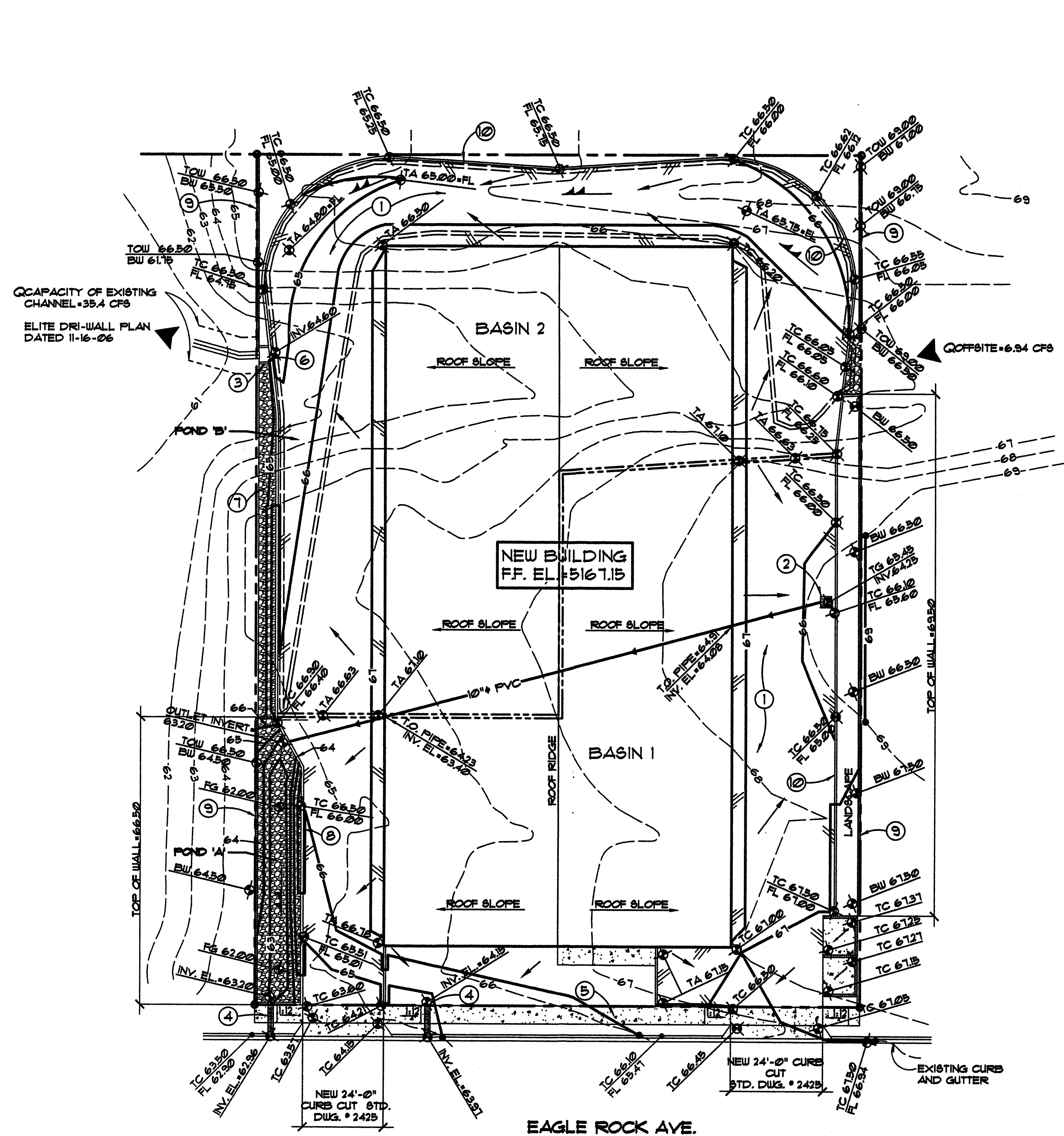
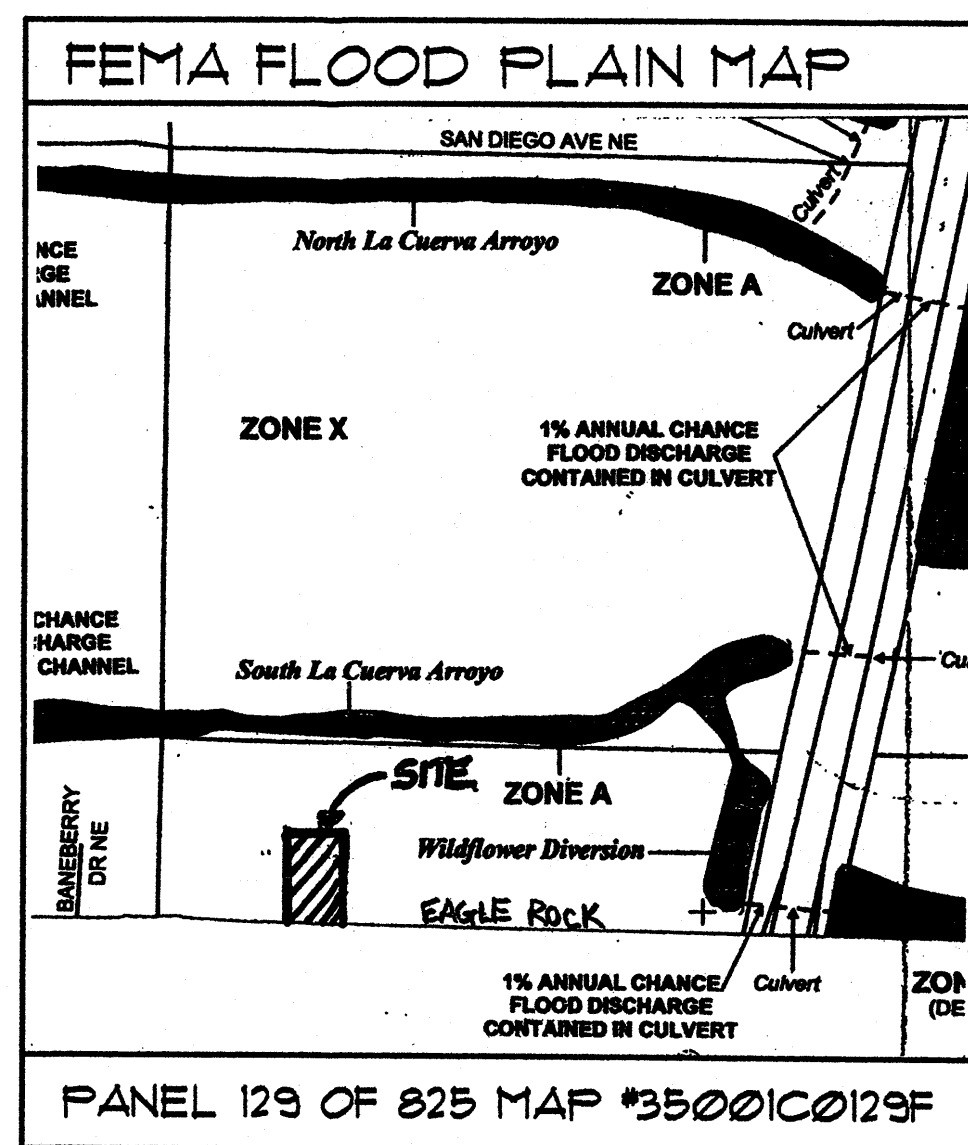
