BOARD OF PUBLIC WORKS

City of Kaukauna
Council Chambers
Municipal Services Building
144 W. Second Street, Kaukauna

Monday, July 31, 2023 at 6:00 PM

AGENDA

In-Person

1. Correspondence.

2. Discussion Topics.
   a. Authorization to seek bids for Project 13-23: Company Woods Pond.
   b. Municipal Pool Project Update - Mini Golf Discussion.
   c. Public Works Upate.

3. Adjourn.

NOTICES

Notice is hereby given that a majority of the City Council will be present at the meeting of the Board of Public Works meeting scheduled for Monday, July 31, 2023 at 6:00 P.M. to gather information about a subject over which they have decision making responsibility.

IF REQUESTED THREE (3) DAYS PRIOR TO THE MEETING, A SIGN LANGUAGE INTERPRETER WILL BE MADE AVAILABLE AT NO CHARGE.

City of Kaukauna
Board of Public Works August 1, 2023
jn/engr dept

Agenda Item #2a
Authorization to seek bids for Project 13-23 Company Woods Pond

Background

The Engineering Department is requesting authorization to seek bids for the Company Woods Pond retrofit project. The pond modifications are part of the approved Total Maximum Daily Loading (TMDL) action plan and budgeted work plan submitted to DNR for the City. The project will take an existing pond that does not met current standards for removal of suspended solids or phosphorus and will increase the depth and surface area to allow for enhanced treatment of the stormwater before it enters the company woods stream and the Lower Fox River. A second phase of this project will create a wetland safety shelf and mesic prairies, as well as planting trees around the pond area. The additions will provide habitat and a low maintenance natural area within the 1000 Islands Conservancy Zone. An urban non-point source grant for the retrofit project was received from WI DNR and will reimburse up to 50% of the project cost. A plan set is attached to this memo.

Recommended Action

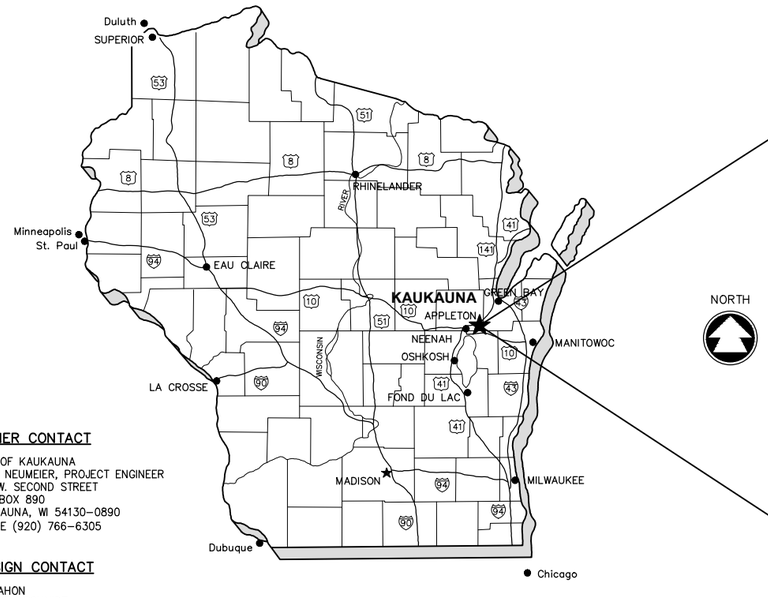
Motion to authorize the Engineering Department to seek bids for Project 13-23, Company Woods Pond.

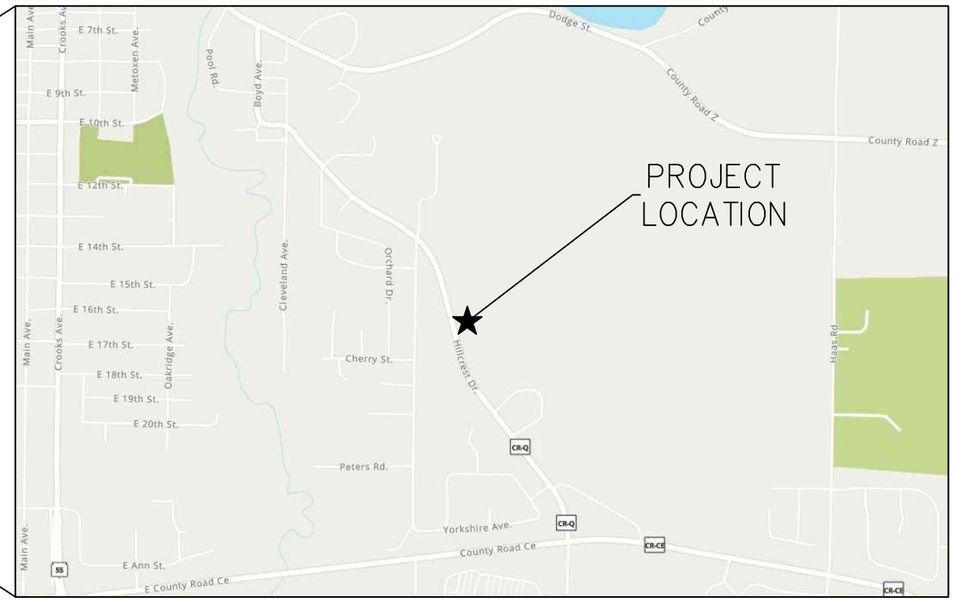
Preliminary - Not for Construction

COMPANY WOODS POND
CITY OF KAUKAUNA

OUTAGAMIE COUNTY, WISCONSIN

MCM # K0006-092200453





CONTACT INFORMATION

UTILITIES

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KENNETH VAN OSS (ELECTRIC)
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(920) 380-3318 (ELECTRIC)
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kenneth.van-oss@we-energies.com

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DESIGN CONTACT

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DNR

DEPARTMENT OF NATURAL RESOURCES
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GREEN BAY, WI 54313-6727
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crystal.vonholdt@wi.gov

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

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PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

SHEET INDEX

DATE
NOV., 2022
PROJECT
K0006-0922

Preliminary - Not for Construction

STANDARD ABBREVIATIONS

AC	ACRE
AGG	AGGREGATE
AH	AHEAD
ASPH	ASPHALT PAVEMENT
AVG	AVERAGE
B-B	BACK TO BACK
BEG	BEGIN
BIT	BITUMINOUS
BK	BACK
B/L	BASE LINE
BLDG	BUILDING
BM	BENCH MARK
BOC	BACK OF CURB
BRG	BEARING
C-C	CENTER TO CENTER
CY	CUBIC YARD
C&G	CURB AND GUTTER
CB	CATCH BASIN
CE	COMMERCIAL ENTRANCE
CHD	CHORD
C/L	CENTER LINE
CL	CLASS (FOR CONC PIPE)
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CORR	CORRUGATED
CP	CONTROL POINT
CR	CRUSHED
CS	CURB STOP
CSW	CONCRETE SIDEWALK
CTH	COUNTY TRUNK HIGHWAY
CULV	CULVERT
D	DEPTH OR DELTA
DI	DUCTILE IRON
DIA	DIAMETER
DIS	DISCHARGE
EA	EACH
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EG	EDGE OF GRAVEL
ELEV	ELEVATION
ELEC	ELECTRIC
EMB	EMBANKMENT
EMAT	EROSION MAT
ENT	ENTRANCE
EOR	END OF RADIUS
EP	EDGE OF PAVEMENT
EXC	EXCAVATION
EX	EXISTING
EW	ENDWALL
F-F	FACE TO FACE
FDN	FOUNDATION
FE	FIELD ENTRANCE
FERT	FERTILIZER
FG	FINISHED GRADE
F/L	FLOW LINE
FT	FOOT
FTG	FOOTING
GRAV	GRAVEL
GN	GRID NORTH
GV	GAS VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HT	HEIGHT
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH
INL	INLET
INV	INVERT
IP	IRON PIPE
JCT	JUNCTION
LB	POUND
LF	LINEAR FOOT
LP	LIGHT POLE
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAINT	MAINTENANCE
MAT'L	MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE
MP	MILE POST
NB	NORTHBOUND
NO	NUMBER
NOR	NORMAL
OD	OUTSIDE DIAMETER
OBLIT	OBLITERATE
PAV'T	PAVEMENT
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE
PE	PRIVATE ENTRANCE
PED	PEDESTAL
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PSD	PASSING SIGHT DISTANCE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REBAR	REINFORCEMENT ROD
REM	REMOVE
RECON	RECONSTRUCT
REQ'D	REQUIRED
R/L	REFERENCE LINE
RP	RADIUS POINT
RR	RAILROAD
RT	RIGHT
R/W	RIGHT-OF-WAY
SB	SOUTHBOUND
SE	SUPERELEVATION
SF	SQUARE FEET
SI	SLOPE INTERCEPT
STH	STATE TRUNK HIGHWAY
SY	SQUARE YARD
SALV	SALVAGED
SAN	SANITARY
SEC	SECTION
SHLDR	SHOULDER
S/L	SURVEY LINE
SQ	SQUARE
STA	STATION
STD	STANDARD
STO	STORM
SW	SIDEWALK
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
USH	U.S. HIGHWAY
VAR	VARIES
VC	VERTICAL CURVE
VERT	VERTICAL
WB	WESTBOUND
WM	WATER MAIN
WV	WATER VALVE

