New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau B, 12th Floor
625 Broadway, Albany, New York 12233-7016
Phone: (518) 402-9768 • **Fax:** (518) 402-9773
Website: www.dec.ny.gov

Joe Martens
Commissioner

April 18, 2012

Mr. Brian McGinnis
FMC Corporation, Remediation Department
1735 Market Street
Philadelphia, Pennsylvania 19103

Dear Mr. McGinnis:

Re: FMC Corporation, Middleport, NY
EPA ID No. NYD002126845
AOC Docket No. II-RCRA-90-3008(h)-0209
DER Site No. 932014
Revised Operation, Maintenance and Monitoring Plan for the North Railroad Property Phase 2 ICM revised March 2012

The United States Environmental Protection Agency (USEPA) and the New York State Department of Environmental Conservation (NYSDEC) hereafter referred to as "the Agencies" have received and reviewed the above mentioned document. The changes are acceptable and the report is hereby approved.

If you have questions concerning this letter, you may contact either Ms. Sally Dewes (NYSDEC) at (518)402-9768 or Mr. Michael Infurna (USEPA) at (212) 637-4177.

Sincerely,

Sally Dewes, P.E.
NYSDEC Project Coordinator
Division of Environmental Remediation

S. Dewes for M. Infurna

Michael Infurna
USEPA Project Coordinator
Environmental Planning and Protection Division

ec: R. Cozzy/M. Komoroske, DER
M. Hinton/G. Sutton, NYSDEC Region 9 Buffalo
R. Locey/R. Rink, NYSDEC Region 9 Buffalo
S. Radon/D. Weiss, NYSDEC Region 9
M. Infurna, USEPA
N. Freeman, NYSDOH
W. Lachell, AMEC
D. Watts, MCIG Technical Advisor
W. Arnold, MCIG Chairperson
D. Seaman, Seaman, Jones, Hogan & Brooks

FMC Corporation

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Philadelphia PA 19103

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215.299.6947 fax

www.fmc.com

Transmitted Via Email and FedEx

March 30, 2012

Ms. Sally Dewes, PE
NYSDEC Project Coordinator
Remedial Bureau B
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7016

Mr. Michael Infurna
USEPA Project Coordinator
Division of Environmental Planning and Protection
United States Environmental Protection Agency, Region II
290 Broadway, 22nd Floor
New York, NY 10007-1866

Re: Revised Operation, Maintenance and Monitoring Plan for the
North Railroad Property Phase 2 Interim Corrective Measures (ICM)
RCRA Section 3008(h) Administrative Order on Consent (AOC)
Docket No. II-RCRA-90-3008(h)-209
FMC Corporation, Middleport, NY Facility
EPA I.D. No. NYD002126845

Dear Ms. Dewes and Mr. Infurna:

By letter dated January 18, 2012, FMC Corporation (FMC) requested approval to reduce the frequency of sampling and analysis activities specified in the *Operation, Maintenance, and Monitoring Plan for the North Railroad Property – Phase 2 Interim Corrective Measures (ICM)* (October 2009) ("Phase 2 OM&M Plan"). The New York State Department of Environmental Conservation (NYSDEC) and the United States Environmental Protection Agency (USEPA) (jointly, "the Agencies"), in consultation with the New York State Department of Health (NYSDOH), identified, by letter dated February 27, 2012, two conditions under which reduction in the frequency of sampling and analysis activities would be acceptable. By letter dated March 12, 2012, FMC agreed to the Agencies' condition #1, provided comments on condition #2, and requested a meeting with the Agencies to discuss condition #2. On March 21, 2012, FMC and the Agencies discussed the Agencies' conditions, and agreed that sampling would be conducted as described in Section 4 of the enclosed revised Phase 2 ICM OM&M Plan.

If you have any questions, please contact me.

Sincerely,

Brian M. McGinnis

Brian M. McGinnis
Remediation Project Manager
(215) 299-6047

cc: M. Mortefolio, NYSDEC, Albany
M. Hinton, NYSDEC, Buffalo
R. Locey, NYSDEC, Buffalo
N. Freeman, NYSDOH, Troy
R. Westcott, Mayor, Village of Middleport
D. Seaman, Esq., Village Attorney, Village of Middleport
Middleport Library Document Repository
W. Lachell, AMEC
E. Rankin, PE, ARCADIS

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FMC

Operation, Maintenance and Monitoring Plan for the North Railroad Property Phase 2 Interim Corrective Measures (ICM)

FMC Corporation
Middleport, New York

October 2009

Revision No. 1 – March 2012

Operation, Maintenance and Monitoring Plan for the North Railroad Property Phase 2 Interim Corrective Measures

FMC Corporation
Middleport, New York

Prepared for:
FMC Corporation

Prepared by:
ARCADIS
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.449.0017

Our Ref.:
B0037764

Date:
October 2009
Revision No. 1 – March 2012

Table of Contents

Figure

Appendices

1. Background and Purpose

The North Railroad Property, which was formerly owned by Conrail and acquired by FMC Corporation (FMC) in May 2002, is located to the north of the FMC Middleport, New York Plant Site as shown on Figure 1. The North Railroad Property includes an active railroad mainline and portions of spurs to the FMC Plant Site, stormwater drainage ditches, and the "Northwest Conrail Area," which comprises a concrete platform and a grass-covered area. The North Railroad Property was remediated in two phases ("Phase 1" and "Phase 2") in accordance with an Administrative Order on Consent (AOC) [Docket No. II RCRA-90-3008(h)-0209] entered into by FMC, the New York State Department of Environmental Conservation (NYSDEC), and the United States Environmental Protection Agency (USEPA) (the latter two entities are referred to herein collectively as "the Agencies"), effective July 2, 1991. The locations of the FMC Plant Site, Phase 1 ICM Area, and Phase 2 ICM area are shown on Figure 1.

The Phase 1 ICM activities were completed in 2005, and involved soil excavation and construction of a surface cover on the Phase 1 ICM Area of the North Railroad Property. The Phase 1 ICM activities are documented in the *Final Construction Report for the North Railroad Property Phase 1 Interim Corrective Measures Work Plan* (Phase 1 ICM Construction Report) (2006).

The Phase 2 ICM activities were completed in 2008, and involved installation of a surface cover on the Phase 2 ICM Area of the North Railroad Property and installation of post-Phase 1 stormwater management controls on the northeastern portion of the FMC Plant Site. The Phase 2 ICM activities are documented in the *North Railroad Property Phase 2 Interim Corrective Measures Construction Report* (Phase 2 ICM Construction Report) (2009).

A plan titled *Operation, Maintenance and Monitoring Plan for the North Railroad Property – Phase 2 Interim Corrective Measures (ICM)* (Phase 2 ICM OM&M Plan) (2009), describing the post-construction inspection, maintenance and monitoring activities to be conducted by FMC relative to the Phase 2 ICM Area, was approved by the Agencies by letter dated March 4, 2010. Based on analytical data for surface water samples collected from the Phase 2 ICM Area under the Phase 2 ICM OM&M Plan from December 2009 through November 2011, FMC submitted a request to the Agencies on January 18, 2012 to reduce the frequency of sampling and analysis activities from quarterly to annual. By letter dated February 27, 2012, the Agencies, in consultation with the New York State Department of Health (NYSDOH), identified two conditions under which the requested reduction in frequency of sampling and analysis activities would be acceptable. On March 21, 2012, FMC and the Agencies discussed the Agencies' conditions, and agreed that sampling would be conducted as described in Section 4 of this revised Phase 2 ICM OM&M Plan.

2. Summary of Phase 2 ICM Activities

The Phase 2 ICM construction activities included the following:

- Installation of a surface cover system consisting of (from bottom to top) a flexible membrane liner (FML), a non-woven geotextile, approximately 12 inches of select soil fill, a demarcation layer, approximately 8 inches of general soil fill, and approximately 4 inches of vegetated topsoil.

- Installation of a V-notch strip drain above the surface cover system, ending with a riprap covered termination.

- Installation of an asphalt cover system along the southern, eastern and northeastern perimeters of the Phase 2 ICM Area.

- Installation of a permanent asphalt-lined stormwater diversion and curb in the southwestern portion of the Phase 2 ICM Area and an asphalt-lined stormwater diversion swale along the eastern portion of the Phase 2 ICM Area.

- Installation of an asphalt cover around an existing stormwater catch basin (CB-1-NRR) in the southwest portion of the Phase 2 ICM Area.

- Installation of stormwater management controls on the northeastern portion of the FMC Plant Site to mitigate potential post-Phase 1 ICM increases in stormwater runoff to the Western Surface Impoundment (WSI). These controls consist of a Stormwater Attenuation Structure (SWAS) and adjoining berm.

The locations of these features are indicated on Figure 1. Details regarding the construction of these features are provided in the Record Drawings of the Phase 2 ICM Construction Report. A copy of the Record Drawings is provided in Appendix A of this plan.

3. Inspection, Maintenance and Monitoring Activities

The Phase 2 ICM post-construction activities include inspection, maintenance, and monitoring to maintain the condition and integrity of the Phase 2 ICM components (i.e., surface covers, permanent erosion and sediment control, and stormwater management features) and to monitor surface water quality entering catch basin CB-1-NRR in the Phase 2 ICM Area.

Inspection, maintenance and monitoring of Phase 2 ICM components will be conducted in accordance with the procedures outlined in Section 3 of the *Phase 1 Interim Corrective Measures Operation, Maintenance and Monitoring Plan for the North Railroad Property* (Phase 1 ICM OM&M Plan) (2011). The Phase 2 ICM OM&M components include (see Figure 1):

- Phase 2 ICM Area Surface Covers
- Strip Drain Termination
- Swales and Diversions
- Stormwater Attenuation Structure
- Catch Basin CB-1-NRR

The Phase 2 ICM components will be inspected on a quarterly basis, concurrently with the inspection of the Phase 1 ICM Area O&M components.

