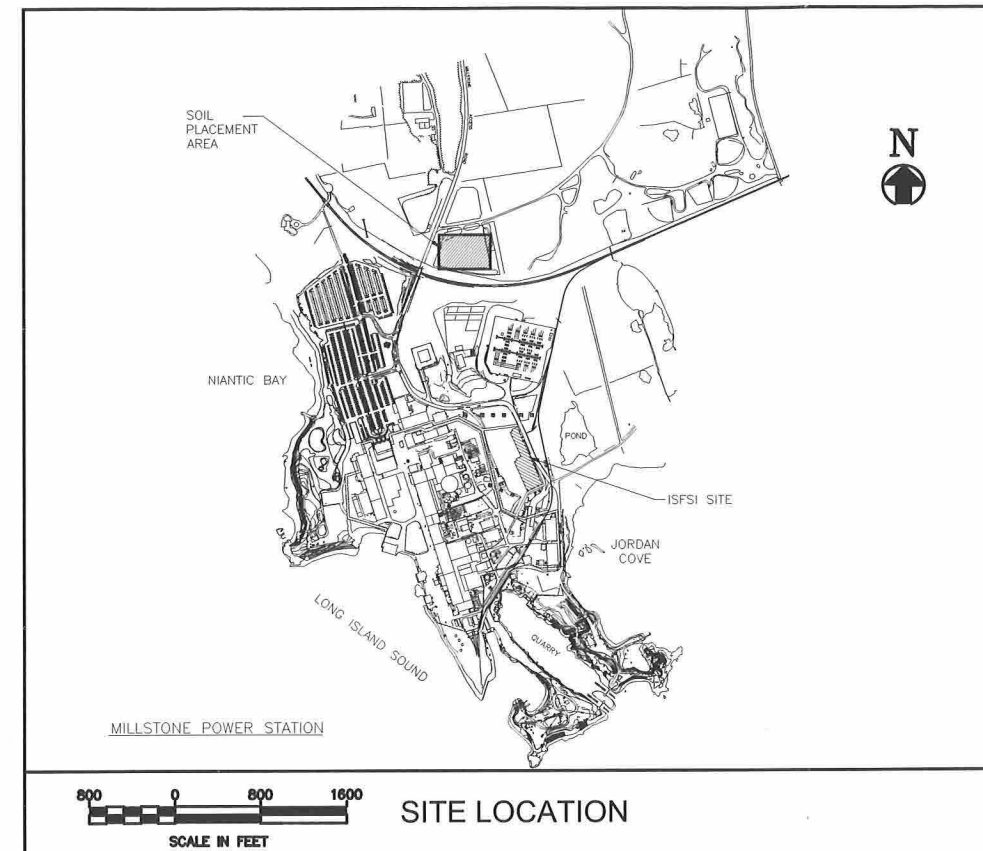
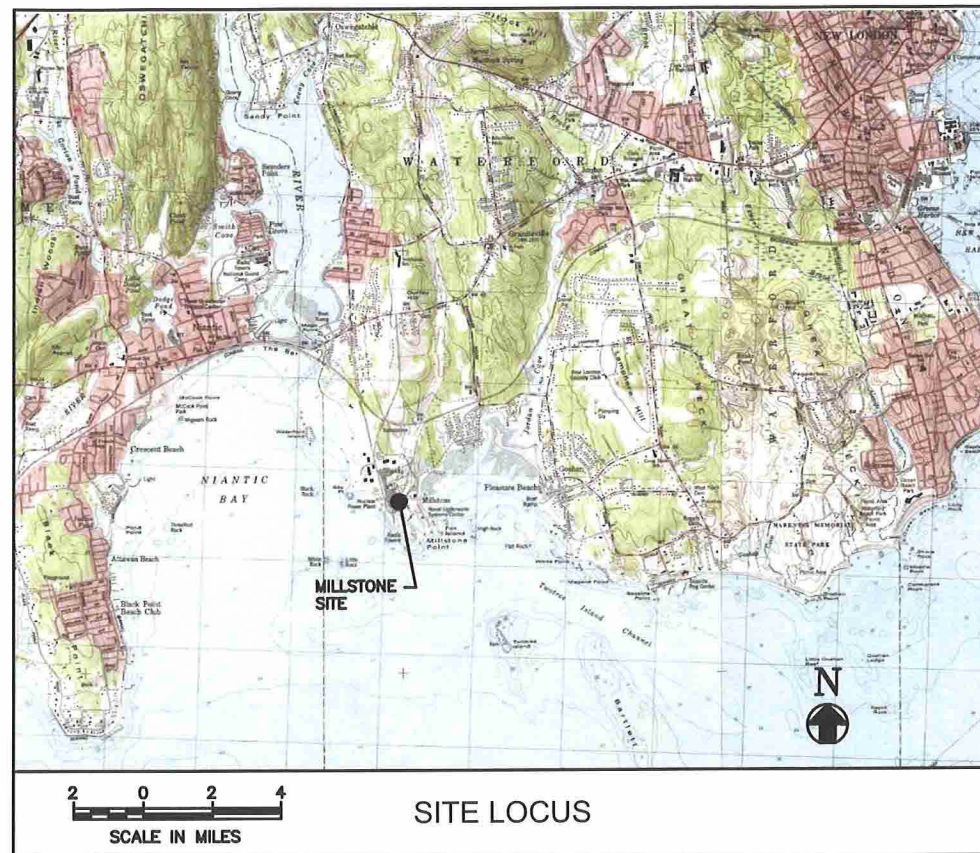


# MILLSTONE POWER STATION



LIST OF DRAWINGS	
NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS PLAN (PHASE -1)
3	REVISED GRADING PLAN AND DRAINAGE SYSTEM (FULL BUILD-OUT)
4	STORMWATER DRAINAGE DETAILS
5	EROSION AND SEDIMENT CONTROL PLAN (FULL BUILD-OUT)
6	EROSION AND SEDIMENT CONTROL DETAILS
7	SOIL PLACEMENT AREA PLAN AND NOTES

## GENERAL NOTES:

1. VERTICAL DATUM IS NATIONAL GEODETIC VERTICAL DATUM OF 1929.
2. 250 FOOT GRID BASED ON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM.
3. BASE PLAN USED FOR ALL DRAWING IS FROM DOMINION NUCLEAR CONNECTICUT DATED FEBRUARY 18, 2004 AND TITLED "25205 - 59007, ISFSI FINAL GRADING AND DRAINAGE PLAN. BASE PLAN WAS PROVIDED ELECTRONICALLY BY DOMINION AS CAD FILE 59007. SCALE 1" = 40'
4. OTHER MAP REFERENCES INCLUDE: "NORTHEAST NUCLEAR ENERGY CO., MILLSTONE STATION, SITE PLAN." SCALE 1" = 100', DATED 08/03/99 AND "THE CONNECTICUT LIGHT & POWER CO., BERLIN, CONNECTICUT" PROJECT: MILLSTONE POINT, SCALE: 1" = 200', SHEET 1 OF 2 AND 2 OF 2"
5. CERTAIN EXISTING CONDITIONS, INCLUDING CERTAIN UTILITIES, ARE NOT INDICATED ON THE PLANS FOR CLARITY AND SECURITY REASONS. THESE PLANS ARE NOT TO BE USED FOR UTILITY CLEARANCE PURPOSES.
6. POTENTIAL UTILITY INTERFERENCES WILL BE CONFIRMED PRIOR TO CONSTRUCTION. THE ALIGNMENT OF THE PROPOSED OR EXISTING UTILITIES MAY BE ADJUSTED TO AVOID IDENTIFIED INTERFERENCES.

