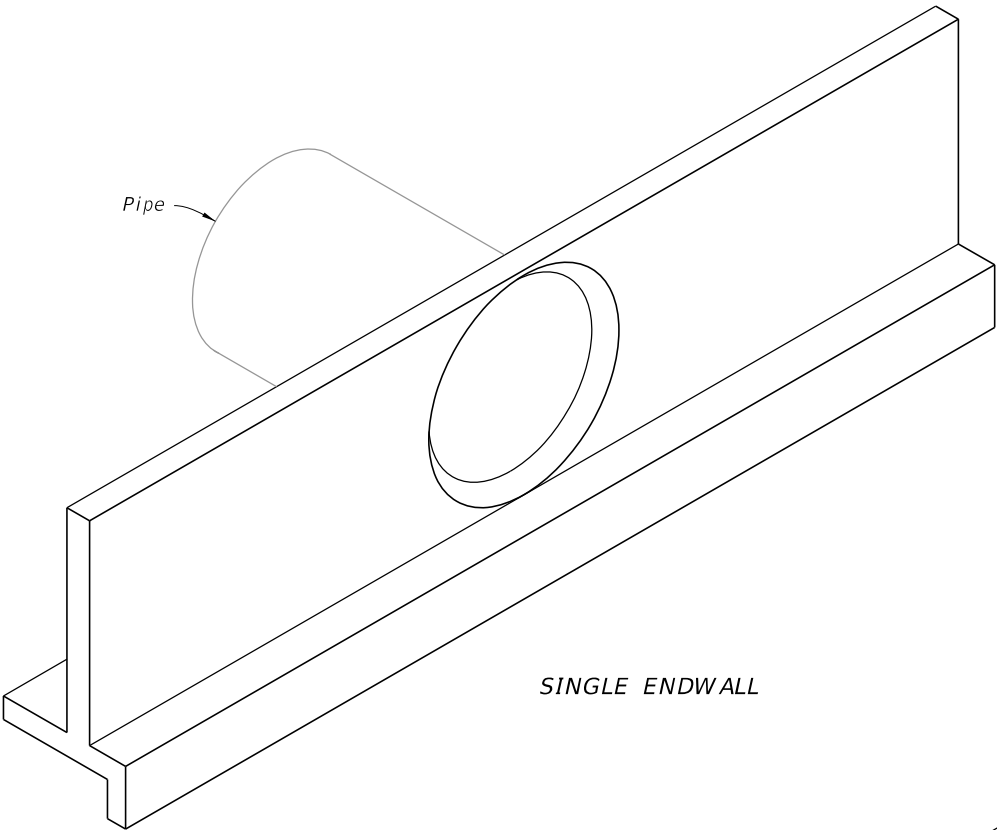
