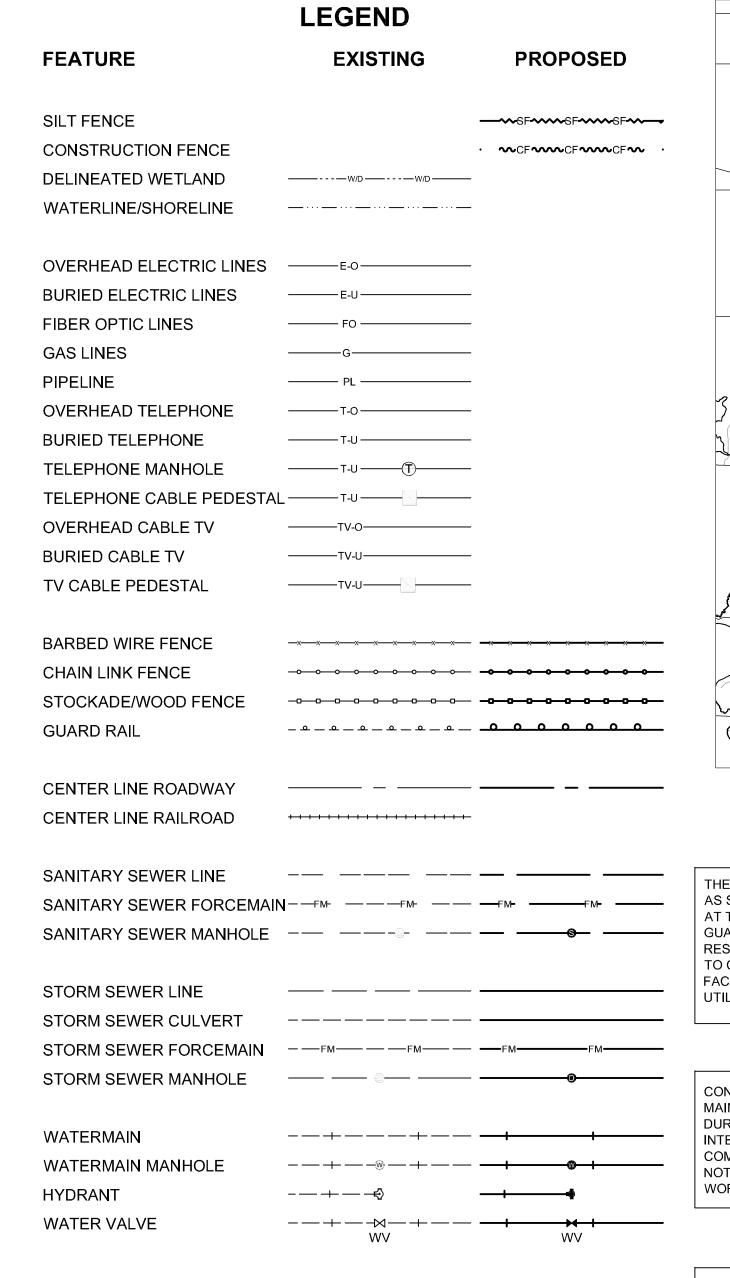
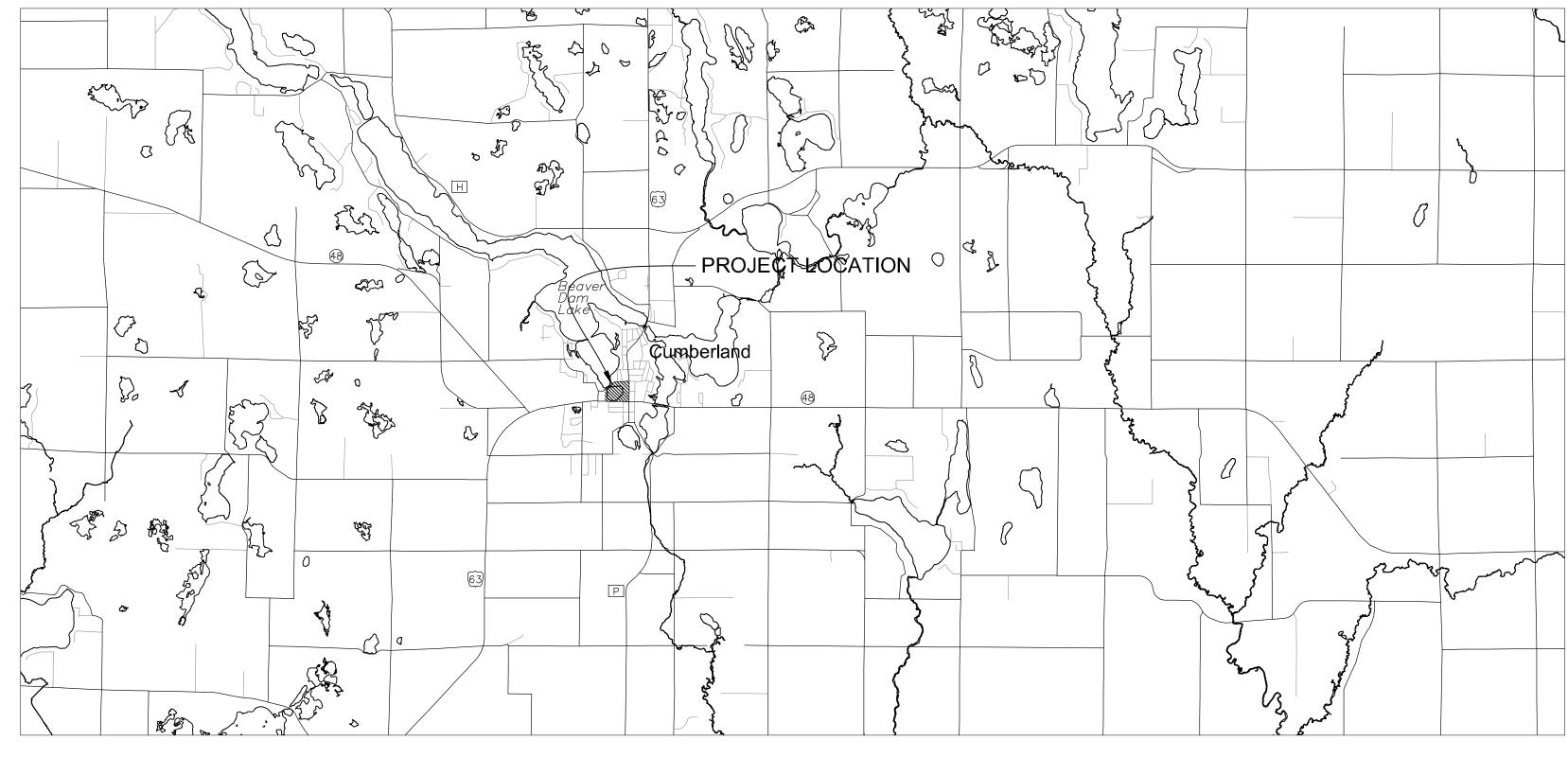
BEAVER DAM LAKE MANAGEMENT DISTRICT THE LIBRARY BAY COMMITTEE-CITY OF CUMBERLAND

CUMBERLAND, BARRON COUNTY, WISCONSIN





SHEET NO.	SHEET NO. SHEET DESCRIPTION	
1	TITLE SHEET	
2	SCHEDULE OF ESTIMATED QUANTITIES	
3	SITE ACCESS, EXISTING CONDITIONS AND REMOVALS	
4	STORM SEWER & GRADING	
5	TEMP. & PERMANENT EROSION CONTROL	
6	VEGETATION RESTORATION	
7	DETAILS	
8	TRM DETAILS	
9	REVEGETATION AND LANDSCAPE DETAILS	

