



Public Notice

Applicant: CWM Chemical
Services LLC

Published: April 2, 2015
Expires: May 2, 2015

U.S. Army Corps
of Engineers
Buffalo District
CELRB-TD-R

Application No: 2000-01534
Section: NY

All written comments should reference the above Application No. and be addressed to:
U.S. Army Corps of Engineers
Attn: Kathleen Buckler
US Army Corps of Engineers, Buffalo District
1776 Niagara Street
Buffalo, NY 14207

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

**Application for Permit under Authority of
Section 404 of the Clean Water Act (33 U.S.C. 1344).**

APPLICANT: CWM Chemical Services, LLC; 1550 Balmer Road, Model City, New York 14107

WATERWAY & LOCATION: Federal jurisdiction wetlands adjacent to Twelvemile Creek and Fourmile Creek; located at 1550 Balmer Road, Town of Porter, Niagara County, New York.

LATITUDE & LONGITUDE: Latitude North: 43.2253
Longitude West: -78.9601

PROJECT PURPOSE

Basic: Expand an existing hazardous waste disposal facility.

Overall: Expansion of an existing disposal facility to ensure that locally controlled, environmentally sound, and reliable landfill disposal capacity is secured and will provide for cost-efficient long-term disposal capacity.

Water Dependency Determination: The basic purpose of the proposed project is to expand an existing hazardous waste facility, and the activity is associated with a discharge which is proposed for a special aquatic site. Expanding a waste management facility does not require access or proximity to or siting within the special aquatic site in question to fulfill its basic purpose; therefore, the project is not water dependent.

PROPOSED WORK: CWM Chemical Services, LLC (the applicant) is proposing to place fill material

into 2.57 acres of waters of the U.S in conjunction with a 43.5-acre expansion of the existing CWM Model City Hazardous Waste Management Facility. The expansion will occur within a currently developed portion of the Model City Facility. Structures that are currently located in the proposed RMU-2 project area will be relocated within the Model City Facility. The existing Drum Management Building, located west of RMU-1, is located within the footprint of RMU-2. A new Drum Management Building will be located east of RMU-1. The new Drum Management Building will include facilities for storage of drums and other small containers, offices, a laboratory, and medical room.

In addition to construction of the RMU-2 facility, the proposed project consists of relocating existing facilities, installing new drainage ditches, culverts, access roads and ramps, closure of Facultative (Fac) Ponds 3 and 8, and construction of proposed Fac Pond 5. Areas that will be disturbed by these activities cumulatively total 71 acres. The Project Site boundary is also the limit of disturbance for the proposed Project. As a result, all jurisdictional wetland areas within the Project Site, totaling 2.57 acres, will be permanently filled during Project construction.

Avoidance and Minimization Information: Below are the alternatives CWM considered for the proposed expansion of the existing landfill:

- No action: under the No Action Alternative, land disposal capacity would be exhausted by the year 2015 based on current waste receipt rates. This alternative would fail to achieve the project's purpose and need.
- Action at a different location within the Model City Facility: under this alternative, the eastern area of the CWM facility could be used for RMU-2. Developing this area would result in increased wetland impacts, increased visual impacts, and increased overall costs.
- Action at a different site: under this alternative, the proposed action would be constructed outside the existing Model City Facility. The existing Facility contains infrastructure necessary to maintain a hazardous waste treatment, storage, and disposal facility. This infrastructure includes a fully integrated wastewater treatment plant used to treat leachate from active and closed landfills and a stabilization facility necessary to treat hazardous waste to Federal Land Disposal Restriction standards prior to disposal. The existing Facility also includes groundwater, surface-water, and air monitoring systems. Any off-site alternative would require duplication of these infrastructure systems. Also, given the size of the development footprint required for a new facility, it is unlikely that wetland impacts could be limited to 2.57 acres.
- Different technological approach: application of the following technological alternatives would not eliminate the need for the RMU-2 or its potential wetland impacts: 1) reduction at the source (waste minimization); 2) recovery, recycling, or reuse of wastes that continue to be generated; 3) detoxification, treatment, or destruction of wastes that cannot be recycled or reduced.
- Design subalternatives: none of the following design subalternatives would significantly change the footprint of the proposed facility or its potential wetland impacts: 1) change in materials; 2) changes in construction techniques; and 3) changes in operational techniques.

Proposed Mitigation: The proposed mitigation is in the conceptual phase and a detailed mitigation plan has not yet been submitted. The following is a summary of the DRAFT mitigation plan:

To mitigate for the permanent loss of wetlands within the project site, the applicant proposes to create 4.37 acres of successional scrub/shrub wetland on a 21-acre parcel of land owned by CWM, which is

located immediately west of the project site (see sheets 19 and 20 of 20). The mitigation is designed to succeed from scrub/shrub into forested wetlands. This represents a mitigation ratio of approximately 1.7 to 1.

EXISTING CONDITIONS: The CWM Model City Facility occupies approximately 710 acres, which includes 630 acres of land in the Town of Porter and 80 acres of land in the Town of Lewiston. The existing facility consists of the currently active landfill (Residuals Management Unit 1, or RMU-1), which is approaching full capacity. The proposed expansion will occur within a currently developed portion of the Model City Facility, and will be designated Residuals Management Unit 2 (RMU-2).

Description of delineation of waters of the US: A wetland delineation report dated June 2009 was submitted to this office, and the wetland boundaries were subsequently verified by the Corps on September 13, 2011. There are 12 federally jurisdictional wetlands on-site totaling 2.57 acres. Wetlands C (0.13 acre), J (0.92 acre), M (0.54 acre), and O (0.06 acre) contain palustrine forested communities. The remaining wetlands are low-quality, previously disturbed/degraded wetlands dominated by non-native vegetation including *Phragmites australis*, *Typha x glauca*, and/or *Phalaris arundinacea*.

PREVIOUS IMPACTS: On February 24, 1993, the applicant was issued a Nationwide Permit (26), DA Processing No. 92-986-72, to impact 7.1 acres of Federal wetland for the construction of the RMU-1 facility. The applicant created 7.2 acres of wetland on-site as mitigation for this action. On August 30, 2000, the applicant was issued an Individual Permit, DA Processing No. 2000-01534(0), to impact 0.7 acres of wetland for the construction of a flood storage basin. As mitigation for this action, the applicant created 4.5 acres of wetland on-site. On February 21, 2003, the applicant was issued an Individual Permit, DA Processing No. 2000-01543(3), to place fill in 0.33 acres of Federal wetland for the construction of a stormwater retention basin. As mitigation for this action, the applicant made a \$15,000 donation to the Buffalo Audubon Society (BAS) for the creation of an educational program titled "For the Birds."

Location and details of the above described work are shown on the attached maps and drawings.

Comments or questions pertaining to the work described in this notice should reference the Application Number and be directed to the attention of Kathleen Buckler, who can be contacted at the above address, by calling (716) 879-4303, or by e-mail at: kathleen.a.buckler@usace.army.mil. A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

The following authorization is required for this project:

Water Quality Certification (or waiver thereof) from the New York State Department of Environmental Conservation.

The project permit area, as shown on Sheet 1 of 20, does not appear to be located within an archaeologically sensitive area as identified by the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) or properties listed in, or eligible for listing in, the National Register of Historic Places based on preliminary findings. This notice constitutes initiation of consultation with the New York State Office of Parks, Recreation and Historic Preservation

(NYSOPRHP) per Section 106 of the National Historic Preservation Act. All currently available historic resource information pertaining to this proposed project if any has been provided to the NYSOPRHP. Additional information concerning historic properties should be submitted to the Corps before the end of the comment period of this notice. The Corps will forward that information to the NYSOPRHP for their review.

Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the Corps of Engineers is consulting, under separate cover, with the USFWS to evaluate any potential impacts to the proposed endangered northern long-eared bat (*Myotis septentrionalis*) and to ensure that the proposed activity is not likely to jeopardize their continued existence or result in the destruction or adverse modification of critical habitat.

This notice is promulgated in accordance with Title 33, Code of Federal Regulations, parts 320-330. Any interested party desiring to comment on the work described herein may do so by submitting their comments, in writing, so that they are received no later than 4:30 pm on the expiration date of this notice.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a source of information for the general public, nor a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

The decision to approve or deny this permit request will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood

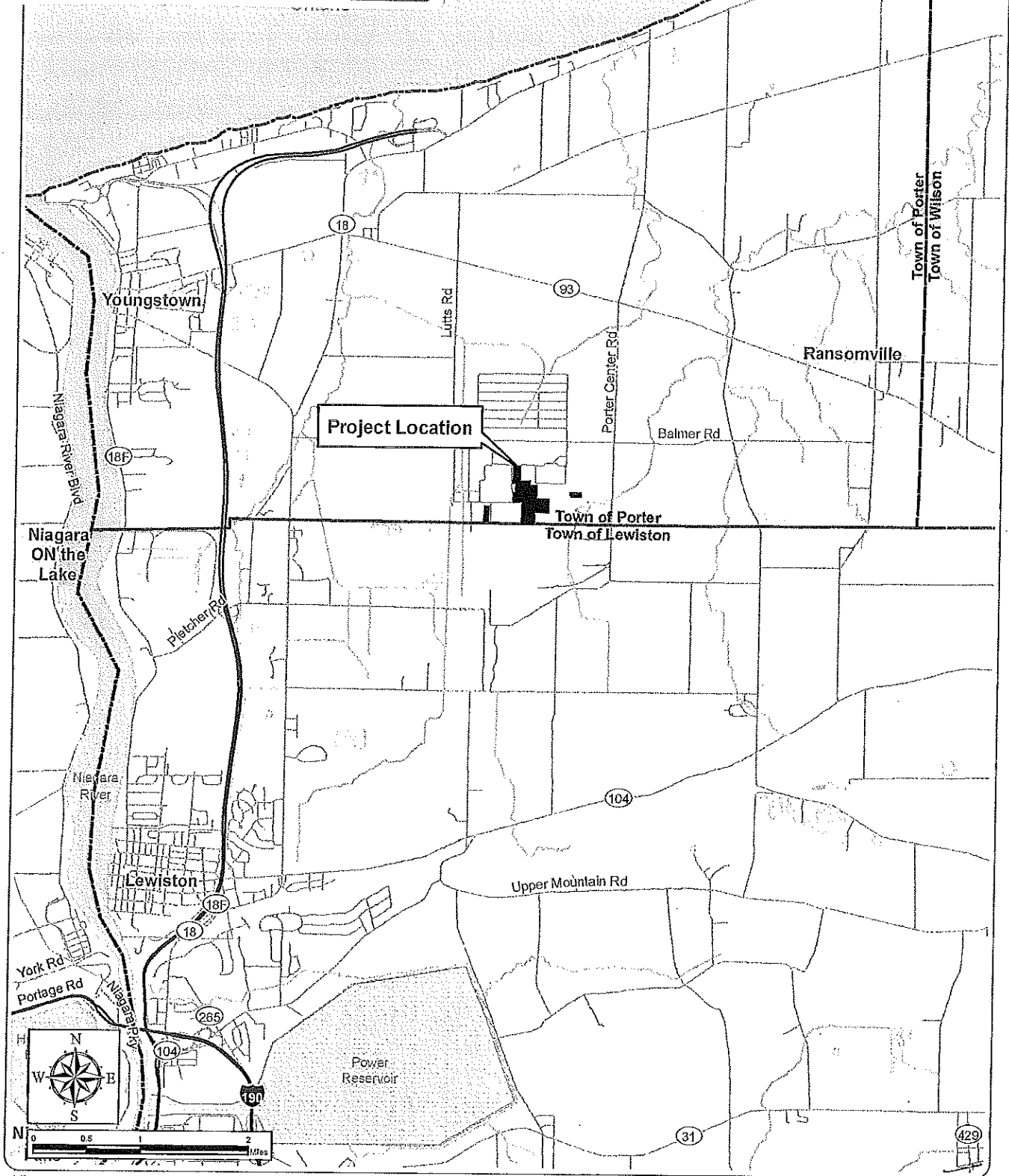
plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

SIGNED

Diane C. Kozlowski
Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.



