



Public Notice

Applicant: CWM Chemical
Services LLC

Published: May 16, 2014
Expires: June 16, 2014

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 nonhazardous 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 nonhazardous 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 a 43.5-acre

expansion of the existing CWM Model City Hazardous Waste Management Facility. The proposed 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, upgrade of Fac Pond ½, 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: Outlined 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; however, 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: according to the applicant, 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 Model City Chemical Waste 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. The applicant made a \$15,000 donation to the Buffalo Audubon Society (BAS) for the creation of BAS-Birds of Prey Center as mitigation for this action.

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

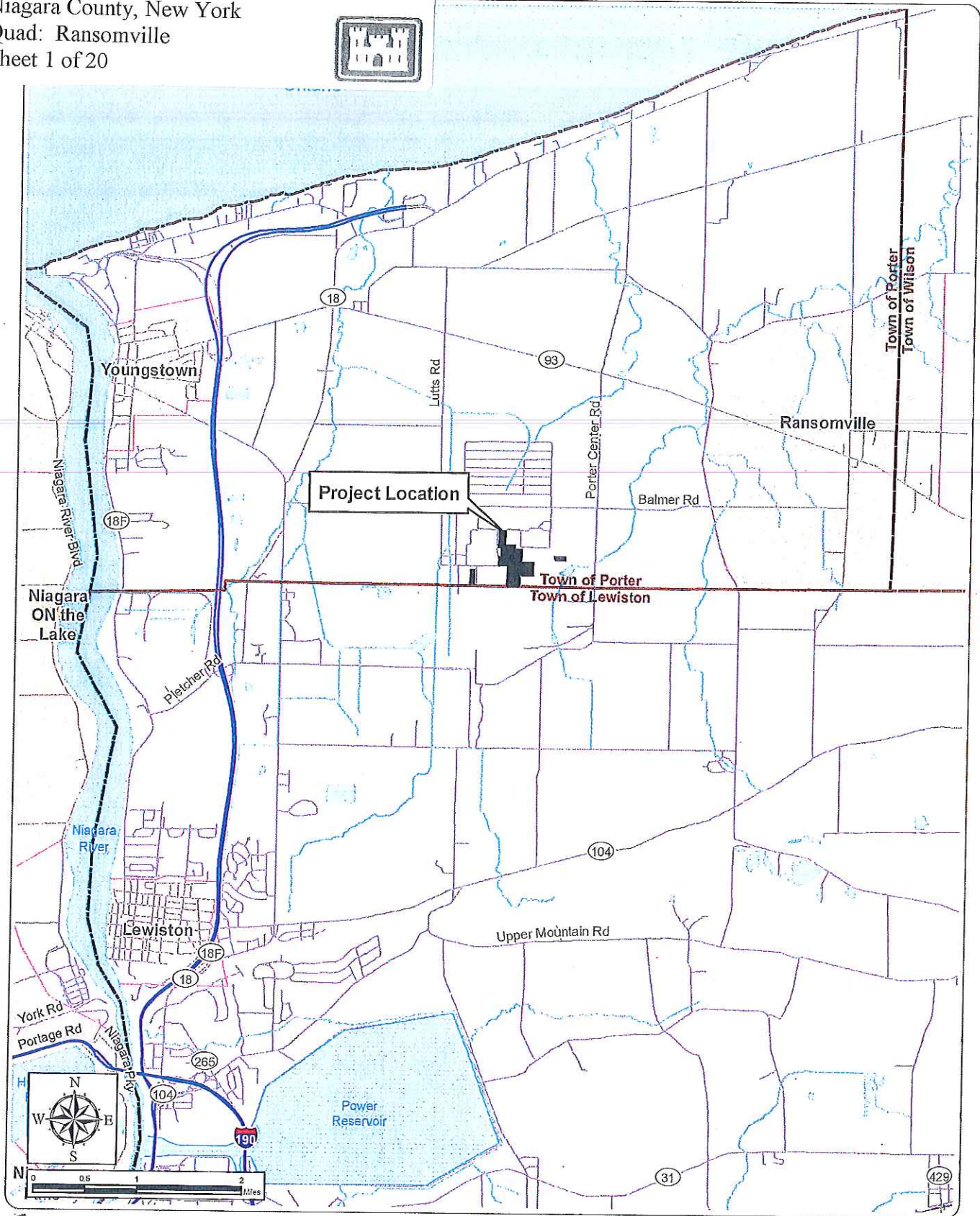
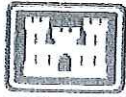
plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

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

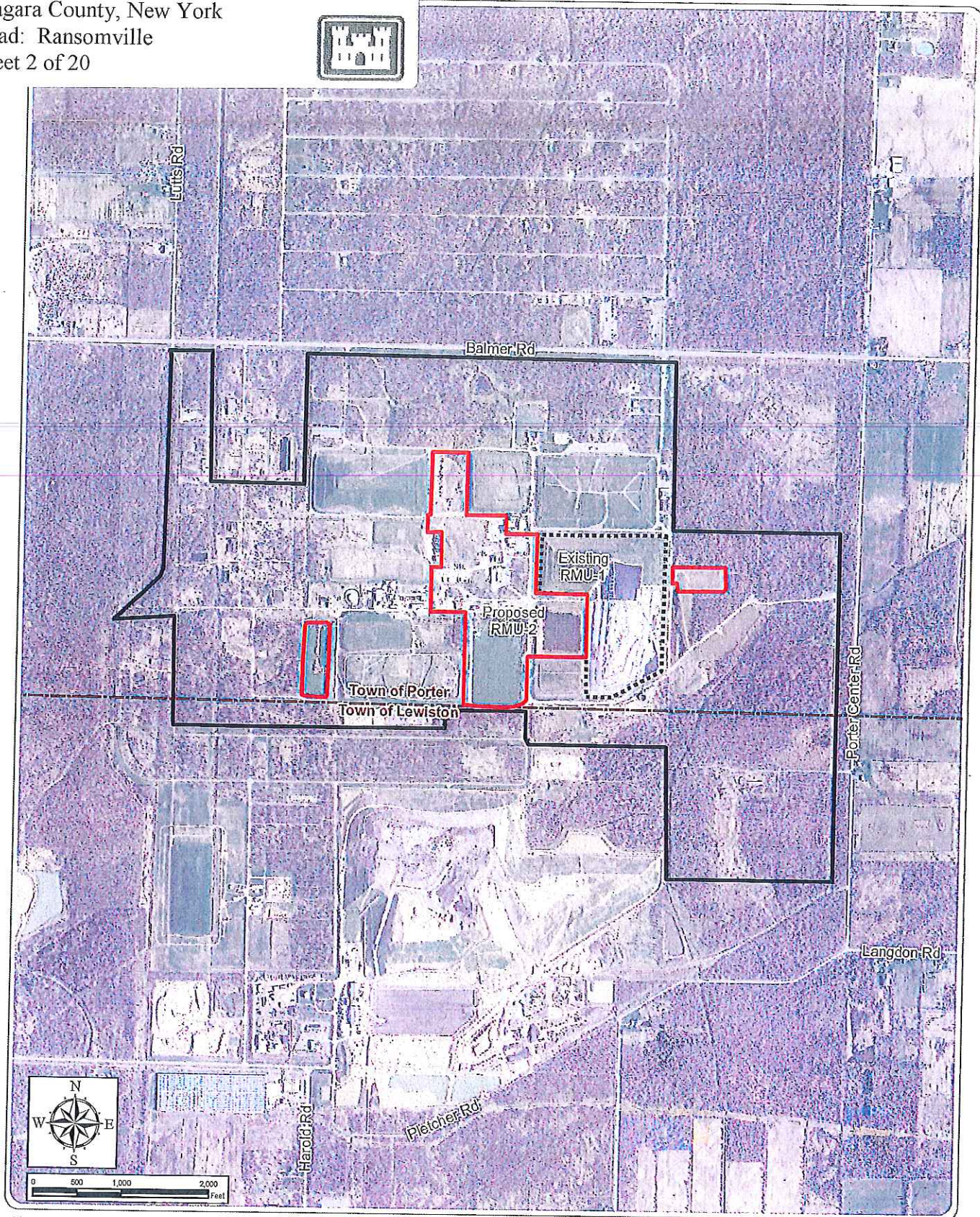
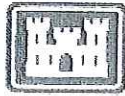
Town of Porter, Niagara County
Joint Application for Permit

