

Facultative Pond 5 Construction Drawings

NOTE: The following 14 Fac Pond 5 Drawings are to be added to Appendix D-2.

FAC POND 5 PERMIT DRAWINGS

CWM CHEMICAL SERVICES, LLC
MODEL CITY, NIAGARA COUNTY
NEW YORK

FEBRUARY 2013

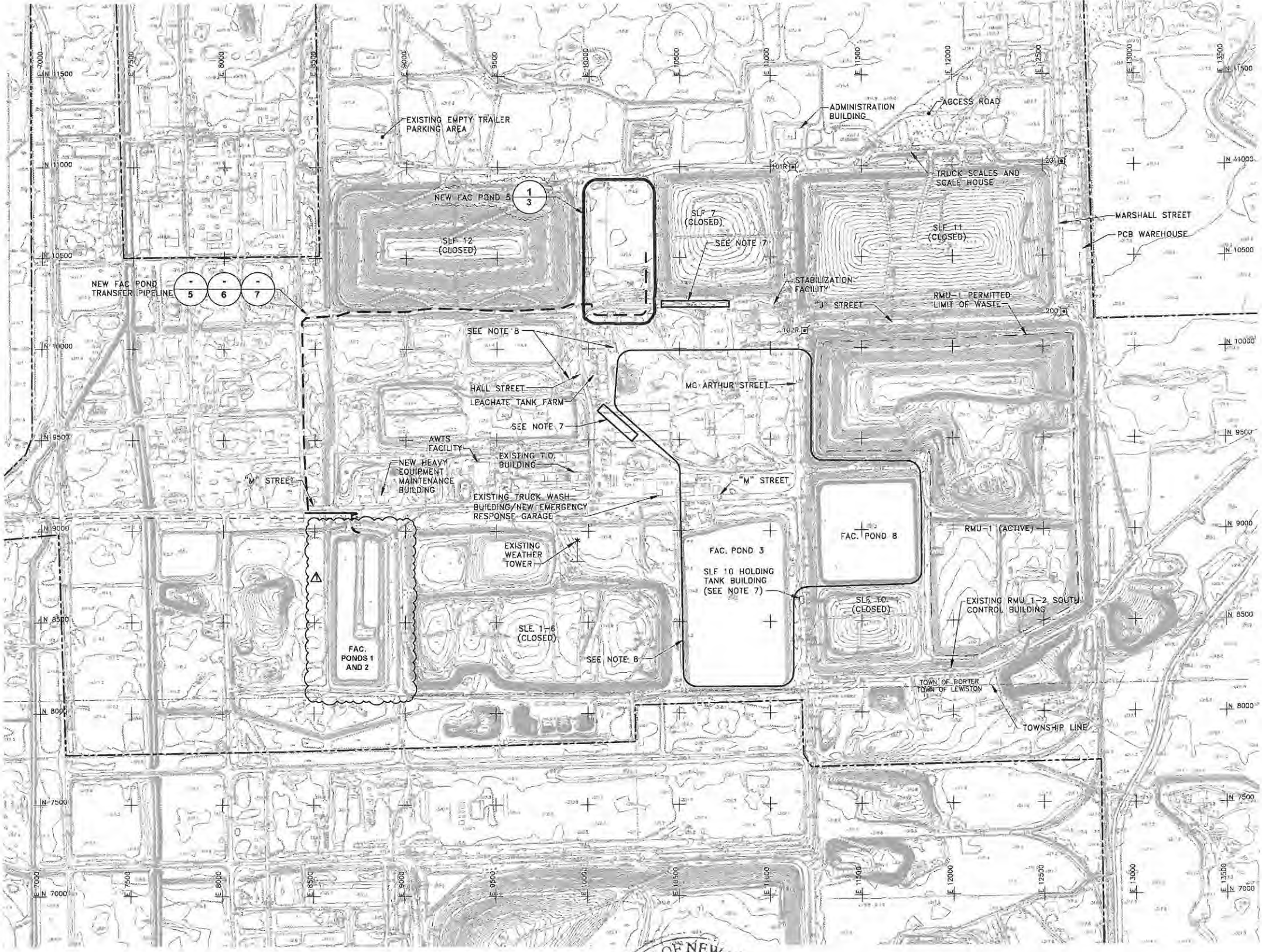


INDEX TO DRAWINGS

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14	FAC POND TRANSFER PIPELINE DETAILS

NOT TO SCALE		Professional Engineer's Name: JOSEPH MOLINA		 ARCADIS		CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK FAC POND 5 PERMIT DRAWINGS		ARCADIS Project No. B0023725.2013.00003	
		Professional Engineer's No. 072644				Date: FEBRUARY 2013		ARCADIS of New York, Inc. 6723 Townshill Road P.O. Box 66 Syracuse, New York TEL. 315.446.9120	
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING		USE TO VERIFY FIGURE REPRODUCTION SCALE		State: NY		Date Signed: 11/5/13		Project Name: TJF	
11/2013 REMOVED FAC POND 1/2 RECONSTRUCTION		GNG BMS By Ckd		Designed by: RMS/PTO		Drawn by: RMS		Checked by: RMS	
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				GENERAL					

CITY: SYRACUSE, NY DIVISION: ENVIRONMENTAL ENGINEERING DB: K. DAVIS PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LVR: ON=OFF=REF= LAYOUT: 2 SAVED: 11/1/2013 11:20 AM ACADVER: 18.1 (LMS TECH) PAGES: 2 PLOT: 11/1/2013 11:20 AM BY: DAVIS, KATHI
XREFS: 23725X02 23725X01 23725X00
PROJECT NAME: CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK
FAC POND 5 PERMIT DRAWINGS



- LEGEND:**
- BRUSHLINE
 - CABLE MARKER
 - CATCH BASIN
 - DROP INLET
 - FENCE
 - FIRE HYDRANT
 - GUARD RAIL
 - LIGHT POLE
 - MISCELLANEOUS POLE
 - MONUMENT
 - POST
 - RAILROAD TRACKS
 - SIGN
 - SWAMP
 - TRAFFIC LIGHT
 - TREE
 - TREELINE
 - UNIDENTIFIED OBJECT
 - UTILITY POLE
 - VALVE
 - WATER LINE
 - EXISTING CONTOUR
 - EXISTING GRADEBREAK
 - PROPERTY LINE

200' CONTROL MONUMENT (SEE TABLE BELOW)

1 - DETAIL REFERENCE NUMBER
3 - DRAWING REFERENCE NUMBER

13500
N 7000 COORDINATE GRID (SEE NOTE 3)

RMU-1/RMU-2 CONTROL MONUMENTS								
MONUMENTS	ELEVATION	CWM PLANT GRID		RMU-1 GRID		NY STATE PLANE COORDINATES (NAD=27)		NGVD-29 ELEVATION
		NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING	
102R	319.72	100+94.55	111+87.56	100+94.65	11+87.56	1,175,430.46	396,380.12	319.66
200	318.33	101+89.56	126+13.77	101+89.56	26+13.77	1,175,488.28	397,808.18	318.27
101R	318.01	109+94.28	111+23.09			1,175,331.436	396,339.034	315.92
201	316.82	110+17.82	126+3.49					

CONTROL MONUMENTS NOTE:

1. RMU-1 EASTING GRID COORDINATES ARE SIMPLIFIED PLANT GRID COORDINATES. SUBTRACTING 10,000 FROM THE CWM PLANT GRID EASTING COORDINATE WILL CONVERT THE CWM PLANT GRID TO THE RMU-1 GRID. NOTE THAT NO CONVERSION IS REQUIRED FOR NORTHING COORDINATES.

NOTES:

1. TOPOGRAPHIC BASE MAP CONSISTS OF COMBINATION OF DATA COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 5/31/01 BY AIR SURVEY CORP. (PROJECT NO.71010503). AND AN AUGUST 2008 SURVEY BY ENSOL, INC.
2. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
3. GRID COORDINATES SHOWN ARE CWM PLANT GRID.
4. CONTOUR INTERVAL 2 FT.
5. DASHED CONTOURS INDICATE THAT GROUND IS PARTIALLY OBSCURED BY VEGETATION OR SHADOWS. THESE AREAS MAY NOT MEET STANDARD ACCURACY AND REQUIRE FIELD VERIFICATION.
6. PROPERTY LINE IS APPROXIMATE. EASEMENTS AND RIGHT-OF-WAYS NOT SHOWN.
7. REFER TO DRAWINGS IN ATTACHMENT D-1 OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.
8. REFER TO DRAWINGS IN ATTACHMENT J FOR FURTHER DETAIL.