Residuals Management Unit 2

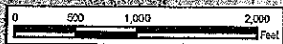
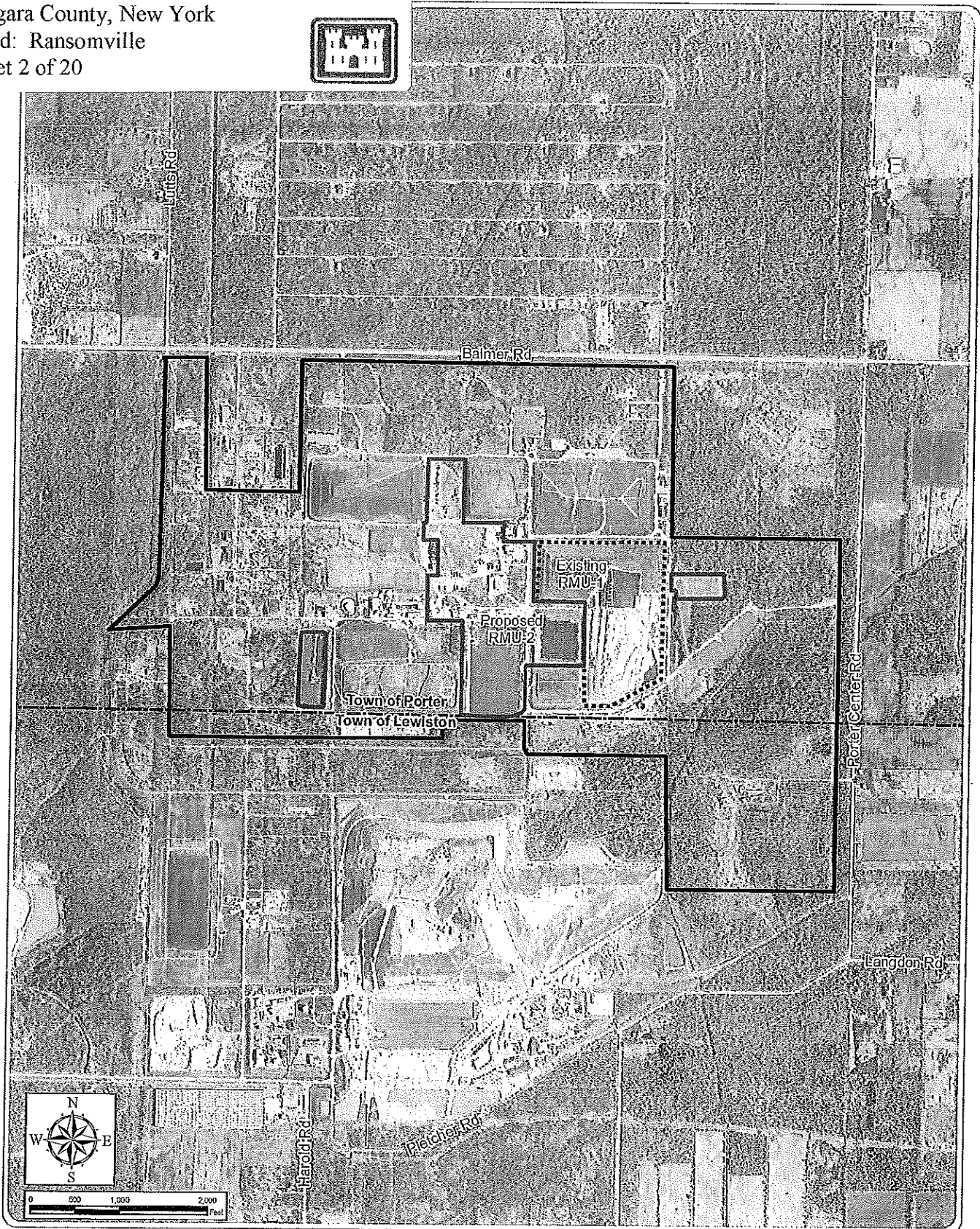
Town of Porter, Niagara County
Joint Application for Permit

Figure 1: Regional Project Location

June 2013

Notes: Base Map: ESRI StreetMap North America, 2008.









Residuals Management Unit 2

Town of Porter, Niagara County
 Joint Application for Permit

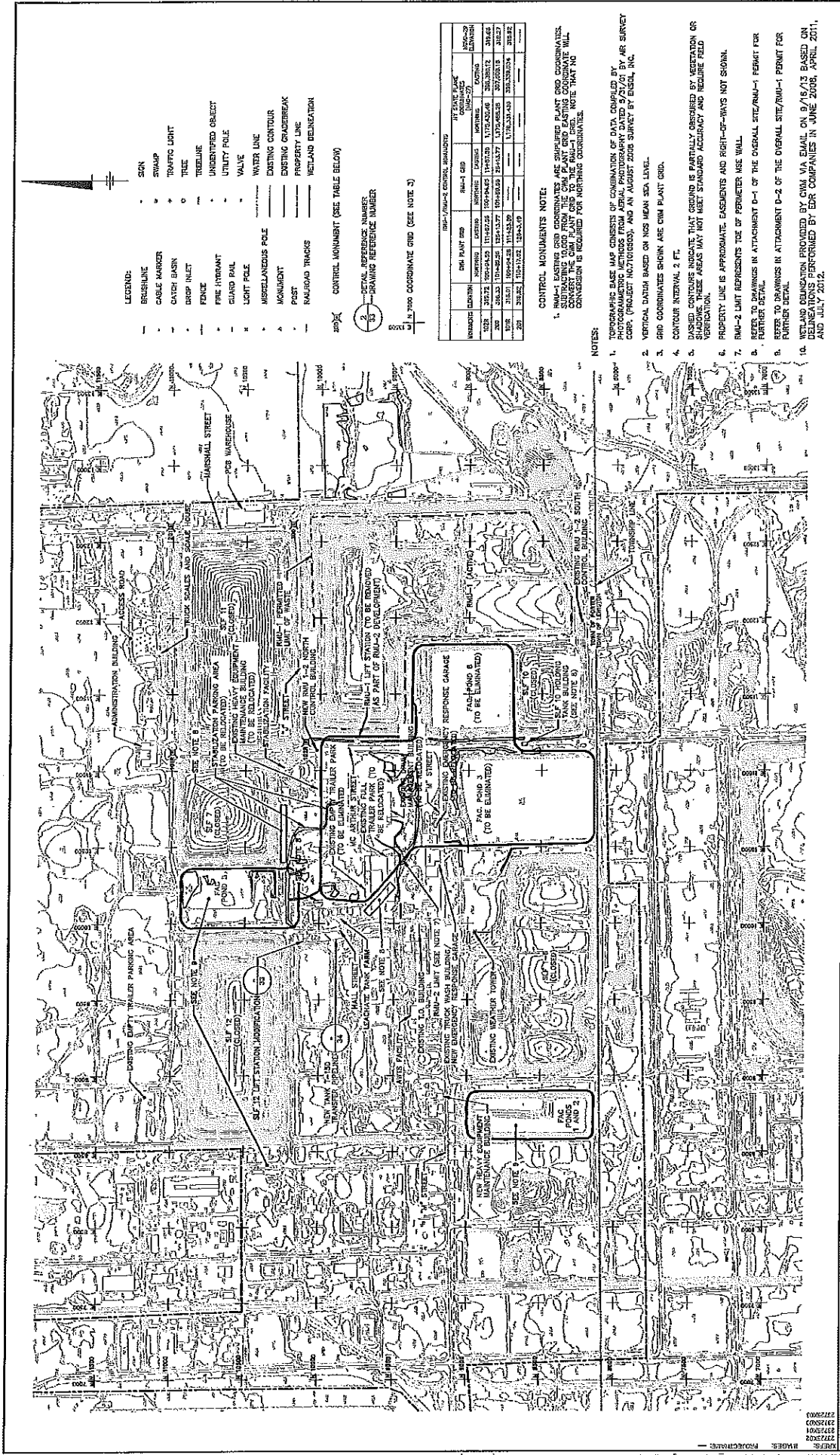
Figure 2: Project Site

July 2013

Notes: Base Map: 1 ft resolution natural color orthophotography, year 2011.

-  Project Site
-  RMU-1 (Existing)
-  Model City Facility
-  Town Boundary





- LEGEND:**
- BRUSHLINE
 - CABLE MARKER
 - CATCH BASIN
 - DROP INLET
 - FENCE
 - FIRE HYDRANT
 - GLAND RAIL
 - LIGHT POLE
 - MISCELLANEOUS POLE
 - MONUMENT
 - POST
 - RAILROAD TRACKS
 - SON
 - SWAMP
 - TRAFFIC LIGHT
 - TREE
 - TREASURE
 - UNIDENTIFIED OBJECT
 - UTILITY POLE
 - VALVE
 - WATER LINE
 - EXISTING CONTOUR
 - EXISTING CHAMBERLAIN
 - PROPERTY LINE
 - WETLAND DEMONSTRATION

CONTROL MONUMENT (SEE TABLE BELOW)

DETAIL REFERENCE NUMBER

DRAWING REFERENCE NUMBER

CONTROL MONUMENT (SEE TABLE BELOW)

MONUMENT IDENTIFICATION	DATE	COORDINATES	DESCRIPTION	
1	10/24/05	11062.25	11062.25	MONUMENT
2	10/24/05	11062.25	11062.25	MONUMENT
3	10/24/05	11062.25	11062.25	MONUMENT
4	10/24/05	11062.25	11062.25	MONUMENT
5	10/24/05	11062.25	11062.25	MONUMENT
6	10/24/05	11062.25	11062.25	MONUMENT
7	10/24/05	11062.25	11062.25	MONUMENT
8	10/24/05	11062.25	11062.25	MONUMENT
9	10/24/05	11062.25	11062.25	MONUMENT
10	10/24/05	11062.25	11062.25	MONUMENT

- CONTROL MONUMENTS NOTE:**
- RMU-1 EASTING GRID COORDINATES ARE SHOWN PLANT GRID COORDINATES. CONVERSION TO UTM EASTING GRID COORDINATES WILL BE REQUIRED FOR NORTHING COORDINATES.
 - RMU-2 EASTING GRID COORDINATES ARE SHOWN PLANT GRID COORDINATES. CONVERSION TO UTM EASTING GRID COORDINATES WILL BE REQUIRED FOR NORTHING COORDINATES.
- NOTES:**
- PROPERTY LINE IS APPROXIMATE. EASEMENTS AND RIGHT-OF-WAYS NOT SHOWN.
 - DASHED CONTOURS INDICATE THAT GROUND IS PARTIALLY OBSERVED BY VEGETATION OR SHADOWS. THESE AREAS MAY NOT MEET STANDARD ACCURACY AND REQUIRE FIELD VERIFICATION.
 - PROPERTY LINE IS APPROXIMATE. EASEMENTS AND RIGHT-OF-WAYS NOT SHOWN.
 - CONTOUR INTERVAL 2 FT.
 - VERTICAL DATUM BASED ON MGS MEAN SEA LEVEL.
 - RMU-2 LIMIT REPRESENTS TOE OF PERIMETER USE WALL.
 - REFER TO DRAWINGS IN ATTACHMENT D-2 OF THE OVERALL SITE/PMU-1 PERMIT FOR FURTHER DETAIL.
 - REFER TO DRAWINGS IN ATTACHMENT D-2 OF THE OVERALL SITE/PMU-1 PERMIT FOR FURTHER DETAIL.
 - WETLAND DEMONSTRATION PROVIDED BY CWM VIA EMAIL ON 8/16/12 BASED ON DELINEATIONS PERFORMED BY EDR COMPANIES IN JUNE 2008, APRIL 2011, AND JULY 2012.

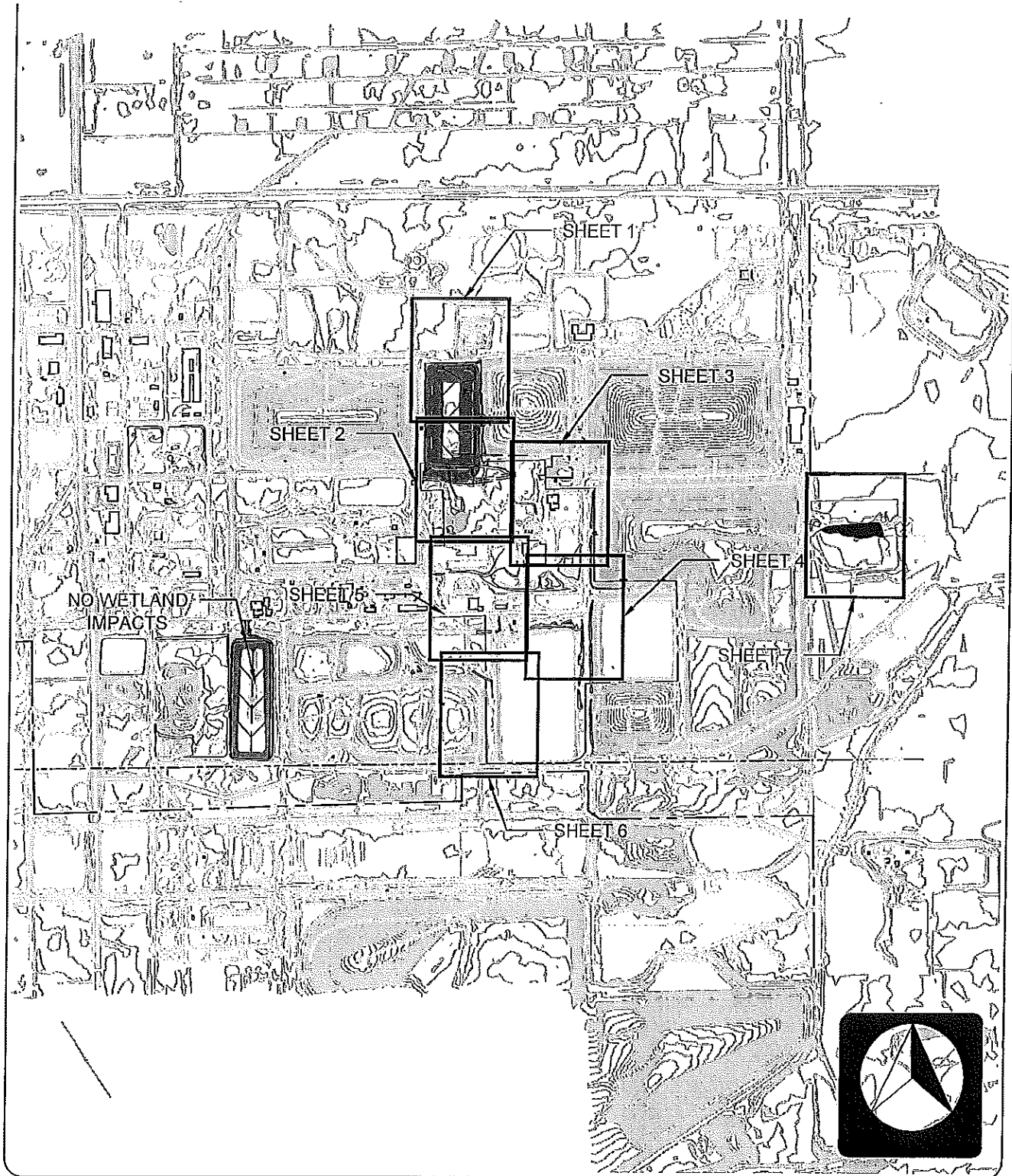
ARCADIS
ARCADIS OF NEW YORK, INC.

