City of Fitchburg
Erosion Control and Stormwater Management
Permit Application

Last Revised 3/19/2020

Permit #	
Start Date:	
Completion:	
Office Use Only	

Project Name: 2020 Thermo Fisher Fill Site

Latitude/Longitude: 43.019771, -89.460739
Coordinates to 6 decimal digits req'd (e.g. 43.002512, -89.424248)

Site Address: 5225 Verona Road

Parcel ID(s): 060905393452

Landowner Name, Phone & E-mail: James Gondek 608-819-1487 james.gondek@thermofisher.com

Landowner Address: 5225 Verona Rd Madison WI 53711

Applicant Name, Phone & E-mail: Thermo Fisher Scientific James Gondek 608-819-1487

Designer Name, Phone & E-mail: Ruekert-Mielke Jason Lietha 608-819-2600 jlietha@ruekert-mielke.com

Contractor Name, Phone & E-mail: Integrity Grading + Excavating Inc. Frank Wizner 713-359-4042

Total Disturbed Area (this project): 100,500 s.f.

Total Redeveloped Area (this project): s.f.

Total New Impervious Area added since 8-22-01: N/A s.f.

Total New Impervious Area (this project): N/A s.f.

Total Impervious Area (after project): N/A s.f.

Proposed Permit Fee for Plat Projects*

Type of Permit *(check only one)*

- ☐ Erosion Control Only (EC Base Fee = $200) (EC Amendment Fee = $100)
- ☐ Erosion Control and Stormwater Management (EC+SWM Base Fee = $200 + $400 = $600) (EC+SWM Amendment Fee = $300)
- ☐ Stormwater Management Only (SWM Base Fee = $400) (SWM Amendment Fee = $200)

Total Disturbed Area (this project):	s.f. x $0.005	/ s.f. =	$
Total New Impervious Area (this project):	s.f. x $0.010	/ s.f. =	$
Total Redeveloped Impervious Area (this project):	s.f. x $0.005	/ s.f. =	$

Permit fee of $ _____ received by _____ (name) on _____ (date)

Base Fee = (see above) $

Total Permit Fee = $

Make checks payable to "City of Fitchburg." Permit fee must be paid before Dane County review will begin.
Fees DOUBLE if work starts before permit is approved.
Note: Maximum length of permit duration is 3 years from permit start date.
** Plat projects include initial grading and infrastructure construction for plats. Development of individual lots within a plat are not considered "Plat projects" for the purposes of permit fee calculation.*

Proposed Permit Fee for non-Plat Projects

Type of Permit *(check only one)*

- ☒ Erosion Control Only (EC Base Fee = $275) (EC Amendment Fee = $100) **Plus actual costs****
- ☐ Erosion Control and Stormwater Management (EC+SWM Base Fee = $450) (EC+SWM Amendment Fee = $100) **Plus actual costs****
- ☐ Stormwater Management Only (SWM Base Fee = $375) (SWM Amendment Fee = $100) **Plus actual costs****

***In addition, the applicant shall pay the actual costs incurred by the City from any consultant or agent with whom the City may contract to provide services relating to the administration of this Code. The City shall bill the applicant for such charges, which shall be paid within thirty (30) days. Any unpaid charges shall be assessed to the subject property as a special charge pursuant to Wis. Stats. 66.0627 and placed on the tax roll.*

Make checks payable to "City of Fitchburg." Permit fee must be paid before Dane County review will begin.
Base fee DOUBLES if work starts before permit is approved.

Landowner or Applicant Signature: James Gondek Date: 3/25/2020

Reviewed by: _____ Date: _____

Conditionally Approved by City Engineer: _____ Date: _____

Submit 1 electronic copy of Permit Application, Report, and Plans (11"x17" max. size) to: dakota.dorn@fitchburgwi.gov, claudia.guy@fitchburgwi.gov, and Mergen.Elliott@countyofdane.com. Submit permit fee to: Fitchburg Public Works Department, Attn: Environmental Engineer, 5520 Lacy Road, Fitchburg, WI 53711.

2020 Thermo Fisher Fill Site

Stormwater Management and Erosion Control Narrative

Prepared by: Ruekert & Mielke, Inc.
Prepared: March 19, 2020

Introduction

This narrative, along with the submitted plans, will present the stormwater management and erosion control practices associated with the 2020 Thermo Fisher Scientific (TFS) fill site project and demonstrate their capability of meeting the stormwater management and erosion control requirements.

Narrative

The Wisconsin Department of Transportation's (WisDOT) Fish Hatchery and County Rd PD project improvements to the next phase of this project involve the excavation of approximately 100,000 cy of existing site soils and placement of this material onto an existing property on the Thermo Fisher Scientific (TFS) campus.

The TFS property that will be receiving the fill is currently undeveloped and contains mostly grass and tree cover. The contractor will bring material to the site and compacted in 12" lifts. Once fill operations are set to grades, the site will be seeded and slopes will be properly be re-established with erosion matting.

This project will result in three phases. The contractor will fill each phase according to the grading plan and restore each phase prior to moving on to the next phase.

The result of this project will be no increase in impervious area. **Therefore, no new stormwater BMP's are proposed for the project.**

No alteration of stormwater drainage or storm sewer is anticipated with this project. **Therefore, no stormwater modeling calculations will be submitted with this project.**

No slopes in either the existing or proposed conditions are greater than 20% grade for more than 50' in length.

Long term maintenance of the site will generally include mowing operations. Side slopes of the fill area shall be inspected by the owner at least every six months to ensure that no erosion has occurred.

Ruekert • Mielke
4001 Nakoosa Trail, Suite 200, Madison, WI 53714 608-819-2600

MEMO

TO: Alder Krause and City Staff, City of Fitchburg

FROM: Brian E. Toczyski

DATE: April 13, 2020

SUBJECT: 2020 Thermo Fisher Fill Site

The landowner and developer understand the concerns from the City staff, Alderpersons and the adjacent residents. This memo is intended to provide additional information to address the concerns of those groups. Along with this memo, we have provided responses to the City public works and planning teams. We have also continued to work on providing additional information as requested to Dane County in regard to the storm water and erosion control review.

Storm water study requirement – City staff contacted Ruekert & Mielke, Inc. on April 2, 2020 and indicated they were anticipating on meeting with the City of Madison staff to discuss storm water and impacts within this watershed from this potential project. City staff notified Ruekert & Mielke, Inc. on April 3, 2020 and indicated that after further discussion, a storm water management plan for this submittal was not required by the applicant.

Tree removal impacts runoff – At the direction of Dane County, we have revised the plans to provide prairie seeding for the final restoration. It is our understanding that the county has required this restoration to account for vegetation that has a higher water absorption rate to account for the removed vegetation.

Capital City Trails impacts – At this time there will be no impervious area added to the fill sites. The storm water drainage paths will remain the same as they are today. By introducing prairie seeding and flattening much of the slopes on the site, it is anticipated that the runoff time of concentration will be increased. This will allow water to be absorbed by the prairie planting and increase the time it takes for the water to leave the fill site. These improvements should result in a beneficial improvement.

Hours of operation – This question has been addressed in the staff responses.

Fill content - This question has been addressed in the staff responses.

Future development – At this time there are no development plans. The landowner is aware of the planned uses assigned to this area.

BET:cal

CITY OF FITCHBURG
PLANNING DEPARTMENT
5520 LACY ROAD
FITCHBURG, WI 53711
(608) 270-4200
FAX: (608) 270-4275
EMAIL: planning@fitchburgwi.gov

Application: ECSWM Permit
Property Location: Outlot 4 CSM 15033
Review Date: April 7, 2020
Planning Staff Review #1

Planning staff has reviewed your submitted Final Plat request for property associated with Outlot 4 CSM 15033. The following comments are based on this review. Please respond to each item with a detailed written response, along with appropriate updated plans; by 5:00 p.m. on Tuesday, April 14th or sooner. Further comments or questions may arise as additional review occurs.

1. What is the timeline for beginning and completing proposed activities?

   Response: Total project filling activities are for approximately 100,000 CY total for the entire site. The site is proposed to be filled in three phases.

   Phase 1 - Material coming from existing County Rd PD project will be placed from mid-April to end of August of 2020. Approximately 40,000 CY.

   Phase 2 – Material coming from the new construction County Rd PD project will be placed from August to November of 2020. Approximately 35,000 CY.

   Phase 3 - Material from the Fish Hatchery project will be placed next year in 2021 when that project starts. Approximately 25,000 CY.

   The site will be stabilized as the contractor places material per the plans and dates.

2. Describe the hours of operation that trucking, compaction, and filling the site will take place. Will there be any lighting during fill / compaction operations? We do not anticipate allowing any overnight trucking or crushing.

   Response: There will be no overnight trucking or crushing on site. Hours of trucking and placing fill on the site will be approximately 7:00 AM to 6:00 PM as allowed by the project construction. The access road to the site will be maintained to prevent rutting or erosion to occur. If the contractor cannot access the site due to conditions, hauling will not occur to that location. Based on anticipated hours of operation, lighting will not be used.

