

BEAVER DAM LAKE MANAGEMENT DISTRICT LIBRARY LAKE SW STORMWATER WETLAND CUMBERLAND, BARRON COUNTY, WISCONSIN

DEREK R. LASH
E-40938
CRYSTAL LAKE, MN
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

DATE: 9/29/17
REG. NO. 40938
MY LICENSE RENEWAL DATE IS 7/31/2018
PAGES OR SHEETS COVERED BY THIS SEAL: ALL SHEETS

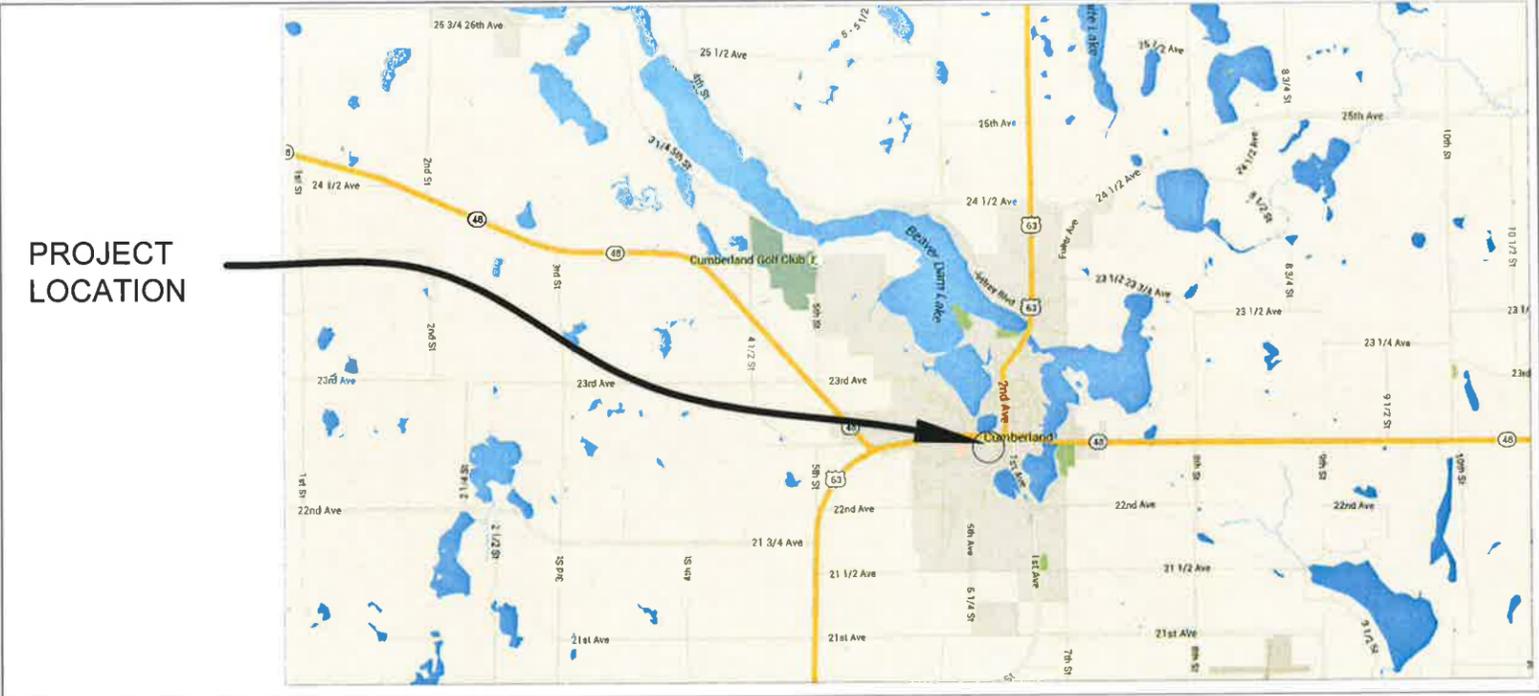
BRITTA M. HANSEN
LA-73614
SAINT PAUL, MN
LANDSCAPE ARCHITECT

I HEREBY CERTIFY THAT THE PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN.

DATE: 9/29/17
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PAGES OR SHEETS COVERED BY THIS SEAL:

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*THIS PLAN SET CONTAINS 12 PLAN SHEETS.



PROJECT LOCATION

FEATURE	EXISTING	PROPOSED
SILT FENCE		~ ~ ~ ~ ~
CONSTRUCTION FENCE		~ ~ ~ ~ ~
DELINEATED WETLAND	~ ~ ~ ~ ~	~ ~ ~ ~ ~
WATERLINE/ShORELINE	~ ~ ~ ~ ~	~ ~ ~ ~ ~
OVERHEAD ELECTRIC LINES	E-O	
BURIED ELECTRIC LINES	E-U	
FIBER OPTIC LINES	FO	
GAS LINES	G	
PIPELINE	PL	
OVERHEAD TELEPHONE	T-O	
BURIED TELEPHONE	T-U	
TELEPHONE MANHOLE	T-U	○
TELEPHONE CABLE PEDESTAL	T-U	□
OVERHEAD CABLE TV	TV-O	
BURIED CABLE TV	TV-U	
TV CABLE PEDESTAL	TV-U	□
SANITARY SEWER LINE	---FM---	---FM---
SANITARY SEWER FORCEMAIN	---FM---	---FM---
SANITARY SEWER MANHOLE	○	○
STORM SEWER LINE	---FM---	---FM---
STORM SEWER CULVERT	---FM---	---FM---
STORM SEWER FORCEMAIN	---FM---	---FM---
STORM SEWER MANHOLE	○	○
WATERMAIN	---FM---	---FM---
WATERMAIN MANHOLE	○	○
HYDRANT	○	○
WATER VALVE	○	○



GOVERNING SPECIFICATIONS

THE 2017 EDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

EXISTING UTILITIES

THE LOCATION OF UNDERGROUND FACILITIES AND/OR STRUCTURES AS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORD AT THE TIME THE PLANS WERE PREPARED AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE SUBSURFACE UTILITY INFORMATION SHOWN IS UTILITY QUALITY LEVEL D, AS DETERMINED USING THE GUIDELINES OF "CIASCE 38-02 STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE THE EXACT LOCATION OF ALL FACILITIES AND TO PROVIDE ADEQUATE PROTECTION OF SAID UTILITIES DURING THE COURSE OF WORK.

CONSTRUCTION NOTE

CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN OPERATION OF EXISTING UTILITIES THROUGHOUT THE DURATION OF THE PROJECT. IN THE EVENT THAT AN INTERRUPTION OF SERVICE IS UNAVOIDABLE IN ORDER TO COMPLETE THE WORK, CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION TO ALL AFFECTED BUSINESSES A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF ANY INTERRUPTION.

DIGGERS HOTLINE

WISCONSIN STATUTE 182.0175 REQUIRES EVERY EXCAVATOR AND EVERYONE RESPONSIBLE FOR PLANNING NON-EMERGENCY EXCAVATIONS TO PROVIDE ADVANCE NOTICE OF AT LEAST THREE BUSINESS DAYS TO THE ONE CALL SYSTEM. SEE THE STATE STATUTE FOR THE DEFINITION OF EXCAVATION. DIGGERS HOTLINE NEEDS TO BE CONTACTED PRIOR TO EXCAVATION AND PLANNING AN EXCAVATION IN ORDER TO COMPLY WITH THE STATE STATUTE.

DIGGERS HOTLINE SHOULD ALSO BE USED TO OBTAIN INFORMATION ON SAFE WORKING CLEARANCES FROM OVERHEAD LINES. OSHA REQUIRES THAT YOU STAY AT LEAST 10 FEET AWAY FROM DISTRIBUTION LINES AND UP TO 16 FEET AWAY FROM TRANSMISSION LINES WITH EXCAVATORS, BACK-HOES, WHEEL LOADERS, DIGGER DERRICKS USED FOR AUGURING HOLES, AND SETTING POLES IN TELECOMMUNICATIONS AND ELECTRICAL WORK, ETC. THE 2010 OSHA CRANE STANDARD REQUIRES ADDITIONAL RESTRICTIONS FOR OTHER TYPES OF CRANES OR HOISTING DEVICES.

SEE THE EXCAVATOR'S GUIDE TO DIGGERS HOTLINE FOR ADDITIONAL INFORMATION.

CONTACTING DIGGERS HOTLINE

BY PHONE: DIGGERS HOTLINE IS AVAILABLE 24 HOURS A DAY, 7 DAYS A WEEK, 365 DAYS A YEAR BY CALLING THE THREE-DIGIT CODE 811 OR BY CALLING (800) 242-8511. TDD USERS MAY CALL (800) 542-2289.

BY EMAIL: ON THE DIGGERS HOTLINE WEBSITE, WWW.DIGGERSHOTLINE.COM, YOU CAN EMAIL LOCATE REQUESTS TO THE CALL CENTER, TO ACCESS THE ONLINE EMAIL FORM, GO TO DIGGERS HOTLINE WEBSITE, WWW.DIGGERSHOTLINE.COM.

CLIENT
BEAVER DAM LAKE MANAGEMENT DISTRICT
PO BOX 232
CUMBERLAND, WISCONSIN 54829

ENGINEER
EMMONS & OLIVIER RESOURCES, INC.
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OAKDALE, MINNESOTA 55128
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Plot Date: 09/28/2017
 Drawing Name: E:\Projects\092917_Beaver Dam Lake\Asst0916_Library_Lake_SWM\Wetland09_GMS_Project\Name.dwg
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3	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION
2	09-06-2017	BH	100% PLAN SET - ADDENDUM NO. 01
1	08-25-2017	SLP	100% PLAN SET - FOR BID

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DEREK R. LASH
DATE: 09-29-2017
LICENSE # 40938-5

SUBMISSION DATE: 09-29-2017

DESIGN BY: SLP DRAWN BY: BH

WOR
ecology
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CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE SW STORMWATER WETLAND
CUMBERLAND, BARRON COUNTY, WISCONSIN

TITLE SHEET
SHEET 01 OF 12 SHEETS

Statement of Estimated Quantities

Item No.	Item Code	Item	Unit	Estimated Quantity	As-Built Quantity
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Part 1 - General/Erosion Control

1	619.1000	MOBILIZATION	LS	1	
2	643.0100	TRAFFIC CONTROL	EA	1	
3	643.2000	TRAFFIC CONTROL DETOUR	EA	1	
4	628.1504	SILT FENCE	LF	1079	
5	628.7504	SEDIMENT CONTROL LOG, TYPE WOOD FIBER - INSTALL, MAINT., REMOVAL	LF	230	
6	SPECIAL	TEMPORARY TREE PROTECTION FENCE	LF	97	
7	628.7560	STABILIZED CONSTRUCTION EXIT - INSTALL, MAINT., REMOVAL	EA	1	
8	628.7010	STORM DRAIN INLET PROTECTION - INSTALL, MAINT., REMOVAL	EA	5	
9	SPECIAL	ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES	ALLOW	1	

Part 2 - Removals

10	201.0110	CLEAR AND GRUB (+/- 25 TREES)	SY	3035	
11	204.0210	REMOVE EXISTING MANHOLE	EA	1	
12	204.0215	REMOVE EXISTING CB	EA	1	
13	204.0245	REMOVE EXISTING PIPE (STORM SEWER)	LS	1	
14	690.0150	SAWCUT ASPHALTIC PAVEMENT	LF	120	
15	204.0110	REMOVE ASPHALTIC SURFACE	SY	730	
16	204.0150	REMOVE CONCRETE CURB & GUTTER	LF	35	
17	204.0155	REMOVE CONCRETE SIDEWALK	SY	25	

Part 3 - Grading

18	205.0100	COMMON EXCAVATION - PLAN QUANTITY	CY	1500	
19	625.0105	TOPSOIL - 4" OVER DISTURBED AREAS	CY	417	
20	606.0200	RIPRAP, MEDIUM (FOR BERMS - INC. GEOTEXTILE)	CY	60	

Part 4 - Storm Sewer

21	SPECIAL	CONNECTION TO EXISTING STORM SEWER	EA	1	
22	611.0410	RECONSTRUCT EXISTING CB	EA	1	
23	611.0000	ST MANHOLE 1 - 48" DIA.	EA	1	
24	611.2006	ST MANHOLE 2 - 84" DIA. W/SUMP	EA	1	
25	611.2005	ST MANHOLE 3 - 60" DIA. LOW FLOW DIVERTER	EA	1	
26	612.0000	30" RCP STORM SEWER - CLASS IV	LF	125	
27	612.0000	15" RCP STORM SEWER - CLASS IV	LF	15	
28	612.0000	12" RCP STORM SEWER - CLASS IV	LF	30	
29	612.0000	30" HDPE BYPASS PIPE	LF	50	
30	611.0500	MANHOLE COVER - NEENAH FRAME & CASTING	EA	3	
31	611.0600	INLET COVER - NEENAH	EA	1	
32	SPECIAL	SEDIMENT CHAMBER, 6020 WQU	EA	1	
33	SPECIAL	ANTI-BUOYANCY ANCHORING	EA	1	
34	SPECIAL	24" DIA. HDPE RISER PIPE	EA	2	
35	611.0530	NYLOPLAST MH INSERT	EA	2	
36	SPECIAL	30" FLARED END SECTION W/ TRASH GUARD	EA	1	
37	606.0200	RIPRAP, MEDIUM (W FILTER FABRIC) AT F.E.S.	CY	8	
38	SPECIAL	OUTLET STRUCTURE (2x48" DIA. STMH AND FRAME & CASTINGS, 30" RCP, RIPRAP)	EA	1	

