GENERAL NOTES:

1. Use Class II concrete.

2. Reinforcing steel is either Grade 40 or 60.

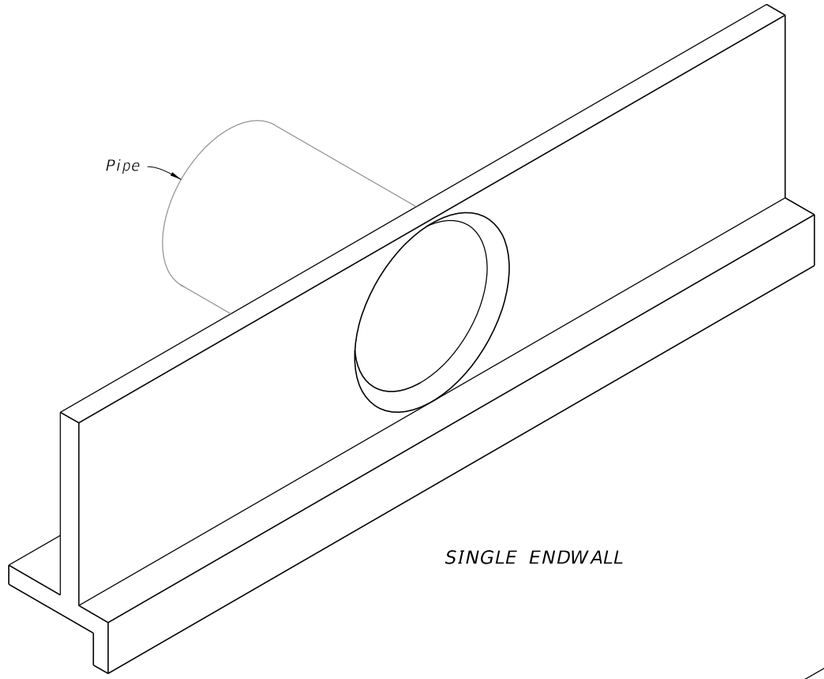
3. Endwalls may be cast in place or precast concrete. The Contractor or the Supplier will determine the additional reinforcement necessary for handling precast units.

4. Chamfer all exposed edges and corners ¾" unless otherwise shown.

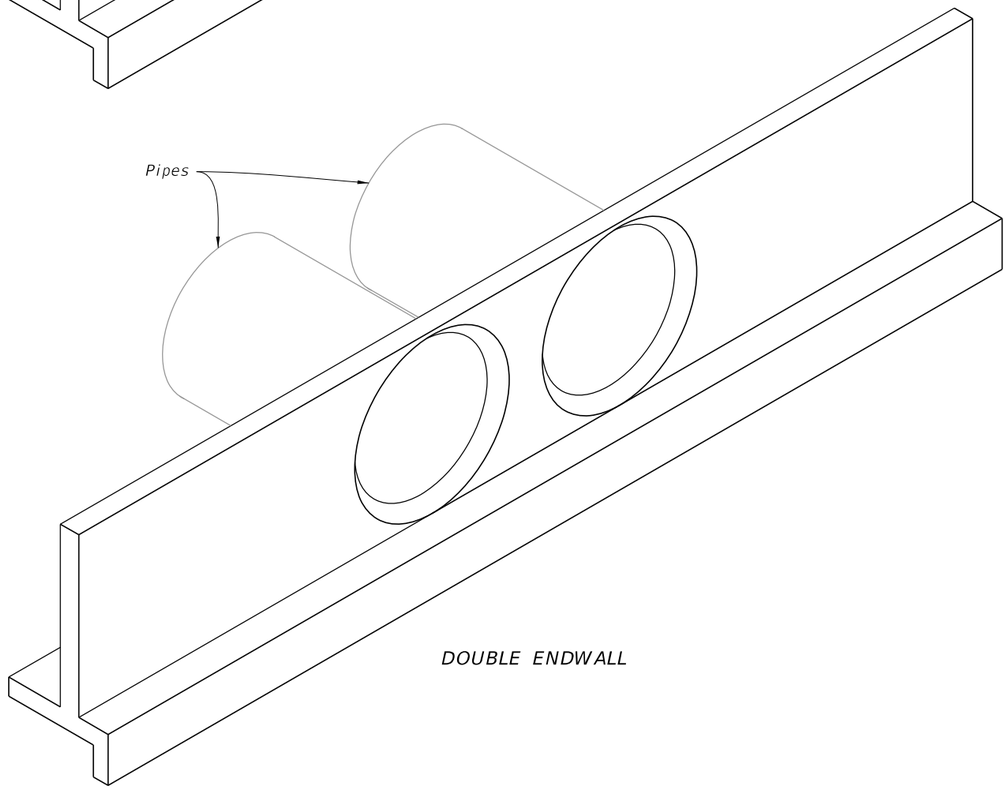
5. Quantities shown are for estimating purposes only.

