

COVER SYSTEM MAINTENANCE PLAN

March 2023

Property Located at:

RockGen Energy, LLC
2346 Clear View Road
Cambridge, Wisconsin 53523

BRRTS Number:

02-13-587341

Parcel Identification Number:

061223285002

Introduction

This document is the Maintenance Plan for an asphalt and geosynthetic cover system at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to the existing area around the fire suppression building which addresses or occupies the area over the soil and groundwater.

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

- The case file in the Wisconsin Department of Natural Resources (DNR) South Central 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; and
 - RR Sites Map for a map view of the site.
- The DNR project manager for Dane County.

D.1. Descriptions

Description of Contamination

Soil contaminated by per- and polyfluoroalkyl substances (PFAS) and perfluorooctanoic acid (PFOA) is located at a depth of 0-2 feet within the impacted area shown on Figure 1. Groundwater contaminated by PFOA was most recently modeled in 3-D using Earth Volumetric Studio (EVS) software. Figure 2 shows the most recently created model using groundwater monitoring data collected in July 2022. The extent of PFOA contamination is modeled beneath the capped areas from the water at approximately 55 feet below ground surface (ft bgs) to approximately 200 ft bgs.

Description of the Cover System to be Maintained

The remedial action cover system consists of a 5-inch-thick hot mix asphalt in areas with vehicle traffic and a geosynthetic cover system in landscaped areas consisting of:

- Non-woven geotextile cushion;
- 40-millimeter linear low-density polyethylene (LLDPE) Geomembrane;

COVER SYSTEM MAINTENANCE PLAN

- Engineered synthetic turf; and
- Hydrobinder infill.

The geosynthetic cover system was designed to cap three distinct areas of the Site. These areas are identified as Cover Area 1, Cover Area 2, and Cover Area 3 identified in the attached engineering specifications in Appendix 1 (Plan Sheet number 5). General descriptions of these areas are as follows:

- Cover Area 1 includes a portion of the grass lined swale (approximately 12,000 square feet) on the western side of the Fuel Unloading Area and asphalt.
- Cover Area 2 includes the partially covered piping network on the eastern side of the Fuel Unloading Area. This area is approximately 2,000 square feet. The subgrade of this area consisted of crushed gravel.
- Cover Area 3 is located on the eastern side of the Fire Pump House and between the Site's water and fuel tanks. This area is approximately 2,500 square feet. The subgrade of this area consisted of crushed gravel.

The asphalt cover is located in areas of truck and equipment traffic around the fire suppression building, in the fuel oil unloading area, and adjacent to the water and fuel tanks as shown on Figures 1 and 2 and Appendix 1. Details of the cover system installation are provided in Appendix 1.

Cover System Purpose

The asphalt and geosynthetic cover system act as an infiltration barrier to eliminate the migration to groundwater pathway through the contaminated soil remaining below the covers. This also will minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code, and/or site-specific groundwater criteria. Based on the current use of the property, power generation facility, the cover system should function as intended unless disturbed.

Annual Inspection

The asphalt and geosynthetic cover system overlying the contaminated soil and ground water and as depicted in Figures 1 and 2 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 additional infiltration into or exposure to underlying soils. The inspections will be performed by the property owner 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 where infiltration from the surface will not be effectively minimized will be documented.

Annual inspections should make observations of the following:

Asphalt

Observe surface for cracks, fissures, shrinkage from adjacent structures, setline, or stormwater ponding. Cracks should be sealed with asphalt, tar, or other sealants as appropriate to maintain an impenetrable surface.

COVER SYSTEM MAINTENANCE PLAN

Geosynthetic Cover System

Lawnmowing and the operation of equipment and trucks should be restricted in these areas. Observe the area for appearance of ripples, wrinkles, cracks, settling, or water ponding. Ripples (small wrinkles that cannot be folded over) should be monitored, but don't need to be repaired. Larger wrinkles should be evaluated by the manufacturer (Watershed Geo). Every five years the HydroTurf® System should be evaluated. If the engineered turf backing is found to be depleted, the manufacturer infill material should be replenished.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site; or, if there is no acceptable place (for example, no building is present) to keep it at the site, at the address of the property owner and available for submittal or inspection by DNR representatives upon their request.

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. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored, and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the asphalt and geosynthetic cap overlying the impacted soil are removed or replaced, the replacement cover system must be equally impervious. Any replacement cover system 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 property owner, in order to maintain the integrity of the asphalt and geosynthetic cover system 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 property owner 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 a Cover System

The following activities are prohibited on any portion of the property where the asphalt and geosynthetic cover system is required as shown on the attached map, unless prior written approval has been obtained from the DNR: 1) removal of the existing cover system; 2) replacement with another cover system; 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; and 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.

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If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner 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.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of DNR.

Contact Information

March 2023

Site Owner and Operator: Steven Hintz
Dairyland Power Cooperative
3200 East Avenue South
La Crosse, WI 54602
(608) 788-4000

Signature: _____

(DNR may request signature of affected property owners, on a case-by-case basis)

Property Owner: Dairyland Power Cooperative
3200 East Avenue South
La Crosse, WI 54602
(608) 788-4000

Signature: _____

Consultant: Jeff Ramey
TRC Environmental Corporation
6737 West Washington Street, Suite 2100
West Allis, WI 53214
(414) 294-9247
jramey@trccompanies.com

DNR: Luke Lampo
3911 Fish Hatchery Rd
Fitchburg, WI 53711
(608) 206-5809
Luke.lampo@wisconsin.gov

COVER SYSTEM MAINTENANCE PLAN

D.2 Location Map(s)

Figure 1 – Extent of Impacted Soil and Covers

Figure 2 – July 2022 Modeled Groundwater Plume

Appendix 1 – Engineering Specifications

D.3 Photographs of Cover System

Asphalt Paving Photographic Log

D.4 Continuing Obligations Inspection and Maintenance Log

DNR Fillable [Form 4400-305](#)



LEGEND

- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- STORM SEWER INLET
- ASPHALT CAP
- HYDROTURF CAP
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- EXTENT OF PFOA CONTAMINATION

BORING/SAMPLE ID (SAMPLE DEPTH, FT BGS)
 RESULTS (µg /kg)

SOIL RESULTS FOR SELECT PFAS
 (DETECTIONS OF 8:2 FTS, PFOA, AND PFOS)

NOTES

- BASE MAP IMAGERY FROM DANE COUNTY, 2020.
- PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.

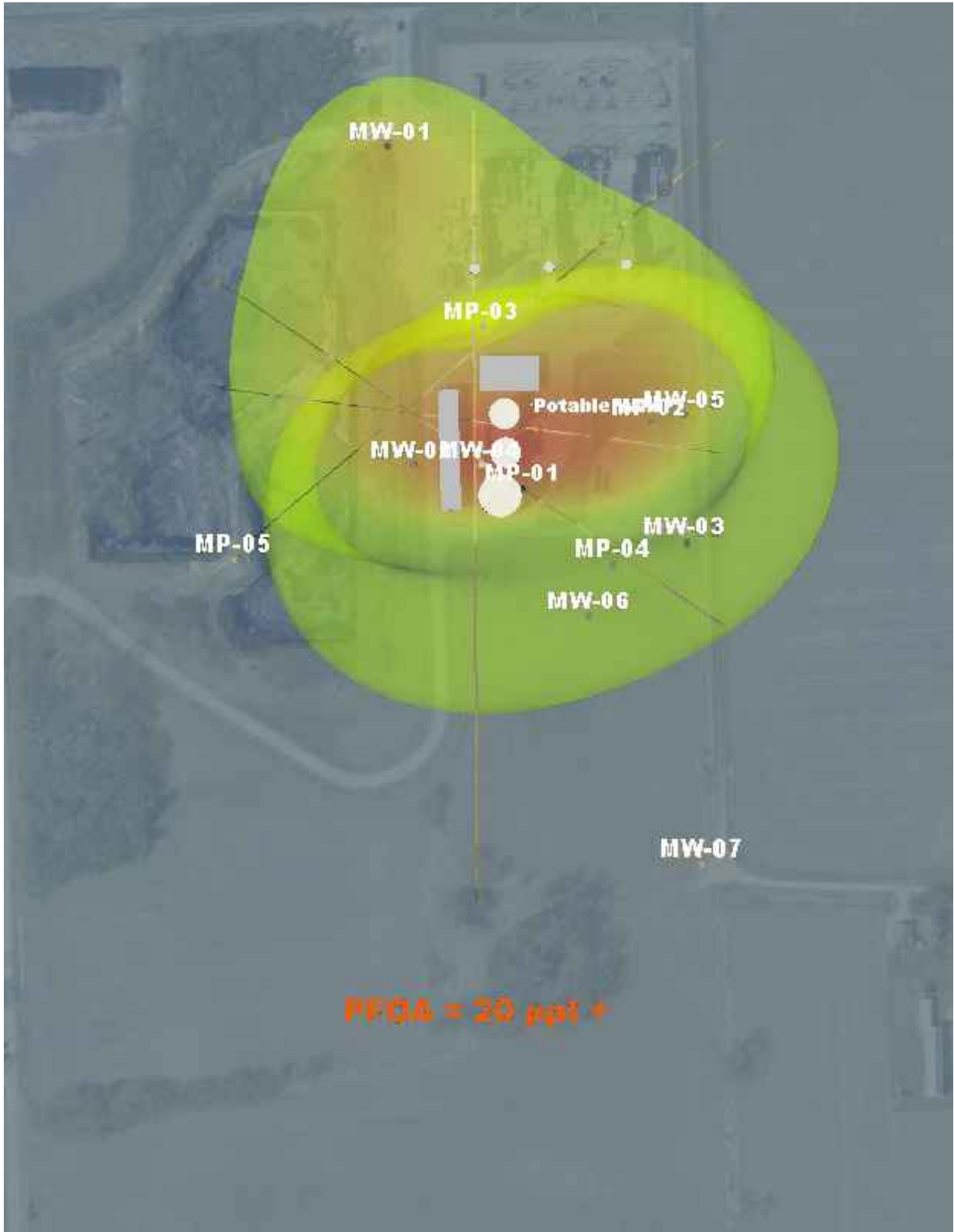
PROJECT: BRTS #02-13-587341
 ROCKGEN ENERGY CENTER
 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA
 DANE COUNTY, WISCONSIN 53523

TITLE: EXTENT OF IMPACTED SOIL AND CAP

DRAWN BY:	M. RAYMOND	PROJ. NO.:	437865
CHECKED BY:	A. KAILAS	FIGURE 1	
APPROVED BY:	J. RAMEY		
DATE:	FEBRUARY 2023		

TRC 708 Heartland Trail, Suite 3000
 Madison, WI 53717
 Phone: 608.826.3600
 www.trccompanies.com

FILE NO.: 437865-SIR-001_Impacted_Soil.mxd



6.611 - USER: Jkoniar - ATTACHED XREFS: -- ATTACHED IMAGES: Figure 2 (ref)
 DRAWING NAME: J:\RockGen Energy Center\437865-02.dwg --- PLOT DATE: March 03, 2023 - 7:07AM --- LAYOUT: FIGURE 2
 Version: 2017-10-21


 6737 West Washington St.
 Suite 2100
 West Allis, WI 53214
 Phone: 262.879.1212

PROJECT: **BRRTS #02-13-587341**
ROCKGEN ENERGY CENTER
2346 CLEAR VIEW RD, TOWN OF CHRISTIANA
DANE COUNTY, WISCONSIN 53523

TITLE:
JULY 2022
MODELED GROUNDWATER PLUME

DRAWN BY:	J. KONIAR
CHECKED BY:	J. RAMEY
APPROVED BY:	J. RAMEY
DATE:	DECEMBER 2022
PROJ. NO.:	437865
FILE:	437865-02.dwg

FIGURE 2

HYDROTURF® CAP

SUBGRADE PREPARATION

1. WITHIN THE VEGETATED DITCH AREA (COVER AREA 1), EXISTING VEGETATION WAS MOWED TO LESS THAN 1 INCH AND DEBRIS WAS REMOVED FROM THE LIMITS OF THE GEOSYNTHETIC CAP AREA PRIOR TO ANCHOR TRENCH EXCAVATION AND FINE GRADING. WITHIN THE EXISTING GRAVEL COVERED AREA (COVER AREAS 2 AND 3), EXCESSIVELY LARGE OR ANGULAR GRAVEL WAS REMOVED FROM UNDER THE GEOSYNTHETIC CAP AREA PRIOR TO ANCHOR TRENCH EXCAVATION AND FINE GRADING.
2. THE GEOSYNTHETIC ANCHOR TRENCH WAS EXCAVATED ALONG THE LIMITS OF THE GEOSYNTHETIC CAP AREA. SEE PLAN SHEET 5 FOR LOCATIONS. SOIL FROM ANCHOR TRENCH WAS USED FOR FINE GRADING BENEATH THE GEOSYNTHETIC CAP.
3. THE GEOSYNTHETIC CAP CONSISTS OF A NON-WOVEN GEOTEXTILE CUSHION, A 40-MIL LINEAR LOW-DENSITY POLYETHYLENE (LLDPE) MICROSPIKED GEOMEMBRANE, AN ENGINEERED TURF COMPONENT, AND MANUFACTURED HYDROBINDER® INFILL. SEE DETAIL 1 ON PLAN SHEET 9.
4. IN CAP AREAS WITH EXISTING CONCRETE FOUNDATIONS (PIPE RACKING SYSTEMS, TANK AND BUILDING STRUCTURE SLAB FOUNDATIONS, ETC.), SUBGRADE WAS GRADED TO PROVIDE POSITIVE DRAINAGE OF THE GEOSYNTHETIC CAP AWAY FROM THE STRUCTURES. SEE DETAILS 5, 6 AND 7 ON PLAN SHEET 9.
5. PRIOR TO GEOSYNTHETIC DEPLOYMENT, SUBGRADE WAS VISUALLY EXAMINED TO CONFIRM SUITABILITY FOR INSTALLATION.

