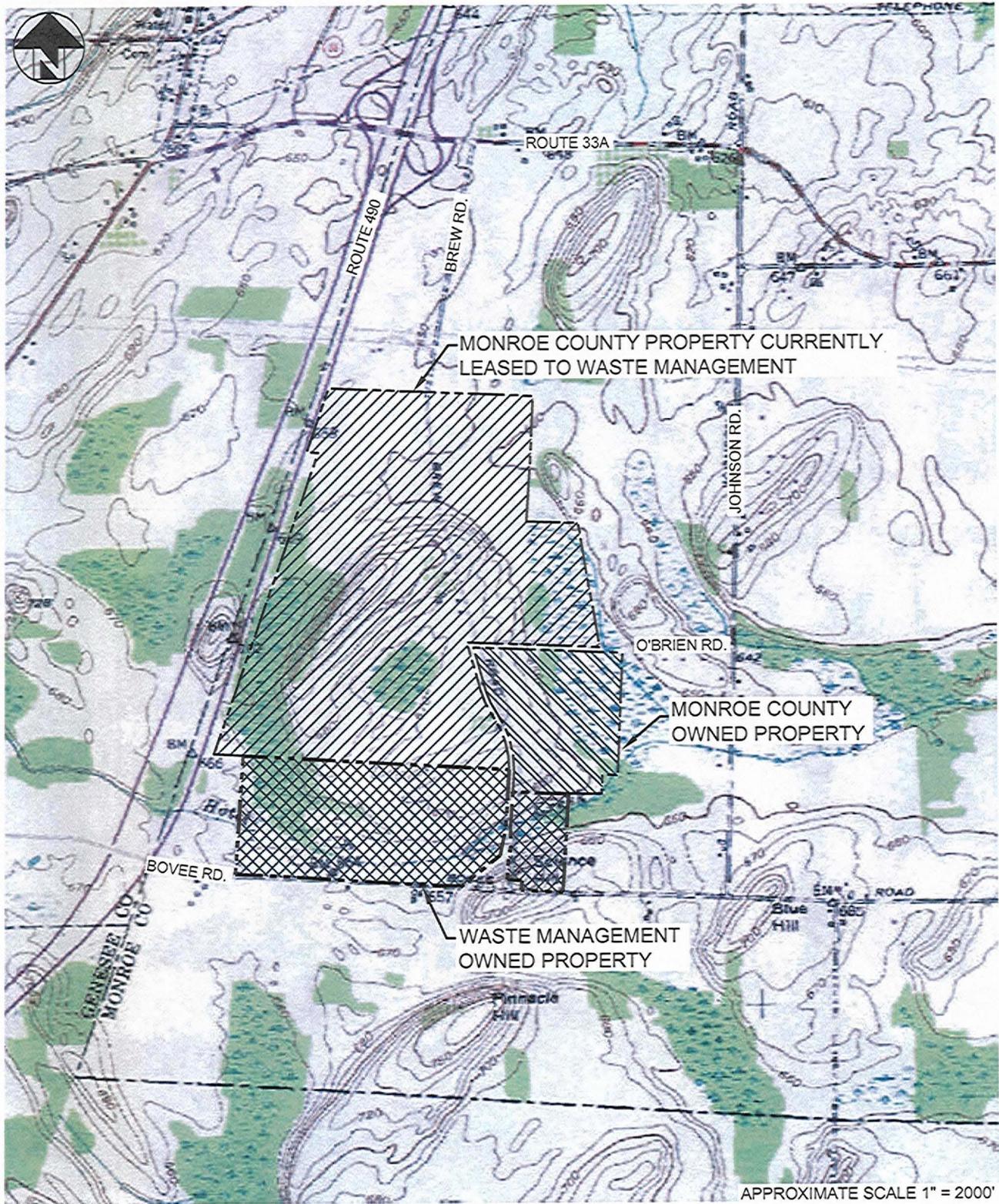


FIGURES



NOTE:

1. Base map adapted from 7.5 minute series USGS map of Churchville, NY dated 1950 and photorevised 1978.

McMahon & Mann
 Consulting Engineers, P.C.
 2495 MAIN STREET, SUITE 432
 BUFFALO, NY 14214
 (716) 834-8932
 FAX: (716) 834-8934

MILL SEAT FACILITY

MONROE COUNTY NEW YORK

SITE LOCATION MAP

DWG. NO.08015-019

FIGURE 1



1 FACILITY SITE PLAN
2/2 SCALE: 1" = 400'



LEGEND	
---660---	EXISTING GROUND CONTOURS (SEE NOTE 1)
---	EXISTING ROAD
---	WASTE MANAGEMENT PROPERTY LINE (SEE NOTE 2)
---	MONROE COUNTY PROPERTY LINE (SEE NOTE 2)
---	EXISTING TREE LINE
---	EXISTING WATER BOUNDARY
---	LANDFILL STAGE LIMITS
---	PROPOSED BORROW AREA LIMITS
---	HOTEL CREEK
	100' NYSDEC WETLAND BUFFER (SEE NOTE 3)
	DELINEATED NYSDEC WETLANDS (SEE NOTE 3)
	NON JURISDICTIONAL DELINEATED WETLAND (SEE NOTE 3)
TP84-1	TEST PIT LOCATION AND DESIGNATION (SEE NOTE 4)
B105	TEST BORING LOCATION AND DESIGNATION (SEE NOTE 4)
M-4A	MONITORING WELL LOCATION AND DESIGNATION (SEE NOTE 4)
PC-7Z	PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)
SB-3 (2006)	2006 SOIL BORING LOCATION AND DESIGNATION (SEE NOTE 4)
MW-2 (2006)	2006 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (SEE NOTE 4)
TP-1 (2006)	2006 TEST PIT LOCATION AND DESIGNATION (SEE NOTE 4)
PZ-4 (2006)	2006 PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)
PZ-01	2008 PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)
SG-4	STAFF GAUGE LOCATION AND DESIGNATION (SEE NOTE 4)
SB-09	2008 SOIL BORING LOCATION AND DESIGNATION (SEE NOTE 4)
SB-03-2010	2010 SOIL BORING LOCATION AND DESIGNATION (SEE NOTE 4)
PZ-01-2010	2010 PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)

- NOTES:
- Existing site topography and features are based on aerial photography dated July 2, 2008 compiled by Aero-Metric.
 - Property lines were provided by Golder Associates from drawing file X07386309A-Property Line and by Passero Associates from drawing file 200765103bsBovee.
 - Wetland boundaries and buffers are based on record drawings prepared by Clark Engineers & Associates titled "Site Plan 1 of 5 to Site Plan 5 of 5" dated 1994 and Barton & Loguidice, P.C. Wetland Delineation Map dated August 12, 2009.
 - Test pit, boring, piezometer, groundwater monitoring well and staff gauge locations are based on information presented on Figure 3 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.

