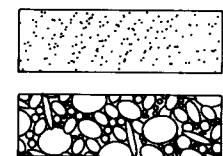


• L E G E N D •

MATERIALS

CONCRETE

RIP-RAP



LINES

SUBDIVISION BOUNDARY

PROPERTY LINE (PLAN)

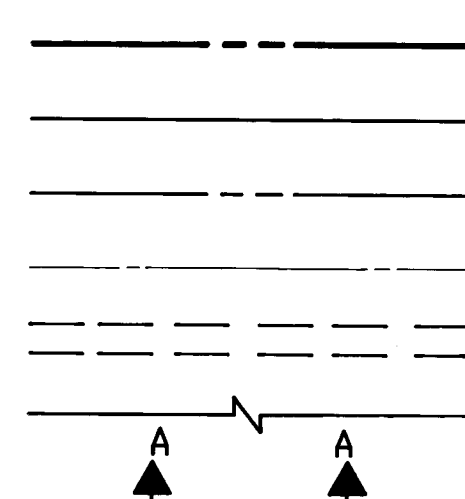
PROPERTY LINE (SECTION)

CENTERLINE

EASEMENT LINE

MATCH LINE

SECTION CUT LINE



EARTHWORK

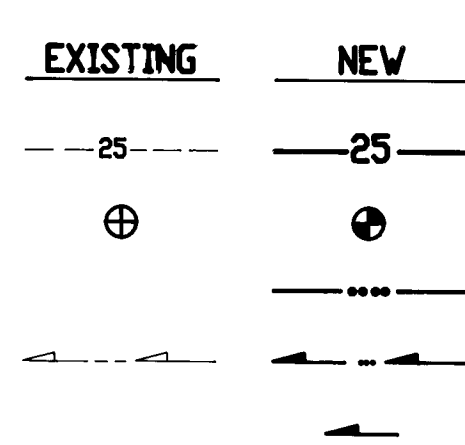
CONTOUR LINE

SPOT ELEVATION

PROJECT / PHASE BOUNDARY

FLOWLINE

DIRECTION OF FLOW



MISCELLANEOUS UTILITIES

GAS LINE

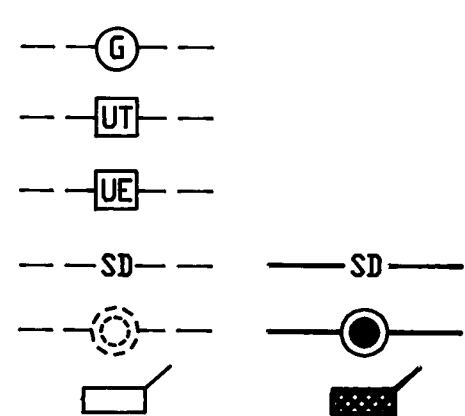
UNDERGROUND TELEPHONE

UNDERGROUND ELECTRICAL

STORM DRAIN

STORM DRAIN MANHOLE

STORM DRAIN INLET



SANITARY SEWER

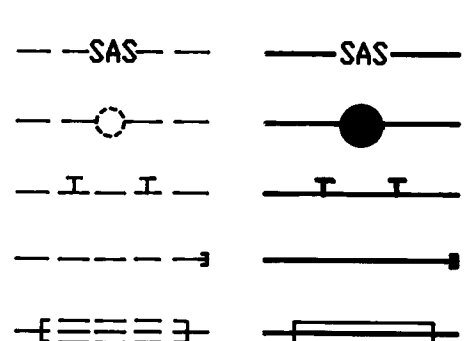
SANITARY SEWER LINE

SANITARY SEWER MANHOLE

SAS SERVICE CONNECTIONS

SAS CAP OR PLUG

ENCASEMENT



WATER

WATER LINE

WATER SERVICE CONNECTIONS

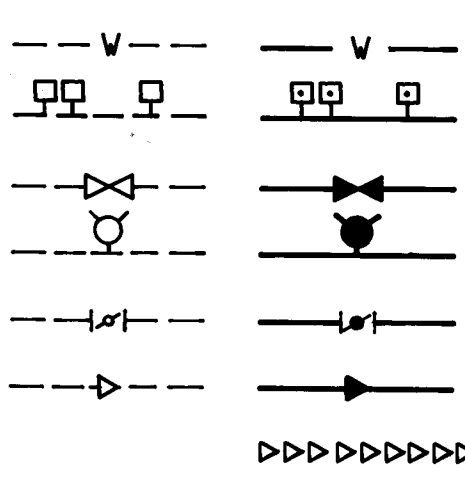
GATE VALVE

FIRE HYDRANT

BUTTERFLY VALVE

REDUCER

WATER PRESSURE ZONE BOUNDARY



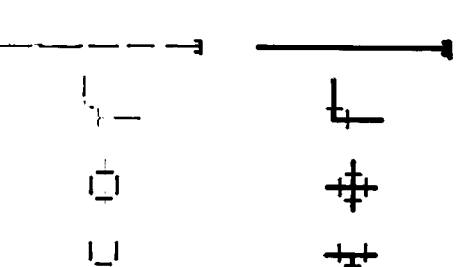
WATER FITTINGS

CAPS AND PLUGS

ELBOW

CROSS

TEE



MISCELLANEOUS

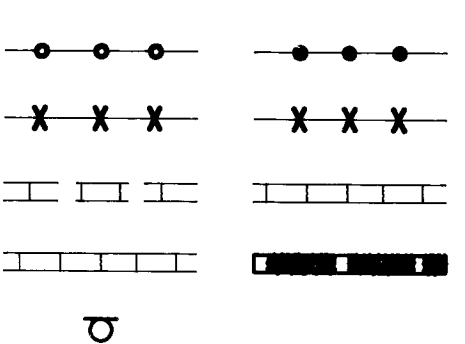
CHAINLINK FENCE

FIELD FENCE

COMMON YARD WALL

RETAINING WALL

POWER OR TELEPHONE POLE

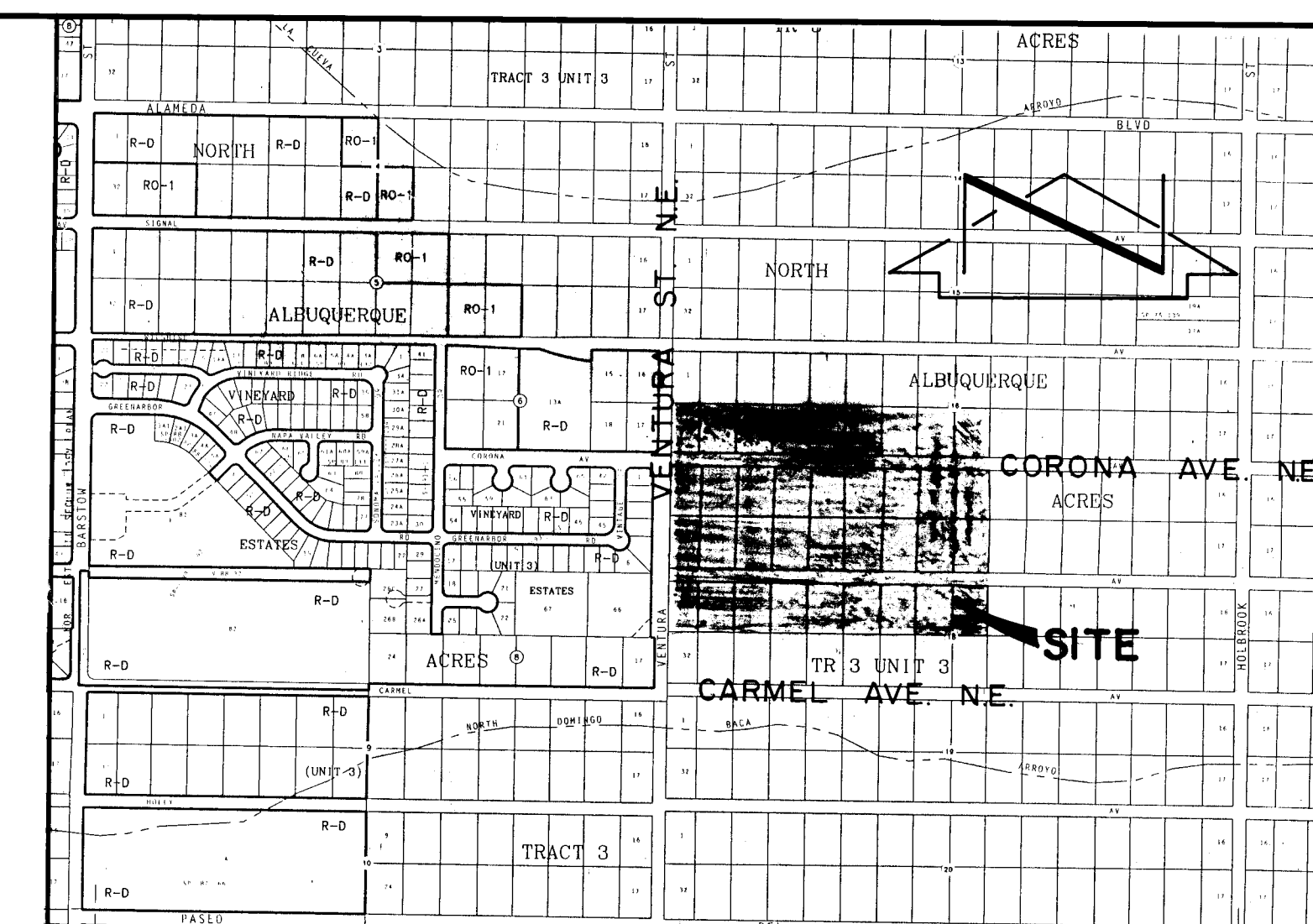


CONSTRUCTION PLANS
for
VINEYARD ESTATES UNIT IV
ALBUQUERQUE, NEW MEXICO
AUGUST, 1994

RECORD DRAWING

INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	SUBDIVISION PLAT
3	SUBDIVISION PLAT
4	GRADING AND DRAINAGE PLAN (SOUTH)
5	GRADING AND DRAINAGE PLAN (NORTH)
6	GRADING AND DRAINAGE PLAN (INTERIM LOT GRADING)
7	PAVING SECTIONS AND DETAILS
8	TRAFFIC CONTROL AND SIGNING EXAMPLES
9	TRAFFIC CONTROL AND SIGNING EXAMPLES
PAVING AND STORM DRAINAGE IMPROVEMENTS	
10	PAVING AND STORM DRAINAGE SITE PLAN
11	VENTURA STREET STA. 6+63.4 TO STA. 15+00.00 ANAHEIM AVENUE STA. 10+00.00 TO STA. 11+98.00
12	VENTURA STREET STA. 15+00.00 TO STA. 20+55.70 CORONA AVENUE STA. 10+00.00 TO STA. 11+98.00
13	ESTATES DRIVE STA. 9+50.00 TO STA. 17+23.37
14	CORONA AVENUE STA. 17+23.37 TO STA. 23+50.00 VINTNER DRIVE STA. 10+00.00 TO STA. 12+46.79
15	PETALUMA DRIVE STA. 23+50.00 TO STA. 30+71.15
16	BERRYESSA ROAD STA. 10+00.00 TO STA. 19+79.87
17	SANTA LUCIA AVENUE/POPE VALLEY DRIVE STA. 10+00.00 TO STA. 19+49.28
18	VINA DEL SOL DRIVE STA. 10+00.00 TO STA. 19+54.46
19	CHATEAU DRIVE STA. 10+00.00 TO STA. 14+80.00 CALISTOGA AVENUE STA. 19+54.46 TO STA. 23+39.77
20	20' DRAINAGE AND SANITARY SEWER RIGHT-OF-WAY STA. 10+00.00 TO STA. 11+59.72
21	VINTNER COURT STA. 10+00.00 TO STA. 15+63.90 VINTNER COURT DRAINAGE CHANNEL STA. 10+00.00 TO STA. 11+45.78
WATER AND SANITARY SEWER IMPROVEMENTS	
22	WATER AND SANITARY SEWER SITE PLAN WATER VALVE SHUTOFF PLAN VINTNER COURT STA. 9+90.00 TO STA. 14+78.91 CORONA SAS STUB STA. 10+00.00 TO STA. 11+80.00 20' WATERLINE STA. 19+05.47 TO STA. 22+43.00
23	CORONA AVENUE STA. 9+90.00 TO STA. 11+88.00 ANAHEIM AVENUE STA. 10+10.00 TO STA. 11+78.01
24	ESTATES DRIVE STA. 10+16.00 TO STA. 17+23.37
25	CORONA AVENUE STA. 17+23.37 TO STA. 23+50.00 VINTNER DRIVE STA. 10+00.00 TO STA. 12+46.79
26	PETALUMA DRIVE STA. 23+50.00 TO STA. 30+71.15
27	BERRYESSA ROAD STA. 10+00.00 TO STA. 19+79.87
28	SANTA LUCIA AVENUE/POPE VALLEY DRIVE STA. 9+90.00 TO STA. 19+49.28
29	VINA DEL SOL DRIVE STA. 10+00.00 TO STA. 19+54.46
30	CHATEAU DRIVE STA. 10+00.00 TO STA. 14+80.00 CALISTOGA AVENUE STA. 19+54.46 TO STA. 23+39.77
RETAINING WALLS	
32	WALLS 'A', 'B' AND 'C' PLAN AND PROFILE
33	WALL 'E' PLAN AND PROFILE WALL 'F' DETAIL
34	RETAINING WALL NOTES AND SECTIONS

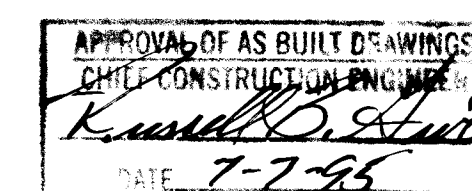
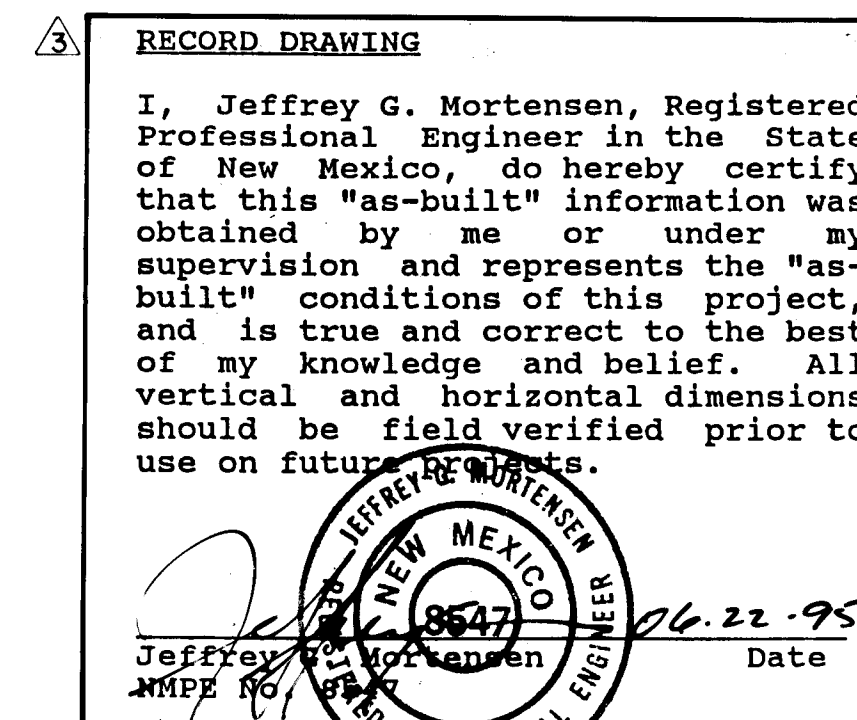


VICINITY MAP
SCALE: 1" = 750'

C-20

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986. (UPDATE NO. 4)
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEEPENED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 33 39 11 96 01 95

930847

24, 25, 27-31	20	3-29-95	John Curtin	1-28-95						
1-34										
REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE	

APPROVAL OF REVISIONS

		APPROVED FOR CONSTRUCTION
		PROJECT NO. 3391.96 SHEET 1 OF 34

STREET FLOW ANALYSIS							
ANALYSIS POINT	Q ₁₀₀ (CFS)	SLOPE (FT/FT)	DEPTH (FT)	VELOCITY (FPS)	F _R	FLOW ACCEPTED BY INLETS (CFS)	RESIDUAL FLOW (CFS)
AP-2	27.7	0.017	0.46	4.0	1.04	N/A	27.7
AP-3	37.7	0.025	0.47	5.0	1.29	32	5.7
AP-4	22.6	0.005	0.52	2.6	0.64	N/A	22.6
AP-5	29.4	0.005	0.57	2.9	0.67	26	3.4
AP-6	17.6	0.029	0.38	4.2	1.20	N/A	17.6
AP-7	33.4	0.029	0.45	5.0	1.31	N/A	33.4
AP-8	45.5	0.028	0.49	5.7	1.43	N/A	45.5
AP-9	62.1	0.009	0.68	4.6	0.98	44	18.1
AP-10	4.3	0.018	0.24	2.8	1.00	2	2.3

Depths and Velocities obtained from D.P.M. Plate 22.3 D-1
Inlet Capacities obtained from D.P.M. Plates 22.3 D-5, 6
Sequent Depths calculated assuming Rectangular Channel

PIPE FLOW ANALYSIS				
ANALYSIS POINT	Q ₁₀₀ (CFS)	PIPE SIZE OUT (IN.)	SLOPE OUT (FT/FT)	MAXIMUM CAPACITY (CFS)
AP-15	54.4	30	0.045	93.8
AP-16	54.4	30	0.022	65.4
AP-17	92.1	36	0.025	113.4
AP-18	92.1	36	0.025	101.5
AP-19	21.0	36	0.010	71.8
AP-20	113.1	48	0.013	176.2
AP-21	26.0	24	0.064	61.3
AP-22	117.3	42	0.0153	133.9
AP-23	196.0	48	0.019	213.0

Maximum Capacity Calculated from Manning's Equation using n = 0.013

RECORD DRAWING

The following items concerning the Vineyard Estates Unit IV Drainage Plan are contained herein:
1. Vicinity Map 2. Grading Plan 3. Sections and Details 4. Calculations

As shown by the Vicinity Map, the site is located on the east side of Ventura Street, between Alameda Boulevard N.E. on the north and Carmel Avenue N.E. on the south. The area is zoned R5 as set forth in the Vineyard Sector Plan. The proposed development is single family residential.

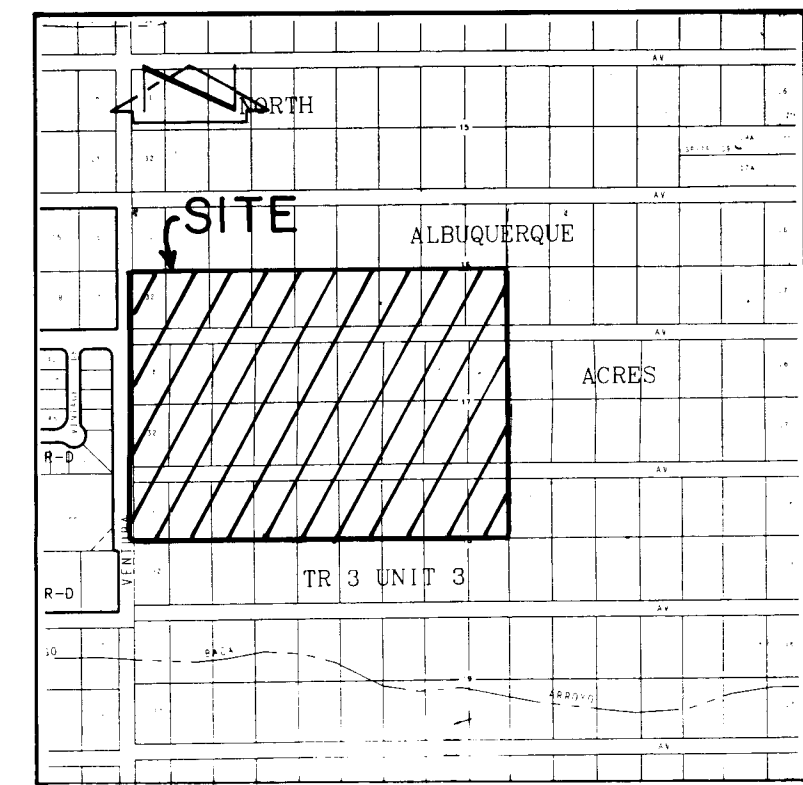
As indicated by Panel 10 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps (FIRM) for the City of Albuquerque, New Mexico, dated October 14, 1983, the site lies in close proximity to the designated Flood Hazard Zone associated with the North Arroyo de Domingo Baca (NDB). Tract A, a proposed Public Drainage Easement, lies partially within a Flood Hazard Zone associated with a tributary to the NDB. The erosion setback associated with the North Domingo Baca Arroyo, based upon a peak flow of 471 cfs (from Ventura Street Drainage Study prepared by Jeff Mortensen & Associates, Bernalillo County Public Works Department, Case No. PWD 93-50) is (471 cfs)(6 ft)/(100 cfs) = 28.3 feet. The proposed subdivision is approximately 190' from the floodway limits at their closest point, hence the site lies outside the erosion setback limits. The floodway limits are delineated on the Grading Plan. Offsite flows impact the site. A detailed analysis of these flows can be found in the Vineyard Estates Unit IV Subdivision Master Drainage Plan prepared by Jeff Mortensen & Associates (Hydrology File C-20/D3C).

The Grading Plan shows: 1) existing and proposed grades indicated by spot elevations and contours at 1'0" intervals; 2) proposed pads; 3) limits of proposed storm drainage improvements; 4) limits of proposed storm drainage improvements; 5) offsite and onsite ponding areas; 6) proposed retaining walls and private drainage improvements; and 7) continuity between existing and proposed grades. The grading has been accomplished in a manner which is consistent with the Vineyard Estates Unit IV Master Drainage Plan (C20/D3C). The Master Drainage Plan identifies the developed drainage patterns by which the subdivision is to be graded. The detailed grading plan which follows conforms with the requirements of the Master Drainage Plan. Certain drainage facilities are only identified in this Plan. These improvements will be constructed by City Work Order and will be included in the construction plans for the construction of public infrastructure. The magnitude of offsite flows, as calculated by the Master Drainage Plan, have been superimposed onto this plan for reference. The offsite flows generated upstream from Ventura Street will be intercepted by that roadway and diverted south via new public storm drain to the on-site detention pond.

The maintenance of all ponds will be the responsibility of the Developer. The Developer will acquire the lands underlying all ponds and/or obtain permission via agreement to perform all offsite grading. This will be demonstrated prior to preliminary plat approval. All of the proposed and future improvements have been designed to conform with the North and South Domingo Baca and Paseo del Norte Corridor Drainage Management Plan prepared by R.T.L. as presented to and accepted by AMAFCA. The Developed Conditions Analysis presented in the Master Drainage Plan demonstrates that the peak rate of discharge from this site will be lessened for all rainfall events due to mitigation efforts. This includes a reduction of the peak discharge rates of all offsite flows which enter the site.

Specific notes related to the grading of the residential lots are included on Sheet 3 of this submittal. In particular, all runoff generated by these lots shall be directed to the public right-of-way, or to private drainage facilities to be constructed along the rear property lines of certain lots. Those lots are clearly depicted on the Grading Plan. Retaining walls are also required at various locations throughout the subdivision. The limits of those walls are graphically shown on the Grading Plan. Plan and profile designs and typical wall sections will be presented in conjunction with the Work Order Plans following preliminary plat approval.

The Calculations which appear hereon analyze the developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, the runoff to be generated onsite is equal to peak discharges identified in the Master Drainage Plan.



VICINITY MAP
SCALE: 1" = 750'

PROJECT BENCHMARK

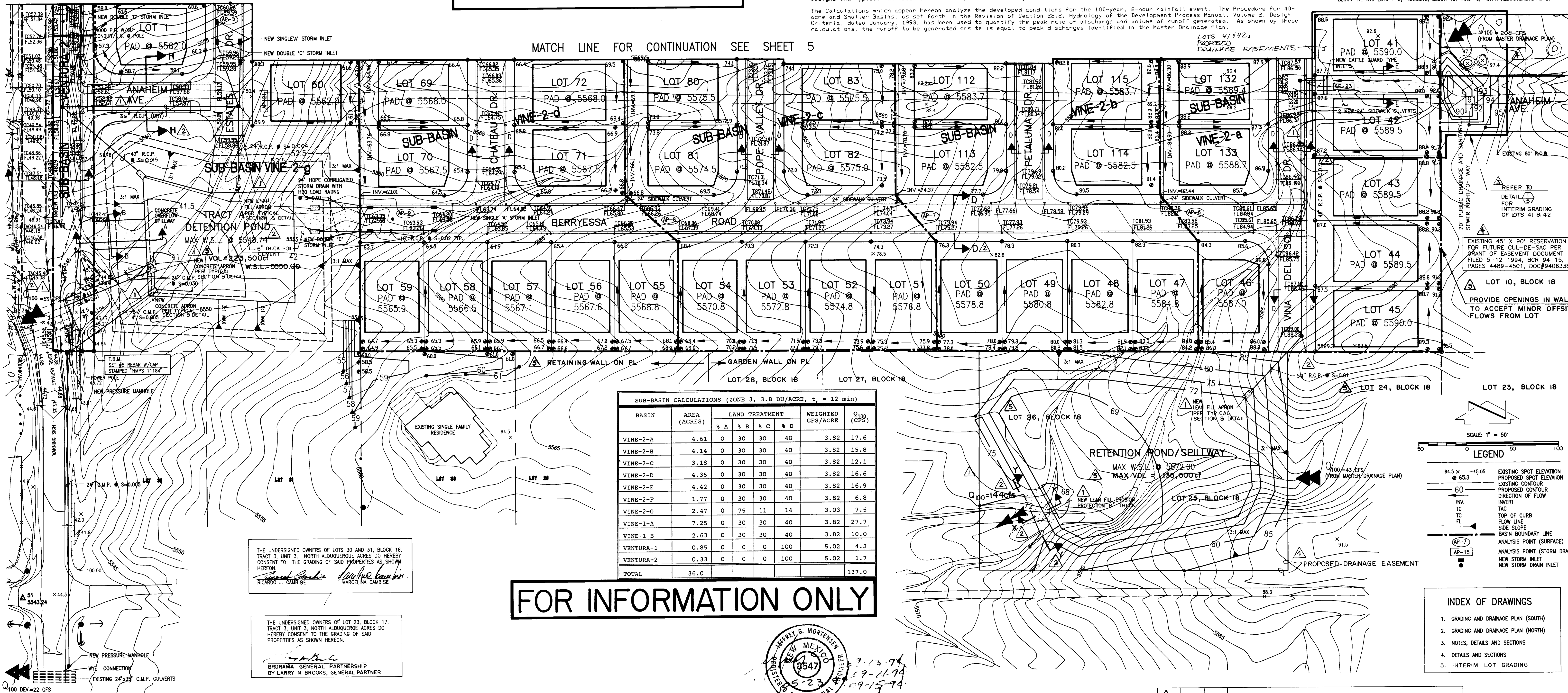
A STANDARD A.C.S. BRASS TABLET STAMPED "C21A-1978", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND.
ELEVATION = 5534.85 FEET (M.S.L.D.)

T.B.M.

THE TOP OF A REBAR AT THE SOUTHWEST CORNER OF TRACT A AS SHOWN ON THE DRAWING.
ELEVATION = 5544.84 FEET (M.S.L.D.)

LEGAL DESCRIPTION

LOTS 24-32, INCLUSIVE, BLOCK 16, LOTS 1-9, INCLUSIVE, AND LOTS 24-32, INCLUSIVE, BLOCK 17, AND LOTS 1-9, INCLUSIVE, BLOCK 18, TRACT 3, NORTH ALBUQUERQUE ACRES.



FOR INFORMATION ONLY



JEFF MORTENSEN & ASSOCIATES, INC.
600 B WILLOW PARK BLVD. N.E.
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS (505) 345-4250

APPROVED FOR ROUGH GRADING

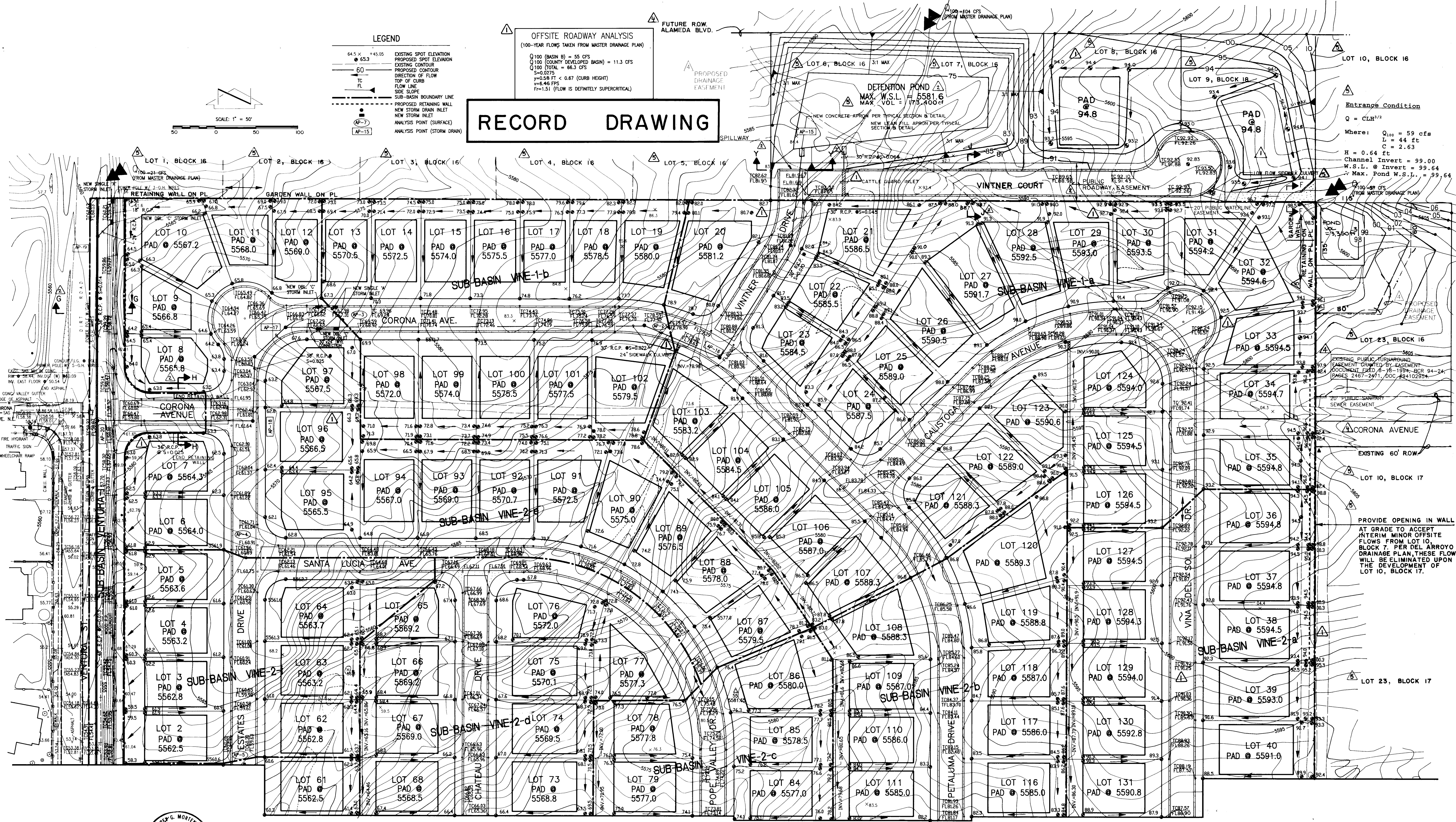
John P. Curtis 6-9-94
HYDROLOGY DATE

GRADING AND DRAINAGE PLAN
VINEYARD ESTATES UNIT IV

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

DESIGNED BY: G.M.
DRAWN BY: ACAD
APPROVED BY: J.G.M.

NO.	DATE	BY	REVISIONS	JOB NO.
1	9/94	GM	LABEL ADJOINING LOTS, PERIMETER WALLS, POND VOLUMES	930847
2	7/94	GM	REVISE APRONS, EROSION PROTECTION. ADD. Q ₁₀₀	DATE 05-1994
3	8/94	GM	SHOW ROAD TAPER, ADD CURB ELEVATION. MODIFY PIPE SIZES AND SLOPES.	SHEET 4 OF 34
4	9/94	JM	MODIFY PIPE SIZES AND SLOPES, ADD SECTION CUTS	
5	9/94	JM	CHANGE Q ₁₀₀ , CHANGE W.S.L.	
6	9/94	JM	REFERENCE DETAIL	
7	9/94	JM	ADD. EASEMENTS	



RECORD DRAWING

LEGEND

- 64.5 x 45.05 EXISTING SPOT ELEVATION
- 60 EXISTING CONTOUR
- TC PROPOSED CONTOUR
- FL FLOW LINE
- AP-7 SIDE SLOPE
- AP-15 SUB-BASIN BOUNDARY LINE
- PROPOSED RETAINING WALL
- NEW STORM DRAIN INLET
- NEW STORM DRAIN
- ANALYSIS POINT (SURFACE)
- ANALYSIS POINT (STORM DRAIN)

OFFSITE ROADWAY ANALYSIS
(100-YEAR FLOWS TAKEN FROM MASTER DRAINAGE PLAN)

Q100 (BASIN B) = 55 CFS
Q100 (COUNTY DEVELOPED BASIN) = 11.3 CFS
Q100 (TOTAL) = 66.3 CFS
S=0.0275
y=4.46 FFS
Fr=1.51 (FLOW IS DEFINITELY SUPERCRITICAL)

FUTURE ROW
ALAMEDA BLVD.

PROPOSED DRAINAGE EASEMENT

Entrance Condition
 $Q = C L H^{1/2}$
Where: $Q_{100} = 59$ cfs
 $L = 44$ ft
 $C = 2.63$
 $H = 0.64$ ft
Channel Invert = 99.00
W.S.L. @ Invert = 99.64
Max. Pond W.S.L. = 99.64

MATCH LINE FOR CONTINUATION SEE SHEET 4

69.73-94
69.21-94
69.15-94
69.73-94



JMA
JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NM 87109
ENGINEERS SURVEYORS (SOS) 345-4250

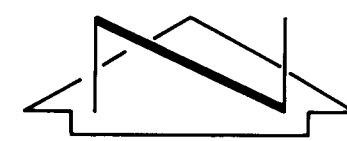
APPROVED FOR ROUGH GRADING
John P. Curtin 6-9-94
DATE

GRADING AND DRAINAGE PLAN
VINEYARD ESTATES UNIT IV

1 2 3 4 5 6 7 8 9 10 11 12
216 727971.76 105195

DESIGNED BY G.M.
DRAWN BY ACAD
APPROVED BY J.G.M.