GEOTEXTILE AND GEOMEMBRANE DEPLOYMENT

1. GEOTEXTILE WAS HANDLED AND PLACED IN SUCH A MANNER AS TO PREVENT DAMAGE OF THE MATERIAL AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. 16-OZ NON-WOVEN GEOTEXTILE WAS PLACED IN AREAS OF COVER OVER CRUSHED GRAVEL SUBGRADE. IN AREAS WHERE GEOSYNTHETICS WERE INSTALLED OVER GRASS, 10-OZ NON-WOVEN GEOTEXTILE WAS PLACED.
3. GEOTEXTILE PLACEMENT WAS CONDUCTED IN A MANNER THAT MINIMIZED WRINKLING. SEAMS OVERLAPPED THE ADJACENT GEOTEXTILE PANELS A MINIMUM OF 6 INCHES AND WERE FUSION WELDED.
4. GEOMEMBRANE WAS HANDLED AND PLACED IN SUCH A MANNER AS TO PREVENT DAMAGE OF THE MATERIAL AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. GEOMEMBRANE WAS NOT PLACED DURING PRECIPITATION, IN AREAS OF PONDED WATER, OR DURING EXCESSIVE WINDS.
6. GEOMEMBRANE PLACEMENT WAS CONDUCTED IN A MANNER THAT MINIMIZED WRINKLING OR DAMAGE TO THE GEOMEMBRANE. SEAMS OVERLAPPED THE ADJACENT PANEL A MINIMUM OF 3 INCHES AND WERE FIELD SEAMED USING APPROVED METHODS FOR FIELD SEAMING. THESE INCLUDED EXTRUSION WELDS AND DUAL HOT WEDGE FUSION WELDS.
7. GEOMEMBRANE INSTALLATION WAS PREPARED, SEAMED, TESTED, AND DOCUMENTED CONSISTENT WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) CHS. NR 500 REQUIREMENTS AND THE PROJECT SPECIFICATIONS.
8. GEOMEMBRANE AND GEOTEXTILE WERE EXTENDED INTO THE ANCHOR TRENCH THAT WAS SECURED WITH CONCRETE FOLLOWING THE HYDROTURF DEPLOYMENT. SEE DETAILS 2, 3 AND 4 ON PLAN SHEET 9.

ENGINEERED TURF AND HYDROBINDER® INFILL PLACEMENT

1. FOLLOWING DEPLOYMENT OF THE GEOMEMBRANE, THE ENGINEERED TURF WAS PLACED.
2. PRIOR TO DEPLOYMENT OF ENGINEERED TURF, THE SUPPORTING SURFACE FOR THE ENGINEERED TURF (E.G. GEOMEMBRANE AND GEOTEXTILE SURFACE) WAS FREE OF STONES AND DEBRIS.
3. DURING DEPLOYMENT, ENGINEERED TURF WAS TESTED AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED BY THE MANUFACTURER.
4. ENGINEERED TURF SEAMING WAS COMPLETED USING A DEVICE SPECIFICALLY MADE FOR ENGINEERED TURF SEAMING.
5. ENGINEERED TURF WAS EXTENDED INTO AN ANCHOR TRENCH LOCATED ADJACENT TO THE CAP AREA THAT WAS SECURED WITH CONCRETE. SEE DETAILS 2, 3 AND 4 ON PLAN SHEET 9.
6. HYDROBINDER INFILL WAS PLACED ON THE PREPARED SURFACE OF THE ENGINEERED TURF. THE INFILL MATERIAL MET THE REQUIREMENTS PRESENTED IN THE PROJECT SPECIFICATIONS PROVIDED BY THE MANUFACTURER. THE HYDROBINDER INFILL COMPONENT WAS NOT PLACED IN WET, RAINY, OR INCLEMENT WEATHER OR IN FREEZING TEMPERATURES. THE HYDROBINDER INFILL COMPONENT WAS PLACED PER THE SPECIFICATIONS PROVIDED BY THE MANUFACTURER.

ASPHALT CAP

SUBGRADE PREPARATION

1. PRIOR TO ASPHALT PLACEMENT, THE SUBGRADE WAS FINE GRADED TO PROMOTE POSITIVE DRAINAGE. SUBGRADE CUT AND FILL VOLUMES WERE BALANCED TO THE EXTENT POSSIBLE TO MINIMIZE THE VOLUME OF CONTAMINATED SOIL HAULED OFF SITE.
2. THE SUBGRADE WAS FINE GRADED SO THAT THE CURRENT DRAINAGE PATTERN FOR THE SITE REMAINED UNCHANGED.
3. THE SUBGRADE WAS COMPACTED USING A SMOOTH DRUM ROLLER WITH A MINIMUM STATIC WEIGHT OF 15,000 LBS. SUBGRADE WAS COMPACTED UNTIL NO VISIBLE DEFORMATION WAS OBSERVED BENEATH THE ROLLER. SUBGRADE THAT APPEARED TO BE DEFORMED WAS REPLACED OR STABILIZED.

ASPHALT PLACEMENT

1. COMPACTED SUBGRADE WAS DRY AND READY TO SUPPORT PAVING AND IMPOSED LOADS.
2. EDGES OF EXISTING PAVEMENT WERE KEPT FREE OF LOOSE STONES OR PAVEMENT PIECES.
3. ASPHALT WAS LAID IN TWO LIFTS (OVER THE EXISTING GRAVEL SURFACE) OR ONE LIFT (OVER EXISTING PAVEMENT SURFACES) FOLLOWING WISDOT SECTION 458 SPECIFICATIONS. SEE DETAILS 8 AND 9 ON PLAN SHEET 9. EDGE OF PAVEMENT GRADES WERE MATCHED TO EXISTING GRAVEL AND PAVEMENT GRADES AND TO PROVIDE POSITIVE DRAINAGE.
4. EDGES OF ASPHALT PAVEMENT WERE MILLED AND TAPERED AT PAVEMENT TRANSITIONS AND BUILDING ENTRANCES TO PREVENT "STEP-UP" TRIPPING SAFETY HAZARDS AND TRANSITIONS HIGHLY SUSCEPTIBLE TO DAMAGE DURING SNOW PLOWING.

MOUND SYSTEM EXCAVATION AND REGRADING

EXCAVATION

1. EXISTING UTILITIES AND FEATURES WERE LOCATED, IDENTIFIED, AND PROTECTED FROM DAMAGE.
2. PERIMETER OF EXCAVATION WAS GRADED TO PREVENT SURFACE WATER DRAINAGE INTO EXCAVATION AREA.
3. EXCAVATION WAS PROTECTED BY SHORING, BRACING, OR OTHER METHODS REQUIRED BY 29 CFR PART 1926 SUBPART P TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO EXCAVATION.
4. EXISTING MOUND SYSTEM AREA WAS EXCAVATED. SOILS WERE EXCAVATED TO THE DEPTH SHOWN ON THE EXCAVATION PLAN, SEE PLAN SHEET 6 AND DETAIL 13 ON PLAN SHEET 9.
5. CONTAMINATED SOIL WAS DISPOSED OF AT A LICENSED LANDFILL APPROVED TO ACCEPT PFAS/PFOA CONTAMINATED MATERIAL. CONTAMINATED SOIL WAS HANDLED AND STORED PRIOR TO DISPOSAL AT THE LANDFILL PER THE PROJECT SPECIFICATIONS.

BACKFILL

1. SOIL FILL CONSISTED OF GENERAL FILL THAT WAS FREE OF ORGANIC MATTER, REFUSE, MASONRY, METAL, SHARP OBJECTS, BOULDERS, SNOW, AND ICE.
2. GENERAL FILL DID NOT HAVE SOLID MATERIAL LARGER THAN 6 INCHES IN ITS LARGEST DIMENSION.
3. PROPER MOISTURE CONTENT WAS MAINTAINED AND GENERAL FILL WAS PLACED AND COMPACTED IN LIFT THICKNESSES AS REQUIRED BY THE SPECIFICATIONS TO OBTAIN THE SPECIFIED LEVELS OF COMPACTION.

NOTE: THESE PLANS ARE ACCOMPANIED BY A DOCUMENTATION REPORT OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

PROJECT: **ROCKGEN ENERGY CENTER
PFAS SOIL INTERIM ACTIONS
CONSTRUCTION DOCUMENTATION
TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN**

TITLE: **GENERAL NOTES**

DRAWN BY: T. FIEBRANZ PROJ. NO.: 457746.0000

CHECKED BY: E. CEFALU

APPROVED BY: J. RAMEY

DATE: AUGUST 2022

SHEET 2 OF 9



6737 W. Washington Street
Suite 2100
West Allis, WI 53214
Phone: 262.878.1212

FILE NO.: 457746.0000 - GN.dwg

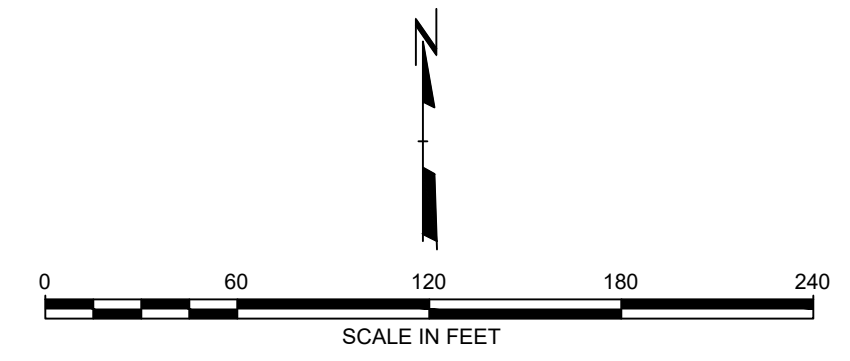
2/23/24 - USER: T:\admin - ATTACHED REF'S: Sample Points: EX - UN - EG-09-20-2021, EX - Site Features: 09-20-2021 - ATTACHED IMAGES: Dane County, 2020.
 DRAWING NAME: J:\RockGen\457746 - Construction Documentation\0000_457746_0000 - EX.dwg - PLOT DATE: August 04, 2022 - 6:02AM - LAYOUT: 22X34L



LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	EXISTING 5' CONTOUR
	EXISTING 1' CONTOUR
	APPROXIMATE EXISTING ASPHALT ROAD
	APPROXIMATE EXISTING FENCE
	EXISTING GATE ENTRANCE
	APPROXIMATE EXISTING STRUCTURE/BUILDING/TANK
	EXISTING DRAINAGE DITCH
	APPROXIMATE STORM SEWER LINE
	APPROXIMATE EXTENT OF INVESTIGATION
	POTABLE WELL LOCATION
	DEEP PRODUCTION WELL LOCATION
	SOIL BORING LOCATION
	SOIL SAMPLE LOCATION
	PIEZOMETER LOCATION
	MONITORING WELL LOCATION
	MANHOLE/CATCH BASIN LOCATION
	EXISTING FIRE HYDRANT AND VALVE
	EXISTING LIGHT POLE