3. How many trucks are anticipated to enter the site per hour / per day?

   The contractor anticipates approximately 50-100 trucks per day. This also depends on the availability of trucks from other companies. There will be times during the project when fill will be needed so the project will balance out, and will not constantly be hauling fill to the fill site location.

4. Please further describe the existing topography of the site. Describe whether the final grade and topography will be appropriate for future development. The future land use map identifies the north end of the site as Industrial-Commercial and the south end of the site as Park-Conservancy.

   Response: At this time, future development is not planned, only filling operations of the site as proposed. The fill operations will be focused on compacted fill in 12-inch layers so to be suitable for future development if or when it may occur. The final site will be potentially available for future development as noted on the future land use map. The area of this parcel to the south is not anticipated to be disturbed or impacted by the proposed filling operations except for the access road. Existing topography shows the site sheet flowing to the northeast/east side of the parcel. This entire parcel is pervious and will remain 100% pervious. Once water leaves the site, it flows through Dawley Park to the adjacent pond where it discharges. That same flow route will not be changed off site. Proposed contours still show most of the site sheet flowing to the east. The storm water that hits the western slopes will be conveyed around via a ditch to still drain on the east side of the parcel. Water will not drain across the adjacent bike path.

5. The method and manner of fill placed shall be appropriate for future planned use. Describe the compaction that will occur as fill is placed (size of compacted material…)

   Response: The existing vegetation will be cleared on the site and topsoil stripped and stockpiled for reuse after the fill operations. The contractor will have a fill agreement with the landowner. Fill being placed will be required to be dirt, sand or rock and not contain any construction waste including concrete or hydric soils. Compaction is required to meet WISDOT section 207 for embankment fill and is to be tested at contactor's expense and slopes can't exceed 3:1. The agreement also requires no ponding, no impact to existing drainage patterns and all required permits from WDNR, WISDOT and local agencies. The agreement also requires the contractor to correct any damage to properties they access to and across, provide dust control measures as required, clearing and provide any traffic control as needed.

6. Consider neighborhood outreach prior to the Plan Commission meeting. Holding an in-person neighborhood meeting is not advised / difficult given the current pandemic situation, however other methods of outreach may be possible.

   Response: Other means such as a formal letter or flyer can be mailed to the residents and information posted on the City website for additional information for hours of operation and what the residents can expect.

7. The ordinance standards note that the plan should not cause substantial change to the existing grades such that there will be a negative effect on the direction, velocity and amount of stormwater flow from the site onto public waterways, drainage channels or to adjoining or nearby lands. Residents have expressed concerns regarding impact on the adjacent bike path (aesthetics and flooding concerns) as well as on nearby conservancy and natural areas. Please comment.

Response: The north end of the site zoned Industrial-Commercial is the area receiving the fill. The Park-Conservancy will remain undisturbed. Storm water from the east side of the bike path will be conveyed along the ditch and around the fill area to the existing drainage channel. Existing flow will not be increased as the pervious area is not changing. Slopes will increase and native seed and erosion matting as specified by Dane County have been implemented in the plans.

8. What will landscaping and restoration look like adjacent to the bike path after final grading?

   Response: The site plan shows that the new site will not have any grading within 40 feet of the current bike trail. After 40 feet, an embankment of 8-10 feet in height will exist and be seeded with prairie grasses. The embankment will be 3:1 or flatter in slope. The site will not be observable from the Capital City Trail because the fill will be more than 200 feet from the existing trail separated by wooded land.

9. Resident question: Does the access point already exist from McKee Road?

   Response: Yes, currently there is a curb cut with an existing gravel driveway. This is where the trucks will enter and leave the site once the tracking pad is established. The entire curb along the north side of the road will end up being replaced during the reconstruction of McKee Road this year.

10. Resident question: Were other site alternatives considered?

    Response: This site is the closest available to both projects that can accept this fill. This limits the amount of trucking needed, which in turn eliminates excess use of fossil fuels and emissions. There are various other sites that are much farther from this project, that would be capable of accepting some of this excess soil, but none that can receive all the excess soil from these projects. Discussion between the contractor and the property owner about this site have been ongoing since early 2019. Without this site being a factor, the cost of these projects would have been substantially higher.

11. Resident question: Was there any study of tree quality, particularly around the perimeter of the proposed filling / grading?

    Response: No, since the closest housing development is approximately 600 feet from the fill area and the Capital City Trail is 200 feet from the fill area. It was not anticipated that tree clearing would have a direct impact on the public or adjacent properties.

Thermo Electron Scientific ECSWM Permit
OL 4 of CSM 15033
Public Works Review #1

The following comments are based on the ECSWM Permit application submitted by Brian Toczyski, Agent for Thermo Electron Scientific Instruments LLC dated 3/24/20 for OL 4 of CSM 15033. TF 4-3-20; BB 03-31-20; TB 4-1-20; CG 4-2-20; MB 4-6-20. Additional comments beyond these may be required on future reviews.

General Comments

1. None

Transportation Comments

1. During the McKee Road reconstruction, left turns across traffic will be prohibited. The site driveway will continue to operate as a right in-right out access. (BB)

   Response: Acknowledged. This will create a scenario where trucks will have to make U-turns to enter and leave the site. I think allowing us to remove the median curb and have a staging area to allow left turns in and out, as traffic allows with traffic control, will create safe conditions for the truck drivers and also the public.

Water Main and Sanitary Sewer Comments

1. None.

Erosion Control and Storm Water Management (ECSWM) Comments

1. A new Erosion Control Permit application will need to be submitted to the Fitchburg Public Works Department for review and approval. The ECSWM application and information on requirements can be found at: http://www.fitchburgwi.gov/231/ECSWM-Requirements.

   Response: A new permit application was submitted and is attached here for your review.

2. Proposed grades cannot block offsite water that drained through the lot in pre-development conditions. Localized ponding should not be created, and drainage of offsite properties should not be impacted by proposed development. The proposed grading will significantly change from the existing. Current sheet flow to the northeast will now become a channel flow to the southeast. Ensure the new flow path will not impact off site downstream properties. (BB)

   Response: The existing drainage is sheet flow to the east for the majority of the site with concentrated channel flows on the north and south ends of the proposed fill area. The proposed contours are tied in to existing contours approximately 10 feet off the property lines. Water conveyed off the west side (approximately 10%) slope will reach a designed ditch to run north or south

and conveyed around the fill area back to its original discharge location on the parcel. The sheet flow from the top and the east side will drain accordingly as that directional flow is unchanged from existing. In addition, the slope will be flatter for most of the drainage path and will increase runoff time of concentration. Berms and sediment traps have been added to the plan per the review done by the WDNR. The site will remain 100% pervious and downstream properties are not anticipated to be impacted.

3. Adjust USLE start date to reflect approval dates. (BB)

   Response: Dates adjusted.

4. Submit USLE exhibit showing the critical flow path. (TB)

   Response: The critical path for the USLE is noted by an arrow on sheet EC-01. This was also requested from Dane County.

5. Label proposed slopes. (TB)

   Response: Proposed slopes labeled on sheet GR-01.

6. Permanent stabilization with deep rooted, native vegetation is required to reduce off-site runoff. (CG)

   Response: Agrecols Shortgrass Prairie seed for medium soils as specified by Dane County as a native vegetation for the entire site has been added to the plans.

7. Minimize disturbed area to the maximum extent practicable. (MB)

   Response: Acknowledged. Project was designed in a manner to minimize erosion and restoration by incorporating phases and increasing the depth of fill to lessen the footprint required for vegetation removal.

8. Haul route to site shall be maintained to prevent excessive rutting and potential erosion and tracking. Access route shall be restored at completion of project. (MB)

   Response: There is an existing access road and it will be improved to support truck traffic. The access road will be maintained so that trucks will be able to reach the fill site under ideal conditions. If weather plays a roll in changing the accessibility, the contractor will make necessary improvements to the road to prevent erosion, rutting and tracking. Equipment for maintaining the road will be a grader or dozer and roller. Restoration will be completed at the end of the project.