Revisions		By	Ckd
No.	Date		
1	11/2013	REMOVED FAC POND 1/2 RECONSTRUCTION	GNG/BMS

Professional Engineer's Name
JOSEPH MOLINA

Professional Engineer's No.
072644

Date
NY

Date Signed
11/5/13

Project Mgr
TJF

Designed by
BMS/PTO

Drawn by
SJK

Checked by
BMS

ARCADIS OF NEW YORK, INC.

CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK
FAC POND 5 PERMIT DRAWINGS

SITE PLAN

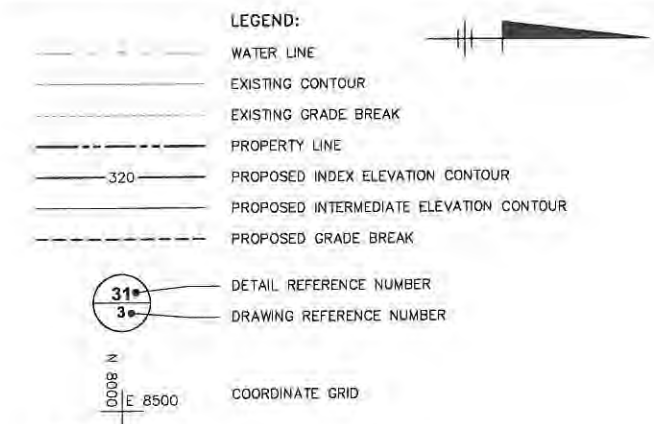
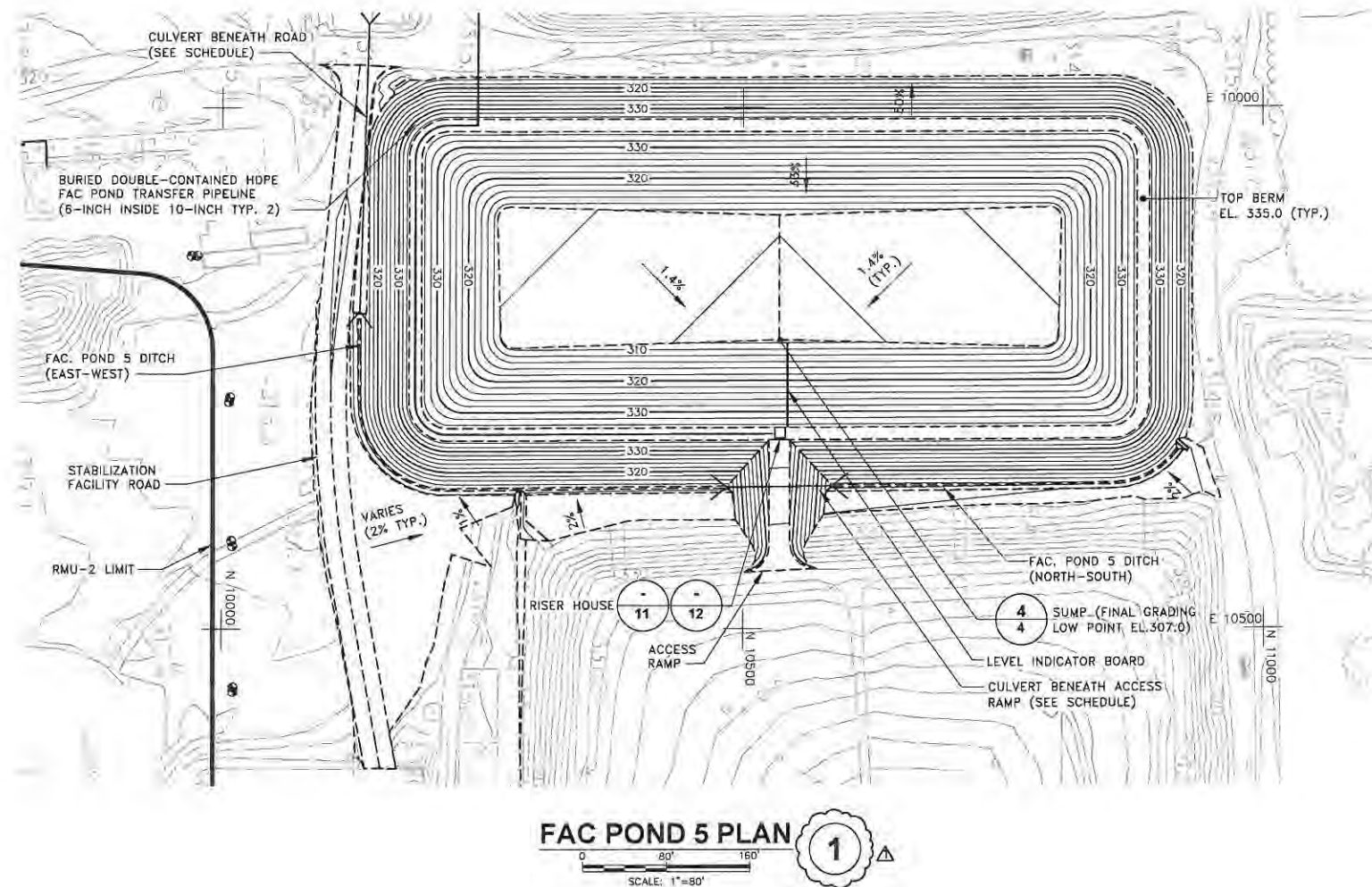
GENERAL

ARCADIS Project No.
80023725.2013.00003

Date
FEBRUARY 2013

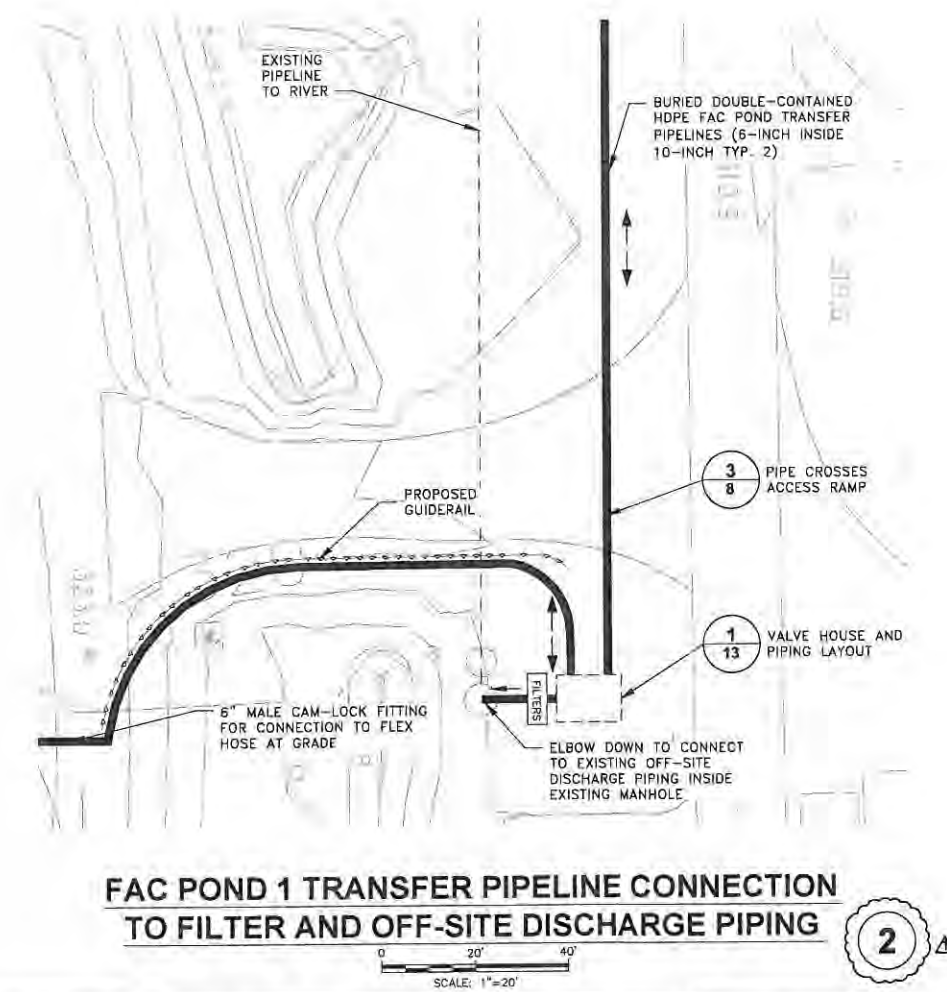
ARCADIS of New York, Inc.
8723 Townpath Road
P.O. Box 66
Syracuse, New York
TEL 315.446.9120

