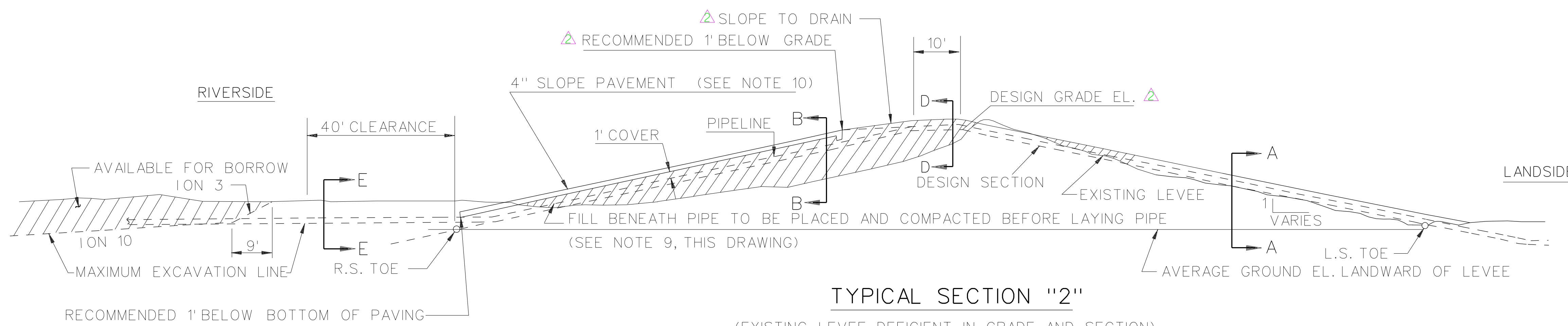


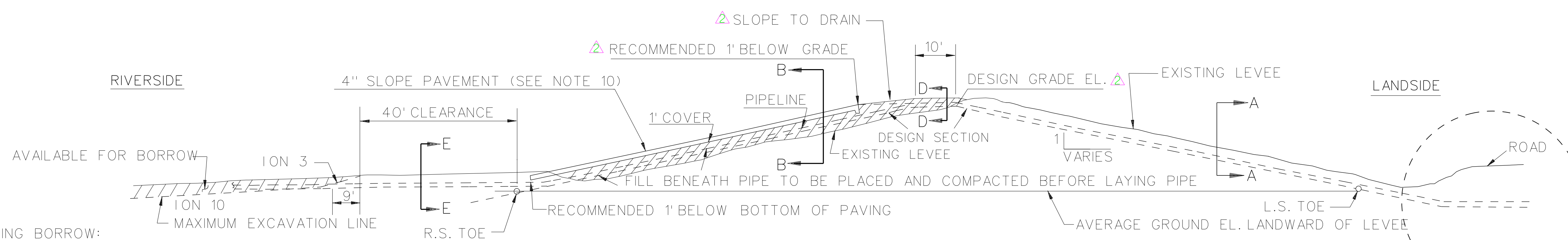
TYPICAL SECTION "1"

(M.R.C. CODE SECTION CONTAINED WITHIN EXISTING LEVEE)
NOT TO SCALE



TYPICAL SECTION "2"