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

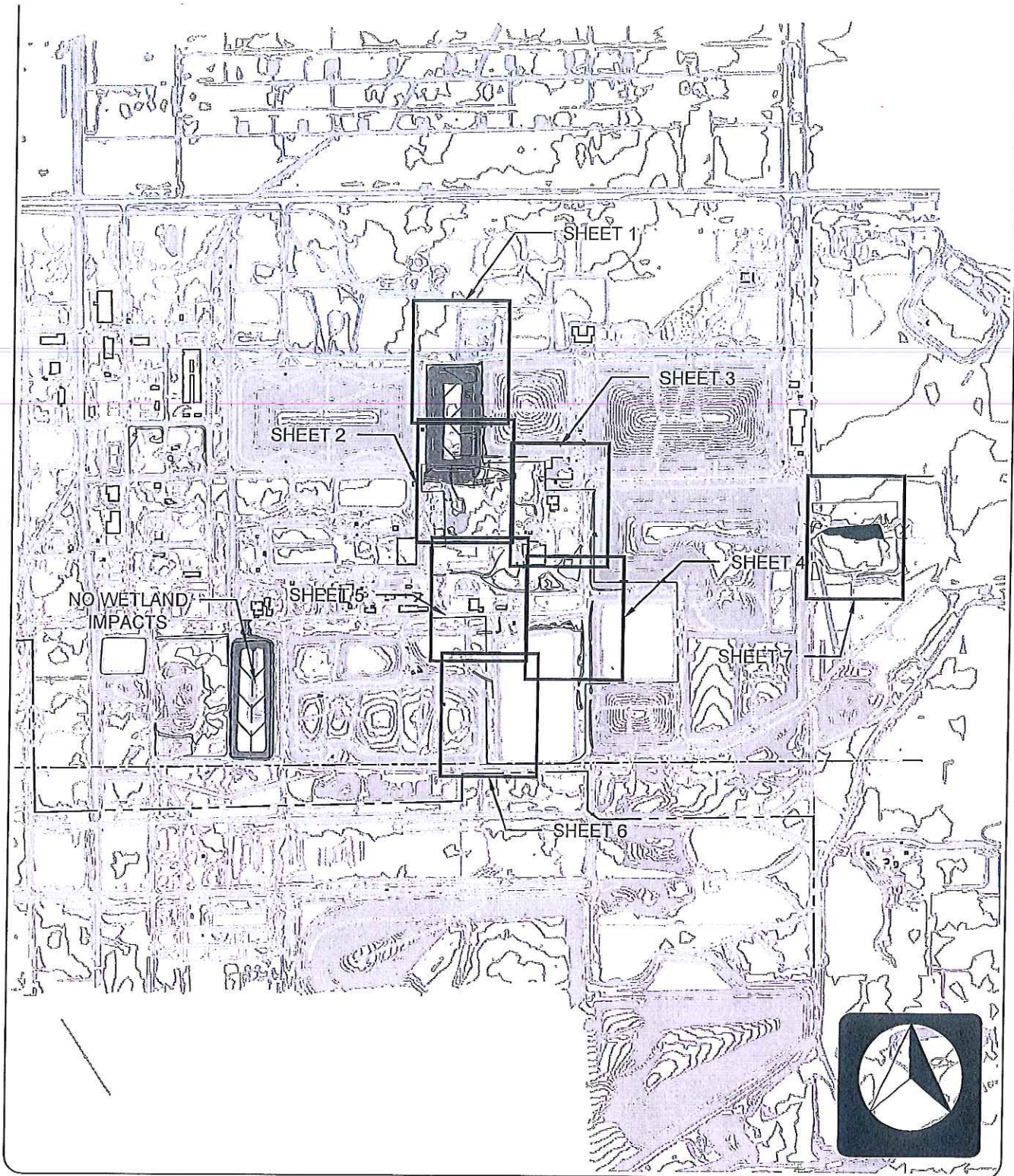
Figure 2: Project Site

July 2013

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

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








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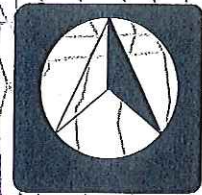
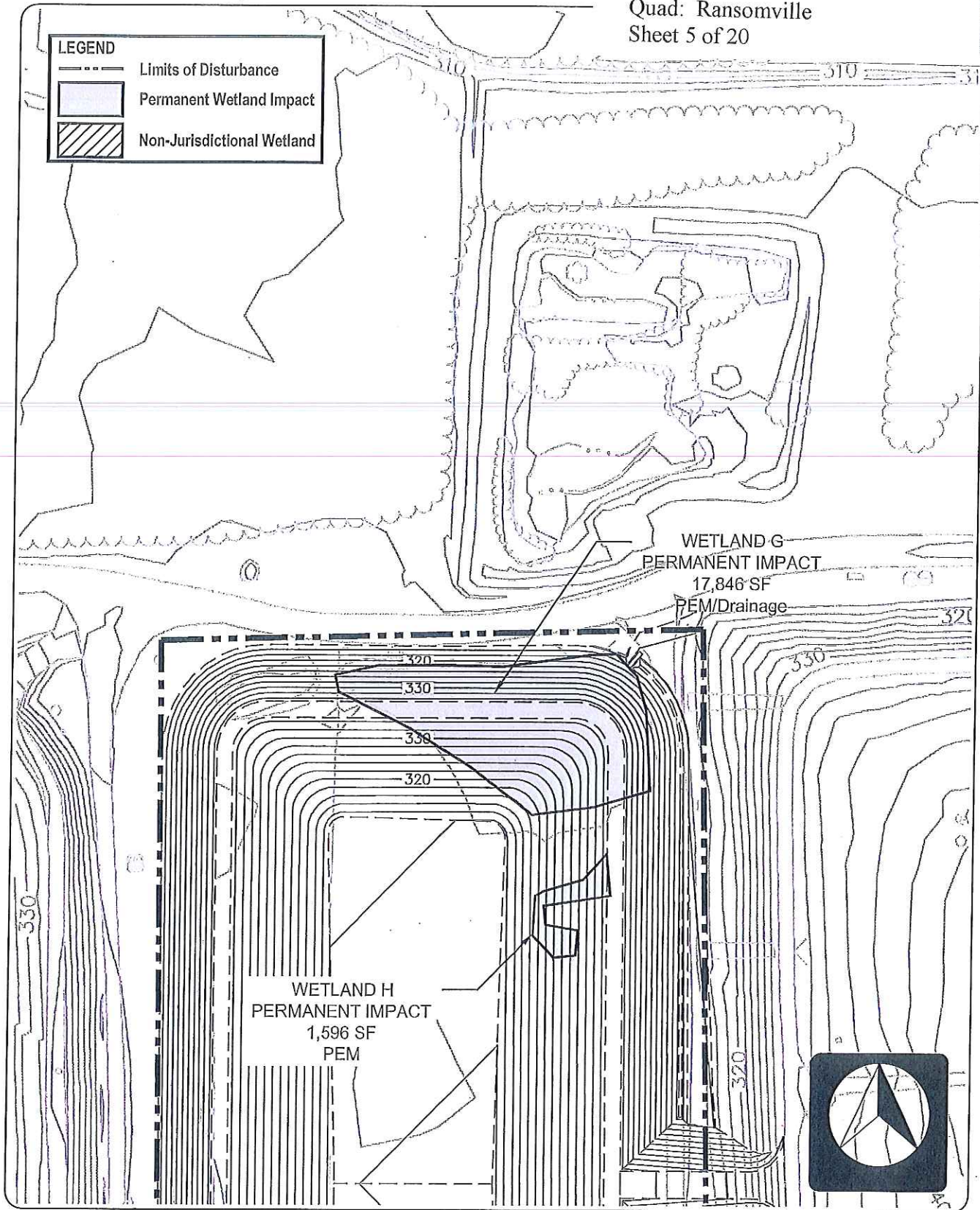
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DRAWING NUMBER: Sheet Index	
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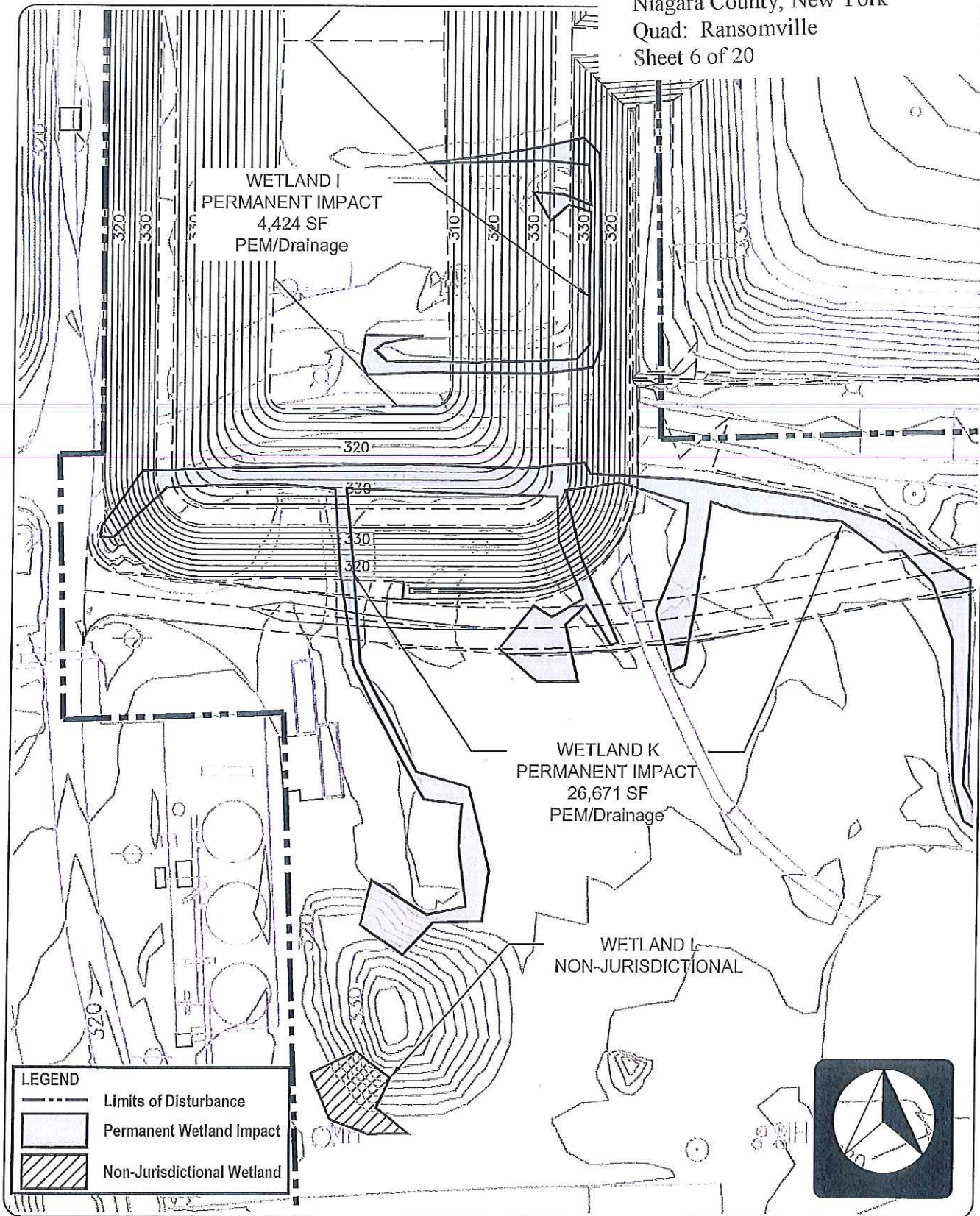
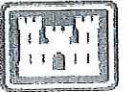
-  Limits of Disturbance
-  Permanent Wetland Impact
-  Non-Jurisdictional Wetland



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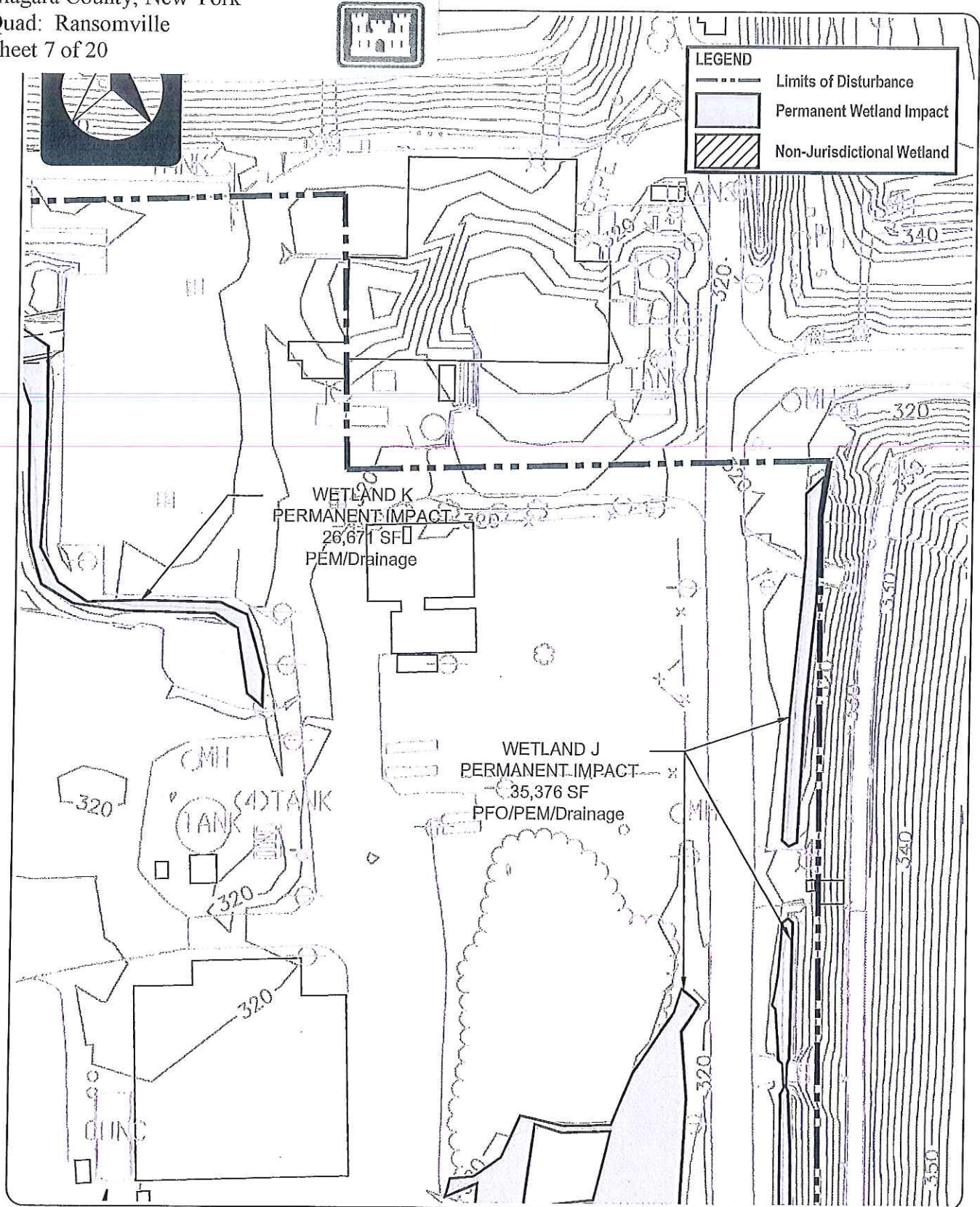