UTILITIES

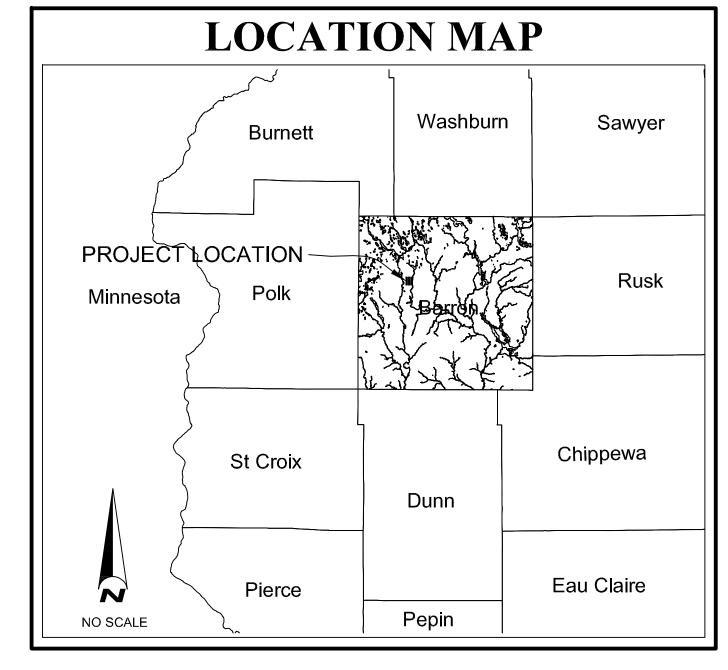
THE LOCATION OF UNDERGROUND FACILITIES OR STRUCTURES AS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME THE PLANS WERE PREPARED AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE THE EXACT LOCATION OF ALL FACILITIES AND TO PROVIDE ADEQUATE PROTECTION OF SAID UTILITIES DURING THE COURSE OF WORK.

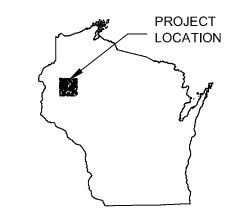
CONSTRUCTION NOTE

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.

DIGGER'S HOTLINE

WISCONSIN STATUTE 182.0175 REQUIRES YOU TO NOTIFY DIGGERS HOTLINE BEFORE YOU EXCAVATE, GRADE, TRENCH DIG, DRILL, AUGUR, TUNNEL, SCRAPE, PLOW CABLE OR PIPE SO THAT UNDERGROUND ELECTRIC, NATURAL GAS, TELEPHONE OR OTHER UTILITY LINES CAN BE MARKED ON OR NEAR YOUR PROPERTY BEFORE ANY EXCAVATION BEGINS. A THREE WORKING DAY NOTICE IS REQUIRED. CALLS CAN BE MADE TO DIGGERS HOTLINE AT 811 OR 1-800-242-8511, MONDAY THROUGH FRIDAY (EXCEPT HOLIDAYS).





CLIENT

BEAVER DAM LAKE MANAGEMENT DISTRICT THE LIBRARY BAY COMMITTEE-CITY OF CUMBERLAND 1690 ELM STREET CUMBERLAND, WISCONSIN 54829

ENGINEER

EMMONS & OLIVIER RESOURCES, INC. 651 HALE AVENUE NORTH OAKDALE, MINNESOTA 55128-7534 TELEPHONE: (651) 770-8448 FAX: (651) 770-2552 eorinc.com

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE # #####

SUBMISSION DATE: MM/DD/YYYY DESIGN BY DRAWN BY EOR PROJECT NO.

Emmons & Olivier Resources, Inc. 651 Hale Avenue North w a t e r Oakdale, MN 55128 e c o l o g y Tele: 651.770.8448 community www.eorinc.com

BEAVER DAM LAKE MANAGEMENT DISTRICT 1690 ELM STREET CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE RESTORATION NE STORMWATER WETLAND CUMBERLAND, BARRON COUNTY, WISCONSIN

CITY PROJECT NO.

STATE PROJECT NO.

TITLE SHEET

SHEET 1 OF 9 SHEETS

SCHI	EDl	JLE OF UNIT PRICES				
BEAVE	R DA	M LAKE MANAGEMENT DISTRICT				
		ND, WISCONSIN CT NO. 00909-0001			DATE:	5/12/2009
BIDDEF	R agre	ees to perform all of the work described in the CONTRACT DO	OCUMENTS	for the following	na unit prices:	
NOTE: E	BIDS	shall include sales tax and all applicable taxes and fees. t fill in unit prices in numerals, make extension for each item, a				
DIDDE		CY (LV) = Cubic Yards, Loose Volume				
		CY (CV) = Cubic Yards, Compacted Volume (Measured in P (P)=Planned Quantity Basis of Measurement	iace)			
ITEM NO.	###	ITEM	APPROX. QUANT.	UNIT	UNIT PRICE	AMOUNT
1		MOBILIZATION	1	LS		
2		TRAFFIC CONTROL	1	LS		
3		CLEAR & GRUBB	3	EA		
4		SEED MIX #1		LS		
5		SEED MIX #2		LS		
6		SEEDING	1670			
7		4" COMPOST	1670			
8		STRAW MULCH		TONS		
9		EROSION CONTROL BLANKET, GEO-JUTE	526			
10		SILT FENCE	280	LF		
11		CONSTRUCTION FENCE	380	LF		
12		PERMANENT FENCE	200	LF		
13		SILT CURTAIN	225	LF		
14		SOD	300	SY		
15		SAW CUT BITUMINOUS PAVEMENT	20	LF		
16		REMOVE BITUMINOUS DRIVEWAY PAVEMENT	200	SY		
17		REMOVE STORM SEWER PIPE	90	LF		
18		REMOVE CONCRETE HEADWALL	1	EA		
19		COMMON EXCAVATION	3000	CY		
20		STORMWATER SEDIMENT EXCAVATION	148	CY		
21		SALVAGE & RESPREAD TOPSOIL	40	CY		
22		TOPSOIL BORROW(LV)		CY		
23		STREET SWEEPING		HR		
24		BITUMINOUS DRIVEWAY REPAIR		SY		
25		4" 3/16 STEEL LANDSCAPE EDGING	150			
26		TURF REINFORCEMENT MAT		SY		
27		4" PVC PIPE		LF		
28		4" HDPE DRAIN TILE W/SOCK	200			
29		24" HDPE PIPE	31	LF		
30		CONSTRUCT DRAINAGE STRUCTURE (48")	1	EA		
31		24" HDPE FLARED END SECTION	1	EA		
32		CASTING ASSEMBLY	3	EA		
33		SEDIMENT CHAMBER	1	EA		
34		DEWATERING	1	LS		
35		RIP RAP CL III FIELD STONE	24	CY		
36		PLANTS (2.25" PLUG)	5281	EA		
37		TREES (#15 CONT.)	5	EA		
38		SHRUBS	24	EA		
39		FIELDSTONE RETAINING WALL	760			
40		5-YEAR MAINTENANCE, VEGETATION ESTABLISHMENT		LS		
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DATE BY

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INDIVIDUAL CERTIFYING DATE: XX-XX-2007

REVISION

SUBMISSION DATE: MM/DD/YYYY DESIGN BY DRAWN BY

EOR PROJECT NO.