McMahon & Mann
Consulting Engineers, P.C.
2456 MAIN STREET, SUITE 402
BUFFALO, NY 14214
FAX: (716) 834-8934

REV 1	REV 2	REV 3	REV 4	REV 5	REV 6
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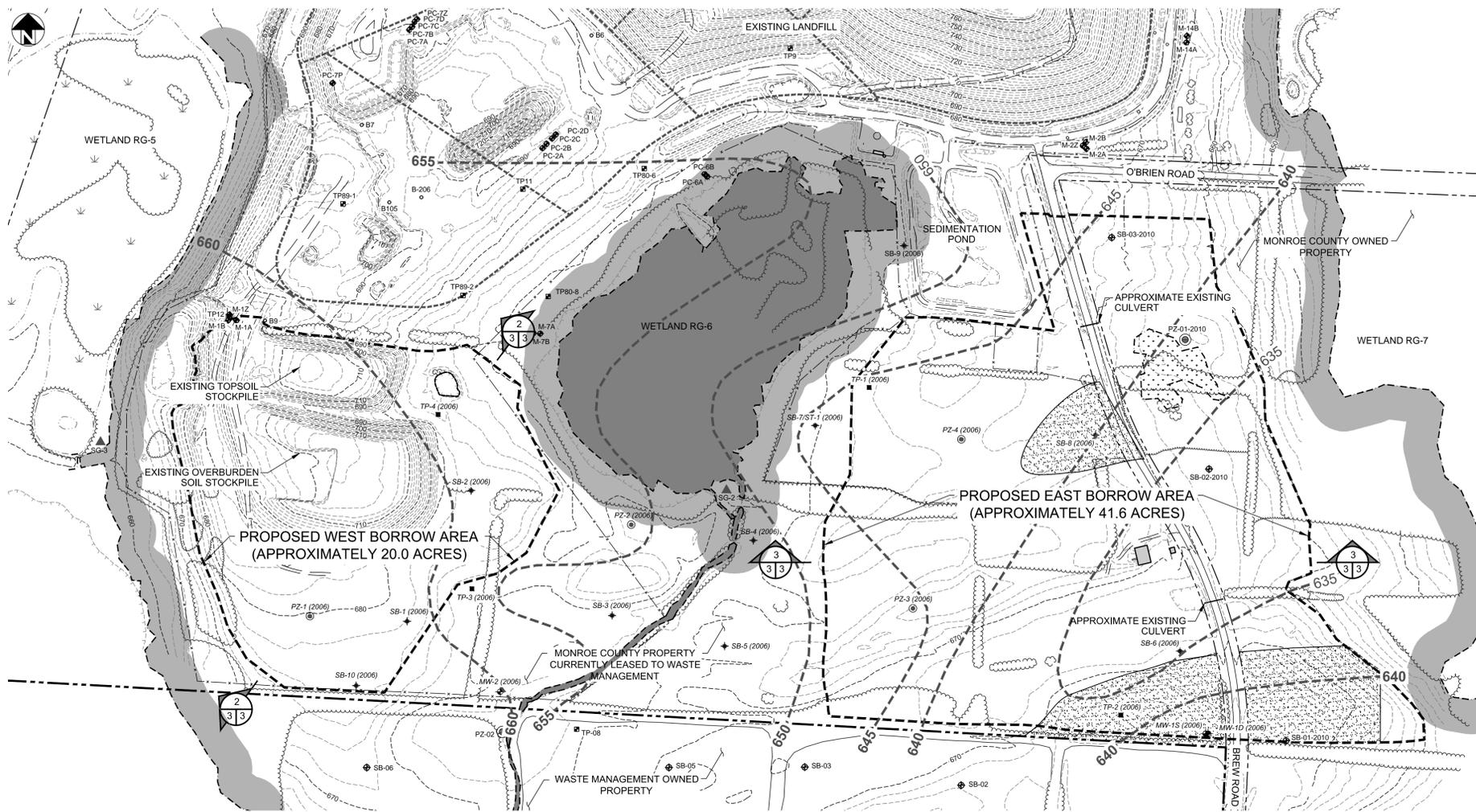
NEW YORK

MILL SEAT FACILITY -
FACILITY SITE PLAN

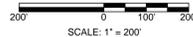
MONROE COUNTY

DRAWN BY:	C.R.G.
DESIGNED BY:	A.J.N.
CHECKED BY:	M.J.M.
SCALE:	1" = 400'
DATE:	JANUARY 2011
JOB NO.:	08-015
FIGURE:	2
DWG. NO.:	08015-001
REVISION NUMBER:	0

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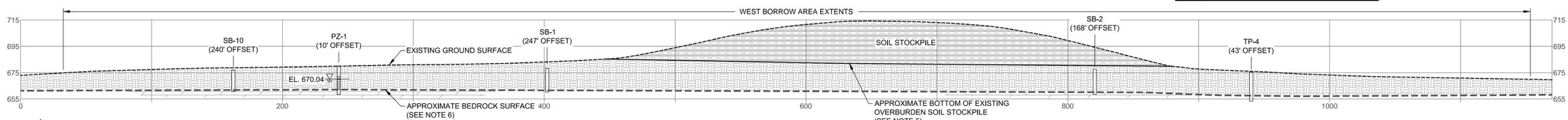