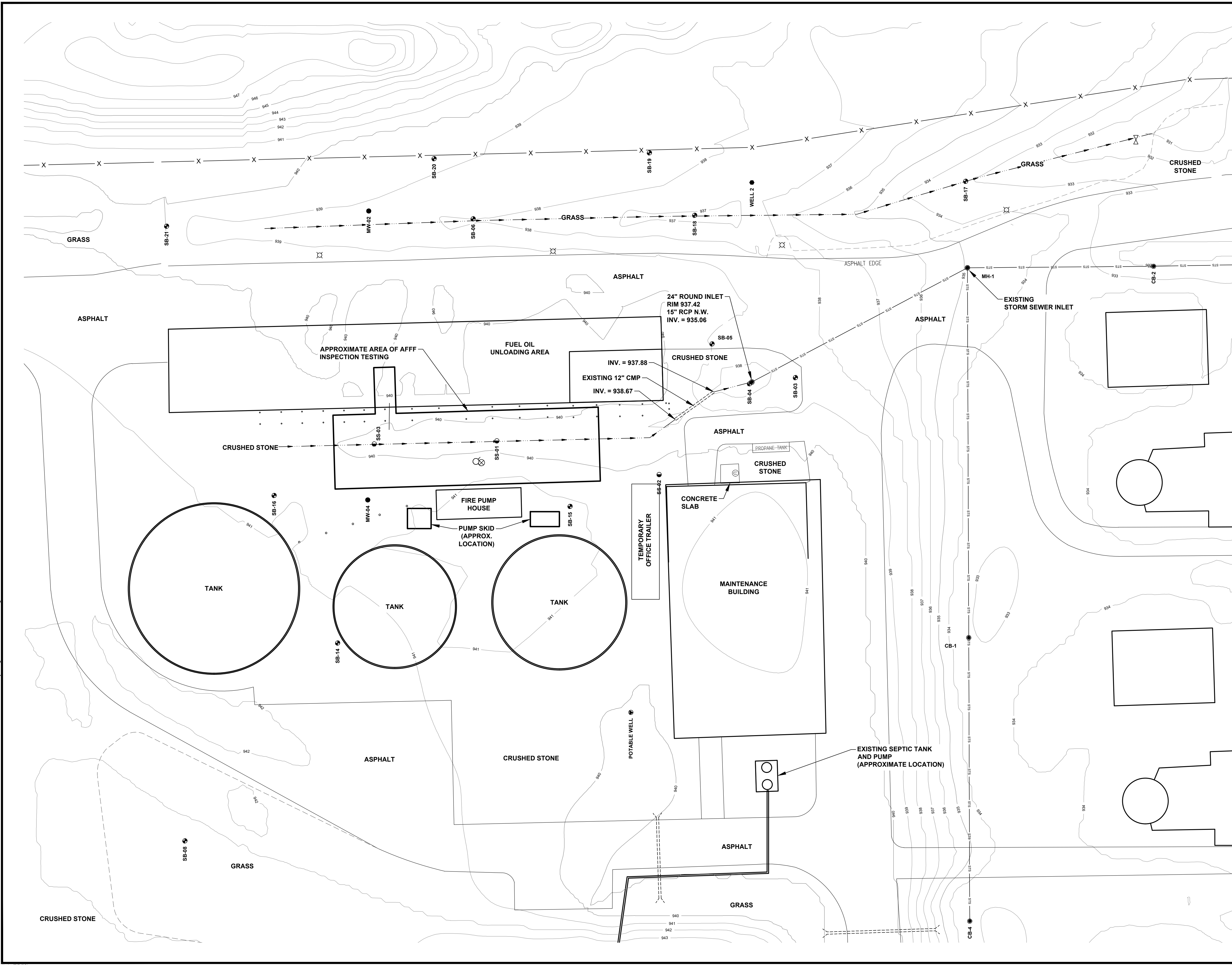
- NOTES**
1. BASE MAP DEVELOPED FROM IMAGERY FROM DANE COUNTY LAND INFORMATION, 2020.
 2. SITE TOPOGRAPHY COMPILED FROM THE FOLLOWING SOURCES:
 - CONTOUR DATA FROM THE DANE COUNTY LAND INFORMATION OFFICE, DATED 2017
 - TOPOGRAPHIC FIELD SURVEY BY WISCONSIN LAND SURVEY INC., DATED SEPTEMBER, 2021
 3. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHERS OFFICE PARCEL DATA.



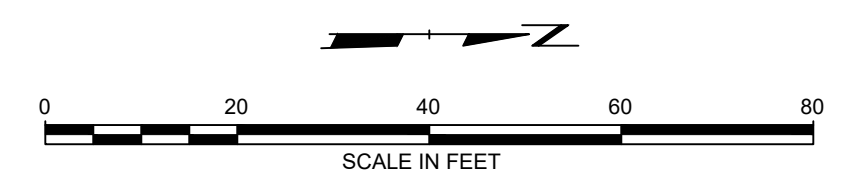
NOTE: THESE PLANS ARE ACCOMPANIED BY A DOCUMENTATION REPORT OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

PROJECT:		ROCKGEN ENERGY CENTER PFAS SOIL INTERIM ACTIONS CONSTRUCTION DOCUMENTATION TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN	
TITLE:		SITE LAYOUT	
DRAWN BY:	T. FIEBRANZ	PROJ. NO.:	457746.0000
CHECKED BY:	E. CEFALU	SHEET 3 OF 9	
APPROVED BY:	J. RAMEY		
DATE:	AUGUST 2022		
		6737 W. Washington Street Suite 2100 West Allis, WI 53214 Phone: 262.878.1212	
FILE NO.:		457746.0000 - EX.dwg	

2/23/24 - USER: T:\facilities - ATTACHED XREFS: Sample Points: EX - IRI - IR - Site Features: EG-09-20-2021 - EX - Site Features: 09-20-2021 - ATTACHED IMAGES: Dane County, 2021. DRAWING NAME: J:\RockGen\457746 - Construction Documentation\0000_457746_0000 - EX - Facility.dwg --- PLOT DATE: August 04, 2022 - 6:03AM --- LAYOUT: HYDROTURF AND ASPHALT CAP AREA EXISTING CONDITIONS



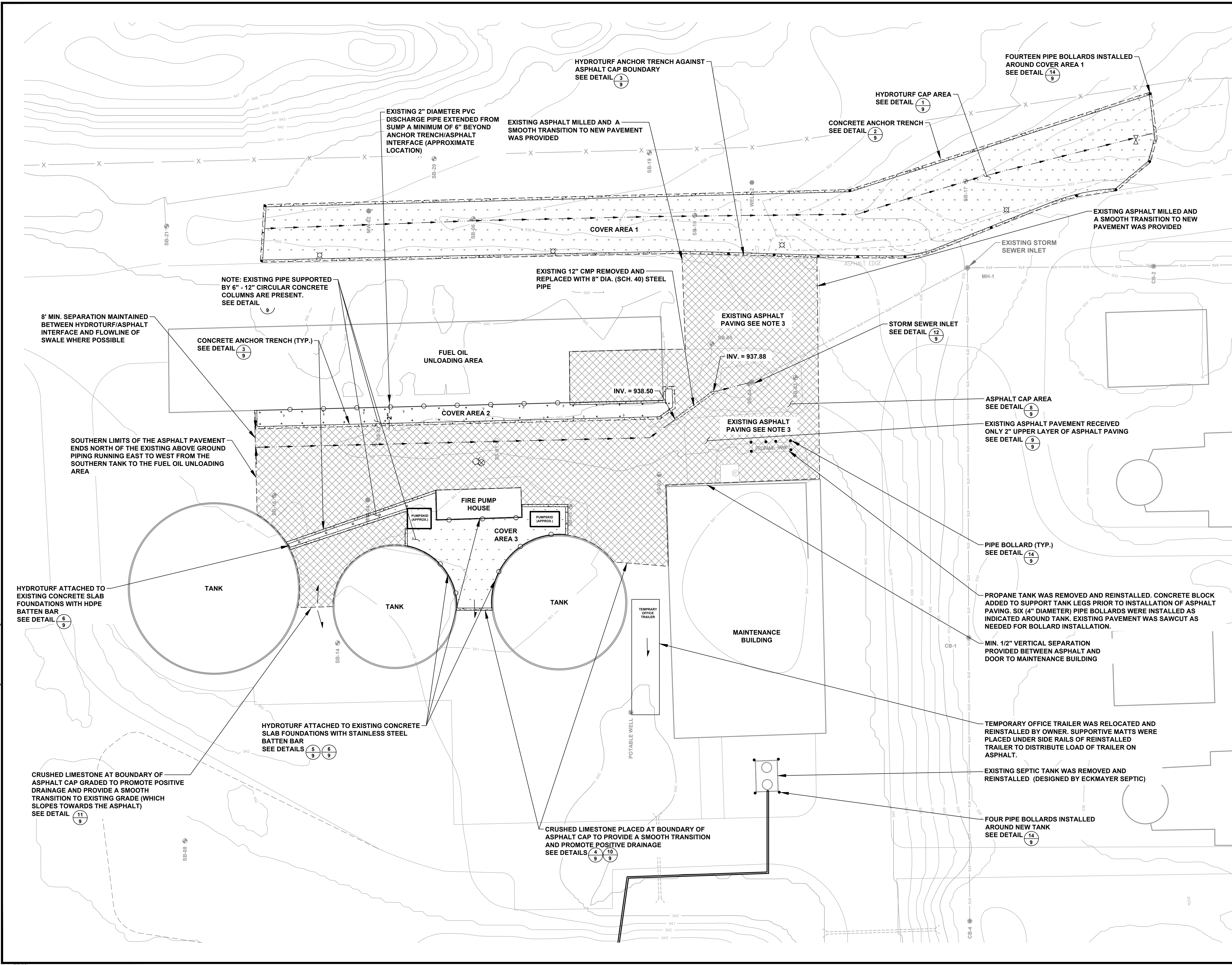
LEGEND	
	APPROXIMATE PROPERTY BOUNDARY
	EXISTING 5' CONTOUR
	EXISTING 1' CONTOUR
	APPROXIMATE EXISTING CONCRETE ROAD
	APPROXIMATE EXISTING FENCE
	EDGE OF GRAVEL
	EXISTING GATE ENTRANCE
	APPROXIMATE EXISTING STRUCTURE/BUILDING/TANK
	APPROXIMATE STORM SEWER LINE
	MONITORING WELL LOCATION
	POTABLE WELL LOCATION
	DEEP PRODUCTION WELL LOCATION
	SOIL BORING LOCATION
	SOIL SAMPLE LOCATION
	EXISTING FIRE HYDRANT AND VALVE
	EXISTING LIGHT POLE



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PROJECT: ROCKGEN ENERGY CENTER PFAS SOIL INTERIM ACTIONS CONSTRUCTION DOCUMENTATION TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN	
TITLE: HYDROTURF AND ASPHALT CAP AREA EXISTING CONDITIONS	
DRAWN BY: T. FIEBRANZ	PROJ. NO.: 457746.0000
CHECKED BY: E. CEFALU	
APPROVED BY: J. RAMEY	SHEET 4 OF 9
DATE: AUGUST 2022	
	6737 W. Washington Street Suite 2100 West Allis, WI 53214 Phone: 262.878.1212
FILE NO.: 457746.0000 - EX_Facility.dwg	

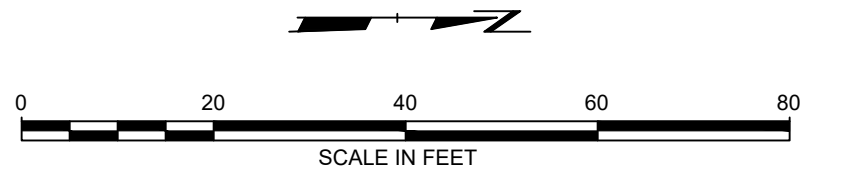
2/23/24 -- USER: T:\admin -- ATTACHED XREFS: Sample Points: PR, Site Features: EG-09-20-2021, EX - UJI -- ATTACHED IMAGES: Date, County, 2020, DRAWING NAME: J:\RockGen\457746 - Construction\Documentation\0000_457746_0000 - FG.dwg -- PLOT DATE: August 04, 2022 - 6:03AM -- LAYOUT: HYDROTURF AND ASPHALT CAP LOCATION



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- APPROXIMATE EXISTING ASPHALT ROAD
- APPROXIMATE EXISTING FENCE
- EDGE OF GRAVEL
- EXISTING GATE ENTRANCE
- APPROXIMATE EXISTING STRUCTURE/BUILDING/TANK
- APPROXIMATE STORM SEWER LINE
- MONITORING WELL LOCATION
- POTABLE WELL LOCATION
- DEEP PRODUCTION WELL LOCATION
- SOIL BORING LOCATION
- SOIL SAMPLE LOCATION
- EXISTING FIRE HYDRANT AND VALVE
- EXISTING LIGHT POLE
- BOLLARD
- ASPHALT CAP AREA
- HYDROTURF CAP AREA
- CONCRETE ANCHOR TRENCH AREA
- BATTEN BAR FOR CONNECTION OF GEOSYNTHETIC COVER TO CONCRETE
- SWALE