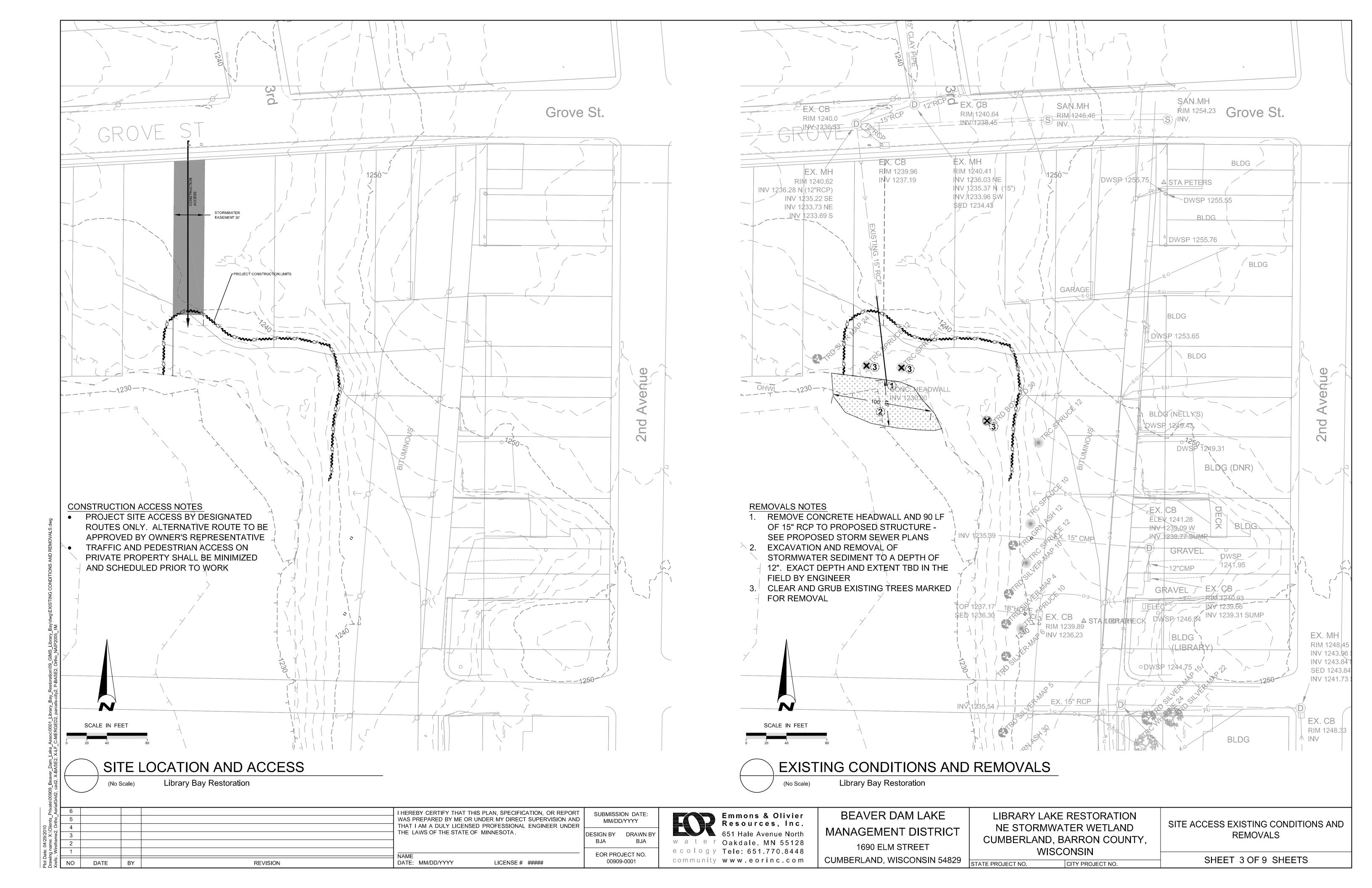
Emmons & Olivier Resources, Inc. 651 Hale Avenue North w a t e r Oakdale, MN 55128 ecology Tele: 651.770.8448 community www.eorinc.com