1 EXISTING CONDITIONS PLAN
SCALE: 1" = 200'

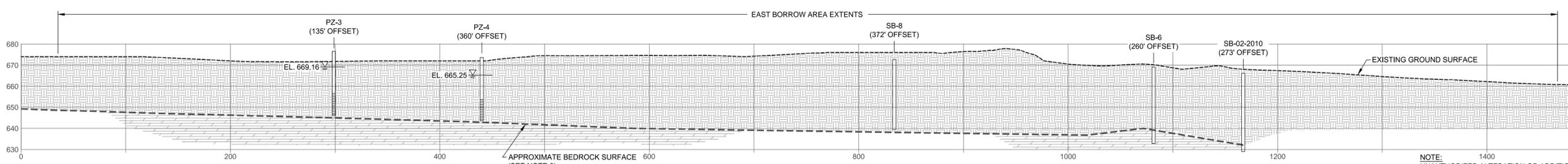


LEGEND	
---690---	EXISTING GROUND CONTOURS (SEE NOTE 1)
=====	EXISTING ROAD
-----	WASTE MANAGEMENT PROPERTY LINE (SEE NOTE 2)
-----	MONROE COUNTY PROPERTY LINE (SEE NOTE 2)
~~~~~	EXISTING TREE LINE
-----	EXISTING FENCE LINE
-----	EXISTING WATER BOUNDARY
-----	PROPOSED BORROW AREA LIMITS
-----	LANDFILL STAGE LIMITS
█	100' WETLAND BUFFER (SEE NOTE 3)
█	DELINEATED WETLANDS (SEE NOTE 3)
█	NON JURISDICTIONAL DELINEATED WETLAND (SEE NOTE 3)
TP64-1	TEST PIT LOCATION AND DESIGNATION (SEE NOTE 4)
B105	TEST BORING LOCATION AND DESIGNATION (SEE NOTE 4)
M-4A	MONITORING WELL LOCATION AND DESIGNATION (SEE NOTE 4)
PC-7Z	PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)
SB-3 (2006)	2006 SOIL BORING LOCATION AND DESIGNATION (SEE NOTE 4)
MW-2 (2006)	2006 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (SEE NOTE 4)
TP-1 (2006)	2006 TEST PIT LOCATION AND DESIGNATION (SEE NOTE 4)
PZ-4 (2006)	2006 PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)
PZ-01	2008 PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)
SG-4	STAFF GAUGE LOCATION AND DESIGNATION (SEE NOTE 4)
SB-09	2008 SOIL BORING LOCATION AND DESIGNATION (SEE NOTE 4)
SB-03-2010	2010 SOIL BORING LOCATION AND DESIGNATION (SEE NOTE 4)
PZ-01-2010	2010 PIEZOMETER LOCATION AND DESIGNATION (SEE NOTE 4)
-640-	APPROXIMATE BEDROCK CONTOUR (SEE NOTE 6)
█	APPROXIMATE LOCATION OF SAND AND GRAVEL DEPOSITS (SEE NOTE 7)
EL. 670.04	APRIL 2008 WATER LEVEL (SEE NOTE 8)

- NOTES:**
- Existing site topography and features are based on aerial photography dated July 2, 2008 compiled by Aero-Metric.
  - Property lines were provided by Golder Associates from drawing file X07386309A-Property Line and by Passero Associates from drawing file 200765103bsBove.
  - Wetland boundaries and buffers are based on Barton & Loguidice, P.C. Wetland Delineation Map dated August 12, 2009.
