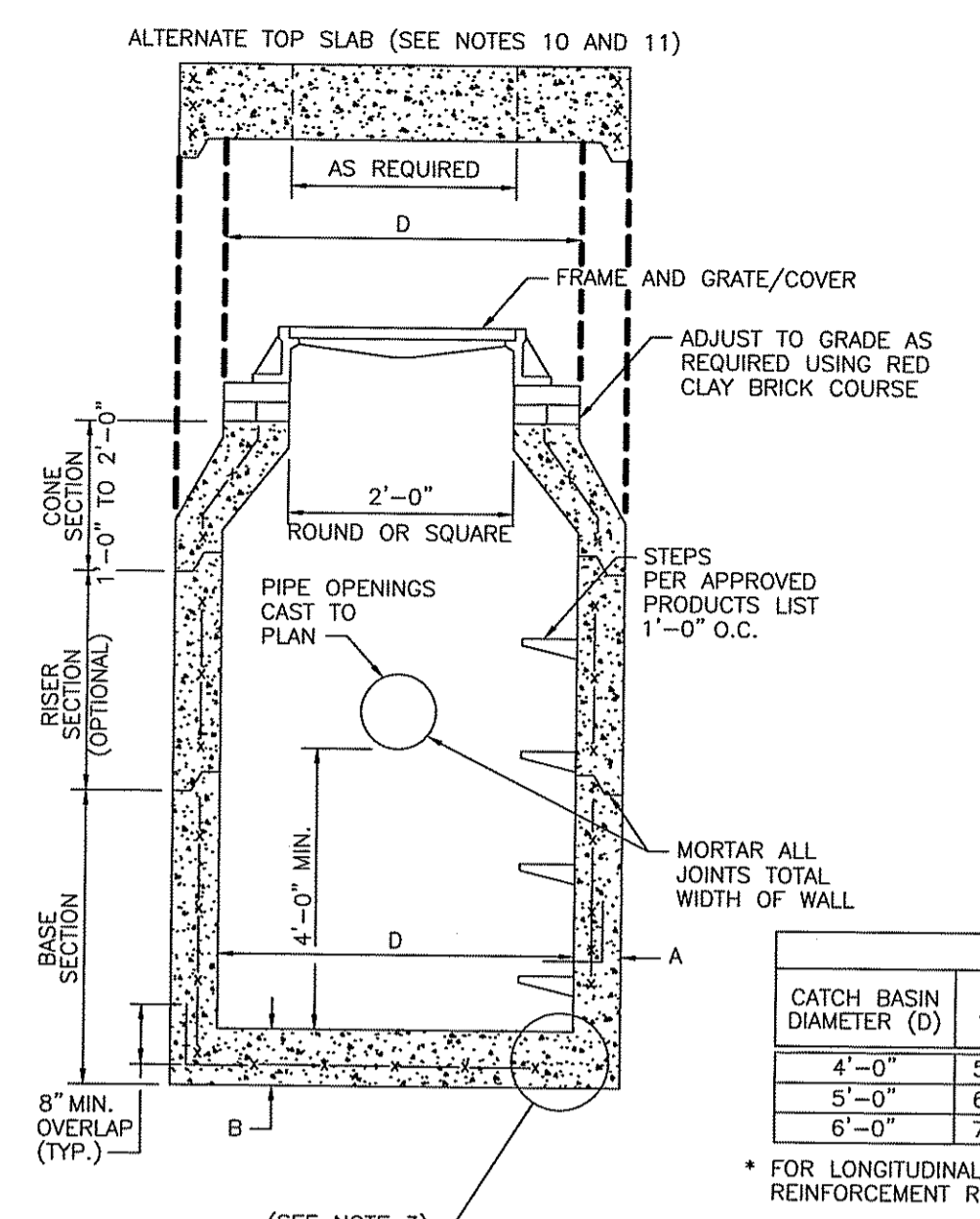
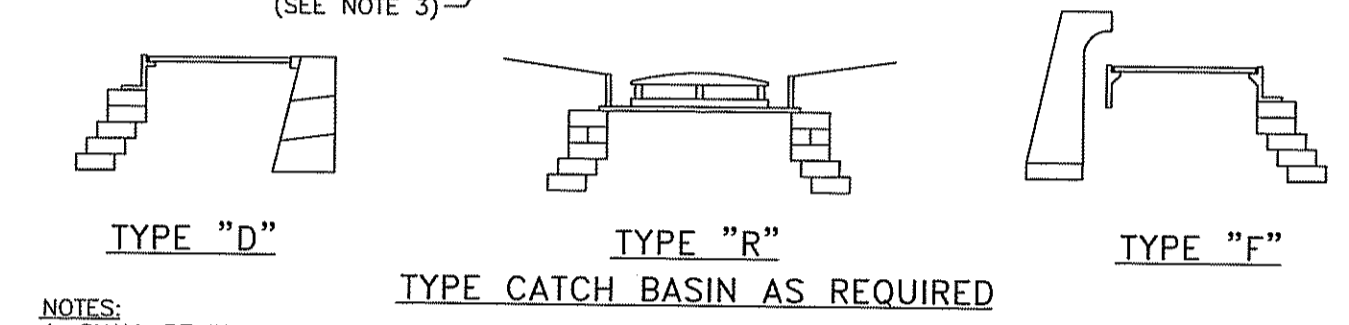