REVISIONS				JOB NO.
NO.	DATE	BY	DESCRIPTION	
1	7/94	G.M.	MODIFY PIPE SIZES AND SLOPES, REVISE FLOW ARROWS, REVISE CURB/SPOT ELEVATIONS, REVISE INLETS, APRONS, ADD S/W CULVERT, REVISE VINTNER COURT, ADD PADS, CHANGE PAD ELEVATION	930847
2	8/94	G.M.	ADD SECTION CUTS, LABEL SPILLWAY	DATE 05-1994
3	9/94	G.M.	ADD ENTRANCE CALCULATIONS, SHOW ROW, EASEMENTS	SHEET 5 OF 34
4	9/94	G.M.	LABEL ADJOINING LOTS, PERIMETER WALLS, POND VOLUMES, ADD ENTRANCE CONDITION	



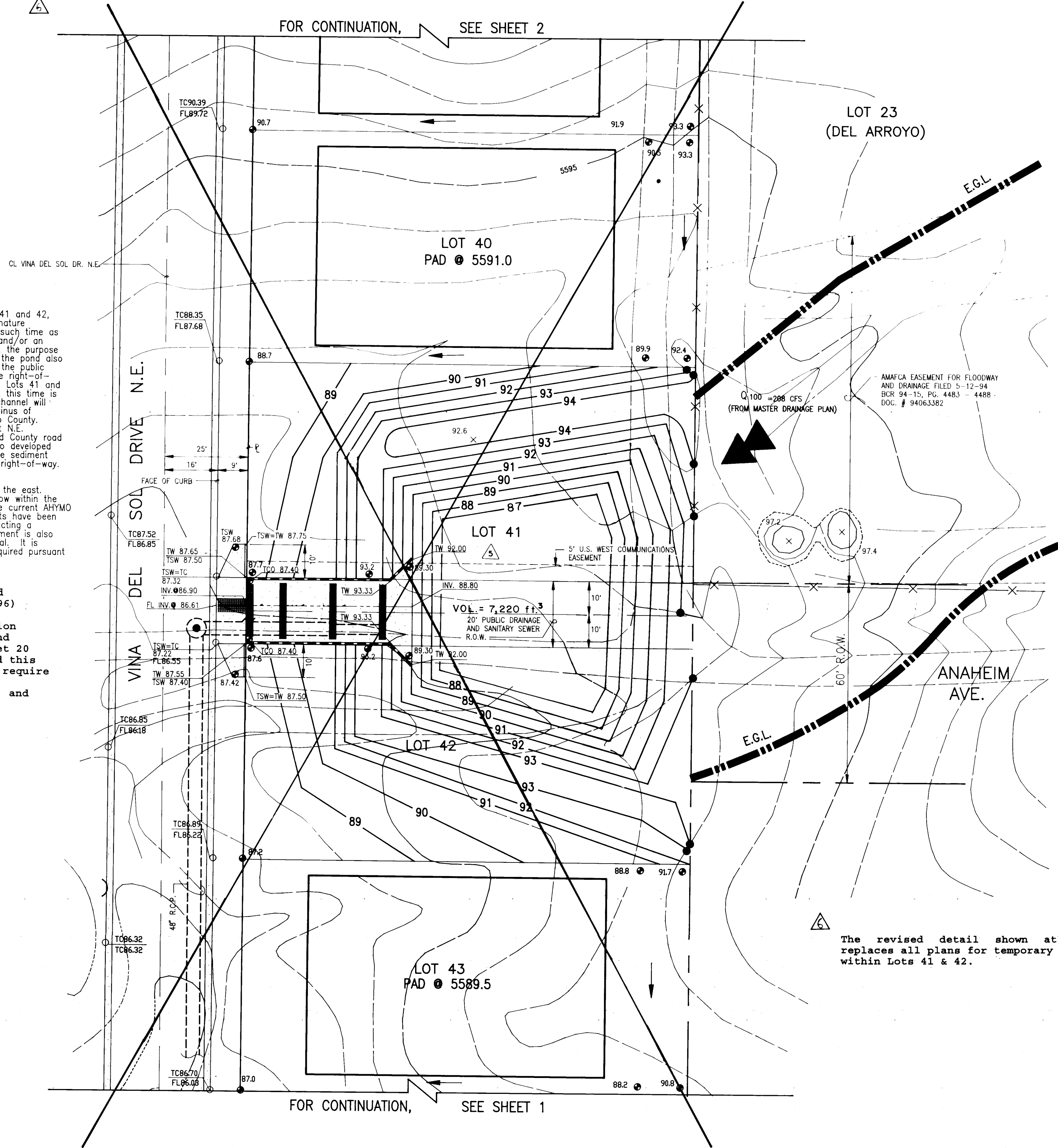
FOR CONTINUATION, SEE SHEET 2

DRAINAGE PLAN

Interim ponding is proposed by this plan within Lots 41 and 42, Vineyard Estates Unit IV. This ponding is interim in nature intended to serve as a sediment removal basin until such time as upstream contributing flows are significantly reduced and/or an alternate pond location is obtained. As stated above, the purpose for this pond is for sediment removal. In doing so, the pond also provides for the overflow of the runoff collected into the public storm drain channel which lies in a 20' public drainage right-of-way. The 20' public drainage right-of-way separates Lots 41 and 42. The portion of the channel to be constructed at this time is consistent with the full design of the channel. The channel will run from Vina Del Sol Drive N.E. to the westerly terminus of Anaheim Street N.E. within the jurisdiction of Bernalillo County. It should be noted that the section of Anaheim Street N.E. immediately east of the subdivision is an unmaintained County road which is currently not being used to provide access to developed properties. It will be the ultimate goal to relocate the sediment pond to the westerly terminus of the Anaheim Street right-of-way. This will be addressed by subsequent submittal.

An AMAFCA drainage easement also abuts the site on the east. Corresponding energy grade lines for the calculated flow within the upstream arroyo system have been prepared using the current AHMO program coupled with a HEC-2 analysis. These results have been previously submitted for review and approval. Constructing a portion of the sediment pond within the AMAFCA easement is also intended and will be addressed by subsequent submittal. It is understood that an agreement with AMAFCA will be required pursuant to this offsite grading.

This Plan shall remain in effect and supersede sheet 20 (Project # 3391.96) for the extent of Public Drainage Channel Construction. Upon relocation of the sediment pond from lots 41 and 42, the Channel limits shown on sheet 20 shall again take precedence and void this Plan. Relocation of this Pond will require coordination with and approval from Bernalillo County Public Works Dept. and AMAFCA.



FOR CONTINUATION, SEE SHEET 1

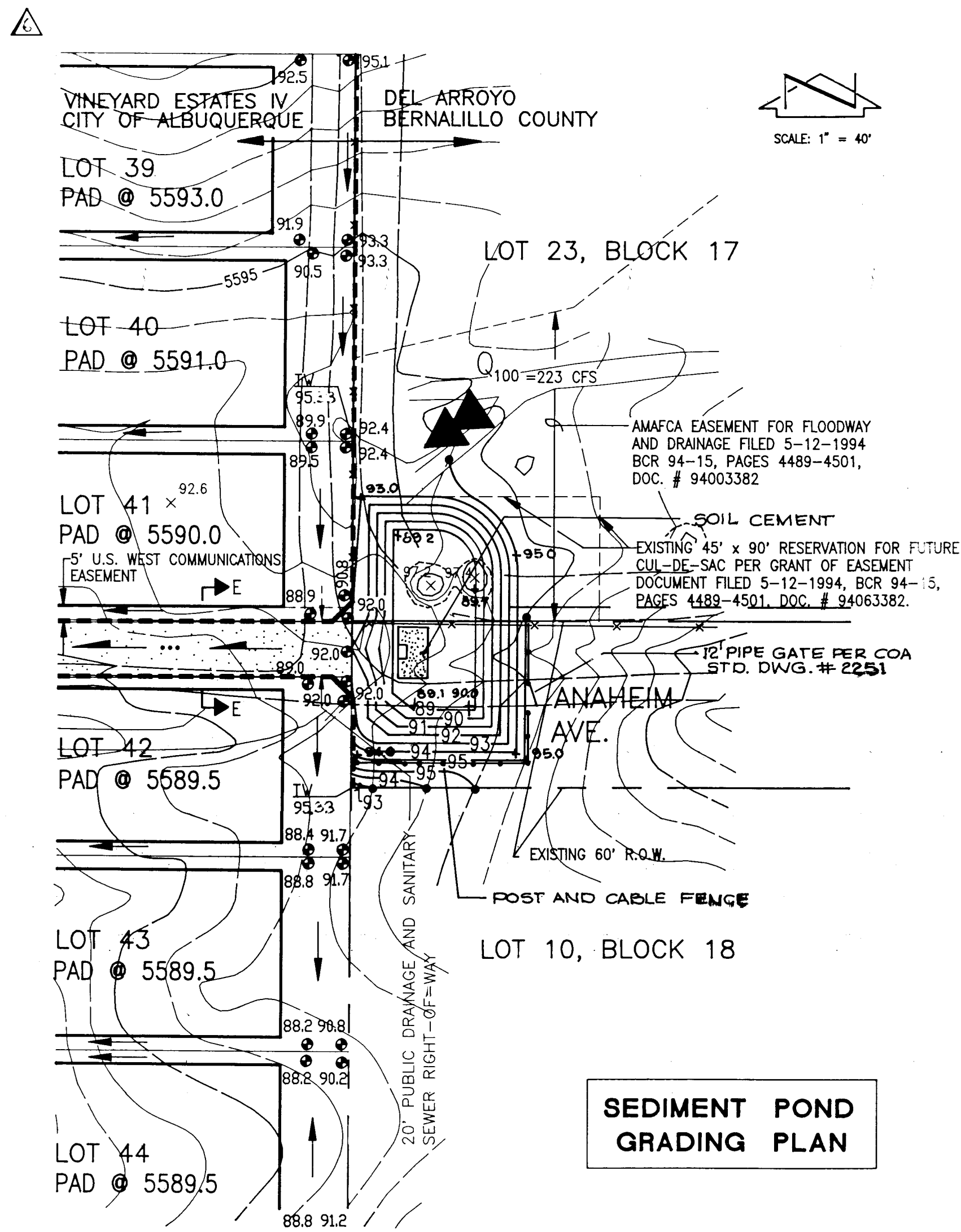
DETAIL 1
SCALE: 1" = 40'

LEGEND

- 64.5 X + 45.05 EXISTING SPOT ELEVATION
- 65.3 PROPOSED SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF FLOW
- TC TOP OF CURB
- FL FLOW LINE
- TSW TOP OF SIDEWALK
- TW TOP OF WALL
- TCO TOP OF CONCRETE
- ENERGY GRADE LINE PER HEC-2 ANALYSIS DATED 09-15-94
- EXISTING FENCE BY DEL ARROYO

ENTRANCE CONDITION TO CHANNEL

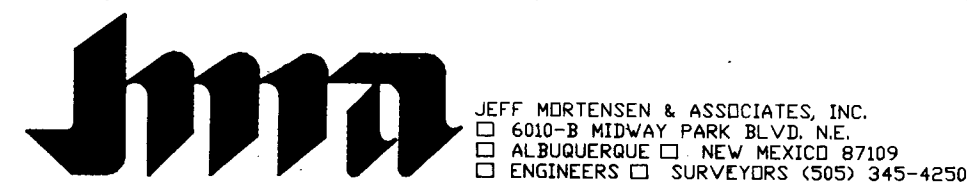
$$Q = CLH^{3/2}$$
$$L = 30.00$$
$$H = 2.0 \text{ FT.}$$
$$C = 2.63$$
$$Q = 223 \text{ CFS} > Q_{100}$$



SEDIMENT POND GRADING PLAN

FOR INFORMATION ONLY

RECORD DRAWING



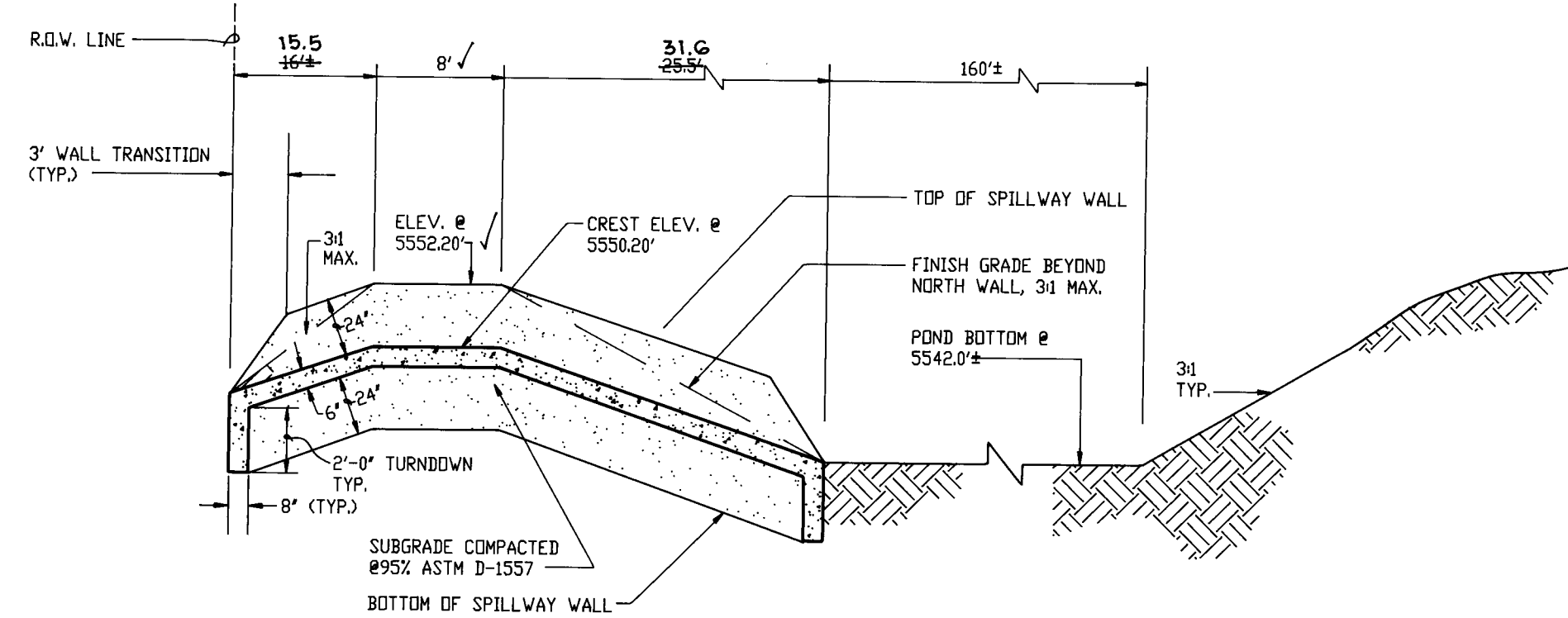
APPROVED FOR ROUGH GRADING

REVISED POND GRADING

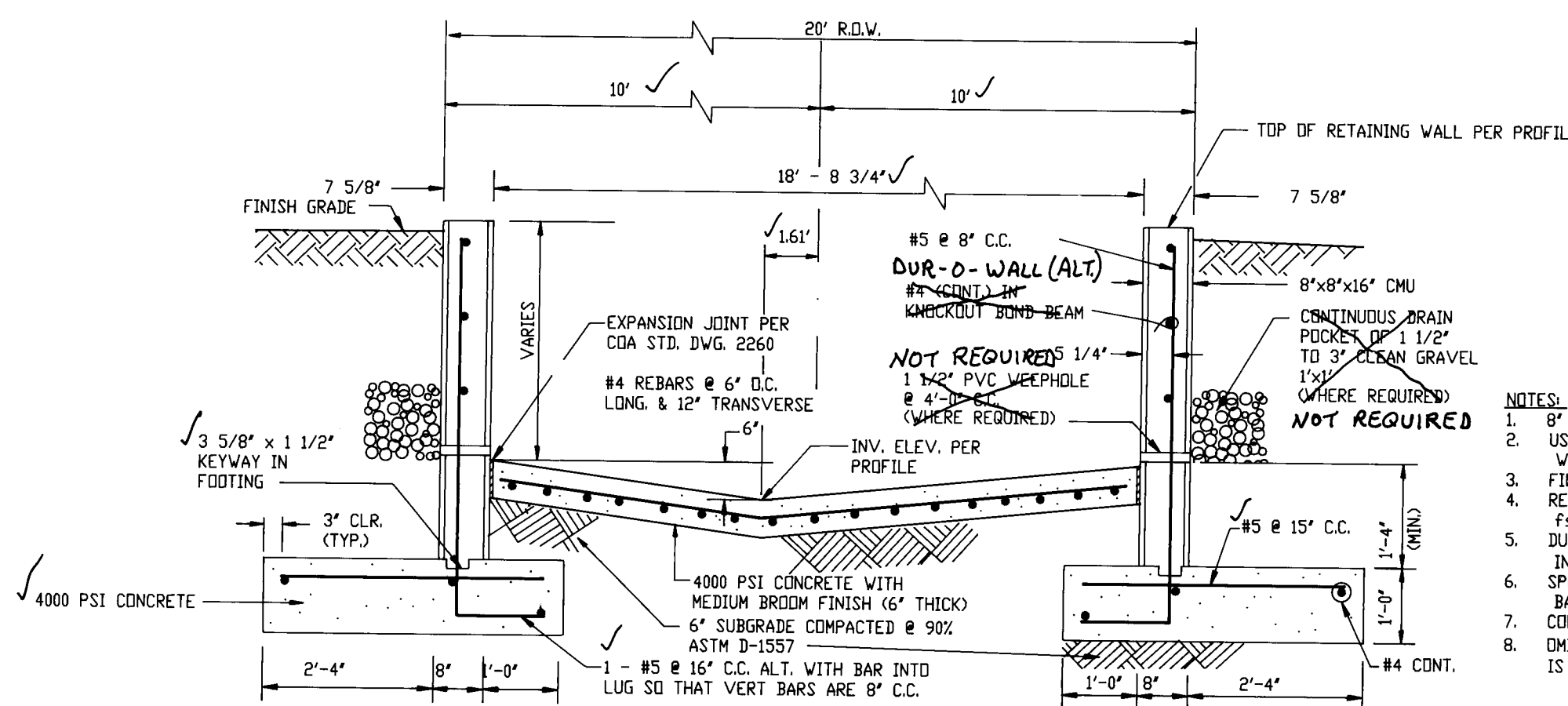
VINEYARD ESTATES UNIT IV

NO.		DATE	BY	REVISIONS	JOB NO.
DESIGNED BY	G.M.	9/94	J.G.M.	ADDED TEXT, REVISE POND GRADES.	930847
DRAWN BY	S.G.H.	11/94	G.M.	VOID INTERIM GRADING, ADD REVISED POND DETAIL	DATE 09-1994
APPROVED BY	J.G.M.				SHEET 5A OF 34



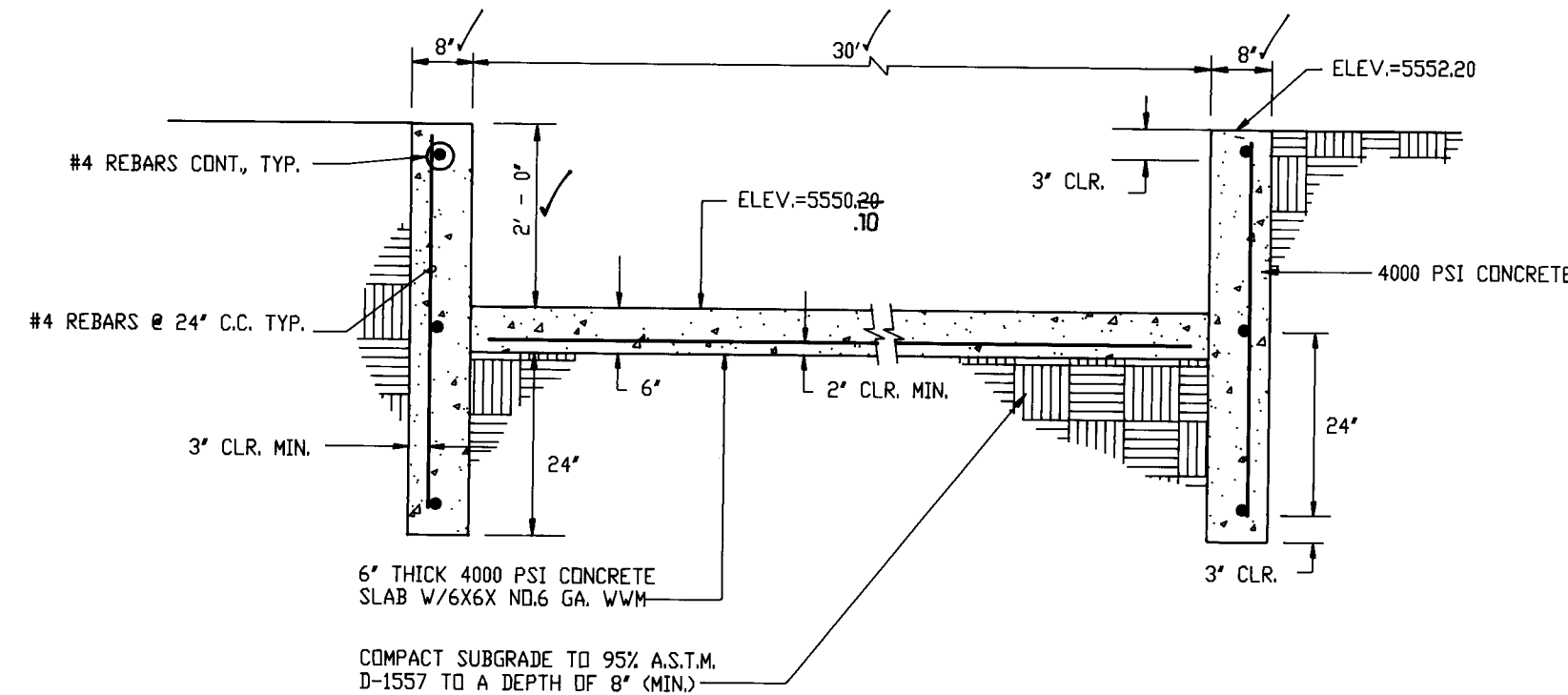


SECTION A-A
N.T.S.

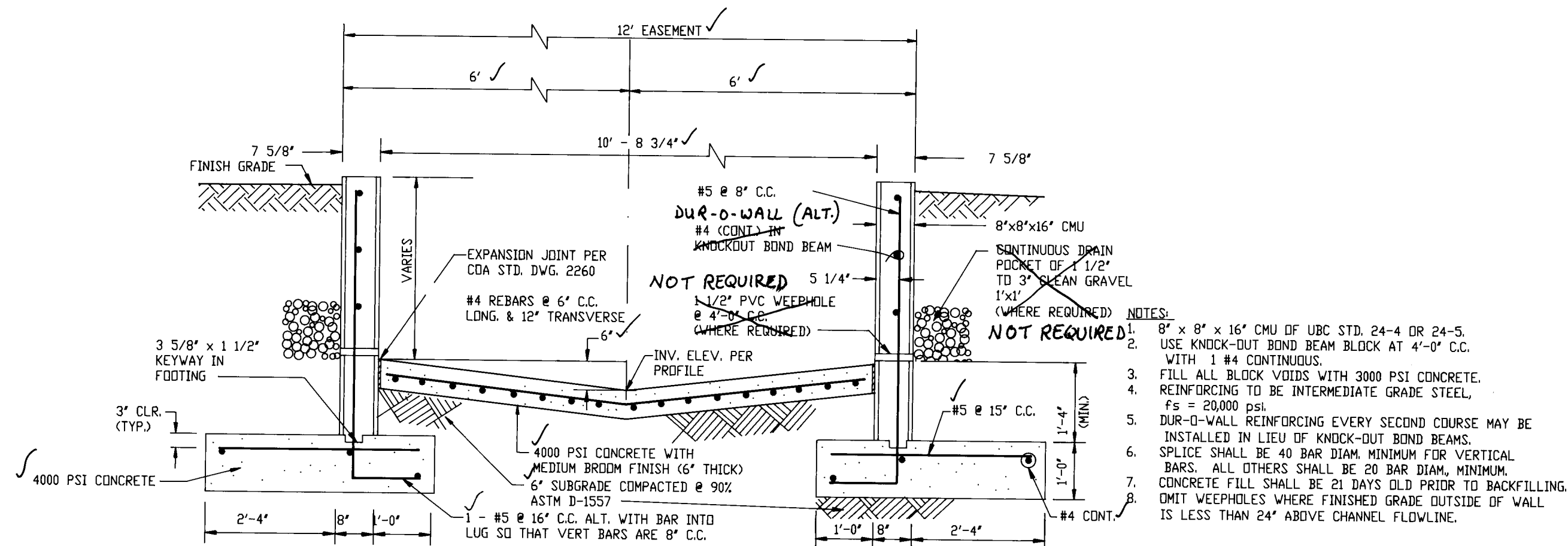


SECTION E-E
SCALE: 1" = 2'-0"

- NOTES:
- 8" x 8" x 16" CMU OF UBC STD. 24-4 OR 24-5.
 - USE KNOCK-OUT BOND BEAM BLOCK AT 4'-0" C.C. WITH 1 #4 CONTINUOUS.
 - FILL ALL BLOCK VOIDS WITH 3000 PSI CONCRETE. REINFORCING TO BE INTERMEDIATE GRADE STEEL.
 - DUR-D-WALL REINFORCING EVERY SECOND COURSE MAY BE INSTALLED IN LIEU OF KNOCK-OUT BOND BEAMS.
 - SPLICE SHALL BE 40 BAR DIAM. MINIMUM FOR VERTICAL BARS. ALL OTHERS SHALL BE 20 BAR DIAM. MINIMUM.
 - CONCRETE FILL SHALL BE 21 DAYS OLD PRIOR TO BACKFILLING.
 - OMIT VEEPHOLES WHERE FINISHED GRADE OUTSIDE OF WALL IS LESS THAN 24" ABOVE CHANNEL FLOWLINE.

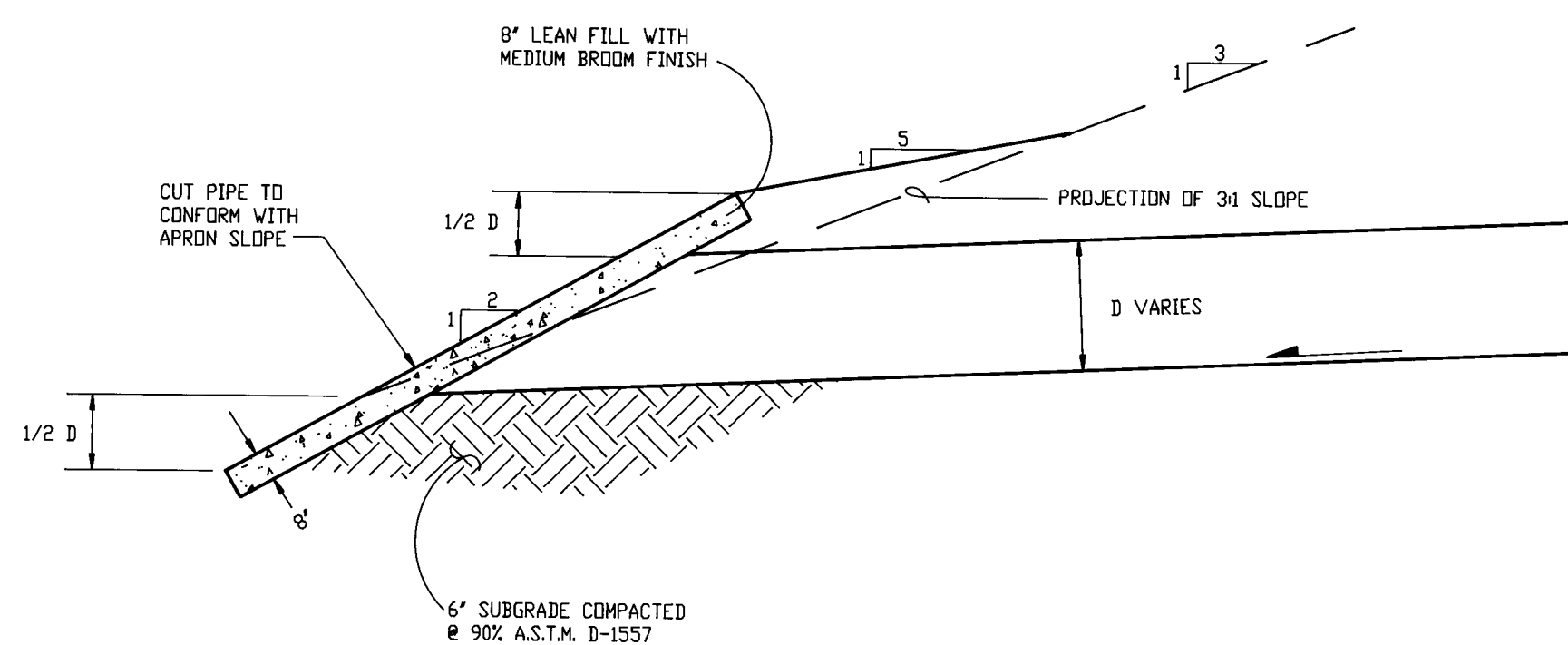


SECTION B-B
SCALE: 1" = 2'-0"

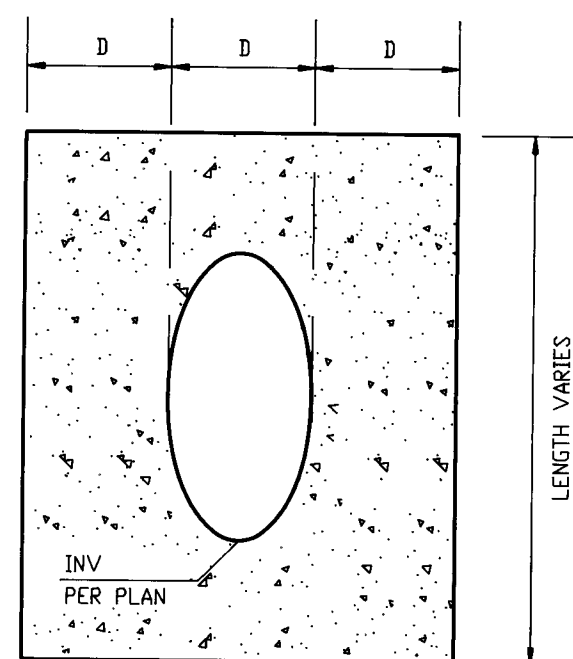


SECTION F-F
SCALE: 1" = 2'-0"

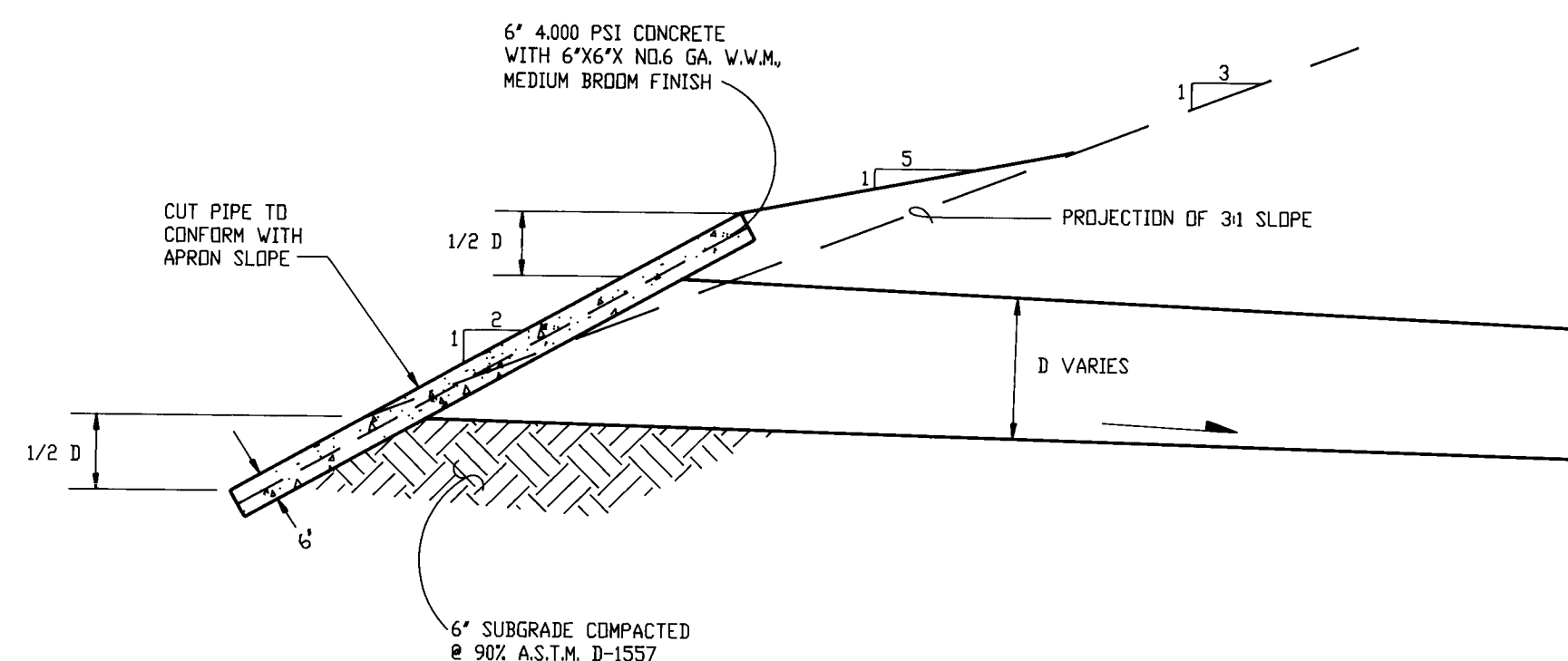
- NOTES:
- 8" x 8" x 16" CMU OF UBC STD. 24-4 OR 24-5.
 - USE KNOCK-OUT BOND BEAM BLOCK AT 4'-0" C.C. WITH 1 #4 CONTINUOUS.
 - FILL ALL BLOCK VOIDS WITH 3000 PSI CONCRETE. REINFORCING TO BE INTERMEDIATE GRADE STEEL.
 - DUR-D-WALL REINFORCING EVERY SECOND COURSE MAY BE INSTALLED IN LIEU OF KNOCK-OUT BOND BEAMS.
 - SPLICE SHALL BE 40 BAR DIAM. MINIMUM FOR VERTICAL BARS. ALL OTHERS SHALL BE 20 BAR DIAM. MINIMUM.
 - CONCRETE FILL SHALL BE 21 DAYS OLD PRIOR TO BACKFILLING.
 - OMIT VEEPHOLES WHERE FINISHED GRADE OUTSIDE OF WALL IS LESS THAN 24" ABOVE CHANNEL FLOWLINE.



