

DITCH B INTERIM ACTION DESIGN

NORTHLAND LUTHERAN PROPERTY

813 PINE BEACH RD., CITY OF MARINETTE, MARINETTE CO., WISCONSIN



LOCATION MAP
0 2000 4000
GRAPHIC SCALE



APRIL 01, 2019
ISSUED FOR WPDES PERMIT
NOT FOR CONSTRUCTION

ANSUL FTC SITE
MARINETTE, WISCONSIN

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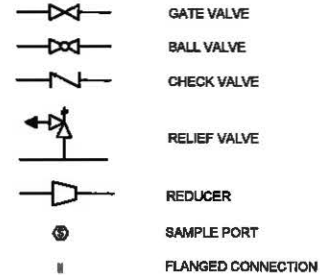
KEY CONTACTS

PROPERTY OWNER: NORTHLAND LUTHERAN 813 PINE BEACH RD. MARINETTE, WI 54143 CONTACT: DARRELL LANCOUR	PROJECT OWNER: TYCO FIRE PRODUCTS, LP 1 STATON STREET MARINETTE, WI 54143 CONTACT: ERIC BRETL
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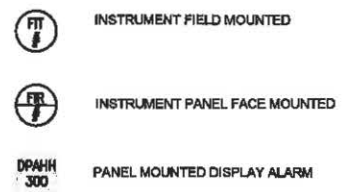
DESIGN ENGINEER:
ARCADIS U.S., INC.
126 N. JEFFERSON STREET, SUITE 400
MILWAUKEE, WI 53202
CONTACT: BEN VERBURG

CITY: MILWAUKEE, WI DIV/GROUP: ENV/CAO DB: E. EBERT LD: E. EBERT PIC: J. BENNETT PM: B. VERBURG TM: B. VERBURG LYRON-REF-REF
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VALVE SYMBOLS



INSTRUMENTATION SYMBOLS



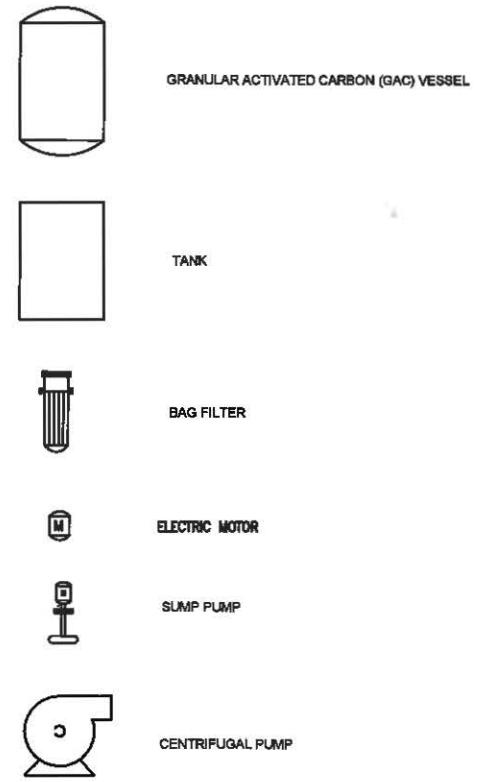
ABBREVIATIONS

&	AND
@	AT
1PH	SINGLE-PHASE
1P	SINGLE-POLE
2/C	TWO-CONDUCTOR
3/C	THREE-CONDUCTOR
3PH	THREE-PHASE
3PLY	THREE-PLY
3W	THREE-WIRE
4/C	FOUR-CONDUCTOR
4OUT	QUADRUPLE RECEPTACLE OUTLET
4PDT	FOUR-POLE DOUBLE THROW
4PBT	FOUR-POLE SINGLE THROW
4W	FOUR-WIRE
CS	CARBON STEEL
CPVC	CHLORINATED POLYVINYLCHLORIDE
DGR	DIRECTED GROUNDWATER RECIRCULATION
EQ	EQUALIZATION
EX	EXTRACTION
GAC	GRANULAR ACTIVATED CARBON
GAL	GALLONS
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
ID	INSIDE DIAMETER
INJ	INJECTION
IW	INJECTION WELL
MIN	MINIMUM
MAX	MAXIMUM
MCE	MODULAR CONTROL EQUIPMENT
MCP	MAIN CONTROL PANEL
MW	MONITORING WELL
NO	NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PB	PANEL BOARD
PVC	POLYVINYLCHLORIDE
SCH	SCHEDULE
SDR	SIZE DIAMETER RATIO
SST	STAINLESS STEEL
TYP	TYPICAL
VAC	VOLTS ALTERNATING CURRENT

NOTES:

- CONTRACTOR SHALL CLEAR TREES AS NECESSARY AND CUT STUMPS FLUSH WITH GRADE.
- ALL ELECTRICAL WORK SHALL MEET ALL FEDERAL AND LOCAL CODES.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL UTILITIES, STRUCTURES, AND EASEMENTS PRESENT ON AND AROUND THE SITE. ANY DAMAGE TO THESE UTILITIES DUE TO WORK PERFORMED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL RESTORE SITE TO THE EXISTING CONDITIONS UPON COMPLETION OF THE WORK.
- CONTRACTOR SHALL SEED AND STRAW ONCE THE WORK IS COMPLETED IN ACCORDANCE WITH THE WDNR STORM WATER BEST PRACTICES.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE WORK AND PERSONNEL DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITIES FOR RECOMMENDED RELOCATION, PROTECTION, AND CONTROLS.
- CONTRACTOR SHALL MAINTAIN BENDING RADII GREATER THAN THE DEFLECTION ANGLES LESS THAN THE HDPE MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF HORIZONTAL OR VERTICAL CURVES.
- SIGNS, MARKERS, AND FLAGS SHALL BE INSTALLED BY THE CONTRACTOR FOR ALL UNDERGROUND UTILITIES.
- UTILITY LOCATION WORK SHALL BE PERFORMED BY THE CONTRACTOR.
- MAINTAIN THE SITE DRAINAGE SUCH THAT ALL SURFACE WATER WITHIN EARTH DISTURBING LIMITS IS DIVERTED THROUGH EROSION AND SEDIMENT CONTROL MEASURES.

EQUIPMENT SYMBOLS

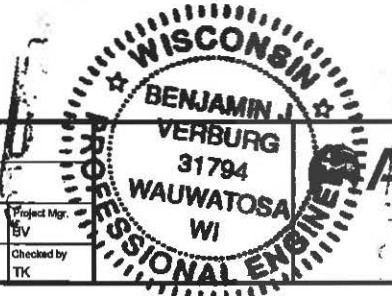


INSTRUMENTATION IDENTIFICATION LEGEND

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER FLAME		NOT USED	NOT USED	NOT USED
C	CONDUCTIVITY (ELECTRICAL)			CONTROL	CLOSED
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL			
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO (FRACTION)			
G	INTRUSION		GLASS GAGE (UNCALIBRATED)		
H	HAND (MANUALLY INITIATED)				HIGH
I	CONDUCTIVITY (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOISTURE OR HUMIDITY				MIDDLE OR INTER-MEDIATE
N	SEQUENCE STRATEGY		NOT USED	NOT USED	NOT USED
O	NOT USED		ORIFICE (RESTRICTION)		OPEN
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)	PULSE	
Q	QUANTITY	INTEGRATE OR TOTALIZE			
R	RADIOACTIVITY		RECORD OR PRINT		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION			VALVE DAMPER OR LOUVER	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT STATUS	Y AXIS		RELAY OR COMPUTE	
Z	POSITION			DRIVE ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

CODES/STANDARDS:

AI	ASPHALT INSTITUTE
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION STANDARD
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
ISA	INTERNATIONAL SOCIETY OF AUTOMATION
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
UL	UNDERWRITERS LABORATORY



ARCADIS U.S., INC.

ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH
DITCH B INTERIM ACTION DESIGN

ABBREVIATIONS AND GENERAL NOTES

ARCADIS Project No. W001605.0001
Date APRIL 2019
ARCADIS U.S., INC. 128 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202

G2

SCALE(S) AS INDICATED

No.	Date	Revisions	By	Ckd
3	04/01/19	ISSUED FOR WPDES PERMIT	EE	TK
2	01/29/19	ISSUED FOR PLANNING PERMIT	EE	TK
1	12/19/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

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Professional Engineer's Name BEN VERBURG	
Professional Engineer's No. 31794-006	
State WI	Date Signed 04/01/19
Project Mgr. BV	Checked by TK
Designed by BV	Drawn by EE

CITY: MILWAUKEE, WI DIV/GROUP: EN/CAD DB: E EBERT LD: E EBERT PIC: J BENNETT PM: B VERBURG TM: B VERBURG TR: B VERBURG T: B VERBURG U: B VERBURG V: B VERBURG W: B VERBURG X: B VERBURG Y: B VERBURG Z: B VERBURG
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2	01/28/19	ISSUED FOR PLANNING PERMIT	EE	TK
1	12/18/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

Professional Engineer's Name BEN VERBURG			
Professional Engineer's No. 31794-008			
State WI	Date Signed 04/01/19	Project Mgr. BV	
Designed by BV	Drawn by EE	Checked by TK	



ARCADIS
Design & Consultancy
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ARCADIS U.S., INC.

ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH
DITCH B INTERIM ACTION DESIGN

SITE PLAN

ARCADIS Project No.
W001605.0001
Date
APRIL 2019
ARCADIS U.S., INC.
128 N. JEFFERSON ST.
SUITE 400
MILWAUKEE, WI 53202

C2

CITY: MILWAUKEE, WI DRAWING: EN/CAD DR. E. EBERT LD. E. EBERT PIC. J. BENNETT PM. B. VERBURG TM. B. VERBURG LYRON-M-OFF-REF
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- NOTES:**
1. PROVIDE AT LEAST 5 FT CLEARANCE BETWEEN THE TREATMENT SYSTEM AND THE FENCE.
 2. CONTRACTOR SHALL ADD PLANTERS AROUND TREATMENT SYSTEM EXTENTS PER ENGINEER'S DIRECTION.
 3. AERIAL IMAGE, DITCH EXTENTS, AND EQUIPMENT ASSOCIATED WITH THE TREATMENT SYSTEM ARE IN APPROXIMATE LOCATIONS.
 4. CONTRACTOR SHALL PROVIDE RIP-RAP AT THE POINT OF DISCHARGE INTO THE DITCH.
 5. CONTRACTOR SHALL BURY PIPES AS SHOWN ON DETAIL 1 ON SHEET C6.
 6. CONTRACTOR SHALL INSTALL DETECTIBLE TAPE ABOVE PIPE AS SHOWN ON DETAIL 2 ON SHEET C6.
 7. CONTRACTOR SHALL PLACE FLAGS OR SIGNS INDICATING BURIED PIPE AND CONDUIT ALONG TRENCH.
 8. CONTRACTOR SHALL SEED AND STRAW ACCORDING TO THE WDNR STORMWATER BEST MANAGEMENT PRACTICES. ANNUAL RYEGRASS, OR EQUAL, SHALL BE USED.
 9. CONTRACTOR SHALL PROVIDE EROSION CONTROL PER THE WDNR STORMWATER BEST MANAGEMENT PRACTICES WITHIN THE LIMIT OF WORK.

LEGEND:

	FENCE
	CONDUIT
	LIMIT OF WORK AREA
	IN STREAM STRUCTURE
	GRAVEL PAD AND LANDSCAPING
	EROSION CONTROL
	EXISTING WETLAND
	CLEARING AND GRUBBING
	LANDSCAPING

CONTROL POINT COORDINATES:

CP1	45°4'28.55" N 87°36'56.37" W	CP11	45°4'27.16" N 87°36'55.88" W
CP2	45°4'28.55" N 87°36'56.16" W	CP12	45°4'27.77" N 87°36'55.90" W
CP3	45°4'28.55" N 87°36'55.42" W	CP13	45°4'27.50" N 87°36'55.35" W
CP4	45°4'27.96" N 87°36'55.42" W	CP14	45°4'27.44" N 87°36'55.29" W
CP5	45°4'27.96" N 87°36'56.16" W	CP15	45°4'27.37" N 87°36'55.40" W
CP6	45°4'28.37" N 87°36'56.16" W	CP16	45°4'27.44" N 87°36'55.46" W
CP7	45°4'27.96" N 87°36'56.37" W	CP17	45°4'27.32" N 87°36'55.16" W
CP8	45°4'27.20" N 87°36'55.82" W	CP18	45°4'27.28" N 87°36'55.11" W
CP9	45°4'27.16" N 87°36'55.78" W	CP19	45°4'27.26" N 87°36'55.27" W
CP10	45°4'27.13" N 87°36'55.83" W	CP20	45°4'27.22" N 87°36'55.22" W

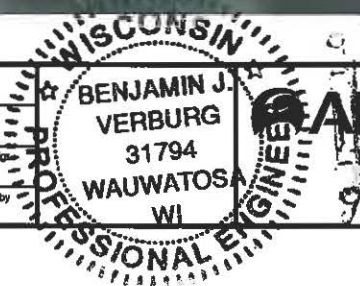
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1	12/19/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

Professional Engineer's Name
BEN VERBURG
 Professional Engineer's No.
 31794-008

State: WI Date Signed: 04/01/19
 Project Manager: BV
 Checked by: TK

Designed by: BV
 Drawn by: EE



ARCADIS Design & Consultancy for natural and built assets

ARCADIS U.S., INC.

ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH
 DITCH B INTERIM ACTION DESIGN

DITCH B SITE PLAN

ARCADIS Project No. W001605.0001	C3
Date APRIL 2019	
ARCADIS U.S., INC. 126 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202	

CITY: MILWAUKEE, WI DIV/GROUP: EN/ICAD, DB: E. EBERT, PIC: J. BENNETT, PM: B. VERBURG, TM: B. VERBURG, LYRON+OFF-REF
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- NOTES:**
1. AERIAL IMAGE, DITCH EXTENTS, AND EQUIPMENT ASSOCIATED WITH THE TREATMENT SYSTEM ARE IN APPROXIMATE LOCATIONS.
 2. LOCATIONS OF UTILITIES ARE APPROXIMATE.
 3. SANITARY MANHOLE RIM/INVERT ELEVATIONS ARE 109.92' AND 105.24'.
 4. WATER MAIN TAP NEAR HYDRANT 446.
 5. NATURAL GAS SERVICE EXTENSION TO BE PROVIDED BY UTILITY COMPANY.

- LEGEND:**
- IN STREAM STRUCTURE
 - EXISTING WETLAND

SCALE(S) AS INDICATED



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Professional Engineer's Name BEN VERBURG	
Professional Engineer's No. 31794-008	
State WI	Date Signed 04/01/19
Designed by BV	Drawn by EE
Checked by TK	Project Mgr. EE



ARCADIS U.S., INC.

ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH
DITCH B INTERIM ACTION DESIGN

UTILITY PLAN

ARCADIS Project No. W001605.0001
Date APRIL 2019
ARCADIS U.S., INC. 128 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202

C4

CITY: MILWAUKEE, WI DIV: GROUP: ENV/CAD, DB: E. EBERT, LD: E. EBERT, PIC: J. BENNETT, PM: B. VERBURG, TM: B. VERBURG, LYRON: OFF-REF
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Ansul FTC Site - DRAFT Landscape Planting Schedule						
Key	Botanical Name	Common Name	Mature Height (ft)	Container Size (gal)	Size	Spacing (ft)
TREE Species						
AC	<i>Abies concolor</i>	White Fir	70	-	6-8	15
SHRUB Species						
CSA	<i>Cornus sericea</i> 'Arctic Fire'	Dwarf Red Twig Dogwood	3.0-4.0	#3		3.0
GRASS Species						
CAK	<i>Calamagrostis acutiflora</i> 'Karl Foerster'	Kark Foresters Feather Grass	3.0-5.0	#1	-	1.5
PAH	<i>Pennisetum alopecuroides</i> 'Hameln'	Fountain Grass	1.5-2.5	#1	-	2.0
LMB	<i>Liriope muscari</i> 'Big Blue'	Lily Turf	1.0-1.5	#1		1.5
HERBACEOUS Species						
EPM	<i>Echinacea purpurea</i> 'Magnus'	Eastern Purple Coneflower	2.0-5.0	#1	-	1.5
PT	<i>Perovskia atriplicifolia</i>	Russian Sage	3.0-5.0	#1	-	3.0
SNP	<i>Symphotrichum novae-angliae</i> 'Purple Dome'	New England Aster	1.5-2.0	#1	-	2.0

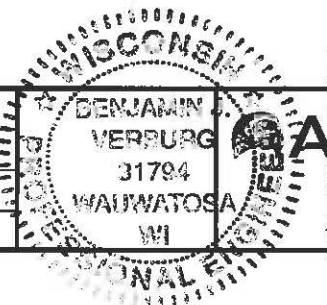
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Professional Engineer's Name
BEN VERBURG
Professional Engineer's No.
31794-006
State
WI
Date Signed
04/01/19
Project Mgr.
BV
Designed by
BV
Drawn by
EE
Checked by
TK



ARCADIS

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for natural and
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LANDSCAPING PLAN

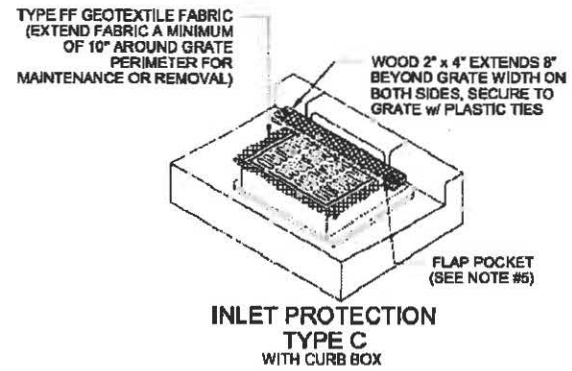
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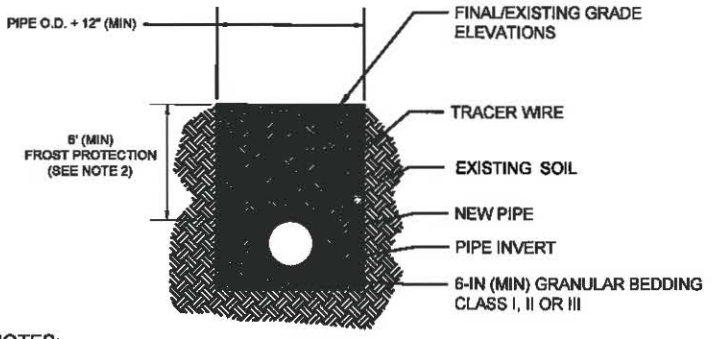
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 ACADVER: 21.08 (LMS TECH) PAGESETUP: PLOTTED: 4/12/2019 8:59 AM BY: EBBERT, JZ
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SEDIMENT AND EROSION CONTROL GENERAL NOTES:

1. BEST MANAGEMENT PRACTICES (BMPs) SHALL BE INSTALLED PER THE PLAN AND SPECIFICATIONS, AND APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
2. ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS AND PLANT ACCESS DRIVES. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.
3. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
4. IF THE CONTROL DEVICE BECOMES INEFFECTIVE DUE TO WEATHERING, DECOMPOSING, OR DAMAGE, REPLACE THE AFFECTED SECTION IMMEDIATELY.
5. SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE SILT FENCE OR CHECK DAM, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
6. THE DRAWINGS AND SPECIFICATIONS INDICATE MINIMUM MEASURES AND BMP'S TO PROTECT AGAINST EROSION AND PROVIDE SEDIMENT CONTROL. ADDITIONAL BMP'S AND ESC MEASURES MAY BE REQUIRED BY THE CONTRACTOR TO MINIMIZE SEDIMENT FROM LEAVING THE CONSTRUCTION ZONE.
7. CONTRACTOR SHALL PERFORM ALL ACTIVITIES PER THE MOST RECENT LOCAL, STATE AND FEDERAL STORM WATER MANAGEMENT PROGRAM RULES AND REGULATIONS.

