



We Energies
333 West Everett St.,
A231 Milwaukee, WI
53203

www.we-energies.com

November 13, 2019

Ms. Jennifer Borski
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
625 E. County Road Y, Suite 700
Oshkosh, Wisconsin 54901

**RE: Direct Contact Barrier Maintenance and Material Management Plan Approval Request
APPLETON CITY (COAL TAR) FORMER APPLETON MGP
WDNR BRRTS No. 02-45-000042
337 W. Water St.
Appleton, WI 54911 Outagamie County**

Dear Ms. Borski,

A Draft Direct Contact Barrier Maintenance and Material Management Plan (Draft Plan) was submitted to WDNR for the above referenced site on December 21, 2017. The submittal of this Draft Plan was prompted by the City of Appleton approaching We Energies regarding the possibility of leasing the property for the purposes of expanding the Ellen Kort Peace Park. The City had reviewed the Draft Plan and indicated that they agreed with its provisions and requirements prior to the submittal to WDNR.

On February 15, 2018, WDNR provided comments on the Draft Plan via the enclosed email. These comments have been incorporated into the enclosed Direct Contact Barrier Maintenance and Material Management Plan (Plan). We Energies is requesting review and approval of this Plan, and the planned park expansion construction as described below, by January 2020 to accommodate the City's planned approval and construction schedule. A WDNR Technical Assistance Form (Form 4400-237) and associated fees are enclosed.

The WDNR-approved remedy for the Former Appleton MGP Site consisted of ISS soil treatment, as well as offsite thermal treatment of soil prior to treated soil being replaced at the site. The remedy also included installation of a Cap across the site, consisting of Clean Soil (including a minimum of 4-inches of topsoil and 8-inches of general fill) or an Access Drive (including 1-foot of compacted crushed aggregate backfill atop 8-oz. Non-woven geotextile).

The Plan and associated WDNR approval are needed prior to closure of the Open BRRTS Case No. 02-45-000042 because the WDNR-approved remedy will be disturbed by the City's planned expansion of the Park, as shown in the enclosed Trail Expansion Plan Set. The Plan and DNR approvals will be included

by reference in the lease agreement between the City and We Energies and will also be included in construction bid documents prepared by the City for the Park. We Energies and the City want to ensure that the proposed plan for barrier maintenance and material management is in accordance with WDNR requirements prior to any disturbance of the existing Cap or Residually Impacted Subsurface Materials.

The extent of the Cap approximately aligns with trail expansion Stations 9+00 to 17+19. As shown on the enclosed Trail Expansion Plan Set Sheet C1.04, the majority of the park expansion earthwork within the area of the Cap is associated with filling activities. We Energies has worked with the City through multiple iterations of the park expansion plan set to minimize disturbance to the Cap and Residually Impacted Subsurface Materials. However, there are planned shallow cuts, primarily along the reference line of the proposed trail. As shown on the cross-sections contained within the enclosed Trail Expansion Plan Set, portions of the existing Cap are planned to be excavated from approximately Station 11+50 to the eastern project limits and thin surface sections of thermally treated soil are planned to be excavated from approximately Station 12+50 to the eastern project limits.

In areas where the existing Cap is removed, a minimum of 1 foot of clean fill will be maintained on top of thermally treated soil. To comply with this requirement, clean fill equally or more impervious than existing Cap material may be imported to the site and placed atop reused/remaining Cap material or exposed thermally treated soil.

In areas where thermally treated soil is disturbed, the thermally treated soils will be managed in accordance with the Direct Contact Barrier Maintenance and Material Management Plan. A minimum of 1 foot of clean fill will be maintained on top of the newly established surface of the thermally treated soil. To comply with this requirement, clean fill equally or more impervious than existing Cap material may be imported to the site and placed atop reused Cap material or exposed thermally treated soil.

The expansion of the Ellen Kort Peace Park will not disturb the ISS monolith and will maintain a layer of clean fill material of minimum 1-foot thickness on top of thermally treated soil. Any thermally treated soil that is disturbed will be managed in accordance with the Plan. Following park expansion, the new cap will be subject to the same maintenance and inspection guidelines as outlined in the Plan unless indicated otherwise by the DNR.

Ms. Jennifer Borski
Former Appleton MGP Cap Maintenance Plan
Wisconsin Department of Natural Resources
November 13, 2019
Page 3

Please do not hesitate to contact me at (414) 221-2156 or via email at frank.dombrowski@we-energies.com with any comments, questions or concerns.

Sincerely,



Frank Dombrowski
Principal Environmental Consultant
WEC Business Services – Environmental Dept.

Enclosures:

WDNR Draft Plan Review Comments Email
Direct Contact Barrier Maintenance and Material Management Plan
WDNR Technical Assistance Form 4400-237
Ellen Kort Peace Park Trail Expansion Plan Set

cc: Project file
Dean Gazza – City of Appleton (electronic copy)
Tonya Peters – We Energies (electronic copy)
Scott Sheppard – We Energies (electronic copy)
Brian Hennings – Ramboll (electronic copy)

WDNR DRAFT PLAN REVIEW COMMENTS EMAIL

From: [Borski, Jennifer - DNR](#)
To: [Dombrowski, Frank J](#)
Cc: [Musekamp, Walter G](#); [Gazza, Dean](#); [Bartoszek, Brian F](#); [Brian Hennings](#); [Qualls, Rita C](#)
Subject: RE: We Energies Appleton MGP - Cap Maintenance & Materials Handling Plan
Date: Thursday, February 15, 2018 10:44:59 AM
Importance: High

Frank,

I discussed your proposal with my supervisor, Roxanne Chronert. Thank you for your patience waiting for our response.

At this time, DNR provides the following comments and instruction:

1. DNR has authority under s. NR 722.17, Wis. Adm. Code to assign a continuing obligation after approval of a remedial action.
2. Documentation requirements for entry on the database are listed under s. NR 726.11, Wis. Adm. Code and include the cap maintenance plan, inspection log, photographs, deed, CSM if available, signed statement and applicable maps and tables.
3. Submit the following:
 - a. a request for other technical assistance utilizing [Form 4400-237](#);
 - b. other technical assistance fee of \$700;
 - c. soil database fee of \$300 for entry on the soil GIS Registry;
 - d. a letter of explanation of the situation, need for the cap maintenance plan prior to case closure and a discussion on requested timing for approval of the plan; and
 - e. the proposed cap maintenance plan and other documentation described under no. 2 above.
4. Cap Maintenance Plan:
 - a. Utilize [RR-980](#) (under Case Closure tab) for the minimum language for the cap maintenance plan and attachments.
 - b. Include addition of an annual cap inspection utilizing [Form 4400-305](#) for submittal to DNR until case closure.
 - c. The language should be modified to reflect that this is an open case.
 - d. References to "Attachment D" should be removed since this will not be attachment D of a case closure request.
 - e. Include a statement communicating that the plan will be replaced upon case closure with a more comprehensive plan to address residual contamination within the Fox River and process for post closure modifications.
 - f. Description of the existing direct contact barrier on the uplands should state it is capping thermally treated soil that was replaced at the site after off-site treatment.
 - g. Lessee's responsibilities for properly managing soil and waste should reference the guidance, Management of Contaminated Soil and Other Solid Wastes [RR-060](#).
 - h. Include a statement that the ISS area may not be penetrated and sediments in the Fox River may not be disturbed without prior written approval from DNR. Contact DNR in advance of request to discuss appropriate process and applicable fee(s).
5. Reference [RR-690](#) for guidance on submittal of a hard copy of the complete request and attachments along with a single pdf to the regional mailbox (or DNR FTP site) for upload to BRRTS.

Northeast Region RR is currently working with several vacancies and a high work load. Please be very specific about when approval of the plan is needed and why to assist with prioritizing our fee-related submittals. Let me know if you have any questions or would like to schedule a call to discuss the information presented in this email.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jennifer Borski

Phone: (920) 424-7887

Jennifer.borski@wisconsin.gov

From: Dombrowski, Frank J [mailto:Frank.Dombrowski@we-energies.com]
Sent: Thursday, December 21, 2017 2:58 PM
To: Borski, Jennifer - DNR <Jennifer.Borski@wisconsin.gov>
Cc: Musekamp, Walter G <Walter.Musekamp@we-energies.com>; Gazza, Dean <Dean.Gazza@appleton.org>; Bartoszek, Brian F <BFBartoszek@integrysgroup.com>; Brian G. Hennings (bhennings@naturalrt.com) <bhennings@naturalrt.com>; Qualls, Rita C <Rita.Qualls@we-energies.com>
Subject: We Energies Appleton MGP - Cap Maintenance & Materials Handling Plan

Jennifer,

We have prepared the attached draft Direct Contact Barrier Maintenance and Materials Management Plan for the Appleton MGP site (Appleton City (Coal Tar) MGP – BRRS Activity # 02-45-000042). As you know, the City of Appleton has approached We Energies regarding the possibility of leasing the property for the purposes of expanding the Ellen Kort Peace Park. Note that the City has reviewed the attached Plan and has indicated that they are in agreement with its provisions and requirements.

It would be most helpful if you could provide guidance (e.g., RR-987?) as to what documentation or additional correspondence the Department may require in order to provide approval for the modified land use. In addition, please let us know what, if any, review fees may be needed to complete the process of obtaining DNR concurrence with this proposal.

Please feel free to contact me at your convenience if there are any questions or if additional information is needed.

Thanks,

Frank Dombrowski

Principal Environmental Consultant

WEC Energy Group - Business Services

Environmental Dept. - Land Quality Group

333 W. Everett St., A231

Milwaukee, WI 53203
Office: (414) 221-2156
Cell: (414) 587-4467
Fax: (414) 221-2022

*Serving WEC Energy Group, We Energies, Wisconsin Public Service, Michigan Gas
Utilities, Minnesota Energy Resources, Peoples Gas and North Shore Gas*

DIRECT CONTACT BARRIER MAINTENANCE AND MATERIAL MANAGEMENT PLAN

Direct Contact Barrier Maintenance and Material Management Plan

November 13, 2019

Property Located at:

337 West Water Street
Appleton, WI 54911

DNR BRRTS# 02-45-000042

Appleton City (Coal Tar)
Former Appleton Manufactured Gas Plant (MGP)
FID# Not Assigned

Property Legal Description and Survey Map

See Appendix A
City of Appleton, Wisconsin
Outagamie County
NW1/4, Section 35, T21N, R17E
(Refer to attached Figures 1 and 2, Appendix B)

TAX/Parcel Identification Number

Parcel IDs #312078600, 312078700, 312078800, and 312078900
Zoning C-2 General Commercial, M-2 General Industrial, PD Planned Development Overlay

Introduction

This Direct Contact Barrier (“Cap”) Maintenance and Materials Management Plan (“Plan”) has been prepared for the above-referenced property (“Property”) in accordance with NR 724.13 (2), Wis. Adm. Code to be implemented for unsaturated soils and remediated areas on the Property prior to closure of the currently open WDNR BRRTS ERP Case #02-45-000042. This Plan will be replaced upon case closure with a more comprehensive plan to further address residual contamination within the Fox River and the process for post-closure modification.

This Plan documents the maintenance responsibilities associated with the land use controls and continuing obligations applicable to the Property. The maintenance activities relate to the existing Earthen and Access Drive Cap which addresses or occupies the area over the residual contamination. A depiction of the dimensions and physical characteristics of the Cap are provided in Appendix C – Construction Documentation Report Information.

More site-specific information about this property/site may be found in:

- The case file in the DNR Northeast Region office
 - At <http://dnr.wi.gov/topic/Brownfields/wrrd.html>, which includes:
 - BRRTS on the Web (DNR’s internet-based data base of contaminated sites) for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
 - RR Sites Map for a map view of the site, and
 - The DNR project manager for Outagamie County.
-

D.1. Descriptions:

Description of Contamination

Thermally treated soil, *in situ* solidified/stabilized (ISS) soil, ISS swell material, groundwater and any other MGP-impacted materials (collectively defined as Residually Impacted Subsurface Materials) remain at the Property. The thermally treated soil was taken off-site for thermal treatment prior to being re-placed at the site after treatment. Unsaturated Residually Impacted Subsurface Materials are located 1 foot bgs and the groundwater table surface typically ranges between 3 and 28 feet bgs.

Soil remedial action activities were conducted in two phases (in 2003 and 2004) and are documented in the WDNR-approved April 19, 2004 Phase I Remedial Construction Documentation Report (Phase I CDR) and December 16, 2004 Phase II Remedial Construction Documentation Report (Phase II CDR), respectively. Pertinent information regarding Residually Impacted Subsurface Materials from these reports are provided in Appendix C, and include the following:

- Phase I CDR
 - Table 9 - Post-treatment Soil Analytical Results (CDR Phase I)
 - Soil analytical data for thermally treated soil
- Phase II CDR
 - C093 Phase II – ISS Column Layout (CDR Phase II)
 - Extent of ISS work
 - C100 Phase II – Site Restoration Plan (CDR Phase II)
 - Final restoration plan.
 - C101 Phase II – Site Restoration Sections (CDR Phase II)
 - Cross-sections depicting locations of Cap, thermally treated soil, ISS swell material, and ISS

Together, Figure 3 in Appendix B and the information provided in Appendix C depict the lateral and vertical extent of remediation and Residually Impacted Subsurface Materials at the Property. When conducting any future excavation, removal, or disturbance of subsurface materials these areas and depths bgs should be avoided to the maximum degree possible. As described in further detail below, to the extent that such avoidance of these areas is not practicable, special precautions, notifications and materials management activities will be required.

Groundwater is between 3 and 28 feet below ground surface and continues to be monitored using the well locations illustrated on Appendix B, Figure 3 and Appendix D, Figure 16. MGP-Impacted Groundwater within the limits illustrated on Appendix D, Figure 16 may contain residual amounts of dense non-aqueous phase liquid (DNAPL) and constituents of concern (COCs) including benzene, toluene, ethylbenzene, xylenes (BTEX), naphthalene and other polyaromatic hydrocarbons (PAHs), and arsenic. Detailed descriptions of groundwater flow and quality can be found in the annual Groundwater Reports for the Appleton City (Coal Tar) Former Appleton Manufactured Gas Plant (MGP) submitted to the City of Appleton and on file with WDNR.

Description of the Cap to be Maintained

As depicted on Sheets C100 and C101, Appendix C, in various locations across the property, the Cap consists of: 1) Earthen Cap and 2) Access Drive. The Earthen Cap consists of Clean Soil (including a minimum of 4-inches of topsoil and 8-inches of general fill). The Access Drive consists of 1-foot compacted crushed aggregate

backfill atop of 8-oz. non-woven geotextile. Representative photographs of the Cap are included in Appendix F.

Cap Purpose

As part of the remedy, the Cap shall be maintained over the Residually Impacted Subsurface Materials to serve as a barrier to prevent direct human contact within the top 1 foot of ground surface that might otherwise pose a threat to human health. The Cap should function as intended unless penetrated or disturbed. Based on the current use of the property, including C-2 General Commercial, M-2 General Industrial, and PD Planned Development Overlay, the barrier should function as intended unless disturbed.

Annual Inspection

The Earthen Cap and Access Drive overlying the Residually Impacted Subsurface Materials, as depicted on Sheets C100 and C101, Appendix C, will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying Residually Impacted Subsurface Materials. The inspections will be performed by the Lessee or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented.

A log of the inspections and any repairs will be maintained by the Lessee and is included as Appendix G, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying Residually Impacted Subsurface Materials are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept on file by: (1) WDNR, Northeast Region; (2) the future Lessee and their property management designee; and (3) We Energies. The Plan shall be made available by the Lessee to prospective contractors, utilities and maintenance personnel, and any other public or private persons or entities authorized to perform work that may entail excavation, removal or disturbance of surface and subsurface materials at the Property. Previous investigation, design and construction documentation reports for the Property are on file with the WDNR and are available upon request (WDNR file reference: Appleton City (Coal Tar) MGP, BRRS # 02-45-000042).

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Lessee shall notify We Energies at least 30 days in advance of any repairs deemed to be necessary for maintaining the integrity of the Cap. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying Residually Impacted Subsurface Materials, the Lessee must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The Lessee must also sample any Residually Impacted Subsurface Materials that is excavated from the site prior to disposal to ascertain if contamination remains. The Residually Impacted Subsurface Materials must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law. Alternatively, with prior WDNR approval following WDNR Guidance Document RR-060, Management of Contaminated Soil and Other Solid Wastes, Residually Impacted Subsurface Materials may be permitted to be managed on the Property or at a different property rather than being taken to an operating, licensed solid waste facility.

In the event the Earthen Cap or Access Drive overlying the Residually Impacted Subsurface Materials are removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless

indicated otherwise by the DNR or its successor.

The Lessee, in order to maintain the integrity of the Earthen Cap and Access Drive, will maintain a copy of this Maintenance Plan at the site; or, if there is no acceptable place to keep it at the site (for example, no building is present), at the address of the Lessee and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting the Cap

The following activities are prohibited on any portion of the property where Earthen Cap or Access Drive is required as shown on Sheets C100 and C101, Appendix C, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

As noted, the Lessee shall avoid, to the maximum degree possible, disturbing the Earthen Cap, the Access Drive, and Residually Impacted Subsurface Materials as included in the attached Definitions as: all soils or materials present below the Cap that are laterally or vertically within the limits of the cap illustrated on Figure 3 of the identified Cap shown on Figure 3, Appendix B.

If disturbance cannot be avoided, the Lessee shall notify We Energies a minimum of 30 days prior to the proposed work so assistance or oversight can be provided for proper handling and disposal or other management of the materials. Soil disturbing activities shall not be conducted until written approval is obtained from WDNR and We Energies. Proper material management includes, but is not limited to:

- a. Segregation of the material removed as Residual MGP-impacted Subsurface Materials to properly characterize and manage the material. All excavated materials must be managed in accordance with NR 718, Wisconsin Administrative Code (and associated technical guidance) or other applicable state and federal regulations.
- b. Residual Impacted Subsurface Materials may be excavated, but must be properly characterized, managed, and disposed as Special Waste. With appropriate prior notice, We Energies will coordinate the waste profiling, manifesting and disposal at a designated disposal facility. Alternatively, with prior WDNR approval following WDNR Guidance Document RR-060, Management of Contaminated Soil and Other Solid Wastes, Residually Impacted Subsurface Materials may be permitted to be managed on the Property or at a different property rather than being taken to an operating, licensed solid waste facility.
- c. If removal of Residual MGP-impacted Subsurface Materials is necessary, it shall be conducted by the Lessee in a manner that does not have an adverse impact to the environment and in a manner that does not exacerbate existing environmental conditions. For example, for any work that disturbs the Residual Impacted Subsurface Materials (e.g., installation of a new utility service), a vertical cutoff collar or trench seal shall be installed at the lateral limit where the Residual Impacted Subsurface Materials intersects with the Cap limit. The cutoff collar or trench seal shall consist of flowable fill, concrete, bentonite or other low permeability fill material.
- d. All MGP-impacted Groundwater (see attached Definitions) or storm water/surface water removed during construction activities (i.e., contact water) requires special handling and disposal. Such water must be managed in accordance with an approved local or state discharge permit. We Energies shall

be contacted and consulted at least 30 days prior to handling or disposal of MGP-impacted Groundwater or contact water.

To the extent that redevelopment/reuse of the property may necessitate the planting and maintenance of rooted vegetation, additional clean topsoil or other appropriate unimpacted substrate shall be added to the thickness of the Cap as needed by the Lessee.

If removal, replacement, or other changes to a cover are considered, the Lessee will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

Additional Lessee Responsibilities and Continuing Obligations

- 1) Avoid penetrating the ISS monolith: The ISS monolith may not be penetrated without prior written approval from DNR. Contact DNR in advance of request to discuss appropriate process and applicable fee(s).
- 2) Avoid disturbing sediments in the bottom of the canal: We Energies has completed extensive source removal in the canal adjacent to the Property. Fox River Sediments shall not be disturbed in the areas identified on Figure 3. Details regarding conditions of the canal bottom adjacent to the property can be found in the Assessment of Fox River Canal Dewatering and Potential for DNAPL Mobilization technical memorandum dated December 2014 on file with WDNR. Sediments in the Fox River may not be disturbed without prior written approval from DNR. Contact DNR in advance of request to discuss appropriate process and applicable fee(s).
- 3) Monitoring Well Network. The Lessee shall not damage or obstruct access to (e.g., bury or obstruct with landscaping) any existing or future groundwater monitoring wells located on the Property (see Appendix B, Figure 3 and Appendix D, Figure 16). If any of the monitoring wells are damaged, the Lessee shall contact We Energies immediately to discuss repairs. If the Lessee wishes to modify the construction of existing monitoring wells (e.g., make repairs, cut down to ground surface, increase the height of a monitoring well to match proposed grades, etc.) the Lessee will be responsible for the cost of the modifications and re-survey of the affected monitoring wells. We Energies shall be contacted and consulted at least 30 days prior to any such modifications so assistance or oversight can be provided. Modifications must meet WDNR groundwater monitoring well requirements (as specified in Wisconsin Administration Code Chapter NR 141) and well surveys must have a minimum vertical accuracy of 0.01 feet. Prior written approval may be required from WDNR and We Energies prior to any such physical modifications to the monitoring well network.
- 4) Inform construction or maintenance workers of the known subsurface and Residually Impacted Subsurface Materials in advance of any invasive soil disturbance/subsurface excavation activities. Inform employees, contractors or other construction or maintenance workers of the known Residually Impacted Subsurface Materials such that the contractor can prepare a site-specific health and safety plan, including, if necessary, air monitoring protocol, appropriate for the work being performed. All workers shall be properly qualified and take precautions to protect themselves with proper and applicable personal protective equipment (PPE) from exposures to the contaminated materials. All contractor personnel conducting or participating in work in areas that may have Residually Impacted Subsurface Materials must be HAZWOPER-trained as required by 29 CFR 1910.120.
- 5) Notification to We Energies. Notwithstanding specifications of any other contractual agreement, prior to excavation, removal or disturbance of Residually Impacted Subsurface Materials, the Lessee shall provide a minimum of 30 days' notice to We Energies and provide access to the property to We Energies and/or their designated representatives during such activities. We Energies and/or their

designated agents or representatives shall ensure that arrangements are in place for proper disposal, or other management under WDNR Guidance Document RR-060, of any such material and will be responsible for any reasonable incremental costs associated with such disposal or other management.

- 6) Documentation. Following completion of any work involving disturbance of Residually Impacted Subsurface Materials performed at the Property, a brief report shall be prepared. The report shall describe the work performed, identify the person(s)/contractor(s) who performed the work and the date of the work, and confirmation that this Plan was adhered to in completing the work. A copy of the report shall be kept on file by the Lessee and the Property Manager (or designee), if any, and a copy shall be forwarded to We Energies and filed with the WDNR upon request. An example outline for use in preparing such summary reports is included in Appendix E.

Amendment or Withdrawal of Maintenance Plan

This Plan can be amended or withdrawn by Wisconsin Electric Power Company d/b/a We Energies with the written approval of the WDNR. Upon regulatory case closure for the property by WDNR, this plan or a similar document will be incorporated into the Case Closure letter and GIS Registry packet for the site and future property owners will retain continuing obligations for adherence to the plan.

Contact Information

As of November 2019

Site Owner and Operator: Wisconsin Electric Power Company d/b/a We Energies
c/o Property Management
231 W. Michigan Street, Rm. A252
Milwaukee, WI 53201
Name: Tonya Peters
Phone 414-221-2731

Signature: _____

Lessee: City of Appleton
c/o Parks, Recreation, and Facilities Management
100 North Appleton Street
Appleton, WI 54911-4799
Name: Dean Gazza
Phone: 920-832-5905

Signature: _____

Consultant: Ramboll
Mr. Brian Hennings, PG
Mr. Glenn Luke, PE
234 West Florida Street, Fifth Floor
Milwaukee, WI 53204
(414) 837-3607

DNR: Ms. Jennifer Borski
Wisconsin Department of Natural Resources – Northeast Region
625 E. County Road Y, Suite 700
Oshkosh, WI 54901
Phone: 920-424-7887

Attachments:

Definitions

Appendix A

Legal Documents

Deed

Title (with legal description of Property)

Signed Statement

Plat Map and Site Plan

Appendix B

Figures

Figure 1 – Site Location Map

Figure 2 – Site Vicinity

Figure 3 – Extent of Residual Contamination and Cap Maintenance Areas

Appendix C

Construction Documentation Report Information

Table 9 - Post-treatment Soil Analytical Results (CDR Phase I)

C093 Phase II – ISS Column Layout (CDR Phase II)

C100 Phase II – Site Restoration Plan (CDR Phase II)

C101 Phase II – Site Restoration Sections (CDR Phase II)

Appendix D

2016 Annual Groundwater Report Information

Figure 16 - Limit of Groundwater Impacts

Appendix E

Example Documentation Report Outline

Appendix F

Photographs of Cap

Appendix G

Continuing Obligations Inspection and Maintenance Log (WDNR Form 4400-305)

DEFINITIONS

Definitions

“Access Drive” is defined as: 1-foot of compacted crushed aggregate backfill atop of 8-oz. non-woven geotextile.

“Cap” is defined as: a physical cover of varying thickness installed to restrict or prevent direct contact with Residually Impacted Subsurface Materials. Examples include (but are not limited to): 1) Earthen Cap and 2) Access Drive.

“Canal” is defined as: approximately 100 x 700 foot section of the Fox River immediately adjacent to the Property which is bounded to the north and east by the Property, and to the south and east by the island of land located between the Property and the gates of the Middle Appleton Dam (see Appendix B Figure 3).

“Earthen Cap” is defined as: Clean Soil (including 4-inches of topsoil and 8-inches of general fill).

“Clean Soil” is defined as: imported soil, including topsoil, from a quarry or other clean borrow source used as backfill in an excavation or grading, or on or near the surface.

“Thermally Treated Soil” is defined as: MGP-impacted soil that was thermally desorbed to address impacts including but not limited to benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAHs) compounds during remedial action activities conducted by We Energies. Thermally Treated Soil is located within the Cap, as shown on Figure 3 of Appendix B and Sheets C093 and C100 of Appendix C.

“ISS Swell Material” is defined as: MGP-impacted soil that was mixed with cement-based stabilizing reagents and had to be reworked to ensure proper grading during remedial action activities conducted by We Energies. The ISS Swell Material is located within the Cap, as shown on Figure 3 of Appendix B and Sheets C093 and C100 of Appendix C.

“ISS Treated Soil” is defined as: MGP-impacted soil that was mixed with cement-based stabilizing reagents during remedial action activities conducted by We Energies. The ISS Treated soil is located within the Cap, as shown on Figure 3 of Appendix B and Sheets C093 and C100 of Appendix C. The top elevation of the ISS treated soil is approximately 1 to 4 feet below ground surface, on the property. Top elevation ranges between 722 and 726 feet and bottom elevation ranges between 718.6 and 708.2 feet, NAVD 88, or approximately 4.0 to 17.0 feet below ground surface.

“MGP-impacted Groundwater” is defined as: groundwater containing evidence of dense non-aqueous phase liquid (DNAPL) including odor and visual oil or staining. Constituents of concern (COCs) include including BTEX, PAHs, and arsenic. The depth to groundwater on the Property ranges from approximately 3 to 28 feet below ground surface.

“Residually Impacted Subsurface Materials” includes all soils or materials present below the Cap shown on Figure 3 of Appendix B and Sheets C093 and C100 of Appendix C. Also collectively defined as: Thermally Treated Soil, ISS treated soil, ISS Swell Material, MGP-impacted Groundwater, as defined above.

APPENDIX A LEGAL DOCUMENTS

Prepared for: City of Appleton
Attn: Attorney Jami Grisbach
100 N Appleton St
Appleton, WI 54913-2519

ALTA COMMITMENT

SCHEDULE A

COMMITMENT NO. 082441

1. Commitment Date: December 16, 1998 at 7:30 AM

2. Policy (or policies) to be issued:

(a) ALTA Owner's Policy - (Form B)
Proposed Insured:

Policy Amount \$ 607,000.00

Wisconsin Electric Power Company, a Wisconsin corporation

(b) ALTA Loan Policy
Proposed Insured:

Policy Amount \$

3. *Fee Simple* interest in the land described in this Commitment is owned, at the Commitment Date, by

City of Appleton, a municipal corporation

4. The land referred to in this Commitment, is described as follows:

All of Lot Six (6), Seven (7), Eight (8), Nine (9), Ten (10), Eleven (11) and Twelve (12) of Block "C"; Lots Thirteen (13), Fourteen (14), Fifteen (15) and Sixteen (16) less railroad right of way and less the East 30 feet of Lot Sixteen (16) of Block "C";
These portions of Lots One (1), Two (2), Three (3), Four (4) and Five (5) of Block "C" and that portion of Block Seventy-one (71) bounded by a line described as beginning at the Northeasterly corner of Lot 5; thence South 62°13' West along the Southeasterly line of Water Street 205.4 feet; thence South 48°57' West along said line of Water Street 210 feet; thence South 41°03' East 245 feet to a point in the Northerly right-of-way line of the Chicago and North Western Railway; thence North 77°08' East 397 feet to a point on the Northeasterly line of Lot 5; thence Northwesterly along the Northeasterly line of Lot 5 to the place of beginning, all in the City of Appleton, Outagamie County, Wisconsin, according to the recorded Assessors Map of said City.

Tax Key Nos. 31-2-0786-00-0, 31-2-0787-00-0,
31-2-0788-00-0 and 31-2-0789-00-0

cc: Wisconsin Electric Power Company/Michael James

JM/mgj

File No. 082441 Property Address: W. Water Street, Appleton, WI,
"Address, as provided with application for title insurance and shown here only for the Realtor's reference."
Evans Title Companies, a division of First American Title Insurance Company

LEGAL DESCRIPTION CERTIFICATION

Parcel Numbers 312078600, 312078700, 312078800, and 312078900

**Appleton City (Coal Tar) MGP
Former Appleton Manufactured Gas Plant (MGP)
337 West Water Street
Appleton, WI 54911
WDNR BRRTS #02-45-000042**

Legal Description:

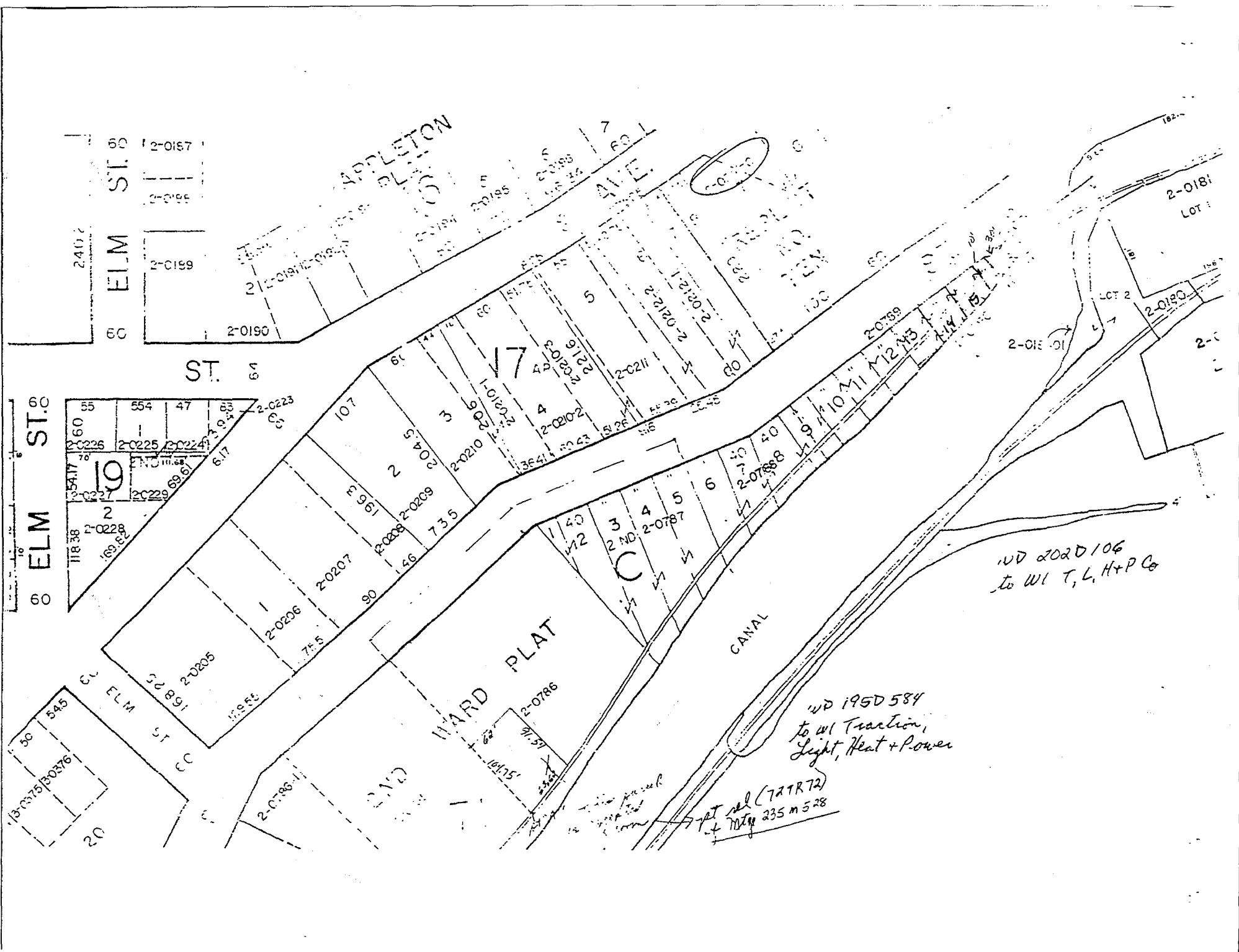
All of Lot Six (6), Seven (7), Eight (8), Nine (9), Ten (10), Eleven (11) and Twelve (12) of Block "C"; Lots Thirteen (13), Fourteen (14), Fifteen (15) and Sixteen (16) less railroad right of way and less the East 30 feet of Lot Sixteen (16) of Block "C";

These portions of Lots One (1), Two (2), Three (3), Four (4) and Five (5) of Block "C" and that portion of Block Seventy-one (71) bounded by a line described as beginning at the Northeasterly corner of Lot 5; thence South 62°13' West along the Southeasterly line of Water Street 205.4 feet; thence South 48°57' West along said line of Water Street 210 feet; thence South 41°03' East 245 feet to a point in the Northerly right-of-way line of the Chicago and North Western Railway; thence North 77°08' East 397 feet to a point on the Northeasterly line of Lot 5; thence Northwesterly along the Northeasterly line of Lot 5 to the place of beginning, all in the City of Appleton, Outagamie County, Wisconsin, according to the recorded Assessors Map of Said City.

"I certify that the attached legal description is, to the best of my knowledge, complete and accurate."