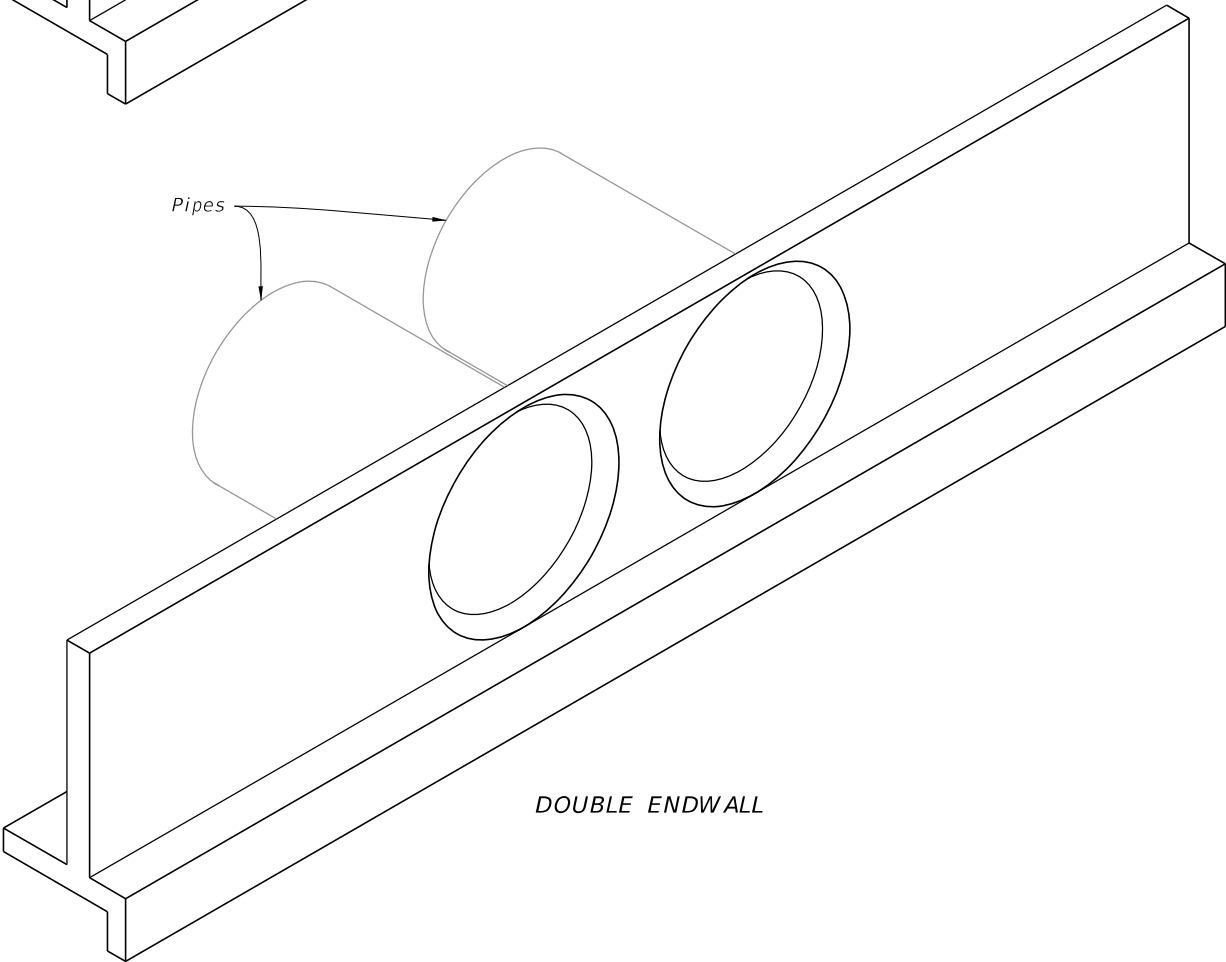