Personnel conducting inspection activities will complete an Inspection Form (Appendix B). The Inspection Form includes information necessary to review the condition of the Phase 2 ICM components and will aid in determining whether maintenance activities are required. The Inspection Form provides an organized and consistent means of recording typical inspection information such as the date and time of inspection, personnel involved, visual observations, and photographs.

If any problems are encountered during an inspection, FMC shall notify the NYSDEC within three (3) business days of identifying the problem or problems. This notification shall include a description of the problem(s), any immediate actions that were taken to correct or mitigate the problem, and the actions planned to correct the problem, along with a time frame for implementation of such actions. Subject to the provisions of the AOC, including but not limited to Sections VII and XI.1, FMC will also take any alternative or additional actions deemed necessary and directed in writing by the NYSDEC to protect human health and the environment.

4. Surface Water Sample Collection and Analysis

Catch basin CB-1-NRR receives surface water runoff from a portion of the Northwest Conrail Area and the backyards of several residential properties, adjacent to the western boundary of the FMC Plant Site, that were remediated during the 2003 West Properties ICM (2007). In addition, the catch basin receives the effluent from FMC's State Pollutant Discharge Elimination System (SPDES) permitted Outfall 001 (which includes treated water from the Facility water treatment plant [WTP] and stormwater runoff from the south side of the Facility). The catch basin is connected to the Village of Middleport's existing storm sewer system that drains to Tributary One.

Samples of the surface water run-off from the Phase 2 ICM Area entering catch basin CB-1-NRR (not the flow within the catch basin) will be collected during the first calendar quarter (January 1 to March 31) of each year, if feasible. Attempts will be made to collect the samples, during weekday daytime working hours (i.e., 8 am to 5 pm) and when safe to do so, until samples are collected. If surface water samples cannot be collected during the first calendar quarter, then the location will be checked during the subsequent quarter (and thereafter, as needed), with the objective of obtaining a surface water sample within the calendar year.

Sampling and analysis will be conducted in accordance with Section 2.3 and Section 3 of the *North Railroad Property Run-On Sampling and Analysis Plan* (SAP) (2005) that is included as Attachment B to the Phase 1 ICM OM&M Plan. The sample will be submitted to a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory for analysis. The sample will be analyzed for the same constituents and parameters and by the same methods as specified for the Phase 1 ICM Area surface water samples. The analyses and methods include:

- Total and dissolved arsenic (USEPA SW-846 Method 6010B)
- Total and dissolved lead (USEPA SW-846 Method 6010B)
- Site-specific parameter list (SSPL) chlorinated pesticides (USEPA SW-846 Method 8081A)
- Total ammonia (as Nitrogen) (Methods for Chemical Analysis of Water and Wastes [MCAWW] Method 350.1)
- Hardness (MCAWW Method 130.2)

Laboratory analysis, quality control and reporting, and data validation will be conducted in accordance with Section 4 and Section 5 of the SAP.

5. Deliverables and Schedule

The findings of the Phase 2 ICM OM&M activities will be documented in the same manner as for the Phase 1 ICM OM&M activities. The results of the quarterly inspections will be discussed in the Quarterly Progress Reports for the FMC Plant Site. If a stormwater sample is collected and analyzed, then the results will be discussed in a report to be provided to the Agencies within 90 days following receipt of the analytical data. If surface water samples are also concurrently collected from the Phase 1 ICM Area ditches, then the results will be provided in a combined report, separate from the Quarterly Progress Report. The content of the report is outlined in Section 4.3 of the Phase 1 ICM OM&M Plan.

References

ARCADIS. 2009. North Railroad Property Phase 2 Interim Corrective Measures Construction Report (October).

ARCADIS. 2011. Operation, Maintenance, and Monitoring Plan for the North Railroad Property Phase 1 Interim Corrective Measures (Revision No. 1 – June).

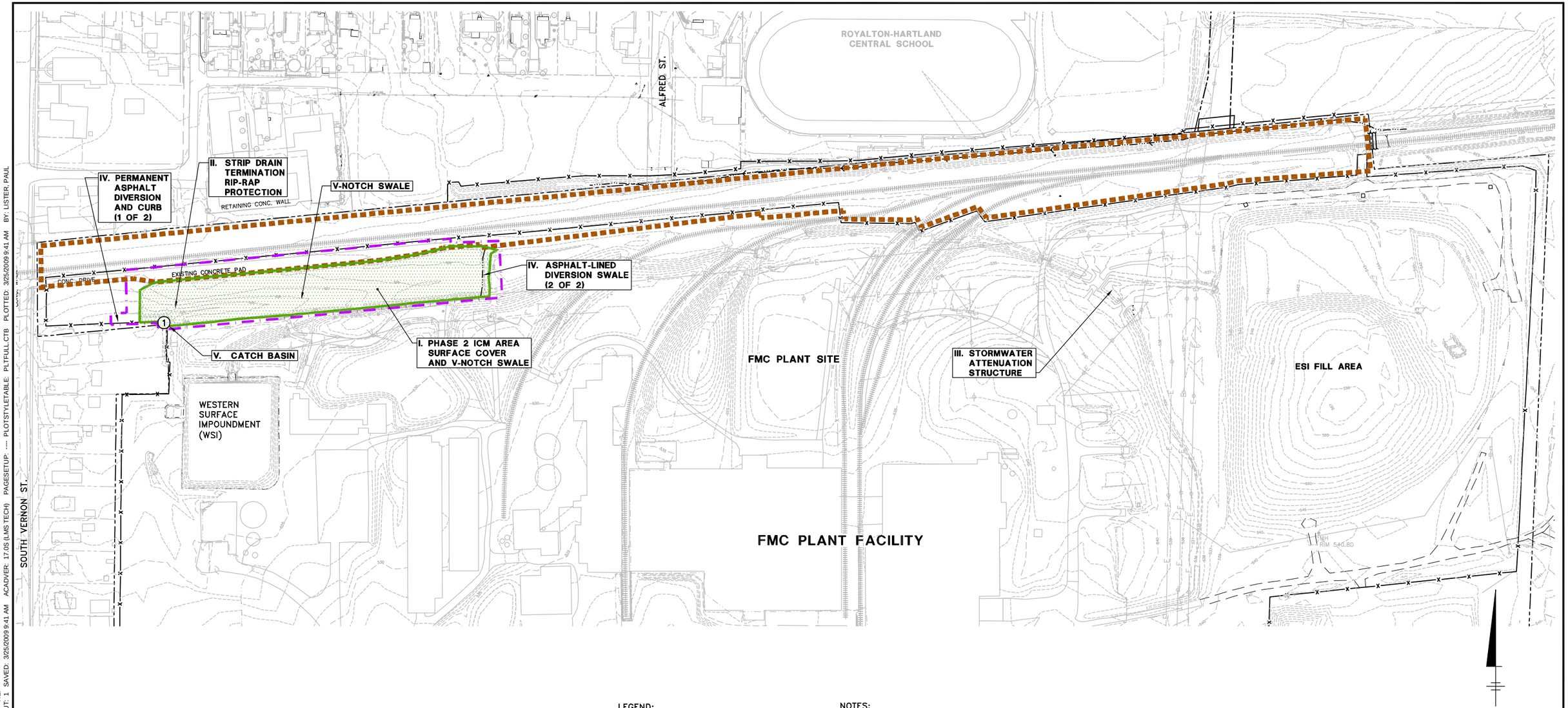
BBL. 2006. Final Construction Report for the North Railroad Property Phase 1 Interim Corrective Measures Work Plan (January).

Geomatrix. 2005. North Railroad Property Run-On Sampling and Analysis Plan (SAP). Included as Attachment B to the Phase 1 ICM O&M Plan.

Geomatrix. 2007. Final Construction Report for the West Properties Soil and Former Sewer Removal ICM (February).

ARCADIS

Figure



LEGEND:

- APPROXIMATE OFFSITE PROPERTY LINE
- APPROXIMATE FMC PROPERTY LINE
- APPROXIMATE LIMITS OF PHASE 1 ICM AREA
- APPROXIMATE LIMITS OF PHASE 2 ICM AREA SURFACE COVERS
- APPROXIMATE LIMITS OF PHASE 2 ICM WORK AREA
- I. PHASE 2 ICM AREA SURFACE COVER AND V-NOTCH SWALE — POST–ICM O&M SITE INSPECTION FORM ITEM AND ITEM NUMBER
- DRAINAGE FEATURE
- (1) — APPROXIMATE PHASE 2 ICM O&M STORMWATER SAMPLING LOCATION (SEE NOTE 3)
- APPROXIMATE LOCATION OF FENCE

NOTES:

1. BASE MAP INFORMATION BASED ON APRIL 16, 2002 AERIAL SURVEY PROVIDED BY ABRAMS AERIAL SURVEY CORPORATION AND FIELD SURVEY INFORMATION COMPILED FROM: SEPTEMBER 18, 1999, MARCH 28, 2001, APRIL 29, 2004, AUGUST 13, 2004, APRIL 7, 2005, OCTOBER 12, 2005 AND MAY 10, 2007, AND A RECORD PLAN, DATED DECEMBER 13, 2007, BY MCINTOSH AND MCINTOSH, P.C., FIELD SURVEYS PERFORMED BY MCINTOSH AND MCINTOSH, P.C.
2. SITE PLAN SHOWS APPROXIMATE LOCATIONS OF PHASE 2 ICM COMPONENTS. REFER TO RECORD DRAWINGS FOR AS–BUILT LOCATIONS.
3. SEE SECTION 4 OF THE PHASE 2 ICM O&M PLAN FOR ADDITIONAL SAMPLING INFORMATION.
4. SURFACE CONTOURS/CONDITIONS WITHIN THE LIMITS OF THE PHASE 1 AND 2 ICM AREAS AND THE ESI FILL AREA WAS COMPILED FROM: JUNE 25, 2003; APRIL 29, 2004; AUGUST 13, 2004; APRIL 7, 2005; JUNE 16, 2006; AND A RECORD PLAN, DATED OCTOBER 8, 2008. FIELD SURVEYS PERFORMED BY MCINTOSH AND MCINTOSH, P.C.

