

Statement of Estimated Quantities

Item No.	Item Code	Item	Unit	Estimated Quantity	As-Built Quantity
Part 1 - General/Erosion Control					
1	619.1000	MOBILIZATION	LS	1	
2	643.0100	TRAFFIC CONTROL	LS	1	
3	628.7504	SEDIMENT CONTROL LOG, TYPE WOOD FIBER - INSTALL, MAINT., REMOVAL	LF	745	
4	SPECIAL	TEMPORARY TREE PROTECTION FENCE	LF	305	
5	628.7560	STABILIZED CONSTRUCTION EXIT - INSTALL, MAINT., REMOVAL	EA	1	
6	628.7000	STORM DRAIN INLET PROTECTION - INSTALL, MAINT., REMOVAL	EA	5	
7	628.2002	EROSION CONTROL BLANKET - CLASS 1, TYPE A (NET FREE)	SY	1057	
8	SPECIAL	ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES	ALLOW	1	

Part 2 - Removals

9	201.0110	CLEAR AND GRUBB	LS	1	
10	204.0280	REMOVE EXISTING PIPE	LS	1	
11	204.0210	REMOVE EXISTING MANHOLE	EA	1	
12	204.0110	SAWCUT AND REMOVE ASPHALTIC SURFACE	SY	340	

Part 3 - Grading

13	205.0100	COMMON EXCAVATION	CY	1713	
14	625.0500	SALVAGE & RESPREAD TOPSOIL	SY	3050	
15	606.0200	RIPRAP, MEDIUM (FOR BERMS)	CY	38	

Part 4 - Storm Sewer

16	SPECIAL	CONNECTION TO EXISTING STORM SEWER	EA	1	
17	611.0410	RECONSTRUCT EXISTING CATCH BASIN	EA	1	
18	611.0000	ST MANHOLE 1 - 48" DIA.	EA	1	
19	611.2006	ST MANHOLE 2 - 72" DIA. W/SUMP	EA	1	
20	611.2005	ST MANHOLE 3 - 60" DIA. LOW FLOW DIVERTER	EA	1	
21	612.0000	30" RCP STORM SEWER	LF	108	
22	612.0000	12" RCP STORM SEWER	LF	24	
23	612.0000	30" HDPE BYPASS PIPE	LF	58	
24	SPECIAL	SEDIMENT CHAMBER, 6020 WQU	EA	1	
25	611.0000	48" DIA. PRECAST CONCRETE BYPASS MANHOLE	EA	2	
26	SPECIAL	24" DIA. HDPE RISER PIPE	EA	2	
27	SPECIAL	REINFORCED CONCRETE COLLAR (RISER MANHOLE CAP)	EA	2	
28	SPECIAL	REINFORCED CONCRETE COLLAR (RISER CONNECTION AT TANK)	EA	2	
29	611.0530	NEENAH FRAME AND CASTING	EA	0	
30	SPECIAL	30" FLARED END SECTION	EA	1	
31	606.0200	RIPRAP, MEDIUM (W FILTER FABRIC)	CY	8	
32	SPECIAL	OUTLET STRUCTURE (2x60" DIA. STMH AND FRAME & CASTINGS, 30" RCP)	EA	1	

Part 5 - Restoration

33	350.0115	SUBGRADE REPAIR - ROADWAY	SY	340	
34	465.0110	BITUMINOUS PAVEMENT REPAIR - ROADWAY	SY	340	
35	630.0175	SEED - WISDOT MIX 75	LB	19.00	
36	630.0400	SEED - NURSE CROP	LB	63.00	
37	628.2002	EROSION MAT (CLASS I, TYPE A)	SY	3000.00	
38	632.0101	DECIDUOUS TREE	EA	22	
39	632.0201	DECIDUOUS SHRUB	EA	78	
40	631.1000	TURF SOD	SY	100	
41	628.2031	TURF REINFORCEMENT MAT - CLASS III, TYPE A	SY	80	
42	SPECIAL	2-Year Vegetation Establishment/Maintenance Warranty Period (To Start After Final Payment)	LS	1	

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 2016 SPECIFICATIONS FOR CONSTRUCTION.
- SEE SITE RESTORATION 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. ONE 11 FOOT MINIMUM WIDTH LANE IN EACH DIRECTION SHALL BE PROVIDED AT ALL TIMES.

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.

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.
- SALVAGED WATER MAIN PIPE, FITTINGS, VALVES, HYDRANTS OR OTHER APPURTENANCES SHALL BE INSPECTED TO DETERMINE SUITABILITY FOR REUSE. ALWAYS REPLACE GASKETS, BOLTS AND NUTS, AND RETAINING GLANDS WHEN REINSTALLING.
- 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 TURF HAS BEEN ESTABLISHED.
- 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 WI/DOT SPECIFICATIONS.
- 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 REQUIRED FOR CONSTRUCTION.
- 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.
- 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.
- ON 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: 12/14/2016
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NOT FOR CONSTRUCTION

6					
5					
4					
3					
2					
1	12-14-2016	DRL	80% PLAN SET - NOT FOR CONSTRUCTION		
NO	DATE	BY	REVISION		

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DEREK R. LASH
DATE: 12-06-2016

LICENSE # 40938-006

SUBMISSION DATE:
12-06-2016

DESIGN BY DRL DRAWN BY BH

FOR PROJECT NO. 00909-0011

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

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

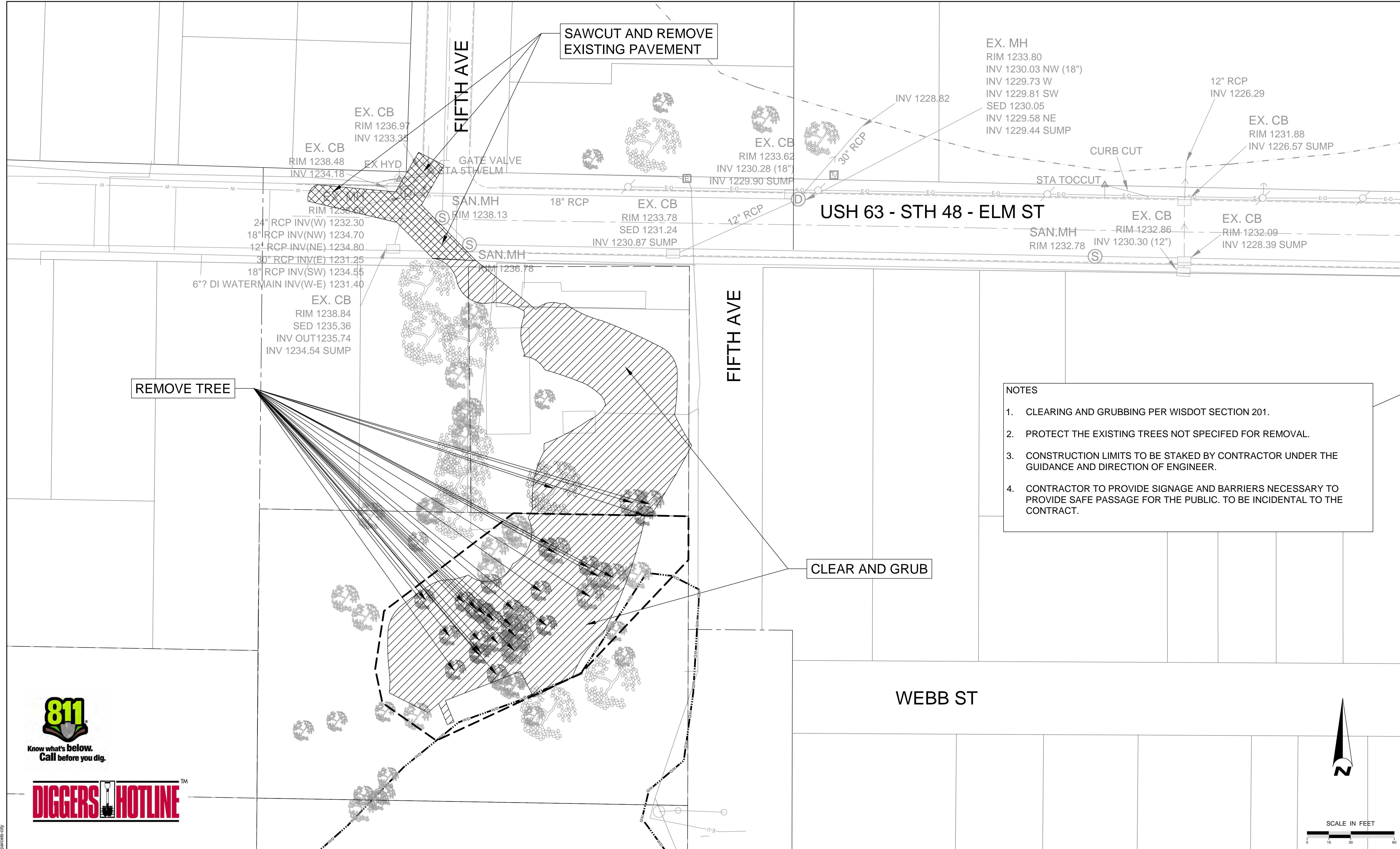
LIBRARY LAKE SW WETLAND
CUMBERLAND, BARRON COUNTY,
WISCONSIN
 STATE PROJECT NO. --- CITY PROJECT NO. 00909-0011

SEQ & NOTES

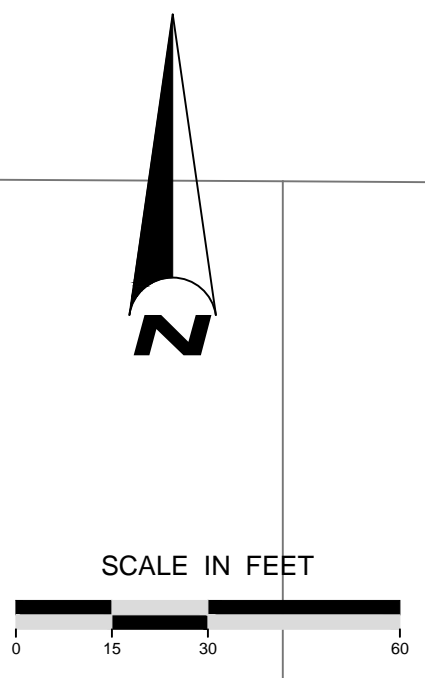
SHEET 02 OF 09 SHEETS



Plot Date: 12/06/2016
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- NOTES**
- CLEARING AND GRUBBING PER WISDOT SECTION 201.
 - 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. TO BE INCIDENTAL TO THE CONTRACT.



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LIBRARY LAKE SW WETLAND
 CUMBERLAND, BARRON COUNTY, WISCONSIN

STATE PROJECT NO. ---
 CITY PROJECT NO. 00909-0011

EXISTING CONDITIONS & REMOVALS PLAN

SHEET 03 OF 09 SHEETS

FIFTH AVE

USH 63 - STH 48 - ELM ST

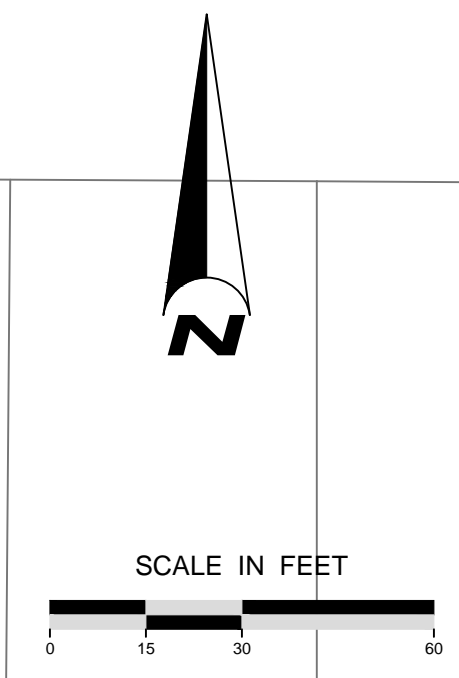
FIFTH AVE

WEBB ST

- CONSTRUCTION NOTES**
1. SEE PLAN SHEET 2 OF 9 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. TO BE INCIDENTAL TO THE CONTRACT.
 4. TYPICAL SLOPE OF 4:1 UNLESS NOTED OTHERWISE.
 5. WATER TABLE ASSUMED TO BE AT 1232.00 (0.5 FT ABOVE LAKE NWL).

TOP OF BERM ELEV = 1233.5
 WETLAND BASIN OVERFLOW = 1233.2

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



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GRADING PLAN
 SHEET 04 OF 09 SHEETS

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 Drawing Name: X:\Clients_Privates\0909_Beaver_Dam_Lake_Assoc\0011_Library_Lake_SW_Wetland\08_GIMS_ProjectName\dgl\Library_Lake_SW_Plan_Sht_00909-0011.dwg
 Xrefs: X:\BASE\00909-0011.dwg

ST MH 2
72" DIA. W/ SUMP
RIM ± 1238.70
INV 1234.50
SUMP 1230.50

REPLACE OR REBUILD EXISTING CB
CB 1
RIM 1236.97
INV 1234.60

REMOVE EXISTING MH
PLUG 30" RCP EAST & 24" RCP WEST.
MH BASE MAY LEFT IN PLACE.
PRESERVE EXISTING WATER MAIN.

ST MH 1 LOCATION TBD, AT
POINT WHERE EXISTING 24"
RCP INVERT IS 1235.50.
60" DIA.
RIM ± 1241.00
INV 1235.50
PLUG DOWNSTREAM 24" RCP.

ST MH 3
60" DIA LOW FLOW DIVERTER
RIM ± 1237.50
INV 1233.80
INV 15" 1233.35

RESTORE ALL PAVEMENT AND
CURB PER WISDOT REQUIREMENTS

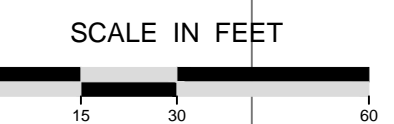
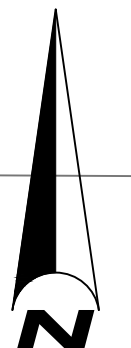
FES & TRASH GUARD
INV 1233.00
8 CY RIPRAP (SEE DETAIL 01/09)

PRETREATMENT STRUCTURE, PRINSCO
SWQU OR EQUAL. 20' L x 5' D TWO
CHAMBER SEDIMENT & FLOATABLES
REMOVAL. ANCHOR FOR WATER TABLE
BUOYANCY.
TOP OF STRUCTURE = 1235 ±
INV 15" HDPE IN & OUT = 1233.35
STRUCTURE INV = 1229.60

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REINFORCED TURF
OVERFLOW ELEV =
1233.2

OUTLET STRUCTURE (SEE DETAIL)
OUTFLOW ELEV 1232.80 = NWL



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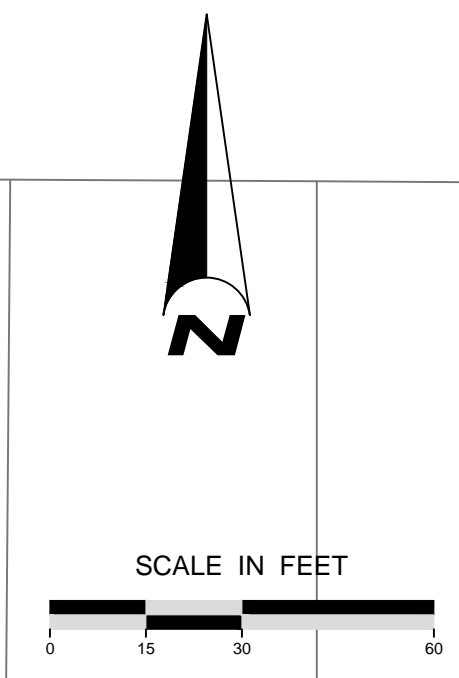
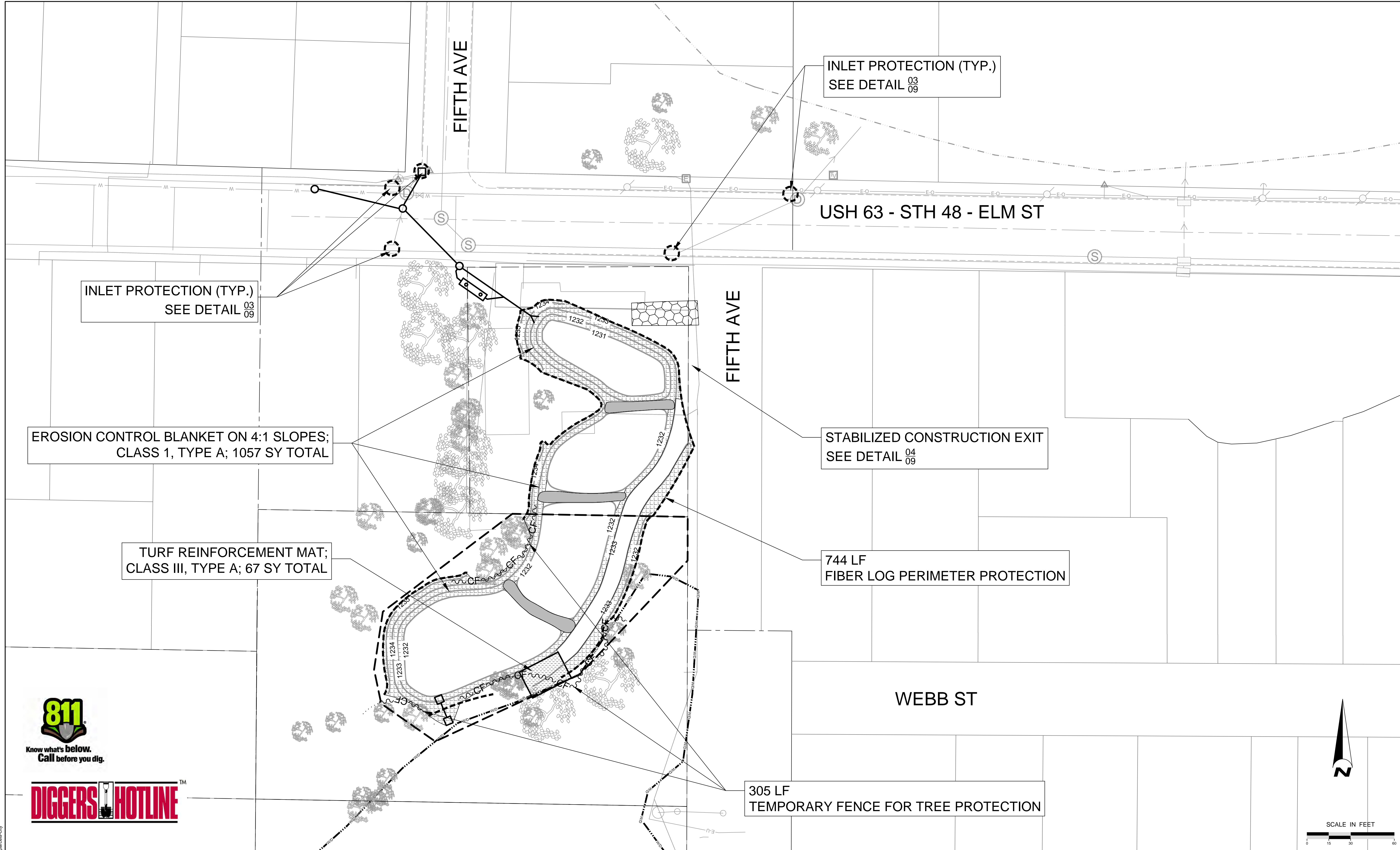
BEAVER DAM LAKE
MANAGEMENT DISTRICT
PO BOX 232
CUMBERLAND, WISCONSIN 54829

LIBRARY LAKE SW WETLAND
CUMBERLAND, BARRON COUNTY,
WISCONSIN

STATE PROJECT NO. ---
CITY PROJECT NO. 00909-0011

DRAINAGE PLAN

SHEET 05 OF 09 SHEETS



NOT FOR CONSTRUCTION

NO	DATE	BY	REVISION
6			
5			
4			
3			
2			
1	12-06-2016	DRL	80% PLAN SET - NOT FOR CONSTRUCTION

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 WISCONSIN.

DEREK R. LASH
DATE: 12-06-2016
LICENSE # 40938-006

SUBMISSION DATE:
12-06-2016

DESIGN BY: DRL
DRAWN BY: BH

EOR PROJECT NO.
00909-0011

EOR Emmons & Olivier Resources, Inc.
651 Hale Avenue North
Oakdale, MN 55128
Tel: 651.770.8448
www.eorinc.com

BEAVER DAM LAKE
MANAGEMENT DISTRICT
PO BOX 232
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LIBRARY LAKE SW WETLAND
CUMBERLAND, BARRON COUNTY,
WISCONSIN

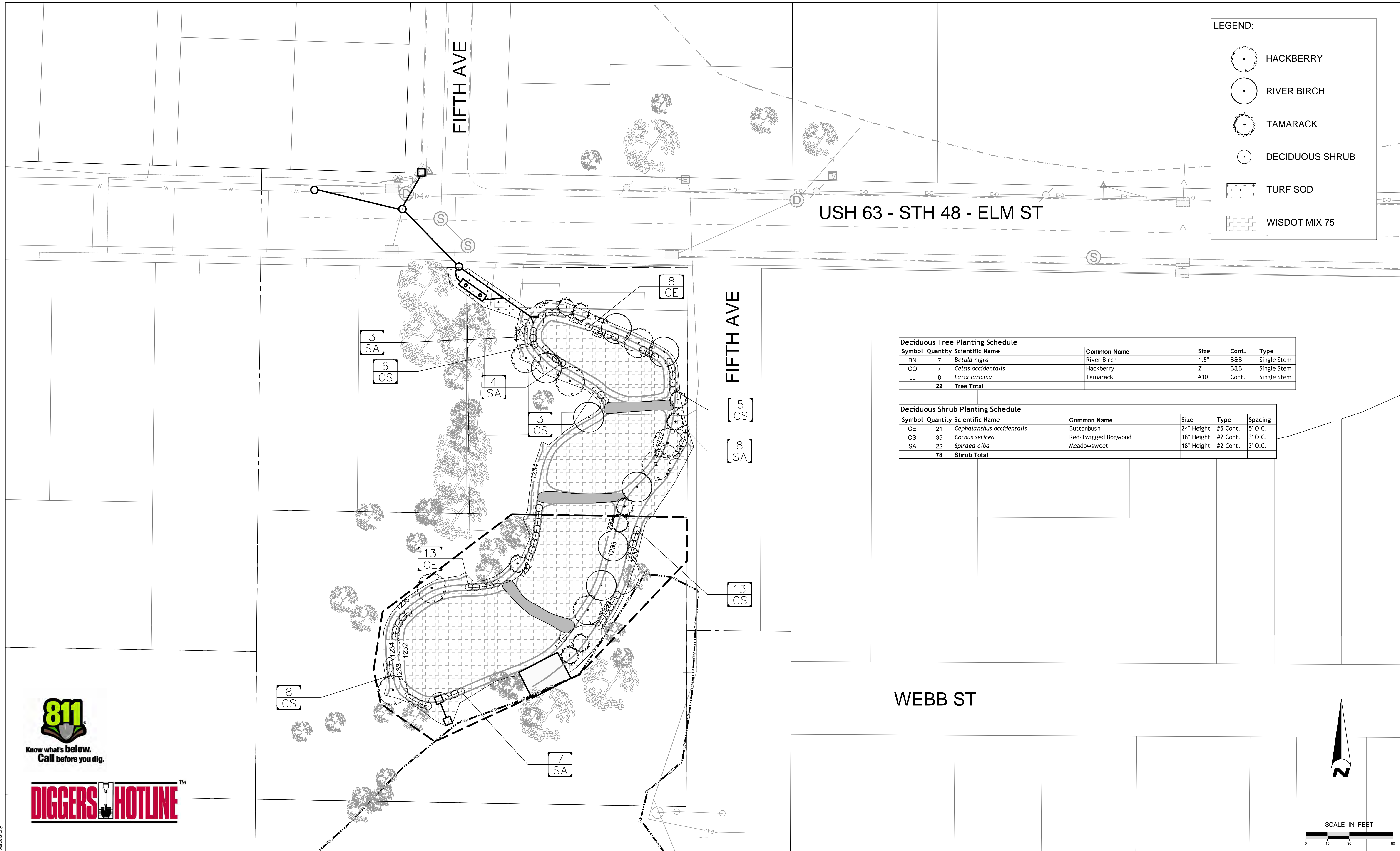
EROSION & SEDIMENT CONTROL PLAN

SHEET 06 OF 09 SHEETS

Plot Date: 12/06/2016
 Drawing Name: X:\Clients_Privates\0909_Beaver_Dam_Lake_Assoc\0011_Library_Lake_SW_Wetland\08_GIMS_ProjectName\dgl\Library_Lake_SW_Plan_Sht_00909-0011.dwg
 Xrefs: X:\BASE\08\09\00112.parcels-city

LEGEND:

	HACKBERRY
	RIVER BIRCH
	TAMARACK
	DECIDUOUS SHRUB
	TURF SOD
	WISDOT MIX 75



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
	22	Tree Total				

Deciduous Shrub Planting Schedule

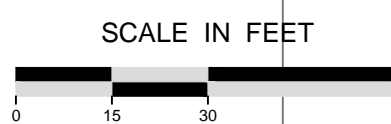
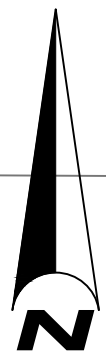
Symbol	Quantity	Scientific Name	Common Name	Size	Type	Spacing
CE	21	<i>Cephalanthus occidentalis</i>	Buttonbush	24" Height	#5 Cont.	5' O.C.
CS	35	<i>Cornus sericea</i>	Red-Twigged Dogwood	18" Height	#2 Cont.	3' O.C.
SA	22	<i>Spiraea alba</i>	Meadowsweet	18" Height	#2 Cont.	3' O.C.
	78	Shrub Total				

WEBB ST

FIFTH AVE

FIFTH AVE

USH 63 - STH 48 - ELM ST



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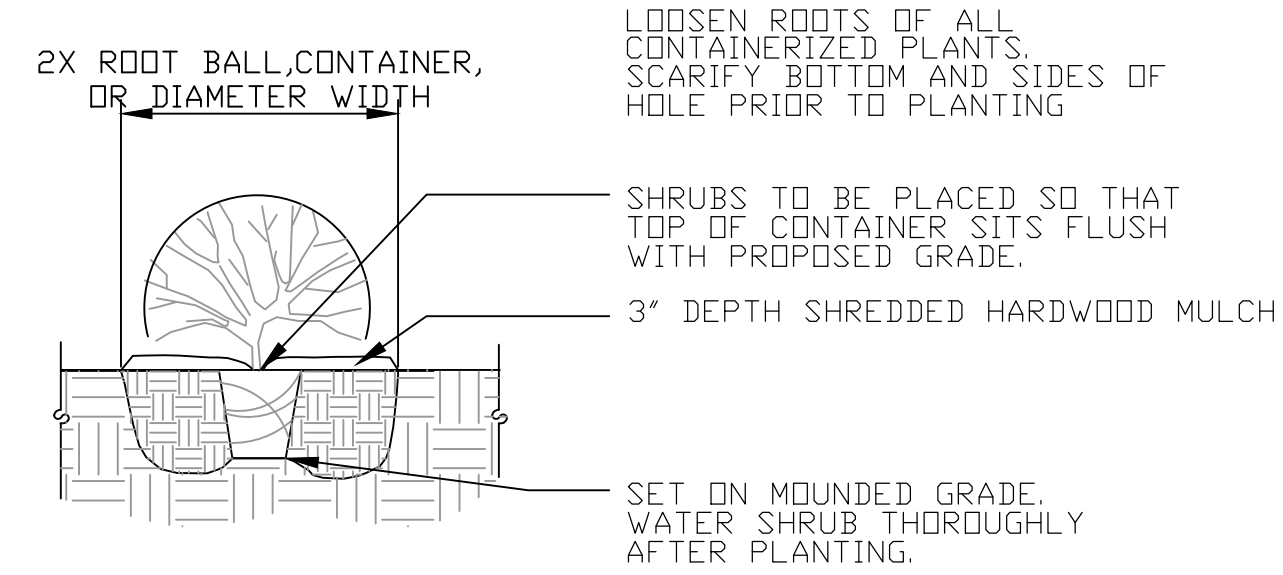
LANDSCAPE & RESTORATION PLAN

SHEET 07 OF 09 SHEETS

Plot Date: 12/06/2016
 Drawing Name: X:\Clients_Privale\0909_Beaver_Dam_Lake_Assoc\0011_Library_Lake_SW_Wetland\08_GIMS_ProjectName\dgl\Library_Lake_SW_Plan_Sch_00909-0011.dwg
 Xrefs: X:\BASE_08\09\0012_parallel-city

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.



01 08 SHRUB PLANTING DETAIL

(No Scale) Library Lake SW Wetland

LANDSCAPE PLANTING NOTES

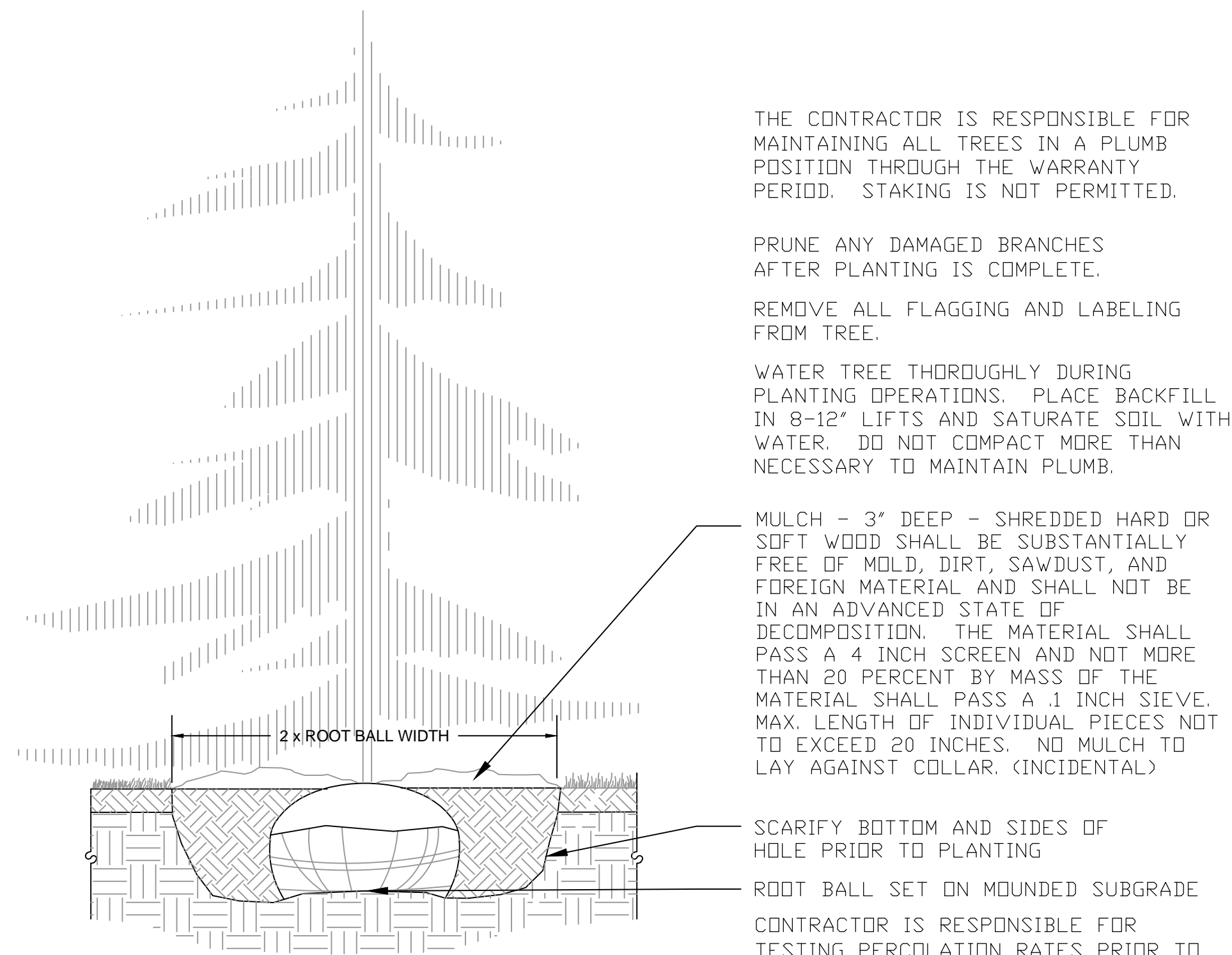
- NO PLANTS WILL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- PROPOSED PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT 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 PRIOR TO THE SUBMISSION OF BID.
- 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.
- CONTRACTOR SHALL WARRANTY NEW PLANT MATERIAL FOR A PERIOD OF ONE (1) CALENDAR YEAR. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

SOD NOTES

- SOD AREAS DISTURBED DUE TO GRADING UNLESS NOTED OTHERWISE.
- WHERE SOD ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.
- SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED JOINTS. UNLESS NOTED OTHERWISE, THE APPROPRIATE DATES FOR SPRING SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.
- FALL SODDING IS ACCEPTABLE FROM AUGUST 15 TO NOVEMBER 1. ADJUSTMENTS TO SOD/SEED PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

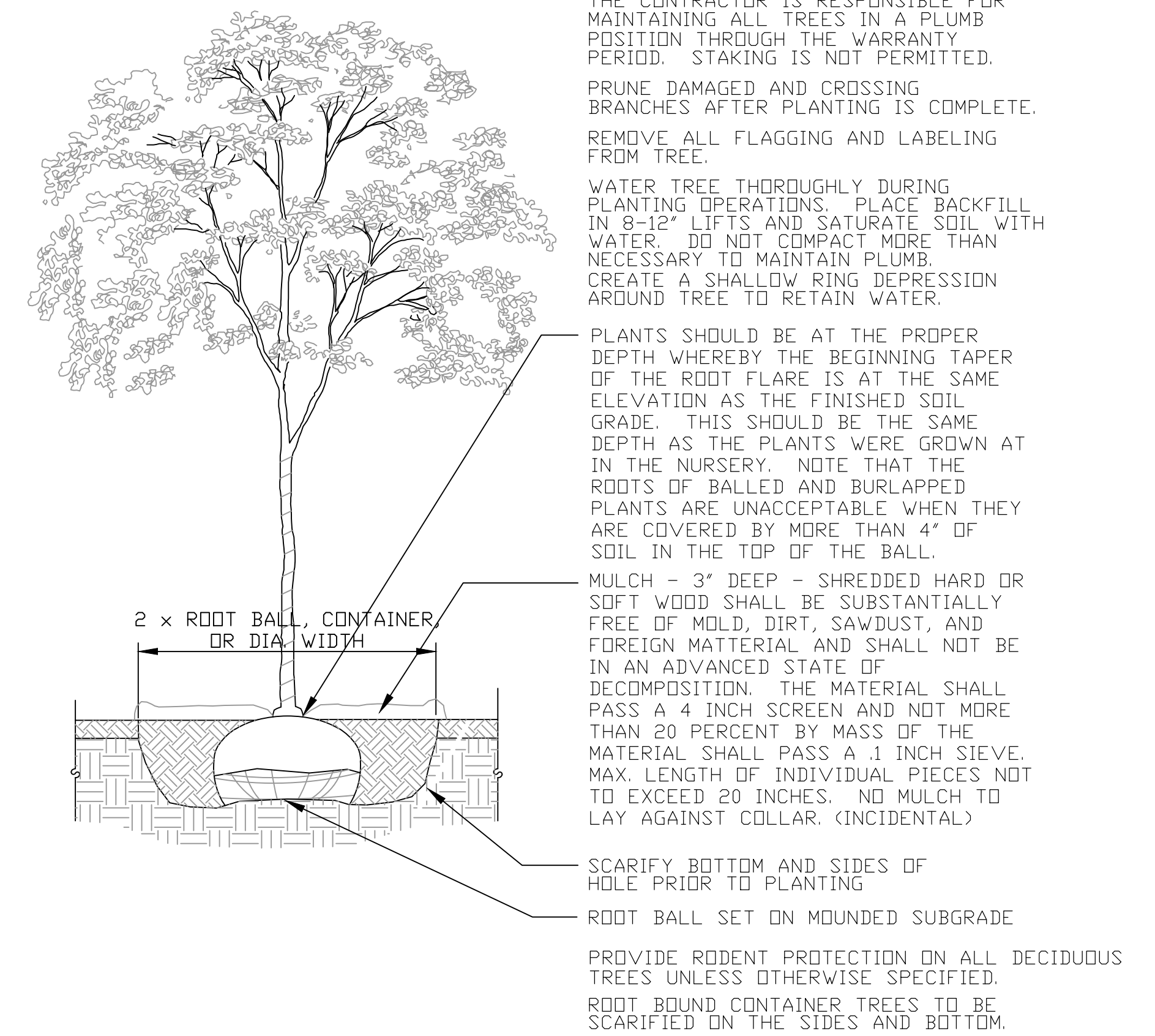
SEEDING NOTES

- RE-SPREAD SALVAGED TOPSOIL AND PREPARE SEED BED PER WISDOT SPEC. SECTION 630. USE A TRILLION BROADCAST SPREADER OR OTHER METHOD TO BROADCAST SEED AS APPROVED BY LANDSCAPE ARCHITECT. DO NOT ROLL SEED AFTER SPREADING.
- APPLY WISDOT SEED MIX 75 AT A RATE OF 30 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.
- SEED SHALL BE LOCAL ECOTYPE - SOURCED WITHIN 150 MILES OF THE PROJECT SITE.
- DO NOT APPLY FERTILIZER.



02 08 CONIFEROUS TREE PLANTING DETAIL

(No Scale) Library Lake SW Wetland



03 08 DECIDUOUS TREE PLANTING DETAIL

(No Scale) Library Lake SW Wetland

Plot Date: 12/06/2016
 Drawing Name: X:\Clients_P\Private\0909_Beaver_Dam_Lake_SW_Wetland\08_GIMS_ProjectName.dwg\Library_Lake_SW_Plan_Sht_00909-0011.dwg
 Xrefs: X:\BASE_0909\0012_parallel-city

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DESIGN BY: DRL DRAWN BY: BH

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LANDSCAPE NOTES & DETAILS
SHEET 08 OF 09 SHEETS

NOT FOR CONSTRUCTION

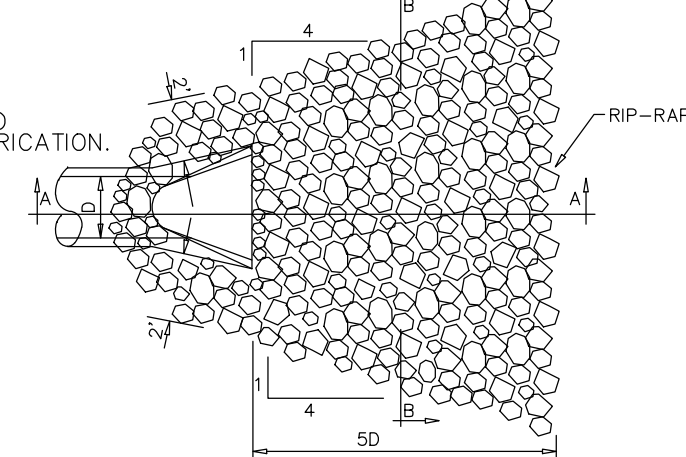
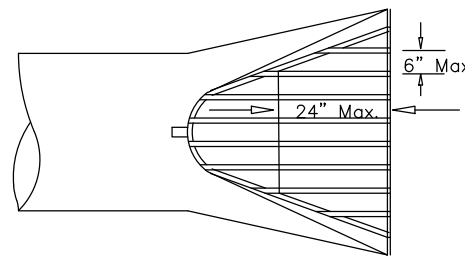
RIP-RAP REQUIRED SIZE OF PIPE	CU. YD.
54" & Over	16
36" to 48"	12
27" to 33"	8
24" & Less	4

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

6-12" RIP-RAP STONE

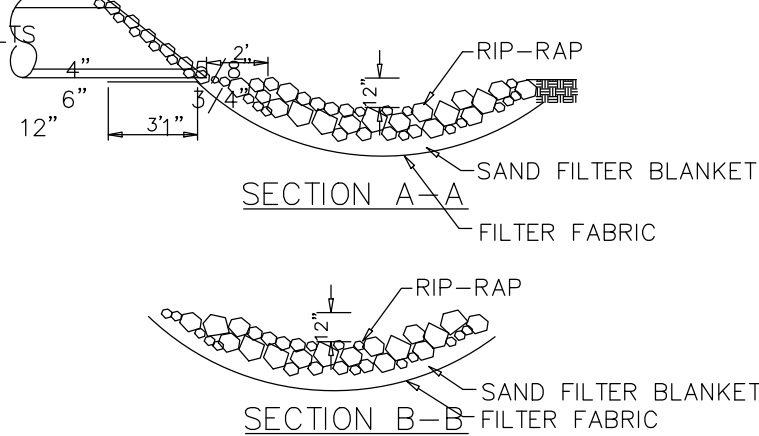
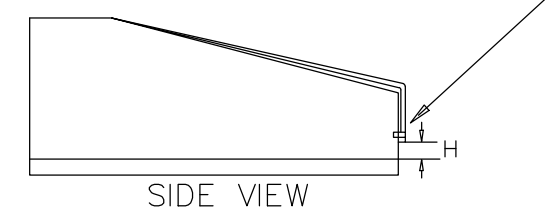
THE LAST 3 PIPE JOINTS 2 TIE BOLT FASTENERS PER JOINT INSTALLED AT 60 DEGREES FROM TOP OR BOTTOM OF PIPE

PROVIDE 3 CLIPS TO FASTEN TRASH GUARD TO FLARED END. HOT DIP GALVANIZE AFTER FABRICATION.



SIZE OF BARS	"H"
21" to 42"	3/4"
48" to 72"	1 1/4"

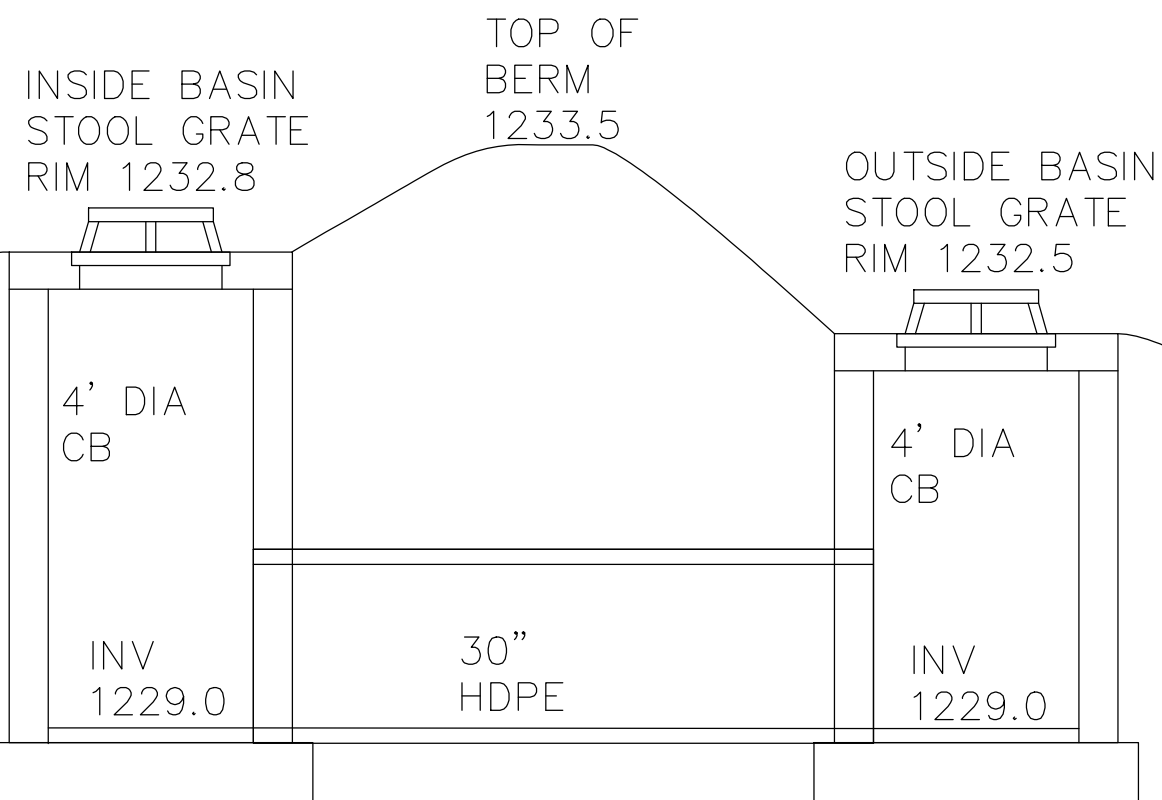
ANCHOR BOTH SIDES



01 FLARED END SECTION & RIPRAP DETAIL

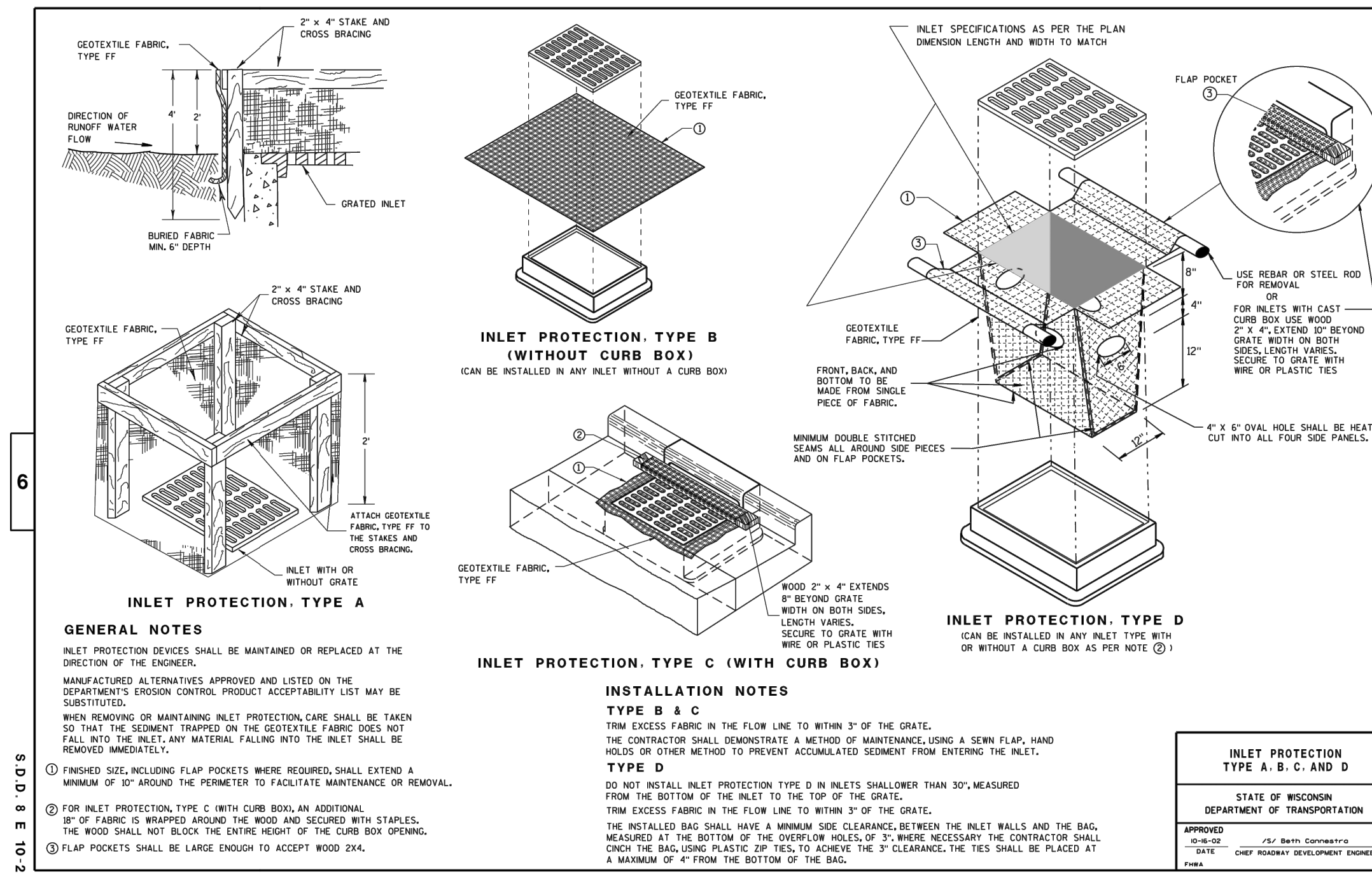
09 (No Scale) Library Lake SW Wetland

PLACE RIPRAP TO 3 FT ALL AROUND BOTH STRUCTURES



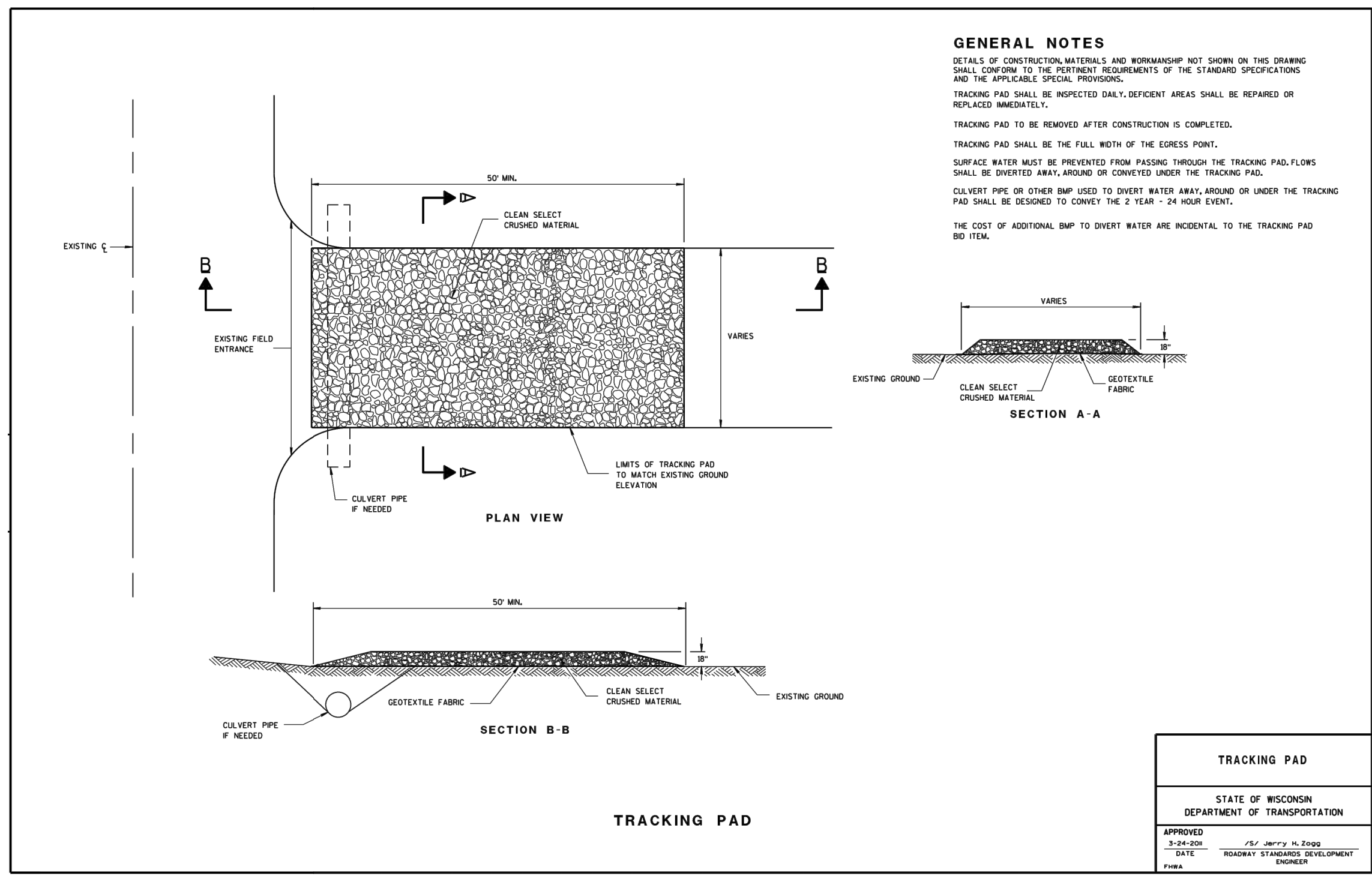
02 OUTLET STRUCTURE DETAIL

09 (No Scale) Library Lake SW Wetland



03 INLET PROTECTION DETAIL

09 (No Scale) Library Lake SW Wetland



GENERAL NOTES
 DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
 TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
 TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.
 TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.
 SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY AROUND OR CONVEYED UNDER THE TRACKING PAD.
 CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.
 THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	DATE
<i>Jerry H. Zogg</i>	3-24-2016
CHIEF ROADWAY DEVELOPMENT ENGINEER	ENGINEER

04 CONSTRUCTION ENTRANCE - TRACKING PAD DETAIL

09 (No Scale) Library Lake SW Wetland

Plot Date: 12/06/2016
 Drawing Name: X:\Clients_Privately\0909_Beaver_Dam_Lake_Assoc\0011_Library_Lake_SW_Wetland\08_GIMS_ProjectName\dwg\Library_Lake_SW_Plan_Sht_00909-0011.dwg
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DETAILS
 SHEET 09 OF 09 SHEETS

