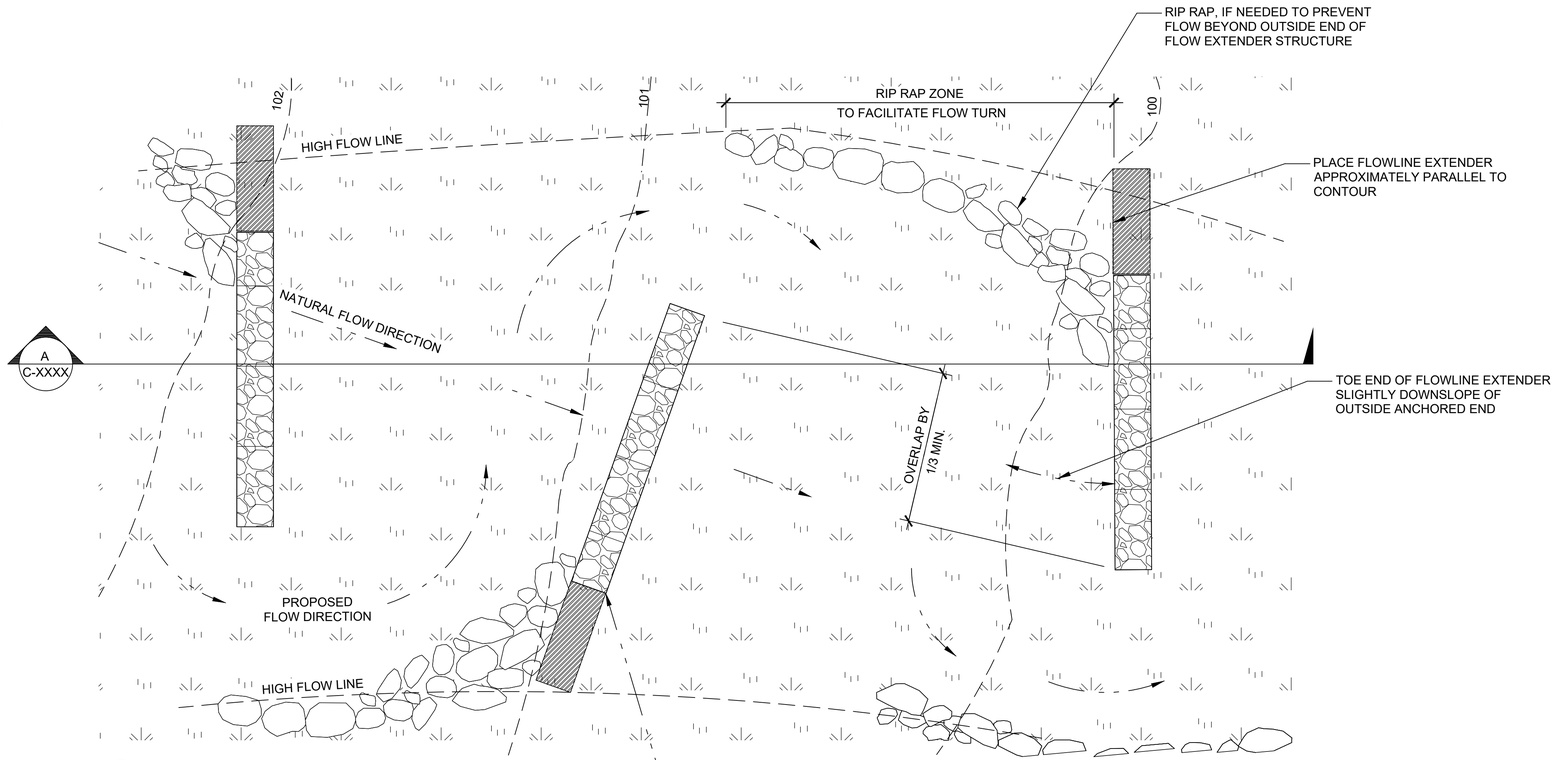


VIEWL C-XXXX

EXTENDER SECTION A

1' 6" 0 1' 2'

3/4"=1'-0"



VIEWL C-XXXX

EXTENDER PLAN

1' 6" 0 1' 2'

3/4"=1'-0"

GENERAL NOTES:

1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.

NOTES FOR DESIGNER:

(DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

DESIGN LIMITATIONS:

1. NOT INTENDED FOR USE WITHIN A CONCENTRATED FLOW PATH (CHANNEL).
2. LONGITUDINAL SLOPE OF FLOW AREA SHOULD BE LESS THAN 8%.

SITING CRITERIA:

1. CONFIRM STRUCTURAL CAPACITY OF EXISTING SOIL TO SUPPORT FLOW LINE EXTENDER.
2. SHALL BE USED IN A SERIES OF FLOW LINE EXTENDERS.

DESIGN CRITERIA:

1. CROSS SWALE SLOPE SHOULD BE LESS THAN 4%
2. UTILIZE RIP RAP AT ENDS OF FLOW LINE EXTENDERS IF NEEDED TO TURN FLOWS.
3. FLOW EXTENDER MATERIAL OPTIONS:
   INTERLOCKING BLOCK WALL SYSTEM
   STONE
   GABIONS
   EARTHEN BERM
4. IF USING EARTHEN BERM, STABILIZE BERMS WITH PERENNIAL VEGETATION AND TURF REINFORCEMENT MAT.
5. VEGETATE AREAS BETWEEN THE FLOW EXTENDERS UTILIZING SEEDING METHODS THAT WILL WITHSTAND MINOR CONCENTRATED FLOW.
6. REQUIRES SOILS SUITABLE FOR VEGETATION GROWTH .
7. IF STONE IS UTILIZED IT SHALL BE SIZED BASED ON CHANNEL VELOCITIES AND VERTICAL/ HORIZONTAL SHEER CONSIDERATIONS.

CONSTRUCTION CRITERIA:

1. SOILS IN AREA SHALL BE SUITABLE FOR VEGETATIVE COVER.
2. IDENTIFY APPROPRIATE MATERIALS AND HOLD POINTS FOR INSPECTION AND APPROVAL DURING CONSTRUCTION.
3. PROVIDE ACCESS FOR MAINTENANCE.

00% REVIEW
NOT FOR CONSTRUCTION

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
				REVISIONS PER [DCF] [DRN] [FCR]					
0				INITIAL ISSUE FOR [DCF-XYZ]					

ENGINEERING STANDARDS

CIVIL
LOW IMPACT DEVELOPMENT
FLOWLINE EXTENDER

TA-XX BLDG XXXX

DRAWN	E. ATENCIO
DESIGN	T. LEMKE
CHECKED	S. RAEL
DATE	02-10-20

SUBMITTED
DISCIPLINE POC: JOHN O'BRIEN

APPROVED FOR RELEASE
STANDARDS MANAGER: TOBIN ORUCH

Los Alamos NATIONAL LABORATORY
PO Box 1663
Los Alamos, New Mexico 87545

SHEET 1
10 OF 16

D.C.: UNCLASSIFIED
REVIEWER: DONALD YARDMAN
DATE:

PROJECT ID
CHAPTER 3

DRAWING NO
ST-G20GEN-1.10

REV
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