GENERAL NOTES

1. THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING ANY PRIVATE UTILITIES, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY VERTICAL DISCREPANCY.
3. EXISTING STREET RIGHT-OF-WAY AND INTERSECTING PROPERTY LINES ARE ESTABLISHED FROM FIELD LOCATED SURVEY MONUMENTATION, PREVIOUS SURVEYS, PLATS AND CURRENT PROPERTY DEEDS.
4. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNER.
5. A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC CONCRETE SURFACE.
6. ALL CURB RADII SHOWN ON THE PLAN SHEETS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
7. DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

THIS PLAN SET WAS CREATED WITH **CIVIL3D 2018**. MCMAHON'S "DISCLAIMER FOR TRANSFER OF ELECTRONIC FILES" FORM NEEDS TO BE SIGNED IF A COPY OF THE ELECTRONIC FILES ARE REQUESTED. MCMAHON MAKES NO REPRESENTATION REGARDING THE COMPATIBILITY OF THESE FILES WITH OTHER SOFTWARE, NOR DOES MCMAHON REPRESENT THAT THE FILES WILL CONVERT TO OTHER SOFTWARE WITHOUT ERROR.

STANDARD SYMBOLS (PLAN VIEW ONLY)

- 2" IRON PIPE FOUND
- 1 1/4" REBAR FOUND
- 1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET
- 1" (1.315 OD) IRON PIPE FOUND
- 1" IRON PIPE SET
- 3/4" IRON REBAR FOUND
- 3/4" IRON PIPE FOUND
- 3/4"x 24" IRON REBAR WEIGHING 1.5 LB/LF SET
- MAG NAIL FOUND
- MAG NAIL SET
- MAG SPIKE FOUND
- MAG SPIKE SET
- CHISEL CROSS FOUND
- CHISEL CROSS SET
- COUNTY MONUMENT
- CONCRETE MONUMENT FOUND
- CONTROL POINT HORIZONTAL
- VERTICAL BENCHMARK
- SB or MW SOIL BORING or MONITORING WELL
- POWER POLE
- POWER POLE W/GUY WIRE
- TELEPHONE OR TELEVISION PEDESTAL
- MB MAILBOX
- SIGN
- RAILROAD CROSS BUCK
- RAILROAD GATE ARM
- RAILROAD TRACKS
- LIGHT POLE
- WOOD POLE
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL MAST ARM
- CONIFEROUS TREE
- DECIDUOUS TREE
- TREE OR BRUSH LINE
- BED ROCK (IN PROFILE VIEW)
- HANDICAPPED PARKING STALL
- EXISTING SPOT ELEVATION
- × 750.00 PROPOSED SPOT ELEVATION
- DRAINAGE HIGH POINT
- DRAINAGE DIRECTION
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING INLET
- PROPOSED INLET
- EXISTING YARD DRAIN
- PROPOSED YARD DRAIN
- CO EXISTING CLEAN OUT
- CO PROPOSED CLEAN OUT
- EXISTING DOWNSPOUT
- PROPOSED DOWNSPOUT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING CURB STOP
- PROPOSED CURB STOP
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER FITTING
- PROPOSED WATER REDUCER
- PROPOSED ENDCAP
- GAS VALVE

- T TELEPHONE CABLE - BURIED
- E ELECTRIC CABLE - BURIED
- OHU UTILITIES - OVERHEAD
- FO FIBER OPTIC CABLE - BURIED
- G GAS MAIN
- TV CABLE TELEVISION - BURIED
- DITCH LINE
- STREET C/L OR R/L
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- 746 EXISTING CONTOURS
- 746 PROPOSED CONTOURS
- FM EXISTING FORCEMAIN SEWER
- SAN EXISTING SANITARY SEWER
- SAN PROPOSED SANITARY SEWER
- WM EXISTING WATER MAIN
- WM PROPOSED WATER MAIN
- STO EXISTING STORM SEWER
- STO PROPOSED STORM SEWER
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED REJECT CURB & GUTTER
- EXISTING CULVERT WITH END SECTIONS
- PROPOSED CULVERT WITH END SECTIONS
- BUILDING OUTLINE
- FENCE LINE
- SAW CUT REQ'D
- SILT FENCE
- GUARD RAIL
- DITCH CHECK
- INLET PROTECTION
- TRACKING PAD
- TURBIDITY BARRIER OR SHEET PILING
- SANDBAG COFFERDAM
- SLOPE INTERCEPT
- LIMITS OF DISTURBANCE

EXISTING	PROPOSED	
		ASPHALT PAVEMENT
		CONCRETE SIDEWALK/DRIVEWAY
		GRAVEL
		RIP-RAP (SIZE AS SPECIFIED)
		PROPOSED TURF REINFORCEMENT MAT (TRM)
		EXISTING DELINEATED WETLANDS

EROSION & SEDIMENT CONTROL PLAN

BEST MANAGEMENT PRACTICES:

THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS. THESE STANDARDS MAY BE FOUND ON THE DNR WEBSITE AT http://www.dnr.wi.gov/runoff/stormwater/techstds.htm. THE MINIMUM BEST MANAGEMENT PRACTICES SPECIFIED FOR THIS PROJECT ARE AS FOLLOWS:

[ ] LAND APPLICATION OF ADDITIVES (1050)
[ ] WATER APPLICATION OF ADDITIVES (1051)
[ ] NON-CHANNEL EROSION MAT (1052)
[ ] CHANNEL EROSION MAT (1053)
[ ] VEGETATIVE BUFFER (1054)
[ ] SEDIMENT BALE BARRIER (1055)
[X] PERIMETER SEDIMENT CONTROL (1056)
[X] TRACKOUT CONTROL (1057)
[X] MULCHING (1058)
[X] SEEDING (1059)
[X] STORM DRAIN INLET PROTECTION (1060)
[X] DE-WATERING (1061)
[X] DITCH CHECK (1062)
[ ] SEDIMENT TRAP (1063)
[ ] SEDIMENT BASIN (1064)
[X] RIP-RAP (1065)
[ ] CONSTRUCTION DIVERSION (1066)
[X] TEMPORARY GRADING PRACTICES (1067)
[X] DUST CONTROL (1068)
[ ] TURBIDITY BARRIER (1069)
[ ] SILT CURTAIN (1070)
[ ] HORIZONTAL DIRECTIONAL DRILLING (1072)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND IMPLEMENT BEST MANAGEMENT PRACTICES TO PREVENT OR REDUCE ALL OF THE FOLLOWING:

A. DEPOSITION OR TRACKING OF SOIL ONTO STREETS BY VEHICLES.
B. DISCHARGE OF SEDIMENT INTO STORM WATER INLETS.
C. DISCHARGE OF SEDIMENT INTO ADJACENT STREAMS, RIVERS, LAKES AND WETLANDS.
D. DISCHARGE OF SEDIMENT FROM DITCHES AND STORM SEWERS THAT FLOW OFFSITE.
E. DISCHARGE OF SEDIMENT FROM DEWATERING ACTIVITIES.
F. DISCHARGE OF SEDIMENT FROM SOIL STOCKPILES EXISTING FOR 7 DAYS OR MORE.
G. DISCHARGE OF SEDIMENT FROM EROSIVE OUTLET FLOWS.
H. TRANSPORT OF CHEMICALS, CEMENT AND BUILDING MATERIALS BY RUNOFF.
I. TRANSPORT OF UNTREATED VEHICLE AND WHEEL WASH WATER BY RUNOFF.

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PREVENTATIVE MEASURES:

A. PRESERVE EXISTING VEGETATION WHENEVER POSSIBLE.
B. MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.
C. MINIMIZE LAND DISTURBANCES ON SLOPES OF 20% OR MORE.
D. MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME.
E. DIVERT CLEAR WATER AWAY FROM EXPOSED SOILS.
F. TEMPORARILY STABILIZE EXPOSED SOILS THAT WILL NOT BE ACTIVE FOR 14 DAYS OR MORE. USE MULCHING, SEEDING, POLYACRYLAMIDE OR GRAVELING TO STABILIZE.
G. PERMANENTLY STABILIZE EXPOSED SOILS AS SOON AS POSSIBLE.
H. CONTRACTOR SHALL EDUCATE ITS EMPLOYEES AND SUBCONTRACTORS ABOUT PROPER SPILL PREVENTION AND RESPONSE PROCEDURES. IF A SPILL OCCURS, THE CONTRACTOR SHALL EVACUATE THE AREA AND IMMEDIATELY NOTIFY THE LOCAL MUNICIPALITY, FIRE DEPARTMENT OR 911 EMERGENCY SYSTEM. IF NO FIRE, EXPLOSION OR LIFE / HEALTH SAFETY HAZARD EXISTS, THE NEXT STEP IS TO CONTAIN THE SPILL AND PERFORM CLEANUP. USE DRY CLEANUP METHODS, NOT WET.

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING BEST MANAGEMENT PRACTICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES BY THE END OF THE WORK DAY. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING BEST MANAGEMENT PRACTICES TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITY AS SOON AS THOSE ACTIVITIES ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF TEMPORARY BEST MANAGEMENT PRACTICES AFTER CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION IS ESTABLISHED.

INSPECTION & MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING BEST MANAGEMENT PRACTICES WEEKLY, AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. WRITTEN DOCUMENTATION OF EACH INSPECTION SHALL BE KEPT AT THE CONSTRUCTION SITE AND SHALL INCLUDE THE FOLLOWING INFORMATION: DATE, TIME, AND LOCATION OF INSPECTION; NAME OF INDIVIDUAL WHO PERFORMED THE INSPECTION; AN ASSESSMENT OF THE CONDITION OF BEST MANAGEMENT PRACTICES; A DESCRIPTION OF ANY BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED; AND A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES AS NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING, MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%.

THE CONTRACTOR IS RESPONSIBLE FOR POSTING THE PERMIT IN A CONSPICUOUS LOCATION ON THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING A COPY OF THE APPROVED REPORTS, PLANS, AMENDMENTS, INSPECTION REPORTS, AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER WHEN THE VEGETATIVE DENSITY REACHES AT LEAST 70%. THE OWNER IS RESPONSIBLE FOR TERMINATING DNR PERMIT COVERAGE.

AMENDMENTS:

THE CONTRACTOR IS RESPONSIBLE FOR AMENDING THE EROSION & SEDIMENT CONTROL PLAN IF: THERE IS A CHANGE IN CONSTRUCTION, OPERATION OR MAINTENANCE AT THE SITE WHICH HAS THE REASONABLE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS; THE ACTIONS REQUIRED BY THE PLAN FAIL TO REDUCE THE IMPACTS OF POLLUTANTS CARRIED BY CONSTRUCTION SITE RUNOFF; OR IF THE DNR NOTIFIES THE APPLICANT OF CHANGES NEEDED IN THE PLAN. THE DNR AND OWNER SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO MAKING CHANGES TO THE PLAN.

McMAHON ENGINEERS ARCHITECTS
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NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
ABBREVIATIONS SYMBOLS & NOTES

DESIGNED	DRAWN
AWS	AWS

PROJECT NO. K0006-092200453
DATE NOV., 2022
SHEET NO. 01

aschmidt W:\PROJECTS\K0006\092200453\CADD\Civil3D\Plan Sheets\00 Title-Notes-Details.dwg, 01 abbreviations symbols & notes, Plot Date: 7/20/2023 11:18 AM, xrefs:none

Preliminary - Not for Construction

NORTH

30 15 0 30
SCALE – FEET

HORIZONTAL CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
4	563809.82	866481.14	MAG NAIL
5	563601.09	866538.94	MAG NAIL

VERTICAL BENCHMARK CONTROL		
POINT #	ELEVATION	DESCRIPTION
6	711.03	HYDRANT ARROW
7	713.60	HYDRANT ARROW

NOTE:
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ALSO VERIFY HORIZONTAL CONTROL BY FIELD CHECKING SEVERAL CONTROL POINTS AND SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY DISCREPANCIES.

VERTICAL DATUM
ELEVATIONS ARE REFERENCED TO NGS DATA:
CONTROL POINT NAME: BUCHANAN C GPS
POINT ID: DF5990 NAVD 88 DATUM
BY GPS OBSERVATION TO ELEVATION = 728.28 (2007 ADJUSTMENT)
PER FIELD BOOK 1520 PAGE 55

HORIZONTAL DATUM:
COORDINATES ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM AS PUBLISHED FOR OUTAGAMIE COUNTY NAD 83 (1991)

McMAHON ENGINEERS ARCHITECTS
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NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
SURVEY CONTROL

DESIGNED	DRAWN
AWS	AWS

PROJECT NO.
K0006–092200453
DATE
NOV., 2022
SHEET NO.
02

Item 2.a.