TYPICAL LEAN FILL APRON SECTION
N.T.S.



TYPICAL APRON DETAIL
N.T.S.



TYPICAL CONCRETE APRON SECTION
N.T.S.

RECORD DRAWING

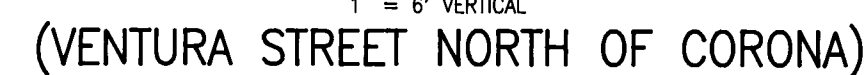
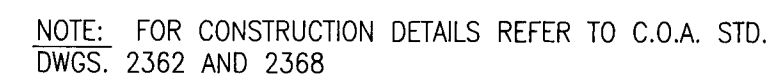
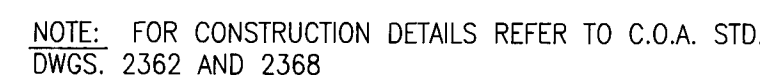
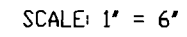
RECORD DRAWING		I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be as shown on the drawings prior to use on future projects.	
DESIGNED BY	DATE	DESIGNED BY	DATE
DRAWN BY	DATE	DRAWN BY	DATE
CHECKED BY	DATE	CHECKED BY	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: VINEYARD ESTATES UNIT IV DRAINAGE SECTIONS AND DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	8/9/94	9-27-94	WATER	N/A	8-27-94
TRANSPORTATION	8-27-94	8-27-94	WASTE WATER	N/A	8-27-94
HYDROLOGY	8-27-94	8-27-94			
PROJECT NO. 3391.96			MAP NO. C-20		
SHEET 6			OF 34		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	SPARKLING CONSTRUCTION	DATE	DATE	NO.	BY
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE

MICRO-FILM INFORMATION		REVISIONS	
RECORDED BY	DATE	REVISIONS	DATE
NO.	DATE	REVISIONS	DATE

ENGINEER'S SEAL		REVISIONS	
DATE	DATE	REVISIONS	DATE
DATE	DATE	REVISIONS	DATE



PROJECT NO.	3391.96	MAP NO.	C-20	SHEET 7 OF 34
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930847

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL, AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS, LINE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:

1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

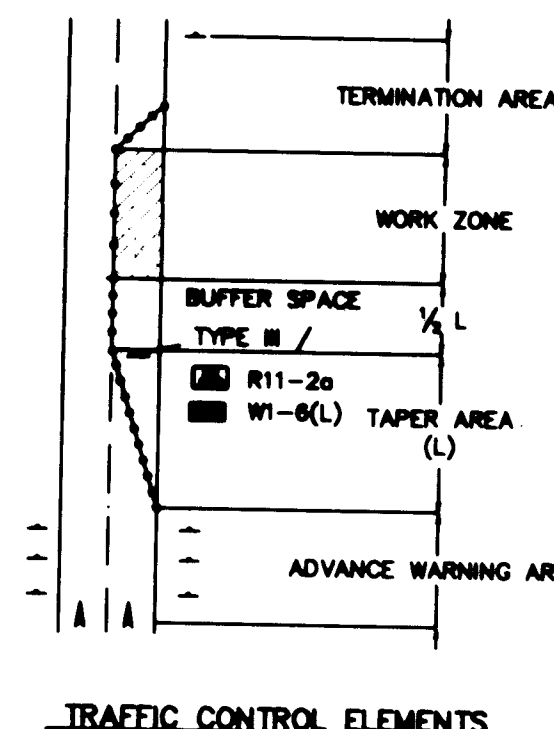
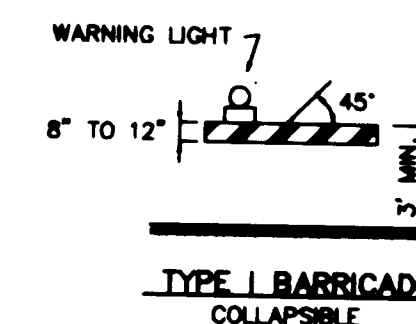
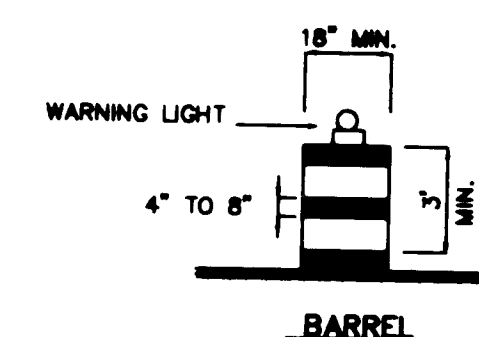
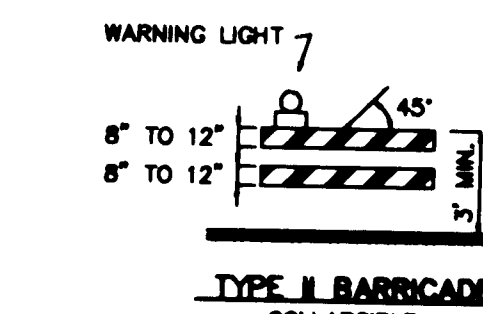
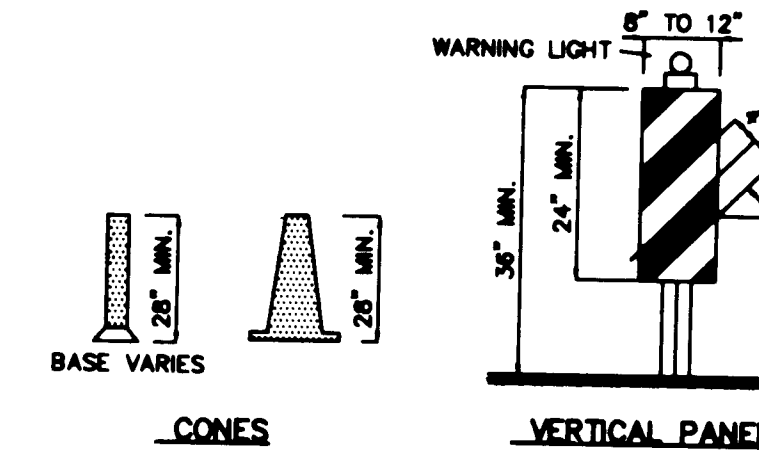
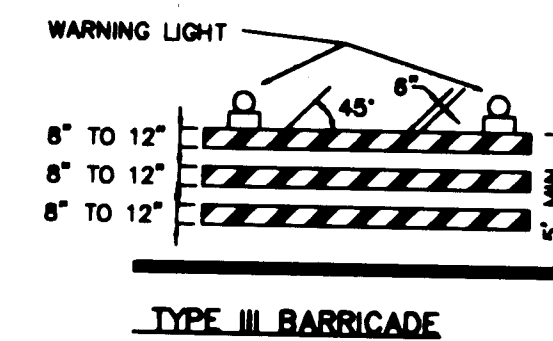
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

RECORD DRAWING

W1-1(R) 30 MPH or LESS	W1-1(L) 30 MPH or LESS	W1-2(R) 35 MPH or GREATER	W1-2(L) 35 MPH or GREATER	W1-3(R) 30 MPH or LESS	W1-3(L) 30 MPH or LESS	W1-4(R) 35 MPH or GREATER	W1-4(L) 35 MPH or GREATER	W1-6(R) 24"	W1-6(L) 24"	W3-1 48"
W4-2(R) 48"	W4-2(L) 48"	W6-3 48"	W6-1 48"	W6-3 48"	W6-3A 48"	W6-7 24"	W13-1 24"	W12-1 36"	W6-9a 48"	W14-2 48"
W20-1 30"	W20-2 36"	W20-3 24"	W20-4 30"	W20-5(R) 30"	W20-5(L) 30"	W20-5(2R) 30"	W20-5(2L) 30"	W20-5(C) 30"	W20-7 30"	W20-7a 30"
R1-1 30"	R1-2 36"	R2-1 24"	R2-5a 24"	R2-5b 24"	R3-1 24"	R3-2 24"	R3-3 24"	R3-7(R) 30"	R3-7(L) 30"	R4-7b 30"
R5-1 30"	R5-1a 36"	R6-1(R) 36"	R6-1(L) 36"	R7-1 12"	R11-2 48"	R11-2a 48"	R11-4 60"	M4-8a 24"	M4-9(R) 30"	M4-9(L) 30"
					ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK PREPARED ON A ORANGE BACKGROUND.					
SPECIAL SIGN 48"	SPECIAL SIGN 48"	SPECIAL SIGN 48"	SPECIAL SIGN 48"	SPECIAL SIGN 48"	ALL ADVANCE WARNING SIGNS SHALL					
SPECIAL SIGN 48"	SPECIAL SIGN 48"	SPECIAL SIGN 48"	SPECIAL SIGN 48"	SPECIAL SIGN 48"	M4-10(R) 48"	M4-10(L) 48"	END CONSTRUCTION 60"			

ALL CONSTRUCTION WARNING SIGNS
SHALL HAVE A BLACK LEGEND ON A
ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



	WORK AREA
•	BARRICADE - TYPE I, TYPE II, OR BARREL
+	BARRICADE - TYPE III
x	VERTICAL PANEL
↓	WARNING SIGN
D	DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
	FLAGMAN POSITION
S	SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
L	TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE BETWEEN SIGNS	MINIMUM DISTANCE FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

<u>TYPE OF TAPER</u>	<u>TAPER LENGTH</u>
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	$\frac{1}{2}$ L MINIMUM
SHOULDER TAPER	$\frac{1}{2}$ L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

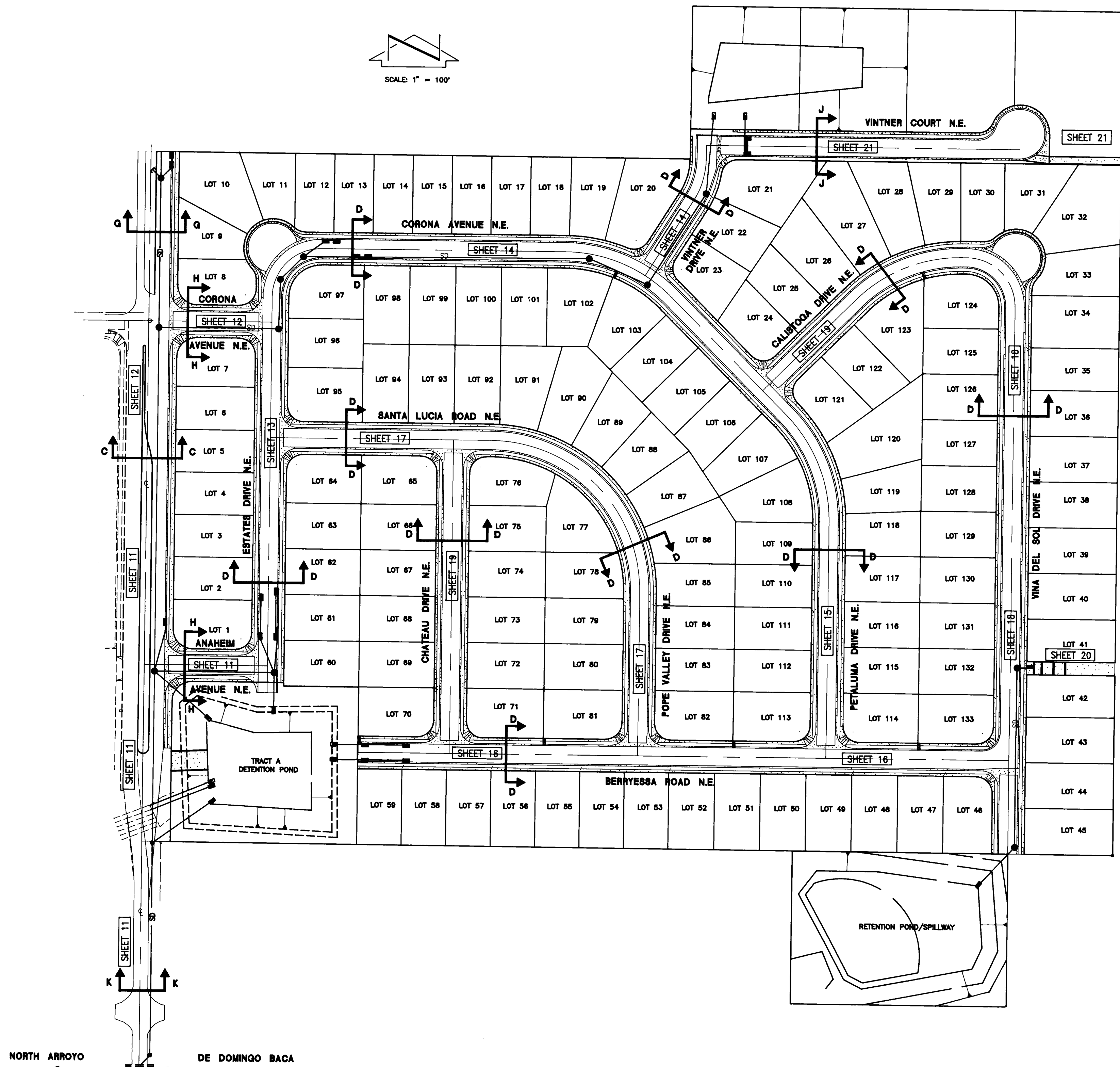
TAPER LENGTH COMPUTATION

<u>SPEED LIMIT</u>	
40 MPH OR LESS	$L = \frac{WS^2}{80}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK
85-PERCENTILE SPEED IN MPH

[illegible]

3 RECORD DRAWING



RECORD DRAWING

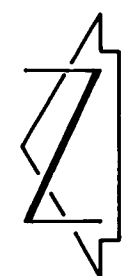
I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
No. 8547
Date 06-22-94

SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
FIELD NOTES			A STANDARD A.C.S. BRASS TABLET STAMPED "C21A-1987", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. ELEVATION = 5634.65 FEET (M.S.L.D.)			CONTRACTOR SPARKLING CONSTRUCTION		
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
N/A	02-94	J.M.A.	N/A	04-94	J.M.A.	N/A	J.M.A.	N/A
N/A			N/A			N/A	M.F.D.	05/95
N/A			N/A			N/A	FIELD CHECKED BY	DATE
N/A			N/A			N/A	VERIFICATION BY	DATE
N/A			N/A			N/A	CORRECTED BY	DATE
N/A			N/A			N/A	J.E.W.	05/95
						MICRO-FILM INFORMATION		
						RECORDED BY		
						NO.		

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: VINEYARD ESTATES UNIT IV PAVING AND STORM DRAINAGE SITE PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	8-9-94	9-27-94	WATER	N/A RWE	8-28-94
TRANSPORTATION	8-9-94	9-02-94	WASTE WATER	N/A RWE	8-29-94
HYDROLOGY	8-9-94	9-26-94			
PROJECT NO. 3391.96			MAP NO. C-20		
SHEET 10			OF 34		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 3391.96 1095



MATCH LINE STA 15+00
FOR CONTINUATION SEE SHEET 12

FOR CONTINUATION SEE SHEET 13

FOR CONTINUATION SEE SHEET 14

FOR CONTINUATION SEE SHEET 15

FOR CONTINUATION SEE SHEET 16

FOR CONTINUATION SEE SHEET 17

FOR CONTINUATION SEE SHEET 18

FOR CONTINUATION SEE SHEET 19

FOR CONTINUATION SEE SHEET 20

FOR CONTINUATION SEE SHEET 21

FOR CONTINUATION SEE SHEET 22

FOR CONTINUATION SEE SHEET 23

FOR CONTINUATION SEE SHEET 24

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

LOT 6

LOT 7

LOT 8

LOT 9

LOT 10

LOT 11

LOT 12

LOT 13

LOT 14

LOT 15

LOT 16

LOT 17

LOT 18

LOT 19

LOT 20

LOT 21

LOT 22

LOT 23

LOT 24

LOT 25

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LOT 196

ANAHEIM AVE. N.E.

VENTURA ST. N.E.

RECORD DRAWING

VENTURA STREET N.E.

RIGHT EDGE OF TEMPORARY
PAVING ELEVATIONS:

SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL

- ### STREET PAVING IMPROVEMENTS:
- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
 - WHERE REMOVAL OF EXISTING CURB AND GUTTER SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 - ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE -OF-CURB.
 - ALL 4' SIDEWALKS SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
 - ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
 - ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
 - UPON COMPLETION OF CONSTRUCTION, THE CITY OF ALBUQUERQUE WILL PROVIDE AND INSTALL ALL STREET SIGNS.
 - STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.

- ### STORM DRAIN NOTES:
- ALL STORM DRAIN TO BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 6' DIAMETER TYPE 'C' PER C.O.A. STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
 - ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS OTHERWISE NOTED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE.

CURB CURVE DATA			
CURVE	ARC	DELTA	RADIUS
(1)	25.13	180°00'00"	8'
(2)	47.11	89°34'45"	30'
(3)	47.12	90°00'00"	30'
(4)	39.27	90°00'00"	25'

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
New Mexico
06-22-95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE
VINEYARD ESTATES IV
PAVING AND STORM DRAIN IMPROVEMENTS PLAN AND PROFILE
VENTURA STREET N.E. STA. 6+63 TO STA. 10+00
ANAHEIM AVE. STA. 10+00 TO STA. 11+98.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B.G. Babbly	9-27-94	WATER	N/A RWK	8-29-94
TRANSPORTATION	Plant	9-29-94	WASTE WATER	N/A RWK	8-29-94
HYDROLOGY	Plant	9-29-94			

PROJECT NO. 3391.96
MAP NO. C-20
SHEET 11 OF 34

Figure 1 is a cross-sectional diagram of a concrete curb and gutter. The curb has a top width of 12 inches and a base width of 8 inches. The height of the curb is 6 inches. The gutter is 6 inches deep. The subgrade is compacted 95% A.S.T.M. D-1557. The asphaltic concrete pavement is shown on top of the curb and gutter.

SCALE: 1" = 1'



1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS. STATIONING IS ALONG FACE-OF-CURB.
2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SHOW AND REMOVE CURB AND GUTTER AT THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE -OF- CURB.
4. ALL 4' SIDEWALKS SHOWN HEREIN SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
5. ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
6. ALL CURB AND GUTTER SHOWN HEREIN SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
7. UPON COMPLETION OF CONSTRUCTION, THE CITY OF ALBUQUERQUE WILL PROVIDE AND INSTALL ALL STREET SIGNS.
8. STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.

1. ALL STORM DRAIN TO BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
2. ALL MANHOLES SHALL BE 6' DIAMETER TYPE 'C' PER C.O.A. STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
3. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS OTHERWISE NOTED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE.

VENTURA STREET N.E.



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use on future projects.

Jeffrey G. Mortensen R 233000
NEW MEXICO
8547
Jeffrey G. Mortensen Date 06-22-78

NAME NO. 

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

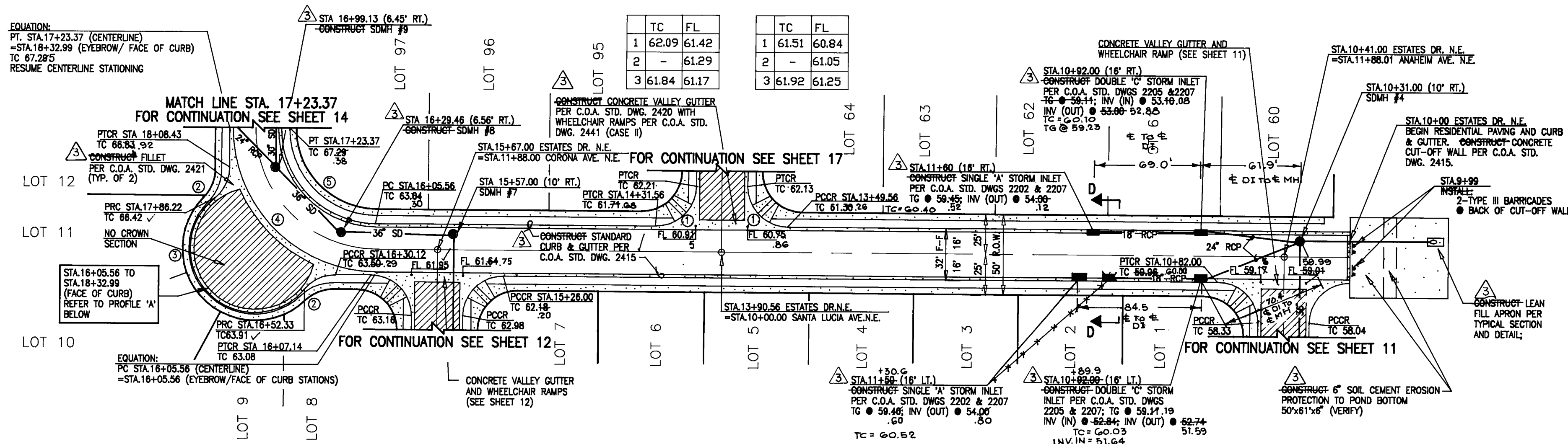
TITLE: VINEYARD ESTATES IV
PAVING AND STORM DRAIN IMPROVEMENTS PLAN AND PROFILE
VENTURA ST. N.E. STA. 15+00.00 TO STA. 20+55.70
CORONA AVE N.E STA 10+00.00 TO STA. 11+22.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. A. G. G. G.</i>	9-27-94	WATER	N/A R/WK	8-29-94
TRANSPORTATION	<i>B. A. G. G. G.</i>	9-02-94	WASTE WATER	N/A R/WK	8-29-94
HYDROLOGY	<i>B. A. G. G. G.</i>	9-02-94			

SHEET 12 OF 34

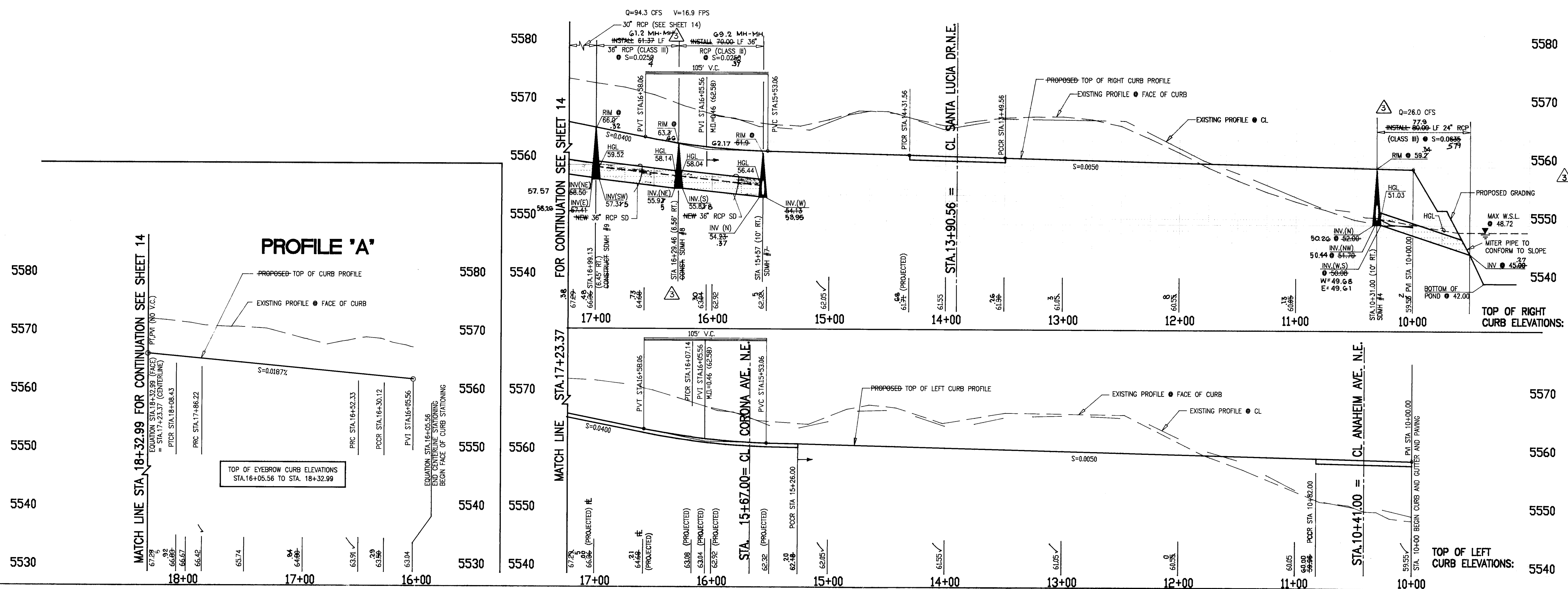
3 RECORD DRAWING

CURVE	ARC	DELTA	RADIUS
①	39.27	90°00'00"	25.00'
②	22.21	50°53'35"	25.00'
③	133.89	191°47'10"	40.00'
④	142.94	90°00'00"	91.00'
⑤	83.44	90°00'00"	59.00'



SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL

ESTATES DRIVE N.E.



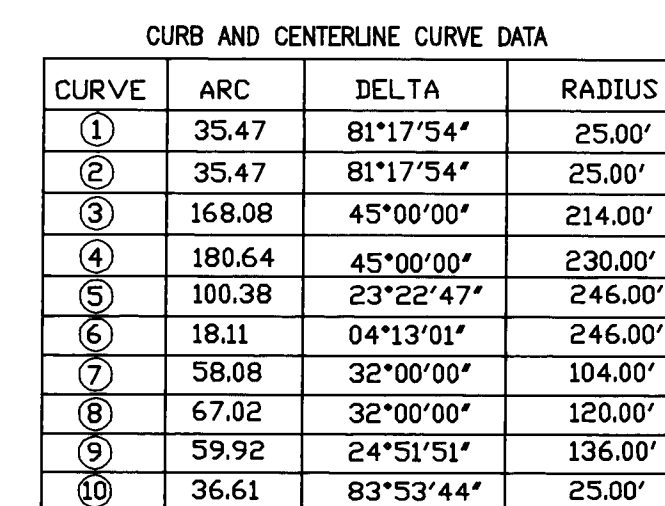
STREET PAVING IMPROVEMENTS:

1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUT-DE-SACS AND TEBROWS. CALLING IS ALONG FACE-OF-CURB.
2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAVOUT AND/OR REMOVE TO THE JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISTURBED. THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
4. ALL 4' SIDEWALKS SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
5. ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
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7. UPON COMPLETION OF CONSTRUCTION, THE CITY OF ALBUQUERQUE WILL PROVIDE AND INSTALL ALL STREET SIGNS.
8. STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.

STORM DRAIN NOTES:

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[illegible]

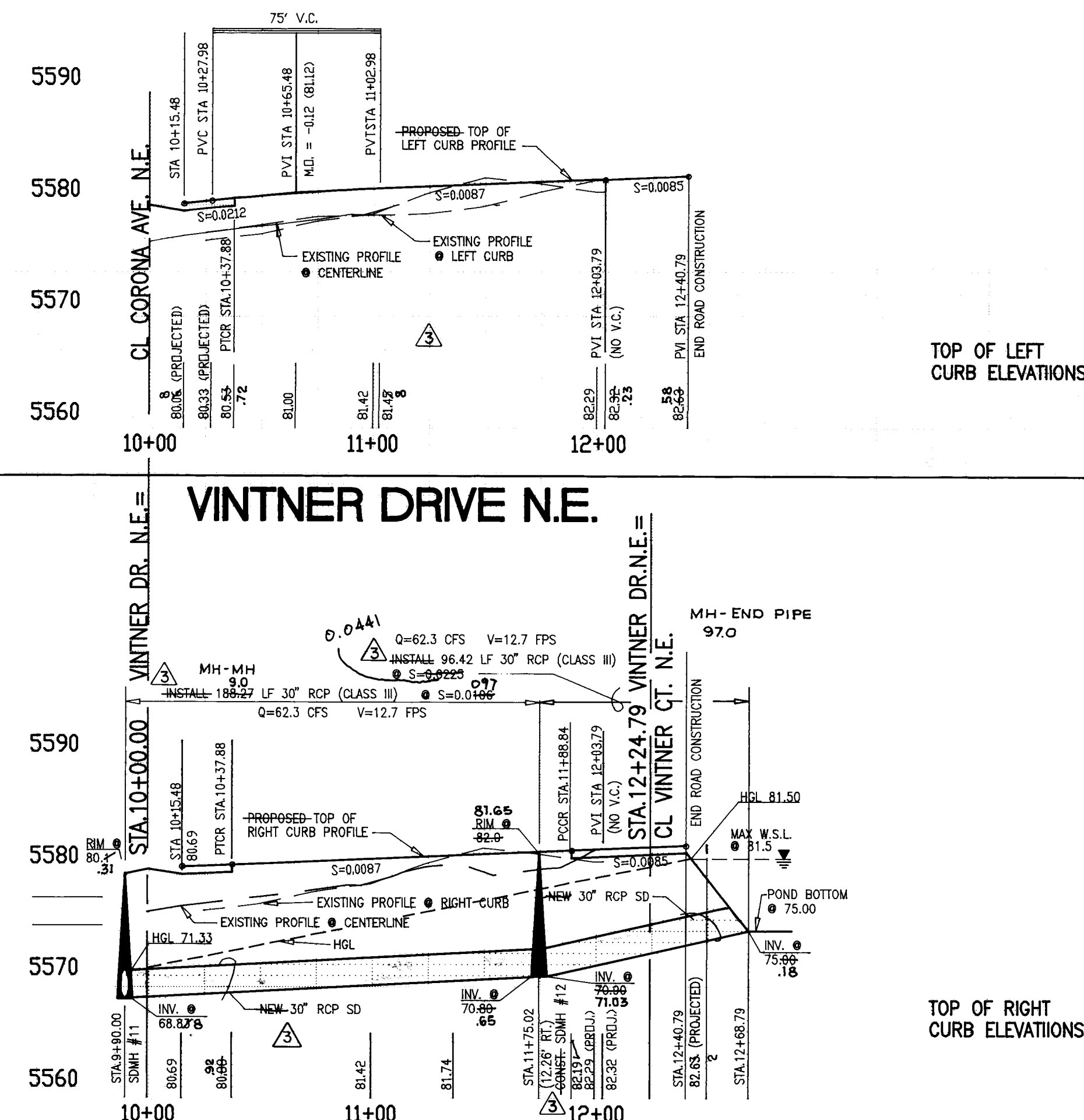


	TC	FL
1	82.39	81.72
2	-	81.91
3	82.77	82.10

	TC	FL
1	81.00	80.33
2	-	80.29
3	80.92	80.25

RECORD DRAWING

SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL



TOP OF LEFT
CURB ELEVATIONS

TOP OF RIGHT
CURB ELEVATIONS

- STREET PAVING IMPROVEMENTS:
1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE. STATIONING EXCEPT CUL-DE-SACS AND TIEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
 2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL CUT, SAW, CUT AND/OR NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACTOR WILL BE DAMAGED OR DISPLACED BY THE CONTRACTOR. SHALL BE REMOVED AND RECOVERED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
 4. ALL 4' SIDEWALKS SHOWN HEREIN SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
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RECORD DRAWING

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Jeffrey & Mortensen
NMFE No. 8947

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE	VINEYARD ESTATES IV PAVING AND STORM DRAIN IMPROVEMENTS PLAN AND PROFILE CORONA AVE. NE. STA.17+23.37 TO STA.23+50 VINTNER DRIVE NE. STA.10+00 TO STA.12+68.79
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. G. Swoboda</i>	<i>8-27-94</i>	WATER	<i>N/A RWK</i>	<i>8-29-94</i>
TRANSPORTATION	<i>David</i>	<i>9-02-94</i>	WASTE WATER	<i>N/A RWK</i>	<i>8-29-94</i>
HYDROLOGY	<i>Hampton</i>	<i>9-28-94</i>			

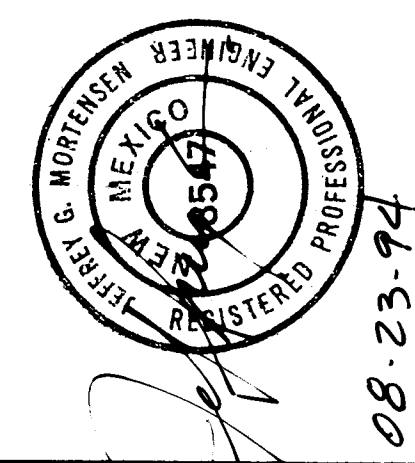
PROJECT NO	3391 96	MAP NO	C-20	SHEET	14	OF	34
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CONTRACT NO.		SPARKLING CONSTRUCTION	
WORK ORDER NO.	J.M.A. DATE 04/05/05	FIELD J.M.A. DATE 05/05/05	
INSPECTOR		INSPECTOR	
IN CHARGE BY		IN CHARGE BY	
CHECKED BY		CHECKED BY	
DATE		DATE	
AS BUILT INFORMATION		MICRO-FILM INFORMATION	
RECORDED BY		RECORDED BY	
10		10	

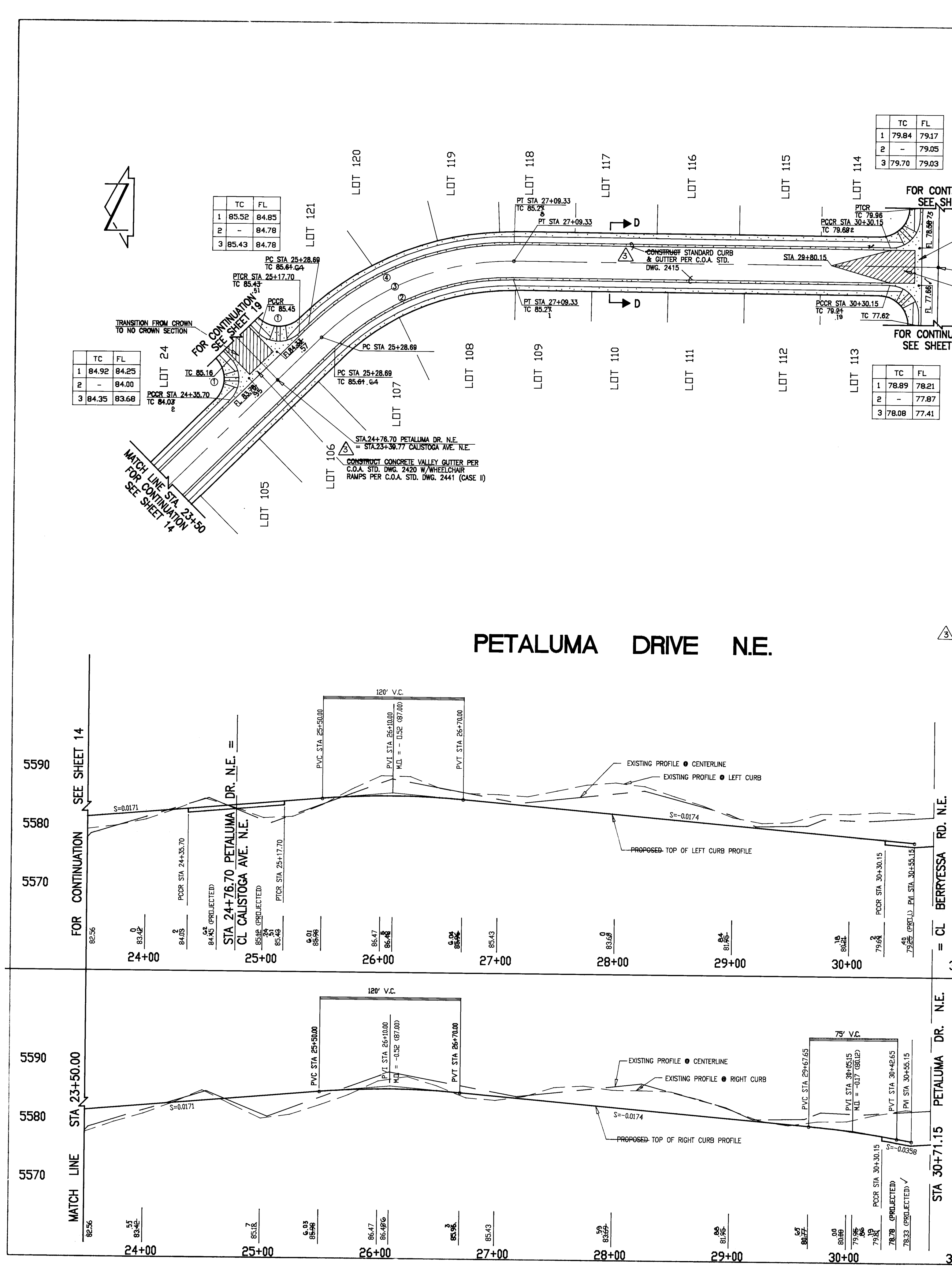
BENCH MARKS
BRASS TABLET STAMPED "C21A-1978" SET IN
THE POST FLUSH WITH THE GROUND.

