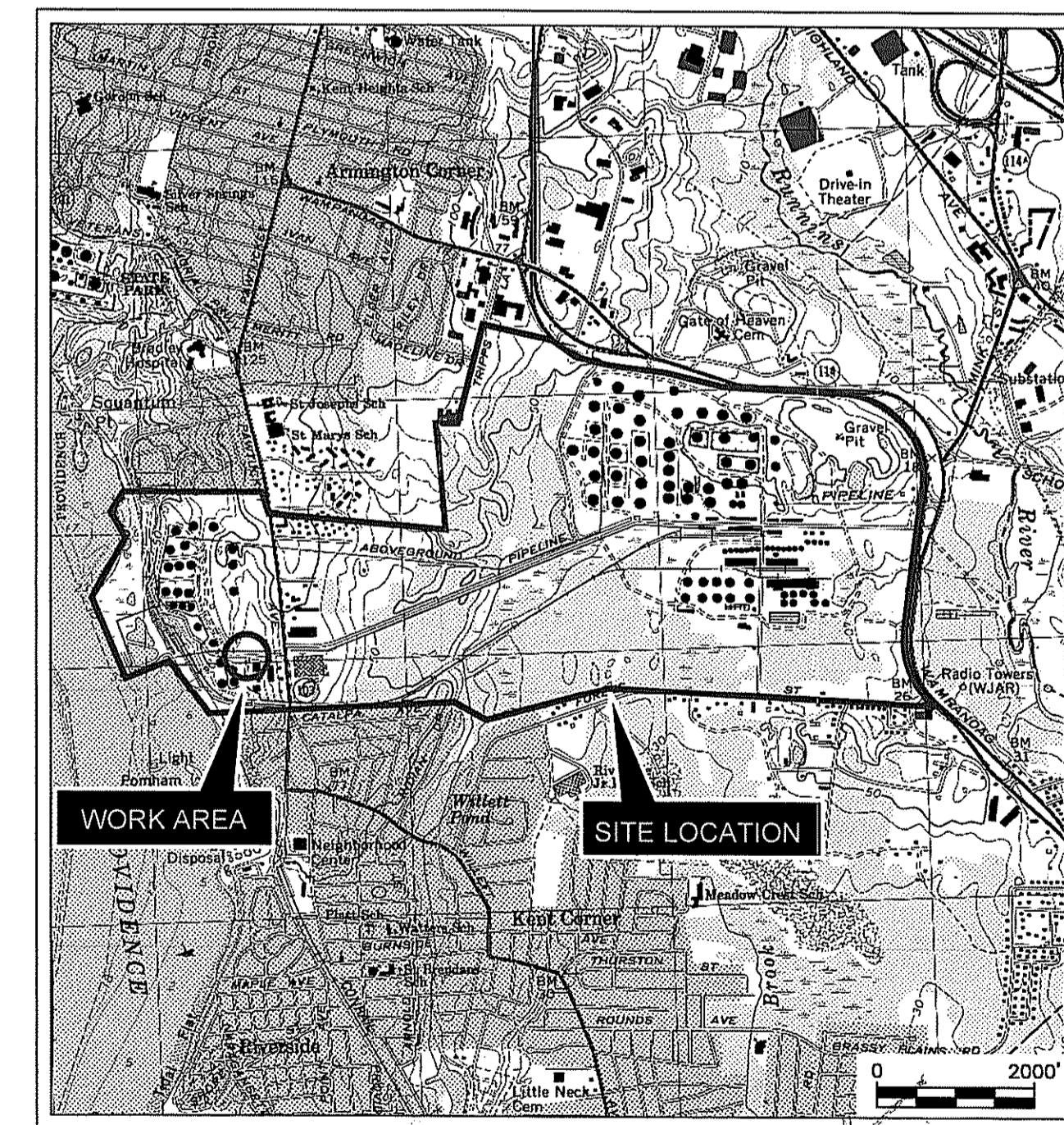
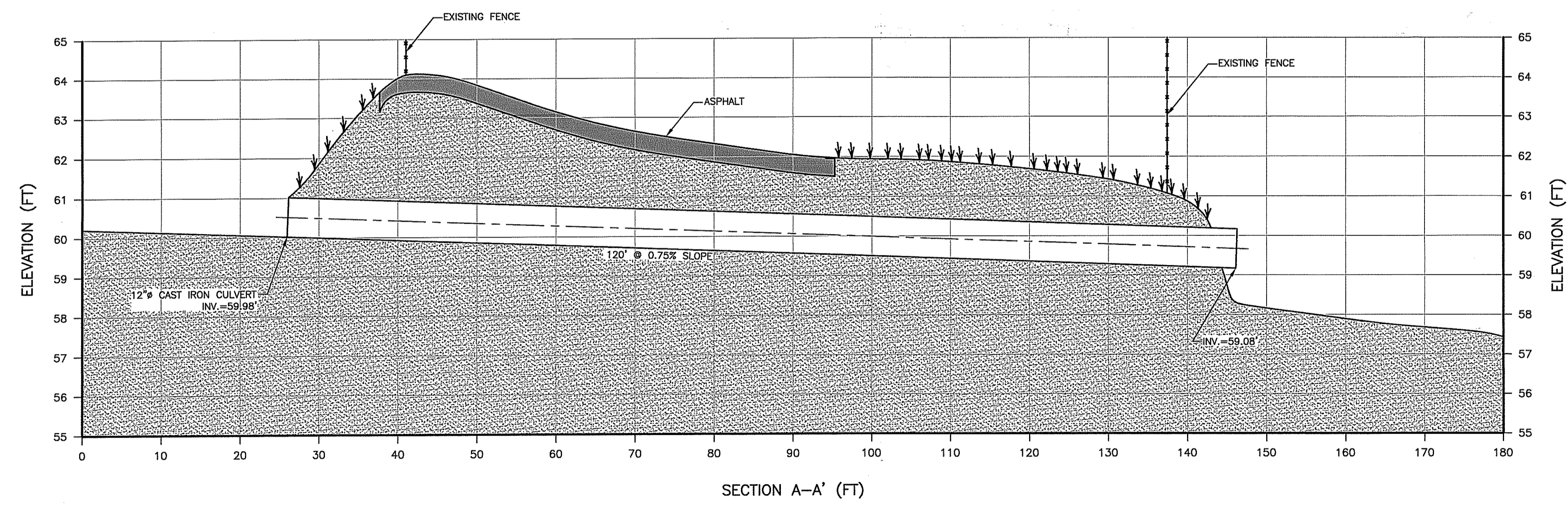