Preliminary - Not for Construction

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ENGINEERS ARCHITECTS
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NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
EXISTING SITE PLAN

DESIGNED	DRAWN
AWS	AWS

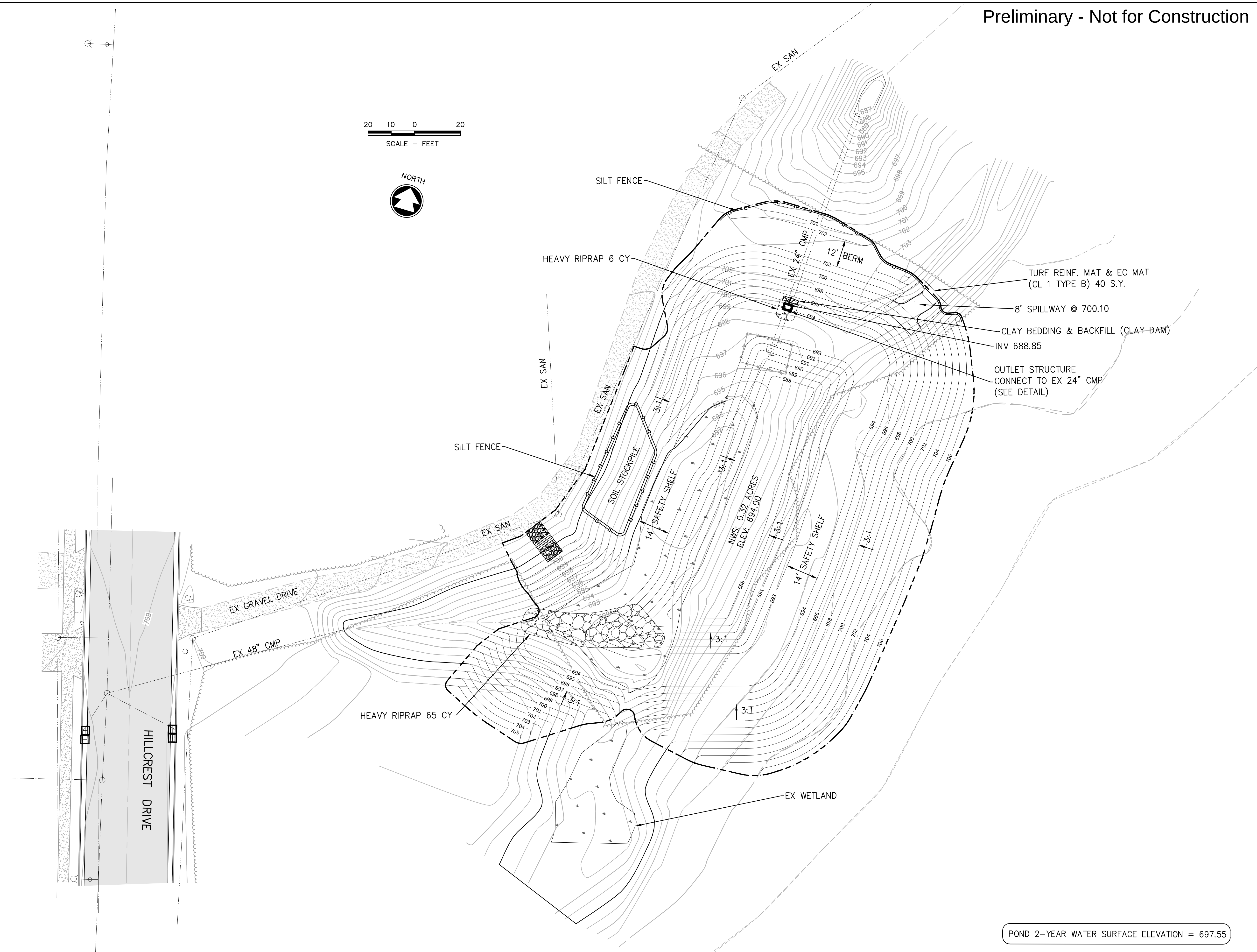
PROJECT NO. K0006–092200453

DATE NOV., 2022

SHEET NO. 03

aschmidt, W:\PROJECTS\K0006\092200453\CADD\Civil3D\Plan Sheets\03 EXISTING SITE PLAN.dwg, 03 existing site plan, Plot Date: 7/20/2023 11:18 AM, xrefs: (x-exist topo company woods pond, x-all points company woods pond, x-exist shade company woods pond, x-aerial county 2020)

Preliminary - Not for Construction



POND 2-YEAR WATER SURFACE ELEVATION = 697.55

McMAHON
ENGINEERS \ ARCHITECTS
McMAHON ASSOCIATES, INC.
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NO.	DATE	REVISION

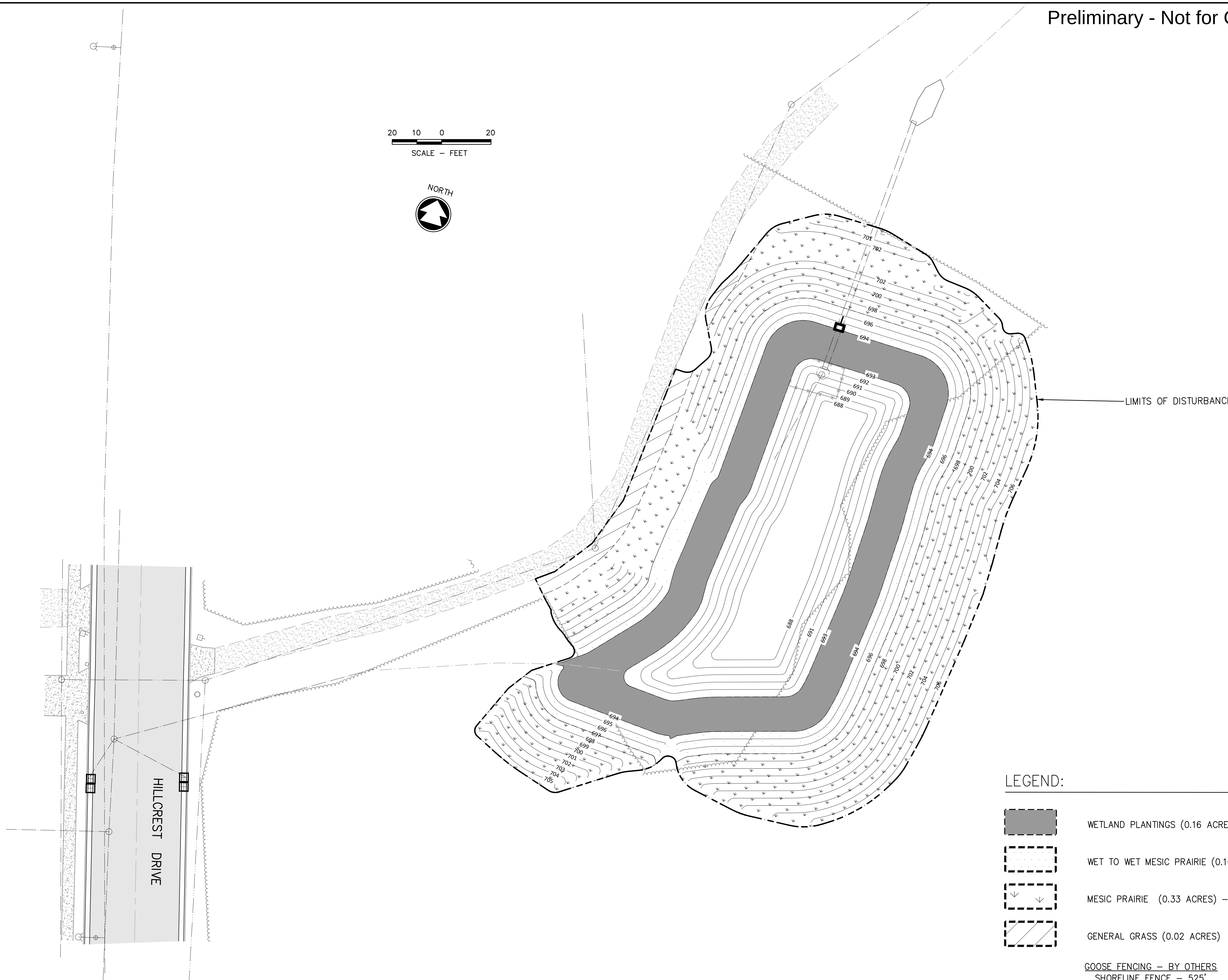
COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
PROPOSED POND PLAN