PROJECT INFORMATION

PROJECT NAME: RMU-2 SITE PLAN
 PROJECT NUMBER: 2000-01534
 SHEET NUMBER: 3 OF 20

DATE: SEPTEMBER 2013
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DESIGNED BY: [Name]

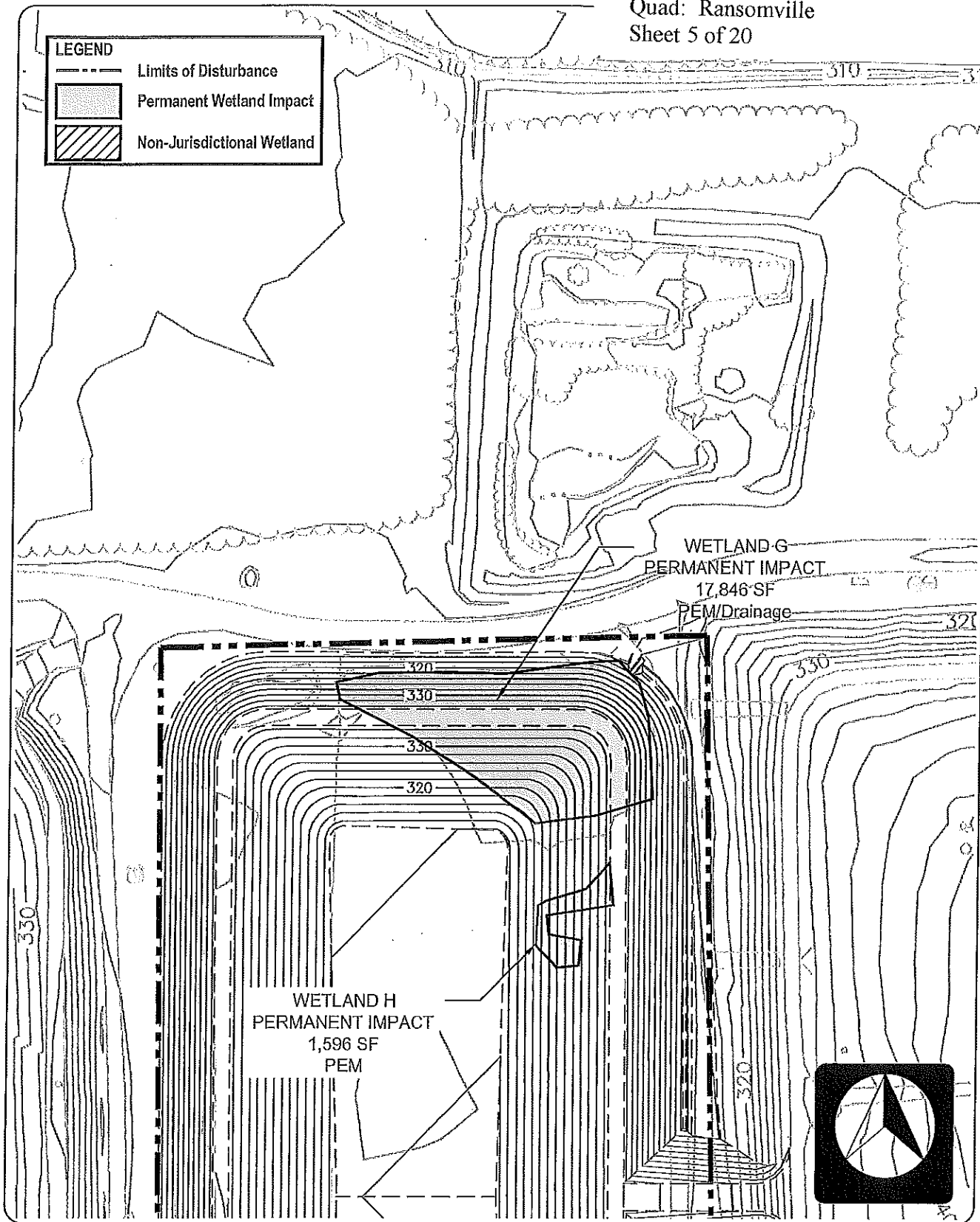
CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
 Sheet 3 of 20



PROJECT TITLE: Residuals Management Unit 2	
DRAWING TITLE: Figure 4: Proposed Wetland/Stream Impacts	
DRAWN BY: EML	CHECKED BY: JP

edr JOB NUMBER: 09022	
DRAWING NUMBER: Sheet Index	
SCALE: 1"=1000'	DATE: June 2013

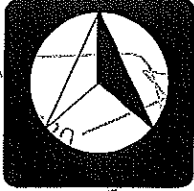
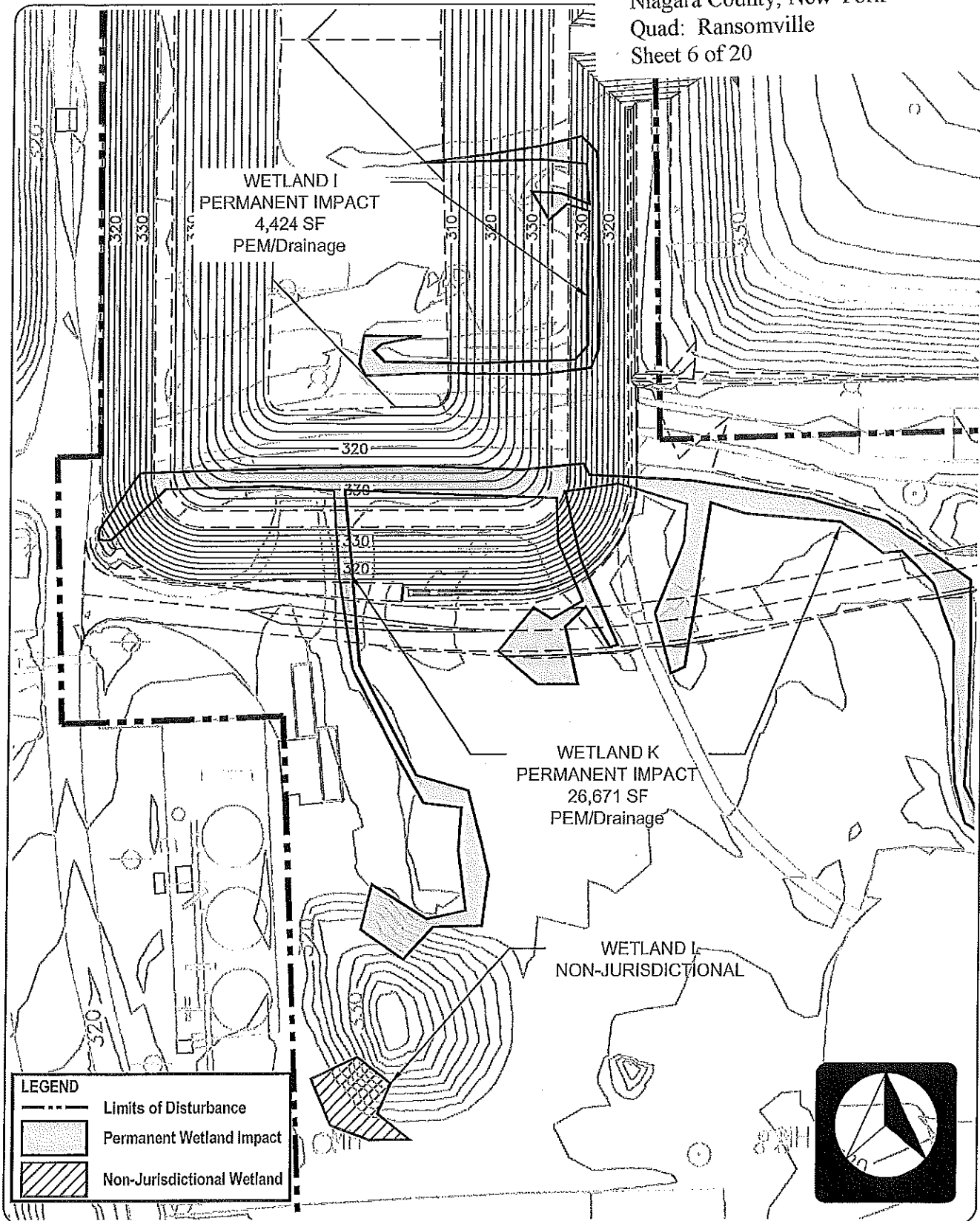




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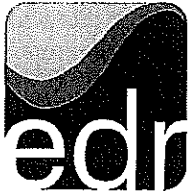
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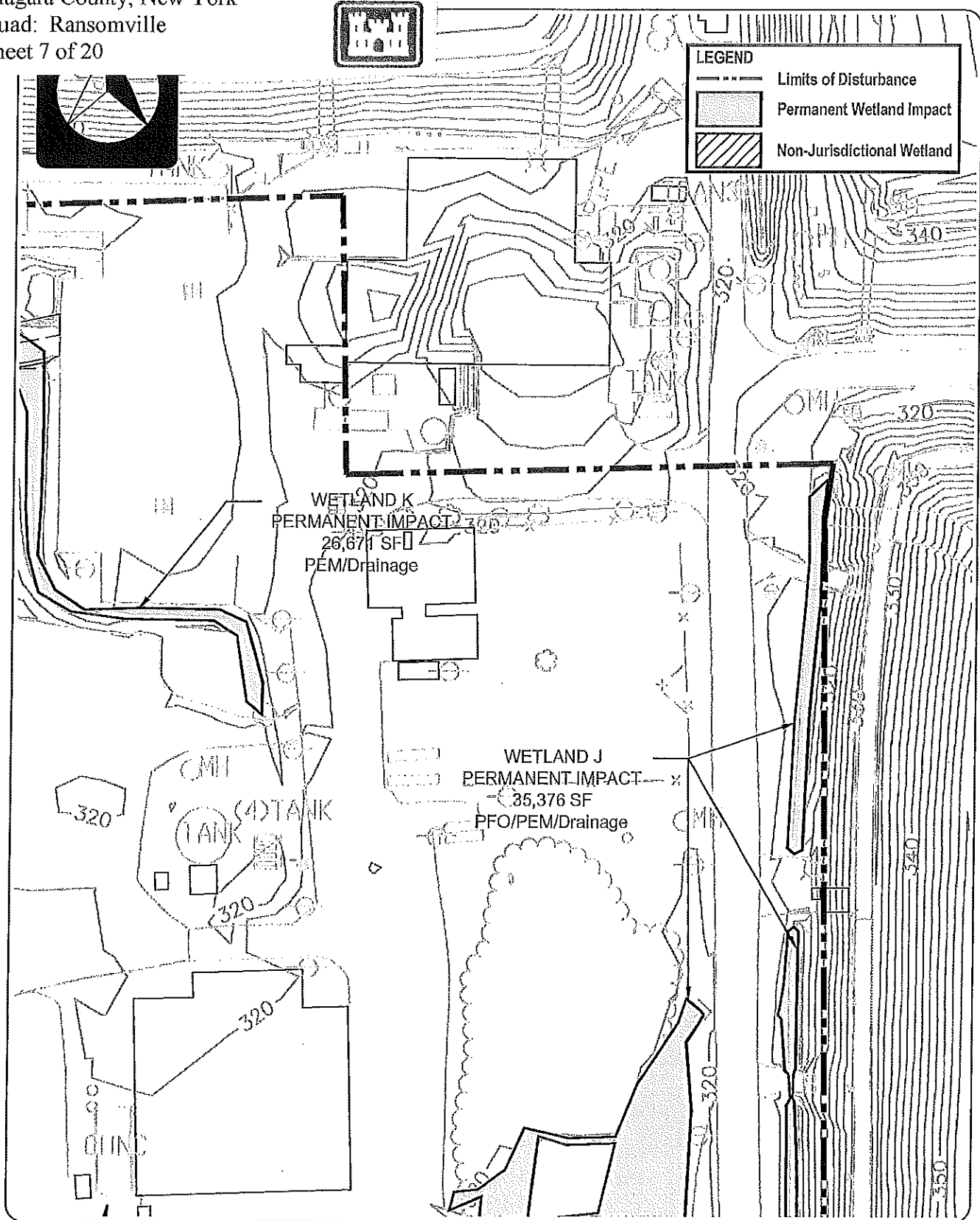