  - Test pit, boring, piezometer, groundwater monitoring well and staff gauge locations are based on information presented on Figure 3 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.
  - Approximate bottom of existing stockpiles provided by Golder Associates.
  - Approximate bedrock contours and surface are as shown on Figure 11 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.
  - Approximate location of the sand and gravel deposits are based on information presented on Figure 10 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.
  - April 2008 groundwater information is based on groundwater elevations presented in Table 2 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.



**2 WEST BORROW AREA CROSS-SECTION**  
SCALE: 1" = 40'



**3 EAST BORROW AREA CROSS-SECTION**  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 25'

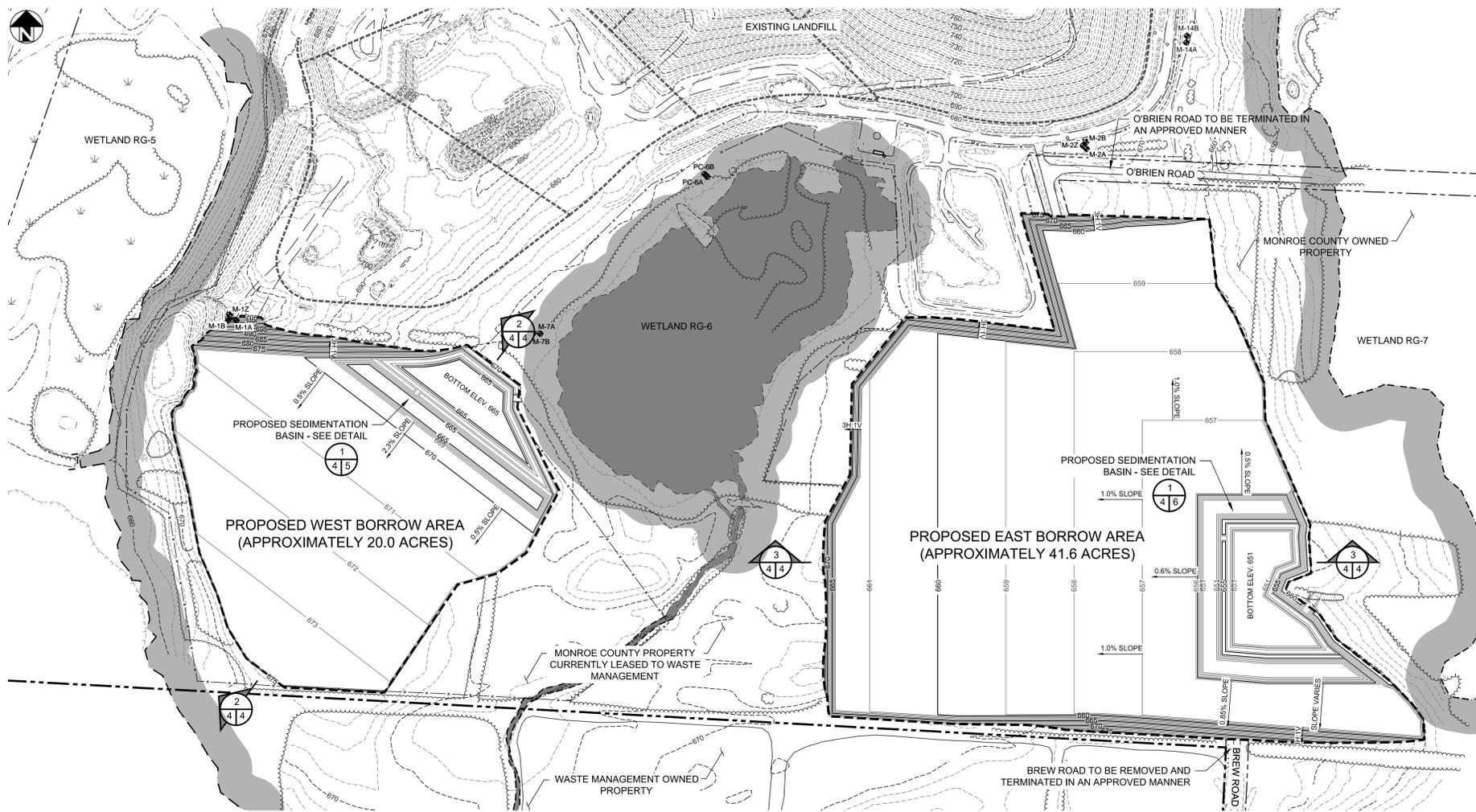
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Consulting Engineers, P.C.  
2455 MAIN STREET, SUITE 402  
BUFFALO, NY 14214  
FAX: (716) 834-8934

REV 1	REV 2	REV 3	REV 4	REV 5	REV 6
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**MILL SEAT FACILITY -  
EXISTING CONDITIONS PLAN AND  
CROSS SECTIONS**  
NEW YORK  
MONROE COUNTY

DRAWN BY: C.R.G.  
DESIGNED BY: A.J.N.  
CHECKED BY: M.J.M.  
SCALE: AS NOTED  
DATE: JANUARY 2011  
JOB NO. 08-015  
FIGURE 3  
DWG. NO. 08015-017  
REVISION NUMBER - 0

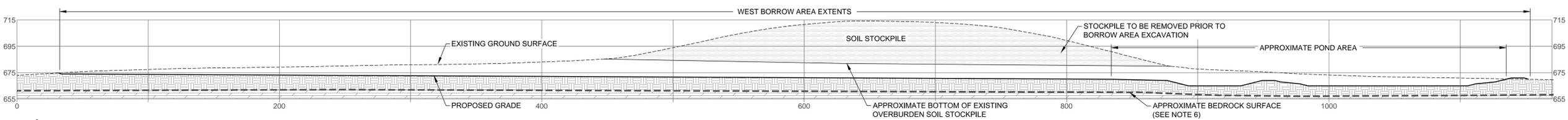


**LEGEND**

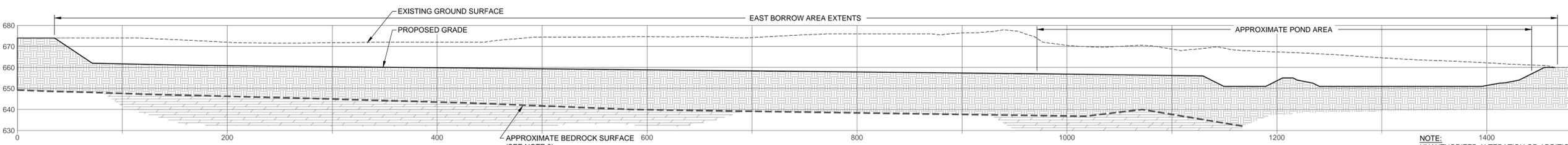
- 690 --- EXISTING GROUND CONTOURS (SEE NOTE 1)
- 660 --- PROPOSED BORROW AREA CONTOURS
- 659 --- EXISTING ROAD
- --- WASTE MANAGEMENT PROPERTY LINE (SEE NOTE 2)
- --- MONROE COUNTY PROPERTY LINE (SEE NOTE 2)
- --- EXISTING TREE LINE
- --- EXISTING FENCE LINE
- --- EXISTING WATER BOUNDARY
- --- PROPOSED BORROW AREA LIMITS
- --- LANDFILL STAGE LIMITS
- 100' WETLAND BUFFER (SEE NOTE 3)
- DELINEATED WETLANDS (SEE NOTE 3)
- M-4A MONITORING WELL LOCATION AND DESIGNATION (SEE NOTE 4)

- NOTES:**