CITY: SYRACUSE DIV: GROUP: ENV: CAD: DB: K. DAVIS PIC: W. PORHAM PM: W. RANKIN TM: B. STONE LVR: ON=OFF=REF-
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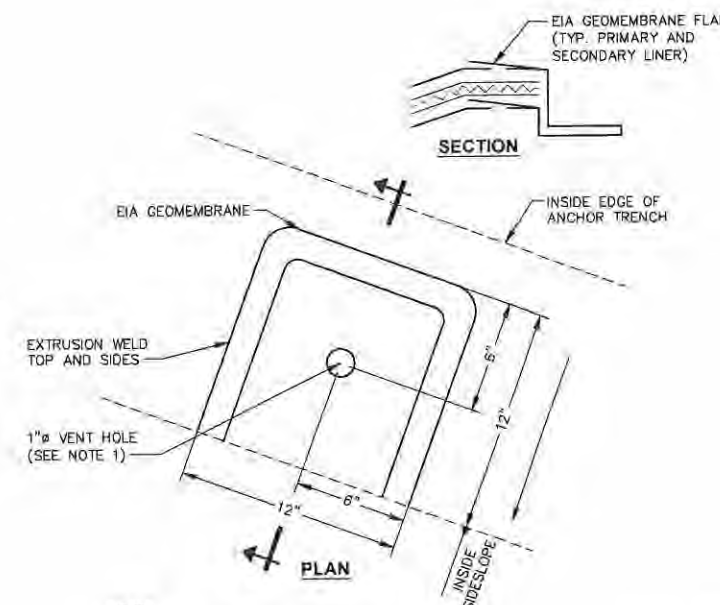
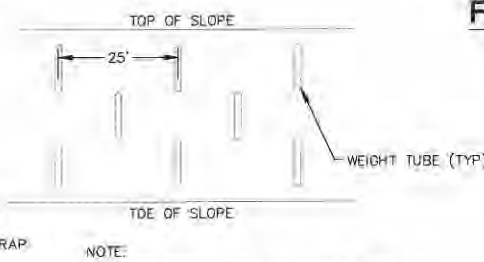
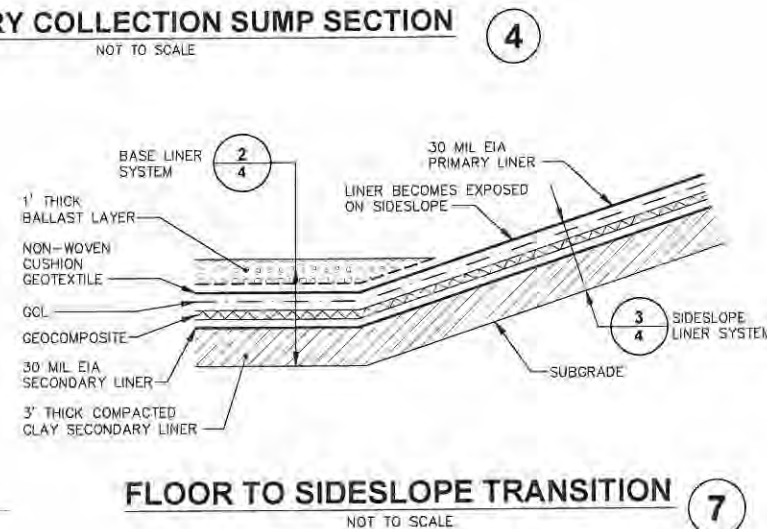
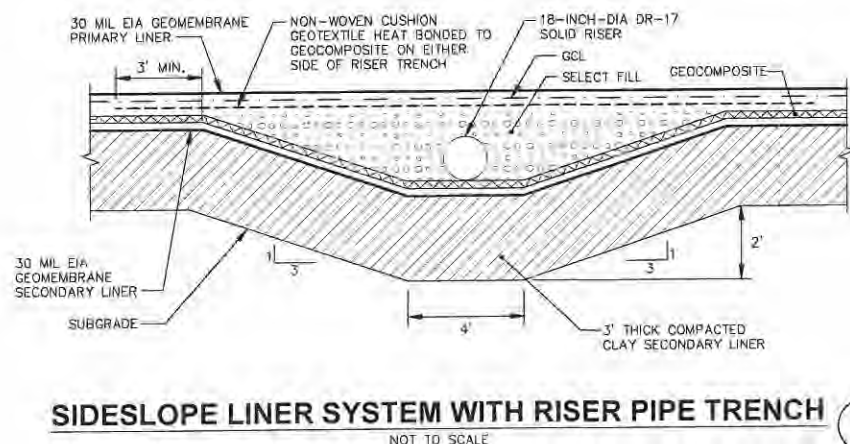
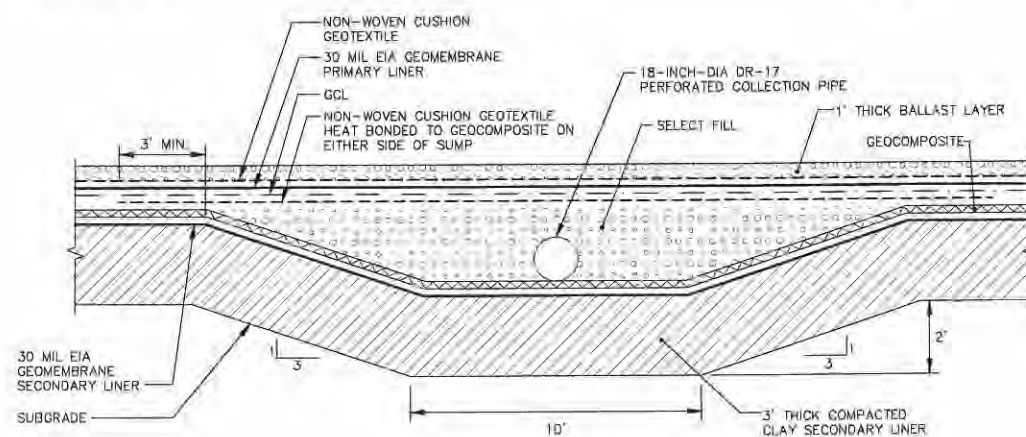
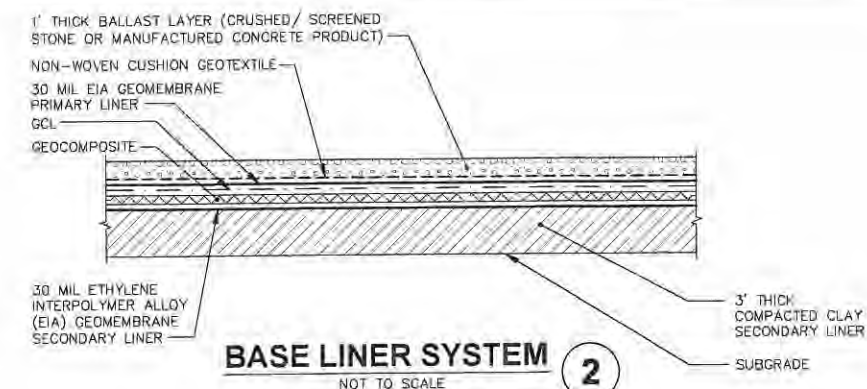
- NOTES:
- SEE DRAWING 2 FOR BASEMAP INFORMATION.
 - PROPOSED GRADES REPRESENT FINAL GRADING (TOP OF BALLAST LAYER ON FLOOR AND TOP OF PRIMARY LINER ON INTERIOR SIDESLOPES).