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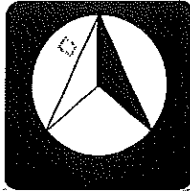
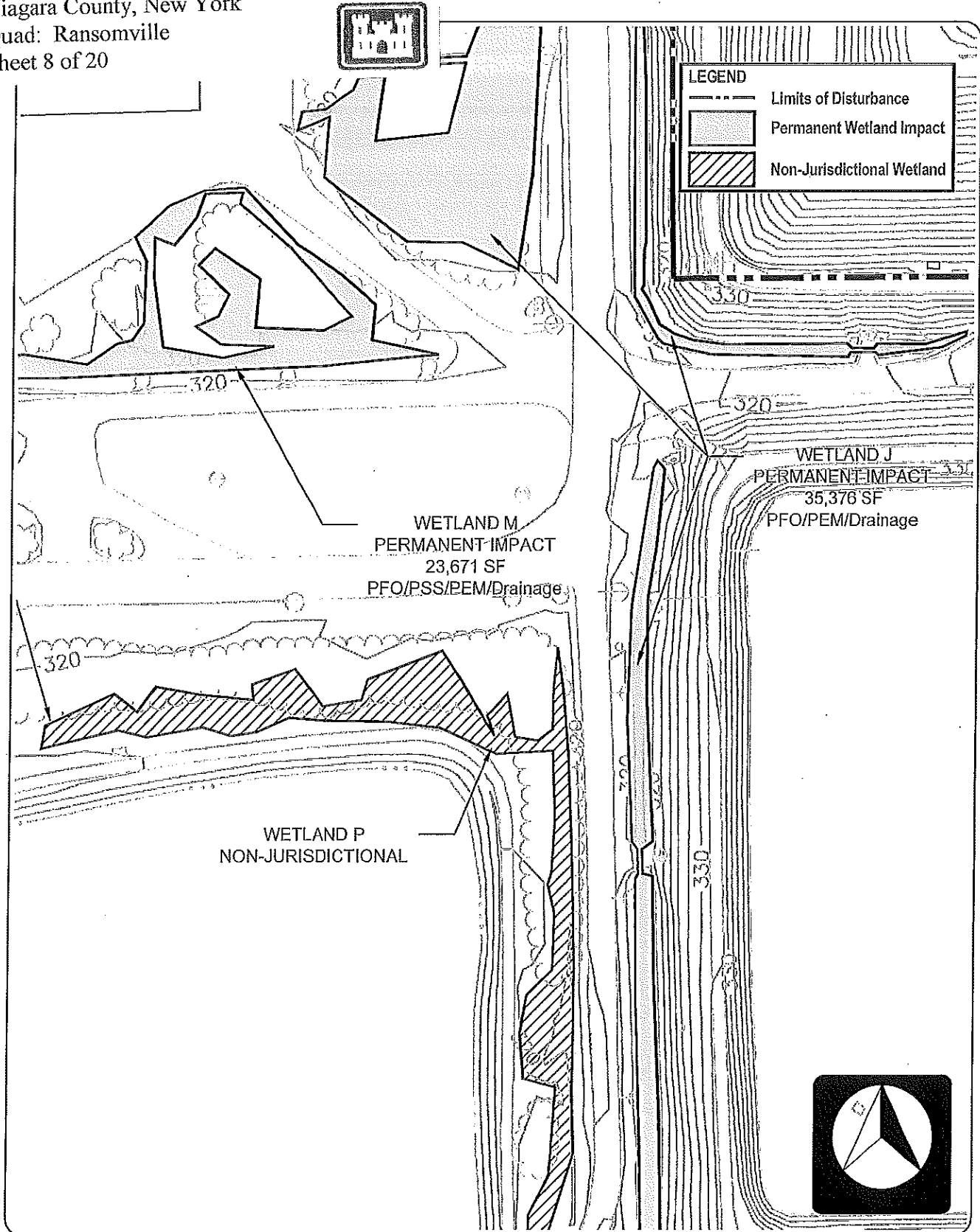




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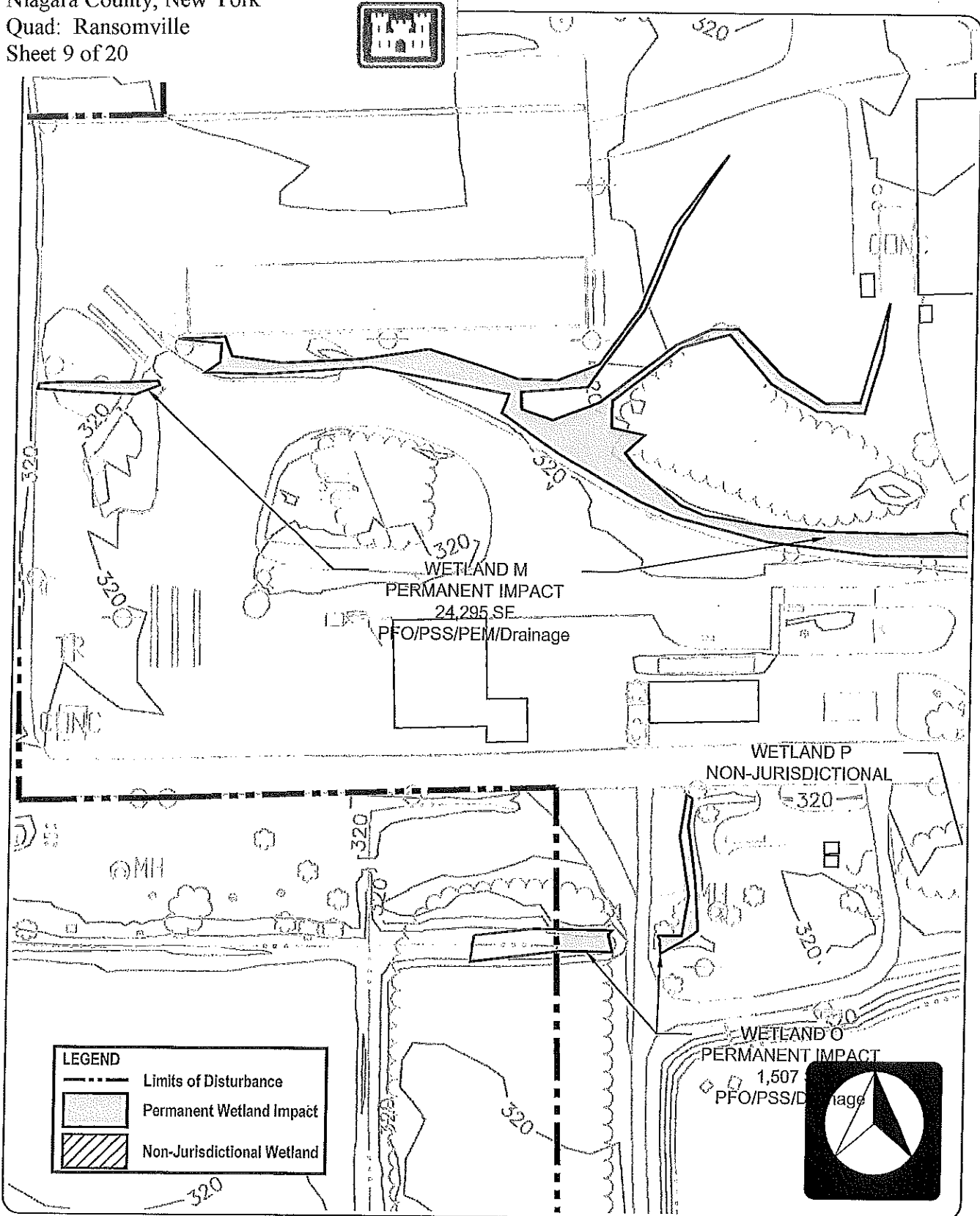




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DRAWING TITLE: Figure 4: Proposed Wetland/Stream Impacts	
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DRAWING NUMBER: Sheet 4	
SCALE: 1"=1000'	DATE: June 2013

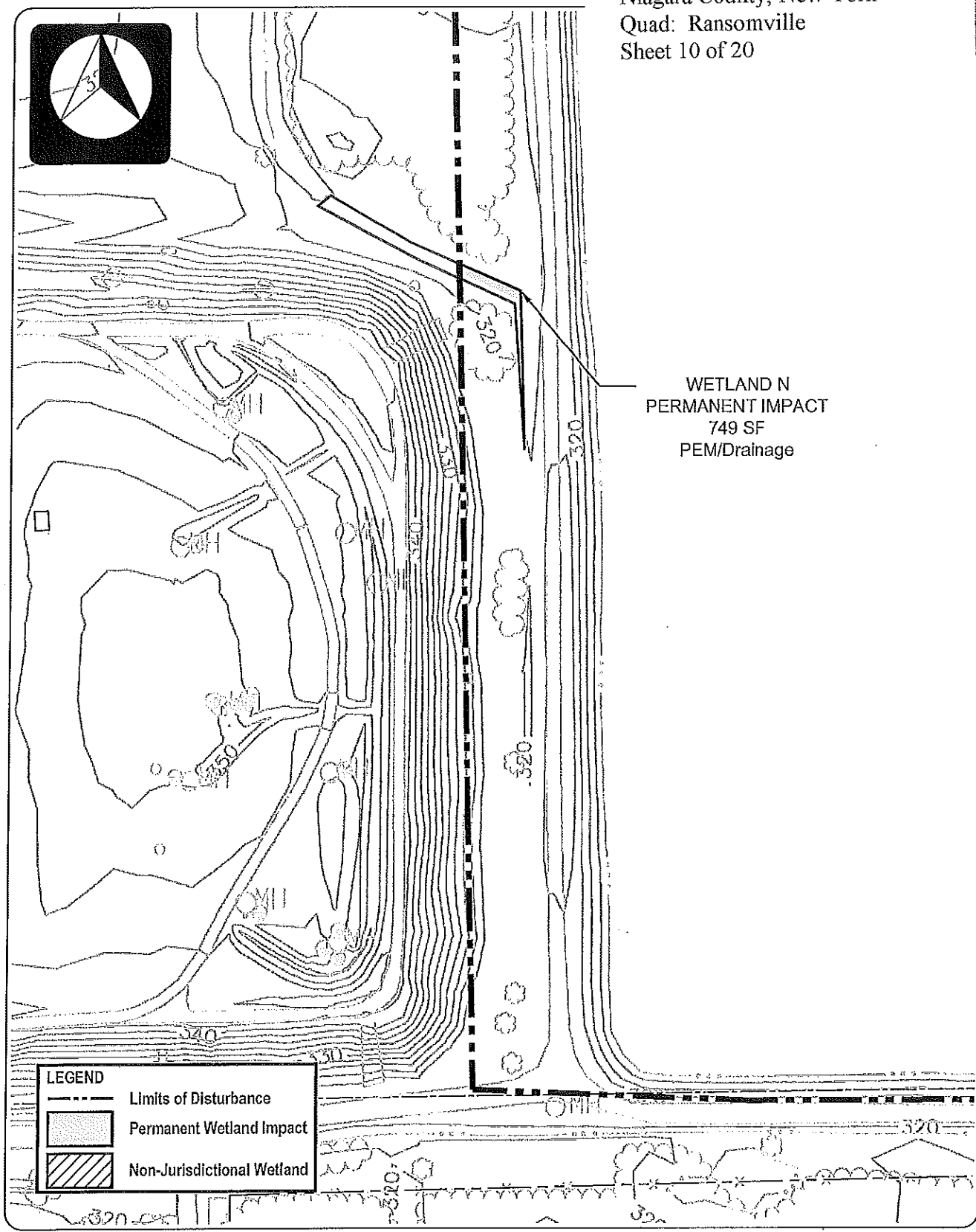




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DRAWING TITLE: Figure 4: Proposed Wetland/Stream Impacts	
DRAWN BY: EML	CHECKED BY: JP