Part 5 - Restoration

39	350.0115	SUBBASE - PREP, COMPACTION, TEST ROLL, AGG. BASE (12")	SY	730	
40	465.0110	ASPHALTIC SURFACE PATCHING (4.25" NOM. THICKNESS)	TON	173	
41	646.0100	PAVEMENT MARKINGS - PAINT, YELLOW	LF	200	
42	602.0400	CONCRETE SIDEWALK - 4"	SY	25	
43	601.0300	CONCRETE CURB	LF	80	
44	630.0175	SEED - WI CP MIX 25 WET MESIC (MATERIAL & INSTALLATION)	LB	3	
45	630.0400	SEED - NURSE CROP (MATERIAL & INSTALLATION)	LB	63	
46	630.0175	SEED - WISDOT MIX 40 (MATERIAL & INSTALLATION)	LB	12	
47	628.2002	EROSION MAT - CLASS I, TYPE A (NET-FREE)	SY	1423	
48	628.6505	SOIL STABILIZER - TYPE A	ACRE	0.48	
49	632.0101	DECIDUOUS TREE - #10 CONT.	EA	8	
50	632.0101	DECIDUOUS TREE - 1.5" B&B	EA	7	
51	632.0101	DECIDUOUS TREE - 2" B&B	EA	11	
52	632.0201	DECIDUOUS SHRUB - #2 CONTAINER	EA	57	
53	632.0201	DECIDUOUS SHRUB - #5 CONTAINER	EA	21	
54	628.2031	TURF REINFORCEMENT MAT - CLASS III, TYPE A	SY	80	

GENERAL SITE WORK NOTES

- CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION BY CALLING DIGGERS HOTLINE 1-800-242-8511.
- VERIFY HORIZONTAL LOCATION AND ELEVATION WHERE A CONNECTION TO EXISTING PAVEMENT, STRUCTURE, PIPE OR OTHER SITE FEATURE IS TO BE MADE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- REFERENCE TO WI/DOT SPECIFICATIONS SHALL MEAN THE 2017 SPECIFICATIONS FOR CONSTRUCTION.
- SEE LANDSCAPE PLAN FOR TURF RESTORATION REQUIREMENTS.
- CONTRACTOR SHALL INSTALL, INSPECT, MAINTAIN AND REMOVE THE NECESSARY SIGNAGE FOR LANE CLOSURES. ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE WMUTCD. REFER TO WI-DOT DETOUR PERMIT AND DETOUR PLAN FOR MORE INFO.

GENERAL UTILITY NOTES

- CONTRACTOR SHALL CONTACT 'DIGGERS HOTLINE' (1-800-242-8511) BY AT LEAST THREE BUSINESS DAYS PRIOR TO EXCAVATION/CONSTRUCTION FOR UTILITY LOCATIONS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND INVERTS, SHOWN OR NOT SHOWN. ANY DISCREPANCY BETWEEN PLANS AND FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
- ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CUMBERLAND SPECIFICATIONS AND BUILDING PERMIT REQUIREMENTS.
- CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE APPROPRIATE SEWER, WATER AND PLUMBING PERMITS FROM THE CITY OF CUMBERLAND.
- UTILITY TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698.78 OR AASHTO T-99) FROM THE PIPE ZONE TO WITHIN THREE FEET OF THE GROUND SURFACE AND 100% STANDARD PROCTOR IN THE UPPER THREE FEET.
- FIELD ADJUST ALL CASTINGS TO MATCH FINAL GRADES.
- CONNECTION TO THE EXISTING SANITARY SEWER, STORM SEWER AND WATER REQUIRES INSPECTION BY THE CITY OF CUMBERLAND.
- CONTRACTOR SHALL NOTIFY THE CITY OF CUMBERLAND 48 HOURS IN ADVANCE OF WORKING WITHIN THE EXISTING RIGHT OF WAY. CITY INSPECTORS MUST OBSERVE ALL WORK COMPLETED WITHIN THE EXISTING RIGHT OF WAY INCLUDING REMOVAL OF EXISTING BITUMINOUS PAVEMENT, EXCAVATION OF TRENCHES, PLACEMENT OF WATER MAIN AND SANITARY SEWER, UTILITY CONNECTIONS TO EXISTING LINES, BACKFILLING AND PLACEMENT OF BITUMINOUS PAVEMENT. REFER TO WI-DOT DETOUR AND ROADWAY PERMITS FOR MORE INFORMATION AND DOT REQUIREMENTS.

CONSTRUCTION SEQUENCING NOTES

- ALL CLEARING, GRUBBING, GRADING, AND EARTHWORK TO BE COMPLETED FALL 2017. WETLAND BASINS TO BE CONSTRUCTED, SEEDED, AND STABILIZED BY OCTOBER 31, 2017.
- ALL EXCAVATION AND STORM SEWER WORK IN STREET ROW TO BE COMPLETED SPRING 2017. STREET WORK TO BE COMPLETED PRIOR TO MAY 25, 2018.
- DURATION OF STREET CLOSING FOR STORM SEWER WORK TO BE AS SHORT AS POSSIBLE. SEE DETOUR PERMIT AND TRAFFIC DETOUR PLAN (SHEET 04) FOR MORE DETAILS.

SITE REMOVAL NOTES

- BITUMINOUS PAVEMENT REMOVALS ARE TO BE MADE TO A VERTICAL SAW CUT OR TO A NEAT MILLED EDGE IN ACCORDANCE WITH WI/DOT SPECIFICATIONS.
- CONCRETE PAVEMENT, SIDEWALK, CURB & GUTTER AND OTHER POURED CONCRETE ITEMS ARE TO BE REMOVED TO AN EXISTING EXPANSION OR CONTRACTION JOINT. SAW CUT AS NECESSARY FOR A NEAT EDGE OF REMOVAL.
- SALVAGED SEWER CASTINGS AND MANHOLE SECTIONS SHALL BE CLEANED AND INSPECTED FOR DAMAGE PRIOR TO REINSTALLATION.
- ALL REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE DISPOSED OF OFF-SITE IN A MANNER MEETING ALL APPLICABLE REGULATIONS.

STORM SEWER NOTES

- STORM SEWER CONSTRUCTION IS IN ACCORDANCE WITH WI/DOT SPECIFICATIONS.
- STORM SEWER SHALL BE DUAL WALL ECOFLOW 100WT AS MANUFACTURED BY PRINSCO OR APPROVED EQUAL.
- CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE. CASTING SHALL BE AS SPECIFIED ON THE PLANS OR APPROVED EQUAL.
- MANHOLES SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH ASTM C478. CASTING SHALL BE NEENAH R-1733. MANHOLES SHALL HAVE A MINIMUM OF 2 ADJUSTMENT RINGS AND MORTAR AND A MAXIMUM OF 12" OF ADJUSTMENT RINGS AND MORTAR.
- CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY CORE DRILLING OR SAW CUTTING THE EXISTING MANHOLE AT THE PROPOSED INVERT ELEVATION. GROUT IN THE NEW PIPE AND REFORM THE INVERT.
- PIPE LENGTHS ON THE PLAN INCLUDE THE APRON SECTION.
- TIE LAST THREE STORM SEWER PIPE JOINTS AT ALL APRON SECTIONS.
- STORM SEWER CASTINGS IN THE CURB AND GUTTER SHALL BE STAKED FOR LOCATION AT THE CENTER OF CASTING AT BACK OF CURB, WITH REFERENCE STAKES ON EACH SIDE OF THE STRUCTURE AT THE BACK OF CURB. THE CONTRACTOR WILL LOCATE THE MANHOLE OR CATCH BASIN STRUCTURE AS NECESSARY FROM THESE REFERENCE POINTS. PIPE ALIGNMENTS ARE STAKED TO CENTER OF CASTING AT BACK OF CURB - CONTRACTOR WILL ADJUST THE ALIGNMENT TO FIT THE ACTUAL STRUCTURES INSTALLED.

GRADING & EROSION CONTROL NOTES

- CONTRACTOR SHALL CONTACT 'DIGGERS HOTLINE' (1-800-242-8511) BY AT LEAST THREE BUSINESS DAYS PRIOR TO EXCAVATION/ CONSTRUCTION, FOR UTILITY LOCATIONS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
- INSTALL PERIMETER EROSION CONTROL AND TREE PROTECTION MEASURES BEFORE BEGINNING SITE GRADING ACTIVITIES. SOME EROSION CONTROLS SUCH AS BALE CHECKS AND TEMPORARY SILT PONDS MAY BE INSTALLED AS GRADING OCCURS IN THE SPECIFIC AREA. MAINTAIN EROSION CONTROLS THROUGHOUT THE GRADING PROCESS AND REMOVE WHEN APPROVED.
- THE CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS PRIOR TO GENERAL SITE GRADING.
- CONTRACTOR TO ADHERE TO ALL REQUIREMENTS OF THE WISCONSIN DNR N.P.D.E.S. PERMIT, INCLUDING THE REQUIREMENT TO MINIMIZE THE AREA DISTURBED BY GRADING AT ANY GIVEN TIME AND TO COMPLETE TURF RESTORATION WITHIN THE TIME REQUIRED BY THE PERMIT AFTER COMPLETION OF GRADING OF AN AREA.
- ALL EXPOSED SOIL AREAS WITHIN 100 FEET OF A WATER OF THE STATE OR ANY STORMWATER CONVEYANCE SYSTEM WHICH IS CONNECTED TO A WATER OF THE STATE MUST BE STABILIZED WITHIN 7 DAYS (STEEPER THAN 3:1 SLOPES), 14 DAYS (10:1 TO 3:1 SLOPES), OR 21 DAYS (FLATTER THAN 10:1).
- ALL CONSTRUCTION ENTRANCES SHALL BE SURFACED WITH CRUSHED ROCK ACROSS FULL WIDTH FROM ENTRANCE POINT TO 50 FEET INTO THE CONSTRUCTION ZONE. SEE DETAIL.
- INLET PROTECTION IS TO BE USED DURING CONSTRUCTION. SEE DETAIL.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, COUNTY, STATE AND N.P.D.E.S. PERMITS.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF SILT FENCES DURING THE DURATION OF THE CONSTRUCTION.
- MAINTAIN EXISTING EROSION CONTROL AND TREE PROTECTION MEASURES. RE-ESTABLISH ANY EXISTING EROSION CONTROL DISTURBED BY CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL MEASURES AS DIRECTED.
- ANY EXCESS SEDIMENT IN PROPOSED BASINS SHALL BE REMOVED BY THE CONTRACTOR.
- REMOVE ALL EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED.
- THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS, AS DIRECTED.
- IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.
- SWEEP ADJACENT STREETS IN ACCORDANCE WITH CITY REQUIREMENTS.
- INSPECT EROSION CONTROL DEVICES AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. IMMEDIATELY REPAIR FAILED OR FAILING EROSION CONTROL DEVICES.

- SEDIMENT REMOVAL - SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT.
- ANY SEDIMENT REMAINING IN PLACE AFTER THE EROSION CONTROL DEVICE IS NO LONGER REQUIRED SHALL BE GRADED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED WITH THE APPROPRIATE SEED MIX AS DIRECTED BY THE OWNER.
- SUITABLE GRADING MATERIAL SHALL CONSIST OF ALL SOIL ENCOUNTERED ON THE SITE WITH EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL. STOCKPILE TOPSOIL AND GRANULAR FILL AT LOCATIONS DIRECTED BY OWNER.
- EXISTING GRANULAR MATERIALS SHALL BE SEGREGATED AND STOCKPILED FOR REUSE ON-SITE.
- CONTRACTOR SHALL STRIP, STOCKPILE AND RE-SPREAD EXISTING ON-SITE TOPSOIL TO PROVIDE A UNIFORM THICKNESS ON ALL DISTURBED AREAS TO BE SODDED OR SEEDED EXCEPT THE BIOINFILTRATION CELL.
- SUBGRADE EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO HELP OFFSET ANY STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES. WHEN PLACING NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROMPTLY TO AVOID UNDERMINING OF THE EXISTING PAVEMENT.
- GRADES SHOWN ARE FINISHED GRADES, CONTRACTOR SHALL ROUGH GRADE TO SUBGRADE ELEVATIONS. SUBGRADE ELEVATIONS SHALL BE INSPECTED AND APPROVED PRIOR TO PLACEMENT OF FINISH MATERIALS.
- FINAL GRADING TOLERANCES ARE ±0.1 FEET OF PLAN GRADES.
- ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF THE CONSTRUCTION SITE.
- CONTRACTOR IS RESPONSIBLE FOR GRADING AND SLOPING THE FINISHED GROUND SURFACE TO PROVIDE SMOOTH & UNIFORM SLOPES, WHICH PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING IN LOWER AREAS. CONTACT ENGINEER IF FIELD ADJUSTMENTS TO GRADING PLANS ARE REQUIRED.
- UNDER PAVEMENTS COMPACT THE UPPER THREE FEET OF SUBGRADE TO 100% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT AND 95% STANDARD PROCTOR DENSITY BELOW THE UPPER THREE FEET OF SUBGRADE. OUTSIDE OF PAVEMENT AREAS COMPACT EMBANKMENTS TO 95% STANDARD PROCTOR DENSITY.
- TURF RESTORATION IS SEEDING IN ACCORDANCE WITH THE SITE RESTORATION PLAN. ALL SEEDED AREAS ARE TO RECEIVE CLEAN STRAW MULCH AND DISC ANCHOR OR EROSION CONTROL REVEGETATIVE MAT.
- SLOPES AT 3:1 OR STEEPER, AND/OR WHERE INDICATED ON THE PLANS SHALL BE SEEDED AND HAVE A EROSION CONTROL REVEGETATIVE MAT INSTALLED OR MAY BE HYDROSEEDING WITH TACKIFER MULCH.