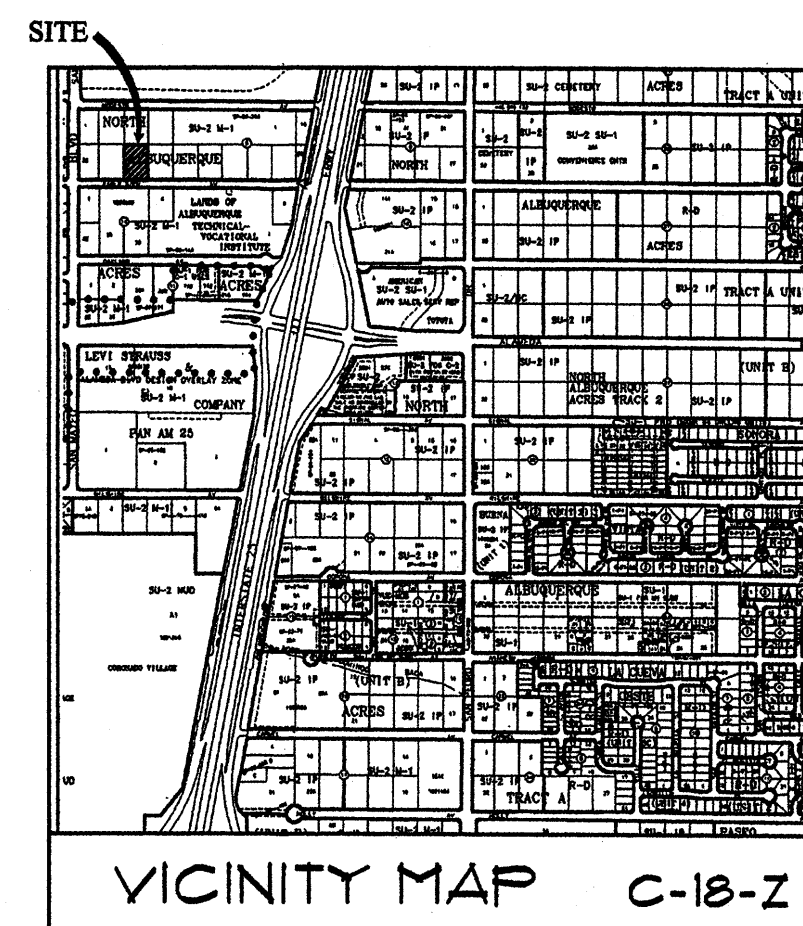