THESE DRAWINGS ARE FOR THE PURPOSE OF CONNECTICUT SITING COUNCIL AND TOWN OF WATERFORD REVIEW.  
NOT FOR USE FOR CONSTRUCTION.

## REVISIONS TO ORIGINAL DESIGN

### Independent Spent Fuel Storage Installation (ISFSI)

### Dominion Nuclear Connecticut Inc.

### Waterford, Connecticut



NO.	ISSUE/DESCRIPTION	BY	DATE
MILLSTONE POWER STATION WATERFORD, CONNECTICUT			
COVER SHEET			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists ONE EDGEWATER DRIVE WATERTOWN, MA 02157 (781) 278-3700		PREPARED FOR: DOMINION NUCLEAR CONNECTICUT, INC	
PROJ MGR: DML	REVIEWED BY: PHB	CHECKED BY: DCS	DRAWING NO.
DESIGNED BY: KDH	DRAWN BY: KDH	SCALE: AS SHOWN	<b>1</b>
DATE: 04/12/2012	PROJECT NO. 171138.00	REVISION NO.	SHEET NO.

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REFERENCES:

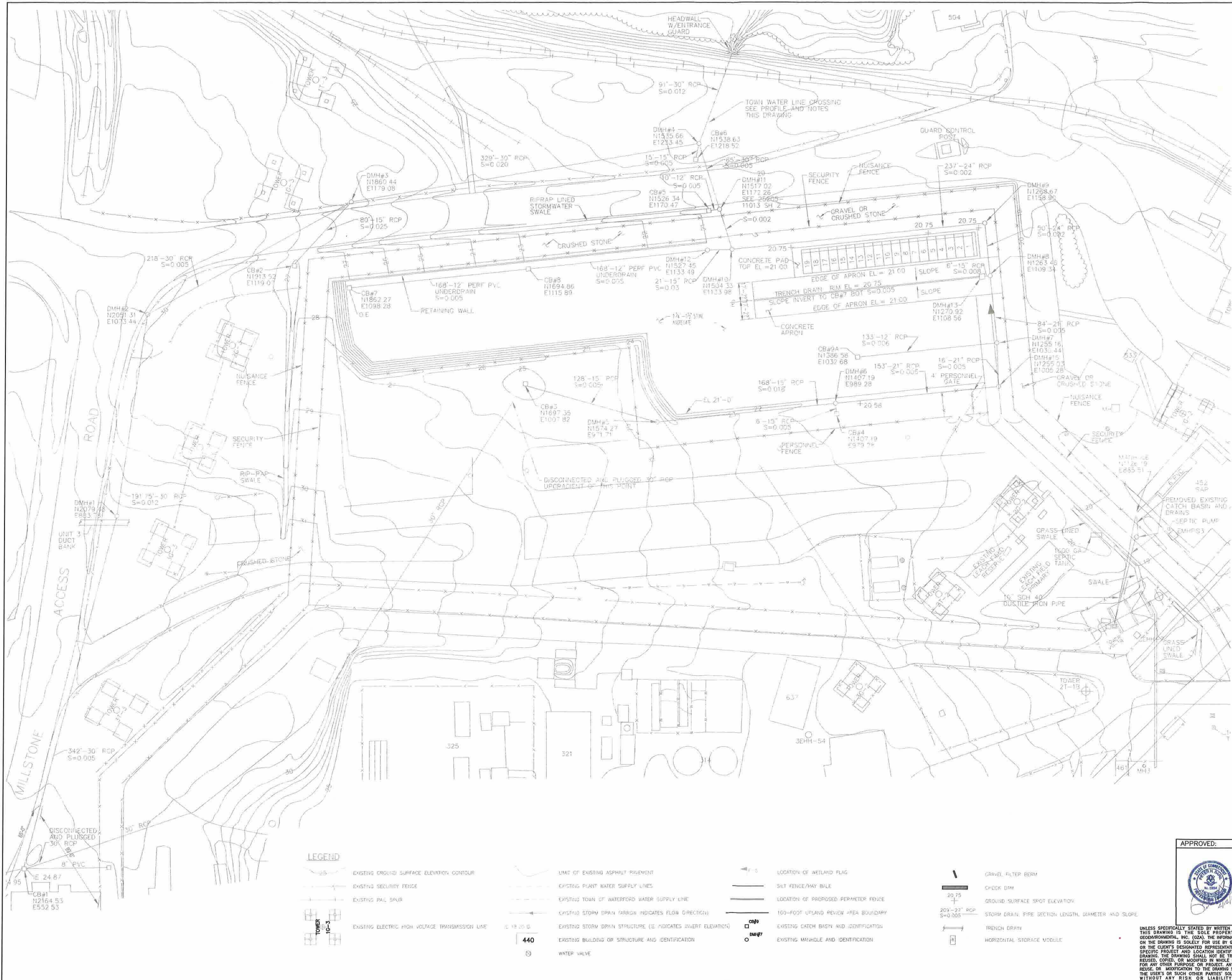
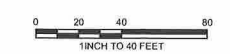
1 25205-59007, ISFI FINAL GRADING & DRAINAGE PLAN DATED 02/18/04, "PROVIDED ELECTRONICALLY BY DOMINION AS CAD FILE 59007"

NOTES:

1 ELEVATIONS SHOWN IN NGVD29 DATUM

DMH#1 RIM=30.50 INV IN (CB#1)=23.82 INV OUT (DMH#2)=23.82	DMH#11 RIM=20.50 INV IN (DMH#10)=14.31 INV IN (CB#5)=16.45 INV OUT (DMH#4)=12.65
DMH#2 RIM=30.10 INV IN (DMH#1)=19.99 INV OUT (DMH#3)=19.99	DMH#12 RIM=20.75 INV IN (CB#5)=14.70 INV OUT (DMH#10)=14.47
DMH#3 RIM=27.50 INV IN (DMH#2)=18.90 INV IN (CB#2)=20.00 INV OUT (DMH#4)=18.90	DMH#13 RIM=20.75 INV IN (TRENCH)=17.42 INV OUT (CB#8)=15.75
DMH#4 RIM=19.70 INV IN (DMH#3)=12.32 INV IN (DMH#1)=12.32 INV IN (CB#4)=15.18 INV OUT=12.07	DMH#14 RIM=20.75 INV IN (TRENCH)=18.85 INV OUT (CB#8)=16.09
DMH#5 RIM=24.20 INV IN (CB#3)= 10.81 INV OUT (DMH#6)=19.81	DMH#15 RIM=21.00 INV IN (DMH#6)=15.30 INV OUT (DMH#7)=15.30
DMH#6 RIM=21.00 INV IN (DMH#5)=16.39 INV IN (CB#4)=16.39 INV OUT (DMH#5)=16.07	CB#1 RIM=30.95 INV IN (30")=24.95 INV IN (18")=24.87 INV OUT (DMH#1)=24.87
DMH#7 RIM=20.90 INV IN (DMH#5)=15.21 INV IN (DMH#4)=15.96 INV IN (DMH#3)=15.21	CB#2 RIM=26.50 INV OUT (DMH#3)=22.00
DMH#8 RIM=20.90 INV IN (DMH#7)=14.79 INV IN (DMH#3)=15.70 INV OUT (DMH#9)=15.05	CB#3 RIM=24.50 INV OUT (DMH#5)=20.25
DMH#9 RIM=20.75 INV IN (DMH#8)=14.97 INV OUT (DMH#10)=14.67	CB#4 RIM=20.70 INV OUT (DMH#6)=16.45
DMH#10 RIM=20.90 INV IN (DMH#9)=14.39 INV IN (DMH#12)=13.76 INV OUT (DMH#11)=13.39	CB#5 RIM=20.50 INV OUT (DMH#11)=16.50
	CB#6 RIM=19.50 INV OUT (DMH#4)=15.25
	CB#7 RIM=20.75 INV OUT (DMH#8)=15.75
	CB#8 RIM=20.75 INV OUT (DMH#7)=16.75
	CB#9A RIM=20.50 INV OUT (CB#12A)=16.50