BIOFILTRATION CELL CONSTRUCTION SEQUENCING NOTES

- THE FOLLOWING RECOMMENDED CONSTRUCTION SEQUENCING HAS BEEN ESTABLISHED TO PROTECT THE INTEGRITY OF THE BIOFILTRATION BASIN. ANY AND ALL DEVIATIONS FROM THE PROPOSED SCHEDULE MUST BE PRE-APPROVED BY THE PROJECT ENGINEER. ABSOLUTELY NO STOCKPILING, STAGING, OR TRAFFIC IS PERMITTED WITHIN THE BIOFILTRATION BASIN AT ANY TIME.
- THE FOLLOWING INSTALLATIONS SHALL TAKE PLACE PRIOR TO THE COMMENCEMENT OF ANY WORK ONSITE:
 - PERIMETER SILT FENCE
 - CONSTRUCTION ENTRANCE
 - BIOFILTRATION CONSTRUCTION FENCE ENCLOSURE (ONLY REQUIRED IF MASS GRADING OPERATIONS TAKE PLACE AFTER SUBGRADE IS EXPOSED)
 - FOLLOWING THE COMPLETION AND ACCEPTANCE OF THESE ACTIVITIES, MASS GRADING MAY COMMENCE.
 - MASS GRADE SITE AND EXCAVATE BIOFILTRATION BASIN TO WITHIN FINISHED GRADE. DO NOT SUBCUT THE BIOFILTRATION BASIN AT THIS TIME. NOTE: GRADING OF THE BMPs SHALL BE COMPLETED USING LOW-COMPACTION EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION TO THE UNDERLYING SOILS. SMALL TRACKED DOZERS AND SKID-STEERS WITH RUBBER TRACKS ARE REQUIRED.
 - IMMEDIATELY FOLLOWING MASS GRADING, INSTALL RIPRAP AT OVERFLOW LOCATIONS.
 - PROJECT ENGINEER TO APPROVE SUBGRADE OF BIOFILTRATION BASIN PRIOR TO INSTALLATION OF PLANTING MEDIUM.



Plot Date: 09/26/2017
 Drawing Name: X:\Clients_Privale\0909_Beaver_Dam_Lake_Assoc\0016_Library_Lake_SW_Metland\08_GMS_ProjectName\dwg\090-0016_Library_Lake_SW_CD.dwg
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3	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION	
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NO	DATE	BY	REVISION	

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Derek R. Lash

DEREK R. LASH
DATE: 09-29-2017

LICENSE # 40938-6

SUBMISSION DATE:
09-29-2017

DESIGN BY SLP
DRAWN BY BH

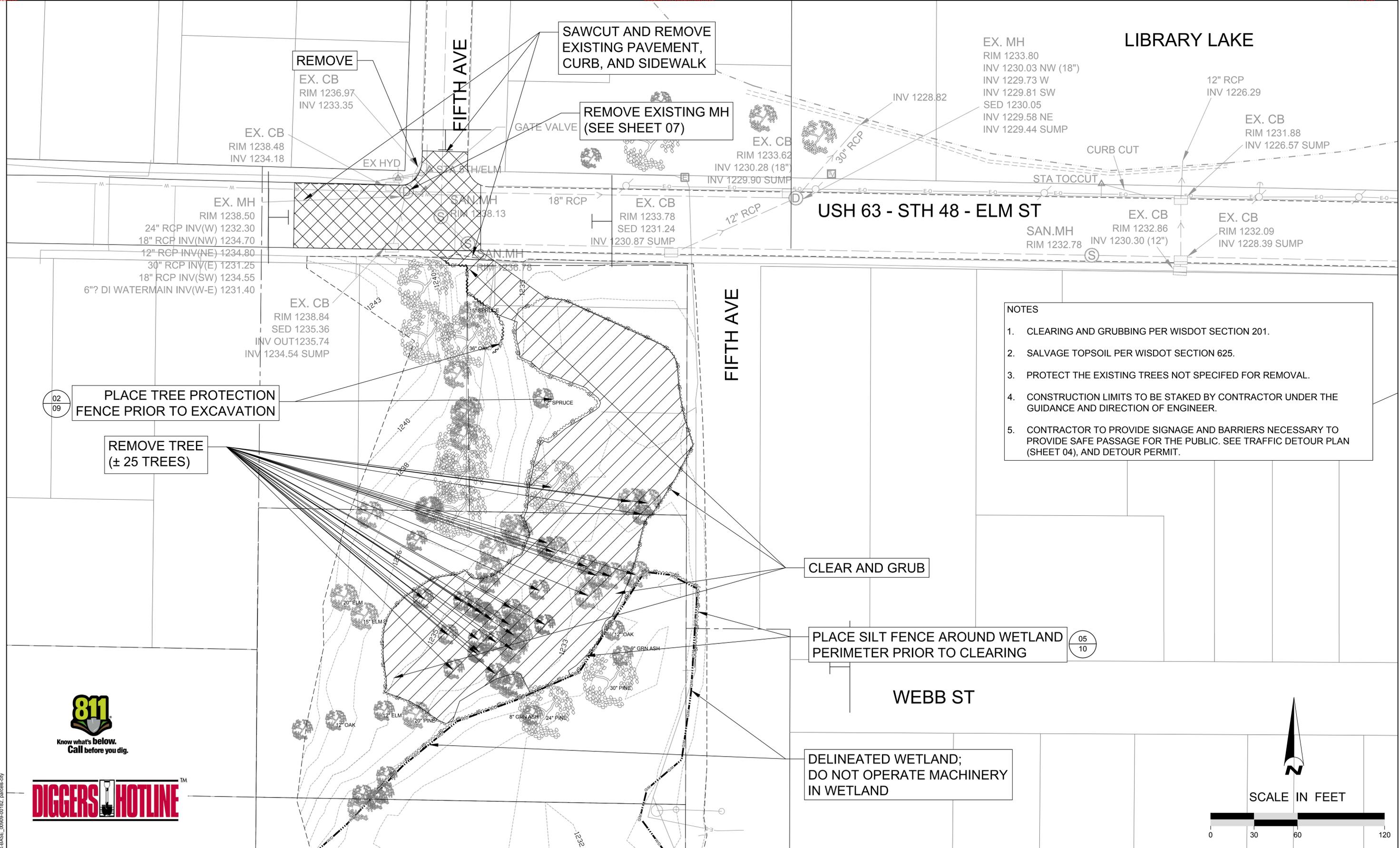
EOR PROJECT NO.
00909-0018

EOR Emmons & Olivier
Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
Tele: 651.770.8448
www.eorinc.com

**BEAVER DAM LAKE
MANAGEMENT DISTRICT**
PO BOX 232
CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE SW STORMWATER
WETLAND
CUMBERLAND, BARRON COUNTY,
WISCONSIN
STATE PROJECT NO. ---
CITY PROJECT NO. ---

SEQ & NOTES
SHEET 02 OF 12 SHEETS



- NOTES**
- CLEARING AND GRUBBING PER WISDOT SECTION 201.
 - SALVAGE TOPSOIL PER WISDOT SECTION 625.
 - PROTECT THE EXISTING TREES NOT SPECIFIED FOR REMOVAL.
 - CONSTRUCTION LIMITS TO BE STAKED BY CONTRACTOR UNDER THE GUIDANCE AND DIRECTION OF ENGINEER.
 - CONTRACTOR TO PROVIDE SIGNAGE AND BARRIERS NECESSARY TO PROVIDE SAFE PASSAGE FOR THE PUBLIC. SEE TRAFFIC DETOUR PLAN (SHEET 04), AND DETOUR PERMIT.

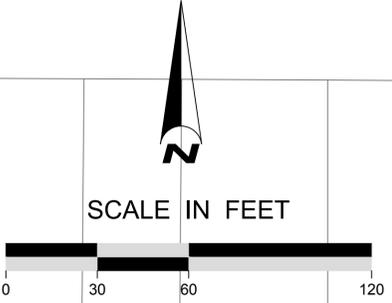
02
09
PLACE TREE PROTECTION FENCE PRIOR TO EXCAVATION

REMOVE TREE (± 25 TREES)

CLEAR AND GRUB

05
10
PLACE SILT FENCE AROUND WETLAND PERIMETER PRIOR TO CLEARING

DELINEATED WETLAND; DO NOT OPERATE MACHINERY IN WETLAND



Plot Date: 09/26/2017
 Drawing Name: X:\Clients_Privates\0909_Beaver_Dam_Lake_Assess\0016_Library_Lake_SW_Metland\08_GIMS_Project\0016_Library_Lake_SW_CD.dwg
 Xrefs: hcnmap_barron\FZ_XREFS\0909-0762_parcels.dwg

6			
5			
4			
3	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION
2	09-06-2017	BH	100% PLAN SET - ADDENDUM NO. 01
1	08-25-2017	SLP	100% PLAN SET - FOR BID
NO	DATE	BY	REVISION

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Derek R. Lash
 DEREK R. LASH
 DATE: 09-29-2017 LICENSE # 40938-6

SUBMISSION DATE: 09-29-2017
 DESIGN BY SLP DRAWN BY BH
 EOR PROJECT NO. 00909-0018

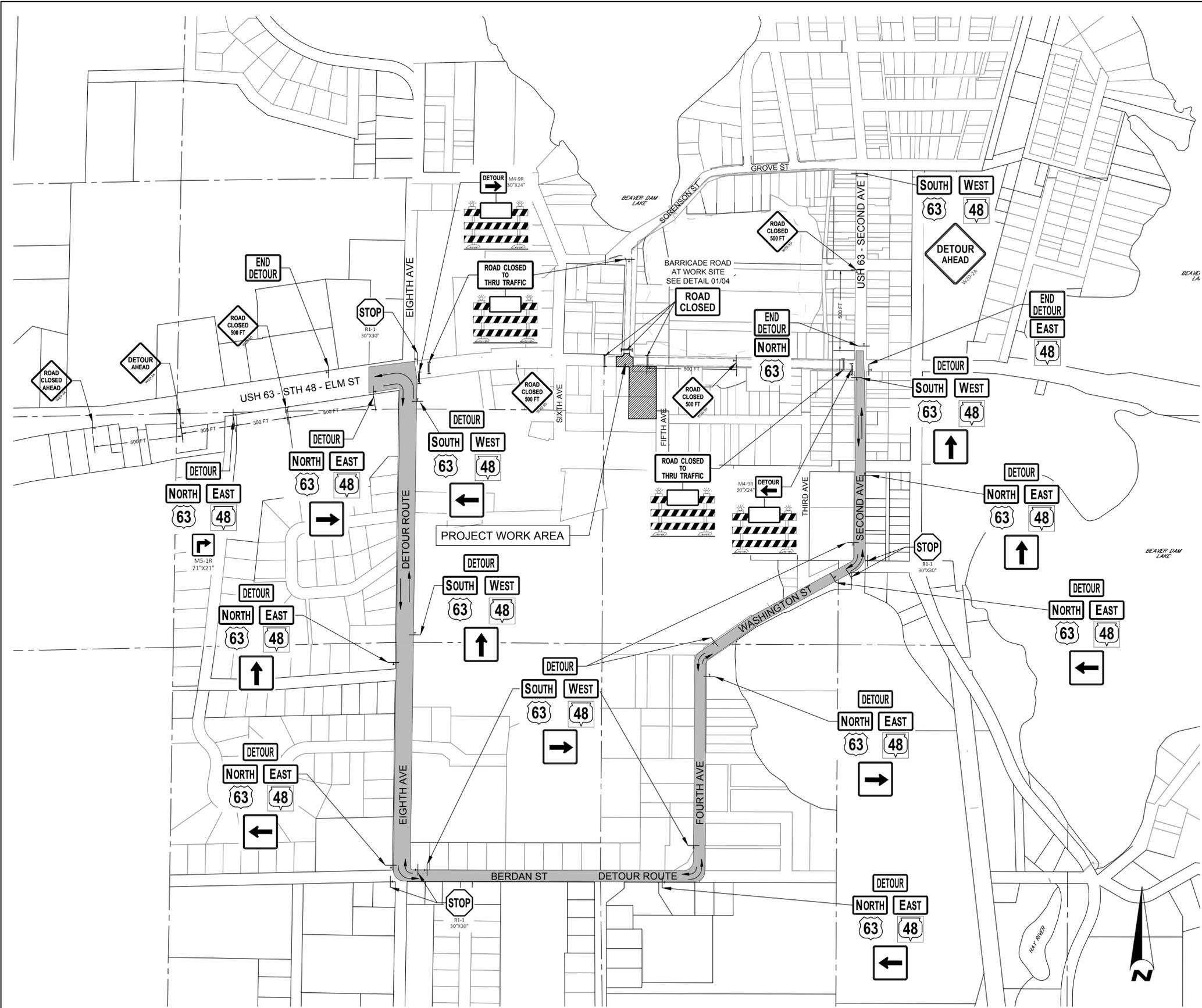
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 CUMBERLAND, WISCONSIN 54829