SURVEY INFORMATION	
FIELD NOTES	

ENGINEER'S SEAL

[illegible]

08.23.94



CURB AND CENTERLINE CURVE DATA			
CURVE	ARC	DELTA	RADIUS
1	39.27'	90°00'00"	25.00'
2	168.08'	45°00'00"	214.00'
3	180.64'	45°00'00"	230.00'
4	193.21'	45°00'00"	246.00'

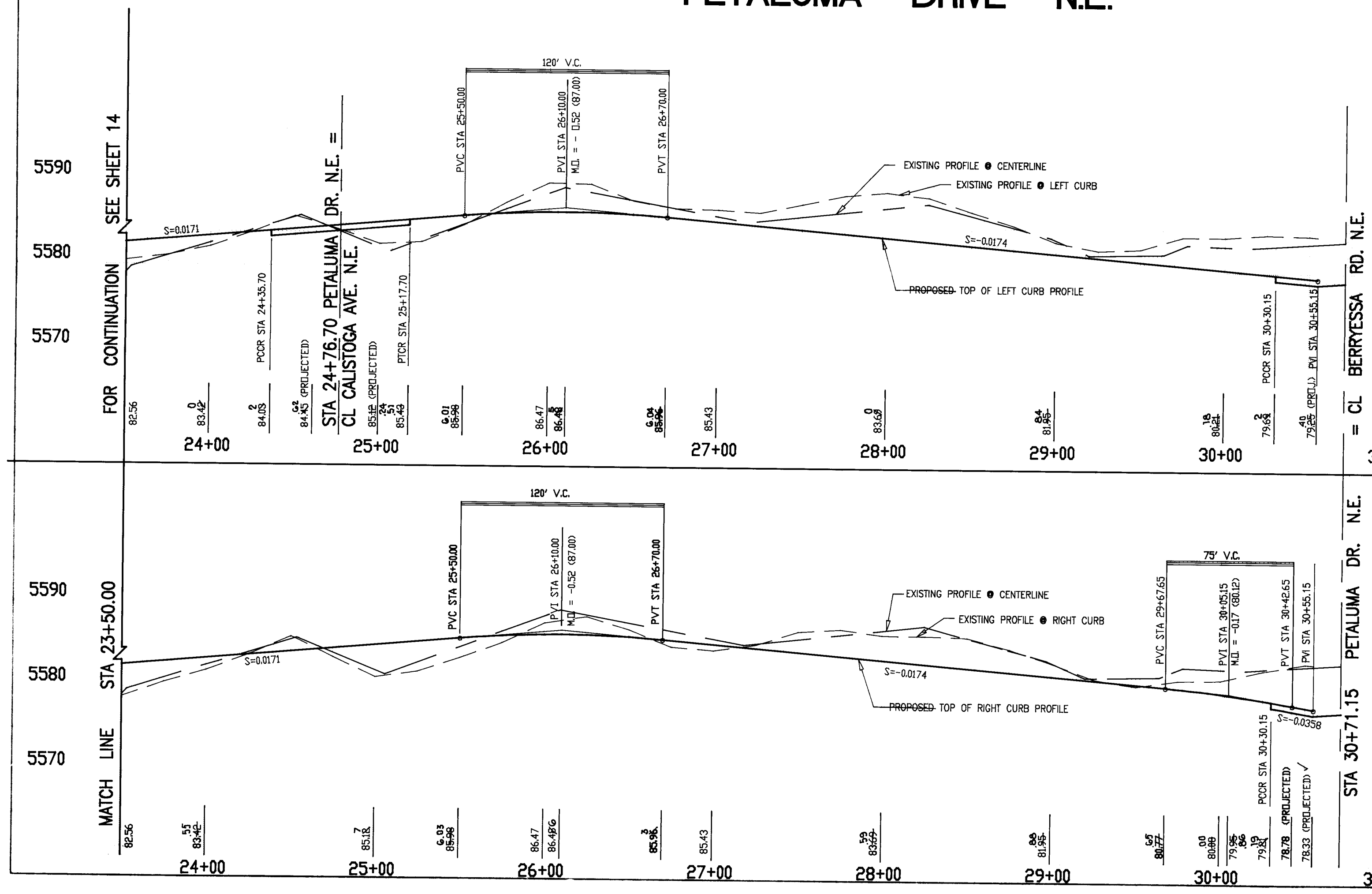
TC	FL
1 79.84	79.17
2 -	79.05
3 79.70	79.03

TC	FL
1 78.89	78.21
2 -	77.87
3 78.08	77.41

PETALUMA DRIVE N.E.

RECORD DRAWING

SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL



- STREET PAVING IMPROVEMENTS:
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 - WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
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AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	SPARLING CONSTRUCTION	A STANDARD A.C.S. BRASS TABLET STAMPED "C21A-1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND.	ELEVATION = 5834.84 FEET (MSLD)	NO. N/A	DATE 2-94	BY J.M.A.	NO. N/A
DATE 04/95	DATE 05/95	DATE 05/95	DATE 05/95	DATE 05/95	DATE 05/95	DATE 05/95	DATE 05/95
MICRO-FILM INFORMATION		REVISIONS		DESIGN		CHECKED BY J.G.M.	
RECORDED BY		NO.		DATE 07-94		DATE 07-94	

26 3391 916 1595

RECORD DRAWING

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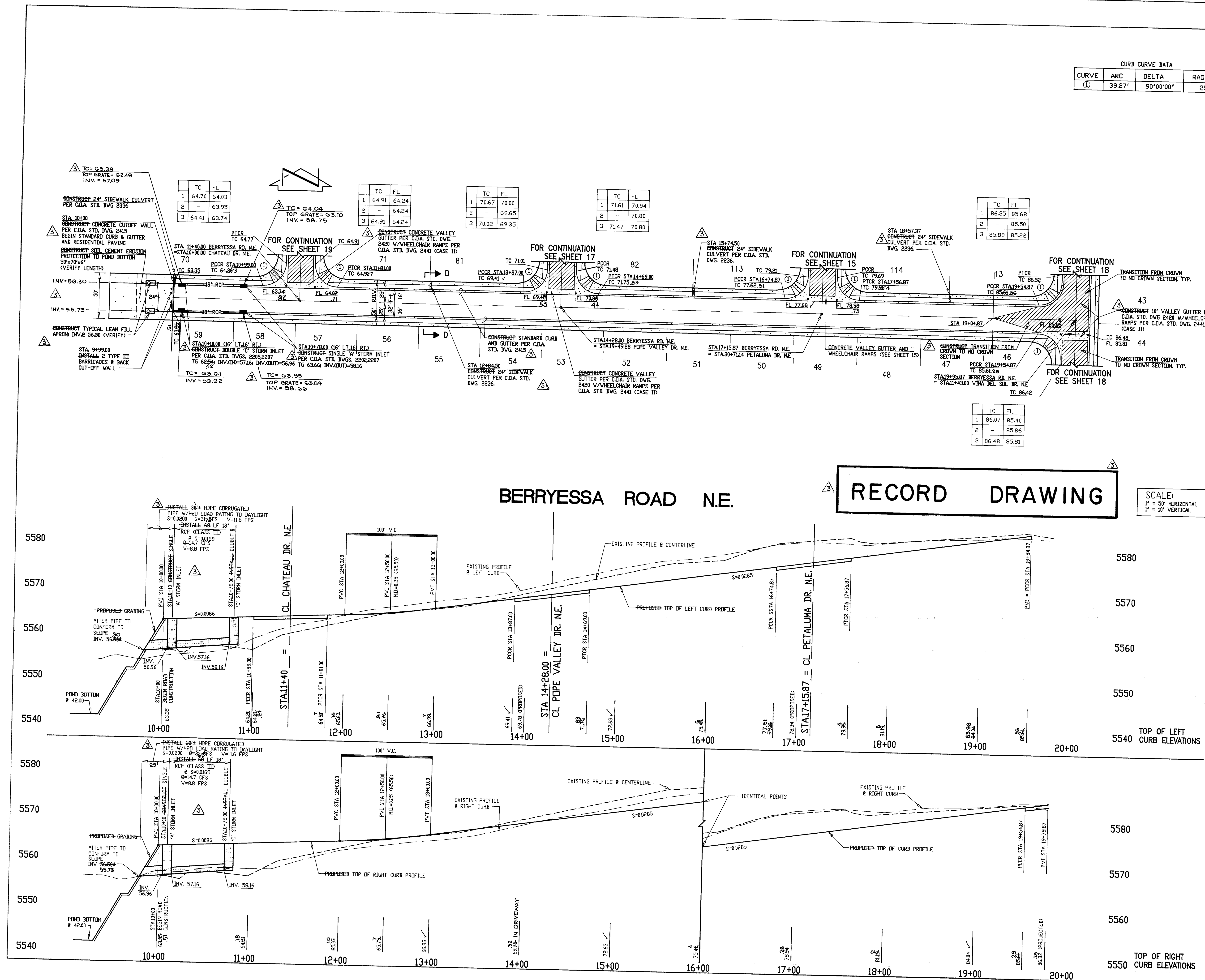
Jeffrey G. Mortensen
NEW MEXICO
8547
Professional Engineer
NMPE No. 8547
Date 06-22-95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE
VINEYARD ESTATES IV
PAVING AND STORM DRAIN IMPROVEMENTS PLAN AND PROFILE
PETALUMA DRIVE N.E. STA 23+50 TO STA 30+71.15

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B.A. Kelly	9-27-94	WATER	N/A	RWK 8-22-94
TRANSPORTATION	N/A	9-22-94	WASTE WATER	N/A	RWK 8-22-94
HYDROLOGY	N/A	9-22-94			

PROJECT NO. 3391.96 MAP NO. C-20 SHEET 15 OF 34

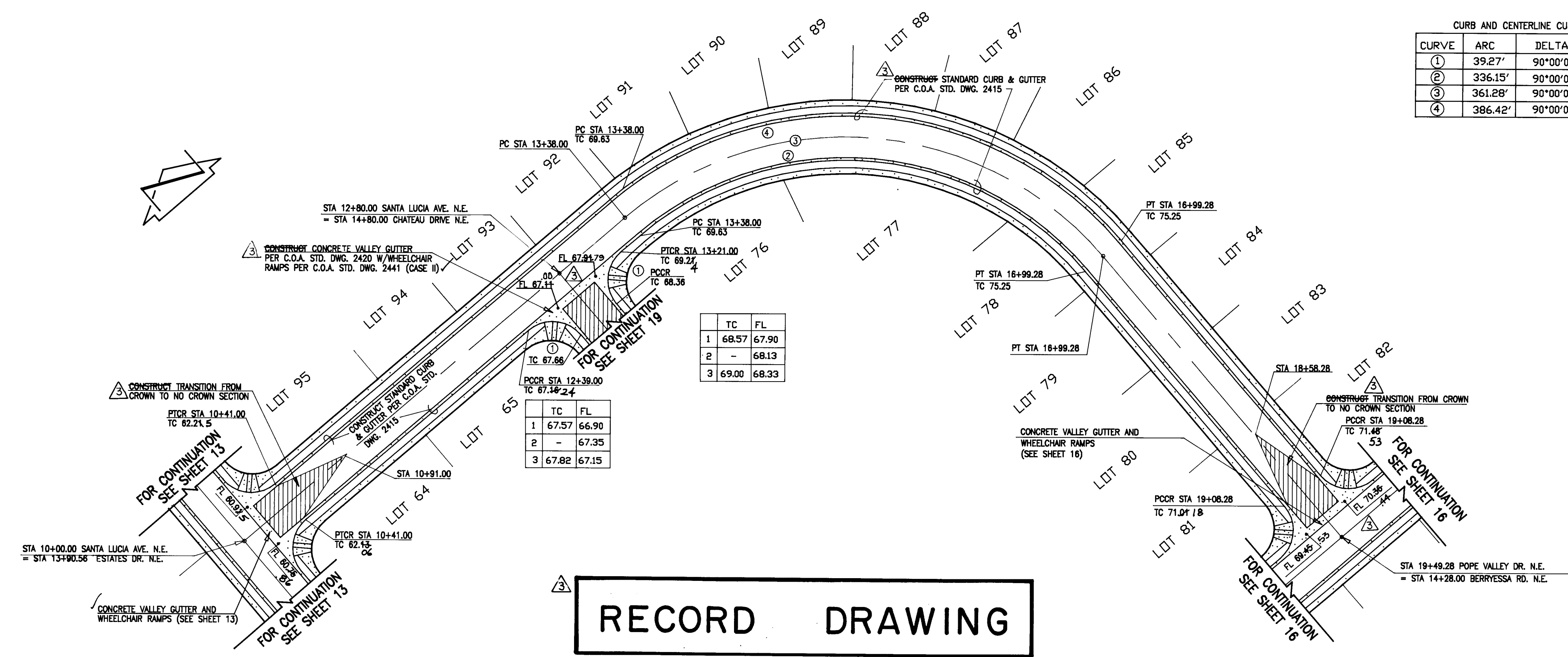


CURB CURVE DATA		
CURVE	ARC	DELTA
1	39.27'	90°00'00"
2		25.00'

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AS BUILT INFORMATION		
CONTRACTOR	SPARLING CONSTRUCTION	DATE
INSPECTOR	JMA	DATE
APPROVED BY	JMA	DATE
REVISIONS		
NO.	DATE	BY
1	08/95	JMA
2	09/95	JMA
3	09/95	JMA
4	09/95	JMA
5	09/95	JMA
6	09/95	JMA
7	09/95	JMA
8	09/95	JMA
9	09/95	JMA
10	09/95	JMA
11	09/95	JMA
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78	09/95	JMA
79	09/95	JMA
80	09/95	JMA
81	09/95	JMA
82	09/95	JMA
83	09/95	JMA
84	09/95	JMA
85	09/95	JMA
86	09/95	JMA
87	09/95	JMA
88	09/95	JMA
89	09/95	JMA
90	09/95	JMA
91	09/95	JMA
92	09/95	JMA
93	09/95	JMA
94	09/95	JMA
95	09/95	JMA
96	09/95	JMA
97	09/95	JMA
98	09/95	JMA
99	09/95	JMA
100	09/95	JMA

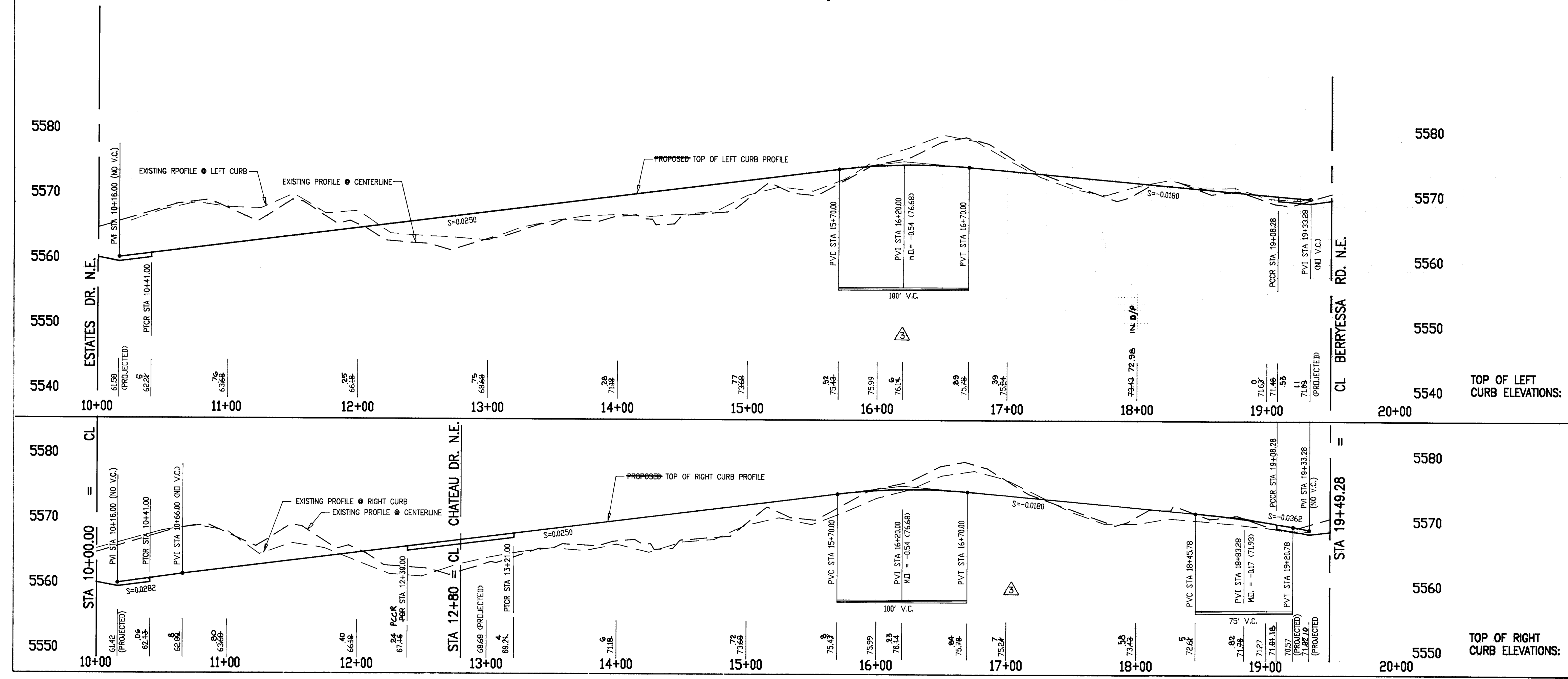


CURB AND CENTERLINE CURVE DATA			
CURVE	ARC	DELTA	RADIUS
1	39.27'	90°00'00"	25.00'
2	336.15'	90°00'00"	214.00'
3	361.28'	90°00'00"	230.00'
4	386.42'	90°00'00"	246.00'

RECORD DRAWING

SANTA LUCIA AVE. N.E. / POPE VALLEY DR. N.E.

SCALE:
1" = 30' HORIZONTAL
1" = 10' VERTICAL

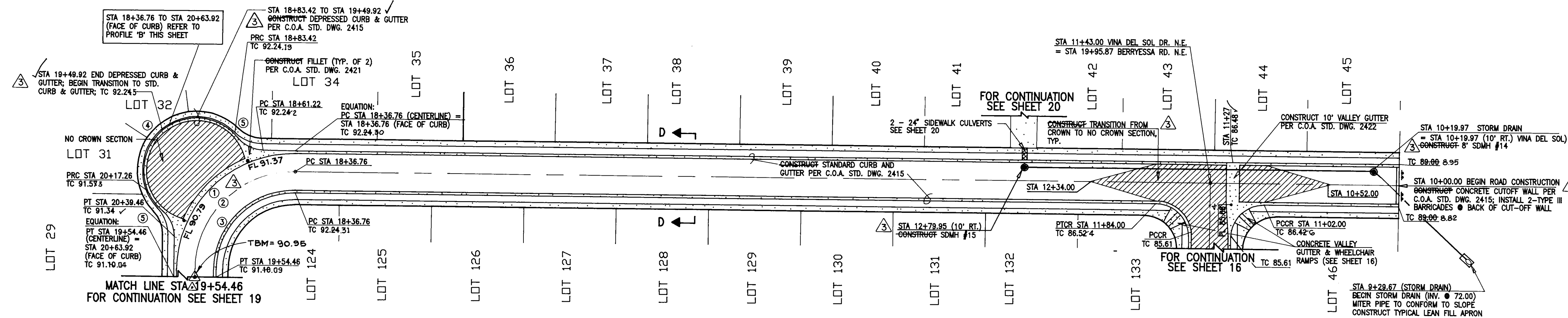


- STREET PAVING IMPROVEMENTS:
- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
 - WHERE REMOVAL OF EXISTING CURB AND GUTTER SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 - ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE -OF-CURB.
 - ALL 4' SIDEWALKS SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
 - ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
 - ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
 - UPON COMPLETION OF CONSTRUCTION, THE CITY OF ALBUQUERQUE WILL PROVIDE AND INSTALL ALL STREET SIGNS.
 - STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			
CONTRACTOR	SPARKLING CONSTRUCTION	J.M.A.	DATE	04/95		NO	BY	J.M.A.	DATE	07-94	DATE	07-94
WORK	STREET BARS	ACCESS PANEL BY	M.F.D.	DATE	05/95	NO	BY	J.M.A.	DATE	07-94	DATE	07-94
FIELD	LOCATION BY	J.M.A.	DATE	05/95		NO	BY	J.M.A.	DATE	07-94	DATE	07-94
CORRECTED BY	DATE					NO	BY	J.M.A.	DATE	07-94	DATE	07-94
MICRO-FILM INFORMATION			REVISIONS			REMARKS			DESIGN			
						</						

RECORD DRAWING

CURVE	ARC	DELTA	RADIUS
①	142.81'	89°55'07"	91.00'
②	117.70'	89°55'07"	75.00'
③	92.59'	89°55'07"	59.00'
④	133.84'	191°42'18"	40.00'
⑤	22.21'	50°53'35"	25.00'



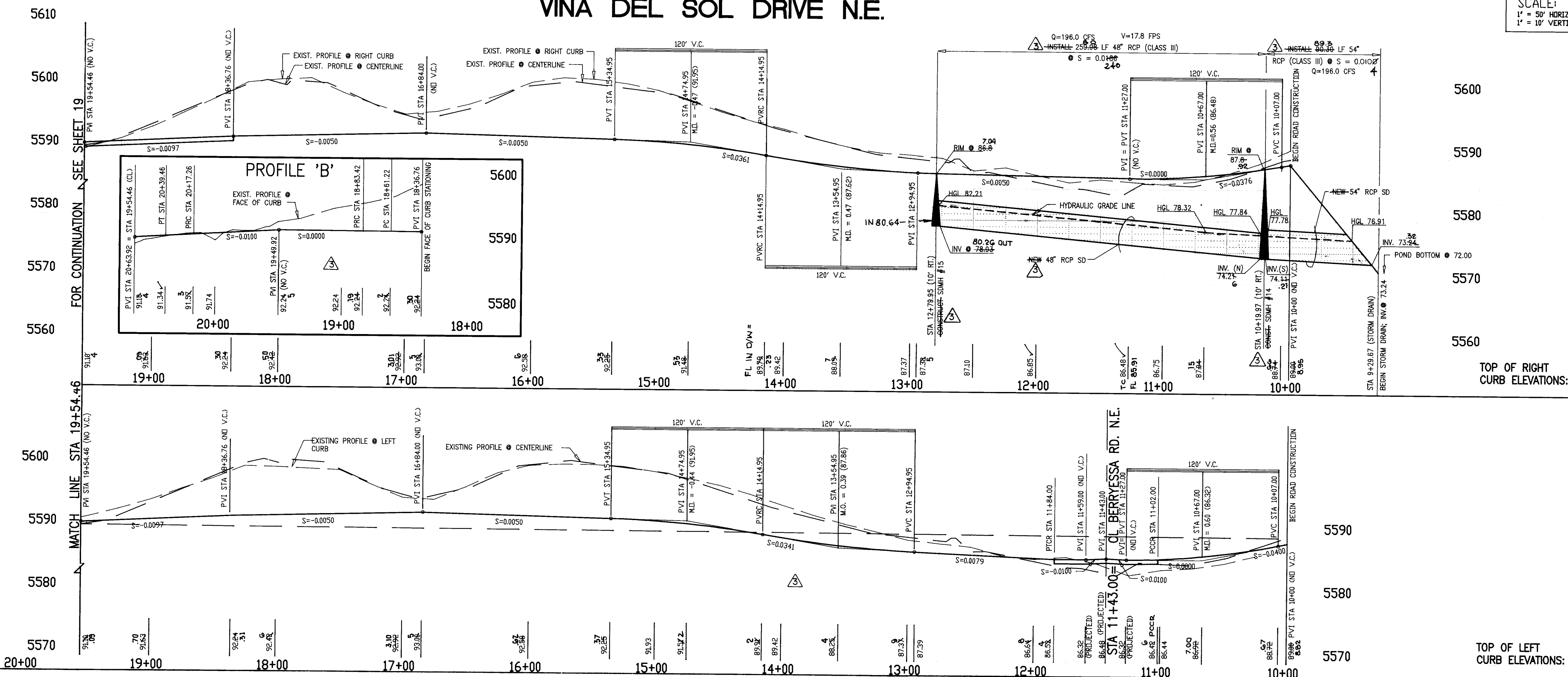
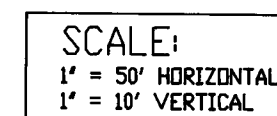
1. STREET PAVING IMPROVEMENTS:
 - ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHICH STATIONING IS ALONG FACE-OF-CURB.
2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL START AND/OR FINISH AT THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
4. ALL 4' SIDEWALKS SHOWN HEREIN SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
5. ALL WHEELCHAIR RAMP'S MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
6. ALL CURB AND GUTTER SHOWN HEREIN SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
7. UPON COMPLETION OF CONSTRUCTION, THE CITY OF ALBUQUERQUE WILL PROVIDE AND INSTALL ALL STREET SIGNS.
8. STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.

STORM DRAIN NOTES:

1. ALL STORM DRAIN TO BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
2. ALL MANHOLES SHALL BE 6' DIAMETER TYPE 'C' PER C.D.A. STANDARD DRAINING 2101 UNLESS OTHERWISE NOTED.
3. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS OTHERWISE NOTED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE.

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	A STANDARD A.C.S. BRASS TABLE STAMPED "C21A-1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. ELEVATION = 5634.84 FEET (M.S.L.D.)		CONSTRUCTION	
	BY	DATE		STAMPED BY	J.M.A. DATE 04/25
N/A	J.M.A.	2-94		INSPECTED BY	M.F.D. DATE 09/95
				FIELD RANCE BY	
				VERIFICATION BY	J.E.W. DATE 05/95
				RECORDED BY	
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO	

VIÑA DEL SOL DRIVE N.E.



RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey A. Kortensen
NMPE No. 8547

	05/95	AS-BUILT AND CERTIFY	M.F.D.	ENGINEER'S SEAL
NO DATE			BY	
<i>REVISIONS</i>				
<i>DESIGN</i>				
DESIGNED BY	G.M.	DATE	07-94	 <i>[Signature]</i> 08.23.94
DRAWN BY	S.G.H.	DATE	07-94	
CHECKED BY	J.G.M.	DATE	07-94	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

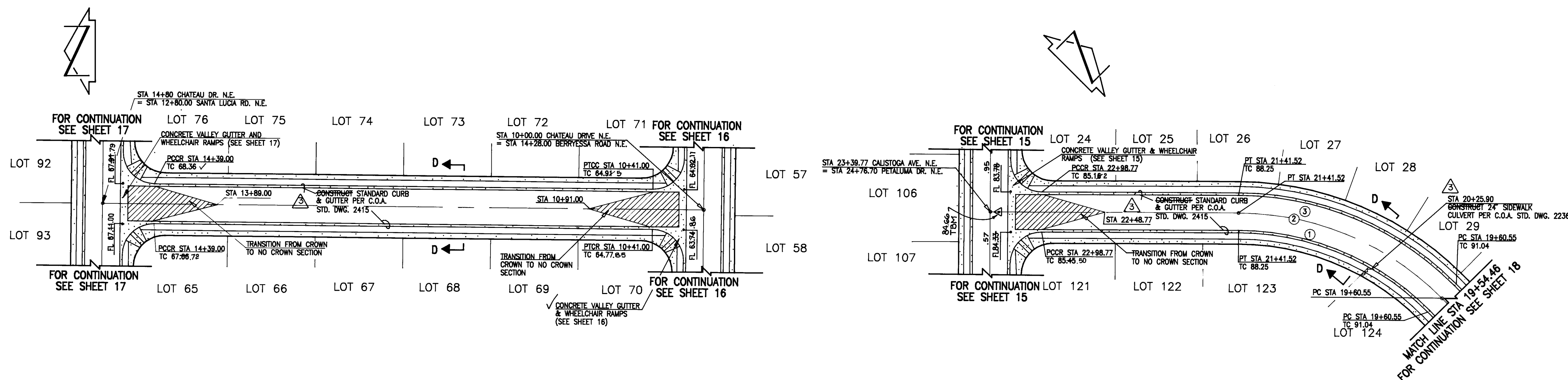
TITTLE		VINEYARD ESTATES IV PAYING AND STORM DRAIN IMPROVEMENTS PLAN AND PROFILE VINA DEL SOL DR. NE. STA. 10+00 TO STA. 19+54.46			
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>B. G. Smith</i>	8-29-94	WATER	N/A	RWK 8-29-94
TRANSPORTATION	<i>B. G. Smith</i>	9-02-94	WASTE WATER	N/A	RWK 8-29-94
HYDROLOGY	<i>B. G. Smith</i>	9-28-94			

930847

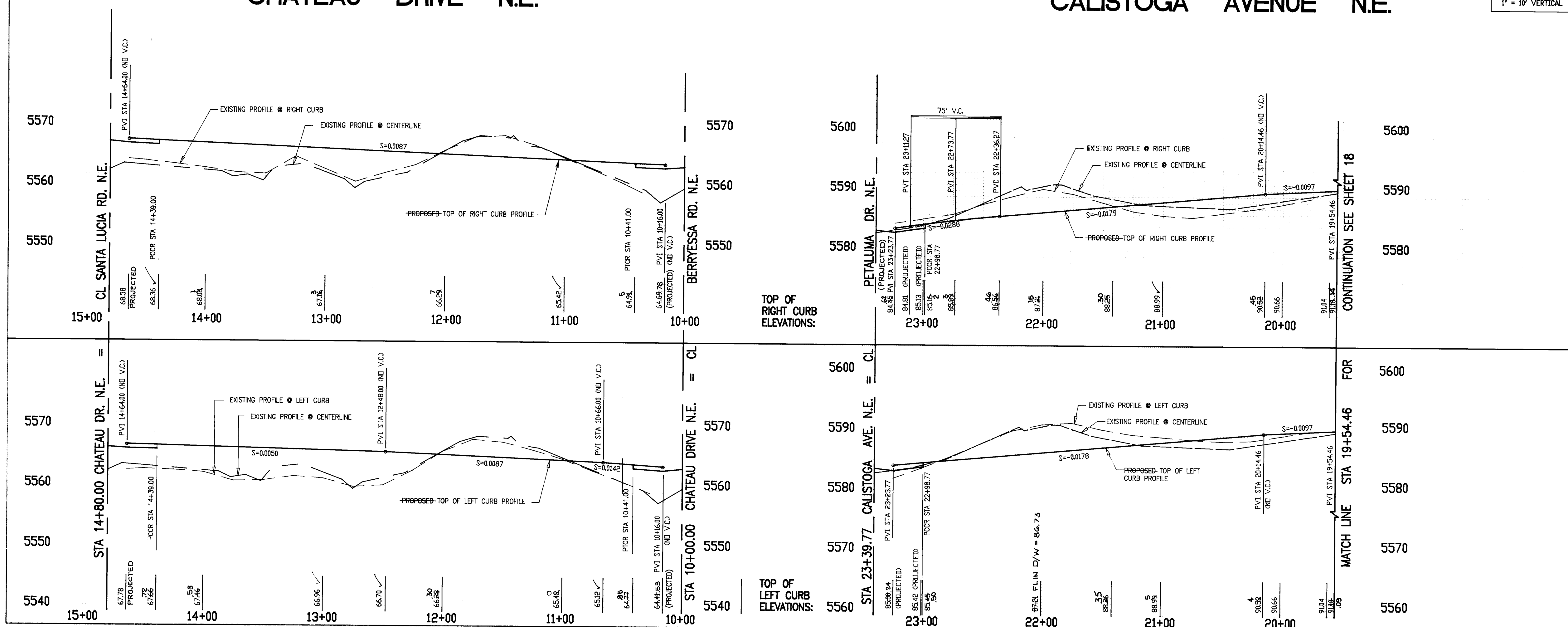
PROJECT NO. 3391.96	MAP NO. C-20	SHEET 18 OF 34
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3

CURVE	ARC	DELTA	RADIUS
①	168.38'	45°04'53"	214.00'
②	180.97'	45°04'53"	230.00'
③	193.56'	45°04'53"	246.00'



SCALE:
1' = 50' HORIZONTAL
1' = 10' VERTICAL



1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
4. ALL 4' SIDEWALKS SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
5. ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
6. ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
7. UPON COMPLETION OF CONSTRUCTION, THE CITY OF ALBUQUERQUE WILL PROVIDE AND INSTALL ALL STREET SIGNS.
8. STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.