DESIGNED	DRAWN
AWS	AWS

PROJECT NO. K0006-092200453
DATE NOV., 2022
SHEET NO. 04

aschmidt, W:\PROJECTS\K0006\092200453\CADD\Civil3D\Plan Sheets\04 PROPOSED POND PLAN.dwg, 04 proposed pond plan, Plot Date: 7/20/2023 11:18 AM, xrefs: (x-exist topo company woods pond, x-all points company woods pond, x-exist shade company woods pond, x-proposed company woods)

Preliminary - Not for Construction



LEGEND:

- WETLAND PLANTINGS (0.16 ACRES) – BY OTHERS
- WET TO WET MESIC PRAIRIE (0.10 ACRES) – BY OTHERS
- MESIC PRAIRIE (0.33 ACRES) – BY OTHERS
- GENERAL GRASS (0.02 ACRES)

GOOSE FENCING – BY OTHERS
SHORELINE FENCE – 525'
INSIDE FENCE – 405'

aschmidt, W:\PROJECTS\K0006\092200453\CADD\Civil3D\Plan Sheets\05 LANDSCAPE PLAN.dwg, 05 landscape plan, Plot Date: 7/20/2023 11:18 AM, xrefs: (x-exist topo company woods pond, x-all points company woods pond, x-exist shade company woods pond, x-proposed company woods, contours heart of valley)

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NO.	DATE	REVISION

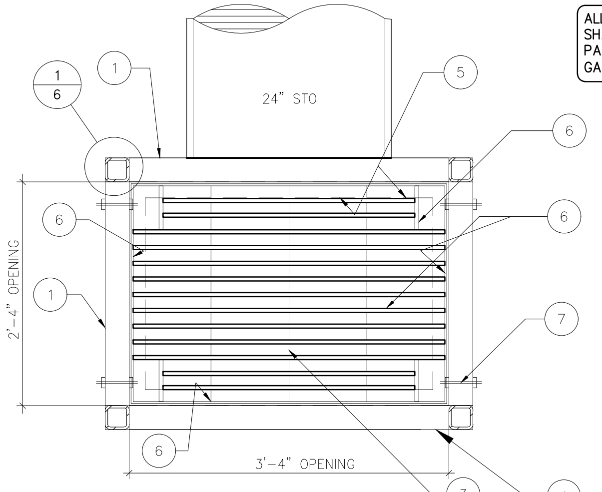
COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
LANDSCAPE PLAN

DESIGNED	DRAWN
AWS	AWS

PROJECT NO. K0006-092200453
DATE NOV., 2022
SHEET NO. 05

Preliminary - Not for Construction

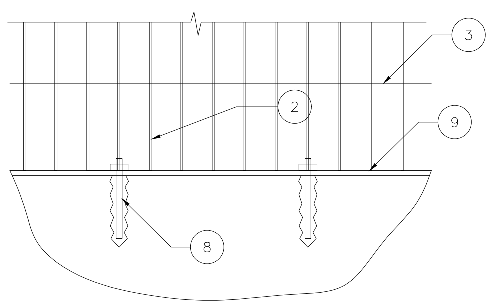
Item 2.a.



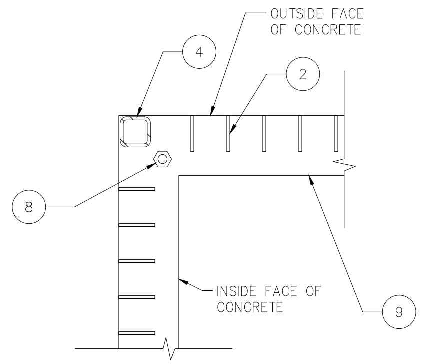
TOP TRASH RACK DETAIL PLAN VIEW

ELEMENT KEY

1 HSS 3x3x1/4
2 1/4"x3" PLATE @ 3"o.c. MAXIMUM
3 1/2" DIA BAR @ 10"o.c. MAXIMUM
4 HSS2x2x1/4
5 1/4"x2" HORIZONTAL PLATE WELDED TO SIDE OF HSS3x3x1/4
6 1/4"x2" PLATE @ 2"o.c. MAXIMUM
7 3/8" DIA. SST BOLT
8 3/8" DIA. SST ADHESIVE ANCHOR @ 24"o.c. MAXIMUM
9 3/8"x5"x CONT. PLATE



GRATE SUPPORT DETAIL 2/6



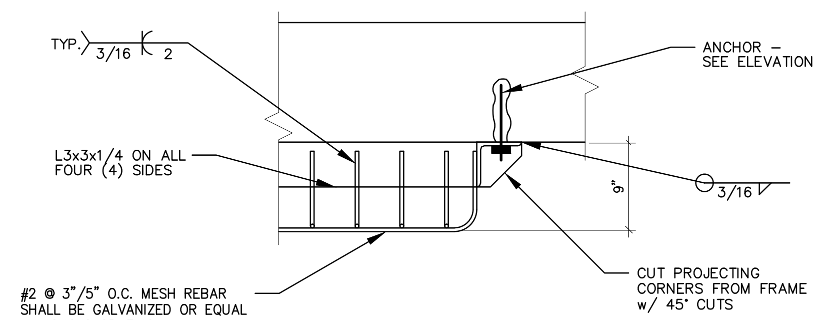
CORNER DETAIL 1/6

STRUCTURAL STEEL

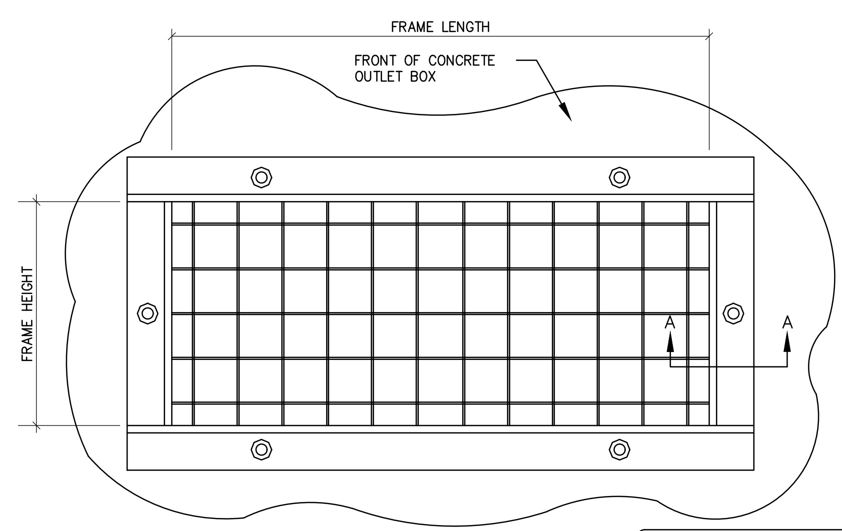
1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS:
   BARS & PLATES – ASTM A36 THREADED BOLTS – ASTM A301
   ANCHOR BOLTS – ASTM A36 THREADED BOLTS – ASTM A36
   WELDS – E70 XX
   ALL STEEL SHALL BE GALVANIZED, AND PAINTED ONCE FABRICATED.
2. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES", CURRENT EDITION.
3. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. CODE FOR WELDING IN BUILDING CONSTRUCTION. SURFACES FOR FIELD WELDED MATERIAL SHALL BE PROPERLY PREPARED PRIOR TO BEING WELDED TO ASSURE A GOOD QUALITY WELD. REMOVE PAINT, GREASE, DIRT, ETC.
4. ALL STEEL MEMBERS SHALL BE WELDED WITH A 3/16" CONTINUOUS FILLET WELD (UNLESS OTHERWISE NOTED)
5. ALL WELDS SHALL BE TOUCHED UP WITH GALVANIZING COMPOUND, THEN PAINTED ACCORDING TO:

PAINT:

SURFACE	TNEMEC COATING SYSTEM	COVERAGE SQ. FT./GAL	THICKNESS /COAT DMT	COLOR
STEEL (OUTDOORS)	SHOP PRIMER 69-1255 BEIGE	277	4.0	BEIGE
	1 COAT 69 H.B. EPOXY	221	5.0	BLACK
	1 COAT 74 ENDURA-SHELD IV	310	3.0	BLACK



SECTION A–A



NOTES:

1. WHEN FRAME HEIGHT IS 24 INCHES OR LESS, PROVIDE (1) ANCHOR PER VERTICAL LEG, OTHERWISE PROVIDE TWO OR MORE ANCHOR @ 24" O.C. MAX.
2. WHEN FRAME LENGTH IS 12" OR LESS, PROVIDE (1) ANCHOR PER HORIZONTAL LEG, OTHERWISE PROVIDE TWO OR MORE ANCHORS @ 24" O.C. MAX.
3. PROVIDE ½" EPOXY ANCHOR EMBEDDED 4" MIN. INTO CONCRETE WHERE REQUIRED BY THIS DRAWING OR NOTES.
4. SEE OUTLET STRUCTURE DETAIL FOR TRASH RACK FRAME SIZE.