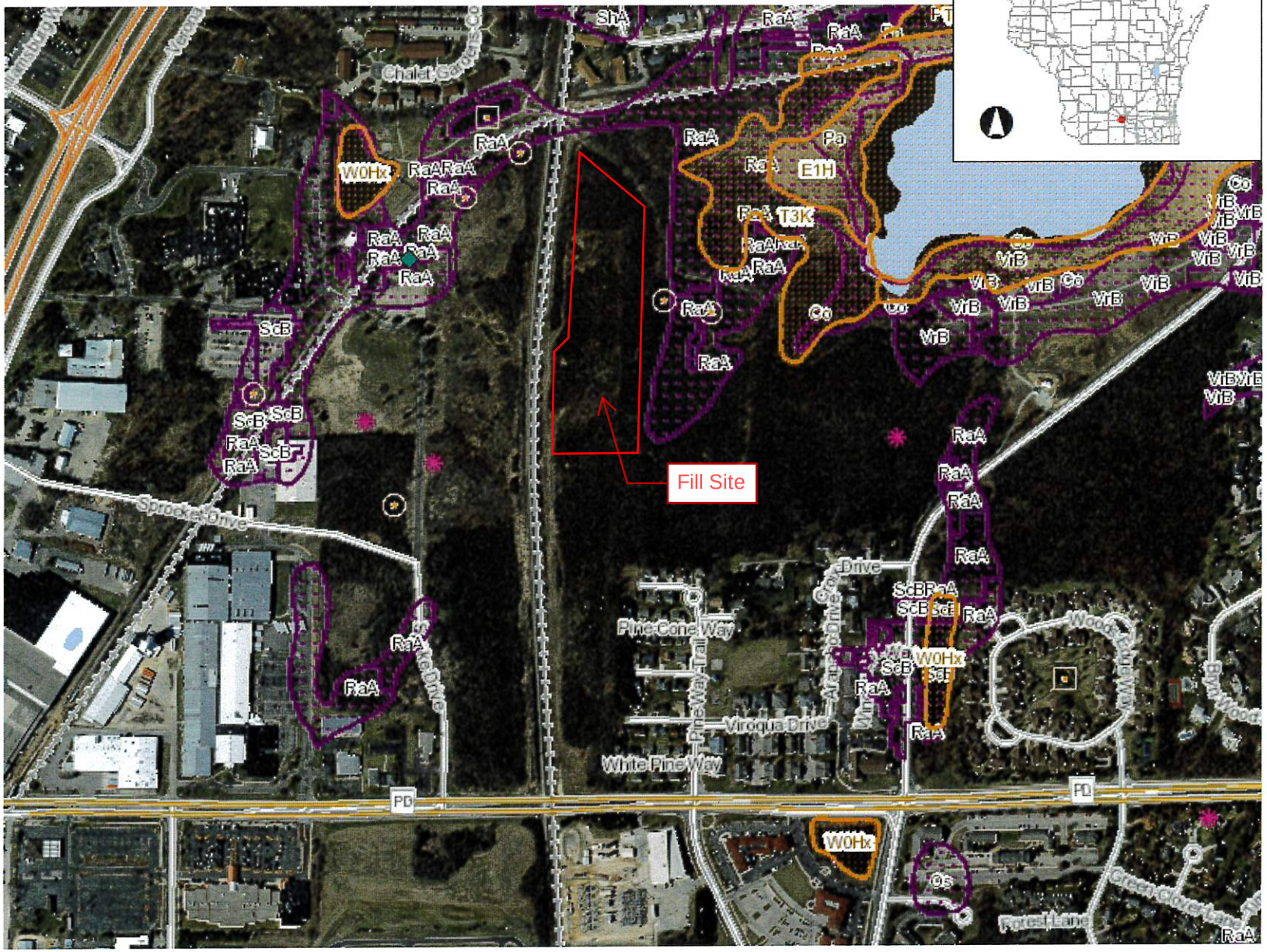
Thermo Electron Scientific ECSWM Permit
OL 4 of CSM 15033
Public Works Review #1

9. Update plans with any required or recommended changes that come during Erosion Control Permit Review/Approval. (MB)

   Response: Acknowledged. Some revisions have already been made in the review process for Dane County as required for the Phase 1 review. Further revisions will be made as required by the review.


Site Location
Kroncke Dr
Meadowood Dr
Big Bow Rd
Williamsburg Way
Verona Rd NB
Verona Rd SB
Frontage Road
Anton Dr
Teal Dr
Tawhee Dr
Harley Dr
Chalet Gardens Rd
Chalet Gardens Ct
Toppers Ln
Carling Dr
Lovell Ln
Allied Dr
Gene Parks Pl
Sentinel Pass
Renaissance Dr
Equity Ln
Aztec Trl
Apache Dr
Pawnee Pass
Crescent Rd
Clover Ct
Dawley Dr
S Seminole Hwy
Tree Line Dr
Oak Leaf Cir
Auburn Dr
Verde View
Sprocket Dr
Spoke Dr
Pine Cone Way
Pineway Trl
Arapaho Dr
Croix Dr
Bryn Wood Dr
Osmundsen Rd
Bosshard Dr
McKee Rd
McKee Road
CTH PD
Commerce Park Dr
Cottonwood Dr
Buds Dr
Marketplace Dr
Executive Dr
Forest Ln
Green Clover Ln
Timber Ridge Trl
Jonathan Cir
Woods Edge Rd
Dunn's Marsh
Capital City State Trail

Surface Water Data Viewer Map



Legend

- Wetland Identifications and Confirmations
- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- NRCS Wetspots
- Maximum Extent Wetland Indicators
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads

Notes

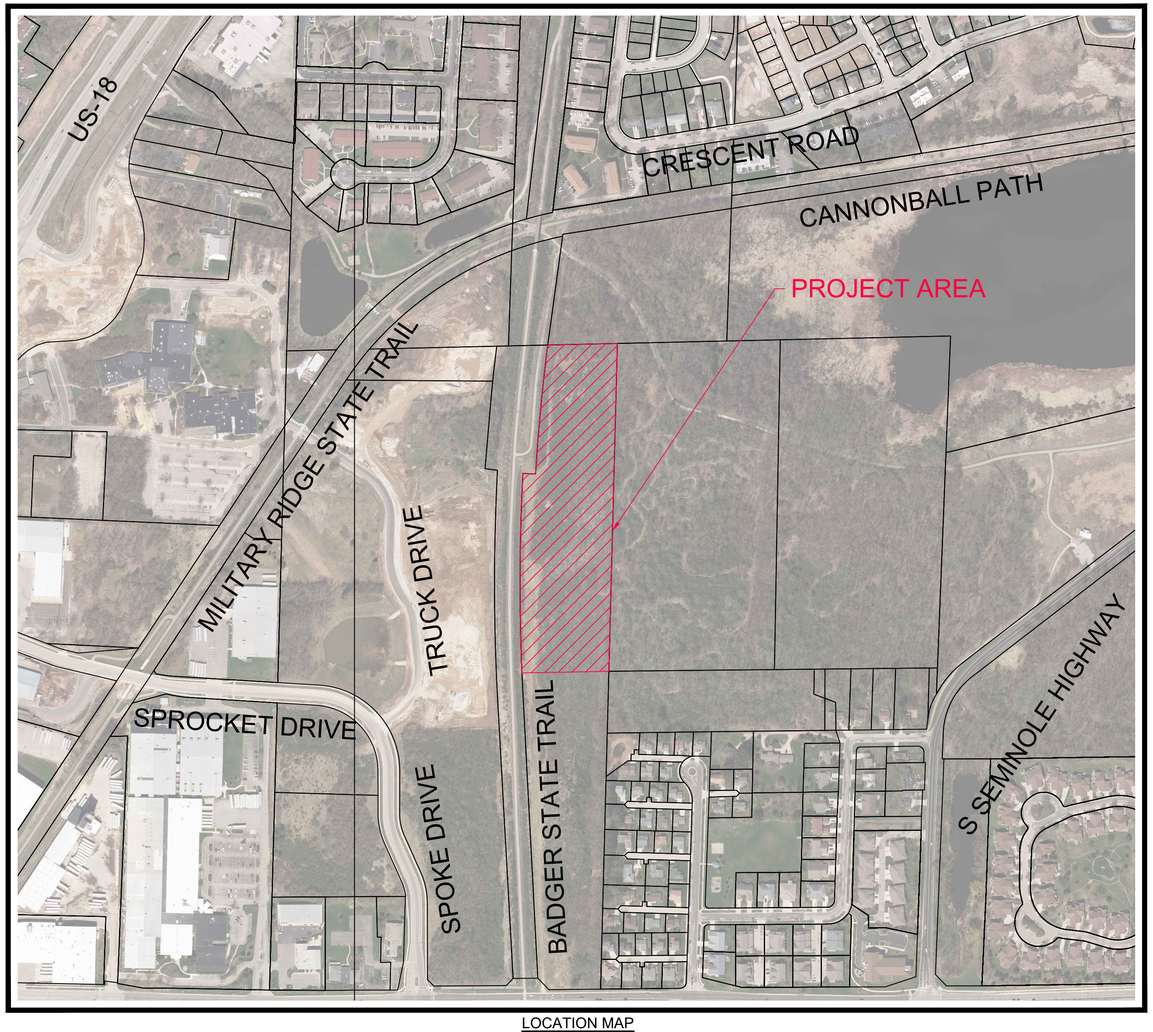
0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 7,920