- Existing site topography and features are based on aerial photography dated July 2, 2008 compiled by Aero-Metric.
  - Property lines were provided by Golder Associates from drawing file X07386309A-Property Line and by Passero Associates from drawing file 200765103bsBovee.
  - Wetland boundaries and buffers are based on Barton & Loguidice, P.C. Wetland Delineation Map dated August 12, 2009.
  - Groundwater monitoring well locations are based on information presented on Figure 3 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.
  - Approximate bottom of existing stockpiles provided by Golder Associates.
  - Approximate existing bedrock surface is based on information presented on Figure 11 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.

**1 RECLAMATION PLAN**  
SCALE: 1" = 200'



**2 WEST BORROW AREA CROSS-SECTION**  
SCALE: 1" = 40'



**3 EAST BORROW AREA CROSS-SECTION**  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 25'

NOTE:  
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**McMahon & Mann**  
Consulting Engineers, P.C.  
2456 MAIN STREET, SUITE 402  
BUFFALO, NY 14217  
PHONE: (716) 834-8933  
FAX: (716) 834-8934

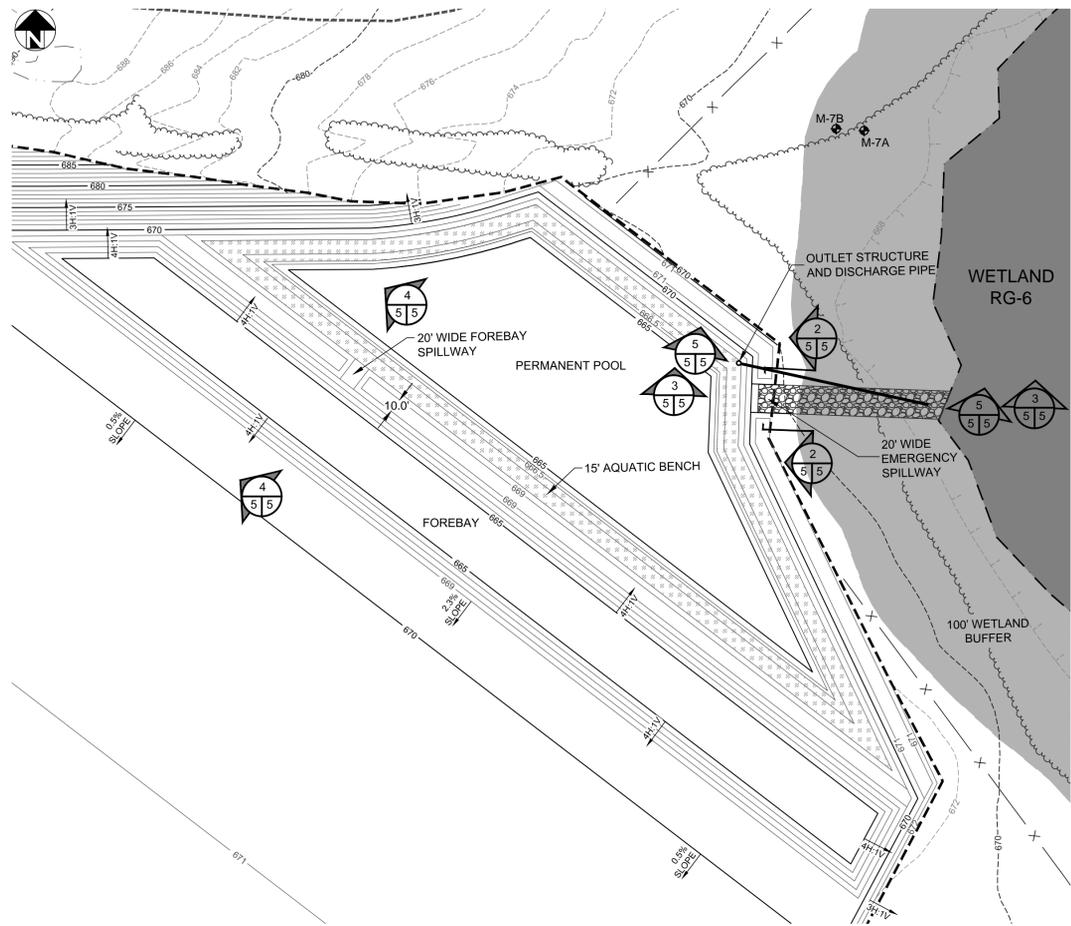
REV 1
REV 2
REV 3
REV 4
REV 5
REV 6

**MILL SEAT FACILITY -  
RECLAMATION PLAN AND CROSS  
SECTIONS**

NEW YORK

MONROE COUNTY

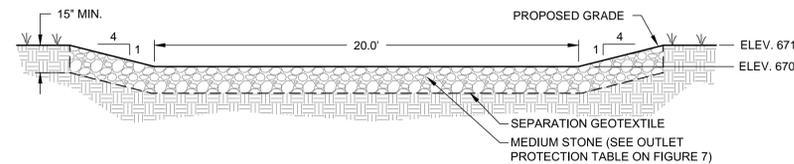
DRAWN BY: C.R.G.
DESIGNED BY: A.J.N.
CHECKED BY: M.J.M.
SCALE: AS NOTED
DATE: JANUARY 2011
JOB NO. 08-015
FIGURE 4
DWG. NO. 08015-018
REVISION NUMBER - 0



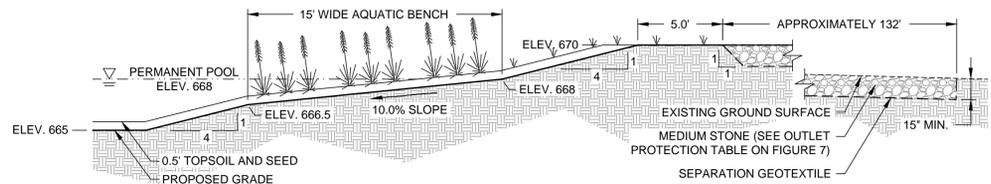
**1 WEST AREA SEDIMENTATION BASIN PLAN**  
SCALE: 1" = 60'

LEGEND	
--- 680 ---	EXISTING GROUND CONTOURS (SEE NOTE 1)
--- 660 ---	PROPOSED BORROW AREA CONTOURS
~~~~~	EXISTING TREE LINE
-X-	EXISTING FENCE LINE
- - -	EXISTING WATER BOUNDARY
- - - - -	PROPOSED BORROW AREA LIMITS
- - - - -	LANDFILL STAGE LIMITS
⬢	100' WETLAND BUFFER (SEE NOTE 2)
⬢	DELINEATED WETLANDS (SEE NOTE 2)
▨	PROPOSED AQUATIC BENCH
⊕	MONITORING WELL LOCATION AND DESIGNATION (SEE NOTE 3)