James Raabe
Manager-Property Management
Wisconsin Electric Power Company d/b/a We
Energies

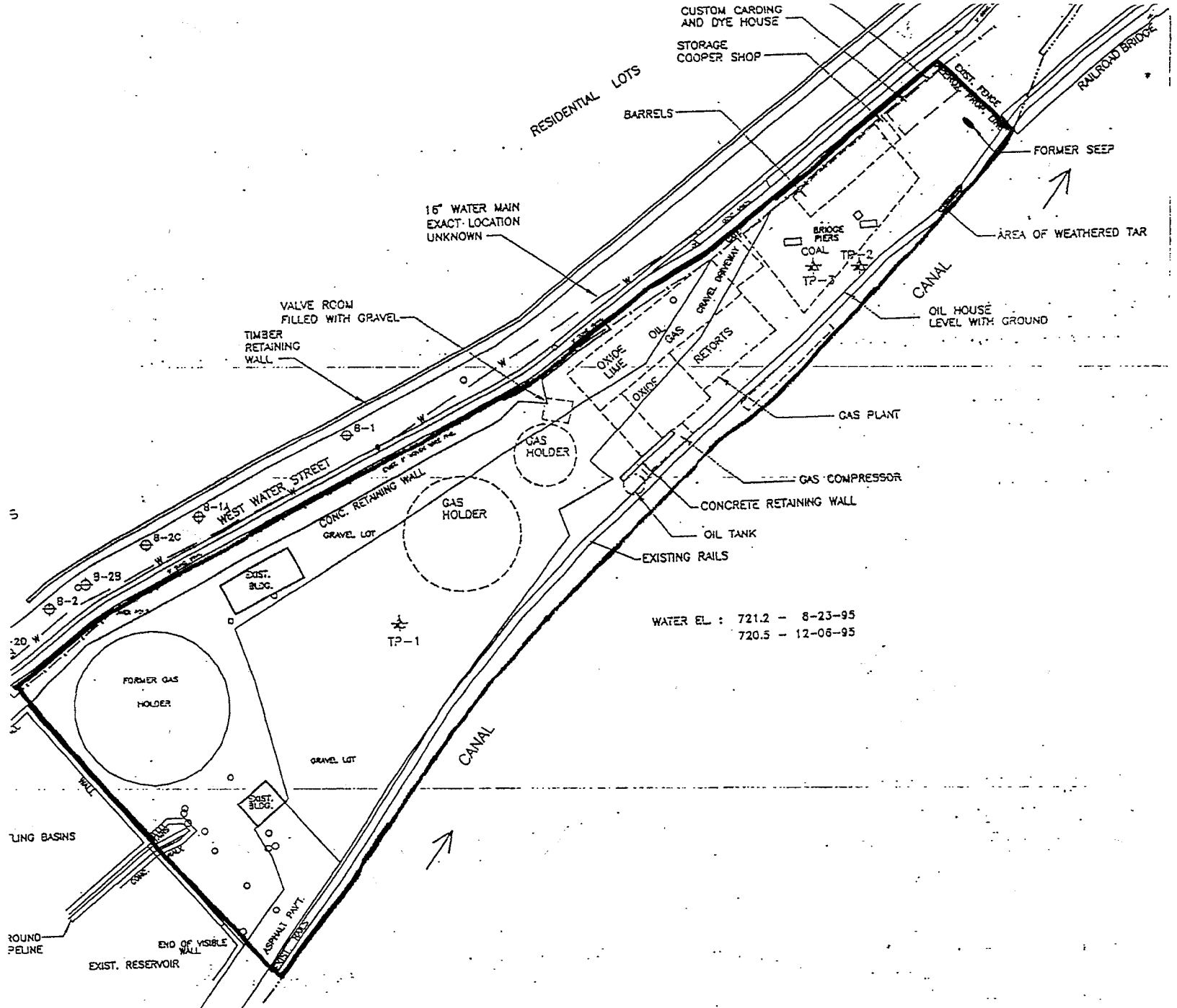
Date



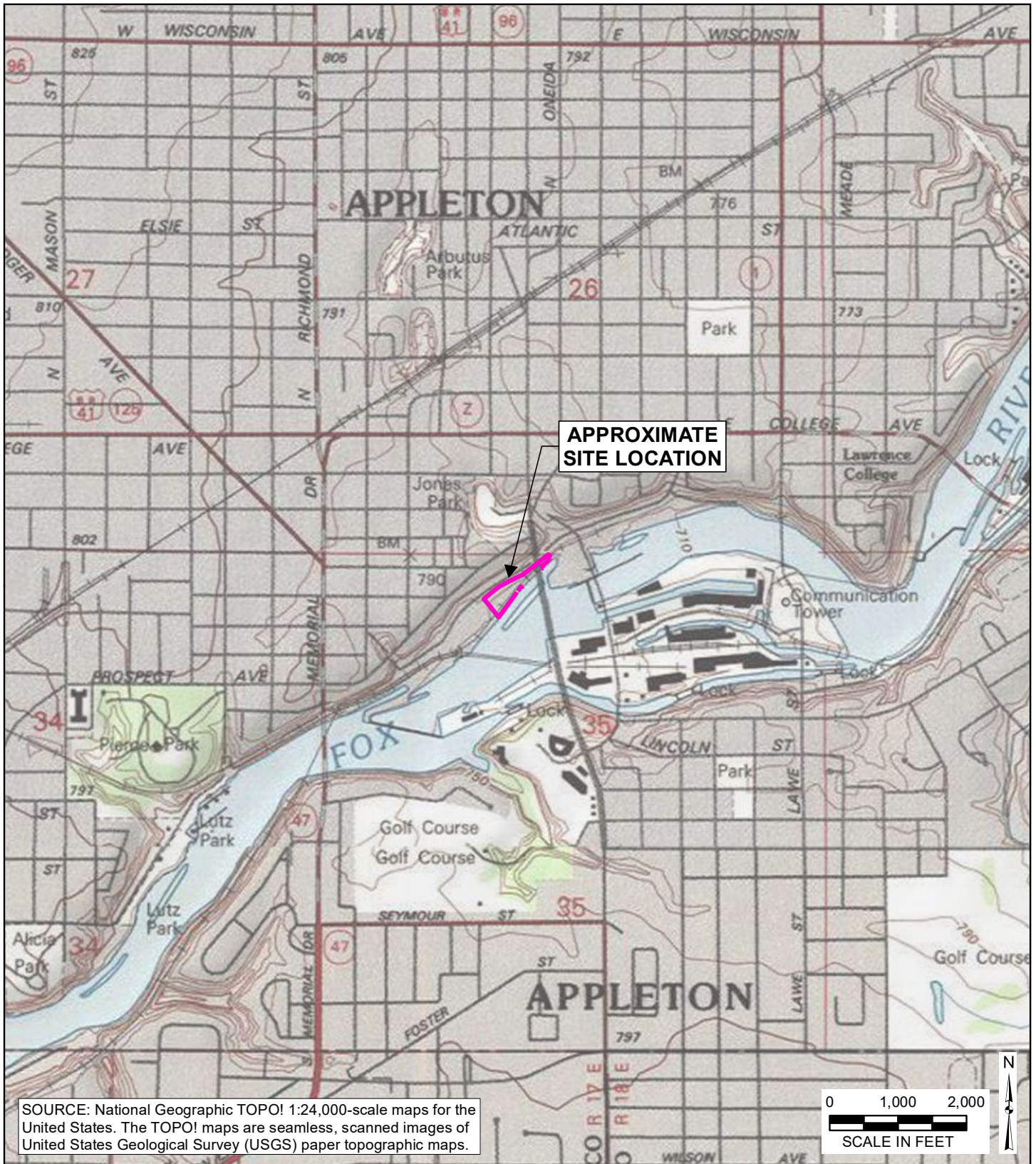
Site Plan

27

EXHIBIT A

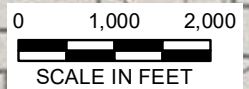


APPENDIX B FIGURES



**APPROXIMATE
SITE LOCATION**

SOURCE: National Geographic TOPO! 1:24,000-scale maps for the United States. The TOPO! maps are seamless, scanned images of United States Geological Survey (USGS) paper topographic maps.



SITE LOCATION MAP

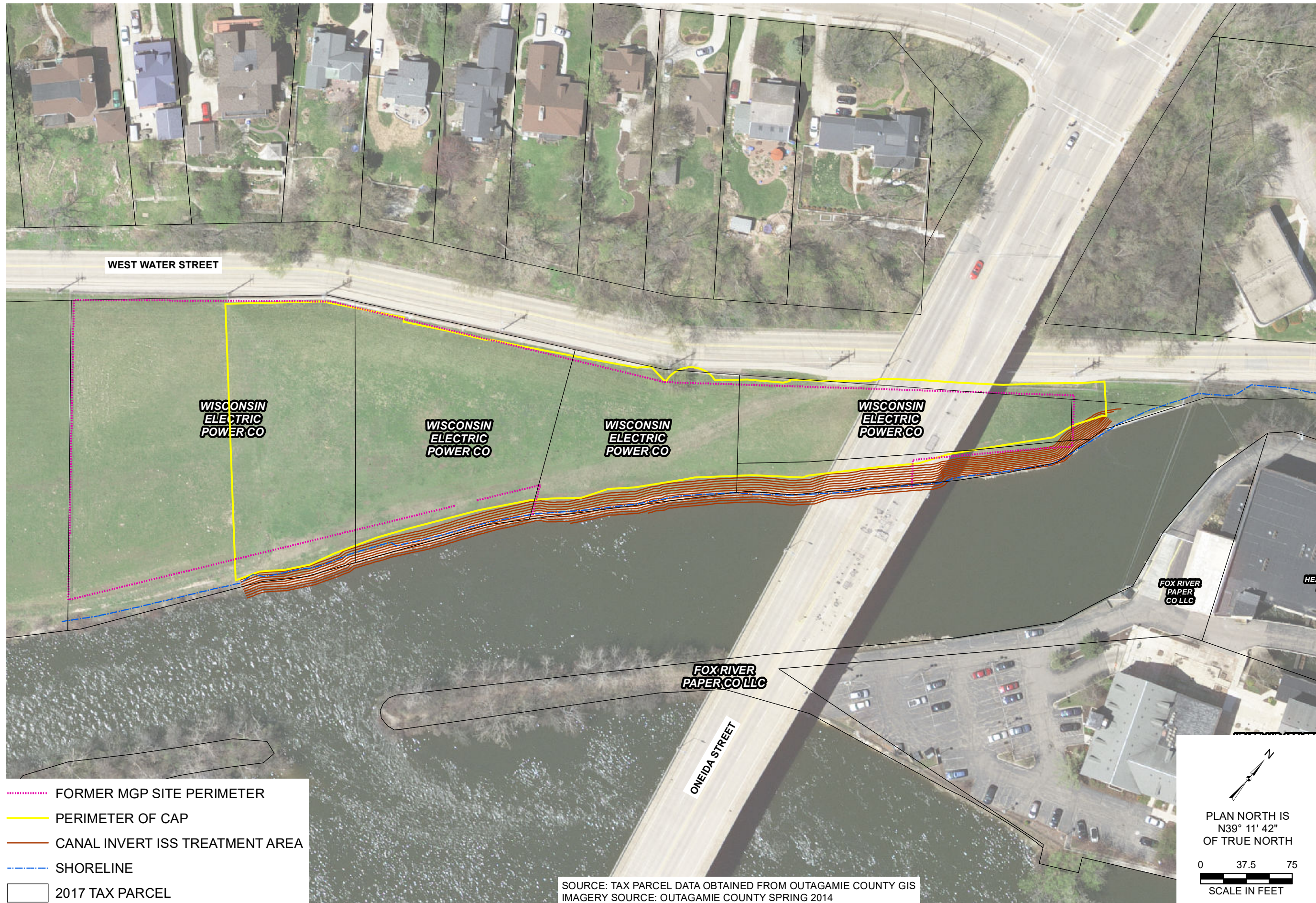
DIRECT CONTACT BARRIER MAINTENANCE
AND MATERIALS MANAGEMENT PLAN
FORMER APPLETON MAUNUFACTURED
GAS PLANT (MGP) FACILITY
WE ENERGIES
APPLETON, WISCONSIN



PROJECT NO. 1508
FIGURE NO. 1

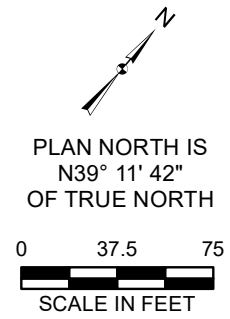
DRAWN BY: SDS 10/6/17
REVIEWED BY: KRM 10/6/17
APPROVED BY: BGH 10/___/17

Y:\GIS\Projects\151508MXD\DCB_MaM_MPIR\Logo\Figure 2_Site_Vicinity.mxd_Author: STOLZSD; Date/Time: 10/30/2019, 5:20:54 PM



- ⋯⋯⋯ FORMER MGP SITE PERIMETER
- PERIMETER OF CAP
- CANAL INVERT ISS TREATMENT AREA
- - - SHORELINE
- 2017 TAX PARCEL

SOURCE: TAX PARCEL DATA OBTAINED FROM OUTAGAMIE COUNTY GIS
IMAGERY SOURCE: OUTAGAMIE COUNTY SPRING 2014



DRAWN BY/DATE:
SDS 10/6/17
REVIEWED BY/DATE:
KFM 10/6/17
APPROVED BY/DATE:
BGH 10/___/17

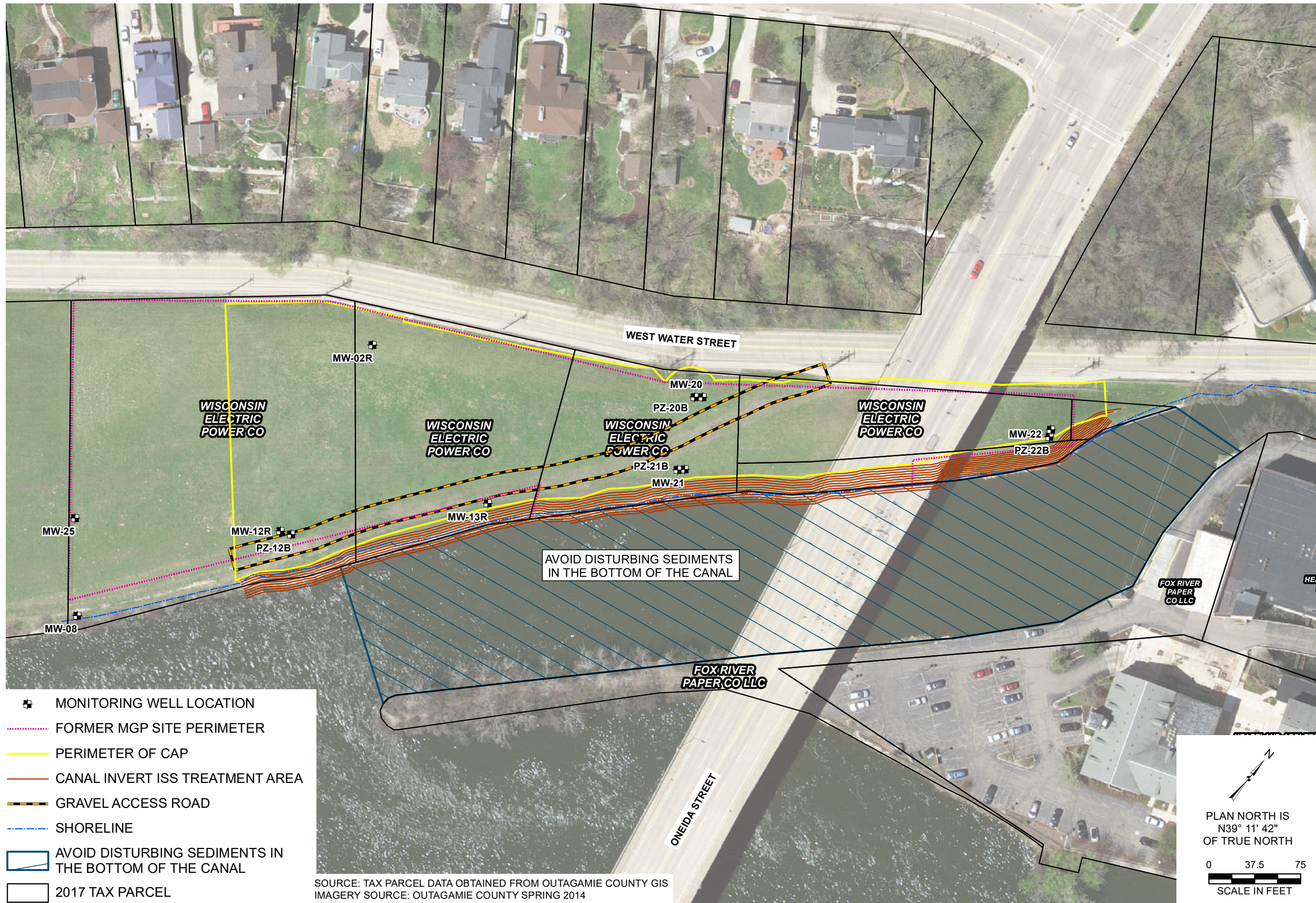
SITE VICINITY









DIRECT CONTACT BARRIER MAINTENANCE
AND MATERIALS MANAGEMENT PLAN
FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY
WE ENERGIES
APPLETON, WISCONSIN

PROJECT NO: 1508
FIGURE NO: 2

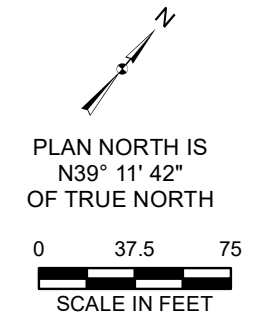


Y:\GIS\Projects\151508\MXD\DCB_MaM_MPR\Logo\Figure 3_Extent of Resid Contam and Cap Main Areas.mxd_Author: STOLZSD; Date/Time: 10/30/2019, 5:19:06 PM



-  MONITORING WELL LOCATION
-  FORMER MGP SITE PERIMETER
-  PERIMETER OF CAP
-  CANAL INVERT ISS TREATMENT AREA
-  GRAVEL ACCESS ROAD
-  SHORELINE
-  AVOID DISTURBING SEDIMENTS IN THE BOTTOM OF THE CANAL
-  2017 TAX PARCEL

SOURCE: TAX PARCEL DATA OBTAINED FROM OUTAGAMIE COUNTY GIS
 IMAGERY SOURCE: OUTAGAMIE COUNTY SPRING 2014



**EXTENT OF RESIDUAL CONTAMINATION
AND CAP MAINTENANCE AREAS**

DIRECT CONTACT BARRIER MAINTENANCE
AND MATERIALS MANAGEMENT PLAN
FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY
WE ENERGIES
APPLETON, WISCONSIN

DRAWN BY/DATE:
SDS 10/6/17
REVIEWED BY/DATE:
KFM 10/6/17
APPROVED BY/DATE:
BGH 10/___/17

PROJECT NO: 1508

FIGURE NO: 3



APPENDIX C CONSTRUCTION DOCUMENTATION REPORT INFORMATION

Table 9 - Post-treatment Soil Analytical Results
Phase I Remedial Construction Documentation Report
Former Appleton MGP Site - We Energies

Sample ID	Date	Volatile Organic Compounds (VOCs) µg/kg					Polynuclear Aromatic Hydrocarbons (PAHs) µg/kg																			%	Inorganics (mg/kg)		Pass/Fail	
		Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene [c]	Benzo(a)pyrene [c]	Benzo(b)fluoranthene [c]	Benzo(ghi)perylene	Benzo(k)fluoranthene [c]	Chrysene [c]	Dibenz(a,h)anthracene [c]	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene [c]	Naphthalene	Phenanthrene	Pyrene	Total PAHs		Total cPAHs	Total Solids		Lead
PST-01	9/5/2003	<25	<25	<25	<50	nd	<79*	<85*	<120	<200	<120	<68	<68	<73	<140	<100	<78	<84	<90	<68	<120	<85	<90	<150	nd	nd	88.6	75	0.18 Q	Pass
PST-02	9/6/2003	<25	<25	<25	<50	nd	<80*	<85*	<130	<200	<130	<68	<68	<74	<140	<100	<78	<84	<91	<68	<130	120 Q	<91	<150	120	nd	87.9	83	0.23 Q	Pass
PST-03	9/7/2003	<25	<25	<25	<50	nd	<79*	<85*	<120	<200	<120	<68	<68	<74	<140	<100	<78	<84	<91	<68	<120	<85	<91	<150	nd	nd	88.3	89	0.28 Q	Pass
PST-04	9/8/2003	<25	<25	<25	<50	nd	<7.7*	<8.2*	<12	<20	<12	<6.6	<6.6	<7.1	<13	<9.9	<7.6	<8.1	<8.8	<6.6	<12	59	14 Q	<14	73	nd	91.2	430	0.43	Pass
PST-05	9/9/2003	<25	<25	<25	<50	nd	<80	<86	<130	<210	<130	<69	<69	<75	<140	<100	<79	<85	<92	<69	<130	<86	<92	<150	nd	nd	87.2	120	0.33 Q,N	Pass
PST-06	9/10/2003	<25	<25	<25	<50	nd	<8.2	<8.8	<13	<21	<13	<7.0	<7.0	<7.6	<14	<11	<8.1	<8.6	<9.3	<7.0	<13	47	<9.3	<15	47	nd	85.7	160	0.33 Q	Pass
PST-07	9/10/2003	<25	<25	<25	<50	nd	<82	<88	<130	<210	<130	<71	<71	<77	<140	<110	<81	<87	<94	<71	<130	150 Q	<94	<150	150	nd	87.4	180	0.15 Q	Pass
PST-08	9/12/2003	<25	<25	<25	<50	nd	<81	<87	<130	<210	<130	<69	<69	<75	<140	<100	<80	<85	<92	<69	<130	<87	<92	<150	nd	nd	86.6	130	0.20 Q	Pass
PST-09	9/14/2003	<25	<25	<25	<50	nd	16 Q	17 Q	<13	<21	<13	<7.0	<7.0	<7.6	<14	<11	<8.1	<8.6	<9.3	<7.0	<13	66	12 Q	<15	111	nd	85.7	180	0.16 Q	Pass
PST-10	9/16/2003	130	<25	<25	<50	130	<8.1 *	<8.7*	<13	<21	<13	8.6 Q	8.0 Q	<7.5	<14	10 Q	12 Q	<8.6	11 Q	<7.0	<13	21 Q	<9.3	<15	70.6	38.6	86.3	130	0.18 Q	Pass
PST-11	9/17/2003	36 Q	<25	<25	<50	36	<79	<85	<120	<200	<120	<68	<68	<73	<140	<100	<78	<84	<90	<68	<120	<85	<90	<150	nd	nd	88.5	81	0.20 Q	Pass
PST-12	9/19/2003	<25	<25	<25	<50	nd	<81	<87	<130	<210	<130	<69	<69	<75	<140	<100	<80	<86	<93	<69	<130	<87	<93	<150	nd	nd	86.4	92	0.59	Pass
PST-13	9/20/2003	<25	<25	<25	<50	nd	<75	<81	<120	<190	<120	<65	<65	<70	<130	<97	<74	<80	<86	<65	<120	<81	<86	<140	nd	nd	93.0	180	0.28 Q	Pass
PST-14	9/21/2003	<25	<25	<25	<50	nd	<82	<88	<130	<210	<130	<70	<70	<76	<140	<110	<81	<86	<93	<70	<130	<88	<93	<150	nd	nd	85.6	94	0.28 Q	Pass
PST-15	9/21/2003	<25	<25	<25	<50	nd	<79	<85	<120	<200	<120	<68	<68	<73	<140	<100	<78	<84	<90	<68	<120	<85	<90	<150	nd	nd	88.6	110	0.25 Q	Pass
PST-16	9/29/2003	<25	<25	<25	<50	nd	<83	<89	<130	<210	<130	<71	<71	<77	<140	<110	<81	<87	<94	<71	<130	<89	<94	<150	nd	nd	84.7	68	0.15 Q	Pass
PST-17	09/29//03	<25	<25	<25	<50	nd	<80	<86	<130	<210	<130	<69	<69	<74	<140	<100	<79	<85	<92	<69	<130	<86	<92	<150	nd	nd	87.4	79	0.18 Q,N	Pass
PST-18	9/30/2003	<25	<25	<25	<50	nd	<81	<87	<130	<210	<130	<70	<70	<76	<140	<100	<80	<86	<93	<70	<130	<87	<93	<150	nd	nd	86.0	110	0.16 Q	Pass
PST-19	9/30/2003	<25	<25	<25	<50	nd	<82	<88	<130	<210	<130	<70	<70	<76	<140	<110	<81	<86	<93	<70	<130	<88	<93	<150	nd	nd	85.7	95	0.17 Q,N	Pass
PST-20	9/30/2003	42 Q	<25	<25	<50	42	<79	<84	<120	<200	<120	<67	<67	<73	<130	<100	<77	<83	<90	<67	<120	<84	<90	<150	nd	nd	89.1	180	0.46	Pass
PST-21	10/1/2003	<25	<25	<25	<50	nd	<78	<83	<120	<200	<120	<67	<67	<72	<130	<100	<77	<82	<89	<67	<120	<83	<89	<140	nd	nd	89.8	180	0.24 Q	Pass
PST-22	10/2/2003	74	<25	<25	<50	74	<76	<81	<120	<190	<120	<65	<65	<70	<130	<97	<75	<80	<86	<65	<120	<81	<86	<140	nd	nd	92.6	130	0.21 Q	Pass
PST-23	10/5/2003	42 Q	<25	<25	<50	42	<77	<82	<120	<200	<120	<66	<66	<71	<130	<98	<75	<81	<87	<66	<120	<82	<87	<140	nd	nd	91.5	78	0.24 Q	Pass
PST-24	10/7/2003	46 Q	<25	<25	<50	46	<75	<80	<120	<190	<120	<64	<64	<69	<130	<96	<73	<79	<85	<64	<120	<80	<85	<140	nd	nd	93.9	84	0.24 Q	Pass
PST-25	10/14/2003	40 Q	<25	49	<50	89	<82	<88	<130	<210	<130	<71	<71	<77	<140	<110	<81	<87	<94	<71	<130	<88	<94	<150	nd	nd	85.0	110	0.21 Q	Pass
PST-26	10/14/2003	34 Q	<25	48	<50	82	<83	<89	<130	<210	<130	<71	<71	<77	<140	<110	<82	<88	110 Q	<71	<130	<89	<95	<150	110	nd	84.4	260	0.21 Q	Pass
PST-27	10/16/2003	84	<25	<25	<50	84	<79	<84	<120	<200	<120	<68	<68	<73	<140	<100	86 Q	<83	150 Q	<68	<120	220 Q	250 Q	<150	706	86	88.8	250	0.19 Q	Pass
PST-28	10/16/2003	83	<25	38 Q	<50	121	<86	<92	<130	<220	<130	<74	<74	<80	<150	<110	<85	<91	<98	<74	<130	<92	<98	<160	nd	nd	81.5	160	0.39 Q	Pass
PST-29	10/17/2003	<25	<25	<25	<50	nd	<8.6	<9.2	<14	<22	<14	<7.4	<7.4	<8	<15	<11	<8.5	<9.1	<9.8	<7.4	<14	18 Q	<9.8	<16	18	nd	81.4	290	0.9	Pass
Treatment Standards¹		500	2,900	1,500	4,100	ns	ns	ns	ns	700	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	400	1,800	ns	50,000	10,000	--	ns	50	--

Table 9 - Post-treatment Soil Analytical Results
Phase I Remedial Construction Documentation Report
Former Appleton MGP Site - We Energies

Sample ID	Date	Volatile Organic Compounds (VOCs) µg/kg					Polynuclear Aromatic Hydrocarbons (PAHs) µg/kg																				%	Inorganics (mg/kg)		Pass/Fail
		Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene [c]	Benzo(a)pyrene [c]	Benzo(b)fluoranthene [c]	Benzo(ghi)perylene	Benzo(k)fluoranthene [c]	Chrysene [c]	Dibenz(a,h)anthracene [c]	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene [c]	Naphthalene	Phenanthrene	Pyrene	Total PAHs	Total cPAHs		Total Solids	Lead	
PST-30	10/20/2003	65 Q	<25	<25	<50	65	13 Q	16 Q	<13	<20	<13	18 Q	15 Q	21 Q	<14	20 Q	24 Q	<8.4	34	<6.8	<13	93	25 Q	30 Q	309	98	87.8	140	0.12 Q	Pass
PST-31	10/20/2003	47 Q	<25	<25	<50	47	<8.2	<8.8	<13	<21	<13	<7	<7	<7.6	<14	<11	<8.1	<8.7	<9.4	<7	<13	28 Q	<9.4	<15	28	28	85.3	270	0.74	Pass
PST-32	10/20/2003	<25	<25	<25	<50	nd	<7.9	9.8 Q	<12	<20	<12	<6.8	<6.8	<7.4	<14	<10	<7.8	<8.4	<9.1	<6.8	<12	34	14 Q	<15	58	nd	88.4	200	0.3 Q	Pass
PST-33	10/23/2003	58 Q	<25	<25	<50	58	<82	<88	<130	<210	<130	<70	<70	<76	<140	<110	<81	<87	<94	<70	<130	120 Q	<94	<150	120	nd	85.4	230	0.55	Pass
PST-34	10/24/2003	<25	<25	<25	<50	nd	<84	<90	<130	<220	<130	<72	<72	<78	<140	<110	<83	<89	<96	<72	<130	<90	<96	<160	nd	nd	83.2	290	<0.13	Pass
PST-35	10/27/2003	<25	<25	<25	<50	nd	49	82	<13	<21	<13	24	20 Q	16 Q	<14	21 Q	27	<8.5	24 Q	12 Q	<13	250 Q	34	27 Q	586	108	86.9	250	0.38 Q	Pass
PST-36	10/27/2003	<25	<25	<25	<50	nd	<79	<85	<120	<200	<120	<68	<68	<74	<140	<100	<78	<84	91*	<68	<120	120 Q	<91	<150	211	nd	88.2	260	<0.12	Pass
PST-37	10/27/2003	<25	<25	<25	<50	nd	<82	<87	<130	<210	<130	<70	<70	<76	<140	<100	<80	<86	<93	<70	<130	210 Q	<93	<150	210	nd	85.8	260	<0.12	Pass
PST-38	10/27/2003	<25	<25	<25	<50	nd	<84	<90	<130	<220	<130	<72	<72	<78	<140	<110	<83	<89	<96	<72	<130	99 Q	<96	<160	99	nd	83.3	230	<0.13	Pass
PST-39	11/13/2003	72	<25	<25	<50	72	<78	<83	<120	<200	<120	<66	<66	<72	<130	<100	<76	<82	<89	<66	<120	190 Q	200 Q	<140	390	nd	90.3	170	0.31 Q	Pass
PST-40R	11/18/2003	<25	<25	<25	<50	nd	<79	<85	<120	<200	<120	<68	<68	<74	<140	<100	<78	<84	<91	<68	<120	<85	<91	<150	nd	nd	88.1	230	0.39 Q	Pass
PST-40R-2	11/20/2003	<25	<25	<25	<50	nd	<77	<83	<120	<200	<120	<66	<66	<72	<130	<99	<76	<82	<88	<66	<120	<83	<88	<140	nd	nd	90.6	150	0.34 Q	Pass
PST-41R	11/19/2003	<25	<25	<25	<50	nd	<80	<86	<130	<210	<130	<69	<69	<75	<140	<100	<79	<85	<92	<69	<130	<86	<92	<150	nd	nd	87.2	240	0.42 Q	Pass
PST-42R	11/20/2003	<25	<25	<25	<50	nd	<79	<85	<120	<200	<120	<68	<68	<74	<140	<100	<78	<84	<91	<68	<120	<85	<91	<150	nd	nd	88.1	170	0.43	Pass
PST-43R	11/21/2003	<25	<25	<25	<50	nd	<70	<75N	<110	<180	<110*	<60*N	<60*N	<65N	<120*	<90*	<69	<74*	<80*	<60N	<110*	<75	<80*N	<130*	nd	nd	87.3	200	0.36 Q	Pass
PST-44	11/17/2003	56	<25	<25	<50	56	<80	<85	<130	<200	<130	<68	<68	<74	<140	<100	<79	<84	<91	<68	<130	310	<91	<150	310	nd	87.9	140	0.25	Pass
Average concentration		61	nd	45	nd	70	26	31	nd	nd	nd	17	14	19	nd	17	37	nd	70	12	nd	120	57	29	196	72	87	170	0.31	---
PST-40 ³	11/13/2003	81	<25	<25	<50	81	<81	<87	<130	<210	<130	<70	<70	<76	<140	<100	140 Q	<86	310	<70	<130	<u>530</u>	780	210 Q	1,660	140	86.0	140	0.51	Fail
PST-41 ³	11/14/2003	73	<25	<25	<50	73	<84	<90	<130*	<220*	160 Q	<72	<72	<78	<140	<110	<83	<89	<96	<72	<130	<u>440</u>	170 Q	<160	770	nd	83.2	na	na	Fail
PST-42 ³	11/17/2003	120	<25	<25	<50	120	<82	<88	<130	<210	<130	<70	<70	<76	<140	<100	<81	<87	<94	<70	<130	<u>420</u>	240 Q	<150	660	nd	85.2	na	na	Fail
PST-43 ³	11/17/2003	41	<25	<25	<50	41	<82	<88	<130	<210	<130	<70	<70	<76	<140	<110	<81	<86	<93	<70	<130	<u>420</u>	99 Q	<150	519	nd	85.7	na	na	Fail
Treatment Standards ¹		<u>400</u>	<u>2,900</u>	<u>1,500</u>	<u>4,100</u>	ns	ns	ns	ns	<u>700</u>	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<u>400</u>	<u>1,800</u>	ns	<u>50,000</u>	<u>10,000</u>	--	ns	<u>50</u>	--

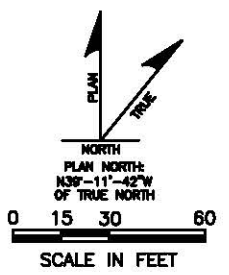
(O-JMK 10/18/03, C-MJR/CAR 10/20/03, C-GRL 10/24/03 HMS/GRL 1/8/04, U-PAR 1/04, C-CAR 1/04, R-CAR 6/04)

Notes:

- ns = No standard
- [c] = Carcinogenic PAH, classified as B2 probable human carcinogen
- cPAHs = Carcinogenic PAHs
- na = Not analyzed
- nd = Not detected
- * = Precision not within control limits
- N = Spiked sample recovery not within control limits

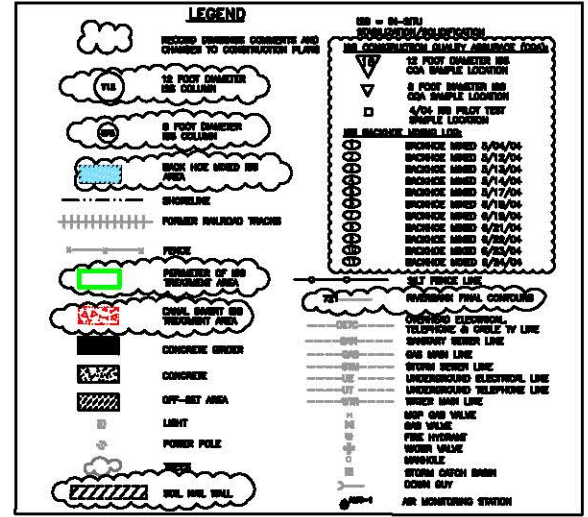
- Q = The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ).
- mg/kg = milligrams per kilogram
- µg/kg = micrograms per kilogram

1. Treatment Standards based on the Remedial Design Report Treatment Performance Criteria
2. Concentrations which attain or exceed a treatment standard criterion are highlighted in **bold and underlined**.
3. Post Treatment samples PST-40, 41, 42 and 43 are not included in average concentrations as these thermal treatment piles were retreated (PST-40R, 41R, 42R and 43R).



EXTENT OF ISS AT CANAL INVERT

PERIMETER OF ISS TREATMENT AREA



SURVEY NOTES:
 1. BENCHMARK 1: NAIL IN POWER POLE 771-3183 LOCATED ALONG THE SOUTHEASTERLY RIGHT OF WAY LINE OF WATER STREET NEAR THE NORTHWEST PROPERTY CORNER. ELEVATION = 734.88 (CITY DATUM).
 2. BENCHMARK 2: NAIL IN POWER POLE 771-3184 LOCATED ALONG THE SOUTHEASTERLY RIGHT OF WAY LINE OF WATER STREET NEAR ENTRANCE. ELEVATION = 736.00 (CITY DATUM).
 3. SUBJECT PROPERTY IS ZONED M-2 & PD/C2 GENERAL INDUSTRIAL DISTRICT & PLANNED DEVELOPMENT OVERLAY DISTRICT/GENERAL COMMERCIAL DISTRICT.
 4. CURB ELEVATIONS SHOWN ARE TOP OF CURB, SUBTRACT 0.5' TO OBTAIN GUTTER ELEVATIONS UNLESS NOTED OTHERWISE.

SOURCE NOTES:
 1. THIS DRAWING WAS DEVELOPED FROM A SURVEY BY CARLOW LAND SURVEYING CO., INC., APPLETON, WISCONSIN, PROJECT NO. C0111.11, DATED 11-30-01, REVISIONS, DECEMBER 2001, FEBRUARY 2002, AUGUST 2002 AND SEPTEMBER 2002, DIGITAL FILE NUMBER: 100. REVISION RECEIVED FROM CARLOW 2-15-02.
 2. PORTIONS OF THIS DRAWING WERE DEVELOPED FROM A DRAWING BY STS CONSULTANTS LTD., PROJECT NO. 8470388, PROJECT FILE C02003, FIGURE NO. 2, DATED 2-4-02.
 3. ISLAND-PENINSULA LOCATIONS DEVELOPED FROM TOPOGRAPHIC MAP BY AERO-METRIC, INC., SHERBOYCH, WISCONSIN, PROJECT NO. 1981109, DATE OF PHOTOGRAPHY: 11-8-99.
 4. SURVEYS FROM WATKINSON-EBEL JANUARY 2004, 157058KTR04L09, 157058KTR04L09, 157058KTR04L09.
 5. RECORD ISS COLUMN DRAWING FROM WILLIAMS ENVIRONMENTAL SERVICES, INC., DIGITAL FILE DATED AUGUST 2, 2004.

ISS CONSTRUCTION NOTES:
 1. PERIMETER OF ISS TREATMENT AREA (SHOWN ON 04/02/04) 2. HEAVY EQUIPMENT SHALL NOT CONDUCT WORK ABOVE REMEDIATION STRUCTURE.
 3. OVERHEAD CLEARANCE BELOW THE SKYLINE BRIDGE CORRIDOR IS A MINIMUM OF 43 FT. EXCEPT IN THE SHADDED AREAS BELOW THE CONCRETE ORDER SUPPORT, OVERHEAD CLEARANCE IN THIS AREA IS A MINIMUM OF 30 FT.
 4. MIX DESIGN 6 OR 70 IS REQUIRED IN AREAS WITH IN 10 FEET OF THE FACE OF EXISTING INACTIVE WATER TREATMENT PLANT STRUCTURES, WITHIN 10 FEET OF THE EXISTING CONCRETE CURB RETAINING WALL, AND WITHIN 10 FEET OF THE SOIL NAIL WALL. MIX DESIGN 6 OR 70 IS ALSO REQUIRED FOR A CONTINUOUS SINGLE ROW OF ISS COLUMNS ALONG THE FOX RIVER CANAL, ADJACENT TO THE 4'-FOOT OFFSET AREA SURROUNDING THE PILE CAPS OF THE SKYLINE BRIDGE PIER-10, AND PERIMETER AREAS OF THE MGP SITE WHERE NOT OTHERWISE SPECIFIED. SEE SHEET NO. C092 FOR SPECIFIC LAYOUT OF MIX DESIGNS 6 AND 70.
 5. RECORD ISS COLUMN LAYOUT AND NOMENCLATURE PROVIDED BY WILLIAMS ENVIRONMENTAL SERVICES, AUGUST 2, 2004, SECOND LAYOUT ACCEPTED BY THE ENGINEER AND THE ENGINEER.
 6. THE COLORS OF A GROUP OF ISS COLUMNS INDICATES THEIR DATE OF CONSTRUCTION. FOR EXAMPLE, ISS COLUMNS S14, T14, U14 AND V14 WERE CONSTRUCTED ON 04/22/04.