- LEGEND**
- EXISTING PAVED ROAD
 - EXISTING CONTOURS
 - EXISTING FENCELINE
 - EXISTING SWALE

JUL 11 2012



LOCUS PLAN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 10 2012 FILE # 12-0051
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Date: 02APR12 File Name: \\CAD\PROJECTS\0172\0035\258\0172_0035Y258.03.dwg Plot Scale: 1:1

NO.	DATE	REVISION DESCRIPTION	INT.

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PROJECT ENGINEER:
 A.L.
 DESIGNED BY:
 K.C.
 DRAWN BY:
 G.M.
 CHECKED BY:
 C.M.

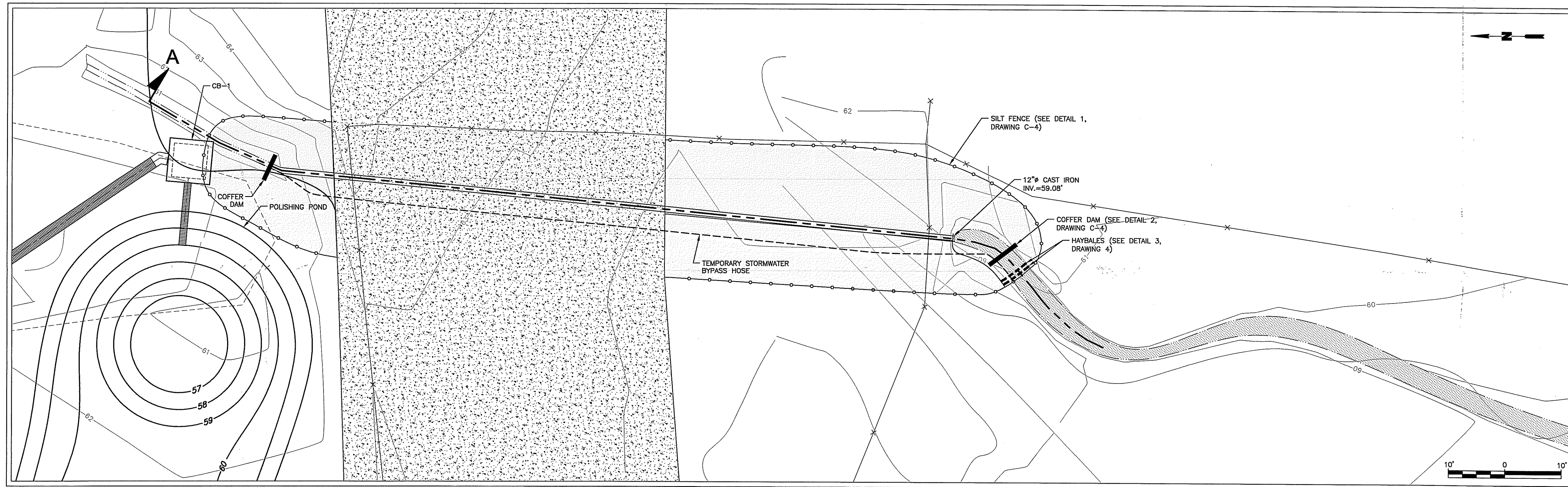
PROJECT NO.
 0172.0035Y038
 FILE NO.
 0172.0035Y258.03
 SCALE:
 1" = 10'
 DATE:
 JUNE 2012

REMEDIAL ENGINEERING, P.C.
 209 Shafter Street
 Islandia, New York 11749 (631) 232-2600

PROJECT NAME:
VANITY FAIR AREA ACCESS ROAD CULVERT UPGRADE
 PROJECT FOR:
EXXONMOBIL OIL CORPORATION
1001 WAMPANOAG TRAIL, EAST PROVIDENCE,
RHODE ISLAND