(EXISTING LEVEE DEFICIENT IN GRADE AND SECTION)
NOT TO SCALE



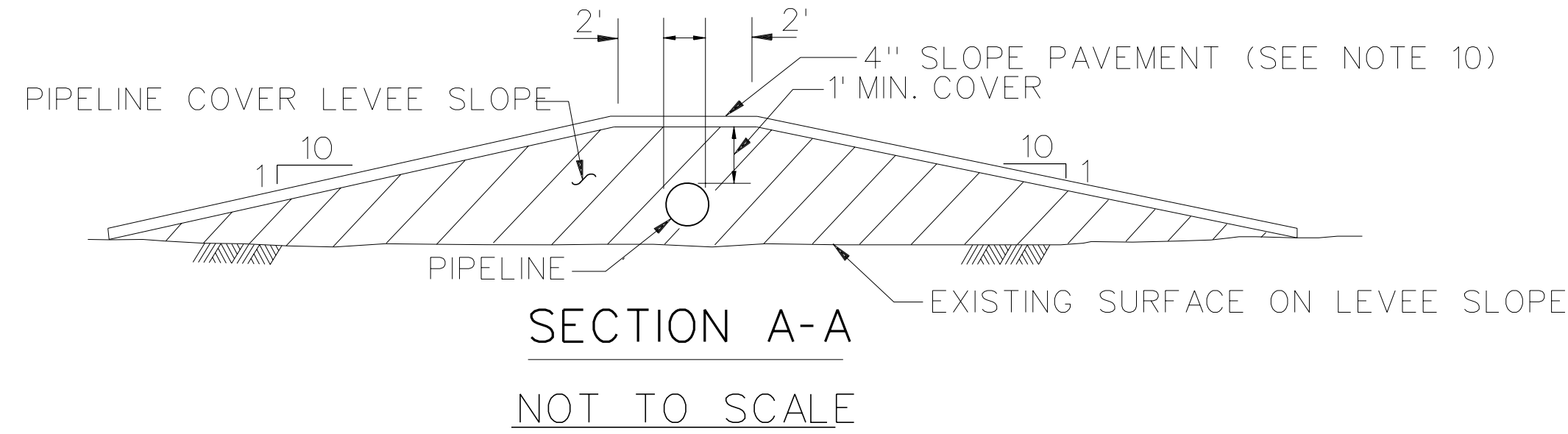
TYPICAL SECTION "3"

(LEVEE TO GRADE AND SECTION BUT SHIFT REQUIRED FOR PIPE CLEARANCE UNDER ROAD)
NOT TO SCALE

NOTES REGARDING BORROW:

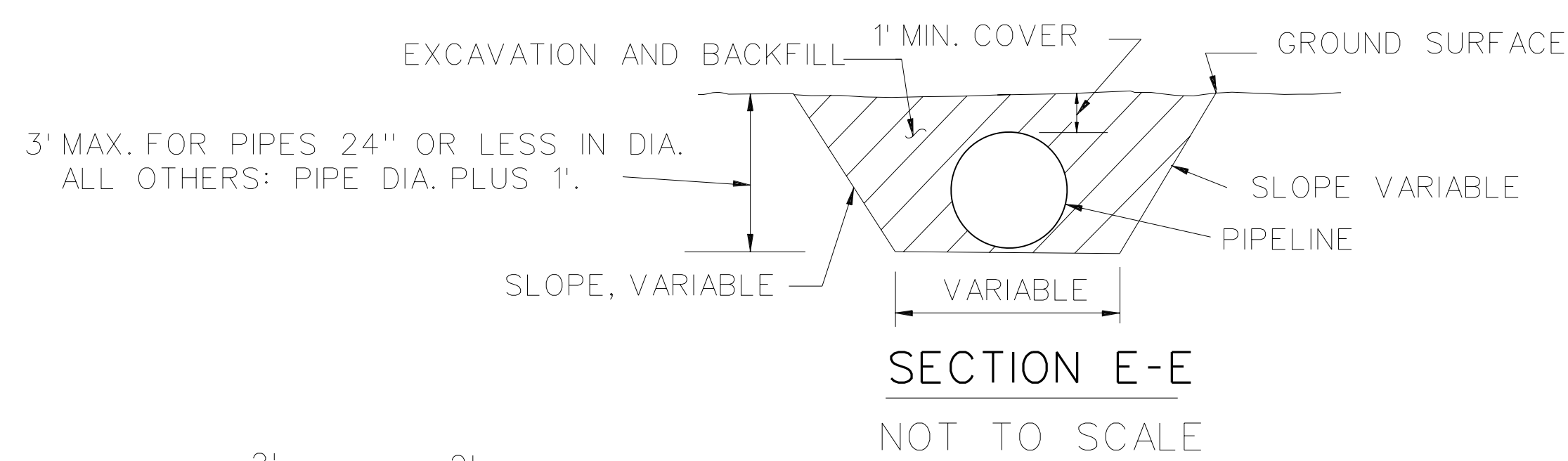
BORROW SHALL BE LIMITED TO THAT REQUIRED FOR LEVEE ENLARGEMENT. NO BORROW EXCAVATION ALLOWED WITHIN 50' OF THE FLOODSIDE LEVEE TOE WITHOUT A STABILITY ANALYSIS SUBMITTED. WITHOUT A STABILITY ANALYSIS, BORROW EXCAVATION MUST NOT BE CLOSER THAN 200' FROM THE FLOODSIDE LEVEE TOE.