DRAINAGE STRUCTURE SCHEDULE



LEGEND

- |  |   |  |   |  |   |  |   |
|--|---|--|---|--|---|--|---|
|  | EXISTING GROUND SURFACE ELEVATION CONTOUR         |  | LIMIT OF EXISTING ASPHALT PAVEMENT                            |  | LOCATION OF WETLAND FLAG                |  | GRAVEL FILTER BERM                                  |
|  | EXISTING SECURITY FENCE                           |  | EXISTING PLANT WATER SUPPLY LINES                             |  | SILT FENCE/HAY BALE                     |  | CHECK DAM   |
|  | EXISTING RAIL SPUR                                |  | EXISTING TOWN OF WATERFORD WATER SUPPLY LINE                  |  | LOCATION OF PROPOSED PERIMETER FENCE    |  | GROUND SURFACE SPOT ELEVATION                       |
|  | EXISTING ELECTRIC HIGH VOLTAGE TRANSMISSION LINE  |  | EXISTING STORM DRAIN STRUCTURE (E INDICATES INVERT ELEVATION) |  | 100-FOOT UPLAND REVIEW AREA BOUNDARY    |  | STORM DRAIN PIPE SECTION LENGTH, DIAMETER AND SLOPE |
|  | TOWER   |  | EXISTING STORM DRAIN STRUCTURE (E INDICATES INVERT ELEVATION) |  | EXISTING CATCH BASIN AND IDENTIFICATION |  | TRENCH DRAIN  |
|  | EXISTING BUILDING OR STRUCTURE AND IDENTIFICATION |  | EXISTING WATER VALVE  |  | EXISTING MANHOLE AND IDENTIFICATION     |  | HORIZONTAL STORAGE MODULE                           |

APPROVED:	NO.	ISSUE/DESCRIPTION	BY	DATE

**MILLSTONE POWER STATION**  
**WATERFORD, CONNECTICUT**  
 PREPARED BY: **GZA GeoEnvironmental, Inc.**  
 ENGINEERS AND SCIENTISTS  
 ONE ESCAPER DRIVE  
 NORTHWOOD, MASSACHUSETTS 02062  
 (978) 278-3000  
 PREPARED FOR:  
**DOMINION NUCLEAR**  
**CONNECTICUT INC.**

EXISTING CONDITIONS PLAN

PROJ MGR:	DML	REVIEWED BY:	PHB	CHECKED BY:	DCS	DRAWING
DESIGNED BY:	KDH	DRAWN BY:	KDH	SCALE:	AS SHOWN	<b>2</b>
DATE:	04/12/2012	PROJECT NO.:	171138.00	REVISION NO.:	0	

**LEGEND:**

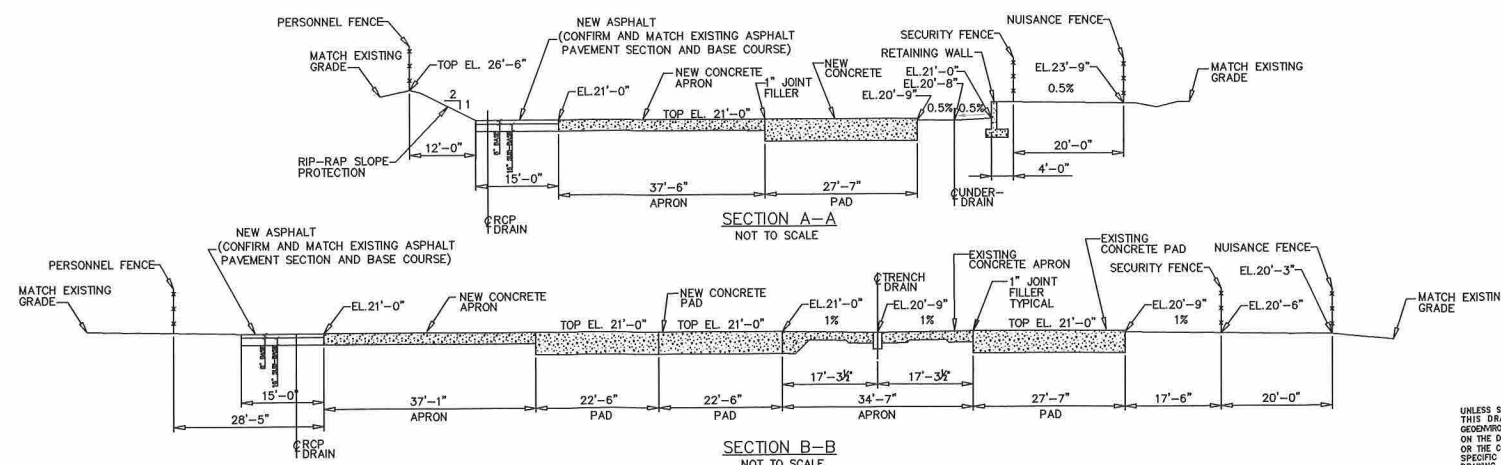
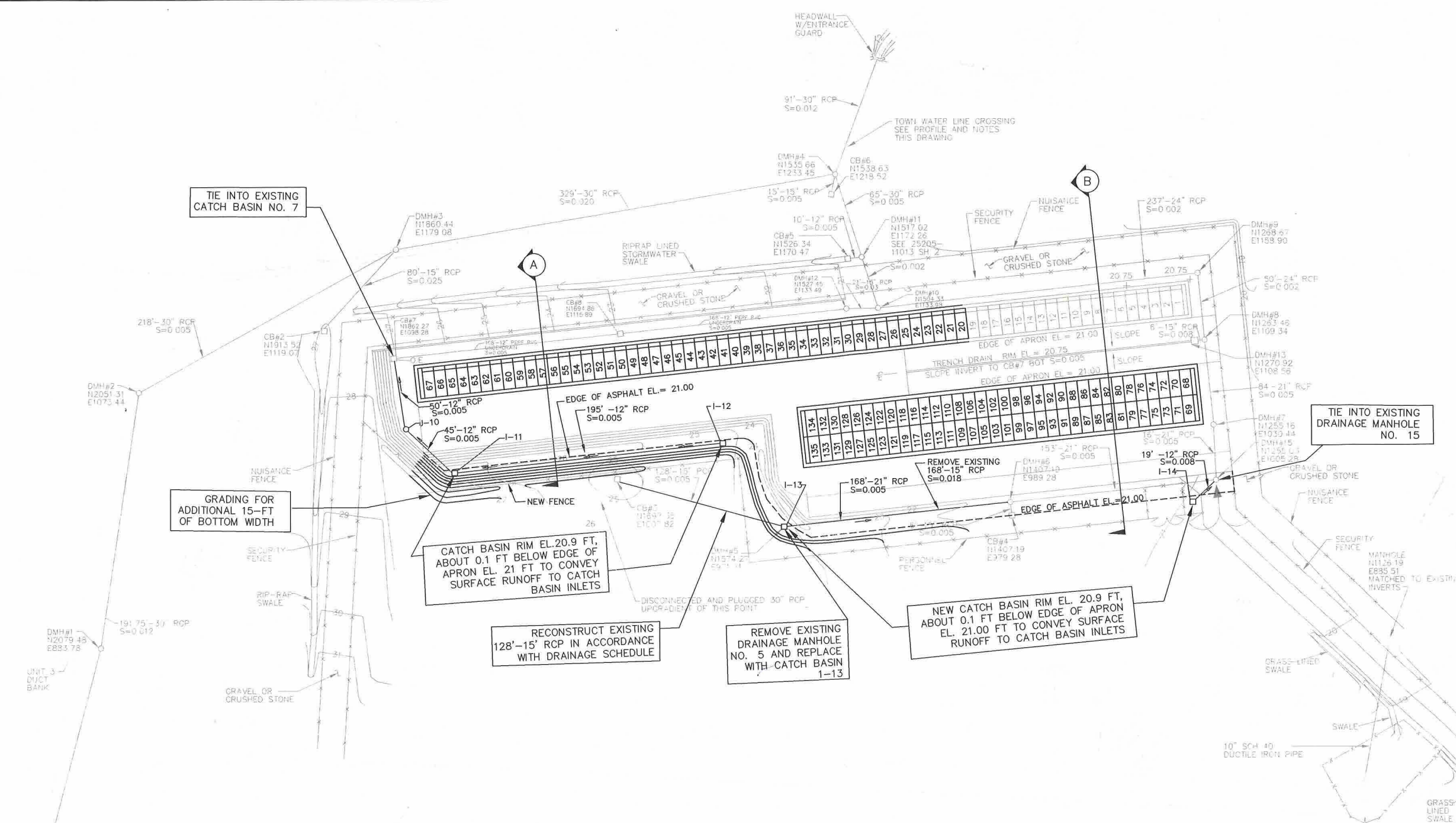
- 20.75 + GROUND SURFACE SPOT ELEVATION
- 28 — GROUND SURFACE ELEVATION CONTOUR
- CB#1 □ EXISTING CATCH BASIN AND IDENTIFICATION
- I-11 □ PROPOSED CATCH BASIN AND IDENTIFICATION
- DMH#1 ○ EXISTING MANHOLE AND IDENTIFICATION
- J-10 ○ PROPOSED MANHOLE AND IDENTIFICATION
- 209'-30" RCP S=0.005 — EXISTING STORM DRAIN; PIPE SECTION LENGTH, DIAMETER AND SLOPE
- 209'-30" RCP S=0.005 — PROPOSED STORM DRAIN; PIPE SECTION LENGTH, DIAMETER AND SLOPE
- — EXISTING TRENCH DRAIN
- ← — DIRECTION OF PIPE FLOW