AS - BUILT AND CERTIFY		M.F.D.	ENGINEER'S SEAL	SURVEY		INFORMATION	BENCH	MARKS	AS BUILT		INFORMATION
05/95				FIELD NOTES		DATE 2-94 BY J.M.A.	A STANDARD A.C.S. BRASS TABLET STAMPED "C21A-1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. ELEVATION = 5634.84 FEET (MSLD).		CONTRACTOR	SPARING	CONSTRUCTION
NO	DATE	NO									
		N/A									
REMARKS		BY							FIELD	DATE	05/95
REVISIONS									REVISIONS BY	J.E.W.	DATE 05/95
DESIGN									CORRECTED BY		
DESIGNED BY	G.M.	DATE	07-94						MICRO-FILM INFORMATION		
DRAWN BY	S.G.H.	DATE	07-94						RECORDED BY		DATE
CHECKED BY	J.C.M.	DATE	07-94						NO		

3 RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me and under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

JEFFREY G. MORTENSEN
NEW MEXICO
8547
Jeffrey G. Mortensen
06-22-9
Data

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE VINEYARD ESTATES IV
PAYING AND STORM DRAIN IMPROVEMENTS PLAN AND PROFILE
CHATEAU DRIVE NE STA.10+00 TO STA.14+00
CALISTOGA AVENUE NE STA.10+54.46 TO STA.23+39.77

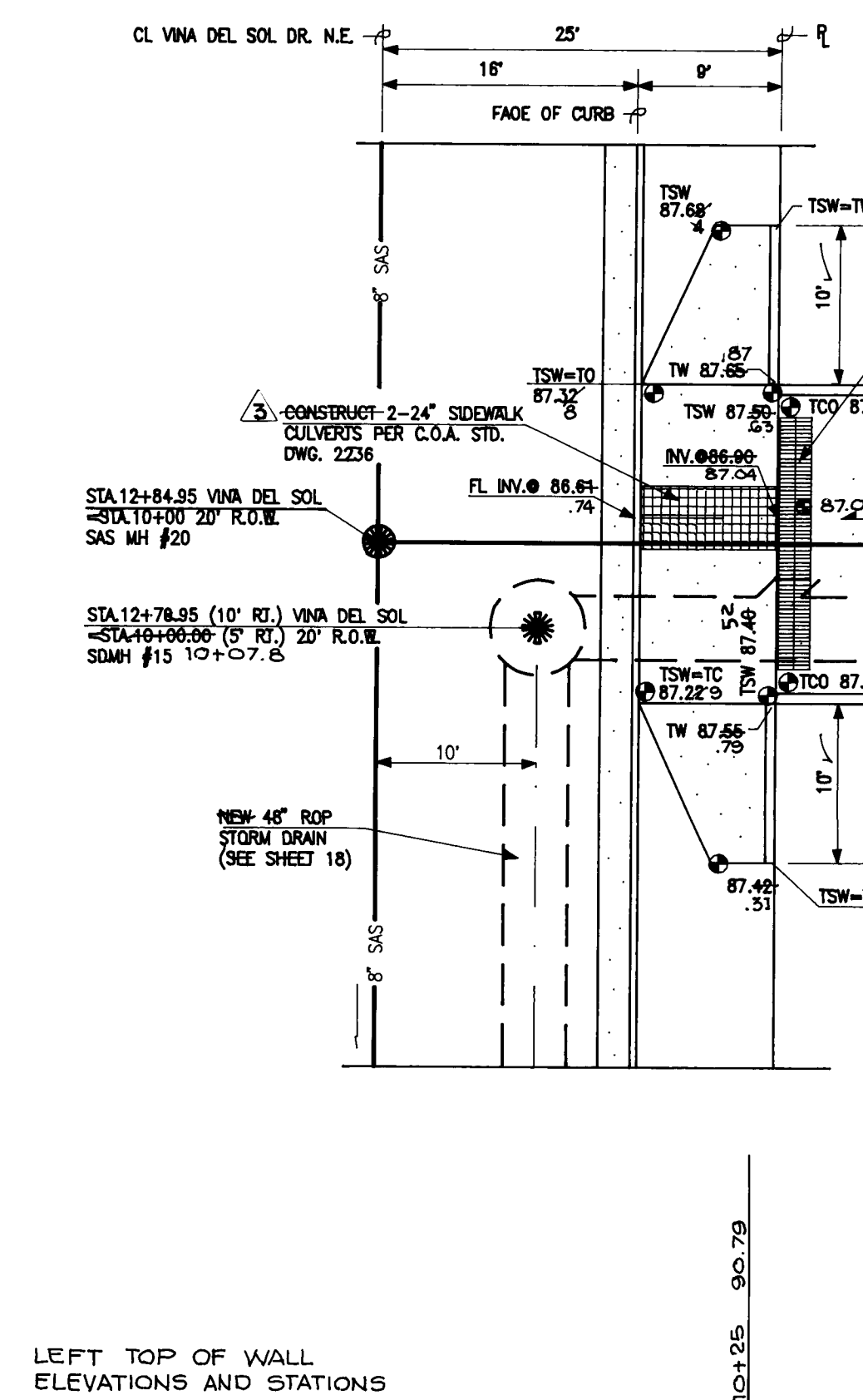
APPROVALS			APPROVALS		
	ENGINEER	DATE		ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. Gardley</i>	9-27-94	WATER	N/A RWE	8-29-94
TRANSPORTATION	<i>J. B. Bandy</i>	9-02-94	WASTE WATER	N/A RWE	8-29-94
HYDROLOGY	<i>N/A DRC</i>	9-28-94			

930847

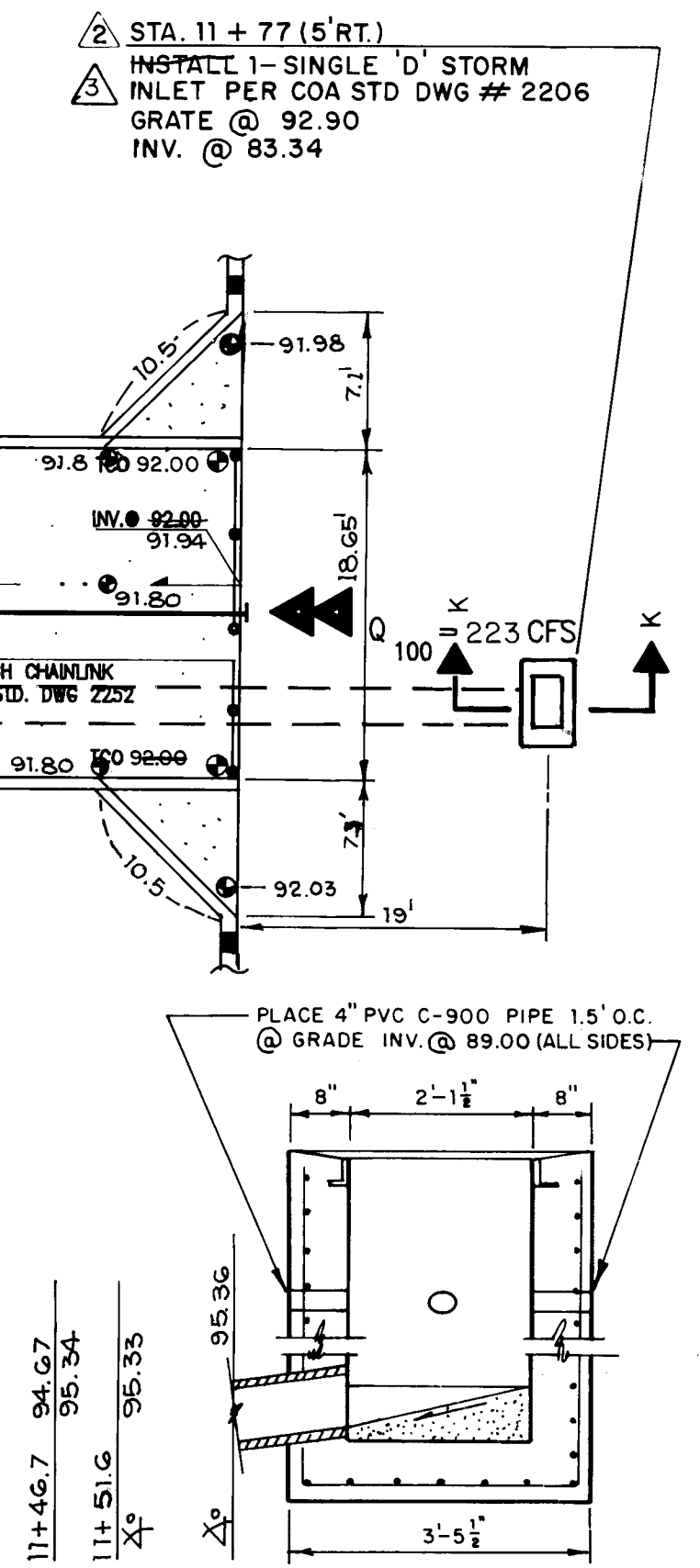
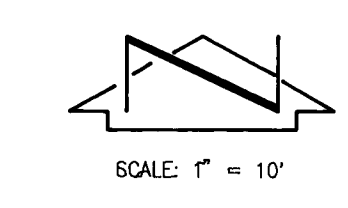
PROJECT NO.	3391.96
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MAP NO.	C-20
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SHEET 19 OF 34



RECORD DRAWING



CHANNEL HYDRAULICS
Q₁₀₀ = 196 cfs y = 0.9 ft
n = 0.013 A = 12.14 sf
S = 0.0379 P = 19.5 ft
R = 0.623
Q = (1.49/nAR)^{2/3} / 2
Q = 197.6 cfs > Q₁₀₀

INLET CAPACITIES
Station 10+66.06 = 0.9 ft
Depth @ Flowline = 0.4 ft
Average Depth = b = 0.65 ft
Q₁ = CA√2gS
Where C = 0.6
A = 1/2(16)(2.12)
= 17 sf (using effective grate area factor of 1/2)
g = 32.2 ft/sec²
S = 0.0379
Q₁ = 66 cfs
Q_{Residual} = 196 - 66 = 130 cfs
Station 10+51.06
Depth @ Flowline = 0.25 ft
Depth @ Edge = 0.75 ft
Average Depth = b = 0.50 ft
Q₂ = CA√2gS
Where C = 0.6
A = 17 sf
g = 32.2 ft/sec²
S = 0.0379
Q₂ = 58 cfs
Q_{Residual} = 130 - 58 = 72 cfs
Station 10+36.06
Depth @ Flowline = 0.60 ft
Depth @ Edge = 0.10 ft
Average Depth = b = 0.36 ft
Q₃ = CA√2gS
Where C = 0.6
A = 17 sf
g = 32.2 ft/sec²
S = 0.0379
Q₃ = 48 cfs
Q_{Residual} = 72 - 48 = 24 cfs
Station 10+26.73
Depth @ Flowline = 0.40 ft
Top Width of Flow = 14.9 ft
Use 6 single 10" inlets for total width of 16" > 14.9"
Average Depth = 0.20 ft
Q₄ = CA√2gS
Where C = 0.6
A = 1/2(2.12)(14.9) = 15.8 sf
g = 32.2 ft/sec²
S = 0.0379
Q₄ = 34 cfs > Q_{Residual}

LEFT TOP OF WALL ELEVATIONS AND STATIONS

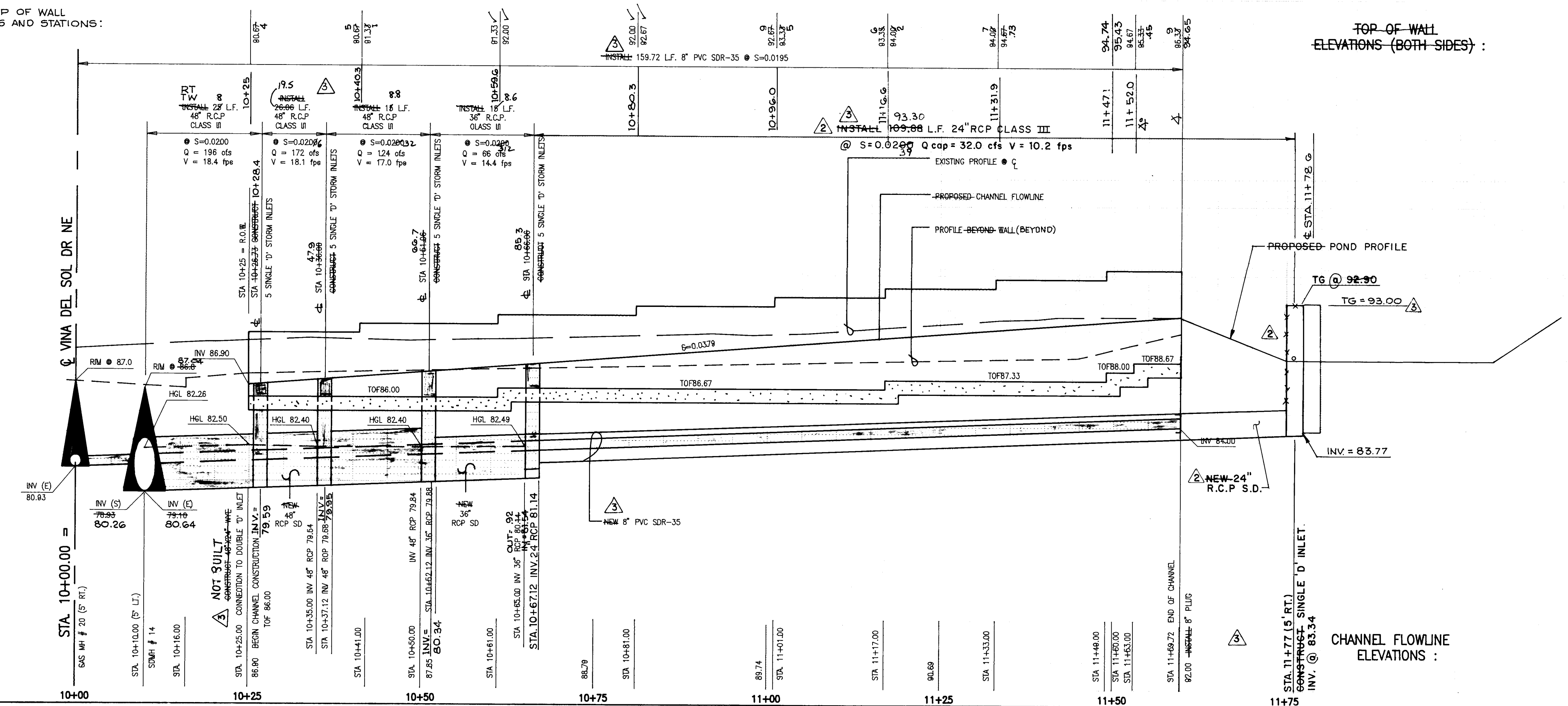
20' PUBLIC DRAINAGE AND SANITARY SEWER R.O.W.

SECTION K-K
SCALE: 1" = 2'-0"

TOP-OF-WALL ELEVATIONS (BOTH SIDES):

SCALE:
1" = 10' HORIZONTAL
1" = 5' VERTICAL

RIGHT TOP OF WALL ELEVATIONS AND STATIONS:



5610

5605

5600

5595

5590

5585

5580

5575

5570

5565

930847

- STORM DRAIN NOTES:
- ALL STORM DRAIN TO BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 6' DIAMETER TYPE 'C' PER C.O.A. STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
 - ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS OTHERWISE NOTED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE.
 - REFER TO SHEET 5A FOR INTERIM LIMITS OF CHANNEL CONSTRUCTION.

- NOTES:
- 8"X8"X16' CMU OF UBC STD. 24-4 OR 24-5.
 - USE KNOCK-OUT BOND BEAM BLOCK AT 4'-0" C.C., VERTICALLY, AND 1 #4 CONTINUOUS.
 - FILL ALL BLOCK JOINTS WITH 3000 PSI CONCRETE.
 - REINFORCING TO BE INTERMEDIATE GRADE STEEL. F_y = 20,000 psi.
 - IN LIEU OF CONTINUOUS KNOCK-OUT BOND BEAMS, CONTRACTOR MAY INSTALL DUE-WALL REINFORCING EVERY SECOND COURSE.
 - SPLICE SHALL BE 40 BAR DIAM. MINIMUM FOR VERTICAL BARS. ALL OTHER SHALL BE 20 BAR DIAM. MINIMUM.
 - CONCRETE FILL SHALL BE 21 DAYS OLD PRIOR TO BACKFILLING.

- SANITARY SEWER CONSTRUCTION NOTES:
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 - ALL SEWER PIPE SHALL BE PVC (SDR 35).
 - SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
 - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'C' PER C.O.A. STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
 - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRODE MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING. NO SEPARATE PAYMENT WILL BE MADE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING UTILITIES DAMAGED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING. NO SEPARATE PAYMENT WILL BE MADE.
 - WHERE WATER AND SANITARY SEWER CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING. IF THE CROSSING IS VERTICAL SEPARATION DOES NOT EXIST.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	BY	FIELD NOTES	CONTRACTOR	SPARING CONSTRUCTION	WORK	DATE
N/A	02/94	JMA					05/95

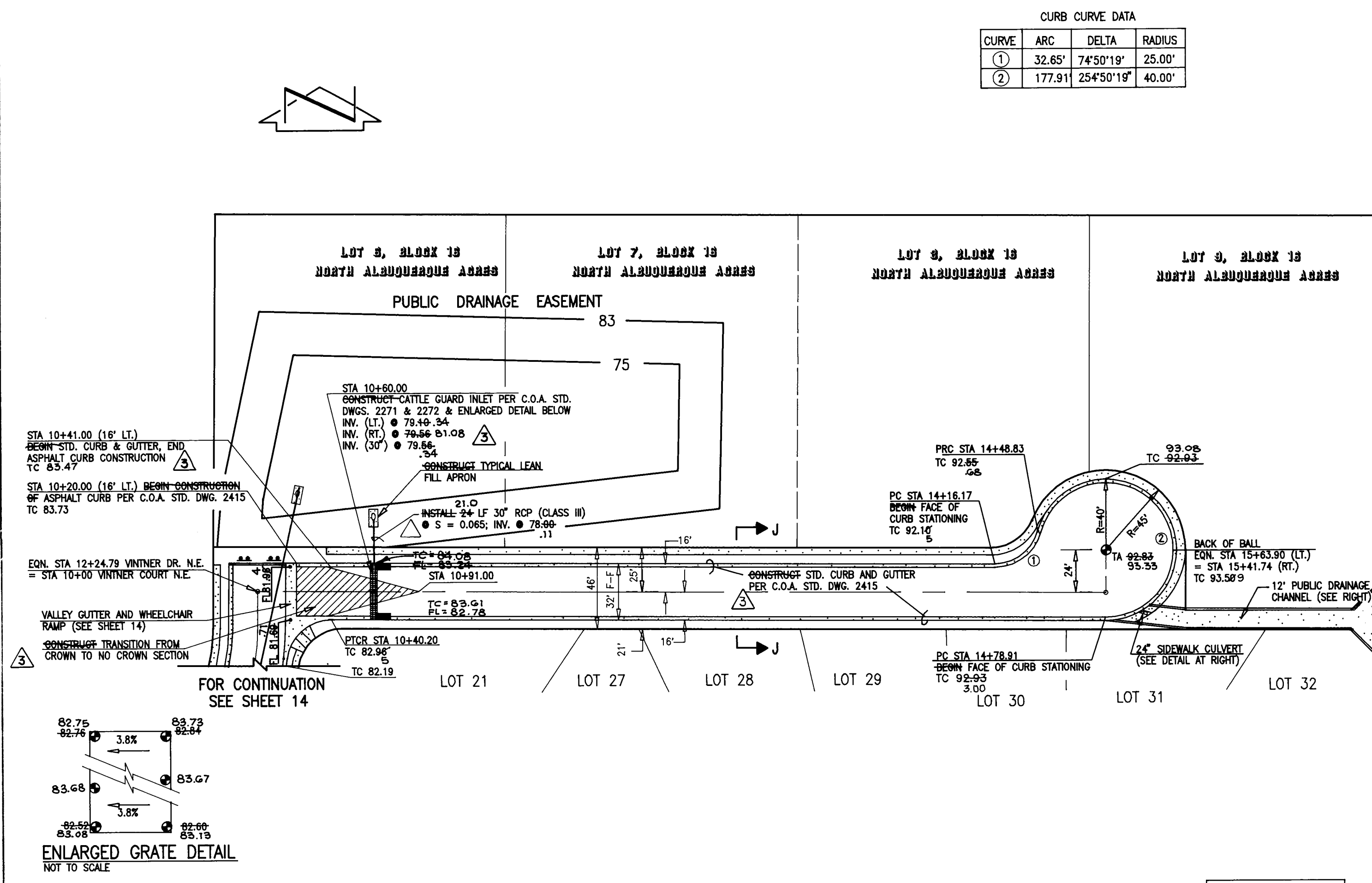
RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
No. 8547
Date 06-22-95

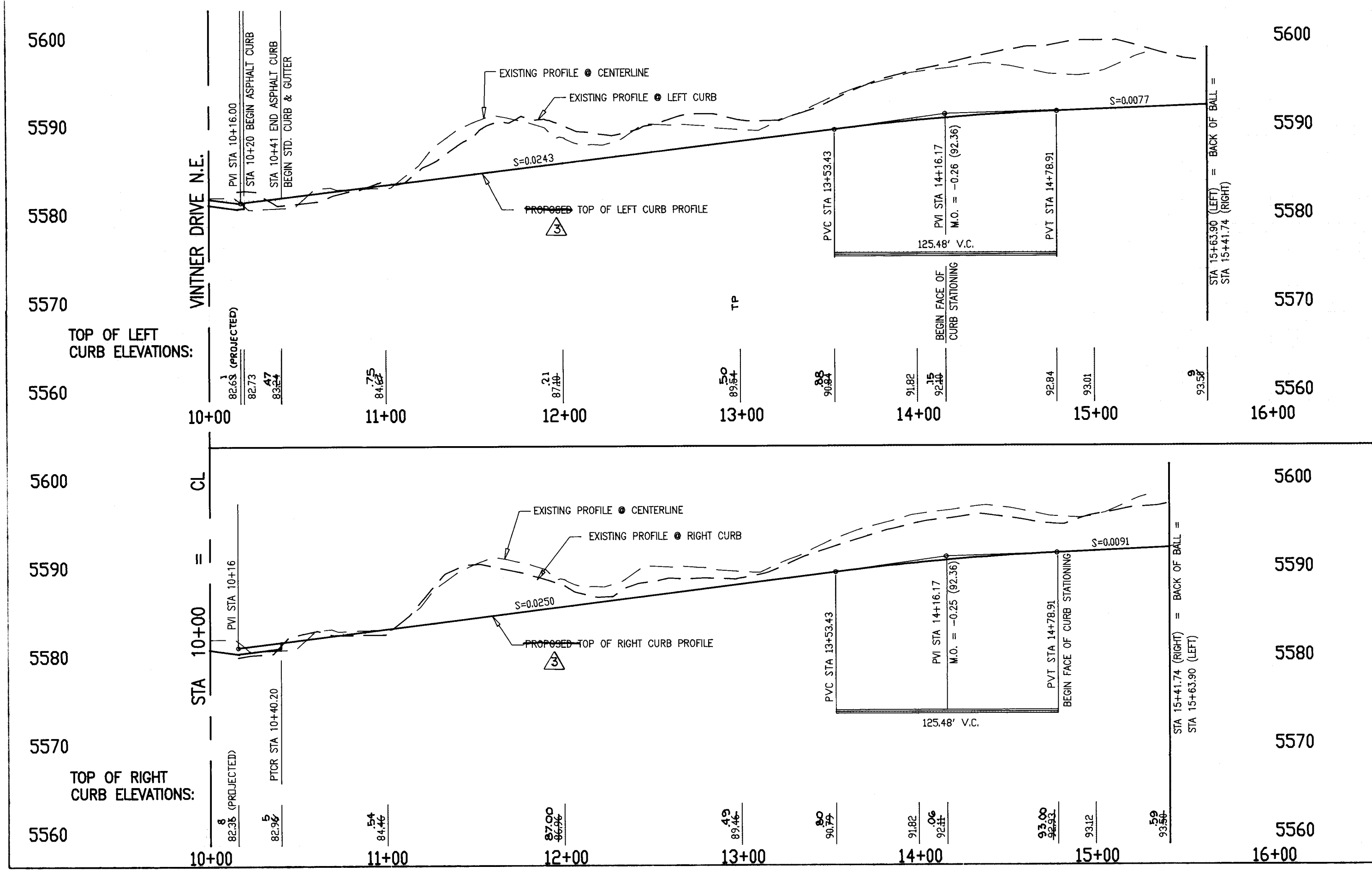
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE			
VINEYARD ESTATES IV STORM DRAIN AND SAS IMPROVEMENTS 20' PUBLIC DRAINAGE AND SANITARY SEWER R.O.W. STA. 10+00 TO STA. 11+59.72			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	R. W. Kane	8-29-94	WATER
TRANSPORTATION	R. W. Kane	8-29-94	WASTE WATER
HYDROLOGY	R. W. Kane	8-29-94	

PROJECT NO. 3391.96 MAP NO. C-20 SHEET 20 OF 34



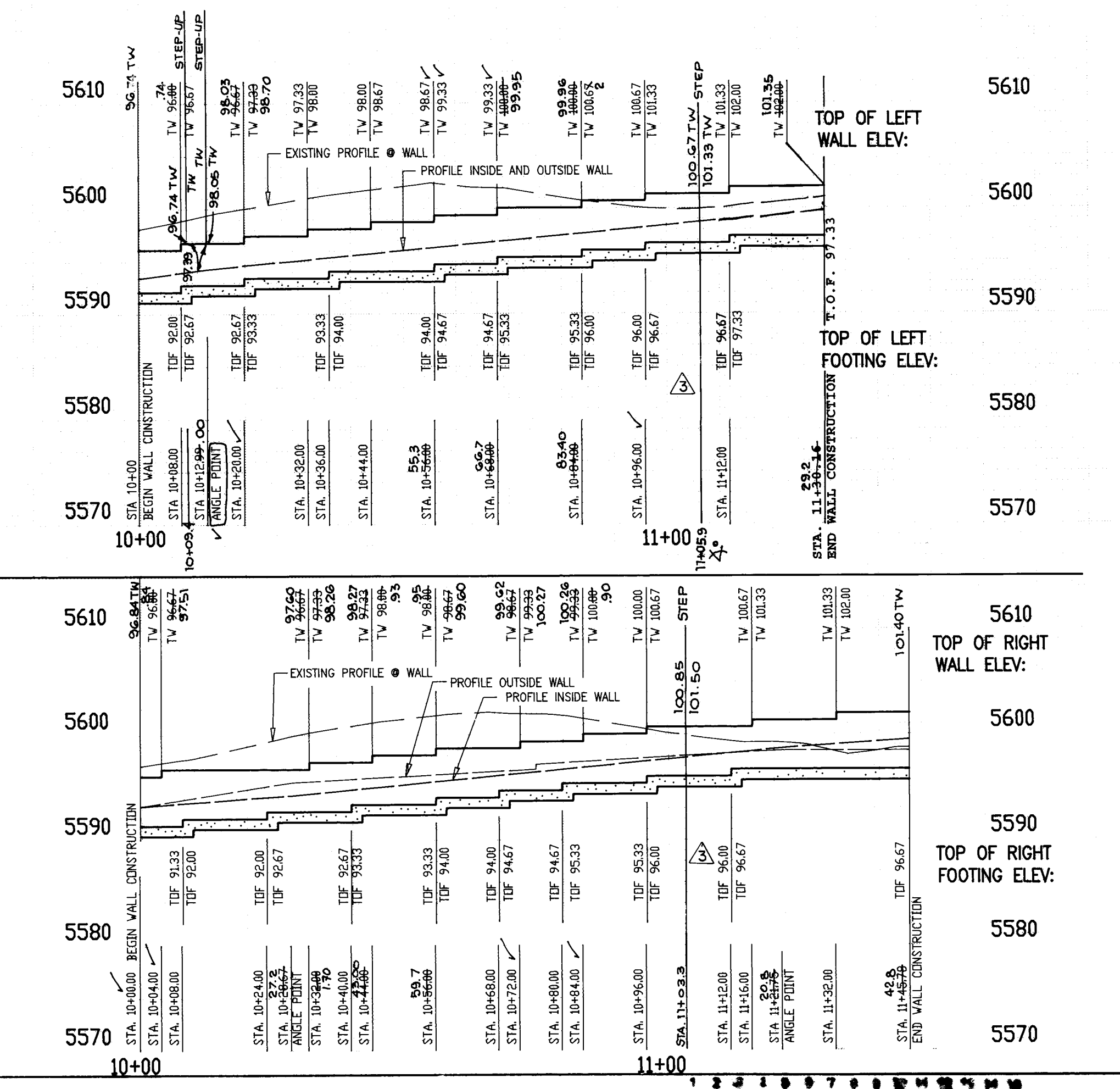
VINTNER COURT N.E.

SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL



RECORD DRAWING
VINTNER COURT DRAINAGE CHANNEL

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



- STREET PAVING IMPROVEMENTS:**
- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING. EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
 - WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 - ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
 - ALL 4" SIDEWALKS SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
 - ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
 - ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
 - UPON COMPLETION OF CONSTRUCTION, THE CITY OF ALBUQUERQUE WILL PROVIDE AND INSTALL ALL STREET SIGNS.
 - STRIPING BY CONTRACTOR WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE.
- STORM DRAIN NOTES:**
- ALL STORM DRAIN TO BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 6' DIAMETER TYPE "C" PER C.O.A. STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
 - ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS OTHERWISE NOTED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE.
- RETAINING WALL NOTES:**
- 8"x8"x16" CMU OF UBC STD. 24-4 OR 24-5.
 - USE KNOCK-OUT BOND BEAM BLOCK AT 4'-0" C.C. VERTICALLY, AND 1 #4 CONTINUOUS.
 - FILL ALL BLOCK CELLS WITH 3000 PSI CONCRETE.
 - REINFORCING TO BE INTERMEDIATE GRADE STEEL. $f_y = 20,000 \text{ psi}$.
 - IN LIEU OF CONTINUOUS KNOCK-OUT BOND BEAMS, CONTRACTOR MAY INSTALL DUR-D-WALL REINFORCING EVERY SECOND COURSE.
 - SPLICE SHALL BE 40 BAR DIAMETER MINIMUM FOR VERTICAL BARS. ALL OTHER SHALL BE 20 BAR DIAMETER, MINIMUM.
 - CONCRETE FILL SHALL BE 21 DAYS OLD PRIOR TO BACKFILLING.
 - ALL STATIONING IS BASED UPON FACE OF WALL.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
MPE No. 9547
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
08-23-99

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

TITLE
VINEYARD ESTATES IV
STORM DRAIN AND PAVING IMPROVEMENTS PLAN AND PROFILE
VINTNER COURT STA 10+00 TO STA 15+80.00
VINTNER COURT DRAINAGE CHANNEL STA 10+00 TO STA 11+45.78

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B. G. Bailey	9-27-99	WATER	N/A	RWL 8-29-99
TRANSPORTATION	B. G. Bailey	9-27-99	WASTE WATER	N/A	RWL 8-29-99
HYDROLOGY	B. G. Bailey	9-27-99			

PROJECT NO. 3391.96 **MAP NO.** C-20 **SHEET** 21 **OF** 34

RECORD DRAWING

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be verified prior to use on final construction.



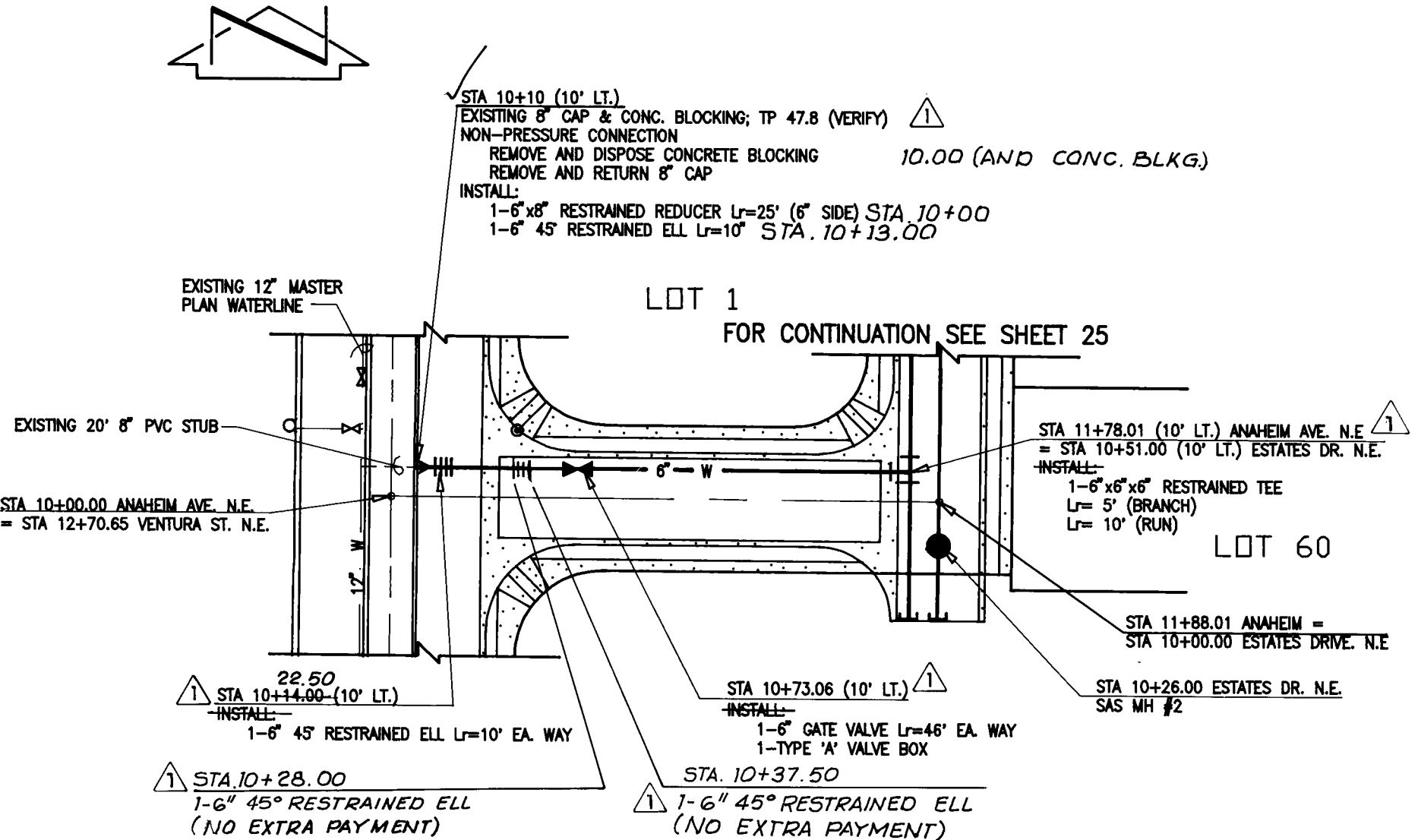
WATERLINE CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
- FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
- WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
- VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.