BORROW PIT DRAINAGE DITCHES SHALL BE EXCAVATED TO THE RIVER TO INSURE COMPLETE DRAINAGE OF PITS.



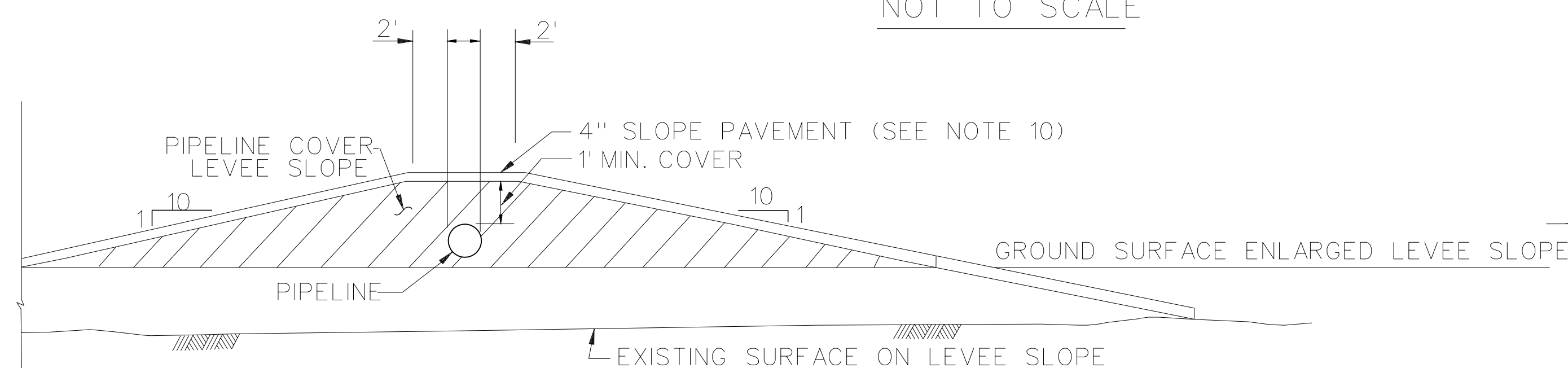
SECTION A-A

NOT TO SCALE



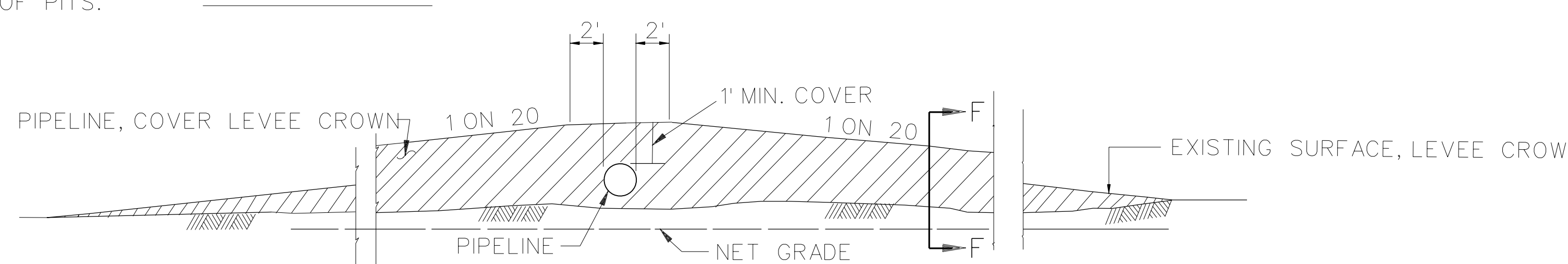
SECTION E-E

NOT TO SCALE