TABLE OF CONTENTS:

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



SINGLE ENDWALL



DOUBLE ENDWALL

STRAIGHT CONCRETE ENDWALLS 60" PIPE

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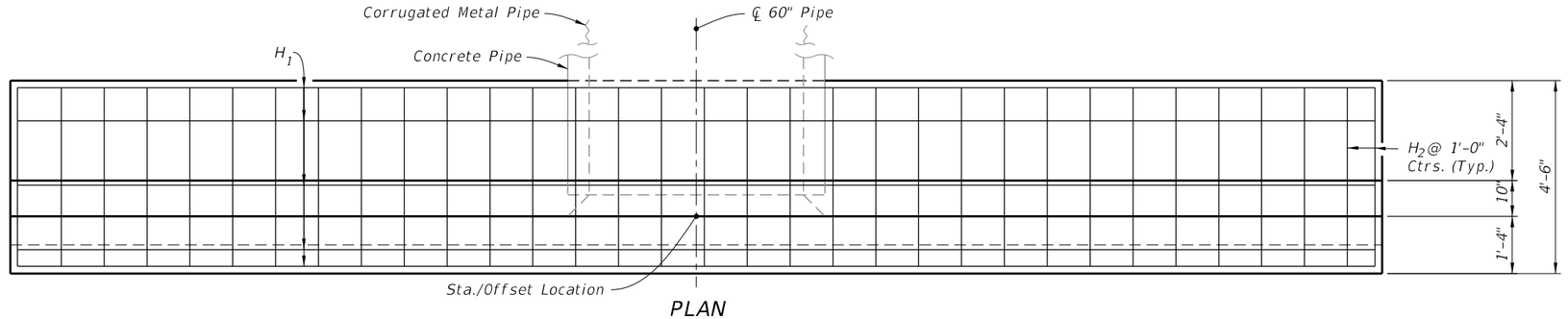
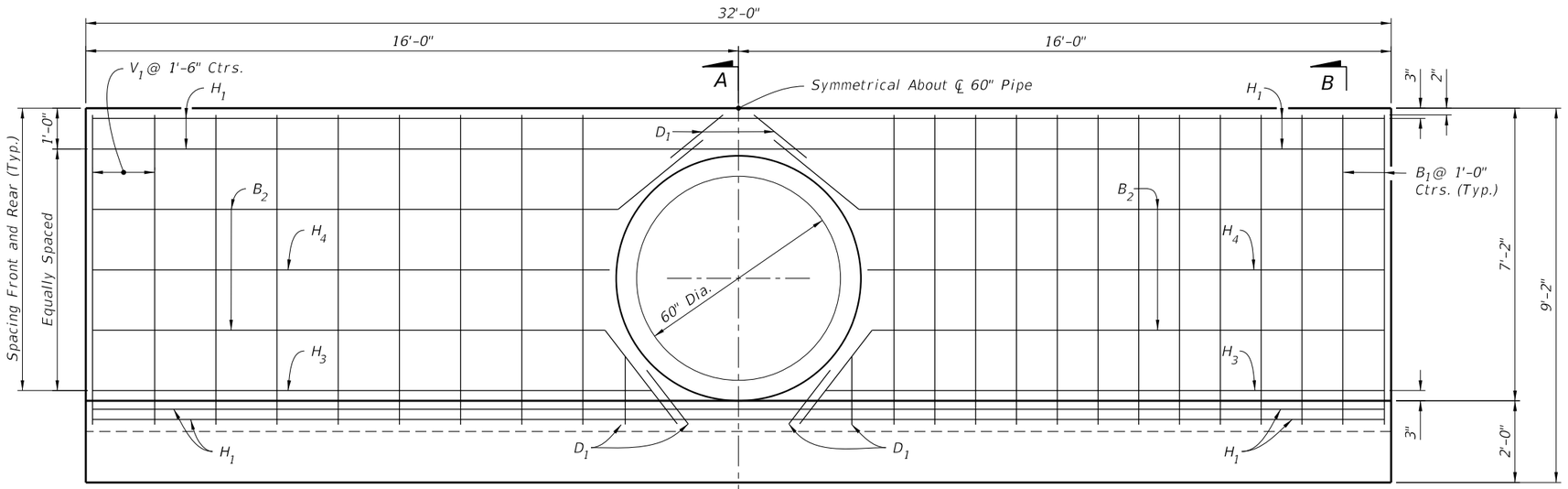


