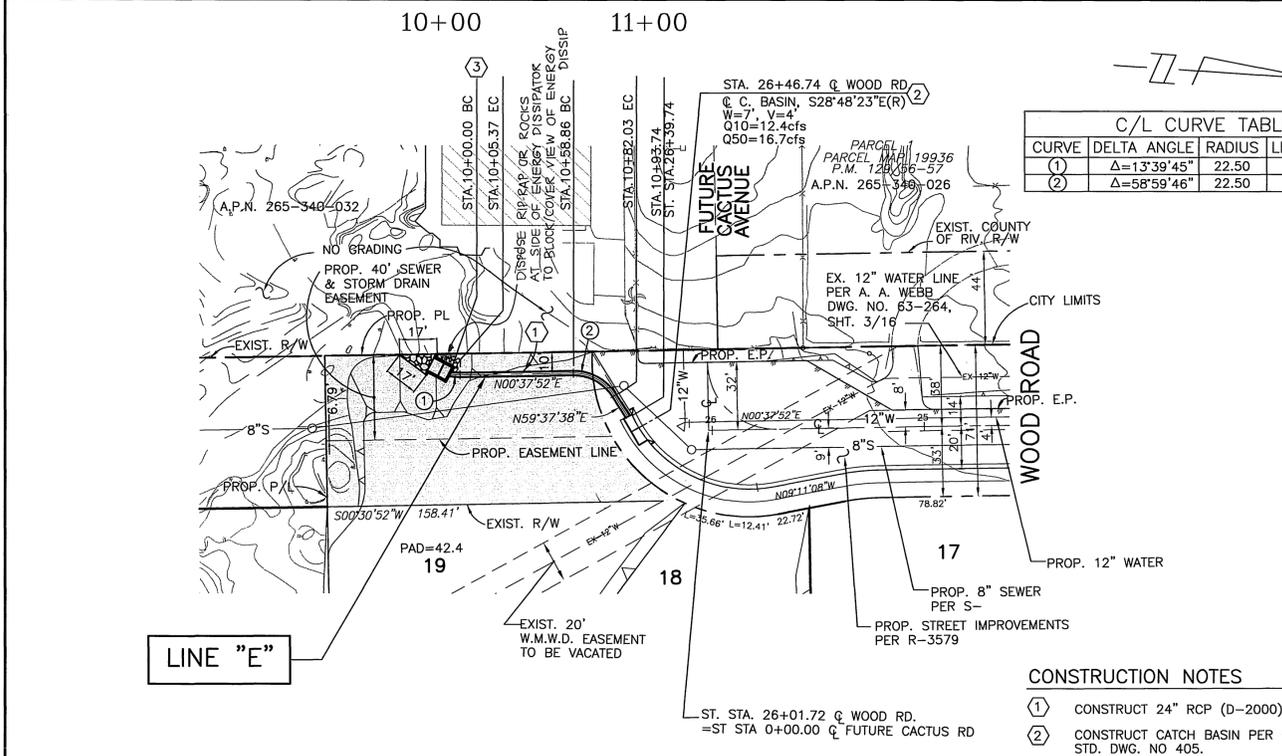


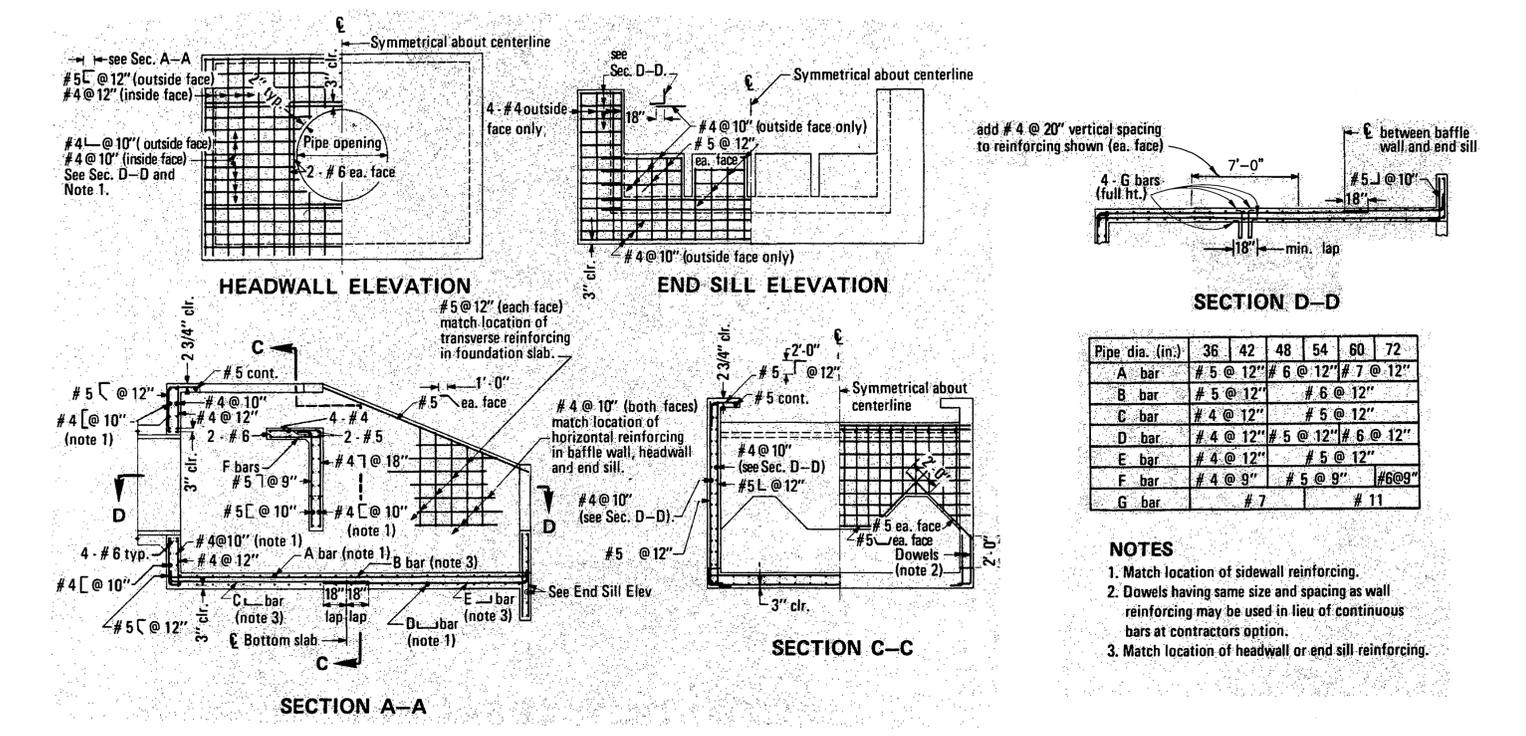
Pipe Dia (in)	18	24	30	36	42	48	54	60	72
Area (sq. ft.)	1.77	3.14	4.91	7.07	9.62	12.57	15.90	19.63	28.27
Max. Q (cfs)	21	38	59	85	115	151	191	236	339
W	5'-6"	6'-9"	8'-0"	9'-3"	10'-6"	11'-9"	13'-0"	14'-3"	16'-6"
H	4'-3"	5'-3"	6'-3"	7'-3"	8'-0"	9'-0"	9'-9"	10'-9"	12'-3"
L	7'-4"	9'-0"	10'-8"	12'-4"	14'-0"	15'-8"	17'-4"	19'-0"	22'-0"
a	3'-3"	3'-11"	4'-7"	5'-3"	6'-0"	6'-9"	7'-4"	8'-0"	9'-3"
b	4'-1"	5'-11"	6'-1"	7'-1"	8'-0"	8'-11"	10'-0"	11'-0"	12'-9"
c	2'-4"	2'-10"	3'-4"	3'-10"	4'-5"	4'-11"	5'-5"	5'-11"	6'-11"
d	0'-11"	1'-2"	1'-4"	1'-7"	1'-9"	2'-0"	2'-2"	2'-5"	2'-9"
e	0'-6"	0'-6"	0'-8"	0'-8"	0'-8"	0'-10"	1'-0"	1'-0"	1'-3"
f	1'-6"	2'-0"	2'-6"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
g	2'-1"	2'-6"	3'-0"	3'-6"	3'-11"	4'-5"	4'-11"	5'-4"	6'-2"
Tf		8"			10"			12"	
Tb		7"			9 1/2"			10 1/2"	
Tw		7"			9 1/2"			10 1/2"	
Ta		7"			9 1/2"		8"		