TABLE 1

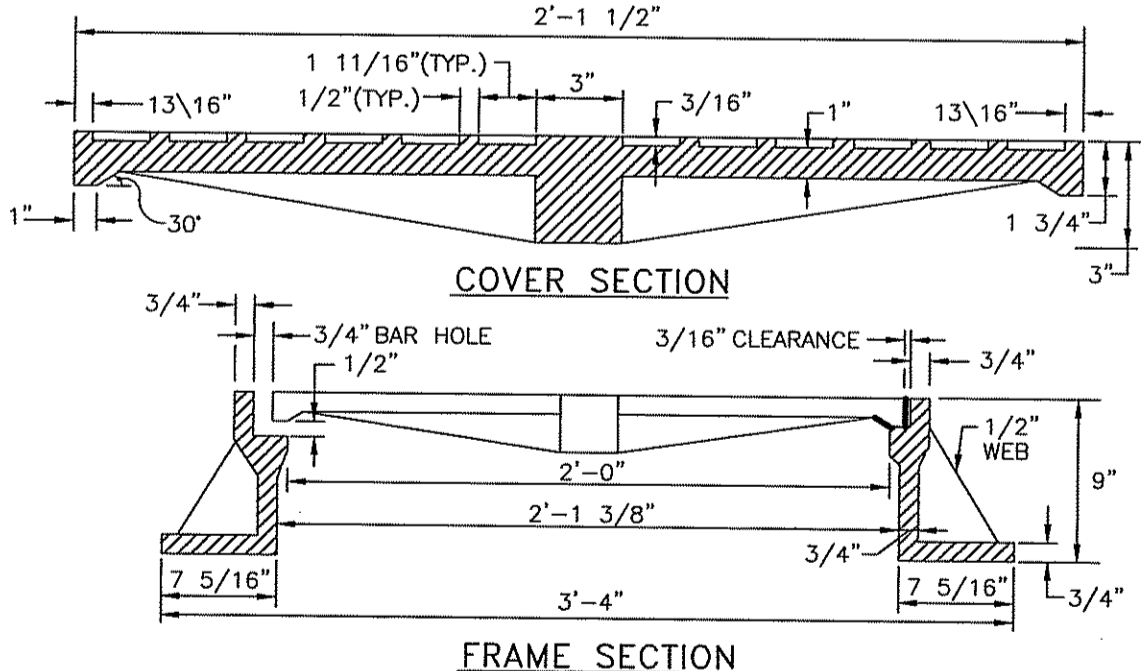
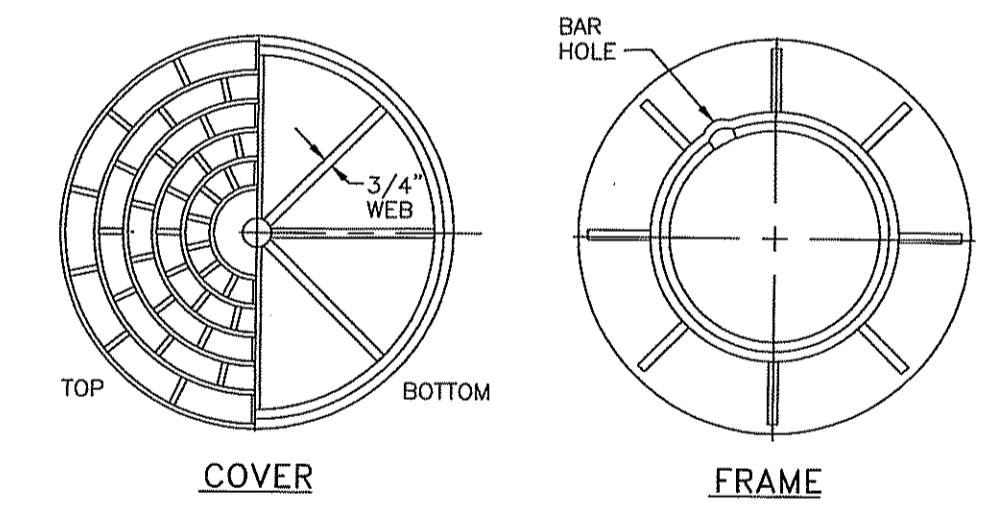
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