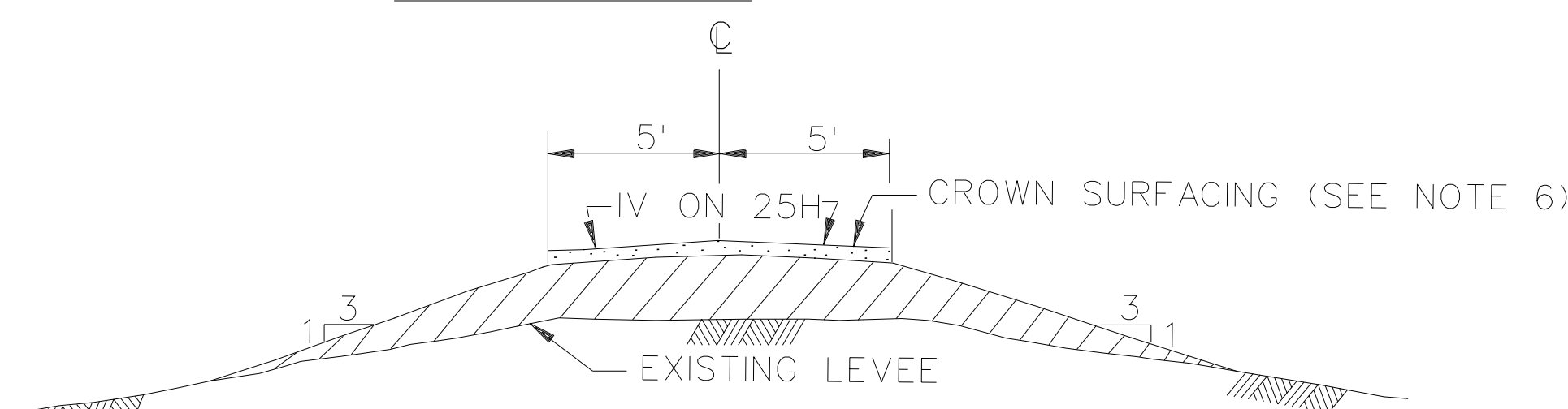
SECTION B-B

NOT TO SCALE



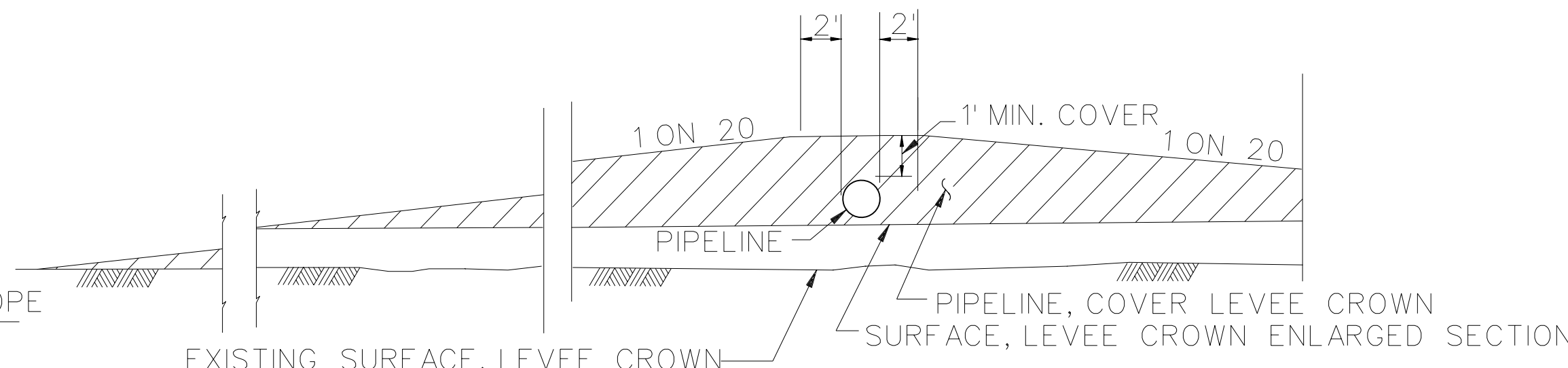
SECTION C-C

NOT TO SCALE



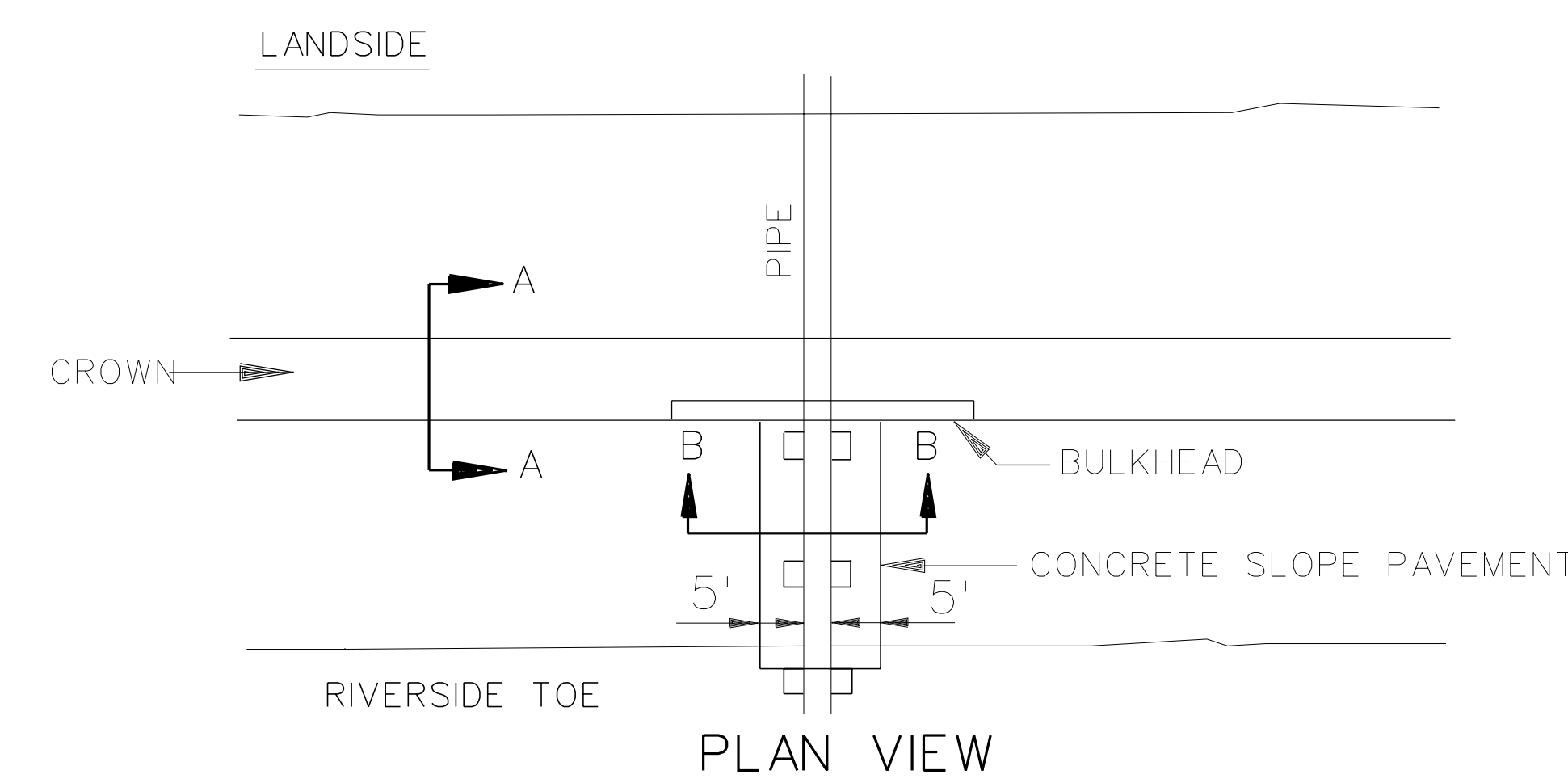
SECTION F-F

NOT TO SCALE

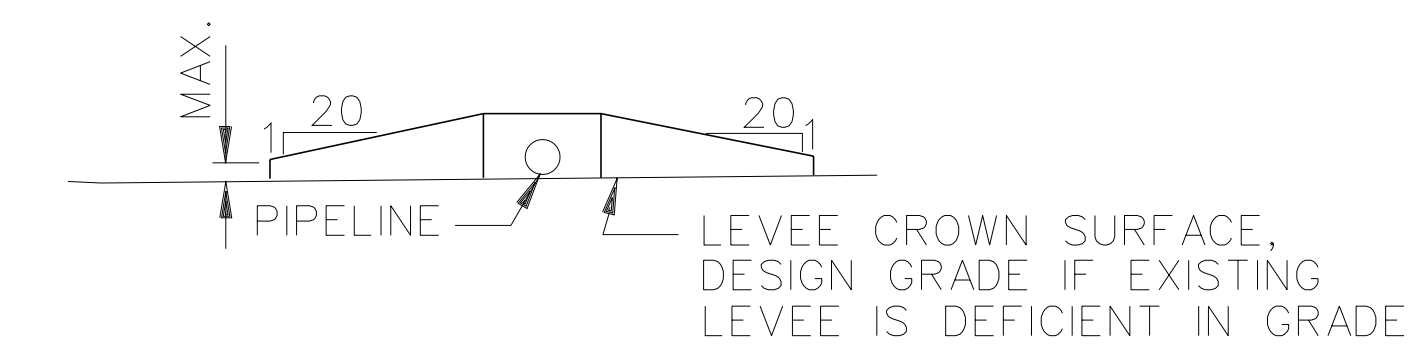


SECTION D-D