edr JOB NUMBER: 09022	
DRAWING NUMBER: Sheet 5	
SCALE: 1"=100'	DATE: June 2013

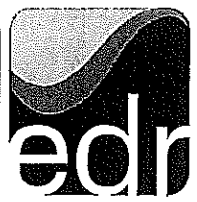


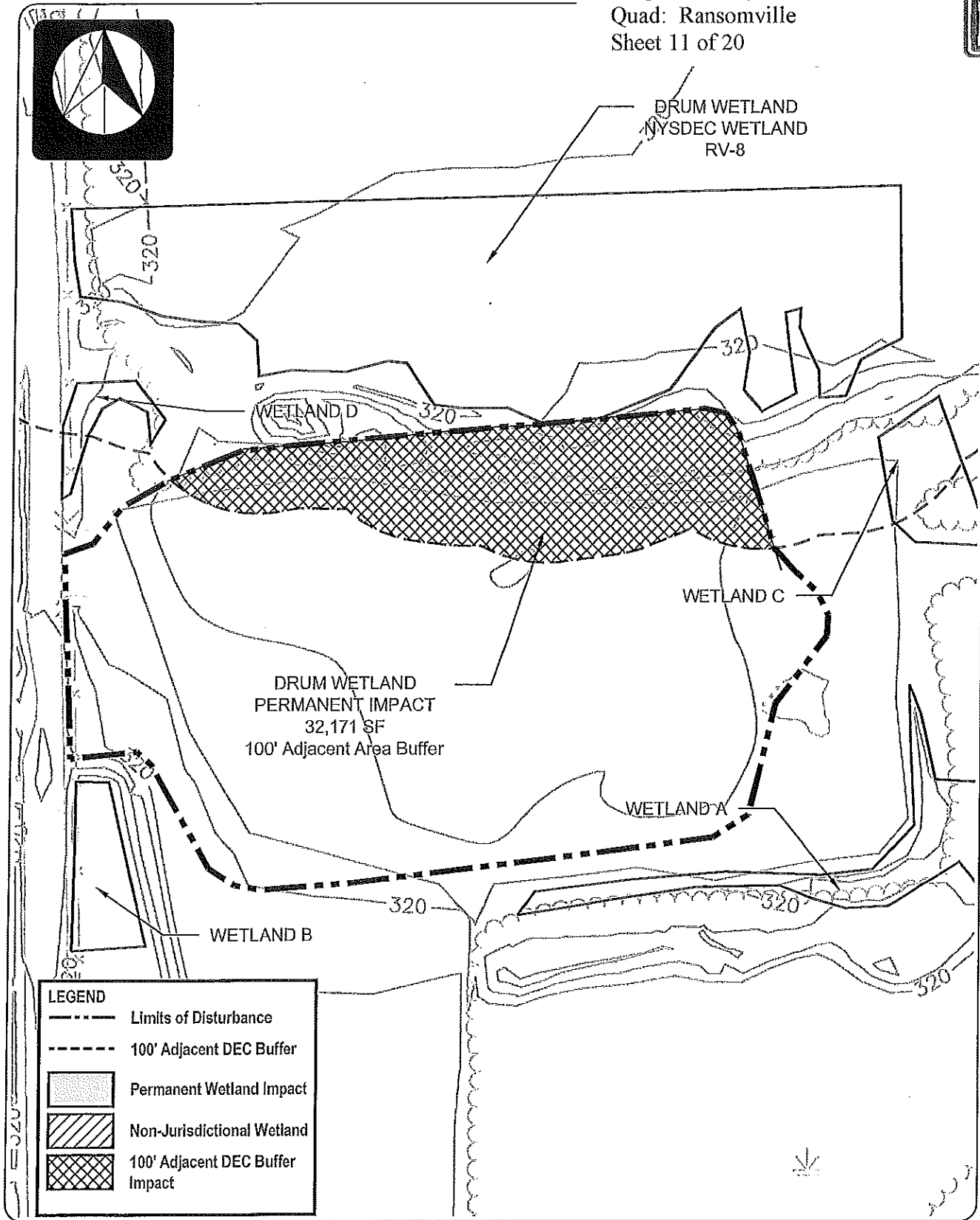


LEGEND	
	Limits of Disturbance
	Permanent Wetland Impact
	Non-Jurisdictional Wetland

PROJECT TITLE: Residuals Management Unit 2	
DRAWING TITLE: Figure 4: Proposed Wetland/Stream Impacts	
DRAWN BY: EML	CHECKED BY: JP

edr JOB NUMBER: 09022	
DRAWING NUMBER: Sheet 6	
SCALE: 1"=100'	DATE: June 2013

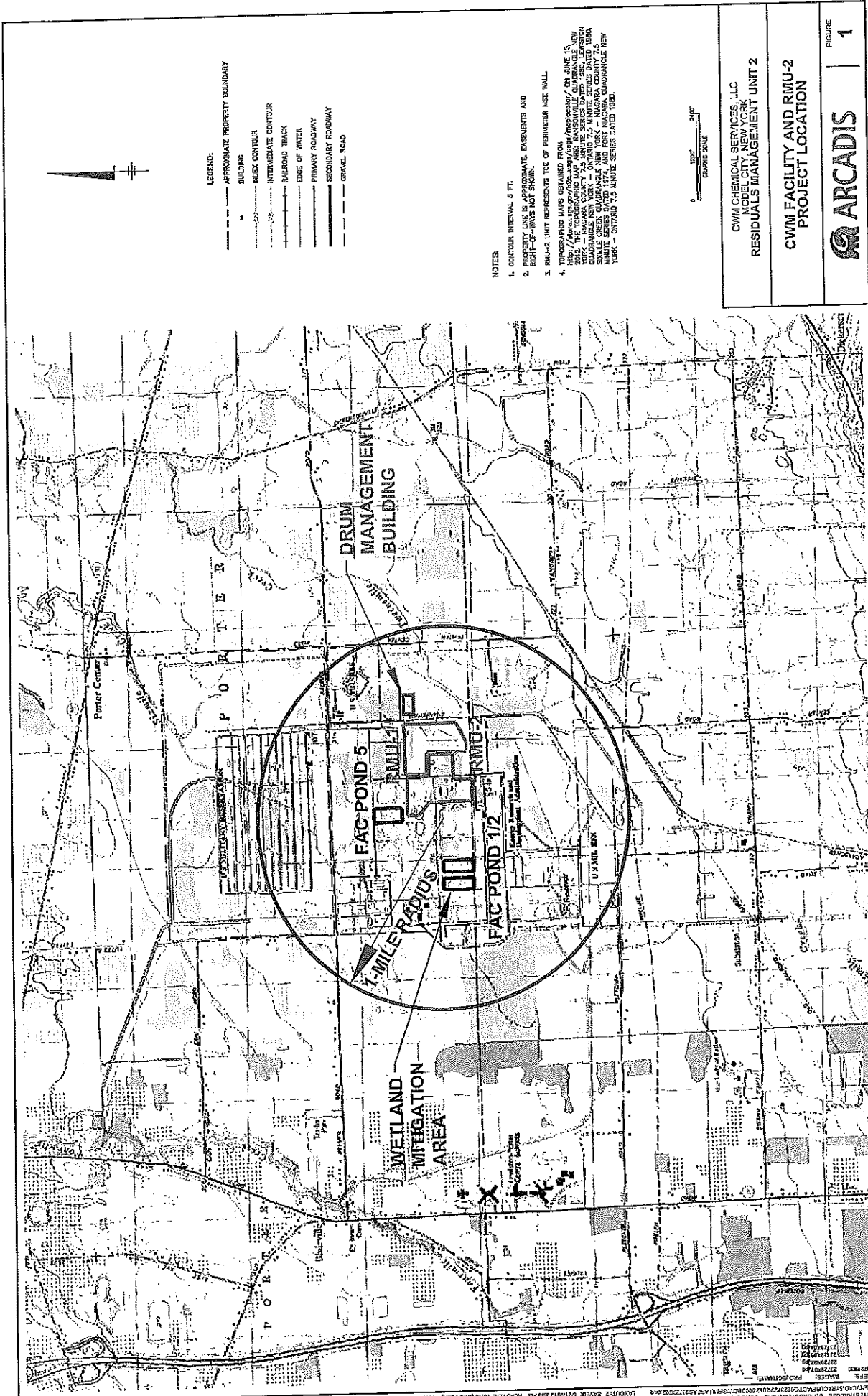




PROJECT TITLE: Residuals Management Unit 2	
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DRAWING NUMBER: Sheet 7	
SCALE: 1"=100'	DATE: June 2013



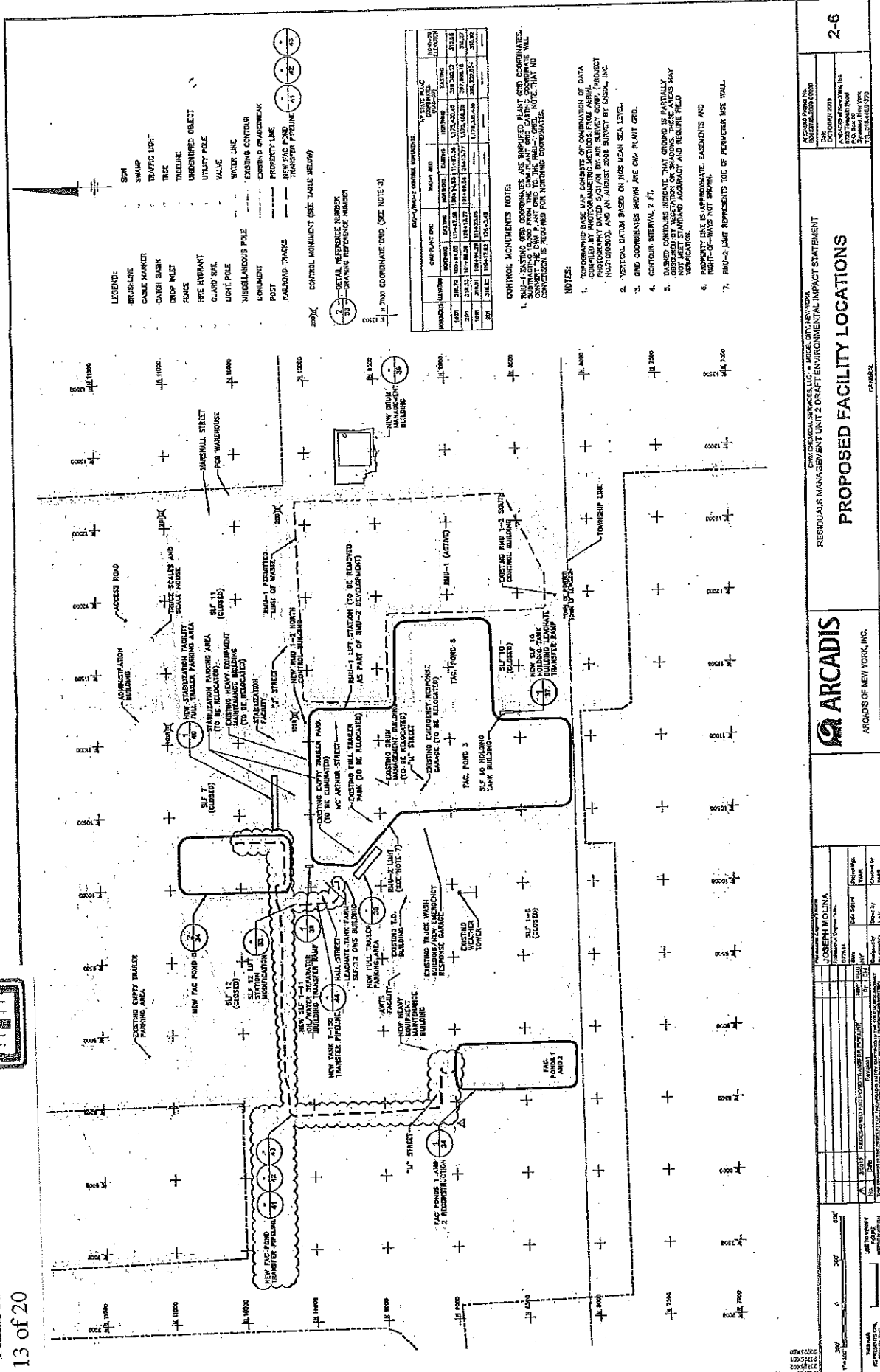


- NOTES:
1. CONTOUR INTERVAL 5 FT.
 2. PROPERTY LINE IS APPROXIMATE. EXHIBENTS AND RIGHT-OF-WAYS NOT SHOWN.
 3. RMU-2 UNIT REPRESENTS TOE OF PERIMETER USE WALL.
 4. TOPOGRAHY MAPS OBTAINED FROM:
 - 1. H&M / Arcadis (09/02/2000) / 10/11/2000
 - 2. THE TOPOGRAHY UNIT, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, QUADRANGLE NEW YORK - 2, ONTARIO 7.5 MINUTE SERIES DATED 1980.
 - 3. SMALL SCALE QUADRANGLE MAPS AND FIRST NAUTICA QUADRANGLE NEW YORK - ONTARIO 7.5 MINUTE SERIES DATED 1980.

