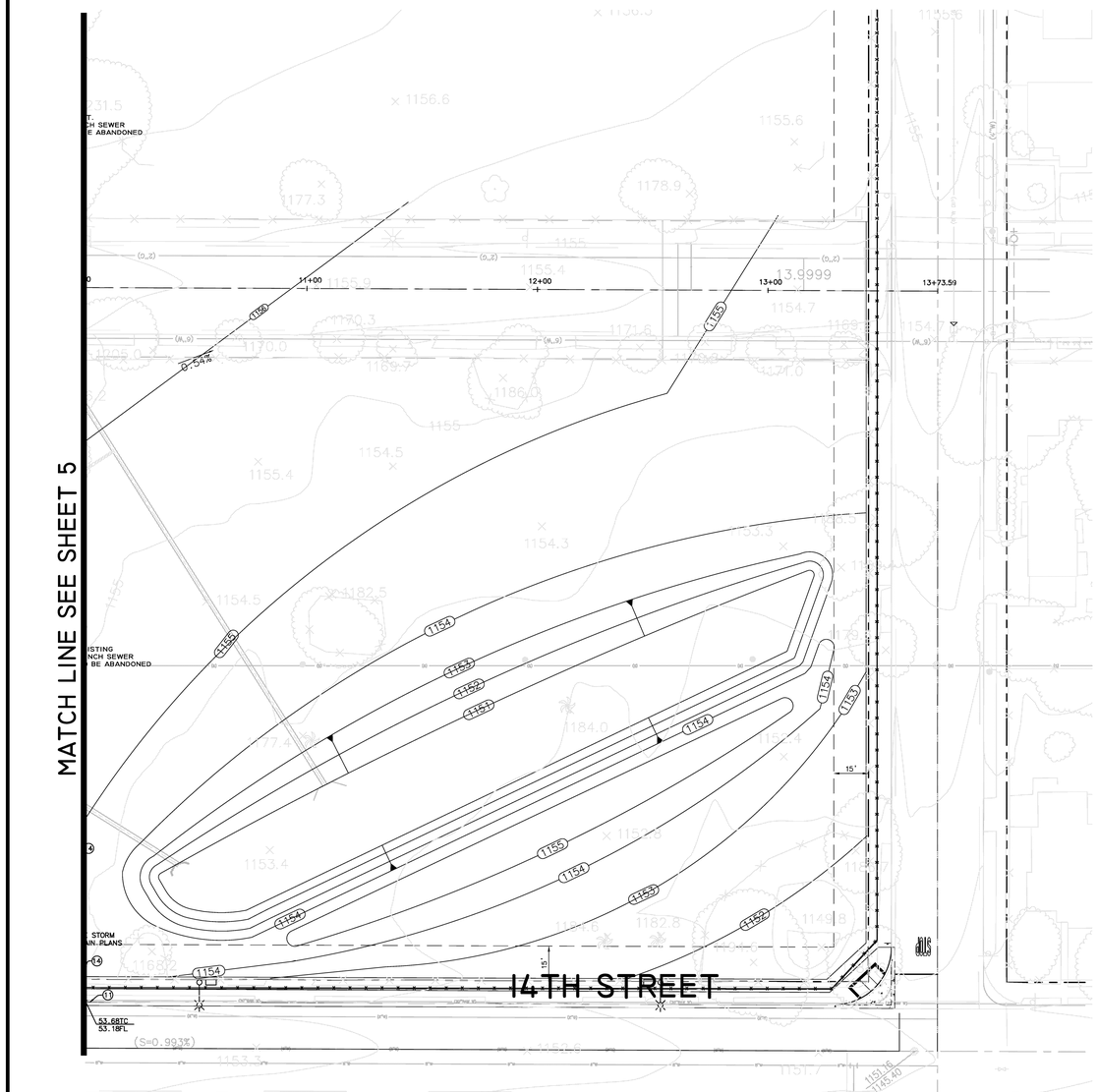
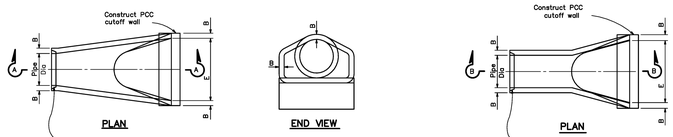
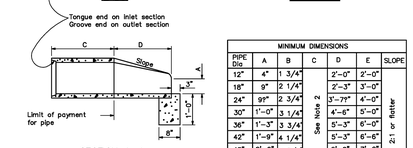
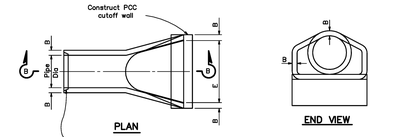