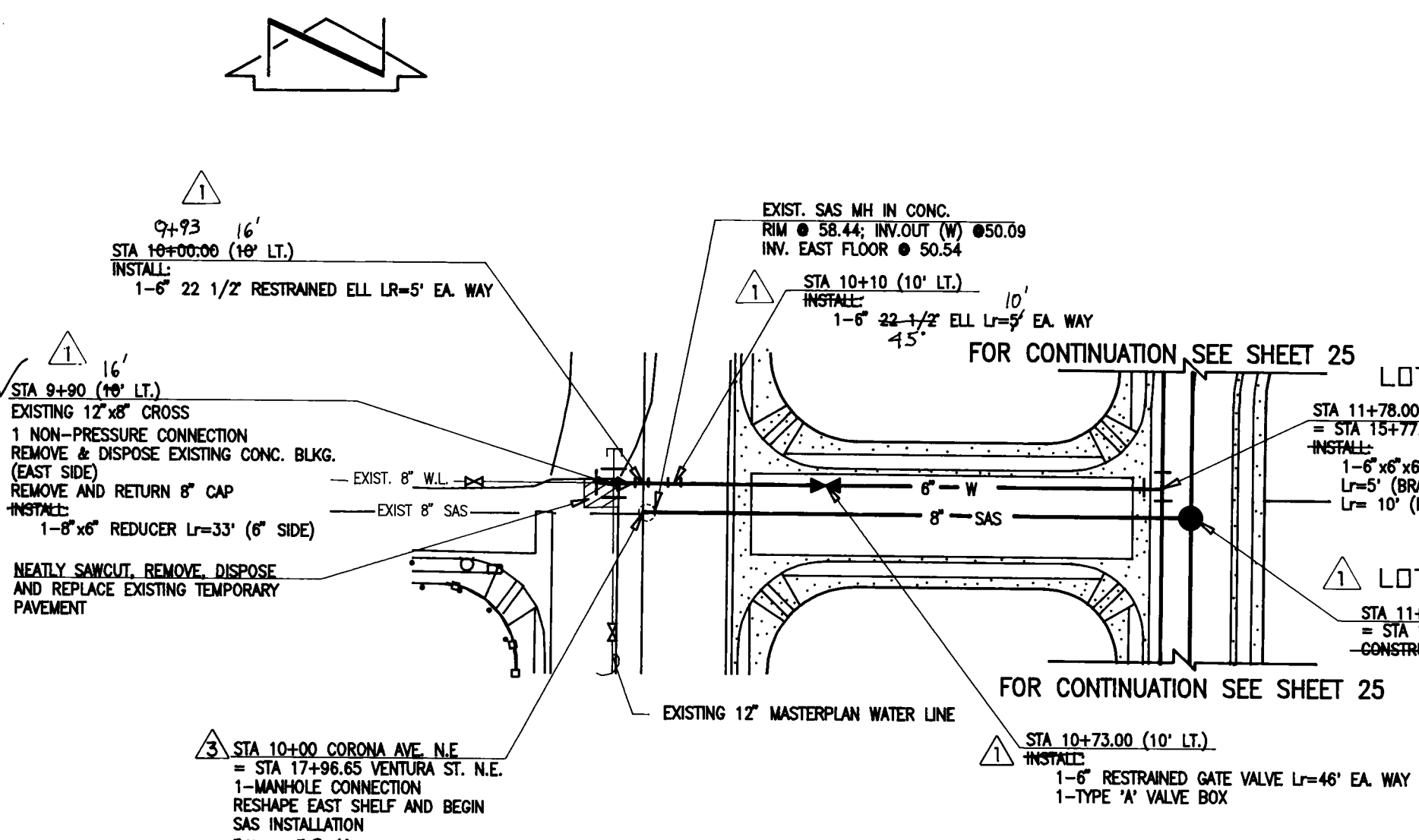
SANITARY SEWER CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
- ALL SEWER PIPE SHALL BE PVC (SDR 35).
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
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- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

AS BUILT INFORMATION				BENCH MARKS			
CONTRACTOR	SPARKLING CONSTRUCTION	DATE	10/94	A STANDARD A.C.S. BRASS TABLET STAMPED "21A-1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND.			
STAMPED BY	JMA	DATE	10/94	ELEVATION	= 5634.84 FEET (MSLD)		
FIELD ACCEPTANCE BY	JMA	DATE	2/95				
FIELD ADJUSTED BY	JMA	DATE	2/95				
DRAWINGS CORRECTED BY	JEW	DATE	2/95				
MICRO-FILM INFORMATION							
RECORDED BY							
NO							

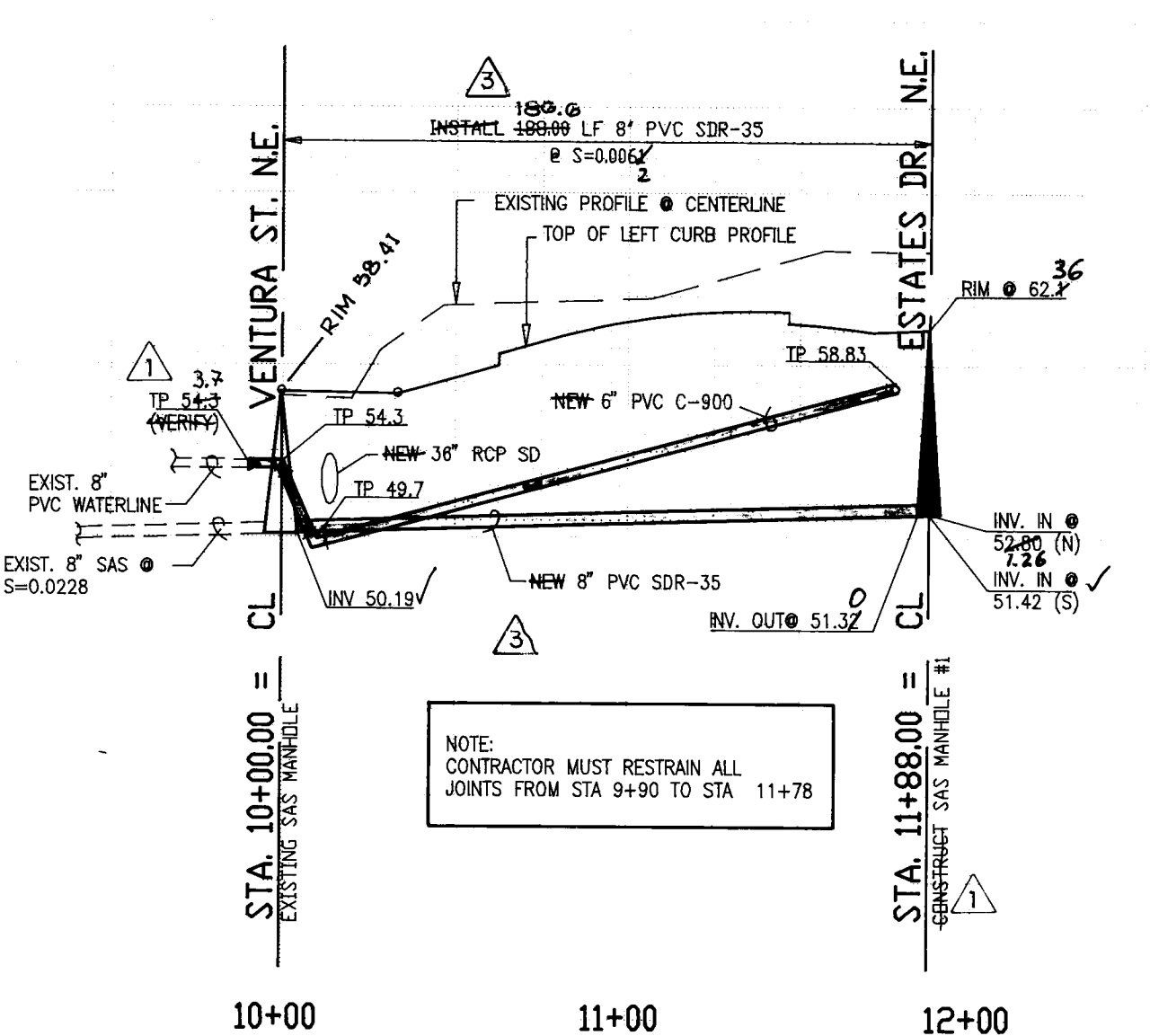
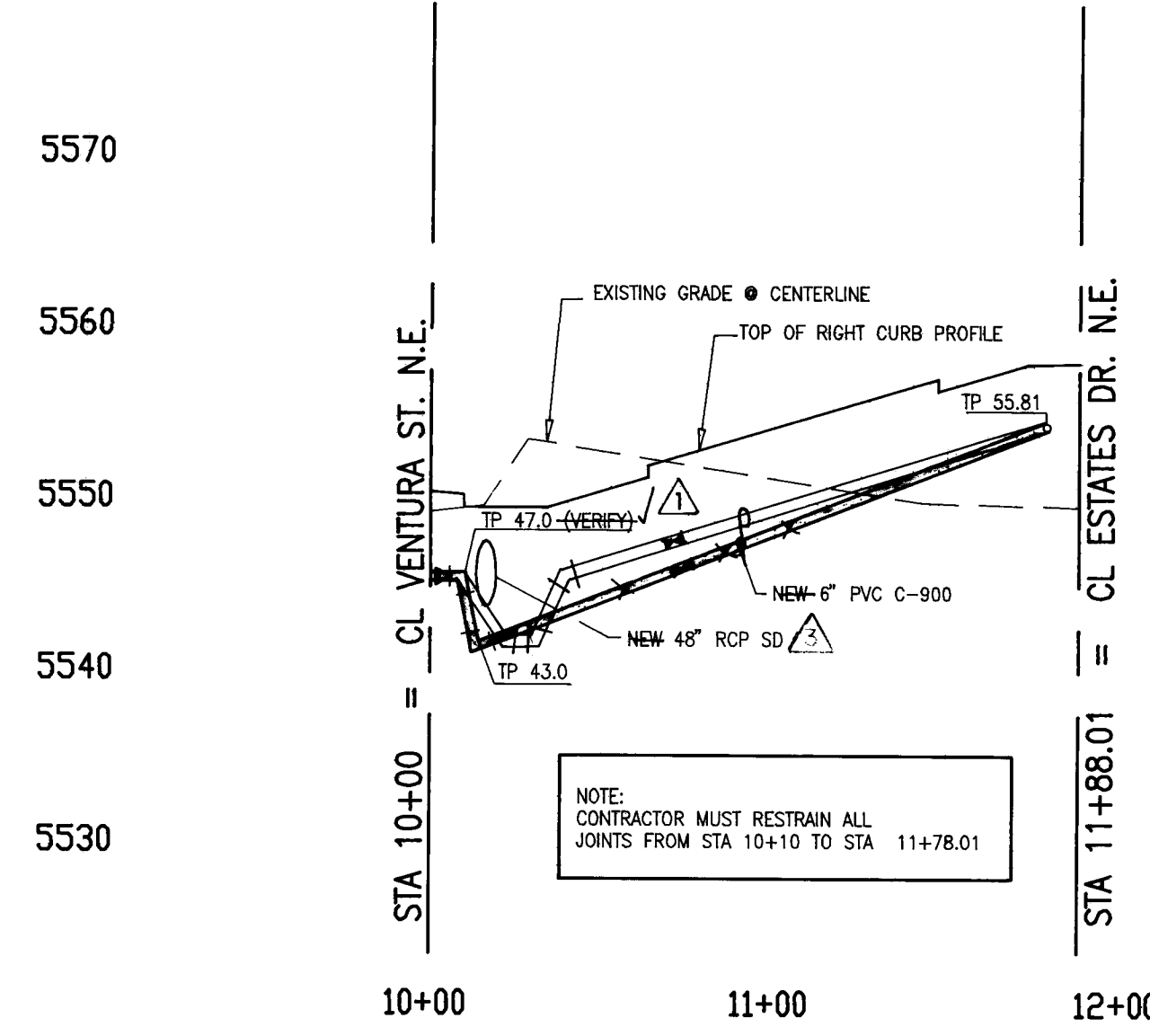


ANAHEIM AVENUE N.E.



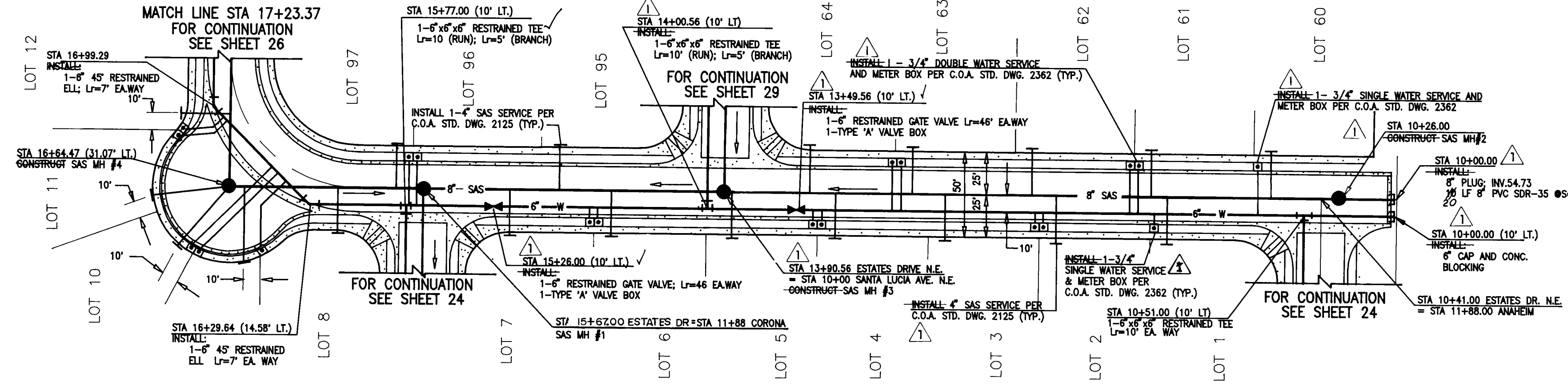
CORONA AVENUE N.E.

SCALE:
1" = 30' HORIZONTAL
1" = 10' VERTICAL



26 3391.96 2495

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE					
VINEYARD ESTATES II WATER AND SANITARY SEWER IMPROVEMENTS PLAN AND PROFILE ANAHEIM AVE. STA 10+00 TO STA 11+78.01 CORONA AVE. STA 9+00.00 TO STA 11+88.00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R.W. Kane	8-22-94	WATER	R.W. Kane	8-22-94
TRANSPORTATION	R.W. Kane	8-22-94	WASTE WATER	R.W. Kane	8-22-94
HYDROLOGY	W.A. JPC	8-22-94			
PROJECT NO.	3391.96	MAP NO.	C-20	SHEET	24 OF 34



RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
No. 8547
Date 08-22-95

SANITARY SEWER SERVICE SCHEDULE

LOT	STATION	INV.	P.L.	SIZE
60	10+70.56	55.90	55.72	4"
01	11+31.00	56.20	56.31	4"
61	11+40.56	56.25	56.27	4"
02	11+96.00	56.53	56.29	4"
62	12+10.56	56.00	57.08	4"
03	12+61.00	56.00	57.08	4"
63	12+80.56	56.90	56.75	4"
04	13+26.00	57.00	56.55	4"
64	13+40.56	57.00	57.20	4"
05	13+86.00	57.20	56.25	4"
06	14+57.00	57.50	56.35	4"
85	14+88.06	57.75	57.48	4"
07	15+17.00	58.00	57.30	4"
96	15+63.06	58.10	58.10	NO DATA AVAILABLE
97	15+83.06	58.30	59.11	4"
08	16+02.00	58.80	58.70	4"
10	AS SHOWN	59.00	59.67	4"
11	AS SHOWN	60.00	60.18	4"
12	AS SHOWN	61.00	61.32	4"

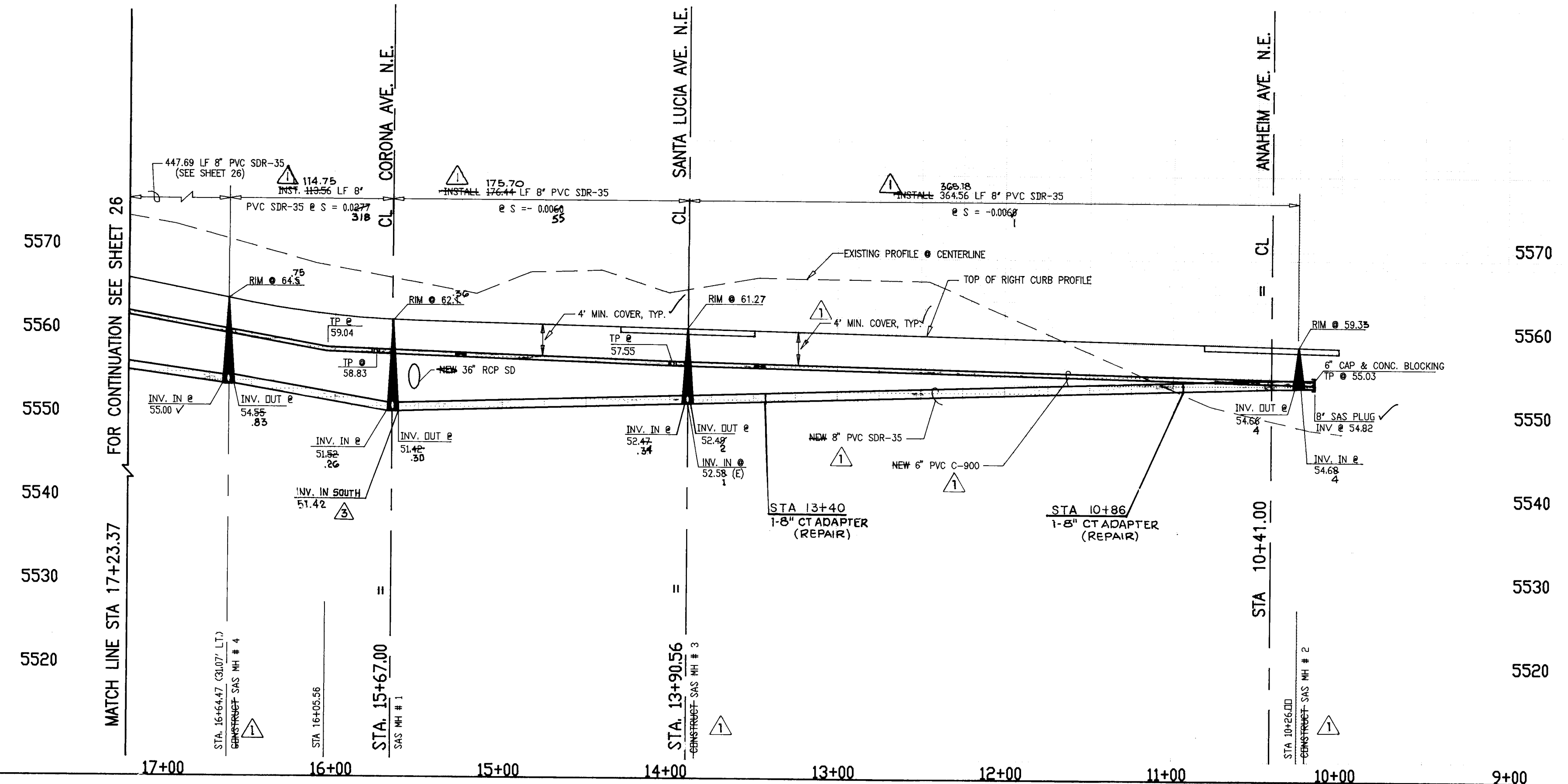
WATER SERVICE SCHEDULE

LOT	STATION	TYPE	SIZE
✓60	10+78.56	SGL	3/4"
✓01	11+38.00	SGL	3/4"
✓61/62	11+50.56	DBL	3/4"
✓02/03	12+06.00	DBL	3/4"
✓63/64	12+90.56	DBL	3/4"
✓04/05	13+36.00	DBL	3/4"
✓06/07	14+67.00	DBL	3/4"
✓97/98	15+73.06	DBL	3/4"
08	AS SHOWN	SGL	3/4"
09/10	AS SHOWN	DBL	3/4"
11/12	AS SHOWN	DBL	3/4"

RECORD DRAWING

ESTATES DRIVE N.E.

SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL



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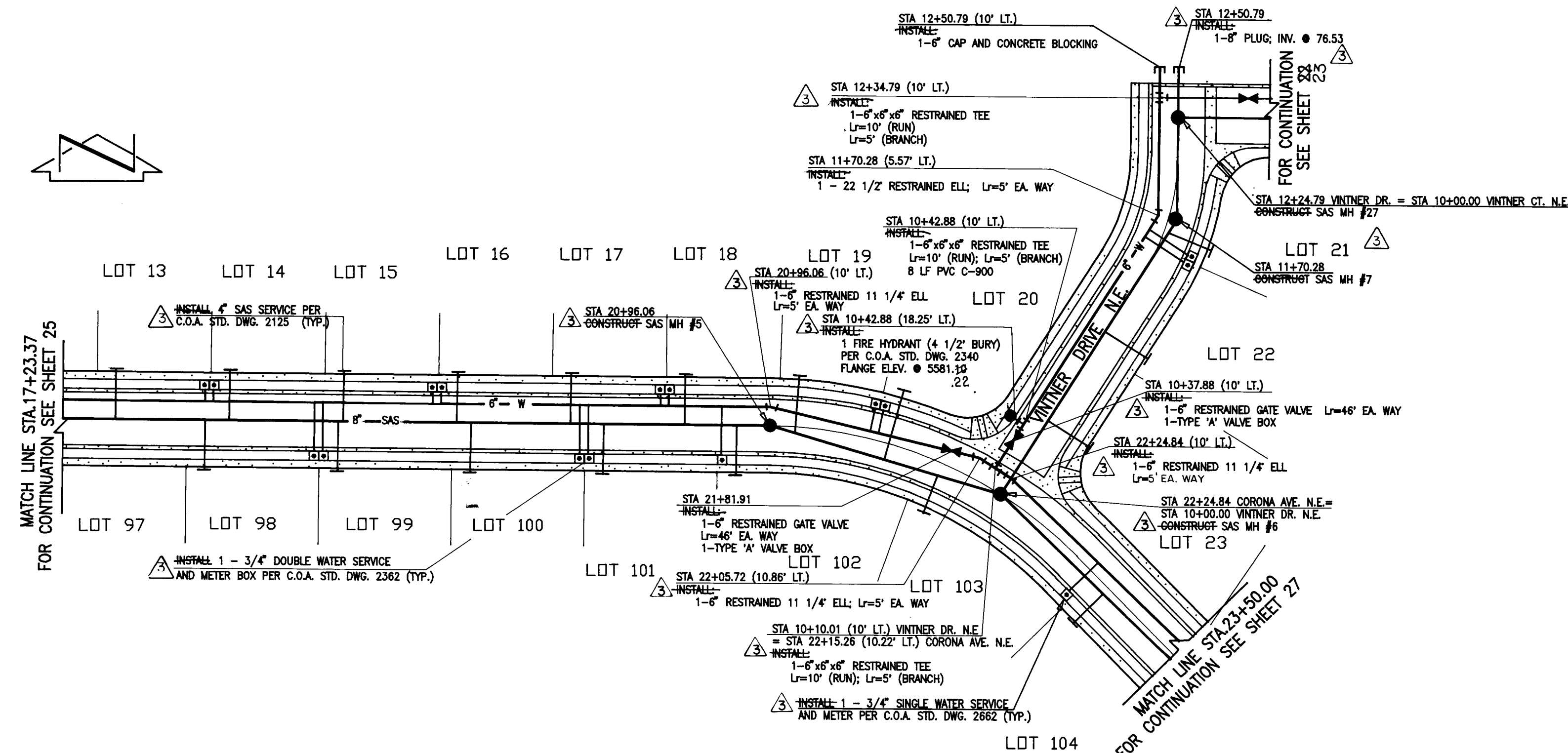
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: VINEYARD ESTATES II
SANITARY SEWER AND WATERLINE IMPROVEMENTS PLAN AND PROFILE
ESTATES DRIVE N.E. STA. 10+16.00 TO STA. 17+23.37

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.P. Ambler	9-27-94	WATER	R.W. Kane	8-29-94
TRANSPORTATION	W.C. Cho	9-02-94	WASTE WATER	R.W. Kane	8-29-94
HYDROLOGY	W.A. JAC	8-29-94			

PROJECT NO. 3391.96 MAP NO. C-20 SHEET 25 OF 34

RECORD DRAWING

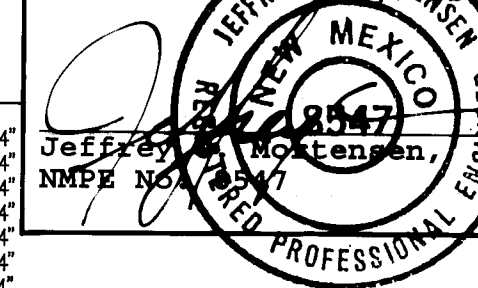


CORONA AVENUE NE.

VINTNER DRIVE N.E.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



LOT	STATION	INV.	P.L.	SIZE
13	17+51.06	64.00	1	4"
98	17+98.37	65.98	65.11	4"
14	18+11.06	65.80	65.75	4"
99	18+58.37	67.20		4"
15	18+71.06	67.50	67.42	4"
16	19+31.06	68.80	68.83	4"
100	19+38.37	69.00	69.19	4"
17	19+91.06	70.20	70.31	4"
101	20+08.37	70.80		4"
102	20+78.37	71.80	72.31	4"
19	21+09.59	73.20		4"
20	21+59.20	74.40	74.63	4"
103	21+80.85	75.20	75.14	4"
104	23+00.70	77.30	77.11	4"
23	10+45.50	76.20	76.30	4"
22	11+01.62	77.90	77.15	4"
21	11+62.42	77.40	77.29	4"

LOT	STATION	TYPE	SIZE
13/14	18+01.06	DBL	3/4"
98/99	18+58.37	DBL	3/4"
15/16	19+21.06	DBL	3/4"
100/101	19+98.37	DBL	3/4"
17/18	20+41.06	DBL	3/4"
102	20+70.37	SG	3/4"
19/20	21+50.17	DBL	3/4"
103	22+88.70	SG	3/4"
21/22	11+54.14	DBL	3/4"

SCALE:
1" = 30' HORIZONTAL
1" = 10' VERTICAL

WATERLINE CONSTRUCTION NOTES:

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SANITARY SEWER CONSTRUCTION NOTES:

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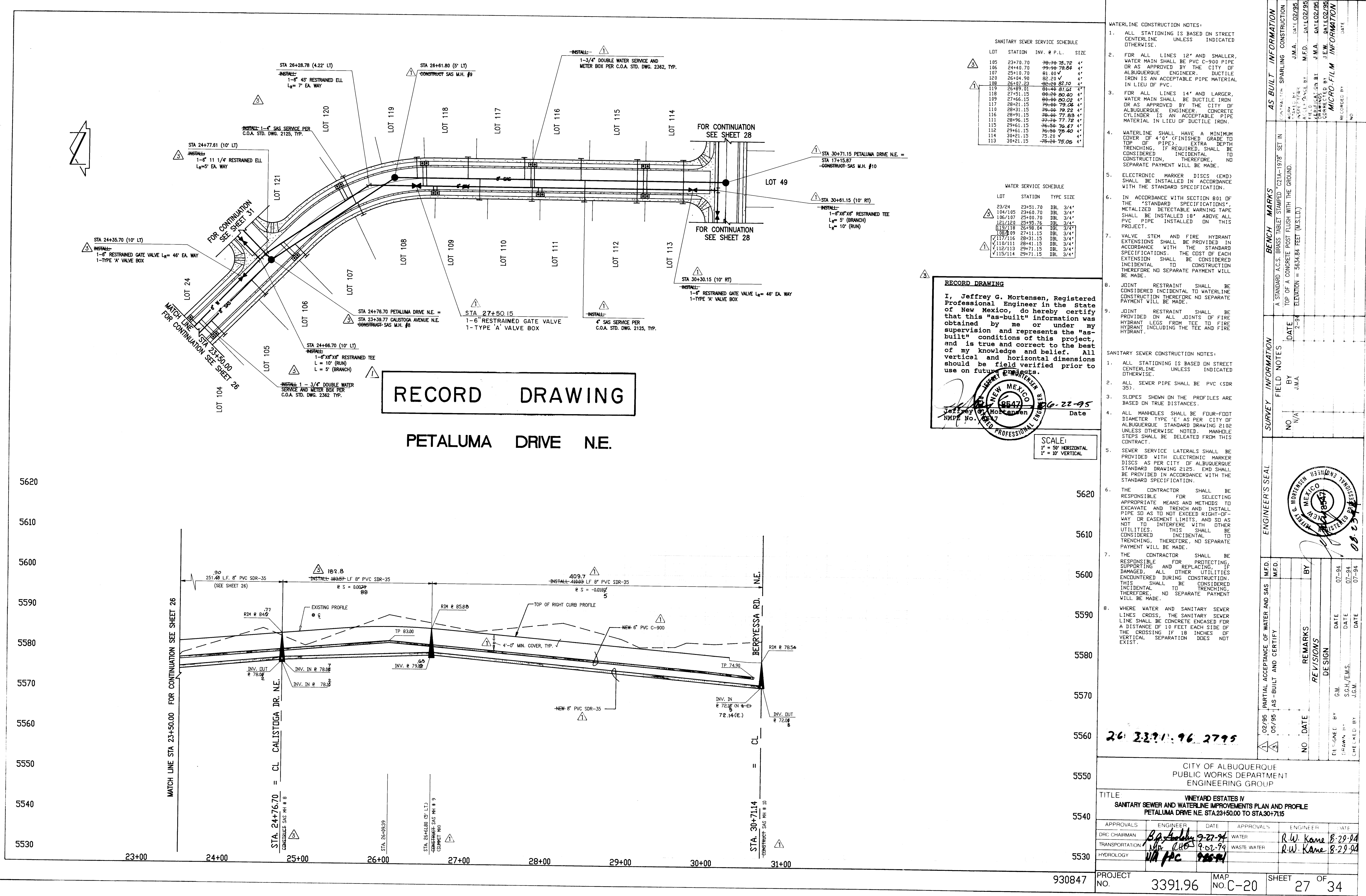
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: VINEYARD ESTATES IV
SANITARY SEWER AND WATERLINE IMPROVEMENTS PLAN AND PROFILE
CORONA AVE. N.E. STA.17+23.37 TO STA.23+50.00
VINTNER DR. N.E. STA.10+00.00 TO STA.12+50.79

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B.G. Smith	9-27-94	WATER	R.W. Kane	8-29-94
TRANSPORTATION	W.R. Kane	9-01-94	WASTE WATER	R.W. Kane	8-29-94
HYDROLOGY	W.R. Kane	9-01-94			

PROJECT NO.	MAP NO.	SHEET OF
930847	3391.96	C-20 26 34



SANITARY SEWER SERVICE SCHEDULE

LOT	STATION	INV. @ P.L.	SIZE
105	23+70.70	70+70 78.72	4"
106	24+40.70	79+00 78.84	4"
107	25+10.70	81+00 79.00	4"
108	26+04.90	82+20 79.12	4"
109	26+07.23	82+20 79.12	4"
110	26+09.01	82+20 79.12	4"
111	27+51.15	80+00 80.40	4"
112	27+56.15	80+00 80.40	4"
113	28+21.15	79+00 79.04	4"
114	28+31.15	79+00 79.12	4"
115	28+91.15	78+00 77.83	4"
116	28+96.15	77+00 77.72	4"
117	29+61.15	76+00 76.47	4"
118	29+61.15	76+00 76.47	4"
119	30+21.15	75+20 75.20	4"
120	30+21.15	75+20 75.05	4"

WATER SERVICE SCHEDULE

LOT	STATION	TYPE SIZE
23/24	23+51.70	DBL 3/4"
104/105	23+60.70	DBL 3/4"
106/107	25+00.70	DBL 3/4"
121/122	25+08.76	DBL 3/4"
119/118	26+08.04	DBL 3/4"
108/109	27+11.15	DBL 3/4"
117/116	28+31.15	DBL 3/4"
110/111	28+41.15	DBL 3/4"
112/113	29+71.15	DBL 3/4"
115/114	29+71.15	DBL 3/4"

RECORD DRAWING

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Jeffrey G. Mortensen
N.M.P.E. No. 9547
Date 06-22-95

SCALE:
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1" = 10' VERTICAL

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26 2271 96 2795

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: VINEYARD ESTATES IV
SANITARY SEWER AND WATERLINE IMPROVEMENTS PLAN AND PROFILE
PETALUMA DRIVE N.E. STA. 23+50.00 TO STA. 30+71.15

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	8/22/94	7-27-94	WATER	R.W. Kane	8-29-94
TRANSPORTATION	8/22/94	7-27-94	WASTE WATER	R.W. Kane	8-29-94
HYDROLOGY	8/22/94	7-27-94			

REVISIONS	DATE	BY	DATE	BY
DESIGN	07-94		07-94	

NO.	DATE	REMARKS
1	02/95	PARTIAL ACCEPTANCE OF WATER AND SANITARY SEWER
2	05/95	AS-BUILT AND CERTIFY

PROJECT NO. 930847 MAP NO. C-20 SHEET 27 OF 34

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

	LOT	STATION	INV. @ P.L.	SIZE
<i>10+77.87</i>	58	10+57.87	59.80	59.89 4'
	59	11+25.87	60.40	59.89 4'
	57	11+45.87	64.55	67.80 4'
	56	12+13.87	61.10	66.31 4'
	35	12+81.87	62.20	67.15 4'
	54	13+49.87	64.16	64.99 4'
	53	14+17.87	66.06	65.77 4'
	52	14+85.87	68.00	67.44 4'
	51	15+55.87	70.00	70.11 4'
	50	16+25.87	72.00	72.05 4'
	48	16+95.87	74.00	72.05 4'
	47	17+65.87	76.00	72.10 4'
	46	18+35.87	78.00	77.82 4'
	44	19+05.87	80.00	79.64 4'

LOT	STATION	TYPE	SIZE
58/59	10+67.87	DBL	3/4"
57/56	12+03.87	DBL	3/4" ✓
55/54	13+39.87	DBL	3/4" ✓
53/52	14+75.87	DBL	3/4" ✓
51/50	16+15.87	DBL	3/4" ✓
49/48	17+55.87	DBL	3/4" ✓
47/46	18+95.87	DBL	3/4" ✓

1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.