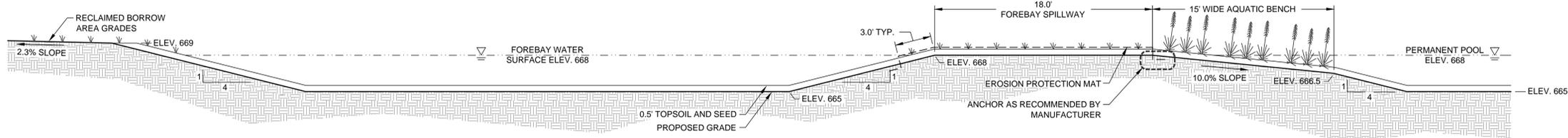
NOTES:
 1. Existing site topography and features are based on aerial photography dated July 2, 2008 compiled by Aero-Metric.
 2. Wetland boundaries and buffers are based on Barton & Loguidice, P.C. Wetland Delineation Map dated August 12, 2009.
 3. Groundwater monitoring well locations are based on information presented on Figure 3 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.



2 SPILLWAY CROSS SECTION
SCALE: 1" = 4'



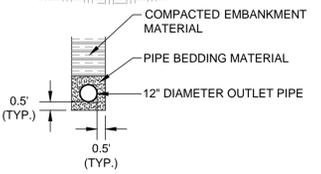
3 SPILLWAY SECTION
SCALE: 1" = 5'



4 SECTION THROUGH FOREBAY AND PERMANENT POOL
SCALE: 1" = 5'



5 SECTION THROUGH OUTLET PIPE
SCALE: 1" = 5'



SECTION A-A

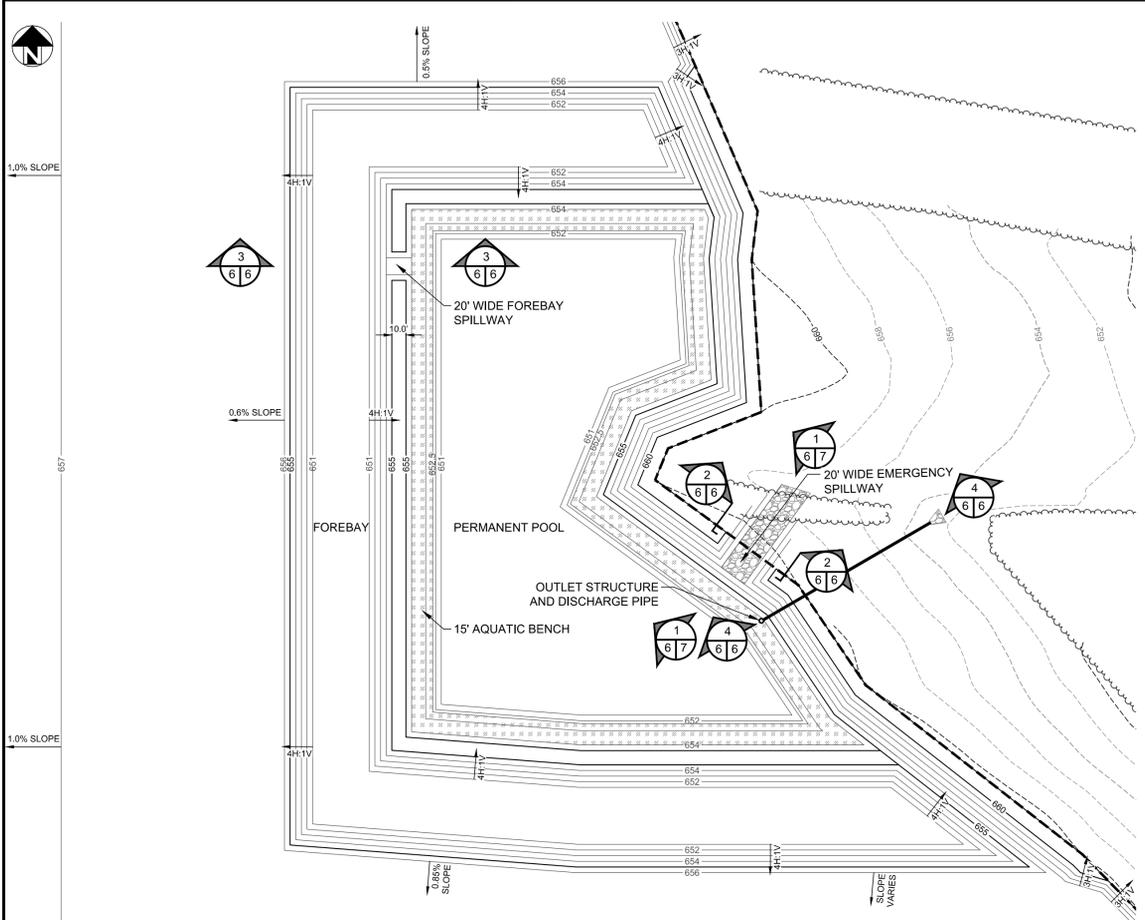
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 Consulting Engineers, P.C.
 2456 MAIN STREET, SUITE 402
 BUFFALO, NY 14214
 FAX: (716) 834-8834

REV 1	REV 2	REV 3	REV 4	REV 5	REV 6
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MILL SEAT FACILITY - WEST AREA SEDIMENTATION BASIN PLAN AND SECTIONS
 MONROE COUNTY NEW YORK

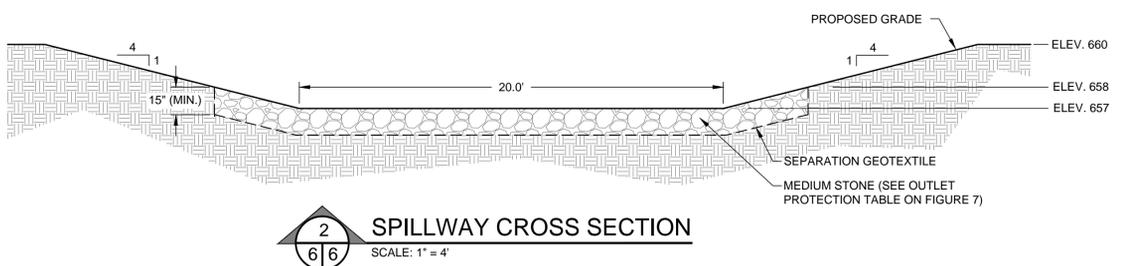
DRAWN BY:	C.R.G.
DESIGNED BY:	A.J.N.
CHECKED BY:	M.J.M.
SCALE:	AS NOTED
DATE:	JANUARY 2011
JOB NO.	08-015
FIGURE	5
DWG. NO.	08015-028a
REVISION NUMBER	0



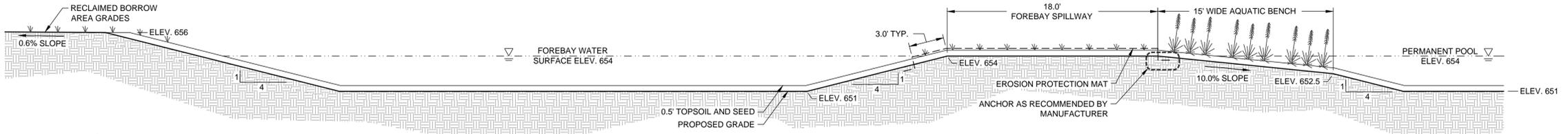
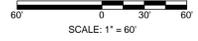
LEGEND