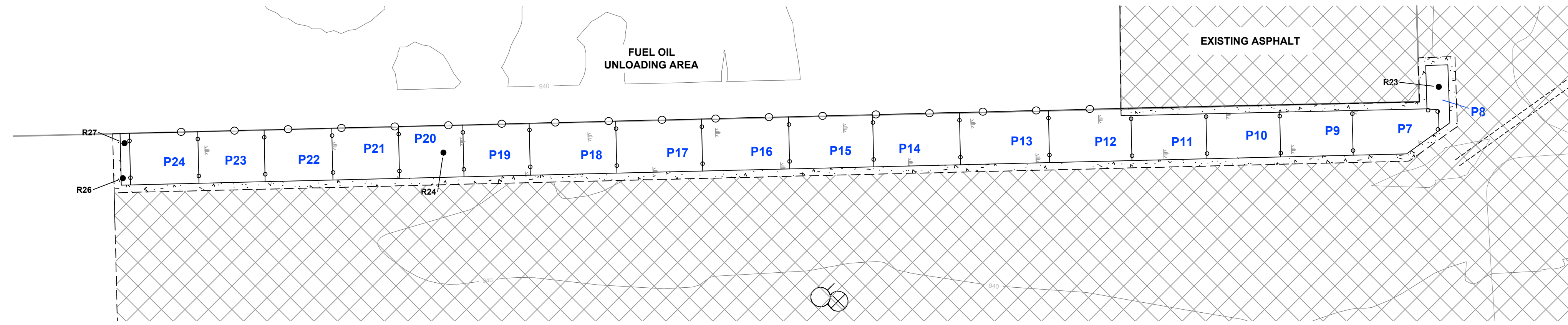
- NOTES**
1. PENETRATIONS THROUGH HYDROTURF WERE FILLED WITH HYDROBINDER.
 2. SUBGRADE BETWEEN TANKS AND FUEL UNLOADING AREA WAS CONFIGURED TO PROVIDE POSITIVE DRAINAGE OFF OF HYDROTURF AND ONTO ASPHALT PAVEMENT.
 3. EXISTING ASPHALT RECEIVED 2" UPPER LAYER ONLY.
 4. GEOSYNTHETIC COVER WAS INSTALLED IN 3 DISTINCT AREAS THROUGHOUT THE SITE, DENOTED AS COVER AREA 1, COVER AREA 2, AND COVER AREA 3.



NOTE: THESE PLANS ARE ACCOMPANIED BY A DOCUMENTATION REPORT OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

PROJECT: ROCKGEN ENERGY CENTER PFAS SOIL INTERIM ACTIONS CONSTRUCTION DOCUMENTATION TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN	
TITLE: HYDROTURF AND ASPHALT CAP LOCATION	
DRAWN BY: T. FIEBRANZ	PROJ. NO.: 457746.0000
CHECKED BY: E. CEFALU	SHEET 5 OF 9
APPROVED BY: J. RAMEY	
DATE: AUGUST 2022	
6737 W. Washington Street Suite 2100 West Allis, WI 53214 Phone: 262.878.1212	
FILE NO.:	457746.0000 - FG.dwg

2/23/24 -- USER: T\Fiebranz -- ATTACHED XREFS: Sample Points; PR: Site Features; EG: 09/20/2021; EX: Site Features; 09/20/2021; EX: UIR; AB-PANEL LAYOUT -- ATTACHED IMAGES: Dams County, 2020; DRAWING NAME: J:\RockGen\457746 - Construction Documentation\0000\457746.0000 - PL.dwg --- PLOT DATE: August 04, 2022 - 6:03AM --- LAYOUT: PANEL LAYOUT BLOW UP 1



ENLARGED VIEW 1 (COVER AREA 2)

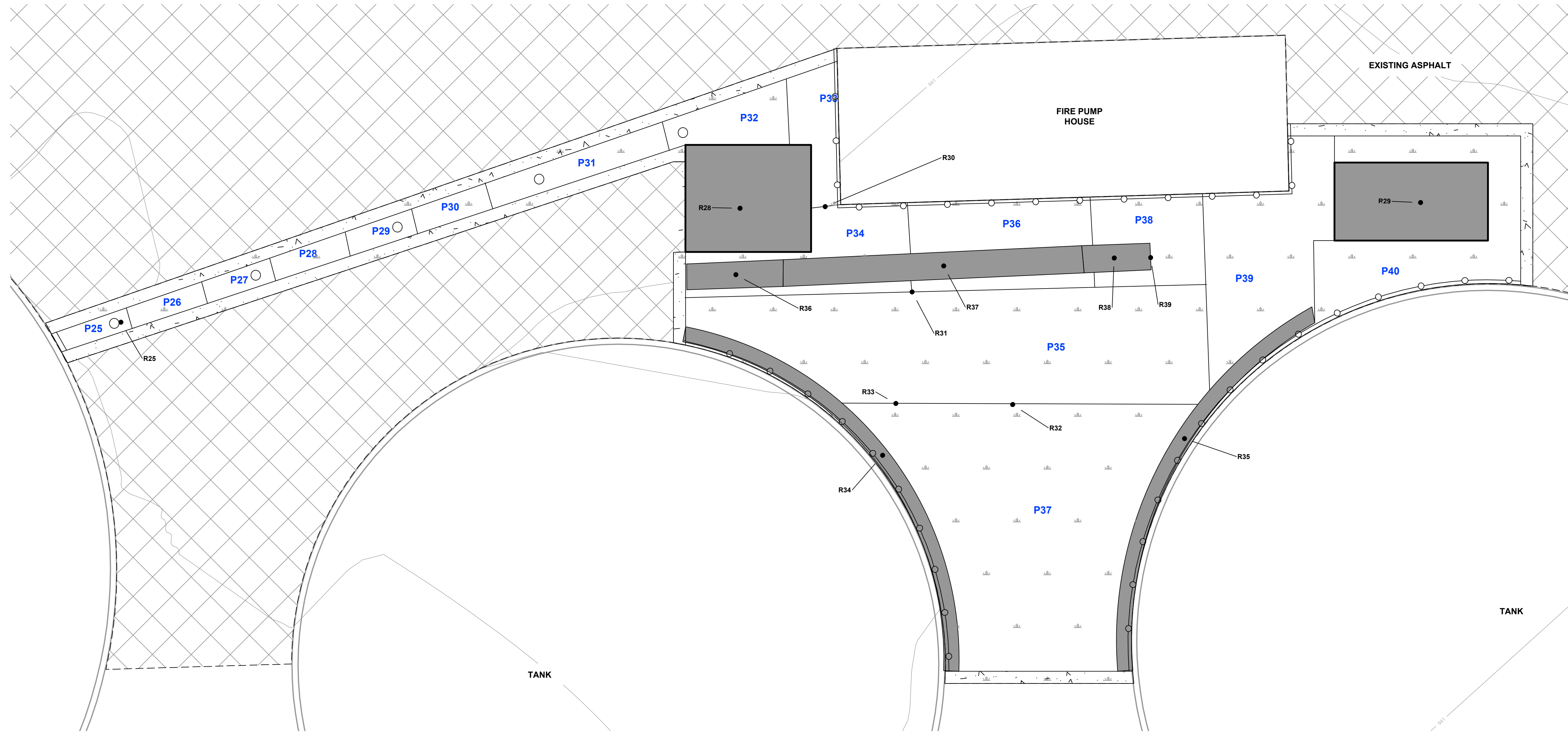


LEGEND

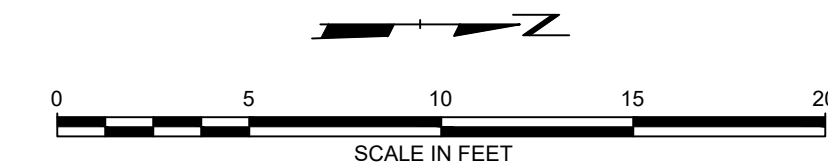
- P28 PANEL NUMBER (TOTAL OF 40 PANELS)
- DT-1 DESTRUCTIVE TEST LOCATION (TOTAL OF 2)
- CAP REPAIR
- PANEL SEAM
- R28 REPAIR LOCATION (TOTAL OF 39)
- CONCRETE ANCHOR TRENCH

NOTES

1. REFER TO GEOMEMBRANE INSTALLATION FORMS IN APPENDIX (TBD) OF THE REPORT FOR PANEL, REPAIR, DESTRUCTIVE TESTING, SEAMING, AND NON-DESTRUCTIVE TESTING INFORMATION.
2. THE GEOMEMBRANE PANEL LOCATIONS ARE APPROXIMATE AND WERE OBTAINED BY VISUAL AND TAPE MEASURE METHODS, GPS SURVEY DATA WAS NOT OBTAINED. THE PANEL DIMENSIONS SHOWN ON PLAN SHEET MAY NOT EXACTLY MATCH THE DATA LISTED WITHIN THE GEOMEMBRANE INSTALLATION FORMS (APPENDIX XX)
3. HYDROTURF® WAS INSTALLED AFTER GEOMEMBRANE INSTALLATION WAS COMPLETED.
4. GEOMEMBRANE WAS INSTALLED BY CLEAN AIR AND WATER SYSTEMS, LOCATED IN DOUSMAN, WI.



ENLARGED VIEW 2 (COVER AREA 3)



NOTE: THESE PLANS ARE ACCOMPANIED BY A DOCUMENTATION REPORT OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

PROJECT: **ROCKGEN ENERGY CENTER
PFAS SOIL INTERIM ACTIONS
CONSTRUCTION DOCUMENTATION
TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN**

TITLE: **GEOMEMBRANE PANEL LAYOUT ENLARGED VIEWS**

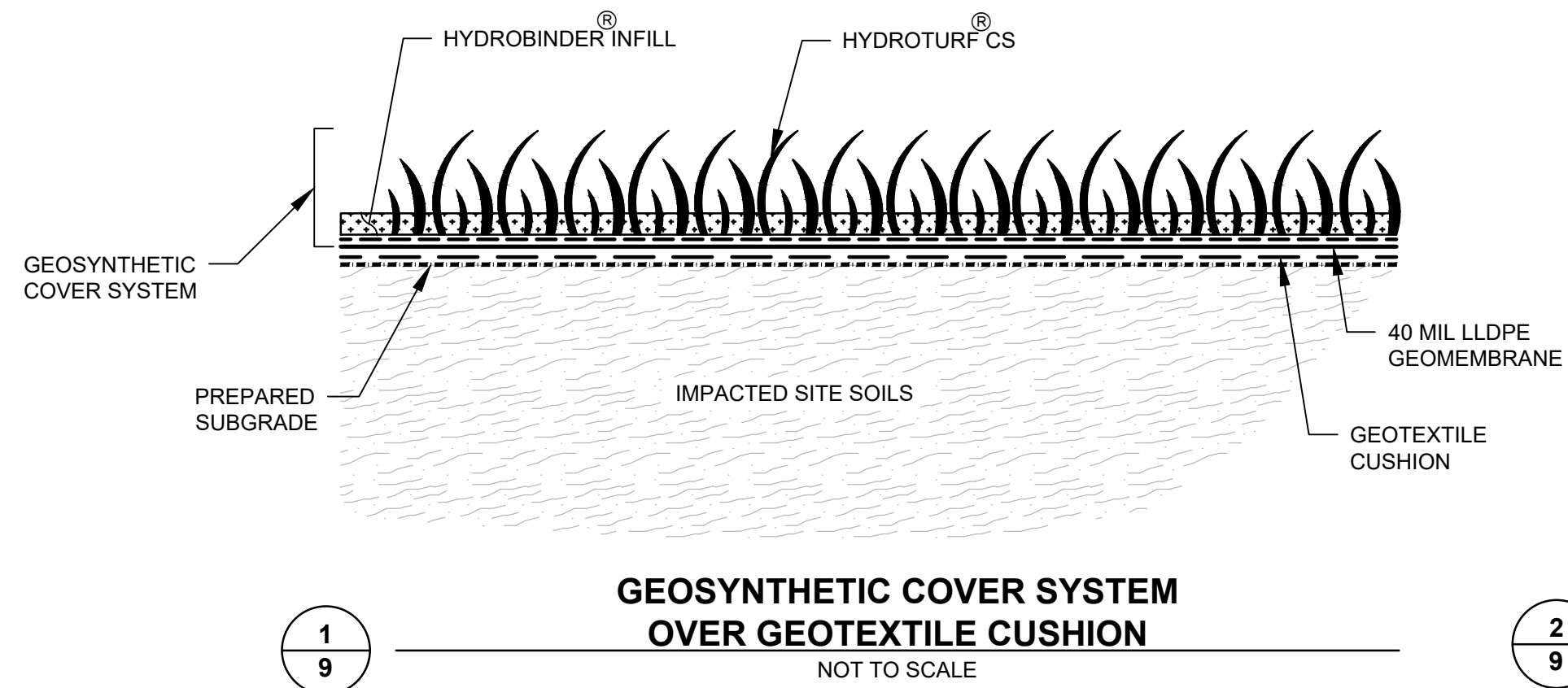
DRAWN BY: T. FIEBRANZ	PROJ. NO.: 457746.0000
CHECKED BY: E. CEFALU	SHEET 8 OF 9
APPROVED BY: J. RAMEY	
DATE: AUGUST 2022	