0 100' 200'
GRAPHIC SCALE

FMC CORPORATION
MIDDLEPORT, NEW YORK
PHASE 2 ICM OM&M PLAN

PHASE 2 ICM OM&M ACTIVITIES SITE PLAN

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FIGURE
1

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Appendices

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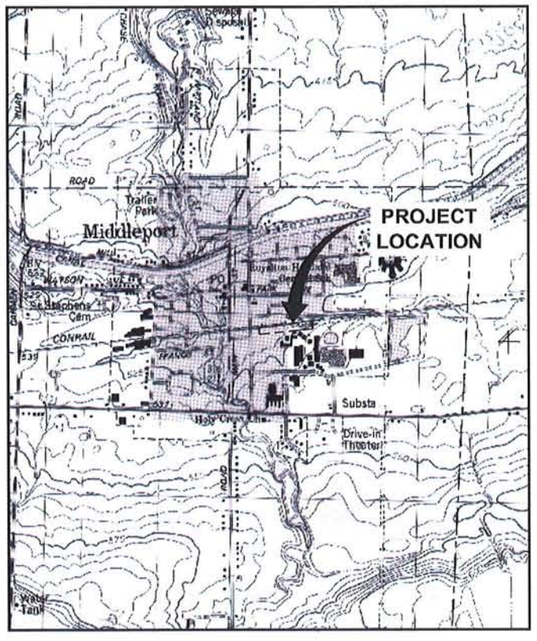
Appendix A

Copies of Record Drawings

RECORD DRAWINGS

NORTH RAILROAD PROPERTY PHASE 2 INTERIM CORRECTIVE MEASURES CONSTRUCTION REPORT



REFERENCE: BASE MAP USGS 7.5 MINUTE QUADRANGLE., MEDINA, NEW YORK.

LOCATION MAP
NOT TO SCALE

DATE ISSUED / DATE REVISED
FEBRUARY 2009

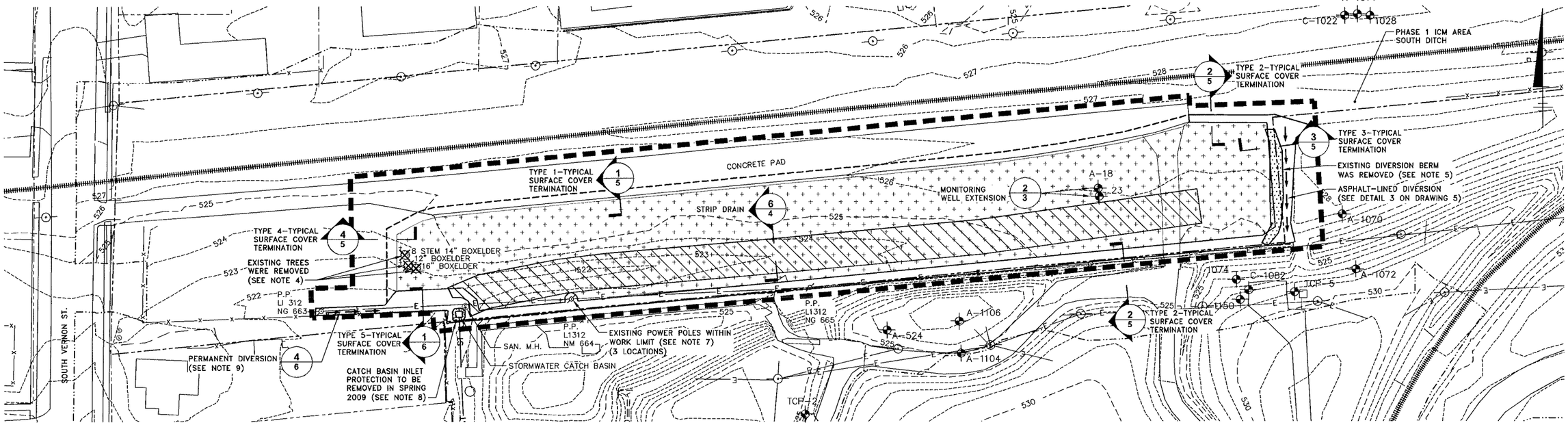
FMC CORPORATION
MIDDLEPORT, NEW YORK

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
ARCADIS of New York, Inc.
(formerly BLASLAND, BOUCK & LEE, INC.)
DATE 7/29/09 BY Joe Molina

ARCADIS

ARCADIS OF NEW YORK, INC.

INDEX TO DRAWINGS



LEGEND:

- APPROXIMATE LIMIT OF WORK
- LIMIT OF PHASE 2 ICM AREA
- LIMIT OF FIELD SURVEY
- APPROXIMATE OFFSITE PROPERTY LINE
- APPROXIMATE FMC PROPERTY LINE
- A-1104 — MONITORING WELL AND WELL NUMBER
- 530 — INDEX ELEVATION CONTOUR
- INTERMEDIATE ELEVATION CONTOUR
- FMC SITE SECURITY FENCE
- RAILROAD
- POWERPOLE
- CULVERT
- ST — APPROXIMATE LOCATION OF UNDERGROUND STORM SEWER
- APPROXIMATE LIMIT OF PHASE 2 ICM SURFACE COVER (SEE DETAIL 2 ON DRAWING 4 AND NOTE 6)
- APPROXIMATE LIMIT OF GEOCOMPOSITE
- APPROXIMATE LIMIT OF ASPHALT COVER (SEE DETAIL 1 ON DRAWING 4)

NOTES:

1. BASEMAP INFORMATION OUTSIDE LIMIT OF FIELD SURVEY BASED ON APRIL 16, 2002 AERIAL SURVEY PROVIDED BY ABRAMS AERIAL SURVEY CORPORATION.
2. FIELD SURVEY INFORMATION SHOWN ON THIS DRAWING WAS COMPILED FROM: JUNE 25, 2003; APRIL 29, 2004; AUGUST 13, 2004; APRIL 7, 2005; JUNE 16, 2006; AND A RECORD PLAN, DATED OCTOBER 8, 2008. FIELD SURVEYS PERFORMED BY MCINTOSH AND MCINTOSH, P.C.
3. THE HORIZONTAL DATUM IS NORTH AMERICAN DATUM (NAD) 1983. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
4. EXISTING TREES WERE CHIPPED AND DISPOSED OF IN THE ESI FILL AREA. STUMPS WERE REMOVED TO A MINIMUM DEPTH OF 4 INCHES BELOW GROUND SURFACE (OR AS NECESSARY TO COMPLETE SURFACE COVER CONSTRUCTION). STUMPS AND/OR ROOT MATERIALS WERE GROUND-UP AND PLACED IN THE ESI FILL AREA. THE REMAINING HOLES WERE BACKFILLED WITH COMPACTED GENERAL FILL PRIOR TO PLACEMENT OF THE GRADING LAYER.
5. SOIL MATERIAL REMOVED DURING SITE PREPARATION (E.G., EXCAVATED SOILS, EXISTING DIVERSION BERM) WAS SPREAD EVENLY BENEATH THE GRADING LAYER. MATERIAL NOT SUITABLE FOR REUSE WITHIN OR BENEATH THE GRADING LAYER WAS PLACED IN THE ESI FILL AREA.
6. FML WAS EXTENDED BENEATH THE NEW ASPHALT PAVING ALONG THE SOUTHERN PERIMETER OF PHASE 2 ICM AREA. REFER TO TYPICAL SURFACE COVER TERMINATION DETAILS ON DRAWINGS 5 AND 6 FOR ADDITIONAL INFORMATION PERTAINING TO THE LIMITS OF THE GRADING LAYER AND FML.
7. EXISTING POWER POLES (POLE NUMBERS 663, 664, AND 665) WITHIN THE WORK LIMIT WERE REPLACED WITH NEW POLES BY NATIONAL GRID PRIOR TO CONSTRUCTION.
8. REMAINING TEMPORARY EROSION AND SEDIMENT CONTROLS (E.G., FILTER LOGS, CATCH BASIN INLET PROTECTION) WILL BE REMOVED IN THE SPRING OF 2009.
9. THE LENGTH OF THE PERMANENT DIVERSION WAS SHORTENED, IN ACCORDANCE WITH FIELD MODIFICATION/CLARIFICATION FORM NO. 01. REFER TO APPENDIX B OF THE PHASE 2 ICM FINAL CONSTRUCTION REPORT FOR THE FIELD MODIFICATION/CLARIFICATION FORMS.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
ARCADIS of New York, Inc.
(formerly BLASLAND, BOUCK & LEE, INC.)
(RECORD DRAWING: MADE FROM DRAWING NO. 5, TRACER NO. 37686G05.DWG, DATED 8/8/07) DATE 7/29/09 BY Joe Molina

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IMAGES:
PROJECT NAME: ---

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1"=40'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING; USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: JOSEPH MOLINA, III
Professional Engineer's No.: 072644
State: NY
Date Signed: 7/29/09
Designed by: MBH/TAS
Drawn by: AGS
Checked by: TWY