- 690 --- EXISTING GROUND CONTOURS (SEE NOTE 1)
- 658 --- EXISTING GROUND CONTOURS (SEE NOTE 1)
- 660 — PROPOSED BORROW AREA CONTOURS
- 659 — PROPOSED BORROW AREA CONTOURS
- ~ ~ ~ EXISTING TREE LINE
- X - EXISTING FENCE LINE
- - - EXISTING WATER BOUNDARY
- - - PROPOSED BORROW AREA LIMITS
- █ 100' WETLAND BUFFER (SEE NOTE 2)
- █ DELINEATED WETLANDS (SEE NOTE 2)
- █ PROPOSED AQUATIC BENCH
- M-1B ◊ MONITORING WELL LOCATION AND DESIGNATION (SEE NOTE 3)

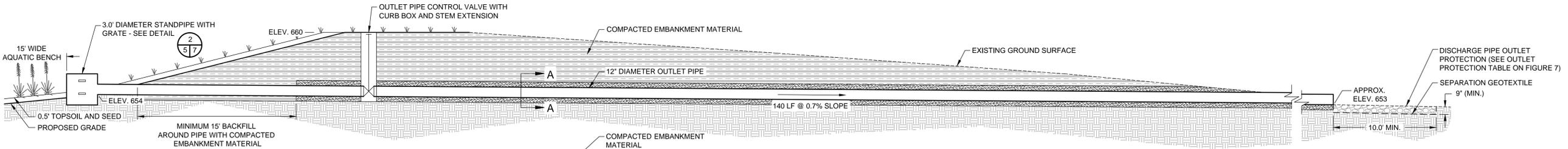
NOTES:
 1. Existing site topography and features are based on aerial photography dated July 2, 2008 compiled by Aero-Metric.
 2. Wetland boundaries and buffers are based on Barton & Loguidice, P.C. Wetland Delineation Map dated August 12, 2009.
 3. Groundwater monitoring well locations are based on information presented on Figure 3 of the Hydrogeologic Investigation Report prepared by AMEC Geomatrix dated January 2011.



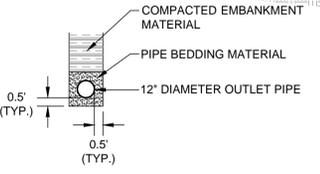
1 EAST AREA SEDIMENTATION BASIN PLAN
 SCALE: 1" = 60'



3 SPILLWAY SECTION
 SCALE: 1" = 5'



4 SECTION THROUGH OUTLET PIPE
 SCALE: 1" = 5'



SECTION A-A

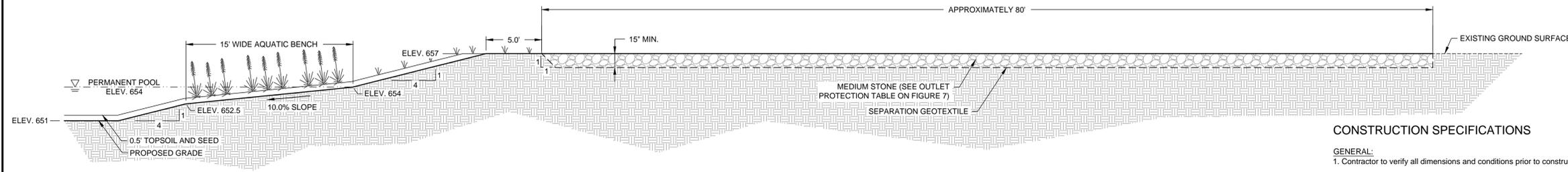
NOTE:
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 748 W. MAIN ST., SUITE 402
 BUFFALO, NY 14214
 FAX: (716) 834-8834

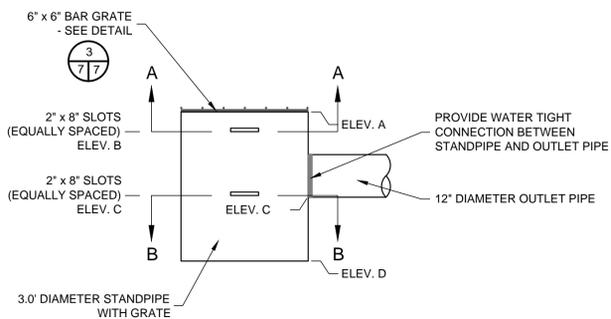
REV 1
REV 2
REV 3
REV 4
REV 5
REV 6

MILL SEAT FACILITY - EAST AREA SEDIMENTATION BASIN PLAN AND SECTIONS
 MONROE COUNTY NEW YORK

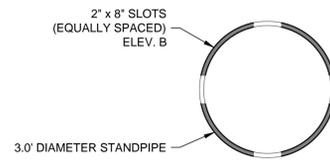
DRAWN BY: C.R.G.
DESIGNED BY: A.J.N.
CHECKED BY: M.J.M.
SCALE: AS NOTED
DATE: JANUARY 2011
JOB NO. 08-015
FIGURE 6
DWG. NO. 08015-028b
REVISION NUMBER - 0



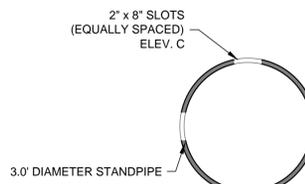
1 SPILLWAY SECTION
 SCALE: 1" = 5'



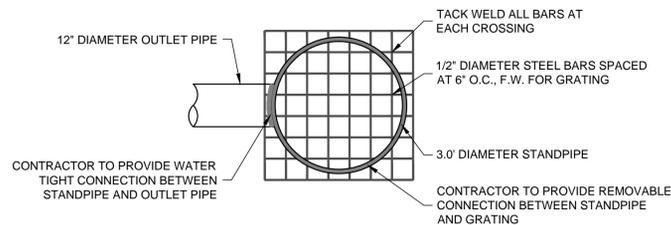
2 STANDPIPE DETAIL
 SCALE: N.T.S.