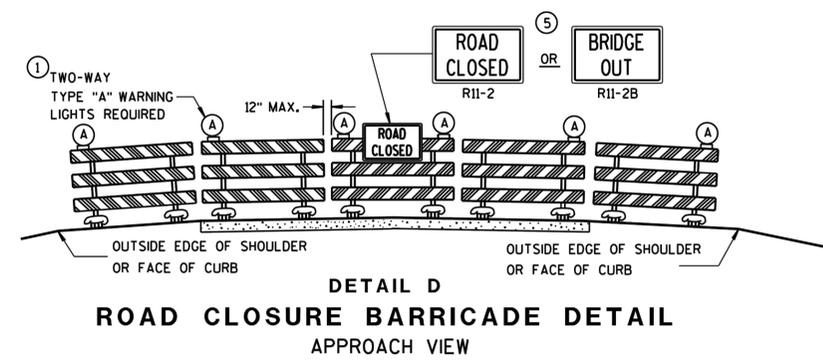
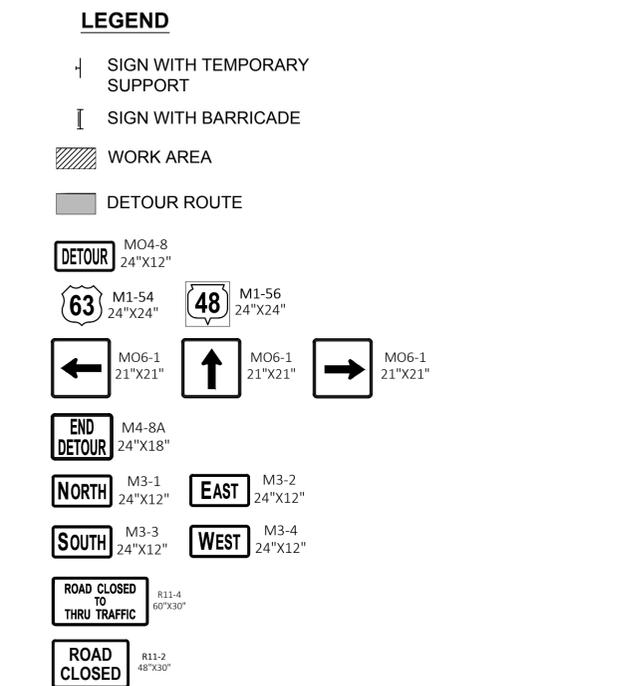
LIBRARY LAKE SW STORMWATER WETLAND
 CUMBERLAND, BARRON COUNTY, WISCONSIN

EXISTING CONDITIONS & REMOVALS
 SHEET 03 OF 12 SHEETS

Plot Date: 11/10/2017
 File Name: X:\Clients\Private\0909_Beaver Dam_Lake_Assess\01016_Library_Lake_SW_Wetland\05_GIMS_ProjectName\0909-0018_Library_Lake_SW_CD.dwg
 User: jrc\nam_baronoff-rz_xb\SLP_0909-00182_parcels-city



- MAINTENANCE OF TRAFFIC:**
- DETOUR TRAFFIC FROM HWY 63 VIA 8TH AVENUE/BERDAN STREET/4TH AVENUE/2ND AVENUE.
 - PLACE 'DETOUR AHEAD' (W20-2A) SIGNS 1,000 FEET AHEAD OF DETOUR START ON HWY 63 (WEST AND NORTH). SEE DETAIL PLAN FOR APPROACH SIGNS AND BARRICADES DETAILS.
 - REMOVE OR COVER TRUCK RESTRICTION SIGNS ALONG BERDAN STREET.
 - PLACE ALL-WAY STOP SIGNS, AT THE INTERSECTION OF 8TH & BERDAN STREETS, AND AT THE INTERSECTION OF WASHINGTON STREET & 2ND AVENUE.
 - PLACE STOP SIGNS AT SIDE ROADS THAT INTERSECT WITH DETOUR ROUTE, WHERE STOP SIGN DOES NOT CURRENTLY EXIST.
 - CITY OF CUMBERLAND TO REMOVE TRUCK RESTRICTIONS ON BERDAN ST. FOR THE DURATION OF THE DETOUR.
 - CITY OF CUMBERLAND TO RESTRICT ANGLED PARKING ON 2ND AVENUE FOR THE DURATION OF THE DETOUR.
- CONSTRUCTION ACTIVITIES TO BE COMPLETED:**
- STORM SEWER RECONSTRUCTION AT THE INTERSECTION OF USH 63/ STH 48/ ELM STREET AND 5TH AVENUE.
- GENERAL NOTES:**
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
 - THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS BE MIN. 2,000 FT, WHERE POSSIBLE.
 - SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
 - 'MO' SIGNS ARE THE SAME AS 'M' SIGNS EXCEPT THE BACKGROUND IS ORANGE.



01 WIS-DOT ROAD CLOSURE BARRICADE
 04 (No Scale) LL SW WETLAND

NO	DATE	BY	REVISION
6			
5			
4	11-10-2017	BH	100% PLAN SET - DETOUR PLAN REVISIONS
3	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION
2	09-06-2017	BH	100% PLAN SET - ADDENDUM NO. 01
1	08-25-2017	SLP	100% PLAN SET - FOR BID

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DEREK R. LASH
 DATE: 09-29-2017 LICENSE # 40938-6

SUBMISSION DATE: 09-29-2017
 DESIGN BY SLP DRAWN BY BH
 EOR PROJECT NO. 00909-0018

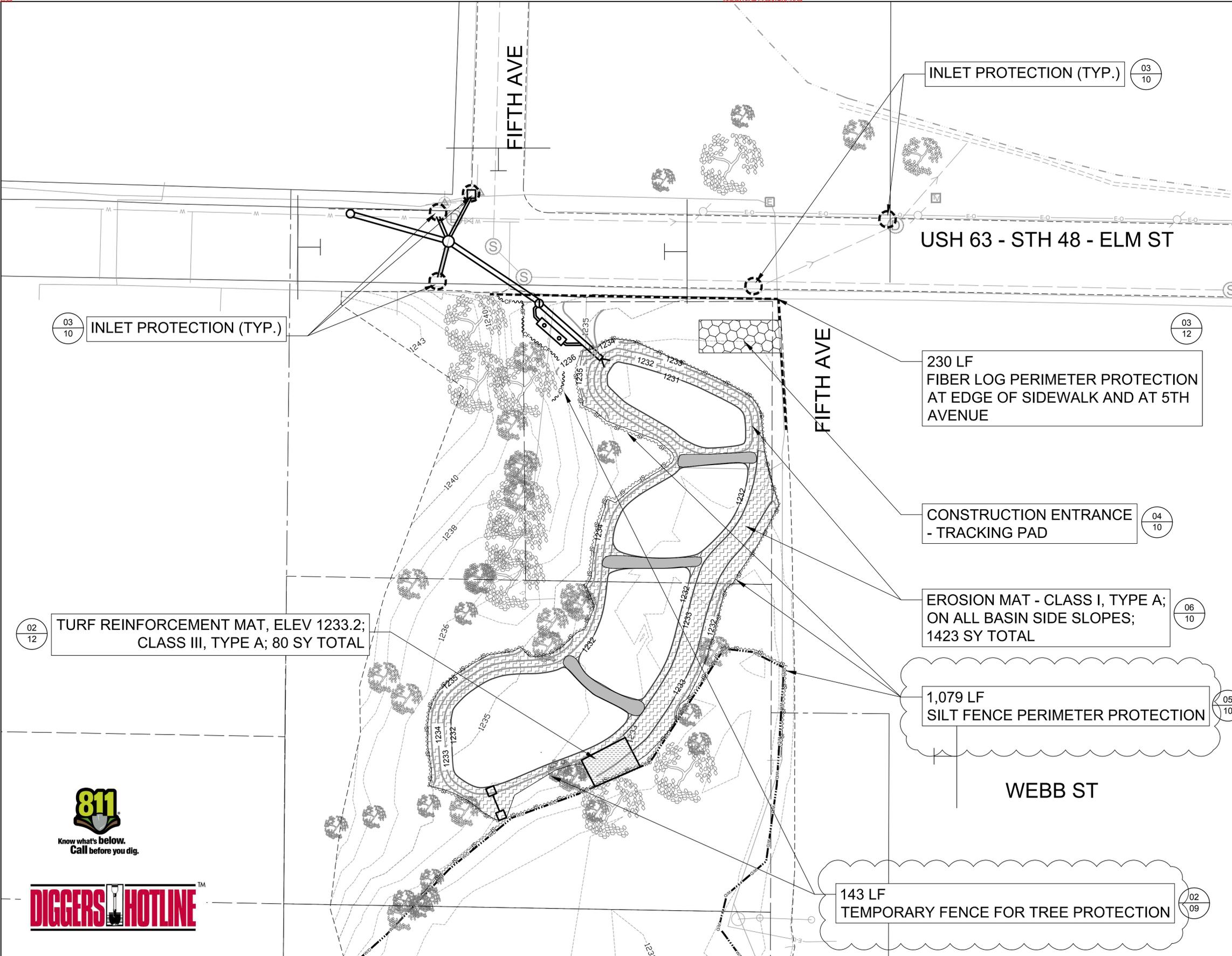
EOR Emmons & Olivier Resources, Inc.
 7030 6th Street North
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BEAVER DAM LAKE MANAGEMENT DISTRICT
 PO BOX 232
 CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE SW STORMWATER WETLAND
 CUMBERLAND, BARRON COUNTY, WISCONSIN

TRAFFIC DETOUR PLAN
 SHEET 04 OF 11 SHEETS

LIBRARY LAKE



EROSION CONTROL LEGEND

- CLASS I, TYPE A EROSION MAT
-CURLEX NETFREE, PROFILE FUTERRA ENVIRONET, OR APPROVED EQUAL
- CLASS III, TYPE A TURF REINFORCEMENT MAT
-PROPEX LANDLOK 450, OR APPROVED EQUAL
- SILT FENCE
- FIBER LOG
- INLET PROTECTION
- TREE PROTECTION FENCE

- ### EROSION CONTROL NOTES
- SILT FENCE, FIBER LOG, AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE LIFE OF THE PROJECT - INCIDENTAL TO CONTRACT.
 - STREET SWEEPING SHALL BE PERFORMED AS DIRECTED BY THE PROJECT ENGINEER - INCIDENTAL TO THE CONTRACT.

03/10 INLET PROTECTION (TYP.)

03/10 INLET PROTECTION (TYP.)

03/12

230 LF FIBER LOG PERIMETER PROTECTION AT EDGE OF SIDEWALK AND AT 5TH AVENUE

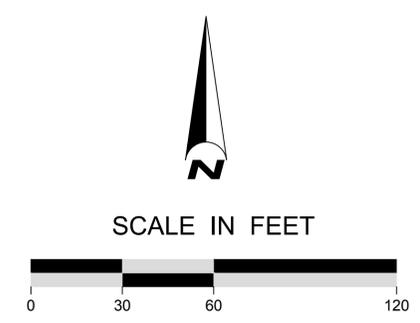
04/10 CONSTRUCTION ENTRANCE - TRACKING PAD

02/12 TURF REINFORCEMENT MAT, ELEV 1233.2; CLASS III, TYPE A; 80 SY TOTAL

06/10 EROSION MAT - CLASS I, TYPE A; ON ALL BASIN SIDE SLOPES; 1423 SY TOTAL

05/10 1,079 LF SILT FENCE PERIMETER PROTECTION

02/09 143 LF TEMPORARY FENCE FOR TREE PROTECTION



Plot Date: 09/26/2017
Drawing Name: X:\Clients\Private\0909_Beaver Dam Lake_Assess\0016_Library_Lake_SW_Metland\08_GIMS_Project\0909-0018_Library_Lake_SW_CD.dwg
Xrefs: hcrmap_barron\FR2_XBASE_0909-0018.dwg, parcels.dwg

6			
5			
4			
3	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION
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NO	DATE	BY	REVISION

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Derek R. Lash
DEREK R. LASH
DATE: 09-29-2017 LICENSE # 40938-6

SUBMISSION DATE: 09-29-2017
DESIGN BY SLP DRAWN BY BH
EOR PROJECT NO. 00909-0018

EOR Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
Tel: 651.770.8448
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BEAVER DAM LAKE MANAGEMENT DISTRICT
PO BOX 232
CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE SW STORMWATER WETLAND
CUMBERLAND, BARRON COUNTY, WISCONSIN
STATE PROJECT NO. --- CITY PROJECT NO. ---

EROSION CONTROL PLAN
SHEET 05 OF 11 SHEETS

LIBRARY LAKE

FIFTH AVE

SEE SHEET 07
(STORM SEWER
ENLARGEMENT PLAN)
FOR STORM SEWER

STA TOCCUT

USH 63 - STH 48 - ELM ST

RESTORE ALL PAVEMENT, CURB,
AND MARKINGS PER WISDOT
REQUIREMENTS

FIFTH AVE

CONSTRUCTION NOTES

1. SEE PLAN SHEET 02 FOR ADDITIONAL CONSTRUCTION NOTES.
2. CONSTRUCTION LIMITS TO BE STAKED BY CONTRACTOR UNDER THE GUIDANCE AND DIRECTION OF ENGINEER.
3. CONTRACTOR TO PROVIDE SIGNAGE AND BARRIERS NECESSARY TO PROVIDE SAFE PASSAGE FOR THE PUBLIC. SEE WISDOT DETOUR PERMIT AND TRAFFIC DETOUR PLAN (SHEET 04).
4. TYPICAL SLOPE OF 4:1 UNLESS NOTED OTHERWISE.
5. COVER ALL DISTURBED AREAS WITH 4" IMPORTED TOPSOIL. SEED AND STABILIZE PER LANDSCAPE AND EROSION CONTROL PLANS.
6. WATER TABLE ASSUMED TO BE AT 1232.00 (0.5 FT ABOVE LAKE NWL).