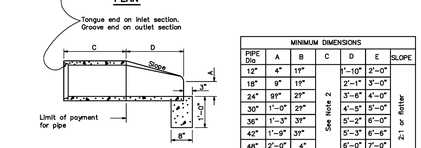




MINIMUM DIMENSONS						
PIPE Dia	A	B	C	D	E	SLOPE
12"	4"	1 3/4"	See Note 2	2'-0"	2'-0"	2:1 or flatter
18"	9"	2 1/4"		2'-3"	3'-0"	
24"	99"	2 3/4"		3'-77"	4'-0"	
30"	1'-0"	3 1/4"		4'-6"	5'-0"	
36"	1'-3"	3 3/4"		5'-3"	6'-0"	
42"	1'-9"	4 1/4"		5'-3"	6'-6"	
48"	2'-0"	4 3/4"		6'-0"	7'-0"	
54"	2'-3"	5 1/4"		5'-5"	7'-6"	

PRECAST CONCRETE FLARED END SECTION TYPE A





MINIMUM DIMENSIONS						
PIPE Dia	A	B	C	D	E	SLOPE
12"	4"	19"	See Note 2	1'-10"	2'-0"	2:1 or flatter
18"	9"	19"		2'-1"	3'-0"	
24"	99"	27"		3'-6"	4'-0"	
30"	1'-0"	27"		4'-5"	5'-0"	
36"	1'-3"	39"		5'-2"	6'-0"	
42"	1'-9"	39"		5'-3"	6'-6"	
48"	2'-0"	4"		6'-0"	7'-0"	
54"	2'-3"	49"		5'-6"	8'-10"	

PRECAST CONCRETE FLARED END SECTION TYPE B

NOTES:

1. Contractor has the option of using either Type A or B precast concrete flared end section.
2. "C" dimension varies by manufacturer and will be paid for as concrete pipe.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE FLARED END SECTIONS

NO SCALE

D94B

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

E0901510

Underground Service Alert

Call: TOLL FREE
1–800
227–2600

TWO WORKING DAYS BEFORE YOU DIG

MARK	REVISIONS	BY	APPR.	DATE

BENCHMARK = CITY OF SAN BERNARDINO BM# G1–41.
ELEVATION 1158.763 FT.

BRASS DISK CSB G1–41. 41.25 FT. EAST & 30.0 FT SOUTH OF THE CENTERLINE P.I. OF MT. VERNON & 14TH ST. ;9.75 FT. SOUTH OF THE SOUTH CURBLINE OF 14TH ST. 9.25 FT. EAST OF THE EAST CURBLINE OF MT.VERNON AVE. ' 2.0 FT EAST OF THE NORTH/SOUTH SIDEWALK ABOUT 0.2 FEET LOWER THEN THE PAVEMENT.

Raco Enterprises Inc
Engineering and Construction Services
12139 MOUNT VERNON AVENUE, SUITE 210
GRAND TERRACE, CA 92313
TEL (909) 824–7230 FAX (909) 824–7385

REGISTERED PROFESSIONAL ENGINEER
MARIA I. FRASER
No. 56005
EXP. DATE 12/31/12
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

MARIA I. FRASER
RCE NO. 56005
EXP. 12/31/2012
DATE

DESIGNED BY: JRN, SM
DRAWN BY: JRN, SM
CHECKED BY: MIF

CITY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:

ROBERT G. EISENBEISZ, P.E.
CITY ENGINEER
RCE NO. 54931, EXP. 6/30/2012
DATE

CITY OF SAN BERNARDINO

DEVELOPMENT SERVICES–PUBLIC WORKS/ENGINEERING

PRECISE GRADING PLAN

ROOSEVELT SCHOOL ELEMETARY SCHOOL

DRAWING NO. 12343

SHEET C-6 OF 10 SHEETS

FOR CITY USE ONLY: FILE NO. W.O. NO.

RE-BID #F09-02 ROOSEVELT II (HENRY) E.S. NEW CONSTRUCTION BID ISSUANCE SET 12/09/11