**REFERENCES:**

1. 25205-59007, ISFI FINAL GRADING & DRAINAGE PLAN DATED 02/18/04, "PROVIDED ELECTRONICALLY BY DOMINION AS CAD FILE 59007"
2. 25205-59006, ISFI SITE PLAN (FULL BUILD-OUT) DATED 02/18/04, "PROVIDED ELECTRONICALLY BY DOMINION AS CAD FILE 59006&BUILDOUT"

**NOTES:**

1. ELEVATIONS SHOWN IN NGVD29 DATUM
2. REFER TO DRAWING NO. 4 FOR SCHEDULE OF ELEVATIONS FOR PROPOSED DRAINAGE NETWORK
3. REFER TO DRAWING NO. 2 FOR ADDITIONAL LEGEND INFORMATION



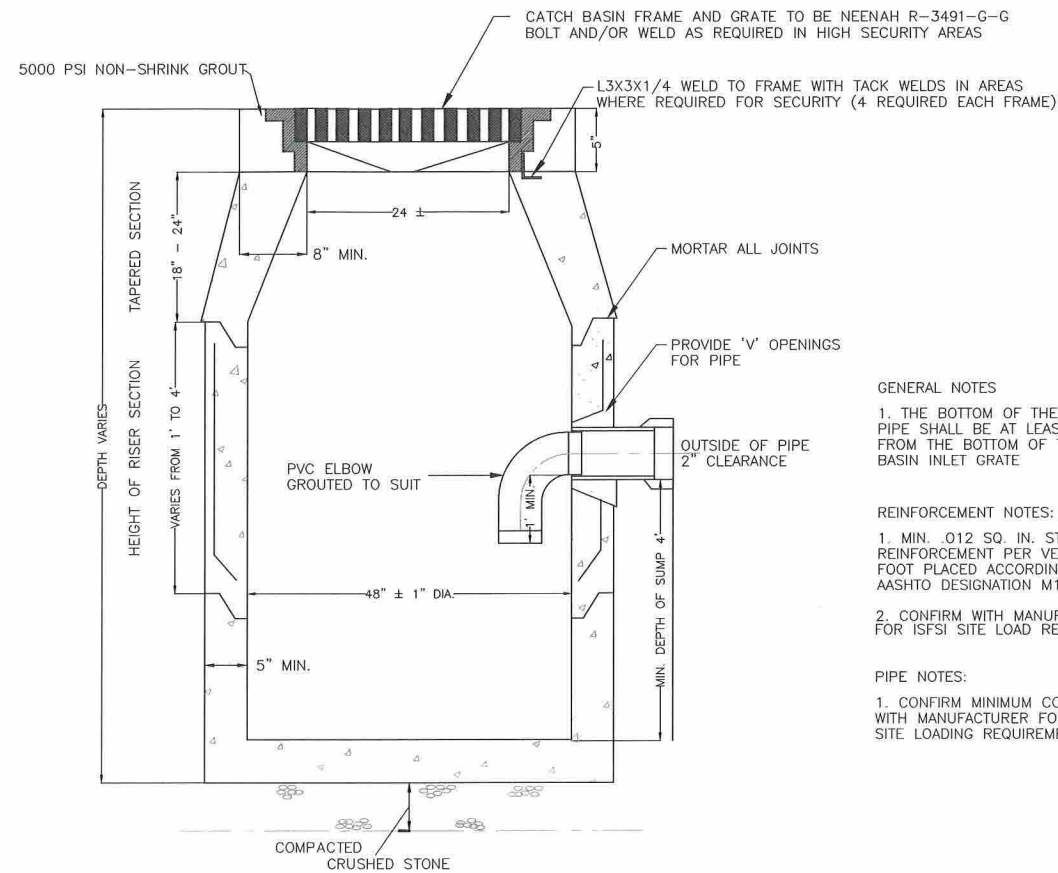
APPROVED:		NO.	ISSUE/DESCRIPTION	BY	DATE

**MILLSTONE POWER STATION**  
**WATERFORD, CONNECTICUT**

PREPARED BY: **GZA GeoEnvironmental, Inc.**  
 Engineers and Scientists  
 ONE EDGEWATER DRIVE  
 NORFOLK, MASSACHUSETTS 01902  
 (781) 274-3700

PREPARED FOR: **DOMINION NUCLEAR CONNECTICUT INC.**

PROPOSED GRADING AND DRAINAGE PLAN (FULL BUILD-OUT)					
PROJ. NO.	DRAWN BY	REVIEWED BY	CHECKED BY	DATE	DRAWING
171138.00	KDH	PHB	DCS	04/12/2012	3
					AS SHOWN
					REVISION NO.