ALL STRUCTURAL STEEL SHALL BE GALVANIZED AND PAINTED FOLLOWING GALVANIZING (SEE DETAIL).

FRONT TRASH RACK DETAIL–ELEVATION VIEW

CLAY LINER SPECIFICATIONS (TYP.)

LINER THICKNESS = 4 FEET
IN PLACE HYDRAULIC CONDUCTIVITY = 1 X 10–7 CM/SEC OR LESS
MINIMUM OF 50% BY WEIGHT WHICH PASSES THE 200 SIEVE
AVERAGE LIQUID LIMIT OF 25 OR GREATER, NONE LESS THAN 20
AVERAGE PLASTICITY INDEX OF 12 OR GREATER, NONE LESS THAN 10

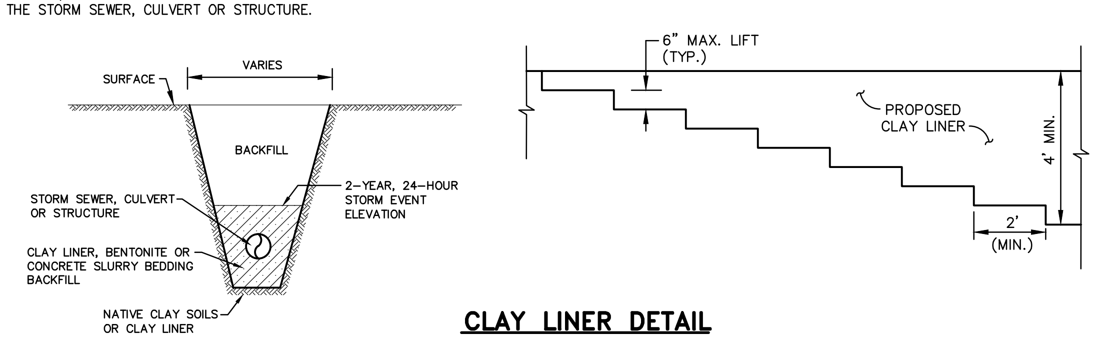
ALL CLAY LAYERS IN THE LINER TO BE CONSTRUCTED IN LIFT HEIGHTS NO GREATER THAN 6 INCHES AFTER COMPACTION USING FOOTED COMPACTION EQUIPMENT HAVING FEET AT LEAST AS LONG AS THE LOOSE LIFT HEIGHT. CLAY IS TO BE DISKED OR OTHERWISE MECHANICALLY PROCESSED BEFORE COMPACTION TO BREAK UP CLODS AND ALLOW FOR MOISTURE ADJUSTMENT. CLOD SIZE TO BE NO GREATER THAN 4 INCHES.

A SUFFICIENT NUMBER OF PASSES OF THE COMPACTION EQUIPMENT IS TO BE MADE OVER EACH LIFT OF CLAY TO ENSURE COMPLETE REMOLDING OF THE CLAY.

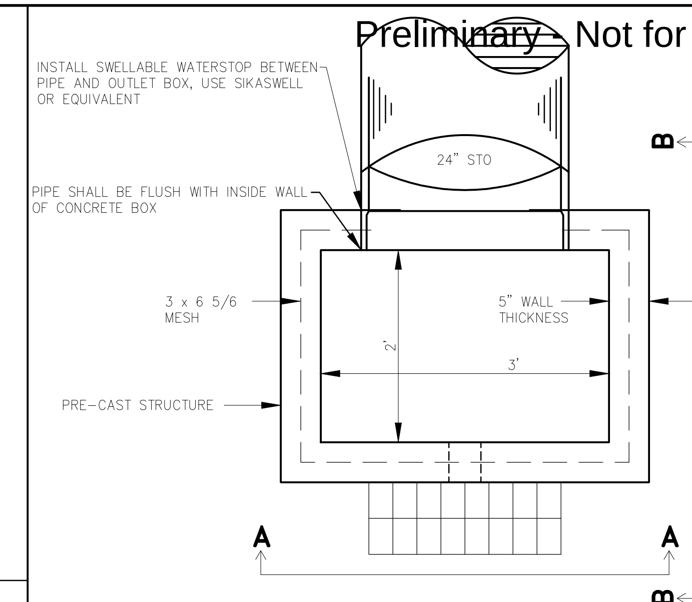
ALL CLAY TO BE COMPACTED TO 90% MODIFIED OR 95% STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT OF AT LEAST 2% WET OF OPTIMUM IF USING THE MODIFIED PROCTOR METHOD AND WET OF OPTIMUM IF USING THE STANDARD PROCTOR METHOD, BASED ON THE CHARACTERISTICS OF THE APPROPRIATE PROCTOR CURVE FOR THE CLAY BEING PLACED. THE CLAY LINER IS TO BE KEYED TOGETHER TO FORM A CONTINUOUS CLAY SEAL, SEE DETAIL.

CLAY LINER SHALL BE PLACED OVER NATIVE SOILS THAT DO NOT SATISFY THE CLAY LINER SPECIFICATIONS. A GEOTECHNICAL ENGINEER SHALL DETERMINE WHICH SOILS DO NOT SATISFY THE CLAY LINER SPECIFICATIONS. THE GEOTECHNICAL ENGINEER SHALL INSPECT SOILS WITHIN THE PERMANENT POOL AND UP TO THE POND'S 2–YEAR, 24–HOUR WATER SURFACE ELEVATION. UPON COMPLETION OF THE LINER, A GEOTECHNICAL ENGINEER REGISTERED IN WISCONSIN SHALL PROVIDE A LETTER OF OPINION INDICATING IF THE CLAY LINER SATISFIES THESE SPECIFICATIONS.