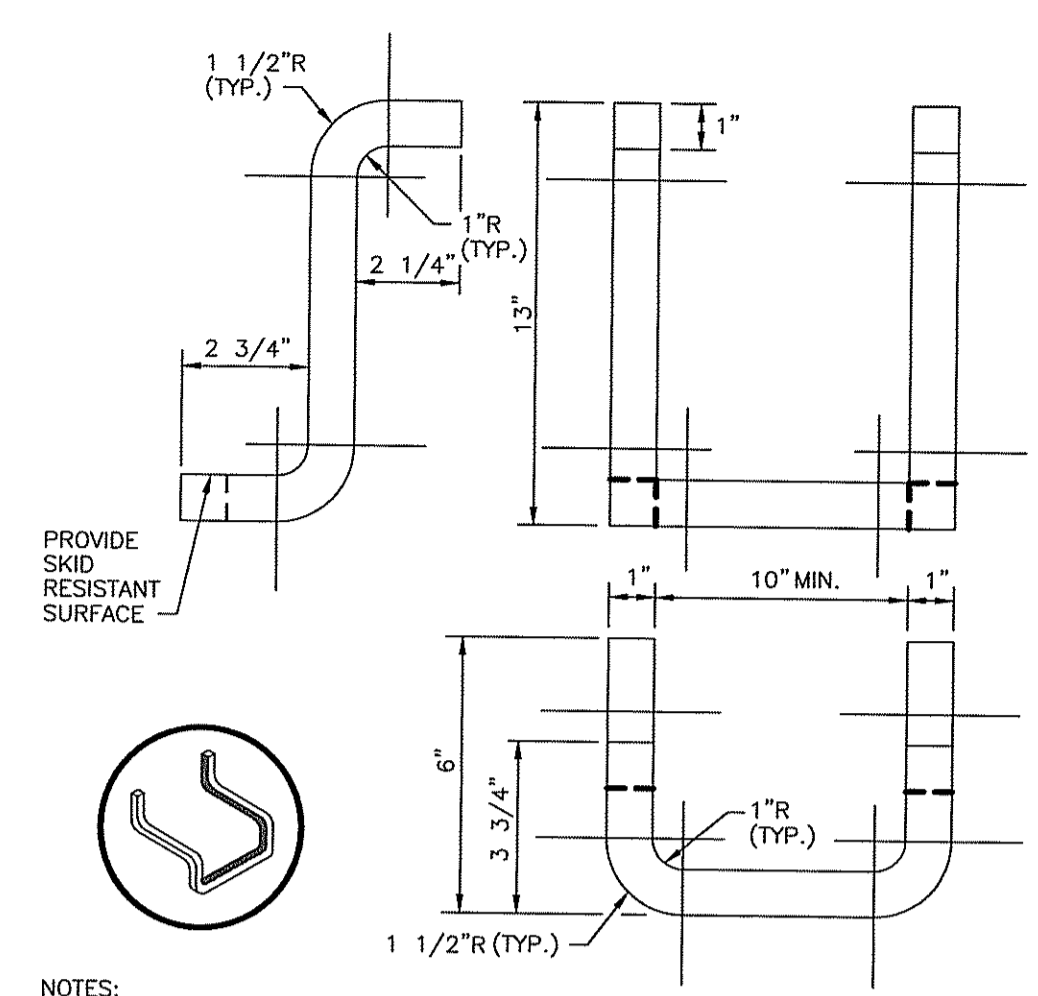
- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 5. ONE POUR MONOLITHIC BASE SECTION.
 6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-20 LOADING (SEE STD. 4.7.2).
 11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
NOT TO SCALE



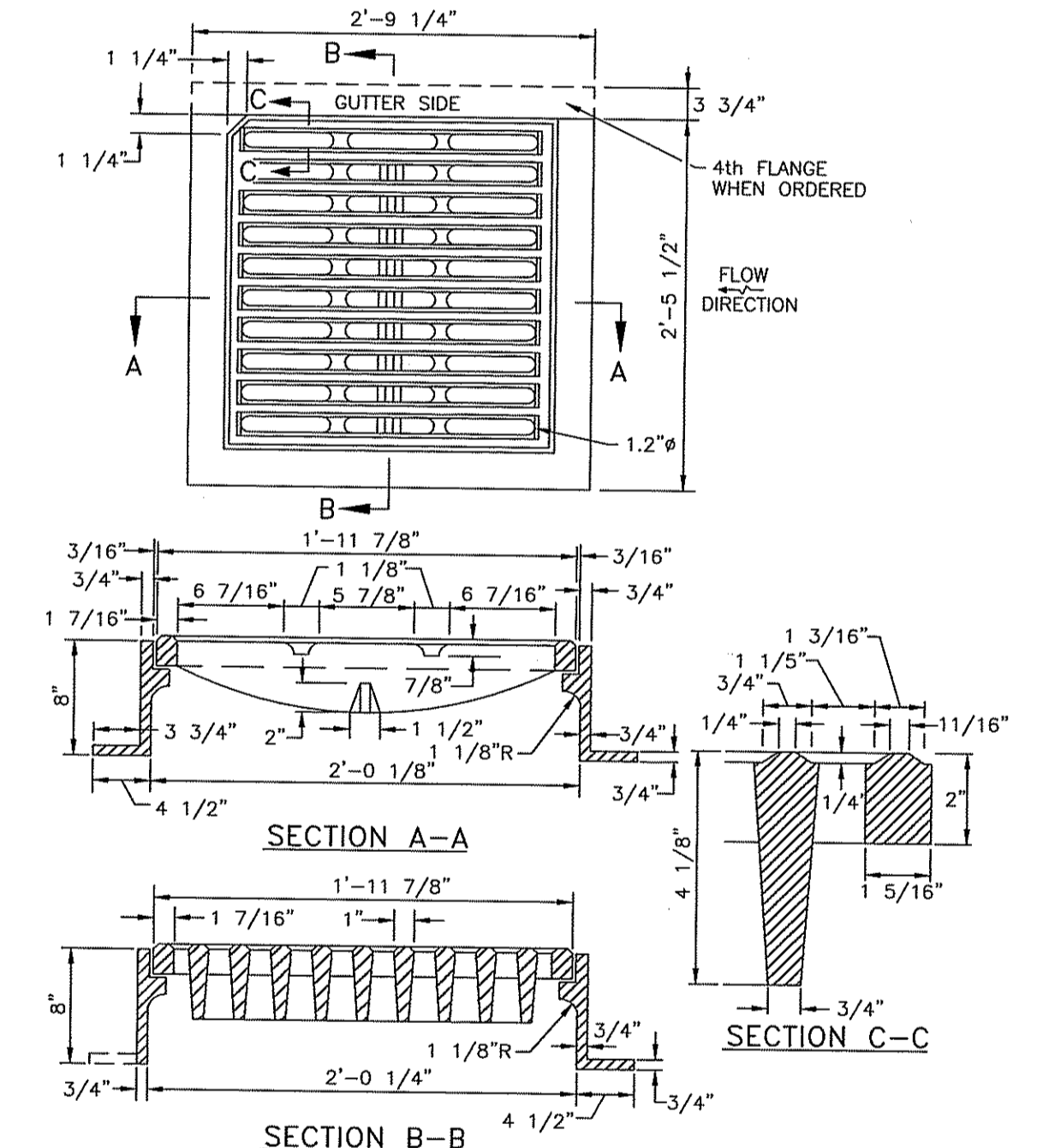
- NOTES:
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
 2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.
 3. MUST BE H20 RATED.