**GENERAL NOTES**

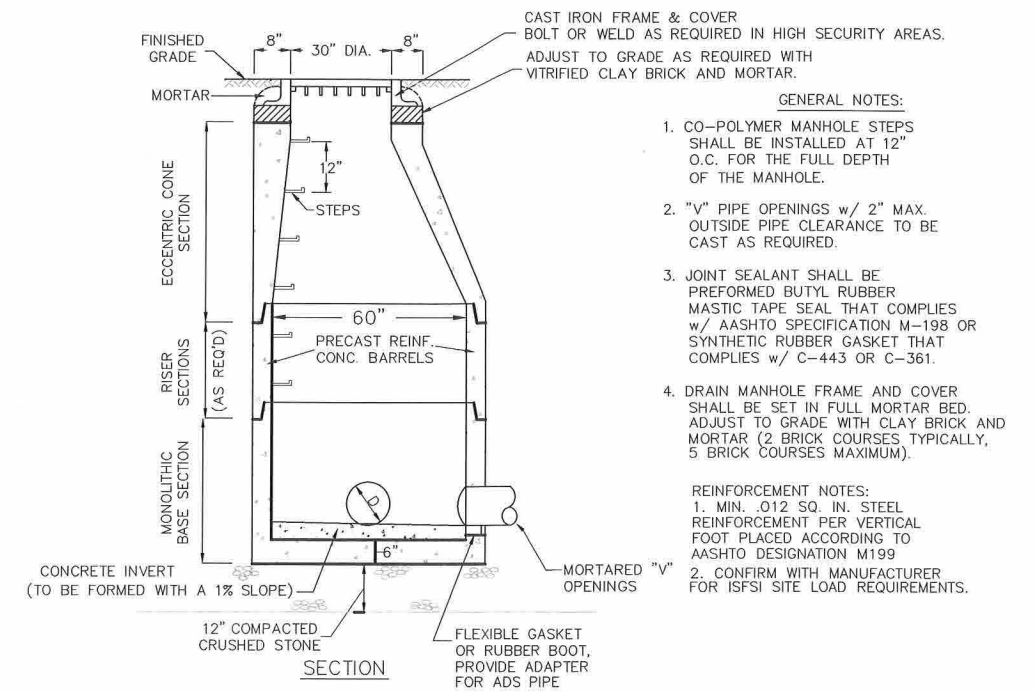
1. THE BOTTOM OF THE OUTLET PIPE SHALL BE AT LEAST 4 FEET FROM THE BOTTOM OF THE CATCH BASIN INLET GRATE

**REINFORCEMENT NOTES:**

1. MIN. .012 SQ. IN. STEEL REINFORCEMENT PER VERTICAL FOOT PLACED ACCORDING TO AASHTO DESIGNATION M199
2. CONFIRM WITH MANUFACTURER FOR ISFSI SITE LOAD REQUIREMENTS.

**PIPE NOTES:**

1. CONFIRM MINIMUM COVER WITH MANUFACTURER FOR ISFSI SITE LOADING REQUIREMENTS



- GENERAL NOTES:**
1. CO-POLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE MANHOLE.
  2. "V" PIPE OPENINGS w/ 2" MAX. OUTSIDE PIPE CLEARANCE TO BE CAST AS REQUIRED.
  3. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TAPE SEAL THAT COMPLIES w/ AASHTO SPECIFICATION M-198 OR SYNTHETIC RUBBER GASKET THAT COMPLIES w/ C-443 OR C-361.
  4. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

- REINFORCEMENT NOTES:**
1. MIN. .012 SQ. IN. STEEL REINFORCEMENT PER VERTICAL FOOT PLACED ACCORDING TO AASHTO DESIGNATION M199
  2. CONFIRM WITH MANUFACTURER FOR ISFSI SITE LOAD REQUIREMENTS.

**CATCH BASIN DETAIL**  
NOT TO SCALE

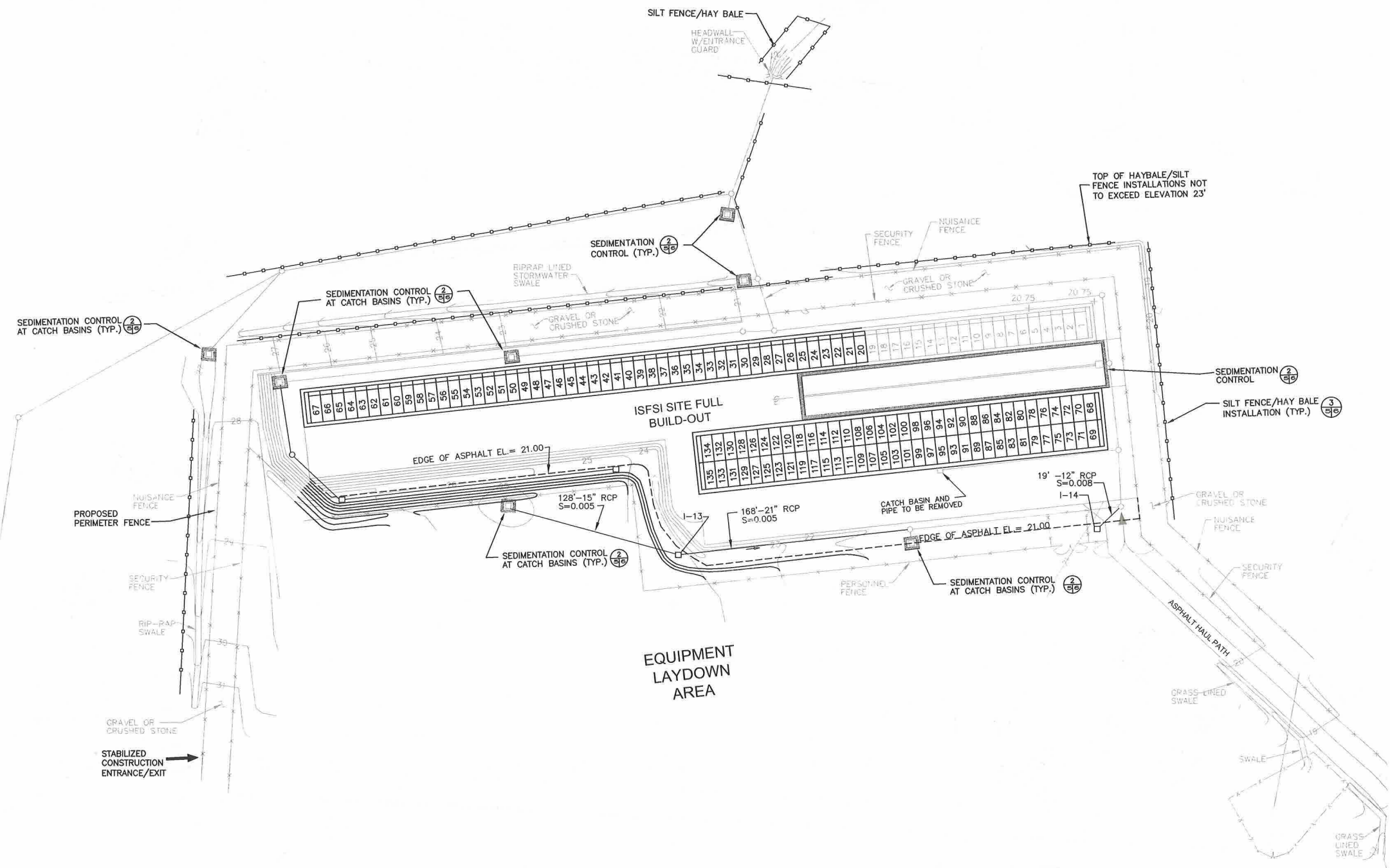
**60" DIAMETER PRECAST DRAIN MANHOLE (DMH)**  
NOT TO SCALE

<p>PROP. J-10 RIM=20.9 INV. IN (I-11)=16.63 INV. OUT (CB#7)=16.63</p> <p>PROP. I-11 RIM=20.9 INV. IN (I-12)= 16.86 INV. OUT (J-10)=16.86</p> <p>PROP. I-13 RIM=20.9 INV. IN (CB#3)=17.00 INV. OUT (DMH#6)=16.91</p> <p>PROP. I-12 RIM=20.9 INV. OUT (I-11)=17.84</p> <p>PROP. I-14 RIM=20.9 INV. IN (I-13)= 15.35 INV. OUT (DMH#7)=15.35</p>	<p>MODIFIED CB#3 RIM=24.50 PROPOSED INV. OUT (I-13)= 17.64</p> <p>MODIFIED DMH#6 RIM=21.00 PROPOSED INV. IN (I-13)= 16.39 EXISTING INV. IN (CB#4)=16.39 EXISTING INV. OUT (DMH#15)=16.07</p>	<p>EXIST. DMH#15 RIM=21.00 PROPOSED INV. IN (I-14)=15.35 EXISTING INV. IN (DMH#6)=15.30 EXISTING INV. OUT (DMH#7)=15.30</p> <p>EXIST. CB#7 RIM=20.9 PROPOSED INV. IN (J-10)= 16.38 EXISTING INV. OUT (CB#8)=16.38</p>
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NOTE: ELEVATIONS SHOWN IN FEET (NGVD 29 DATUM)  
DRAINAGE STRUCTURE SCHEDULE