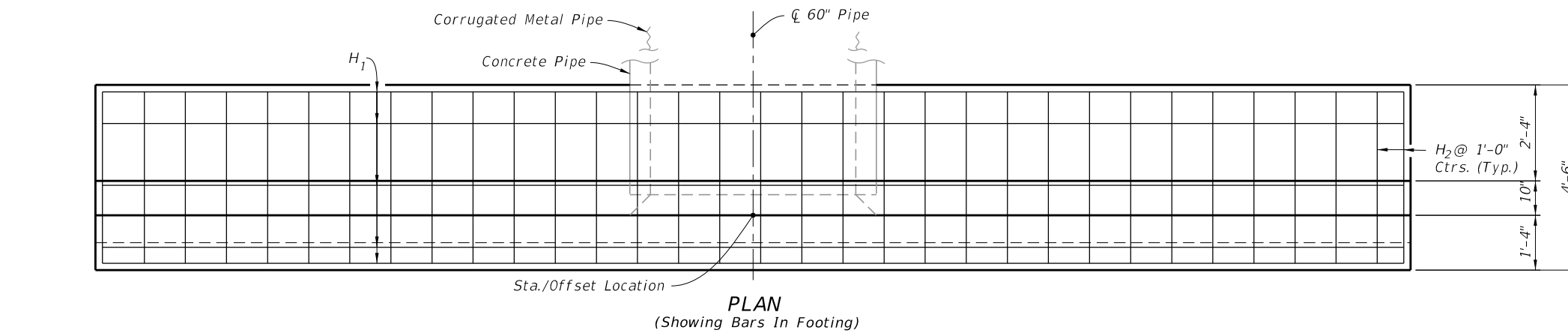
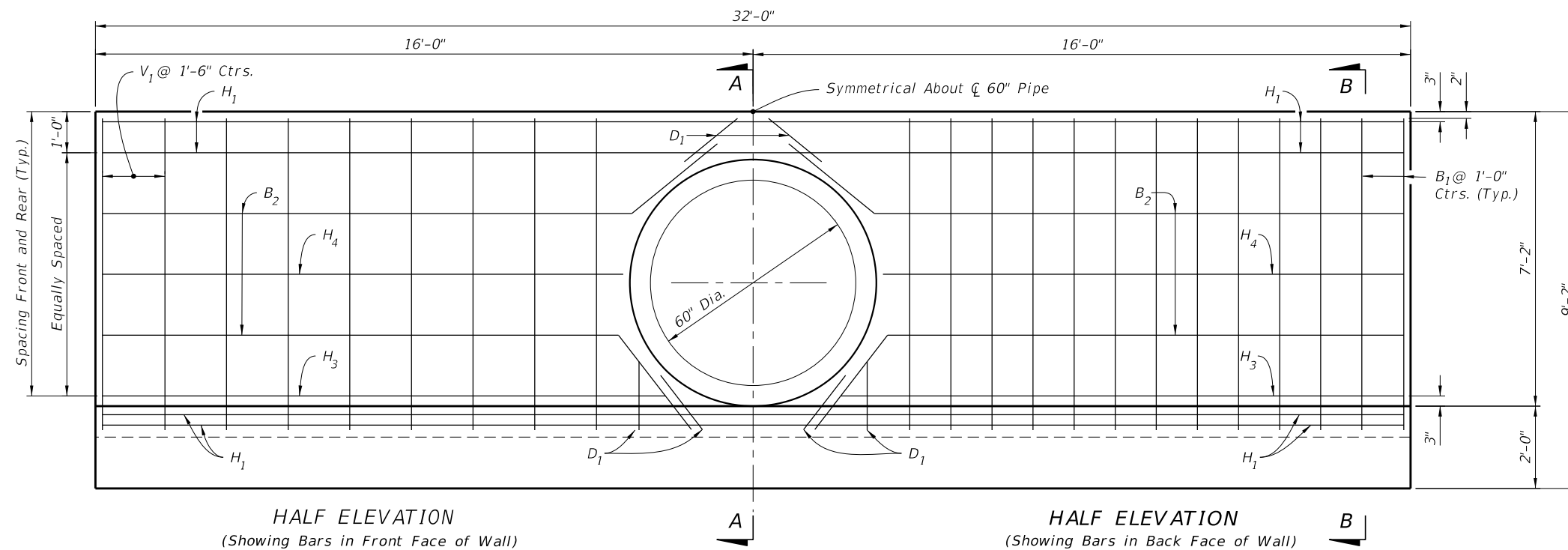
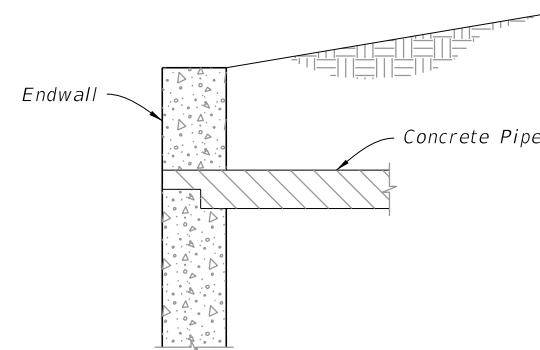