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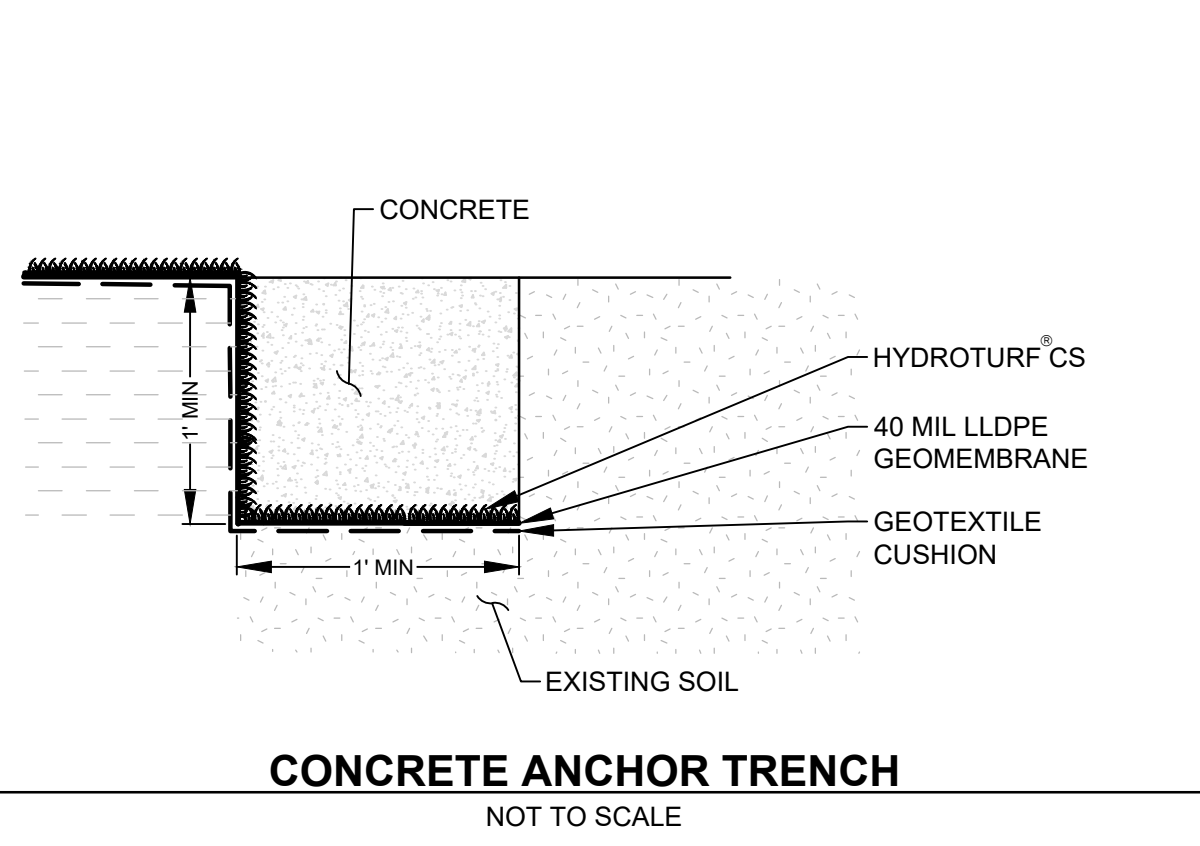
FILE NO.: 457746.0000 - PL.dwg

2/23/24 - USER: T:\tracem - ATTACHED XREFS: Details\Views: SEPTIC EXCAVATION\1 - ATTACHED IMAGES: DRAWING NAME: J:\RockGen\457746 - Construction Documentation\0000\457746.0000 - DT.dwg --- PLOT DATE: August 04, 2022 - 6:03AM --- LAYOUT: DETAILS



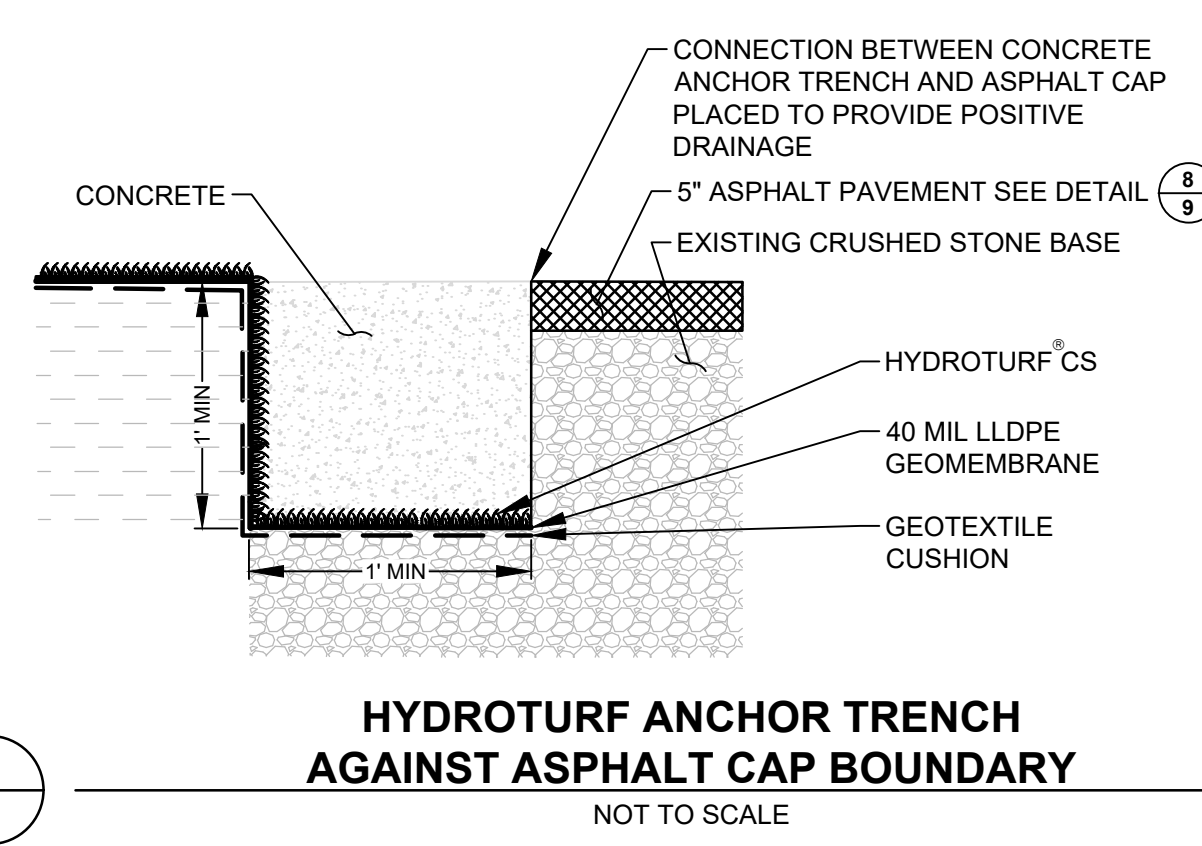
1
9

GEOSYNTHETIC COVER SYSTEM OVER GEOTEXTILE CUSHION
NOT TO SCALE



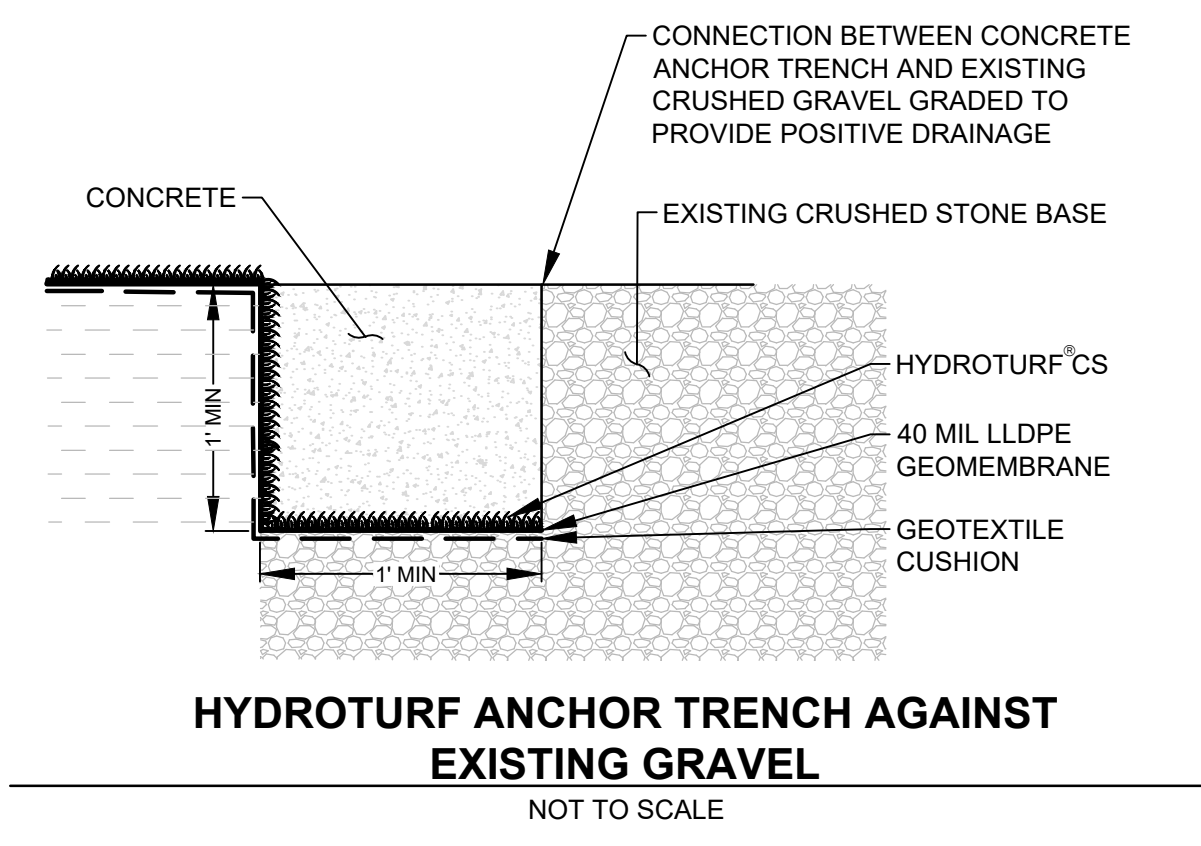
2
9

CONCRETE ANCHOR TRENCH
NOT TO SCALE



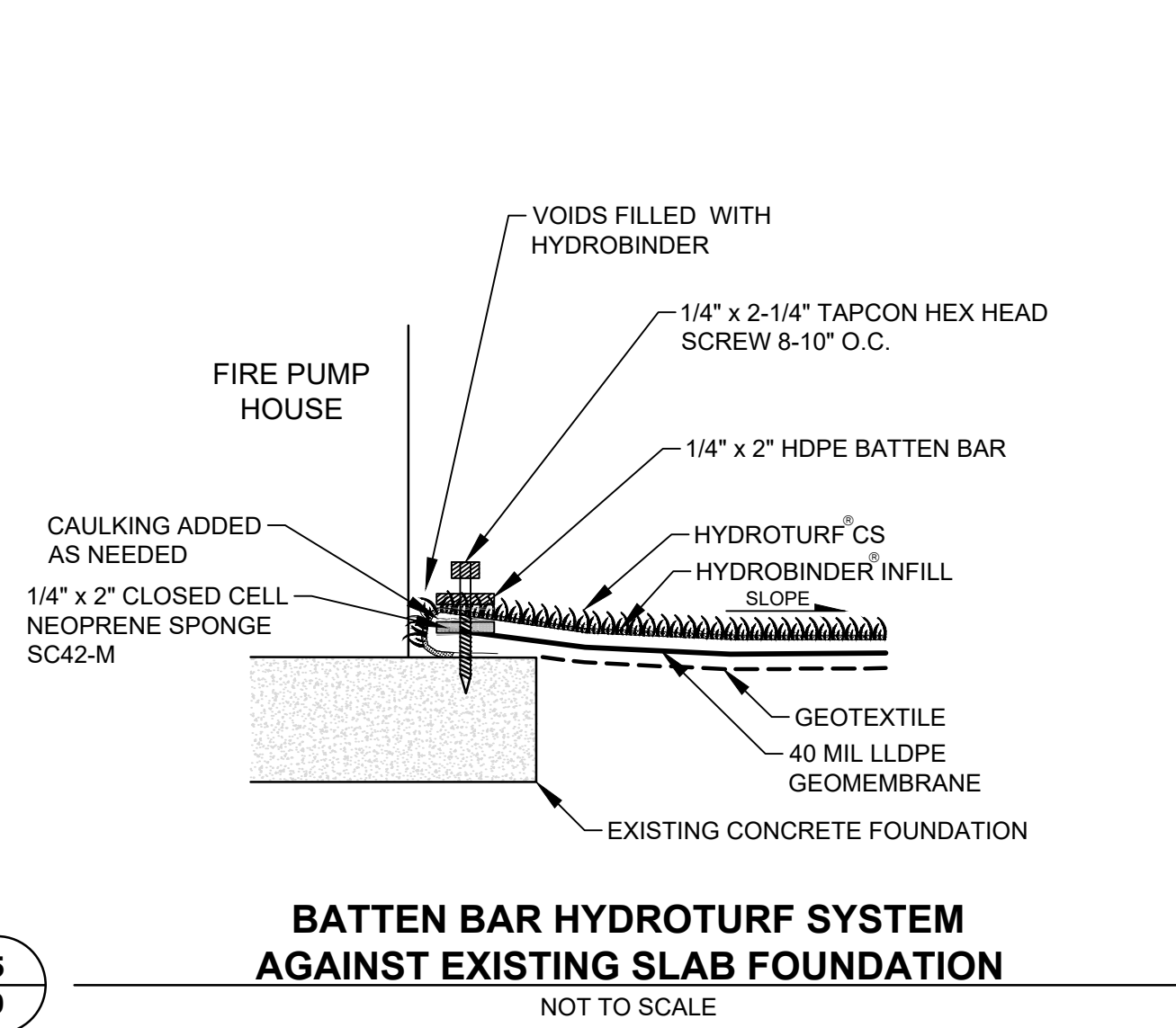
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9