APPROVED:	NO.	ISSUE/DESCRIPTION	BY	DATE
	<b>MILLSTONE POWER STATION</b>			
	WATERFORD, CONNECTICUT			
PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists ONE EDGEWATER DRIVE NORFOLK MASSACHUSETTS 01902 (978) 278-3300	PREPARED FOR: <b>DOMINION NUCLEAR CONNECTICUT INC.</b>			
<b>STORM WATER DRAINAGE DETAILS</b>				
PROJ MGR: DML DESIGNED BY: KDH DATE: 04/12/2012	REVIEWED BY: PHB DRAWN BY: KDH PROJECT NO.: 171138.00	CHECKED BY: DCS SCALE: AS SHOWN REVISION NO.:	<b>DRAWING 4</b>	

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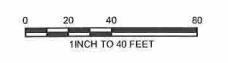


**NOTES:**

1. THE ISFSI PROJECT IS SUBJECT TO A STATE OF CONNECTICUT GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITY.
2. THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL ARE TO BE FOLLOWED.
3. SEE DWG. 6 FOR NARRATIVE, NOTES AND DETAILS.
4. SILT FENCE AND HAYBALES ARE NOT TO BE PLACED AGAINST ANY PROTECTED AREA FENCE. REMOVE PRIOR TO INSTALLATION OF PROTECTED AREA FENCE.
5. LOCATION OF TEMPORARY SEDIMENTATION TANKS AND BASINS AND CONTRACTOR FUELING AREA ARE NOT INDICATED AND WILL BE DETERMINED PRIOR TO THE START OF CONSTRUCTION.

**REFERENCES:**

1. 25205-59007, ISFI FINAL GRADING & DRAINAGE PLAN DATED 02/18/04, "PROVIDED ELECTRONICALLY BY DOMINION AS CAD FILE 59007"
2. 25205-59006, ISFI SITE PLAN (FULL BUILD-OUT) DATED 02/18/04, "PROVIDED ELECTRONICALLY BY DOMINION AS CAD FILE 59006&BUILDOUT"



NO.	ISSUE/DESCRIPTION	BY	DATE



**MILLSTONE POWER STATION**  
**WATERFORD, CONNECTICUT**

PREPARED BY: **GZA GeoEnvironmental, Inc.**  
 Engineers and Scientists  
 ONE ECHOWATER DRIVE  
 NORWOOD, MASSACHUSETTS 02062  
 (978) 278-3500

PREPARED FOR:  
**DOMINION NUCLEAR CONNECTICUT INC.**

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EROSION AND SEDIMENT CONTROL PLAN (FULL BUILD-OUT)			
PROJ MGR:	DML	REVIEWED BY:	PHB
DESIGNED BY:	KDH	DRAWN BY:	KDH
DATE:	04/12/2012	PROJECT NO.:	171138.00
CHECKED BY:	DCS	SCALE:	AS SHOWN
DRAWING NO.:	<b>5</b>		

## EROSION AND SEDIMENT CONTROL NARRATIVE

### EROSION AND SEDIMENT CONTROL MEASURES

The following erosion and sediment control techniques are to be employed to minimize erosion and transport of sediment to resource areas during the earthwork and construction phases of the project.

#### SITE STRIPPING AND EXCAVATION

During the site stripping stage, existing pavement, gravel, rail spurs, etc. within the limits of the ISFSI Site are to be cleared and removed. Prior to any site stripping activities, silt fence and hay bale barriers are to be placed around the outer work perimeter. Disturbance is to be limited to those areas necessary to complete the proposed work.

#### HAY BALE/SILT FENCE BARRIERS

Hay bale/silt fence barriers are to be placed to trap sediment transported by runoff before it reaches the drainage system or leaves the construction site, in addition to areas where high runoff velocities or high sediment loads are expected. The silt fences and hay bale barriers are to be replaced as determined by periodic field inspections. Hay bales or silt fence should not be placed along the Protected Area fence.

#### CATCH BASIN INLET PROTECTION

Existing and newly constructed catch basins are to be protected with hay bale barriers (where appropriate) or silt socks throughout construction.

#### SLOPE PROTECTION

Slope protection will be provided using silt fence/hay bale installations. If this erosion and sedimentation control method is ineffective, then the Contractor will install matting such as straw, jute, wood fiber, and/or plastic netting.

#### TEMPORARY SEDIMENT BASINS

Temporary sediment basins will be designed either as excavations or bermed stormwater detention structures (depending on grading) that will retain runoff for a sufficient period of time to allow suspended soil particles to settle out prior to discharge. These temporary basins will be located based on construction needs as determined by the contractor in consultation with the Owner's resident engineer. A perforated riser surrounded by a crushed stone filter will be typically used to control discharge from the basin. Points of discharge from sediment basins will be stabilized to minimize erosion.

#### STOCKPILED MATERIALS

Stockpiles created during construction activities are to be surrounded with hay bales and silt fence. Other acceptable alternatives include gravel filter berms laid around the perimeter of the stockpile. Stormwater run-off is to be diverted away from stockpiles.

#### SLOPE STABILIZATION

Stabilization of open slope surfaces is to be implemented within 14 days after grading or construction activities have temporarily or permanently ceased. Slope stabilization is to be used to minimize erosion on slopes of 3:1 or flatter. Establishment of temporary and permanent vegetative cover is to be established by hydro-seeding or sodding. Mulch is to be used after permanent seeding to protect soil from the impact of falling rain and to increase the capacity of the soil to absorb water. Non-vegetative slope stabilization is to include crushed stone and/or gravel surfacing, underlain by a geotextile separation fabric.

#### WINTER STABILIZATION

Any areas disturbed at any phase of on-site activity conducted during winter conditions will be temporarily stabilized with hand laid straw mulch, hydro-seeding, mulching, or erosion control blankets as necessary to control erosion during winter storm events.

#### CONSTRUCTION DEWATERING

Dewatering may be required for construction. Where possible, the wastewater discharge is to be infiltrated into the ground. However, the existing soils have limited infiltration capacity. Construction dewatering wastewater discharged to a surface water body is to be pre-treated for sediment removal by residing in a fractionation/sedimentation tank or temporary sediment basin prior to discharge.

#### CONSTRUCTION SITE ENTRANCE & EXIT

Stabilized construction entrance and exit are to be established at all permanent construction staging areas, including the Soil Placement Area, to reduce the tracking of sediment from the construction site onto other areas of the Millstone Property and to public ways. Street sweeping is to be used if the stabilized entrance and exit are not adequate to prevent sediment from being tracked onto the roads.

#### DUST CONTROL

Standard dust control measures are to be used, such as use of water trucks, misting, mulch, or placement of calcium chloride. These measures are to be used when open dry areas of soil are anticipated on the site. In addition, dust control measures are to be considered prior to clearing and grading activities, which can create the opportunity for large amounts of dust to be blown.