NOT TO SCALE



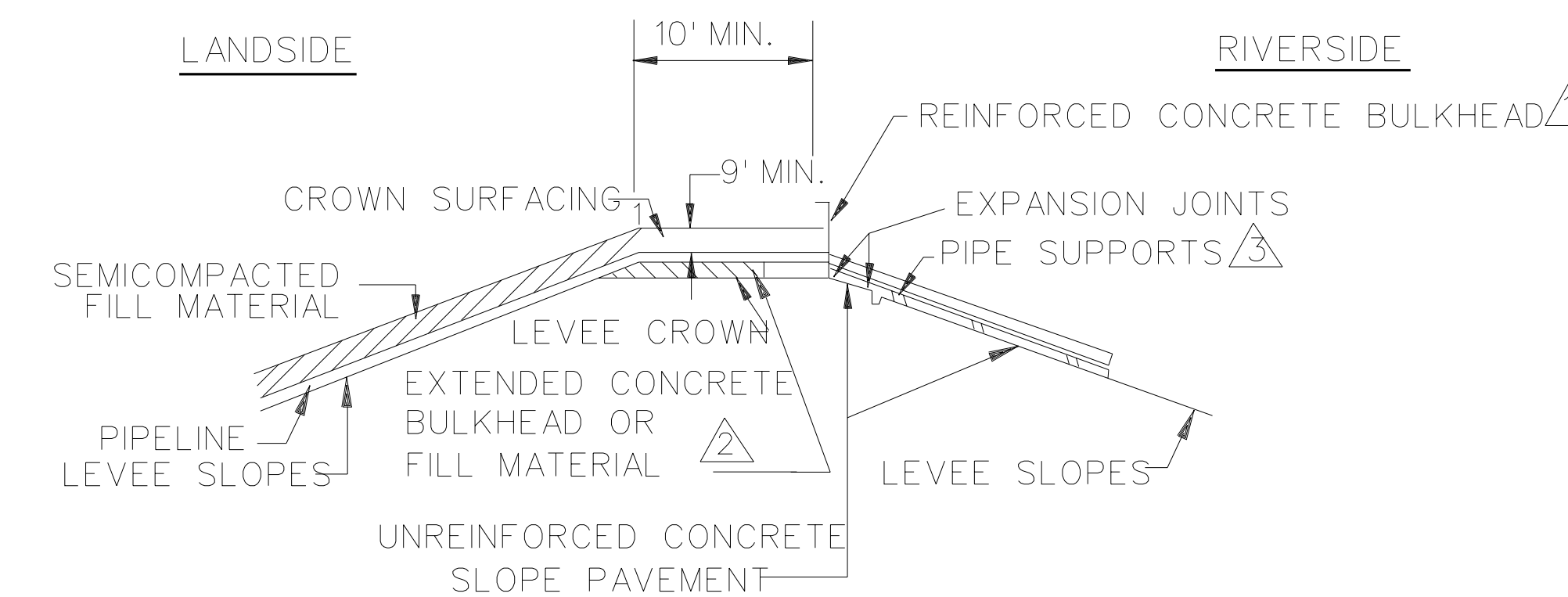
PLAN VIEW



CONCRETE BULKHEAD

SECTION B-B

NOT TO SCALE



SECTION A-A

NOT TO SCALE

NOTES:

- DESIGN DETAILS ARE THE RESPONSIBILITY OF THE APPLICANT.
- BOTTOM OF CONCRETE BULKHEAD MAY EXTEND COMPLETELY ACROSS CROWN.
- PIPE SUPPORTS MUST BE INDEPENDENT OF CONCRETE SLOPE PAVEMENT. EXISTING PAVEMENT CAN BE CUT TO ACCOMMODATE SUPPORTS.
- CONCRETE SLOPE PAVEMENT MUST EXTEND 5' BEYOND OUTERMOST EDGES OF THE STRUCTURE OR SUPPORTS AND 3' INTO BATTURE.