CWM CHEMICAL SERVICES, LLC RESIDUALS MANAGEMENT UNIT 2
CWM FACILITY AND RMU-2 PROJECT LOCATION
ARCADIS
FIGURE 1

CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
 Sheet 17 of 20





CITY ENGINEERS: DANIEL J. BROWN, P.E., 1000 W. BROADWAY, SUITE 200, BUFFALO, NY 14202
 COUNTY ENGINEERS: DANIEL J. BROWN, P.E., 1000 W. BROADWAY, SUITE 200, BUFFALO, NY 14202
 STATE ENGINEERS: DANIEL J. BROWN, P.E., 1000 W. BROADWAY, SUITE 200, BUFFALO, NY 14202
 PROFESSIONAL SEAL: DANIEL J. BROWN, P.E., 1000 W. BROADWAY, SUITE 200, BUFFALO, NY 14202

- LEGEND:**
- BRUSHLINE
 - CABLE MARKER
 - CONCRETE BASH
 - CRIP INLET
 - FRIDGE
 - UNDERGROUND OBJECT
 - UTILITY POLE
 - VALVE
 - WATER LINE
 - EXISTING CONTOUR
 - EXISTING EASEMENT
 - PROPERTY LINE
 - NEW FAC FOUNDATION
 - NEW FAC FLOOR
 - NEW FAC ROOF
 - NEW FAC WALL
 - NEW FAC WINDOW
 - NEW FAC DOOR
 - NEW FAC SIGN
 - NEW FAC LIGHT
 - NEW FAC FENCE
 - NEW FAC DRIVE
 - NEW FAC PAVEMENT
 - NEW FAC CURB
 - NEW FAC GROUND
 - NEW FAC PLANT
 - NEW FAC EQUIPMENT
 - NEW FAC UTILITY
 - NEW FAC WATER
 - NEW FAC GAS
 - NEW FAC SEWER
 - NEW FAC RAIN
 - NEW FAC STORM
 - NEW FAC TELEPHONE
 - NEW FAC CABLE
 - NEW FAC FIBER
 - NEW FAC SATELLITE
 - NEW FAC ANTENNA
 - NEW FAC TOWER
 - NEW FAC MAST
 - NEW FAC SIGN
 - NEW FAC LIGHT
 - NEW FAC FENCE
 - NEW FAC DRIVE
 - NEW FAC PAVEMENT
 - NEW FAC CURB
 - NEW FAC GROUND
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 - NEW FAC STORM
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 - NEW FAC CABLE
 - NEW FAC FIBER
 - NEW FAC SATELLITE
 - NEW FAC ANTENNA
 - NEW FAC TOWER
 - NEW FAC MAST

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR PERMIT	08/14/00	JLB	JLB
2	REVISED PER PERMIT	08/14/00	JLB	JLB
3	REVISED PER PERMIT	08/14/00	JLB	JLB
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99	REVISED PER PERMIT	08/14/00	JLB	JLB
100	REVISED PER PERMIT	08/14/00	JLB	JLB

- NOTES:**
- TOPOGRAPHIC BASE MAP CONSISTS OF COMBINATION OF DATA COURTESY OF THE STATE OF NEW YORK AND THE STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION. THE DATA IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
 - VERTICAL DATUM BASED ON MEAN SEA LEVEL.
 - GRID COORDINATES SHOWN ARE ON THE STATE OF NEW YORK PLAT 1000.
 - CONTOUR INTERVAL 2 FT.
 - DASHED CONTOURS INDICATE THAT GRADING IS PARTIALLY COMPLETED. THE GRADING SHALL BE COMPLETED IN ACCORDANCE WITH THE GRADING PLAN AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 - PROPERTY LINE IS APPROXIMATE. EASEMENTS AND RIGHT-OF-WAYS NOT SHOWN.
 - IMU-2 LIMIT REPRESENTS THE USE OF PERMITS FOR THE WALL.

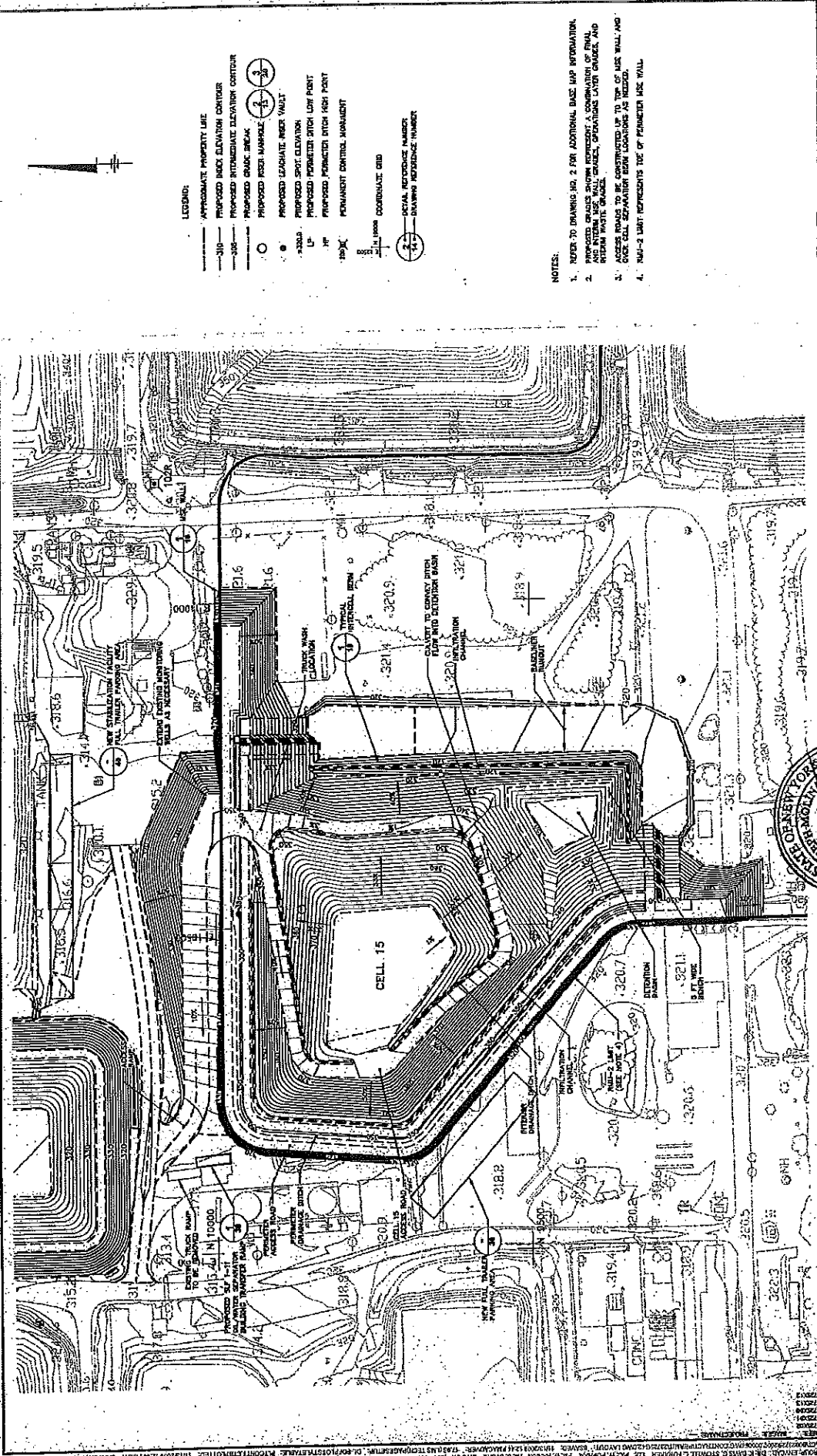
PROPOSED FACILITY LOCATIONS

RESIDUALS MANAGEMENT UNIT 2 DRAFT ENVIRONMENTAL IMPACT STATEMENT

ARCADIS

ARCADIS OF NEW YORK, INC.

2-6



- LEGEND:**
- - - APPROXIMATE PROPERTY LINE
 - - - PROPOSED INDEX ELEVATION CONTOUR
 - - - PROPOSED INTERMEDIATE ELEVATION CONTOUR
 - PROPOSED GRADE BREAK
 - PROPOSED PNEUMATIC WICK VAULT
 - PROPOSED LEACHATE WICK VAULT
 - ▲ PROPOSED SPOT ELEVATION
 - ▽ PROPOSED PERMETER PITCH LOW POINT
 - ↑ PROPOSED PERMETER PITCH HIGH POINT
 - ☒ PERMANENT CONTROL MANAGEMENT
 - 1/4"=1' SCALE
 - 1/2"=1' SCALE
 - 3/4"=1' SCALE
 - 1"=1' SCALE
 - COORDINATE GRID
 - ACTUAL REFERENCE NUMBER
 - DRAWING REFERENCE NUMBER

- NOTES:**
1. REFER TO DRAWING NO. 2 FOR ADDITIONAL BASE MAP INFORMATION.
 2. PROPOSED GRADES SHOWN REPRESENT A COMBINATION OF FINAL RETAIN WALL, GRADE, BRIDGE, SPURWAYS, LATER CHANNEL, AND OTHER DRAINAGE STRUCTURES.
 3. ACCESS ROADS TO BE CONSTRUCTED UP TO TOP OF ASH WALL AND OVER CELL 15 AT VARIOUS POINTS AS INDICATED.
 4. 'RAU-2' UNIT REPRESENTS TOP OF PARAMETER ASH WALL.

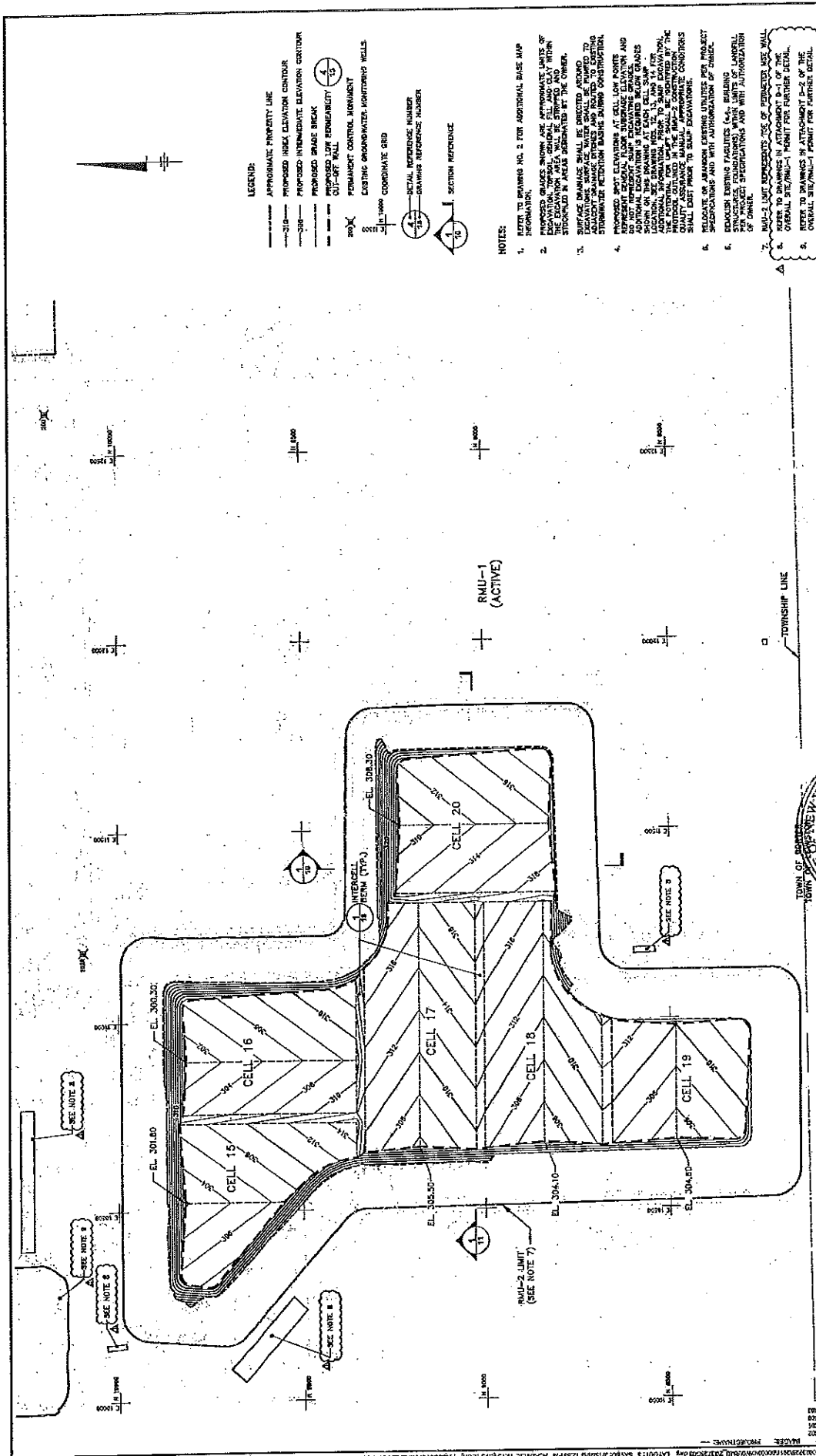
CWM CHEMICAL SERVICES, LLC • 4000 N. AVONDALE, NEW YORK, NY 14240
 RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING
CELL 15 INITIAL FILL PROGRESSION
 GENERAL



NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
1	DESIGNED		JM		
2	DRAWN				
3	CHECKED				
4	IN CHARGE				
5	REVISION				
6	REVISION				

CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
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EXCAVATION GRADES

CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK
RESIDUALS MANAGEMENT UNIT PERMIT DRAWING

ARCADIS

TOWN OF RAMPOW, NEW YORK

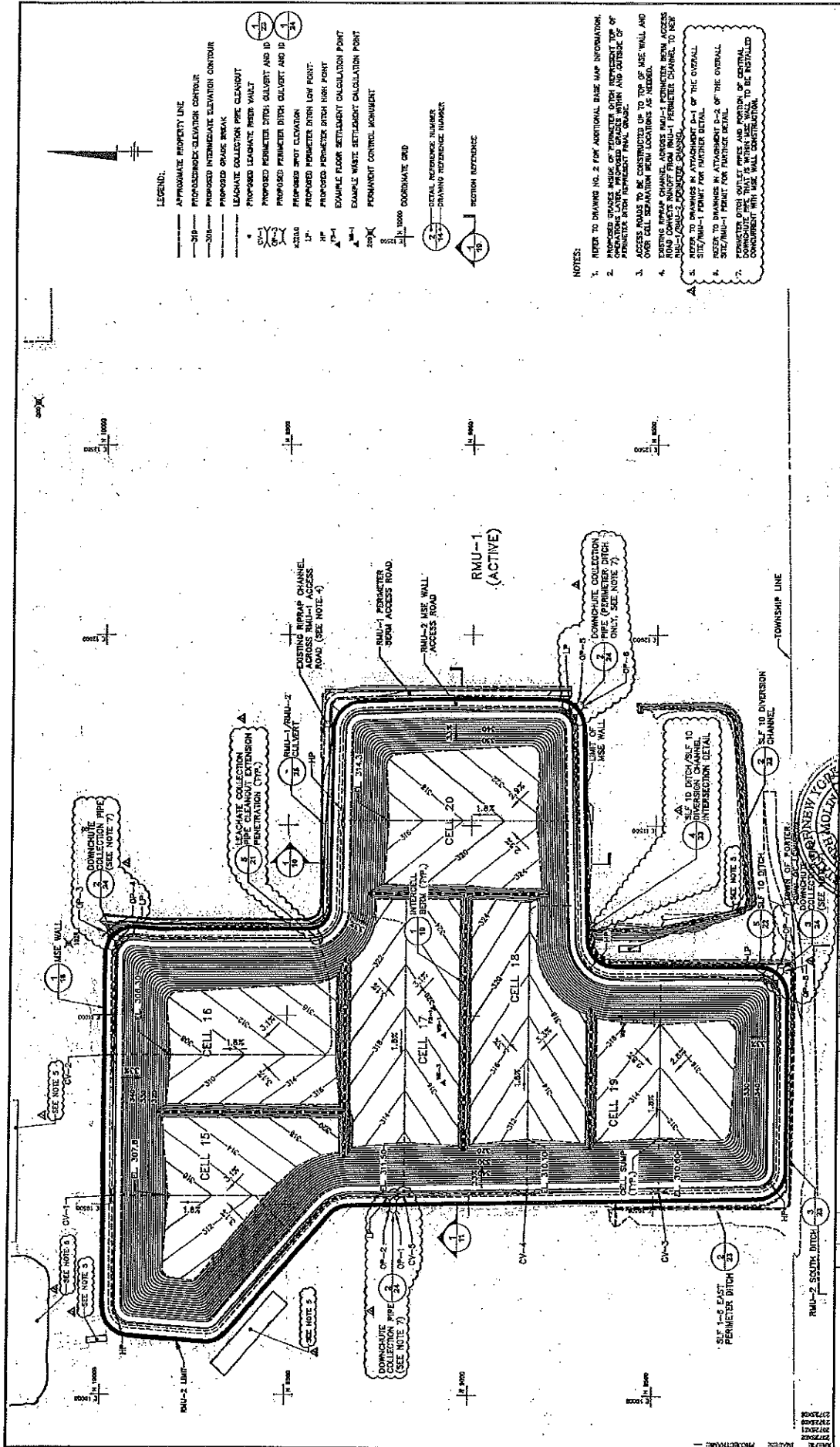
JOSEPH BOJINA
Professional Engineer
No. 1377
Exp. 12/31/2024

DATE: 12/13/23
SCALE: AS SHOWN
PROJECT: CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK
RESIDUALS MANAGEMENT UNIT PERMIT DRAWING

3

CWM Chemical Services, LLC
D/A Processing No. 2000-01534
Niagara County, New York
Quad: Ransomville
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TOP OF OPERATIONS LAYER GRADES

5

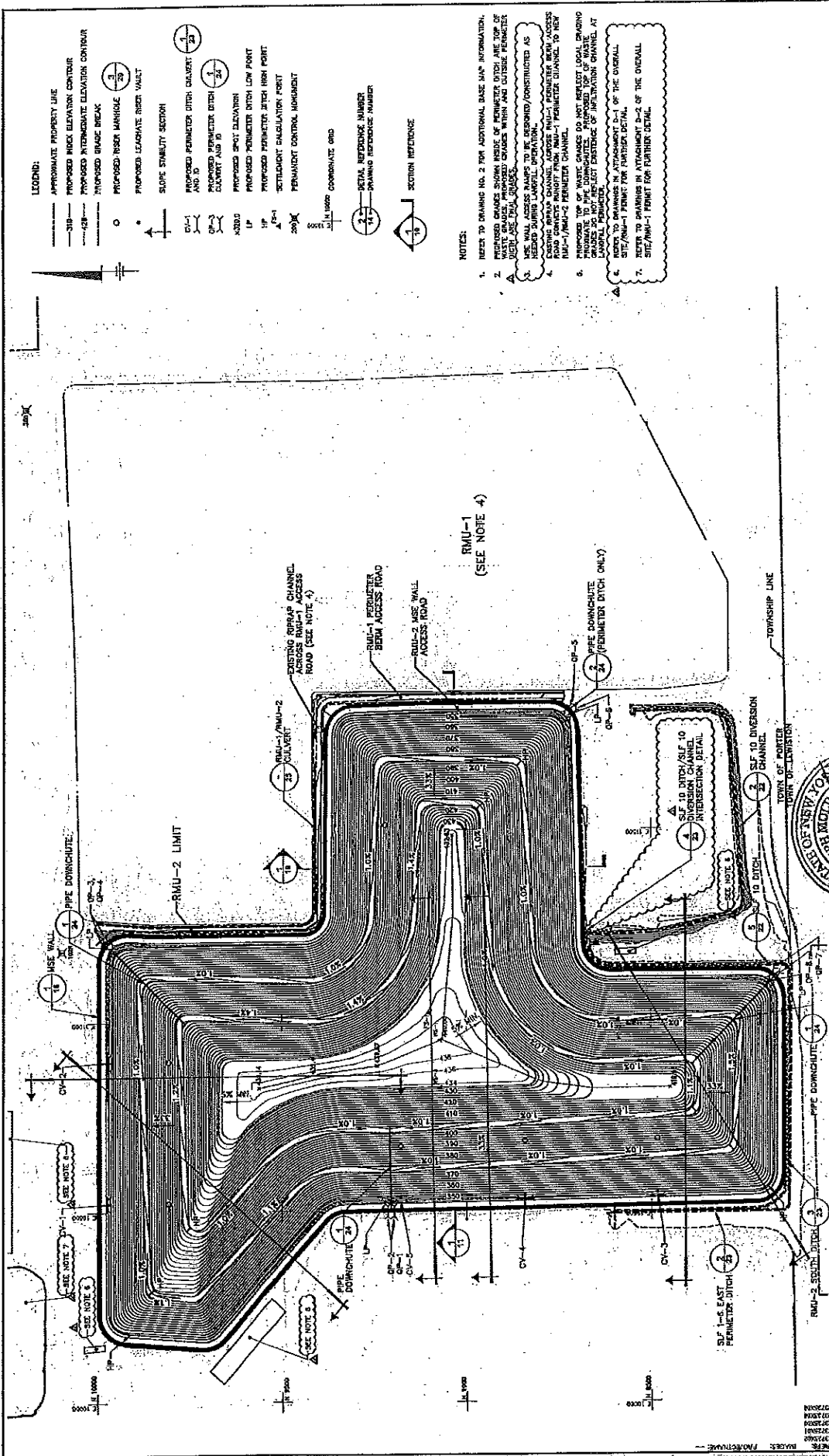
ARCADIS

CONSULTANTS ENGINEERS LLC - MODEL CITY, NEW YORK
RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING

SEAL: JOSEPH MOLINA, PROFESSIONAL ENGINEER, STATE OF NEW YORK, NO. 072688

NO.	DATE	BY	CHK'D	APP'D
1	08/15/19	J.M.	J.M.	J.M.
2	08/15/19	J.M.	J.M.	J.M.
3	08/15/19	J.M.	J.M.	J.M.
4	08/15/19	J.M.	J.M.	J.M.
5	08/15/19	J.M.	J.M.	J.M.

CWM Chemical Services, LLC
D/A Processing No. 2000-01534
Niagara County, New York
Quad: Ransomville
Sheet 16 of 20



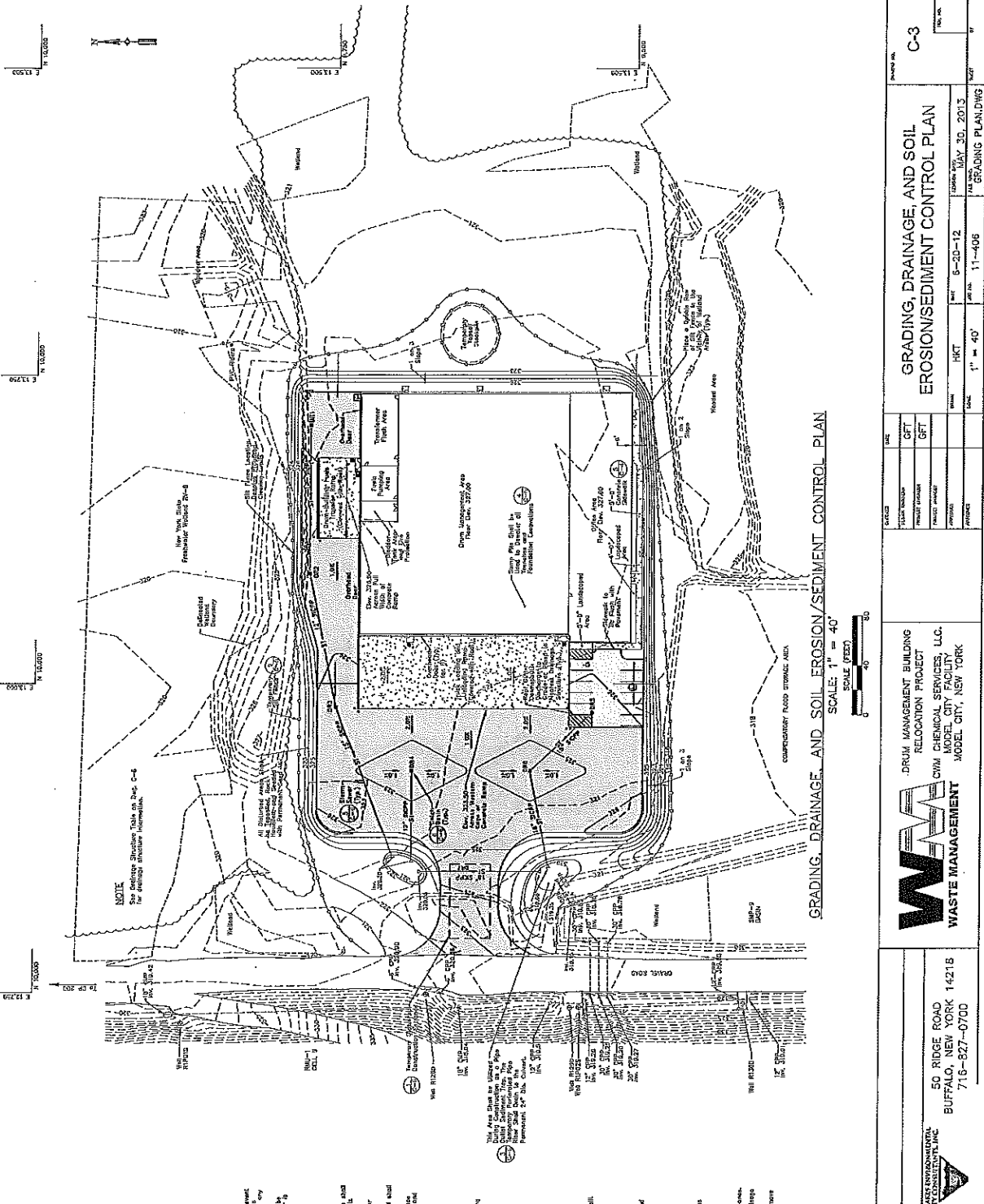
- LEGEND:**
- APPROXIMATE PROPERTY LINE
 - PROPOSED HIGH ELEVATION CONTOUR
 - PROPOSED INTERMEDIATE ELEVATION CONTOUR
 - PROPOSED GRADE BREAK
 - PROPOSED RIBB MARKABLE
 - PROPOSED LEACHATE RISER VAULT
 - SLOPE STABILITY SECTION
 - PROPOSED PERIMETER DITCH CULVERT AND ID
 - PROPOSED PERIMETER DITCH CULVERT AND ID
 - PROPOSED SPOT ELEVATION
 - PROPOSED PERIMETER DITCH LOW POINT
 - PROPOSED PERIMETER DITCH HIGH POINT
 - PROPOSED CALCULATION POINT
 - PERMANENT CONTROL MONUMENT
 - COMPARATIVE GRID
 - DETAIL REFERENCE NUMBER
 - DRAWING REFERENCE NUMBER
 - SECTION REFERENCE