CULVERT ID	SIZE	SLOPE %
BENEATH ACCESS RAMP	24"	0.3%
BENEATH ROAD	36"	0.3%



FAC POND 1 TRANSFER PIPELINE CONNECTION
TO FILTER AND OFF-SITE DISCHARGE PIPING

SCALE(S) AS INDICATED		Professional Engineer's Name JOSEPH MOLINA Professional Engineer's No. 072644		Professional Engineer's Seal JOSEPH MOLINA 072644 PROFESSIONAL ENGINEER		ARCADIS ARCADIS OF NEW YORK, INC.		CWM/CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK FAC POND 5 PERMIT DRAWINGS		FAC POND GRADING PLAN		GENERAL		ARCADIS Project No. B0023725 2013.00003 Date FEBRUARY 2013 ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 68 Syracuse, New York TEL: 315.446.0120		3	
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.		USE TO VERIFY FIGURE REPRODUCTION SCALE		11/2013 REMOVED FAC POND 1/2 RECONSTRUCTION		GNG/BMS By Ckd		State NY Date Signed 11/5/13 Project Manager TJR		Designed by BMS/PTO Drawn by SJK Checked by BMS							



NOTES:

1. VENT POCKETS SHALL BE INSTALLED EVERY 200 FEET ALONG TOP OF SLOPE OF LINER SYSTEM.
2. AT EACH VENT POCKET LOCATION BOTH UPPER AND LOWER GEOMEMBRANES SHALL BE VENTED.

GENERAL NOTE:

1. GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE IN CERTAIN DETAILS FOR CLARITY.

VENT POCKET DETAIL
NOT TO SCALE

8

NOT TO SCALE							
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING		USE TO VERIFY FIGURE REPRODUCTION SCALE	 11/2013	REMOVED FAC POND 1/2 RECONSTRUCTION			
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Professional Engineer's Name
JOSEPH MOLINA
Professional Engineer's No.
072644

State:	Date Signed:
NY	11/5/13
Designed by:	Drawn by:
GNG	IAE

Project Manager	
TJF	
Checked by	
RMS	

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CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK
FAC POND 5 PERMIT DRAWINGS

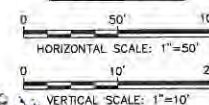
FAC POND SECTIONS AND DETAILS

GENERAL

ARCADIS Project No.
B0023725.2013.00003

Date
FEBRUARY 2013

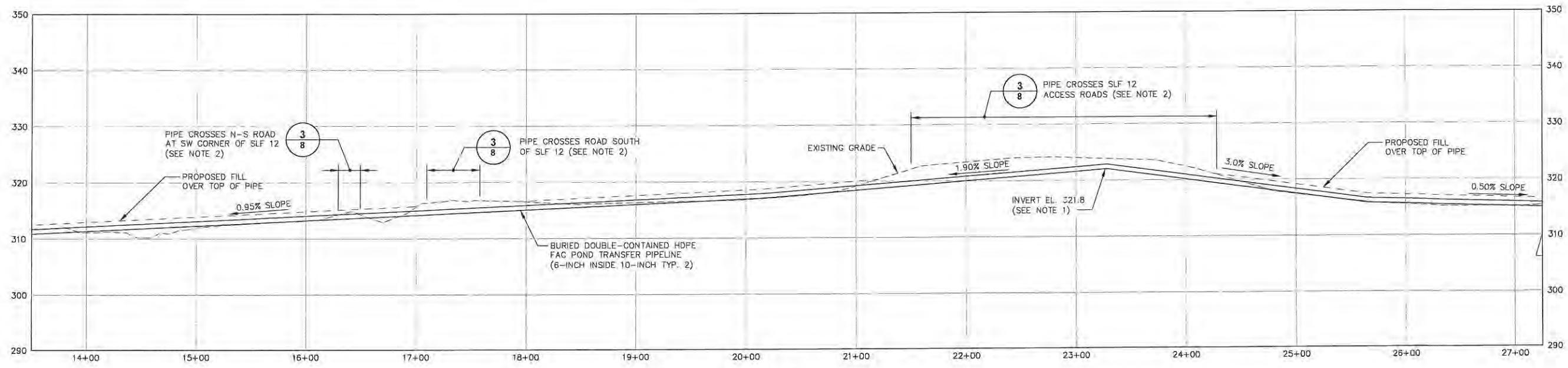
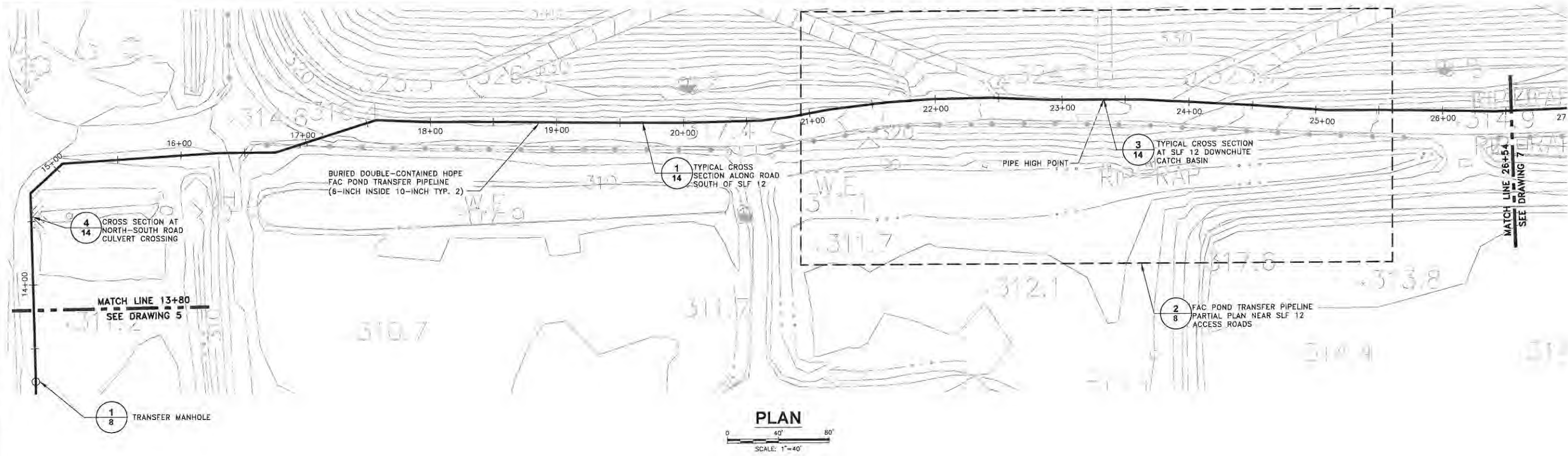
ARCADIS of New York, Inc.
5723 Towpath Road
P.O. Box 66
Syracuse, New York
TEL 315.446.9120



1. ADDITIONAL PIPING (NOT SHOWN) WILL BE INSTALLED WITHIN EXISTING MANHOLE TO CONNECT NEW TRANSFER PIPELINES TO EXISTING OFF-SITE DISCHARGE PIPING.
2. ELEVATIONS REFERENCED REPRESENT INVERT OF THE CONTAINMENT PIPE (OUTER), EXCEPT WHERE SINGLE-CONTAINED PIPE IS INDICATED.
3. DUCTILE IRON SLEEVE PIPE SHALL BE USED TO PROTECT HDPE PIPE AT ALL ROAD CROSSINGS.

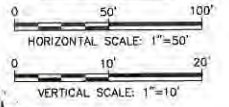
SCALE(S) AS INDICATED		Professional Engineer's Name JOSEPH MOLINA		Professional Engineer's No. 072644		 ARCADIS ARCADIS OF NEW YORK, INC.		CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK FAC POND 5 PERMIT DRAWINGS		ARCADIS Project No. B0023725.2013.00003	
								Date FEBRUARY 2013		5	
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.		USE TO VERIFY FIGURE REPRODUCTION SCALE.		11/10/13 REMOVED FAC POND 1,2 RECONSTRUCTION Revisions		State NY		Date Signed 11/5/13		Project No. T.J.F.	
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CITY: SYRACUSE, NY DIV: GROUP: ENV: CAD DB: K. DAVIS LD: PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LTR: ONE-OFF-REF-
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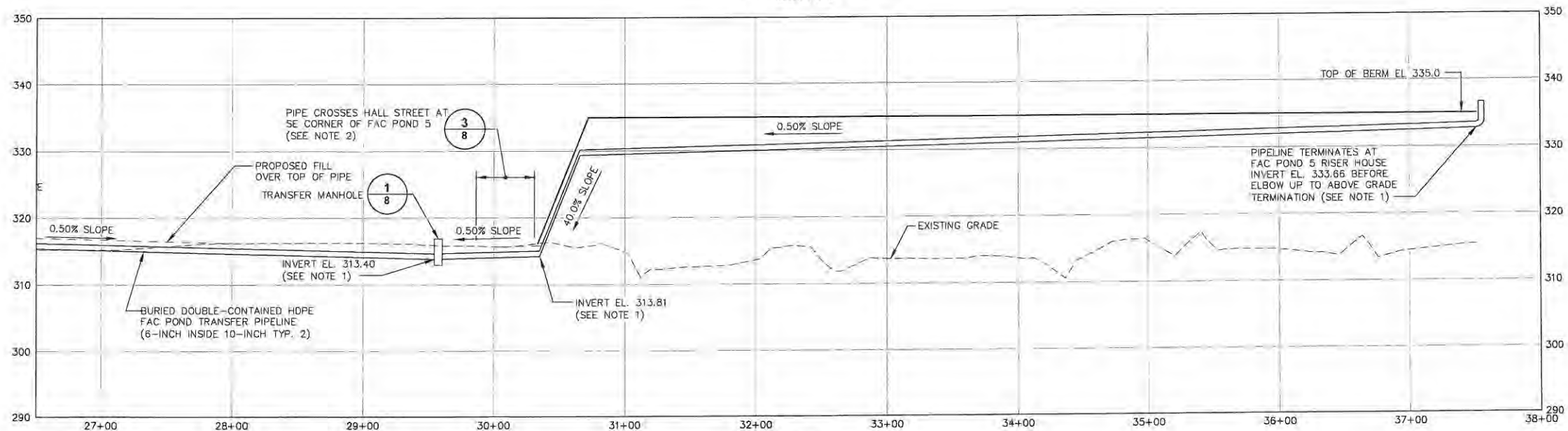