HYDROTURF ANCHOR TRENCH AGAINST ASPHALT CAP BOUNDARY
NOT TO SCALE



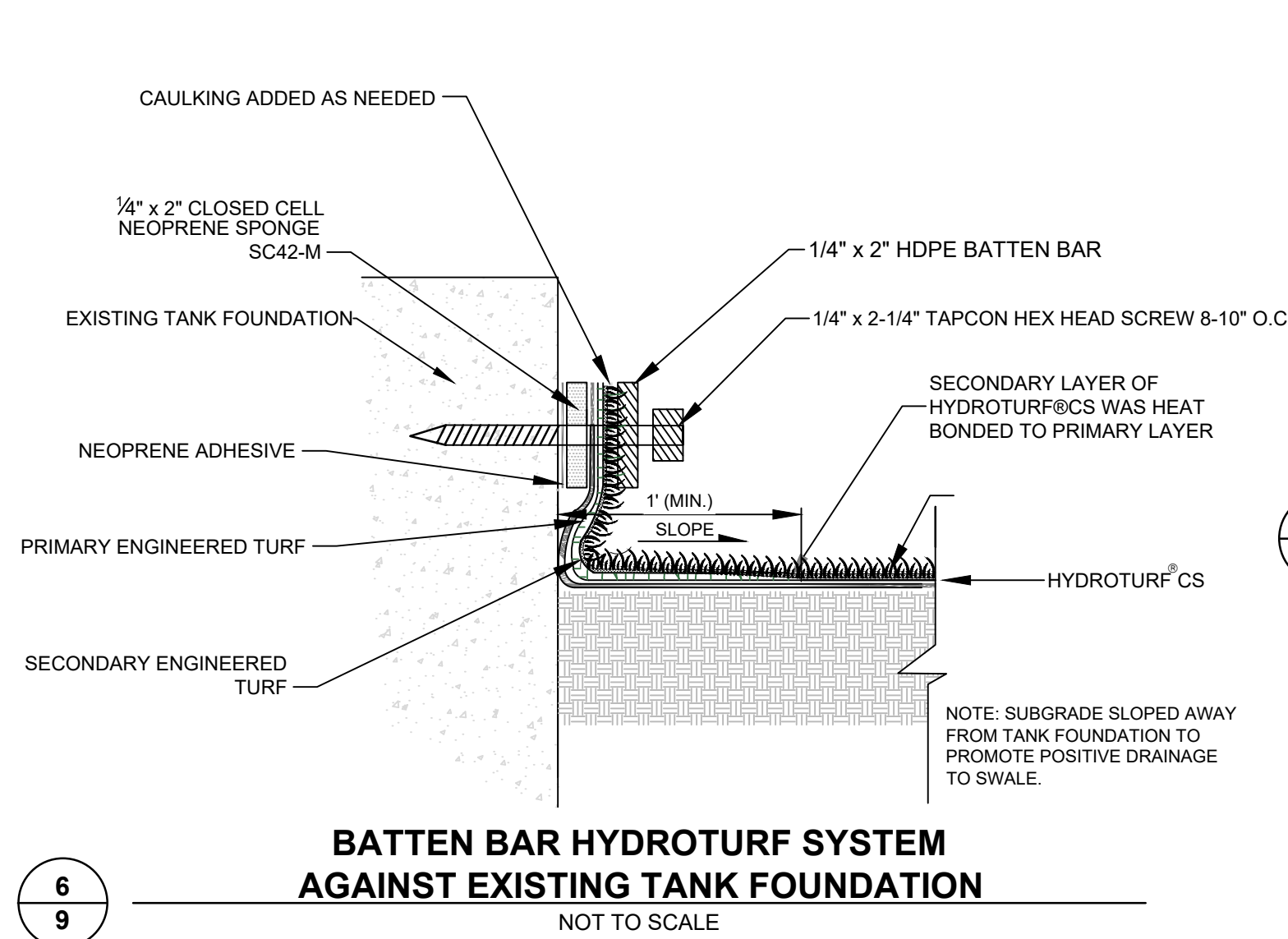
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HYDROTURF ANCHOR TRENCH AGAINST EXISTING GRAVEL
NOT TO SCALE



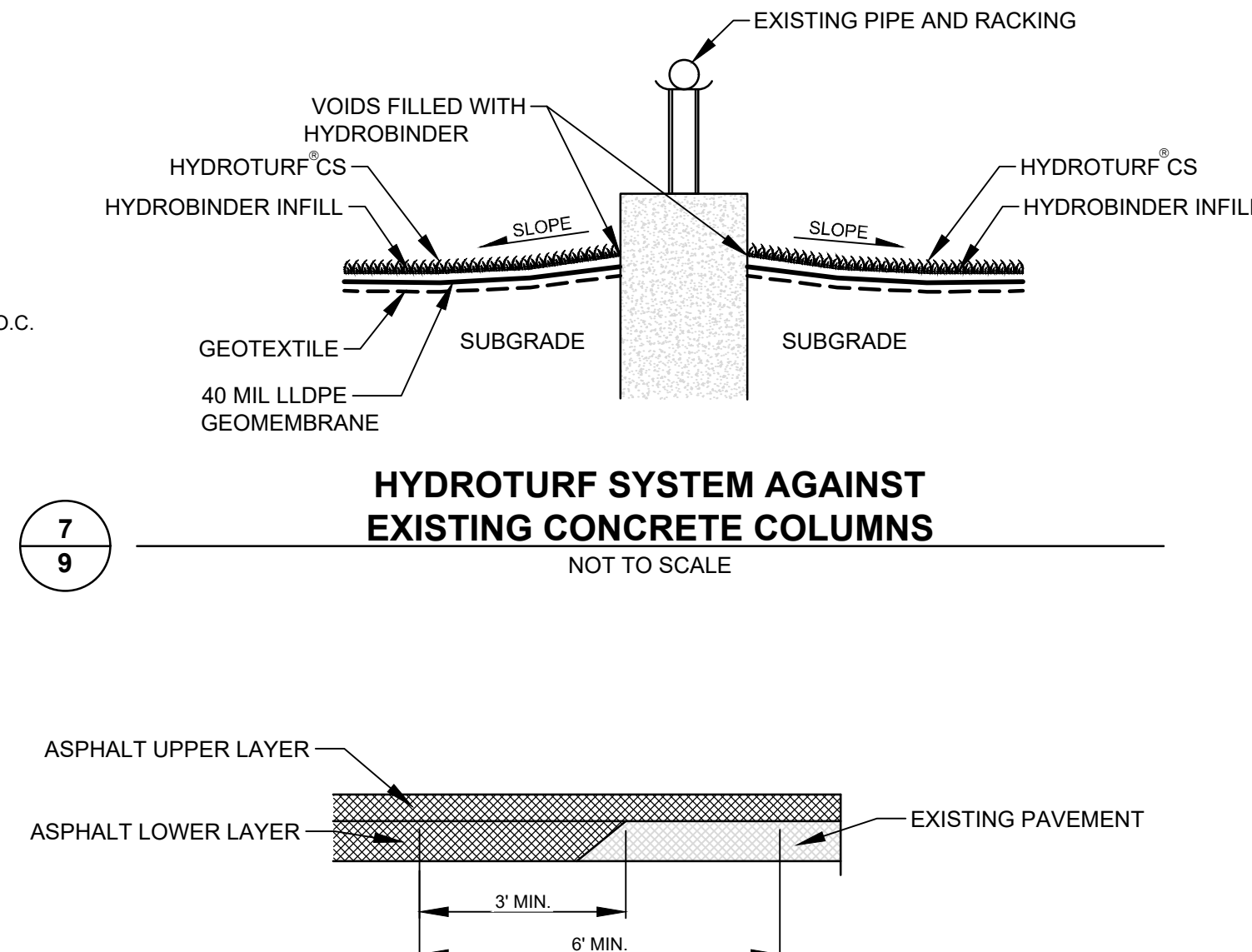
5
9

BATTEN BAR HYDROTURF SYSTEM AGAINST EXISTING SLAB FOUNDATION
NOT TO SCALE



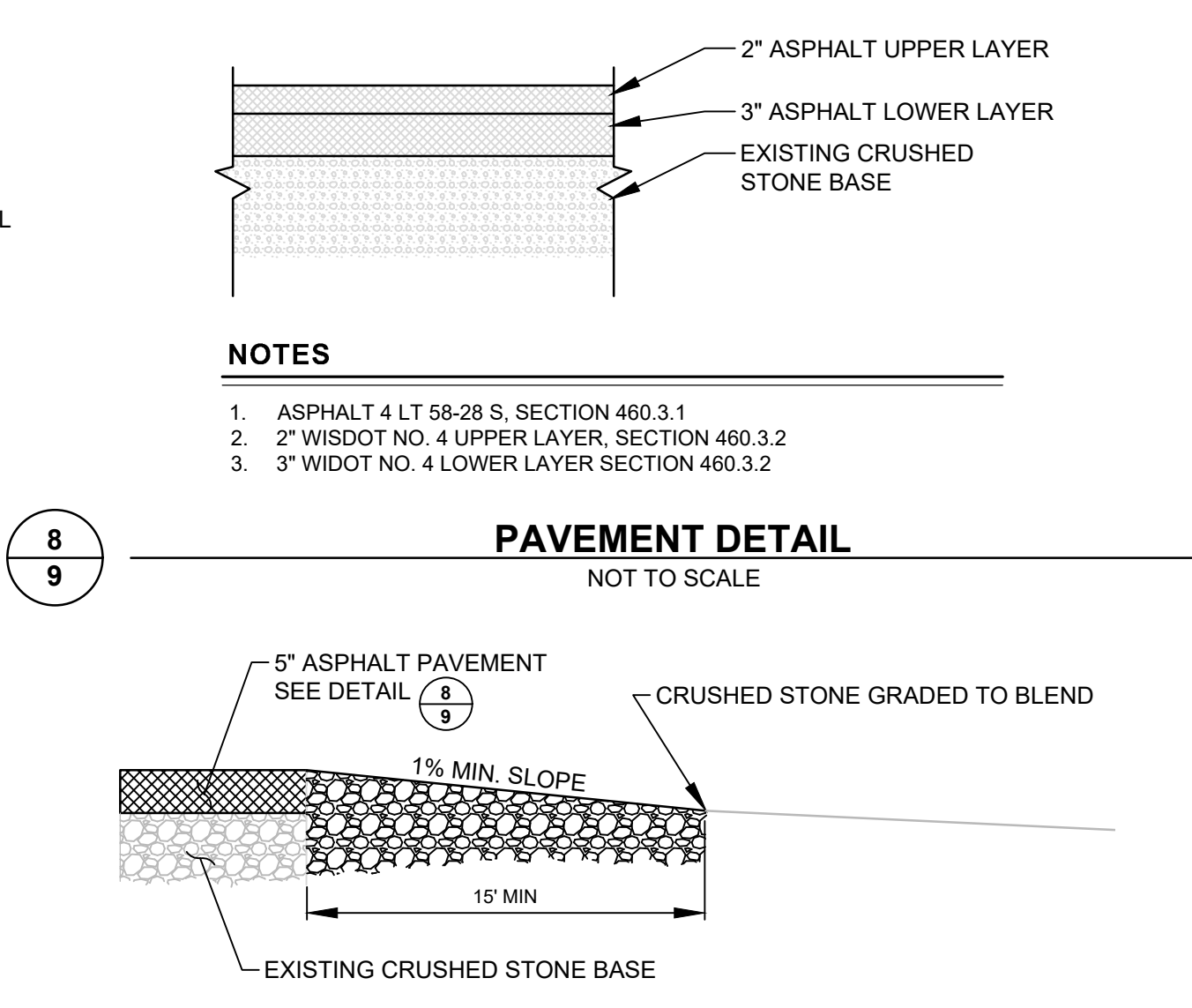
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9

