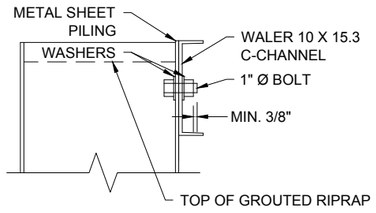
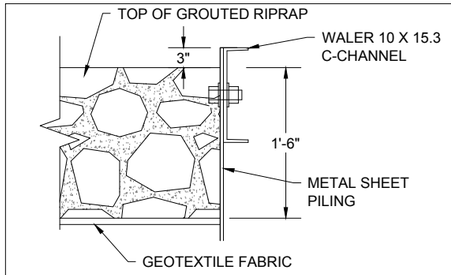
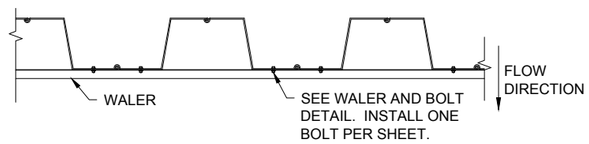


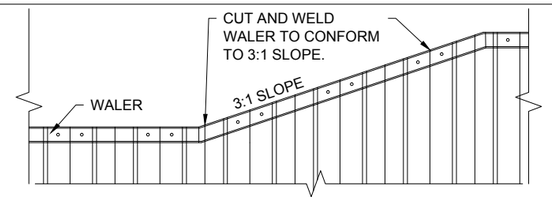
TYPICAL WALER AND BOLT DETAIL
NOT TO SCALE



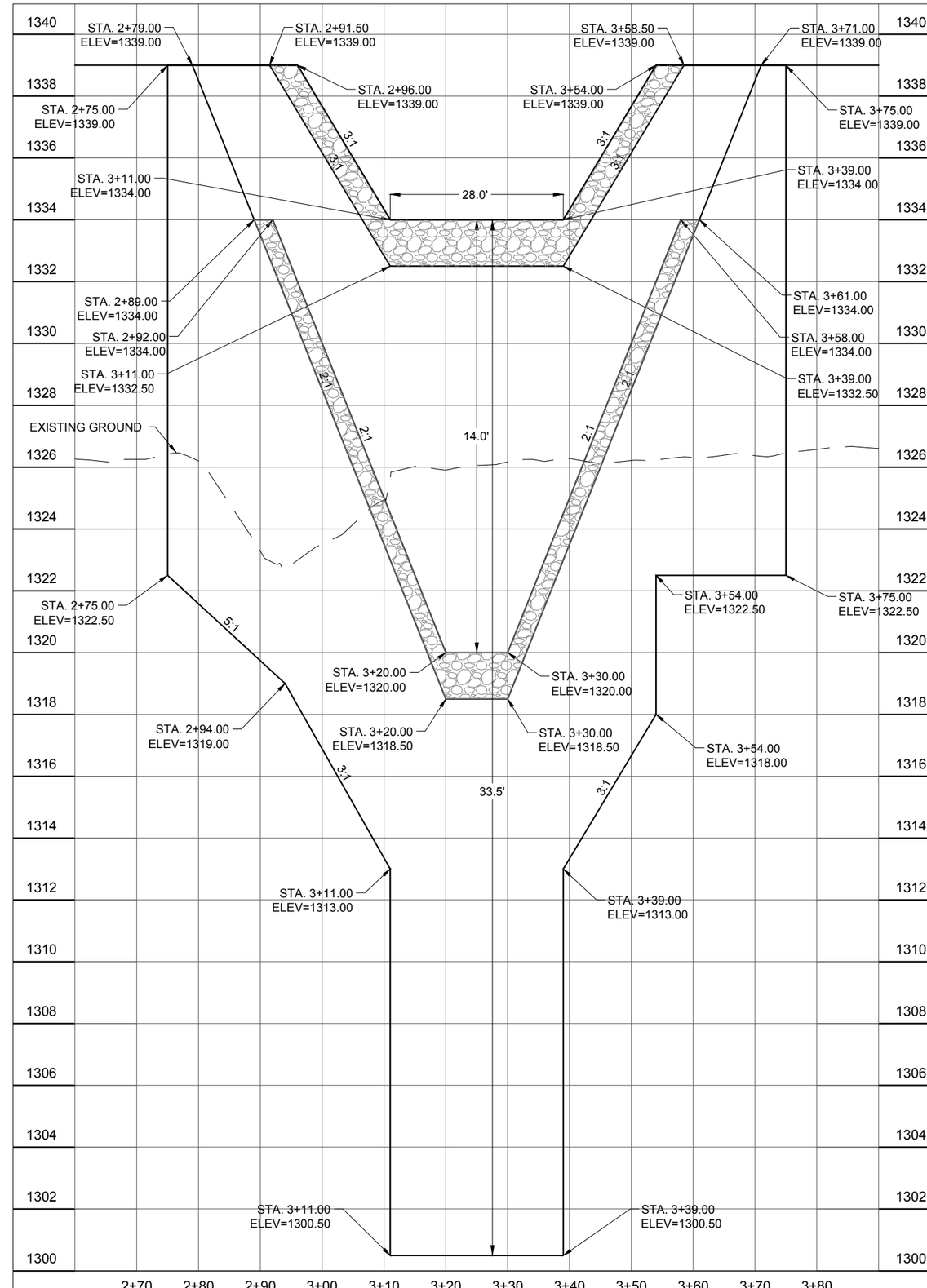
TYPICAL GROUTED RIPRAP DETAIL
NOT TO SCALE