- NOTES:**
1. REFER TO DRAWING NO. 2 FOR ADDITIONAL BASE MAP INFORMATION.
 2. PROPOSED CHANGES SHOWN INSIDE OF PERIMETER DITCH ARE TOP OF WASTE GRADES. PROPOSED CHANGES WITHIN AND OUTSIDE PERIMETER DITCH ARE LOCAL SURFACE GRADES.
 3. ALL NEW CONDUITS TO BE INSTALLED/CONSTRUCTED AS PER LOCAL REGULATIONS.
 4. ALL NEW CONDUITS TO BE INSTALLED/CONSTRUCTED AS PER LOCAL REGULATIONS.
 5. PROPOSED TOP OF WASTE GRADES DO NOT REFLECT LOCAL DRAINING REFERENCES IN ATTACHMENT D-1 OF THE OVERALL SITE/PHASE-1 PERMIT FOR PARTIAL DETAIL.
 6. PROPOSED TOP OF WASTE GRADES DO NOT REFLECT EXISTENCE OF INFILTRATION CHANNEL AT LOCAL POINTS.
 7. REFER TO DRAWINGS IN ATTACHMENT D-2 OF THE OVERALL SITE/PHASE-1 PERMIT FOR PARTIAL DETAIL.

ARCADIS PROFESSIONAL ENGINEERS STATE OF NEW YORK LICENSE NO. 070644		TOP OF VEGETATIVE COVER GRADES	7
CWM CHEMICAL SERVICES, LLC • 4000 CRYSTAL DRIVE NIAGARA FALLS, NY 14304 TEL: 716.285.1000		RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING	SHEET NO. 070644
PROJECT NO. 2000-01534 DRAWING NO. 17 DATE: 12/15/04 DRAWN BY: J. B. BROWN CHECKED BY: J. B. BROWN IN CHARGE: J. B. BROWN	PROJECT NO. 2000-01534 DRAWING NO. 17 DATE: 12/15/04 DRAWN BY: J. B. BROWN CHECKED BY: J. B. BROWN IN CHARGE: J. B. BROWN	PROJECT NO. 2000-01534 DRAWING NO. 17 DATE: 12/15/04 DRAWN BY: J. B. BROWN CHECKED BY: J. B. BROWN IN CHARGE: J. B. BROWN	PROJECT NO. 2000-01534 DRAWING NO. 17 DATE: 12/15/04 DRAWN BY: J. B. BROWN CHECKED BY: J. B. BROWN IN CHARGE: J. B. BROWN

CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
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GRADING, DRAINAGE, AND SOIL EROSION/SEDIMENT CONTROL PLAN
 SCALE: 1" = 40'
 SCALE (FEET)
 0 40 80

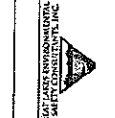
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5-20-12	HKT	REVISION: 5-20-12
11-1-06	HKT	REVISION: 11-1-06
11-1-06	HKT	REVISION: 11-1-06
11-1-06	HKT	REVISION: 11-1-06
11-1-06	HKT	REVISION: 11-1-06

C-3	
NO.	DESCRIPTION
1	11-1-06
2	11-1-06

WASTE MANAGEMENT
 DRUM MANAGEMENT BUILDING
 RELOCATION PROJECT
 CIVIL ENGINEERS, LLC
 MODEL CITY FACILITY,
 MODEL CITY, NEW YORK



50 RIDGE ROAD
 BUFFALO, NEW YORK 14218
 716-827-0700



NO.	DATE	DESCRIPTION
1	11-1-06	11-1-06
2	11-1-06	11-1-06
3	11-1-06	11-1-06
4	11-1-06	11-1-06
5	11-1-06	11-1-06

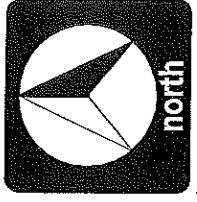
NOTE
 Construction activities may result in the disturbance of existing utility lines and infrastructure located beneath the site. The Contractor shall be responsible for identifying and protecting all such utilities and infrastructure. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate regulatory agencies. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate regulatory agencies. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate regulatory agencies.

SOIL EROSION/SEDIMENT CONTROL NOTES

1. Sedimentation control measures shall be installed on all disturbed areas to prevent erosion and sediment transport. Sedimentation control measures shall include silt fences, sediment traps, and check dams. Sedimentation control measures shall be installed and maintained throughout the duration of the project. Sedimentation control measures shall be installed and maintained throughout the duration of the project. Sedimentation control measures shall be installed and maintained throughout the duration of the project.
2. The Contractor shall be responsible for identifying and protecting all existing utility lines and infrastructure. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate regulatory agencies. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate regulatory agencies.
3. All sedimentation control structures shall be installed on all disturbed areas to prevent erosion and sediment transport. Sedimentation control measures shall include silt fences, sediment traps, and check dams. Sedimentation control measures shall be installed and maintained throughout the duration of the project. Sedimentation control measures shall be installed and maintained throughout the duration of the project.
4. No erosion or sediment control measures may be removed until the disturbed areas are stabilized and no longer susceptible to erosion. Erosion control measures shall be removed only after the disturbed areas are stabilized and no longer susceptible to erosion. Erosion control measures shall be removed only after the disturbed areas are stabilized and no longer susceptible to erosion.
5. All sedimentation control structures shall be installed on all disturbed areas to prevent erosion and sediment transport. Sedimentation control measures shall include silt fences, sediment traps, and check dams. Sedimentation control measures shall be installed and maintained throughout the duration of the project. Sedimentation control measures shall be installed and maintained throughout the duration of the project.

CONSTRUCTION SEQUENCE

1. Perform all work at the locations indicated on the plan, including a double row of silt fences.
2. Install sedimentation control measures.
3. Remove trees and stumps, along with the proposed work areas and disposal of trees, stumps, and branches at the suitable disposal sites.
4. Excavate and backfill the site with the appropriate disposal material, such as topsoil and subsoil, and compact the surface.
5. Construct the building pad with temporary erosion control.
6. Establish exposed gravel areas with temporary seed mix.
7. Install sedimentation control measures on the building.
8. Prepare building pads, compact, foundation, and immediately place exposed areas with topsoil and subsoil.
9. Establish exposed gravel areas and immediately place prepared topsoil and subsoil there.
10. Place gravel, topsoil, seed, and mulch on areas that will not receive above grade structures.
11. Following construction of permanent, remove accumulated sediment from the drainage areas and topsoil, seed, and mulch on remaining disturbed areas.
12. The site shall be stabilized with a healthy ground cover and a healthy ground cover.



WL: 10/2011: 311.06 msl
 WL: 04/2012: 315.05 msl
 WL: 10/2012: 308.93 msl
 WL: 04/2013: 313.80 msl

WETLAND B 0.25 ACRES

WETLAND A 3.05 ACRES

SIMPON
 RETENTION
 POND
 (WETLAND D)
 1.82 ACRES

WETLAND C 0.04 ACRES

WL: 10/2011: 315.93 msl
 WL: 04/2012: 316.27 msl
 WL: 10/2012: 309.63 msl
 WL: 04/2013: 315.78 msl

LEGEND

- VEGETATION TO BE REMOVED
- DELINEATED WETLAND
- PROPOSED MITIGATION AREA
- EXISTING VEGETATION
- OPEN WATER
- PROPOSED CONSERVATION EASEMENT
- SHALLOW GROUNDWATER MONITORING WELL



PROPOSED CONSERVATION EASEMENT
 (15.94 ACRES)



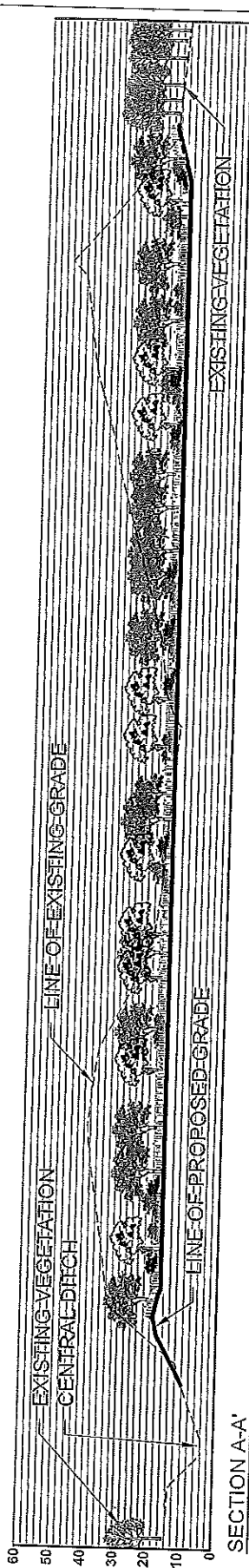
www.edrcompanies.com
 phone: 315.471.0688

edr JOB NUMBER: 09022	
DRAWING NUMBER: L-1	
SCALE: 1" = 50'-0"	DATE: 07/01/2013

PROJECT TITLE: RMU-2 LANDFILL EXPANSION	
DRAWING TITLE: DRAFT WETLAND MITIGATION PLAN	
CHECKED BY: JP	

CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
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SECTION A-A'
 VERTICAL SCALE: 1" = 50'-0"
 HORIZONTAL SCALE: 1" = 100'-0"

FORESTED WETLAND PLANTING

BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
SALIX NIGRA	BLACK WILLOW	2.5"-3" CAL.	BALL&BURLAP	MIN. SPACING 30' O.C.
FRAXINUS PENNSYLVANICA	GREEN ASH	2"-2.5" CAL.	BALL&BURLAP	MIN. SPACING 30' O.C.
CORNUS RACEMOSA	GRAY DOGWOOD	8' HT.	BALL&BURLAP	MIN. SPACING 8' O.C.
ACER RUBRUM	RED MAPLE	2"-2.5" CAL.	BALL&BURLAP	MIN. SPACING 30' O.C.


SEEDING -
 ERNST RETENTION BASIN WILD LIFE MIX
 ERNMX #: ERNMX-127
 SEEDING RATE: 20 lb PER ACRE, OR 1/2 lb PER 1000 FT²
 ERNST CONSERVATION SEEDS
 1-800-873-3321

NORTHEAST WETLAND SHRUB / HERB MIX
 CODE: STCMX-10
 SEEDING RATE: 2 lb PER ACRE @ 5 SEEDS PER SQ. FT.
 SOUTHERN TIER CONSULTING
 (585) 968-3120


PROJECT TITLE: RMU-2 LANDFILL EXPANSION

DRAWING TITLE: DRAFT WETLAND MITIGATION PLAN

CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
 Sheet 20 of 20



edr JOB NUMBER: 09022
 DRAWING NUMBER: L-2
 SCALE: AS NOTED DATE: 07/01/2012
 CHECKED BY: JP



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 phone: 315.471.0688