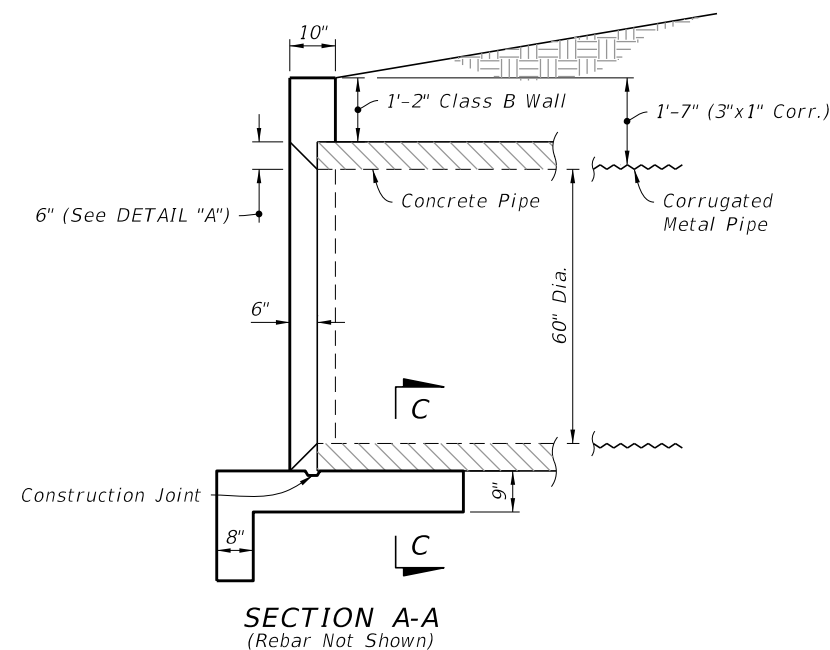
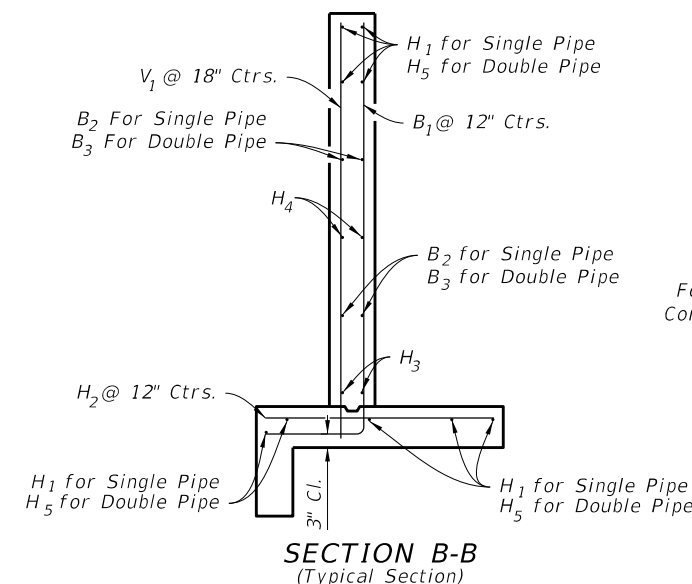
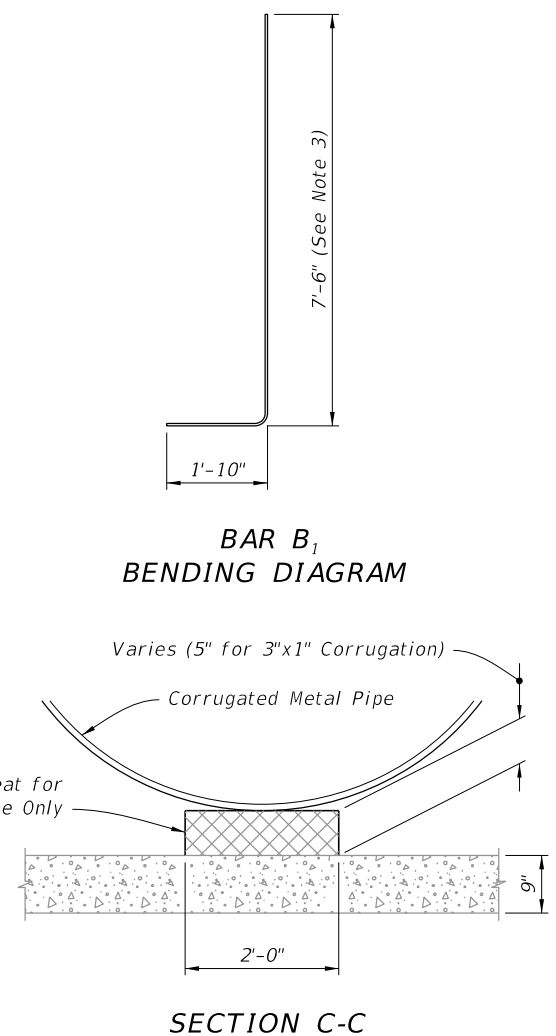
GENERAL NOTES:

- 1. Use Class II concrete.
- 2. Reinforcing steel is either Grade 40 or 60.
- 3. Endwalls may be cast in place or precast concrete. The Contractor or the Supplier will determine the additional reinforcement necessary for handling precast units.
- 4. Chamfer all exposed edges and corners 3/4" unless otherwise shown.
- 5. Quantities shown are for estimating purposes only.

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Single 60" Pipe Endwall Details
3	Double 60" Pipe Endwall Details



STRAIGHT CONCRETE ENDWALLS 60" PIPE



NOTES:

1. 2" clearance on all reinforcement, unless otherwise shown.
2. Cut and bend B_2 and B_3 Bars as shown.
3. All bar dimensions are out to out.

LEGEND:

H = Horizontal Bars B = Bent Bars
V = Vertical Bars D = Dowels or Diagonal Bars

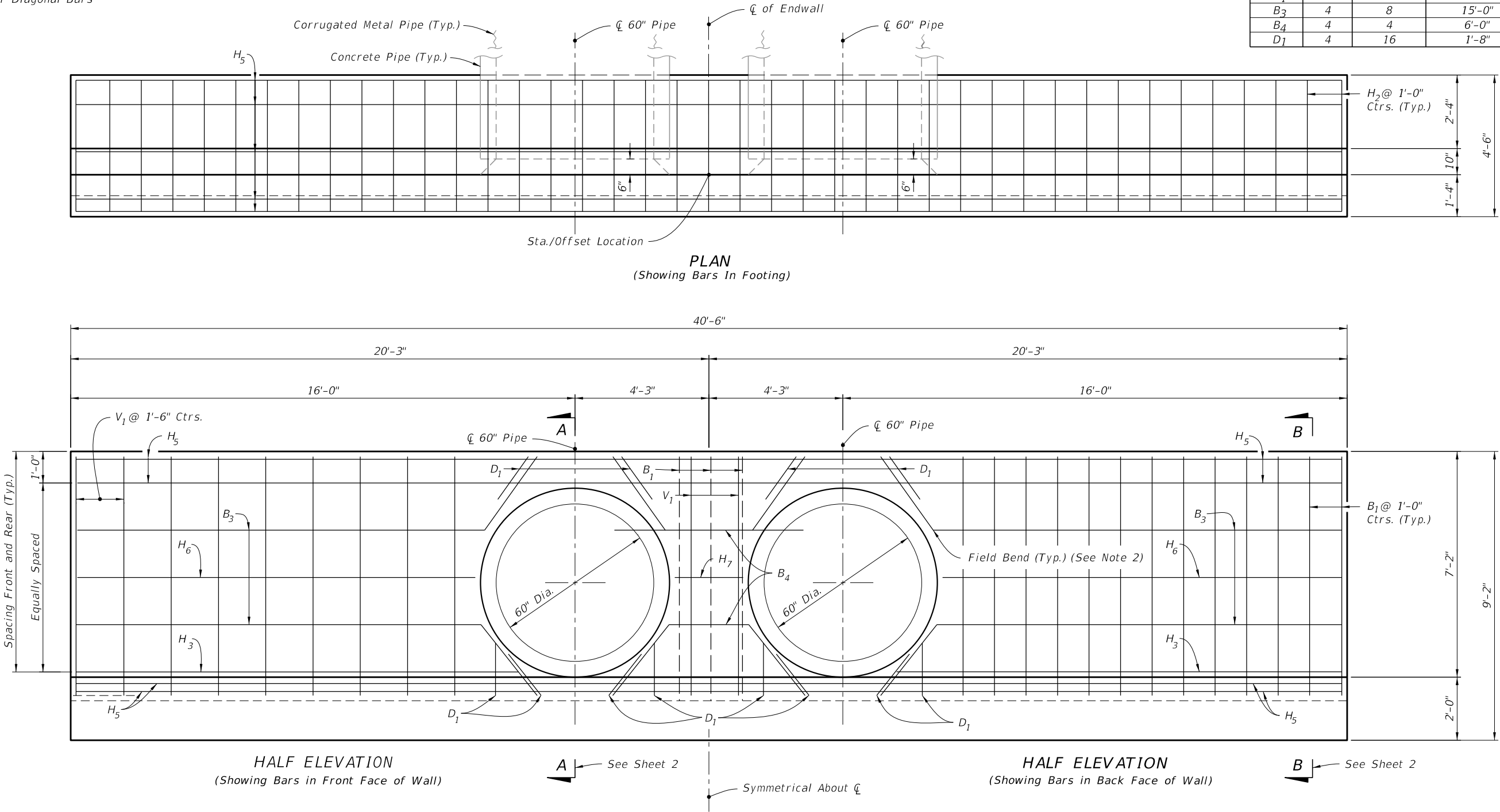
<p style="text-align: center;">TABLE 1</p> <p style="text-align: center;">SINGLE 60" PIPE</p> <p style="text-align: center;">ESTIMATED QUANTITIES</p>			
ITEM	UNIT	RCP	CMP