Grading and Drainage Plan

PUBLIC R.O.W. CONSTRUCTION NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THE CONTRACT SHALL, EXCEPT AS OTHERWISE STATED AND PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION 1988"
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE, 262-1992, FOR LOCATION OF EXISTING LINES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- BACK FILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE (ARTERIAL/COLLECTOR).
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.



LEGAL DESCRIPTION

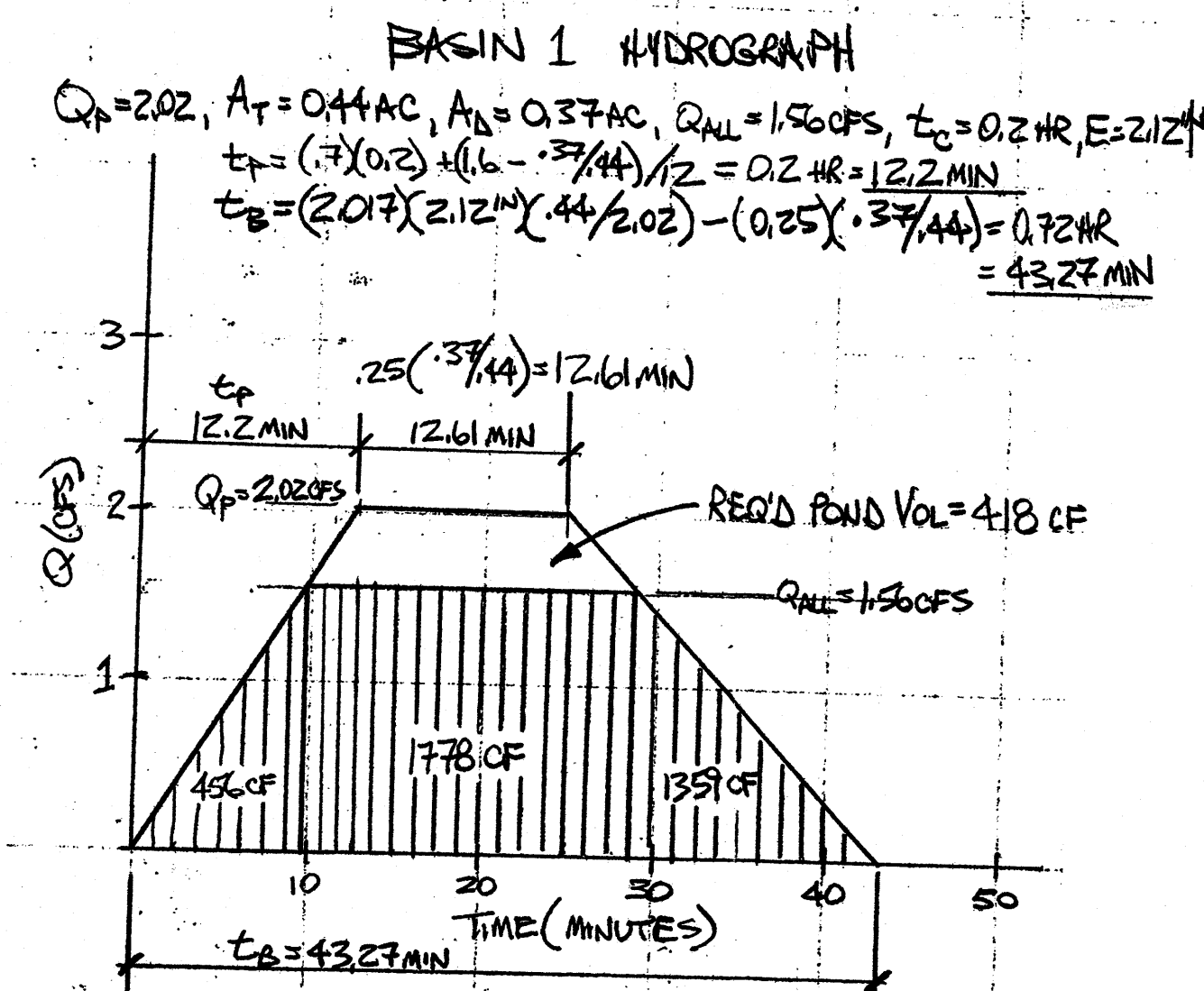
LOT 30, IN BLOCK 9, IN TRACT LETTERED "A", IN UNIT LETTERED "B", OF NORTH ALBUQUERQUE ACRES SUBDIVISION, TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 3					C.O.A. DFM VOL. 2, SECTION 222						
DESIGN STORM: (IN)					1hr	6hr	24hr	4day	10day		
					2.14	2.60	3.10	3.95	4.92		
EXISTING CONDITIONS-BASIN 1											
LAND TRMT	AREA (ACRE)	AREA %	P6	Q (CFS/AC)	Q (CFS)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)		
A	0.00	0%	0.66	1.81	0.00	0	0	0	0		
B	0.44	100%	0.52	2.60	1.13	1.453	1.453	1.453	1.453		
C	0.00	0%	1.29	3.45	0.00	0	0	0	0		
D	0.00	0%	2.36	5.02	0.00	0	0	0	0		
TOTALS	0.44	100%			1.13	1.453	1.453	1.453	1.453		
EXISTING CONDITIONS-BASIN 2											
LAND TRMT	AREA (ACRE)	AREA %	P6	Q (CFS/AC)	Q (CFS)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)		
A	0.00	0%	0.66	1.81	0.00	0	0	0	0		
B	0.45	100%	0.52	2.60	1.18	1.509	1.509	1.509	1.509		
C	0.00	0%	1.29	3.45	0.00	0	0	0	0		
D	0.00	0%	2.36	5.02	0.00	0	0	0	0		
TOTALS	0.45	100%			1.18	1.509	1.509	1.509	1.509		
PROPOSED CONDITIONS-BASIN 1											
LAND TRMT	AREA (ACRE)	AREA %	P6	Q (CFS/AC)	Q (CFS)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)		
A	0.00	0%	0.66	1.81	0.00	0	0	0	0		
B	0.07	16%	0.52	2.60	0.18	2.21	2.21	2.21	2.21		
C	0.00	0%	1.29	3.45	0.00	0	0	0	0		
D	0.37	84%	2.36	5.02	1.84	3.144	3.810	4.342	6.208		
TOTALS	0.44	100%			2.02	3.311	4.031	5.110	6.435		
PROPOSED CONDITIONS-BASIN 2											
LAND TRMT	AREA (ACRE)	AREA %	P6	Q (CFS/AC)	Q (CFS)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)		
A	0.00	0%	0.66	1.81	0.00	0	0	0	0		
B	0.03	8%	0.52	2.60	0.09	1.14	1.14	1.14	1.14		
C	0.00	0%	1.29	3.45	0.00	0	0	0	0		
D	0.42	92%	2.36	5.02	2.10	3.581	4.340	5.629	7.071		
TOTALS	0.45	100%			2.19	3.634	4.453	5.743	7.184		
POND 'A' CAPACITY: 10'x9'x15' = 472 CF											
POND 'B' CAPACITY: = 66.40 CONTOUR A=513.0 SF VOLUME											
66.00 CONTOUR A=481.3 SF 155.0 CF											
65.00 CONTOUR A=159.0 SF 26.6 CF											
64.60 CONTOUR A= 1.0 SF 225.0 CF											
TOTAL = 4831 CF											