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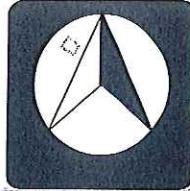
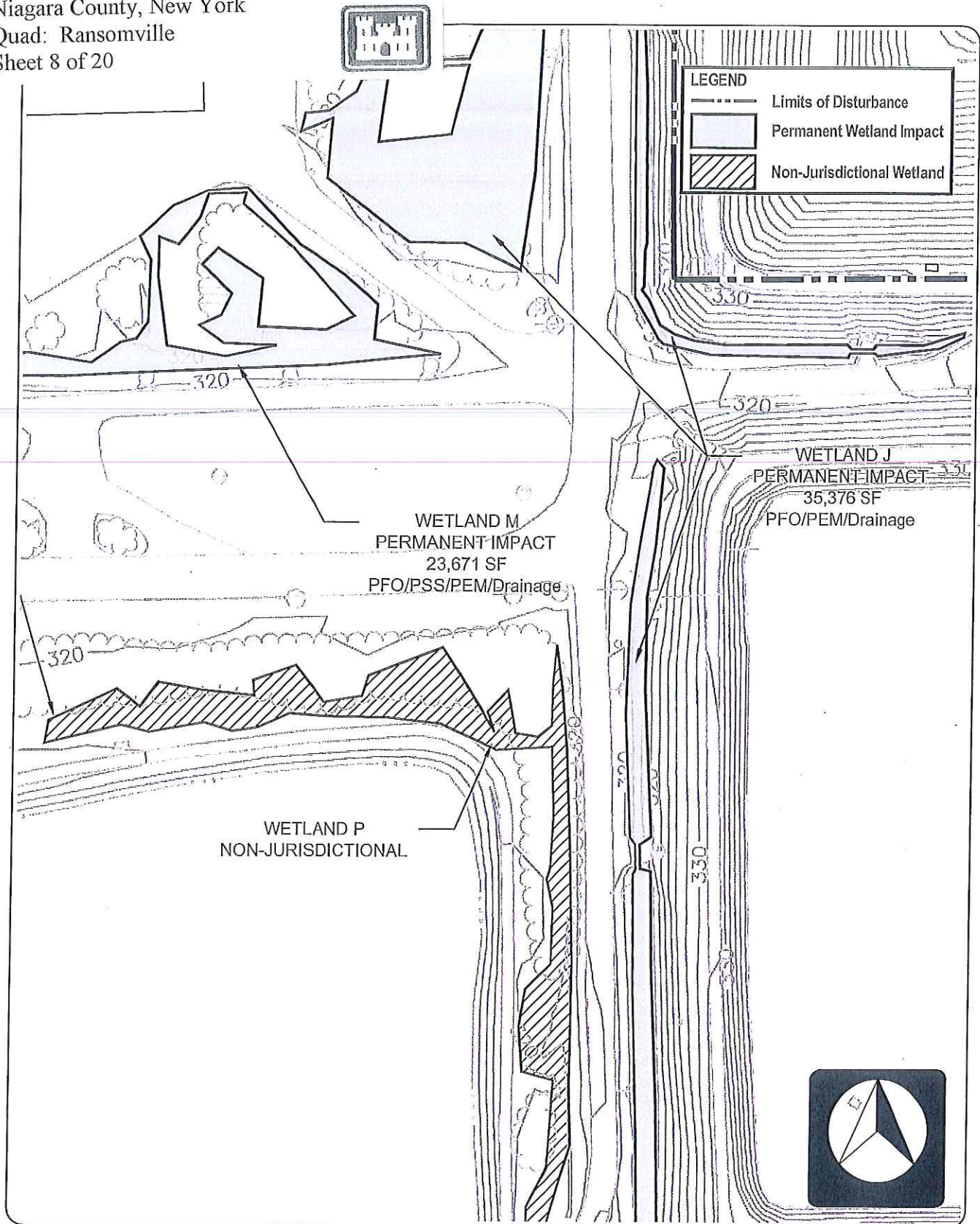




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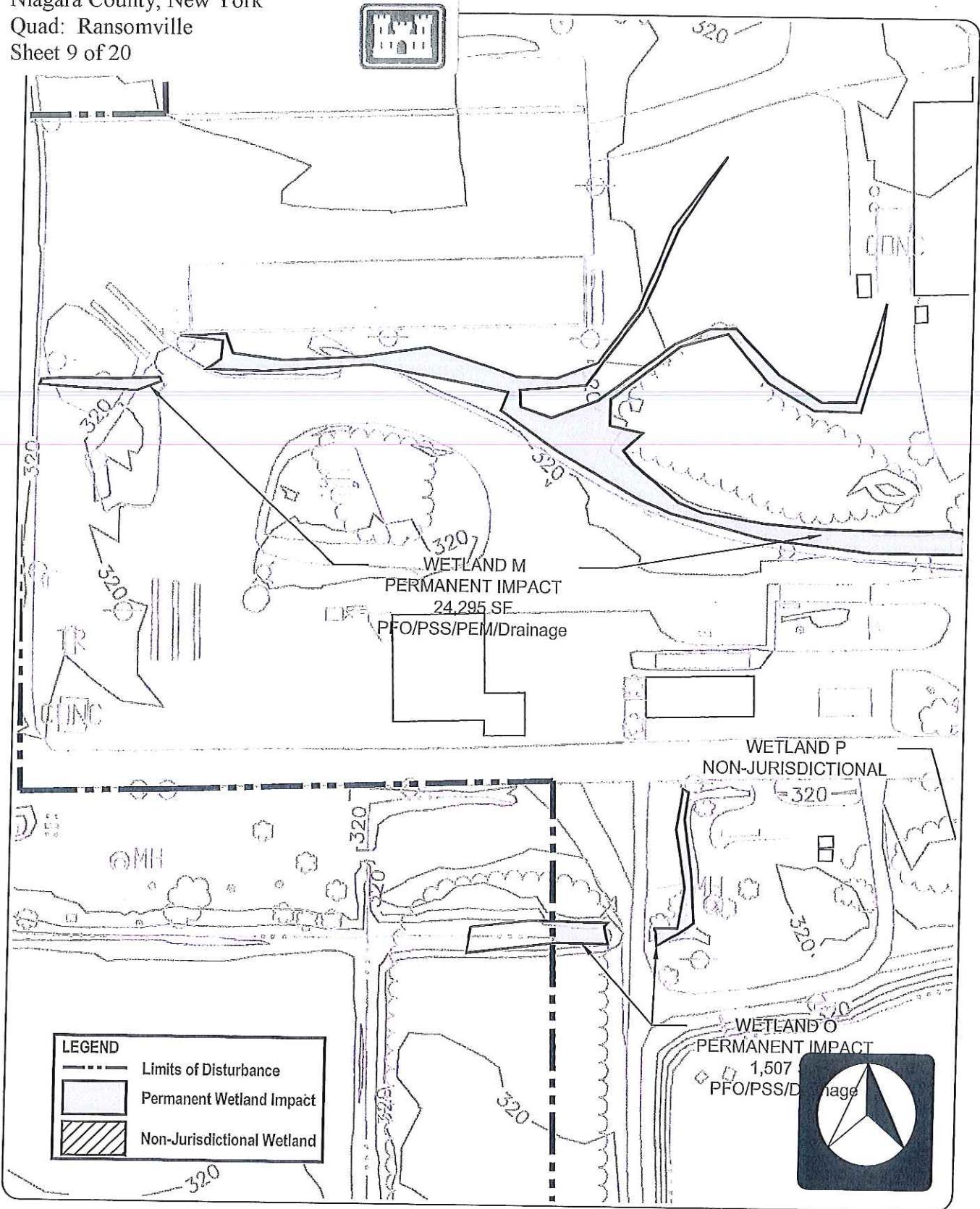




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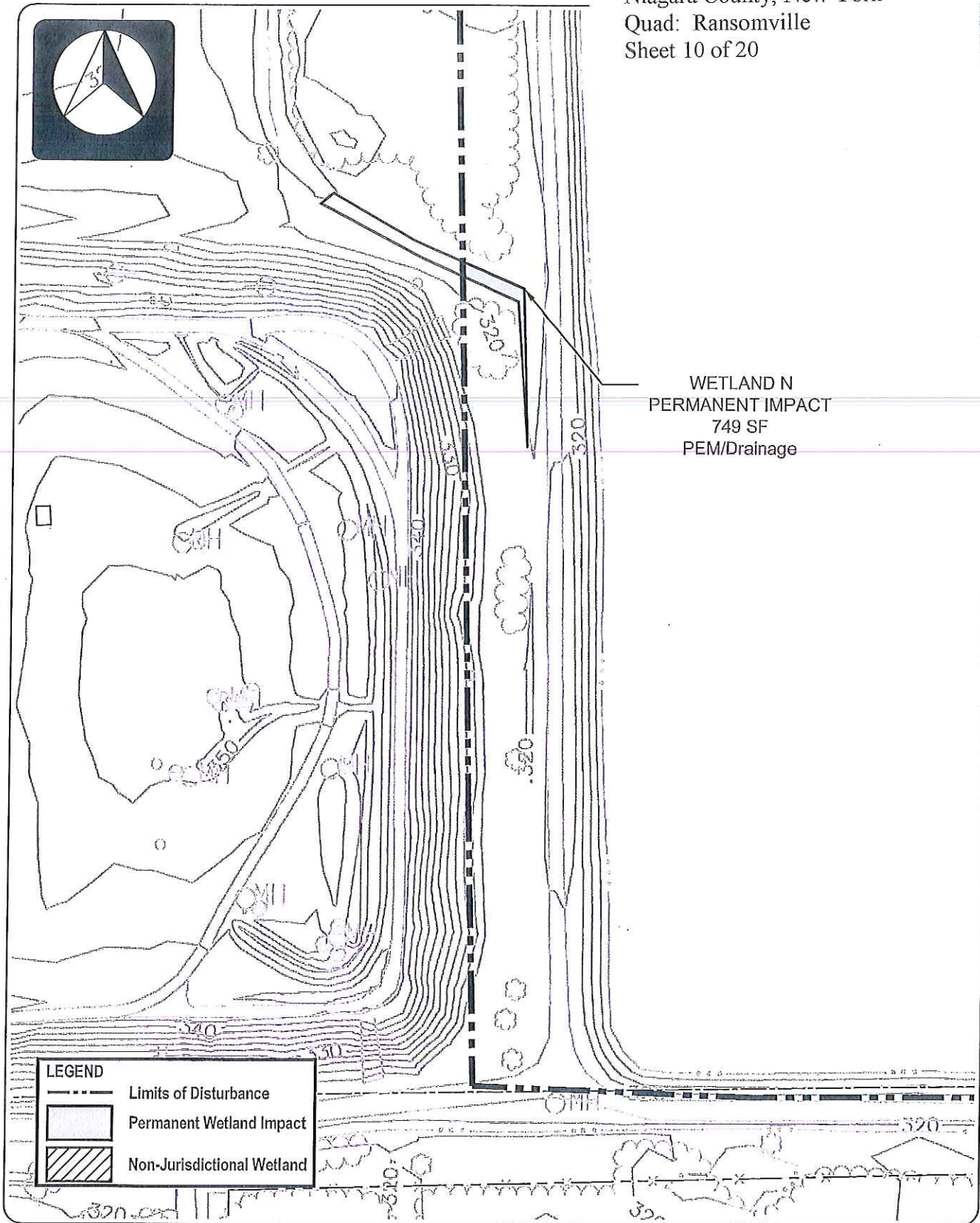
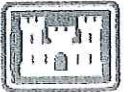