- NOTES:
- ELEVATIONS REFERENCED REPRESENT INVERT OF THE CONTAINMENT PIPE (OUTER).
 - DUCTILE IRON SLEEVE PIPE SHALL BE USED TO PROTECT HDPE PIPE AT ALL ROAD CROSSINGS.

PROFILE



SCALE(S) AS INDICATED		Professional Engineer's Name: JOSEPH MOLINA		Professional Engineer's No.: 072644		State: NY		Date Signed: 11/5/13		Project No.: TJF		Checked by: BMS		Designed by: SJK		Professional Engineer's Seal: 		ARCADIS ARCADIS OF NEW YORK, INC.		CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK FAC POND 5 PERMIT DRAWINGS		ARCADIS Project No.: B0023725.2013.00003		Date: FEBRUARY 2013		ARCADIS of New York, Inc. 8723 Tompkins Road P.O. Box 66 Syracuse, New York TEL 315.448.9120		6	
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1. ELEVATIONS REFERENCED REPRESENT INVERT OF THE CONTAINMENT PIPE (OUTER).
2. DUCTILE IRON SLEEVE PIPE SHALL BE USED TO PROTECT HDPE PIPE AT ALL ROAD CROSSINGS.

State	NY
Designed by	

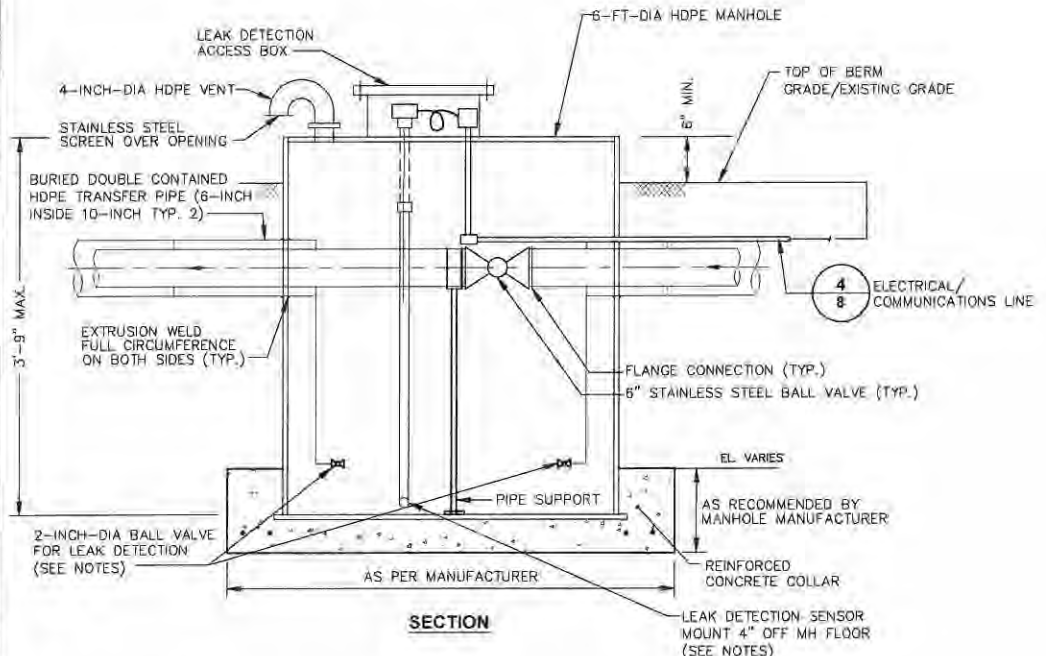
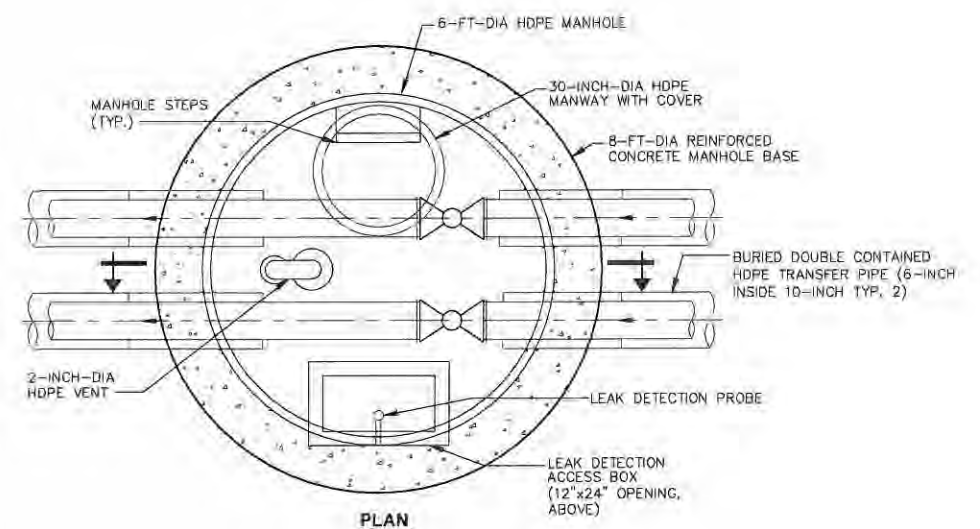
ARCADIS OF NEW YORK, INC.

FAC POND TRANSFER PIPELINE

GENERAL

ARCADIS Project No. B0023725.2013.00003
Date FEBRUARY 2013
ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse, New York TEL. 315.448.9120

CITY: SYRACUSE, NY DIV: GROUP-ENVCAD DB: K. DAVIS LD: PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LVR: ON=OFF-REF-
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XREFS: 23725X00 23725X01 23725X02
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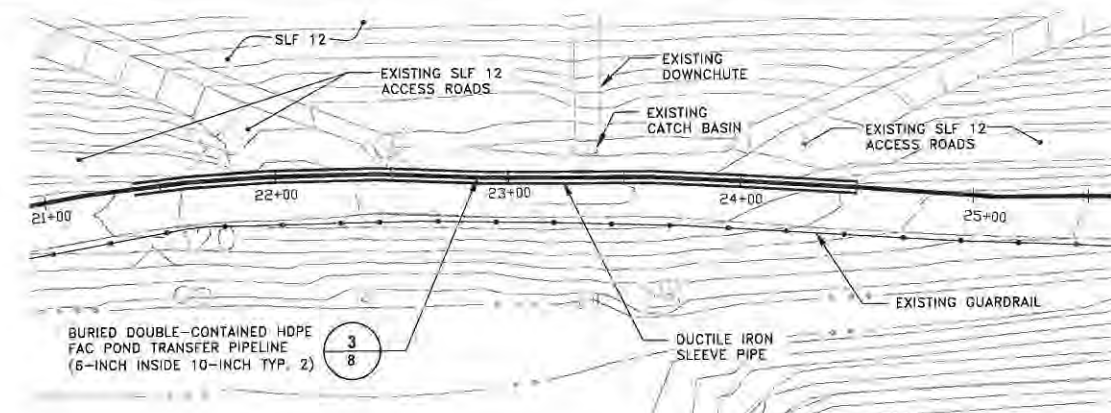


- NOTES:
1. INSTALL LEAK DETECTION VALVES AT LOW POINTS ONLY.
 2. SEAL END OF SECONDARY TRANSFER HDPE PIPE FOR TESTING PURPOSES. 1" THICK FLATSTOCK RING TO BE EXTRUSION WELDED TO BOTH PRIMARY AND SECONDARY PIPES.
 3. ELECTRONIC LEAK DETECT SENSORS WIRED TO FAC POND TRANSFER PUMPS TO AUTOMATICALLY SHUT OFF PUMPS WHEN ACTIVATED.