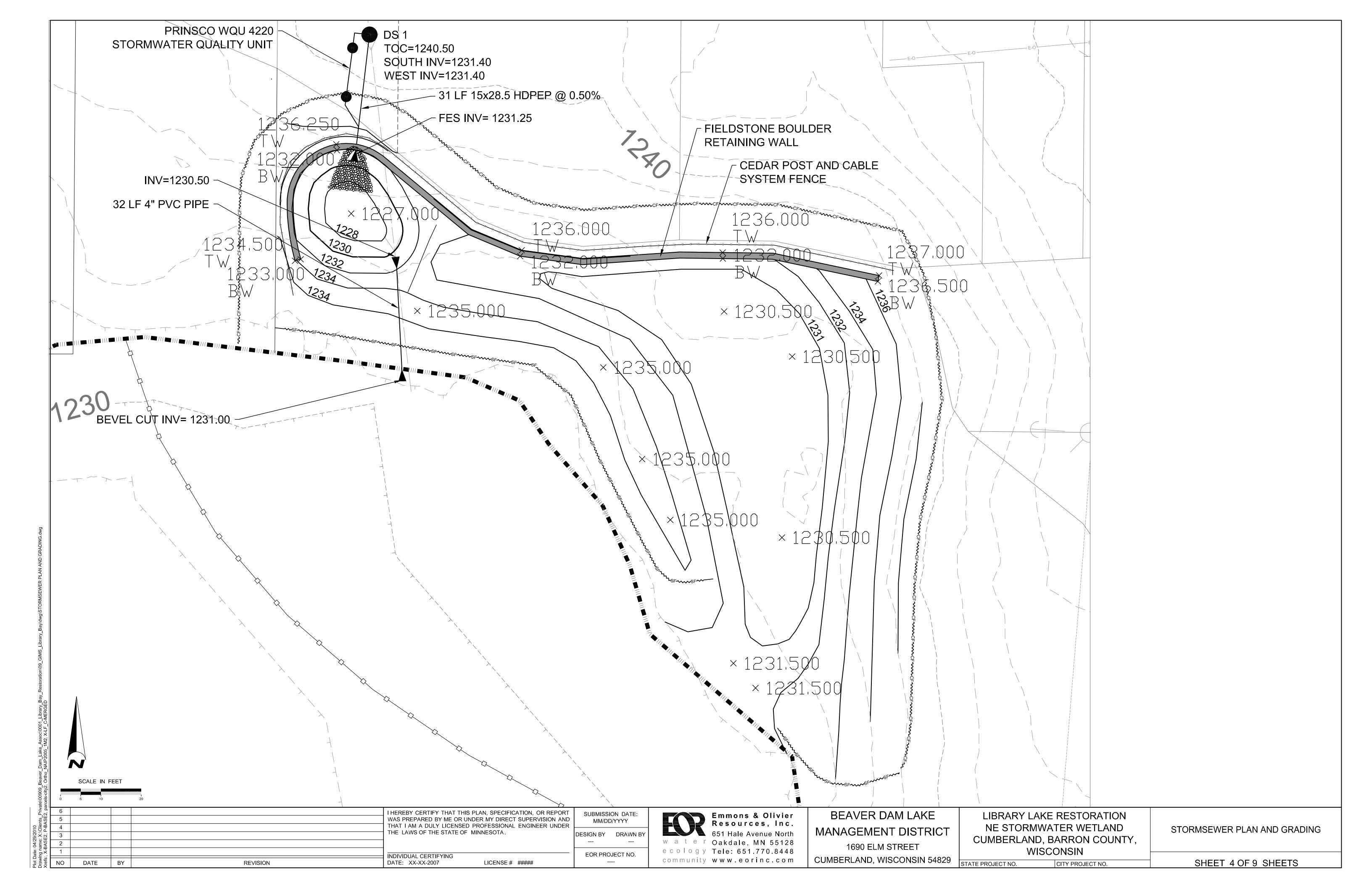
BEAVER DAM LAKE MANAGEMENT DISTRICT 1690 ELM STREET CUMBERLAND, WISCONSIN 54829

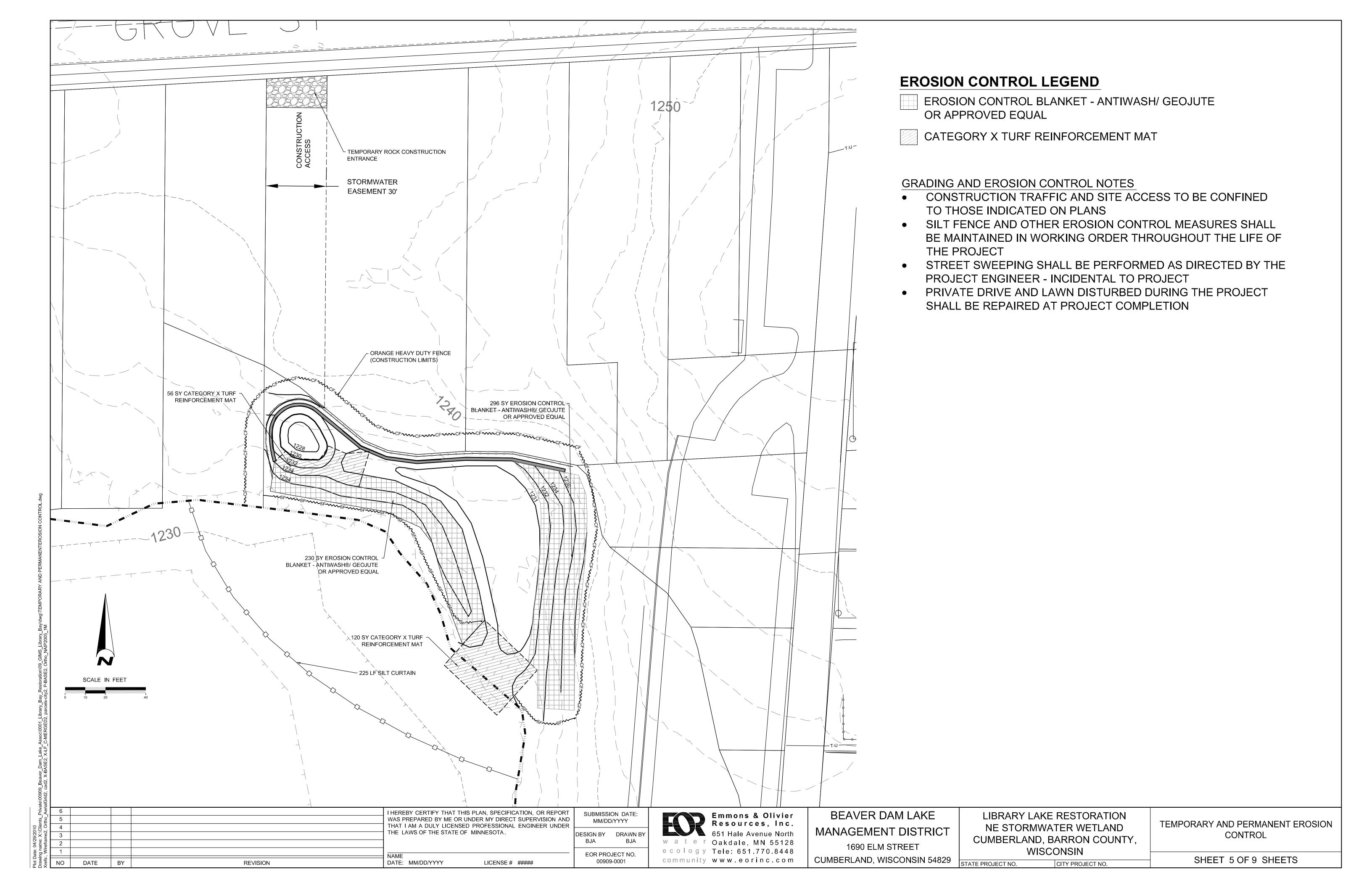
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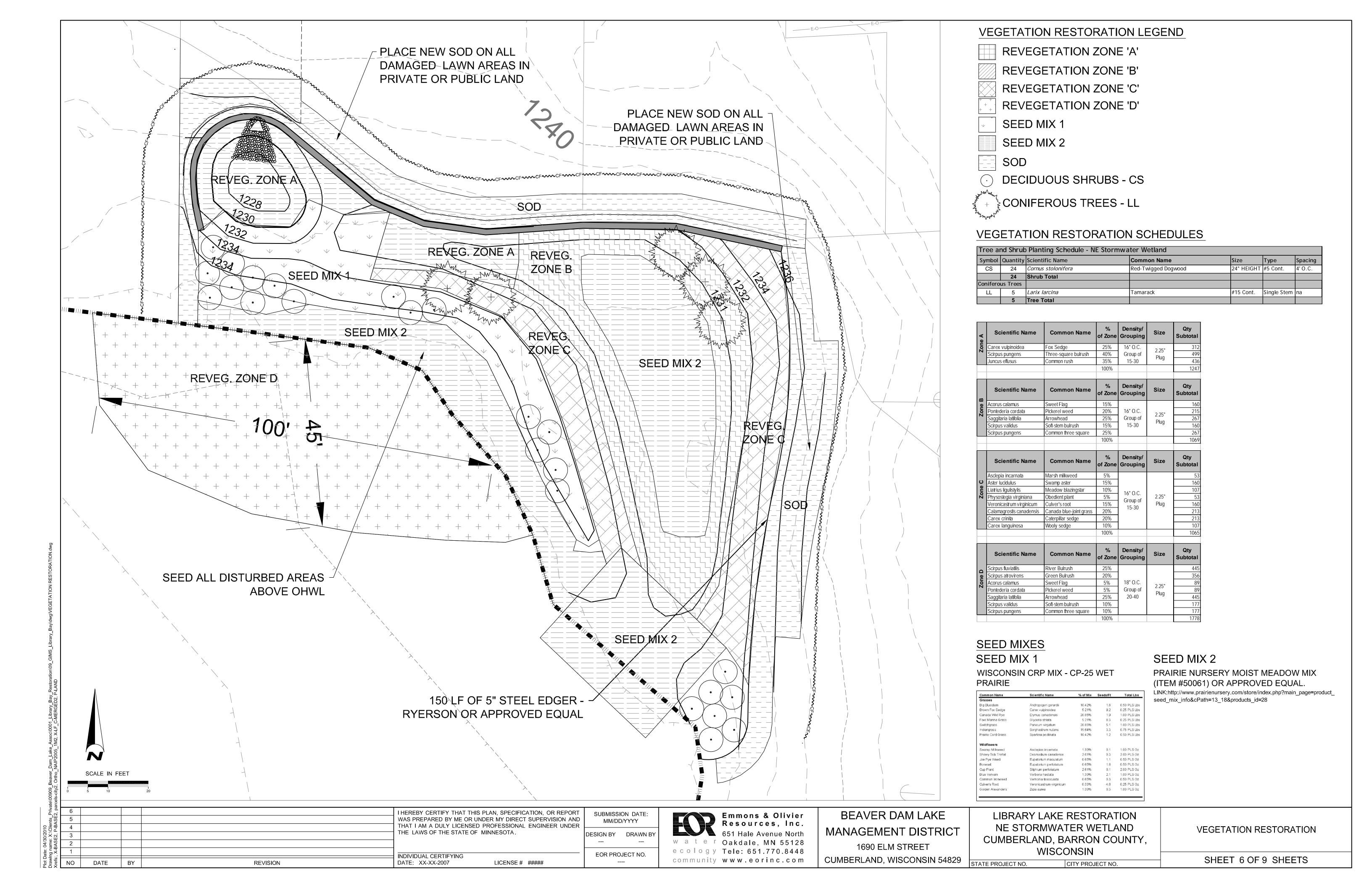
STATEMENT OF ESTIMATED QUANTITIES