HEAVY-DUTY ROUND FRAME AND COVER
NOT TO SCALE



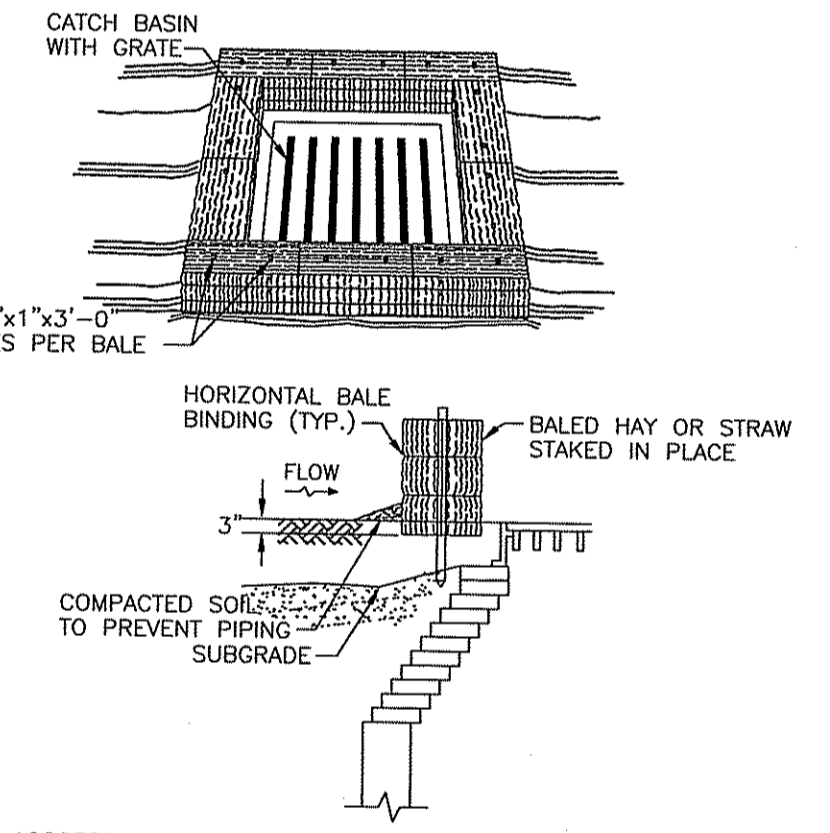
- NOTES:
1. STEPS SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
 2. GROSS SECTION AREA MAY BE REDUCED UPON SUBMISSION OF CERTIFIED LOAD TESTS.
 3. STOCK SHOWN IS 1" SQUARE WHICH MAY BE REPLACED BY 1" DIAMETER.

CATCH BASIN AND MANHOLE STEP
NOT TO SCALE



- NOTES:
1. MUST BE H20 RATED.

SQUARE FRAME AND GRATE (BICYCLE SAFE)
NOT TO SCALE



- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 209 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THIS INLET PROTECTION CAN ALSO BE USED WHEN CONSTRUCTION SEQUENCING REQUIRES A CATCH BASIN TO BE EXPOSED TO SEDIMENT FROM THE SUBGRADE. THIS WILL BE ACHIEVED BY INSTALLING THE BALED HAY AS SHOWN ON THIS DETAIL INTO THE SUBGRADE.
 3. THE PERIMETER CONFIGURATION OF THE BALED HAY WILL VARY DEPENDING ON THE PARTICULAR TYPE OF CATCH BASIN INLET BEING CONSTRUCTED. THE ENGINEER WILL PROVIDE SPECIFIC DIRECTION IN SUCH CASES.