TYPICAL TRANSER MANHOLE

NOT TO SCALE

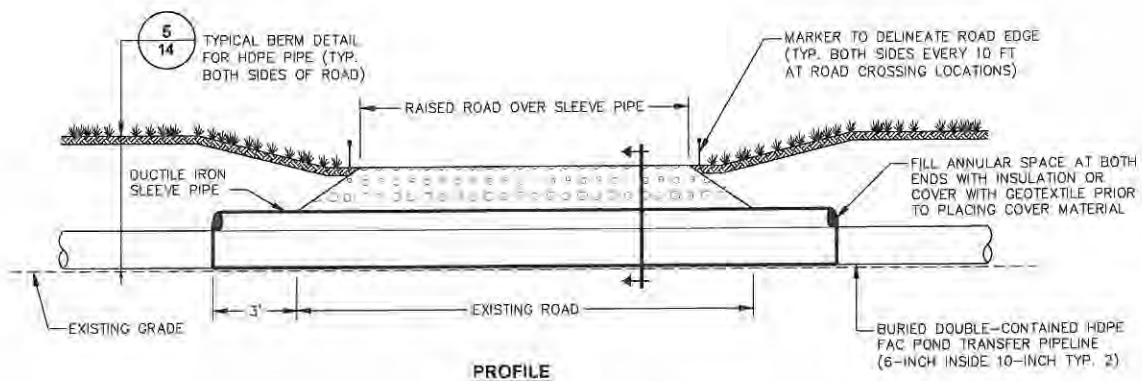
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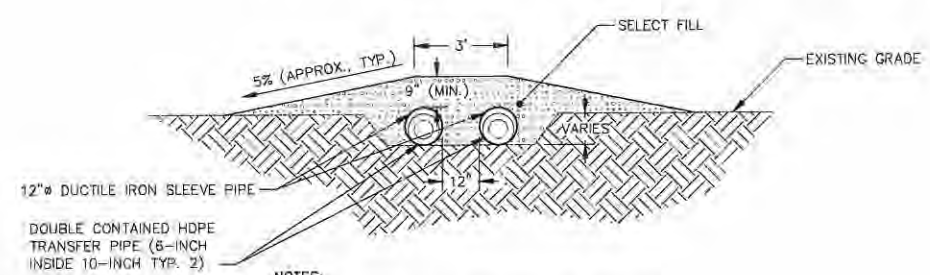
FAC POND TRANSFER PIPELINE PARTIAL PLAN
NEAR SLF 12 ACCESS ROADS

SCALE: 1"=40'

2



PROFILE

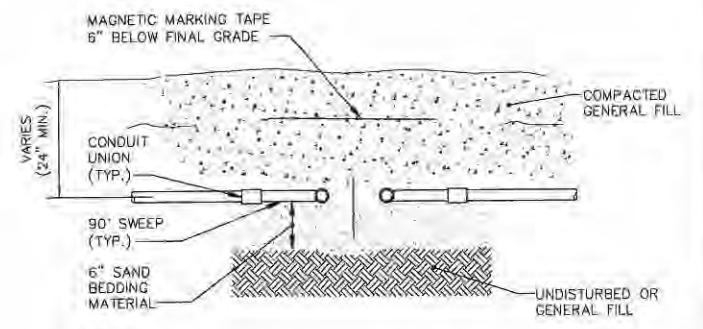


SECTION

FAC POND TRANSFER PIPELINE ROAD CROSSING

NOT TO SCALE

3



TYPICAL UNDERGROUND CONDUIT
INSTALLATION DETAIL

4

- NOTES:
1. NUMBER AND SIZE OF CONDUITS MAY VARY.
 2. CONDUITS TO BE SPACED 6" APART MINIMUM.
 3. POWER CONDUITS: RIGID STEEL PVC COATED (PLASTI-BOND), SIZE MAY VARY.
 4. 1/0 COMM CONDUIT: 1" RIGID STEEL PVC COATED (PLASTI-BOND).

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

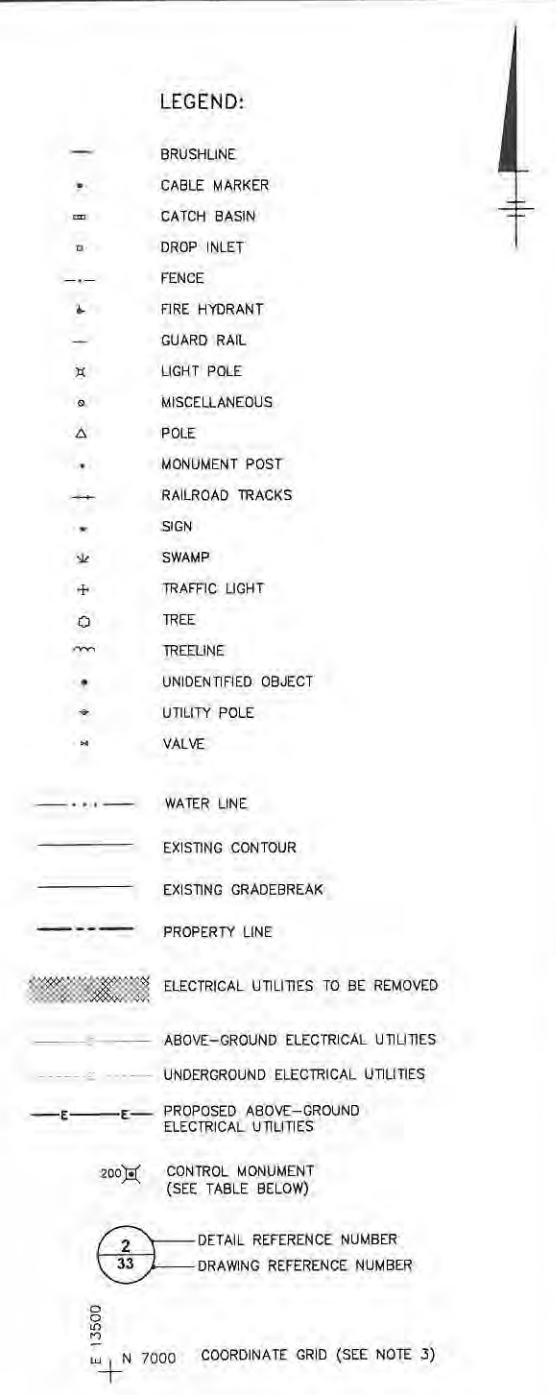
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Professional Engineer's Name JOSEPH MOLINA	Date Signed 11/5/13	Project TJF
Professional Engineer's No. 072644	Drawn by BKD	Checked by BMS
State NY		

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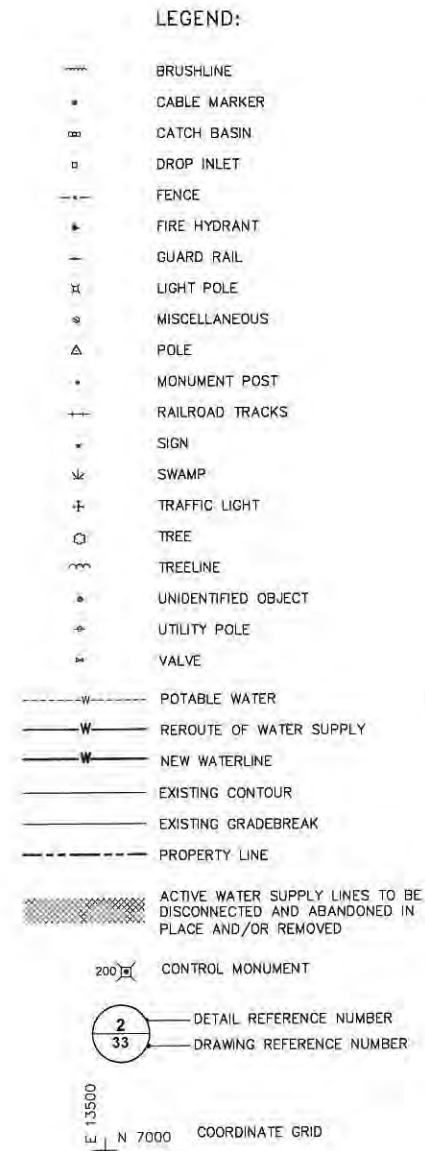
CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK FAC POND 5 PERMIT DRAWINGS	FAC POND TRANSFER PIPELINE DETAILS
GENERAL	