STATE OF NEW YORK JOSEPH MOLINA III 072644 LICENSED PROFESSIONAL ENGINEER

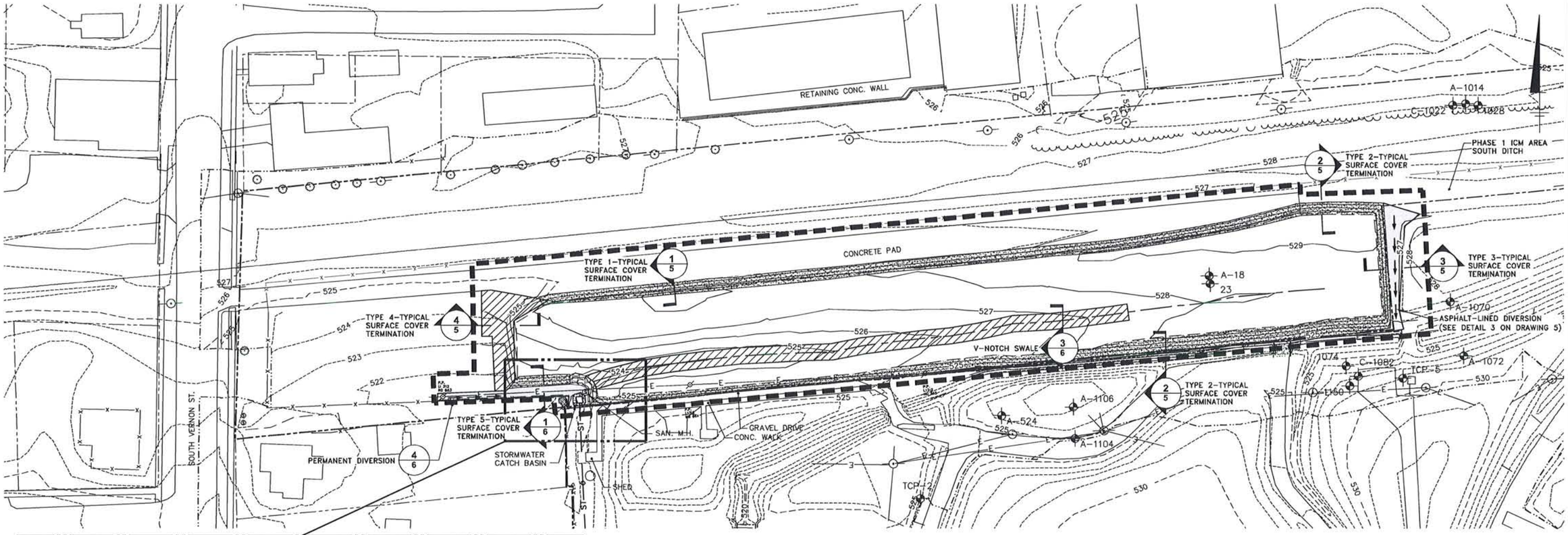
ARCADIS
ARCADIS OF NEW YORK, INC.

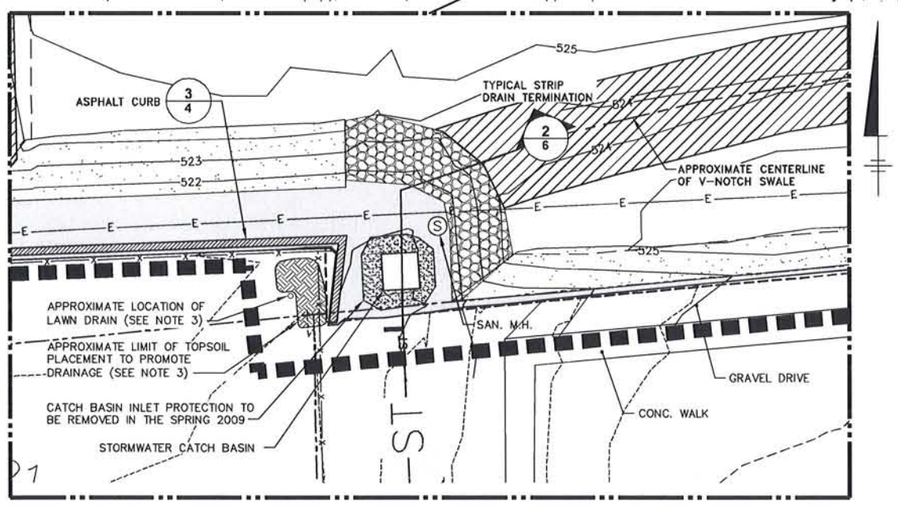
FMC CORPORATION • MIDDLEPORT, NEW YORK
NORTH RAILROAD PROPERTY - PHASE 2 ICM CONSTRUCTION REPORT

SITE PLAN

ARCADIS Project No.: B0037736.0000.00018
Date: FEBRUARY 2009
ARCADIS
6723 TOWPATH RD
PO BOX 66
SYRACUSE, NY 13214-0066
TEL. 315.446.9120

1





PLAN ENLARGEMENT

0 10' 20'

SCALE: 1"=10'

LEGEND:

- APPROXIMATE LIMIT OF WORK
- LIMIT OF PHASE 2 ICM AREA
- LIMITS OF FIELD SURVEY
- APPROXIMATE OFFSITE PROPERTY LINE
- APPROXIMATE FMC PROPERTY LINE
- 530 FINAL GRADE CONTOUR
- GRADE BREAK
- TEMPORARY EROSION CONTROL MAT (SEE NOTE 2)
- RIPRAP
- ASPHALT PAVING
- FINE STONE

NOTES:

1. REFER TO RECORD DRAWING 1 FOR ADDITIONAL BASEMAP INFORMATION.
2. TEMPORARY EROSION CONTROL MAT LOCATION IS APPROXIMATE AND IS BASED ON FIELD OBSERVATIONS.
3. FOLLOWING CONSTRUCTION OF THE ASPHALT CURB, ADDITIONAL TOPSOIL WAS PLACED TO PROMOTE POSITIVE DRAINAGE TO AN EXISTING LAWN DRAIN LOCATED ON THE NORTHERN MOST RESIDENTIAL PROPERTY SOUTHWEST OF THE PHASE 2 ICM AREA. LOCATION OF THE EXISTING LAWN DRAIN AND LIMIT OF TOPSOIL PLACEMENT WERE ESTIMATED FROM FIELD OBSERVATIONS.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
ARCADIS of New York, Inc.
(formerly BLASLAND, BOUCK & LEE, INC.)
(RECORD DRAWING: MADE FROM DRAWING NO. 6, TRACER NO. 37686G06.DWG, DATED 8/8/07) DATE 7/29/09 BY Joe Molina

1"=40' 40' 0 40' 80'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING; USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: JOSEPH MOLINA, III
Professional Engineer's No.: 072644
State: NY | Date Signed: 7/29/09 | Project Mgr.: TWY
Designed by: MBH/TAS | Drawn by: AGS | Checked by:

STATE OF NEW YORK * JOSEPH MOLINA * 072644 * LICENSED PROFESSIONAL ENGINEER

ARCADIS
ARCADIS OF NEW YORK, INC.

FMC CORPORATION • MIDDLEPORT, NEW YORK
NORTH RAILROAD PROPERTY - PHASE 2 ICM CONSTRUCTION REPORT

FINAL GRADING PLAN

ARCADIS Project No.: B0037736.0000.00018
Date: FEBRUARY 2009
ARCADIS
6723 TOWPATH RD
PO BOX 66
SYRACUSE, NY 13214-0066
TEL. 315.446.9120

2

XREFS: 37736X05 37736X01 37736X00
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PROJECT NAME: —

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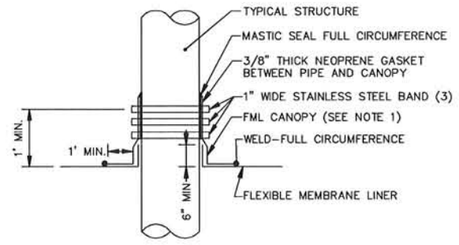
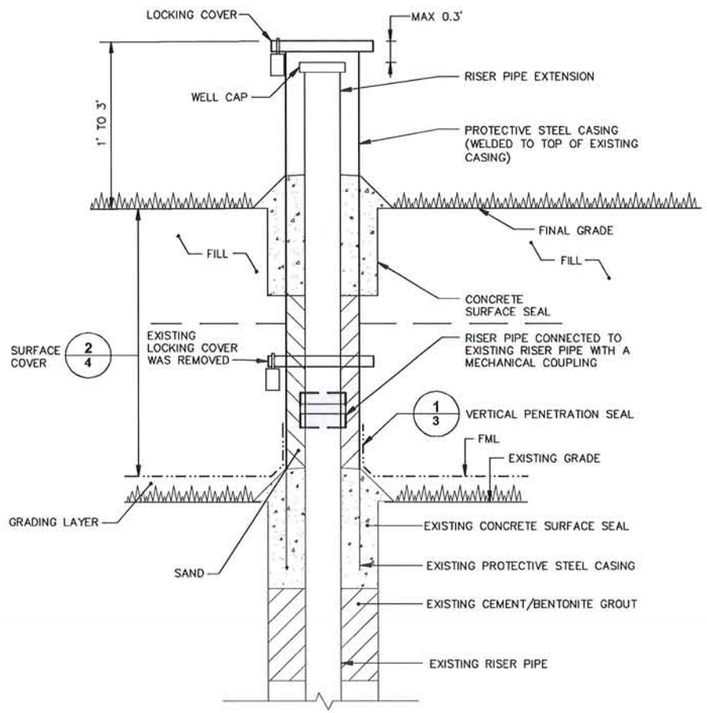


NOTE:

1. EXTRA FML MATERIAL WAS PROVIDED AT THE CANOPY TO ACCOMMODATE FML MATERIAL SHRINKAGE.

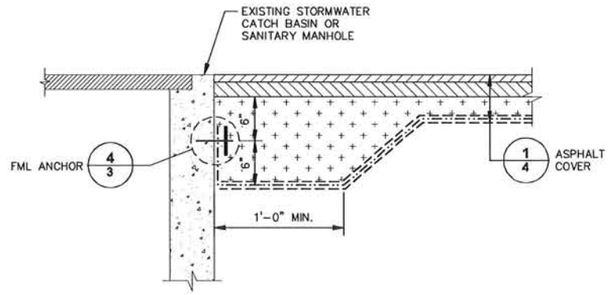
VERTICAL PENETRATION SEAL (1)

NOT TO SCALE



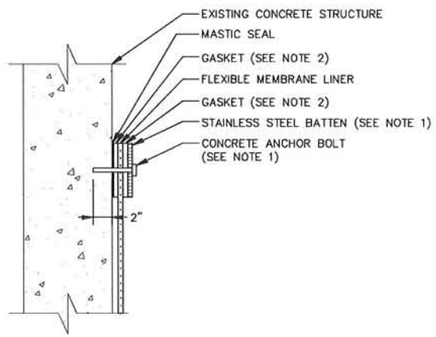
MONITORING WELL EXTENSION (2)

NOT TO SCALE



FML TERMINATION AT THE EXISTING SANITARY MANHOLE AND STORMWATER CATCH BASIN (3)

NOT TO SCALE



NOTES:

1. AT THE STORMWATER CATCH BASIN (I.E., THE SQUARE STRUCTURE), STAINLESS STEEL BATTEN STRIPS AND CONCRETE ANCHOR BOLTS WERE USED TO ANCHOR THE FML TO THE WALL OF THE CATCH BASIN (AS SHOWN). THE BATTEN STRIP WAS 1/4-INCH-THICK BY 2 INCHES WIDE, ANCHORED WITH 3/8-INCH-DIAMETER BY 3-INCH-LONG STAINLESS STEEL BOLTS. AT THE SANITARY MANHOLE (I.E., THE ROUND STRUCTURE), A 1/2-INCH-WIDE STAINLESS STEEL BAND CLAMP WAS USED IN PLACE OF THE BATTEN STRIP AND THE ANCHOR BOLTS.
2. GASKET MATERIAL CONSISTS OF 1/4-INCH-THICK CLOSED-CELL NEOPRENE WITH AN ADHESIVE BACKING.