2020 THERMO FISHER FILL SITE

CITY OF FITCHBURG
DANE COUNTY, WISCONSIN



LOCATION MAP

TOWN	RANGE	SECTION (s)
6N	9E	5SW

N W E S

0 150 300 600

SCALE IN FEET

ORIGINAL PLAN SET
IS IN COLOR

SHEET INDEX

LEGEND - CIVIL ENGINEERING DRAWINGS

- GENERIC MANHOLE
- VENT GENERIC VENT
- SEWER MANHOLE
- CO CLEAN OUT
- SEPTIC SEPTIC SYSTEM
- SEPC SEPTIC TANK COVER
- SEPV SEPTIC VENT
- MWEL MONITORING WELL
- WATER VALVE
- HYDRANT
- YARD HYDRANT
- WATER VALVE MANHOLE
- WATER CURB STOP
- WELL WELL
- SPRINKLER HEAD
- STORM CATCH BASIN
- STORM INLET
- GAS MANHOLE
- GAS VALVE
- GAS METER
- GAS VENT GAS VENT
- GVT GAS VALVE TEST
- GAS CURB STOP
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- TELEPHONE BOX
- TELEPHONE MANHOLE
- CABLE BOX
- UTILITY POLE
- GUY GUY WIRE
- LIGHT POLE
- YARD LIGHT
- TRAFFIC SIGNAL
- PULL BOX
- ?" SAN SWR SANITARY SEWER
- ?" WM WATER MAIN
- ?" STO SWR STORM SEWER
- G UNDERGROUND GAS MAIN
- E UNDERGROUND ELECTRIC
- T UNDERGROUND TELEPHONE
- FO UNDERGROUND FIBER OPTIC
- C UNDERGROUND TV CABLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL SHOULDER
- EDGE OF CONCRETE
- DITCH
- TOE OF SLOPE
- TOP OF BANK
- X X X FENCE
- GUARD RAIL
- ? CULVERT (SIZE & TYPE NOTED)
- RAILROAD TRACKS
- EDGE OF TREES & BRUSH
- FP FLAG POLE
- MB MAIL BOX
- P POST
- DP DELINEATOR POST
- MP MARKER POST
- SIGN
- PILE PILING
- A/C AIR CONDITIONER
- RAILROAD SIGNAL FLASHER
- RRSB RAILROAD SIGNAL BOX
- RX RAILROAD SPIKE
- STUMP
- DECIDUOUS TREE
- DECIDUOUS MULTIPLE TRUNK TREE
- CONIFEROUS MULTIPLE TRUNK TREE
- CONIFEROUS TREE
- CP CONTROL POINT
- IP IRON PIPE
- IR IRON ROD
- SECTION CORNER
- MONUMENT
- TEST BORING
- PK PK NAIL
- DECORATIVE ROCK
- 1 REVISION LABEL
- WETLANDS
- WZ 000.00 WATER ELEVATION
- PROPOSED SILT FENCE
- PROPOSED SANITARY SEWER (PLAN VIEW)
- PROPOSED STORM SEWER (PLAN VIEW)
- PROPOSED WATER MAIN
- PROPOSED SLOPE INTERCEPT
- PROPOSED DETECTABLE WARNING FIELD
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY RISER
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED YARD HYDRANT
- PROPOSED WATER VALVE MANHOLE
- PROPOSED WATER MAIN REDUCER
- PROPOSED WATER MAIN OFFSET
- PROPOSED WATER MAIN PLUG
- PROPOSED WATER MAIN PLUG W/AIR RELEASE
- PROPOSED WATER MAIN CROSS
- PROPOSED WATER MAIN TEE
- PROPOSED WATER MAIN BEND (ANGLE NOTED)
- PROPOSED LOCATOR BOX
- PROPOSED STORM INLET/CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED DITCH CHECK
- A PROPOSED INLET PROTECTION TYPE A
- B PROPOSED INLET PROTECTION TYPE B
- C PROPOSED INLET PROTECTION TYPE C
- D PROPOSED INLET PROTECTION TYPE D

CHECKED BY: _____

Ruekert • Mielke

Waukesha • Kenosha • Madison

Global Water Center • Fox Valley

www.ruekertmielke.com

PROJECT NUMBER: 8280-10002.100

www.ruekertmielke.com

[INJ23148]
Apr 13, 2020 - 1:35pm
G:\CAD_2018\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\
Z:\Data\Projects\Fitchburg\Thermo Fisher\Phase1\Plan-01.dwg
Layout1
XREFS: G:\SYMMLOGO-BRANCH OFFICES.dwg; 'dane county parcels.dwg

Apr 13, 2020 1:36pm PLOTTED BY:JKLIEVE SAVED BY:JKLIEVE
IMAGES:cs60905id; RM SQUARE_Full Color-Print;
XREFS:rm2234c; dane county parcels; pcbatffs; Ecbatffs
G:\C3D_20188\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Construction Access-01.dwg
ZCPL-CONSTRUCTION ACCESS-01

2020 THERMO FISHER FILL SITE

PROPOSED CONSTRUCTION ACCESS ROUTE AND PHASING PLAN

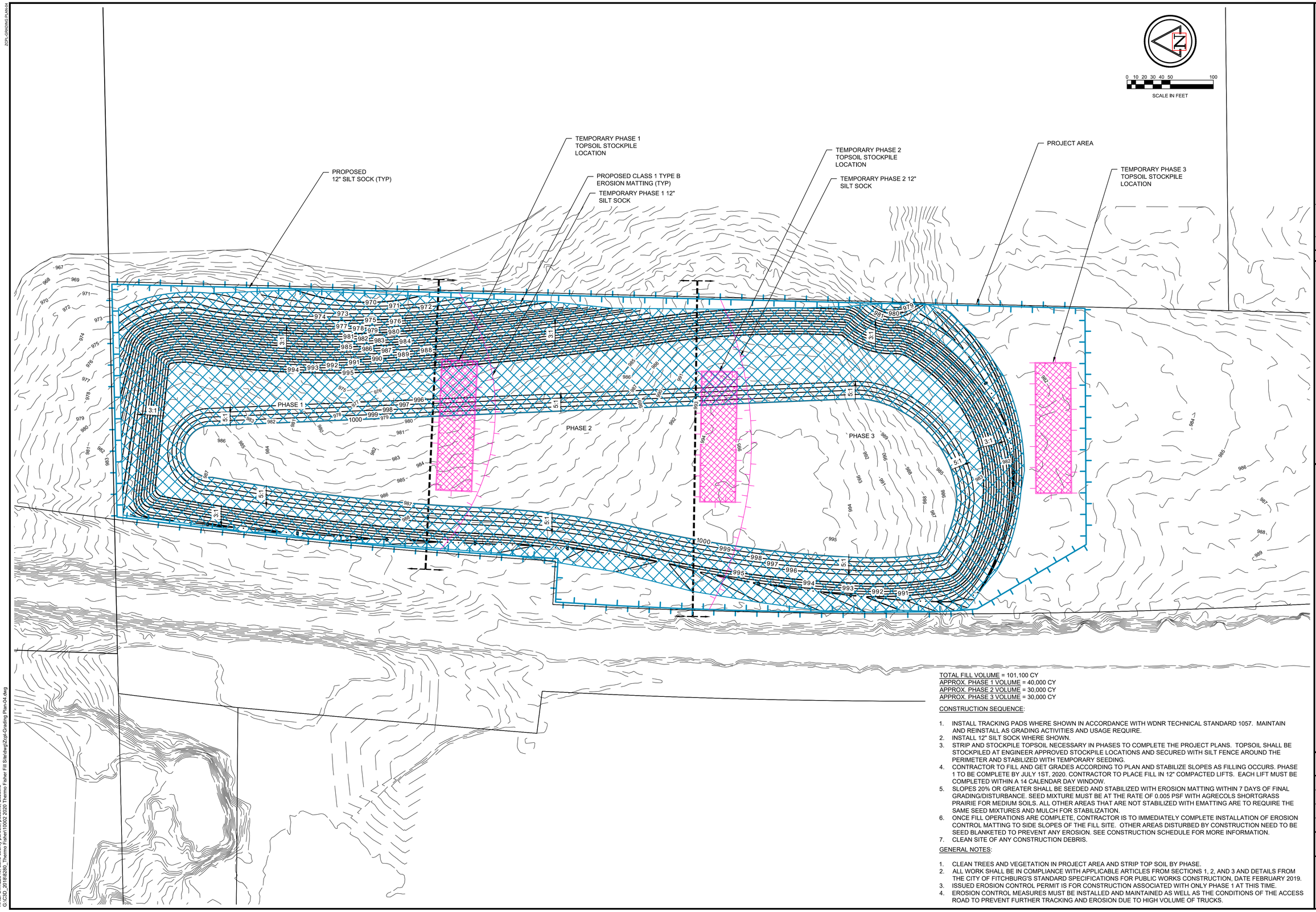
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

REVISIONS	
7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

SHEET NO. GN-01
FILE NO. 8280-10002.100
DATE: APRIL 13TH 2020
CHECKED BY: AVB
DRAFTED BY: JTK
DESIGNED BY: BET



TOTAL FILL VOLUME = 101,100 CY
APPROX. PHASE 1 VOLUME = 40,000 CY
APPROX. PHASE 2 VOLUME = 30,000 CY
APPROX. PHASE 3 VOLUME = 30,000 CY

CONSTRUCTION SEQUENCE:

1. INSTALL TRACKING PADS WHERE SHOWN IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1057. MAINTAIN AND REINSTALL AS GRADING ACTIVITIES AND USAGE REQUIRE.
2. INSTALL 12" SILT SOCK WHERE SHOWN.
3. STRIP AND STOCKPILE TOPSOIL NECESSARY IN PHASES TO COMPLETE THE PROJECT PLANS. TOPSOIL SHALL BE STOCKPILED AT ENGINEER APPROVED STOCKPILE LOCATIONS AND SECURED WITH SILT FENCE AROUND THE PERIMETER AND STABILIZED WITH TEMPORARY SEEDING.
4. CONTRACTOR TO FILL AND GET GRADES ACCORDING TO PLAN AND STABILIZE SLOPES AS FILLING OCCURS. PHASE 1 TO BE COMPLETE BY JULY 1ST, 2020. CONTRACTOR TO PLACE FILL IN 12" COMPACTED LIFTS. EACH LIFT MUST BE COMPLETED WITHIN A 14 CALENDAR DAY WINDOW.
5. SLOPES 20% OR GREATER SHALL BE SEEDED AND STABILIZED WITH EROSION MATTING WITHIN 7 DAYS OF FINAL GRADING/DISTURBANCE. SEED MIXTURE MUST BE AT THE RATE OF 0.005 PSF WITH AGRECOLS SHORTGRASS PRAIRIE FOR MEDIUM SOILS. ALL OTHER AREAS THAT ARE NOT STABILIZED WITH EMATTING ARE TO REQUIRE THE SAME SEED MIXTURES AND MULCH FOR STABILIZATION.
6. ONCE FILL OPERATIONS ARE COMPLETE, CONTRACTOR IS TO IMMEDIATELY COMPLETE INSTALLATION OF EROSION CONTROL MATTING TO SIDE SLOPES OF THE FILL SITE. OTHER AREAS DISTURBED BY CONSTRUCTION NEED TO BE SEED BLANKETED TO PREVENT ANY EROSION. SEE CONSTRUCTION SCHEDULE FOR MORE INFORMATION.
7. CLEAN SITE OF ANY CONSTRUCTION DEBRIS.

GENERAL NOTES:

1. CLEAN TREES AND VEGETATION IN PROJECT AREA AND STRIP TOP SOIL BY PHASE.
2. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE ARTICLES FROM SECTIONS 1, 2, AND 3 AND DETAILS FROM THE CITY OF FITCHBURG'S STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, DATE FEBRUARY 2019.
3. ISSUED EROSION CONTROL PERMIT IS FOR CONSTRUCTION ASSOCIATED WITH ONLY PHASE 1 AT THIS TIME.
4. EROSION CONTROL MEASURES MUST BE INSTALLED AND MAINTAINED AS WELL AS THE CONDITIONS OF THE ACCESS ROAD TO PREVENT FURTHER TRACKING AND EROSION DUE TO HIGH VOLUME OF TRUCKS.

REVISIONS	
7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

Ruekert•Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

2020 THERMO FISHER FILL SITE

PROPOSED OVERALL GRADING AND EROSION CONTROL PLAN

CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

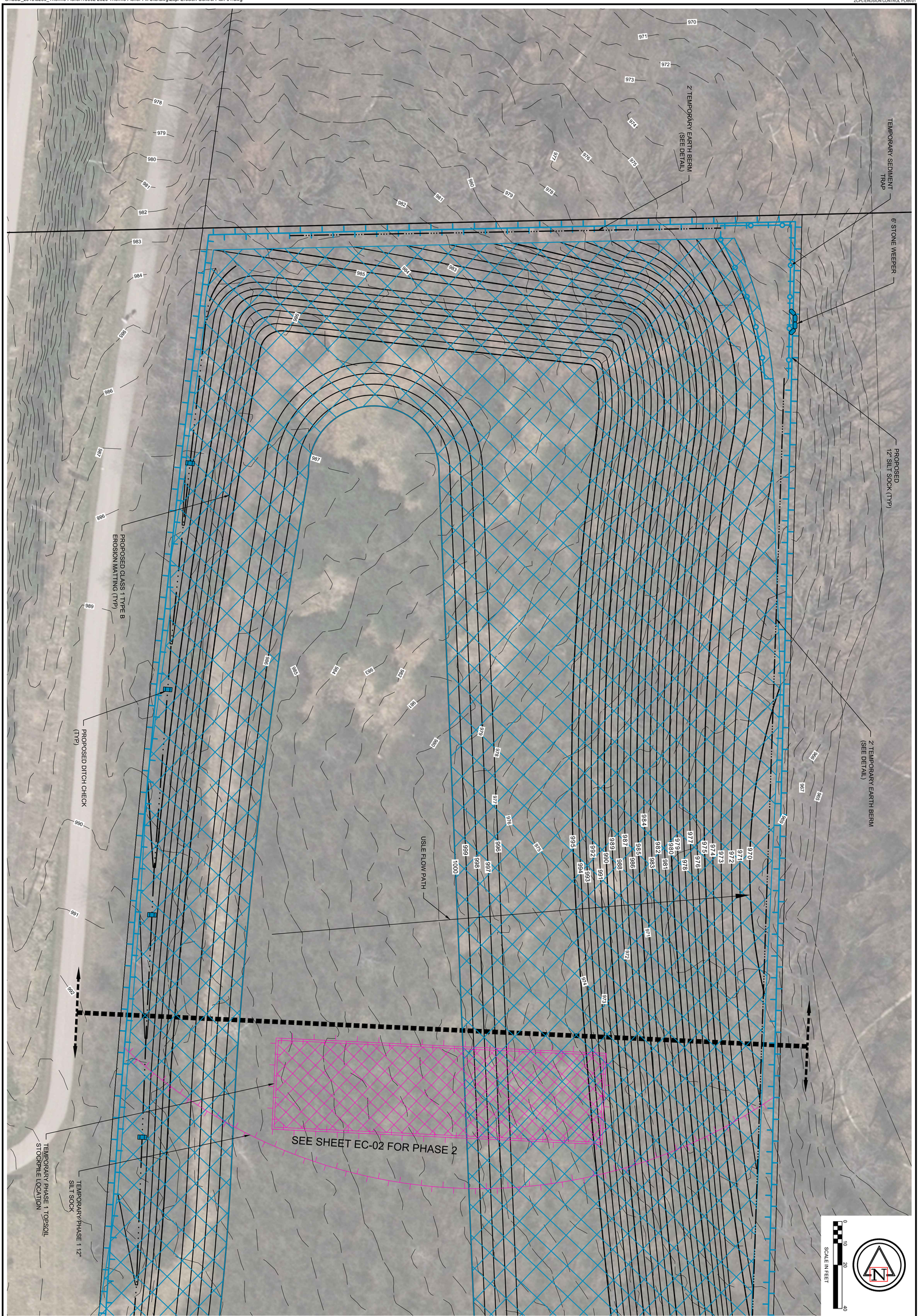
DESIGNED BY: BET
DRAFTED BY: JTK
CHECKED BY: AWB
DATE: APRIL 13TH 2020

FILE NO.
8280-10002.100

SHEET NO.
GR-01

ZCPL-GRADING PLAN-04
Apr 13, 2020 1:37pm PLOTTED BY: JKLIEVE SAVED BY: JKLIEVE
M:\8280\10002\Civil\Plan Sheets\Grading Plan\Zcpl-Grading Plan-04.dwg
XREFS:mr2234c; date county parcels; jcbatffs; EcbatffsG:\C3D_2018\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Grading Plan-04.dwg

Apr 13, 2020 1:38pm PLOTTED BY:JKLIEVE SAVED BY:JKLIEVE
IMAGES:cs60905id; RM SQUARE_Full Color-Print;
XREFS:rm2234c; dane county parcels; pcbatffs; views; Ecbatffs; Ecbatffs-Temp Berm
G:\C3D_2018\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Erosion Control Plan-01.dwg