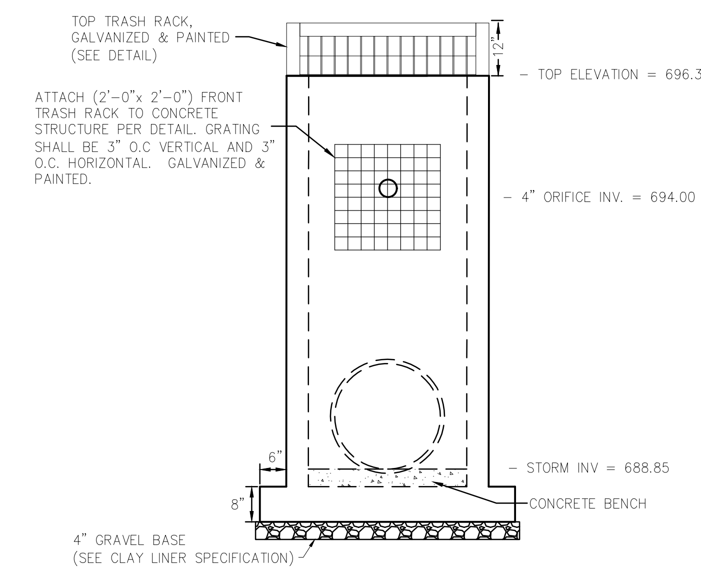
WHERE STORM SEWER, CULVERT OF OTHER STRUCTURE PASSES THROUGH NATIVE CLAY OR CLAY LINER, THE CONTRACTOR SHALL INSTALL CLAY LINER, BENTONITE OR CONCRETE SLURRY (2.0 BAG/C.Y. MIX) BEDDING IN LIEU OF GRAVEL BEDDING & BACKFILL. THE LINER & BENTONITE OR SLURRY SHALL MINIMIZE SEEPAGE ALONG THE OUTSIDE WALL OF THE STORM SEWER, CULVERT OR STRUCTURE INLCUDING AT THE PIPE JOINT TIE HOLES AND PIPE JOINTS. IF BENTONITE IS USED, THE BENTONITE SHALL BE POSITIONED BETWEEN PIPE JOINTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE BEDDING SUPPORT FOR THE STORM SEWER, CULVERT OR STRUCTURE.



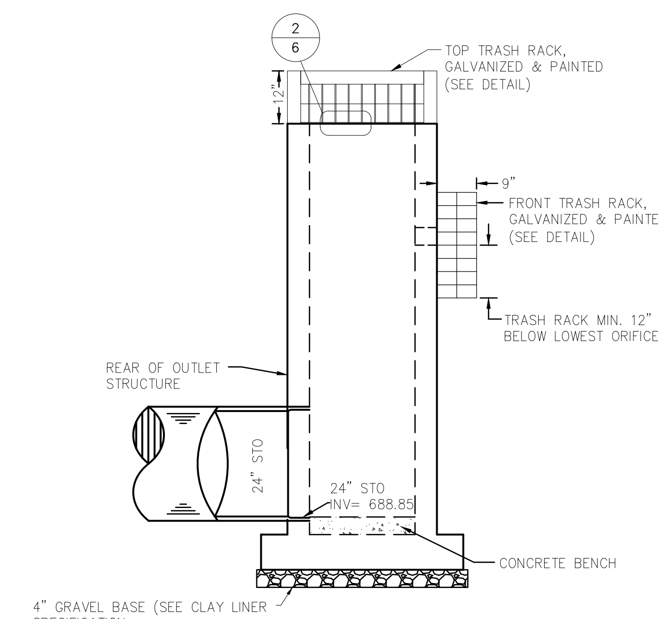
CLAY LINER DETAIL



PLAN VIEW



FRONT VIEW SECTION A–A



SIDE VIEW SECTION B–B

POND OUTLET STRUCTURE

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NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
MISCELLANEOUS DETAIL

DESIGNED	DRAWN
AWS	AWS

PROJECT NO. K0006–092200453
DATE NOV., 2022
SHEET NO. 06

gschmidt, W:\PROJECTS\K0006\092200453\CADD\Civil3D\Plan Sheets\00 Title–Notes–Details.dwg, 06 miscellaneous detail, Plot Date: 7/20/2023 11:18 AM, xrefs:none

Item 2.a.

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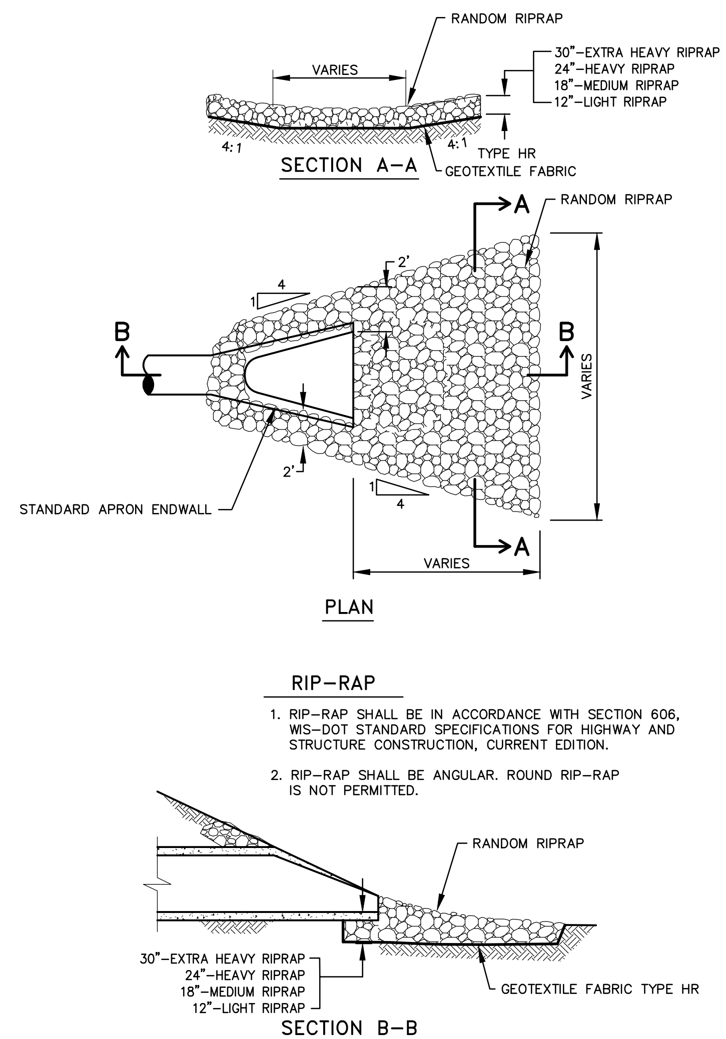


RIP–RAP

1. RIP–RAP SHALL BE IN ACCORDANCE WITH SECTION 606, WIS–DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
2. RIP–RAP SHALL BE ANGULAR. ROUND RIP–RAP IS NOT PERMITTED.

RIPRAP AT STORM SEWER OUTFALL

GENERAL NOTES

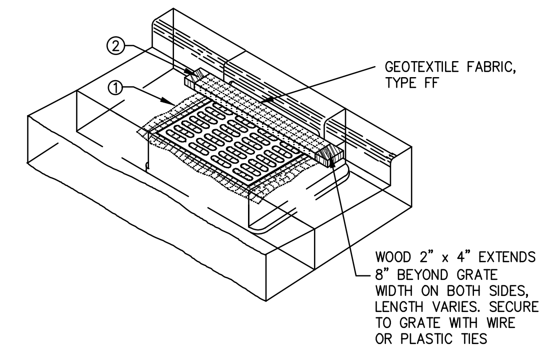
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

(1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

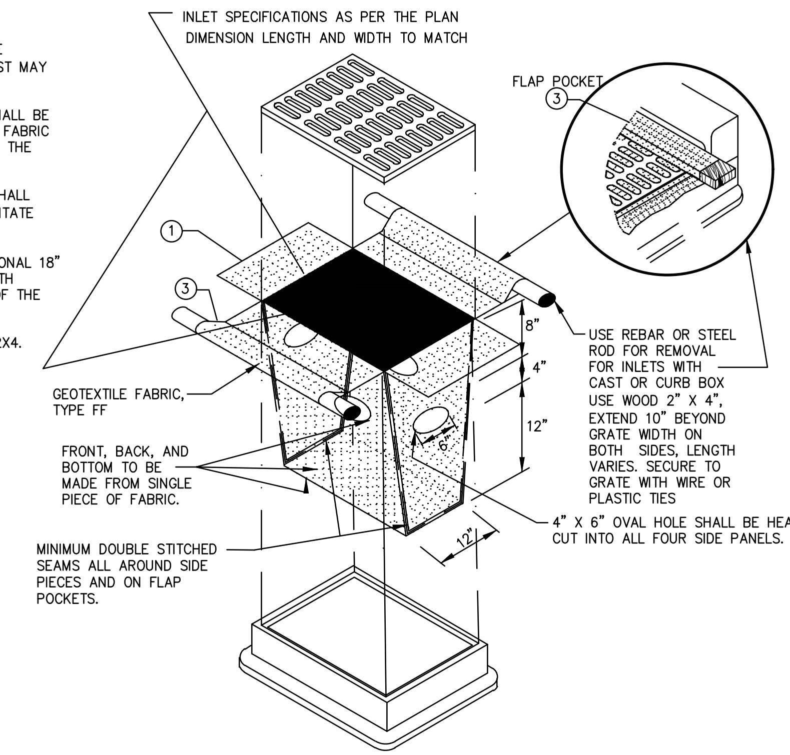
(2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