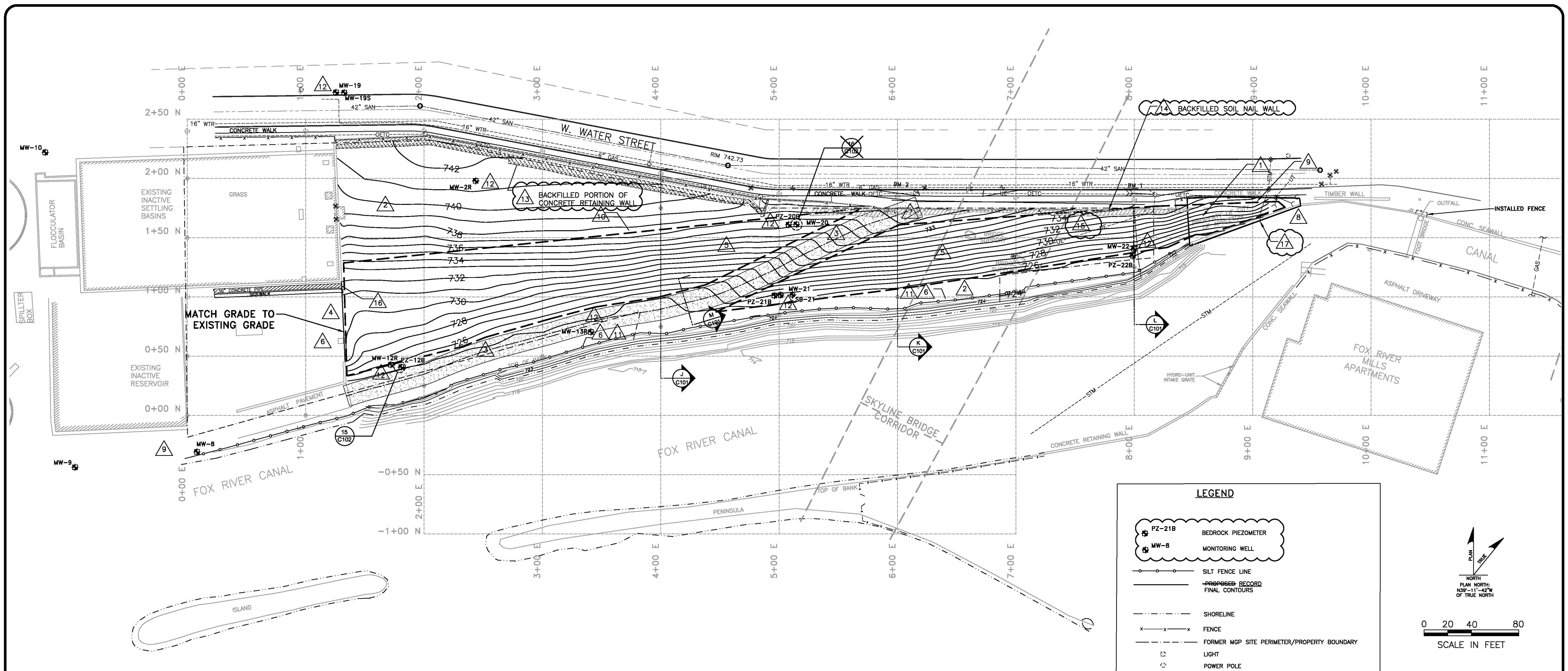
8.			
5.			
4.			
3.			
2.			
1.	ISSUED FOR RECORD DRAWINGS PHASE II	12/16/04	CAR
0.	ISSUED FOR CONSTRUCTION PHASE II	04/02/04	CAR
REVISION:		DATE:	APP'D BY:



PHASE II - ISS COLUMN LAYOUT
 REMEDIATION CONSTRUCTION
 FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY
 WE ENERGIES
 CITY OF APPLETON, WISCONSIN

PROJECT NO. 1508
 DRAWN BY: TAS 03/23/04
 CHECKED BY: GRL
 APPROVED BY: CAR 04/02/04
 SHEET NO. C093

CAD FILE: 1508\RECORD DRAWINGS\1508C093-01C.DWG
 REFERENCE FILES:



SURVEY NOTES:

- BENCHMARK 1: NAIL IN POWER POLE #71-3183 LOCATED ALONG THE SOUTHEASTERLY RIGHT OF WAY LINE OF WATER STREET NEAR THE NORTHWEST PROPERTY CORNER, ELEVATION = 734.68 (CITY DATUM).
- BENCHMARK 2: NAIL IN POWER POLE #71-3184 LOCATED ALONG THE SOUTHEASTERLY RIGHT OF LINE OF WATER STREET NEAR ENTRANCE, ELEVATION = 739.80 (CITY DATUM).
- SUBJECT PROPERTY IS ZONED M-2 & PD/C2: GENERAL INDUSTRIAL DISTRICT & PLANNED DEVELOPMENT OVERLAY DISTRICT/GENERAL COMMERCIAL DISTRICT.
- CURB ELEVATIONS SHOWN ARE TOP OF CURB, SUBTRACT 0.5'± TO OBTAIN GUTTER ELEVATIONS UNLESS NOTED OTHERWISE.

SOURCE NOTE:

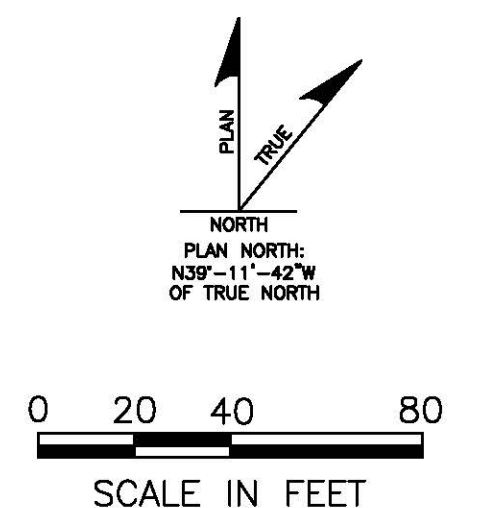
- THIS DRAWING WAS DEVELOPED FROM A SURVEY BY CAROW LAND SURVEYING CO., INC., APPLETON, WISCONSIN, PROJECT NO. C0111.11, DATED 11-30-01, REVISIONS, DECEMBER 2001, FEBRUARY 2002, AUGUST 2002 AND SEPTEMBER 2002, DIGITAL FILE NEWATER.DWG, REVISION RECEIVED FROM CAROW 8-15-02.
- PORTIONS OF THIS DRAWING WERE DEVELOPED FROM A DRAWING BY STS CONSULTANTS LTD, PROJECT NO. 84703XB, PROJECT FILE GS2003, FIGURE NO. 2, DATED 8-9-98.
- ISLAND-PENINSULA LOCATIONS DEVELOPED FROM TOPOGRAPHIC MAP BY AERO-METRIC, INC., SHEBOYGAN, WISCONSIN, PROJECT NO.1991109, DATE OF PHOTOGRAPHY: 11-9-99.
- SURVEYS FROM MARTENSON-EISELE JANUARY 2004, 157558INTGRD.DWG, 157558RVFIN.DWG, 157558RVSUB.DWG.
- RECORD MONITORING WELL LOCATIONS, GRAVEL ROAD ALIGNMENT AND FINAL GRADES FROM SURVEYS BY WILLIAMS ENVIRONMENTAL SERVICES, INC., DIGITAL FILES DATED OCTOBER 5, 2004.

EARTHWORK CONTRACTOR NOTES:

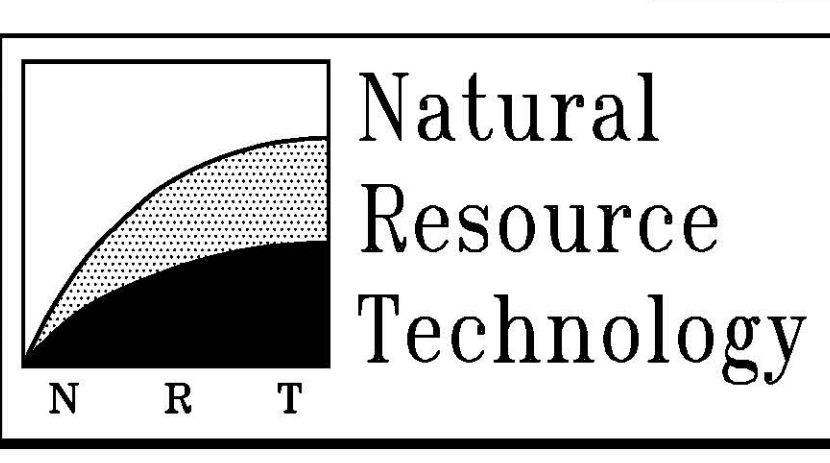
- BACKFILL THE SURFICIAL EXCAVATED AREA WITH CLEAN FILL, LAST 2 FEET OF BACKFILL SHALL CONSIST OF 1.5' OF ROOTING ZONE MATERIAL AND 4 INCHES OF CLEAN TOPSOIL.
- BACKFILL ABOVE ISS SWELL MATERIAL WITH NON-AMENDED AND/OR AMENDED THERMALLY TREATED MATERIAL, LAST FOOT OF BACKFILL SHALL CONSIST OF 8 INCHES ROOTING ZONE MATERIAL AND 4 INCHES OF CLEAN TOPSOIL.
- CONSTRUCT ACCESS DRIVE WITH 1 FOOT OF COMPACTED CRUSHED AGGREGATE BACKFILL ATOP 8 OZ. NON-WOVEN GEOTEXTILE AND FOLLOWED BY A MINIMUM 6 INCHES OF AMENDED THERMALLY TREATED MATERIAL. SEE DETAIL ON SHEET NO. C101.
- HEAVY EQUIPMENT SHALL NOT CONDUCT WORK ABOVE RESERVOIR STRUCTURE.
- BACKFILLED SLOPES SHALL HAVE A MAXIMUM SLOPE OF 4H:1V (25% GRADE).
- SILT FENCE 3: CONTRACTOR SHALL INSTALL WIRE REINFORCED SILT FENCE 3 ALONG TOP OF THE RECONSTRUCTED RIVERBANK (ALSO SHOWN ON SHEET NO. C101) DURING SITE RESTORATION ACTIVITIES. INSTALL TEMPORARY WIRE REINFORCED SILT FENCE ABOVE FORMER RESERVOIR STRUCTURE.
- INSTALL A PERMANENT CHAIN LINK FENCE ALONG PRE-EXISTING FENCE ALIGNMENT. INSTALL A SECURITY GATE AS SHOWN, AT WATER STREET ENTRANCE.
- TEMPORARY CHAIN LINK FENCE SHALL BE REMOVED FOLLOWING SITE RESTORATION ACTIVITIES.
- TEMPORARY GATE SHALL BE REMOVED FOLLOWING SITE RESTORATION ACTIVITIES.
- INSTALL EROSION CONTROL MATTING ON SLOPES GREATER THAN 4H:1V IN ACCORDANCE TO WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED FOLLOWING ESTABLISHMENT AND MAINTENANCE OF GRASS AS DESCRIBED IN SECTION 029356.
- REPLACE AND INSTALL MONITORING WELLS AS INDICATED ON WELL CONSTRUCTION TABLE ON SHEET NO. C102 IN ACCORDANCE TO NR 141. SEE DETAIL ON SHEET NO. C102.
- PORTIONS OF THE CONCRETE RETAINING WALL BURIED DURING BACKFILL ACTIVITIES ARE INDICATED WITH DASHED LINES.
- RECORD LOCATION OF SOIL NAIL WALL BURIED IN-PLACE DURING BACKFILL ACTIVITIES. REFERENCE SHEET NO. S020 IN THE PHASE I REMEDIAL CONSTRUCTION DOCUMENTATION REPORT FOR ADDITIONAL DETAILS OF RECORD SOIL NAIL WALL CONSTRUCTION.
- UNDERGROUND ELECTRICAL SERVICE RESTORED TO SKYLINE BRIDGE.
- 36" CONCRETE PIPE CAPPED WITH BRICK AND CONCRETE.
- CITY OF APPLETON STORM SEWER EXTENDED TO DRAIN DIRECTLY TO THE FOX RIVER CANAL.

LEGEND

- PZ-21B: BEDROCK PIEZOMETER
- MW-8: MONITORING WELL
- SILT FENCE LINE
- PROPOSED RECORD FINAL CONTOURS
- SHORELINE
- FENCE
- FORMER MGP SITE PERIMETER/PROPERTY BOUNDARY
- LIGHT
- POWER POLE
- SOIL NAIL WALL
- EROSION CONTROL MATTING
- SHALLOW BACKFILL AREA
- GRAVEL ACCESS ROAD
- SAN: SANITARY SEWER LINE
- OETC: OVERHEAD ELECTRICAL, TELEPHONE & CABLE TV LINE
- GAS: GAS MAIN LINE
- STM: STORM SEWER LINE
- UE: UNDERGROUND ELECTRICAL LINE
- UT: UNDERGROUND TELEPHONE LINE
- WTR: WATER MAIN LINE
- MGP GAS VALVE
- GAS VALVE
- FIRE HYDRANT
- WATER VALVE
- MANHOLE
- STORM CATCH BASIN
- CONSTRUCTION GRID POINT
- DOWN GUY



6.			
5.	ISSUED FOR RECORD DRAWINGS PHASE II	12/16/04	CAR
4.	REVISED WELL LOCATIONS	08/18/04	CAR
3.	REVISED WELL LOCATIONS	02/19/04	CAR
2.	POST PHASE I REVISED FINAL GRADES	02/13/04	CAR
1.	ISSUED FOR CONSTRUCTION	08/01/03	CAR
0.	ISSUED FOR BID	06/17/03	CAR
REVISION:		DATE:	APP'D BY:

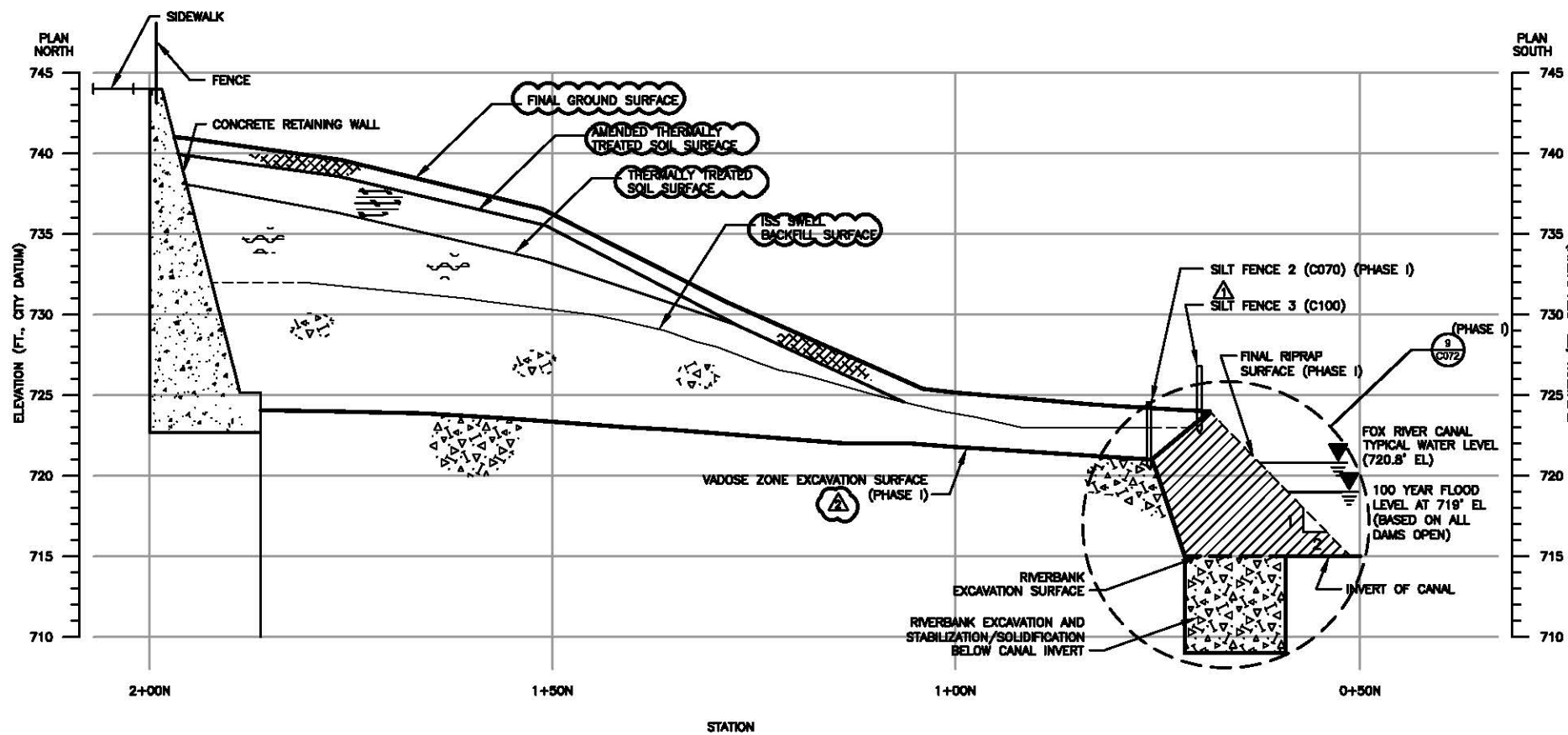


PHASE II-SITE RESTORATION PLAN

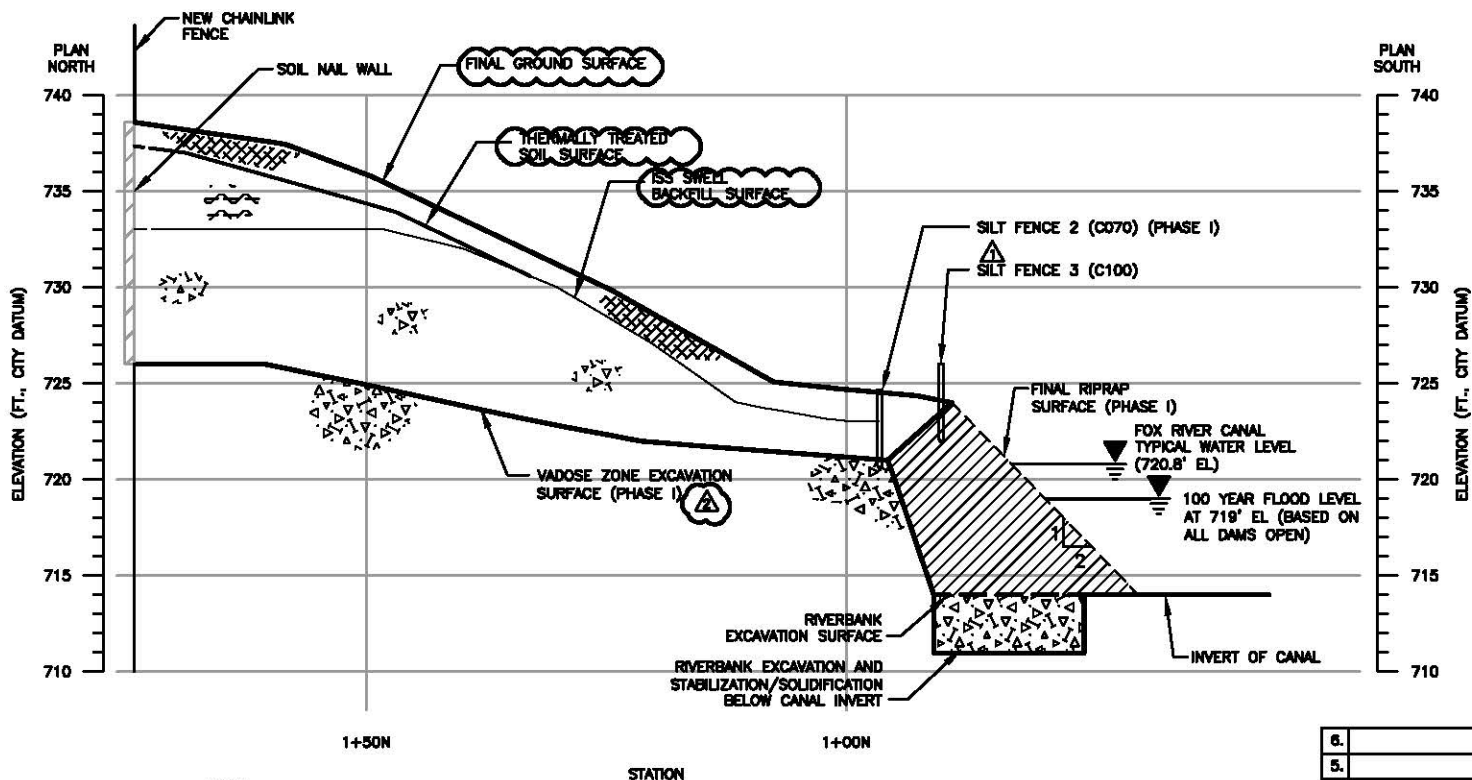
REMEDIAL CONSTRUCTION
FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY
WE ENERGIES
CITY OF APPLETON, WISCONSIN

CAD FILE: 1508/RECORD DRAWINGS/D1508C100-05.DWG
REFERENCE FILES:

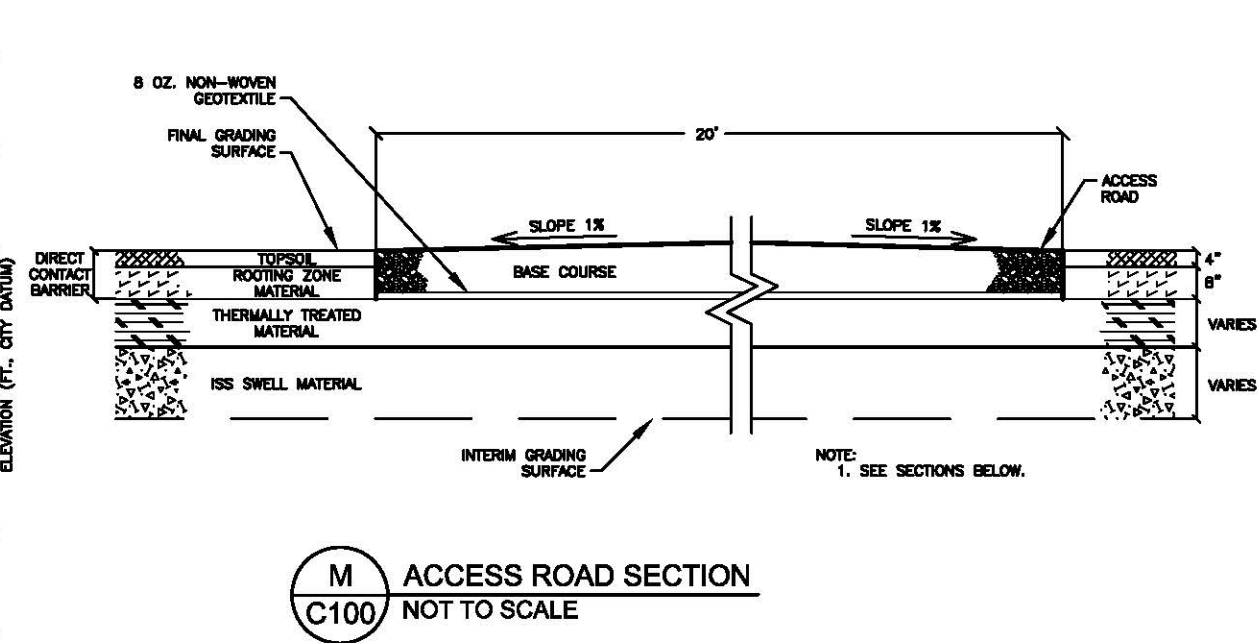
PROJECT NO. 1508
DRAWN BY: TAS 06/17/03
CHECKED BY: HMS 06/17/03
APPROVED BY: CAR 06/17/03
SHEET NO. C100



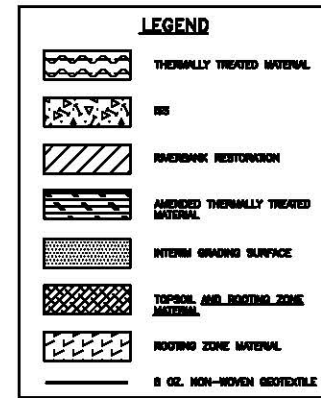
J NORTH-SOUTH CROSS SECTION - STATION 4+00 E
C100 HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=5'
 VERTICAL EXAGGERATION=2



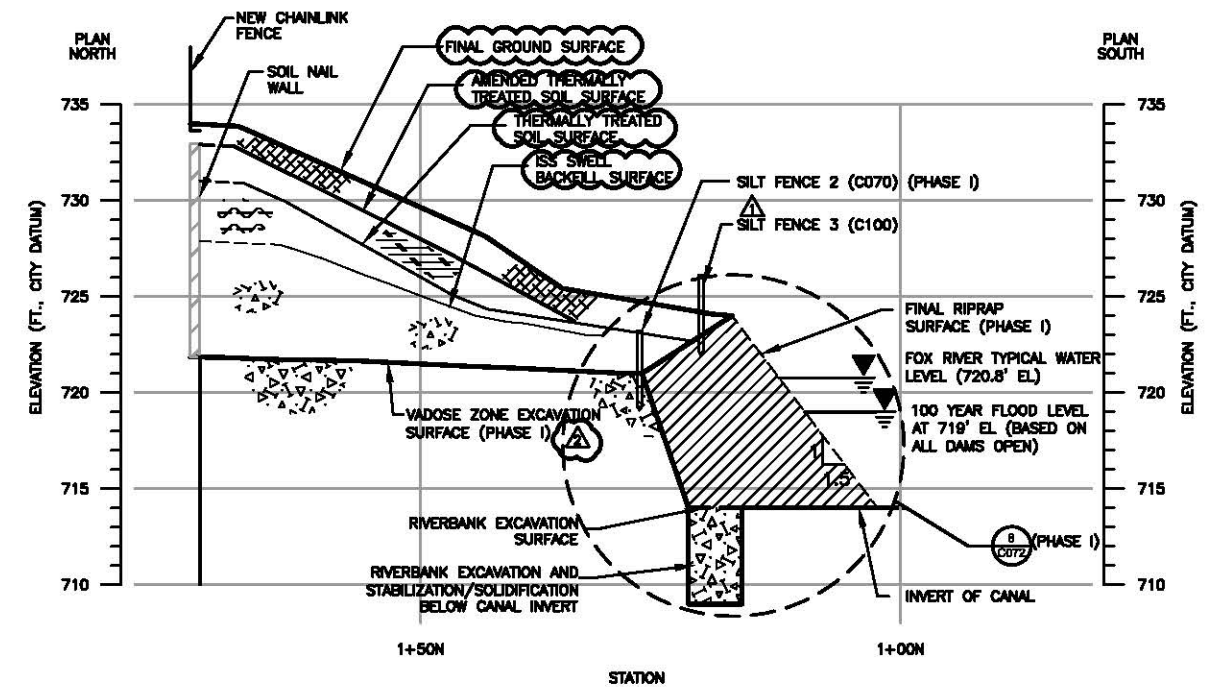
K NORTH-SOUTH CROSS SECTION - STATION 6+00 E
C100 HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=5'
 VERTICAL EXAGGERATION=2



M ACCESS ROAD SECTION
C100 NOT TO SCALE

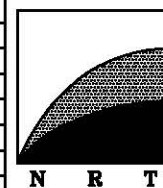


EARTHWORK NOTES:
 1. INSTALL WIRE REINFORCED SILT FENCE ALONG TOP OF RECONSTRUCTED RIVERBANK AS RESTORATION AND FINAL GRADES ARE COMPLETED.
 2. VADOSE ZONE EXCAVATION CROSS SECTIONS (PHASE I) ARE APPROXIMATE. REFERENCE SHEET NOS. C070 AND C080 FOR RECORD CONTOURS.



L NORTH-SOUTH CROSS SECTION - STATION 8+00 E
C100 HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=5'
 VERTICAL EXAGGERATION=2

6.			
5.			
4.			
3.			
2.	ISSUED FOR RECORD DRAWINGS PHASE II	12/18/04	CAR
1.	ISSUED FOR CONSTRUCTION	08/01/03	CAR
0.	ISSUED FOR BID	08/17/03	CAR
REVISION:		DATE:	APP'D BY:

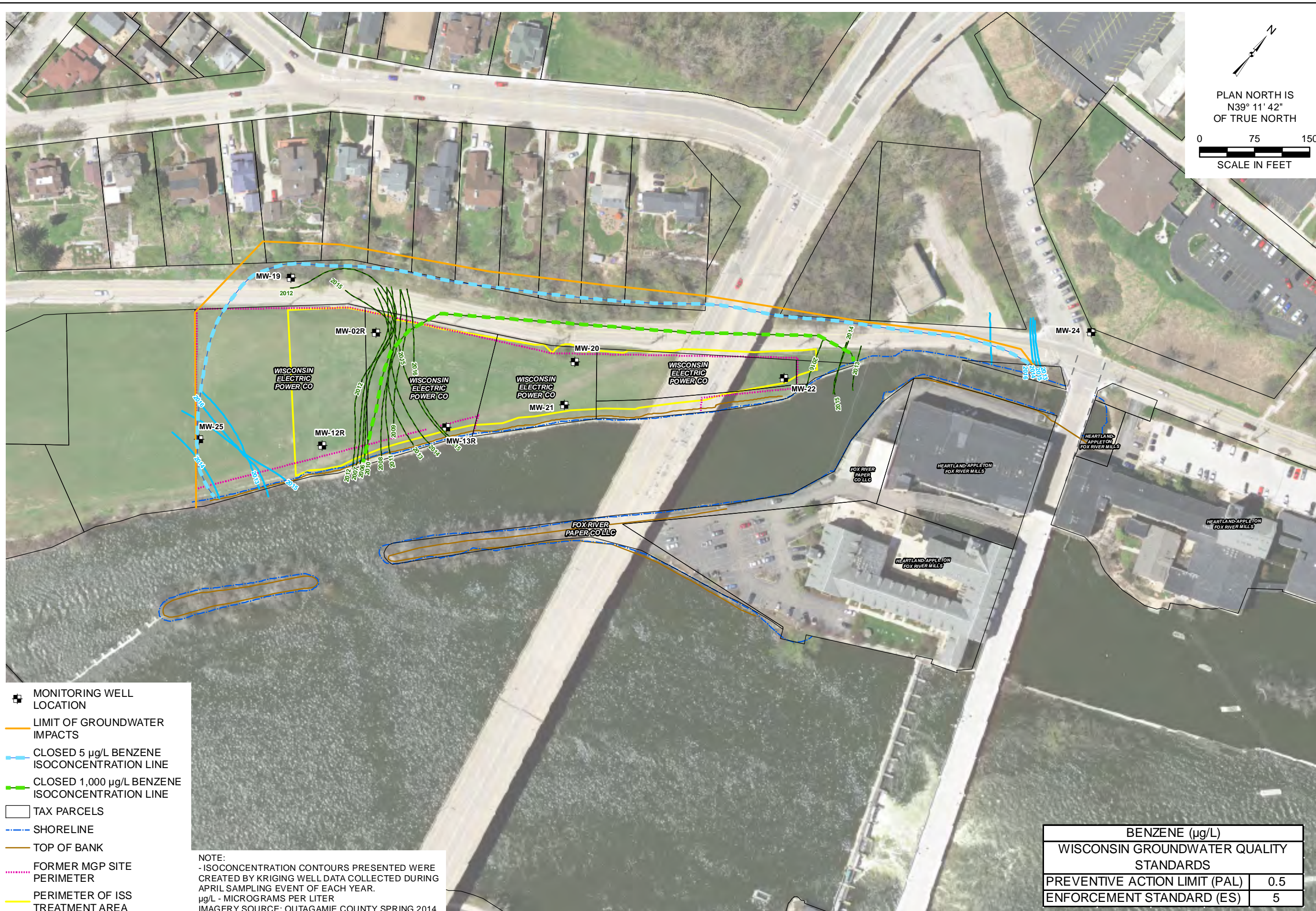


Natural
Resource
Technology

PHASE II - SITE RESTORATION SECTIONS		PROJECT NO. 1508
REMEDIAL CONSTRUCTION FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY WE ENERGIES CITY OF APPLETON, WISCONSIN		DRAWN BY: TAS/RLH 08/17/03
		CHECKED BY: HMS 08/17/03
		APPROVED BY: CAR 08/17/03
CAD FILE: 1508/RECORD DRAWINGS/D1508C101-02.DWG		SHEET NO. C101
REFERENCE FILES:		

APPENDIX D 2016 ANNUAL GROUNDWATER REPORT INFORMATION

Y:\GIS\Projects\1511508\MXD\2016_Annual_Report\Figure_16_Limits_of_Groundwater_Impacts.mxd Author: stolzsd, Date/Time: 4/12/2017, 4:22:54 PM



PLAN NORTH IS
N39° 11' 42"
OF TRUE NORTH

0 75 150
SCALE IN FEET

DRAWN BY/DATE:
SDS 2/9/17
REVIEWED BY/DATE:
ANS 2/9/17
APPROVED BY/DATE:
BGH 4/12/17

LIMIT OF GROUNDWATER IMPACTS

2016 ANNUAL REPORT
FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY
WE ENERGIES
APPLETON, WISCONSIN

PROJECT NO: 1508
FIGURE NO: 16

BENZENE (µg/L)	
WISCONSIN GROUNDWATER QUALITY STANDARDS	
PREVENTIVE ACTION LIMIT (PAL)	0.5
ENFORCEMENT STANDARD (ES)	5

NOTE:
- ISOCONCENTRATION CONTOURS PRESENTED WERE CREATED BY KRIGING WELL DATA COLLECTED DURING APRIL SAMPLING EVENT OF EACH YEAR.
µg/L - MICROGRAMS PER LITER
IMAGERY SOURCE: OUTAGAMIE COUNTY SPRING 2014



APPENDIX E EXAMPLE DOCUMENTATION REPORT OUTLINE

EXAMPLE DOCUMENTATION REPORT OUTLINE

- Site Information and Background
- Current Activities
 - » Contractors Involved
 - » Dates and Duration
 - » Weather
 - » Description of activities
 - » Material management
 - › Access Drive
 - › Earthen Cap
 - › Canal
 - › Residually Impacted Subsurface Materials
 - MGP-impacted Groundwater
 - ISS Treated Soil
 - Thermally Treated Soil
 - ISS Swell Material
 - » Restoration activities
 - » Deviations
- Attachments
 - » Figures documenting area of activities
 - » Tables documenting survey and off-site disposal
 - » Survey documentation
 - » Photo documentation
 - » Off-site disposal documentation

APPENDIX F PHOTOGRAPHS OF CAP



Photo Number: 1

Date of Photo: 10/30/19

Description: Representative vegetated topsoil and crushed aggregate backfill cover. Facing northeast towards the S. Oneida St. Bridge along the fence on the northern portion of the Site.



Photo Number: 2

Date of Photo: 10/30/19

Description: Representative vegetated topsoil cover. Facing southwest along the fence on the northern portion of the Site.



Photo Number: 3

Date of Photo: 10/30/19

Description: Facing southeast from W. Water St. Site is located to the left (east/northeast) of the property boundary fence.



Photo Number: 4

Date of Photo: 10/30/19

Description: Representative vegetated topsoil cover. Facing northeast from property boundary fence located at southwestern portion of Site.



Photo Number: 5

Date of Photo: 10/30/19

**Description: Representative vegetated topsoil and crushed aggregate backfill cover.
Facing west from the S. Oneida St. Bridge above the Site.**

**APPENDIX G CONTINUING OBLIGATIONS INSPECTION AND MAINTENANCE LOG (WDNR
FORM 4400-305)**

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name Appleton City (Coal Tar) Former Appleton MGP	BRRTS No. 02-45-000042
---	----------------------------------

Inspections are required to be conducted (see closure approval letter):

annually
 semi-annually
 other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

{Click to Add/Edit Image}

Date added:

Title:

{Click to Add/Edit Image}

Date added:

Title:

WDNR TECHNICAL ASSISTANCE FORM 4400-237

Notice: Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 2 of 6

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name Dombrowski	First Frank	MI J	Organization/ Business Name WEC Business Services/We Energies
Mailing Address 333 W. W Everett Street		City Milwaukee	State WI
		ZIP Code 53203	
Phone # (include area code) (414) 221-2156	Fax # (include area code)	Email frank.dombrowski@wecenergygroup.com	

The requester listed above: (select all that apply)

- Is currently the owner
 Is considering selling the Property
 Is renting or leasing the Property
 Is considering acquiring the Property
 Is a lender with a mortgagee interest in the Property
 Other. Explain the status of the Property with respect to the applicant:

Contact Information (to be contacted with questions about this request)

Select if same as requester

Contact Last Name Dombrowski	First Frank	MI J	Organization/ Business Name WEC Business Services/We Energies
Mailing Address 333 W. W Everett Street		City Milwaukee	State WI
		ZIP Code 53203	
Phone # (include area code) (414) 221-2156	Fax # (include area code)	Email frank.dombrowski@wecenergygroup.com	

Environmental Consultant (if applicable)

Contact Last Name Hennings	First Brian	MI G	Organization/ Business Name Ramboll
Mailing Address 234 West Florida Street, Fifth Floor		City Milwaukee	State WI
		ZIP Code 53204	
Phone # (include area code) (414) 837-3524	Fax # (include area code) (414) 837-3608	Email brian.hennings@ramboll.com	

Section 2. Property Information

Property Name Appleton City (Coal Tar) Former Appleton MGP	FID No. (if known) Not Applicable
BRRTS No. (if known) 02-45-000042	Parcel Identification Number 312078600, 312078700, 312078800, and 312078900
Street Address 337 West Water Street	City Appleton
	State WI
	ZIP Code 54911
County Outagamie	Municipality where the Property is located <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Appleton
	Property is composed of: <input type="radio"/> Single tax parcel <input checked="" type="radio"/> Multiple tax parcels
	Property Size Acres 2

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 3 of 6

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

No Yes

Date requested by: _____

Reason:

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

No. **Include the fee that is required for your request in Section 3, 4 or 5.**

Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:

Section 3. Technical Assistance or Post-Closure Modifications;

Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- Schedule a Technical Assistance Meeting - **Include a fee of \$700.**
- Hazardous Waste Determination - **Include a fee of \$700.**
- Other Technical Assistance - **Include a fee of \$700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of \$1050, and:**
 - Include a fee of \$300 for sites with residual soil contamination; and
 - Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 4 of 6

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/Igu.html#tabx4.

Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

❖ **Include a fee of \$700, and the information listed below:**

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description.

Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

❖ **Include a fee of \$700, and the information listed below:**

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description.

Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

❖ **Include a fee of \$1400, and the information listed below:**

- (1) a draft schedule for remediation; and,
- (2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

Phase I Environmental Site Assessment Report - Date: _____

Phase II Environmental Site Assessment Report - Date: _____

Legal Description of Property (required for all liability requests and specialized agreements)

Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

Groundwater Soil Sediment Other medium - Describe: _____

Date of Collection: _____

A copy of the closure letter and submittal materials

Draft tax cancellation agreement

Draft agreement for assignment of tax foreclosure judgment

Other report(s) or information - Describe: Direct Contact Barrier Maintenance and Material Management Plan

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

Yes - Date (if known): _____

No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at:

dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

Section 7. Certification by the Person who completed this form

I am the person submitting this request (requester)

I prepared this request for: Frank Dombrowski

Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

**Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request**

Form 4400-237 (R 12/18)

Page 5 of 6

Signature



Date Signed

11/12/19

Managing Hydrogeologist

Title

(414) 837-3524

Telephone Number (include area code)

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 6 of 6

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a [DNR regional brownfields specialist](#) with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

DNR NORTHERN REGION

Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION

Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION

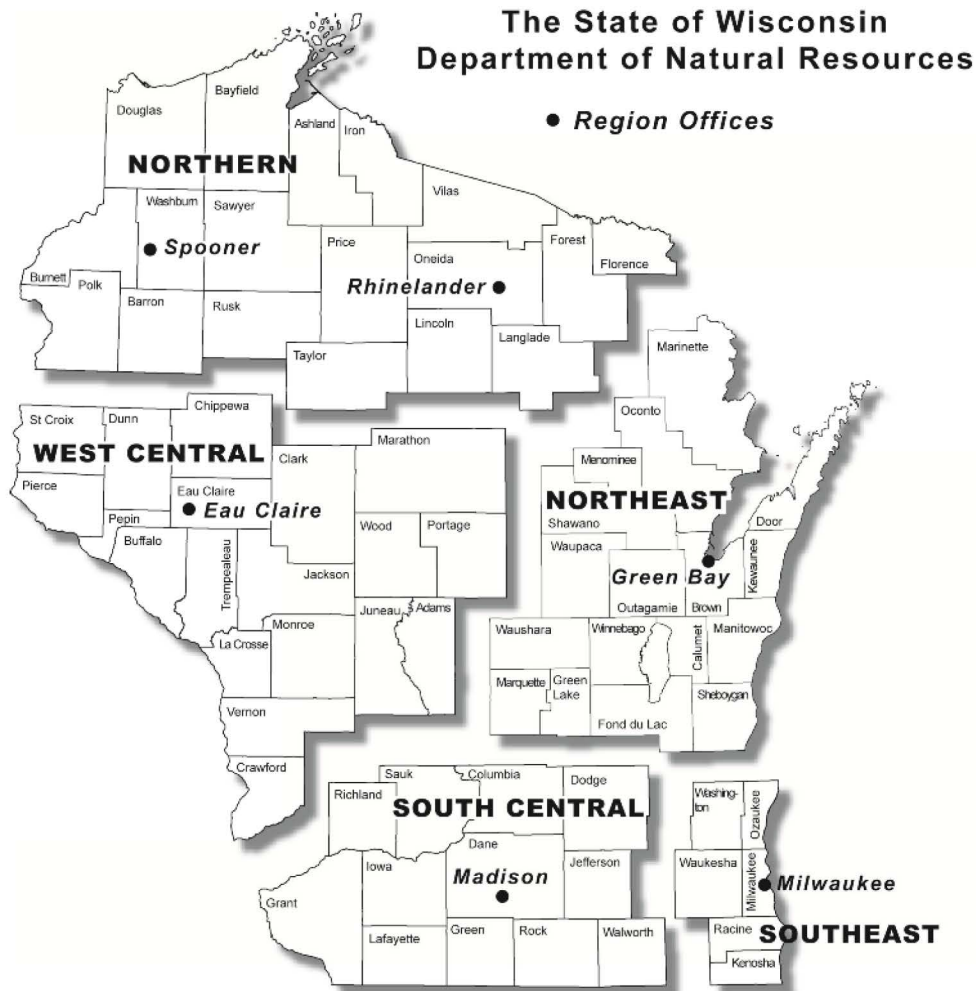
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION

Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION

Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



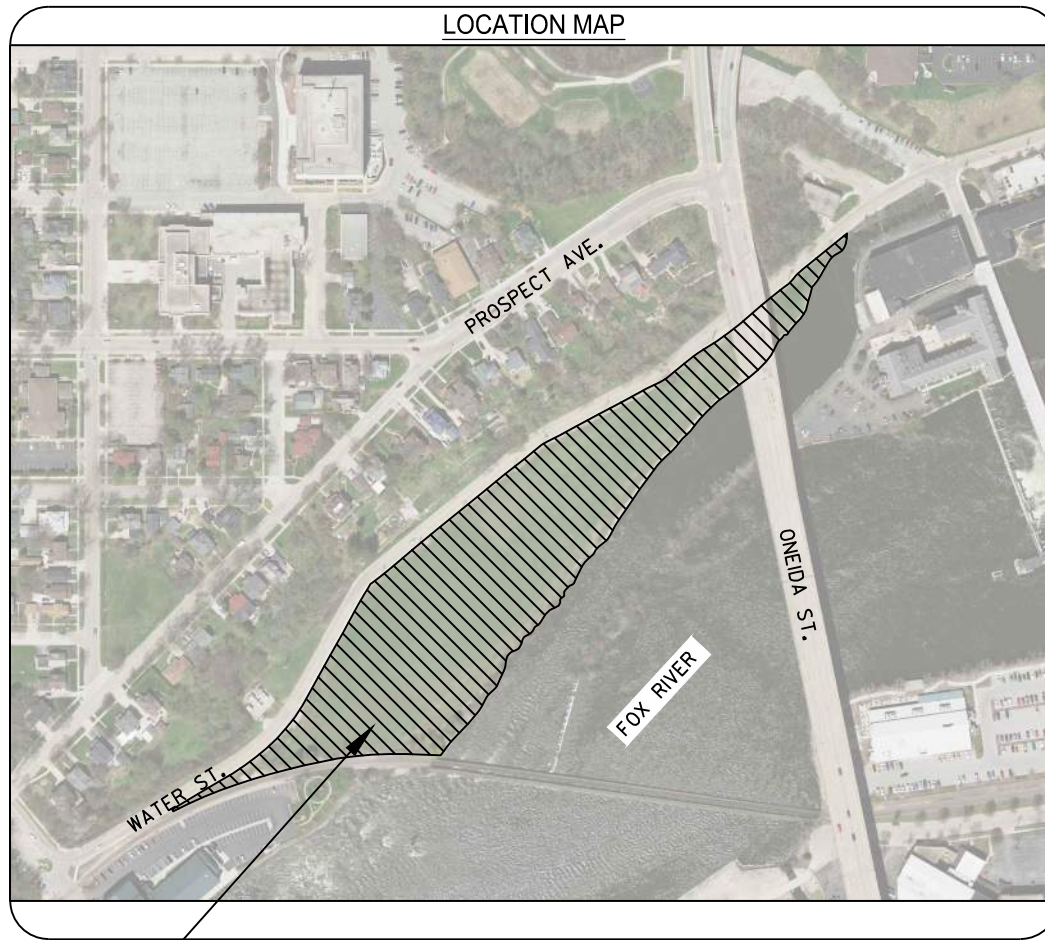
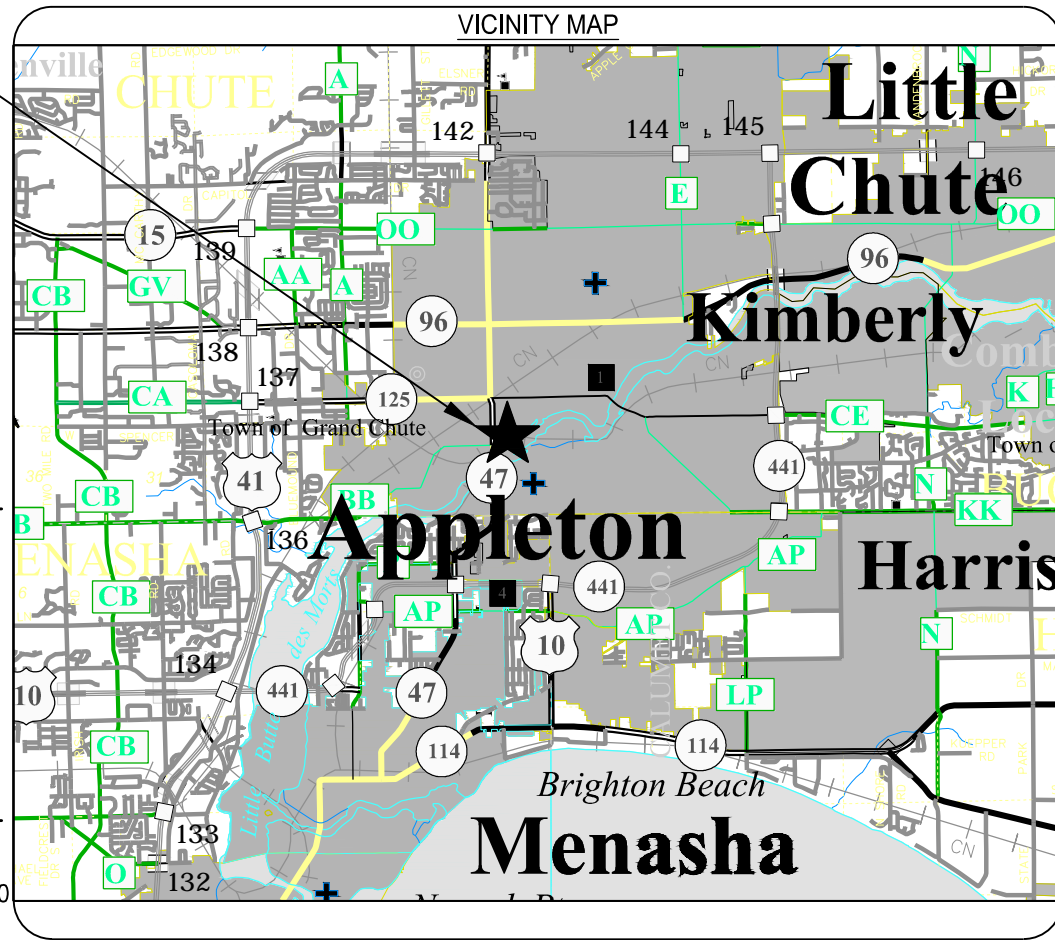
Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

ELLEN KORT PEACE PARK TRAIL EXPANSION PLAN SET

CITY OF APPLETON
 PARKS & RECREATION DEPARTMENT
ELLEN KORT PEACE PARK TRAIL
 OUTAGAMIE COUNTY

PROJECT VICINITY



OWNER CONTACT

CITY OF APPLETON PARKS, RECREATION, & FACILITIES MANAGEMENT DEPARTMENT
 TOM FLICK
 1819 E. WITZKE BOULEVARD
 APPLETON, WI 54911
 P: 920-832-3915
 WWW.APPLETON.ORG

DESIGN CONTACTS

PATRICK ENGINEERING INC.
 ROWLAND HOSLET, P.E.
 480 PILGRIM WAY, SUITE 1250
 GREEN BAY, WI 54304
 P: 920-321-2350
 C: 920-857-6304
 RHOSLET@PATRICKCO.COM

PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT CONSISTS OF INSTALLATION OF A NEW TRAIL SYSTEM THROUGH ELLEN KORT PEACE PARK, SITE GRADING FOR FUTURE DEVELOPMENT, CLEARING AND GRUBBING, AND SITE RESTORATION.

CIVIL (C)

SIGNATURE _____ DATE _____

ELECTRICAL (E)

SIGNATURE _____

INDEX OF DRAWINGS

SECTION ID	SECTION
C	- CIVIL PLANS
E	- ELECTRICAL PLANS
XS	- CROSS SECTIONS

FINAL PLAN - NOT FOR BIDDING
 09/11/2019

FILE NAME: E:\Green Bay\Projects\Appleton City\21877.008 - Ellen Kort Peace Park\Drawings\Sheet\010101-1.dwg; USER: RHO; DATE: 09/11/2019 11:30am; USER: RHO; DATE: 09/11/2019 11:30am; USER: RHO; DATE: 09/11/2019 11:30am

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR USE ON THIS PROJECT ONLY

Owner/Client:

**CITY OF APPLETON
 PARKS & RECREATION DEPARTMENT**



480 Pilgrim Way, Suite 1250
 Green Bay, WI 54304
 TEL. (920) 321-2330
 www.patrickco.com

Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **TITLE SHEET**

Project No.:	21877.008	Date:	09/11/2019
Designed By:	RH	C1.01	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE, AFFECTED UTILITIES, AND THE CITY OF APPLETON PRIOR TO THE START OF WORK.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES NECESSARY TO AVOID DAMAGE.
3. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE CITY.
4. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATIONS.
5. NO EXCAVATION BELOW SUBGRADE IS SHOWN ON THE PLANS. IF EBS IS REQUIRED, IT WILL BE DETERMINED BY THE ENGINEER IN THE FIELD AND SHALL BE PAID FOR AS EXCAVATION.
6. ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM ON 1929. HORIZONTAL CONTROL IS REFERENCED TO WISCONSIN OUTAGAMIE, US FT.
7. CONSTRUCTION SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO MINIMIZE EROSION AND SILTATION INTO SURFACE WATERS. EROSION CONTROL MEASURES (SUCH AS SILT FENCE, TURBIDITY BARRIER, AND STRAW BALES) MUST MEET OR EXCEED THE TECHNICAL STANDARDS OF CH. NR 151, WIS. ADM. CODE.
8. AFTER THE SITE IS 80% STABILIZED, OR PRIOR TO, AT THE DIRECTION OF THE CITY, ALL TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED AND DISPOSED OF PROPERLY. ANY REMAINING TEMPORARY EROSION CONTROL DEVICES AFTER THIS POINT CONSTITUTE LITTERING AND MAY BE ENFORCED.
9. APPROPRIATE EROSION CONTROL MEASURES MUST BE IN-PLACE AND EFFECTIVE DURING EVERY PHASE OF THIS PROJECT AND AT THE END OF EACH WORKING DAY.
10. LAYOUT INFORMATION WILL BE PROVIDED TO CONTRACTOR IN ELECTRONIC FORMAT FOR CONSTRUCTION LAYOUT AND STAKING. ALL DIMENSIONS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN AND CAD FILES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

CONTACTS

CITY OF APPLETON
DEPUTY DIRECTOR
TOM FLICK
920-832-3915

PATRICK ENGINEERING INC.
PROJECT MANAGER
ROWLAND HOSLET, PE
920-857-6304

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
AREA LIASON
ANTHONY FISCHER
920-787-3017

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
JENNIFER BORSKI
920-424-7887




CITY OF APPLETON
ELECTRICAL, SIGNALS, AND LIGHTING
MIKE HARDY
920-832-6478

WE ENERGIES
FRANK DOMBROWSKI
414-221-2156

ABBREVIATIONS:

- CABC - CRUSHED AGGREGATE BASE COURSE
- CB - CATCH BASIN
- EL - ELEVATION
- EX - EXISTING
- INV - INVERT
- LF - LINEAR FEET
- LS - LUMP SUM
- MIN - MINIMUM
- OD - OUTSIDE DIAMETER
- OHWM - ORDINARY HIGH WATER MARK
- PROP - PROPOSED
- TYP - TYPICAL

CONVENTIONAL SYMBOLS:

- ELECTRIC — E —
- FIBER OPTIC — FO —
- GAS — G —
- SANITARY SEWER — SAN —
- STORM SEWER — SS —
- TELEPHONE — T —
- WATER — W —
- UTILITY PEDESTAL 
- POWER POLE 
- TELEPHONE POLE 

DIGGERS HOTLINE

Dial **811** or (800)242-8511

www.DiggersHotline.com

FILE NAME: P:\Green_Bldg\Projects\Appleton_City\21877\008_Ellen_Kort_Peace_Park\Drawings\2019\01-25-2019_C1.02_PLOTTER.dwg PLOTTER: Monday, March 18, 2019 - 4:28pm USER: jstangsh

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR USE ON THIS PROJECT ONLY

Owner/Client:

**CITY OF APPLETON
PARKS & RECREATION DEPARTMENT**



480 Pilgrim Way, Suite 1250
Green Bay, WI 54304
TEL. (920) 321-2330
www.patrickco.com

Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **GENERAL NOTES**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	C1.02	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		



FILE NAME: E:\Green Bay\Projects\appleton_c1.03\Drawings\Drawings\020201-pe_overview.dwg USER: JCB DATE: 03/18/2019 TIME: 4:23pm USDB PLOTDATE: Monday, March 18, 2019 - 4:23pm USDB PLOTSCALE: 1:1

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR USE ON THIS PROJECT ONLY

Owner/Client:

**CITY OF APPLETON
 PARKS & RECREATION DEPARTMENT**



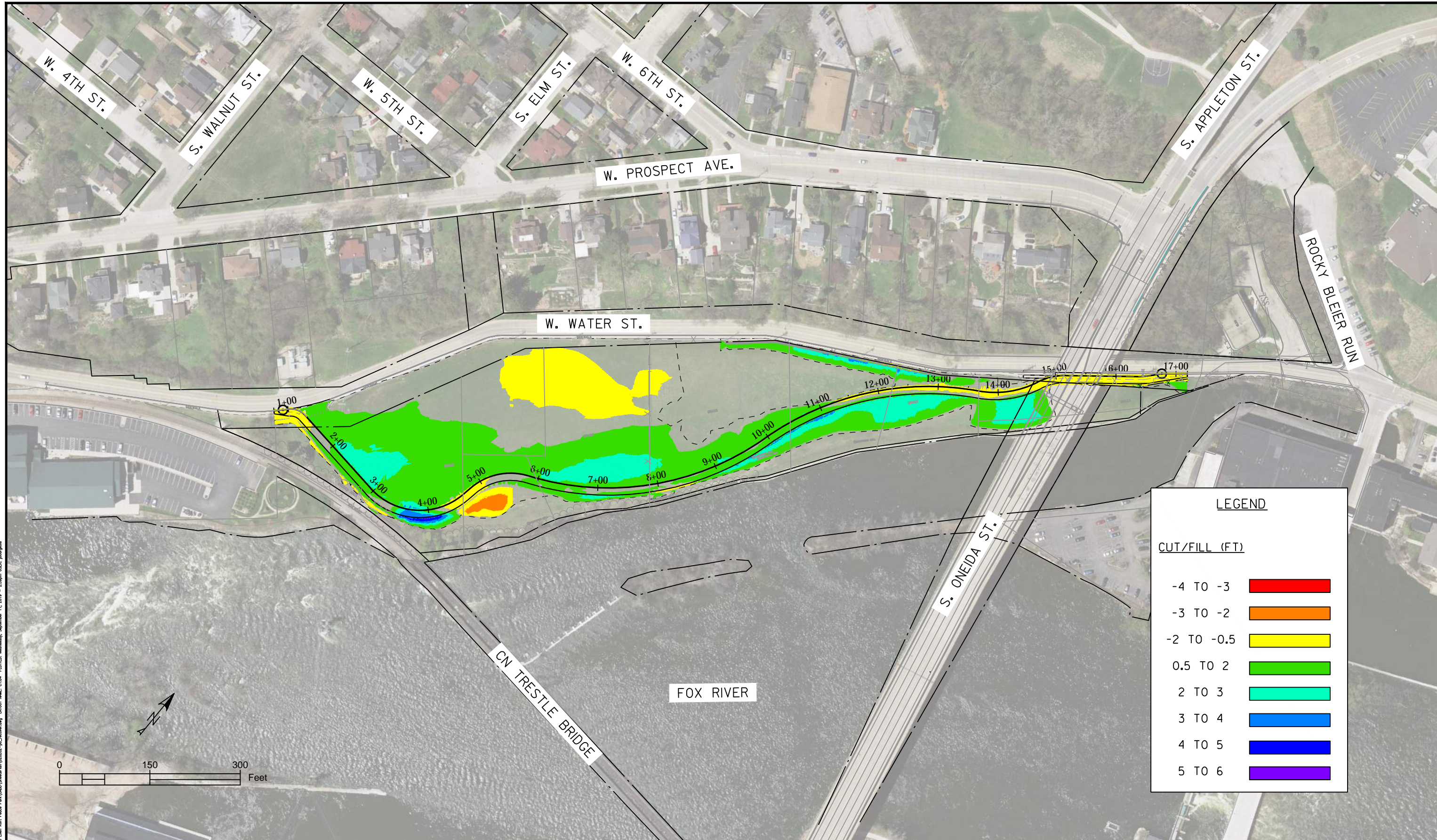
480 Pilgrim Way, Suite 1250
 Green Bay, WI 54304
 TEL. (920) 321-2330
 www.patrickco.com

Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **PROJECT OVERVIEW**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	Drawn By:	JCB
Checked By:	RH	Approved By:	RH

C1.03



LEGEND

CUT/FILL (FT)

-4 TO -3	
-3 TO -2	
-2 TO -0.5	
0.5 TO 2	
2 TO 3	
3 TO 4	
4 TO 5	
5 TO 6	

FILE NAME: P:\Green Bay\Projects\appleton city\1877.008 Ellen Kort Peace Park\000\SheetPlan\000002-00_incorrect.dwg LAYOUT NAME: C1.04 PLOTTED: Wednesday, September 11, 2019 - 2:58pm USER: jbourgeois

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR USE ON THIS PROJECT ONLY

Owner/Client:

**CITY OF APPLETON
PARKS & RECREATION DEPARTMENT**

**PATRICK
ENGINEERING**

480 Pilgrim Way, Suite 1250
Green Bay, WI 54304
TEL. (920) 321-2330
www.patrickco.com

Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **EARTHWORK OVERVIEW**

Project No.: 21877.008 Date: 09/11/2019

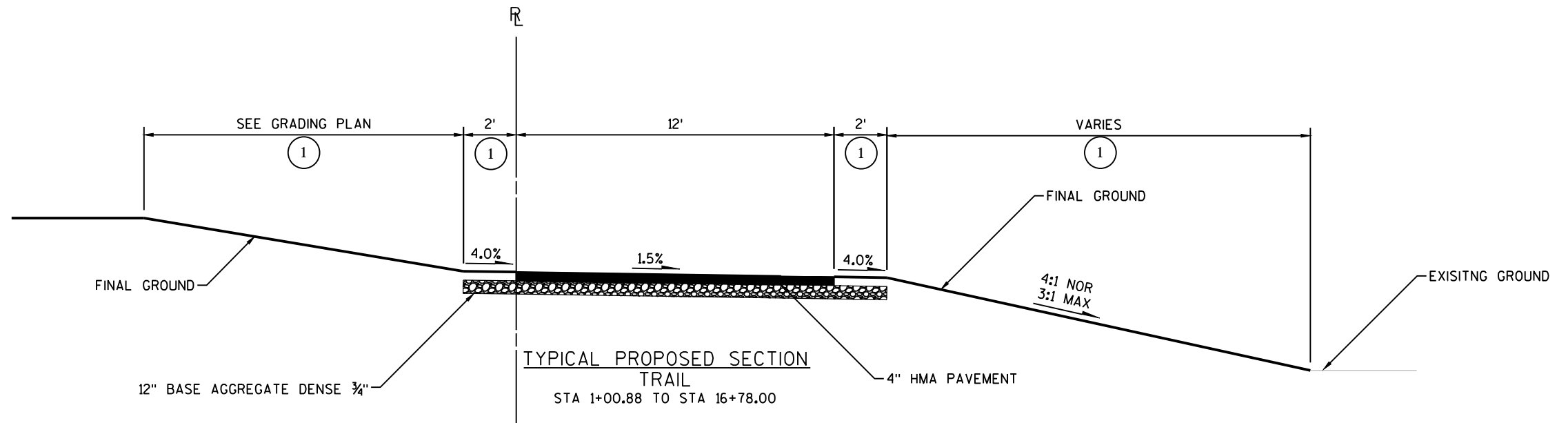
Designed By: RH

Drawn By: JCB

Checked By: RH

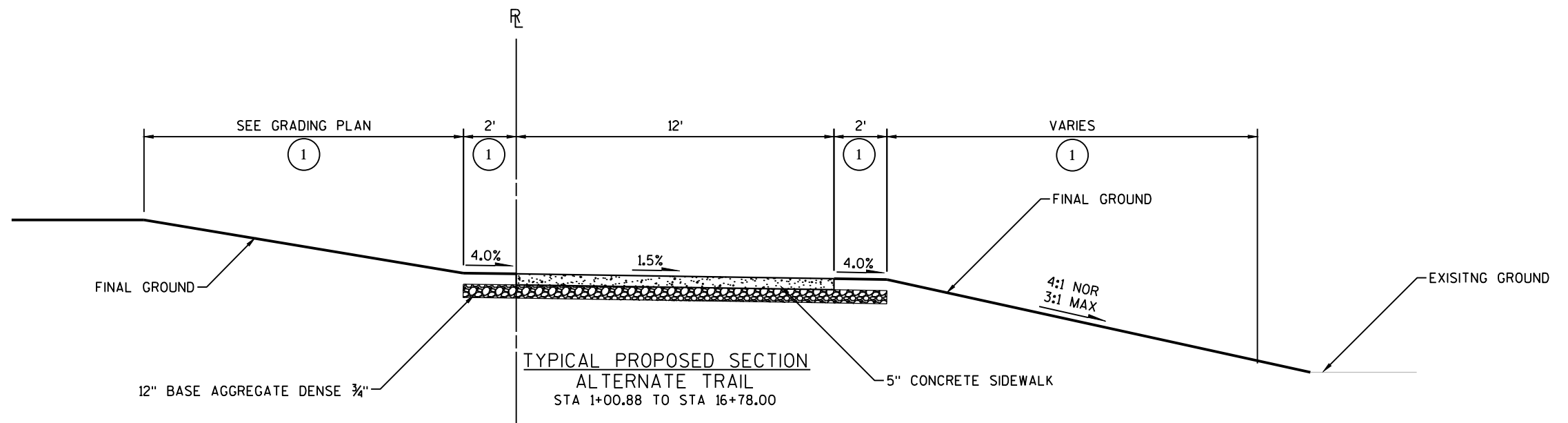
Approved By: RH

C1.04



NOTES:

- (1) 4" TOPSOIL, FERTILIZER TYPE B, SEED NO. 40, MULCH



FILE NAME: C:\Users\Byron\Projects\Appleton City\21877.008 - Ellen Kort Peace Park\Drawings\21877.008 - C2.01 - TYPICALS.dwg PLOT DATE: Tuesday, June 04, 2019 10:55am USER: jburgess

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR USE ON THIS PROJECT ONLY

Owner/Client:

**CITY OF APPLETON
PARKS & RECREATION DEPARTMENT**

**PATRICK
ENGINEERING**

480 Pilgrim Way, Suite 1250
Green Bay, WI 54304
TEL. (920) 321-2330
www.patrickco.com

Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **TYPICAL SECTIONS**

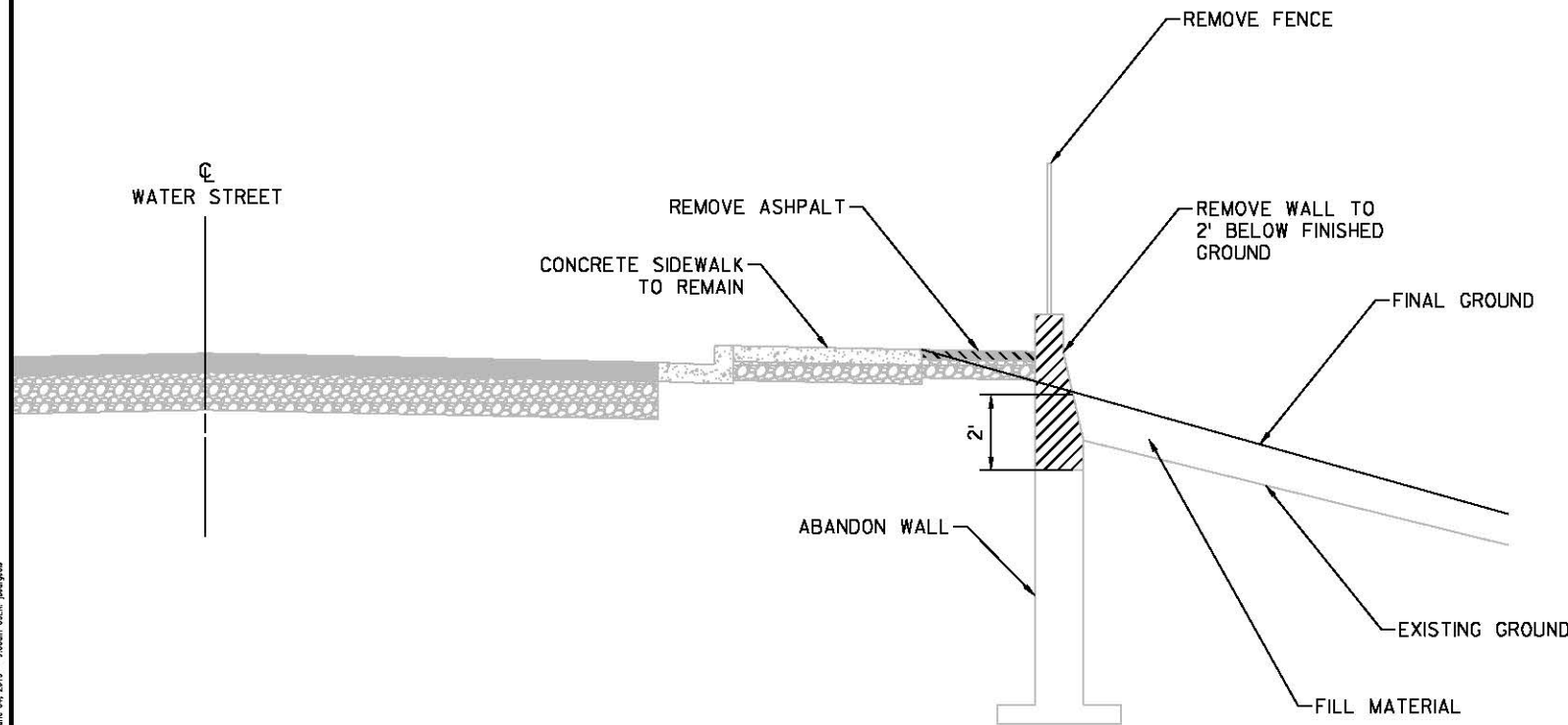
Project No.:	21877.008
Designed By:	VK
Drawn By:	JCB
Checked By:	VK
Approved By:	RH

Date: 03/18/2019

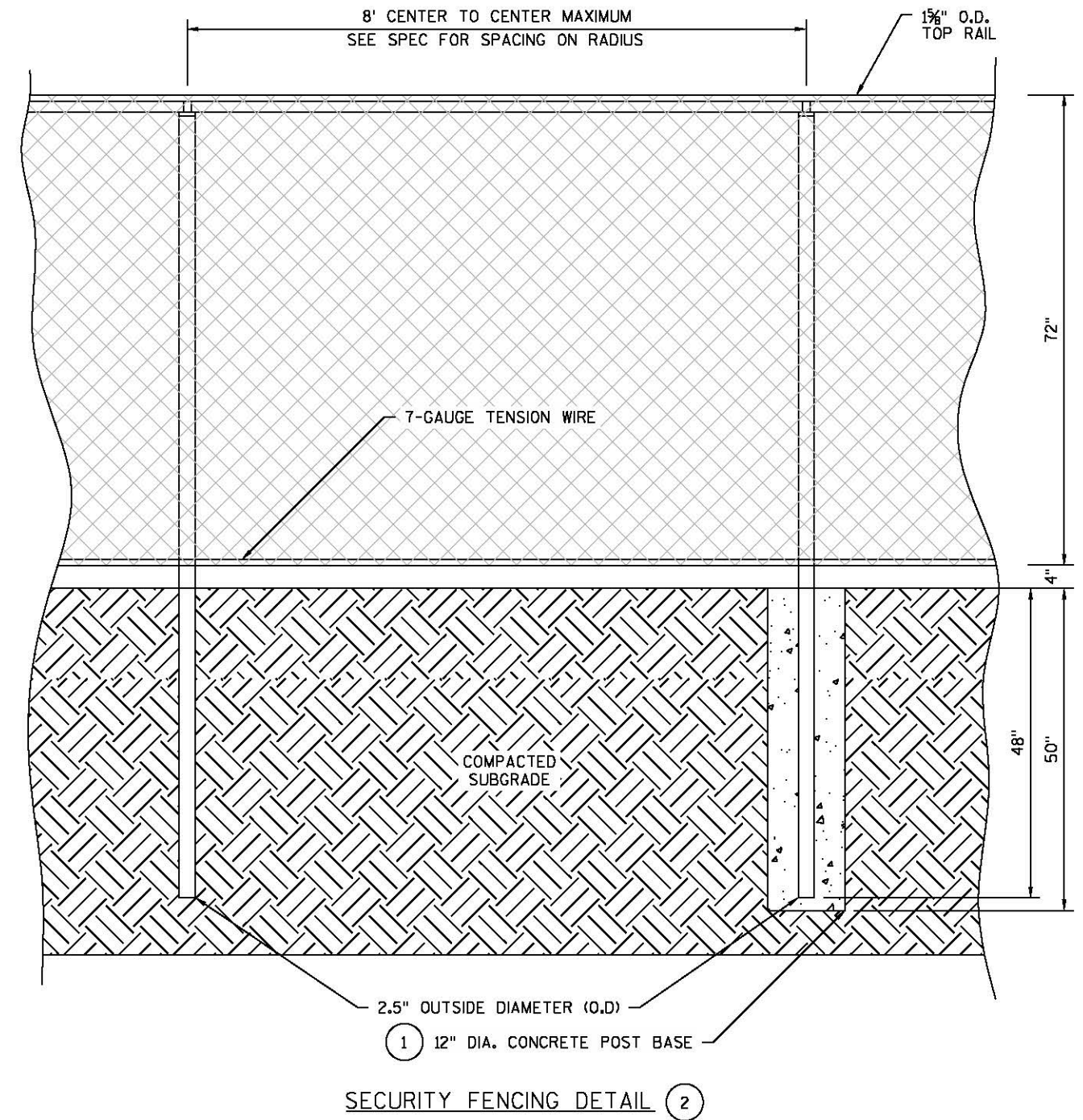
C2.01

NOTES:

- ① CONCRETE BASES ONLY REQ'D AT CORNER POSTS AND END POSTS, ALL OTHER POSTS SHALL BE DRIVEN. INCIDENTAL TO CHAIN LINK FENCE BID ITEM.
- ② ALL CHAIN LINK FENCE SHALL BE BLACK VINYL COATED.



ABANDON RETAINING WALL SECTION VIEW



SECURITY FENCING DETAIL

FILE NAME: P:\Green Bay\Project\Appleton_City\21877.008_Ellen_Kort_Peace_Park\Drawings\Construction\20190318_C2.02_PATRICK.dwg
 LAYOUT NAME: C2.02_PATRICK.dwg
 DATE: 03/18/2019
 USER: jburgess

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS
 THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR USE ON THIS PROJECT ONLY

Owner/Client:

**CITY OF APPLETON
 PARKS & RECREATION DEPARTMENT**



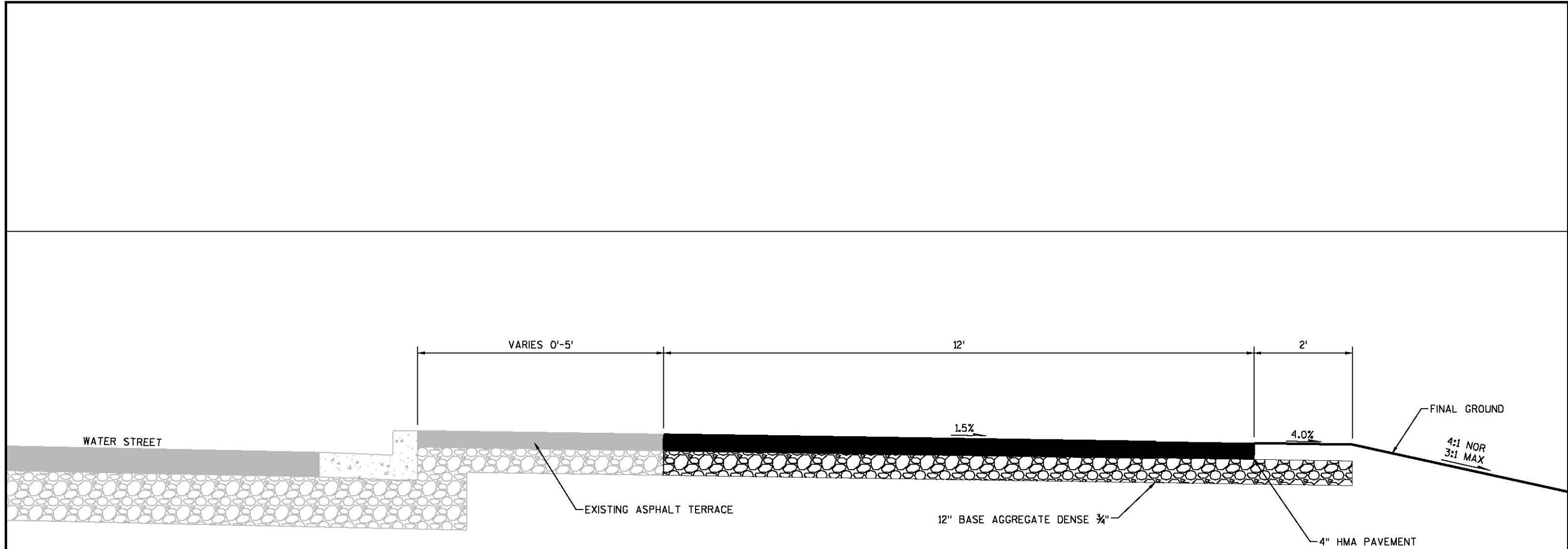
480 Pilgrim Way, Suite 1250
 Green Bay, WI 54304
 TEL. (920) 321-2330
 www.patrickco.com

Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **CONSTRUCTION DETAILS**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	VK	Drawn By:	JCB
Checked By:	VK	Approved By:	RH

C2.02



PROPOSED SECTION
TRAIL
 STA 15+00.00 TO STA 17+18.91

FILE NAME: P:\Green Bay\Project\Appleton_City\21877.008_Ellen_Kort_Peace_Park\Drawings\2019\2019-03-18_PATRICK_ENGINEERING_LAYOUT.dwg
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 DATE: 03/18/2019
 TIME: 10:52:00 AM
 USER: JCB

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR USE ON THIS PROJECT ONLY

Owner/Client:

CITY OF APPLETON
PARKS & RECREATION DEPARTMENT



480 Pilgrim Way, Suite 1250
 Green Bay, WI 54304
 TEL. (920) 321-2330
 www.patrickco.com

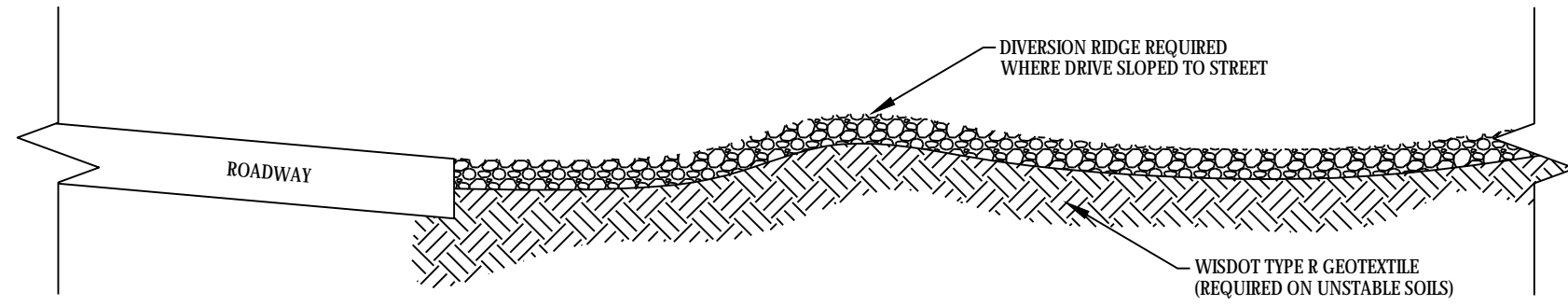
Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **CONSTRUCTION DETAILS**

Project No.:	21877.008
Designed By:	RH
Drawn By:	JCB
Checked By:	RH
Approved By:	RH