BALED HAY CATCH BASIN INLET PROTECTION
NOT TO SCALE



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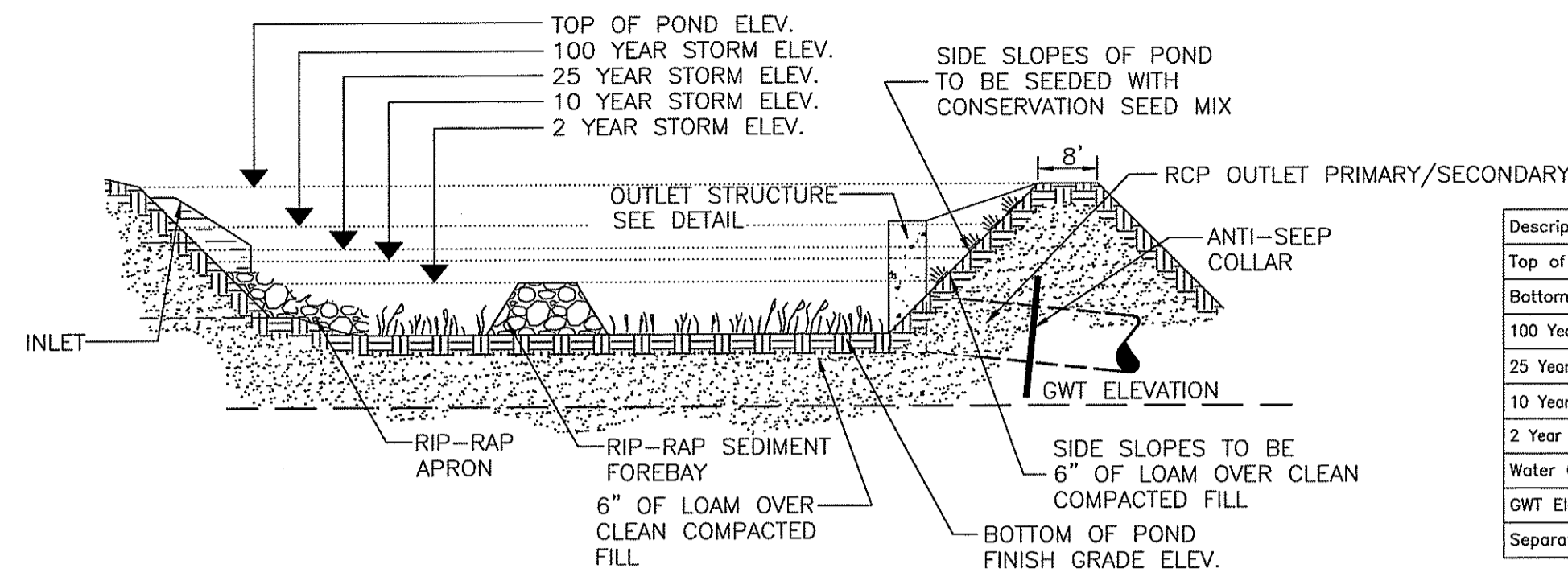
Christopher D. Weneck

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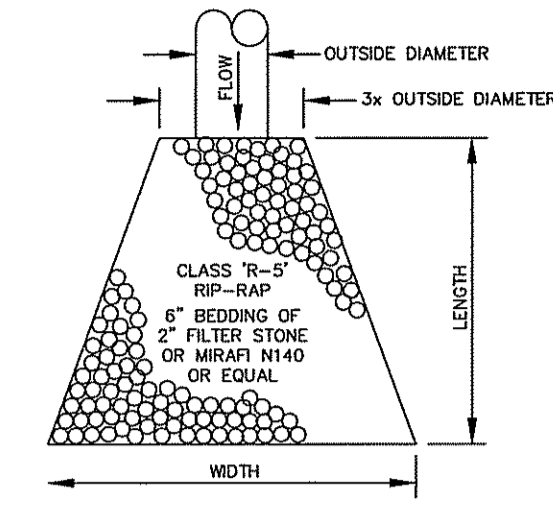
1	RIDEM RE-SUBMISSION	CRD	01/20/10
NO.	ISSUE/DESCRIPTION	BY	DATE
RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND			
RIDEM FRESH WATER WETLAND APPLICATION DETAIL SHEET			

APPROVED:	PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 650 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140	PREPARED FOR: RHODE ISLAND RESOURCE RECOVERY CORPORATION CENTRAL LANDFILL JOHNSTON, RHODE ISLAND
PROJ MGR: IR	REVIEWED BY: EAS	CHECKED BY: IR
DESIGNED BY: RAC	DRAWN BY: CRD	SCALE: AS NOTED
DATE: OCT. 2009	PROJECT NO. 33415.00	REVISION NO. 1
		FIGURE 13
		SHEET NO. 13 of 15