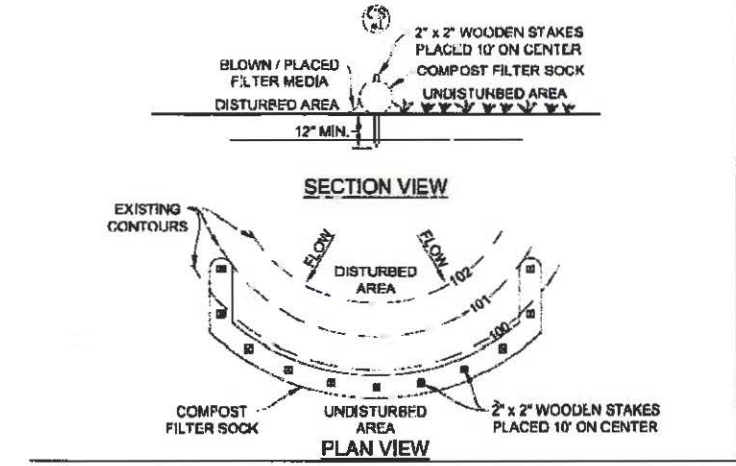
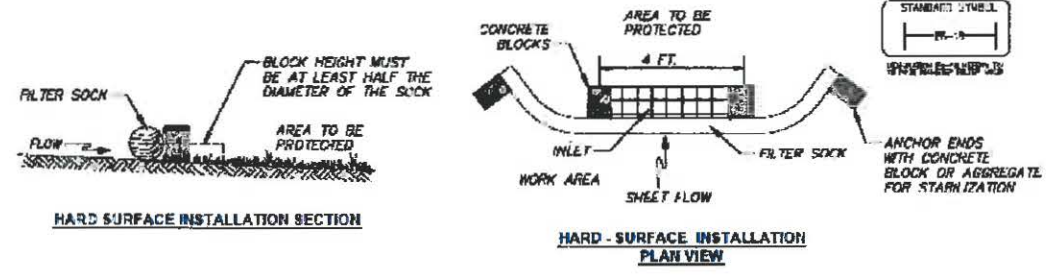


TYPICAL INLET PROTECTION NOT TO SCALE

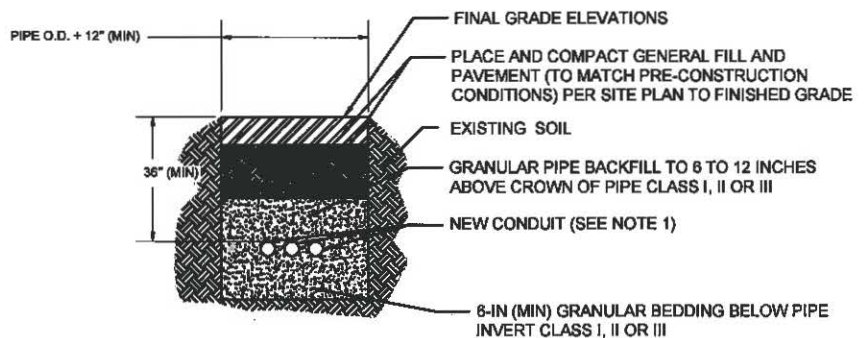


NOTES:

1. CONSTRUCTION TRAFFIC SHALL MAINTAIN AT LEAST 10' OF SEPARATION FROM BURIED PIPES AT ALL TIMES.
2. ALL PIPES SHALL BE BURIED SO THAT THE PIPE CROWN IS A MINIMUM OF 6" BELOW FINISHED GRADE.
3. TRENCHED PIPES SHALL BE MARKED WITH FLAGS OR SIGNS AT 50' INTERVALS TO NOTIFY POTENTIAL TRAFFIC OF THE PIPE'S EXISTENCE.

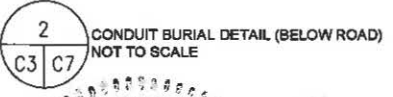


COMPOSITE FILTER SOCK NOT TO SCALE



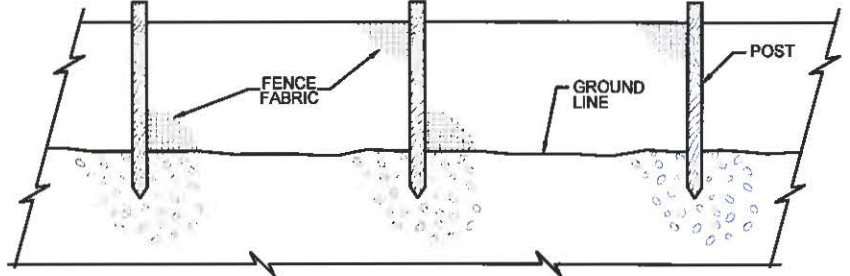
NOTES:

1. PROVIDE A MINIMUM OF 6" OF SEPARATION BETWEEN NEW PIPES.

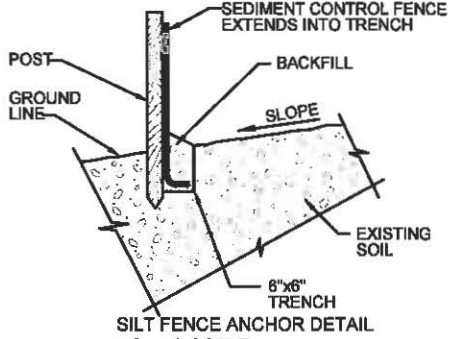


FILTER SOCK CONSTRUCTION SPECIFICATIONS

1. BEFORE INSTALLING, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN 1-INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE FILTER SOCK.
2. FILL SOCK UNIFORMLY WITH COMPOST OR ALTERNATE FILTER MEDIA TO DESIRED LENGTH, WITH ENOUGH MATERIAL THAT THE SOCKS DO NOT DEFORM.
3. PLACE SOCKS ALONG CONTOURS, WITH THE ENDS TURNED UPSLOPE AT 30 TO 45 DEGREES FOR A LENGTH OF AT LEAST 5 FEET TO PREVENT RUNOFF BYPASS.
4. FOR UNTRENCHED INSTALLATION, BACKFILL MULCH OR COMPOST ON THE UPSTREAM SIDE OF THE SOCK AND TAMP TO PREVENT UNDERCUTTING AND PIPING.
5. ANCHORING MUST CONFORM TO THE FOLLOWING LIST: (A) MINIMUM 2-INCH SQUARE CROSS SECTION HARDWOOD; (B) DRIVEN AT LEAST 12 INCHES BELOW GRADE, OR 8 INCHES IF IN DENSE CLAY SOILS; (C) PROTRUDE ABOVE FILTER SOCKS AT LEAST 3 INCHES; (D) DRIVEN IN AT 45-DEGREE ANGLE UPSLOPE; (E) SPACED AT NO MORE THAN 4 FEET APART, OR 8 FEET APART IF THE FILTER SOCK IS ENTRENCHED 4 INCHES INTO THE GROUND.
6. DO NOT USE ENTRENCHED INSTALLATION ON FILTER SOCKS SMALLER THAN 12 INCHES IN DIAMETER.
7. FOR HARD SURFACE INSTALLATION, SUCH AS ON PAVEMENT, ANCHORING MAY BE NECESSARY WHERE STRAIGHT SECTIONS EXCEED 4 FEET. SEE DETAIL ABOVE. WHEN NO ANCHORING IS USED, THE PRACTICE MUST BE CHECKED DAILY, REGARDLESS OF WHETHER RAINFALL OCCURS. ANCHORED INSTALLATION IS ALWAYS PREFERRED TO NON-ANCHORED INSTALLATION, IF POSSIBLE.
8. FOR AT-GRADE INLET PROTECTION, FILTER SOCKS MUST COMPLETELY ENCLOSE THE DRAIN. IF USED AS CURB INLET PROTECTION, THE EFFECTIVE HEIGHT OF THE FILTER SOCK MUST NOT BE HIGHER THAN THE HEIGHT OF THE CURB; USE 8-INCH DIAMETER FILTER SOCK FOR STANDARD HIGHWAY APPLICATIONS.
9. IF MULTIPLE SECTIONS OF FILTER SOCK ARE NEEDED FOR A CONTINUOUS RUN, OVERLAP ENDS OF SEPARATE SECTIONS A MINIMUM OF 2 FEET AND STAKE ENDS.
10. TO REACH TALLER HEIGHTS, IT IS POSSIBLE TO STACK FILTER SOCKS.
11. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF HALF THE EXPOSED HEIGHT OF SOCK AND REPLACE SOCK. REPLACE FILTER SOCK IF TORN. REINSTALL FILTER SOCK IF UNDERMINING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER SOCKS.
12. FOR VEGETATED, PERMANENT OR SEMI-PERMANENT INSTALLATIONS, MAINTAIN THE PLANTS AS IS APPROPRIATE FOR THE SPECIES USED.



SILT FENCE DETAIL NOT TO SCALE



SILT FENCE ANCHOR DETAIL NOT TO SCALE

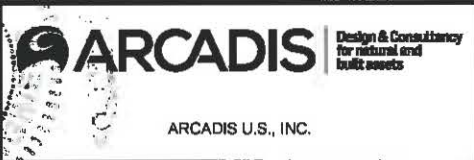
NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL SEDIMENT CONTROL FENCE.
2. FENCE FABRIC SHALL BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES
3. WHEN TWO SECTIONS OF FENCE FABRIC ADJOIN EACH OTHER JOIN IN ACCORDANCE WITH WDNR STORMWATER BEST MANAGEMENT PRACTICES.
4. MAINTENANCE SHALL BE PERFORMED AS REQUIRED BY THE WDNR STORMWATER BEST MANAGEMENT PRACTICES.
5. INSTALL SILT FENCE IN ACCORDANCE WITH THE WDNR STORMWATER BEST MANAGEMENT PRACTICES.