FML ANCHOR (4)

NOT TO SCALE

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
ARCADIS of New York, Inc.
(formerly BLASLAND, BOUCK & LEE, INC.)

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: JOSEPH MOLINA, III
Professional Engineer's No.: 072644
State: NY | Date Signed: 7/29/09 | Project Mgr: TWY
Designed by: MBH/TAS | Drawn by: AGS | Checked by:

STATE OF NEW YORK · JOSEPH MOLINA III · LICENSED PROFESSIONAL ENGINEER · 072644

ARCADIS
ARCADIS OF NEW YORK, INC.

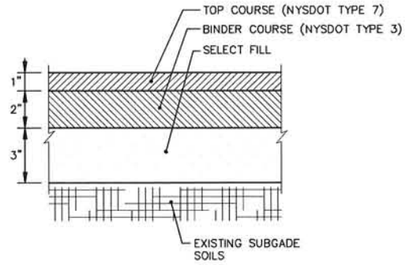
FMC CORPORATION • MIDDLEPORT, NEW YORK
NORTH RAILROAD PROPERTY - PHASE 2 ICM CONSTRUCTION REPORT

DETAILS AND SECTIONS

ARCADIS Project No.: B0037736.0000.00018
Date: FEBRUARY 2009
ARCADIS, 6723 TOWPATH RD, PO BOX 66, SYRACUSE, NY 13214-0066, TEL. 315.446.9120

3

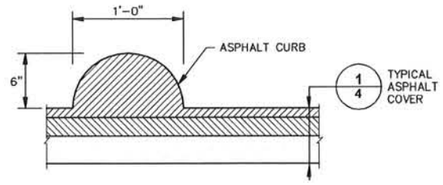
CITY: SYRACUSE DIV/GROUP: 141/ENV DB: AGS LD: AGS PIC: PM: TWY TM: MBH LYR:ON=*;OFF=*REF* G:\ENV\CAD\SYRACUSE\ACTIB\B0037736\0000\00018\DWG\FCR-P-H2\RECORD\PH2-ICM\37736G03.DWG LAYOUT: 3 SAVED: 7/28/2009 4:43 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTCONT1.CTB PLOTTED: 7/29/2009 4:43 PM BY: SAMOS, ALEX
XREFS: 37736X00 IMAGES: PROJECTNAME: —



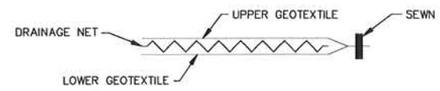
NOTE:

1. TOP COURSE WAS INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF THE BINDER COURSE; THEREFORE, TACK AND PRIME COATS WERE NOT REQUIRED.

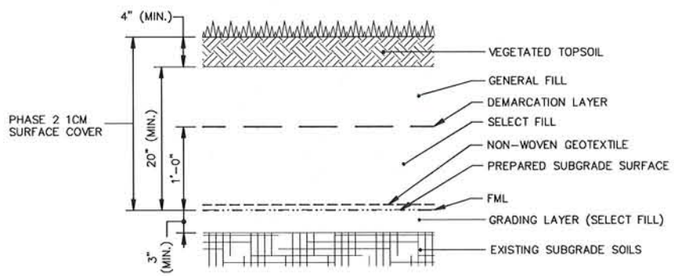
TYPICAL ASPHALT COVER (1)
NOT TO SCALE



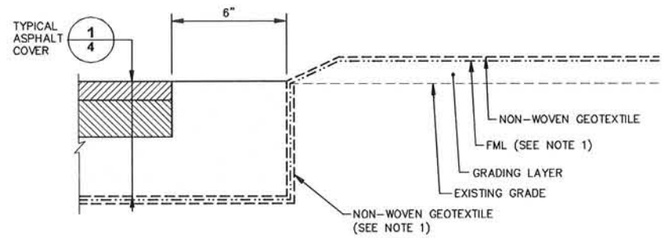
ASPHALT CURB (3)
NOT TO SCALE



GEOCOMPOSITE TERMINATION (5)
NOT TO SCALE



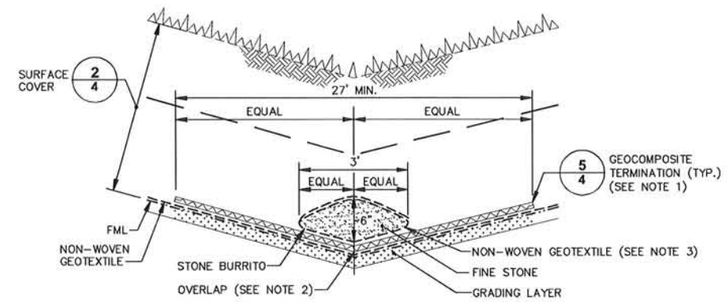
SURFACE COVER (2)
NOT TO SCALE



NOTE:

1. FML WAS EXTENDED BENEATH THE FULL WIDTH OF THE ASPHALT PAVING ALONG THE SOUTHERN PERIMETER OF THE PHASE 2 ICM AREA ONLY. AN ADDITIONAL NON-WOVEN GEOTEXTILE WAS PLACED BENEATH THE FML, WHERE THE FML EXTENDS BENEATH THE FULL WIDTH OF THE ASPHALT PAVING.

FML AT EDGE OF ASPHALT (4)
NOT TO SCALE



NOTES:

1. GEOCOMPOSITE TERMINATION APPLIES AT NORTHERN, SOUTHERN, AND EASTERN PERIMETERS OF GEOCOMPOSITE.
2. GEOCOMPOSITE WAS OVERLAPPED AND SEAMED ALONG THE LENGTH OF ADJACENT EDGES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. GEOTEXTILE HAS A FULL WIDTH OVERLAP.

STRIP DRAIN (6)
NOT TO SCALE

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
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(RECORD DRAWING: MADE FROM DRAWING NO. 8, TRACER NO. 37686G08.DWG, DATED 8/8/07) DATE 7/29/09 BY Joe Molina

CITY: SYRACUSE DIV/GROUP: 141/ENV DB: AGS LD: AGS PIC: PM: TWY TM: MBH LYR:ON=*;OFF=*REF*
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XREFS: PROJECTNAME: ---
37736X00 IMAGES:

NOT TO SCALE

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: JOSEPH MOLINA, III
Professional Engineer's No.: 072644
State: NY | Date Signed: 7/29/09 | Project Mgr: TWY
Designed by: MBH/TAS | Drawn by: AGS | Checked by:

STATE OF NEW YORK · JOSEPH MOLINA III · 072644 · LICENSED PROFESSIONAL ENGINEER

ARCADIS
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FMC CORPORATION • MIDDLEPORT, NEW YORK
NORTH RAILROAD PROPERTY - PHASE 2 ICM CONSTRUCTION REPORT

DETAILS AND SECTIONS

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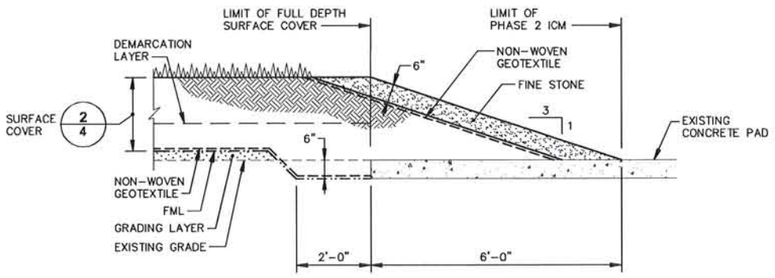
Date: FEBRUARY 2009

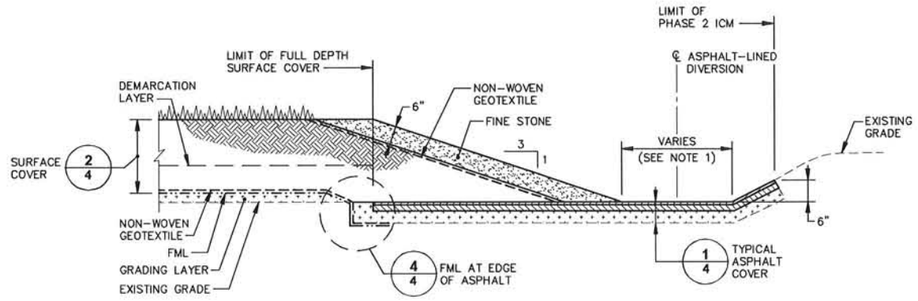
ARCADIS
6723 TOWPATH RD
PO BOX 66
SYRACUSE, NY 13214-0066
TEL. 315.446.9120