SHEET NO. EC-01	8280-10002.100 FILE NO.	DATE: APRIL 13TH 2020	CHECKED BY: AWB	DRAFTED BY: JTK	DESIGNED BY: BET

2020 THERMO FISHER FILL SITE

PROPOSED PHASE 1 EROSION CONTROL PLAN

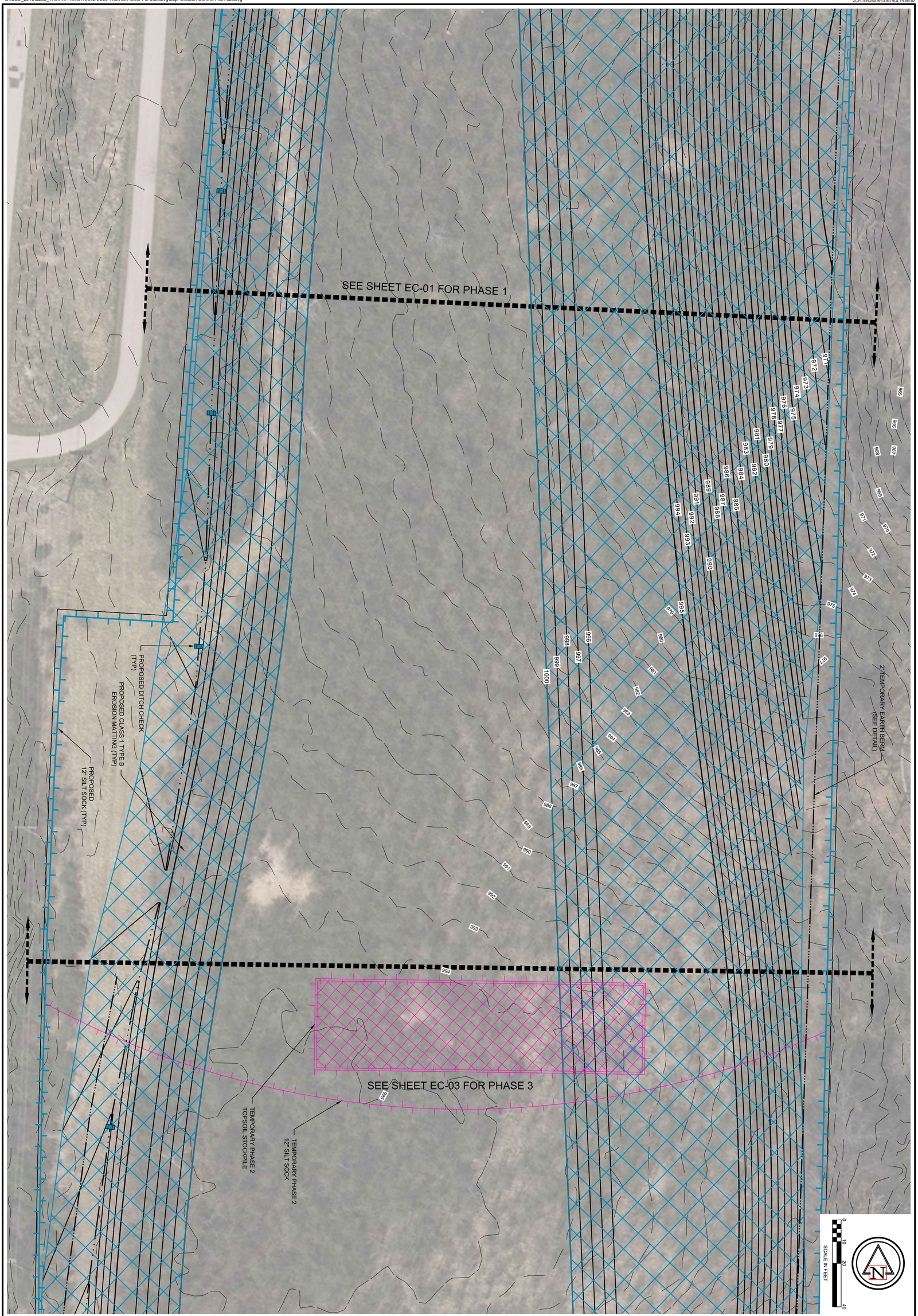
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

REVISIONS	
7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

Apr 13, 2020 1:39pm PLOTTED BY:JKLIEVE SAVED BY:JKLIEVE
IMAGES:cs60905id; RM SQUARE_Full Color-Print;
XREFS:rm2234c; dane county parcels; pcbatffs; views; Ecbatffs; Ecbatffs-Temp Berm
G:\C3D_20188\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Erosion Control Plan-02.dwg



SHEET NO. EC-02

FILE NO. 8280-10002.100

DATE: APRIL 13TH 2020

CHECKED BY: AWB

DRAFTED BY: JTK

DESIGNED BY: BET

2020 THERMO FISHER FILL SITE

PROPOSED PHASE 2 EROSION CONTROL PLAN

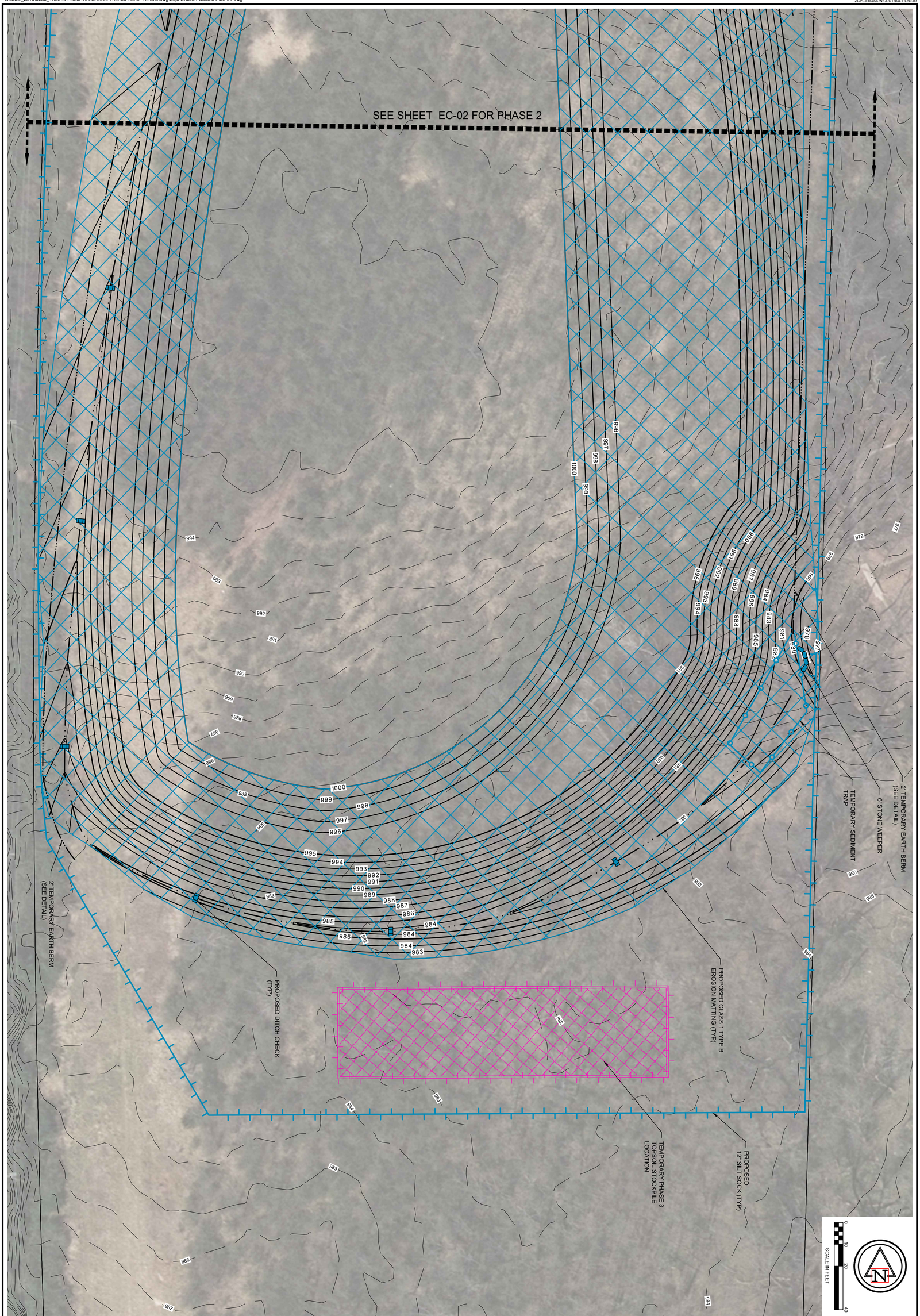
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

REVISIONS	
7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

Apr 13, 2020 1:40pm PLOTTED BY:JKLIEVE SAVED BY:JKLIEVE
IMAGES:cs60905id; RM SQUARE_Full Color-Print;
XREFS:rm2234c; dane county parcels; pcbatffs; views; Ecbatffs; Ecbatffs-Temp Berm
G:\C3D_2018\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Erosion Control Plan-03.dwg



SHEET NO. EC-03

FILE NO. 8280-10002.100

DATE: APRIL 13TH 2020

CHECKED BY: AWB

DRAFTED BY: JTK

DESIGNED BY: BET

2020 THERMO FISHER FILL SITE

PROPOSED PHASE 3 EROSION CONTROL PLAN

CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

REVISIONS	
7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

Apr 13, 2020 1:41pm PLOTTED BY:JKLIEVE SAVED BY:JKLIEVE
IMAGES:cs60905id; RM SQUARE_Full Color-Print;
XREFS:rm2234c; dane county parcels; pcbatffs; views
G:\C3D_2018\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Grading Plan-01.dwg

SHEET NO. **GR-02**

FILE NO. **8280-10002.100**

DATE: APRIL 13TH 2020

CHECKED BY: AWB

DRAFTED BY: JTK

DESIGNED BY: BET

2020 THERMO FISHER FILL SITE

PROPOSED PHASE 1 GRADING PLAN

CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

REVISIONS

7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

Apr 13, 2020 1:42pm PLOTTED BY:JKLIEVE SAVED BY:JKLIEVE
IMAGES:cs60905id; RM SQUARE_Full Color-Print;
XREFS:rm2234c; dane county parcels; pcbatffs; views
G:\C3D_2018\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Grading Plan-02.dwg