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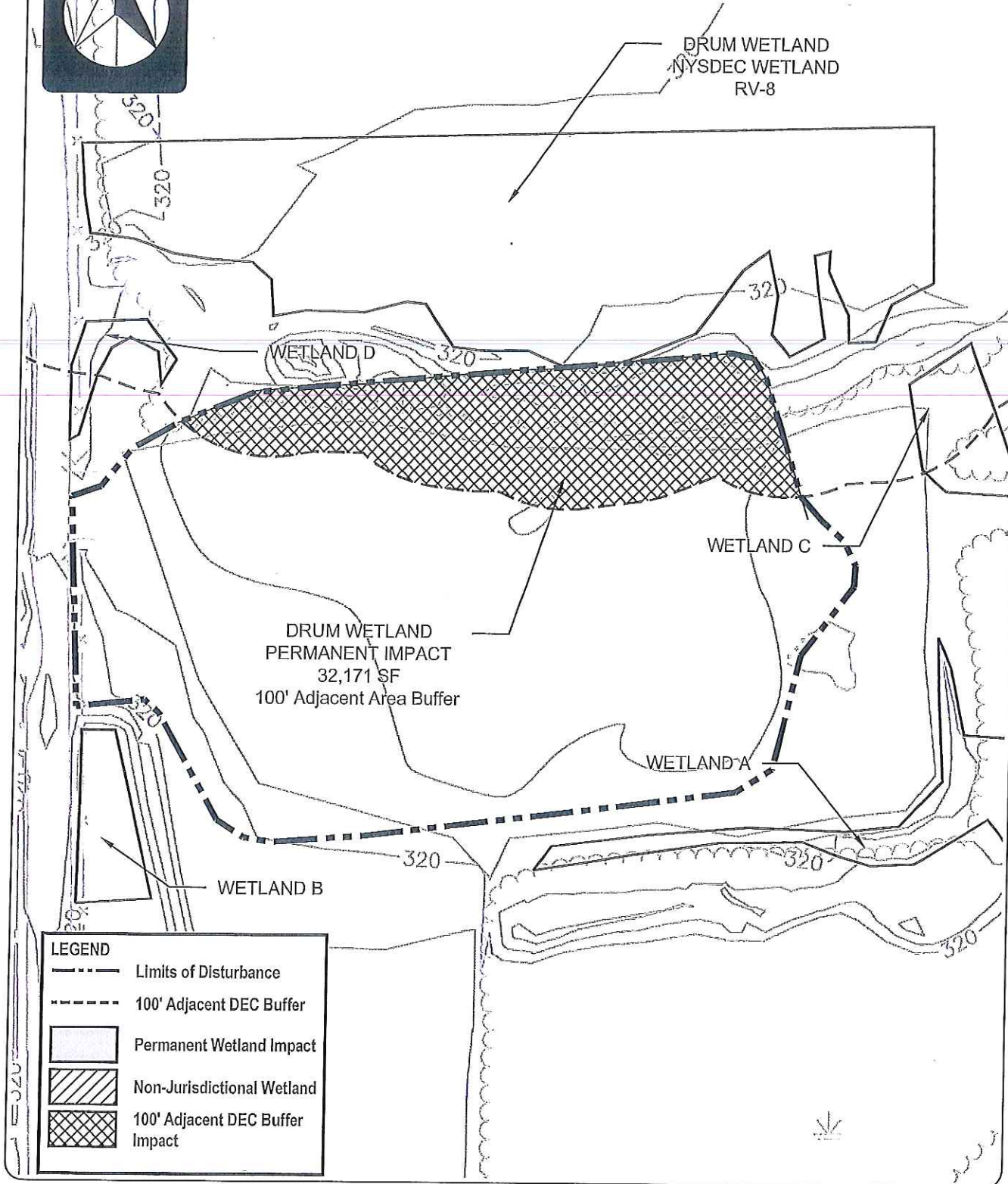
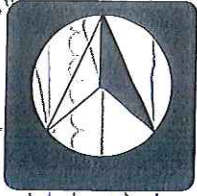
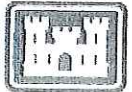




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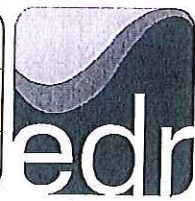
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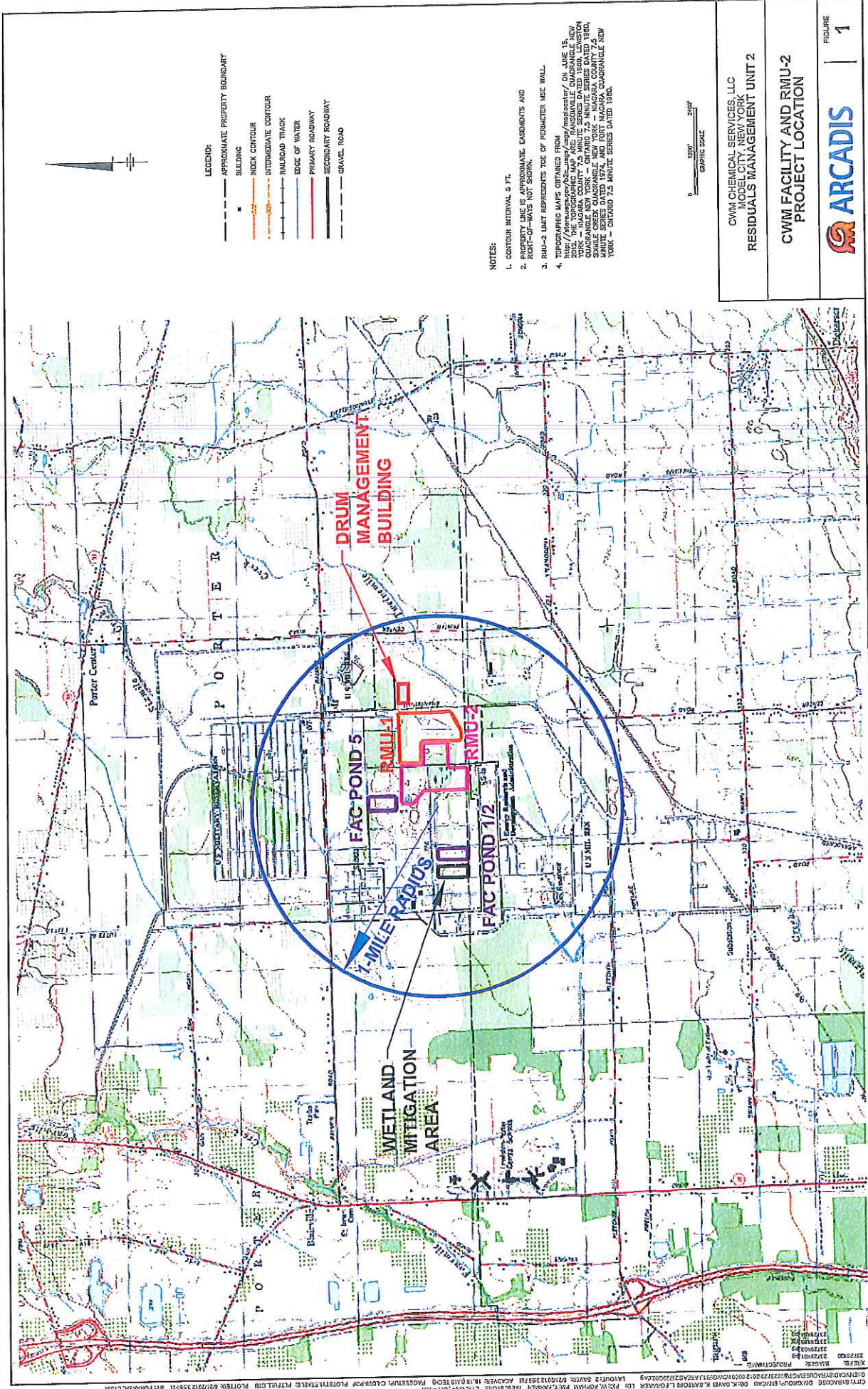




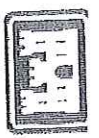
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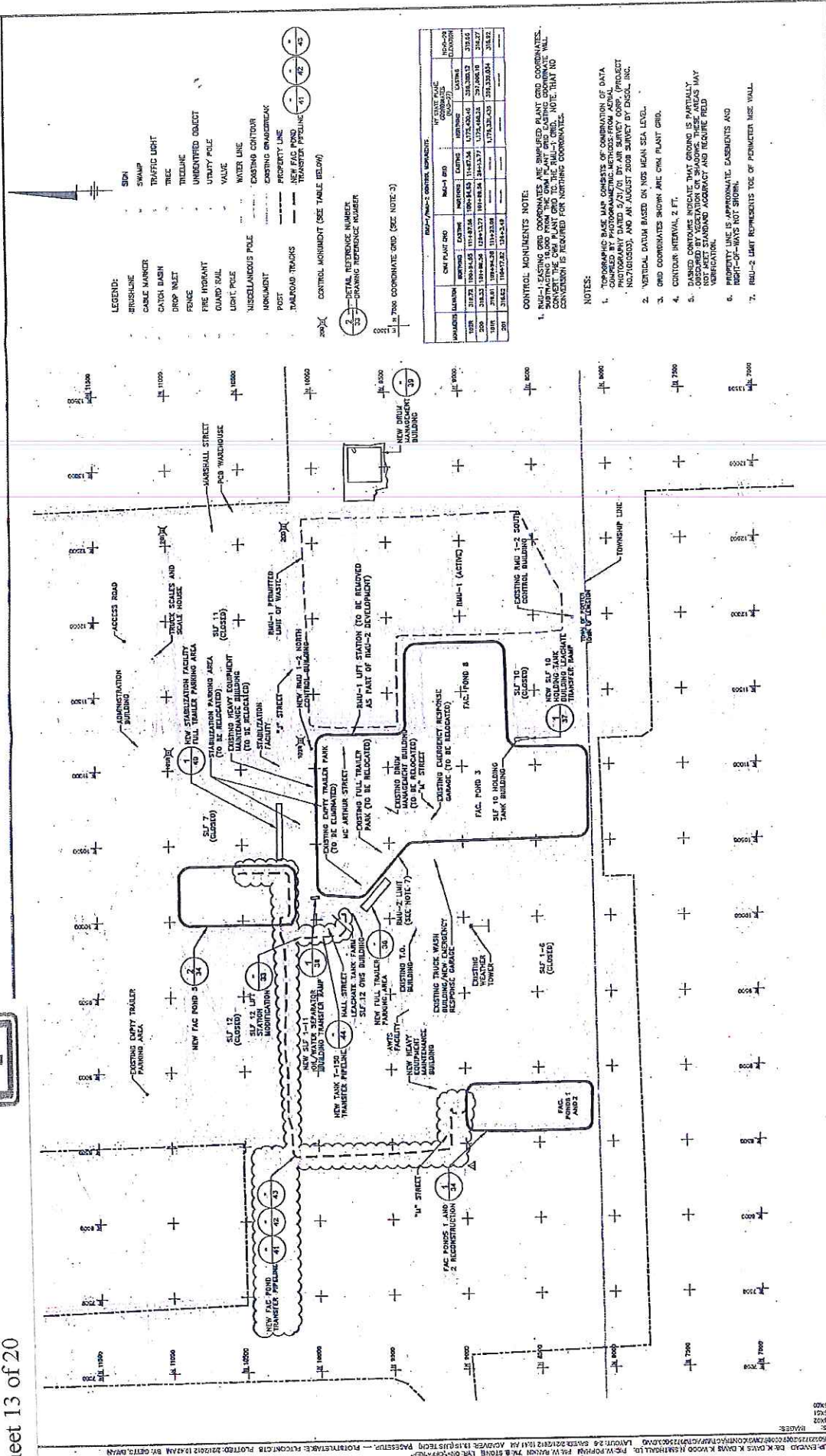
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SCALE: 1"=100'	DATE: June 2013





CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
 Sheet 17 of 70





LEGEND:

- BRUSHLINE
- CABLE MARKER
- CATCH BASIN
- DITCH INLET
- FENCE
- FIRE HYDRANT
- GUARD RAIL
- LIGHT POLE
- MISCELLANEOUS POLE
- POST
- RAILROAD TRACKS
- SIDEWALK
- SWAMP
- TRAFFIC LIGHT
- TREE
- TRENCH
- UNIDENTIFIED COLLECT
- UTILITY POLE
- VALVE
- WATER LINE
- EXISTING CONTOUR
- EXISTING BRIDGEWALK
- PROPERTY LINE
- NEW FAC FOND
- TRANSFER PIPELINE
- CONTROL MONUMENT (SEE TABLE BELOW)
- SETBACK REFERENCE NUMBER
- DRAWING REFERENCE NUMBER
- 1983 NAD 83 COORDINATE GRID (SEE NOTE-3)

NO.	DESCRIPTION	COORDINATE	TYPE
1	MONUMENT	1778.231-315	MONUMENT
2	MONUMENT	1778.231-315	MONUMENT
3	MONUMENT	1778.231-315	MONUMENT
4	MONUMENT	1778.231-315	MONUMENT
5	MONUMENT	1778.231-315	MONUMENT
6	MONUMENT	1778.231-315	MONUMENT
7	MONUMENT	1778.231-315	MONUMENT
8	MONUMENT	1778.231-315	MONUMENT
9	MONUMENT	1778.231-315	MONUMENT
10	MONUMENT	1778.231-315	MONUMENT

CONTROL MONUMENTS NOTE:

1. ALL EXISTING GRID COORDINATES ARE SIMPLIFIED PLANT GRID COORDINATES. SURVEYING 18,000 FOOT GRID TO THE REAL-GRID. NOTE: THAT NO CONVERSION IS REQUIRED FOR NOTHING COORDINATES.

NOTES:

1. TOPOGRAPHIC BASE MAP CONSISTS OF COMBINATION OF DATA OBTAINED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 5/7/01 BY AIR PHOTOGRAPHIC SURVEY, INC. PHOTOGRAPHS AND PHOTOGRAMMETRIC DATA PROVIDED BY ENCAL, INC.
2. VERTICAL DATUM BASED ON MGS MEAN SEA LEVEL.
3. GRID COORDINATES SHOWN ARE OWN PLANT GRID.
4. CONTOUR INTERVAL 2 FT.
5. DAMPED CONTOURS INDICATE THAT GROUND IS PARTIALLY OBTAINED BY VEGETATION OR SHADOWS. THESE AREAS MAY NOT MEET STANDARD ACCURACY AND RELATIVE FIELD ADJUSTMENT IS REQUIRED.
6. PROPERTY LINE IS APPROXIMATE. EASEMENTS AND RIGHT-OF-WAYS NOT SHOWN.
7. RELU-2 LIGHT REPRESENTS TOE OF PERMETER WEE WALL.

2-6

PROPOSED FACILITY LOCATIONS

RESIDUALS MANAGEMENT UNIT 2 DRAFT ENVIRONMENTAL IMPACT STATEMENT

CWM CHEMICAL SERVICES, LLC - NIAGARA COUNTY, NEW YORK

ARCADIS
ARCADIS OF NEW YORK, INC.

Prepared by: JOSEPH MOLINA
Checked by: [Name]
Reviewed by: [Name]

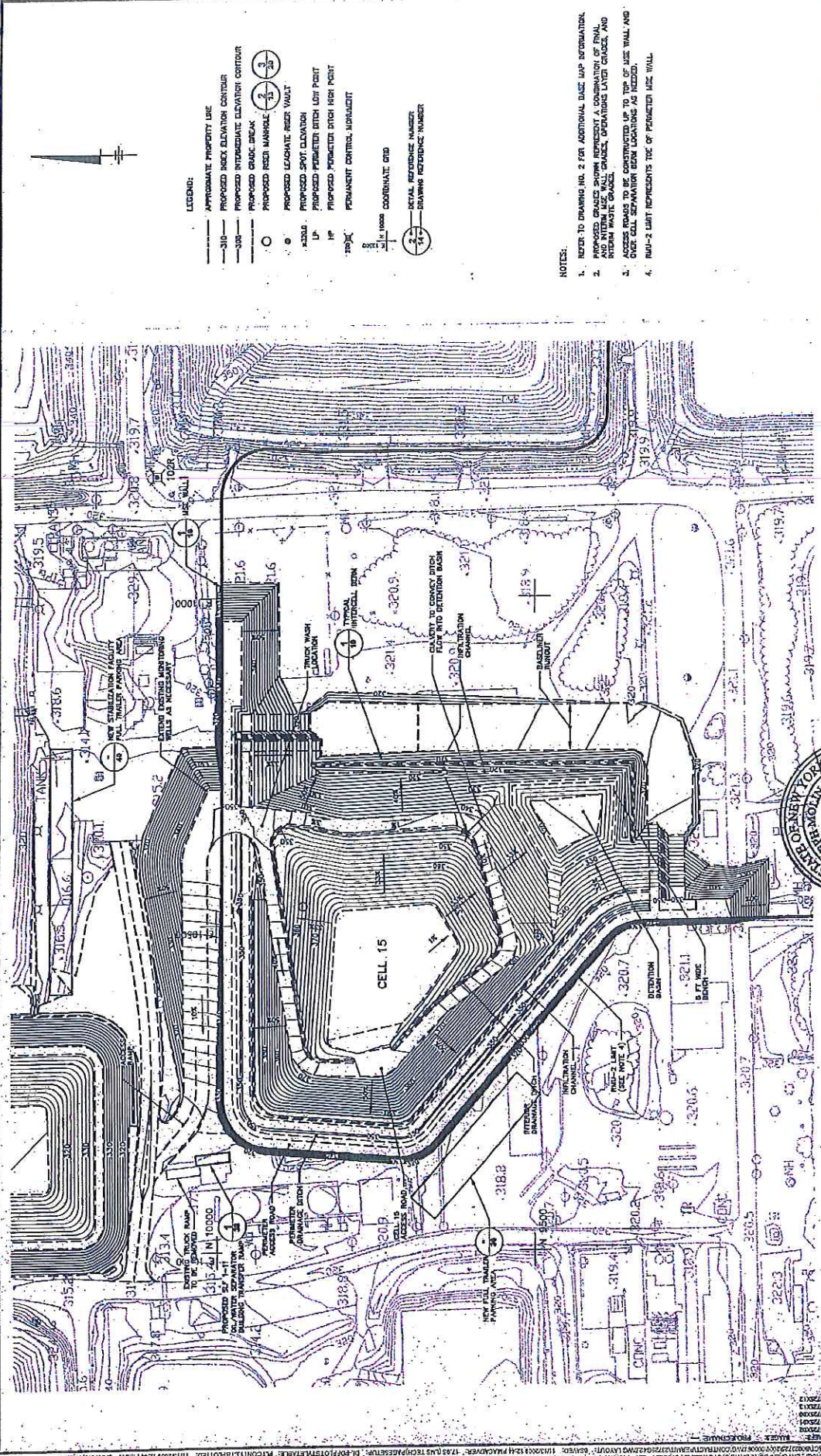
DATE: 07/24/04

SCALE: 1"=300'

NORTH ARROW

UTM COORDINATE GRID

PROJ: NAD 83
DATUM: NAD 83
UNIT: METERS
ZONE: 18N
SPHEROID: GRS 80
SEMIMAJOR AXIS: 6378137.0
FLATTENING: 1/298.257
FALSE EASTING: 500000.0
FALSE NORTHING: 0.0
CENTROID EASTING: 500000.0
CENTROID NORTHING: 0.0



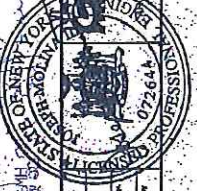
- LEGEND:
- APPROXIMATE PROPERTY LINE
 - - - PROPOSED ROCK ELEVATOR CONTOUR
 - - - PROPOSED INTERMEDIATE ELEVATOR CONTOUR
 - PROPOSED GRADE BREAK
 - PROPOSED REIN. MARKER
 - PROPOSED LEACHATE REEFER VAULT
 - PROPOSED SPOT ELEVATION
 - UP PROPOSED PERMETER EPOCH LOT POST
 - HP PROPOSED PERMETER EPOCH HIGH POINT
 - ⊙ PERMANENT CONTROL MONUMENT
 - ⊙ 11' IRON COORDINATE CIRC
 - ⊙ 14' IRON COORDINATE CIRC
 - ⊙ 14' IRON COORDINATE CIRC

- NOTES:
1. REFER TO DRAWING NO. 2 FOR ADDITIONAL DIME MAP INFORMATION.
 2. PROPOSED GRADES SHOWN REPRESENT A COMPARISON OF FINAL AND INTERIM DIME WALL CHANGES, OPERATIONS LATER CHANGES, AND RICHMOND WASTE CHANGES.
 3. ACCESS ROADS TO BE CONSTRUCTED UP TO TOP OF DIME WALL AND OTHER WALL SEPARATION BEARS DIMENSIONS TO RICHMOND.
 4. RUM-2 LIMIT REPRESENTS TIE OF PERMETER DIME WALL.