NOTES:

- TYPICAL SECTION "1", WHEN EXISTING LEVEE IS $\frac{3}{2}$ M.R.C. DESIGN SECTION, THE PIPELINE SHALL BE LAID ON EXISTING LEVEE SURFACE AND COVERED OVER AS SHOWN IN SECTIONS A-A AND C-C. NO EXCAVATION TO DESIGN SECTION WILL BE ALLOWED. ALLOWABLE EXCAVATION ON RIVERSIDE AS SHOWN IN SECTION E-E.
- TYPICAL SECTION "2", PIPELINE MAY BE PLACED ON ENLARGED DESIGN SECTION, SHOWN AS DASHED LINE. EXCESS EXISTING LEVEE EMBANKMENT MATERIAL ON THE LANDSIDE SLOPE CAN BE DEGRADED AND USED AS LEVEE FILL ON THE RIVERSIDE SLOPE. EXCAVATION LANDWARD OF LANDSIDE TOE SHALL NOT EXTEND BELOW LANDSIDE SLOPE EXTENDED. ALLOWABLE EXCAVATION ON RIVERSIDE AS SHOWN IN SECTION E-E.
- TYPICAL SECTION "3", SAME AS NOTE "2". IF PASSING THE PIPELINE UNDER AN ADJACENT ROAD WILL REQUIRE A SUBSTANTIAL SHIFT IN THE LEVEE, THE PIPELINE MAY BE ALLOWED TO VIOLATE THE DESIGN SLOPE EXTENDED. WAIVERS WILL BE EVALUATED ON A CASE BY CASE BASIS.
- SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND EXISTING LEVEE.
- ALL FRESH FILLS SHALL BE SODDED OR FERTILIZED AND SEEDING AND SHALL BE MAINTAINED UNTIL A HEALTHY GROWTH IS OBTAINED.
- THE CROWN RAMP OVER THE PIPELINE CROSSING SHALL BE SURFACED WITH NINE (9) INCHES OF CRUSHED STONE (LOOSE MEASUREMENT) FOR FULL WIDTH (10' MIN.) AND LENGTH OF RAMP.
- FILL MATERIAL USED IN CONSTRUCTION OF LEVEE ENLARGEMENTS, RAMP, PIPE COVER, AND BACKFILL OF EXCAVATION SHALL BE A COMPACTED IMPERVIOUS EARTH FILL (CLAY). SEE NOTE 9 BELOW.
- PIPELINE MARKERS SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE IN LINE WITH THE CROSSING AND INDICATING OWNER, SIZE, NUMBER OF LINES, PRODUCT AND ADDRESS FOR CONTACTING OWNER.
- SEE DWGS. 2, 3, OR 4 FOR DESCRIPTION OF COMPACTED FILL.
- THE INSTALLATION OF 4" THICK UNREINFORCED CONCRETE SLOPE PAVEMENT ON THE LEVEE FLOODSIDE SLOPE IS REQUIRED IN ALL AREAS OF EXISTING SLOPE PAVEMENT OR IN AREAS SUSCEPTIBLE TO WAVE EROSION. SEE SLOPE PAVEMENT DETAILS SHEET 4 OF 7.
- ALL COVER OVER PIPELINES MUST BE DESIGNED FOR H520-44 LOADING FOR THE LIFE OF THE LINE.

<p>US Army Corps of Engineers New Orleans District</p>	
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY
ENGINEER:	JACW29X
DESIGNED BY:	DESIGN FILE NAME: 2902701.dgn
CHECKED BY:	DATE: 11/20/03
DRAWN BY:	SCALE: 2001
DATE:	NOV. 2003
PROJECT:	NO. 2001
SCALE:	2001
DATE:	NOV. 2003
DESIGNER:	WALTER O. BAIKRY