TOP OF BERM ELEV =
1234.0 (TYP.)

RIPRAP BERM, END
ELEVS 1233.0, 30 FT
WIDE CENTER ELEV =
1232.6

01
11

02
11

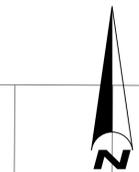
WEBB ST

REINFORCED TURF
OVERFLOW ELEV =
1233.2

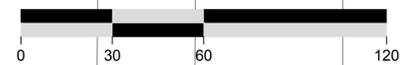
02
12

OUTLET STRUCTURE
OUTFLOW ELEV 1232.80 = NWL

02
10



SCALE IN FEET



Plot Date: 09/26/2017
Drawing Name: X:\Clients_Privale\0909_Beaver_Dam_Lake_Assoc\0016_Library_Lake_SW_Metland08_GIMS_ProjectName.dwg\09-0018_Library_Lake_SW_CD.dwg
Xrefs: hcrmap_barron\FZ_XBASE_0909-0762.parcels.dwg

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Derek R. Lash
DEREK R. LASH
DATE: 09-29-2017 LICENSE # 40938-6

SUBMISSION DATE:
09-29-2017

DESIGN BY SLP DRAWN BY BH

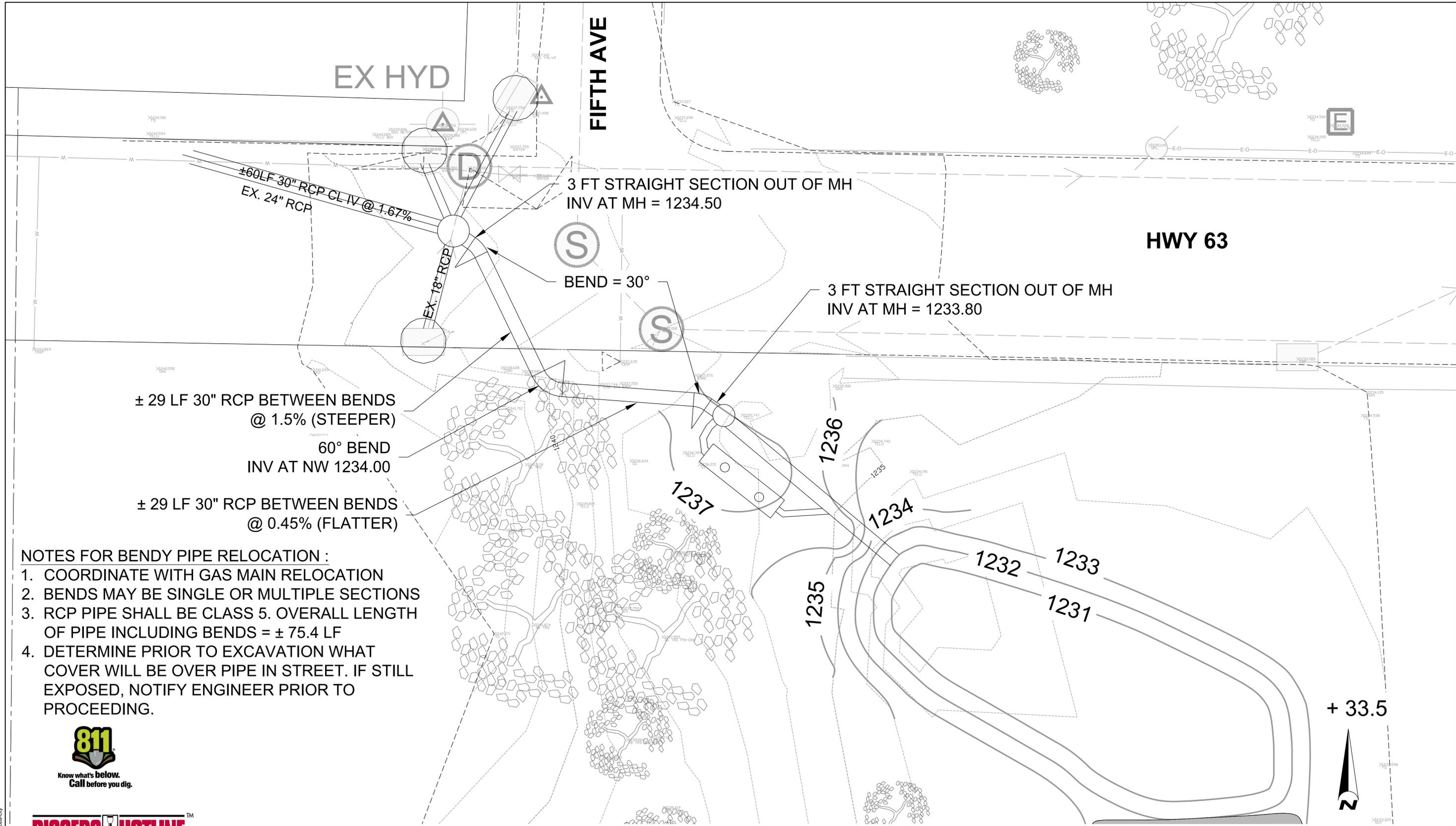
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LIBRARY LAKE SW STORMWATER
WETLAND
CUMBERLAND, BARRON COUNTY,
WISCONSIN

GRADING & DRAINAGE PLAN
SHEET 06 OF 12 SHEETS



NOTES FOR BENDY PIPE RELOCATION :

1. COORDINATE WITH GAS MAIN RELOCATION
2. BENDS MAY BE SINGLE OR MULTIPLE SECTIONS
3. RCP PIPE SHALL BE CLASS 5. OVERALL LENGTH OF PIPE INCLUDING BENDS = ± 75.4 LF
4. DETERMINE PRIOR TO EXCAVATION WHAT COVER WILL BE OVER PIPE IN STREET. IF STILL EXPOSED, NOTIFY ENGINEER PRIOR TO PROCEEDING.



Plot Date: 02/28/2018
 Drawing Name: X:\Clients_Privale\0909_Beaver_Dam_Lake_Assect\0016_Library_Lake_SW_Metland\05_GIMS_ProjectName\dwg\09-0018_LIBRARY_LAKE_SW_CD.dwg
 Xrefs: hcrmap_barron\FZ_XBASE_0909-0762.parcels.dwg

NO	DATE	BY	REVISION
6	02-28-2018	BH	REVISIONS TO STORM SEWER IN ROW
5	10-03-2017	BH	REVISIONS TO LOCATION OF ST MH 3
4	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION
3	09-06-2017	BH	100% PLAN SET - ADDENDUM NO. 01
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DEREK R. LASH
 DATE: 09-29-2017
 LICENSE # 40938-6

SUBMISSION DATE:
09-29-2017

DESIGN BY: SLP
 DRAWN BY: BH

EOR PROJECT NO.
00909-0018

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 7030 6th Street North
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 water ecology community
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BEAVER DAM LAKE MANAGEMENT DISTRICT
 PO BOX 232
 CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE SW STORMWATER WETLAND
 CUMBERLAND, BARRON COUNTY, WISCONSIN

STORM SEWER ENLARGEMENT PLAN
 SHEET 07 OF 12 SHEETS



LIBRARY LAKE

LEGEND:

-  HACKBERRY/OAK
-  RIVER BIRCH
-  TAMARACK
-  DECIDUOUS SHRUB
-  TURF SEED
WISDOT MIX 40
W/SOIL STABILIZER
-  NATIVE SEED
WI CP25 MIX(WET MESIC)
AND NURSE CROP
W/SOIL STABILIZER
OR EROSION MAT

RESTORE 4" CONCRETE SIDEWALK;
PER WISDOT REQUIREMENTS;
MATCH EXISTING DEPTH OF
CONCRETE AND BASE MATERIAL

USH 63 - STH 48 - ELM ST

FIFTH AVE

FIFTH AVE

Deciduous Tree Planting Schedule

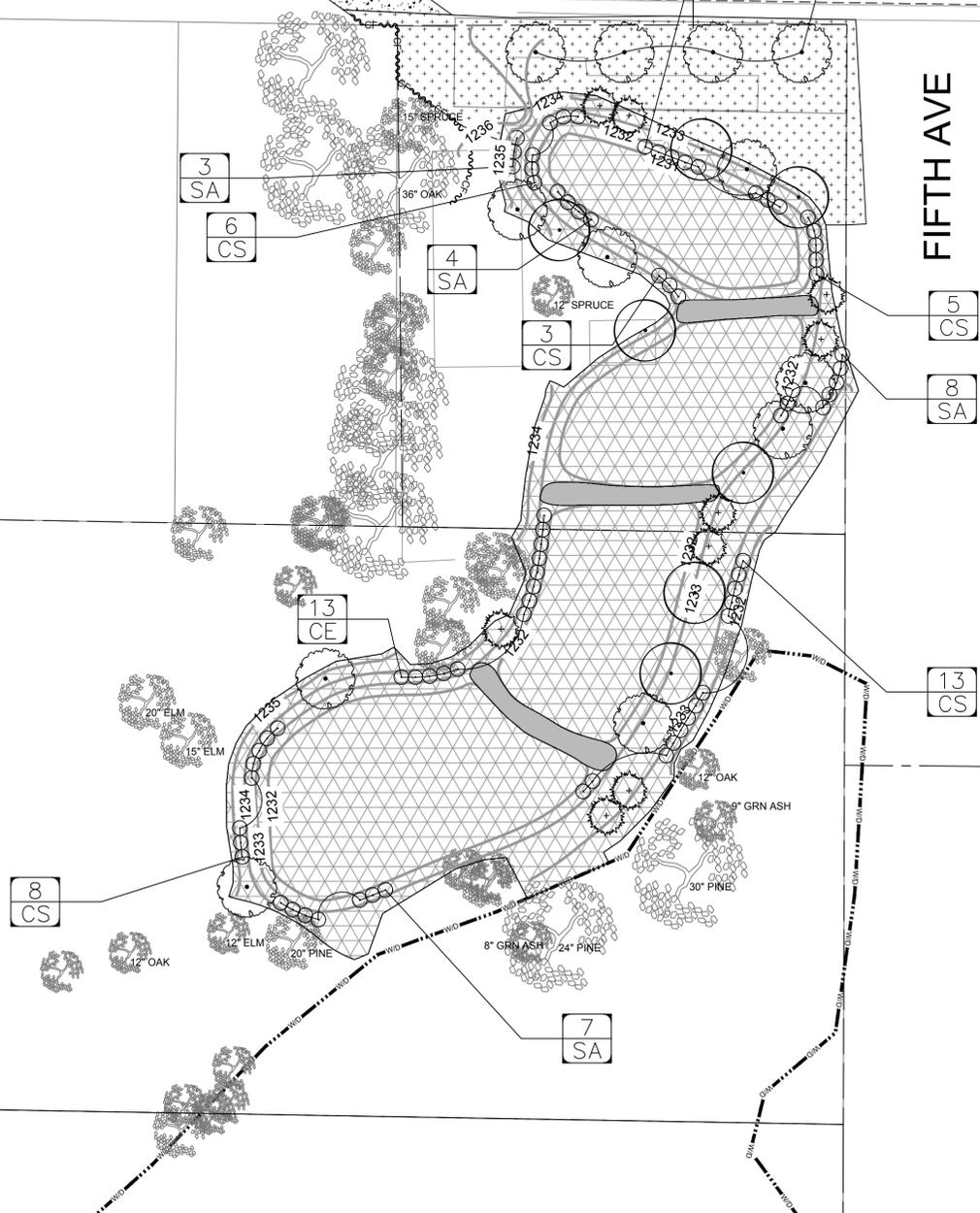
Symbol	Quantity	Scientific Name	Common Name	Size	Cont.	Type
BN	7	<i>Betula nigra</i>	River Birch	1.5"	B&B	Single Stem
CO	7	<i>Celtis occidentalis</i>	Hackberry	2"	B&B	Single Stem
LL	8	<i>Larix laricina</i>	Tamarack	#10	Cont.	Single Stem
QM	4	<i>Quercus macrocarpa</i>	Bur Oak	2"	B&B	Single Stem
	26	Tree Total				

Deciduous Shrub Planting Schedule

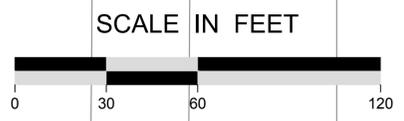
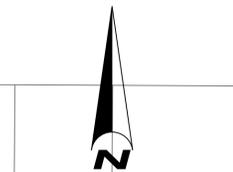
Symbol	Quantity	Scientific Name	Common Name	Size	Type	Spacing
CE	21	<i>Cephalanthus occidentalis</i>	Buttonbush	24" Height	#5 Cont.	5' O.C.
CS	35	<i>Cornus sericea</i>	Red-Twigged Dogwood	18" Height	#2 Cont.	3' O.C.
SA	22	<i>Spiraea alba</i>	Meadowsweet	18" Height	#2 Cont.	3' O.C.
	78	Shrub Total				

SEEDING NOTES

- ALL DISTURBED AREAS TO RECEIVE 4" IMPORTED TOPSOIL.
- RESTORE AREAS OUTSIDE OF WETLAND BASIN WITH TURF SEED AND HYDROMULCH SOIL STABILIZER AS SHOWN.
- SEED ENTIRE WETLAND BASIN WITH WET MESIC SEED MIX (RATE OF 3.75 LB. PER ACRE) AND NURSE CROP OF WINTER WHEAT (100 LB. PER ACRE). COVER SEED ON ALL BASIN SLOPES WITH EROSION MAT CLASS I TYPE A, AS SHOWN ON EROSION CONTROL PLAN (SHEET 05). STABILIZE SEED IN BASIN BOTTOM FLAT AREA WITH HYDROMULCH SOIL STABILIZER.
- ALL SEEDING TO BE COMPLETE BY OCTOBER 31, 2017.