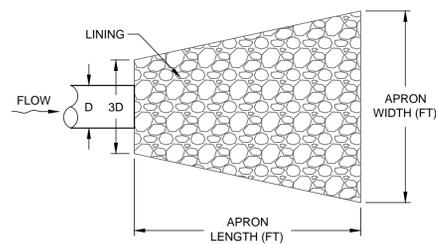
SECTION A-A



SECTION B-B



3 STANDPIPE GRATE DETAIL
 SCALE: N.T.S.



4 OUTLET DETAIL
 SCALE: N.T.S.

STANDPIPE SLOT AND ELEVATION TABLE

ELEVATION LABEL	WEST AREA STANDPIPE ELEVATIONS	EAST AREA STANDPIPE ELEVATIONS	WEST AREA NUMBER OF STANDPIPE SLOTS	EAST AREA NUMBER OF STANDPIPE SLOTS
A	669.50	656		
B	668.75	655.25	2	4
C	668	654	2	4
D	667	653		

OUTLET PROTECTION TABLE (SEE DETAIL 4)

DESIGNATION	REQUIRED LINING	REVETMENT THICKNESS (INCHES)	APRON WIDTH (FT)	APRON LENGTH (FT)
12" EAST BASIN OUTLET PIPE	LIGHT STONE	9	11	10
EMERGENCY SPILLWAY	MEDIUM STONE	15	AS SHOWN	AS SHOWN

CONSTRUCTION SPECIFICATIONS

GENERAL:

- Contractor to verify all dimensions and conditions prior to construction.
- Any questions regarding these drawings shall be directed to McMahon & Mann Consulting Engineers, P.C. (MMCE) (716-834-8932). Modifications will only be made in writing.
- The Contractor will be responsible for construction layout.
- The Contractor will be required to comply with all of the applicable Mill Seat Facility Permits.

EXCAVATION AND BACKFILL:

- All excavations shall be performed in accordance with OSHA regulations.
- Excess excavated material shall be disposed of in locations designated by Waste Management of New York (WMNY).
- Unsuitable materials shall be legally disposed of, coordinate with WMNY for disposal locations.
- Existing underground utility locations are unknown and must be confirmed with WMNY and utility companies prior to any excavation.
- Embankment material shall be obtained from the excavation and shall be recompacted to 90% of the Modified Proctor (ASTM D1557) maximum dry density. Embankment material shall be on-site till material not containing material greater than 10 inches in size, organics or other deleterious materials. Embankment material shall be placed in compacted lifts not exceeding 12 inches in thickness.
- Pipe bedding shall meet the requirements for subbase Type 4 stated in Section 3.04 of the NYSDOT Standard Specifications. Material shall be compacted to 90% of the Modified Proctor (ASTM D1557) maximum dry density.

STORMWATER DRAINAGE:

- Outlet pipes and standpipes shall be 12 inch and 36 inch diameter as shown on the drawings. Pipe shall be corrugated exterior polyethylene pipe with a smooth interior wall. Pipe shall meet the requirements stated in AASHTO M294 for type 5 pipe.
- Light stone rip-rap shall meet the requirements for light stone filling stated in Section 620-2 of NYSDOT Standard Specifications. Medium stone rip-rap shall meet the requirements for medium stone filling stated in Section 620-2 of NYSDOT Standards and Specifications. Installation shall be in accordance with Section 620-3 of the NYSDOT Standard Specifications.
- All disturbed areas shall be seeded and mulched, using the following seed mix:

Birdsfoot Trefoil	25 lbs. / acre
Common White Clover	25 lbs. / acre
Tall Fescue	100 lbs. / acre
Perennial Ryegrass	50 lbs. / acre
- Separation Geotextile shall be a non-woven geotextile with a minimum mass per unit area of 6 oz. meeting the requirements of Geotex 701 or approved equivalent. Installation shall be in accordance with the Manufacturer's recommendations.
- Erosion Protection Mat shall consist of a polypropylene fiber mat specially designed for erosion control applications on steep slopes and vegetated waterways such as C350 permanent turf reinforcement manufactured by North American Green (NAG) or Engineer approved. Installation shall be in accordance with the Manufacturer's recommendation.
- Valves shall be flanged 12 inch quarter turn ball valves. The valves shall be either thermoplastic, HDPE or approved equivalent. The valves shall be equipped with valve stems and curb boxes to allow access at the elevations shown on the Contract Drawings. The curb boxes shall be installed with a removable cover capable of withstanding AASHTO HS-20 loads.

AQUATIC PLANTINGS:

- Aquatic bench will be planted with a combination of some or all of the following submerged or floating stemmed aquatics:
 - Submerged Aquatics: Coontail, Pond Weed, Water Weed, Lond-Leaved Pond Weed and Wild Celery.
 - Floating Stemmed Aquatics: Spatterdock, Duckweed, Watershield, Water Cress, Rice Cutgrass, Bay Forget Me Not, Swamp Smartweed, Water Smartweed, White Water Lily and Pale Mannagrass.
- Other plantings may be allowed if the plants are capable of withstanding constant inundation of water to depths of 1 foot.
- No one individual species of submerged or floating aquatics may exceed 10 percent of the total proposed for the project.
- Spacing of plantings shall be based on Manufacturer's recommendations. The plantings shall have a two year warranty.

Aquatic plants mentioned above are available from Southern Tier Consulting, Inc. and can be contacted at:

Southern Tier Consulting, Inc.
 2701-A Route 305
 P.O. Box 30
 West Clarksville, NY 14786
 Phone (585) 968-3120
 Web Site: www.southern-tierconsulting.com

These Plants may be available through other suppliers, Southern Tier Consulting, Inc. is listed for reference only.

REV 1	REV 2	REV 3	REV 4	REV 5	REV 6
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NEW YORK

**MILL SEAT FACILITY -
 SECTIONS AND DETAILS**

MONROE COUNTY

DRAWN BY: C.R.G.
DESIGNED BY: A.J.N.
CHECKED BY: M.J.M.
SCALE: AS NOTED
DATE: JANUARY 2011
JOB NO. 08-015
FIGURE 7
DWG. NO. 08015-028c
REVISION NUMBER - 0

NOTE:
 UNAUTHORIZED ALTERATION OR ADDITION
 TO ANY SURVEY, DRAWING, DESIGN,
 SPECIFICATION, PLAN, OR REPORT IS A
 VIOLATION OF SECTION 7209 PROVISION 2 OF
 THE NEW YORK STATE EDUCATION LAW.