ZCPL-GRADING PLAN-02

SHEET NO.
GR-03

FILE NO.
8280-10002.100

DATE: APRIL 13TH 2020
CHECKED BY: AWB
DRAFTED BY: JTK
DESIGNED BY: BET

2020 THERMO FISHER FILL SITE

PROPOSED PHASE 2 GRADING PLAN

CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

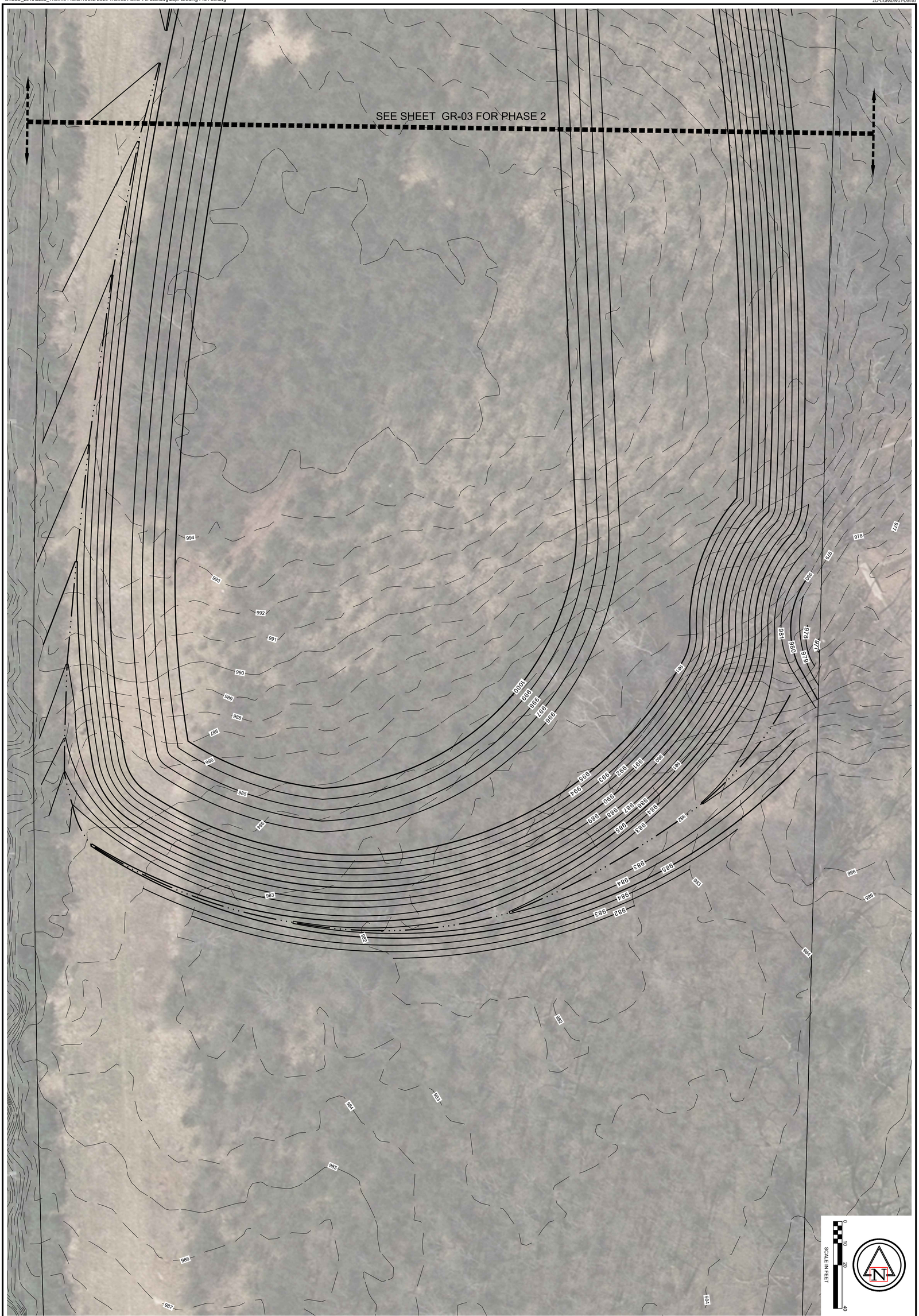
Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

REVISIONS	
7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

Apr 13, 2020 1:43pm PLOTTED BY:JKLIEVE SAVED BY:JKLIEVE
IMAGES:cs60905id; RM SQUARE_Full Color-Print;
XREFS:rm2234c; dane county parcels; pcbatffs; views
G:\C3D_2018\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcpl-Grading Plan-03.dwg

ZCPL-GRADING PLAN-03



SHEET NO.
GR-04

FILE NO.
8280-10002.100

DATE: APRIL 13TH 2020
CHECKED BY: AVB
DRAFTED BY: JTK
DESIGNED BY: BET

2020 THERMO FISHER FILL SITE

PROPOSED PHASE 3 GRADING PLAN

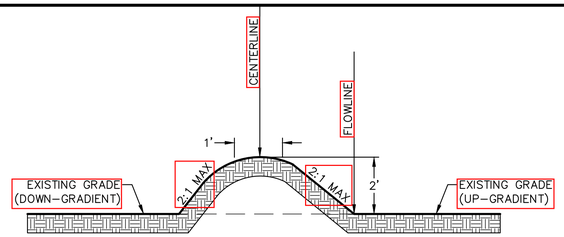
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

REVISIONS

7		
6		
5		
4		
3		
2		
1		

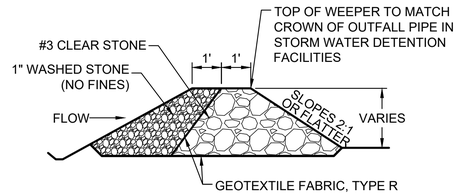
TOWN: 6N RANGE: 9E SECTION(s): 5SW



TEMPORARY BERM DETAIL

NO SCALE

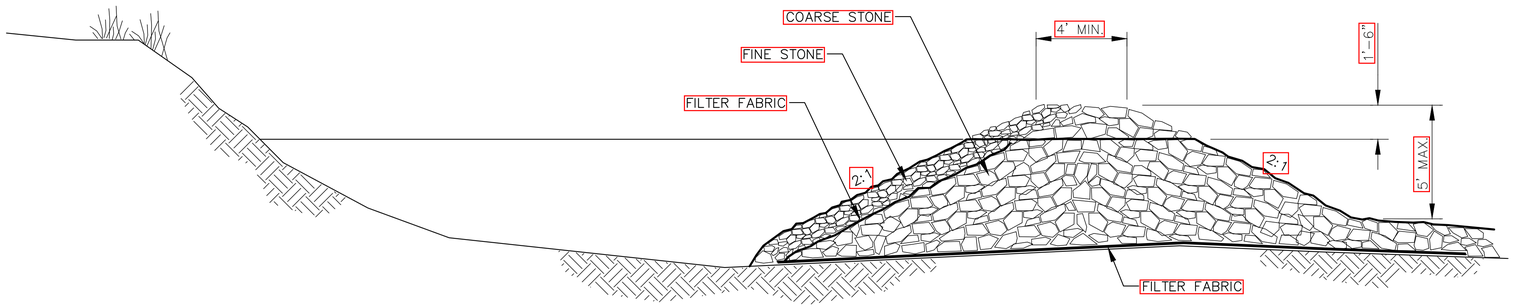
EC-SWALE-01 2



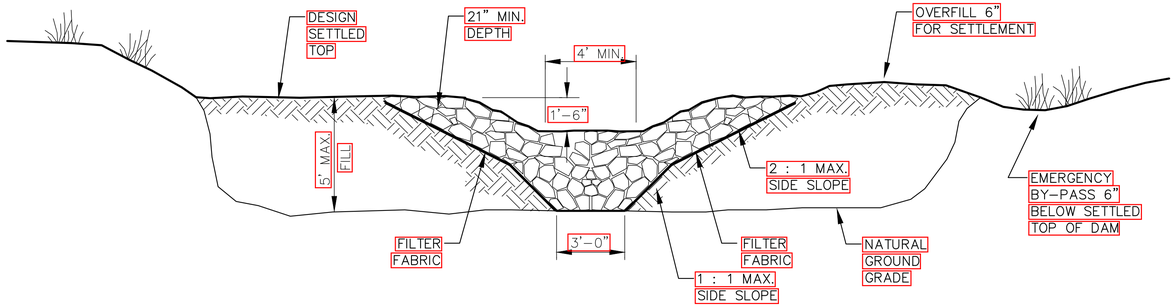
STONE WEEPER

NO SCALE

EC-RR-06 32



CROSS SECTION



ELEVATION

TEMPORARY SEDIMENT TRAP DETAIL

NO SCALE

EC-SED-02 40

REVISIONS	
7	
6	
5	
4	
3	
2	
1	TOWN: 6N RANGE: 9E SECTION(s): 5SW

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

2020 THERMO FISHER FILL SITE

CONSTRUCTION DETAILS

CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

DESIGNED BY: BET

DRAFTED BY: JTK

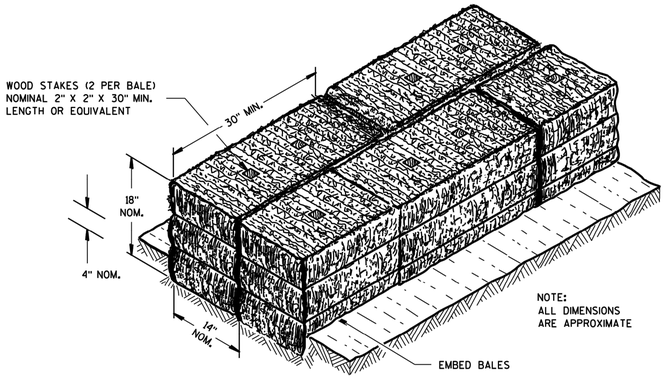
CHECKED BY: AWB

DATE: APRIL 13TH 2020

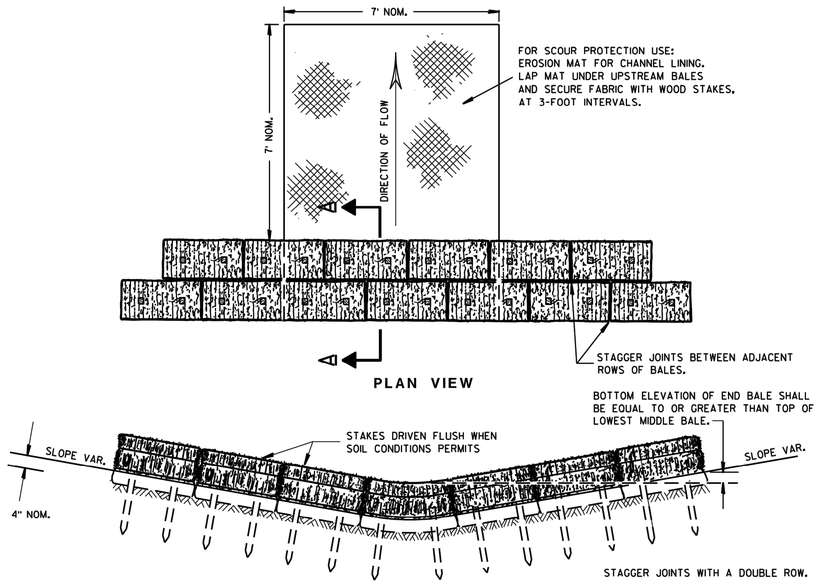
FILE NO.
8280-10002.100

SHEET NO.
DT-01

SDD 8e8 Typical Installations of Erosion Bales/Temporary Ditch Checks



SECTION A-A

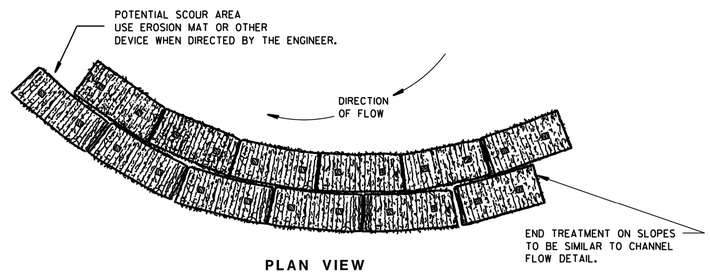


TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

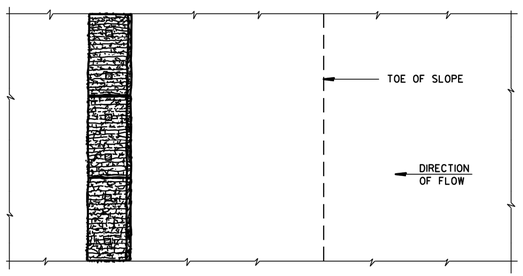
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

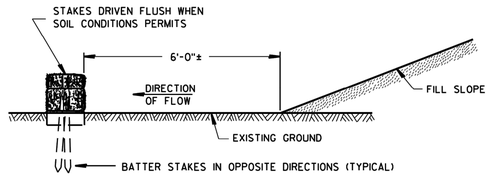


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

6

S.D.D. 8 E 8-3

REVISIONS							
1	2	3	4	5	6	7	Δ

TOWN: 6N RANGE: 9E SECTION(s): 5SW

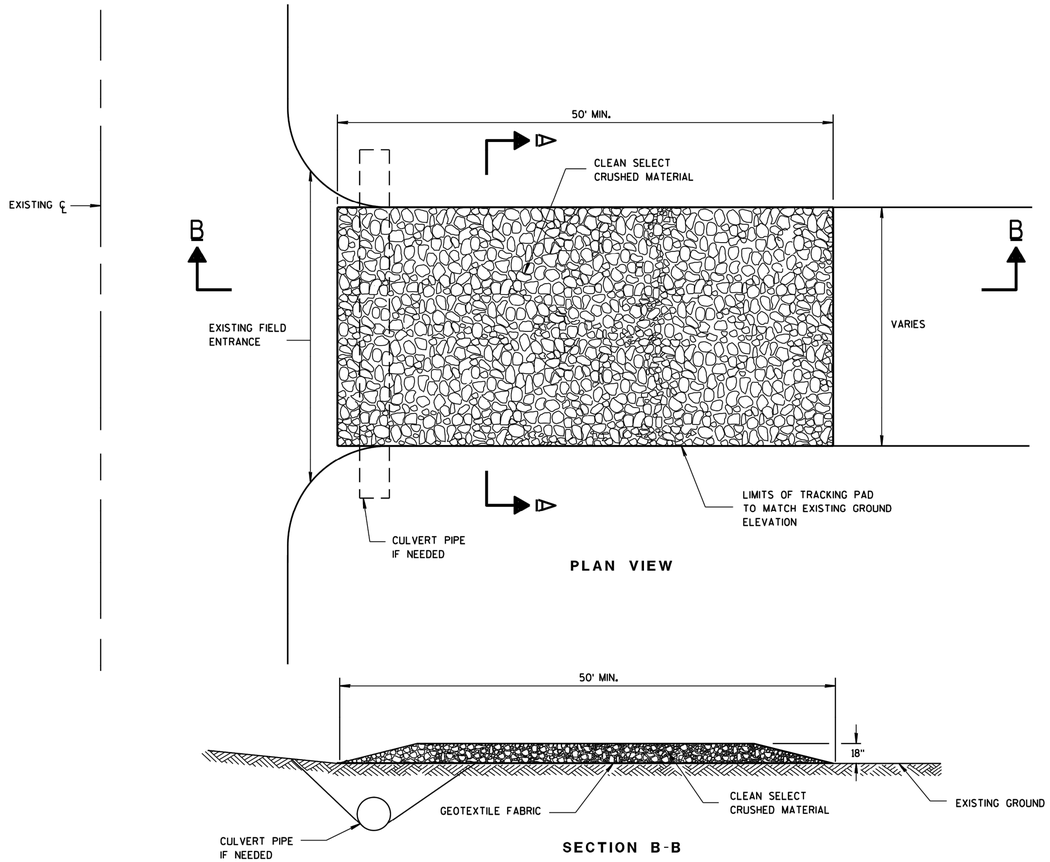
Ruekert•Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

2020 THERMO FISHER FILL SITE
CONSTRUCTION DETAILS
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

DESIGNED BY: BET
DRAFTED BY: JTK
CHECKED BY: AWB
DATE: APRIL 13TH 2020
FILE NO.
8280-10002.100

SHEET NO.
DT-02

SDD 8e14 Tracking Pad



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

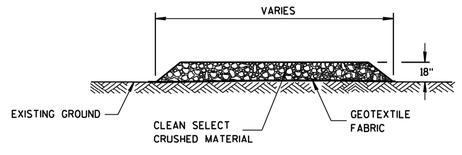
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3-24-2011 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

REVISIONS	
7	
6	
5	
4	
3	
2	
1	

TOWN: 6N RANGE: 9E SECTION(s): 5SW

Ruekert • Mielke
Waukesha • Kenosha • Madison
Global Water Center • Fox Valley
www.ruekertmielke.com

2020 THERMO FISHER FILL SITE
CONSTRUCTION DETAILS
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

DESIGNED BY: BET
DRAFTED BY: JTK
CHECKED BY: AWB
DATE: APRIL 13TH 2020

FILE NO.
8280-10002.100

SHEET NO.
DT-03

Apr 13, 2020 1:43pm PLOTTED BY: JKLIEVE SAVED BY: JKLIEVE
MADISON 2000 SCALE: 1:1 PAGE SETUP: 6x4 Construction
XREFS: m=2234=, EC-SWALE-01, EC-SED-02, EC-RR-06
G:\C3D_2019\8280_Thermo Fisher\10002 2020 Thermo Fisher Fill Site\dwg\Zcdt-Construction Details-01.dwg