Date: 03/18/2019

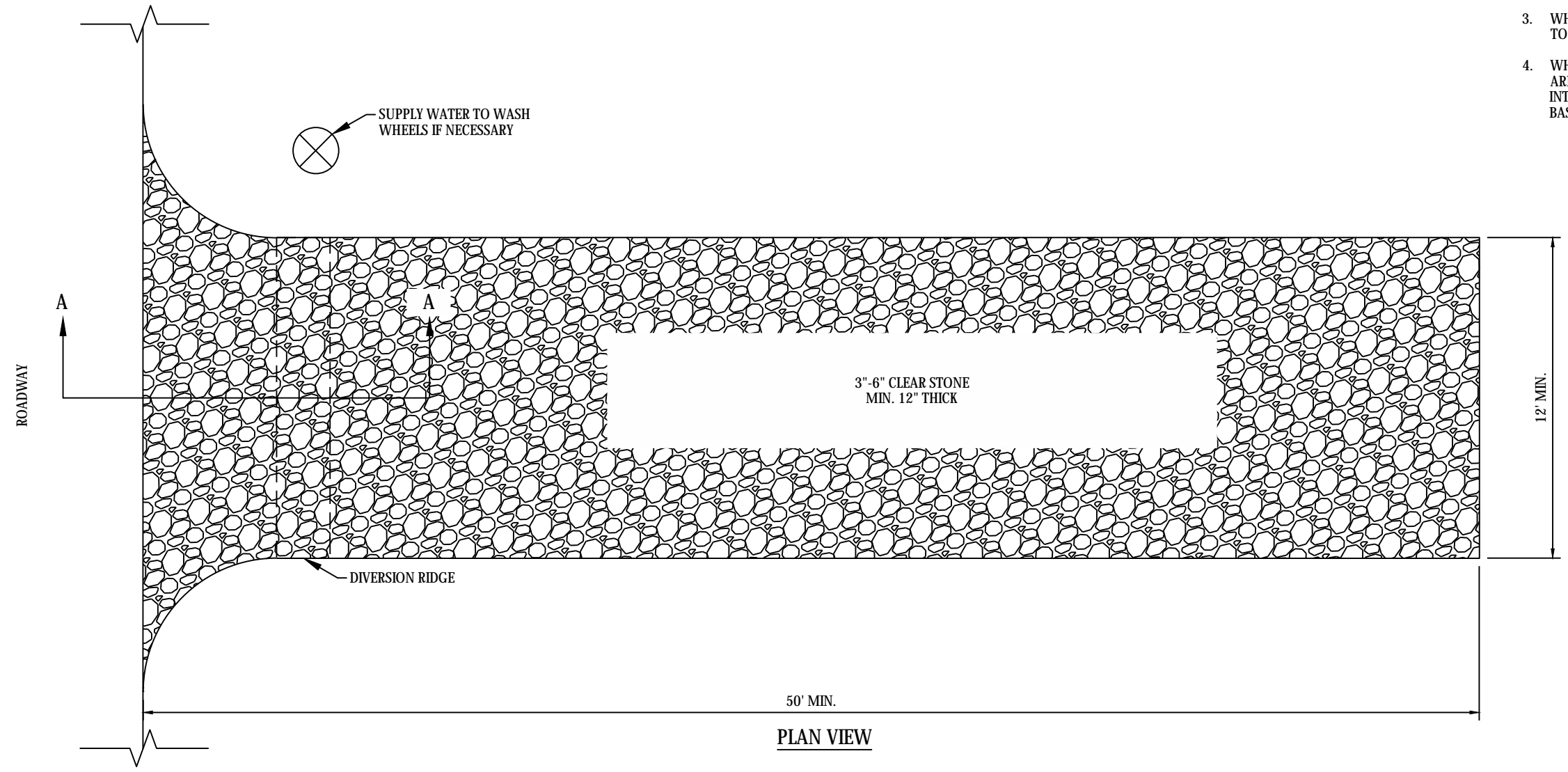
C2.03



SECTION A - A

NOTES:

1. FLOWS SHALL BE DIRECTED TO AREAS WITH SEDIMENT CONTROL MEASURES IN PLACE
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
3. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
4. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



PLAN VIEW

FILE NAME: P:\Green Bay\Projects\Appleton_City\21877_008_Ellen_Kort_Peace_Park\Drawings\202001-24_revised_construction_LAYOUT.dwg
 USER: JCB
 DATE: 03/18/2019 10:52:00 AM
 PLOTTER: HP DesignJet 5000

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

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Owner/Client:

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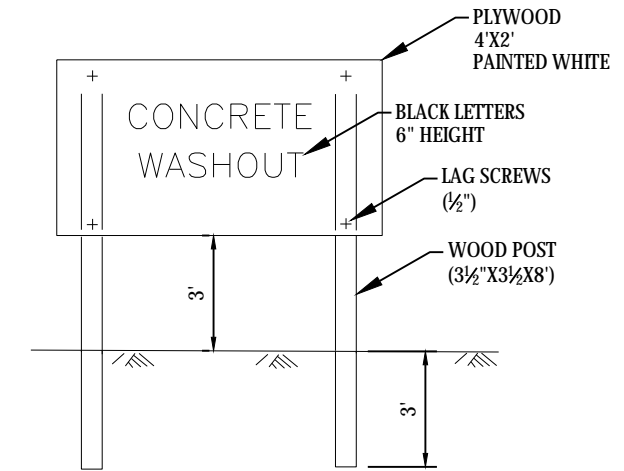
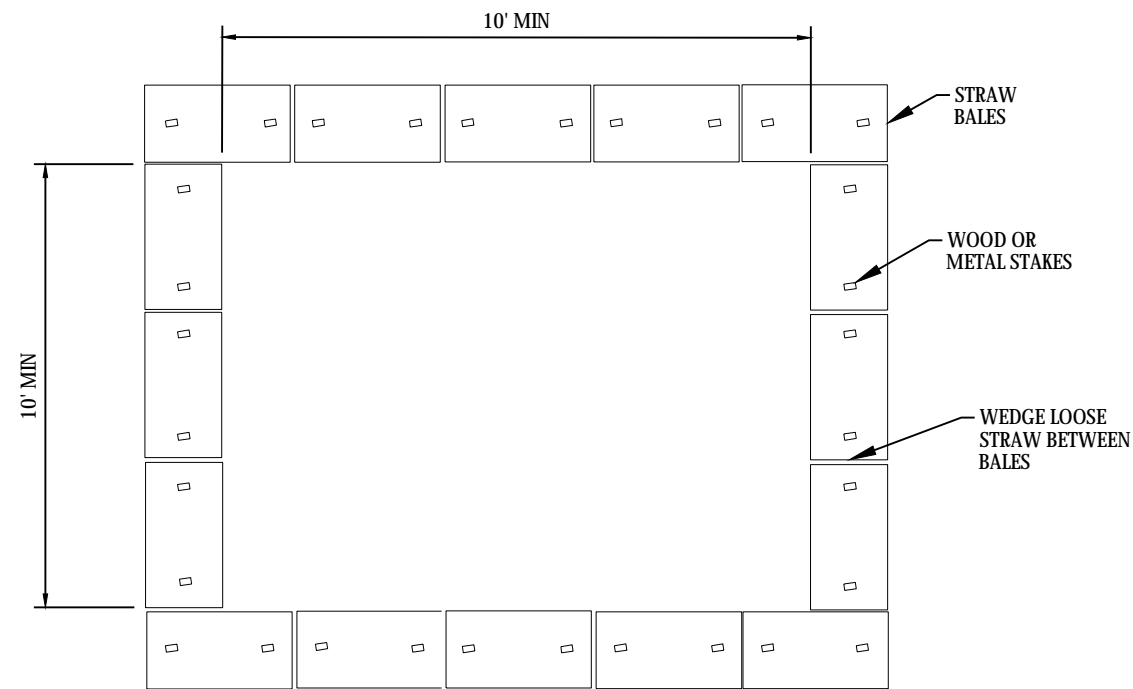
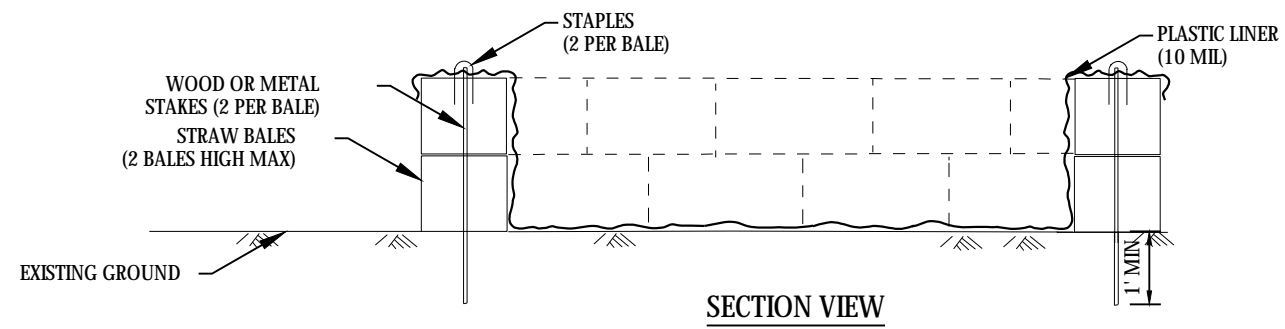
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TEL. (920) 321-2330
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Project: **ELLEN KORT PEACE PARK TRAIL**

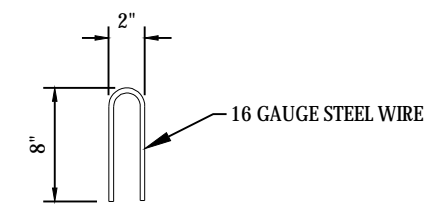
Sheet Title: **CONSTRUCTION DETAILS**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	C2.04	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		

- NOTES:**
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY WASHOUT FACILITY.



CONCRETE WASHOUT SIGN DETAIL



STAPLE DETAIL

FILE NAME: E:\Users\ByProject\Appleton_City\21877.008 - Ellen Kort Peace Park\Drawings\Construction\CONCRETE WASHOUT_SIGN_DETAIL.dwg PLOT DATE: 03/18/2019 10:52:30 AM PLOT BY: JCB

REV.	DATE	DESCRIPTION

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ENGINEERING**

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Project: **ELLEN KORT PEACE PARK TRAIL**

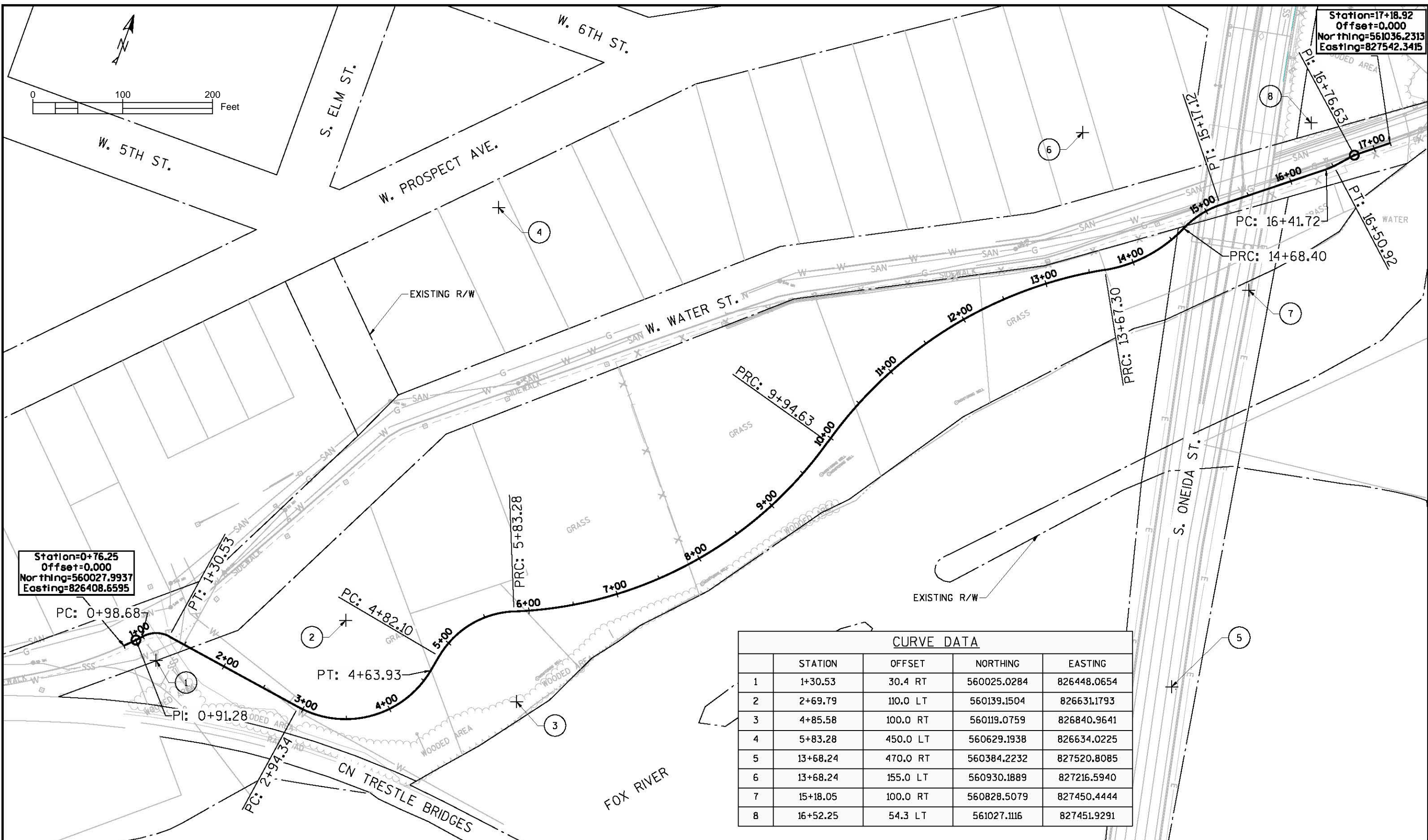
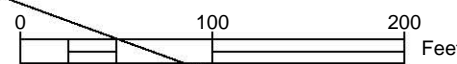
Sheet Title: **CONSTRUCTION DETAILS**

Project No.: 21877.008
Date: 03/18/2019

Designed By: RH
Drawn By: JCB
Checked By: RH
Approved By: RH

C2.05

Station=17+18.92
 Offset=0.000
 Northing=561036.2313
 Easting=827542.3415



Station=0+76.25
 Offset=0.000
 Northing=560027.9937
 Easting=826408.6595

CURVE DATA				
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2	2+69.79	110.0 LT	560139.1504	826631.1793
3	4+85.58	100.0 RT	560119.0759	826840.9641
4	5+83.28	450.0 LT	560629.1938	826634.0225
5	13+68.24	470.0 RT	560384.2232	827520.8085
6	13+68.24	155.0 LT	560930.1889	827216.5940
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FILE NAME: P:\Users\Bryant\Projects\Appleton_City\21877\008_Ellen_Kort_Peace_Park\Drawings\21877-008-0220-02-02.dwg
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 DATE: 03/18/2019 10:52:00 AM
 PLOTTER: HP DesignJet 2500

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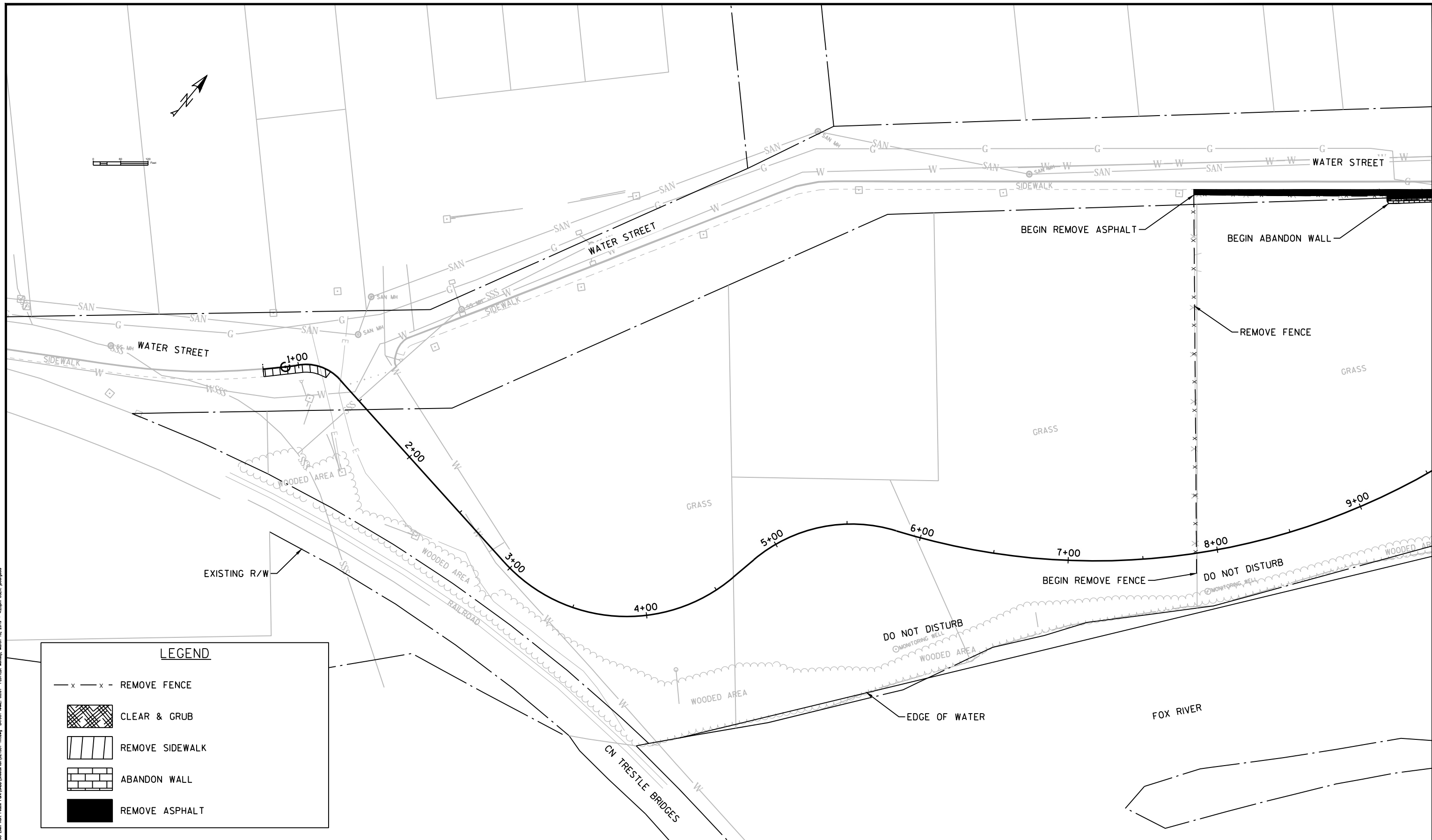
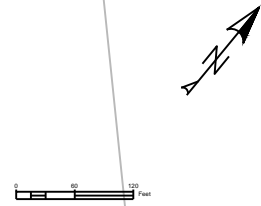
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Project:
ELLEN KORT PEACE PARK TRAIL

Sheet Title:
ALIGNMENT DETAIL

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	C2.06	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		



LEGEND

- x - x - REMOVE FENCE
- CLEAR & GRUB
- REMOVE SIDEWALK
- ABANDON WALL
- REMOVE ASPHALT

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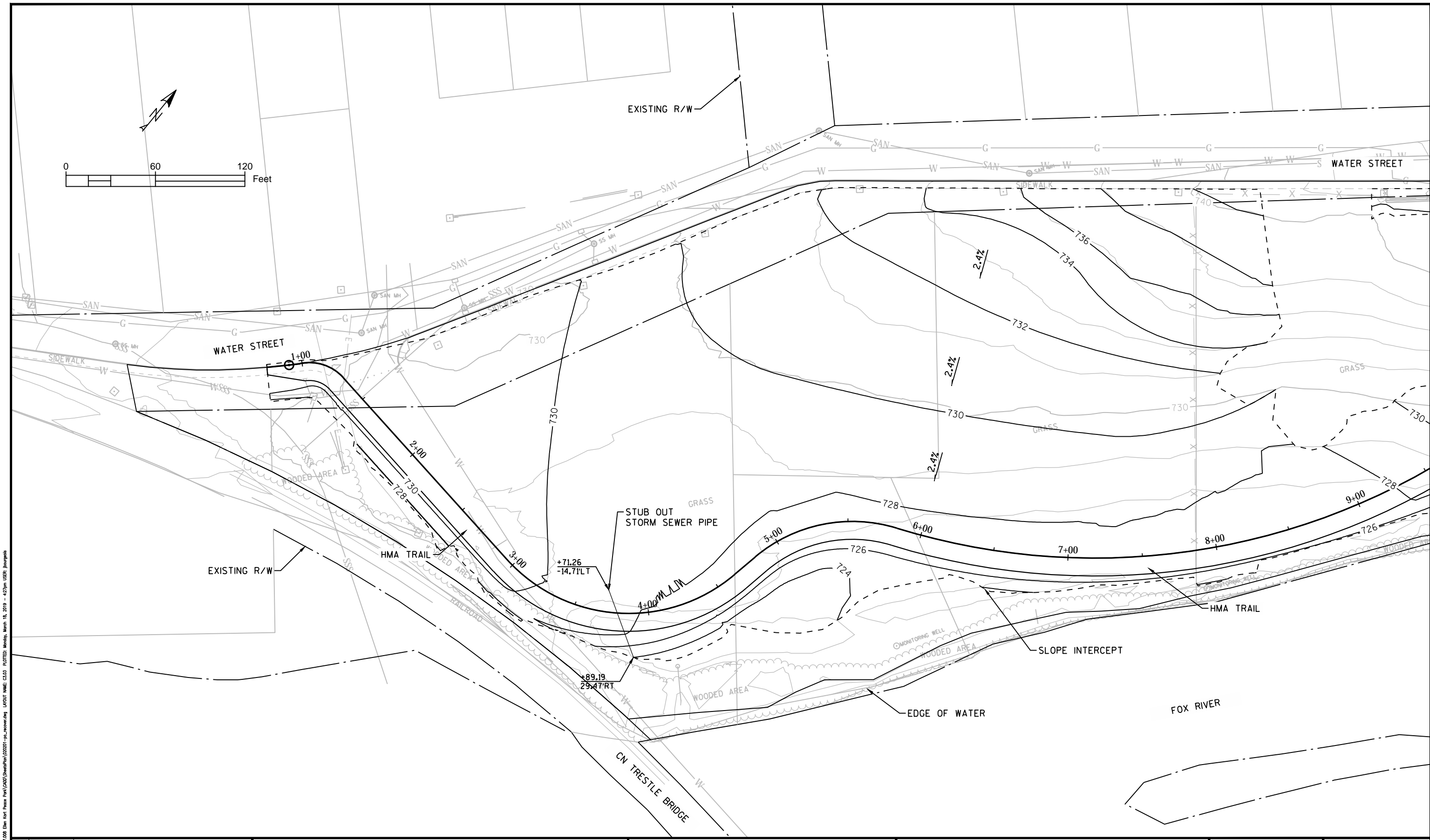
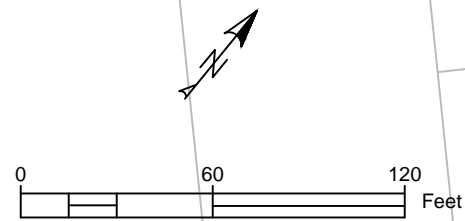
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **REMOVALS**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	C3.01	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		

FILE NAME: E:\Green Bay\Projects\Appleton_City\21877.008_Ellen_Kort_Peace_Park\Drawings\Sheet\21877.008_C3.01.dwg PLOT DATE: Monday, March 18, 2019 - 4:23pm USER: jbrunfeld



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 PLOTTED: Monday, March 18, 2019 - 4:27pm
 USER: jcb

REV.	DATE	DESCRIPTION

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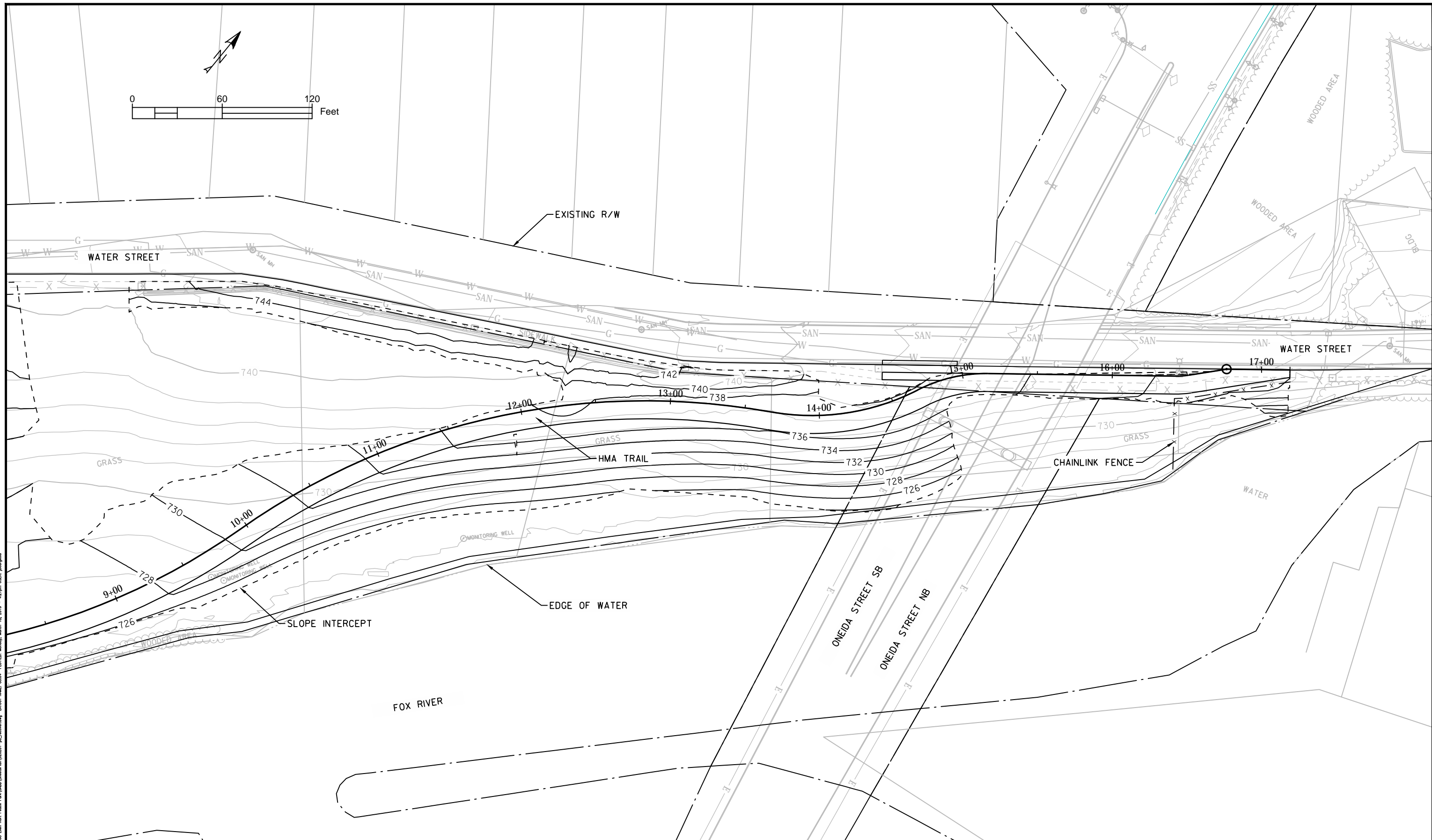
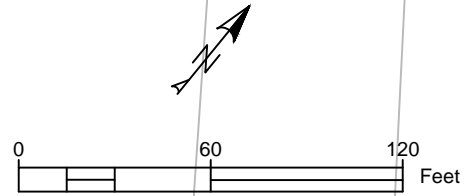
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **GRADING PLAN**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	C3.03	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		



FILE NAME: E:\Green Bay\Projects\Appleton_City\21877_008_Ellen_Kort_Peace_Park\Drawings\Grading\Grading_Plan.dwg
 USER: jcb
 PLOTTED: Monday, March 18, 2019 - 4:27pm
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **GRADING PLAN**

Project No.:	21877.008
Designed By:	RH
Drawn By:	JCB
Checked By:	RH
Approved By:	RH

Date: 03/18/2019

C3.04

NOTES

POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.

KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.

SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.

INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO THE FOX RIVER), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.

INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING.

INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA.

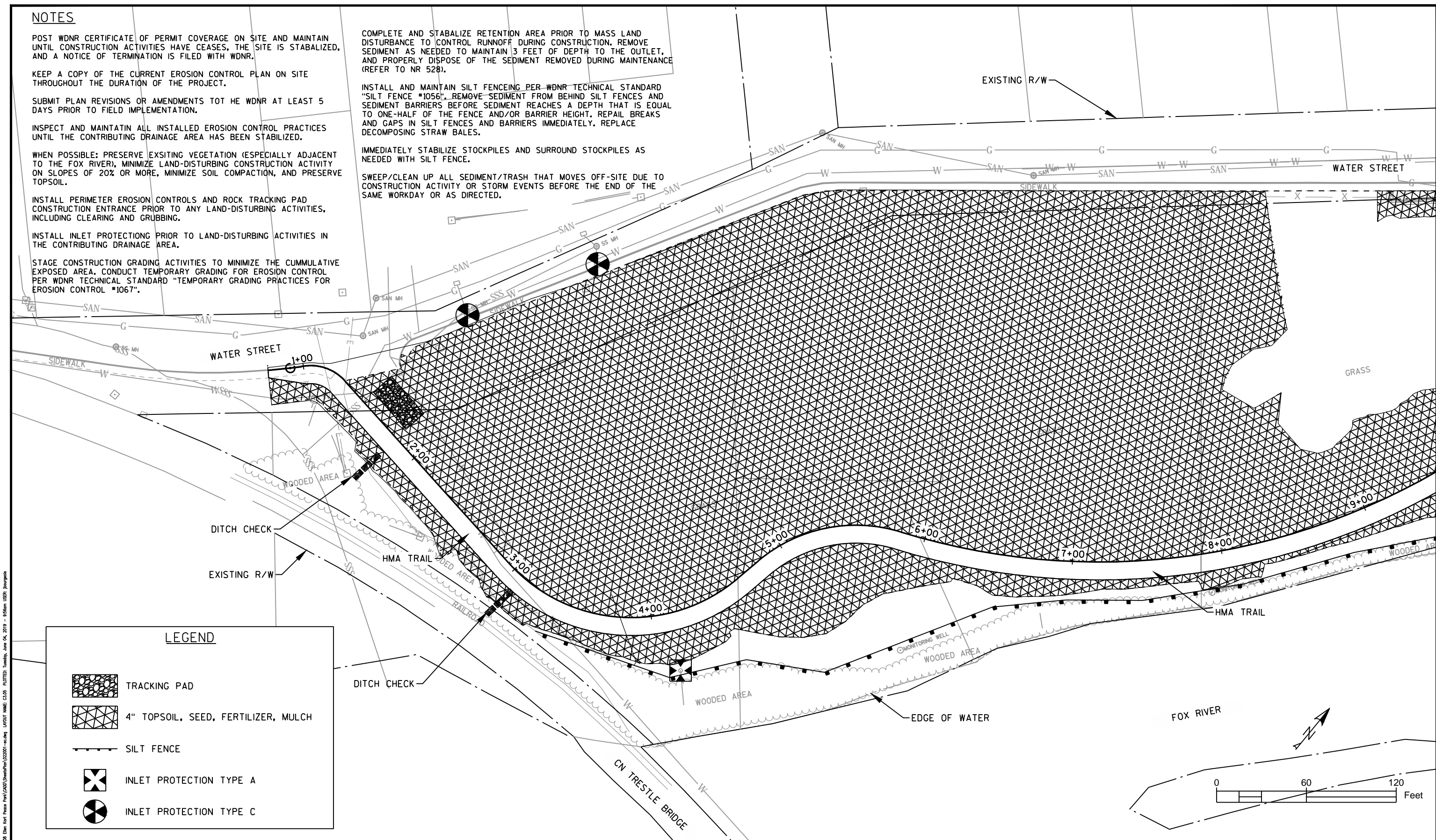
STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD "TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067".

COMPLETE AND STABILIZE RETENTION AREA PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF THE SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528).






INSTALL AND MAINTAIN SILT FENCEING PER WDNR TECHNICAL STANDARD "SILT FENCE #1056". REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT, REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES.

IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE.

SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED.



LEGEND

-  TRACKING PAD
-  4" TOPSOIL, SEED, FERTILIZER, MULCH
-  SILT FENCE
-  INLET PROTECTION TYPE A
-  INLET PROTECTION TYPE C

FILE NAME: P:\Green Bay\Projects\Appleton_City\21877_008_Erosion Control Plans\Drawings\21877_008_Erosion Control Plans\21877_008_Erosion Control Plans.dwg PLOTTED: Tuesday, June 04, 2019 11:58am USER: jiangyong

REV.	DATE	DESCRIPTION

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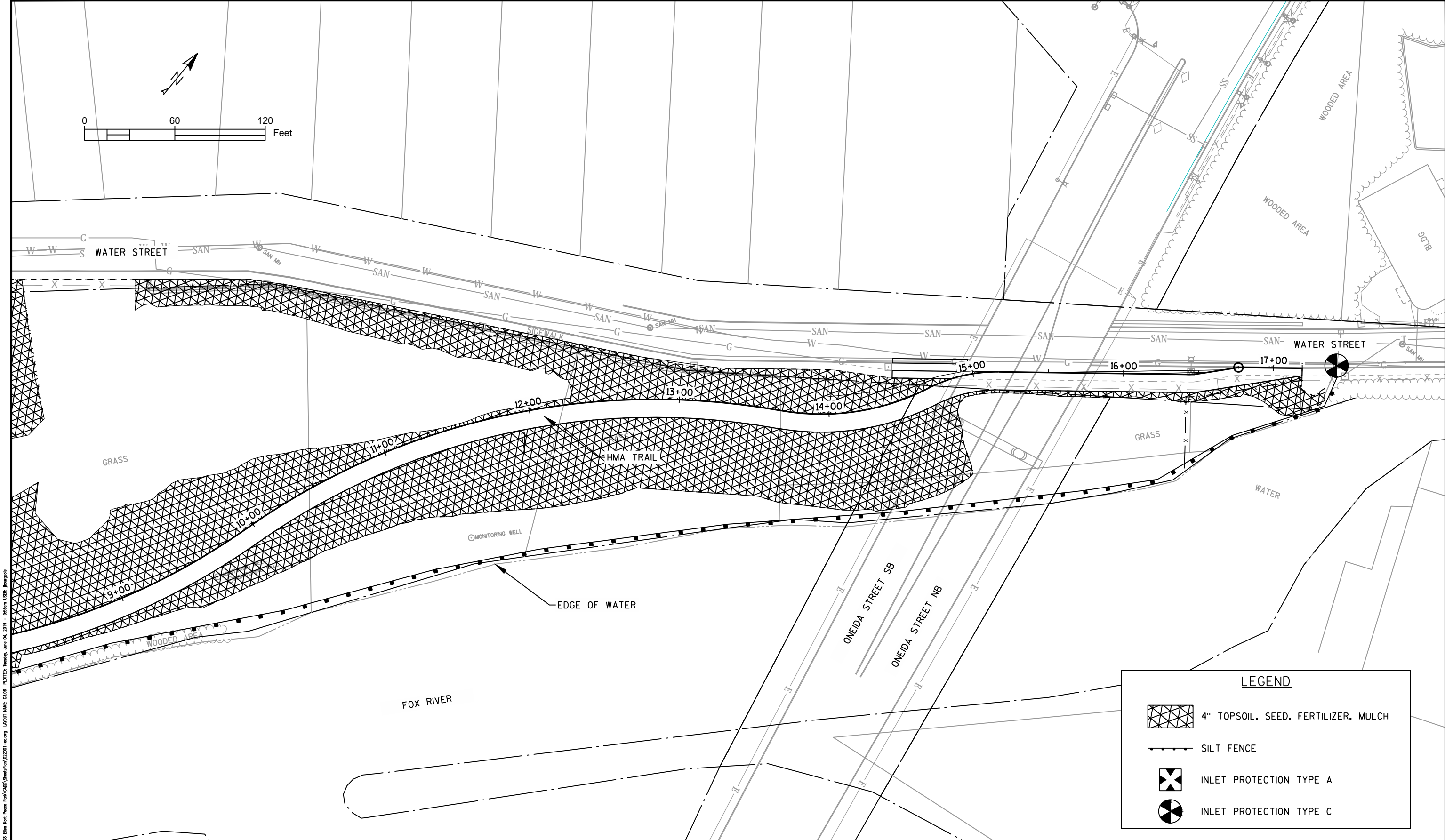
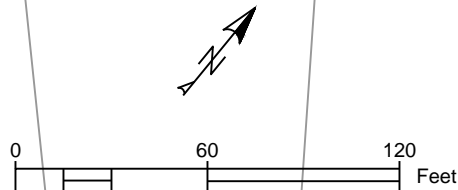
**PATRICK
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **EROSION CONTROL**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	VK	C3.05	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		