SCALE(S) AS INDICATED

No.	Date	Revisions	By	Ckd
3	04/01/19	ISSUED FOR WPDES PERMIT	EE	TK
2	01/28/19	ISSUED FOR PLANNING PERMIT	EE	TK
1	12/19/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

Professional Engineer's Name		BEN VERBURG	
Professional Engineer's No.		31794-006	
State	Date Signed	Project No.	
WI	04/01/19	BV	
Designed by	Drawn by	Checked by	
BV	EE	TK	



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DITCH B INTERIM ACTION DESIGN

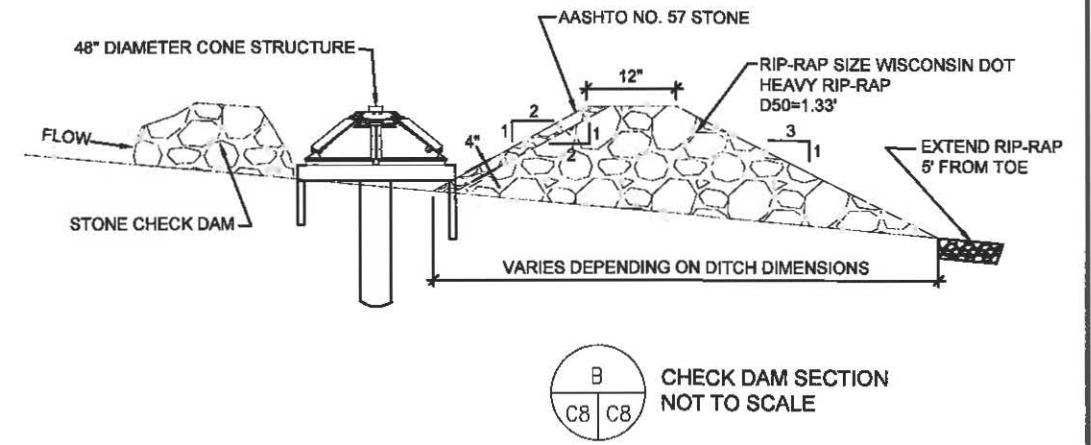
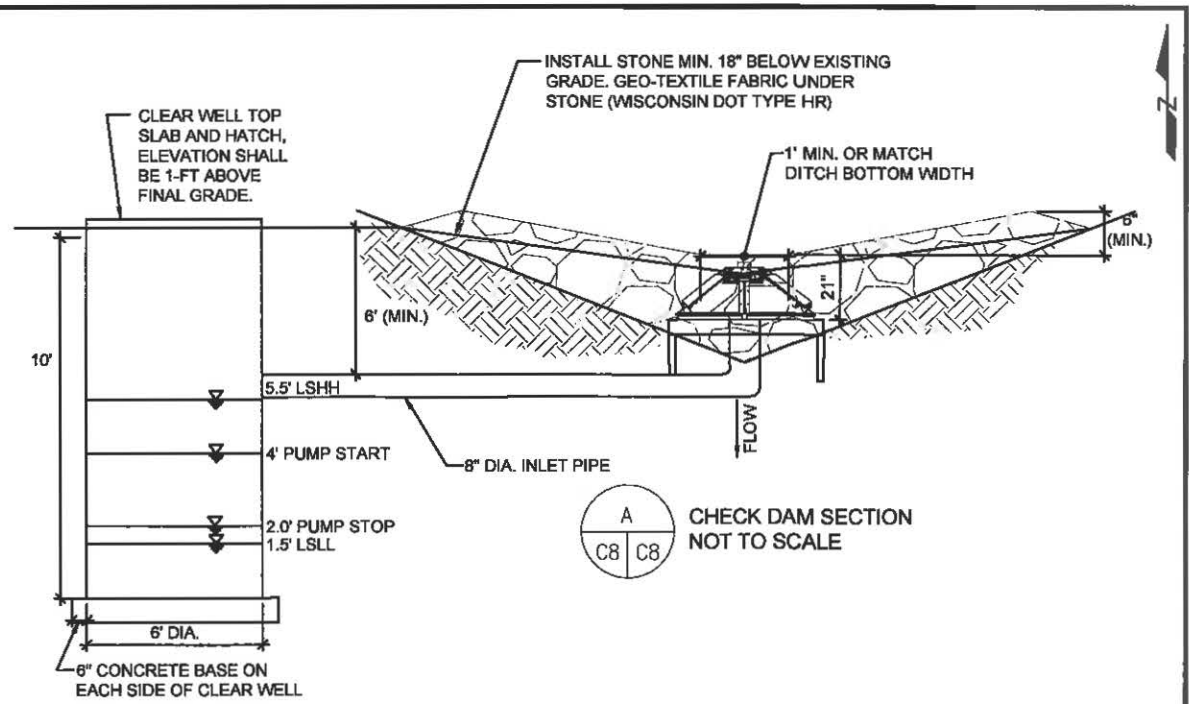
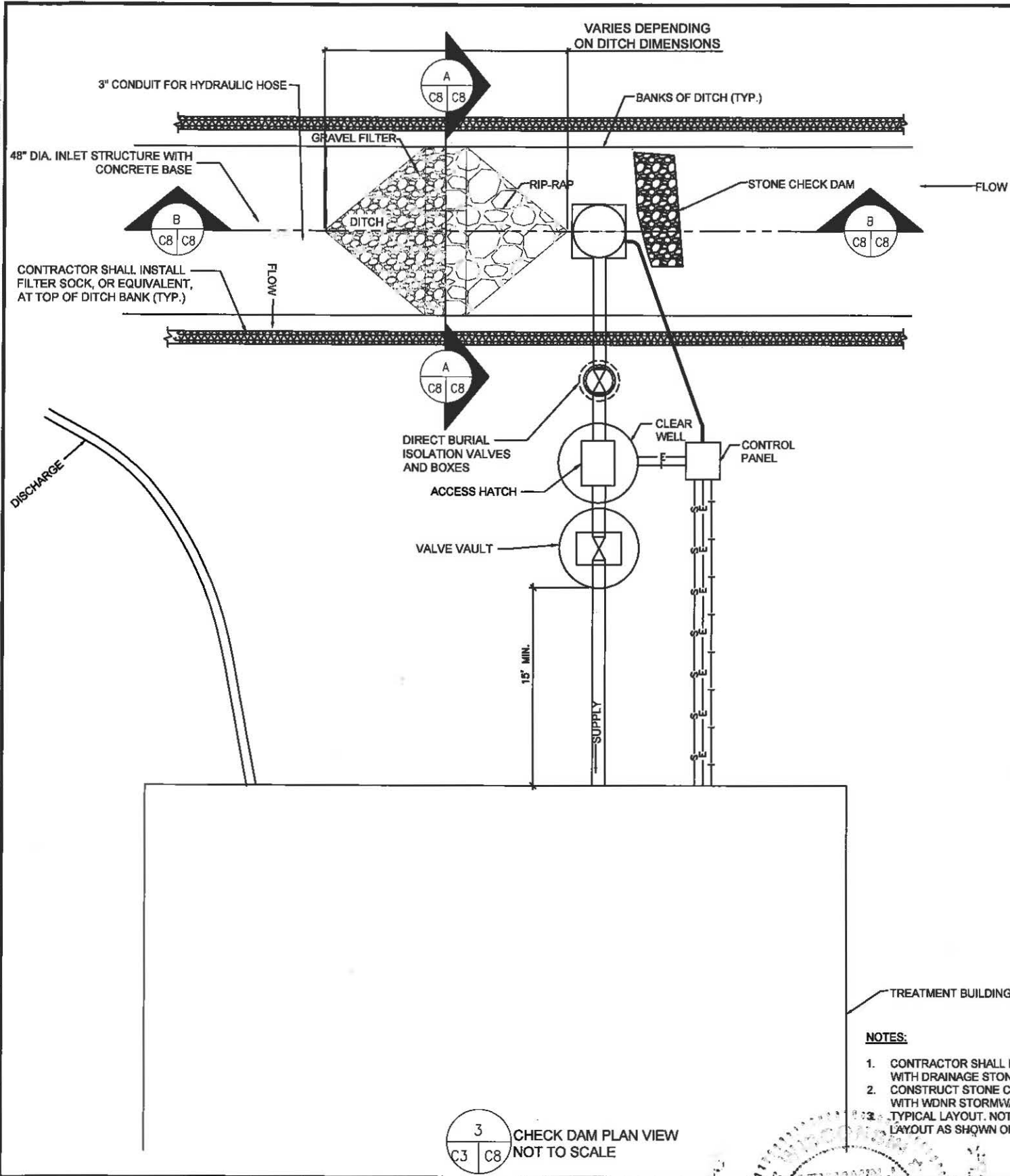
CIVIL DETAILS

ARCADIS Project No. WI001905.0001	
Date	APRIL 2019
ARCADIS U.S., INC. 126 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202	