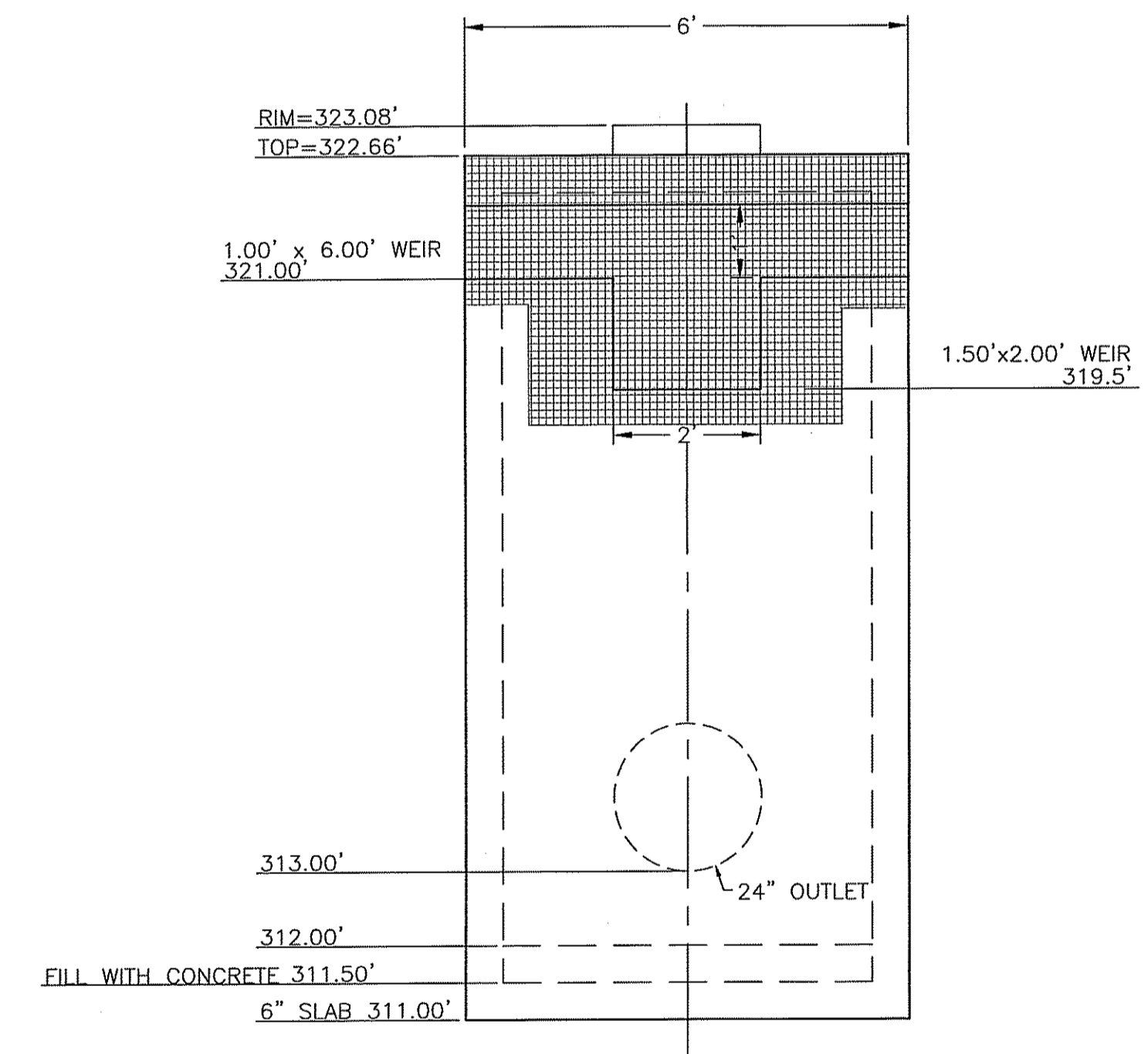
INFILTRATION/DETENTION POND & WATER QUALITY BASIN TYPICAL CROSS SECTION
NOT TO SCALE

Description	PR-BASIN
Top of Pond Elevation	322.00
Bottom of Pond	317.00
100 Year Storm Elevation	320.82
25 Year Storm Elevation	320.49
10 Year Storm Elevation	320.26
2 Year Storm Elevation	319.72
Water Quality Elevation	319.00
GWT Elevation	310.50
Separation Provided	6.5'