POND 'A' CAPACITY: 10'x9'x1.5' = 412 CF

POND 'B' CAPACITY: 66.40 CONTOUR A=5130 SF VOLUME 1950 CF
66.00 CONTOUR A=4513 SF 2662 CF
65.00 CONTOUR A=1750 SF 225 CF
64.60 CONTOUR A=1 SF TOTAL = 4837 CF



KEYED NOTES

- NEW AC PAVING PER DETAIL 3/C102.
- STORM INLET PER DETAIL 2/C102.
- CONCRETE CHANNEL PER DETAIL 1/C102.
- 18" WIDE SIDEWALK CULVERT PER STANDARD DRAWING 9236.
- 6'-0" WIDE CONCRETE SIDEWALK PER C.O.A. STD. DRWG. 9243.
- DRAINAGE OUTLET PER DETAIL 1/C102.
- SLOPED ROCK FACING.
- 4000 PSI CONCRETE CURB PER DETAIL 4/C102
- 8" CMU RETAINING WALL PER 6/C102
- 4000 PSI CONCRETE CURB PER DETAIL 5/C102

LEGEND

---	PROPERTY LINE
---	EXISTING CONTOUR
---	NEW CONTOUR
+	NEW SPOT ELEVATION
+	EXISTING SPOT ELEVATION
→	FLOW DIRECTION
→	SWALE DIRECTION
TG	TOP OF GRATE
FF	FINISHED FLOOR
FG	FINISHED GRADE
TC	TOP OF CONCRETE
FL	FLOWLINE
TA	TOP OF ASPHALT
INV.	INVERT
---	EDGE OF NEW ASPHALT
---	NEW CONCRETE
---	NEW BUILDING
---	BASIN DIVISION LINE
---	100-YR POND LEVEL = 66.40 • POND 'B'

BENCHMARK

ACS STATION "10-CIT", ELEV. 5175.24 (NAVD 88) PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON.

DESIGN NARRATIVE

THE SITE ORIGINALLY WAS UNIMPROVED WITH A PREVAILING EAST TO WEST SLOPE AND SWALE CARRYING OFF SITE RUNOFF ACROSS THE 0.89 AC SITE. THE DOWNSIDE PROPERTY TO THE WEST HAS A SWALE WITH CAPACITY TO HANDLE 36 CFS WHICH DIRECTS FLOW TO C.O.A. STORM DRAIN AT SAN MATEO. HALF OF THE DEVELOPED RUNOFF OF THIS SUBJECT SITE WILL FLOW TO THIS SWALE ON THE NORTH SIDE OF THE NEW BUILDING (BASIN 2). BASIN 2 DEVELOPMENT WILL INCREASE FLOW TO THE SWALE BY 120 CFS. BASIN 1 RUNOFF IS DIRECTED TO THE PAVED AND IMPROVED EAGLE ROCK AVE. VIA ON SITE STORM DRAIN LINE AND ROCK LINED SWALE OR SURFACE SHEET FLOW THROUGH SIDEWALK CULVERTS - SEE PLAN. THIS DEVELOPED BASIN WILL RESULT IN AN INCREASED FLOW TO CURB INLETS WEST OF THE SITE AND INTO 48" STORM DRAIN IN SAN MATEO BLVD. NE. PONDING PROVIDED ON THE SOUTH SIDE OF THE SITE WILL PROVIDE A CONTROLLED RELEASE OF RUNOFF LIMITED TO 116 CFS/ACRE OR 156 CFS TO DRAINAGE FACILITIES IN EAGLE ROCK.