DATE: AUGUST 2000
 PROJECT: ARCADIS OF NEW YORK, INC.
 P.O. BOX 18
 1755 25th STREET
 14150

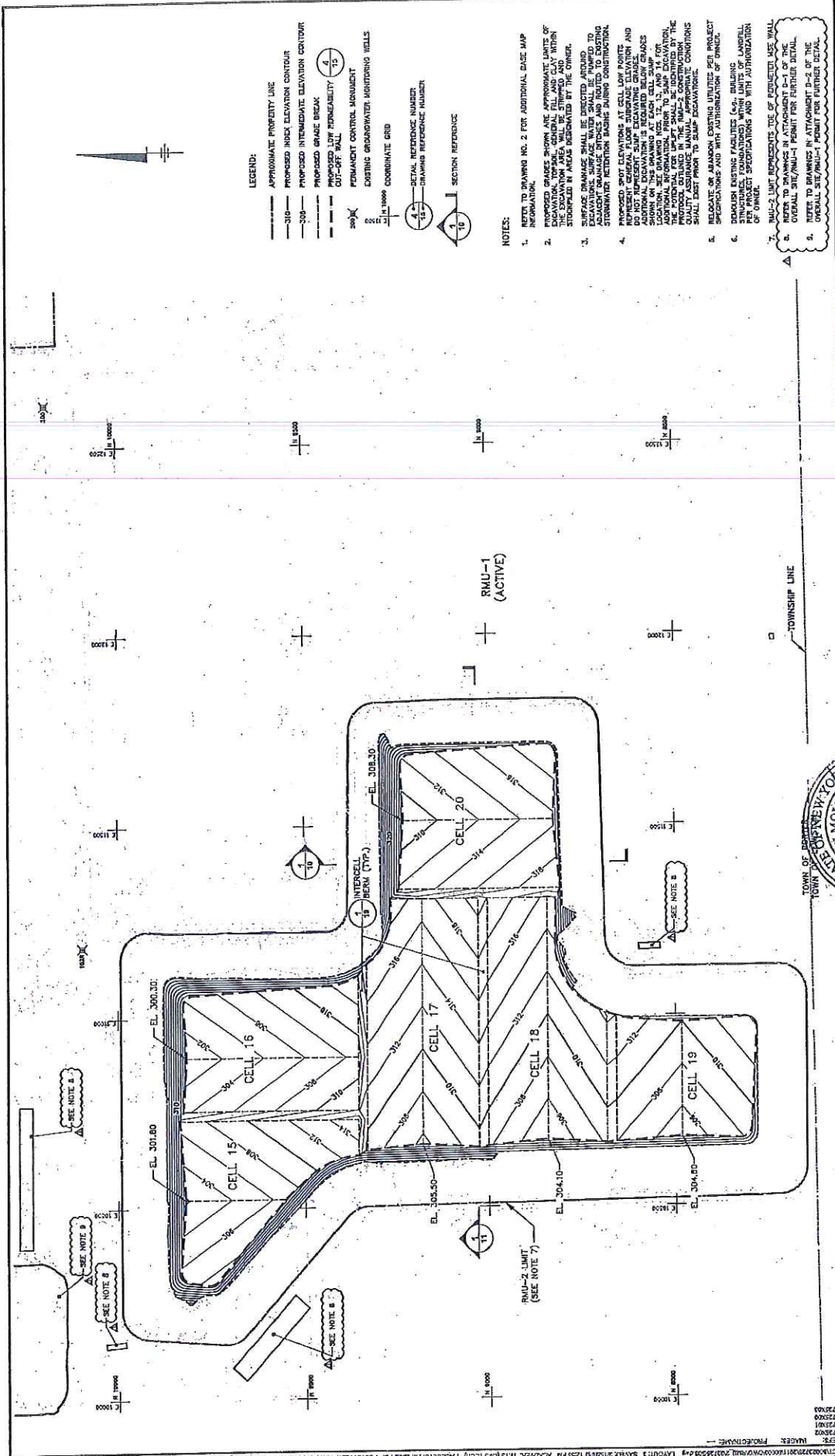
CELL 15 INITIAL FILL PROGRESSION

ARCADIS
 A DIVISION OF PARSONS BRINCKERHOFF
 A DIVISION OF NEW YORK, INC.

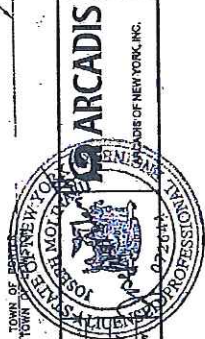


PROJECT NO. 072644
 SHEET NO. 8
 DATE: 08/15/00

CWM Chemical Services, LLC
 D/A Processing No. 2000-01534
 Niagara County, New York
 Quad: Ransomville
 Sheet 14 of 20



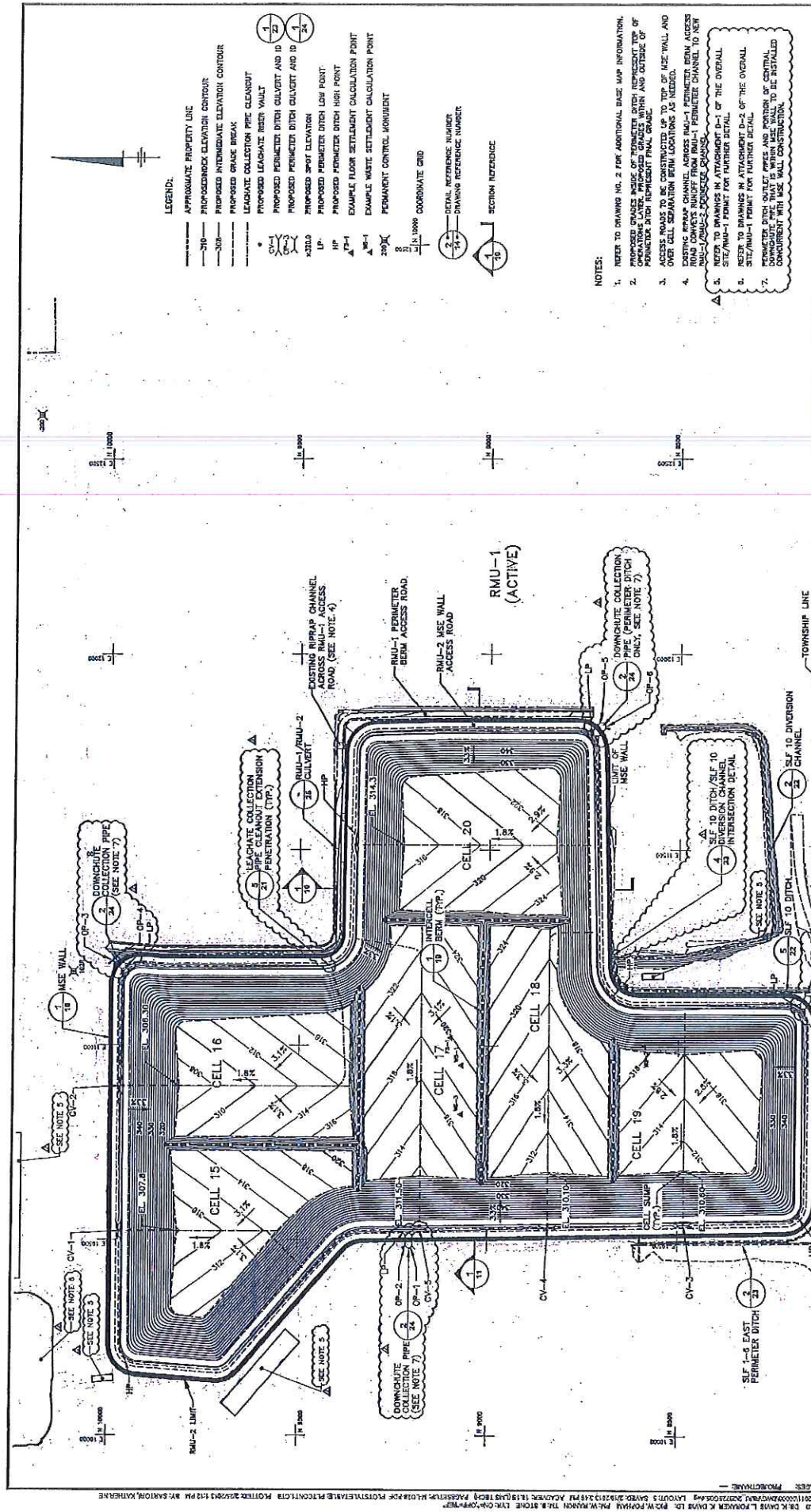
<p>CITY OF RAMSOMVILLE, NORTH CAROLINA ENGINEER: J. R. BARTON, R. K. HARRIS DATE: 08/27/2009 PROJECT: EXCAVATION GRADES</p>		<p>ARCADIS PROJECT NO. 000000000000</p>	<p>3</p>
<p>CWM CHEMICAL SERVICES, LLC • ADDISON, CITY, NEW YORK RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING</p>		<p>ARCADIS PROJECT NO. 000000000000</p>	<p>3</p>
<p>DATE: 08/27/09 DRAWN BY: J. R. BARTON CHECKED BY: R. K. HARRIS</p>		<p>ARCADIS PROJECT NO. 000000000000</p>	<p>3</p>
<p>DATE: 08/27/09 DRAWN BY: J. R. BARTON CHECKED BY: R. K. HARRIS</p>		<p>ARCADIS PROJECT NO. 000000000000</p>	<p>3</p>



EXCAVATION GRADES

- NOTES:**
1. REFER TO DRAWING NO. 2 FOR ADDITIONAL GUE MAP INFORMATION.
 2. PROPOSED GRADES SHOWN ARE APPROXIMATE LIMITS OF EXCAVATION, TOPSOIL, GRADUAL FILL, AND CLAY WITHIN INTERPOLATED IN AREAS DESIGNATED BY THE OWNER.
 3. SURFACE DRAINAGE SHALL BE DIRECTED AROUND EXCAVATIONS. SURFACE WATER SHALL BE PUMPED TO EXISTING DRAINAGE SYSTEMS OR TO AN EXISTING STORMWATER RETENTION BASIN DURING CONSTRUCTION.
 4. PROPOSED SPOT ELEVATIONS AT CELL LOW POINTS REPRESENT GENERAL FLOOR SUBGRADE ELEVATION AND NOT FINISH GRADE. FINISH GRADE SHALL BE DETERMINED BY THE OWNER. ADDITIONAL EXCAVATION IS REQUIRED BELOW GRADES SHOWN ON THIS DRAWING AT CELL 15, 16, 17, 18, 19, AND 20. ADDITIONAL INFORMATION FROM THE SUMP EXCAVATION PERMIT SHALL BE OBTAINED BY THE OWNER. THE PROPOSED EXCAVATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SUMP EXCAVATION PERMIT. THE SUMP EXCAVATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SUMP EXCAVATION PERMIT. THE SUMP EXCAVATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SUMP EXCAVATION PERMIT.
 5. RELOCATE OR ABANDON EXISTING UTILITIES PER PROJECT SPECIFICATIONS AND WITH AUTHORIZATION OF OWNER.
 6. DEMOLISH EXISTING FACILITIES (e.g., BUILDING STRUCTURES, FOUNDATIONS) WITHIN LIMITS OF UNWELLED EXCAVATION WITH AUTHORIZATION OF OWNER.
 7. RMU-3 LIMIT REPRESENTS THE USE OF PERMITTED USE WALL. THE PERMITTED USE WALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PERMITTED USE WALL PERMIT FOR FURTHER DETAIL.
 8. REFER TO DRAWINGS IN ATTACHMENT D-2 OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.
 9. REFER TO DRAWINGS IN ATTACHMENT D-2 OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.