4



TYPE 1 - TYPICAL SURFACE COVER TERMINATION (NORTH PERIMETER) 1

NOT TO SCALE

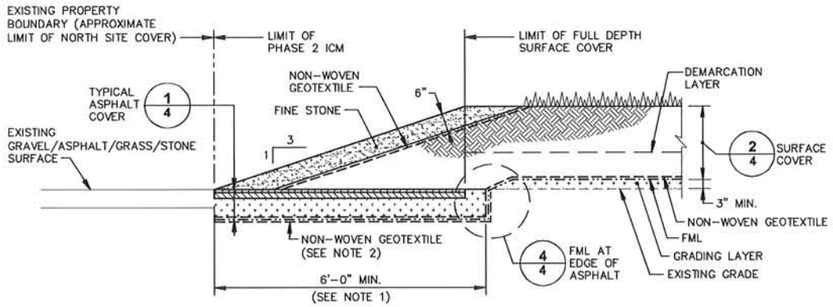


NOTE:

1. BOTTOM WIDTH OF ASPHALT LINED DIVERSION VARIES FROM 0' TO APPROXIMATELY 9'-0".

TYPE 3 - TYPICAL SURFACE COVER TERMINATION (EAST PERIMETER) 3

NOT TO SCALE

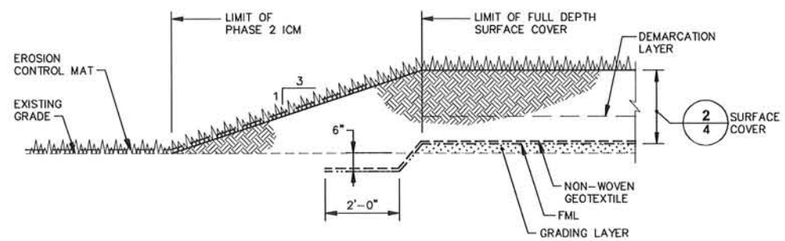


NOTES:

1. ALONG SOUTHERN PERIMETER, THE ASPHALT COVER EXTENDED TO EXISTING ASPHALT SURFACE (WHERE APPLICABLE) OR A MINIMUM OF 1'-0" BEYOND THE EXISTING PROPERTY BOUNDARY (E.G., GRASS AND GRAVEL AREAS).
2. FML WAS EXTENDED BENEATH THE FULL WIDTH OF THE ASPHALT PAVING ALONG THE SOUTHERN PERIMETER OF THE PHASE 2 ICM AREA ONLY. AN ADDITIONAL NON-WOVEN GEOTEXTILE WAS PLACED BENEATH THE FML, WHERE THE FML EXTENDS BENEATH THE FULL WIDTH OF THE ASPHALT PAVING.

TYPE 2 - TYPICAL SURFACE COVER TERMINATION (NORTHEASTERN AND SOUTHERN PERIMETERS) 2

NOT TO SCALE



TYPE 4 - TYPICAL SURFACE COVER TERMINATION (WEST PERIMETER) 4

NOT TO SCALE

RECORD DRAWINGS
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ARCADIS of New York, Inc.
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NOT TO SCALE

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: JOSEPH MOLINA, III		
Professional Engineer's No.: 072644		
State: NY	Date Signed: 7/29/09	Project Mgr: TWY
Designed by: MBH/TAS	Drawn by: AGS	Checked by:

STATE OF NEW YORK JOSEPH MOLINA III LICENSED PROFESSIONAL ENGINEER 072644

ARCADIS
ARCADIS OF NEW YORK, INC.

FMC CORPORATION • MIDDLEPORT, NEW YORK
NORTH RAILROAD PROPERTY - PHASE 2 ICM CONSTRUCTION REPORT

DETAILS AND SECTIONS

ARCADIS Project No.: B0037736.0000.00018
Date: FEBRUARY 2009

ARCADIS
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SYRACUSE, NY 13214-0066
TEL. 315.446.9120

5

CITY: SYRACUSE DIV/GROUP: 14/ENV DB: AGS LD: AGS PIC: PM: TWY TM: MBH LYR:ON=*;OFF=*REF*
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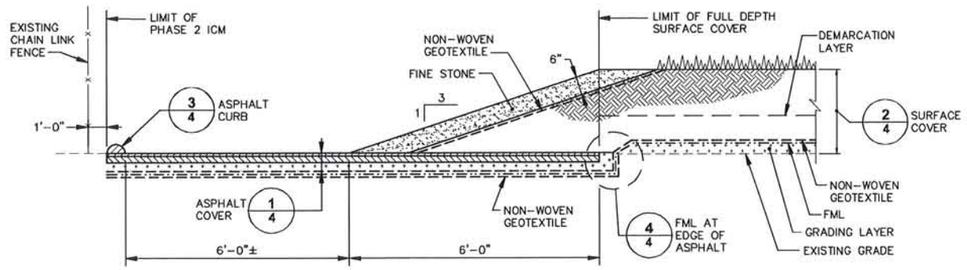
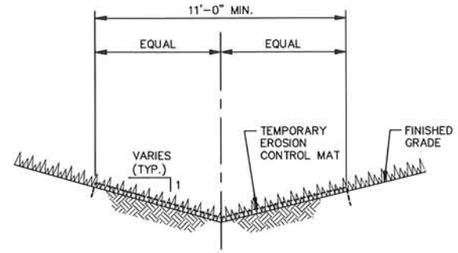


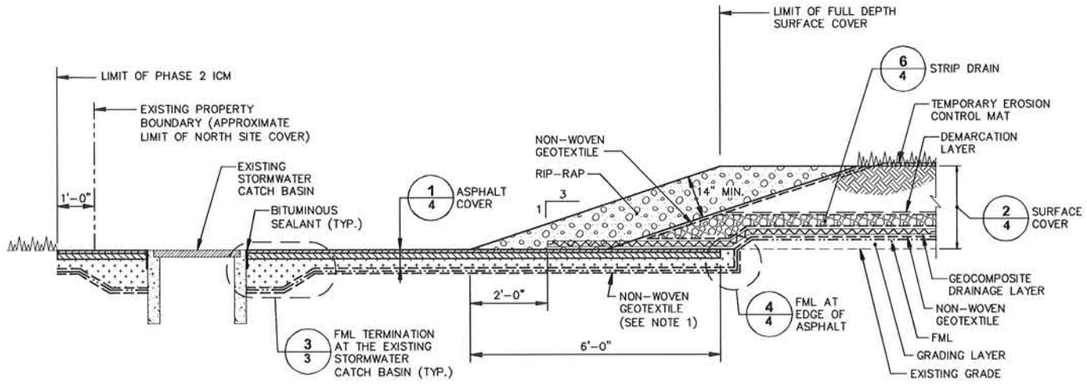
TYPE 5 - TYPICAL SURFACE COVER TERMINATION (SOUTHWEST PERIMETER ALONG EXISTING FENCE LINE) 1

NOT TO SCALE



V-NOTCH SWALE 3

NOT TO SCALE

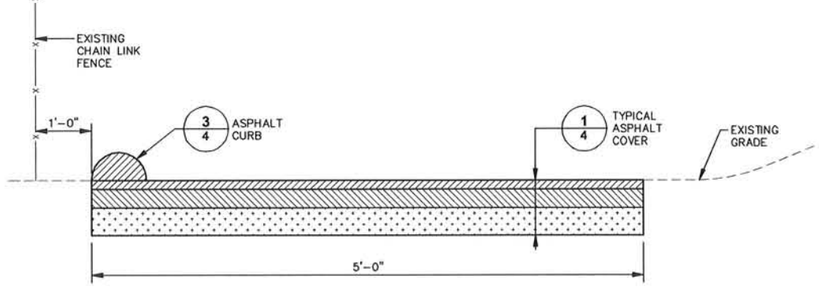


NOTE:

1. FML WAS EXTENDED BENEATH THE FULL WIDTH OF THE ASPHALT PAVING ALONG THE SOUTHERN PERIMETER OF THE PHASE 2 ICM AREA ONLY. AN ADDITIONAL NON-WOVEN GEOTEXTILE WAS PLACED BENEATH THE FML, WHERE THE FML EXTENDS BENEATH THE FULL WIDTH OF THE ASPHALT PAVING.

TYPICAL STRIP DRAIN TERMINATION 2

NOT TO SCALE



NOTE:

1. PERMANENT DIVERSION HAS A LONGITUDINAL SLOPE OF APPROXIMATELY 0.2% TOWARD THE EXISTING STORMWATER CATCH BASIN.

PERMANENT DIVERSION 4

NOT TO SCALE

RECORD DRAWINGS
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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: JOSEPH MOLINA, III
Professional Engineer's No.: 072644
State: NY | Date Signed: 7/29/09 | Project Mgr: TWY
Designed by: MBH/TAS | Drawn by: AGS | Checked by:

STATE OF NEW YORK · JOSEPH MOLINA III · LICENSED PROFESSIONAL ENGINEER · 072644

ARCADIS
ARCADIS OF NEW YORK, INC.