WEBB ST



Plot Date: 09/26/2017
 Drawing Name: X:\Clients_Privale\0909_Beaver_Dam_Lake_Assoc\0016_Library_Lake_SW_Metland08_GIMS_Project\Name\0909-0018_LIBRARY_LAKE_SW_CD.dwg
 Xrefs: hcrmap_baroncovr-p2_xref.dwg; XBASE_0909-0018.dwg; parcels-city

NO	DATE	BY	REVISION
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5			
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Britta Han

BRITTA M. HANSEN
DATE: 09-29-2017 LICENSE # 736-14

SUBMISSION DATE:
09-29-2017

DESIGN BY: BH DRAWN BY: BH

EOR PROJECT NO.
00909-0018

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 Tele: 651.770.8448
 www.eorinc.com

BEAVER DAM LAKE MANAGEMENT DISTRICT
 PO BOX 232
 CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE SW STORMWATER WETLAND
 CUMBERLAND, BARRON COUNTY, WISCONSIN

LANDSCAPE PLAN
 SHEET 08 OF 12 SHEETS

GENERAL LANDSCAPE NOTES

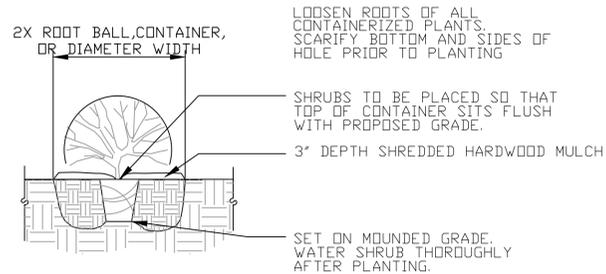
- CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
- CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
- CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
- CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
- CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF SUBSTANTIAL COMPLETION. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO SUBSTANTIAL COMPLETION SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- SYMBOLS ON PLAN DRAWING TAKE PRECEDENCE OVER SCHEDULES IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.

LANDSCAPE PLANTING NOTES

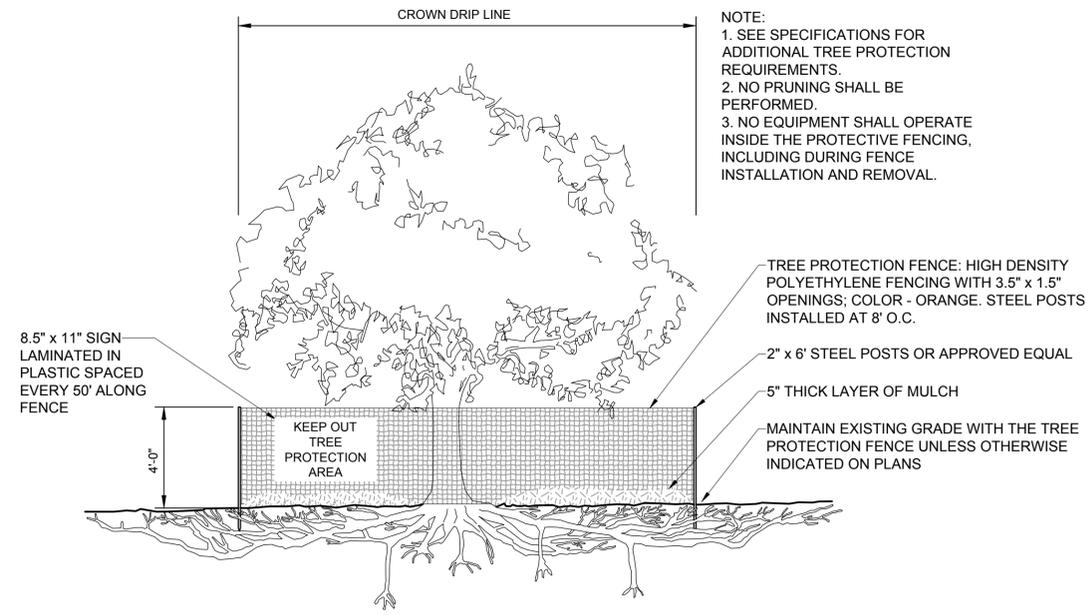
- NO PLANTS WILL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- PROPOSED PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO "V" CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' FEET ABOVE THE ROOT BALL. PROPOSED PLANT MATERIAL SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. LANDSCAPE ARCHITECT MUST APPROVE STAKING OF PLANT MATERIAL PRIOR TO DIGGING.
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS GRANTED BY THE LANDSCAPE ARCHITECT TO THE CONTRACTOR IN WRITING.
- ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO ADJUSTMENT OF PLANTS.
- PLANT MATERIALS TO BE INSTALLED PER PLANTING DETAILS.
- TREE WRAPPING MATERIAL SHALL BE TWO-WALLED PLASTIC SHEETING APPLIED FROM TRUNK FLARE TO FIRST BRANCH. WRAP SMOOTH-BARKED DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1.
- TREES AND SHRUBS ARE TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH AND SHALL HAVE NO MULCH IN DIRECT CONTACT WITH THE TRUNK OR STEMS. EXTEND MULCH IN 3' RADIUS AROUND BASE OF TREE OR SHRUB. MULCH FOR TREES AND SHRUBS IS INCIDENTAL TO THE CONTRACT.
- CONTRACTOR SHALL WARRANTY NEW PLANT MATERIAL FOR A PERIOD OF ONE (1) CALENDAR YEAR. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

SEEDING NOTES

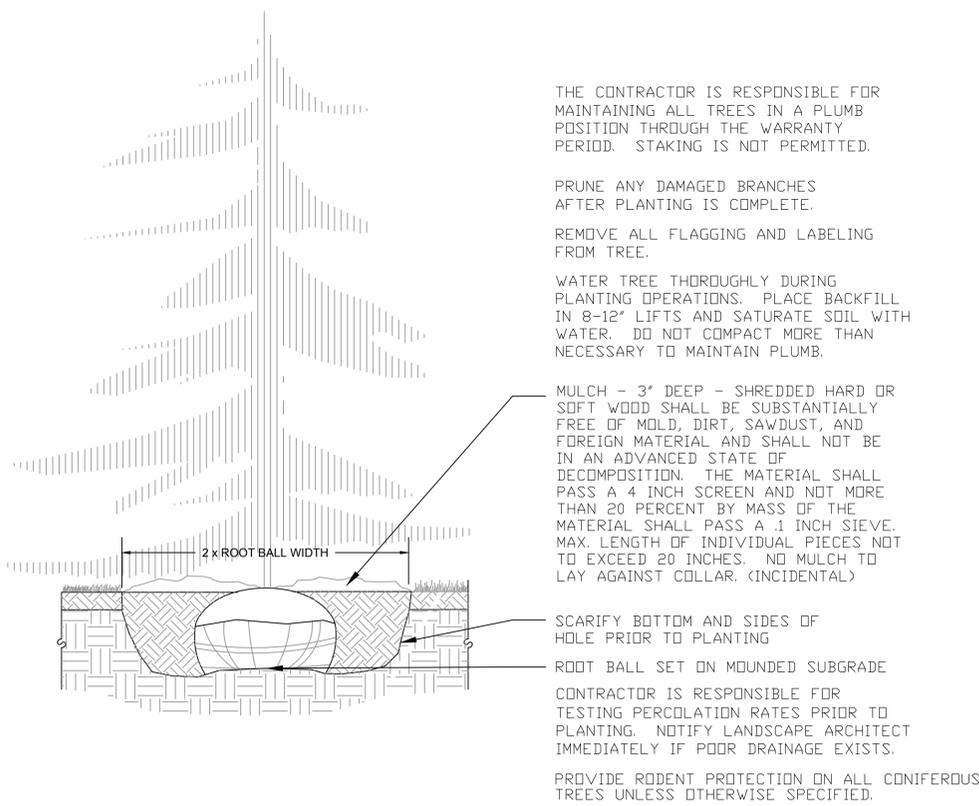
- SPREAD IMPORTED TOPSOIL AND PREPARE SEED BED PER WISDOT SPEC. SECTION 630. APPLY SEED WITH SOIL STABILIZER TYPE A, BONDED FIBER MATRIX @ 3,000 LB/ACRE, AND/OR EROSION CONTROL BLANKET, AS SHOWN ON EROSION CONTROL PLAN.
- APPLY WJ CP25 SEED MIX (WET MESIC) AT A RATE OF 3.75 LB/AC ALONG WITH A COVER CROP OF ANNUAL OATS OR WINTER WHEAT @ 100 LB/AC. OATS SHALL BE USED IF SEEDING BETWEEN OCTOBER 15TH AND AUGUST 1ST. WINTER WHEAT SHALL BE USED IF SEEDING BETWEEN AUGUST 1ST AND OCTOBER 15TH.
- APPLY WISDOT SEED MIX 40 (COMMERCIAL TURF) AT A RATE OF 2 LB PER 1,000 SF. DO NOT USE NURSE CROP WITH TURF SEED.
- NATIVE SEED SHALL BE LOCAL ECOTYPE - SOURCED WITHIN 150 MILES OF THE PROJECT SITE.
- DO NOT APPLY FERTILIZER.



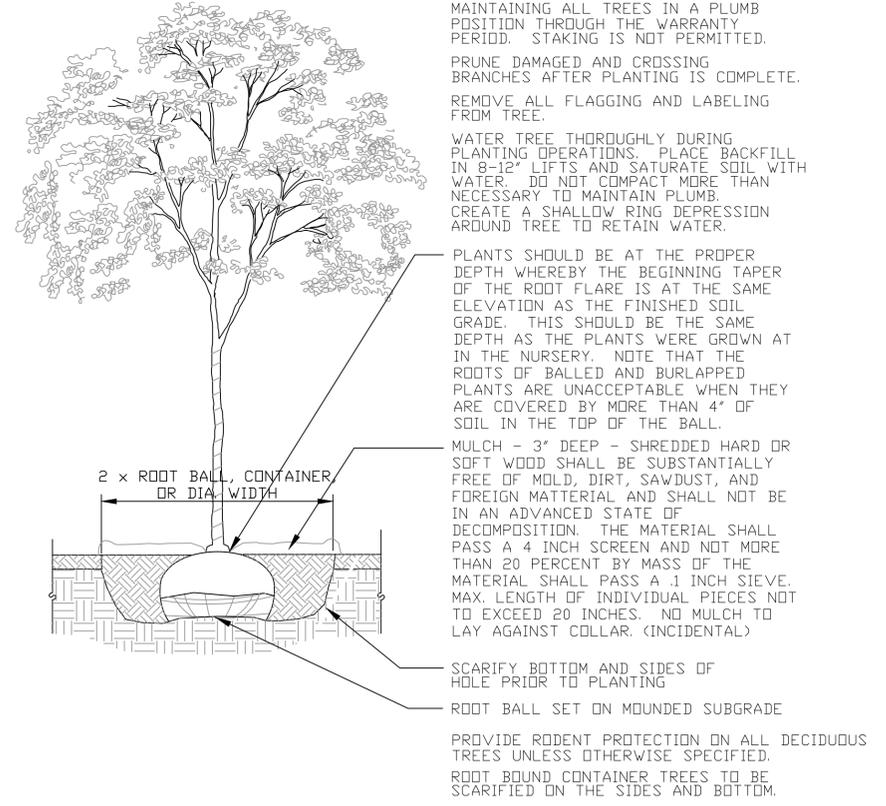
01 SHRUB PLANTING DETAIL
09 (No Scale) LL SW Basin