TITLE:
EXISTING CULVERT
PLAN AND SECTION

DRAWING NO.
C-1
 DRAWING
 1 OF 4



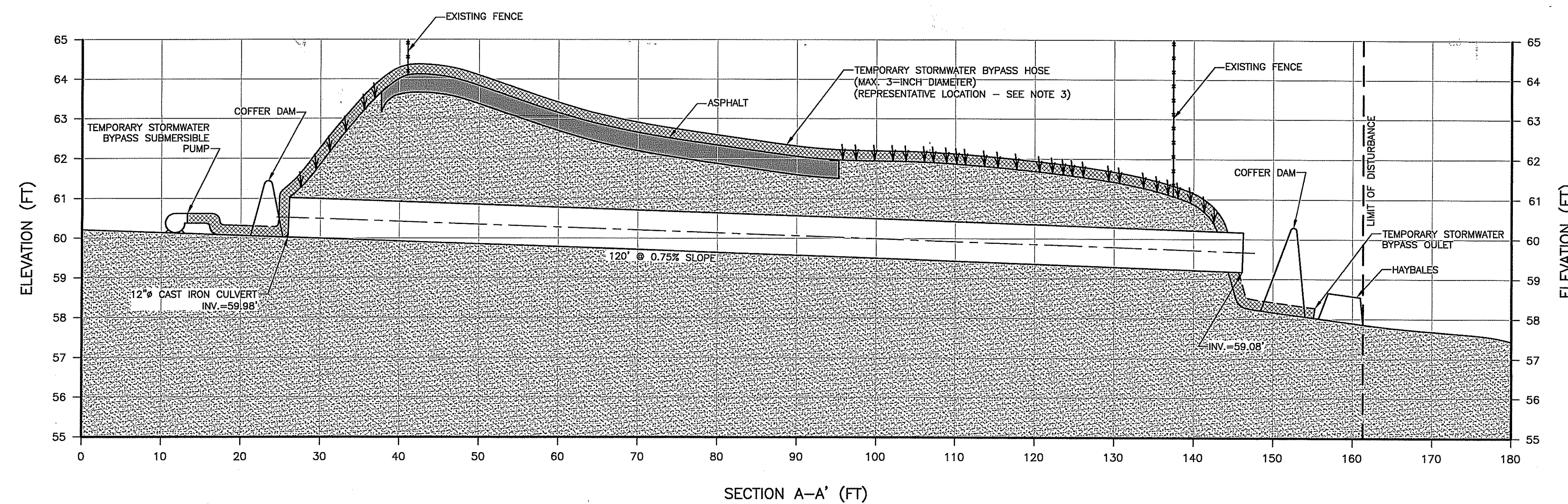
LEGEND

	EXISTING PAVED ROAD
	LIMIT OF DISTURBANCE
	EXISTING CONTOURS
	EXISTING FENCELINE
	EXISTING SWALE
	TEMPORARY SURFACE WATER BYPASS
	SILT FENCE AND HAYBALES

GENERAL NOTES

- ALL WORK UPSTREAM (NORTH) OF THE PROPOSED CULVERTS HAS BEEN AUTHORIZED BY RIDEM FRESHWATER WETLANDS PERMIT NO. 11-0235.
 - EROSION AND SEDIMENT CONTROLS SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- TEMPORARY STORMWATER BYPASS NOTES:**
- TEMPORARY STORMWATER BYPASS SHALL CONSIST OF A SUBMERSIBLE PUMP AND HOSE (LESS THAN 3-INCH DIAMETER). DEWATERING IS NOT REQUIRED. TEMPORARY STORMWATER BYPASS WILL BE USED DURING STORM EVENTS ONLY TO PREVENT STORMWATER FROM ENTERING THE WORK AREA.
 - SUBMERSIBLE PUMP SHALL BE PLACED UPSTREAM OF THE UPSTREAM COFFER DAM AS SHOWN.
 - HOSE SHALL RUN FROM THE SUBMERSIBLE PUMP ACROSS THE EXXONMOBIL SITE ENTRANCE ROAD, AND SHALL DISCHARGE BETWEEN THE COFFER DAM AND HAYBALES AT THE EFFLUENT SIDE OF THE CULVERT. LOCATION OF HOSE WILL VARY WITHIN THE LIMITS OF DISTURBANCE BASED ON THE LOCATION OF CONSTRUCTION; HOWEVER BYPASS INFLUENT AND EFFLUENT LOCATIONS WILL REMAIN CONSTANT.

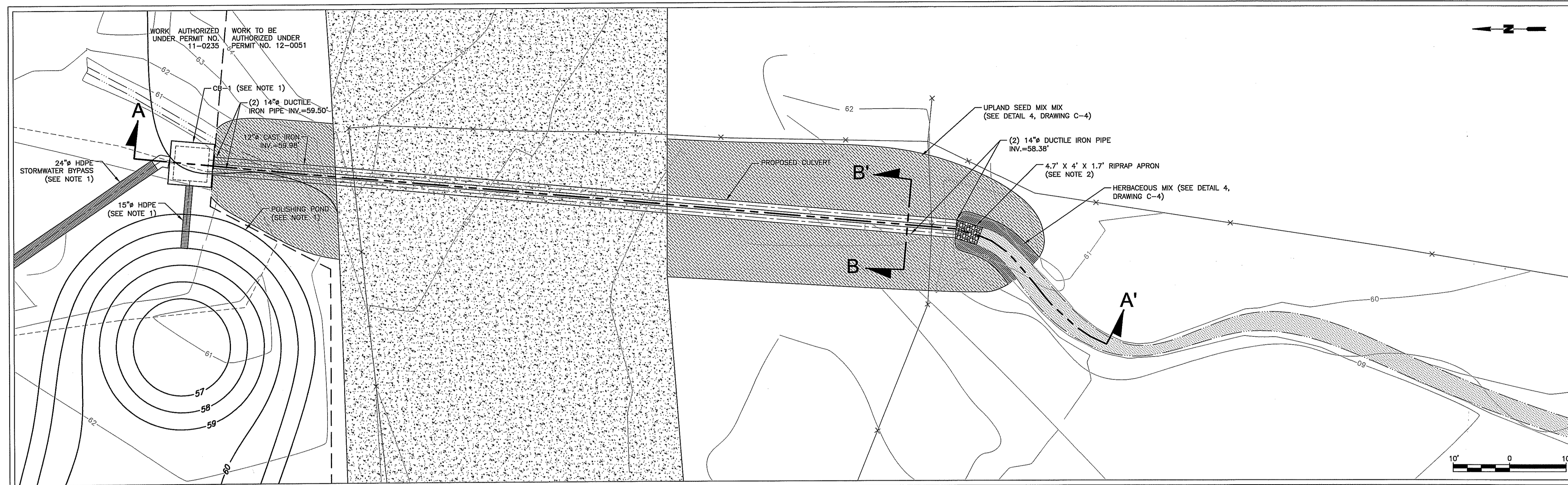
JUL 11 2012



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 RIVERS AND WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AT SPECIAL DISTRICT MEETING OF APPROVAL
 AUG 10 2012 FILE # 12-0051
 THESE PLANS MUST BE AT CONSTRUCTION SITE