FMC CORPORATION • MIDDLEPORT, NEW YORK
NORTH RAILROAD PROPERTY - PHASE 2 ICM CONSTRUCTION REPORT

DETAILS AND SECTIONS

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PO BOX 66
SYRACUSE, NY 13214-0066
TEL. 315.446.9120

6

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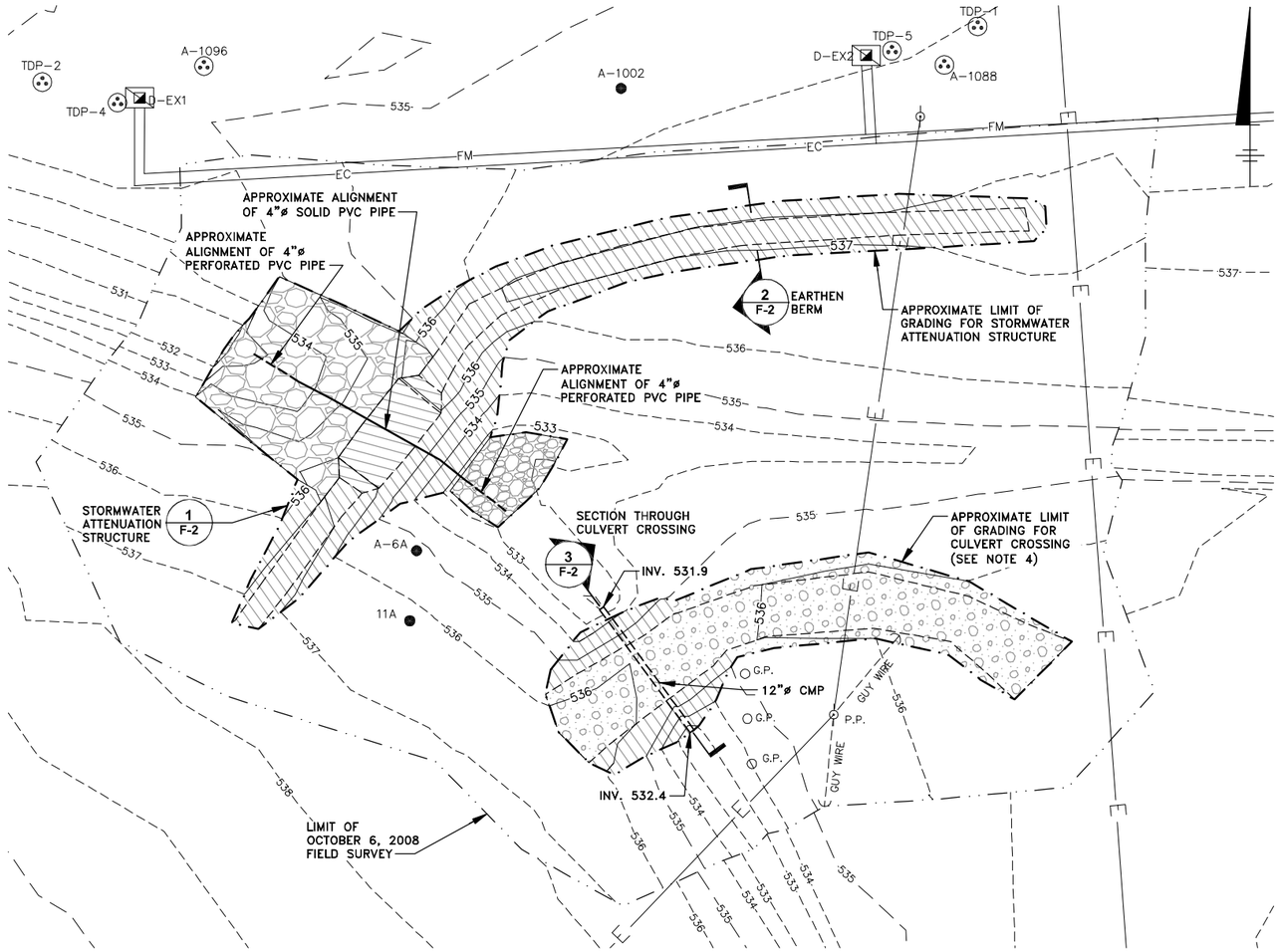

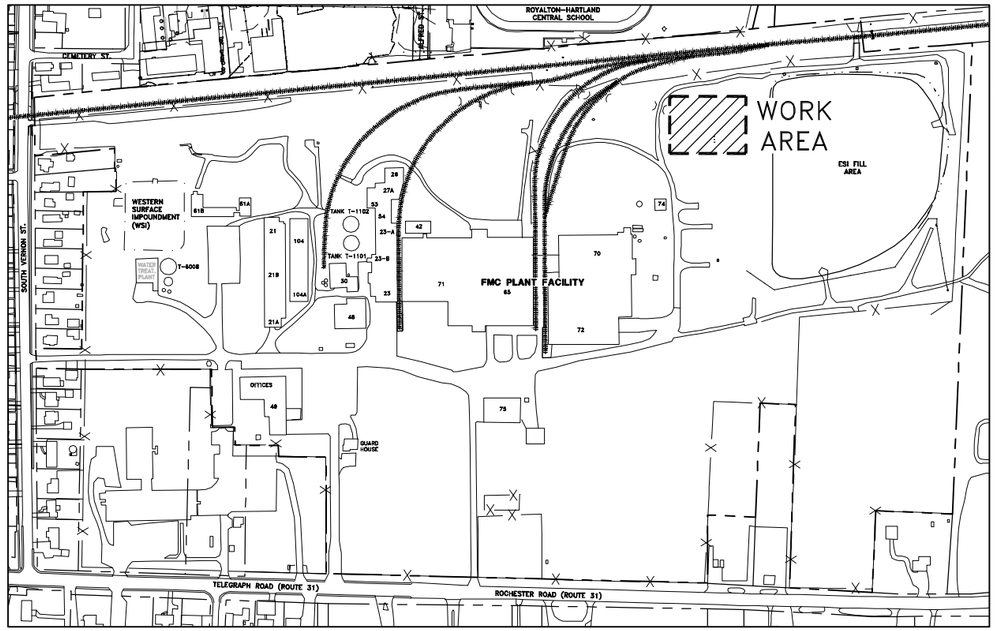

KEY MAP

0 500' 1000'

GRAPHIC SCALE

LEGEND:

- PROPERTY LINE
- 545 EXISTING GRADE INDEX CONTOUR
- 543 EXISTING GRADE INTERMEDIATE CONTOUR
- OVERHEAD UTILITY AND POLE
- FM ABOVEGROUND FORCEMAIN
- EC ABOVEGROUND ELECTRICAL CONDUIT
- PUMP HOUSE
- SHALLOW BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL
- DEEP BEDROCK MONITORING WELL
- EXTRACTION WELL
- SHALLOW BEDROCK PIEZOMETER
- OVERBURDEN PIEZOMETER
- DEEP BEDROCK PIEZOMETER
- APPROXIMATE LIMIT OF PERMANENT EROSION CONTROL MAT
- APPROXIMATE LIMIT OF TEMPORARY EROSION CONTROL MAT
- APPROXIMATE LIMIT OF RIPRAP
- APPROXIMATE LIMIT OF STONE
- APPROXIMATE LIMIT OF GRAVEL
- GRADE BREAK
- 536 FINAL GRADE CONTOUR

NOTES:

1. BASEMAP INFORMATION SHOWN ON THIS FIGURE WAS COMPILED FROM FIELD SURVEYS PERFORMED BY McINTOSH AND McINTOSH, P.C. DATED SEPTEMBER 18, 1999; MARCH 28, 2001; APRIL 29, 2004; AUGUST 13, 2004; APRIL 7, 2005; AND RECORD DRAWINGS DATED SEPTEMBER 9, 2005 (PHASE 1 ICM AS-BUILT) AND OCTOBER 6, 2008 (REVISED ON FEBRUARY 10, 2009).
2. EXISTING AND FINAL GRADE CONTOUR INTERVAL EQUALS 1 FOOT.
3. ELECTRICAL LINE IS SHOWN OFFSET FROM THE FORCEMAIN FOR CLARITY PURPOSES. ELECTRICAL LINE RUNS WITHIN CONDUIT, WHICH IS ANCHORED TO THE SUPPORT POSTS FOR THE ABOVEGROUND FORCEMAIN. WHERE FORCEMAIN RUNS UNDERGROUND THE ELECTRICAL LINE RUNS IN A TRENCH ADJACENT TO THE FORCEMAIN.
4. THE EXISTING CULVERT CROSSING WAS RAISED, IN ACCORDANCE WITH FIELD MODIFICATION/CLARIFICATION FORM NO. 02. REFER TO APPENDIX B OF THE PHASE 2 ICM FINAL CONSTRUCTION REPORT FOR THE FIELD MODIFICATION/CLARIFICATION FORMS.

0 30' 60'

GRAPHIC SCALE

FMC CORPORATION
MIDDLEPORT, NEW YORK
PHASE 2 ICM CONSTRUCTION REPORT

PHASE 2 ICM STORMWATER MANAGEMENT CONTROLS - SITE PLAN

ARCADIS

FIGURE
F-1

CITY: SYRACUSE DIV/GROUP: 14/ENV DB: RLP GIS AGS PM: JLITWY
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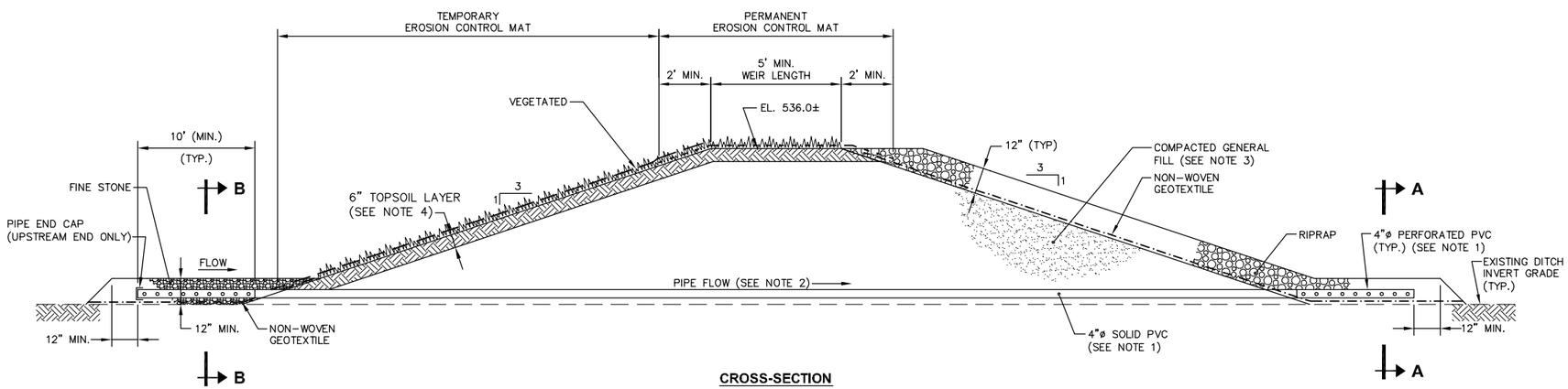
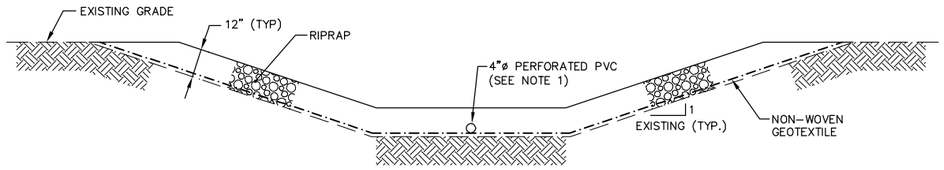
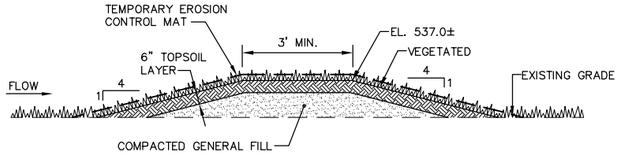