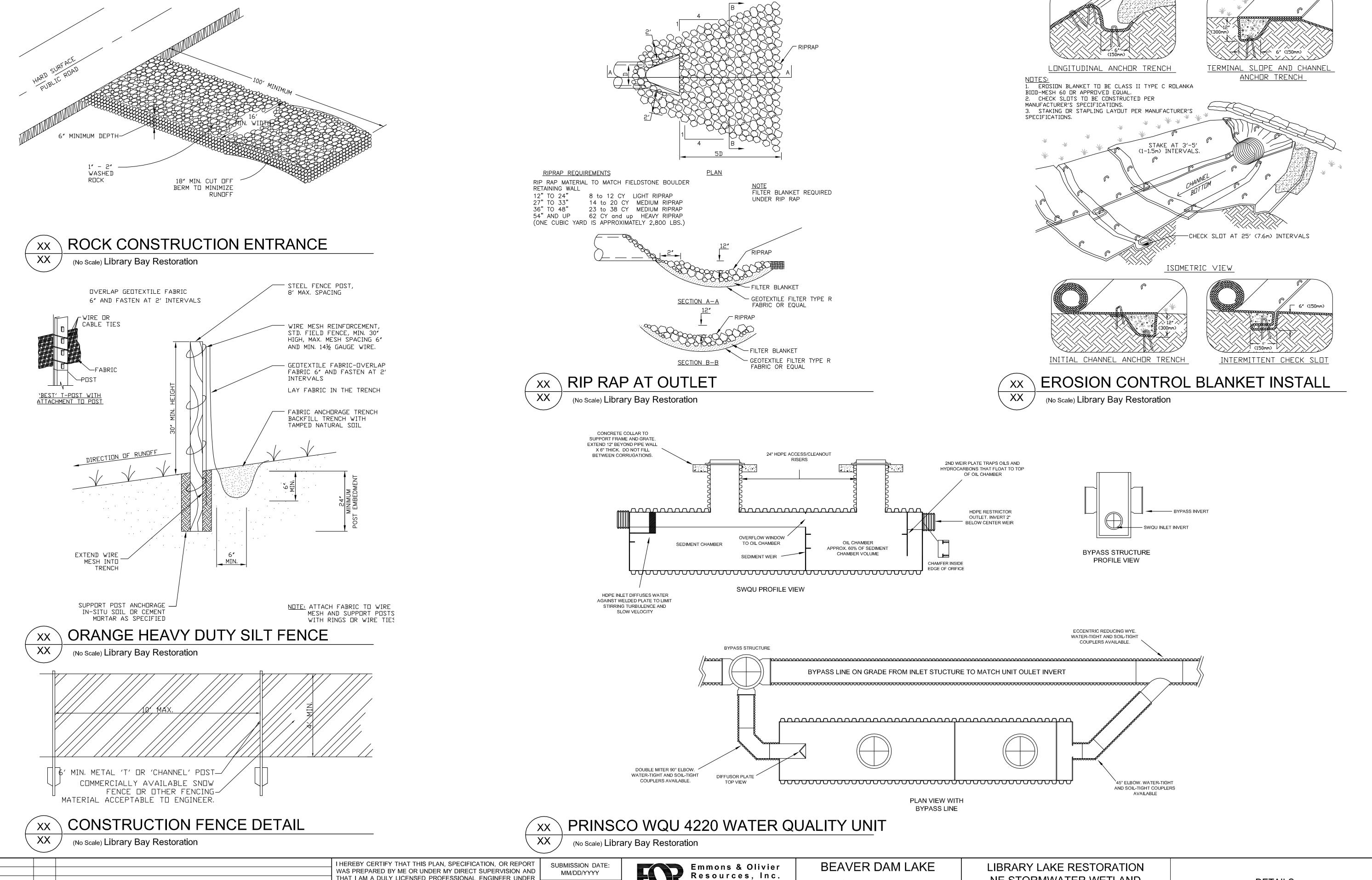
CUMBERLAND WISCONSIN SHEET 2 OF XX SHEETS STATE PROJECT NO. CITY PROJECT NO.











DATE

THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE # #####

INDIVIDUAL CERTIFYING

DATE: XX-XX-2007

REVISION

DESIGN BY DRAWN BY EOR PROJECT NO.

w a t e r Oakdale, MN 55128 e c o l o g y Tele: 651.770.8448 community www.eorinc.com