BATTEN BAR HYDROTURF SYSTEM AGAINST EXISTING TANK FOUNDATION
NOT TO SCALE



7
9

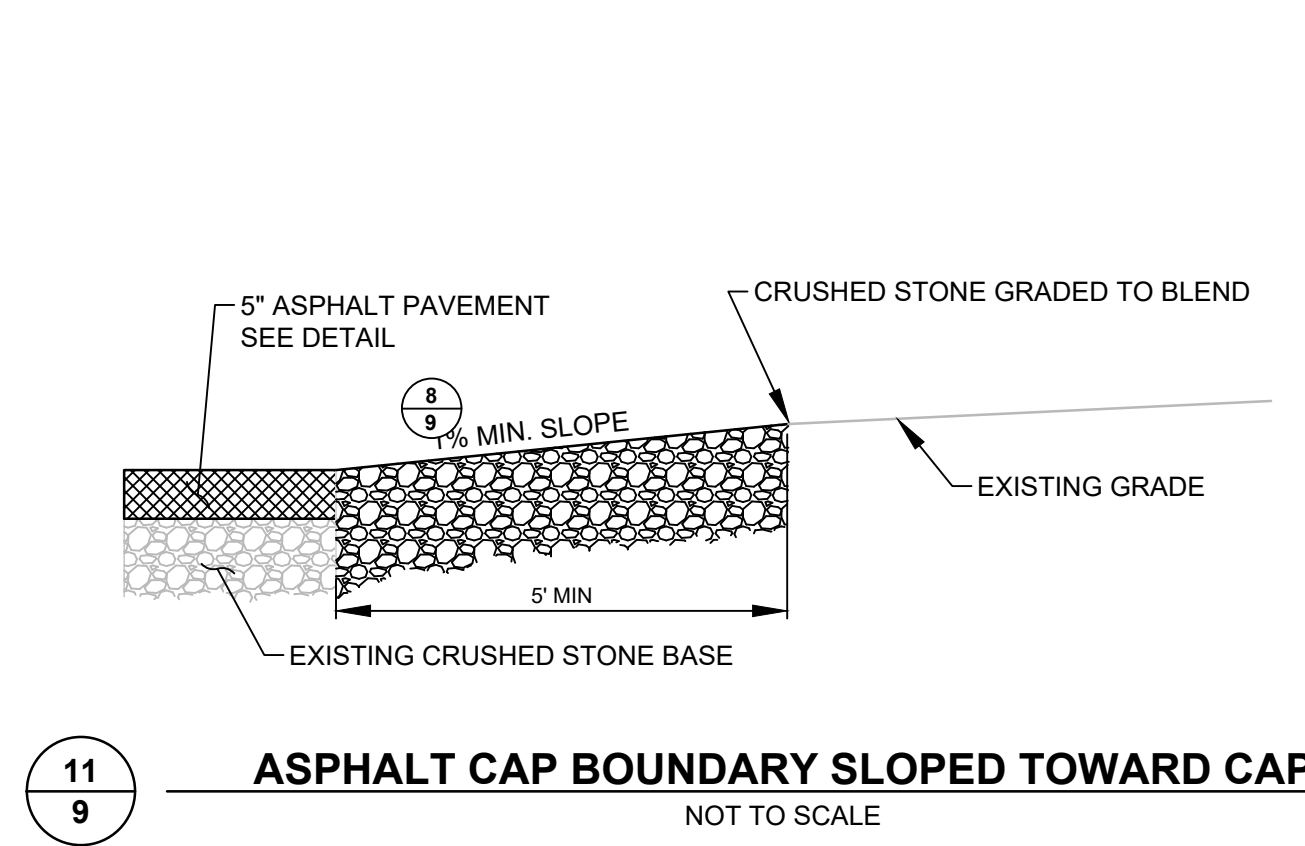
HYDROTURF SYSTEM AGAINST EXISTING CONCRETE COLUMNS
NOT TO SCALE



8
9

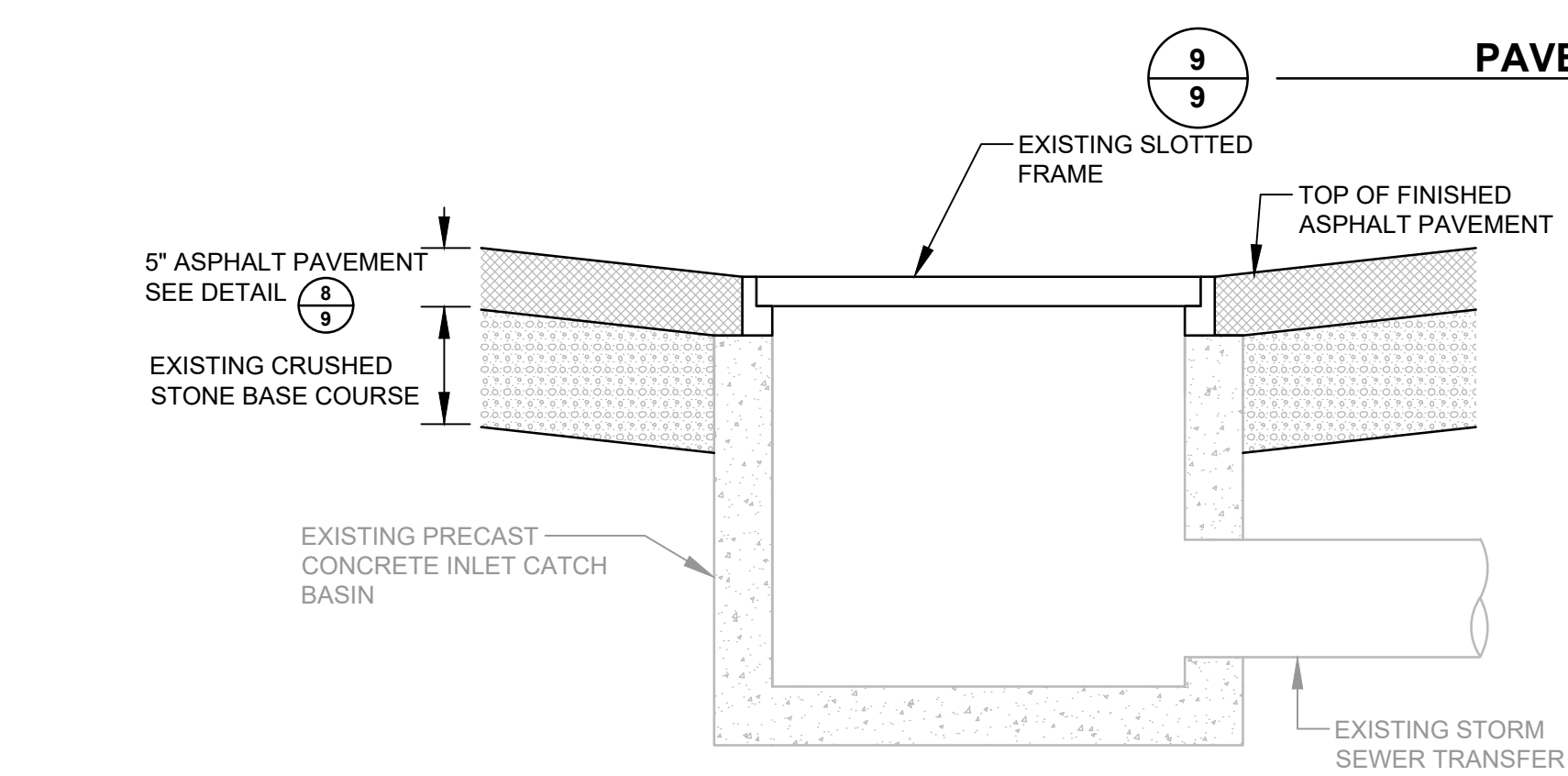
PAVEMENT DETAIL
NOT TO SCALE

- NOTES**
1. ASPHALT 4 LT 58-28 S, SECTION 460.3.1
 2. 2" WISDOT NO. 4 UPPER LAYER, SECTION 460.3.2
 3. 3" WISDOT NO. 4 LOWER LAYER SECTION 460.3.2



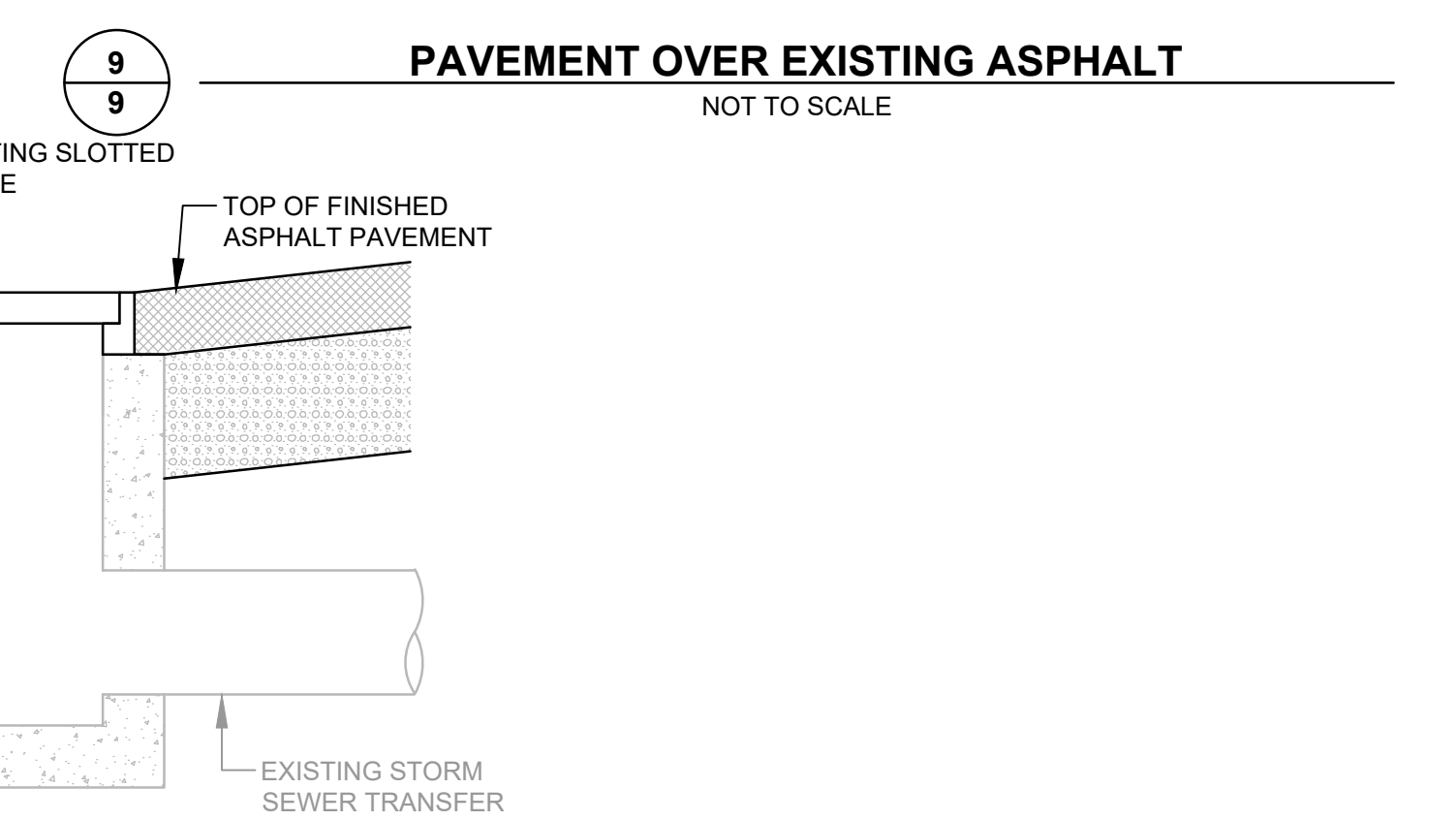
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9