02 TREE PROTECTION DETAIL
09 (No Scale) LL SW Basin



03 CONIFEROUS TREE PLANTING DETAIL
09 (No Scale) LL SW Basin



04 DECIDUOUS TREE PLANTING DETAIL
09 (No Scale) LL SW Basin

Plot Date: 09/26/2017
 Drawing Name: X:\Clients_Privale\0909_Beaver_Dam_Lake_Assoc\0016_Library_Lake_SW_Wetland\08_Library_Lake_SW_CD.dwg
 Xrefs: libmap_barron\p1-z_xref\08_Lake_SW_0909-0762.parcels.dwg

6			
5			
4			
3	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION
2	09-06-2017	BH	100% PLAN SET - ADDENDUM NO. 01
1	08-25-2017	SLP	100% PLAN SET - FOR BID
NO	DATE	BY	REVISION

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Britta Han

BRITTA M. HANSEN
DATE: 09-29-2017 LICENSE # 736-14

SUBMISSION DATE:
09-29-2017

DESIGN BY
BH

DRAWN BY
BH

EOR PROJECT NO.
00909-0018

EOR Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
Tel: 651.770.8448
www.eorinc.com

**BEAVER DAM LAKE
MANAGEMENT DISTRICT**
PO BOX 232
CUMBERLAND, WISCONSIN 54829

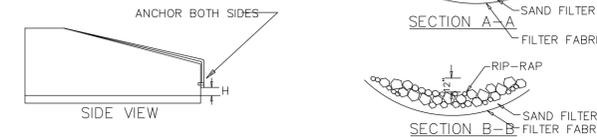
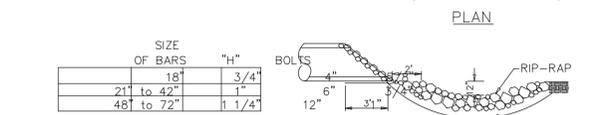
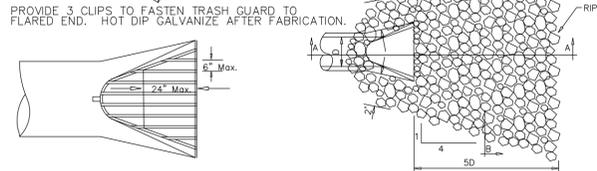
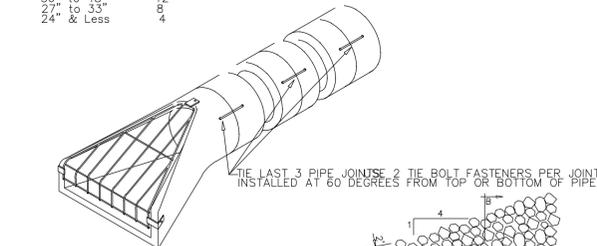
LIBRARY LAKE SW STORMWATER WETLAND
CUMBERLAND, BARRON COUNTY, WISCONSIN
STATE PROJECT NO. --- CITY PROJECT NO. ---

LANDSCAPE DETAILS
SHEET 09 OF 12 SHEETS

SEE DWGS FOR QTY OR RIP-RAP REQUIRED

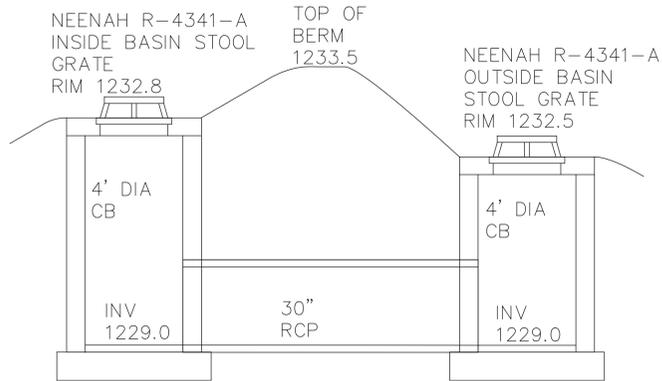
SIZE OF PIPE	CU. YD.
54" & Over	16
36" to 48"	12
27" to 33"	8
24" & Less	4

THESE QUANTITIES AND CLASS OF RIP-RAP SHOULD VARY ON VELOCITY.



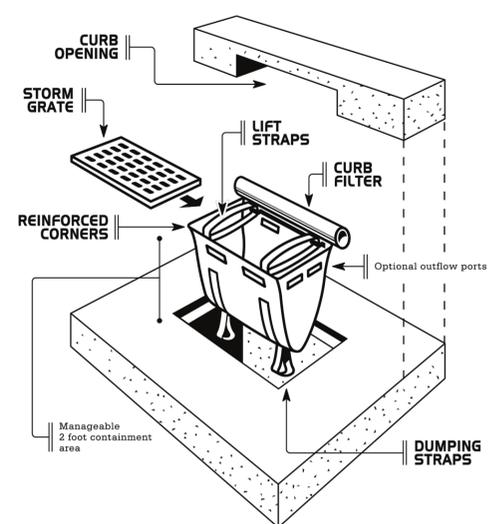
01 **FLARED END SECTION & RIPRAP DETAIL**
10 (No Scale) LL SW WETLAND

PLACE MEDIUM RIPRAP TO 3 FT ALL AROUND BOTH STRUCTURES, MIN. 6" THICK, ON GEOTEXTILE TYPE R.

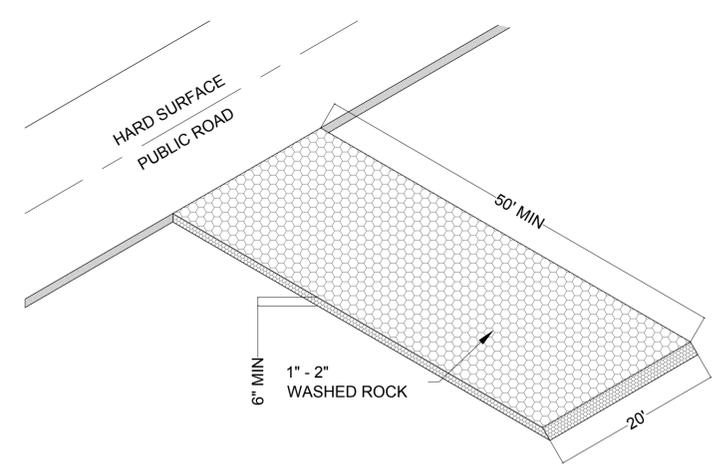


02 **OUTLET STRUCTURE DETAIL**
10 (No Scale) LL SW WETLAND

DANDY CURB SACK™

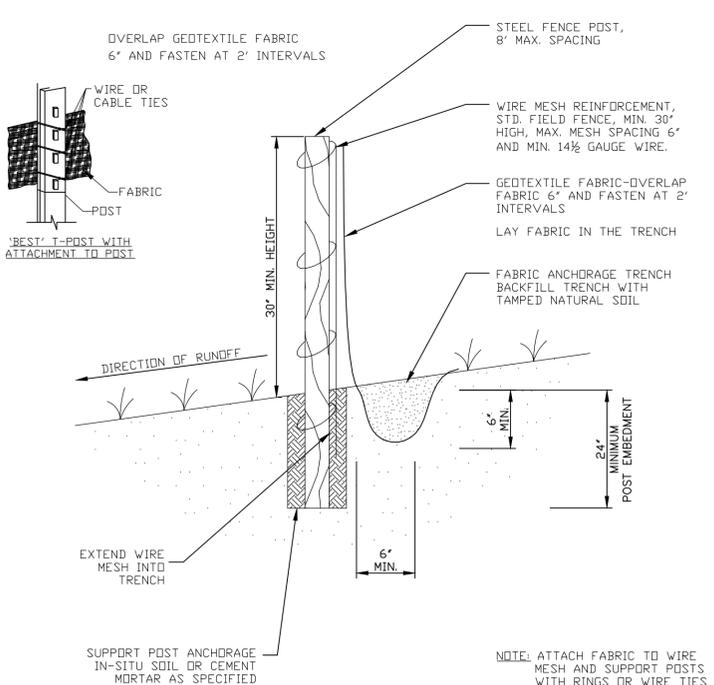


03 **INLET PROTECTION DETAIL**
10 (No Scale) LL SW WETLAND

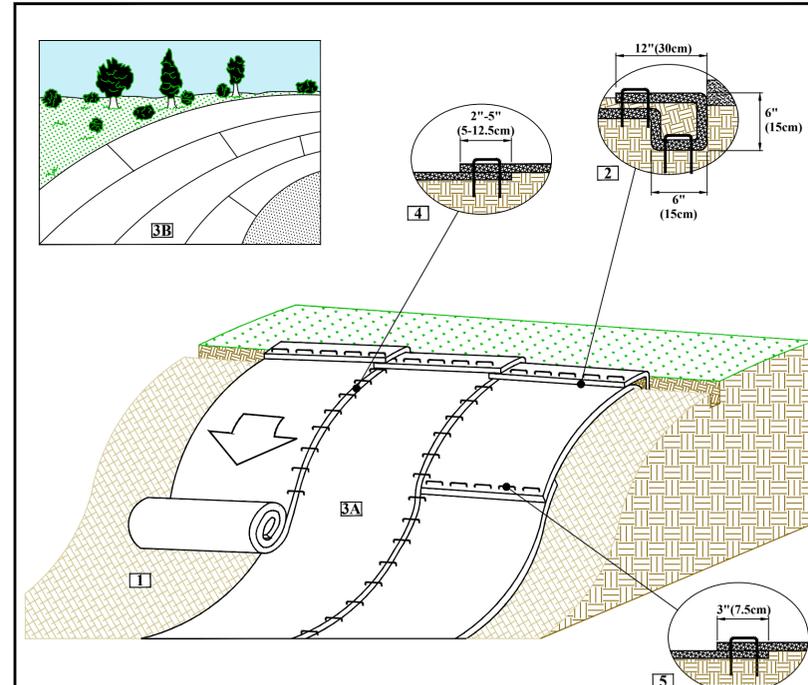


NOTE:
1. ROCK CONSTRUCTION ENTRANCE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROCESS.

04 **CONSTRUCTION ENTRANCE - TRACKING PAD DETAIL**
10 (No Scale) LL SW WETLAND



05 **SILT FENCE DETAIL**
10 (No Scale) LL SW WETLAND



SLOPE INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel RECPs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs spliced down the slope must be end over end (Shingle style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart across entire RECPs width.

NOTE:
In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

Drawing Not To Scale

Tensar NORTH AMERICAN GREEN™
5401 St. Wendel - Cynthia Rd. PO Box 232
Poseyville, IN 47633 PH: 800-722-2040 www.namgreen.com

Disclaimer:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 3-16-11

06 **EROSION CONTROL BLANKET DETAILS**
10 (No Scale) LL SW WETLAND

Plot Date: 09/26/2017
 Drawing Name: X:\Clients_Privately\0909_Beaver_Dam_Lake_Assoc\0016_Library_Lake_SW_Wetland\08_GIMS_ProjectName.dwg\09-0018_LIBRARY_LAKE_SW_CD.dwg
 Xrefs: libmap_baronoffr22_xref.dwg; libmap_baronoffr22_xref.dwg; libmap_baronoffr22_xref.dwg; libmap_baronoffr22_xref.dwg

NO	DATE	BY	REVISION
6			
5			
4			
3	09-29-2017	BH	100% PLAN SET - ISSUED FOR CONSTRUCTION
2	09-06-2017	BH	100% PLAN SET - ADDENDUM NO. 01
1	08-25-2017	SLP	100% PLAN SET - FOR BID

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Derek R. Lash
DEREK R. LASH
DATE: 09-29-2017 LICENSE # 40938-6

SUBMISSION DATE: 09-29-2017

DESIGN BY SLP DRAWN BY BH

EOR PROJECT NO. 00909-0018

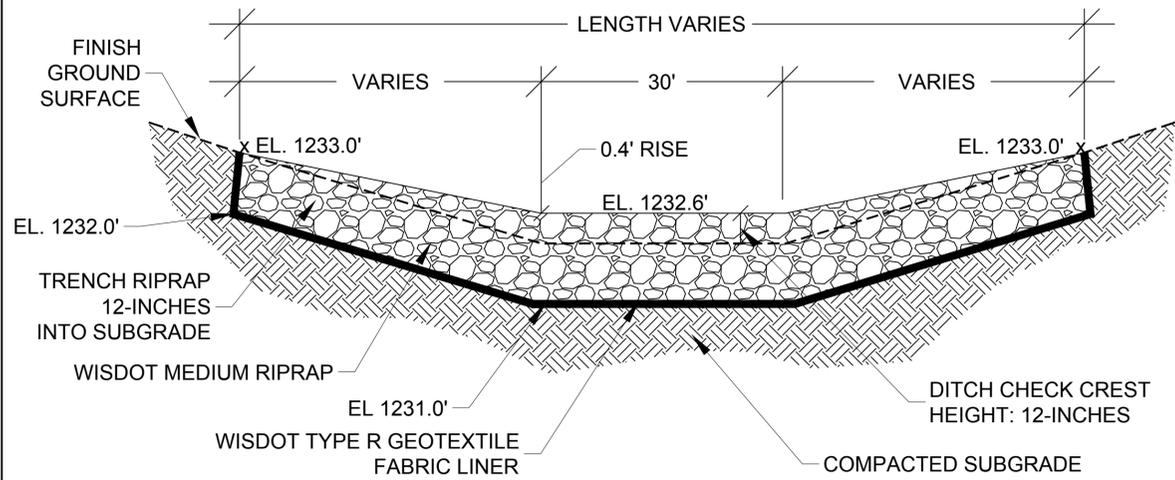
EOR Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
Tele: 651.770.8448
www.eorinc.com