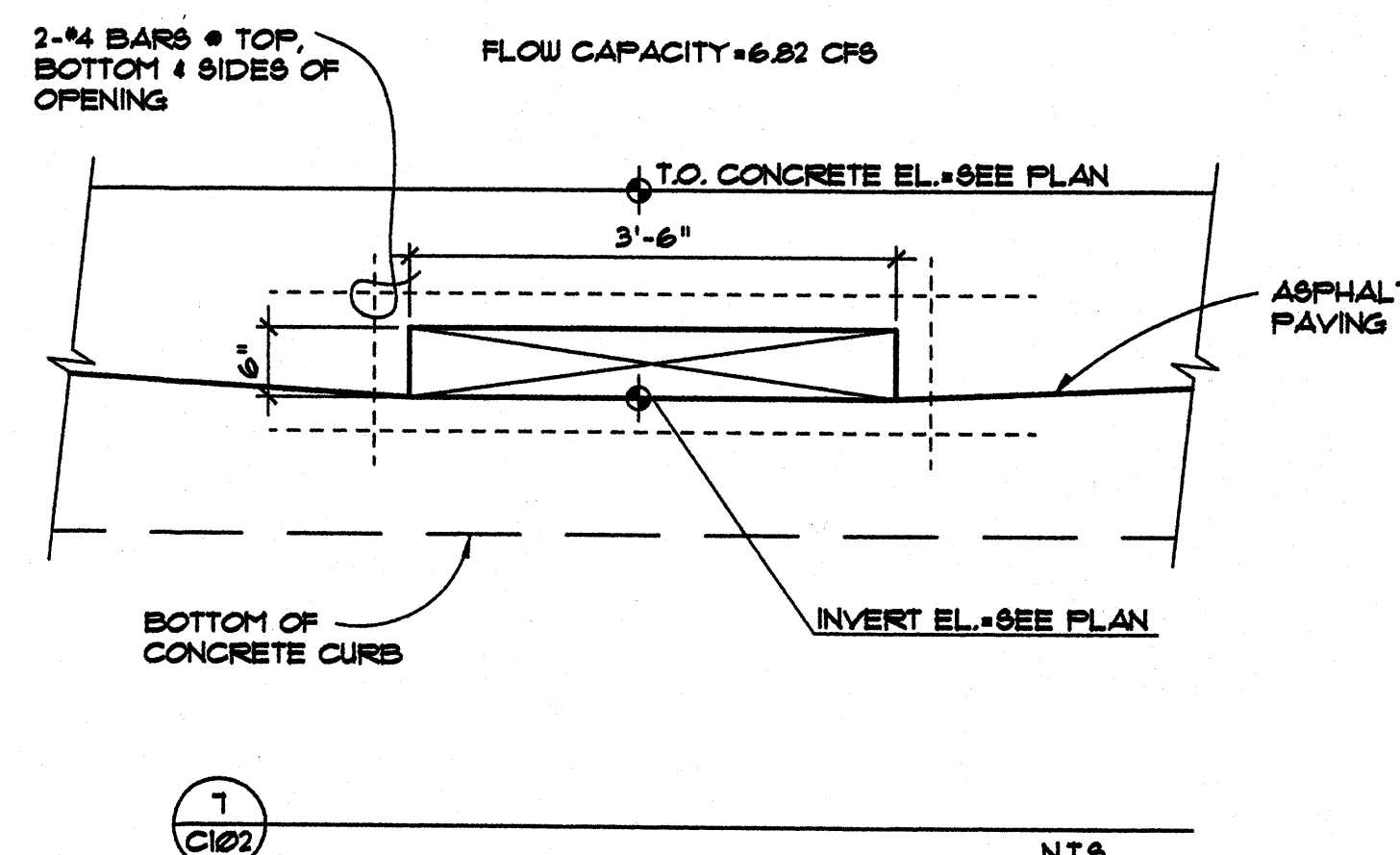
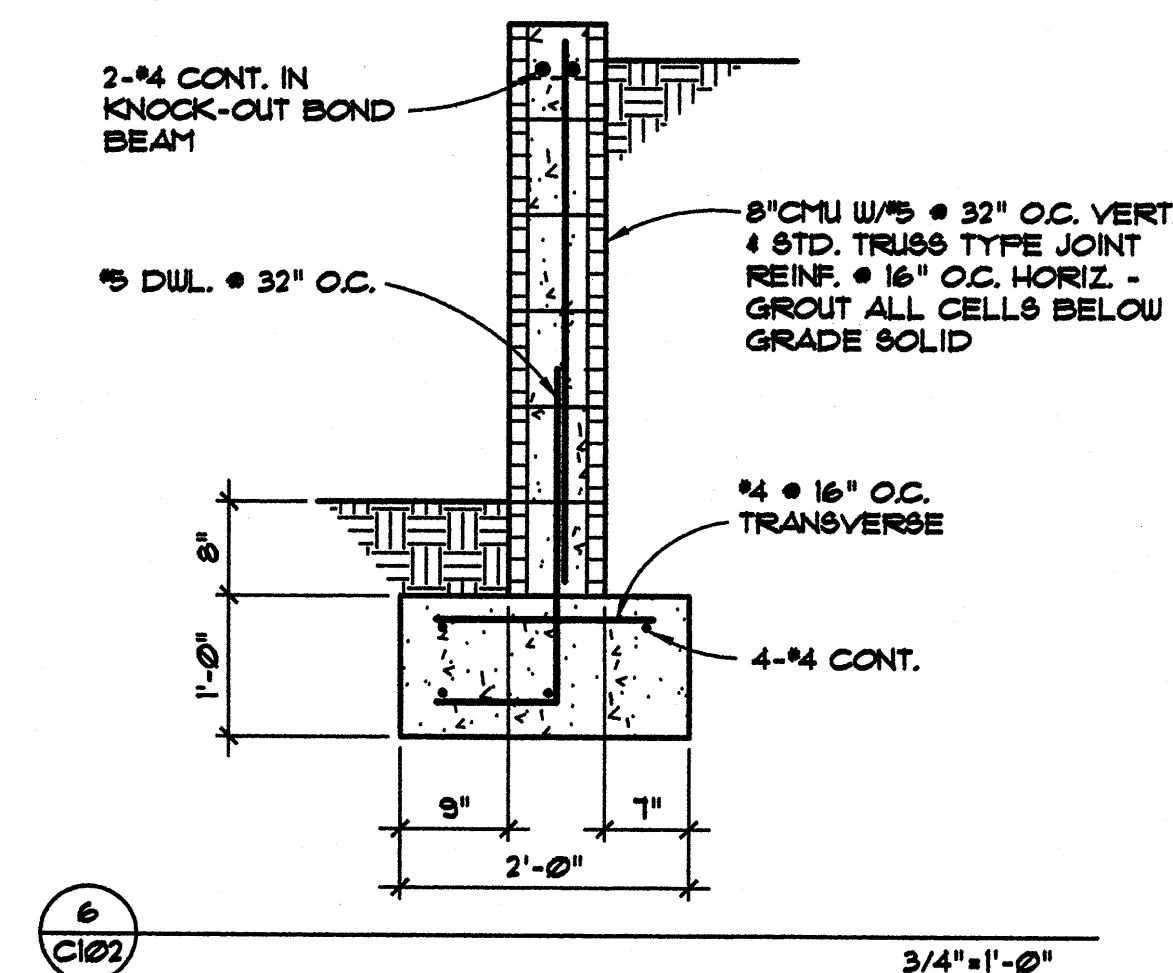
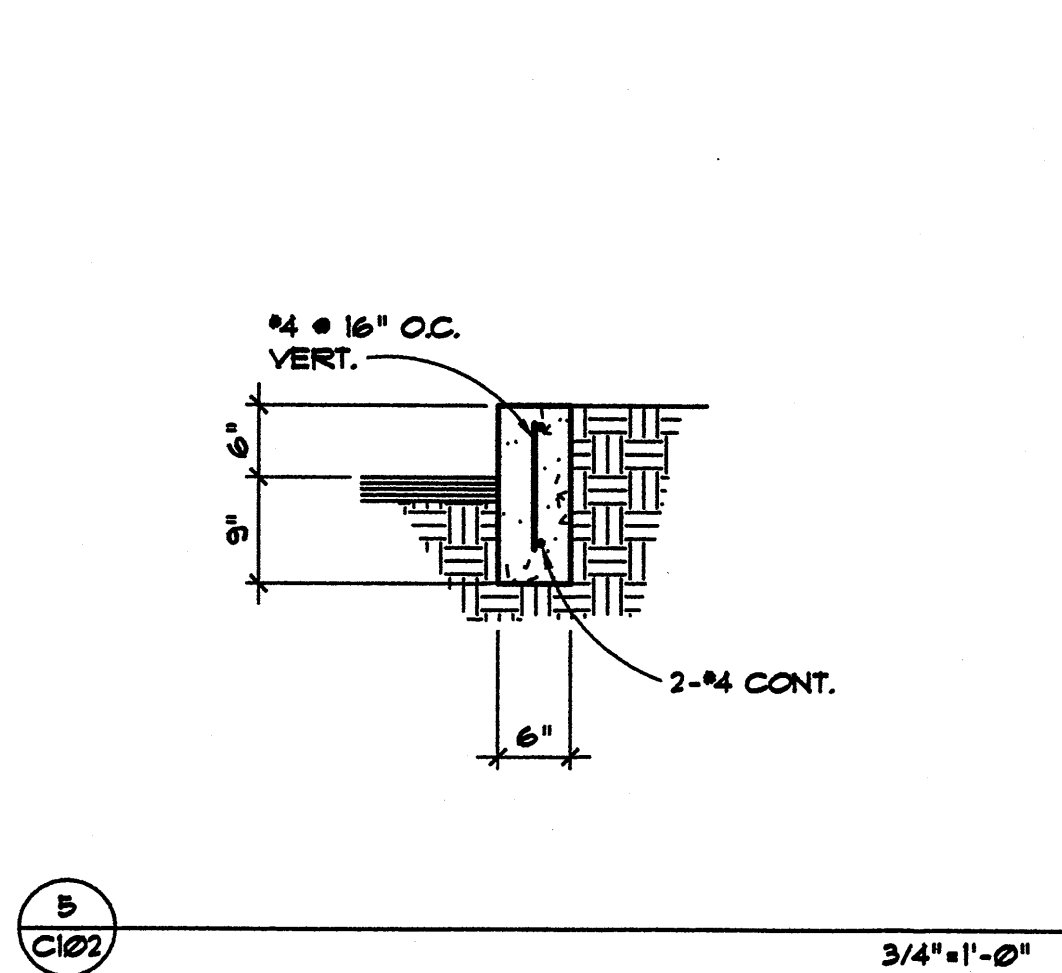
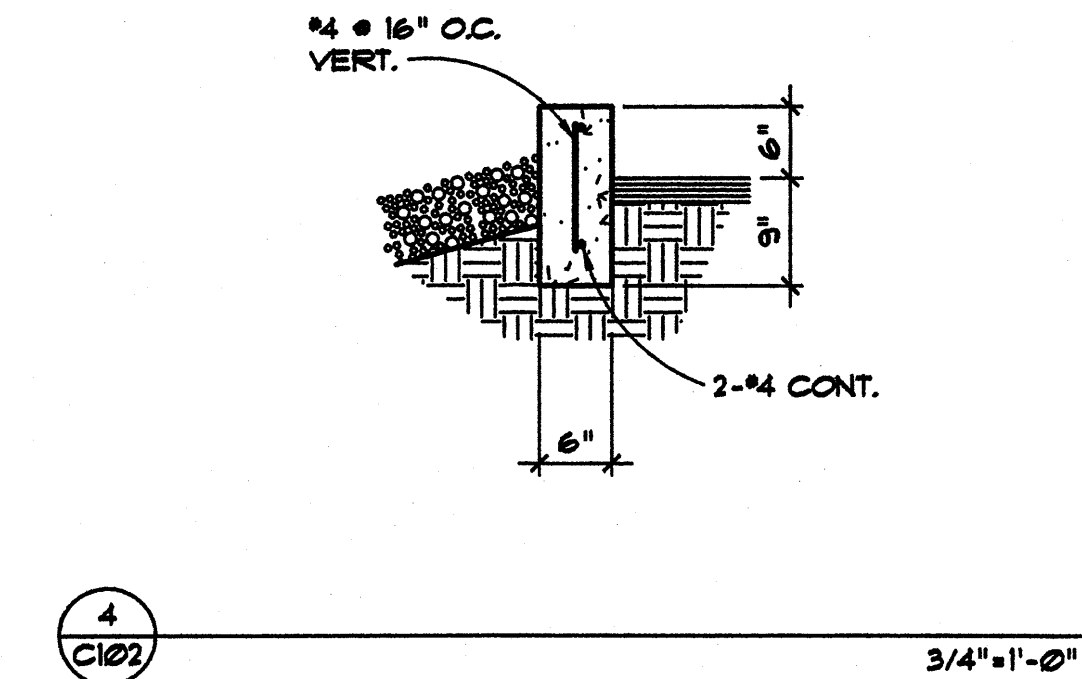
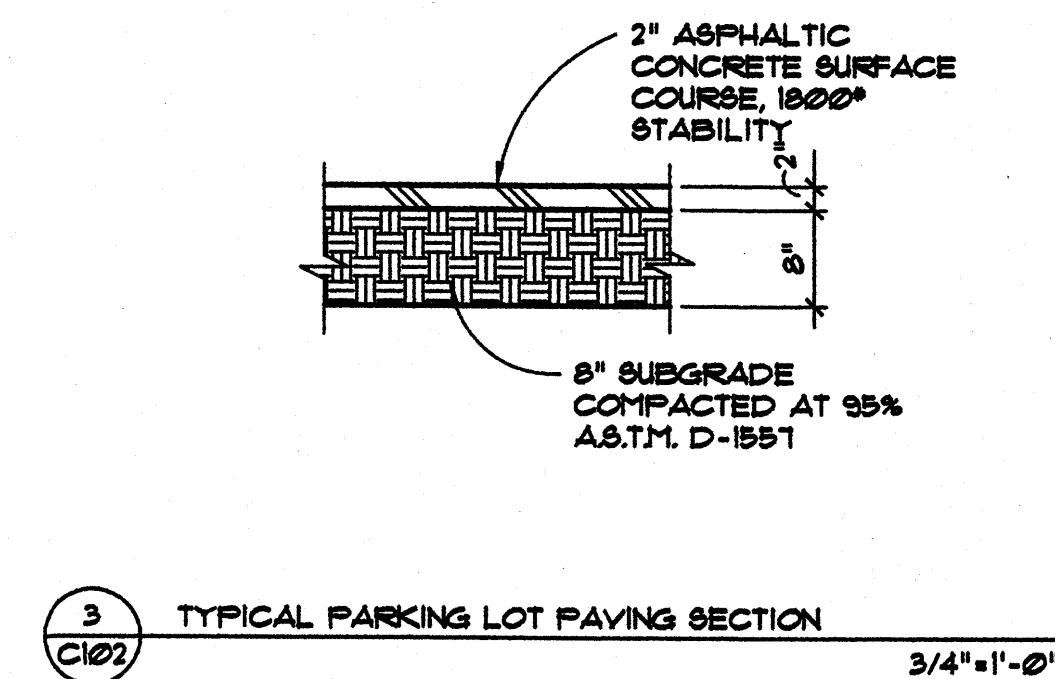
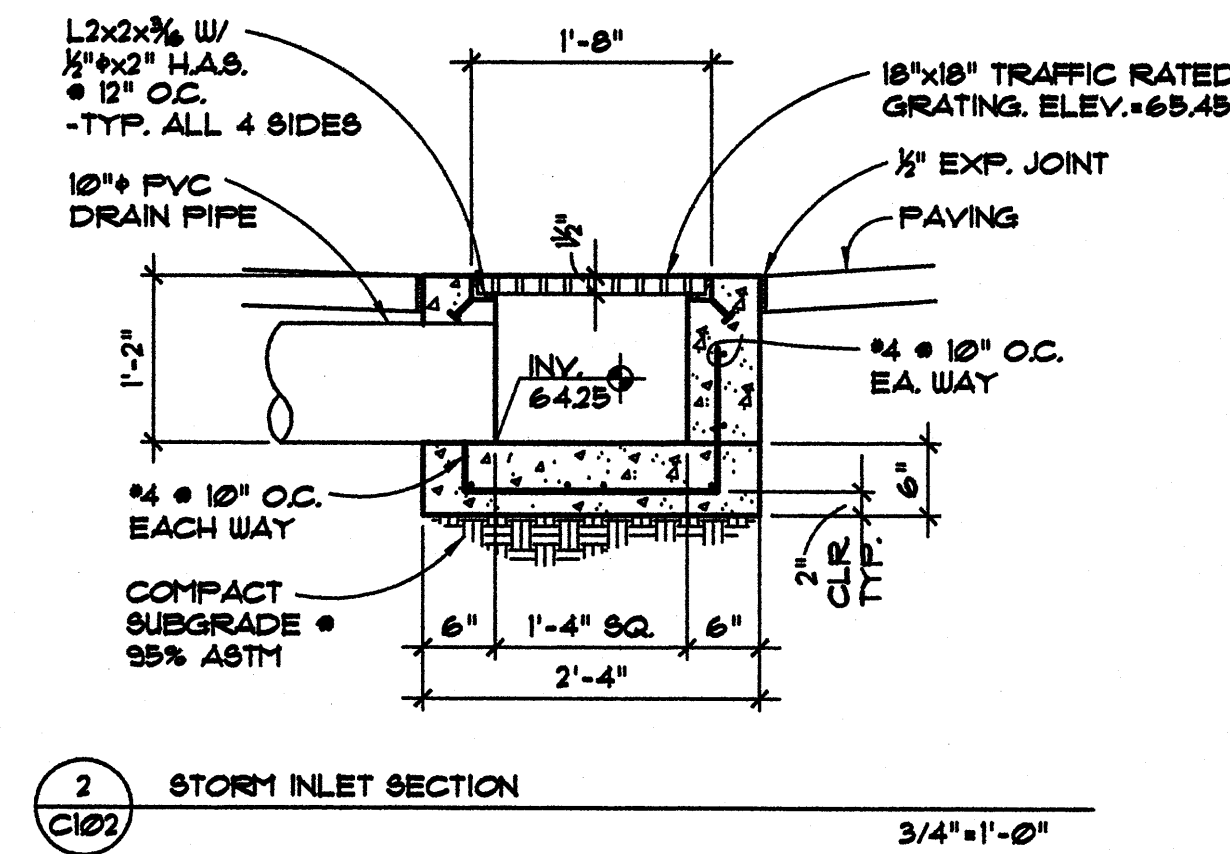