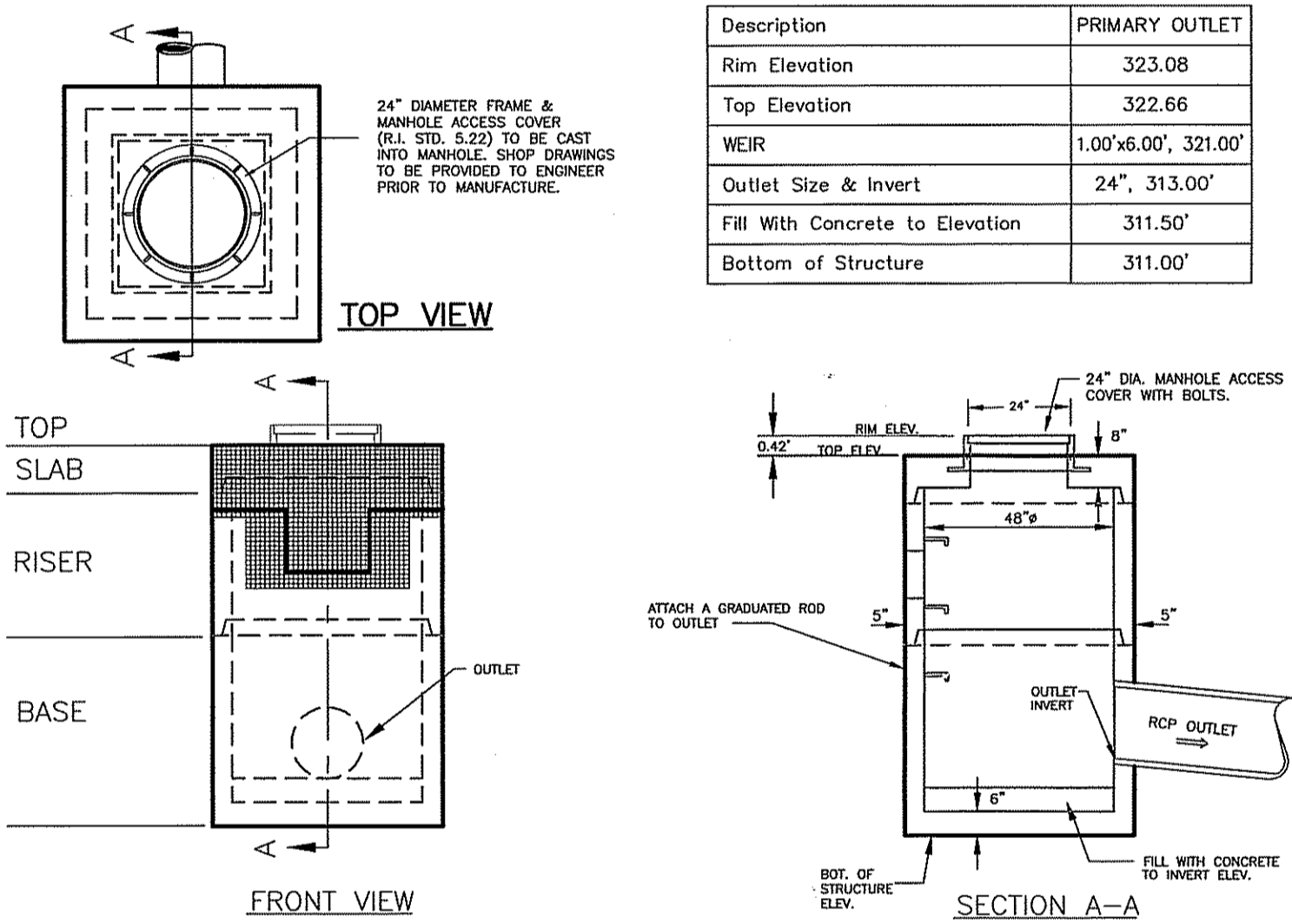


Location	Length	Width
Basin Inlet 1	25'	31'
Basin Inlet 2	15.75'	6'
Basin Outlet	24'	18'

RIP-RAP APRON DETAIL
NOT TO SCALE



OUTLET STRUCTURE
NOT TO SCALE



6' SQUARE OUTLET STRUCTURE
NOT TO SCALE

Description	PRIMARY OUTLET
Rim Elevation	323.08
Top Elevation	322.66
WEIR	1.00'x6.00', 321.00'
Outlet Size & Invert	24\", 313.00'
Fill With Concrete to Elevation	311.50'
Bottom of Structure	311.00'

BMP	Frequency	Activity
Catch basins	Semi-annually for first year, yearly thereafter.	Visual inspection for debris accumulation, structural integrity, and damage.
	When two thirds of available sump capacity is filled; at a minimum every 5 years.	Removal of trash, litter, and other debris.
	When two thirds of available sump capacity is filled; at a minimum every 5 years.	Removal of accumulated sediments within sump.
	Within 30 days of deficiency report, or immediately if necessary to avert failure.	Structural repairs.
Water quality hoods	Semi-annually for first year, yearly thereafter.	Visual inspection for structural integrity.
	Within 30 days of deficiency report, or immediately if necessary to avert failure.	Structural repairs.
Detention Basin	Quarterly.	Removal of debris from trash rack.
	Semi-annually.	Grassed areas checked for erosion problems; problem areas stabilized and seeded immediately.
	Yearly.	Mow basin (bottom and side slopes) at least once during growing season, after August 15. Visual inspection of pond, including inlets and outlet. Inspect structural integrity of pond.
	Minimum every ten years.	Removal of accumulated sediments from pond bottom. Also remove sediments at end of first year of operation.
	When rate of infiltration decreases, i.e., standing water present in pond more than 72 hours after a storm; minimum every 10 years.	Till and reseed basin bottom.
Manholes	Semi-annually for first year, yearly thereafter.	Visual inspection for debris accumulation, structural integrity and damage.
	When two thirds of available capacity is filled; at a minimum every 5 years.	Removal of accumulated sediments within sump.

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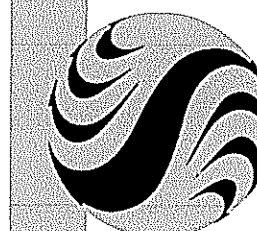
NO.	ISSUE/DESCRIPTION	BY	DATE
1	RIDEM RE-SUBMISSION	CRD	01/20/10

RHODE ISLAND RESOURCE RECOVERY CORPORATION
CENTRAL LANDFILL
JOHNSTON, RHODE ISLAND

RIDEM FRESH WATER WETLAND APPLICATION
DETAIL SHEET

PROJ MGR:	IR	REVIEWED BY:	EAS	CHECKED BY:	IR	FIGURE
DESIGNED BY:	RAC	DRAWN BY:	CRD	SCALE:	AS NOTED	14
DATE:	OCT. 2009	PROJECT NO.:	33415.00	REVISION NO.:	1	

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Consultants

Legend

JAN 27 2010

Notes

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Ernestine D. Wernick

Revision

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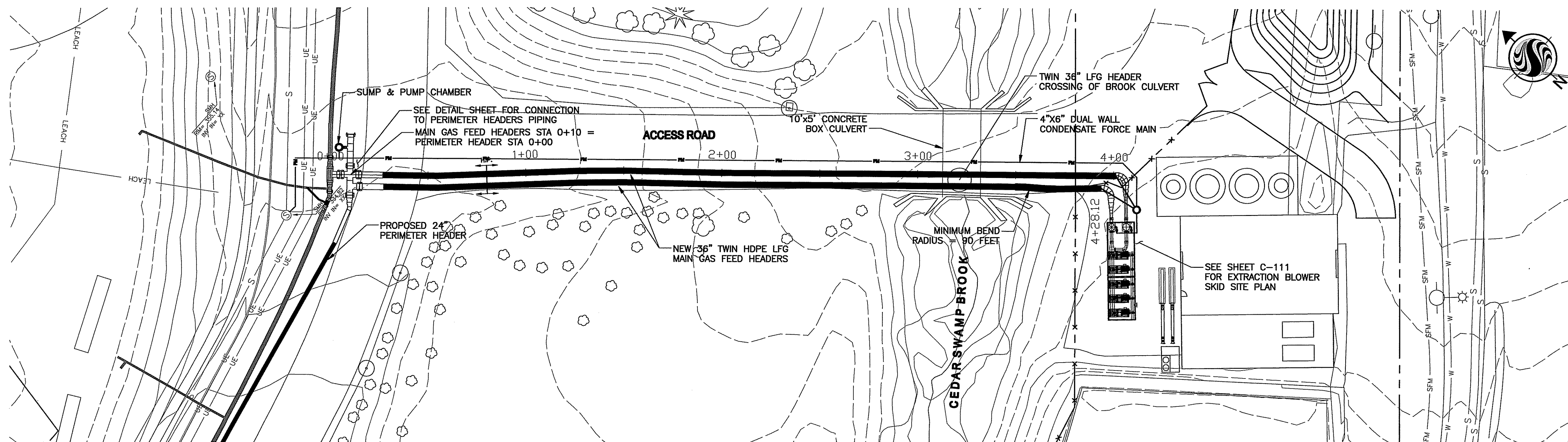
Client/Project
RHODE ISLAND GENCO, LLC