PLAN
(Showing Bars In Footing)



HALF ELEVATION
(Showing Bars in Front Face of Wall)

A

HALF ELEVATION
(Showing Bars in Back Face of Wall)

B

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:

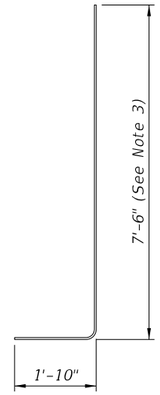
H = Horizontal Bars B = Bent Bars
V = Vertical Bars D = Dowels or Diagonal Bars

SINGLE 60" PIPE ESTIMATED QUANTITIES

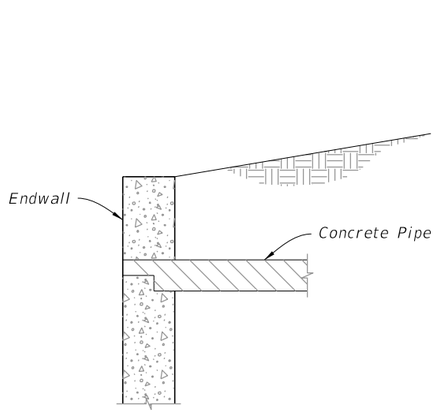
ITEM	UNIT	RCP	CMP
Class II Concrete	Cu. Yd.	11.3	11.4
Reinforcing Steel	Lb.	695	695

BILL OF REINFORCING STEEL

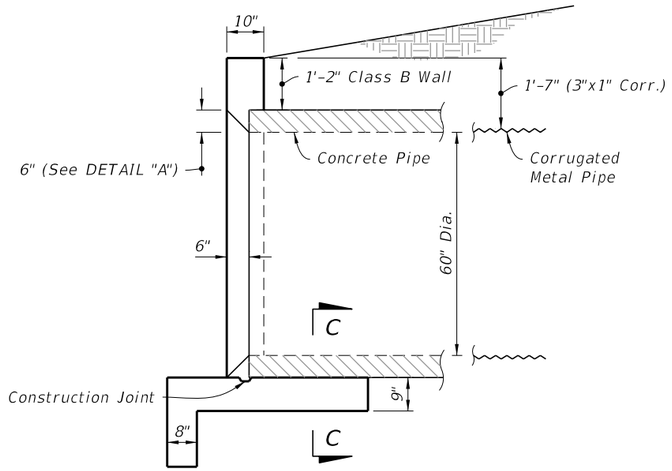
MARK	SIZE	NO. REQD.	LENGTH
H_1	4	9	31'-8"
H_2	4	32	4'-2"
H_3	4	4	13'-9"
H_4	4	4	12'-4"
V_1	4	18	7'-6"
B_1	4	26	9'-4"
B_2	4	4	31'-8"
D_1	4	8	1'-8"



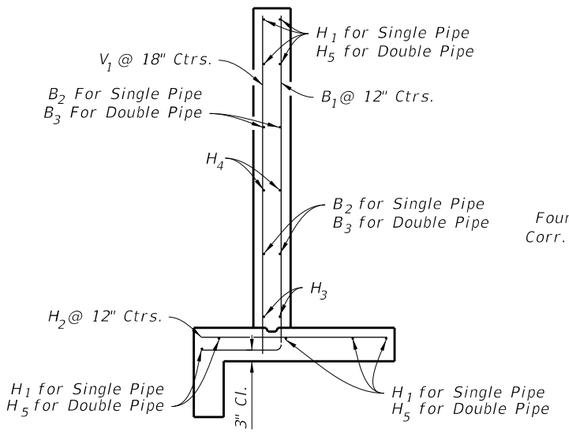
BAR B_1
BENDING DIAGRAM



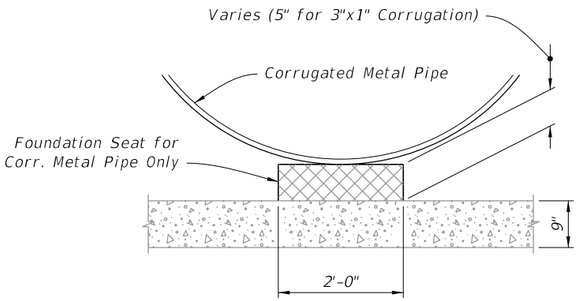
DETAIL "A"
(Concrete Pipe Optional Entrance)



SECTION A-A
(Rebar Not Shown)



SECTION B-B
(Typical Section)



SECTION C-C

SINGLE 60" PIPE ENDWALL DETAILS

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NOTES:

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

LEGEND:

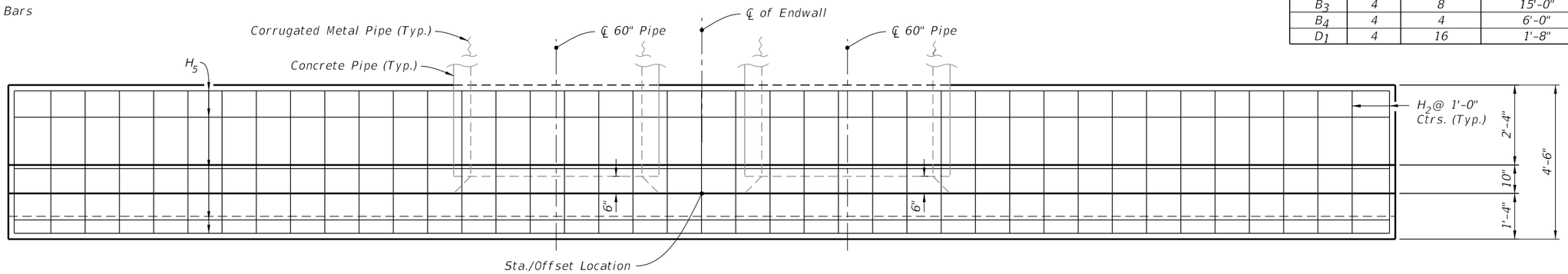
H = Horizontal Bars
V = Vertical Bars
B = Bent Bars
D = Dowels or Diagonal Bars

DOUBLE 60" PIPE ESTIMATED QUANTITIES

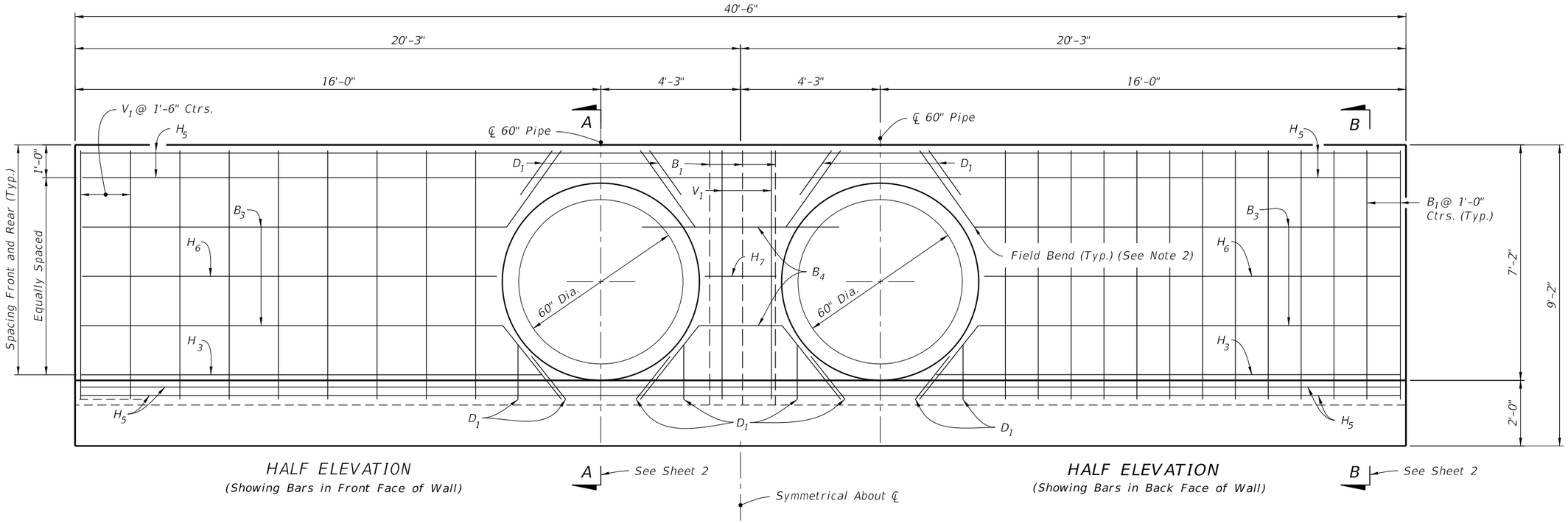
ITEM	UNIT	RCP	CMP
Class II Concrete	Cu. Yd.	13.7	13.8
Reinforcing Steel	Lb.	824	824

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"



PLAN
(Showing Bars In Footing)



HALF ELEVATION
(Showing Bars in Front Face of Wall)

A ← See Sheet 2

Symmetrical About ℄

HALF ELEVATION
(Showing Bars in Back Face of Wall)

B ← See Sheet 2

DOUBLE 60" PIPE ENDWALL DETAILS

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
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