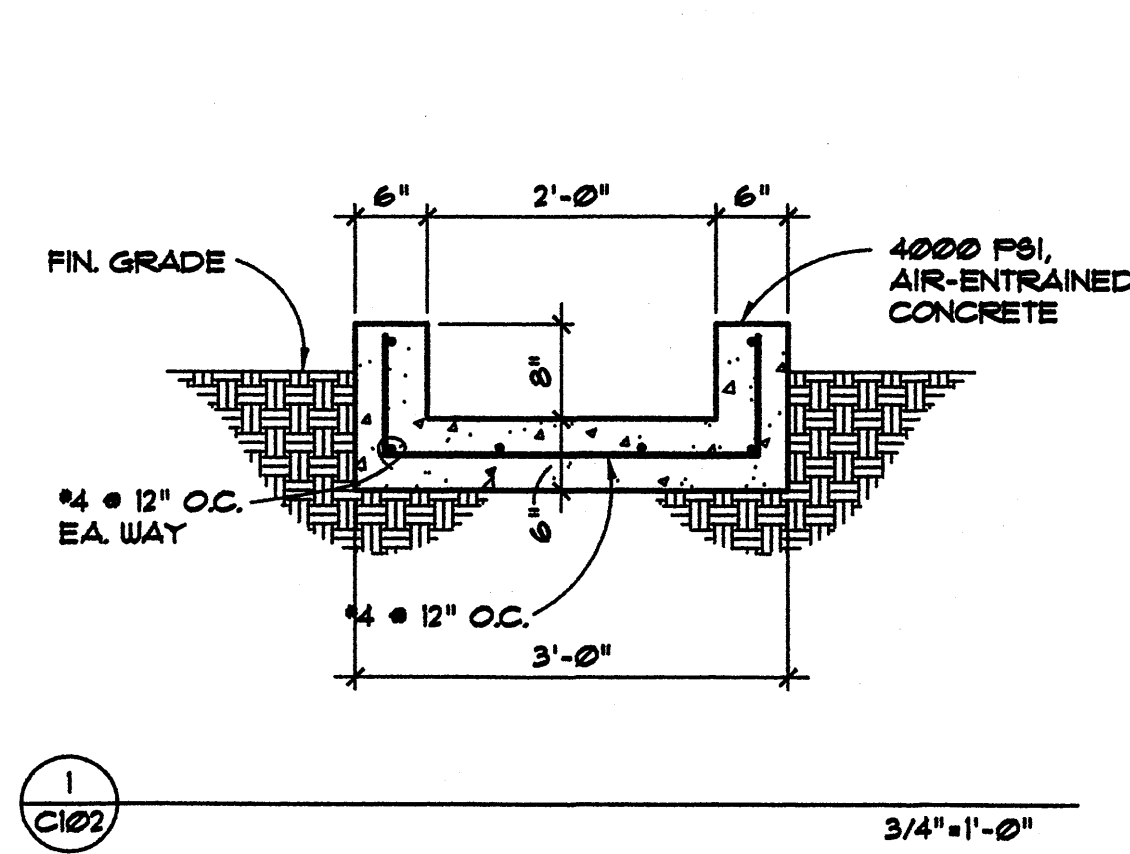
APPROVALS	NAME	DATE
HYDROLOGY		
PERMIT NO.	MAP NO.	
	C-18-Z	

Walla Structural Engineering
ENGINEERING LTD. Civil Engineering
6100 Indian School Road NE • Suite 105
Albuquerque • New Mexico • 87110
881-3008 • Facsimile 881-4025

COMMERCIAL SELF STORAGE GRADING & DRAINAGE PLAN

DESIGN: MJW PROJECT NO.: J12-0106 SHEET
DRAWN: KKG
CHECKED: MJW DATE: APRIL 30, 2007

C101



Walla
ENGINEERING LTD

Structural Engineering
Civil Engineering

6100 Indian School Road NE • Suite 105
Albuquerque • New Mexico • 87110
881-3008 • Facsimile 881-4025

COMMERCIAL SELF STORAGE
GRADING & DRAINAGE DETAILS

DESIGN: MJW PROJECT NO.: J12-0106 SHEET

DRAWN: KKG

CHECKED: MJW DATE: APRIL 30, 2007

C102