WATER MAIN SHALL BE PVC C-900 PIPE
OR AS APPROVED BY THE CITY OF
ALBUQUERQUE ENGINEER. DUCTILE
IRON IS AN ACCEPTABLE PIPE MATERIAL
IN LIEU OF PVC.

3. FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.

4. WATERLINE SHALL HAVE A MINIMUM COVER OF 4'0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

5. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.

6. IN ACCORDANCE WITH SECTION 801 OF THE 'STANDARD SPECIFICATIONS', METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18' ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.

7. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.

8. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.

9. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.

SANITARY SEWER CONSTRUCTION NOTES:

1. ALL STATIONING IS BASED ON STREET
CENTERLINE UNLESS INDICATED
OTHERWISE

2. ALL SEWER PIPE SHALL BE PVC (SDR 35).

3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.

4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.

5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

8. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

26 3391.96 2895

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE **VINEYARD ESTATES IV
SANITARY SEWER AND WATERLINE IMPROVEMENTS PLAN AND PROFILE
BERRYVESSA ROAD STA 10+00 TO STA 19+95.87**

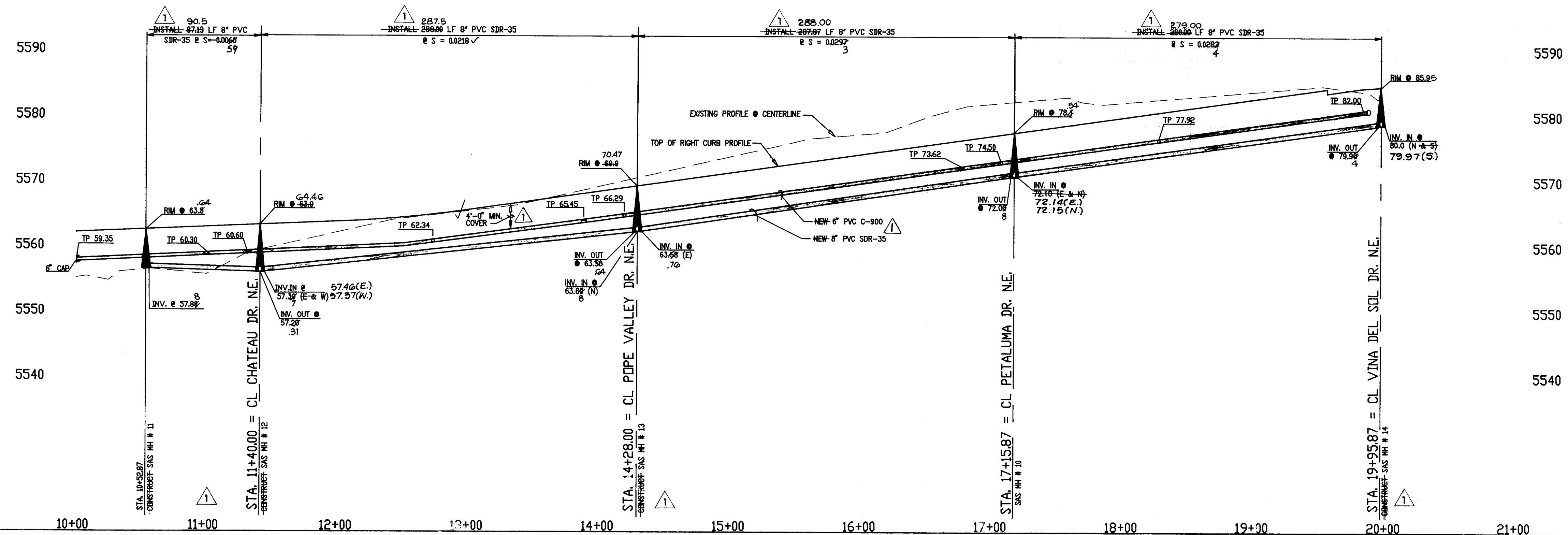
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R.W. Kane</i>	9-27-94	WATER	<i>R.W. Kane</i>	8-29-94
TRANSPORTATION	<i>N/A LHO</i>	9-02-94	WASTE WATER	<i>R.W. Kane</i>	8-29-94
HYDROLOGY	<i>N/A APC</i>	9-28-94			

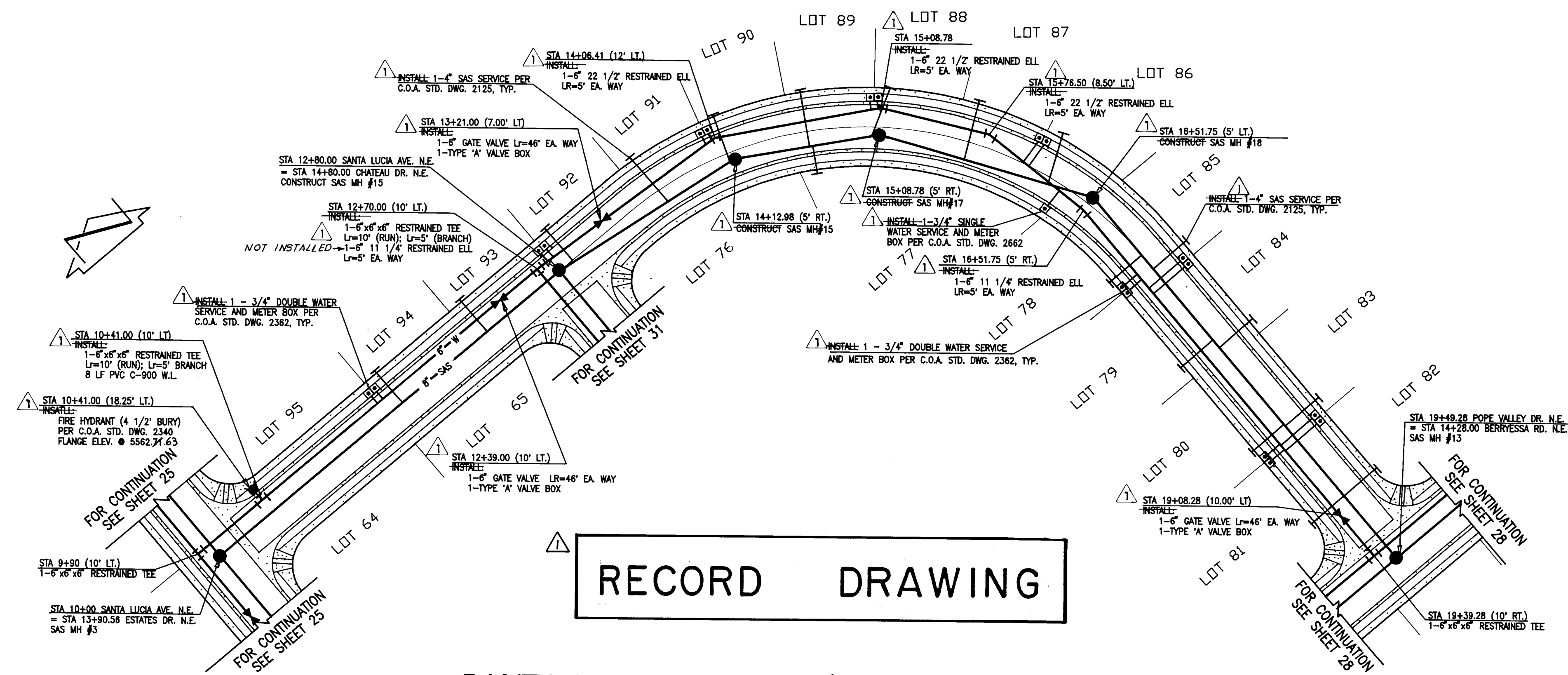
PROJECT NO.	3391.96	MAP NO.	C-20	SHEET	28	OF	34
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RECORD DRAWING

BERRYESSA ROAD N.E.

SCALE:
1' = 50' HORIZONTAL
1' = 10' VERTICAL





RECORD DRAWING

SANTA LUCIA AVE. N.E. / POPE VALLEY DR. N.E.

1. SANITARY SEWER SERVICE SCHEDULE

LOT	STATION	INV.	P.L.	SIZE
94	11+50.00	60.90	60.19	4"
93	11+20.00	62.50		4" - NOT MEASURED
92	12+90.00	64.10	64.08	4"
91	13+57.82	66.00	66.70	4"
90	14+10.44	67.20	66.84	4"
89	14+61.86	68.50	68.73	4"
77	14+64.72	68.50	67.93	4"
88	15+17.77	70.00	70.59	4"
87	15+64.68	71.00	71.01	4"
86	16+16.09	72.00	71.71	4"
78	16+59.28	74.00	70.38	4"
85	17+09.28	70.00	70.52	4"
79	17+59.28	68.00	69.62	4"
84	17+74.28	68.00	69.40	4"
80	18+39.28	68.00	67.75	4"
83	18+39.28	68.00	68.26	4"
81	18+09.28	67.10	67.65	4"
82	18+99.28	67.10	67.17	4"

2. WATER SERVICE SCHEDULE

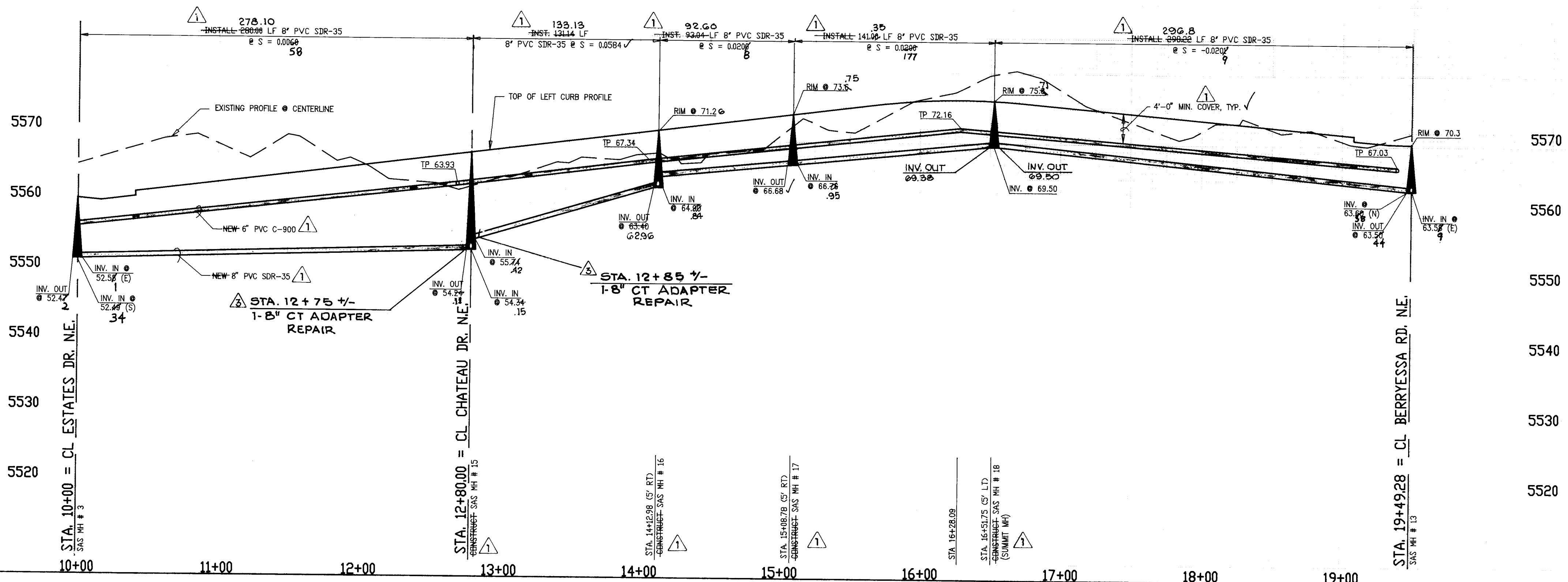
LOT	STATION	TYPE	SIZE
95/94	11+40.00	DBL	3/4"
93/92	12+80.00	DBL	3/4"
91/90	14+01.42	DBL	3/4"
89/88	15+04.25	DBL	3/4"
87/86	16+07.07	DBL	3/4"
85/84	17+19.28	DBL	3/4"
83/82	18+49.28	DBL	3/4"
81/80	18+49.28	DBL	3/4"
79/78	17+09.28	DBL	3/4"
77/76	16+28.97	SGL	3/4"

3. RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
New Mexico
08547
20-22-95

SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL



- WATERLINE CONSTRUCTION NOTES:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 - FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
 - FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
 - WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 - IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS" METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
 - VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 - JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 - JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.

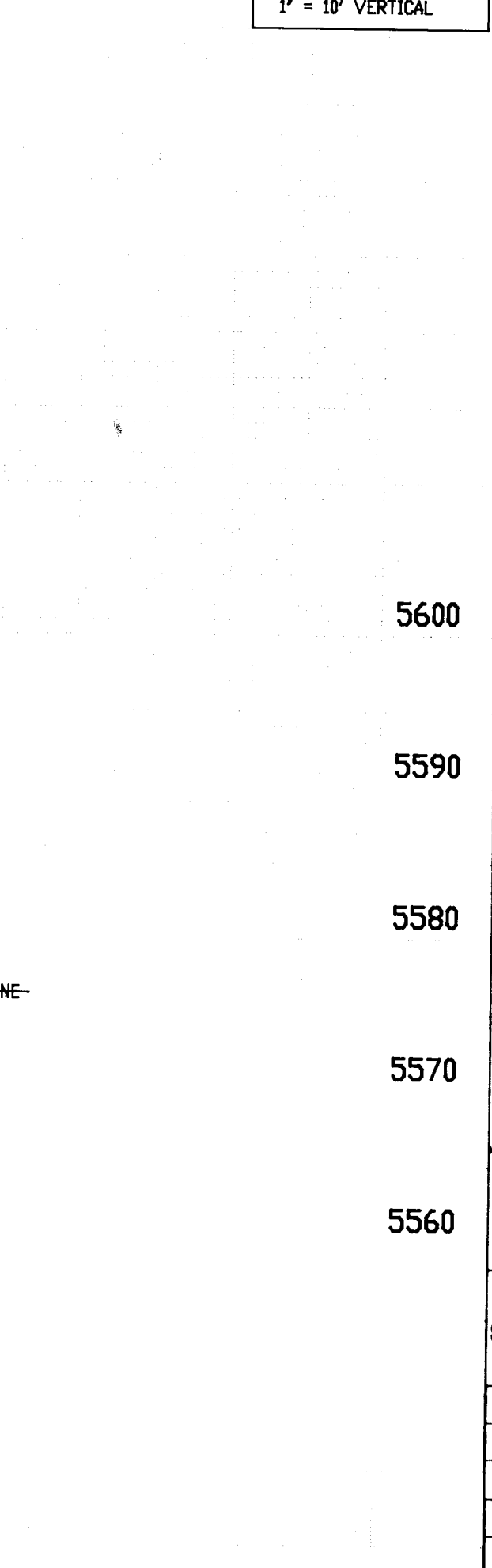
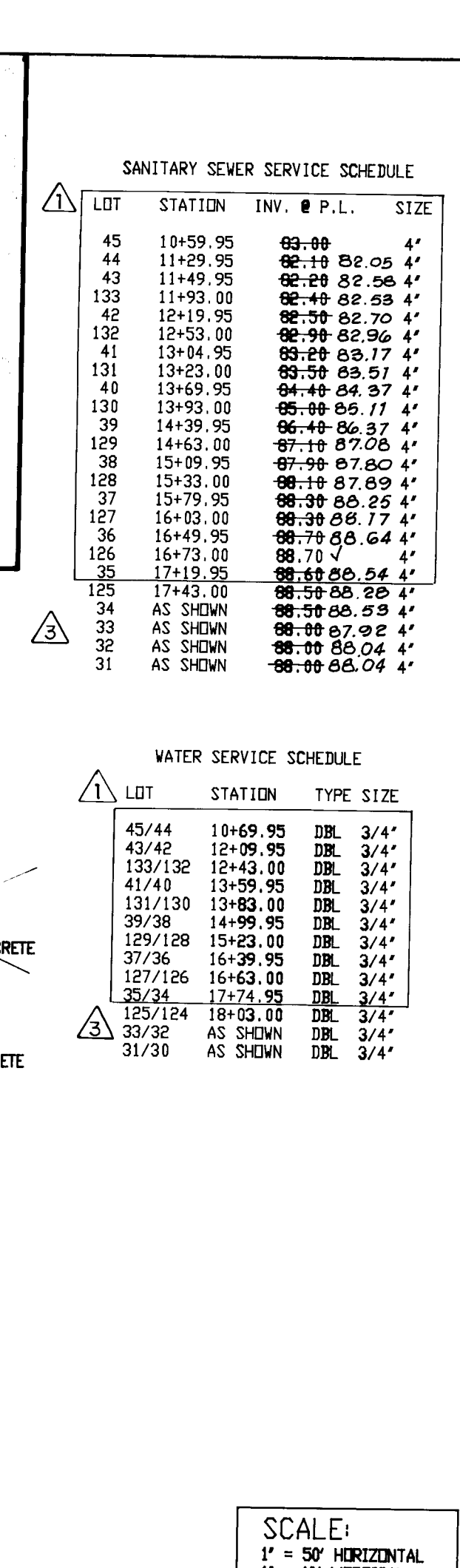
- SANITARY SEWER CONSTRUCTION NOTES:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 - ALL SEWER PIPE SHALL BE PVC (SDR 35).
 - SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
 - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
 - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

26 3391.96 2995

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:			
VINEYARD ESTATES IV SANITARY SEWER AND WATERLINE IMPROVEMENTS PLAN AND PROFILE SANTA LUCIA AVE/POPE VALLEY DRIVE STA.10+00 TO STA.19+49.28			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	R. W. Kane	8-29-94	WATER
TRANSPORTATION	R. W. Kane	8-29-94	WASTE WATER
HYDROLOGY	W. J. P. C.	8-29-94	
PROJECT NO.	MAP NO.	SHEET	OF
930847	C-20	29	34

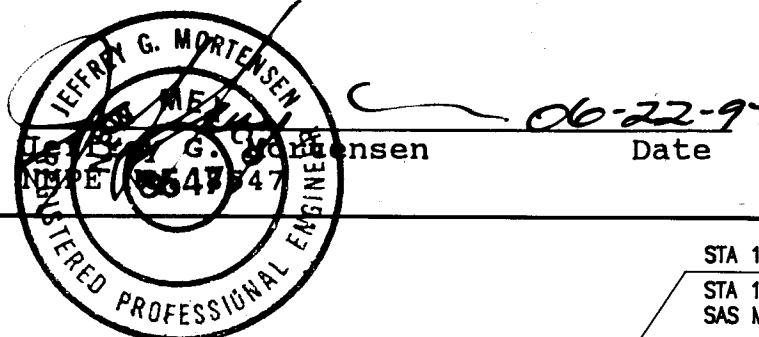
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		PARTIAL ACCEPTANCE OF WATER AND SAN	
DATE	10/94	DATE	10/94	DATE	10/94	DATE	10/94	DATE	10/94
BY	J.M.A.	BY	J.M.A.	BY	J.M.A.	BY	J.M.A.	BY	J.M.A.
REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS	
NO.		NO.		NO.		NO.		NO.	
DATE		DATE		DATE		DATE		DATE	
DESIGNED BY	G.M.	DESIGNED BY	G.M.	DESIGNED BY	G.M.	DESIGNED BY	G.M.	DESIGNED BY	G.M.
DRAWN BY	S.G.H.	DRAWN BY	S.G.H.	DRAWN BY	S.G.H.	DRAWN BY	S.G.H.	DRAWN BY	S.G.H.
CHECKED BY	J.C.M.	CHECKED BY	J.C.M.	CHECKED BY	J.C.M.	CHECKED BY	J.C.M.	CHECKED BY	J.C.M.



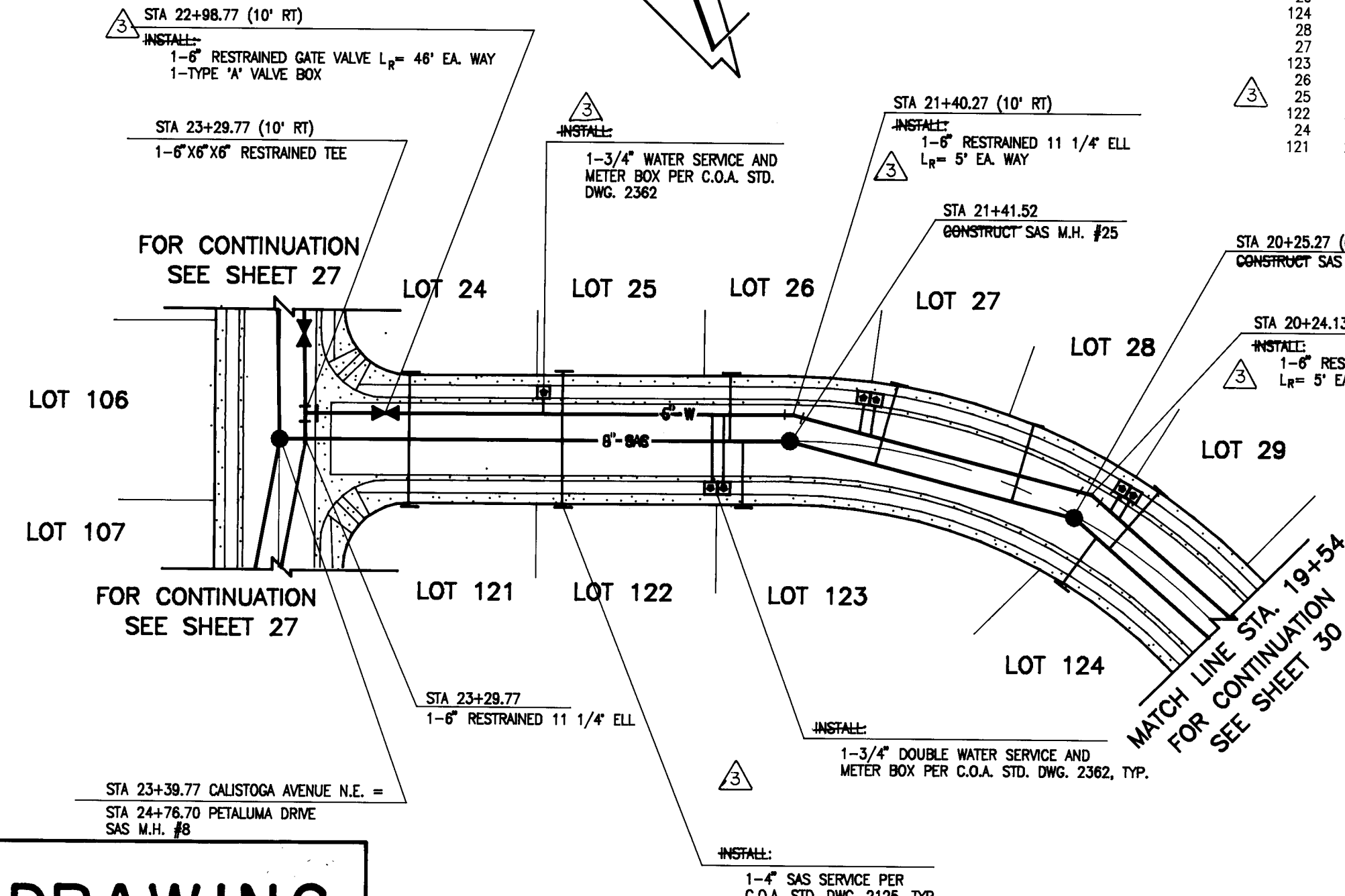
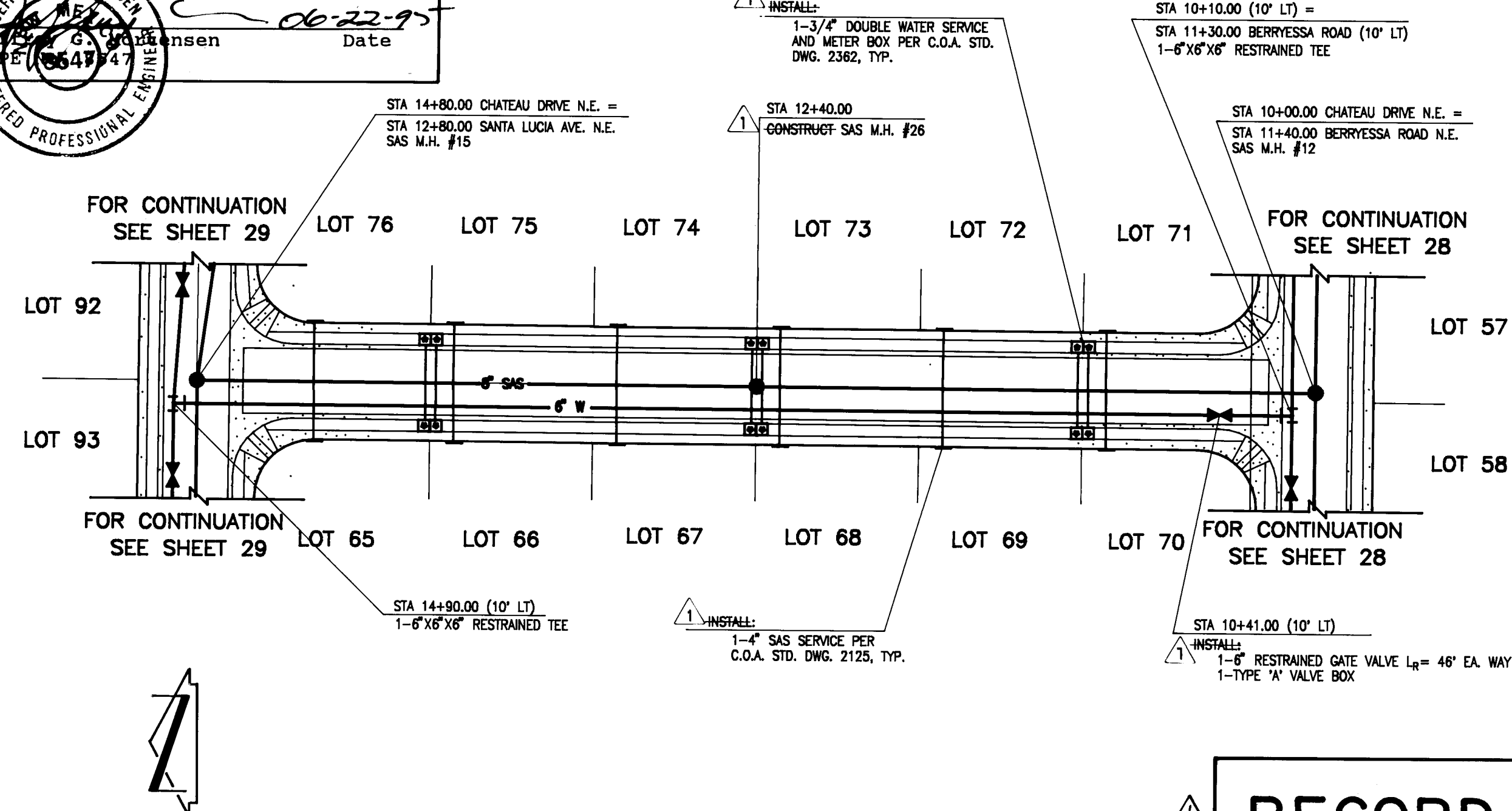
WATERLINE CONSTRUCTION NOTES:		AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
		CONTRACT NO.		DATE		FIELD NOTES		NO.		BY		DATE	
		CONTRACT NO.		DATE		FIELD NOTES		NO.		BY		DATE	
1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.		CONTRACT NO. 1978-1978		DATE 02/29/94		A STANDARD A.C.S. BRASS TABLET STAMPED "21A-1978" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND.		NO. 2-94		BY J.M.A.		DATE 07-94	
2. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.		CONTRACT NO. 1978-1978		DATE 02/29/94		ELEVATION = 5634.84 FEET (M.S.L.D.)		NO. N/A		BY J.M.A.		DATE 07-94	
3. FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
4. WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
5. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
6. IN ACCORDANCE WITH SECTION 801 OF THE 'STANDARD SPECIFICATIONS', METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
7. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THEREFORE NO SEPARATE PAYMENT WILL BE MADE.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
8. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION. THEREFORE NO SEPARATE PAYMENT WILL BE MADE.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
9. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
SANITARY SEWER CONSTRUCTION NOTES:		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
2. ALL SEWER PIPE SHALL BE PVC (SDR 35).		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2129. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	
8. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.		CONTRACT NO. 1978-1978		DATE 02/29/94				NO. N/A		BY J.M.A.		DATE 07-94	

RECORD DRAWING

I, Jeffrey S. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



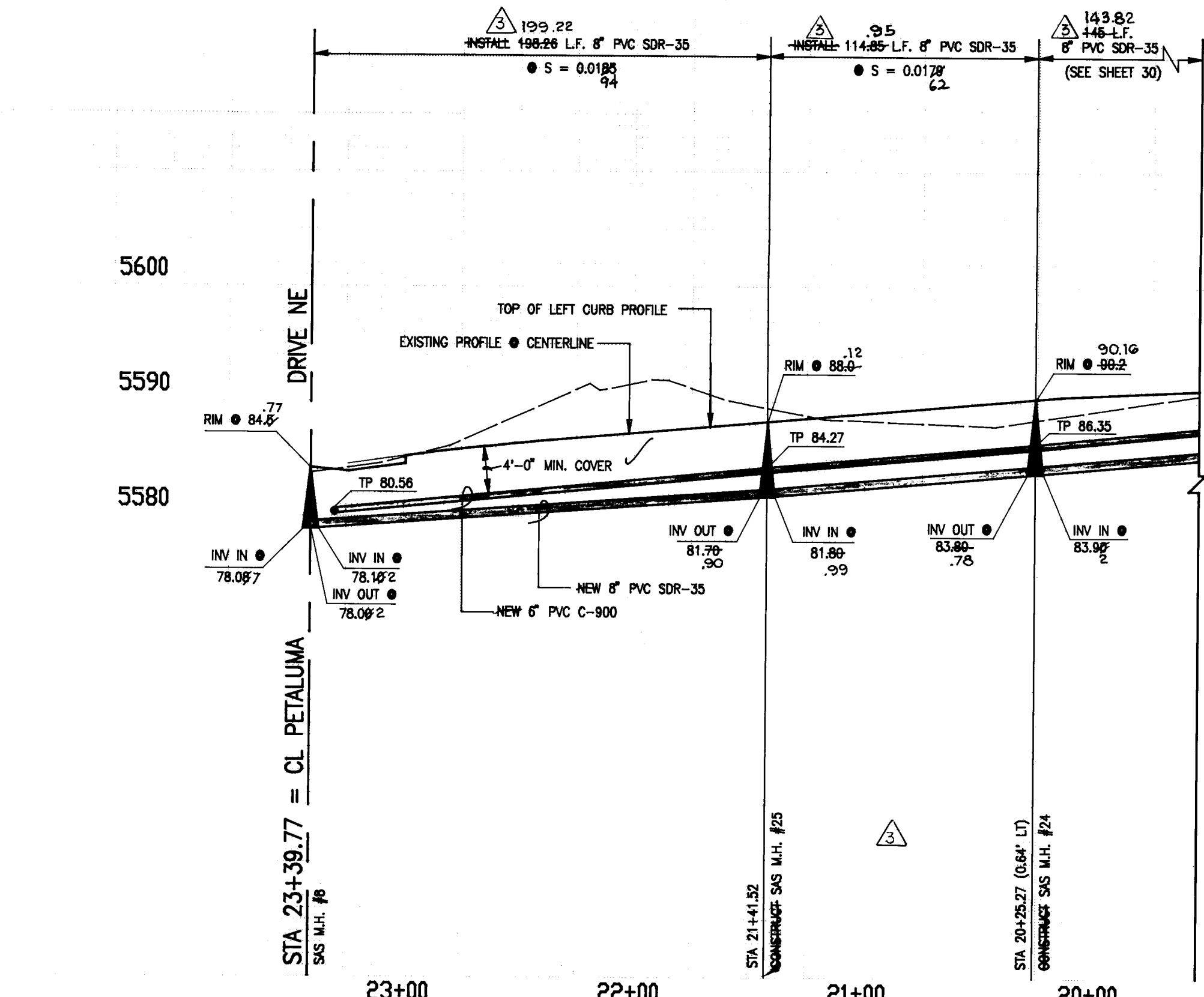
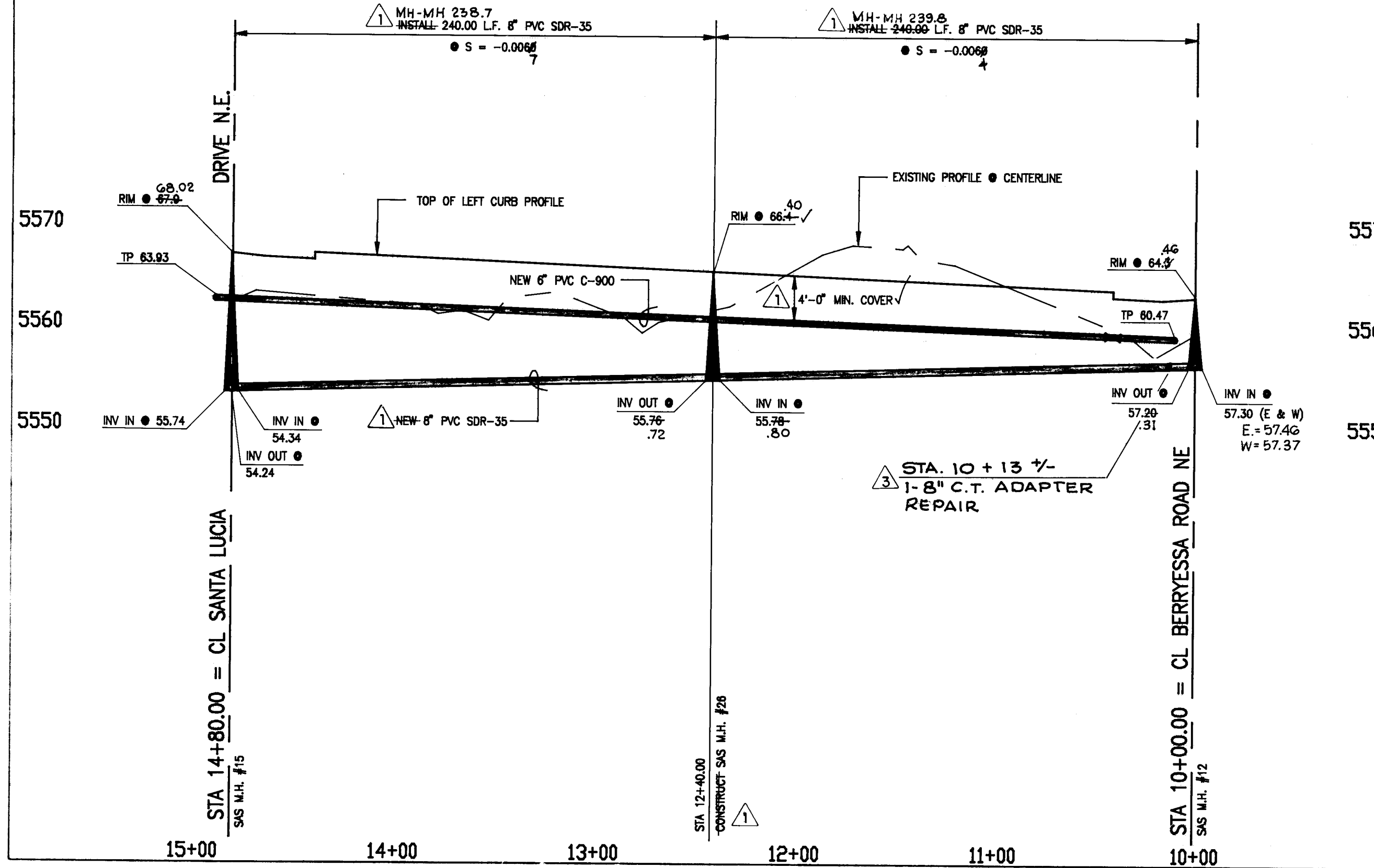
06-22-95
Date



RECORD DRAWING

CHATEAU DRIVE N.E. CALISTOGA AVENUE N.E.