CROSS-SECTION



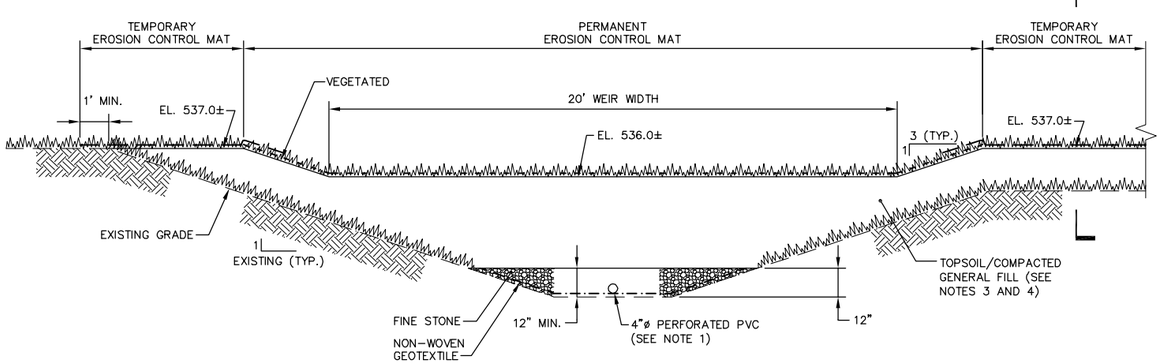
SECTION A-A



EARTHEN BERM

NOT TO SCALE

2



SECTION B-B

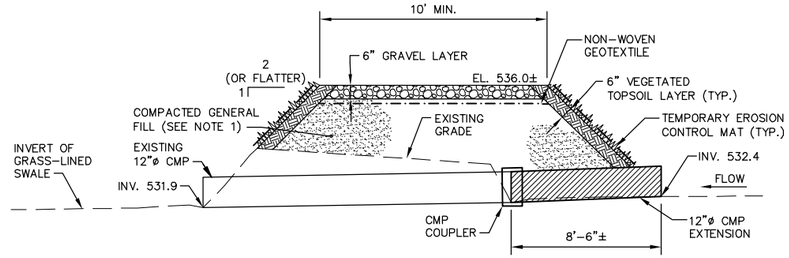
NOTES:

1. PERFORATED PVC PIPE IS DR35 MANUFACTURED BY IPEX. SOLID PVC PIPE IS SCHEDULE 40. ALL CONNECTIONS WERE MADE IN ACCORDANCE WITH PIPE MANUFACTURERS SPECIFICATIONS/RECOMMENDATIONS.
2. PIPE SLOPE EQUAL TO EXISTING DITCH INVERT SLOPE (I.E., PRE-CONSTRUCTION).
3. GENERAL FILL WAS PLACED IN HORIZONTAL LAYERS NOT MORE THAN 6 INCHES IN THICKNESS, AND COMPACTED TO OBTAIN 96 PERCENT MAXIMUM DRY DENSITY (STANDARD PROCTOR), IN ACCORDANCE WITH FIELD MODIFICATION/CLARIFICATION FORM NO. 02.
4. A 6-INCH LAYER OF TOPSOIL WAS INSTALLED ON THE UPGRADIENT FACE OF THE STORMWATER ATTENUATION STRUCTURE (AS SHOWN), IN ACCORDANCE WITH FIELD MODIFICATION/CLARIFICATION FORM NO. 02.
5. REFER TO APPENDIX B OF THE PHASE 2 ICM FINAL CONSTRUCTION REPORT FOR THE FIELD MODIFICATION/CLARIFICATION FORMS.

STORMWATER ATTENUATION STRUCTURE

NOT TO SCALE

1



NOTE:

1. GENERAL FILL WAS PLACED IN HORIZONTAL LAYERS NOT MORE THAN 12 INCHES IN THICKNESS, AND COMPACTED TO OBTAIN 96 PERCENT MAXIMUM DRY DENSITY (STANDARD PROCTOR), IN ACCORDANCE WITH FIELD MODIFICATION/CLARIFICATION FORM NO. 02. REFER TO APPENDIX B OF THE PHASE 2 ICM FINAL CONSTRUCTION REPORT FOR THE FIELD MODIFICATION/CLARIFICATION FORMS.

SECTION THROUGH CULVERT CROSSING

NOT TO SCALE

3

FMC CORPORATION
MIDDLEPORT, NEW YORK
PHASE 2 ICM CONSTRUCTION REPORT

PHASE 2 ICM STORMWATER MANAGEMENT CONTROLS - SECTIONS AND DETAILS

ARCADIS

FIGURE
F-2

Appendix B

Inspection Form

Inspection Form

Phase 2 ICM OM&M Plan

North Railroad Property
FMC Corporation - Middleport, New York

Inspector Name: ***Date/Time:***	***Weather:***	***Other Parties Present (and affiliation):***

I. Phase 2 ICM Area Surface Covers

Yes	*No*	*(If Yes, describe below, identify location on site map, and provide photo.)*
[ ]	[ ]	Is the grass cover growing evenly with the surface cover area?
[ ]	[ ]	Is the grass growth even and properly maintained? Are there any distressed areas? (describe below)
[ ]	[ ]	Are there any signs of erosion?
[ ]	[ ]	Are there any ponded areas?
[ ]	[ ]	Is there any evidence of slope failure?
[ ]	[ ]	Is there any evidence of burrowing animals?
[ ]	[ ]	Is the non-woven geotextile exposed?
[ ]	[ ]	Are there any trees, bushes, or other large vegetation growing on the surface cover area?
[ ]	[ ]	Is there any debris, accumulated sediments, or excessive vegetation present in the surface cover area V-notch swale?

Comments/Recommended Actions

II. Strip Drain Termination

Yes	*No*	*(If Yes, describe below, identify location on site map, and provide photo.)*
[ ]	[ ]	Is there any sign of erosion?
[ ]	[ ]	Is any of the rip rap dislodged exposing the strip drain? (describe below)
[ ]	[ ]	Is there sediment visible directly down-gradient from the outlet structure?

Comments/Recommended Actions

III. Stormwater Attenuation Structure

Yes	*No*	*(If Yes, describe below, identify location on site map, and provide photo.)*
[ ]	[ ]	Is there any sign of erosion, sloughing or displacement of structural material or grass lining? (describe below)
[ ]	[ ]	Is there water flowing in the downstream ditch? If yes, is the water clear or turbid? (describe below)
[ ]	[ ]	Is there sediment build up upstream of the attenuation structure? (describe below)
[ ]	[ ]	Is there evidence of conditions (e.g., burrowing animals, vegetation growth) that may impede flow? (describe below)

Comments/Recommended Actions

IV. Swales and Diversions

Yes	*No*	*(If Yes, describe below, identify location on site map, and provide photo.)*
[ ]	[ ]	Is there any sign of erosion along the edges of the asphalt lining? (describe below)
[ ]	[ ]	Is there any sign of cracking, depressions or holes in the asphalt lining? (describe below)
[ ]	[ ]	Are there any cracks or breaks in the asphalt curbs? (describe below)
[ ]	[ ]	Is there any debris, accumulated sediments, or excessive vegetation?
[ ]	[ ]	Is there any water flowing in the swales? If yes, is the water clear or turbid? (describe below)

Comments/Recommended Actions

Inspection Form

Phase 2 ICM OM&M Plan

North Railroad Property
FMC Corporation - Middleport, New York

Inspector Name: ***Date/Time:***	***Weather:***	***Other Parties Present (and affiliation):***

V. Catch Basin Structure

Yes	*No*	*(If Yes, describe below, identify location on site map, and provide photo.)*
[ ]	[ ]	Is there any sign of erosion or asphalt damage in the vicinity of the catch basin structure? (describe below)
[ ]	[ ]	Is there any debris or accumulated sediments within the catch basin structure?
[ ]	[ ]	Is there any apparent damage to the catch basin structure? (describe below)

Comments/Recommended Actions

VI. Surface Water Samples

Sample Information

Sample Number	***Describe the surface water sample characteristics (i.e., turbidity, color, presence of debris, odor):***

Comments/Recommended Actions

VII. Photographic Documentation

Instructions: Photo documentation is required during inspection. Describe each photo and mark its location and view direction on a site map.

Photo Number	***Location***	***Inspection Item Number and Photo Description***

VIII. Problem Identification and Corrective Action

If applicable, describe any problem(s) identified, immediate actions taken to correct or mitigate the problem(s), documentation of NYSDEC notification, the nature and timeframe for implementation of planned corrective actions, and for follow-up inspections.

IX. Site Use

Yes	*No*	*(If Yes, describe below and provide photo.)*
[ ]	[ ]	Have there been any changes to the use of the Phase 2 ICM Area?
[ ]	[ ]	Has anything been constructed on the cover system?

Comments