#### EQUIPMENT FUELING

Equipment fueling and other activities including petroleum, oil and other potentially hazardous substances is to be performed at a pre-approved, designated area with appropriate spill prevention and control measures. This area is to be located on an asphalt paved surface, away from catch basins and other drainage structures, within the Equipment Laydown Area. Portable secondary containment is to be used, and sorbent materials are to be placed around the perimeter of the fueling area, during all fueling activities.

#### GOOD HOUSEKEEPING AND WASTE DISPOSAL

The site is to be maintained in a clean and orderly fashion, ensuring that no litter, debris, building materials, or similar materials are discharged to waters of the State. All dumpsters are to have covers and intact drain plugs (if applicable) or are to be staged in roofed areas to prevent dumpster/compactor leakage from entering stormwater. No building material residues (internal truck washes) are to be discharged to drainage systems or waters of the state.

#### INSPECTION AND MAINTENANCE

Qualified personnel, as determined by Dominion, are to inspect disturbed areas of the construction activity that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit. Inspection is to be performed at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.1 inches or greater. Where sites have been temporarily or finally stabilized, such inspection is to be conducted at least once every month for three months.

The focus of the inspection is to determine: 1) whether or not control measures were installed/performed correctly; 2) whether or not there has been damage to measures since they were installed or performed; and 3) what should be done to correct any problems with the measures. Each measure is to be observed to determine if it is still effective. In some cases, specific measurements may be taken to determine if maintenance of the measures are required. For example, sediment depths may be measured to determine if cleaning or replacement is required.

#### SITE MANAGER

Prior to construction a Site Manager will be designated, who will be responsible for installation, monitoring, inspection and correction of erosion and sediment control measures.

#### REPORTING AND RECORD KEEPING

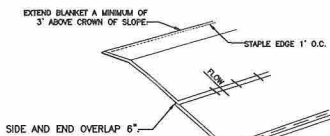
In addition to the aforementioned inspection and maintenance procedures, the contractor is to keep a record of the following information:

1. The dates when major grading activities occur in a particular area;
  2. The dates when construction activities cease in an area, temporarily or permanently; and
  3. The dates when an area is stabilized, temporarily or permanently.
4. A copy of the Stormwater Pollution Control Plan and all reports generated during construction activities are to be retained as required by regulation.

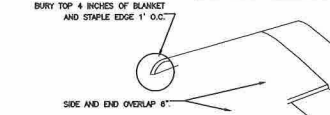
#### SEQUENCE OF GRADING AND CONSTRUCTION ACTIVITIES

The following provides recommendations for the general sequence of work:

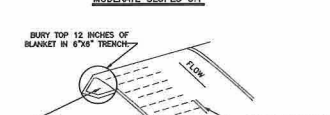
1. Install stabilized construction exits.
2. Install perimeter hay bales and silt fence as necessary.
3. Provide catch basin inlet protection at existing catch basins.
4. Perform Stripping (removal of gravel surface) at ISFSI site.
5. Provide protection for all stockpiles.
6. Prepare temporary sedimentation basins, as may be required.
7. During stripping and excavation, install berms to collect site runoff as required.
8. Implement other dewatering control measures (e.g. frac tanks with filters) as required.
9. Begin earthwork at the ISFSI site.
10. In areas where flow is concentrated, install crushed stone or hay bale check dams.
11. Upon completion of earthwork within the ISFSI Site, install remaining drainage structures.
12. Provide inlet protection at newly constructed catch basins and manholes.
13. Construct concrete pads and aprons within ISFSI Site.
14. Complete grading.
15. Remove accumulated sediment from basins and other sediment control devices.
16. Perimeter erosion control will remain in place until permanent stabilization has been achieved.
17. Loam and seed soil placement area.



SHALLOW SLOPES 4:1 OR LESS



MODERATE SLOPES 3:1

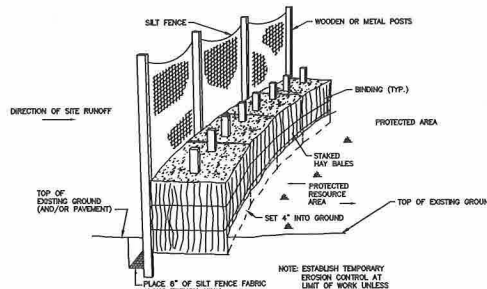


STEEP SLOPES 2:1 OR GREATER

NOTES:  
1. ON SHALLOW SLOPES BLANKETS MAY BE APPLIED ACROSS THE SLOPE.

### 1 MATTING PROTECTION

NOT TO SCALE

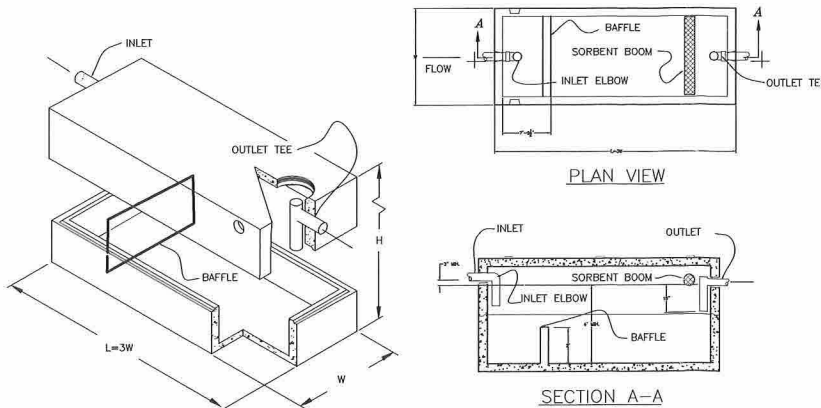


#### CONSTRUCTION SPECIFICATIONS

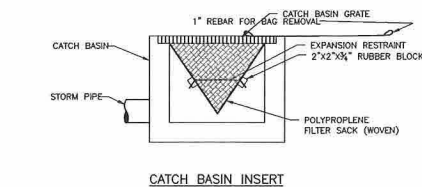
1. BALES SHALL BE PLACED WHERE SPECIFIED ON DRAWINGS IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO WOODEN STAKES DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY Laid BALE AT AN ANGLE TO FORCE THE BALES TOGETHER.
4. 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 FORMING-IN OF HAYBALES AND SILTATION FENCE).
5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

### 3 HAY BALE SILT FENCE BARRIER DETAIL

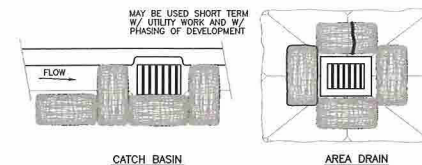
NOT TO SCALE



### SEDIMENTATION TANK



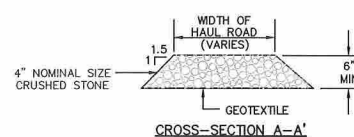
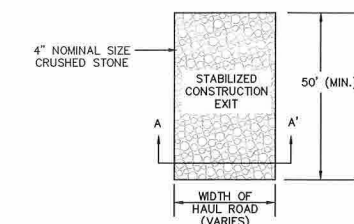
### CATCH BASIN INSERT



### HAY BALES

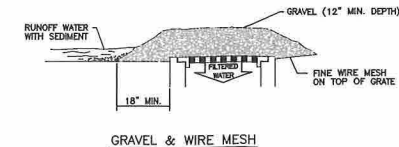
### 2 CATCH BASIN INLET PROTECTION

NOT TO SCALE

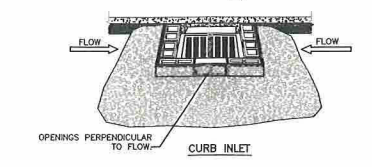
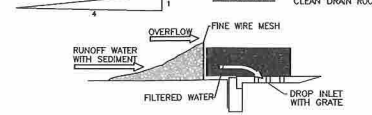
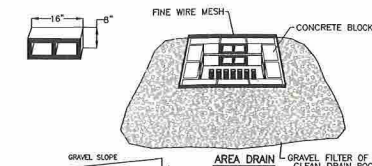