Class II Concrete	Cu. Yd.	11.3	11.4
Reinforcing Steel	Lb.	695	695
BILL OF REINFORCING STEEL			
MARK	SIZE	NO. REQD.	LENGTH
H ₁	4	9	31'-8"
H ₂	4	32	4'-2"
H ₃	4	4	13'-9"
H ₄	4	4	12'-4"
V ₁	4	18	7'-6"
B ₁	4	26	9'-4"
B ₂	4	4	31'-8"
D ₁	4	8	1'-8"

- NOTES:**
- 2" clearance on all reinforcement, unless otherwise shown.
 - Cut and bend B_3 Bars as shown.
 - All bar dimensions are out to out.

LEGEND:

H = Horizontal Bars
V = Vertical Bars
B = Bent Bars
D = Dowels or Diagonal Bars

TABLE 2			
DOUBLE 60" PIPE			
ESTIMATED QUANTITIES			
ITEM	UNIT	RCP	CMP
Class II Concrete	Cu. Yd.	13.7	13.8
Reinforcing Steel	Lb.	824	824
BILL OF REINFORCING STEEL			
MARK	SIZE	NO. REQD.	LENGTH
H ₂	4	41	4'-2"
H ₃	4	4	13'-9"
H ₅	4	9	40'-2"
H ₆	4	4	12'-6"
H ₇	4	2	2'-2"
V ₁	4	20	7'-6"
B ₁	4	29	9'-4"
B ₃	4	8	15'-0"
B ₄	4	4	6'-0"
D ₁	4	16	1'-8"



DOUBLE 60" PIPE ENDWALL DETAILS

LAST REVISION	DESCRIPTION:	FY 2027-28 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND DOUBLE 60" PIPE	INDEX	SHEET
11/01/19				430-031	3 of 3