C7

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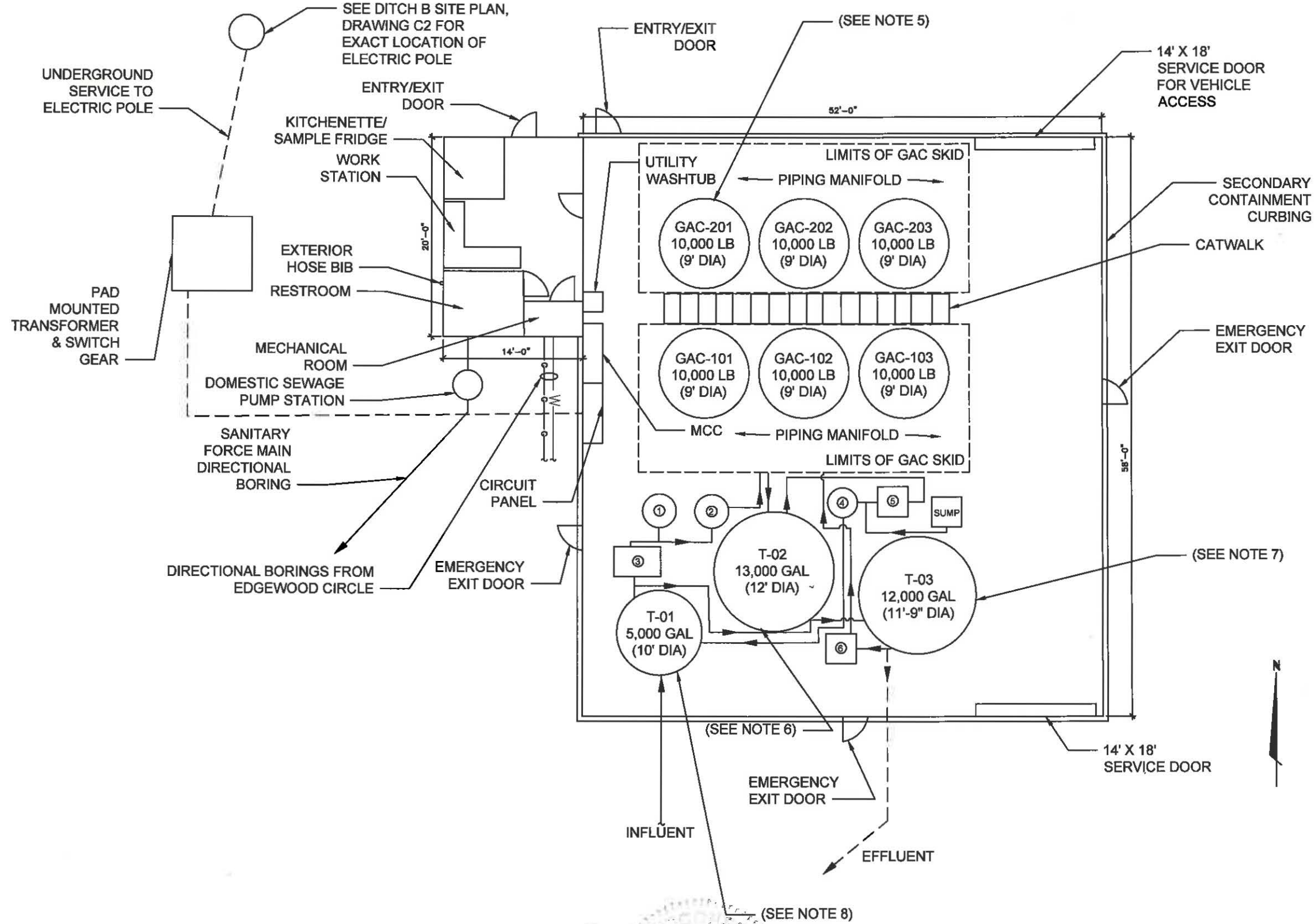
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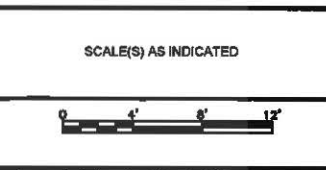
- NOTES:**
1. CONTRACTOR SHALL FILL SUMP EXCAVATION WITH DRAINAGE STONE.
 2. CONSTRUCT STONE CHECK DAM IN ACCORDANCE WITH WDNR STORMWATER BEST PRACTICES.
 3. TYPICAL LAYOUT. NOT REFLECTIVE OF ACTUAL LAYOUT AS SHOWN ON SHEET C2.

SCALE(S) AS INDICATED	3	04/01/19	ISSUED FOR WPDDES PERMIT	EE	TK	Professional Engineer's Name BEN VERBURG
	2	01/28/19	ISSUED FOR PLANNING PERMIT	EE	TK	
NOT TO SCALE	1	12/19/18	ISSUED FOR PERMIT	EE	BV	State WI Date Signed 04/01/19 Project Mgr. BV Checked by TK
	0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV	
	No.	Date	Revisions	By	Ckd.	
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DESIGNED BY: BV			DRAWN BY: EE		CHECKED BY: TK	
ARCADIS U.S., INC.						ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH DITCH B INTERIM ACTION DESIGN CHECK DAM DETAILS ARCADIS Project No. W001605.0001 Date APRIL 2019 ARCADIS U.S., INC. 128 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202
						C8

CITY: MILWAUKEE, WI DWGNO: ENV/CAD DB: E. EBERT LD: E. EBERT PIC: J. BENNETT PM: B. VERBURG TM: B. VERBURG LYRON--OFF--REF
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- NOTES:**
- CONTRACTOR SHALL CLEAR TREES AS NECESSARY. STUMPS SHALL BE LEVEL WITH GROUND SURFACE.
 - ALL ELECTRICAL WORK SHALL MEET ALL FEDERAL AND LOCAL CODES.
 - CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL UTILITIES, STRUCTURES, AND EASEMENTS PRESENT ON AND AROUND THE SITE. ANY DAMAGE TO THESE UTILITIES DUE TO WORK PERFORMED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL RESTORE SITE TO THE EXISTING CONDITIONS UPON COMPLETION OF THE WORK.
 - THE HEIGHT OF THE GAC VESSELS WILL BE APPROXIMATELY 12'-6".
 - THE HEIGHT OF T-02 WILL BE APPROXIMATELY 21'-10".
 - THE HEIGHT OF T-03 WILL BE APPROXIMATELY 16'-0".
 - THE HEIGHT OF T-01 WILL BE APPROXIMATELY 12'-8".
- LEGEND:**
- ① F-01 - BAG FILTER (DIA: 3'-5", HEIGHT: 5'-11")
 - ② F-02 - BAG FILTER
 - ③ P-01/02 - FEED PUMPS
 - ④ F-02 - BAG FILTER
 - ⑤ P-03 - DECANT PUMP
 - ⑥ P-04 - BACKWASH PUMP



No.	Date	Revisions	By	Clk
3	04/01/19	ISSUED FOR WPODES PERMIT	EE	TK
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0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

Professional Engineer's Name BEN VERBURG	
Professional Engineer's No. 31794-008	
State WI	Date Signed 04/01/19
Designed by BV	Project Mgr BV
Drawn by EE	Checked by TK

ARCADIS Design & Consultancy for natural and built assets

ARCADIS U.S., INC.

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DITCH B INTERIM ACTION DESIGN

GENERAL LAYOUT

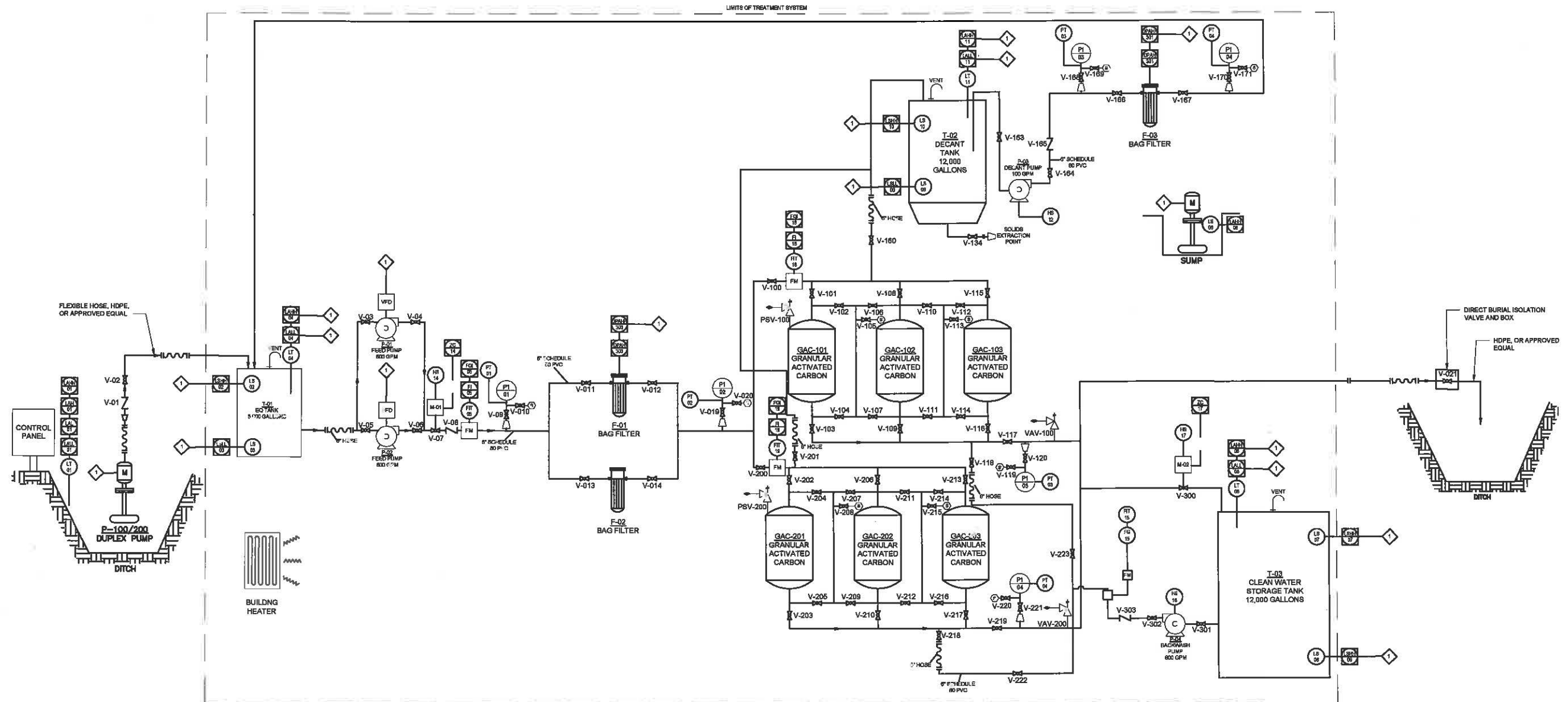
ARCADIS Project No. W001805.0001
Date APRIL 2019
ARCADIS U.S., INC. 126 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202

