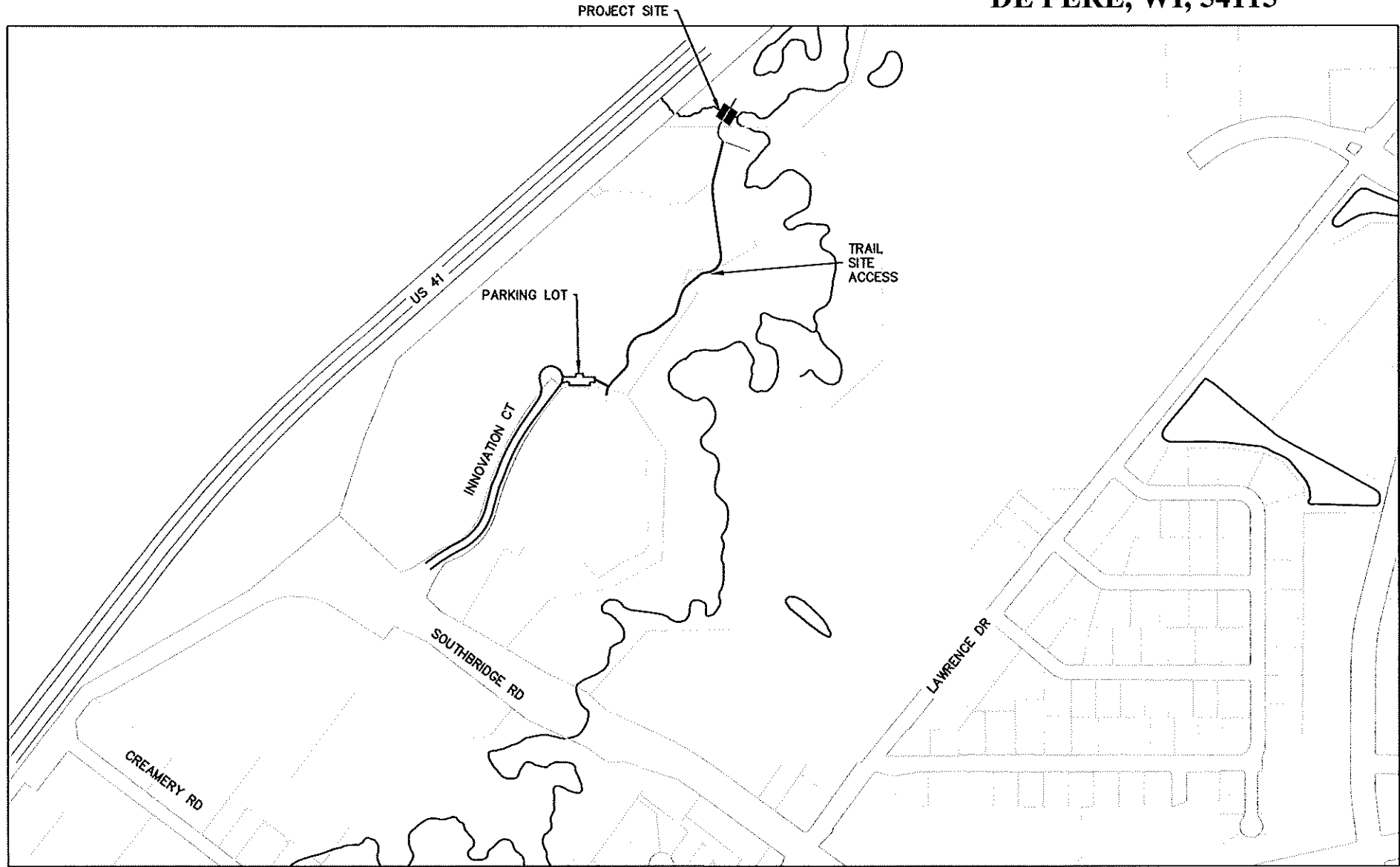


PROJECT# 13-06
HEMLOCK CREEK
STREAM CROSSING - REBID

CITY OF DE PERE



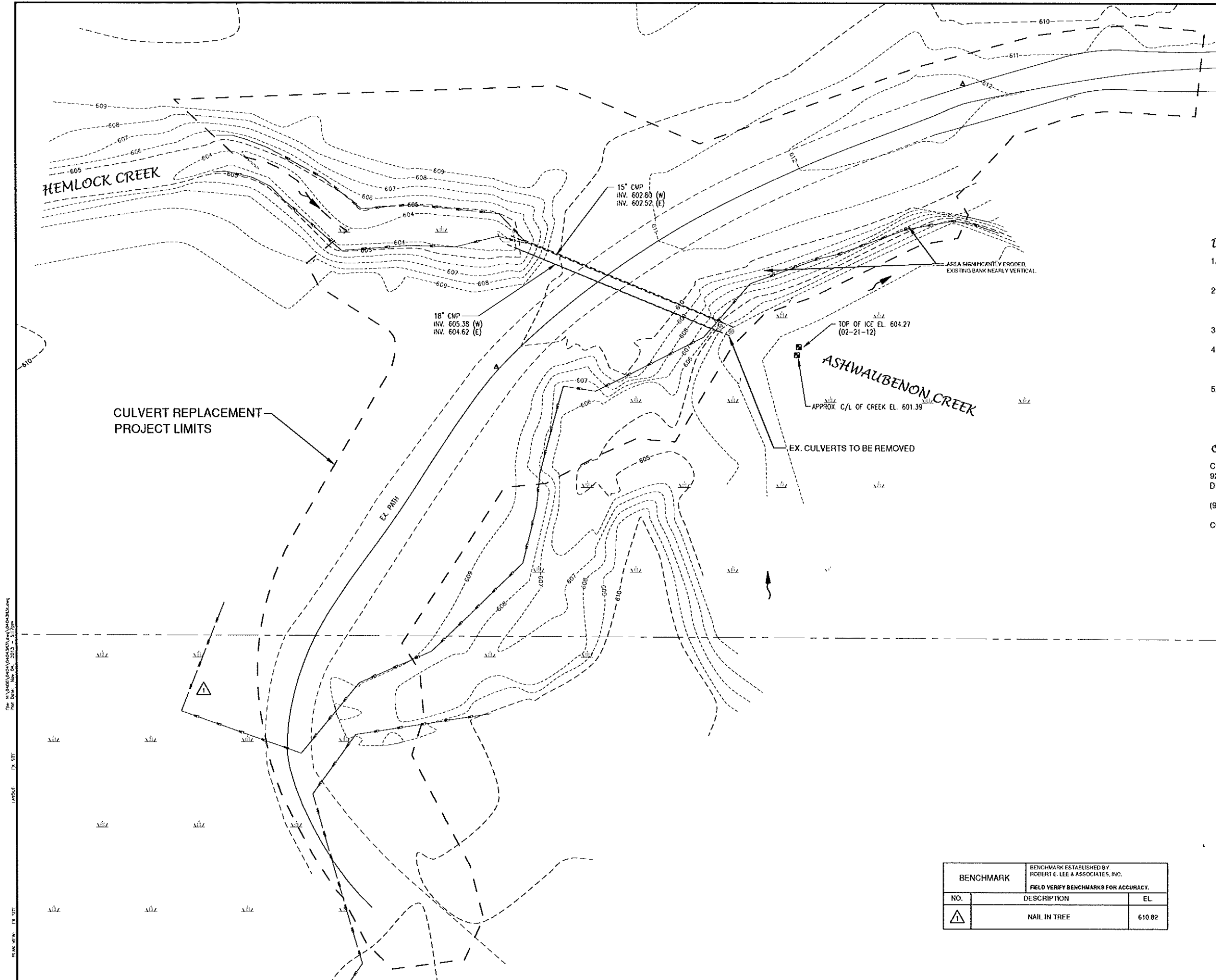
ENGINEER DIVISION
925 S. SIXTH ST
DE PERE, WI, 54115



SITE LOCATION MAP
N.T.S.



SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING SITE CONDITIONS AND DEMOLITION PLAN
3-4	CULVERT REPLACEMENT PLAN
5	EROSION CONTROL-DITCH CHECK DETAILS
6	EROSION CONTROL-SHEET FLOW DETAILS
7	SITE ACCESS ROAD CONSTRUCTION LAYOUT
CITY OF DE PERE BOARD OF PUBLIC WORKS	
11/6/13 DATE	<i>E. P. Lehman</i> CITY ENGINEER
11/6/13 DATE	<i>James M. Dole</i> CITY ADMINISTRATOR
11/6/13 DATE	<i>Michael J. Walsh</i> MAYOR
SHEET NO. 1	



LEGEND

TO BE DEMOLISHED

TREE/SHRUB TO BE REMOVED

R/W LINE

PROPERTY LINE

EASEMENT LINE

BUILDING SETBACK LINE

SECTION LINE

- DEMOLITION NOTES**
- EXISTING ASPHALT AND BASE COURSE MAY BE PULVERIZED AND STOCKPILED ON SITE FOR FUTURE USE.
 - EXISTING GAS, ELECTRIC, CABLE TELEVISION AND TELEPHONE TO BE REMOVED AND/OR RELOCATED BY OTHERS. WORK SHALL BE COORDINATED BY GENERAL CONTRACTOR.
 - ALL MISCELLANEOUS STRUCTURES SHALL BE REMOVED.
 - DRIVEWAY OPENINGS SHALL BE REMOVED AND CURB OPENINGS SHALL BE CLOSED IN ACCORDANCE WITH STANDARD DETAIL "CURB REMOVAL". SEE DETAIL SHEETS.
 - ALL TREES, SHRUBS AND BRUSH WITHIN PROJECT LIMITS SHALL BE CLEARED AND GRUBBED.

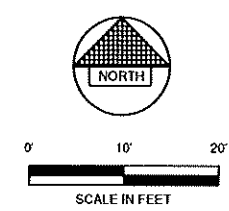
OWNER INFORMATION:

CITY OF DE PERE
925 S. SIXTH STREET
DE PERE, WI. 54115

(920) 339-4072 (EXT. 2239)

CONTACT: KAREN HEYRMAN, P.E.

BENCHMARK		
BENCHMARK ESTABLISHED BY: ROBERT E. LEE & ASSOCIATES, INC.		
FIELD VERIFY BENCHMARKS FOR ACCURACY.		
NO.	DESCRIPTION	EL.
△	NAIL IN TREE	610.82



\\s01\projects\13-06\13-06.dwg, 10/21/2013, 2:17pm, JLS, 1/4" = 10', 1/8" = 20', 1/16" = 40', 1/32" = 80', 1/64" = 160', 1/128" = 320', 1/256" = 640', 1/512" = 1280', 1/1024" = 2560', 1/2048" = 5120', 1/4096" = 10240', 1/8192" = 20480', 1/16384" = 40960', 1/32768" = 81920', 1/65536" = 163840', 1/131072" = 327680', 1/262144" = 655360', 1/524288" = 1310720', 1/1048576" = 2621440', 1/2097152" = 5242880', 1/4194304" = 10485760', 1/8388608" = 20971520', 1/16777216" = 41943040', 1/33554432" = 83886080', 1/67108864" = 167772160', 1/134217728" = 335544320', 1/268435456" = 671088640', 1/536870912" = 1342177280', 1/1073741824" = 2684354560', 1/2147483648" = 5368709120', 1/4294967296" = 10737418240', 1/8589934592" = 21474836480', 1/17179869184" = 42949672960', 1/34359738368" = 85899345920', 1/68719476736" = 171798691840', 1/137438953472" = 343597383680', 1/274877906944" = 687194767360', 1/549755813888" = 1374389534720', 1/1099511627776" = 2748779069440', 1/2199023255552" = 5497558138880', 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0' 10' 20'
SCALE IN FEET

CONSTRUCT LOW FLOW CHANNEL
TO PR. 96" CMP.
SEE TYPICAL CHANNEL SECTION

CULVERT REPLACEMENT
PROJECT LIMITS
(0.25 ACRES)

30" - 12" CMP
U/S INV 609.5
D/D INV 608.0

400 S.F. WETLAND IMPACTS

ALUMINUM HEADWALL

84" DIA DUAL WALL CMP
U/S INV 603.5
D/S INV 603.0

HEAVY RIPRAP REQ'D.

ALUMINUM HEADWALL

EXTRA HEAVY RIPRAP REQ'D.

ROCK FILLED EROSION
CONTROL BAGS

ASHWAUBENON CREEK

96" DIA DUAL WALL CMP
U/S INV 602.5
D/S INV 602.0

CONSTRUCT LOW FLOW CHANNEL
FROM 96" CMP TO ASHWAUBENON CREEK,
SEE TYPICAL CHANNEL SECTION

LEGEND

- T/W 999.99 TOP OF HEADWALL / WINGWALL ELEVATION
X SILT FENCE
DRAINAGE FLOW ARROW

BENCHMARK		
BENCHMARK ESTABLISHED BY: ROBERT E. LEE & ASSOCIATES, INC. FIELD VERIFY BENCHMARKS FOR ACCURACY.		
NO.	DESCRIPTION	EL.
△	NAIL IN TREE	610.82

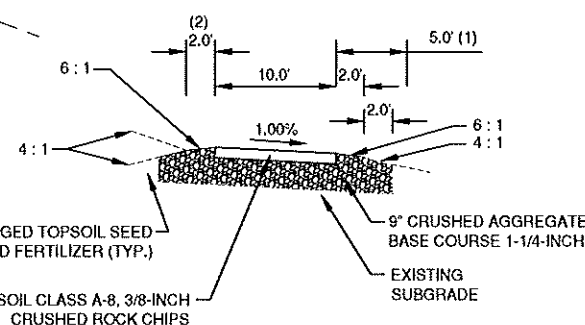
NOTE

- ALL DISTURBED AREA SHALL BE SEEDED, A NON TOXIC TACKIFIER SHALL BE APPLIED, AND EROSION MATT SHALL BE PLACED ON ALL SLOPES GREATER THAN 8H:1V.

EROSION CONTROL

NOTE: ALL EROSION CONTROL PRACTICES INDICATED ON THIS PLAN ARE APPROXIMATE LOCATIONS ONLY. THE ACTUAL SITE MAY REQUIRE MORE OR LESS EROSION CONTROL DEPENDING ON THE CURRENT CONDITION OF THE SITE.

- SILT FENCE IS REQUIRED DOWNSLOPE OF ANY DISTURBED LAND THAT MAY CARRY SEDIMENTS OFF SITE.
- A TRACKING PAD IS REQUIRED AT ANY INGRESS/EGRESS LOCATION, WHERE SEDIMENT MAY BE TRACKED OFF-SITE.
- SEDIMENT BASKET SHALL BE USED FOR ANY SITE DEWATERING.



TYPICAL FINISHED SECTION WALKING PATH

(STA. 19+50 TO STA. 22+50)

NOTE:

- A MINIMUM OF 5 FEET SEPARATION REQUIRED FROM EDGE OF BANK
- A STANDARD SLOPE WIDTH OF 2 FEET IS TYPICAL BUT MAY BE EXTENDED TO 5 FEET IF NEEDED

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
1	7/12/13	PHK	REVISED PER OWNER INITIAL COMMENTS				

PROJECT 13-06
HEMLOCK CREEK STREAM CROSSING - REBID
CITY OF DE PERE
BROWN COUNTY, WISCONSIN

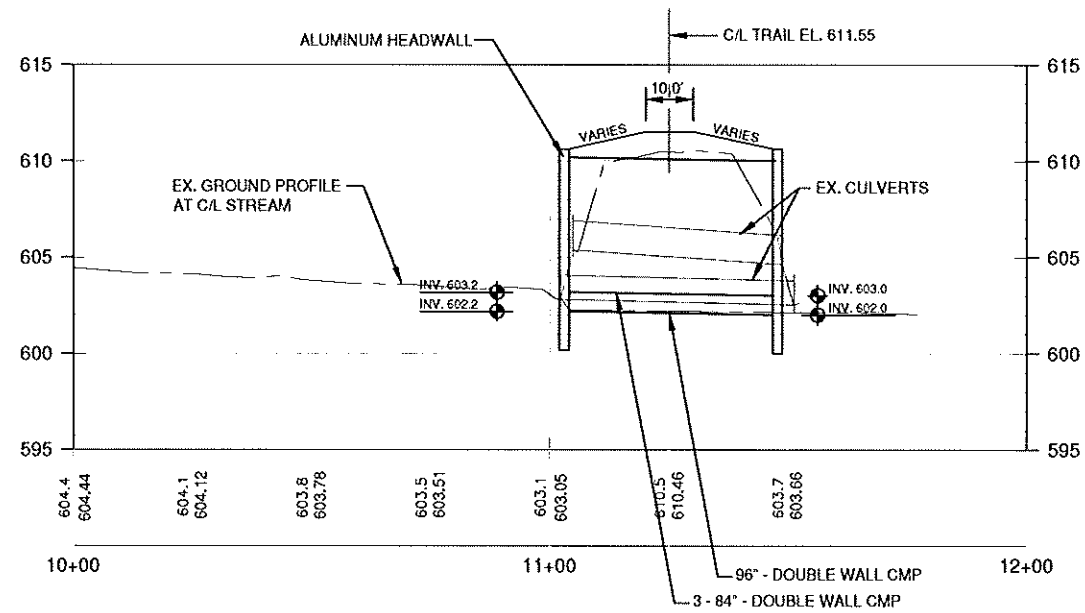
CULVERT REPLACEMENT PLAN

DATE
10/21/2013
FILE
03243510.FINAL
JOB NO.
0304553

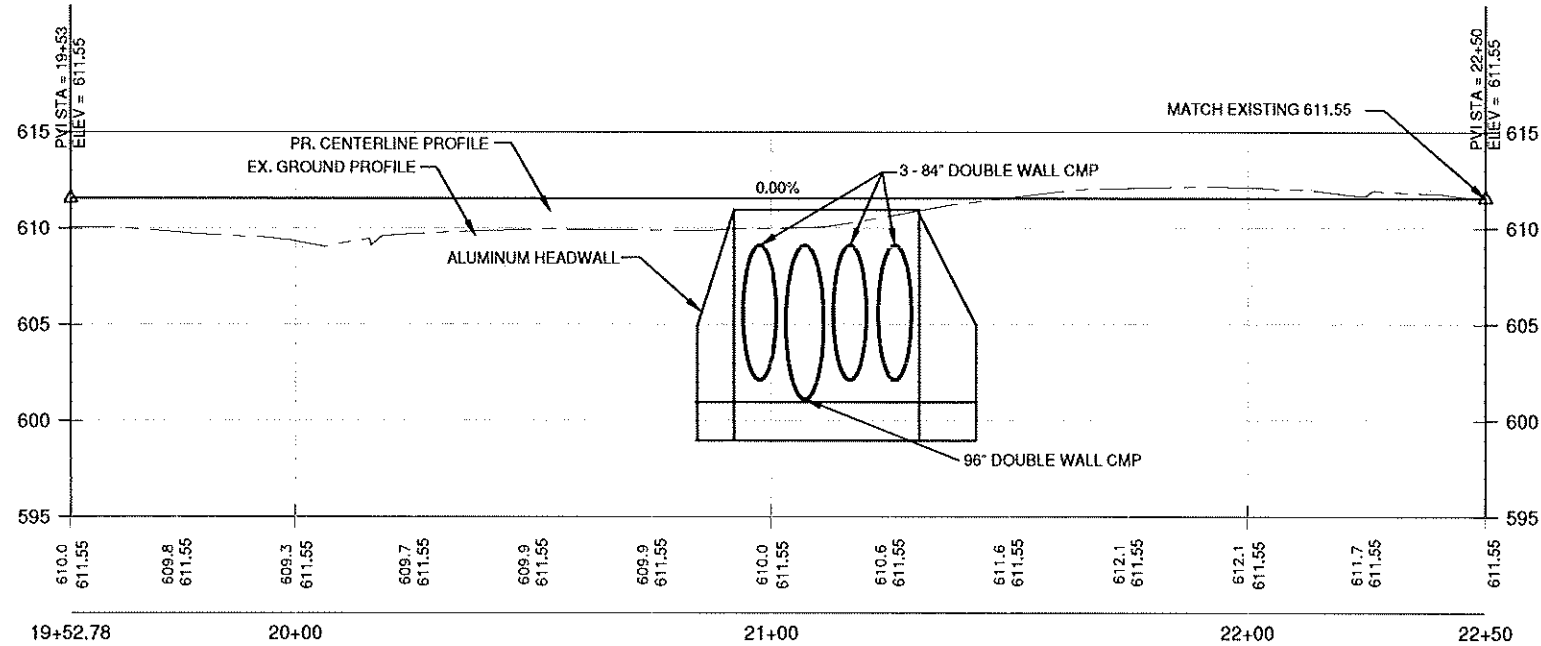


Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4664 GOLDEN POND PARK COURT
HOBART, WI 54155
PHONE: (920) 662-9641
FAX: (920) 662-9141
INTERNET: www.releinc.com

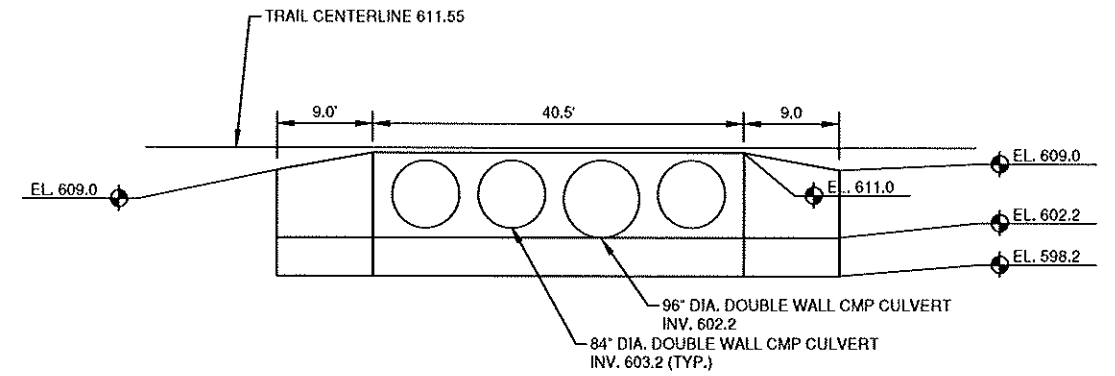
SHEET NO.
3



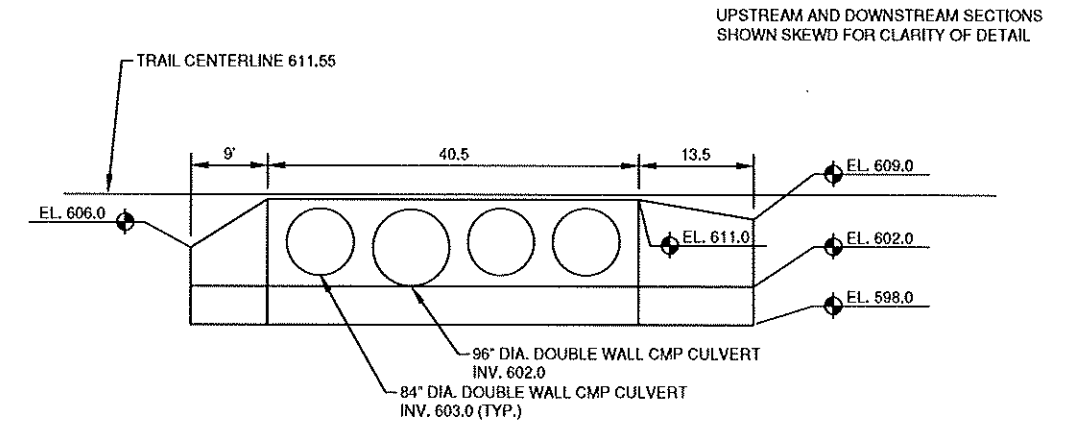
STREAM BED SECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



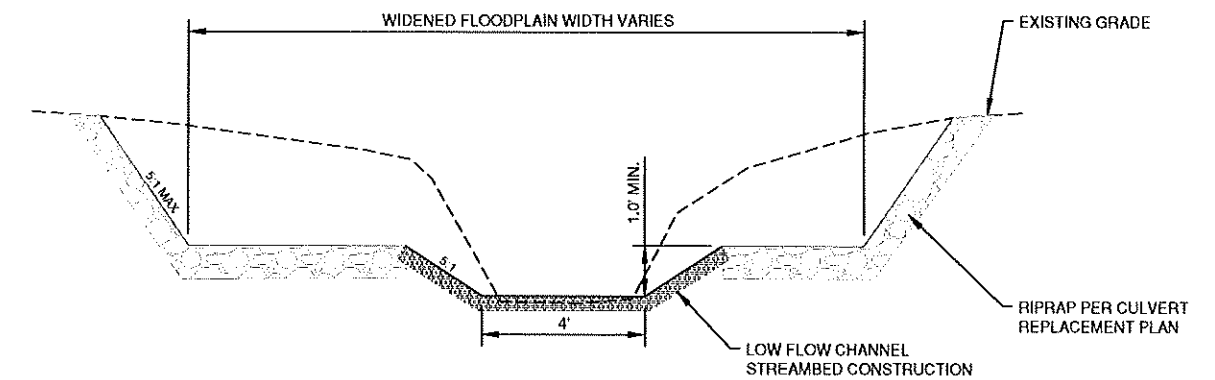
PATH SECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



UPSTREAM (LOOKING DOWNSTREAM) SECTION
SCALE: 1"=10'



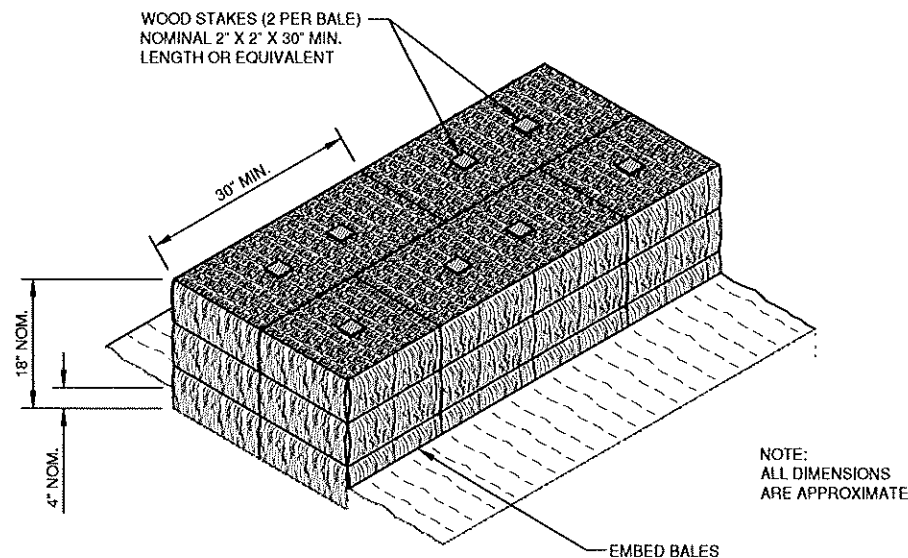
DOWNSTREAM (LOOKING UPSTREAM) SECTION
SCALE: 1"=10'



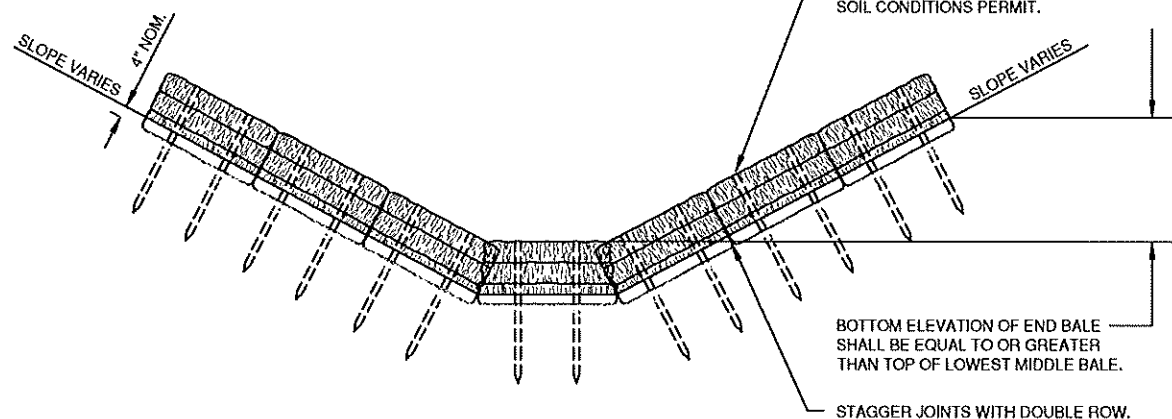
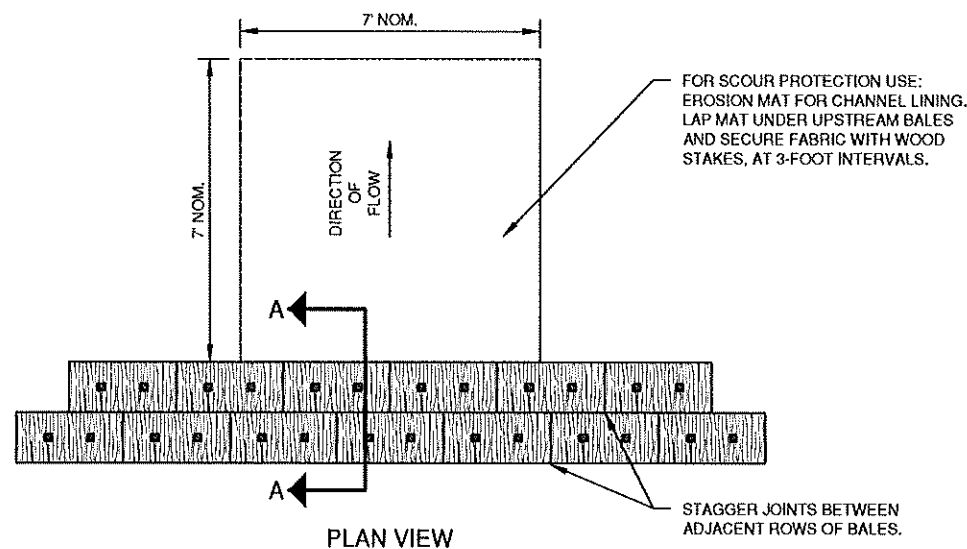
**TYPICAL CHANNEL SECTION
(LOOKING DOWNSTREAM)**

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN	PROJECT 13-06	DATE	FILE	Robert E. Lee & Associates, Inc.	SHEET NO.
								LLP	HEMLOCK CREEK STREAM CROSSING - REBID	10/21/2013	0404353D.FINAL	ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES	4
								JGS	CITY OF DE PERE	0404353D.FINAL		4664 GOLDEN POND PARK COURT	
								DESIGNED	BROWN COUNTY, WISCONSIN	JOB NO.		HOBART, WI 54155	
								PHK		0404353		PHONE: (920) 662-9641	
												INTERNET: www.releelinc.com	
												FAX: (920) 662-9141	

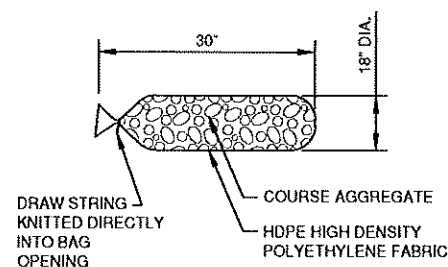
CULVERT REPLACEMENT PLAN



SECTION A-A



TEMPORARY DITCH CHECK USING EROSION BALES
TYPE A



FILTER BAG DETAIL

COURSE AGGREGATE INFORMATION

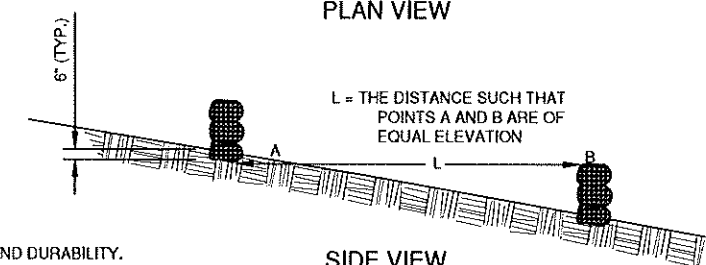
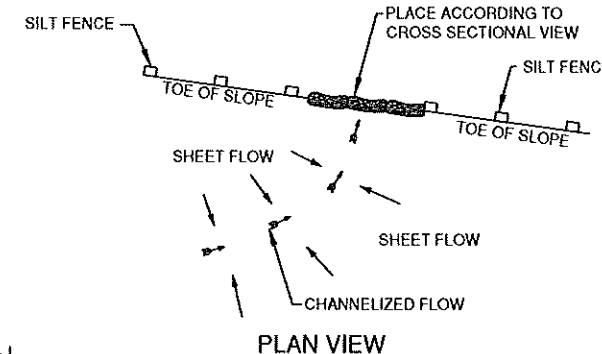
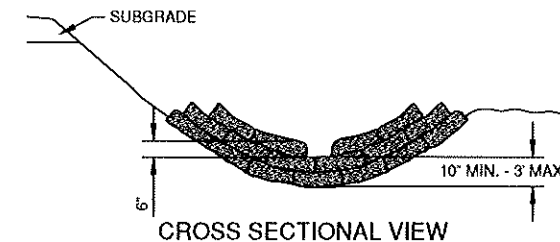
SIEVE SIZE	SIZE NO. AASHTO No. 67 (1)
2 INCH (50 mm)	-
1 1/2 INCH (37.5mm)	-
1 INCH (25.0 mm)	100
3/4 INCH (19.0mm)	90-100
3/8 INCH (9.5mm)	20-55
No. 4 (4.75mm)	0-10
No. 8 (2.36mm)	0-5

(1) SIZE No. ACCORDING TO AASHTO M 43

NOTES:

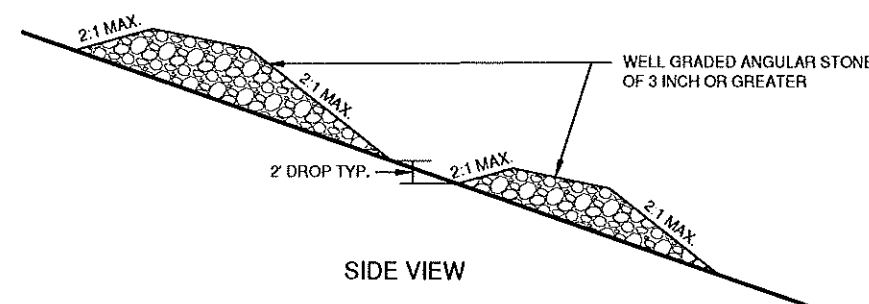
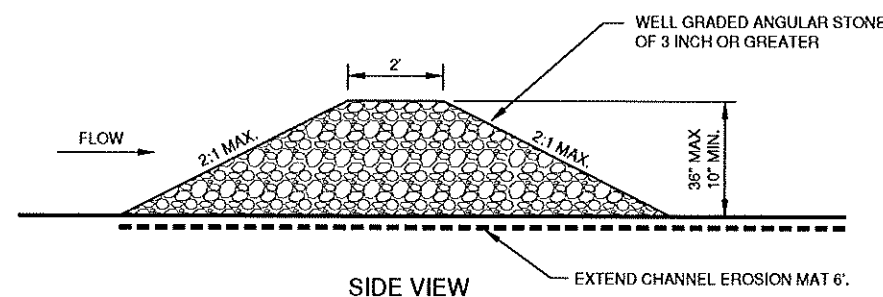
18" X 30" ROCK FILLED FILTER BAG SHALL BE COMPRISED OF THE FOLLOWING:
 HDPE HIGH DENSITY POLYETHYLENE
 HDPE HIGH DENSITY POLYETHYLENE DRAW STRING KNITTED DIRECTLY INTO BAG OPENING.
 80% FABRIC CLOSURE WITH APPARENT OPENING SIZE NO LARGER THAN 1/8" X 1/8"
 ROLLED SEAM USING A MINIMUM OF 480 DENIER POLYESTER SEWING YARN FOR STRENGTH AND DURABILITY.

USE WELL GRADED COURSE AGGREGATE CONFORMING TO THE FOLLOWING GRADATION REQUIREMENTS

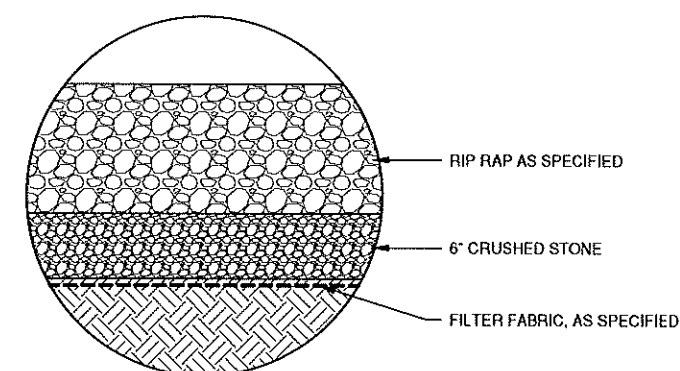


DITCH CHECK DETAIL

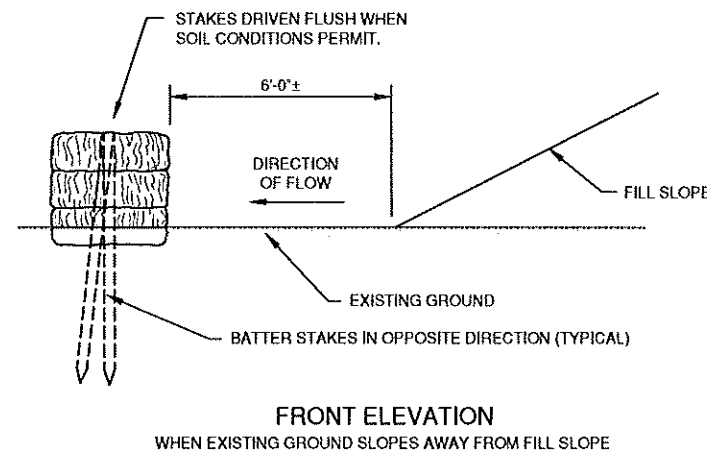
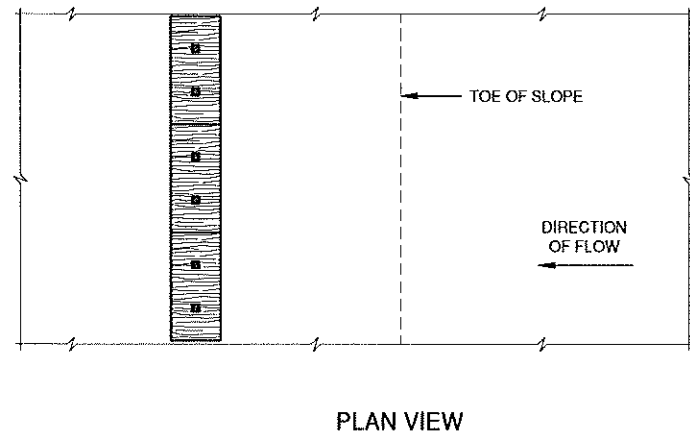
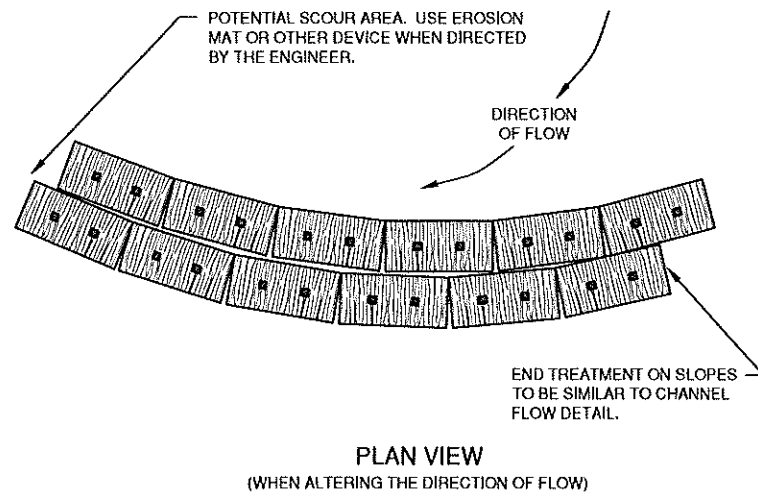
ROCK FILLED EROSION CONTROL BAGS
TYPE B



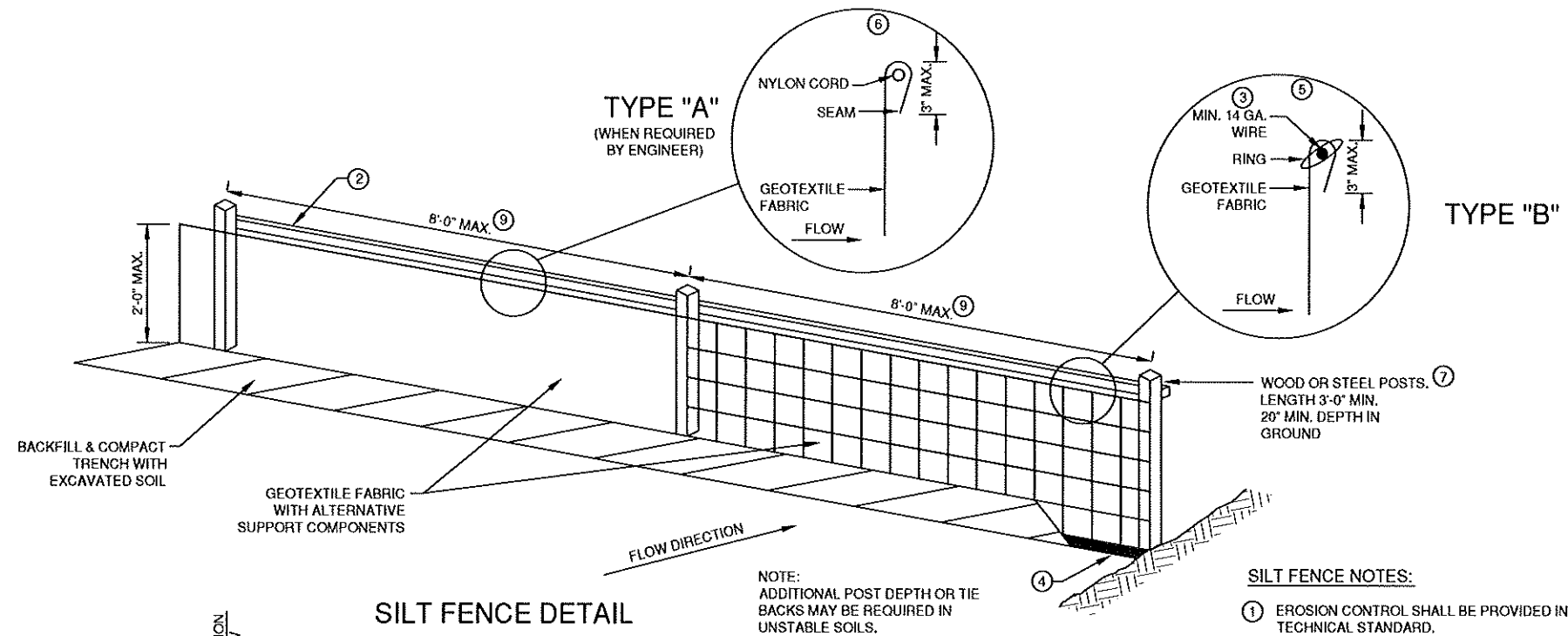
TEMPORARY DITCH CHECK USING STONE
TYPE C



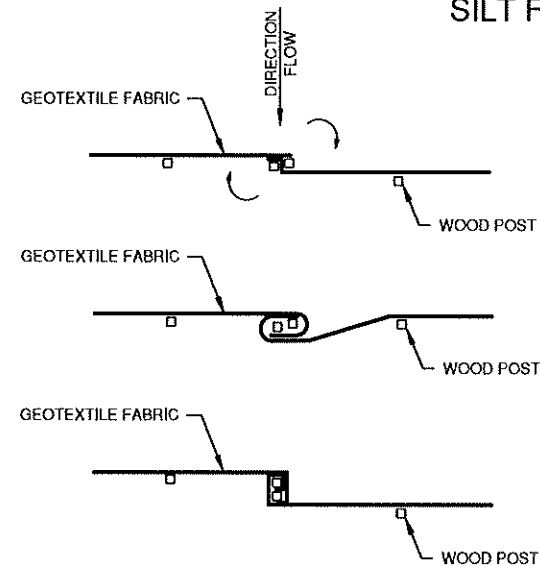
RIP RAP DETAIL



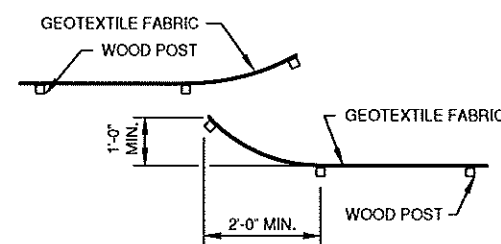
EROSION BALES FOR SHEET FLOW



SILT FENCE DETAIL



TWIST METHOD ⑧



HOOK METHOD ⑧

JOINING TWO LENGTHS OF SILT FENCE

EROSION CONTROL SHEET FLOW NOTES:

1. ANY SOIL STOCKPILED THAT REMAINS FOR MORE THAN 7 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING.
2. A MINIMUM OF 4 INCHES OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEED OR SODDED.
3. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
4. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.
5. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
6. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING.
7. ALL TEMPORARY EROSION CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH 70% VEGETATION AND A NOTICE OF TERMINATION HAS BEEN APPROVED BY THE DNR.
8. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES/WATER RESOURCES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL THE EROSION CONTROL MEASURES IN CONFORMANCE WITH THE WDNR CONSERVATION PRACTICE STANDARDS, LATEST EDITION.
10. UPON COMPLETION OF STORM INLET CONSTRUCTION, THE CONTRACTOR SHALL INSTALL STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITE AS SPECIFIED.
11. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM STREETS, PRIVATE DRIVES, OR PARKING AREAS BY MANUAL OR MECHANICAL SWEEPING A MINIMUM OF ONCE PER WEEK AND BEFORE ALL IMMINENT RAINS.
12. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF RAINFALL OF 0.5 INCH OR MORE.

SILT FENCE NOTES:

1. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD.
2. CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
3. MINIMUM 14 GAUGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C.C.
4. EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
5. WIRE SUPPORT FENCE SHALL BE 14 GAUGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C.C. (TYPE B)
6. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED. (TYPE A)
7. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS./LIN. FT. (WITHOUT ANCHOR) FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
8. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL, IF POSSIBLE, BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS: A.) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES. B.) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.
9. THE MAXIMUM SPACING OF POSTS FOR WOVEN FABRIC SILT FENCE SHALL BE 8 FEET AND FOR NON-WOVEN FABRIC, 3 FEET.

FILE: P:\WORK\GAD\UNDERS\EROSION CONTROL.dwg
Plot Date: Dec 7, 2013 1:53pm
SHEET: 11/11
LAYOUT
PLAN VIEW SHEET FLOW

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JLP
								CHECKED JGS
								DESIGNED PKK

PROJECT 13-06
HEMLOCK CREEK STREAM CROSSING - REBID
CITY OF DE PERE
BROWN COUNTY, WISCONSIN

EROSION CONTROL
SHEET FLOW DETAILS

DATE
10/31/2013
FILE
EROSION CONTROL
JOB NO.
0034581



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HOBART, WI 54155
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SHEET NO.
6