LEGEND	
	4" TOPSOIL, SEED, FERTILIZER, MULCH
	SILT FENCE
	INLET PROTECTION TYPE A
	INLET PROTECTION TYPE C

REV.	DATE	DESCRIPTION

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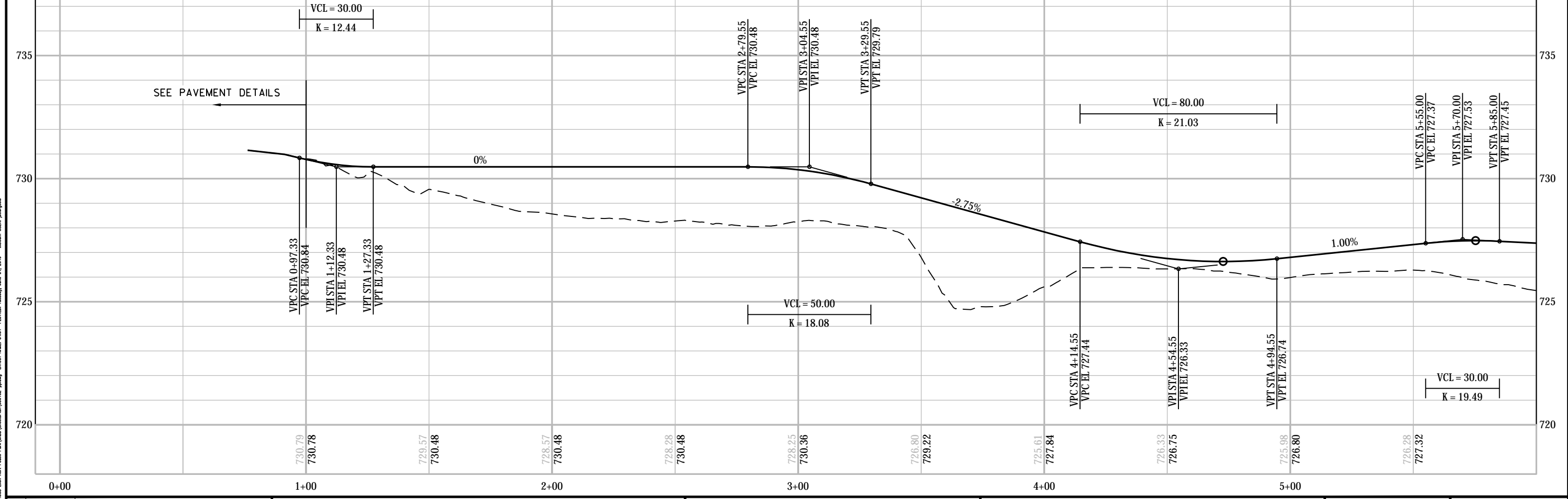
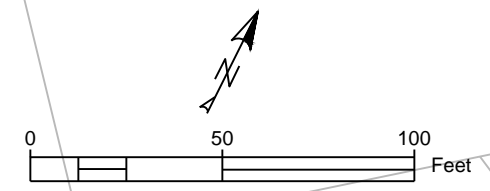
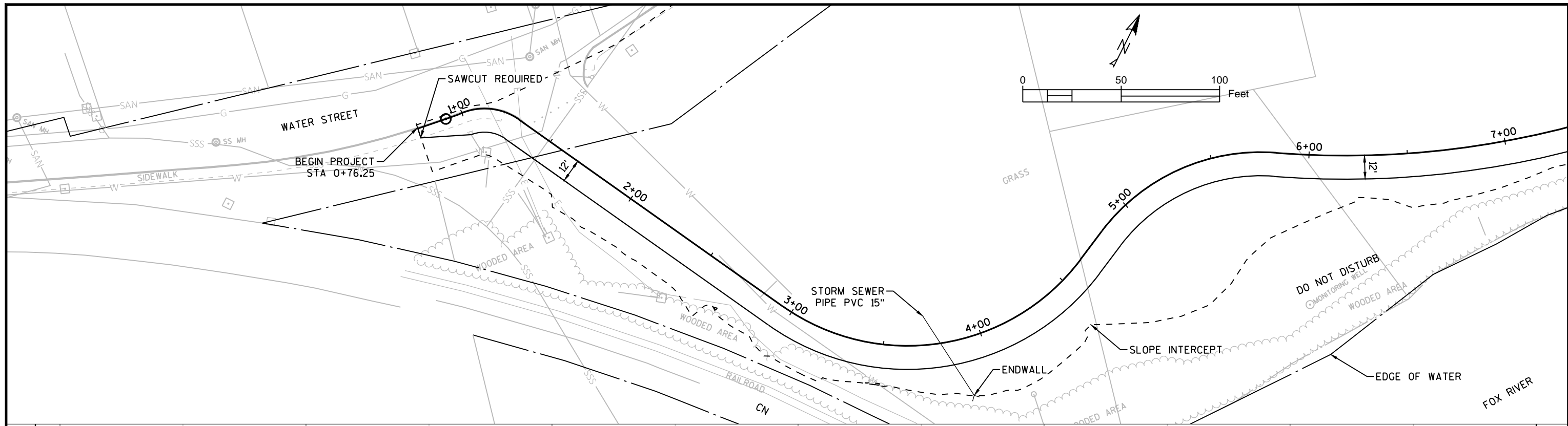
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **EROSION CONTROL**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	VK	C3.06	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		

FILE NAME: E:\Green Bay\Projects\Appleton_City\21877.008_Ellen Kort Peace Park\Drawings\21877.008_C3.06_PATRICK.dwg PLOTTED: Tuesday, June 04, 2019 - 10:58am USER: jiangmiao



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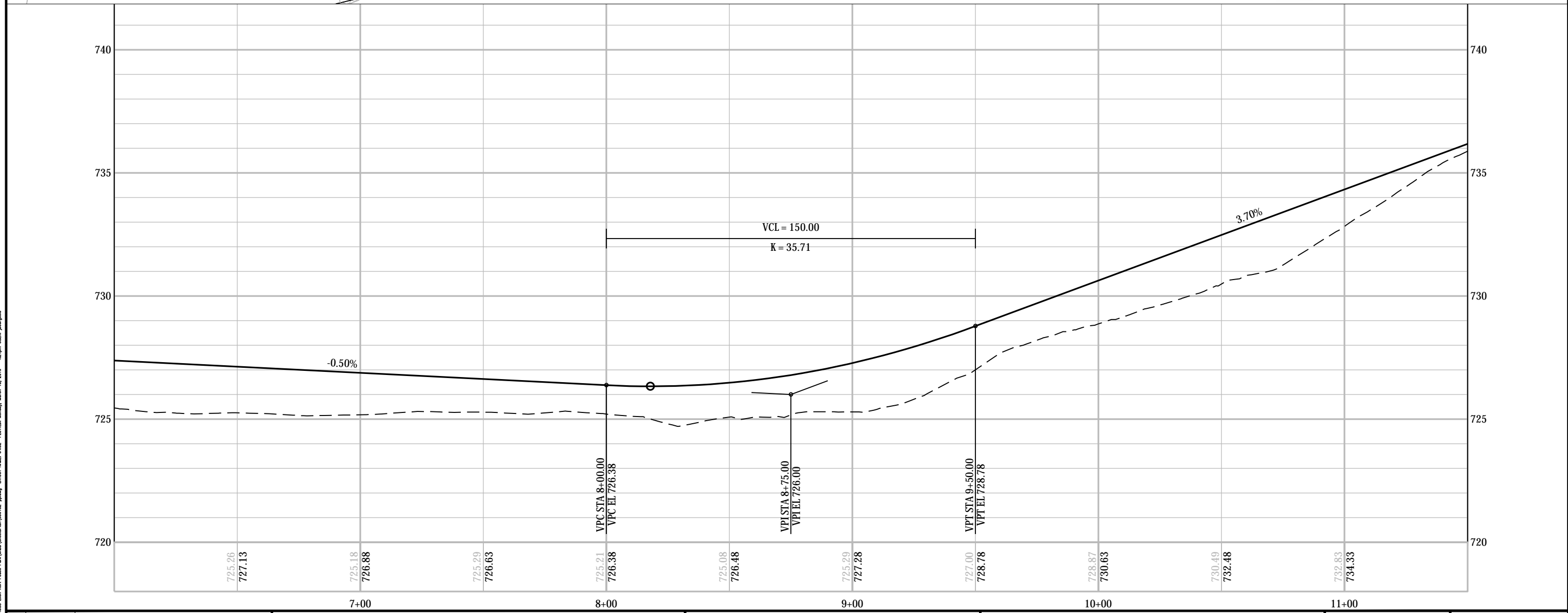
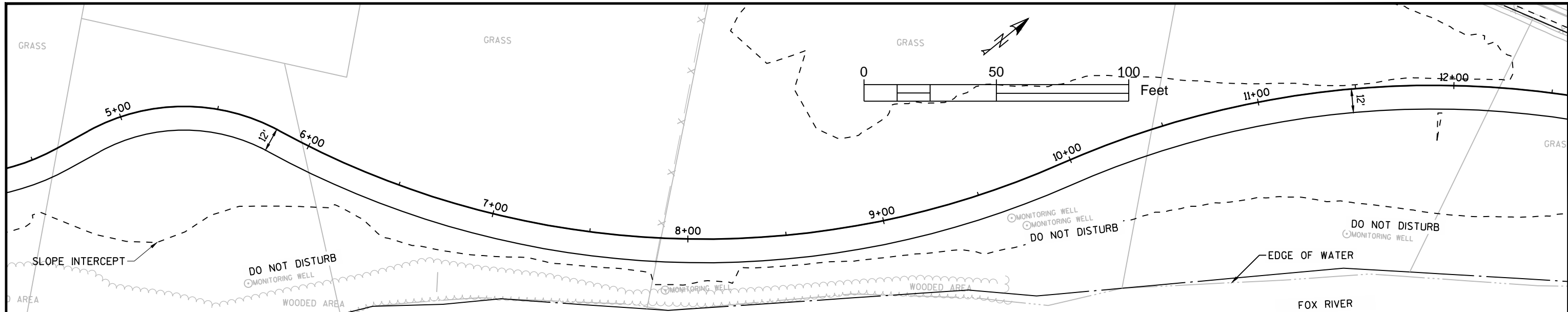
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **PLAN AND PROFILE**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	VK	C4.01	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		

FILE NAME: P:\Users\Bry\Projects\Appleton_City\21877.008_Ellen_Kort_Peace_Park\Drawings\030122-ppr.dwg LAYOUT: NAME: C4.01 PLOTDATE: Tuesday, June 04, 2019 1:56pm USER: jacobg



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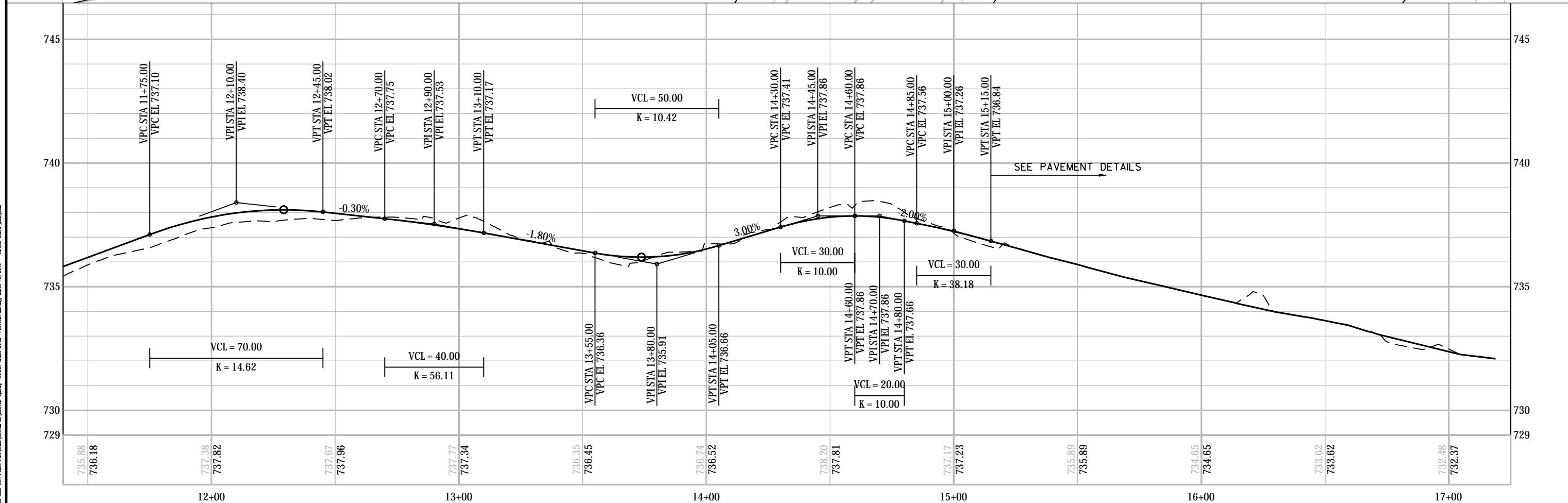
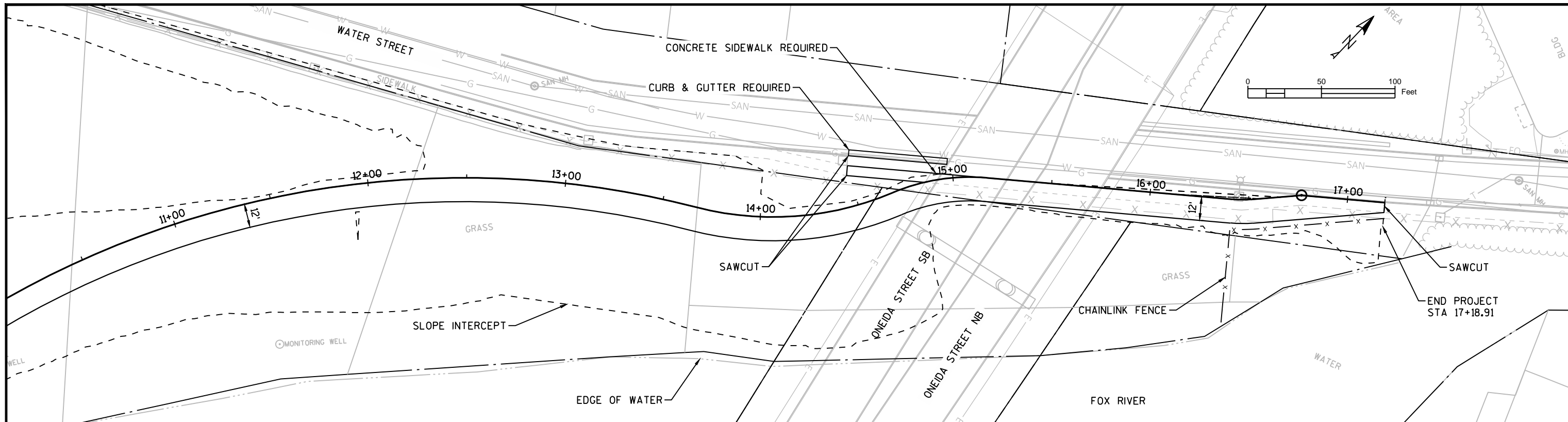
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Project: **ELLEN KORT PEACE PARK TRAIL**
Sheet Title: **PLAN AND PROFILE**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	C4.02	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		

FILE NAME: P:\Users\Bj\Projects\Appleton_City\21877.008_Ellen_Kort_Peace_Park\Drawings\030122-ppr.dwg LAYOUT: NAME: C4.02 PLOTDATE: Monday, March 18, 2019 - 4:26pm USER: jbarge



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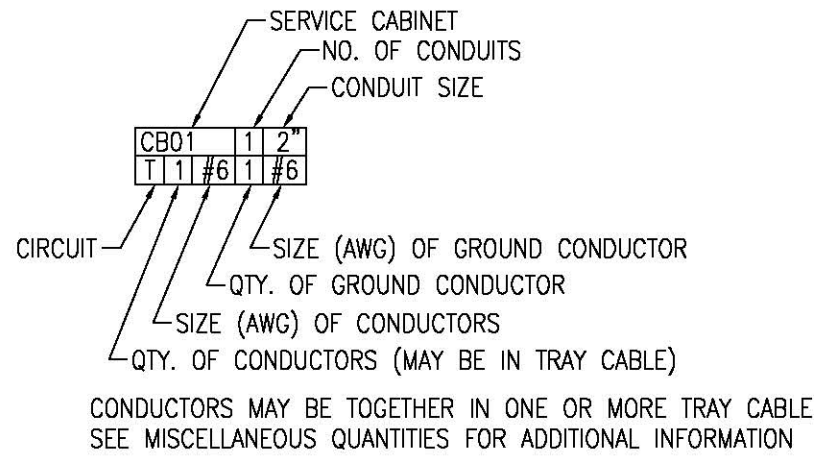
Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **PLAN AND PROFILE**

Project No.:	21877.008	Date:	03/18/2019
Designed By:	RH	C4.03	
Drawn By:	JCB		
Checked By:	RH		
Approved By:	RH		

FILE NAME: P:\Green Bay\Projects\Appleton_City\21877.008_Ellen Kort Peace Park\Drawings\030122-plan.dwg USER: JMM: C:\03 - PLOTTER: Monday, March 18, 2019 - 4:26pm (EST) - JMM

CONDUIT/CONDUCTOR LEGEND:



ABBREVIATIONS:

- A – AMPERE
- AWG – AMERICAN WIRE GAUGE
- CB– CIRCUIT BREAKER
- CKT – CIRCUIT
- CR – CONTROL RELAY
- GFI – GROUND-FAULT INTERRUPTING
- GND – GROUND
- LC – LIGHTING CONTACTOR
- NTS – NOT TO SCALE
- PH – PHASE
- TYP – TYPICAL
- U.N.O. – UNLESS NOTED OTHERWISE
- V – VOLTAGE
- VA – VOLT AMPS
- WP – WEATHER-PROOF

LEGEND

- TRAFFIC SIGNAL OR LIGHTING CONTROL CABINET
- $(X), [X]$ TOTAL NUMBER OF CONDUITS IN SAME TRENCH
- {X} = NUMBER OF 3-INCH SCH 80 RIGID NONMETALLIC CONDUITS
- (X) = NUMBER OF 2-INCH SCH 80 RIGID NONMETALLIC CONDUITS
- [X] = NUMBER OF 1 1/2-INCH SCH 80 RIGID NONMETALLIC CONDUITS
- 12 X 24 – INCH PULL BOX OR AS NOTED
- 24 X 42 – INCH PULL BOX OR AS NOTED
- CONCRETE BASE, TYPE AS NOTED
- CONDUIT INTERCEPT AS NOTED
- COMMUNICATIONS VAULT
- STUB & CAP CONDUIT FOR FUTURE CONNECTION WHERE SHOWN
- TB X = TRAIL LIGHT BASE NUMBER
- PB X = PULL BOX NUMBER
- CV X = COMMUNICATION VAULT NUMBER
- INT X = EXISTING CONDUIT INTERCEPT NUMBER
- STUB X = STUB & CAP CONDUIT NUMBER
- = TRAIL LIGHT POLE & FIXTURE
(PHILIPS LUMEC CANDELA SERIES, BLACK POLE & FIXTURE)
- = CIRCUIT BREAKER
- = NORMALLY OPEN CONTACT
- = OPERATING COIL (CR-CONTROL RELAY, LC-LIGHTING CONTACTOR)
- SELECTOR SWITCH X INDICATES CONTACT CLOSED IN CORRESPONDING SWITCH POSITION
- F1 ← FIXTURE NUMBER
- 1,3 ← CIRCUIT NUMBER
- WEATHER-PROOF GROUND-FAULT INTERRUPTING RECEPTACLE

GENERAL NOTES:

1. SEVERAL CONCRETE BASES TO BE SET IN CLOSE PROXIMITY TO PRIVATE UTILITIES.
2. ALL CONCRETE BASES SHALL BE CONSTRUCTED AFTER NEARBY TRAIL IS POURED TO ACCURATELY REFERENCE THE FINISH GRADE AND PLACEMENT.
3. THE CITY WILL FIELD MARK THE EXACT LOCATION OF ALL ELECTRICAL RELATED ITEMS AT THE TIME OF CONSTRUCTION. ADJUSTMENTS FOR FIELD CONDITIONS MAY BE MADE AT TIME OF INSTALLATION. SEE ELECTRICAL SPECIFICATIONS FOR CONTACT INFORMATION.
4. INSTALL AN EQUIPMENT GROUNDING LUG IN EACH METALLIC PULL BOX.
5. THE CITY'S TRAFFIC SECTION WILL FURNISH AND INSTALL STREET LIGHTING CONTROL CABINET AFTER ALL CABLE AND WIRE HAS BEEN INSTALLED. LABEL ALL CABLE RUNS TO CITY TO TERMINATE IN CABINET.
6. THE CITY'S TRAFFIC SECTION WILL FURNISH AND INSTALL METER BREAKER PEDESTAL, AND COORDINATE NEW ELECTRICAL SERVICE INSTALLATIONS AND REMOVALS WITH WE ENERGIES.
7. IN THE INTEREST OF PUBLIC SAFETY, SOME CITY & WE ENERGIES OWNED STREET LIGHT POLES AND OVERHEAD FEEDS SHALL REMAIN UNTIL NEW STREET LIGHTING IN THIS PROJECT IS INSTALLED AND OPERATIONAL. SEE CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION.
8. PROVIDE ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THE ELECTRICAL WORK SPECIFIED. COMPLY WITH NATIONAL ELECTRICAL CODE, NFPA, NEMA, ANSI, IES, IEEE, U.L., LOCAL JURISDICTION ELECTRICAL CODES, ALL OTHER APPLICABLE LOCAL CODES, AMENDMENTS AND ORDINANCES.

CONSTRUCTION NOTES:

- ① INTERCEPT EXISTING PVC CONDUITS WHERE NOTED ON THE PLANS. REMOVAL AND INSTALL OF LIGHT CABLE BY OTHERS (CITY OF APPLETON). WORK INCIDENTAL TO CONDUIT INSTALL.
- ② STUB 3-INCH CONDUIT FOR WE ENERGIES ELECTRICAL SERVICE. 3-INCH CONDUIT TO BE PLOWED OR TRENCHED SEPARATE FROM OTHER CONDUITS. FINAL STUD LOCATION TBD.
- ③ ROUTE ALL UNDERGROUND CONDUITS ADJACENT TO THE TRAIL AS INDICATED ON PLANS. ROUTE ALONG THE TRAIL, TYPICALLY WITHIN 5 FEET TO THE EDGE OF TRAIL. EXACT ROUTING TO BE COORDINATED WITH THE CITY DURING CONSTRUCTION.
- ④ PROVIDE A TRACER WIRE (COPPERHEAD SUPERFLEX OR SIMILAR) ALONG THE ENTIRE LENGTH OF EACH UNDERGROUND RACEWAY. INCLUDE 3 LOCATOR TEST POST STATIONS. COORDINATE FINAL LOCATION WITH THE CITY.
- ⑤ EXCAVATE AND BACKFILL A TRENCH TO ROUTE ALL UNDERGROUND CONDUITS PER THE CITY REQUIREMENTS. PROVIDE A MINIMUM OF 6" COMPACTED SAND BEDDING BASE. EMBED CONDUITS IN SAND/PEA GRAVEL MIX WITH 6" MINIMUM TOP BEDDING. BACKFILL WITH COMPACTED SOIL PASSING A ONE-INCH SIEVE. INSTALL RED WARNING TAPE 12" BELOW GRADE.

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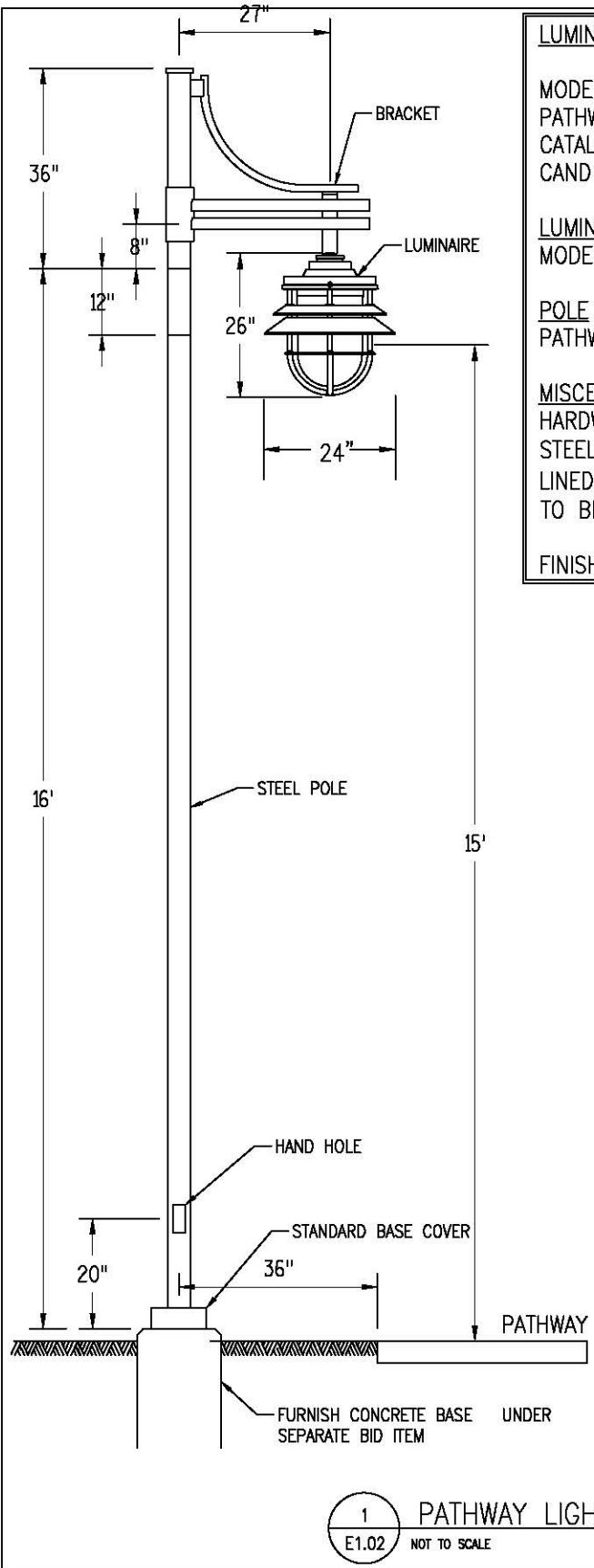
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **ELECTRICAL
SYMBOLS, ABBREVIATIONS, GENERAL NOTES**

Project No.:	21877.008	Date:	05/10/2019
Designed By:	VK	E1.01	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		

FILE NAME: P:\Green Bay\Projects\Appleton City\21877.008 - Blue Kirt Peace Park\LD03\Sheets\E1.02 - E1.02.dwg PLOTTER NAME: E1.02 PLOTTED: Friday, May 10, 2019 10:24am USER: jacobgale



LUMINAIRE – INSTALL NEW

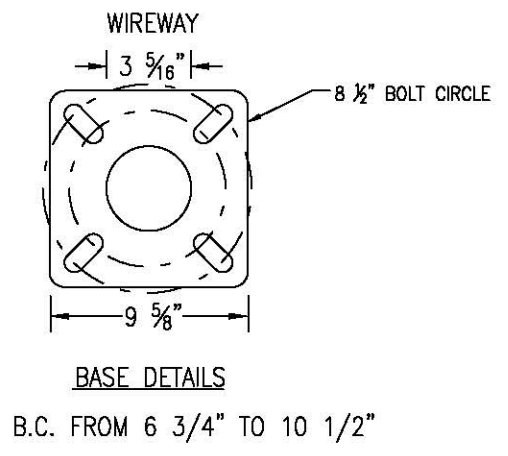
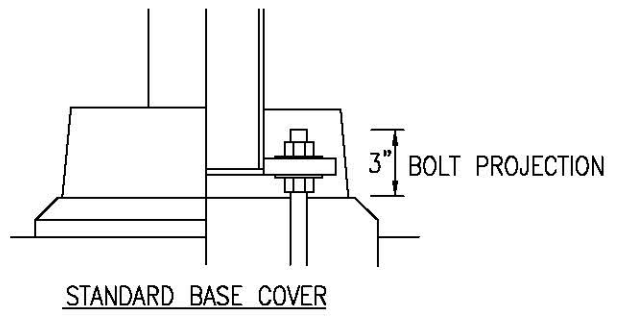
MODEL: CANDELA SERIES
 PATHWAY LAMP: 40W, 42 LED, 4K, TYPE 3 DISTRIBUTION, 240V
 CATALOGUE NUMBER:
 CAND1-40W42LED4K-R-PC-C-RLE3-240-GFI-BKTX

LUMINAIRE ARM
 MODEL: CN1-1A

POLE
 PATHWAY POLE: SPR4N-16-LBC4C-BKTX

MISCELLANEOUS
 HARDWARE: ALL EXPOSED SCREWS WILL BE IN STAINLESS STEEL. ALL SEALS AND SEALING DEVICES ARE MADE AND/OR LINED WITH EPDM AND/OR SILICONE. 20 AWP GFI RECEPTABLE TO BE TOP MOUNTED AT A HEIGHT TO BE DETERMINED.

FINISH: COLOR TO BE BLACK



1 PATHWAY LIGHTING UNIT
 E1.02 NOT TO SCALE

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

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Owner/Client:

**CITY OF APPLETON
 PARKS & RECREATION DEPARTMENT**

**PATRICK
 ENGINEERING**

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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **ELECTRICAL LIGHTING DETAILS**

Project No.:	21877.008	Date:	05/10/2019
Designed By:	VK	E1.02	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		

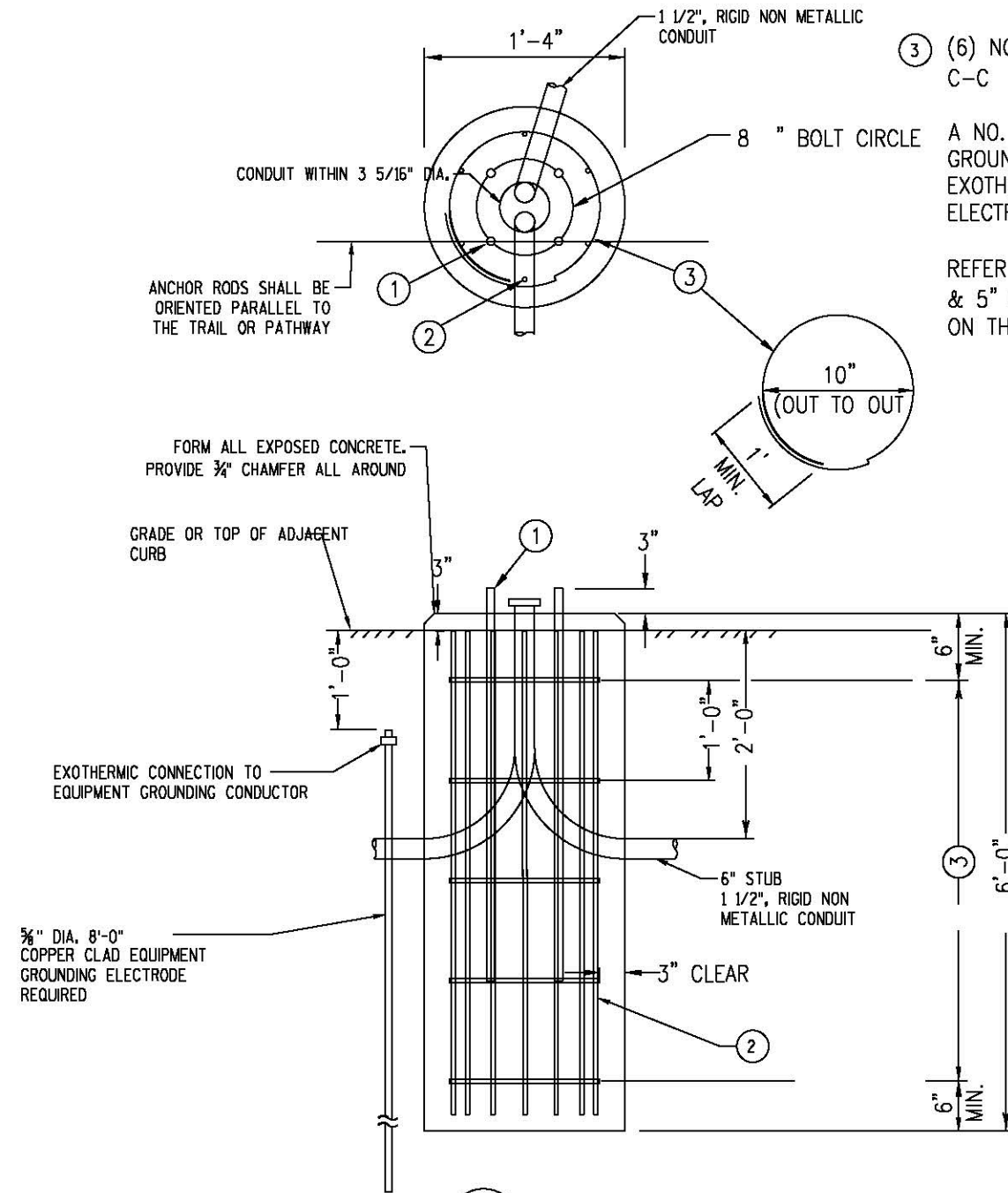
QUANTITY REQUIREMENTS	CONCRETE BASE, TRAIL TYPE A
APPROX. CUBIC YARDS OF CONCRETE	0.31
LBS. OF HOOP BAR STEEL	12.57
LBS. OF VERTICAL BAR STEEL	22

GENERAL NOTES:

- ① TYPE AND DEPTH OF ANCHOR BOLT AS PER MANUFACTURER SPECIFICATIONS
- ② (7) NO. 4 BAR STEEL REINFORCEMENT SPACED EQUALLY AROUND.
(7) NO. 4 X 5'-6" BAR STEEL
- ③ (6) NO. 4 BAR STEEL REINFORCEMENT AT 1'-0" C-C (6) NO. 4 X 3'-8" BAR STEEL

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE GROUNDING ELECTRODE.

REFER TO S.D.D. "CONCRETE BASES TYPES 1, 2, & 5" FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET



1 CONCRETE BASE, CITY TRAIL TYPE A DETAIL
E1.03 NOT TO SCALE

FILE NAME: P:\Green Bay\Project\Appleton City\21877.008 - Ellen Kort Peace Park\Drawings\E1.03 - Concrete Base.dwg USER: jcb DATE: 05/10/2019 10:58am USDS Bourgeois

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS
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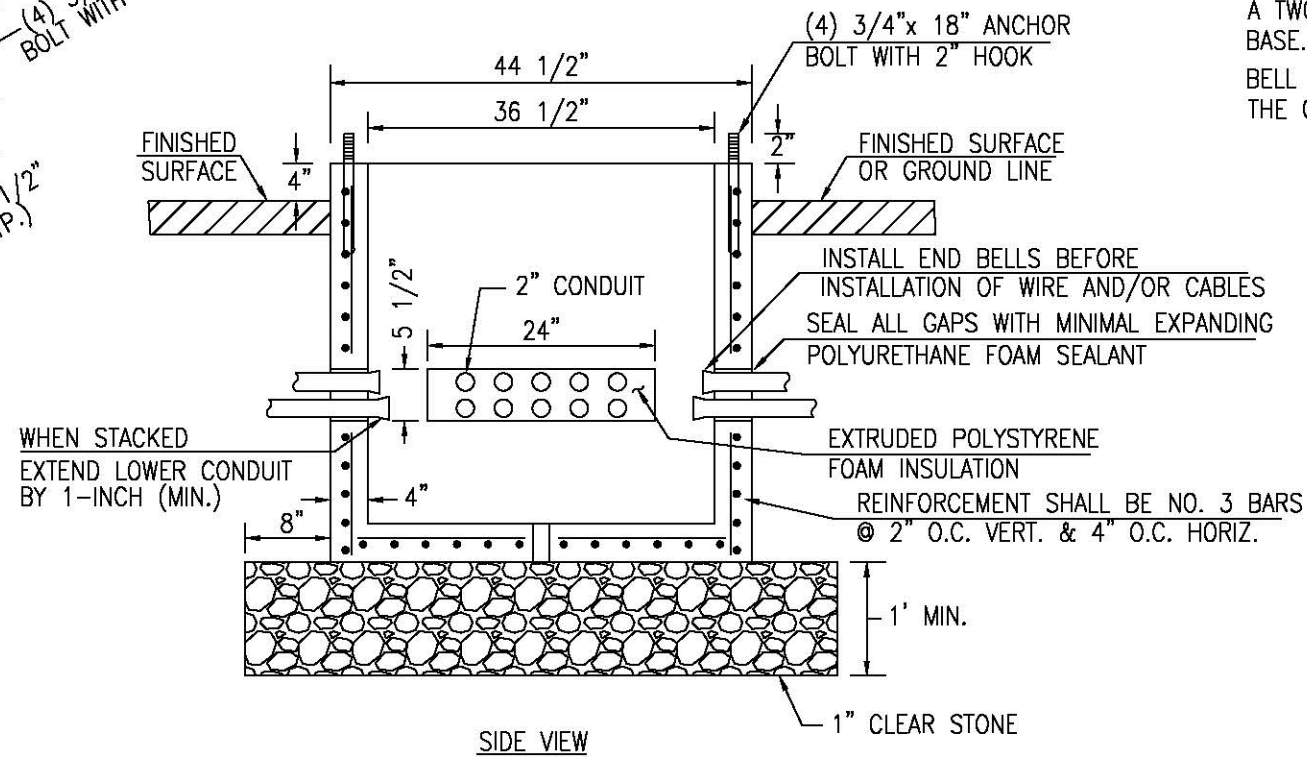
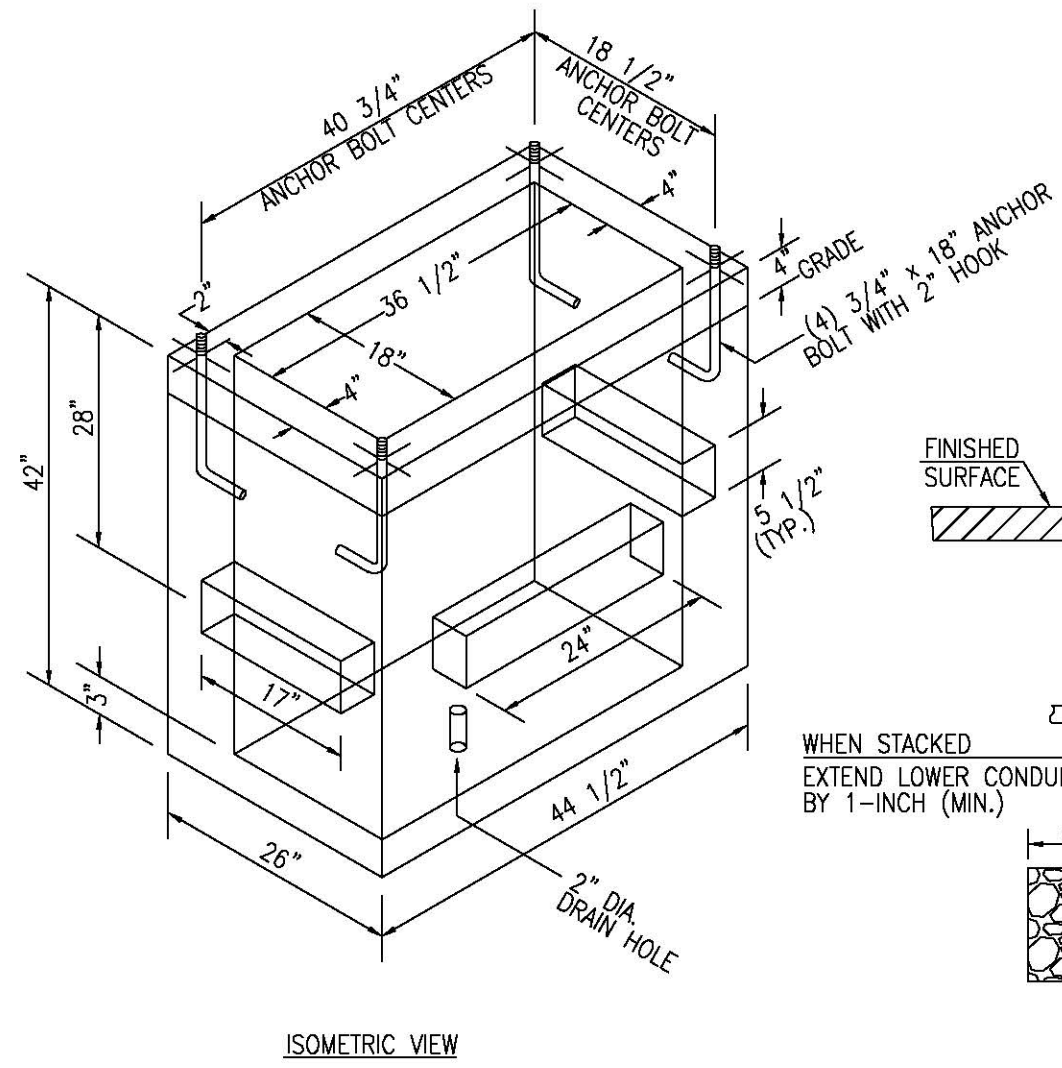
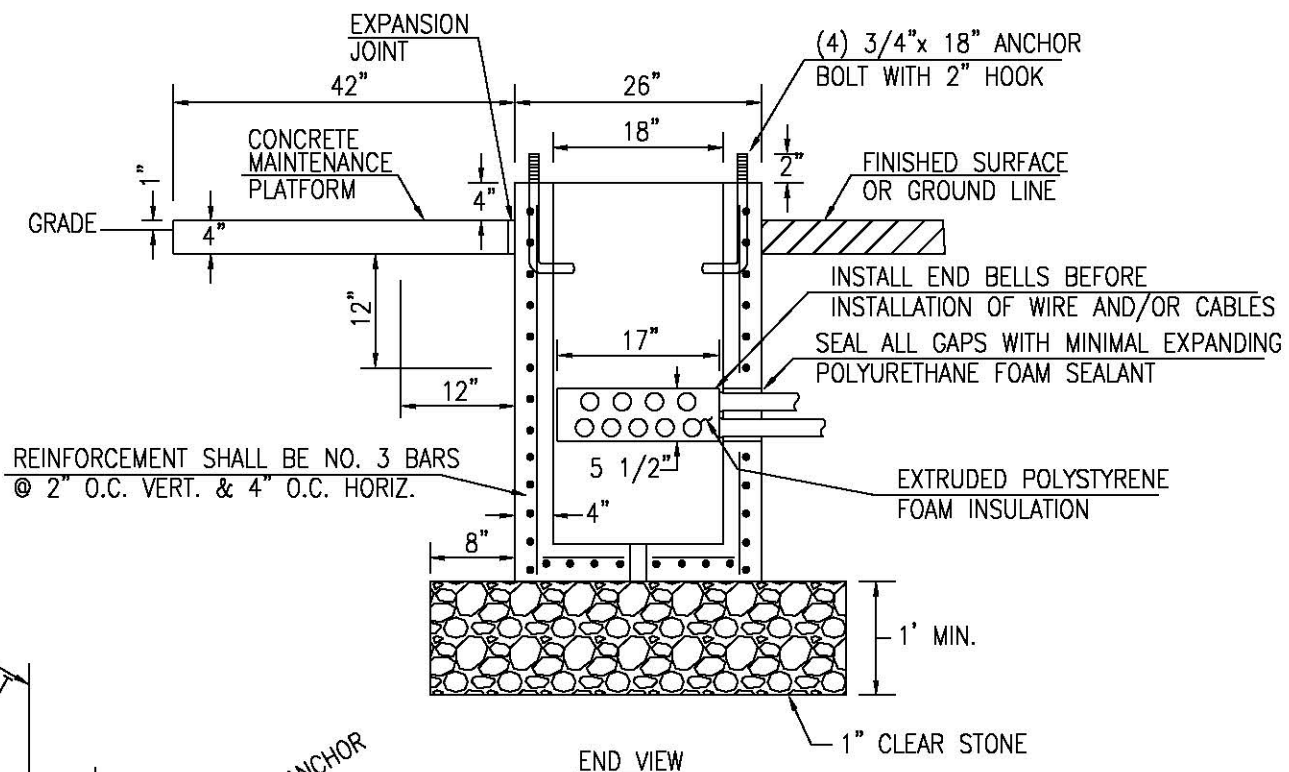
Owner/Client:
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Project: **ELLEN KORT PEACE PARK TRAIL**
Sheet Title: **ELECTRICAL LIGHTING DETAILS**