M1

CITY: MILWAUKEE, WI DIV: GROUP: ENV/CAD DR: E. EBERT PIC: J. BENNETT PM: B. VERBURG TM: B. VERBURG LV: R. W. VERBURG OFF: REF
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	CAPACITY	TOTAL DYNAMIC HEAD (TDH) REQUIRED	PIPE SIZE	PUMP TYPE	EQ TANK	MIN. TOTAL POUNDS OF CARBON	MINIMUM EMPTY BED CONTACT TIME (EBCT)	MINIMUM HYDRAULIC LOADING
SYSTEM B	600 GPM	34 FT	6" OR APPROVED EQUAL	GRINDER, SEWAGE, OR APPROVED EQUAL	5,000 GAL POLYETHYLENE TANK	10,000 LBS	15 MIN	1.5-2.5 GPM/SQ FT

- NOTES:
- CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, INSTRUMENTATION AND ASSOCIATED ELECTRICAL WORK WITHIN THE TREATMENT SYSTEM EXTENTS AND P-100 AND ASSOCIATED CONTROLS AND VALVES.
 - LSHH-01 SHALL CONNECT TO CONTROL PANEL AT TREATMENT SYSTEM.
 - CONTRACTOR TO INCLUDE REMOTE ALARM NOTIFICATION DEVICE TO SEND NOTIFICATIONS OF ALARM CONDITIONS.
 - CONTRACTOR TO SUPPLY DIESEL POWER GENERATOR SUFFICIENTLY SIZED TO POWER TREATMENT SYSTEM.
 - NUMBER OF GRANULAR ACTIVATED CARBON VESSELS MAY VARY UPON ENGINEER APPROVAL.



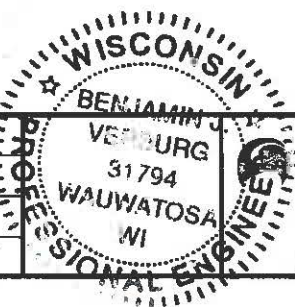
SCALE(S) AS INDICATED

NOT TO SCALE

No.	Date	Revisions	By	Ckd
3	04/01/19	ISSUED FOR WPD'S PERMIT	EE	TK
2	01/28/19	ISSUED FOR PLANNING PERMIT	EE	TK
1	12/18/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

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Professional Engineer's Name
BEN VERBURG
 Professional Engineer's No.
 31794-006
 State
 WI
 Date Signed
 04/01/19
 Project Mgr.
 BV
 Checked by
 TK
 Designed by
 BV



ARCADIS Design & Consultancy for natural and built assets
 ARCADIS U.S., INC.

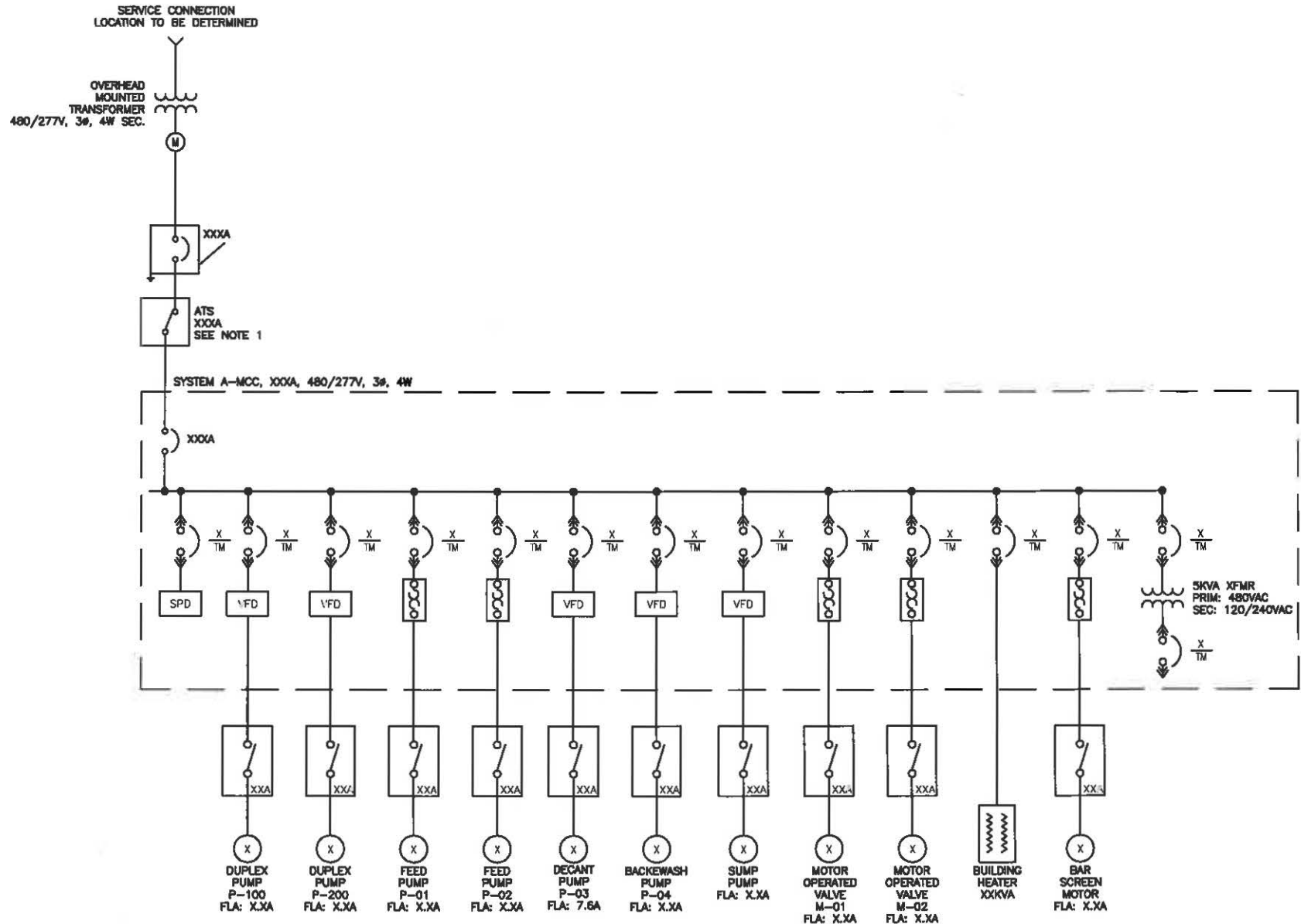
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 DITCH B INTERIM ACTION DESIGN

PIPING AND INSTRUMENTATION DIAGRAM

ARCADIS Project No.
 W001805.0001
 Date
 APRIL 2019
 ARCADIS U.S., INC.
 128 N. JEFFERSON ST.
 SUITE 400
 MILWAUKEE, WI 53202

P1

CITY: MILWAUKEE, WI DIV/GROUP: EN/CAD DB: E. EBERT LD: E. EBERT PIC: J. BENNETT PM: B. VERBURG TM: B. VERBURG LYRON: OFF-REF
 G:\projects\1700\17001605\cad\17001605\17001605.dwg - Northern Lubran Home\12_Single Line.dwg LAYOUT: E1 - SAVED: 1/28/2019 1:33 PM ACADVER: 21.05 (LMS TECH) PAGESETUP: PLOTSTYLETABLE: PLOTSETUP: PLOTTED: 4/12/2019 10:07 AM BY: EBERT, LZ



SYSTEM A-MCC (480 VAC)								
DEVICE	VOLTAGE	PHASE	HP	DUTY FACTOR	BREAKER SIZE (AMPS)	CONNECT LOAD - 480V (AMPS)**	DEMAND LOAD - 480V (AMPS)**	KVA
DUPLEX PUMP P-100	480	3				#N/A	#N/A	#N/A
DUPLEX PUMP P-200	480	3				#N/A	#N/A	#N/A
FEED PUMP P-01	480	3				#N/A	#N/A	#N/A
FEED PUMP P-02	480	3				#N/A	#N/A	#N/A
FEED PUMP P-03	480	3				#N/A	#N/A	#N/A
FEED PUMP P-04	480	3				#N/A	#N/A	#N/A
MOTOR OPERATED VALVE M-01	480	3				#N/A	#N/A	#N/A
MOTOR OPERATED VALVE M-02	480	3				#N/A	#N/A	#N/A
BUILDING HEATER (3)	480	3						
CONTROL PANEL @ CLEAR WELL	480	3						
BAR SCREEN MOTOR LOAD	480	3				#N/A	#N/A	#N/A
SUBTOTALS :						#N/A	#N/A	#N/A

SCALE(S) AS INDICATED

NOT TO SCALE

No.	Date	Revisions	By	Cld
3	04/01/19	ISSUED FOR WPDES PERMIT	EE	TK
2	01/29/19	ISSUED FOR PLANNING PERMIT	EE	TK
1	12/19/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

Professional Engineer's Name
BEN VERBURG

Professional Engineer's No.
31704-008

State
WI

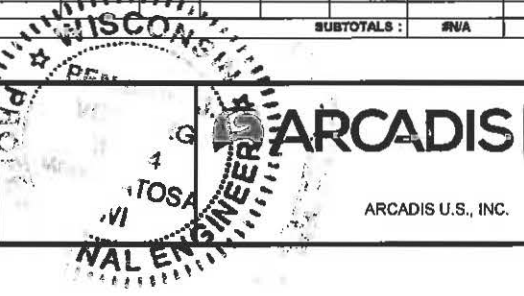
Date Signed
04/01/19

Project Mgr.
BV

Designed by
BV

Drawn by
EE

Checked by
TK



ARCADIS Design & Consultancy for natural and built assets

ARCADIS U.S., INC.

ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH
DITCH B INTERIM ACTION DESIGN

ELECTRICAL SINGLE LINE DIAGRAM

ARCADIS Project No
W001605.0001

Date
APRIL 2019

ARCADIS U.S., INC.
126 N. JEFFERSON ST.
SUITE 400
MILWAUKEE, WI 53202

E1

CITY: MILWAUKEE, WI DIV/GROUP: ENV/CAD DB: E. EBERT LD: E. EBERT PIC: J. BENNETT PM: B. VERBURG TM: B. VERBURG LYRON*OFF*-REF*
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NOTE:
 1. ARCHITECTURAL DRAWING PROVIDED BY BARLEY EXCAVATING, INC.
 2. 24' CEILING HEIGHT

SCALE(S) AS INDICATED	
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No.	Date	Revisions	By	Ckd
3	04/01/19	ISSUED FOR WPDES PERMIT	EE	TK
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1	12/19/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

Professional Engineer's Name BEN VERBURG	
Professional Engineer's No. 31794-008	
State WI	Date Signed 04/01/19
Designed by BV	Drawn by EE
Checked by TK	Project Mgr. BV



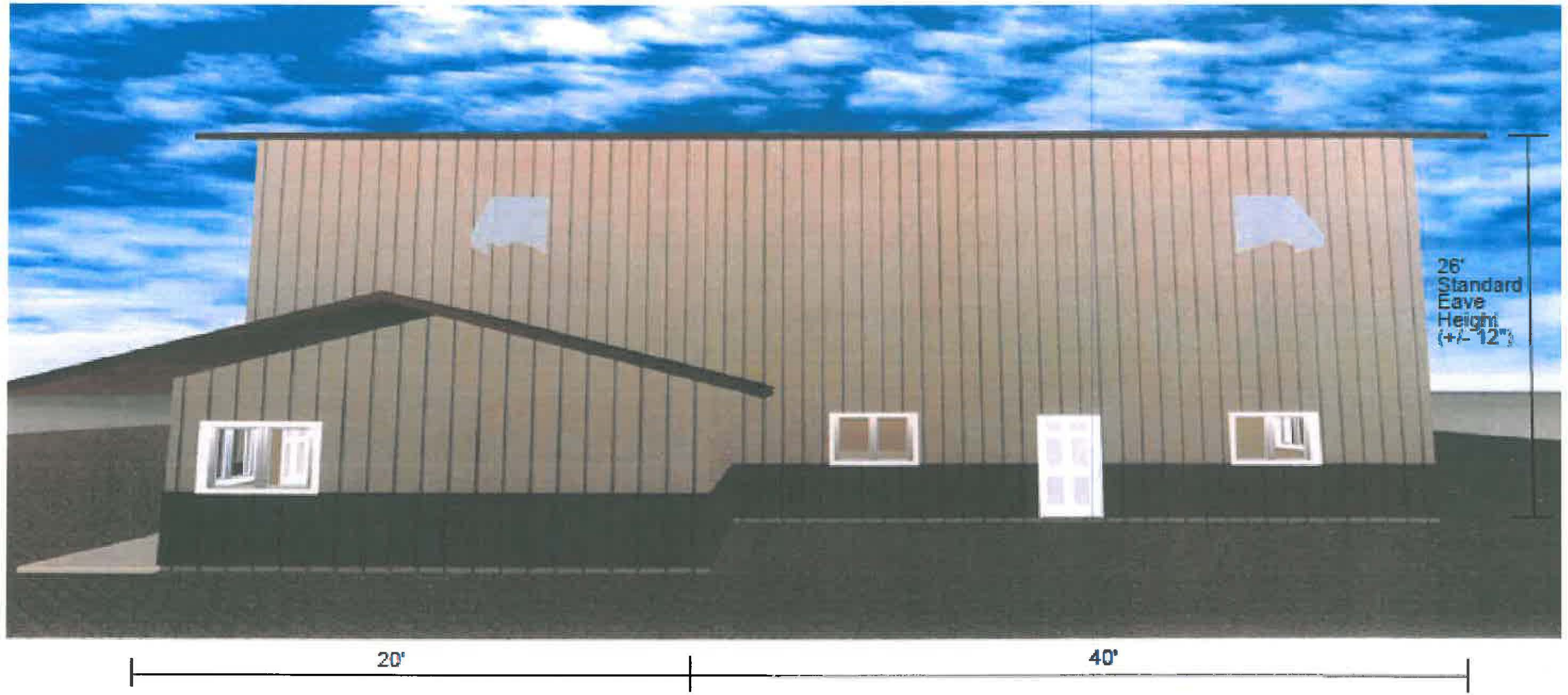
ARCADIS U.S., INC.

ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH
 DITCH B INTERIM ACTION DESIGN
ARCHITECTURAL DRAWING - NORTH VIEW

ARCADIS Project No. W001605.0001
Date APRIL 2019
ARCADIS U.S., INC. 128 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202

A1

CITY: MILWAUKEE WI DIV/GROUP: ENV/CAD DB: E. EBERT LD: E. EBERT PIC: J. BENNETT PM: B. VERBURG TM: B. VERBURG LYRON="OFF"REF: G:\Project\Tycal\001605\001605.dwg Ditch Interim Action\01.dwg LAYOUT: A2 SAVED: 12/29/2019 4:52 PM ACADVER: 21.05 (LMS TECH) PAGES/SETUP: --- PLOT/STYLE/TABLE: --- PLOTTED: 4/1/2019 10:10 AM BY: EBERT, LIZ

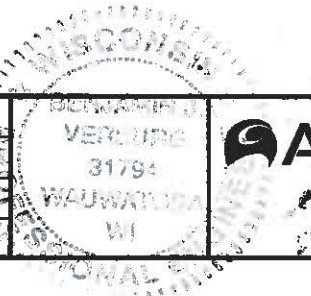


NOTE:
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3	04/01/19	ISSUED FOR WPDES PERMIT	EE	TK
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Professional Engineer's Name
BEN VERBURG
Professional Engineer's No.
31794-006
State
WI
Date Signed
04/01/19
Project Mgr.
BV
Designed by
BV
Drawn by
EE
Checked by
TK



ARCADIS

Design & Consultancy
for natural and
built assets

ARCADIS U.S., INC.

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DITCH B INTERIM ACTION DESIGN

ARCHITECTURAL DRAWING - EAST VIEW

ARCADIS Project No.
WM01605.0001

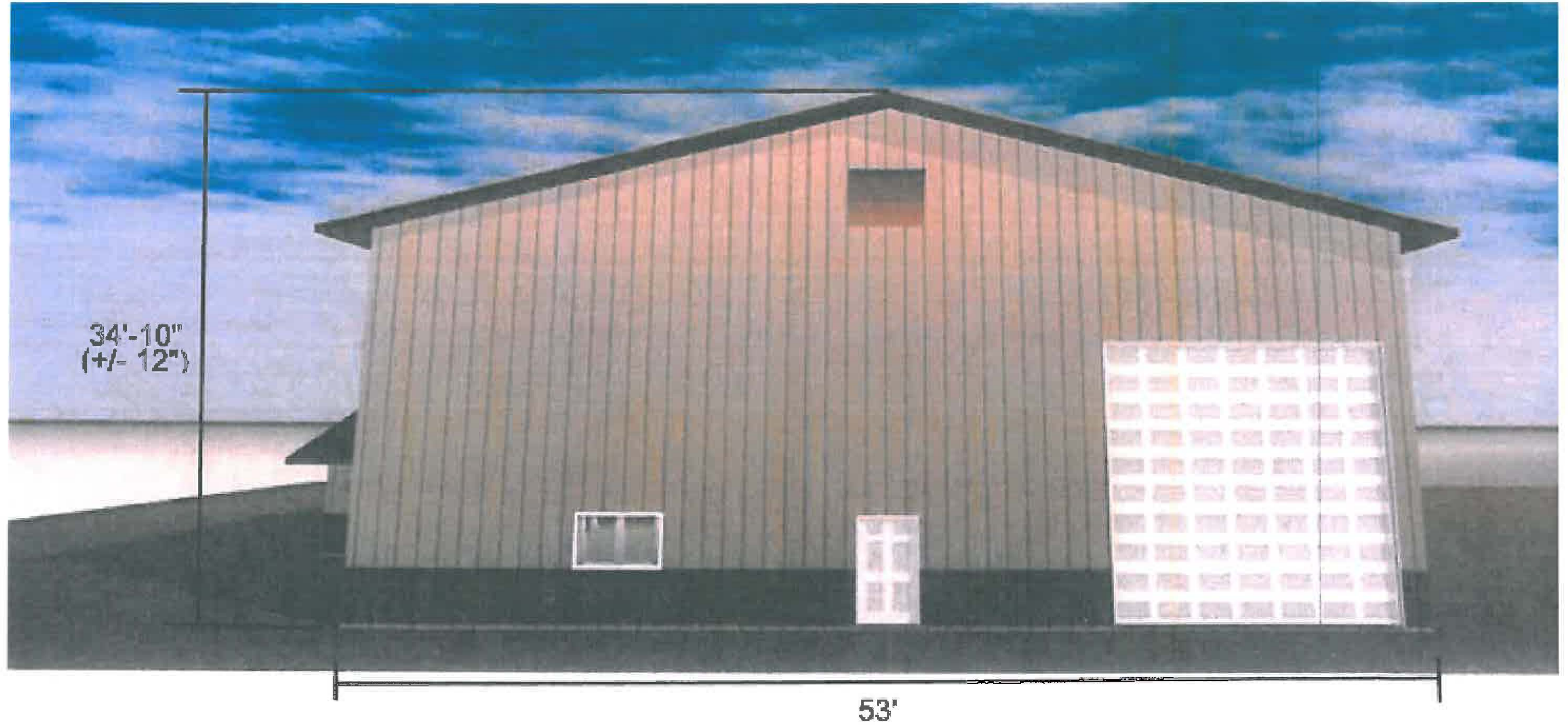
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126 N. JEFFERSON ST.
SUITE 400
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A2