RECONFIGURED LFG COLLECTION STAGES 1 - 3
 Johnston, Rhode Island

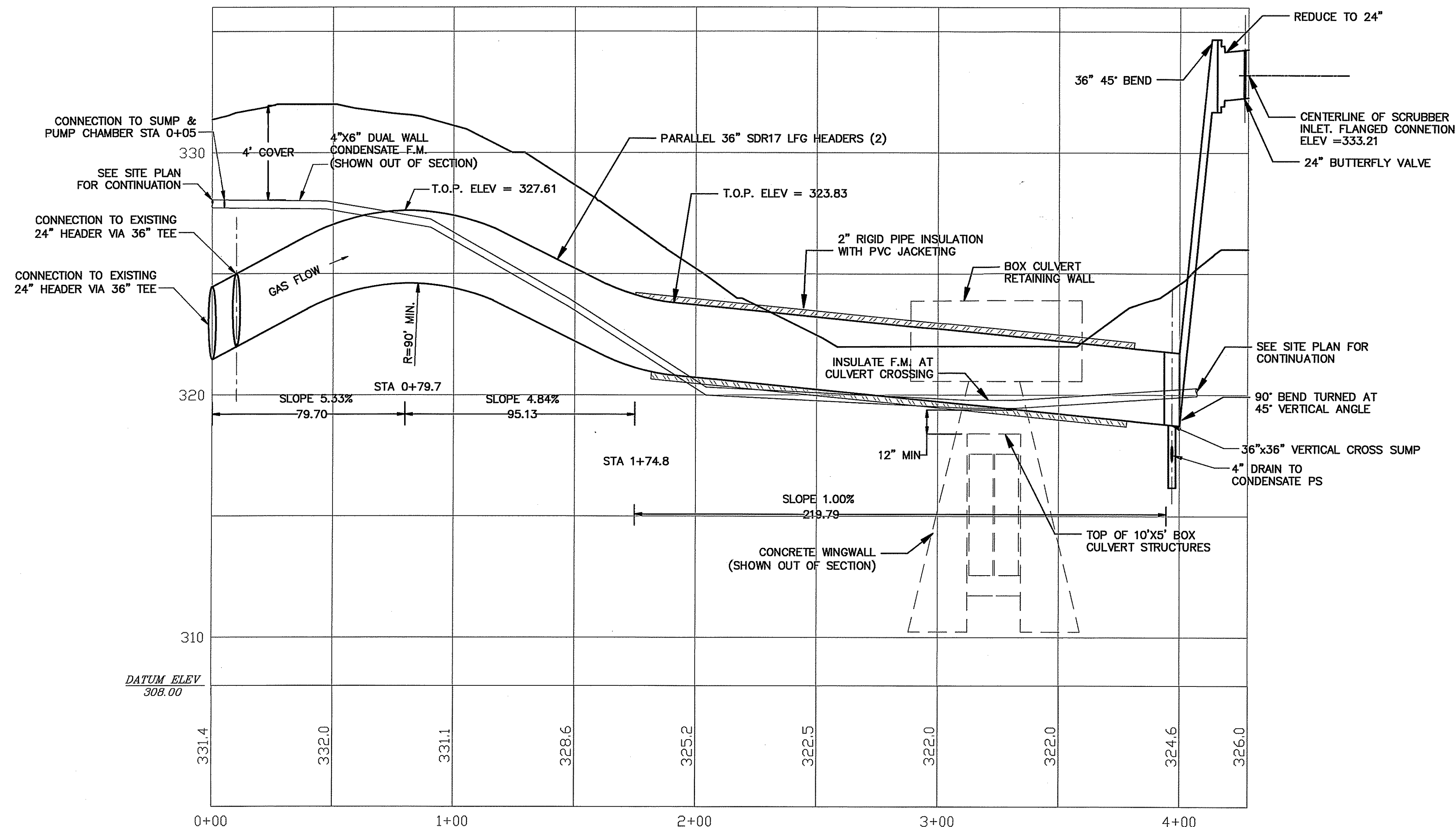
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MAIN GAS FEED HEADER PLAN AND PROFILE STA 0+00 - 4+28

Project No. 195111940 Scale AS NOTED

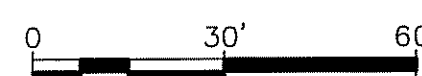
Drawing No. C-107 Sheet 15 Revision 0



MAIN FEED GAS HEADERS PLAN
 1"=30'



MAIN GAS FEED HEADERS PROFILE
 HORIZ.: 1"=30'
 VERT.: 1"=3'



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 JANUARY 2010