ARCADIS Project No. B0023725.2013.00003	8
Date FEBRUARY 2013	
ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse, New York TEL 315.446.9120	



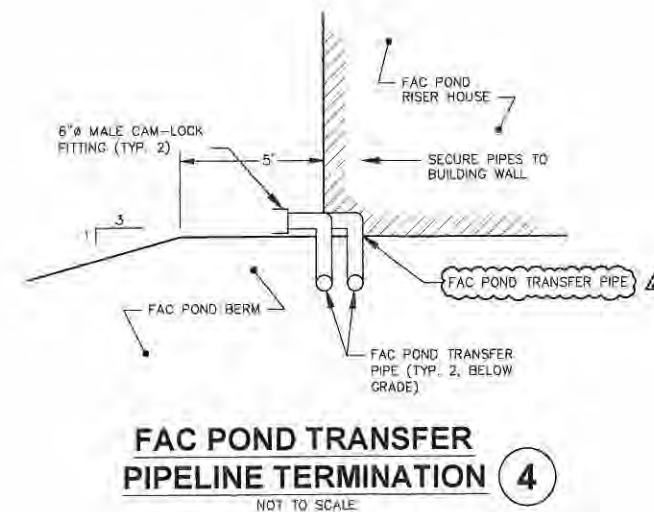
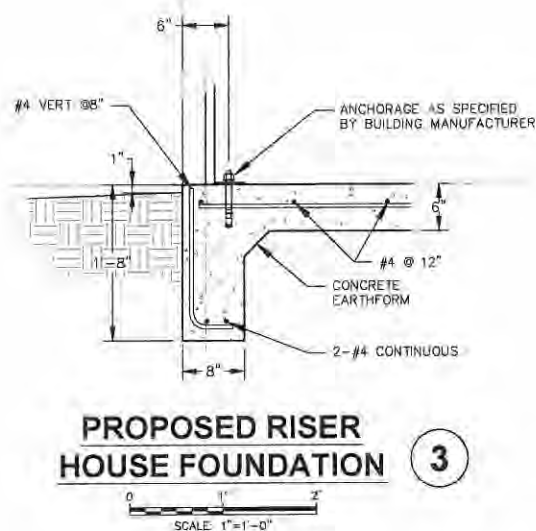
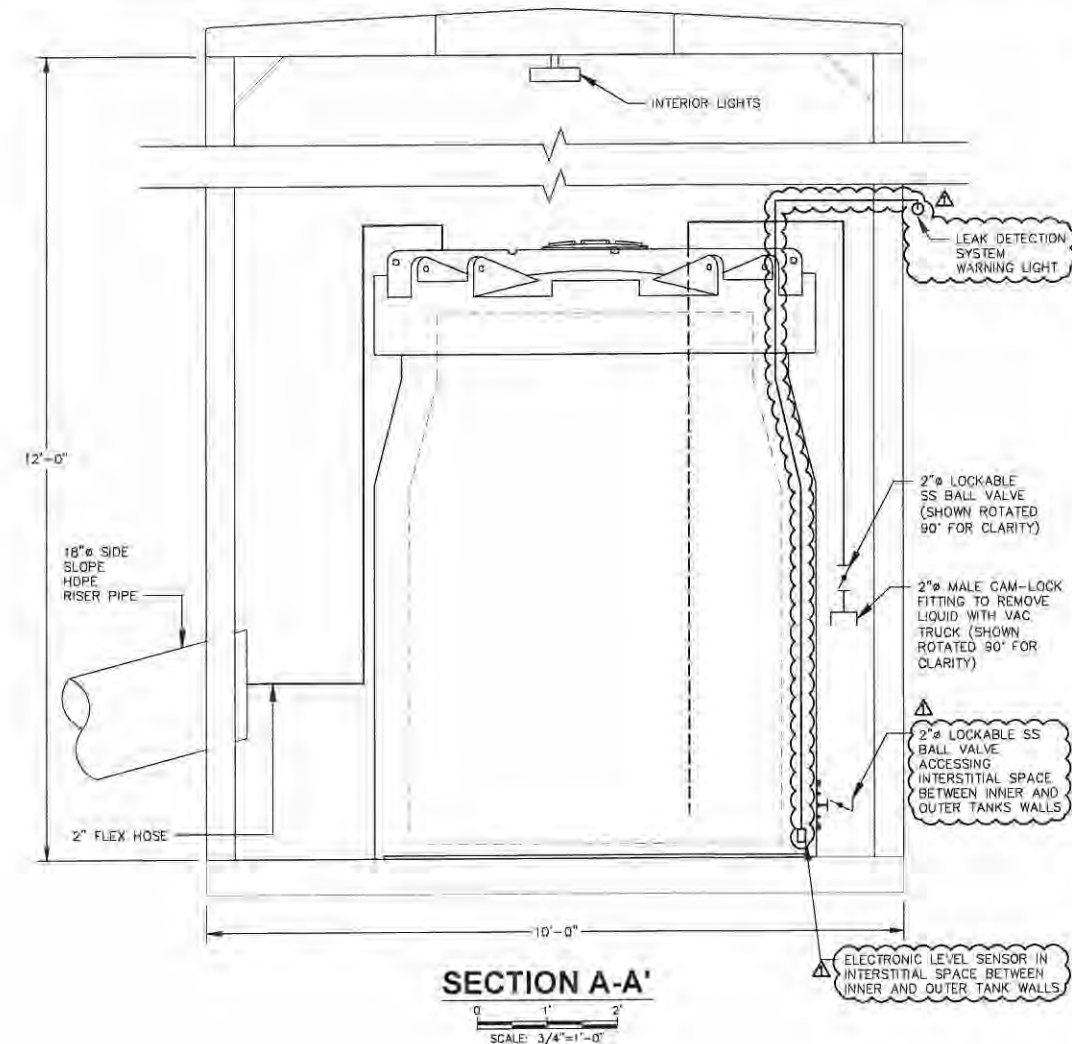
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|---------------------------------|---|----------|
| YORK

ICATION PLAN | ARCADIS Project No.
B0023729.2013.00003 | 9 |
| | Date
FEBRUARY 2013 | |
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Syracuse, New York
TEL 315.446.9120 | |