### 4 STABILIZED CONSTRUCTION EXIT (TYPICAL)

NOT TO SCALE

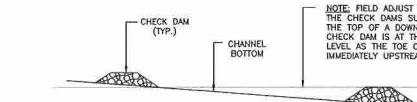
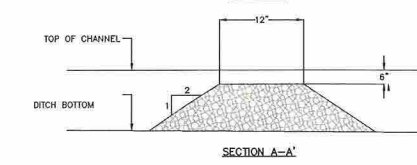
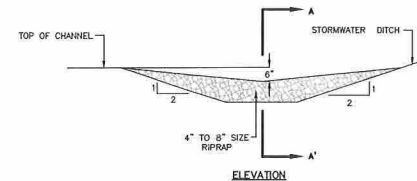


### GRAVEL & WIRE MESH



NOTE:  
1. BLOCKS SHALL BE STACKED WITH THE OPENINGS ON THE TOP AND BOTTOM EXCEPT FOR THE CENTER BLOCKS. CENTER BLOCKS WILL HAVE OPENINGS PERPENDICULAR TO FLOW.

### BLOCK AND GRAVEL INLET BARRIERS



### 5 DETAILS -- ROCK CHECK DAM

NOT TO SCALE

### GUIDELINES FOR PROPER DESIGN AND USE OF SEDIMENTATION TANKS INCLUDE:

SIZE TANKS TO ADEQUATELY HANDLE DEWATERING FLOWS.

TANKS SHOULD HAVE A MINIMUM DEPTH OF 4 FEET BELOW OUTLET PIPE.

TANK SURFACE AREA (LENGTH X WIDTH) SHOULD EQUAL THE MAXIMUM ANTICIPATED PUMPING RATE (GALLONS PER MINUTE) 0.8 SF/GPM. THE TANK LENGTH SHOULD BE AT LEAST THREE TIMES THE TANK WIDTH.

PLACE THE PUMP DISCHARGE HOSE AT THE INLET END OF THE TANK, AS FAR AS POSSIBLE FROM THE TANK OUTLET TO ENSURE USE OF THE ENTIRE TANK LENGTH. INSTALL A 15-INCH-LONG 90° ELBOW ON THE PUMP DISCHARGE HOSE TO DIRECT THE FLOW TOWARD THE TANK BOTTOM.

INSTALL A BAFFLE INSIDE THE TANK TO SLOW THE FLOW WITHIN THE TANK. THE BAFFLE SHOULD HAVE A MINIMUM HEIGHT OF ONE-HALF THE TANK'S DEPTH AND SHOULD BE LOCATED 3 FEET FROM THE INLET END.

PLACE A SORBENT BOOM IN THE TANK NEAR THE OUTLET TO AID IN REMOVING PETROLEUM PRODUCTS.

INSTALL A PIPE TEE OF BAFFLE INSIDE THE TANK AT THE OUTLET TO PREVENT DISCHARGE OF FLOATABLES FROM THE TANK'S SURFACE WATER. THIS OUTLET FITTING SHOULD EXTEND 15 INCHES BELOW THE OUTLET INVERT AND UPWARDS TO A HEIGHT 2 INCHES BELOW THE TOP OF THE TANK.

LOCATE THE INVERT OF THE OUTLET PIPE AT LEAST 3 INCHES BELOW INVERT OF THE INLET PIPE. HAVE THE OUTLET HOSE DISCHARGE DIRECTLY TO A CATCH BASIN OR OTHER DRAINAGE STRUCTURE.

IF THE TANK HAS A CLOSED TOP, ADD ACCESS HATCHES AT BOTH INLET AND OUTLET ENDS FOR INSPECTION, SAMPLING AND CLEANING.

INSPECT TANKS DAILY TO INSURE PROPER MAINTENANCE.

CLEAN TANKS WHEN SEDIMENT REACHES 1/4 OF THE TANK'S DEPTH OR WEEKLY, WHICHEVER COMES FIRST. TAKE TANKS OUT OF SERVICE WHEN THEY ARE BEING CLEANED. PLACE SEDIMENT REMOVED FROM THE TANK WITH OTHER MATERIAL EXCAVATED FROM THE SITE.

ENSURE THAT HOSES ARE NOT LEAKING AND THAT TANKS ARE NOT OVERFLOWING, THUS PREVENTING WATER FROM BYPASSING THE TANK AND ENTERING A DRAINAGE SYSTEM.

APPROVED:	NO.	ISSUE/DESCRIPTION	BY	DATE	
<b>MILLSTONE POWER STATION</b>					
<b>WATERFORD, CONNECTICUT</b>					
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists ONE EDGEWATER DRIVE NORTHWOOD, MASSACHUSETTS 02062 (978) 278-3700	PREPARED FOR: <b>DOMINION NUCLEAR</b> <b>CONNECTICUT INC.</b>				
<b>EROSION AND SEDIMENT CONTROL</b>					
<b>DETAILS</b>					
PROJ MGR: DESIGNED BY: DATE	OML KDH 04/12/2012	REVIEWED BY: DRAWN BY: PROJECT NO:	PHB KDH 171138.00	CHECKED BY: SCALE: REVISION NO.	DCS AS SHOWN 6

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**NOTES:**

1. SEE DRAWING 2 FOR LEGEND
2. SEE DRAWING 6 FOR EROSION CONTROL DETAILS
3. SOIL TO BE PLACED ON AS-NEEDED BASIS. SOIL TO BE PLACED IN CONTROLLED LIFTS OF 12 INCHES OR LESS AND GRADED TO DRAIN TO THE SOUTH AND EAST TO MAINTAIN PRE-CONSTRUCTION DRAINAGE PATTERN
4. SOIL PLACEMENT AREA TO BE FILLED TO AN EVEN LEVEL TO THE EXTENT PRACTICABLE
5. LOAM AND SEED. MAINTAIN EROSION AND SEDIMENTATION CONTROLS UNTIL VEGETATED
6. WETLANDS ARE PRESENT EAST OF THE SOIL PLACEMENT AREA. NO EXCESS SOIL SHALL BE PLACED WITHIN 100 FEET OF THE WETLANDS
7. APPROXIMATE CAPACITY OF SOIL PLACEMENT AREA:
  - ASSUMING AVERAGE THICKNESS OF TWO FEET - 5,000 CUBIC YARDS
  - ASSUMING AVERAGE THICKNESS OF THREE FEET - 8,000 CUBIC YARDS

**REFERENCES:**

1. SK-PA59007.DGN, ISFI SOIL PLACEMENT AREA TOPOGRAPHY PLAN PROVIDED ELECTRONICALLY BY DOMINION AS CAD FILE "SOILTPO.DWG" ON FEBRUARY 15, 2012



NO.	ISSUE/DESCRIPTION	BY	DATE

APPROVED: \_\_\_\_\_

**MILLSTONE POWER STATION**  
WATERFORD, CONNECTICUT

PREPARED BY: **GZA Geoenvironmental, Inc.**  
Engineers and Scientists  
ONE BUCKWATER DRIVE  
SPOFFORD, MASSACHUSETTS 02092  
(781) 278-2100

PREPARED FOR: **DOMINION NUCLEAR CONNECTICUT, INC.**

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PROJ. NO.	DML	REVIEWED BY:	PHB	CHECKED BY:	DCS	DRAWING
DESIGNED BY:	KDH	DRAWN BY:	KDH	SCALE:	AS SHOWN	<b>7</b>
DATE:	04/12/2012	PROJECT NO.:	171138.00	REVISION NO.:		