- Notes**
- Design: Equivalent Fluid Pressure = 60 p.c.f.  
Maximum Outlet Velocity = 35 f.p.s.
  - Concrete shall be 560-C-3250
  - Reinforcing shall conform to ASTM designation A615 and may be grade 40 or 60. Reinforcing shall be placed with 2" clear concrete cover unless noted otherwise. Splices shall not be permitted except as indicated on the plans.
  - For pipe grades not exceeding 20%, inlet box may be omitted.
  - If inlet box is omitted, construct pipe collar as shown.
  - Unless noted otherwise, all reinforcing bar bends shall be fabricated with standard hooks.
  - Five foot high chain link fencing, embed post 18" deep in walls and enclose with Class B mortar.
  - In Sandy and Silty soil:
    - Riprap and aggregate base cutoff wall required at the end of rock apron.
    - Filter cloth (Polyfilter X or equivalent) shall be installed on native soil and base, minimum of 1 ft. overlaps at joints.
  - Riprap and subbase classification shall be as shown on plans.



**C/L CURVE TABLE**

CURVE	DELTA ANGLE	RADIUS	LENGTH	TANGENT
(1)	Δ=13°39'45"	22.50	5.37	2.70
(2)	Δ=58°59'46"	22.50	23.17	12.73



REVIEWED BY W.M.W.D. SHEETS 1-2 FOR NON-INTERFERENCE COMPLIANCE ONLY

*W.M.W.D.* 11/3/00  
CIVIL ENGINEER #46212 DATE

Underground Service Alert

Call: TOLL FREE  
1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

*Tedell*  
REGISTERED CIVIL ENGINEER NO. 50293  
EXPIRATION DATE: 6-30-01 DATE: 10/31/00

PREPARED UNDER THE DIRECTION OF:

*Tedell*  
REGISTERED CIVIL ENGINEER NO. 50293  
EXPIRATION DATE: 6-30-01 DATE: 10/31/00

**CEG** CANTY ENGINEERING GROUP, INC.  
CIVIL ENGINEERING - PLANNING - SURVEYING

2020 IOWA AVENUE, SUITE 102, P.O. BOX 52050, RIVERSIDE, CA 92517  
TEL (909) 683-5234 FAX (909) 683-5301

SCALE: AS SHOWN BENCH MARK CITY OF RIVERSIDE BENCH MARK: EB-A2 P.K. NAIL AND TAG IN TOP OF 35" X 50" X 20" GRANITE BOULDER, 100' WLY OF TRAUTWEN ROAD AND 500 FEET NLY OF JESSE LANE. FB 735V74 ELEV: 1588.453

DESIGNED BY T.C.L. DRAWN BY C.C. CHECKED BY J.W.C.

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *R. McQuinn*  
DIRECTOR OF PUBLIC WORKS

DATE: 1-19-01

TRACT NO. 28828-1  
STORM DRAIN PLANS  
LINE "E"  
& DETAILS

FOR: SHEFFIELD HOMES

PROJECT NO. **D-682**

SHEET 2 OF 2

FILE NO.: 1022-002

INDEXED 1-29-01