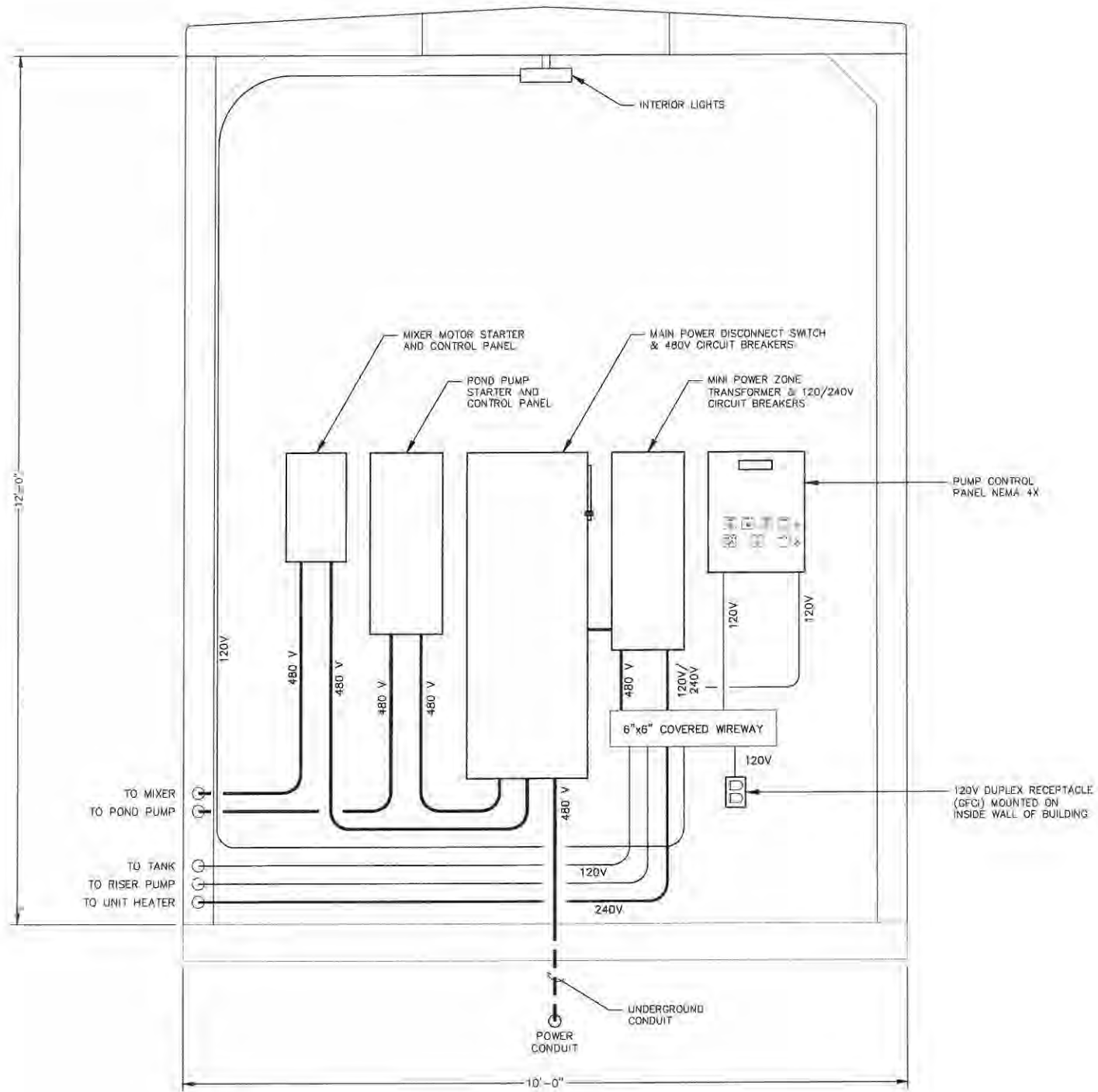


- NOTES:**
1. REFER TO DRAWING NO. 2 FOR ADDITIONAL BASEMAP INFORMATION.
 2. WATER SUPPLY LINES SHOWN ARE APPROXIMATE AND ARE BASED ON SITE OBSERVATIONS MADE IN 2003 BY BLASLAND, BOUCK & LEE, INC. (NOW KNOWN AS ARCADIS) AND INPUT FROM CWM. POINT OF CONNECTION BETWEEN EXISTING AND PROPOSED WATER SUPPLY LINES ARE APPROXIMATE.
 3. REFER TO DRAWINGS IN ATTACHMENT D-1 OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.
 4. REFER TO DRAWINGS IN ATTACHMENT J FOR FURTHER DETAIL.





NOT TO SCALE						Professional Engineer's Name JOSEPH MOLINA				CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK FAC POND 5 PERMIT DRAWINGS	FAC POND RISER HOUSE MECHANICAL INSTALLATION DETAILS	ARCADIS Project No: B0023725.2013.00003	11
						Professional Engineer's No. 072644						Date: FEBRUARY 2013	
		11/2013	REMOVED FAC POND 1 & 2 RECONSTRUCTION	GNG/BMS									
	USE TO VERIFY FIGURE REPRODUCTION SCALE		10/2013	ADDED ELECTRONIC LEAK DETECTION AND WARNING LIGHT	PTO/BMS	State: NY Date Signed: 1/15/13 Project No: TJF	Designed by: CML	Drawn by: S.LK	Checked by: RMS	ARCADIS OF NEW YORK, INC. GENERAL	ARCADIS of New York, Inc. 6723 Tawpath Road P.O. Box 66 Syracuse, New York TEL 315.446.9120		
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ELECTRICAL SECTION 1

SCALE: 1"=1'-0"



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CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK
FAC POND 5 PERMIT DRAWINGS
**FAC POND RISER HOUSE
ELECTRICAL INSTALLATION DETAILS**

ARCADIS Project No.
B0023725.2013.00003
Date
FEBRUARY 2013
ARCADIS of New York, Inc.
6723 Tarrytown Road
P.O. Box 66
Syracuse, New York
TEL: 315.446.9120



1. CONCRETE FLOOR, SUMP, AND CURB TO BE A MONOLITHIC POUR TO ELIMINATE JOINTS.

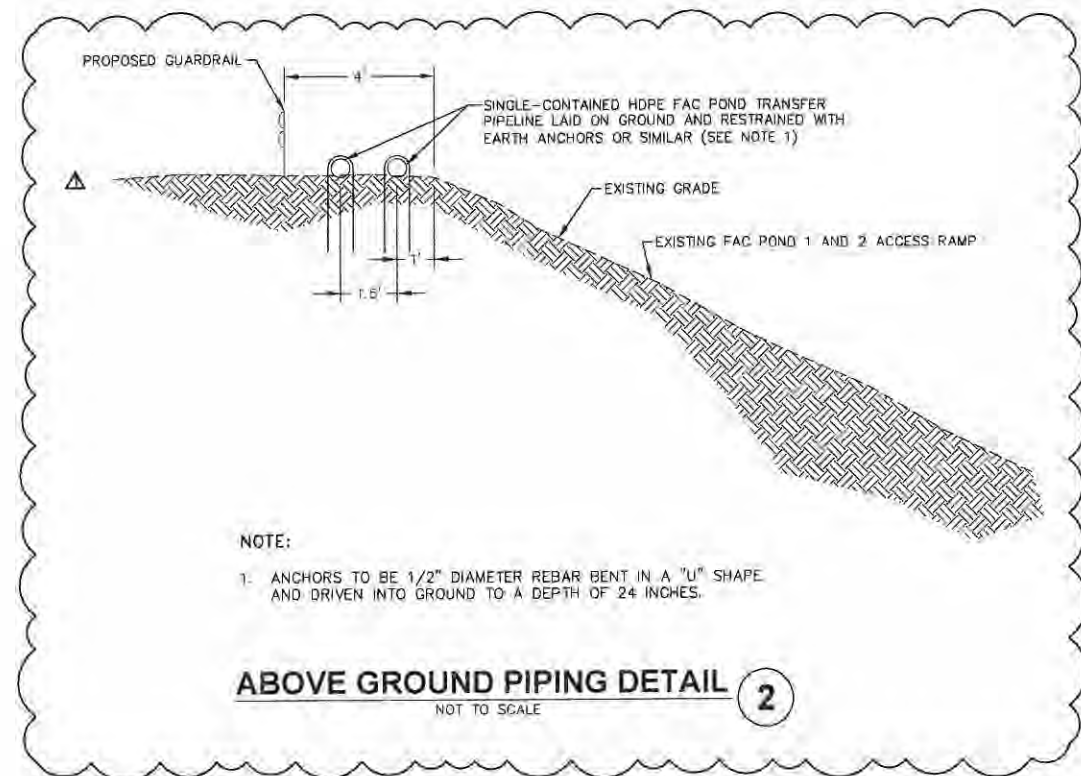
VALVE HOUSE AND PIPING LAYOUT

1

0' 2' 5'

SCALE: $3/8" = 1'-0"$

SECTION A-A'



NOTE:

1. ANCHORS TO BE 1/2" DIAMETER REBAR BENT IN A "U" SHAPE AND DRIVEN INTO GROUND TO A DEPTH OF 24 INCHES.

ABOVE GROUND PIPING DETAIL

NOT TO SCALE

(

SCALE(S) AS INDICATED		Professional Engineer's Name: JOSEPH MOLINA		Professional Engineer's No. 072644		 ARCADIS ARCADIS OF NEW YORK, INC.		CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK FAC. POND 5 PERMIT DRAWINGS		ARCADIS Project No. B0023723.2013.00003		13
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING		USE TO VERIFY FIGURE REPRODUCTION SCALE		11/2013 REMOVED FAC. POND 1 & RECONSTRUCTION No. Date Revisions:		Date Signed NY 11/5/13		Project No. TJF		Date FEBRUARY 2013		
THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.				Designed by SJK		Drawn by SJK		Checked by BMS		ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 68 Syracuse, New York TEL. 315.446.0120		
								GENERAL				



1. ALL HDPE PIPING SHALL BE DR-11.

CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK
FAC POND 5 PERMIT DRAWINGS

FAC POND TRANSFER PIPELINE DETAILS

ARCADIS Project No.
B0023725-2013.00003

Date
FEBRUARY 2013

ARCADIS of New York, Inc.
8723 Towpath Road
P.O. Box 66
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TEL 315.446.9120