Project No.:	21877.008	Date:	05/10/2019
Designed By:	VK	Drawn By:	JCB
Checked By:	VK	Approved By:	RH

E1.03



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

CONDUITS SHALL EXTEND BEYOND FACE OF CONCRETE WALL 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE CONCRETE BASE WALLS SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

A TWO-INCH DIAMETER DRAIN HOLE IS REQUIRED AT THE BOTTOM OF THE BASE.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE WALL OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

1
E1.06 NOT TO SCALE

CONCRETE CONTROL CABINET BASE, SPECIAL FURNISHED BY CITY OF APPLETON, CONTRACTOR INSTALLATION

FILE NAME: P:\Users\Bryant\Projects\Appleton_City\21877\008_Elec_Kort_Peace_Park\Drawings\E1.04.dwg PLOTTED: Friday, May 10, 2019 10:58am USER: Bourgeois

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS
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Owner/Client:

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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **ELECTRICAL CONTROL CABINET DETAILS**

Project No.:	21877.008	Date:	05/10/2019
Designed By:	VK	E1.04	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		

LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER	CATALOG NUMBER	LAMP			BALLAST TYPE	SHIELDING	MOUNTING	INPUT VA	INPUT VOLTAGE	NOTES	DESCRIPTION
			NO	TYPE	LUMENS							
P1	PHILIPS LUMEC CANDELA	FIXTURE: CAND1-CN1-1A-40W42LED4K-R-PCC-RLE5-240-GFI-BK/TX POLE: SPR4N-16-LBC4C-BK/TX	1	40WLED	4093	N/A	ACRYLIC REFRACTOR	POLE	58	240	WITH TOP MOUNTED 20AWP GFI RECEPTACLE @ HEIGHT TBD	BLACK FINISH

GENERAL NOTES:

- 1) THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LIGHTING FIXTURES LOCATIONS, TYPE AND MANUFACTURER WITH THE CITY OF APPLETON. THE LIGHTING FIXTURE SCHEDULE IS FOR GENERAL REFERENCE ONLY.
- 2) LIGHTING FIXTURES SHALL HAVE APPROPRIATE UL, DAMP, OR WET LABEL AS REQUIRED BY LOCAL CODES.
- 3) CATALOG NUMBERS MAY BE INCOMPLETE. PROVIDE ALL OPTIONS AND ACCESSORIES INDICATED, AND AS REQUIRED FOR COMPLETED AND COORDINATED INSTALLATION.

LIGHTING CONTROL CABINET CB01

PANEL: CB01														BUS: 100 AMP VOLTAGE: 120/240 1Ø, 3 WRE													
ITEM	BKR SPEC	LOAD TYPE	AMP. RATING	POLE	CIR. NO.	LEFT PHASE LOAD		RIGHT PHASE LOAD		CIR. NO.	POLE	AMP. RATING	LOAD TYPE	BKR SPEC	ITEM												
						A	B	A	B																		
PATHWAY POLE LIGHTS (7)		L	20	2	1	203		174		2	2	20	L		PATHWAY POLE LIGHTS (6)												
		L	-	-	3		203		174	4	-	-	L														
RECEPTACLES (4)		R	20	1	5	1000		750		6	1	20	R		RECEPTACLES (3)												
RECEPTACLES (3)		R	20	1	7		750		750	8	1	20	R		RECEPTACLES (3)												
SPARE (LIGHTS)		S	20	2	9	0		0		10	1	20	S		SPARE (RECEPTACLES)												
		S	-	-	11		0		0	12	1	20	S		SPARE (RECEPTACLES)												
CONTROLLER		L	20	1	13	500		0		14	1	20	S		SPARE												
SPARE		S	20	1	15		0		0	16	1	20	S		SPARE												
SPARE		S	20	1	17		0		0	18	1	20	S		SPARE												
SPARE		S	20	1	19		0		0	20	1	20	S		SPARE												
SPARE		S	20	1	21		0		0	22	1	20	S		SPARE												
SPARE		S	20	1	23		0		0	24	1	20	S		SPARE												
CONNECTED LOAD (VA)						1703	953	924	924																		
CONNECTED LOAD PER PHASE (VA)						2627	1877																				

DEMAND					
TYPE	FACTOR	LOAD	TYPE	FACTOR	LOAD
L LIGHTING	1.25	1568	E EQUIPMENT	1.00	0
R RECEPTACLES	0.70	2275	S SPARE	1.00	0
M MOTORS	0.80	0	X SPACE	0.00	0

TOTAL CONNECTED LOAD	4504 VA
TOTAL DEMAND LOAD	3843 VA
TOTAL ESTIMATED DEMAND	16 AMPS

NOTES:

1. ALL CIRCUIT BREAKERS IN THE LIGHTING CONTROL CABINET CB01 SHALL BE GROUND FAULT PROTECTING TYPE CLASS A.

FILE NAME: P:\Green Bay\Project\Appleton CB01\21877.008 E1.06 PATRICK.dwg User: Kari Peace Plot: 03/20/2019 09:58:11 AM Scale: 1:1 Plot Date: 05/10/2019 10:58:00 AM Plotter: HP DesignJet T1100

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

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CITY OF APPLETON
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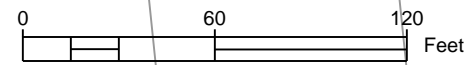
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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **ELECTRICAL SCHEDULES**

Project No.:	21877.008	Date:	05/10/2019
Designed By:	VK	E1.06	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		



CBO1	1	1 1/2"
A	2	#10

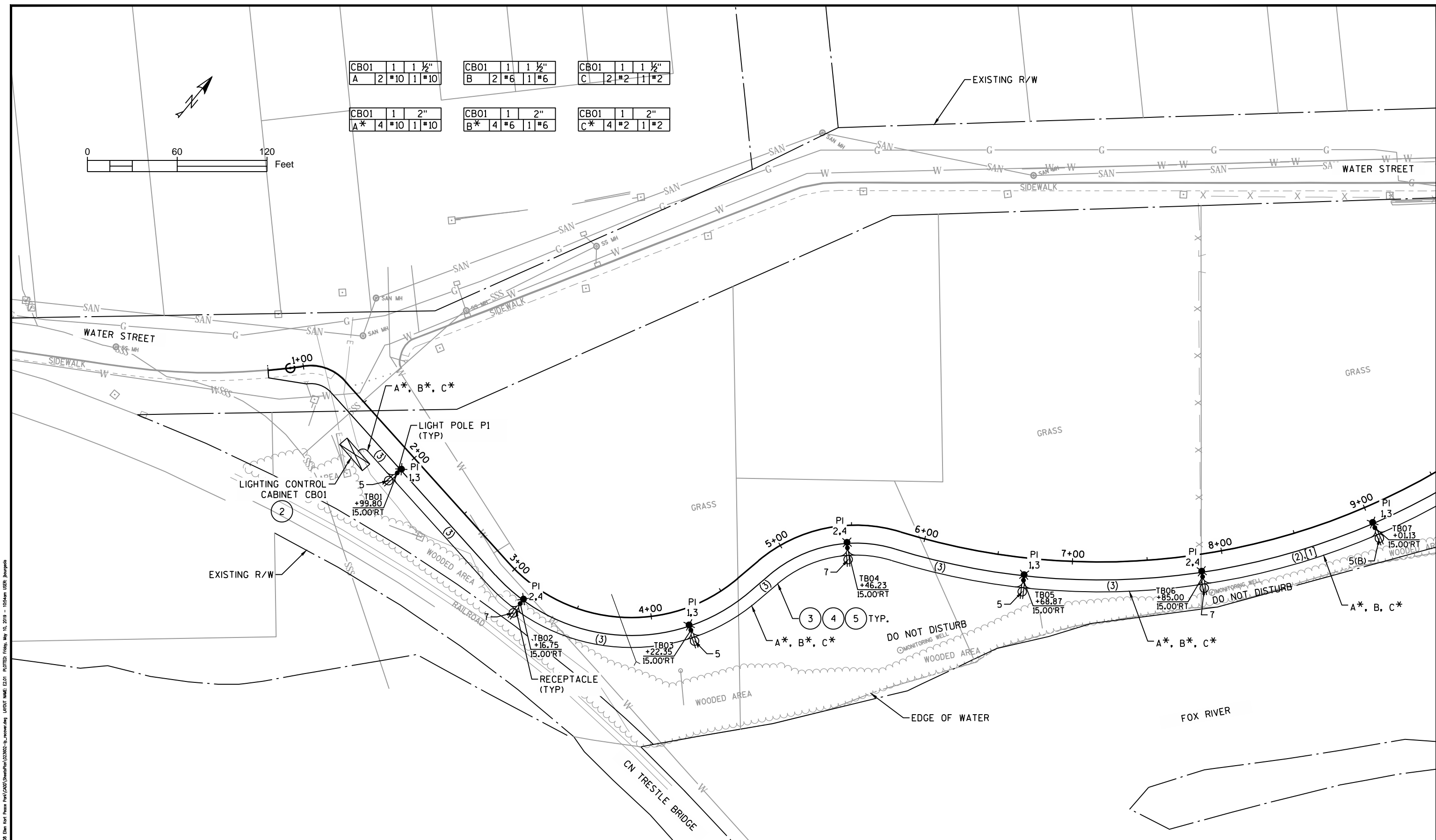
CBO1	1	1 1/2"
B	2	#6

CBO1	1	1 1/2"
C	2	#2

CBO1	1	2"
A*	4	#10

CBO1	1	2"
B*	4	#6

CBO1	1	2"
C*	4	#2



FILE NAME: E:\Green Bay\Projects\Openline - City\21877-008 - Ellen Kort Peace Park\Drawings\Lighting\Lighting Plan.dwg
 User: JCB
 Date: 05/10/2019 10:58:11 AM
 Project: ELLEN KORT PEACE PARK TRAIL
 Sheet: E2.01

REV.	DATE	DESCRIPTION

ISSUES & REVISIONS

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Owner/Client:

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Project: **ELLEN KORT PEACE PARK TRAIL**

Sheet Title: **LIGHTING PLAN**

Project No.:	21877.008	Date:	05/10/2019
Designed By:	VK	E2.01	
Drawn By:	JCB		
Checked By:	VK		
Approved By:	RH		

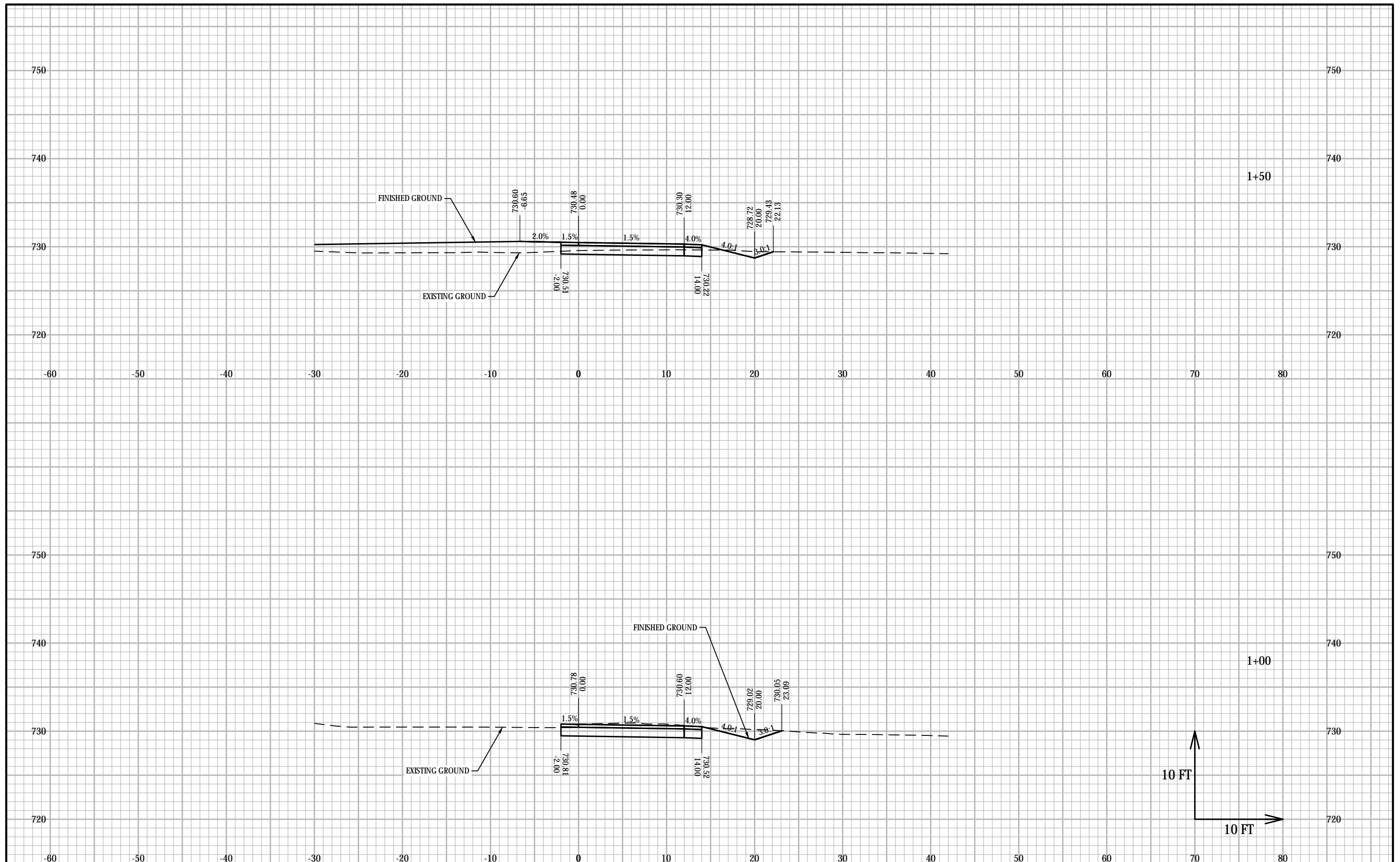
Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height -MH (ft.)/ Fixture Offsets (ft.)
	L	13	PHILIPS-LUMEC	CAND1-40W42LED4K-R-PC-C-RLE3	CAND1-40W42LED4K-R-PC-C-RLE3, TYPE III OPTICS, CLEAR, ACRYLIC, GLOBE	4000K, 42 LED (NW), LUXEON "R" BOARD	1	CAND1-40W42LED4K-R-PC-C-RLE3 (TR120881M).IES	4198.289	0.95	45	16 ft. MH / 120 ft. Offset

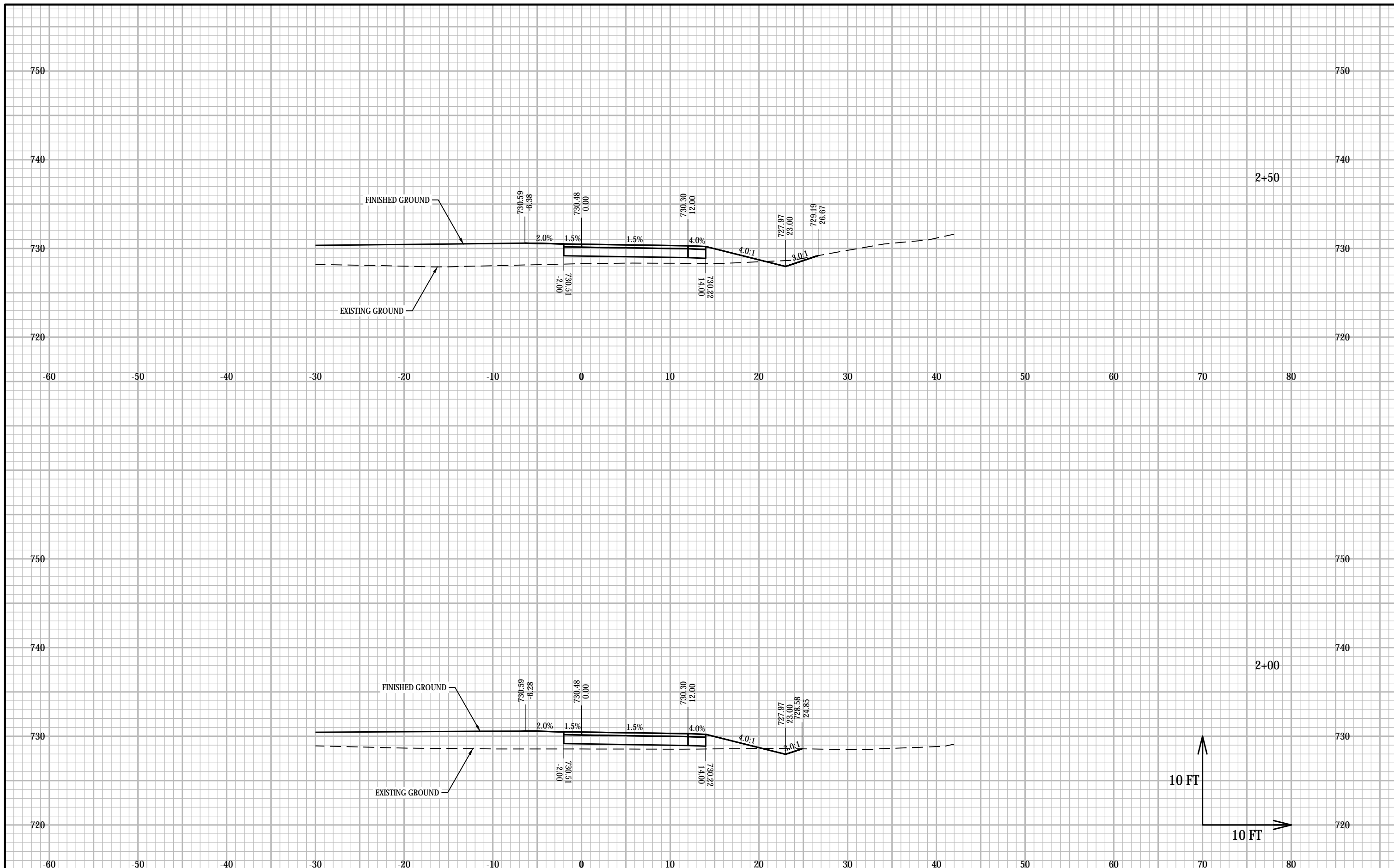
Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.0 fc	3.1 fc	0.0 fc	N/A	N/A

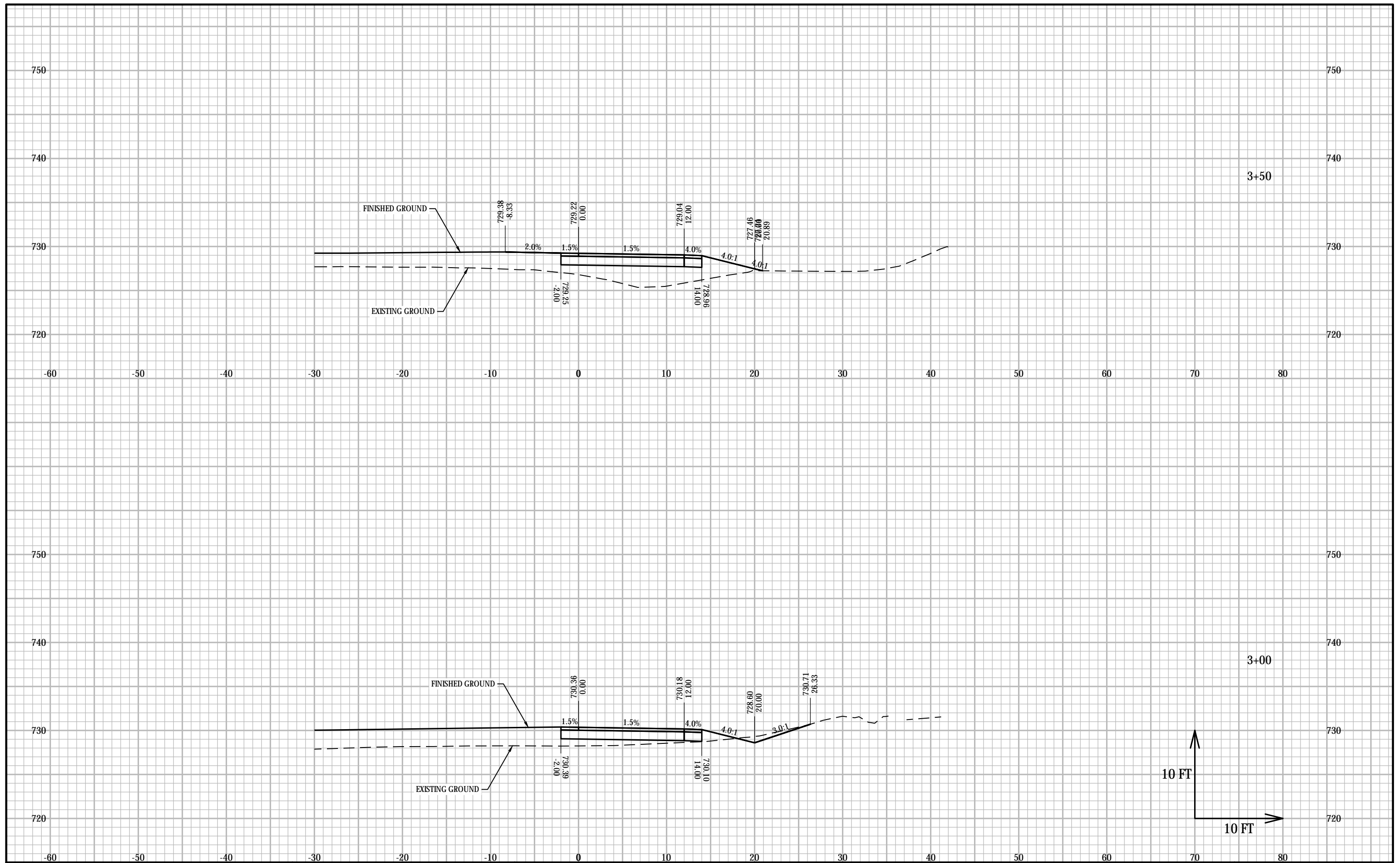




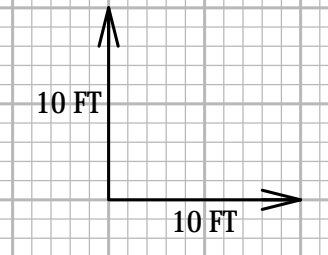
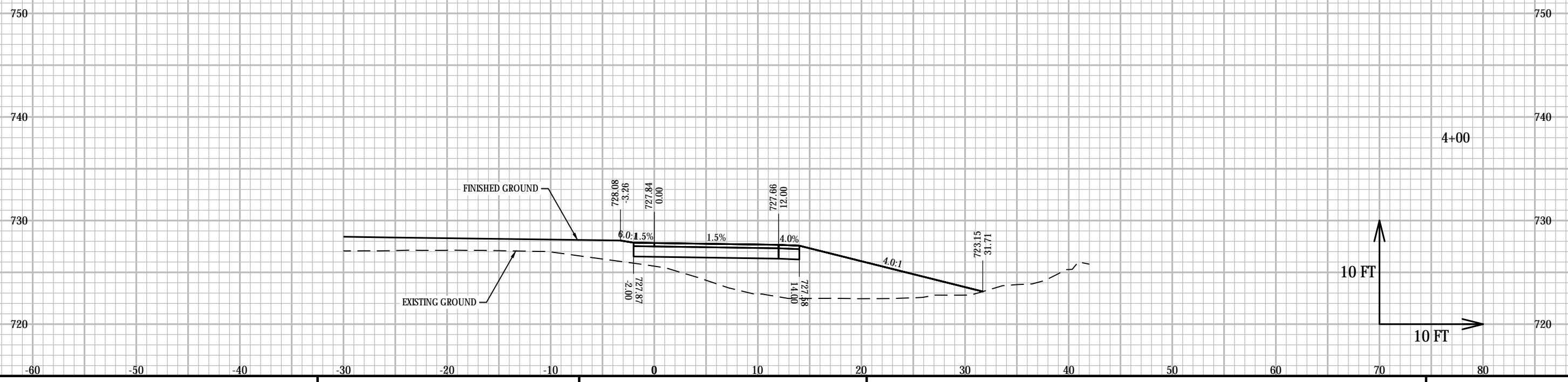
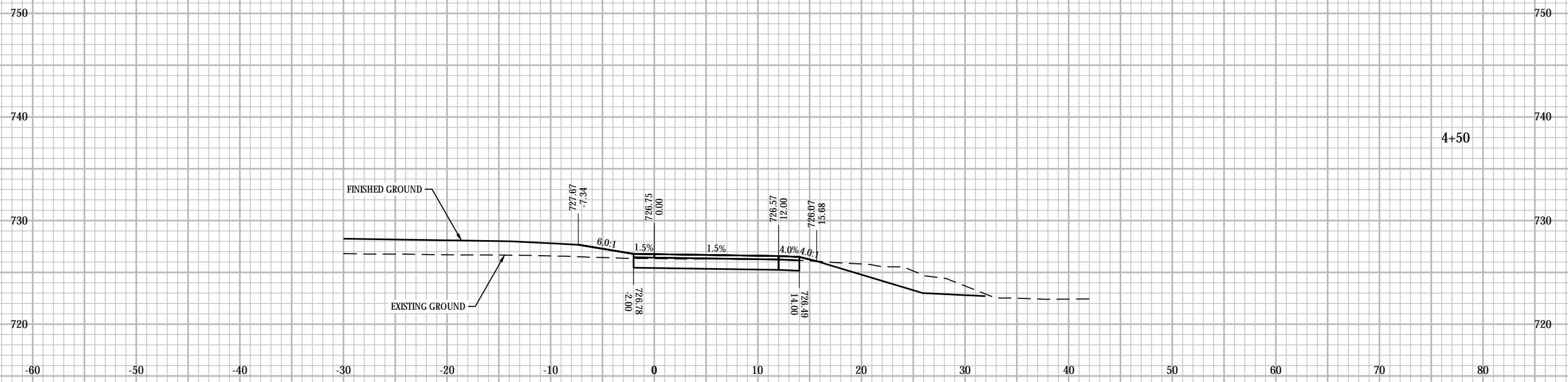
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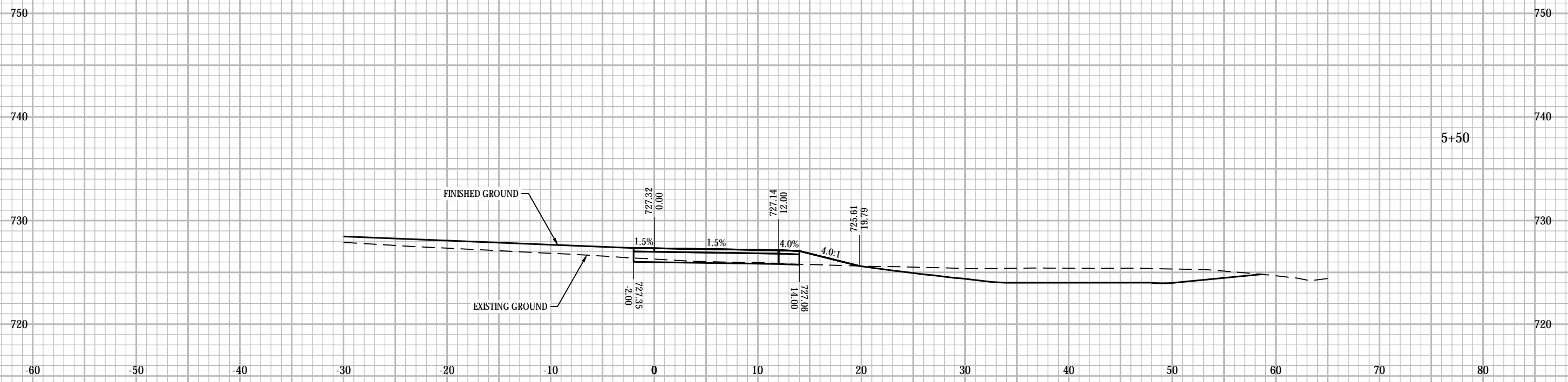
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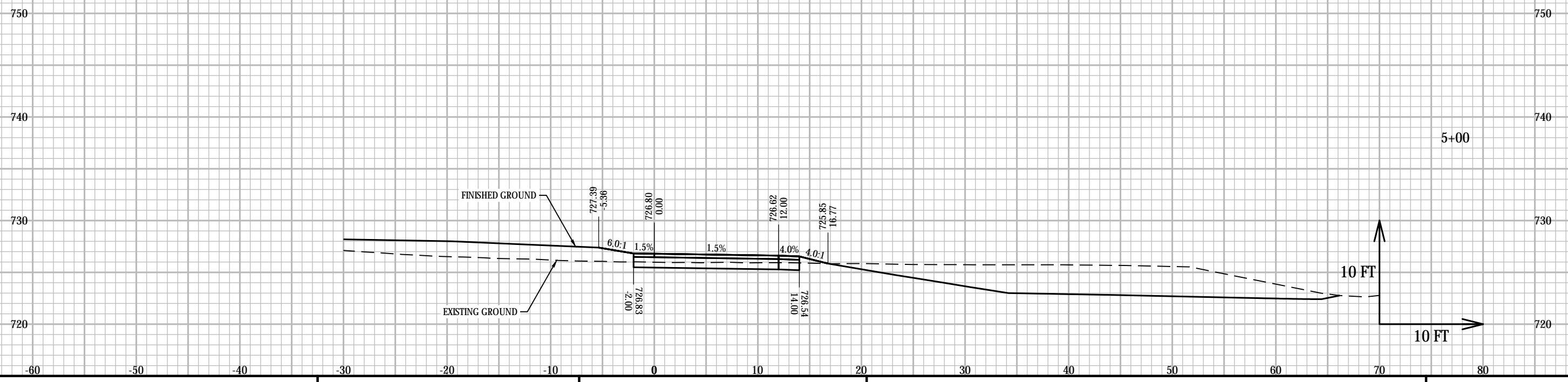
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PROJECT NO: 21877.008	ELLEN KORT PEACE PARK TRAIL	COUNTY: OUTAGAMIE	CROSS SECTIONS: ELLEN KORT PEACE PARK	SHEET XS4	E
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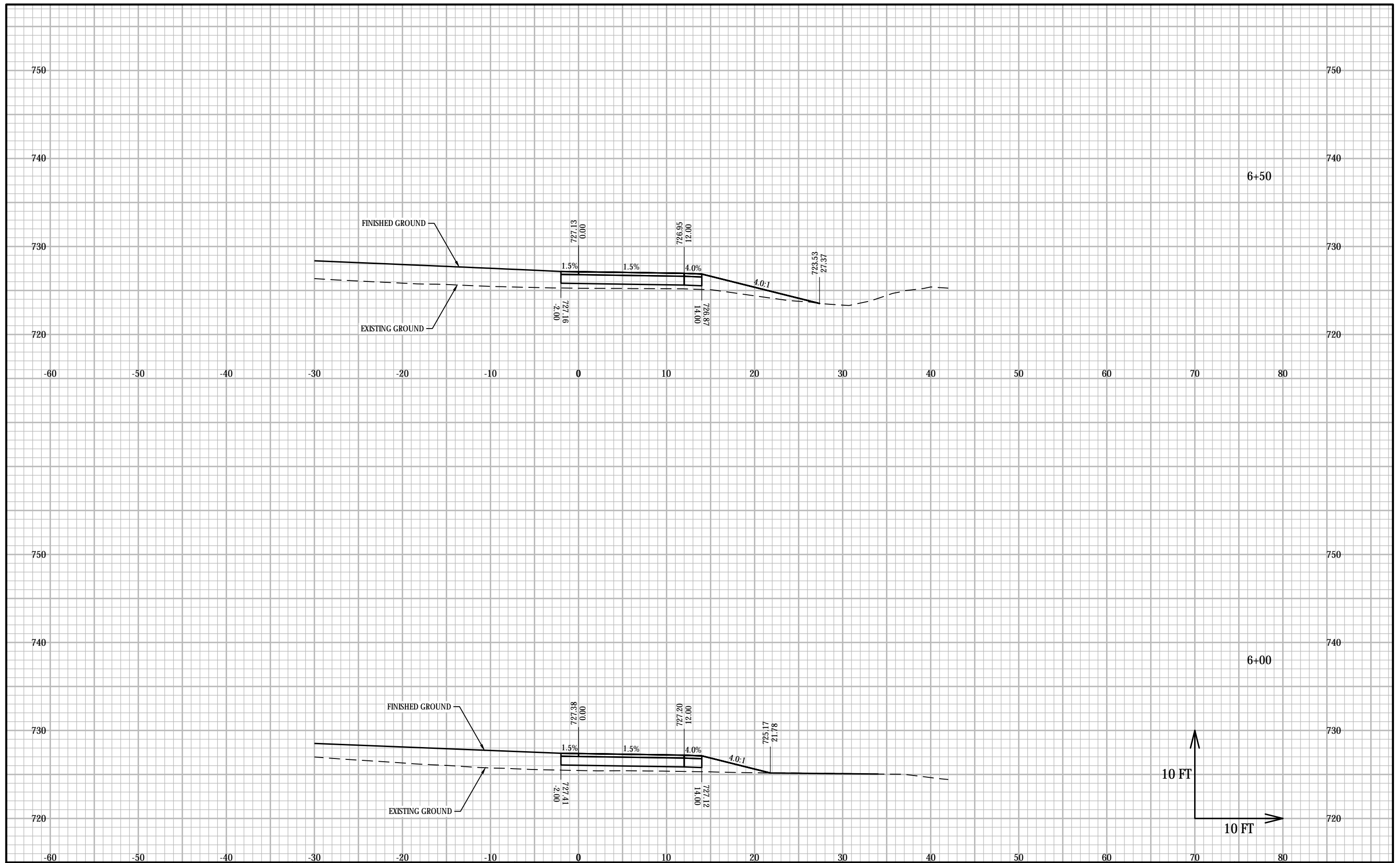