BEAVER DAM LAKE MANAGEMENT DISTRICT
PO BOX 232
CUMBERLAND, WISCONSIN 54829

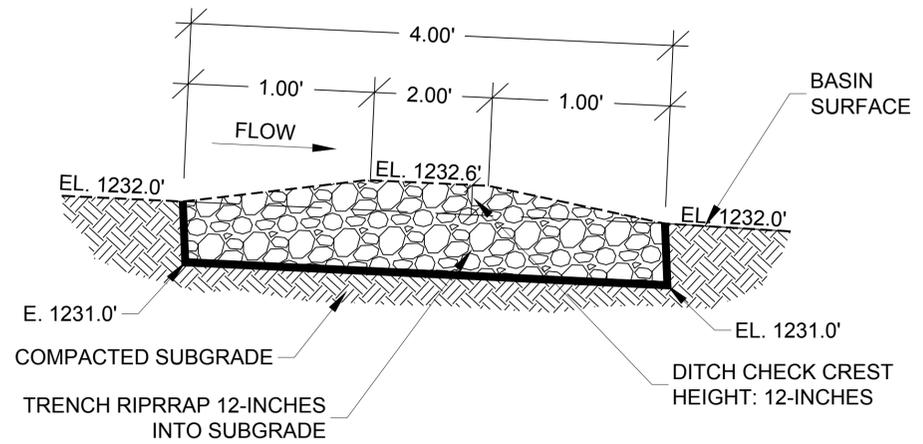
LIBRARY LAKE SW STORMWATER WETLAND
CUMBERLAND, BARRON COUNTY, WISCONSIN

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAILS I
SHEET 10 OF 12 SHEETS

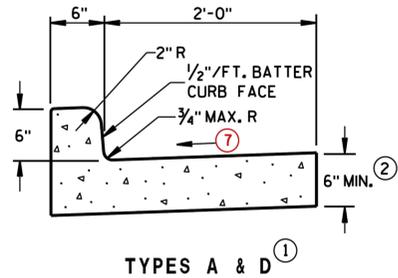


01 RIPRAP BERM CROSS SECTION
11 (No Scale) LL SW WETLAND



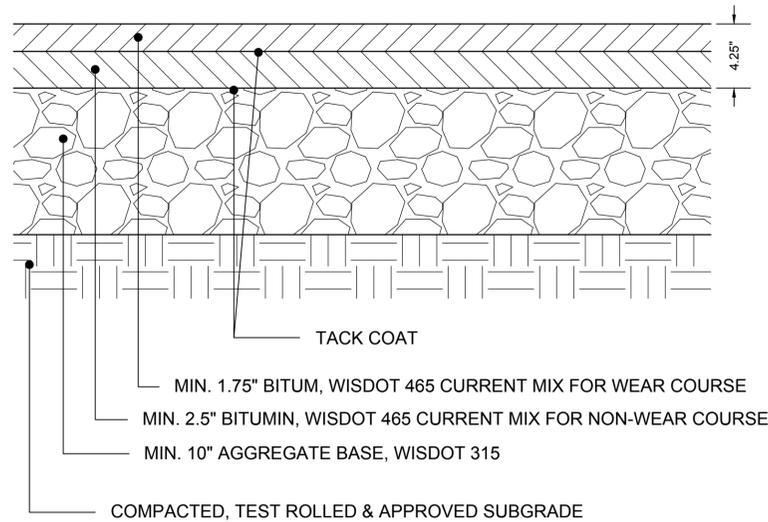
02 RIPRAP BERM PROFILE VIEW
11 (No Scale) LL SW WETLAND

- NOTE:
1. MATCH EXISTING CURB & GUTTER DESIGN ALONG HWY 63.
 2. SEE WISDOT HWY 63 TYPICAL SECTION (APPENDIX B).

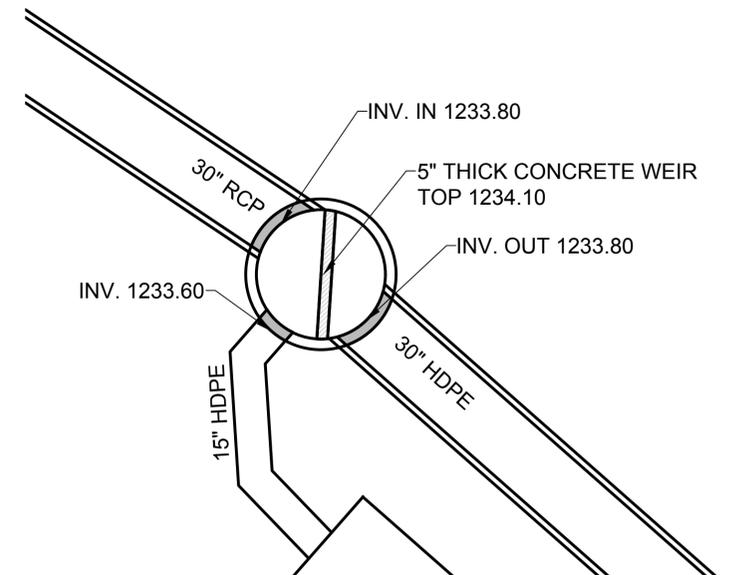


03 WISDOT CURB & GUTTER DETAIL
11 (No Scale) LL SW WETLAND

- NOTE:
1. MATCH EXISTING PAVEMENT DESIGN ALONG HWY 63.
 2. SEE WISDOT HWY 63 TYPICAL SECTION (APPENDIX B).



04 ASPHALT PAVEMENT RESTORATION DETAIL
11 (No Scale) LL SW WETLAND



05 60" LOW FLOW DIVERTER MH
11 (No Scale) LL SW WETLAND

Plot Date: 09/26/2017
 Drawing Name: X:\Clients_Privately\0609_Beaver_Dam_Lake_Assoc\0016_Library_Lake_SW_Wetland\05_GIMS_Project\Named\09-0018_Library_Lake_SW_CD.dwg
 Xrefs: hcrmap_barron\p2_xref\05_0909-0762.parcels.dwg

NO	DATE	BY	REVISION
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5			
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DEREK R. LASH
DATE: 09-29-2017 LICENSE # 40938-6

SUBMISSION DATE:
09-29-2017

DESIGN BY: SLP DRAWN BY: BH

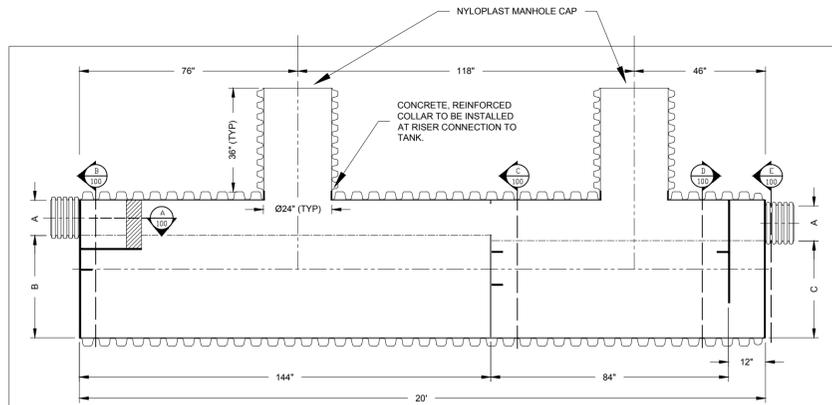
EOR PROJECT NO.:
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CUMBERLAND, WISCONSIN 54829

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WETLAND
CUMBERLAND, BARRON COUNTY,
WISCONSIN

DETAILS II
STATE PROJECT NO. --- CITY PROJECT NO. ---
SHEET 11 OF 12 SHEETS



Prinsco Product Number	SWQU Dia.	Sediment Chamber Storage Volume ft ³	Oil Chamber Storage Volume ft ³	Total Storage Volume ft ³	Inlet /Outlet Stub Diameter (A) in.	SWQU Inlet Invert (B) in. Nominal	SWQU Outlet Invert (C) in. Nominal	Max Treated Flow Rate @ 140 Sieve Size (CFS)	Max Treated Flow Rate @ 200 Sieve Size (CFS)	Outlet Orifice Dia (D) in.
WQU3620A	36"	72	42	114	10	25.50	23.50	1.51	-	6.6
WQU3620B	36"	72	42	114	10	25.50	23.50	-	0.75	4.7
WQU4220A	42"	92.9	54.2	147.1	12	29.75	27.75	1.77	-	6.9
WQU4220B	42"	92.9	54.2	147.1	12	29.75	27.75	-	0.88	4.9
WQU4820A	48"	121.3	70.8	192.1	12	35.88	33.88	2.31	-	7.9
WQU4820B	48"	121.3	70.8	192.1	12	35.88	33.88	-	1.15	5.6
WQU6020A	60"	172.7	100.7	273.4	15	44.63	42.63	2.97	-	8.5
WQU6020B	60"	172.7	100.7	273.4	15	44.63	42.63	-	1.48	6

THIS DETAIL DEPICTS RECOMMENDED INSTALLATION PRACTICES AND IS NOT INTENDED TO SUPERSEDE ANY NATIONAL, STATE OR LOCAL SPECIFICATIONS. PRINSCO BEARS NO RESPONSIBILITY FOR ANY ALTERATIONS, REVISION AND/OR DEVIATION FROM THIS STANDARD DETAIL. PRINSCO HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICE FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION TO VERIFY SUITABILITY. © PRINSCO, INC.



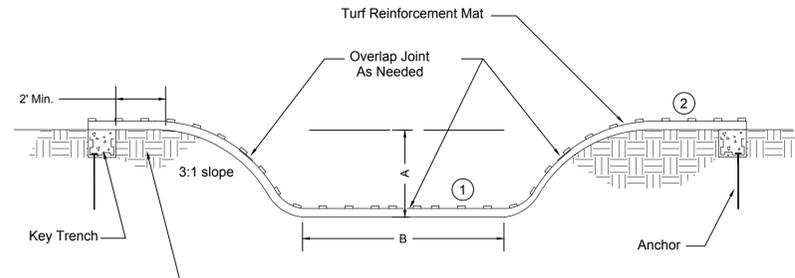
SWQU 20FT PRODUCT DETAIL

DATE	BY	DESCRIPTION
01/05/2011	SLP	ISSUED FOR CONSTRUCTION
NT'S		
1/1/12		

D-4-100

01 60" X 20 LF HDPE STORMWATER QUALITY

(No Scale) LL SW Wetland



Description	FL	
A Overflow Depth	2.5	① 1233.20
B Overflow Width	8	② 1234.00

TURF REINFORCEMENT MAT SECTION VIEW - TOP OF POND OVERFLOW

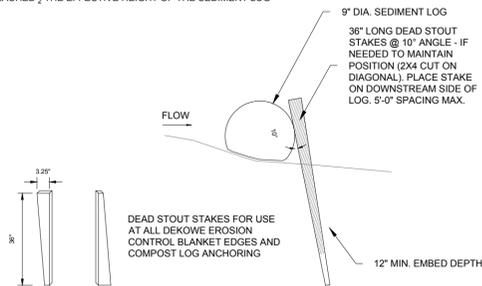
Note: To Be Stapled Per Manufacturer's Specifications

02 TURF REINFORCEMENT MAT DETAIL

(No Scale) LL SW Wetland

GENERAL NOTES:

- SEDIMENT LOG SHALL BE A MINIMUM OF 9" IN DIAMETER, PLASTIC OR POLYESTER MATERIAL WITH 3/8" MAX. NET OPENINGS
- INSTALL SEDIMENT LOG AS SHOWN ON PLANS
- LOCATION/POSITION TO BE APPROVED BY PROJECT ENGINEER
- REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE SEDIMENT LOG WHEN ACCUMULATION HAS REACHED 1/2 THE EFFECTIVE HEIGHT OF THE SEDIMENT LOG



03 SEDIMENT LOG STAKING DETAIL

(No Scale) LL SW Wetland

NO	DATE	BY	REVISION
6			
5			
4			
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DATE: 09-29-2017 LICENSE # 40938-6

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EOR Emmons & Olivier Resources, Inc.
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ecology Tele: 651.770.8448
community www.eorinc.com

BEAVER DAM LAKE MANAGEMENT DISTRICT
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LIBRARY LAKE SW STORMWATER WETLAND
CUMBERLAND, BARRON COUNTY, WISCONSIN

DETAILS III
STATE PROJECT NO. --- CITY PROJECT NO. ---
SHEET 12 OF 12 SHEETS

Plo Date: 09/26/2017
 Drawing Name: X:\Clients_Privale\0909_Beaver_Dam_Lake_Assoc\0016_Library_Lake_SW_Wetland\05_GIMS_Project\Named\09-0018_Library_Lake_SW_CD.dwg
 Xrefs: Icorrmap_Barron\FRZ_XREFS_0909-0018.dwg, parcels.dwg