651 Hale Avenue North CUMBERLAND, WISCONSIN 54829

MANAGEMENT DISTRICT 1690 ELM STREET

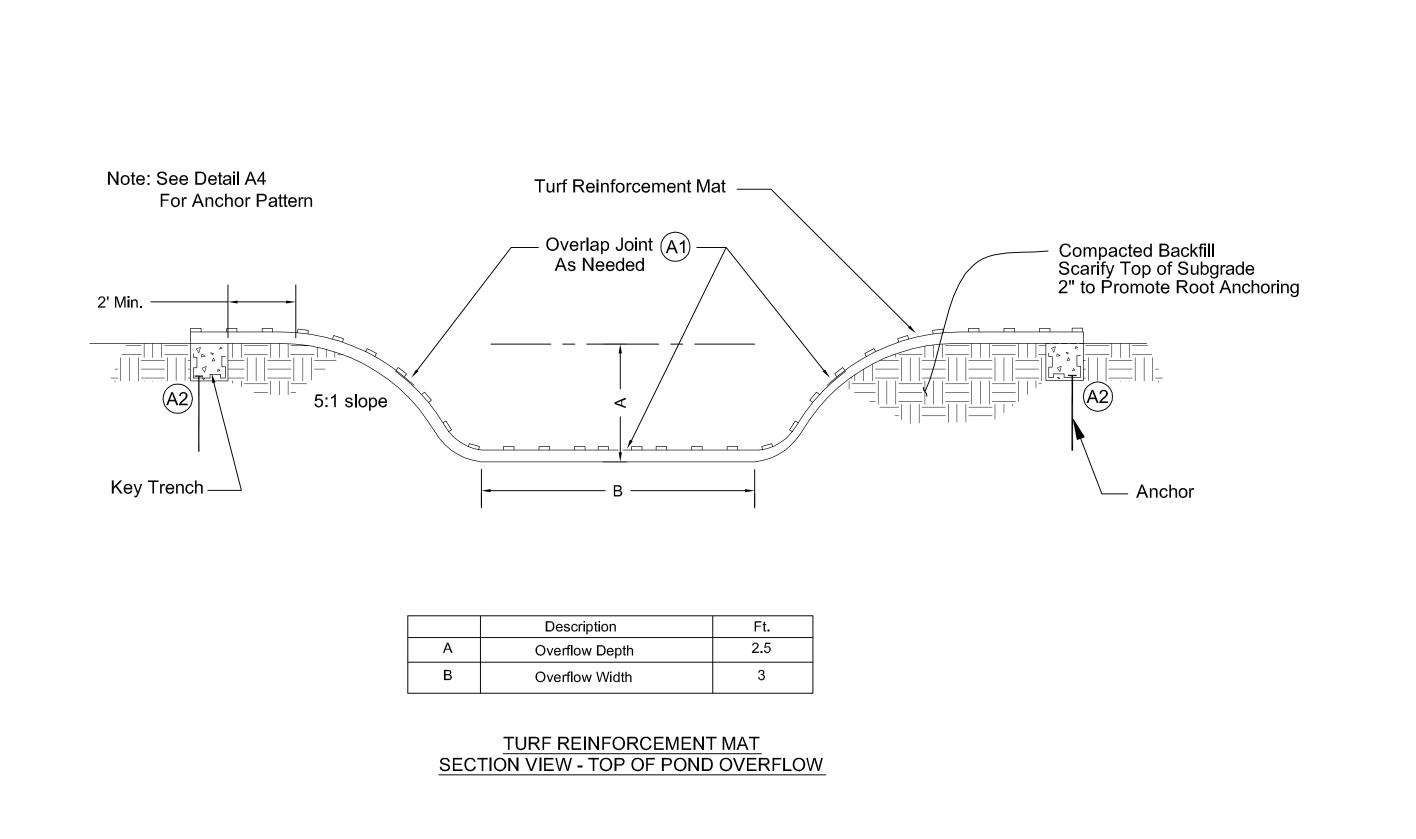
NE STORMWATER WETLAND CUMBERLAND, BARRON COUNTY, WISCONSIN

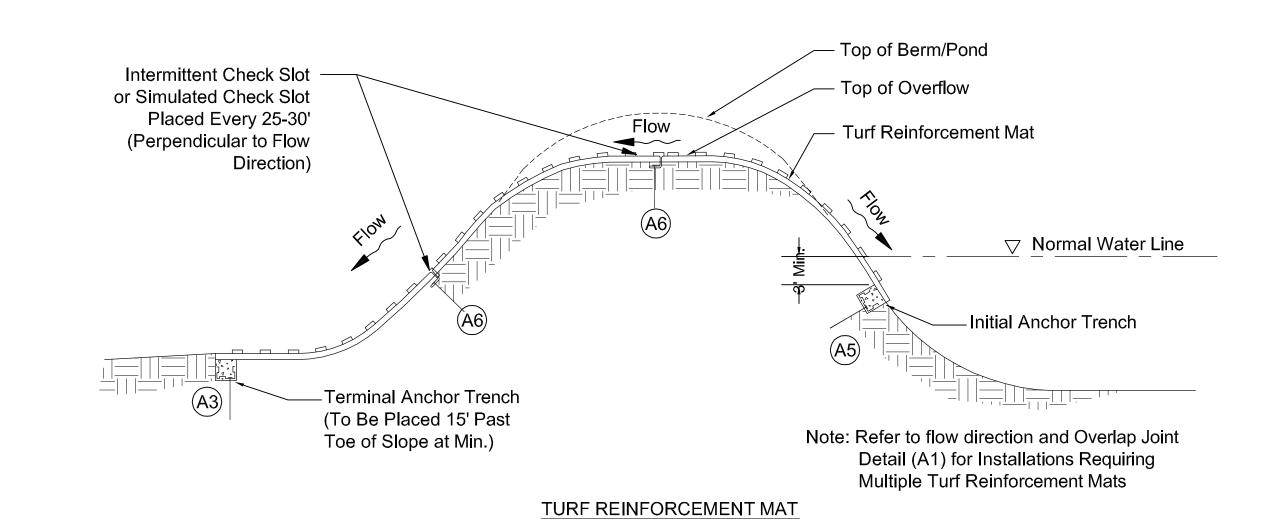
CITY PROJECT NO.

STATE PROJECT NO.

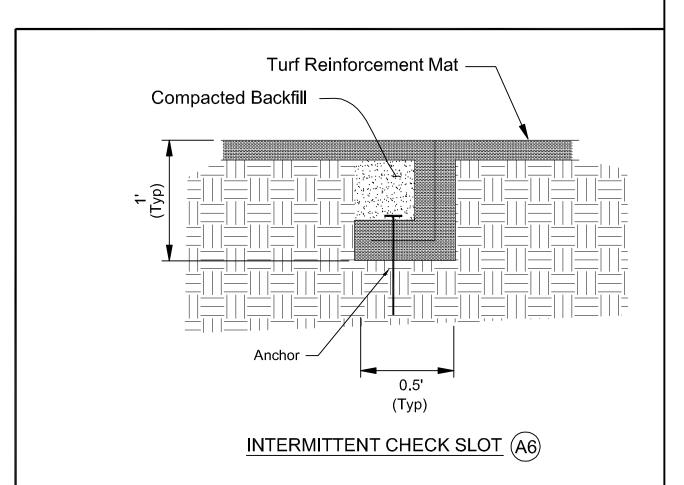
DETAILS

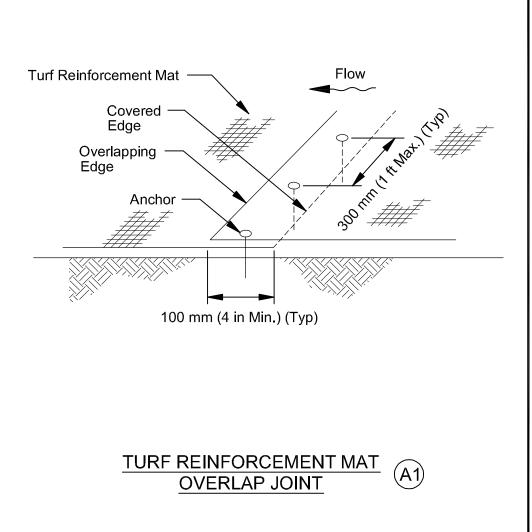
SHEET 7 OF 9 SHEETS

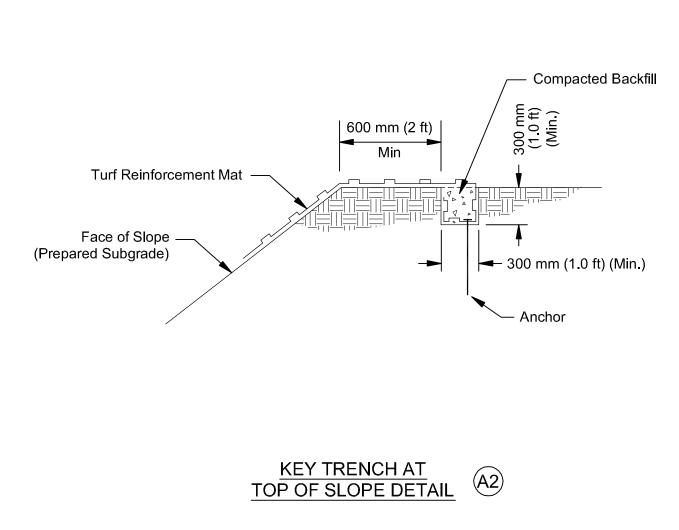


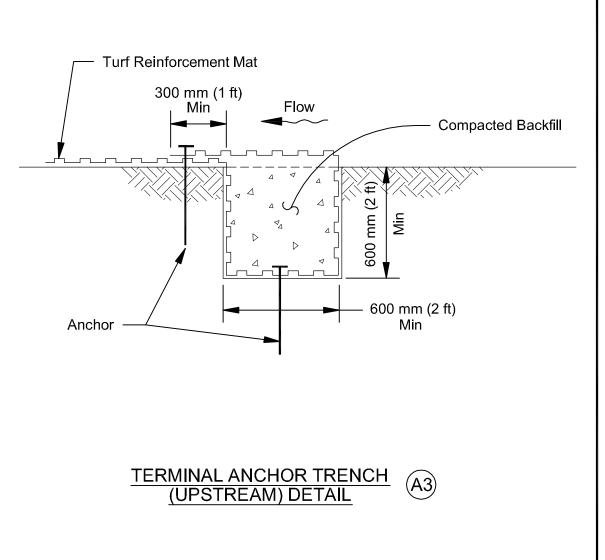


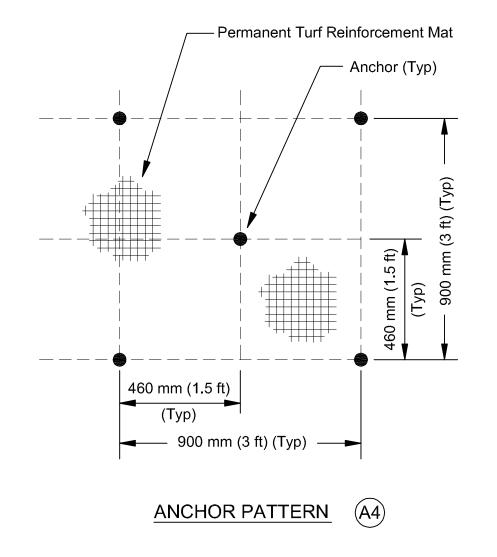
SIDE VIEW - POND OVERFLOW

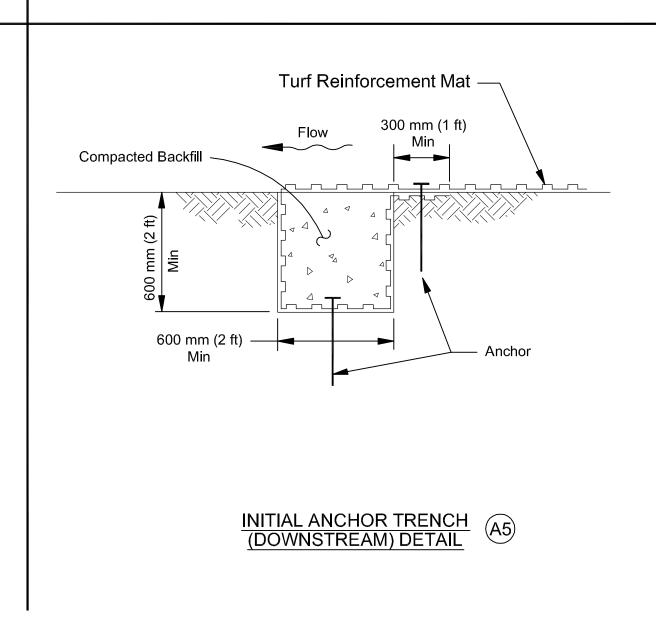












TURF REINFORCEMENT MAT OVERFLOW

(No Scale) Library Bay Restoration

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LICENSE # #####

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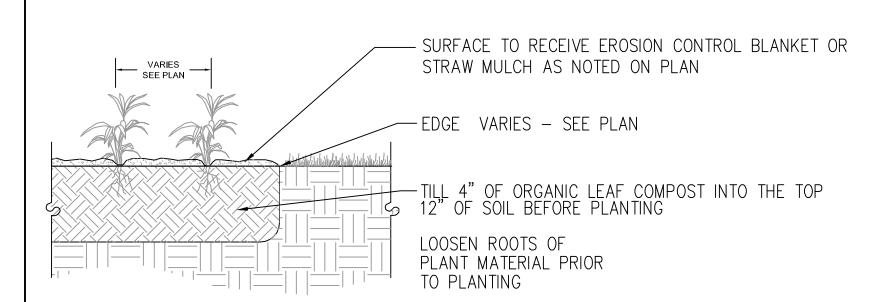
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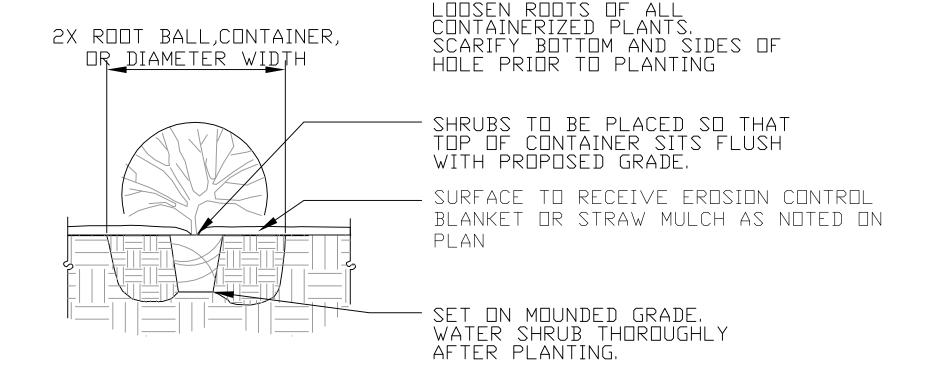
FM	Emmons & Olivier Resources, Inc.
	651 Hale Avenue North
water	Oakdale, MN 55128
ecology	Tele: 651.770.8448
community	www.eorinc.com

BEAVER DAM LAKE
MANAGEMENT DISTRICT
1690 ELM STREET
CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE RESTORATION						
NE STORMWATER WETLAND						
CUMBERLAND, BARRON COUNTY,						
WISCONSIN						
STATE PROJECT NO. CITY PROJECT NO.						

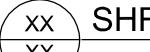
TRM DETAILS SHEET 8 OF 9 SHEETS





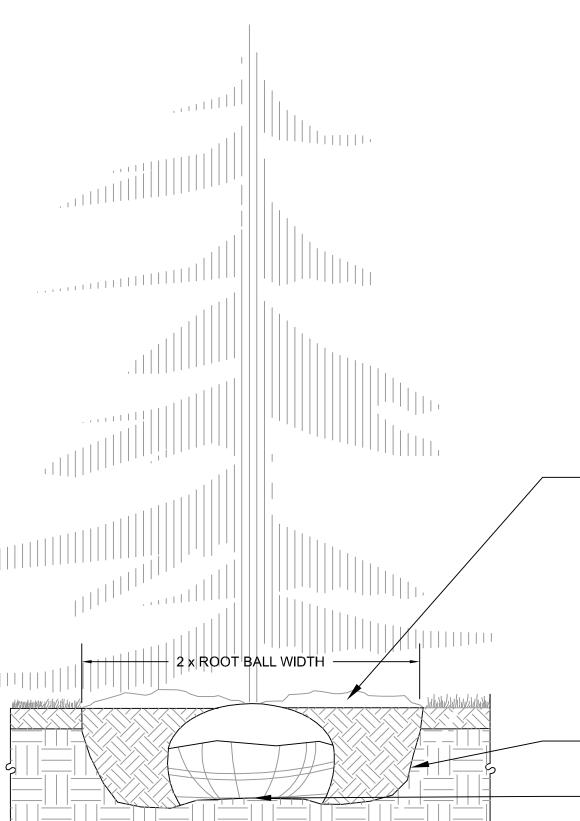
PERENNIAL PLANTING DETAIL

(No Scale) Library Bay Restoration



SHRUB PLANTING DETAIL

(No Scale) Library Bay Restoration



THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TREES IN A PLUMB POSITION THROUGH THE WARRANTY PERIOD. STAKING IS NOT PERMITTED

PRUNE ANY DAMAGED BRANCHES AFTER PLANTING IS COMPLETE.

REMOVE ALL FLAGGING AND LABELING FROM TREE.

WATER TREE THOROUGHLY DURING PLANTING OPERATIONS. PLACE BACKFILL IN 8-12" LIFTS AND SATURATE SOIL WITH WATER. DO NOT COMPACT MORE THAN NECESSARY TO MAINTAIN PLUMB.

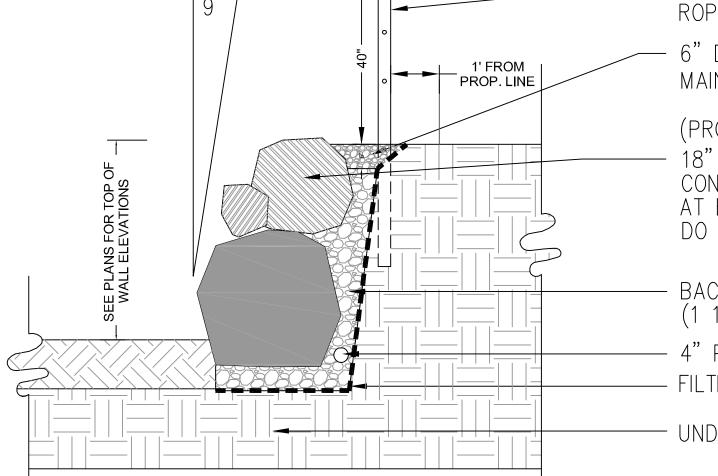
MULCH - 4" DEEP - SHREDDED HARD OR SOFT WOOD SHALL BE SUBSTANTIALLY FREE OF MOLD, DIRT, SAWDUST, AND FOREIGN MATERIAL AND SHALL NOT BE IN AN ADVANCED STATE OF DECOMPOSITION, THE MATERIAL SHALL PASS A 4 INCH SCREEN AND NOT MORE THAN 20 PERCENT BY MASS OF THE MATERIAL SHALL PASS A .1 INCH SIEVE. MAX. LENGTH OF INDIVIDUAL PIECES NOT TO EXCEED 20 INCHES, NO MULCH TO LAY AGAINST COLLAR, (INCIDENTAL)

SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING

ROOT BALL SET ON MOUNDED SUBGRADE CONTRACTOR IS RESPONSIBLE FOR TESTING PERCOLATION RATES PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF POOR DRAINAGE EXISTS.

PROVIDE RODENT PROTECTION ON ALL CONIFEROUS TREES UNLESS OTHERWISE SPECIFIED.

DATE: XX-XX-2007



TYP. 8' 4"X4" CEDAR POST 4' O.C. WITH STEEL ROPE SAFETY RAILS

6" DEPTH ¾"-1 ¼" WASHED RIVER ROCK MAINTENANCE BORDER

(PROVIDE STONE SAMPLE FOR APPROVAL) 18" TO 40" WIDTH (DEPTH) X 24" HEIGHT CONSTRUCT WITH LARGEST BOULDERS AT BASE, MAINTAIN MIN. 9 DEGREE BATTER DO NOT USE CRACKED OR BROKEN BOULDERS

BACKFILL WITH GRAVEL MATERIAL (1 1/2" ANGULAR ROCK)

- 4" PERF. HDPE PIPE — OUTLET TO STORM BMP - FILTER FABRIC

– UNDISTURBED SUBGRADE

FIELDSTONE BOULDER RETAINING WALL SECTION

(No Scale) Library Bay Restoration

XX

GENERAL LANDSCAPE NOTES

(No Scale) Library Bay Restoration

XX

NO

DATE

BY

CONIFEROUS TREE PLANTING DETAIL

REVISION

(No Scale) Library Bay Restoration

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SUBMISSION DATE: MM/DD/YYYY DESIGN BY DRAWN BY

Emmons & Olivier Resources, Inc. 651 Hale Avenue North BEAVER DAM LAKE MANAGEMENT DISTRICT

LIBRARY LAKE RESTORATION NE STORMWATER WETLAND CUMBERLAND, BARRON COUNTY, WISCONSIN

REVEGETATION AND LANDSCAPE DETAILS

LICENSE # #####

XX

EOR PROJECT NO.

w a t e r Oakdale, MN 55128 e c o l o g y Tele: 651.770.8448 community www.eorinc.com

1690 ELM STREET CUMBERLAND, WISCONSIN 54829

STATE PROJECT NO.

CITY PROJECT NO.

GENERAL NOTES

INTENT OF THE LAYOUT.

PRECEDENCE OVER NOTES.

SUBMISSION OF BID.

PLANTS.

1. CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING

3. CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND

REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.

SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.

OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.

SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. SYMBOLS ON PLAN DRAWING TAKE PRECEDENCE OVER SCHEDULES IF

LANDSCAPE PLANTING NOTES

STAKING OF PLANT MATERIAL PRIOR TO DIGGING.

5. PLANT MATERIALS TO BE INSTALLED PER PLANTING DETAILS.

WHERE PLANTING BED MEETS SOD AS SHOWN ON PLANS.

PARTIAL ACCEPTANCE WILL BE CONSIDERED.

LANDSCAPE ARCHITECT.

SOD NOTES

STAKED SECURELY.

ARCHITECT.

SHRUBS ARE TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH

INSTALLATION IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.

1. SOD AREAS DISTURBED DUE TO GRADING UNLESS NOTED OTHERWISE.

1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.

IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.

12. CONIFEROUS PLANTING IS ACCEPTABLE FROM AUGUST 15 TO OCTOBER 1. FALL

ADJUSTMENTS TO PLANTING DATES MUST BE APPROVED IN WRITING BY THE

COMPLETED IN THE IMMEDIATE AREA.

COMPOST TILLED INTO THE TOPSOIL.

2. CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE

4. CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES,

5. CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING

CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS

WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION

CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED

VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO SUBSTANTIAL COMPLETION

NO PLANTS WILL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN

AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. UNLESS NOTED OTHERWISE

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

2. PROPOSED PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE

3. NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS

GRANTED BY THE LANDSCAPE ARCHITECT TO THE CONTRACTOR PRIOR TO THE

4. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO ADJUSTMENT OF

6. PLANTING AREAS RECEIVING GROUND COVER, PERENNIALS, ANNUALS OR VINES SHALL RECEIVE A MINIMUM OF 4" DEPTH OF SCREENED ORGANIC LEAF MULCH

7. TREE WRAPPING MATERIAL SHALL BE TWO-WALLED PLASTIC SHEETING APPLIED FROM

CONIFEROUS TREES ARE TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH AND

SHALL HAVE NO MULCH IN DIRECT CONTACT WITH THE TREE TRUNK. DECIDUOUS

10. CONTRACTOR SHALL WARRANTY NEW PLANT MATERIAL PER MNDOT SPEC. 2571. NO

11. UNLESS NOTED OTHERWISE, THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL

DECIDUOUS PLANTING IS ACCEPTABLE FROM THE FIRST FROST UNTIL NOVEMBER 15.

2. WHERE SOD ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD

JOINTS. ON SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES, SOD SHALL BE

4. UNLESS NOTED OTHERWISE, THE APPROPRIATE DATES FOR SPRING SOD PLACEMENT

5. FALL SODDING IS ACCEPTABLE FROM AUGUST 15 TO NOVEMBER 1. ADJUSTMENTS TO SOD/SEED PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE

3. SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED

PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1

TRUNK FLARE TO FIRST BRANCH. WRAP SMOOTH-BARKED DECIDUOUS TREES

8. 3/16" THICK STEEL EDGER TO BE USED TO CONTAIN SHRUBS, AND PERENNIALS

DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT.

WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR

MATERIALS UNTIL TIME OF SUBSTANTIAL COMPLETION. REPAIR OF ACTS OF

DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE

LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO

LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR

CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.

SHEET 9 OF 9 SHEETS