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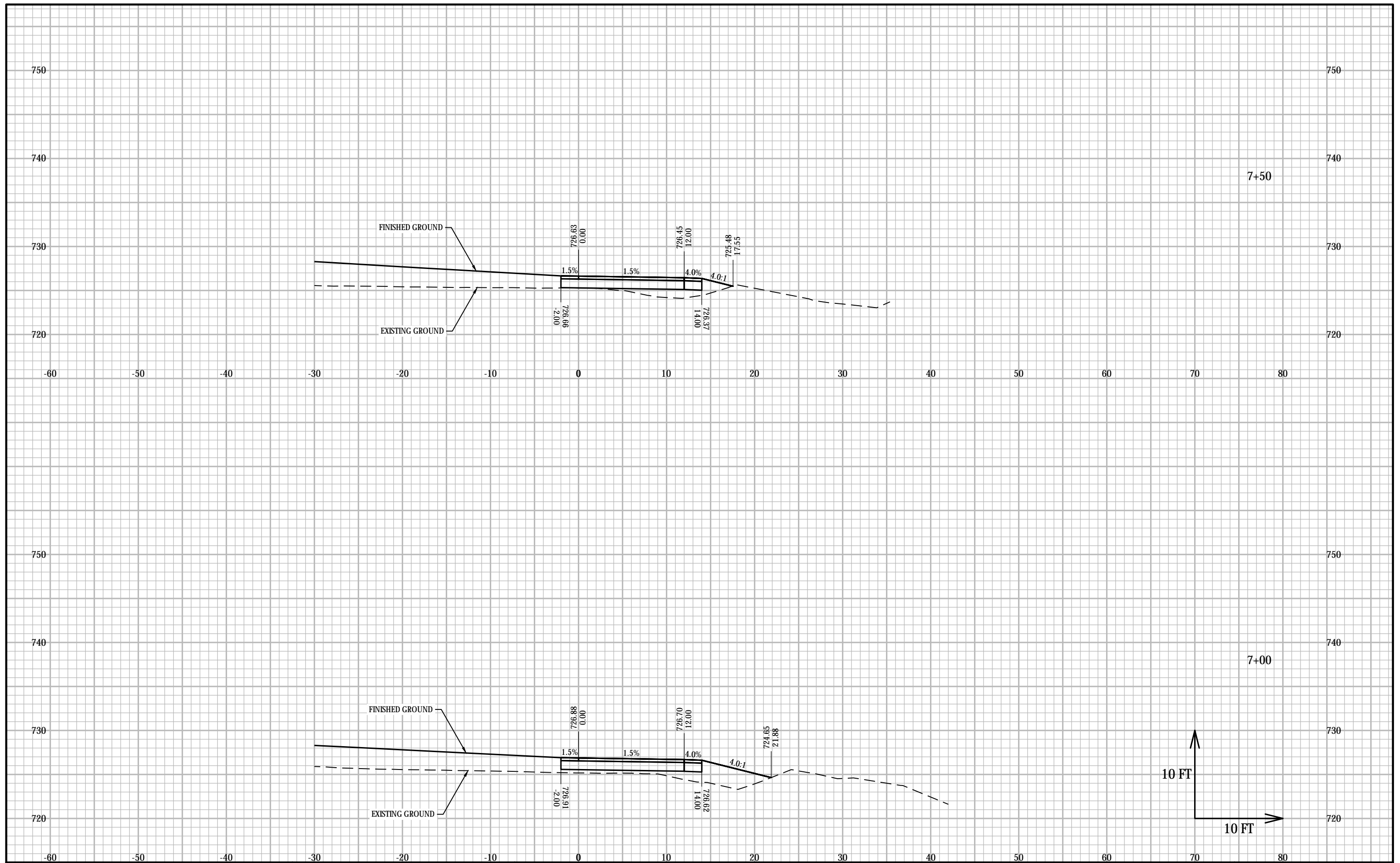


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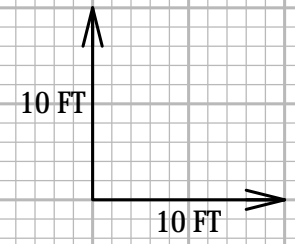
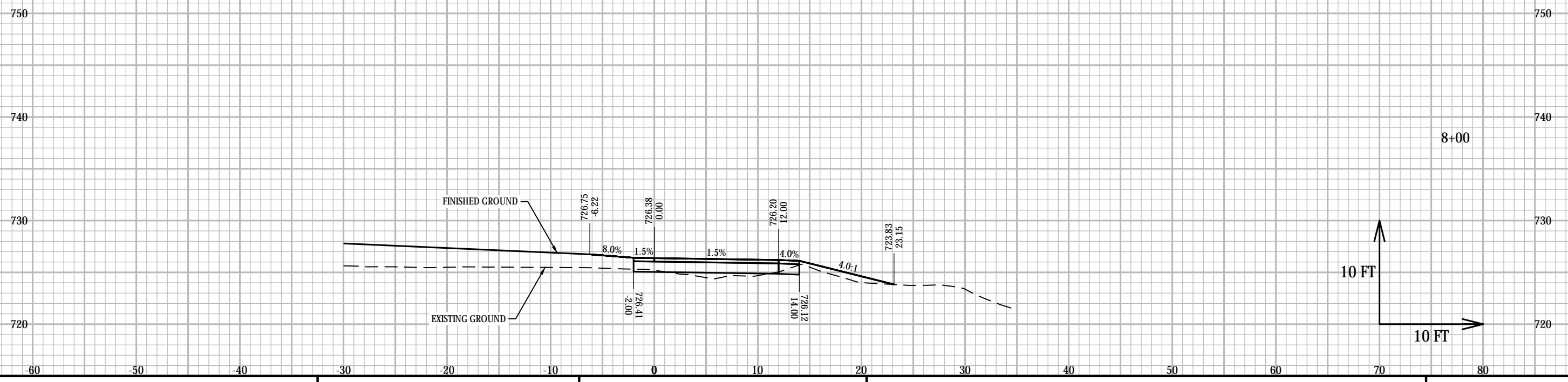
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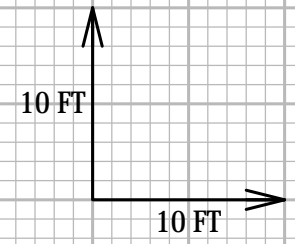
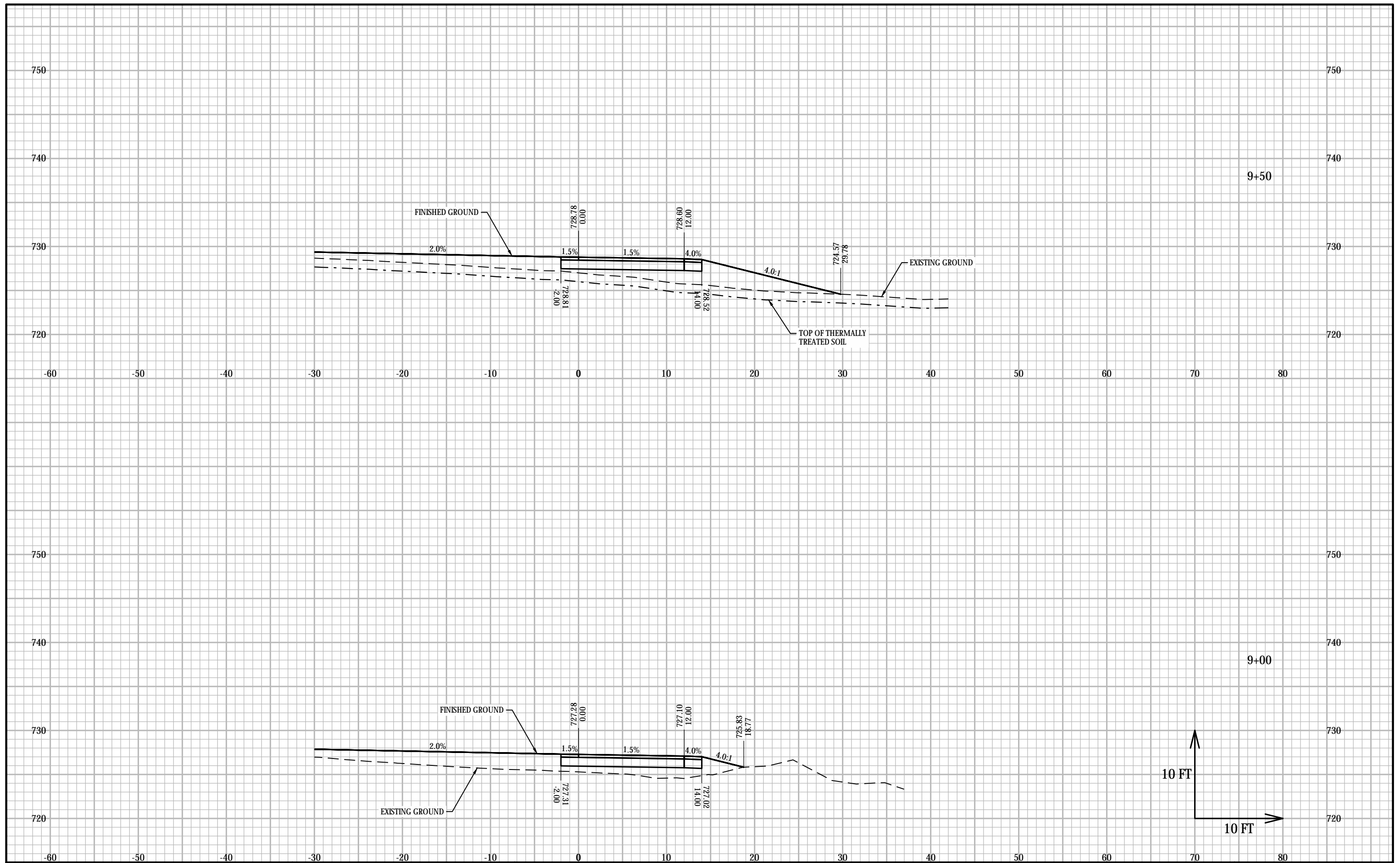
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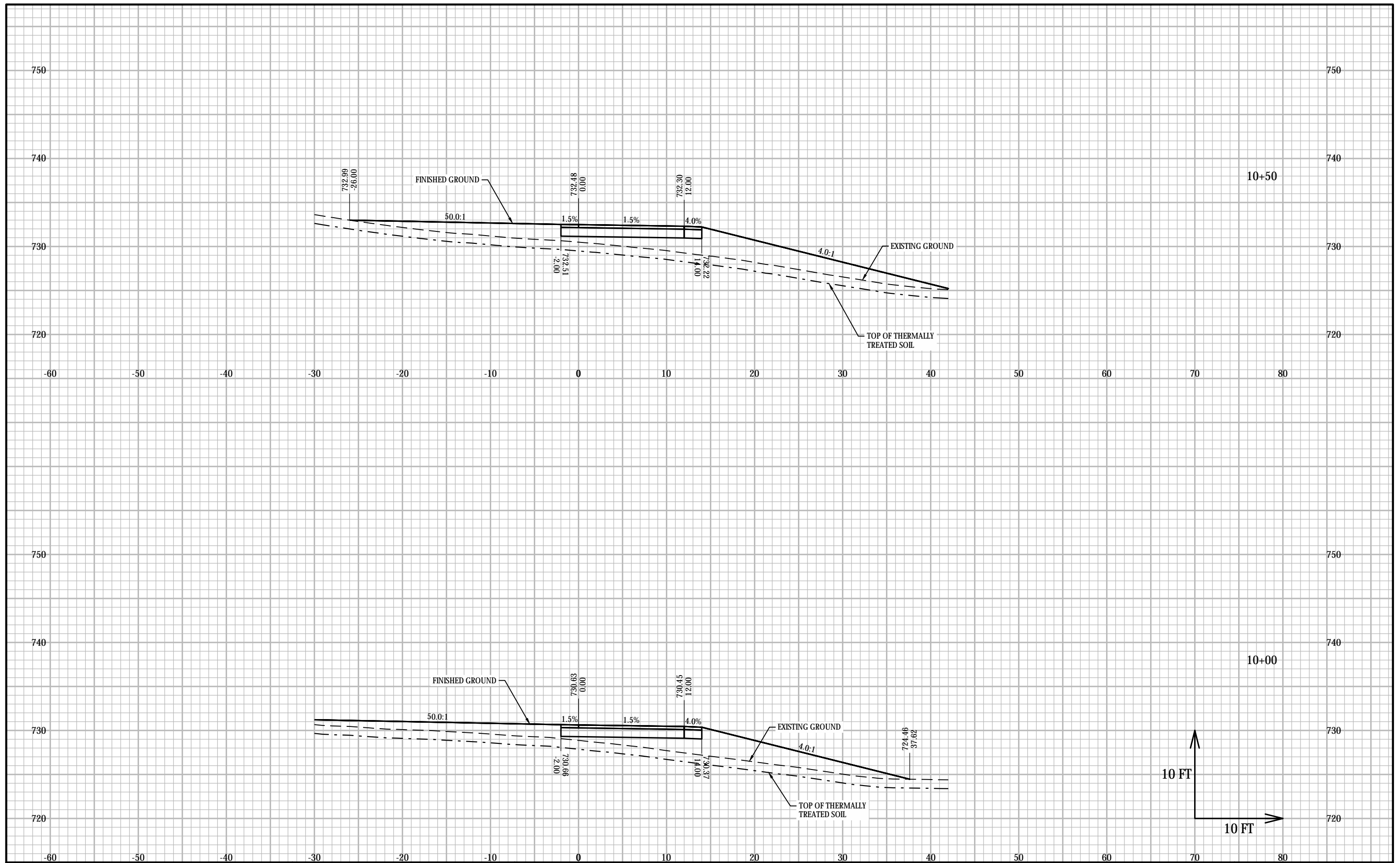
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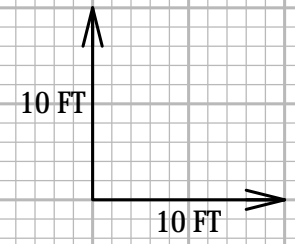
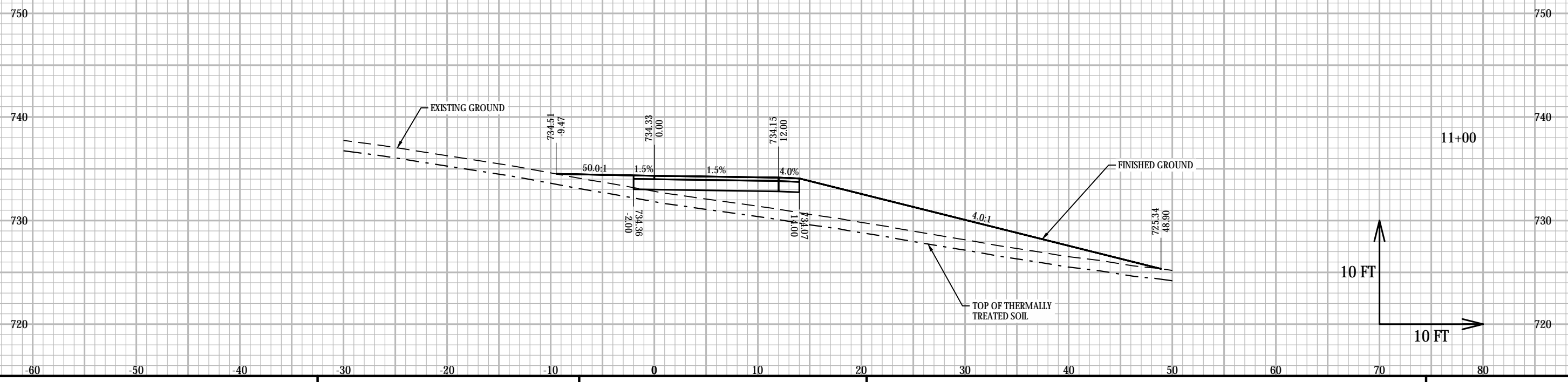
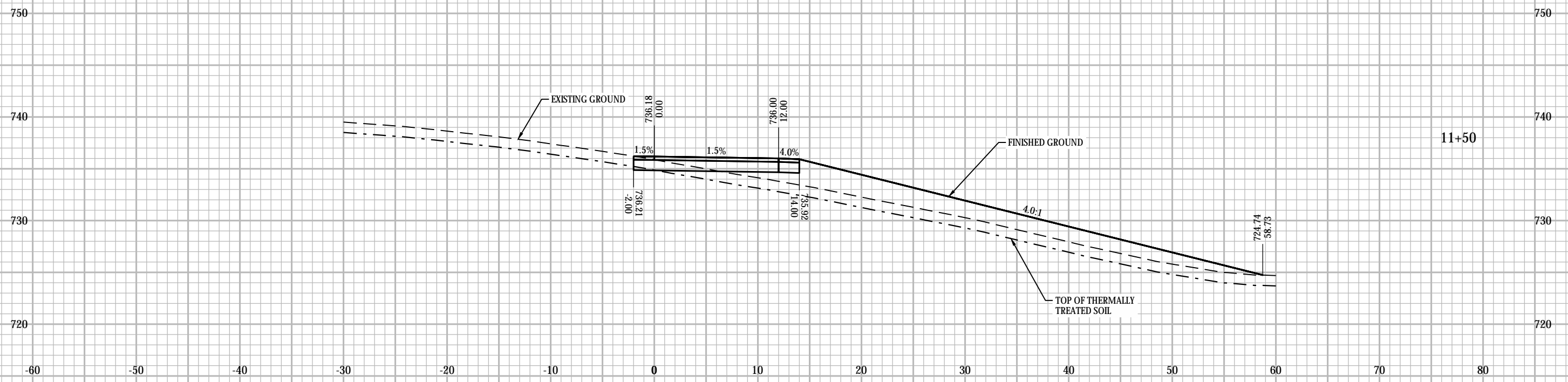
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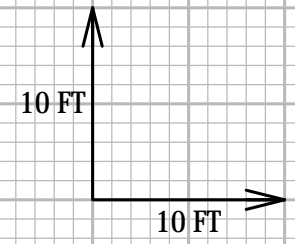
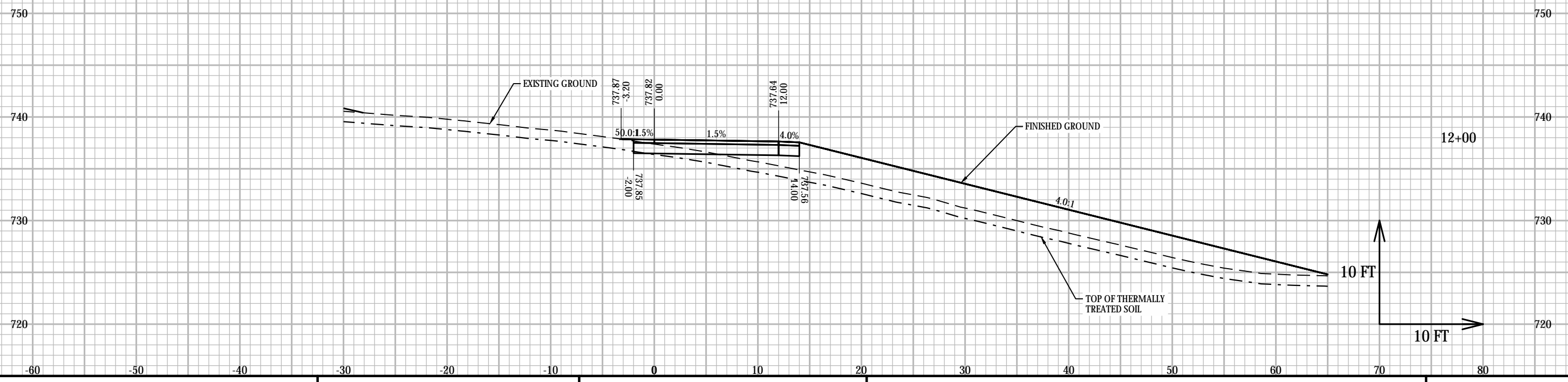
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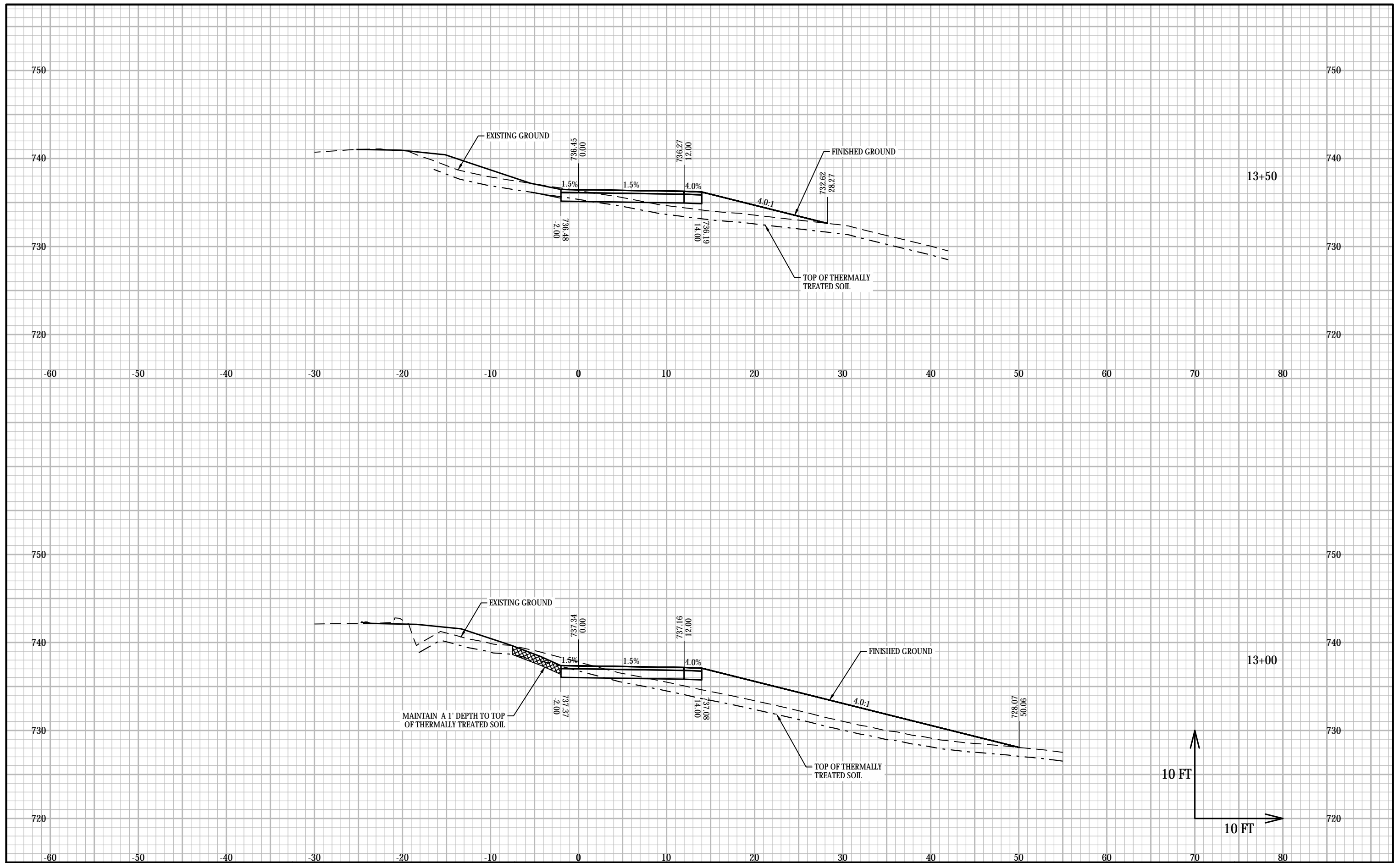
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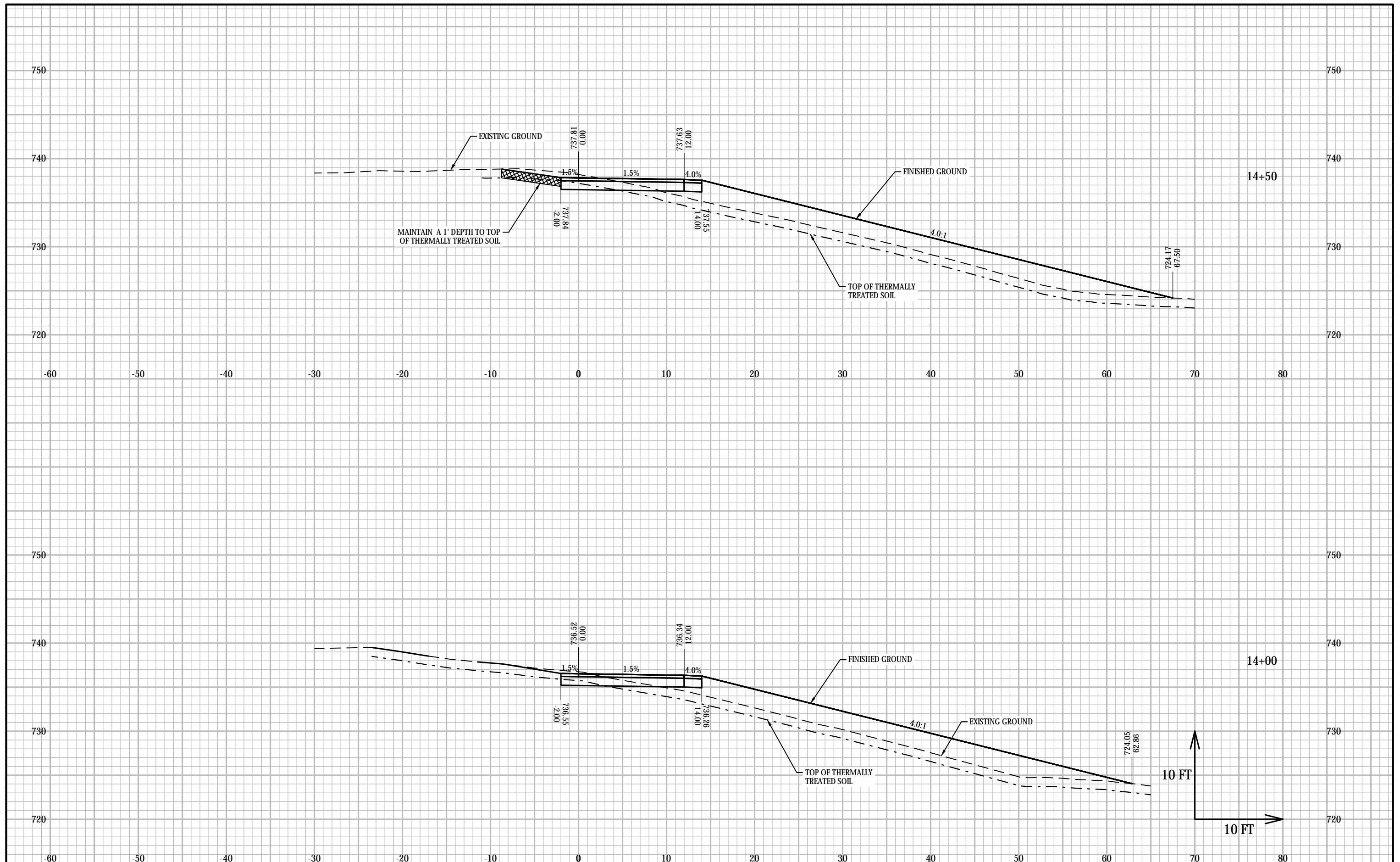
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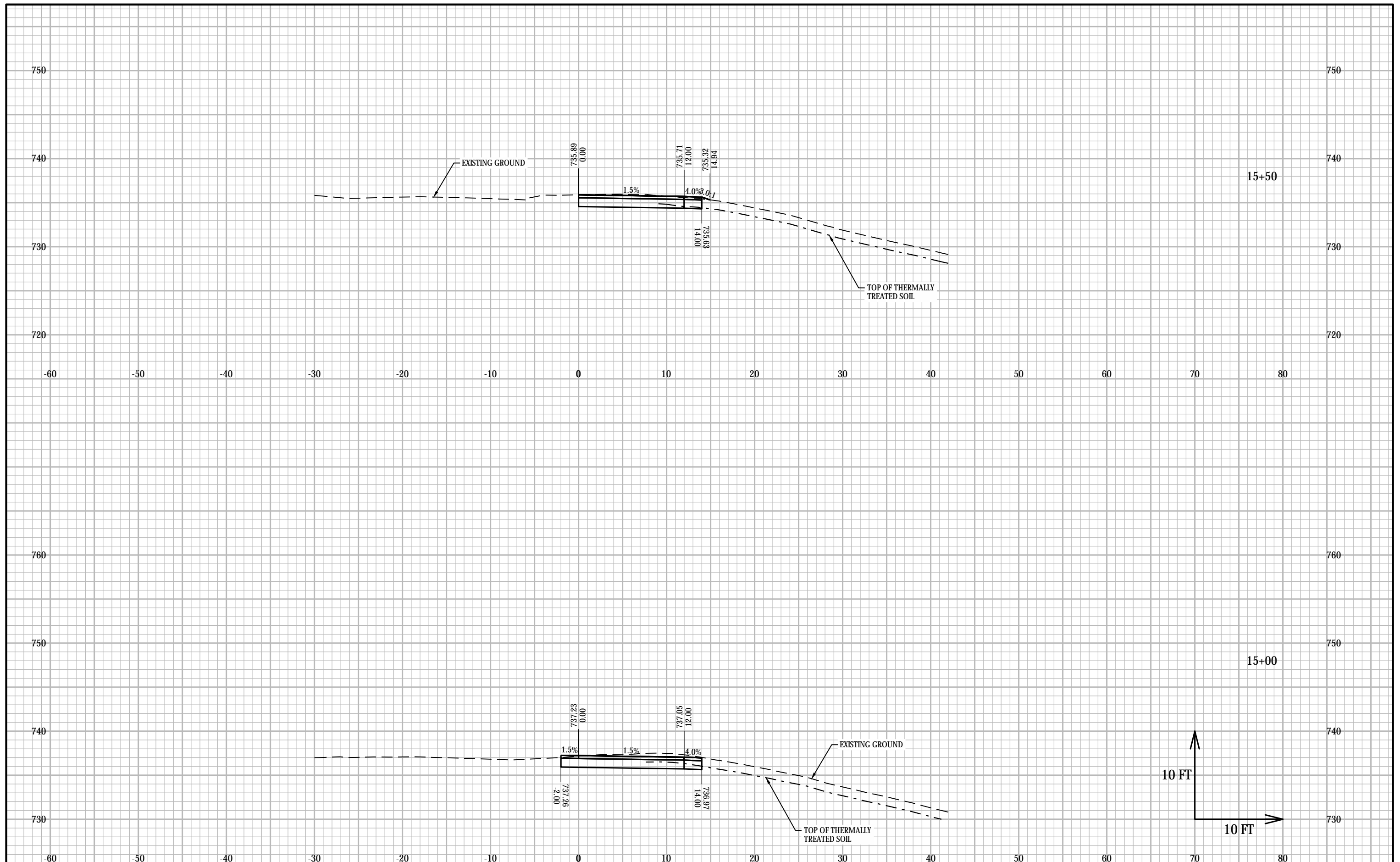
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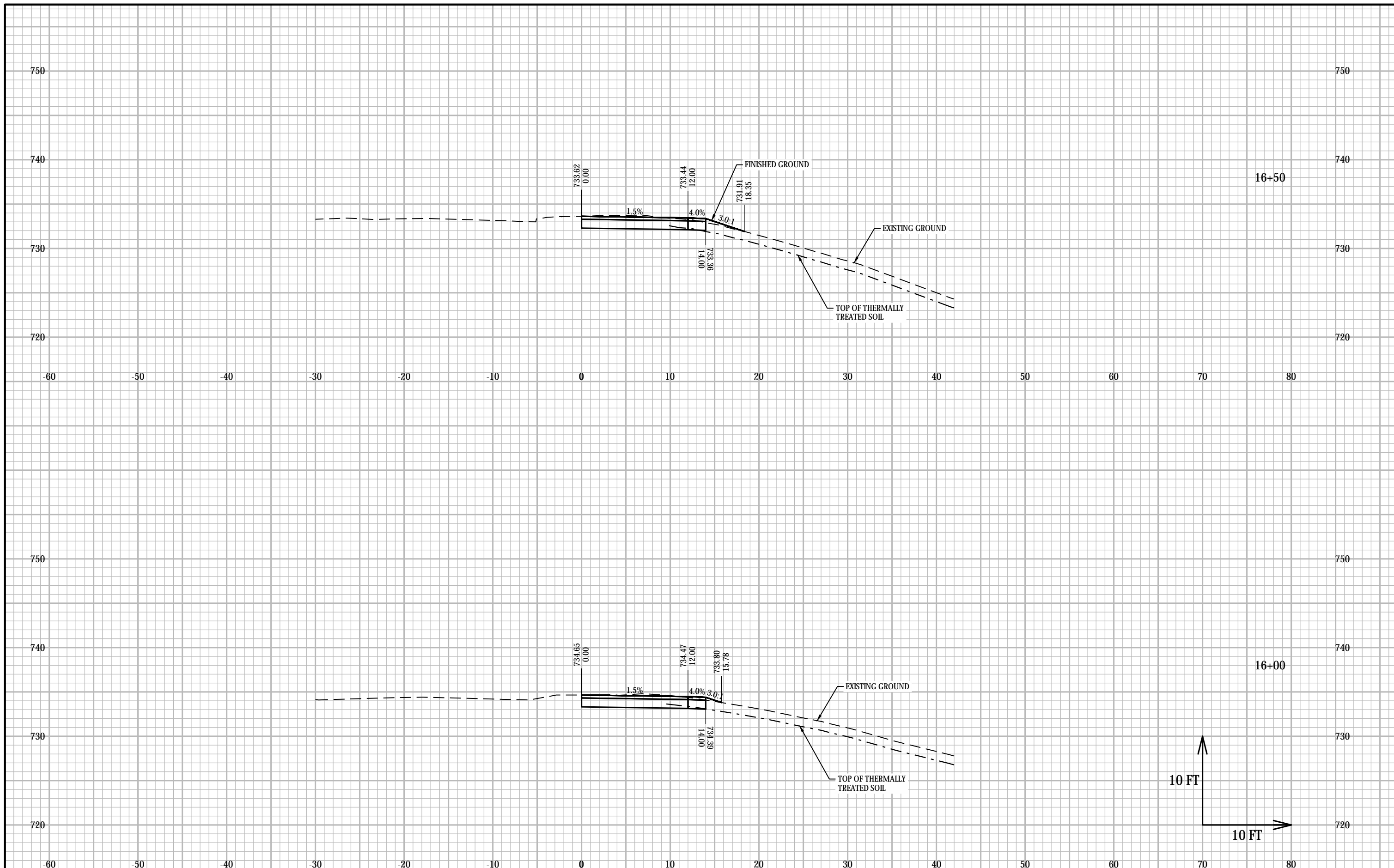
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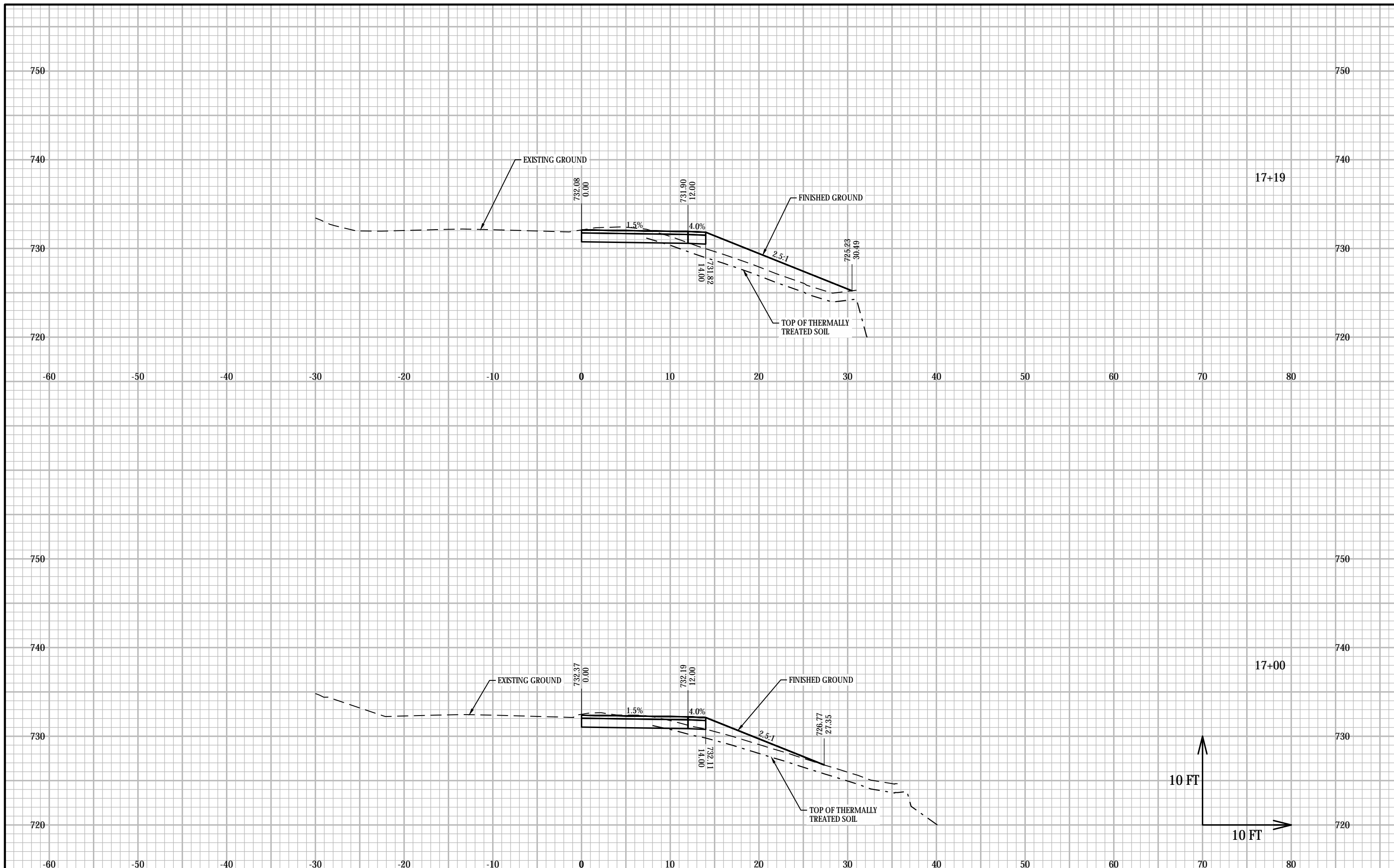
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PROJECT NO: 21877.008	ELLEN KORT PEACE PARK TRAIL	COUNTY: OUTAGAMIE	CROSS SECTIONS: ELLEN KORT PEACE PARK	SHEET XS15	E
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PROJECT NO: 21877.008	ELLEN KORT PEACE PARK TRAIL	COUNTY: OUTAGAMIE	CROSS SECTIONS: ELLEN KORT PEACE PARK	SHEET XS16	E
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PROJECT NO: 21877.008	ELLEN KORT PEACE PARK TRAIL	COUNTY: OUTAGAMIE	CROSS SECTIONS: ELLEN KORT PEACE PARK	SHEET XS17	E
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