(3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C

(WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE (2))

INSTALLATION NOTES

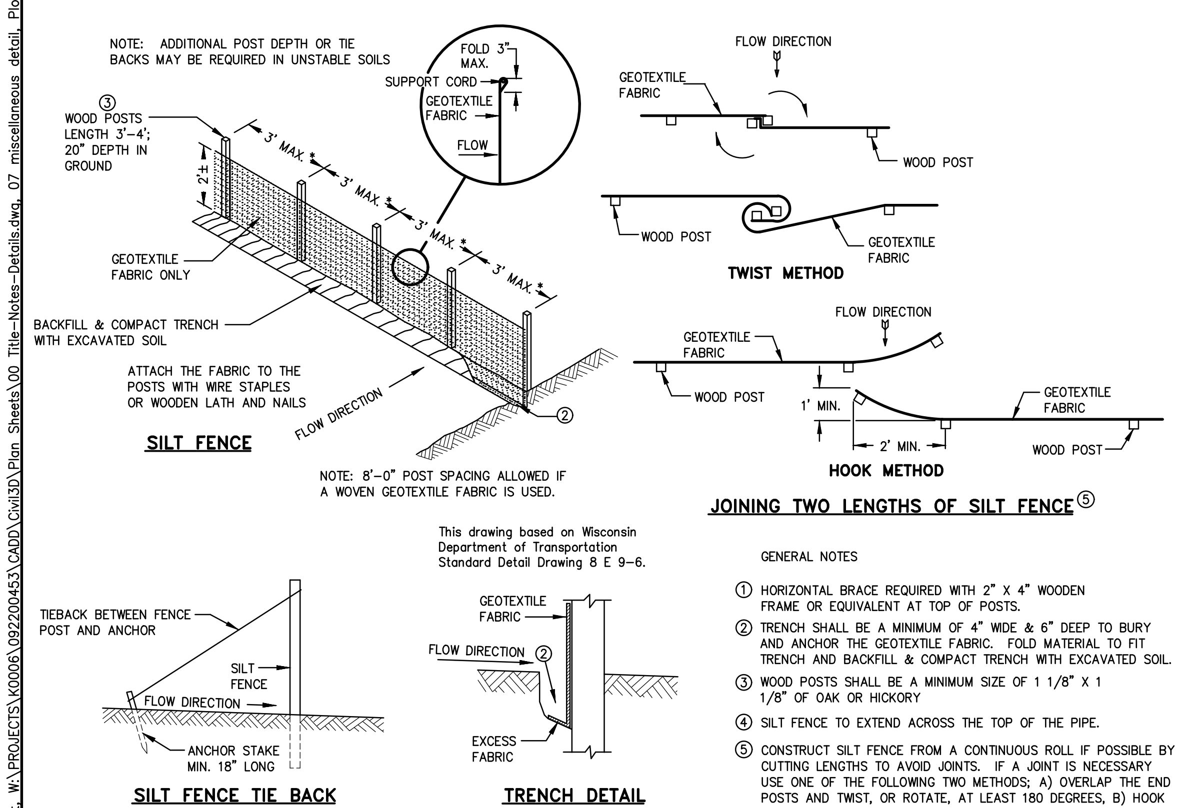
TYPE C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

STORM DRAIN INLET PROTECTION

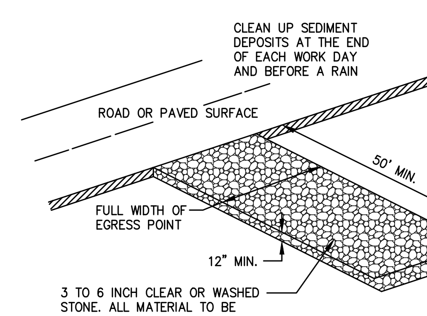


This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9–6.

GENERAL NOTES

(1) HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
(2) TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
(3) WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY
(4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
(5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

SILT FENCE DETAIL



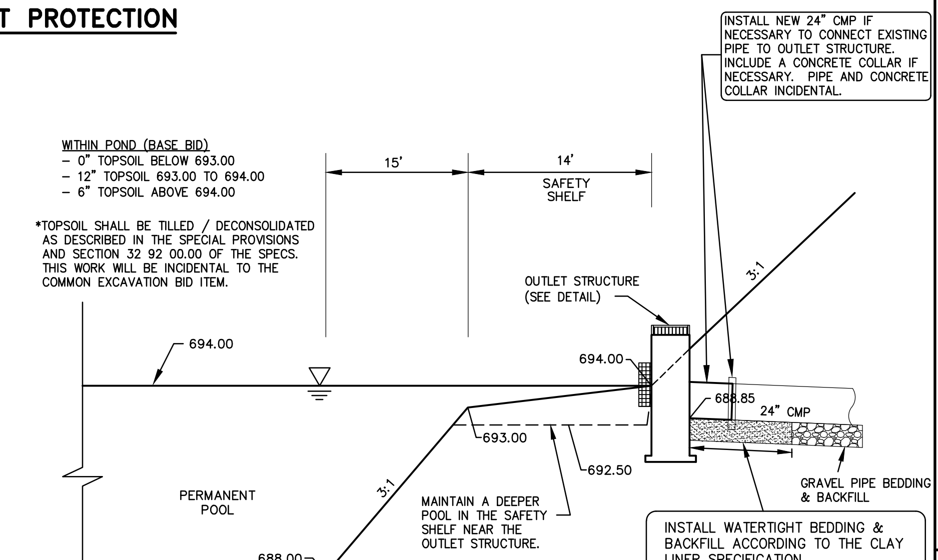
1. DIVERT FLOW AWAY FROM TRACKING PAD USING CULVERTS, SHALLOW TRENCH OR DIVERSION DAM.
2. ROCKS LODGED BETWEEN THE TIRES OF DUAL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE SITE.
3. ON SITES WITH A HIGH WATER TABLE OR SATURATED SOILS, INSTALL A DOT TYPE R GEOTEXTILE FABRIC UNDER STONE TRACKING PAD.

*** MANUFACTURED TRACKOUT CONTROL DEVICE PER WDNR TECHNICAL STANDARD 1057 MAY BE USED.**

TRACKOUT CONTROL

WITHIN POND (BASE BID)
– 0" TOPSOIL BELOW 693.00
– 12" TOPSOIL 693.00 TO 694.00
– 6" TOPSOIL ABOVE 694.00

*TOPSOIL SHALL BE TILLED / DECONSOLIDATED AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 32 92 00.00 OF THE SPECS. THIS WORK WILL BE INCIDENTAL TO THE COMMON EXCAVATION BID ITEM.



POND CROSS–SECTION

NOTE: ALL ELEVATIONS ARE TO FINISHED GRADE

* SEE CLAY LINER SPECIFICATION.

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MISCELLANEOUS DETAIL

DESIGNED	DRAWN
AWS	AWS

PROJECT NO. K0006–092200453

DATE NOV., 2022

SHEET NO. 07