CWM Chemical Services, LLC
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 Niagara County, New York
 Quad: Ramsomville
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- LEGEND:**
- APPROXIMATE PROPERTY LINE
 - PROPOSED ELEVATION CONTOUR
 - PROPOSED INTERMEDIATE ELEVATION CONTOUR
 - PROPOSED GRADE BREAK
 - LEGAL GRADE COLLECTION PIPE CLEAROUT
 - PROPOSED LEGAL GRADE REEF VAULT
 - PROPOSED PERIMETER DITCH CALVERT AND ID
 - PROPOSED PERIMETER DITCH CALVERT AND ID
 - PROPOSED PERIMETER DITCH CALVERT AND ID
 - PROPOSED PERIMETER DITCH CALVERT AND ID
 - PROPOSED PERIMETER DITCH LOW POINT
 - PROPOSED PERIMETER DITCH HIGH POINT
 - EXAMPLE FLOOR SETTLEMENT CALCULATION POINT
 - PERMANENT CONTROL MONUMENT
 - COORDINATE GRID
 - DETAIL REFERENCE NUMBER
 - DRAWING REFERENCE NUMBER
 - SECTION REFERENCE

- NOTES:**
1. REFER TO DRAWING NO. 2 FOR ADDITIONAL BASE MAP INFORMATION.
 2. PROPOSED SPACES INSIDE OF PERIMETER DITCH REPRESENT TOP OF PERIMETER BERM ACCESS ROAD AND OUTSIDE OF PERIMETER BERM ACCESS ROAD REPRESENT FINAL GRADE.
 3. ACCESS ROADS TO BE CONSTRUCTED UP TO TOP OF MSE WALL AND OVER CELL SEPARATION BERM LOCATIONS AS NEEDED.
 4. EXISTING PERIMETER CHANNEL ACROSS RMU-1 PERIMETER BERM ACCESS ROAD SHALL BE REMOVED AND REPLACED WITH PERIMETER CHANNEL TO NEW SIZE/RMU-1 PERIMETER BERM ACCESS ROAD.
 5. REFER TO DRAWING NO. 2 ATTACHMENT D-2 OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.
 6. PERIMETER DITCH OUTLET PIPES AND PORTION OF CENTRAL DOWNHOLE PIPE THAT IS WITHIN MSE WALL TO BE INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH PERMITTING REQUIREMENTS OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.
 7. PERIMETER DITCH OUTLET PIPES AND PORTION OF CENTRAL DOWNHOLE PIPE THAT IS WITHIN MSE WALL TO BE INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH PERMITTING REQUIREMENTS OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.

PROJECT NUMBER	2000-01534
DATE	08/11/2000
PROJECT NAME	TOP OF OPERATIONS LAYER GRADES
PROJECT LOCATION	4779 Ransomville Road, Ransomville, NY
CLIENT	CWM Chemical Services, LLC
DESIGNER	ARCADIS
SCALE	AS SHOWN

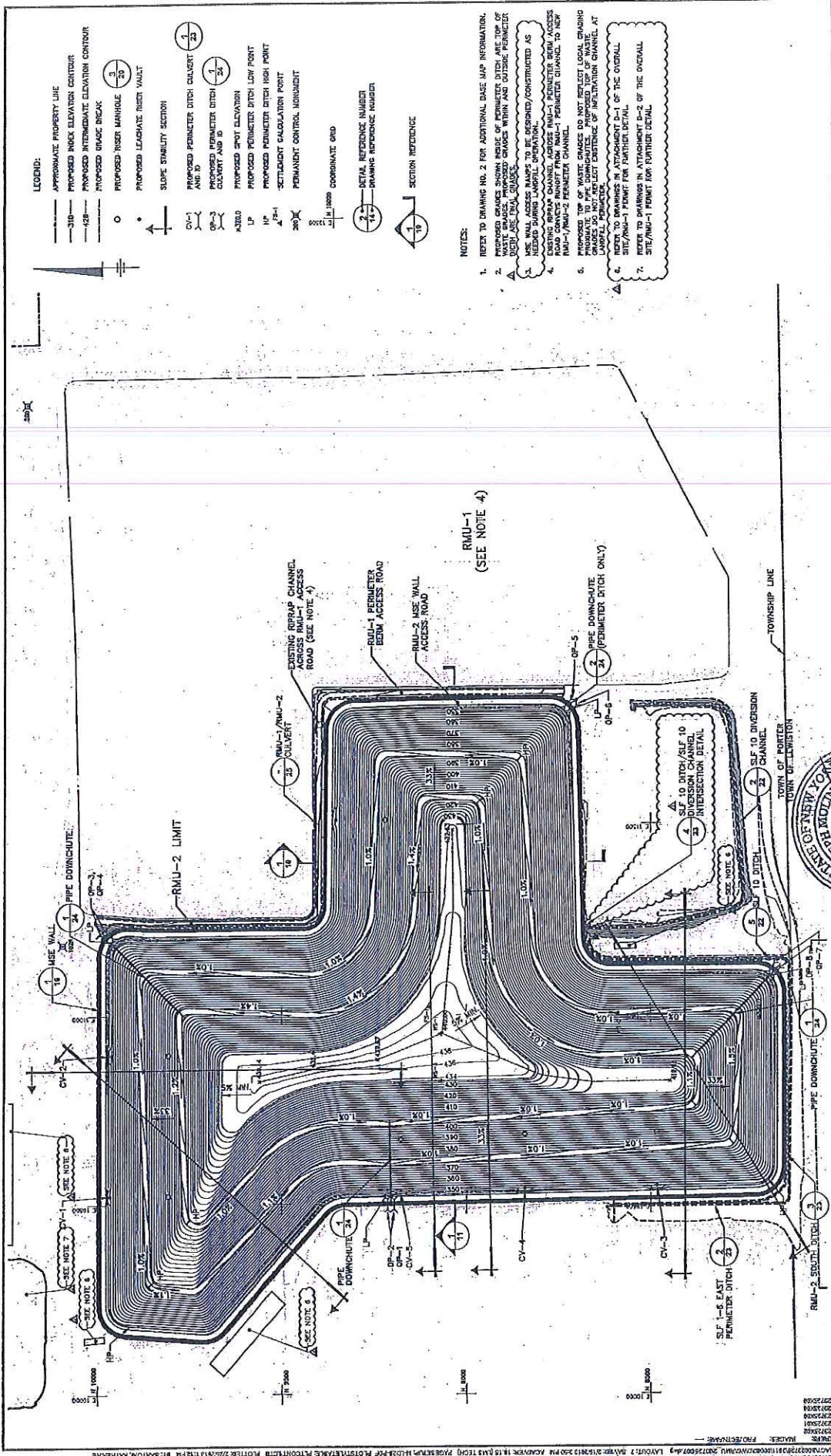
TOP OF OPERATIONS LAYER GRADES



PROJECT NUMBER	2000-01534
DATE	08/11/2000
PROJECT NAME	TOP OF OPERATIONS LAYER GRADES
PROJECT LOCATION	4779 Ransomville Road, Ransomville, NY
CLIENT	CWM Chemical Services, LLC
DESIGNER	ARCADIS
SCALE	AS SHOWN

CWM Chemical Services, LLC
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 Niagara County, New York
 Quad: Ransomville
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LEGEND:

- APPROXIMATE PROPERTY LINE
- 310 — PROPOSED INDEX ELEVATION CONTOUR
- 428 — PROPOSED INTERMEDIATE ELEVATION CONTOUR
- 430 — PROPOSED GRADE BREAK
- PROPOSED INLET MANHOLE (3/24)
- PROPOSED LEACHATE TRENCH VALVE
- ▲ SLOPE STABILITY SECTION
- CH-1 PROPOSED PERMETER DITCH CULVERT AND 30' CULVERT AND 30'
- OP-2 PROPOSED PERMETER DITCH CULVERT AND 30'
- ▲ 24.0 PROPOSED SPOT ELEVATION
- HP PROPOSED PERMETER DITCH LOW POINT
- ▲ 24.1 PROPOSED PERMETER DITCH HIGH POINT
- ▲ 24.2 SETTLEMENT CALCULATION POINT
- ▲ 24.3 PERMANENT CONTROL MONUMENT
- 1" = 1000' — COORDINATE GRID
- 1" = 100' — DETAIL REFERENCE NUMBER
- 1" = 100' — DRAWING REFERENCE NUMBER
- 1" = 100' — SECTION REFERENCE

NOTES:

1. REFER TO DRAWING NO. 2 FOR ADDITIONAL BASE MAP INFORMATION.
2. PROPOSED GRADES SHOWN INSIDE OF PERMETER DITCH ARE TOP OF WASTE GRASSES. PROPOSED GRADES WITHIN AND OUTSIDE PERMETER DITCH ARE FINAL GRADES.
3. USE WALL ACCESS RAMPS TO BE DESIGNED/CONSTRUCTED AS PERMANENT CONTROL MONUMENTS.
4. EXISTING RIPRAP CHANNEL ABOVE RMU-1 PERMETER BEAM ACCESS ROAD IS TO BE MAINTAINED AS PERMANENT CHANNEL. RMU-1/RMU-2 PERMETER CHANNEL.
5. PROPOSED TOP OF WASTE GRASSES DO NOT REFLECT LEGAL CHANGING PROPERTIES TO PIPE LEACHATE TRENCH VALVE. TOP OF WASTE GRASSES TO BE MAINTAINED AS PERMANENT CONTROL MONUMENT AT LATERAL PERMETER.
6. REFER TO DRAWINGS IN ATTACHMENT D-1 OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.
7. REFER TO DRAWINGS IN ATTACHMENT D-2 OF THE OVERALL SITE/RMU-1 PERMIT FOR FURTHER DETAIL.

<p>CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING</p>		<p>ARCADIS Project No. 0000791200000000 Date: 01/20/2009 ARCADIS of New York, Inc. 400 Broadway Street New York, New York Tel: 212.261.2121</p>	<p>7</p>
<p>ARCADIS PROFESSIONALS OF NEW YORK, INC.</p>		<p>DATE: 01/20/2009 DRAWN BY: ZIZILIS CHECKED BY: ZIZILIS PROJECT NO.: 072614 SHEET NO.: 7</p>	

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 Niagara County, New York
 Quad: Ransomville
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WALL EROSION/SEDIMENTATION CONTROL MEASURES	
WALL TOP OF EXISTING AREA	WALL TOP OF PROPOSED AREA
10000	30000
10000	30000
10000	30000
10000	30000
10000	30000
10000	30000
10000	30000
10000	30000
10000	30000
10000	30000

NOTE

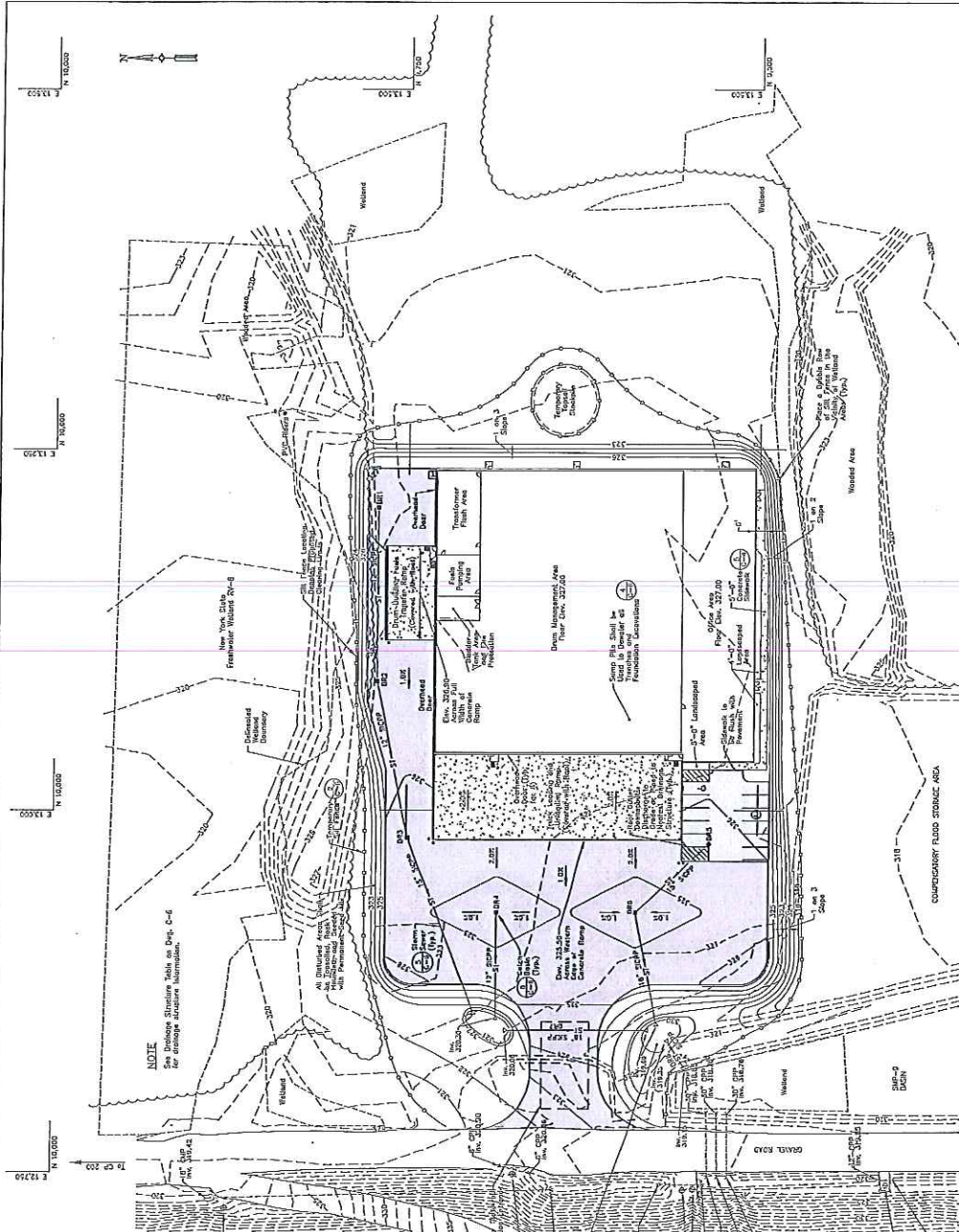
All activities shall be subject to the jurisdiction of the local health department. The contractor shall be responsible for obtaining all necessary permits and for providing necessary materials and labor for the construction and maintenance of the erosion/sedimentation control measures. The contractor shall be responsible for the design, construction, and maintenance of all erosion/sedimentation control measures. The contractor shall be responsible for the design, construction, and maintenance of all erosion/sedimentation control measures.

SOIL EROSION/SEDIMENTATION CONTROL MEASURES

1. All soil exposed and erosion of topsoil shall be minimized to prevent sedimentation. Erosion control measures shall be installed prior to any construction activities, including earthmoving.
2. The temporary erosion/sedimentation control measures depicted on this plan shall be installed prior to any earthmoving activities. The contractor shall be responsible for maintaining the controls during construction and ensuring that they remain in place throughout the construction period.
3. All erosion control structures shall remain in effective operating condition.
4. The contractor shall be responsible for the design, construction, and maintenance of all erosion/sedimentation control measures.
5. All areas to be graded shall be stabilized prior to grading. The contractor shall be responsible for the design, construction, and maintenance of all erosion/sedimentation control measures.
6. Any erosion of sediment control structures shall be immediately cleaned, repaired, and/or replaced upon notice of any damage.
7. All construction activities shall be subject to the jurisdiction of the local health department.

CONSTRUCTION SEQUENCE

1. Install all facets of the foundation indicated on the plan, including a double row of 24" face core vertical erosion.
2. Install stabilized construction reference.
3. Excavate and backfill with compacted fill to the proposed grade, including all drainage ditches, and backfill at the same time.
4. Slope topped from the proposed permanent grade, drainage swales, berm areas, and building areas and place 11" within the designated storage area.
5. Construct the building per using temporary erosion control.
6. Install temporary erosion control measures.
7. Install permanent erosion control measures, including all drainage ditches, and building areas.
8. Backfill permanent area and immediately place asphaltic fabric and crushed stone base material.
9. Final grade, topsoil, seed, and mulch all areas that will not require future disturbance.
10. Final grading, topsoil, seed, and mulch all remaining disturbed areas from the drainage ditches and building areas.
11. Final grading, topsoil, seed, and mulch all remaining disturbed areas from the drainage ditches and building areas.
12. Following establishment of a healthy growth of turf sods, all disturbed areas, remove the soil fabric.



GRADING, DRAINAGE, AND SOIL EROSION/SEDIMENT CONTROL PLAN

SCALE: 1" = 40'
SCALE (FEET)
0 40 80

REVISIONS		DATE		BY	
1	ADD	12/27/12	GT		
2	ADD	12/29/12	GT		

PROJECT NO.		C-3
PROJECT NAME		GRADING, DRAINAGE, AND SOIL EROSION/SEDIMENT CONTROL PLAN
DATE	ISSUE	DATE
6-20-12	11-4-05	11-4-05
SCALE		1" = 40'
DRAWN BY		GT
CHECKED BY		GT
APPROVED BY		GT
DATE		MAY 30, 2013
PROJECT LOCATION		GRADING PLANDINGS

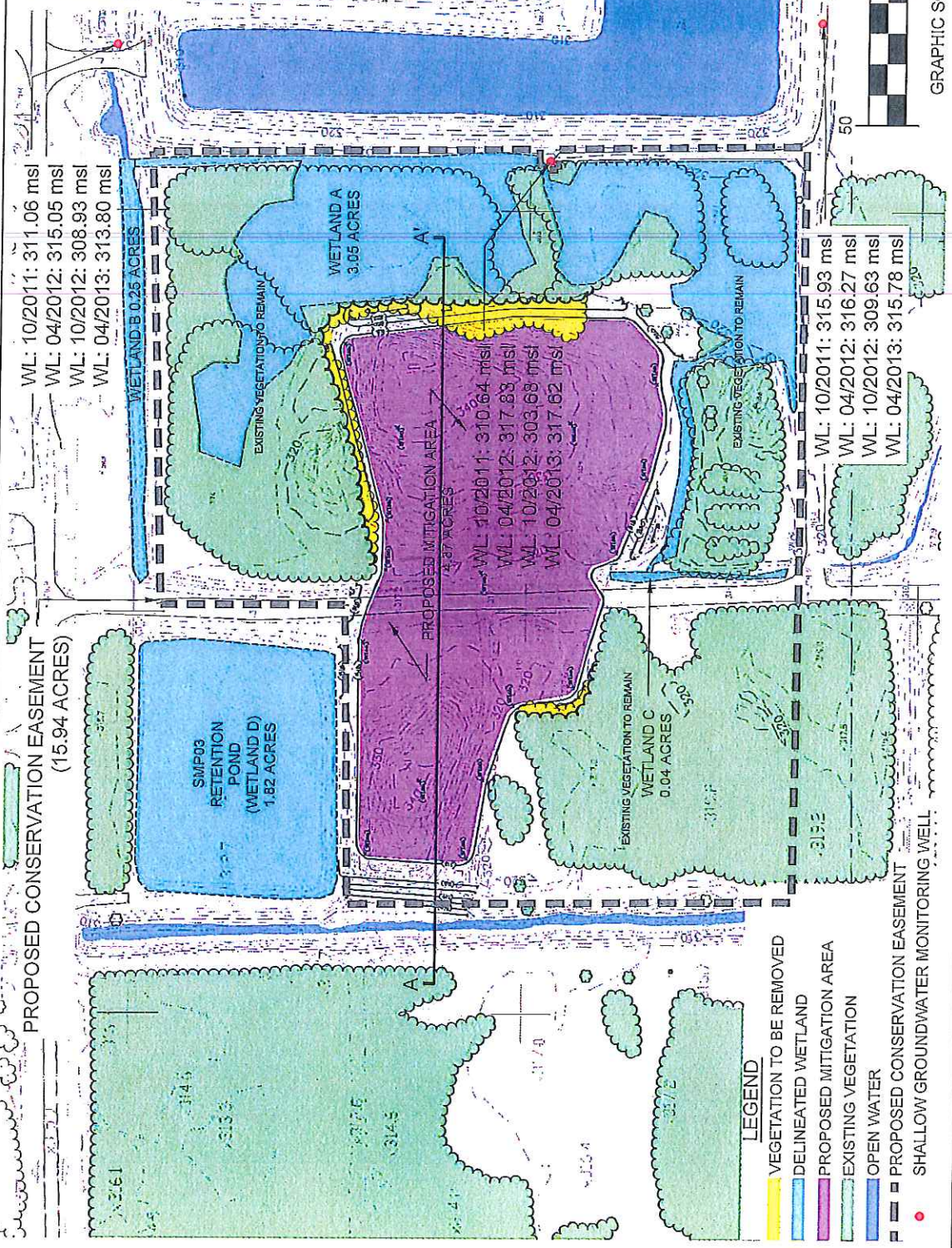
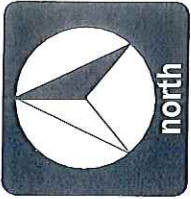
DRUM MANAGEMENT BUILDING RELOCATION PROJECT	
CWM CHEMICAL SERVICES, LLC	
MODEL CITY FACILITY	
MODEL CITY, NEW YORK	

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

WASTE MANAGEMENT	
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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 A
 3.85 ACRES
 EXISTING VEGETATION TO REMAIN

PROPOSED MITIGATION AREA
 4.37 ACRES
 WL: 10/2011: 310.64 msl
 WL: 04/2012: 317.88 msl
 WL: 10/2012: 303.68 msl
 WL: 04/2013: 317.62 msl

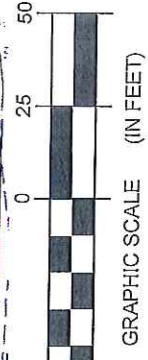
WETLAND C
 0.04 ACRES
 EXISTING VEGETATION TO REMAIN

WETLAND B
 0.25 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

SMP03
 RETENTION POND
 (WETLAND D)
 1.82 ACRES

PROPOSED CONSERVATION EASEMENT
 (15.94 ACRES)

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

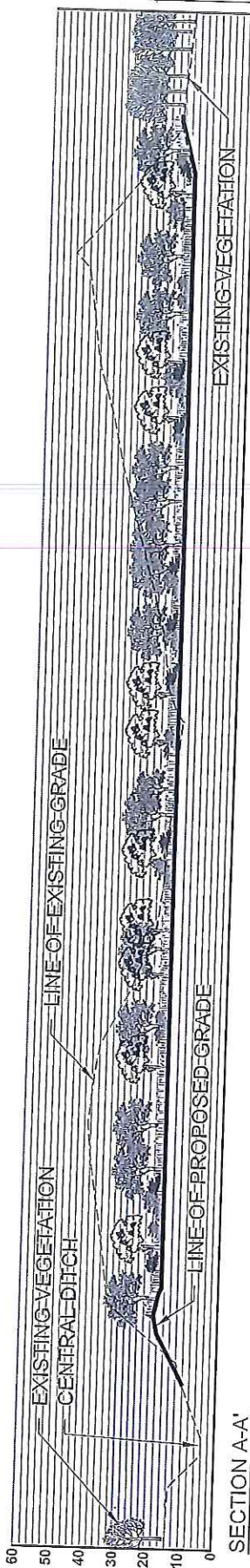


edr JOB NUMBER: 09022
DRAWING NUMBER: L-1
SCALE: 1" = 50'-0" DATE: 07/10/2013

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.

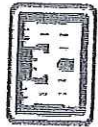
SEEDING -
 ERNST RETENTION BASIN WILD LIFE MIX
 ERNMIX #: ERNMIX-127
 SEEDING RATE: 20 lb PER ACRE, OR 1/2 lb PER 1000 FT²
 ERNST CONSERVATION SEEDS
 1-800-873-3321

NORTHEAST WETLAND SHRUB / HERB MIX 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
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CHECKED BY: JP

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