TYPICAL PLAN VIEW WALER BOLT PLACEMENT
NOT TO SCALE



TYPICAL FRONT VIEW WALER BOLT PLACEMENT
NOT TO SCALE



SHEET PILING REQUIREMENTS

MINIMUM SECTION MODULUS OF 37.91 CUBIC INCHES PER FOOT OF WALL
MINIMUM GRADE OF STEEL 36 KSI.
DESIGN SHEET PILING AREA = 2300 SF
MINIMUM MOMENT OF INERTIA OF 415 INCHES ^ 4 PER FOOT OF WALL.
ALL SHEETING SHALL MEET ASTM A-328, A-572 GR50 OR A-690.

SHEETING WHICH MEETS THE REQUIREMENTS:

SKYLINE STEEL AZ 24-700, AZ 26-700, SKZ 31, PZ 40 OR EQUIVALENT
SHORELINE STEEL MSZ 19-375 OR EQUIVALENT
CONTECH JZ 120, JZ 127 OR EQUIVALENT
LB FOSTER/ GERDAU AMERISTEEL PZC 26 OR EQUIVALENT

SHEET PILING NOTES:

1. SHEETING CHOICES NOT LISTED ABOVE MAY BE ALLOWED WITH PRIOR APPROVAL OF ENGINEER, THIS ALLOWED SHEETING MUST MEET ENGINEERS DEFLECTION REQUIREMENTS.
2. CONTRACTOR IS RESPONSIBLE TO CONFIRM AND PROVIDE INSTALLATION EQUIPMENT THAT IS COMPATIBLE WITH THE SHEETING TO BE USED. SOME INSTALLATION METHODS MAY WORK BETTER WITH HEAVIER SHEETPILE.

SHEET PILE INSTALLATION NOTES:

1. ALL BOLTS WILL BE 1" DIA. W/2 WASHERS. BOLT SHALL EXTEND AT MINIMUM 3/8"BEYOND NUT
2. ALL HOLES SHALL BE FIELD DRILLED 1/16" DIA. LARGER THAN THE BOLTS.
3. THE WALER SHALL BE PLACED ON THE DOWNSTREAM SIDE OF THE WEIR.
4. AFTER INSTALLATION ANY HOLES LEFT IN SHEET PILE (LIFTING HOOKS ETC.) SHALL BE CLOSED OFF TO NOT ALLOW WATER TO FLOW THROUGH.
5. AFTER SHEETING AND WALER INSTALLATION ALL SHEETING IS TO BE CUT TO CONFORM WITH 3:1 SLOPE.

Iowa: Algona • Storm Lake • Sac City
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NO.	REVISIONS	BY	DATE

Sheet: Pile Structure.dwg

ENGINEER: N.J.R./ D.D.E.
DESIGNER: N.J.R./ J.P.R.
DRAFTSMAN: NKF/ JRF/ NJF
CHECKER: N.J. KOETHLER

SHEET PILE STRUCTURE AND DETAILS
CLAY CREP SITE CLA943506C
CLAY COUNTY, IOWA

PROJECT NO.	DATE
106459	7-18 2012

SHEET
B.02

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PLOT DATE: 7/23/2012