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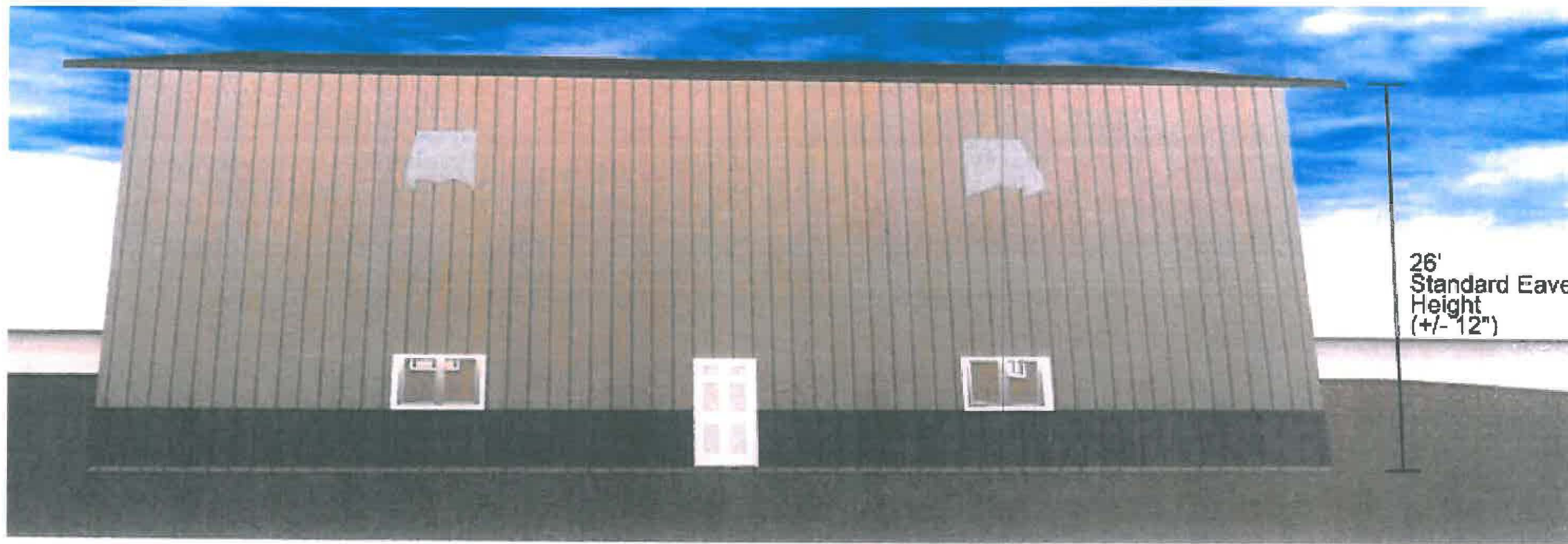
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NOTE:
 1. ARCHITECTURAL DRAWING PROVIDED BY BARLEY EXCAVATING, INC.
 2. 24' CEILING HEIGHT

SCALE(S) AS INDICATED	Professional Engineer's Name		BEN VERBURG				Design & Consultancy for natural and built assets	ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH DITCH B INTERIM ACTION DESIGN	ARCADIS Project No. W001805.0001	A3
	Professional Engineer's No.		31794-008						Date	
NOT TO SCALE	No.	Date	Revisions	By	Ckd	Designed by	Drawn by	Checked by	ARCADIS U.S., INC. 128 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202	
	3	04/01/19	ISSUED FOR WPDES PERMIT	EE	TK	Designed by	Drawn by	Checked by		
	2	01/29/19	ISSUED FOR PLANNING PERMIT	EE	TK	BV	BV	TK		
	1	12/19/18	ISSUED FOR PERMIT	EE	BV					
	0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV					
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CITY: MILWAUKEE, WI DIV/GROUP: ENV/CAD DB: E. EBERT LD: E. EBERT PIC: J. BENNETT PM: B. VERBURG TR: B. VERBURG LYRON- "OFF-REF" PLOTTED: 4/12/2019 10:13 AM BY: EBERT, LIZ
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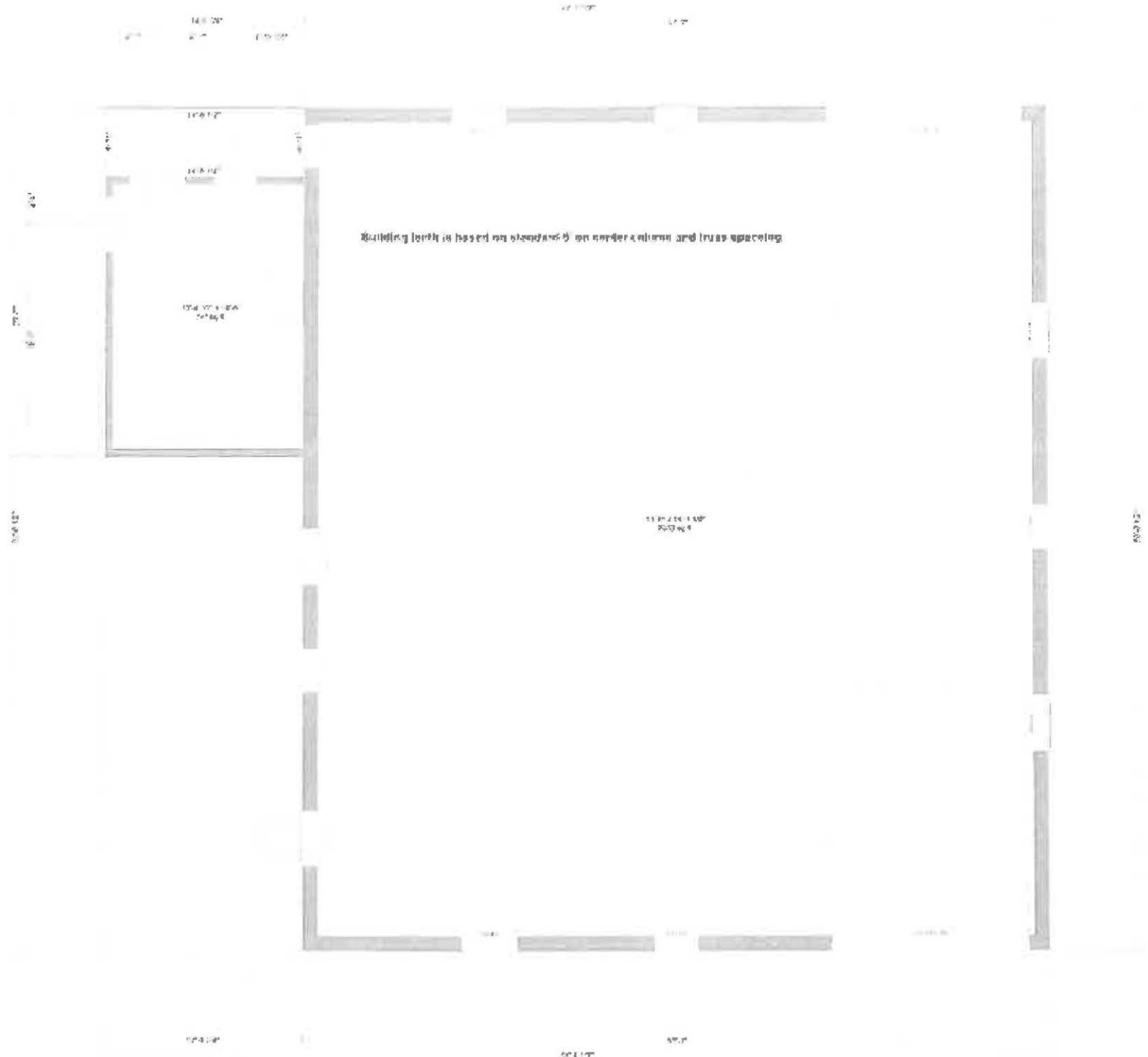


26'
Standard Eave
Height
(+/- 12")

60'

NOTE:
 1. ARCHITECTURAL DRAWING PROVIDED BY BARLEY EXCAVATING, INC.
 2. 24' CEILING HEIGHT

SCALE(S) AS INDICATED			Professional Engineer's Name BEN VERBURG	
	3	04/01/19	ISSUED FOR WPDES PERMIT	EE TK
	2	01/29/19	ISSUED FOR PLANNING PERMIT	EE TK
	1	12/19/18	ISSUED FOR PERMIT	EE BV
	0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE BV
NOT TO SCALE	No.	Date	Revisions	By Ckd
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	Professional Engineer's No. 31784-008		State WI	
	Designed by BV	Date Signed 04/01/19	Project Mgr. BV	Checked by TK
	Professional Engineer's Seal: BEN VERBURG, PE, WISCONSIN, 31784-008		 ARCADIS U.S., INC.	
ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH DITCH B INTERIM ACTION DESIGN			ARCADIS Project No. W001805.0001 Date APRIL 2019 ARCADIS U.S., INC. 126 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202	
ARCHITECTURAL DRAWING - WEST VIEW			A4	



NOTE:
1. ARCHITECTURAL DRAWING PROVIDED BY BARLEY EXCAVATING, INC.

SCALE(S) AS INDICATED	
NOT TO SCALE	

No.	Date	Revisions	By	Ckd
3	04/01/19	ISSUED FOR WPDES PERMIT	EE	TK
2	01/29/19	ISSUED FOR PLANNING PERMIT	EE	TK
1	12/19/18	ISSUED FOR PERMIT	EE	BV
0	12/14/18	DRAFT DESIGN PACKAGE FOR REVIEW	EE	BV

Professional Engineer's Name BEN VERBURG	
Professional Engineer's No. 31784-006	
State WI	Date Signed 04/01/19
Designed by BV	Drawn by EE
Checked by TK	Project Mgr. BV



ANSUL FTC SITE • MARINETTE, WISCONSIN • 2700 INDUSTRIAL PARKWAY SOUTH
DITCH B INTERIM ACTION DESIGN

OVERVIEW

ARCADIS Project No. W001805.0001
Date APRIL 2019
ARCADIS U.S., INC. 128 N. JEFFERSON ST. SUITE 400 MILWAUKEE, WI 53202

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