ASPHALT CAP BOUNDARY SLOPED TOWARD CAP
NOT TO SCALE



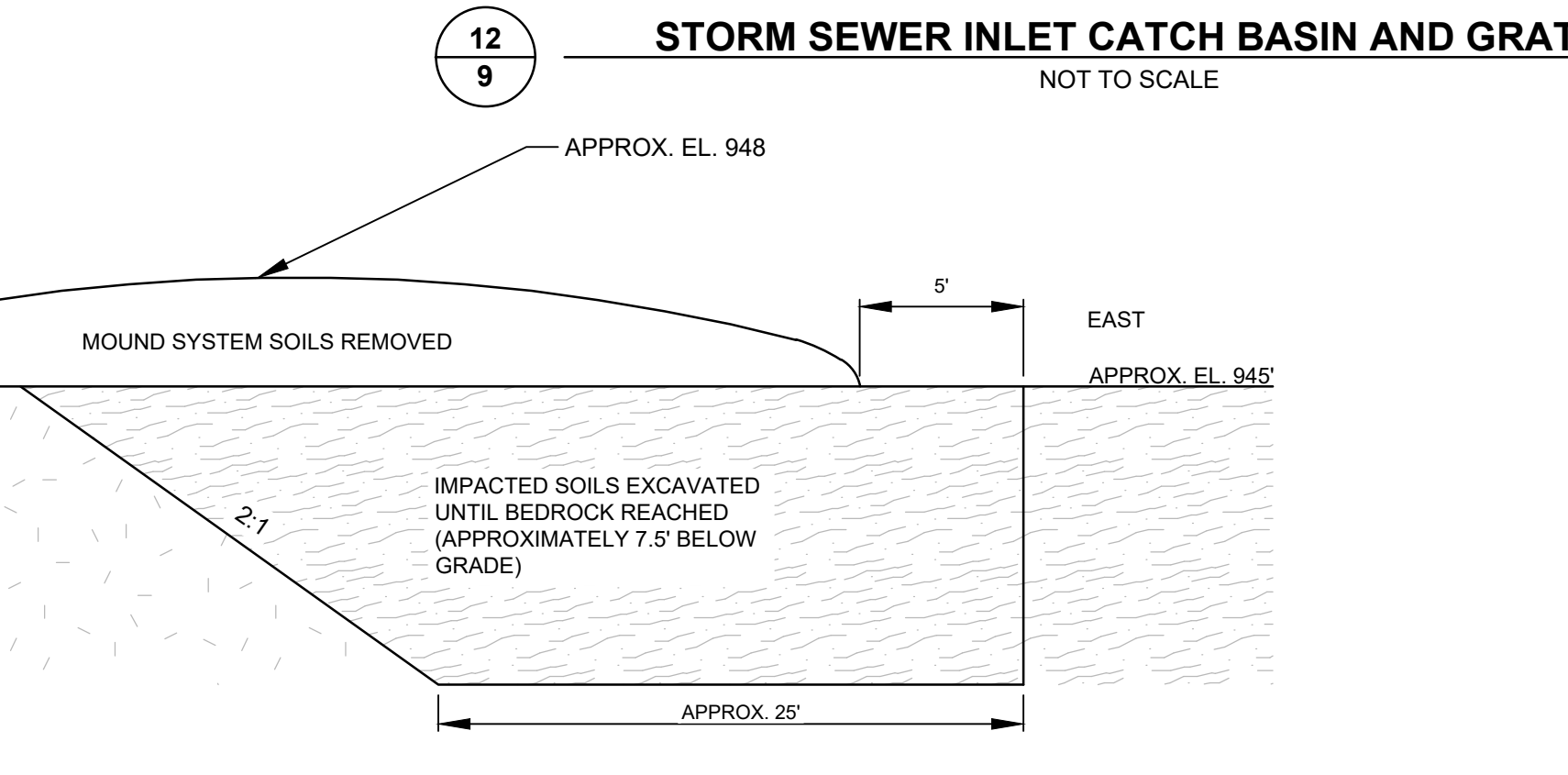
10
9

ASPHALT CAP BOUNDARY SLOPED AWAY FROM CAP
NOT TO SCALE



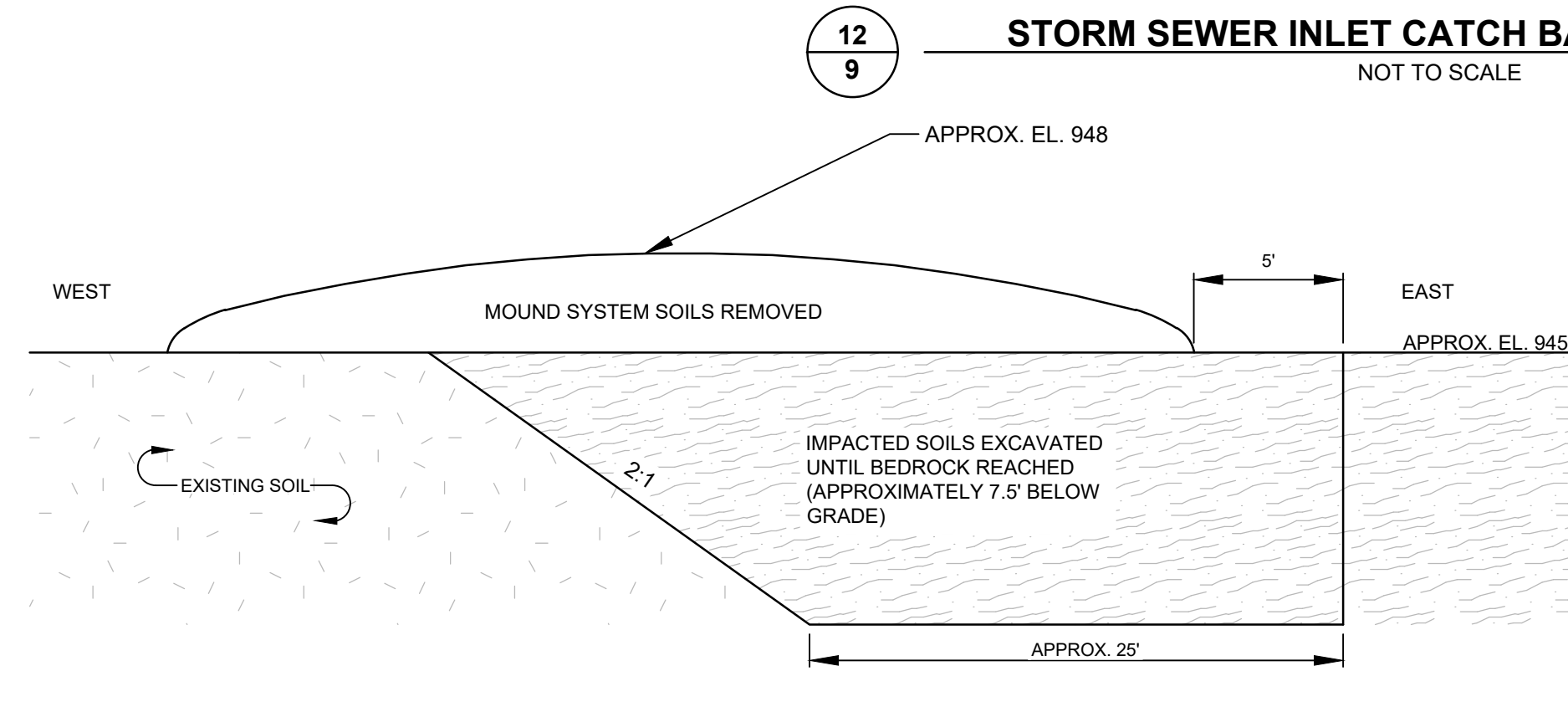
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9

PAVEMENT OVER EXISTING ASPHALT
NOT TO SCALE



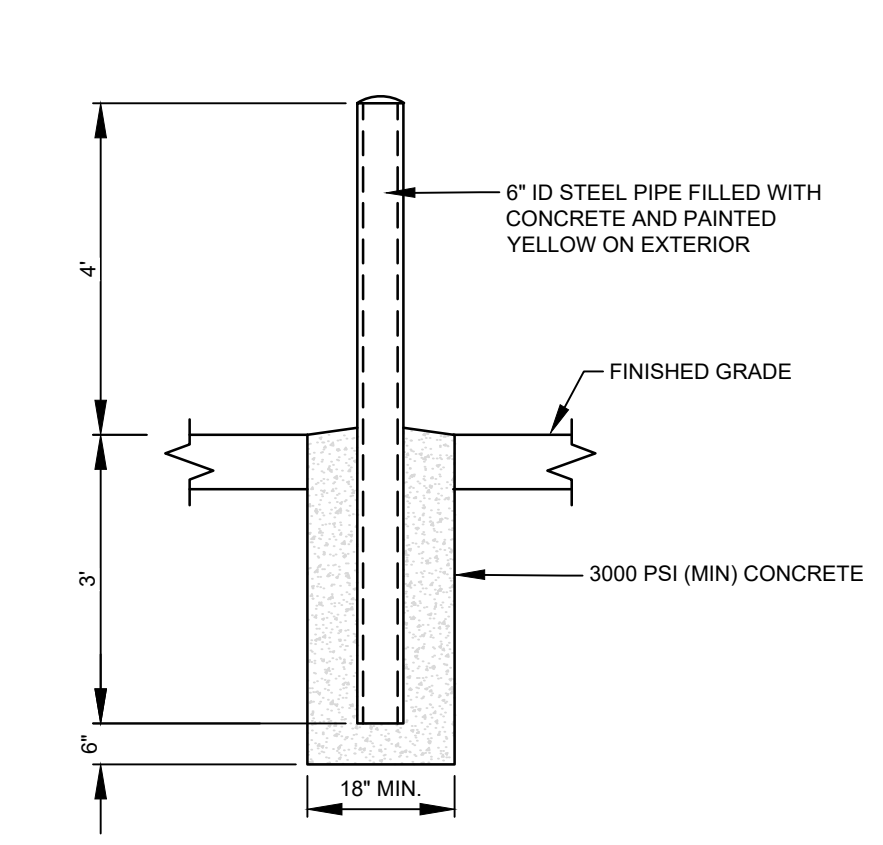
12
9

STORM SEWER INLET CATCH BASIN AND GRATE
NOT TO SCALE



13
9

SEPTIC MOUND SYSTEM EXCAVATION PROFILE - SECTION A-A
NOT TO SCALE



14
9

BOLLARD (TYP.)
NOT TO SCALE

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PROJECT:	ROCKGEN ENERGY CENTER PFAS SOIL INTERIM ACTIONS CONSTRUCTION DOCUMENTATION TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN		
TITLE:	DETAILS		
DRAWN BY:	T. FIEBRANZ	PROJ. NO.:	457746.0000
CHECKED BY:	E. CEFALU	SHEET 9 OF 9	
APPROVED BY:	J. RAMEY		
DATE:	AUGUST 2022		



TRC 6737 W. Washington Street
Suite 2100
West Allis, WI 53214
Phone: 262.878.1212

FILE NO.: 457746.0000 - DT.dwg



Asphalt Paving Photographic Log

Client Name: Rock Gen Energy Center, LLC		Site Location: Cambridge, WI	Project No.: 457746.0000.0000
Photo No.: 1	Date: 5/9/2022		
Description: Finished asphalt pavement surface facing north.			
Photo No.: 2	Date: 5/9/2022		
Description: Finished asphalt pavement surface.			

Asphalt Paving Photographic Log

Client Name: Rock Gen Energy Center, LLC		Site Location: Cambridge, WI	Project No.: 457746.0000.0000
Photo No.: 3	Date: 5/9/2022		
Description: Finished asphalt pavement surface.			
Photo No.: 4	Date: 5/9/2022		
Description: Five inch asphalt cap.			

Geosynthetics Photographic Log

Client Name:		Site Location:	Project No.:
RockGen Energy Center, LLC		Cambridge, WI	457746.0000.0000
Photo No.: 5	Date: 5/25/2022		
Description: Batten bar securement installed on the geosynthetic cover within Cover Area 3.			
Photo No.: 6	Date: 5/26/2022		
Description: Installation of Hydrobinder within Cover Area 2.			

Geosynthetics Photographic Log

Client Name:		Site Location:	Project No.:
RockGen Energy Center, LLC		Cambridge, WI	457746.0000.0000
Photo No.:	Date:		
7	5/27/2022		
Description:			
Installation of Hydrobinder within Cover Area 1.			
Photo No.:	Date:		
8	5/27/2022		
Description:			
Installation of Hydrobinder within Cover Area 3.			

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	BRRTS No.
----------------------	-----------

Inspections are required to be conducted (see closure approval letter): <input type="radio"/> annually <input type="radio"/> semi-annually <input type="radio"/> 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

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

Page 2 of 2

BRRTS No. _____

Activity (Site) Name _____

{Click to Add/Edit Image}

Date added:

Title:

{Click to Add/Edit Image}

Date added:

Title: