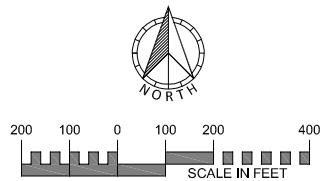
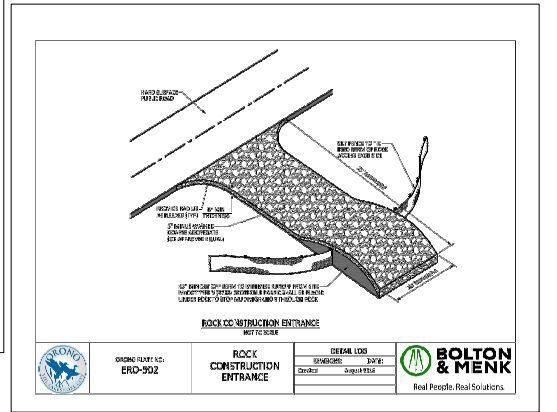
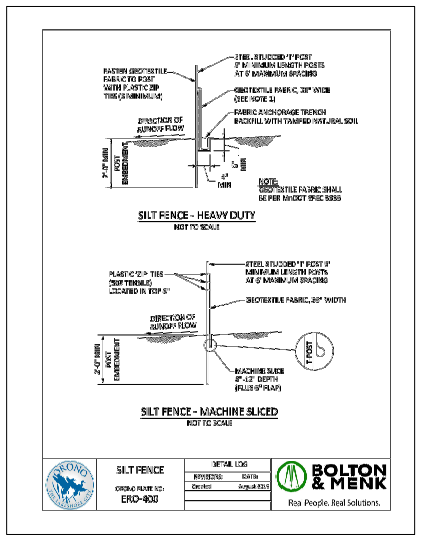
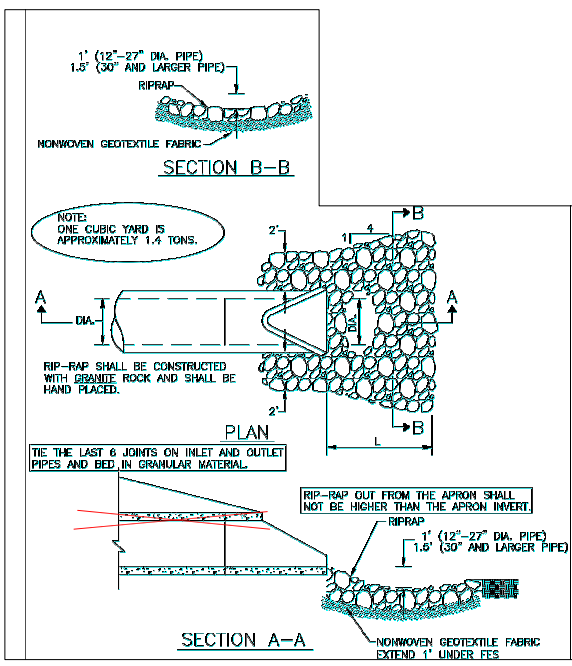


DESCRIPTION	PROPOSED	EXISTING
MINOR CONTOUR		
MAJOR CONTOUR		
LOT LINE		
BUILDING SETBACK LINE		
GARAGE SETBACK LINE		
PARCEL BOUNDARY LINE		
DRAINAGE AND UTILITY EASEMENTS		
CURB AND GUTTER		
RIGHT-OF-WAY		
BACKYARD CATCH BASIN		
CATCH BASIN		
STORM SEWER MANHOLE		
FLARED END SECTION WR/PRAP		
SANITARY SEWER MANHOLE		
HYDRANT		
GATE VALVE		
DRAIN FLOW/RUNOFF ARROW		
EMERGENCY OVERFLOW SWALE		
SILT FENCE - PRE CONSTRUCTION		
SILT FENCE - POST CONSTRUCTION		
SPOT ELEVATION		
TBC SPOT ELEVATION		

- CONSTRUCTION NOTES**
- INSTALL SILT FENCE AS SHOWN ON PLAN, AS REQUIRED BY THE CITY OF ORONO OR DIRECTED BY THE ENGINEER.
 - BEGIN GRADING. TEMPORARY DRAINAGE PIPE SHALL BE USED FOR INTERMEDIATE DRAINAGE DURING THE CONSTRUCTION PERIOD AS NECESSARY AND DIRECTED BY THE ENGINEER.
 - INSPECT SILT FENCE, AND ROCK ENTRANCE BERM AFTER ALL RAINFALL EVENTS AS REQUIRED BY THE NPDES PERMIT.
- 7. RESTORATION - 0.6 ACRES**
- RESTORE DISTURBED AREAS WITH 6" OF TOPSOIL, OR EXISTING ON-SITE ORGANIC MTRL.
 - SEED MIXES:
WETLAND BUFFER AREAS WITH MN/DOT 35-241.
ALL OTHER DISTURBED AREAS WITH MN/DOT 25-141.
 - ONLY PHOSPHOROUS FREE FERTILIZER IS TO BE USED ON SITE.
 - MULCH WITH TYPE 1 AT A RATE OF 2 TONS/ACRE AND DISC ANCHOR IMMEDIATELY AFTER PLACEMENT. USE WOODFIBER BLANKET ON ALL SLOPES 3:1 (FT) OR GREATER.
 - PLACE APPROVED STORM SEWER INLET PROTECTION IN OR AROUND ALL STORM SEWER INLETS AND MAINTAIN UNTIL STREET CONSTRUCTION IS COMPLETED. REFER TO CITY DETAILS 5302 & 5302A FOR APPROVED DEVICES.
 - MAINTAIN ALL SILT FENCE UNTIL TURF HAS BEEN ESTABLISHED.
 - RESTORATION WORK WILL BE COMPLETED WITHIN 72 HOURS OF GRADING COMPLETION.
- 8 SILT FENCE:** BEFORE GRADING - 1,285 LF
SILT FENCE: AFTER GRADING - XXXX LF

"NOTE - SIGNIFICANT TREES GREATER THAN 36" IN DIAMETER SHALL REMAIN IN PLACE. CLEARING OF TREES/AREA WILL BE COMPLETED AS NECESSARY FOR THE GRADING/INSTALLATION OF THE STORM SEWER & DRIVEWAY

- ROCK ENTRANCE BERM
- SILT FENCE
- POST GRADING SILT FENCE
- BIO-ROLL
- ROCK DITCH CHECK
- CONCRETE WASHOUT
- INLET PROTECTION
- EROSION BLANKET



EXISTING UTILITIES SHOWN ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY AND ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES ARISING OUT OF HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.

DRAWING NAME	NO.	BY	DATE	REVISION
DWAY - ORTLIP	1	ERJ	8/16/2023	UPDATE MODELING - WATERSHED
DRAWN	2	ERJ	9/13/2023	UPDATE MODELING-FLOODPLAIN - STORM
XXX	3	ERJ	10/10/2023	UPDATE PLANS - WATERSHED COMMENTS
CHECKED	4	ERJ	10/17/2023	UPDATE PLANS - WATERSHED FLOODPLAIN
XXX	5	ERJ	8/2/2024	UPDATE PLANS - 2x 48" HDPE CULVERTS
DATE				
07/07/2023				

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

Eric R. Johnson

ERIC R. JOHNSON, P.E.
Date: 07-07-2023 Lic. No. 56659

ENGINEERS SURVEYORS DESIGNERS PLANNERS

SATHRE-BERGQUIST, INC.
14000 25TH AVE N #120 PLYMOUTH, MN. 55447 (952) 476-6000

CITY PROJECT NO. ---

ORONO, MINNESOTA

DRIVEWAY PLAN
WEST BRANCH ROAD
ORTLIP

FILE NO. 68086-001

X