File Name: \\CADD\PROJECTS\0172\0035Y258\0172\0035Y258.DWG
 Date: 02/09/12
 Plot Scale: 1:1

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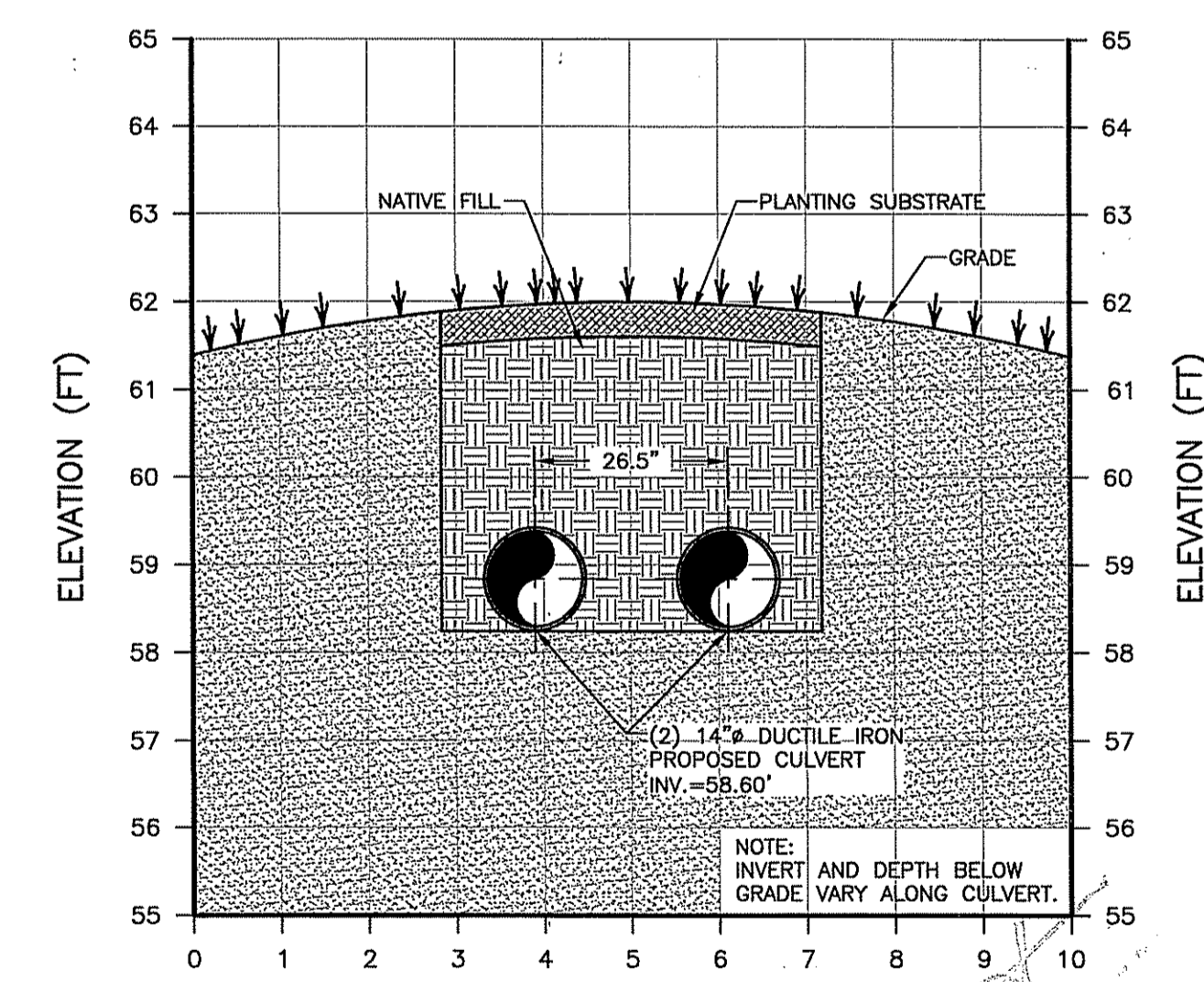
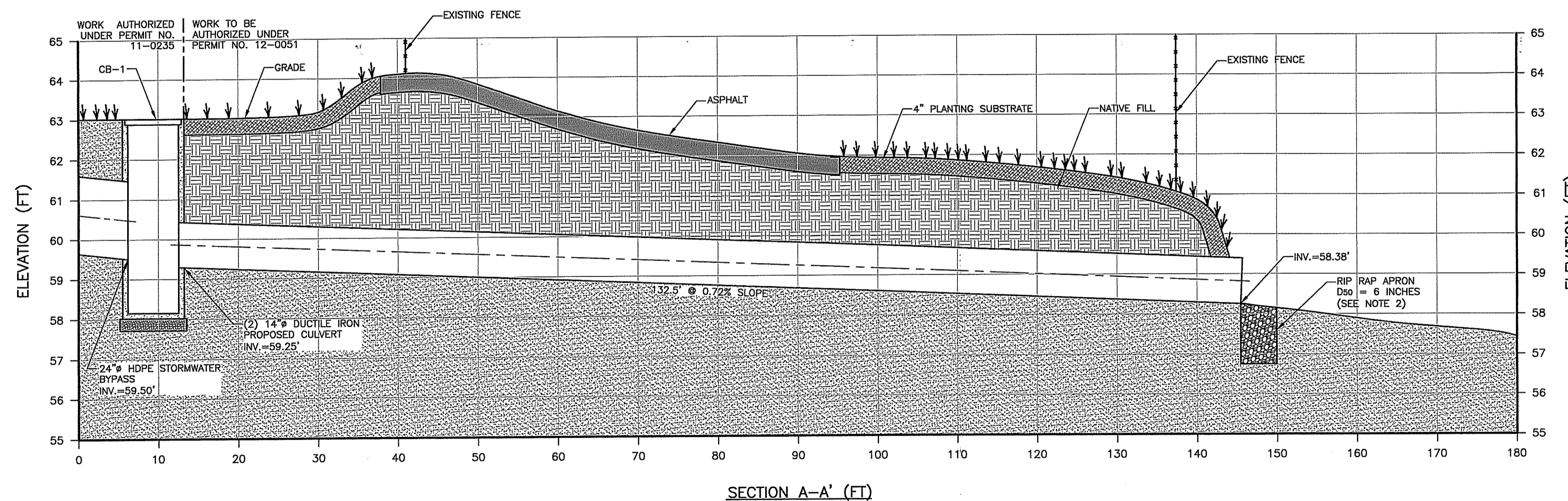
LEGEND

	EXISTING PAVED ROAD
	UPLAND SEED MIX
	HERBACEOUS MIX
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EXISTING FENCELINE
	EXISTING SWALE

APPROVED FOR CONSTRUCTION
 JUL 11 2012
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NOTES

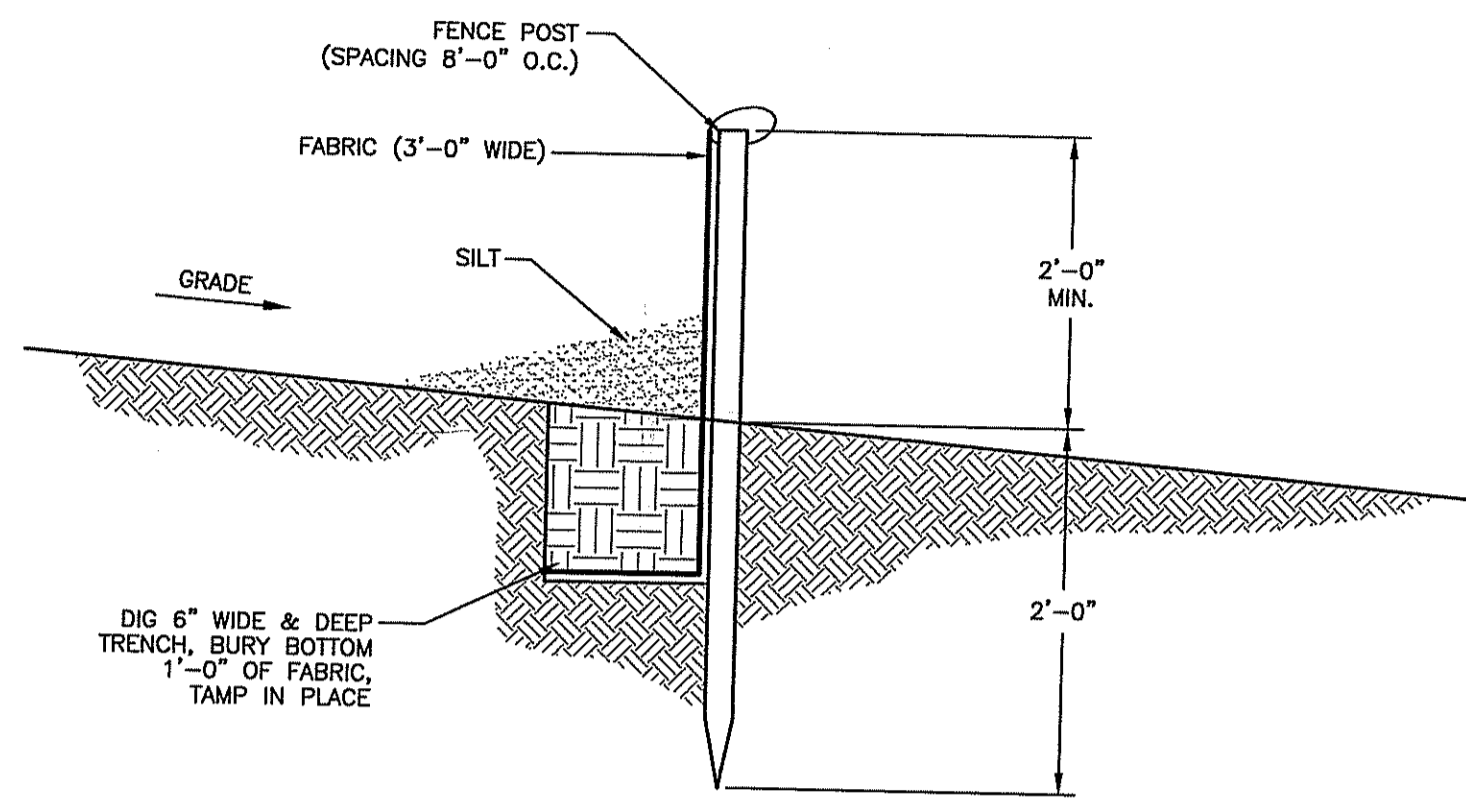
- ALL WORK UPSTREAM (NORTH) OF THE PROPOSED CULVERTS OUTSIDE OF THE LIMITS OF DISTURBANCE HAS BEEN AUTHORIZED BY RIDEM FRESHWATER WETLANDS PER PERMIT NO. 11-0235.
- RIPRAP APRON SHALL CONSIST OF D50 6 INCH STONE. RIPRAP APRON SHALL BE 4.7 FEET LONG BY 4 FEET WIDE AND 1.7 FEET DEEP.
- THE CULVERT AND DRAINAGE CHANNELS SHALL BE INSPECTED PERIODICALLY FOR SIGNS OF FLOW IMPAIRMENT (I.E. SEDIMENTATION) OR SCOURING. FLOW IMPAIRMENTS OR SCOUR AREAS SHALL BE ADDRESSED.
- EXXONMOBIL OIL CORPORATION SHALL BE RESPONSIBLE FOR SHORT AND LONG TERM MAINTENANCE.



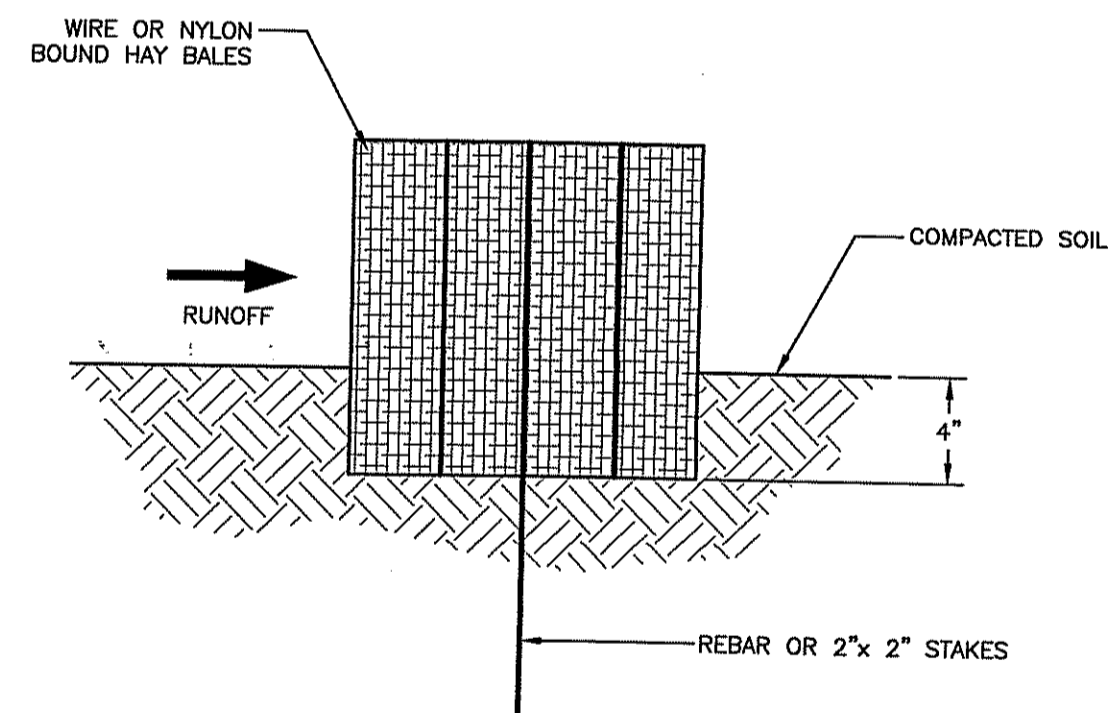
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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File Name: \\C:\DWG\PROJECTS\0172\0051\12-0051.dwg Date: 08/01/12 Plot Scale: 1:1

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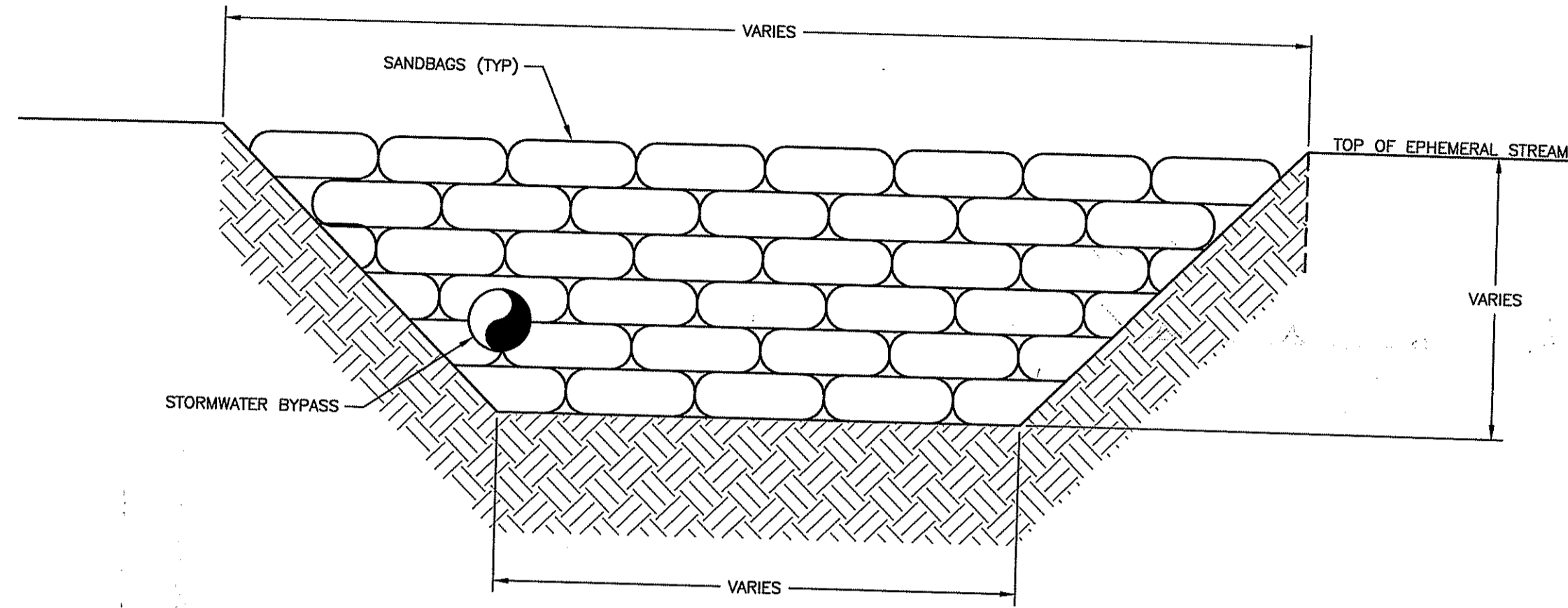
1 TYPICAL SILT FENCE DETAIL
SCALE: NOT TO SCALE



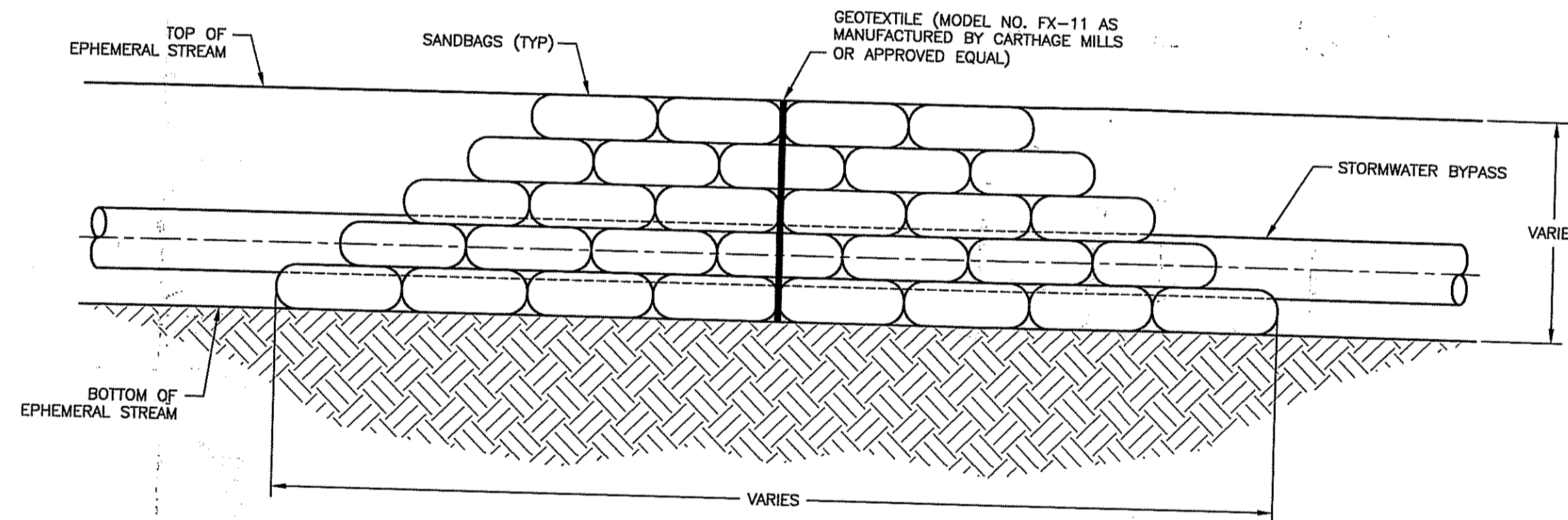
2 HAY BALE DETAIL
SCALE: NOT TO SCALE

NOTES

- WHERE HAY BALES AND SILT FENCES ARE REQUIRED TOGETHER, THE HAY BALES SHALL BE LOCATED UPGRADIENT OF SILT FENCE.
- REBAR OR STAKES SHALL BE EMBEDDED 2'-0" IN GROUND, TWO PLACES IN EACH HAY BALE.



SECTION (PERPENDICULAR TO FLOW)



SECTION (PARALLEL TO FLOW)

3 COFFER DAM DETAIL
SCALE: NOT TO SCALE

COFFER DAM NOTES:

- CONTRACTOR SHALL CONSTRUCT COFFERDAM TO MATCH WIDTH AND DEPTH OF CANAL.
- QUANTITY OF SANDBAGS DEPICTED IS FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN COFFERDAM IN ACCORDANCE WITH REQUIREMENTS DEFINED IN CONTRACTOR'S WORK AND WASTE HANDLING PLAN, BASED ON ACTUAL FIELD CONDITIONS ENCOUNTERED.
- COFFER DAM TO BE INSTALLED UPGRADIENT AND DOWNGRADIENT OF WORK AREA TO ISOLATE WORK FROM STORMWATER DURING CONSTRUCTION. COFFER DAMS SHALL BE RELOCATED AS NEEDED DURING CONSTRUCTION.

Common Name	Scientific Name	Indicator Status	Planting Type	Spacing
Lurid sedge	<i>Carex lurida</i>	OBL	2-inch Plug	1 R.O.C.
Blunt spike-rush	<i>Eleocharis obtusa</i>	OBL	2-inch Plug	1 R.O.C.
Soft rush	<i>Juncus effusus</i>	FACW+	2-inch Plug	1 R.O.C.
Pickering weed	<i>Pontederia cordata</i>	OBL	2-inch Plug	1 R.O.C.
Hardstem bulrush	<i>Schoenoplectus (Scirpus) acutus</i>	OBL	2-inch Plug	1 R.O.C.
Chairmaker's bulrush	<i>Schoenoplectus (Scirpus) americanus</i>	OBL	2-inch Plug	1 R.O.C.
Wool grass	<i>Scirpus oyperinus</i>	FACW+	2-inch Plug	1 R.O.C.
Soft-stem bulrush	<i>Schoenoplectus tabernaemontani (Scirpus verticillatus)</i>	OBL	2-inch Plug	1 R.O.C.
Giant bur-reed	<i>Sparganium eurycarpum</i>	OBL	2-inch Plug	1 R.O.C.
Deep water duck potato	<i>Sagittaria rigida</i>	OBL	2-inch Plug	1 R.O.C.
Arrow arum	<i>Peltandra virginica</i>	OBL	2-inch Plug	1 R.O.C.
Sweet flag	<i>Acorus calamus</i>	OBL	2-inch Plug	1 R.O.C.
Broadleaf arrowhead	<i>Sagittaria latifolia</i>	OBL	2-inch Plug	1 R.O.C.

O.C. = On Center

Common Name	Scientific Name	Indicator Status	Percent of Mix
Little bluestem	<i>Schizachyrium scoparium</i>	FACU-	34%
Sideoats Grama	<i>Bouteloua curtipendula</i>	NI	10%
Virginia Wildrye	<i>Elymus virginicus</i>	FACW-	10%
Indiangrass	<i>Sorghastrum nutans</i>	UPL	9%
Marsh (Dense) Blazing Star (Spiked Gayfeather)	<i>Liatris spicata</i>	FAC+	4%
Partridge Pea	<i>Chamaecrista fasciculata</i>	FACU	4%
Tall White Beardtongue	<i>Pennisetum digitale</i>	FAC	3%
Black-eyed Susan	<i>Rudbeckia hirta</i>	FACU-	3%
Golden Alexanders	<i>Zizia aurea</i>	FAC	3%
Purple Coneflower	<i>Echinacea purpurea</i>	NI	3%
Ohio Spiderwort	<i>Tradescantia ohioensis</i>	FAC	3%
Gray Goldenrod	<i>Solidago nemoralis</i>	NI	3%
Wild Senna	<i>Senna hebecarpa</i>	FAC	2%
Zizania Aster	<i>Aster prenanthoides</i>	FAC	2%
Blue Indigo	<i>Baptisia australis</i>	NI	2%
Bird Bergamot	<i>Monarda fistulosa</i>	UPL	1%
Oxeye Sunflower	<i>Heliopsis helianthoides</i>	NI	1%
Early Goldenrod	<i>Solidago juncea</i>	NI	1%
New England Aster	<i>Aster novae-angliae</i>	FACW-	1%
Smooth Blue Aster	<i>Aster laevis</i>	NI	1%
Maryland Senna	<i>Senna marilandica</i>	FAC+	1%

Seed shall be applied at 20 lbs/acre

4 RESTORATION SEEDING PLAN

SEEDING AND PLANTING NOTES

- ALL PLUGS SHALL BE INSPECTED FOR HEALTH AND VITALITY BEFORE PLANTING.
- HERBACEOUS MIX PLUGS SHALL BE PLANTED ON 1 FOOT CENTERS. STRAW MULCH SHALL BE APPLIED IN AREAS SURROUNDING PLUGS FOR TEMPORARY STABILIZATION BEFORE THE PLUGS ESTABLISH.
- UPLAND SEED MIX SHALL BE APPLIED AT A RATE OF 20 LBS PER ACRE VIA HYDROSEEDING OR BY HAND. STRAW MULCH SHALL BE APPLIED OVER SEEDING AREAS FOR TEMPORARY STABILIZATION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Environmental Management
JUL 11 2012
Office of Water Resources

File Name: U:\CAD\PROJECTS\12\12\0051\258\012\0051Y258.03.DWG Date: 02/28/12 Plot Scale: 1:1

NO.	DATE	REVISION DESCRIPTION	INT.

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PROJECT ENGINEER: A.L.
DESIGNED BY: K.C.
DRAWN BY: G.M.
CHECKED BY: C.M.

PROJECT NO.: 0172.0035Y038
FILE NO.: 0172.0035Y258.03
SCALE: AS SHOWN
DATE: JUNE 2012

REMEDIAL ENGINEERING, P.C.
209 Shafter Street
Islandia, New York 11749 (631) 232-2600

PROJECT NAME: VANITY FAIR AREA ACCESS ROAD CULVERT UPGRADE
PROJECT FOR: EXXONMOBIL OIL CORPORATION
1001 WAMPANOAG TRAIL, EAST PROVIDENCE, RHODE ISLAND

TITLE: SEDIMENT AND EROSION CONTROL DETAILS

DRAWING NO.: C-4
DRAWING 4 OF 4