SCALE:
1" = 30' HORIZONTAL
1" = 10' VERTICAL



- WATERLINE CONSTRUCTION NOTES:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 - FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
 - FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
 - WATERLINE SHALL HAVE A MINIMUM COVER OF 4' (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 - IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
 - VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 - JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 - JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.

- SANITARY SEWER CONSTRUCTION NOTES:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 - ALL SEWER PIPE SHALL BE PVC (SDR 35).
 - SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
 - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
 - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

26 3391.96 3195

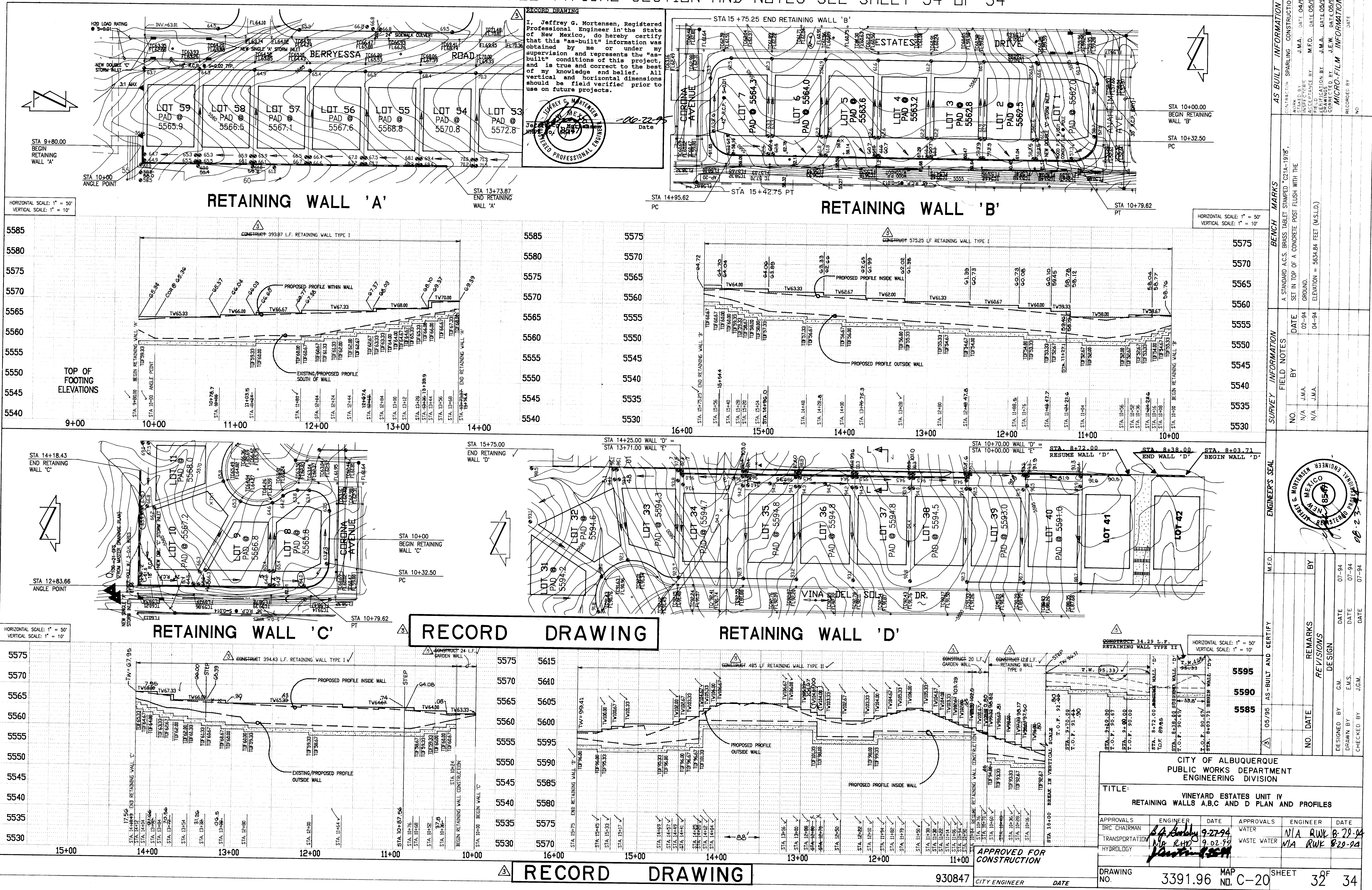
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

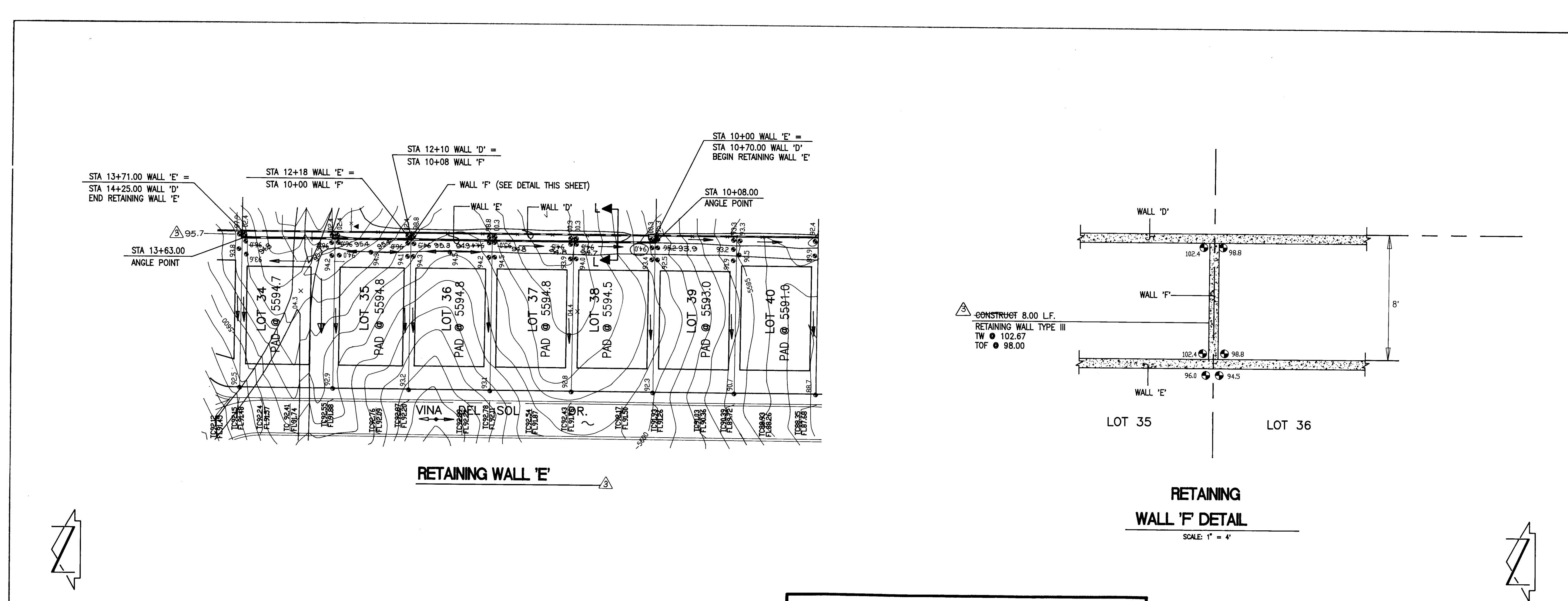
TITLE			
VINEYARD ESTATES IV SANITARY SEWER AND WATERLINE IMPROVEMENTS PLAN AND PROFILE CHATEAU DRIVE N.E. STA.10+00 TO STA.14+80 CALISTOGA AVENUE N.E. STA.19+54.46 TO STA.23+39.77			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	Jeffrey S. Mortensen	7-27-94	WATER
TRANSPORTATION	N/A	9-02-94	WASTE WATER
HYDROLOGY	N/A	9-02-94	

PROJECT NO.	MAP NO.	SHEET OF
930847	C-20	31 OF 34

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
DATE	01/95	DATE	01/95	DATE	02-94	DATE	02-94
BY	J.M.A.	BY	J.M.A.	BY	J.M.A.	BY	J.M.A.
REMARKS		REMARKS		REMARKS		REMARKS	
DESIGN		DESIGN		DESIGN		DESIGN	
DATE	07-94	DATE	07-94	DATE	07-94	DATE	07-94
BY	J.M.A.	BY	J.M.A.	BY	J.M.A.	BY	J.M.A.

NOTE: FOR RETAINING WALL TYPICAL SECTION AND NOTES SEE SHEET 34 OF 34



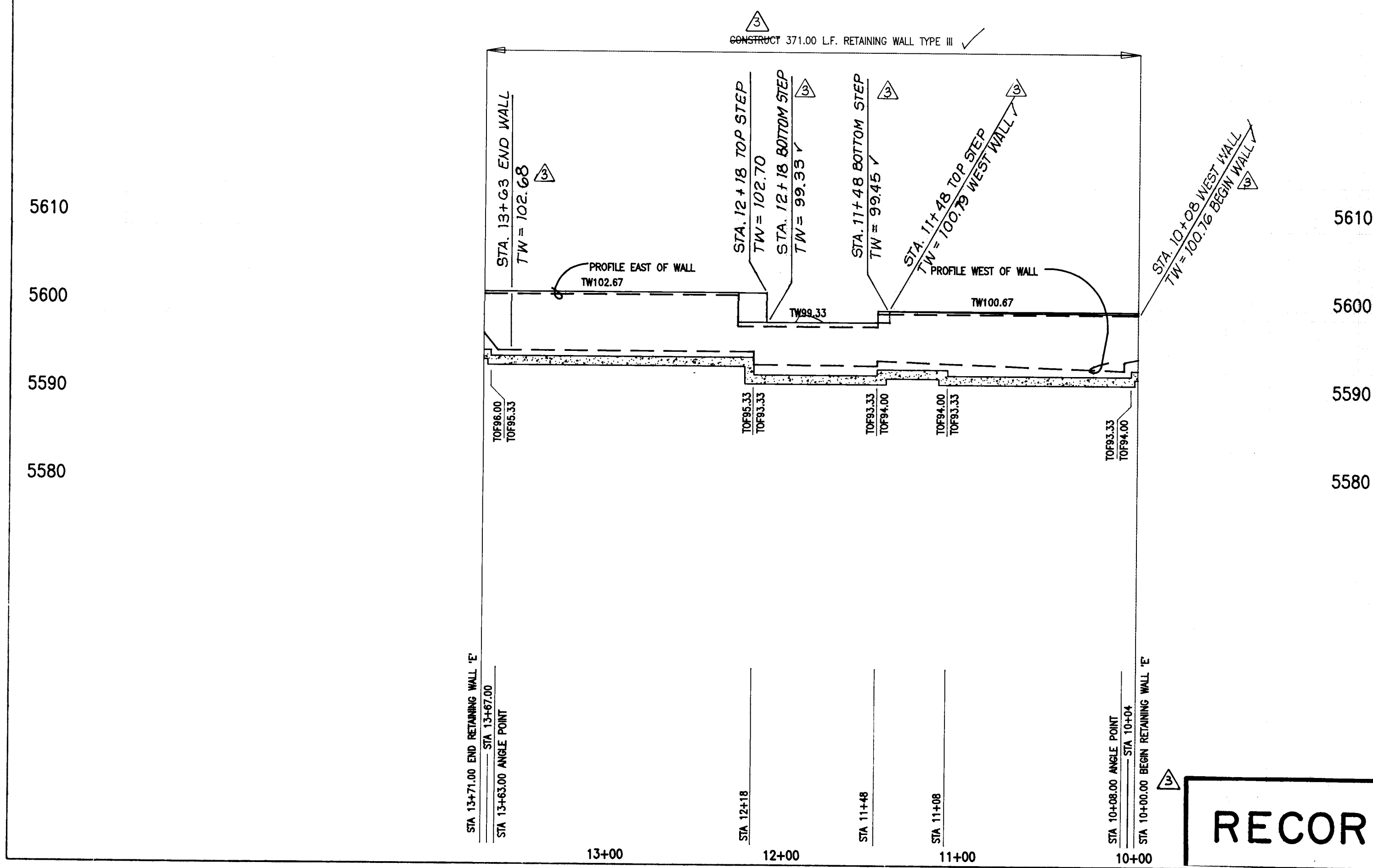


HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

RETAINING WALL 'E'

RETAINING WALL 'F' DETAIL
SCALE: 1" = 4'

RECORD DRAWING

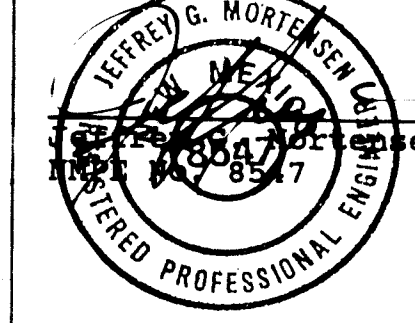


RECORD DRAWING

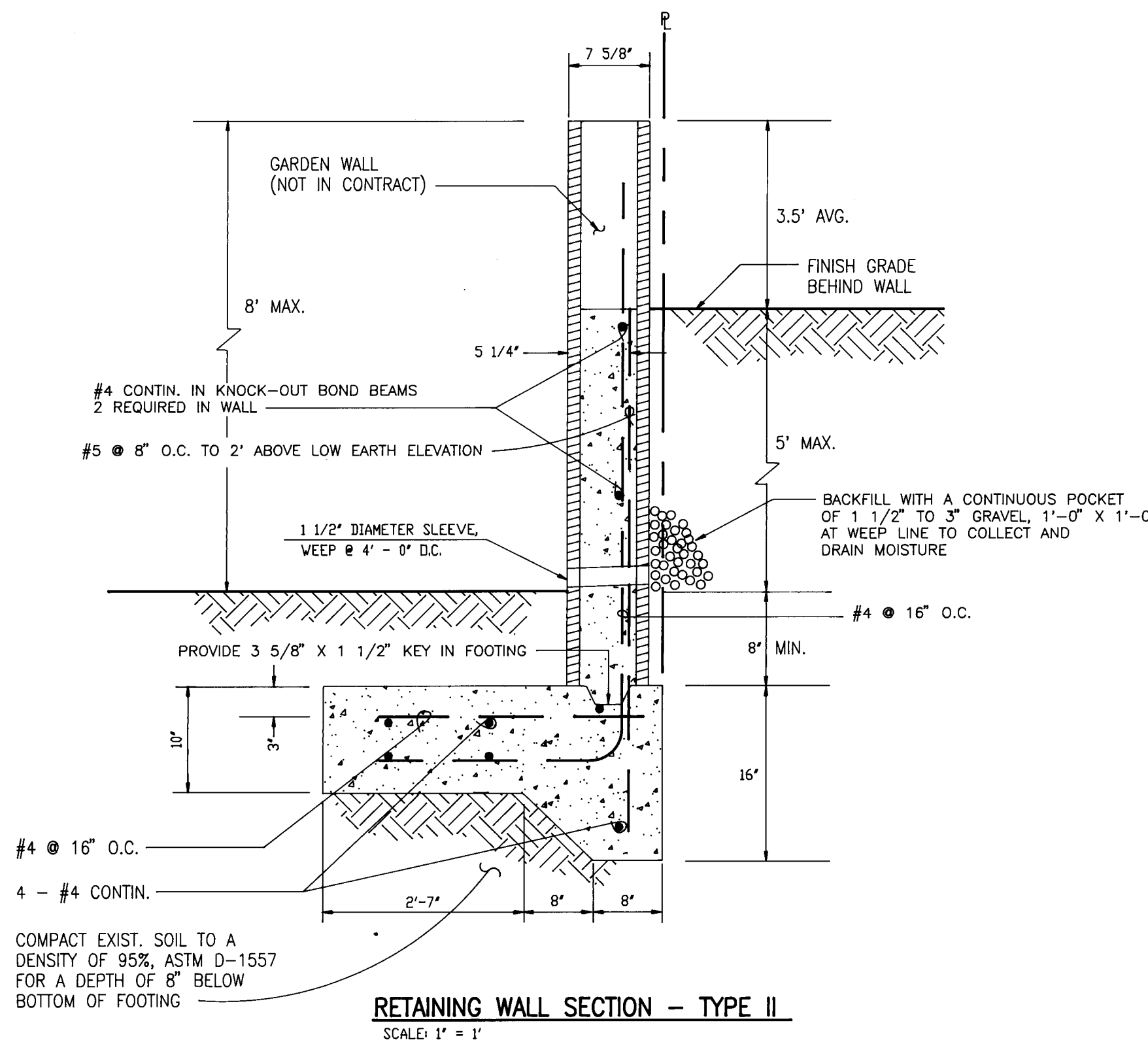
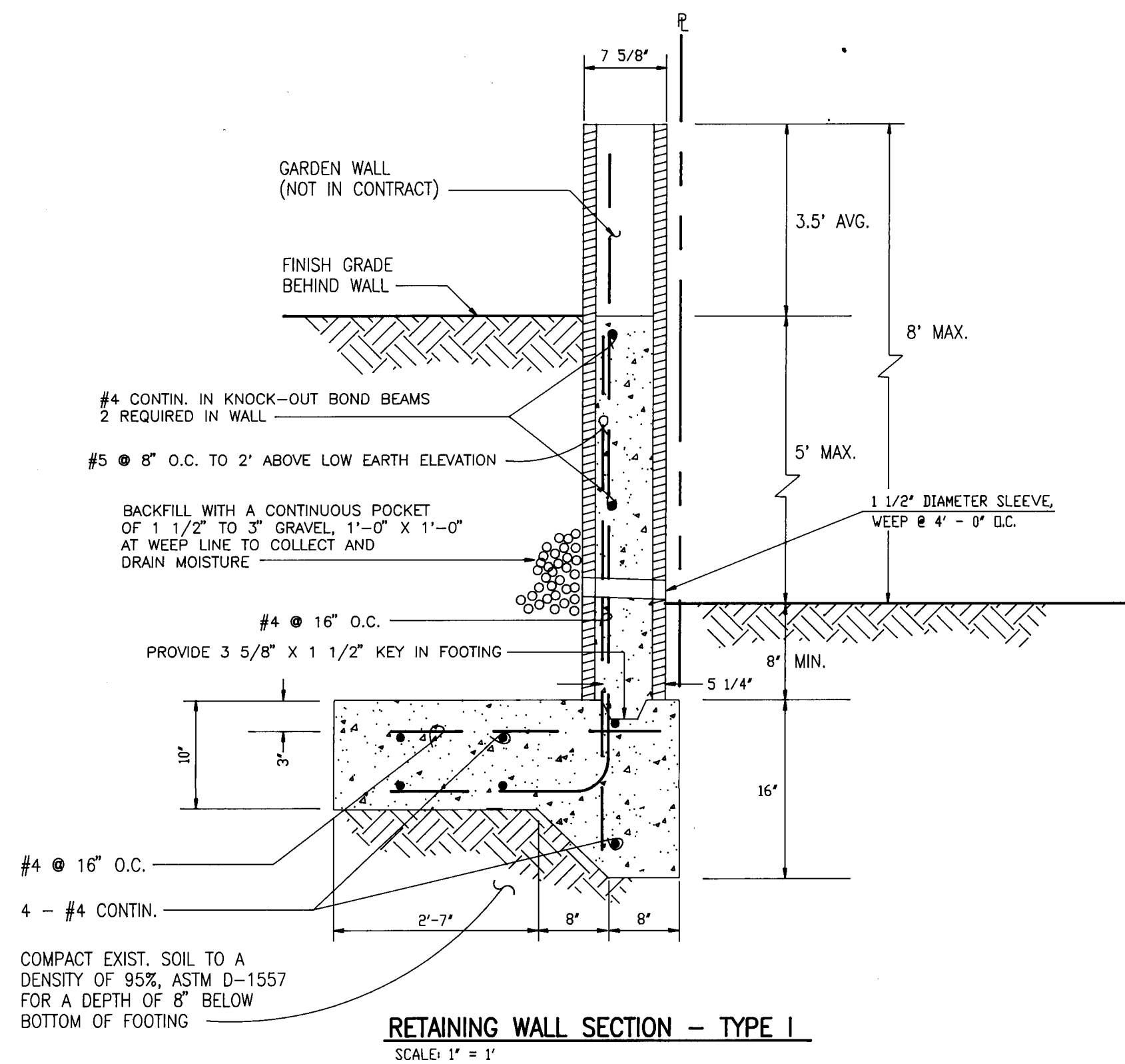
- NOTES:
1. 8"x8"x16" CMU OF UBC STD. 24-4 OR 24-5.
 2. USE KNOCK-OUT BOND BEAM BLOCK AT 4'-0" C.C., VERTICALLY, AND 1 #4 CONTINUOUS.
 3. FILL ALL BLOCK VOIDS WITH 3000 PSI CONCRETE.
 4. REINFORCING TO BE INTERMEDIATE GRADE STEEL. $f_y = 20,000$ psi
 5. IN LIEU OF CONTINUOUS KNOCK-OUT BOND BEAMS, CONTRACTOR MAY INSTALL DUR-O-WALL REINFORCING EVERY SECOND COURSE.
 6. SPLICE SHALL BE 40 BAR DIAM. MINIMUM FOR VERTICAL BARS. ALL OTHER SHALL BE 20 BAR DIAM. MINIMUM.
 7. CONCRETE FILL SHALL BE 21 DAYS OLD PRIOR TO BACKFILLING.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: VINEYARD ESTATES UNIT IV RETAINING WALL 'E' PLAN AND PROFILE RETAINING WALL 'F' DETAIL			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	<i>B. J. D.</i>	9-27-94	WATER
TRANSPORTATION	<i>N/A</i>	9-01-94	WASTE WATER
HYDROLOGY	<i>Antoni</i>	9-28-94	
DESIGNED BY		DATE	DESIGNED BY
DRAWN BY		DATE	DRAWN BY
CHECKED BY		DATE	CHECKED BY

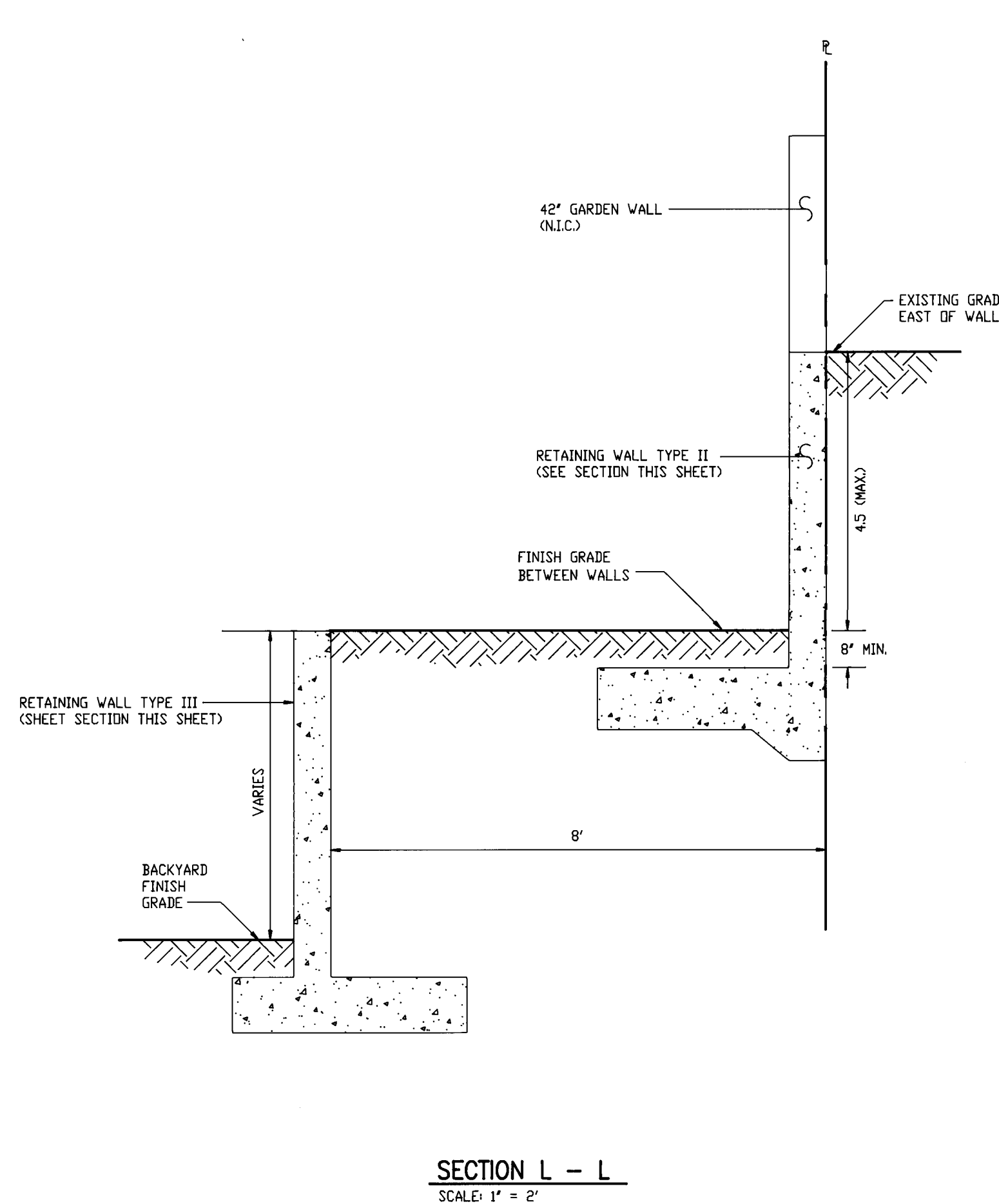
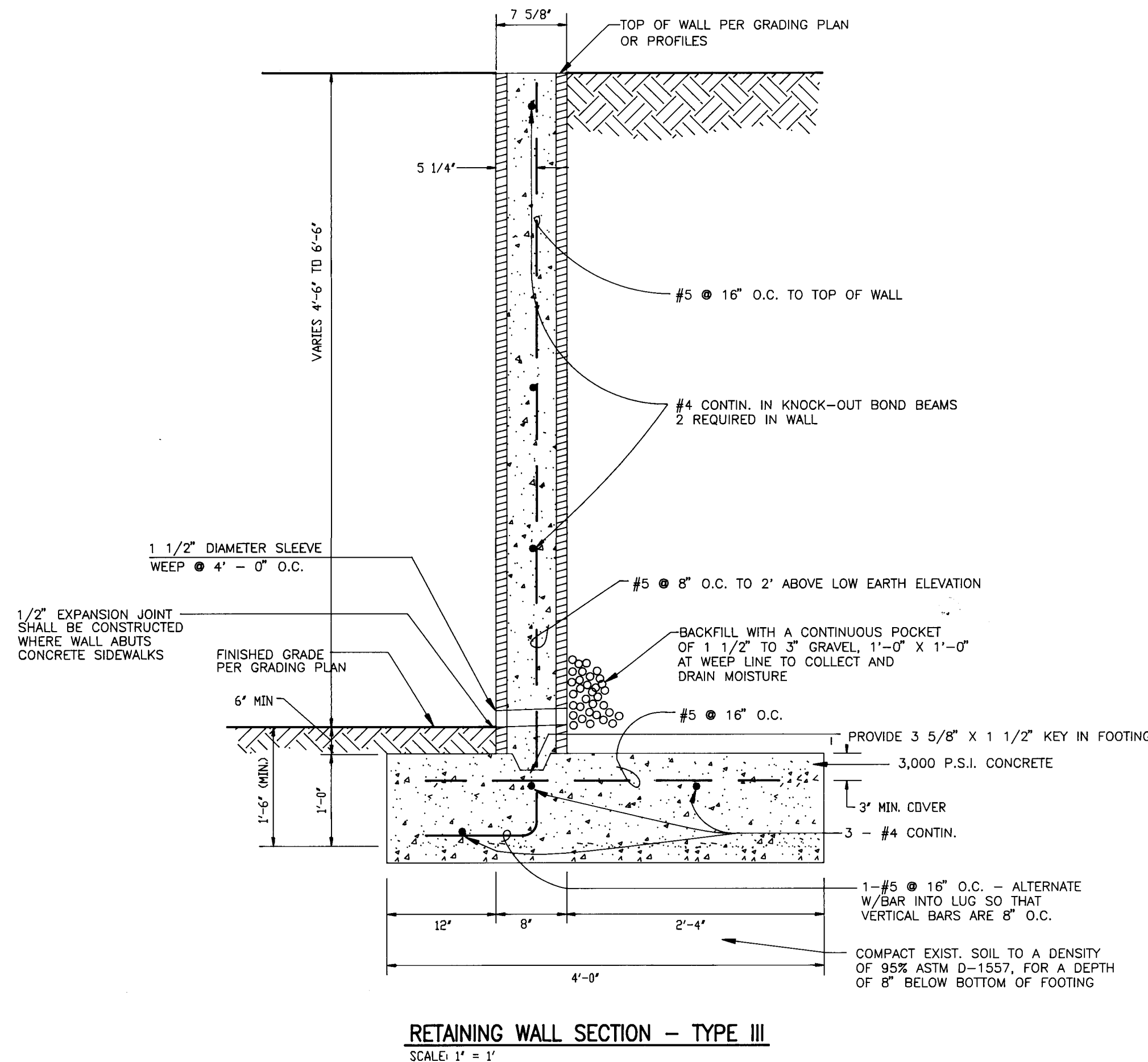


GRADING NOTES:

- ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 90% ASTM D-1557; HOUSE PADS SHALL BE COMPACTED AT 90% ASTM D-1557.
- THE PAD ELEVATIONS SHOWN HEREIN ARE FOR ROUGH GRADING PURPOSES.
- FINISHED FLOOR ELEVATIONS MAY VARY FROM THE PAD ELEVATIONS AND WILL BE DETERMINED AS A FUNCTION OF INDIVIDUAL HOUSE DESIGN.
- FINISHED FLOOR ELEVATIONS SHOULD BE ESTABLISHED AT A MINIMUM OF 6 INCHES ABOVE PAD ELEVATIONS; DEVIATIONS FROM THESE GUIDELINES MUST BE BASED ON THE RECOMMENDATIONS AND/OR DESIGN OF A COMPETENT DESIGN PROFESSIONAL.
- NO CROSS-LOT DRAINAGE WILL BE ALLOWED UNLESS PROVIDED FOR BY PRIVATE DRAINAGE EASEMENT.
- RETAINING WALLS SHALL BE CONSTRUCTED BY THE DEVELOPER.
- YARD (GARDEN) WALLS SHALL BE CONSTRUCTED BY THE LOT OWNER OR ITS BUILDER.
- THE FINISHED GRADING OF EACH LOT SHALL BE ACCOMPLISHED BY THE LOT OWNER OR ITS BUILDER. RUNOFF SHOULD BE DIRECTED TO THE STREETS OR DRAINAGE EASEMENT (IF AVAILABLE).
- MAXIMUM SLOPES SHALL BE 3:1; MINIMUM SLOPES SHALL BE 1X.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO DNE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

EROSION CONTROL MEASURES

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- ANY AREAS OF EXCESS DISTURBANCE (TRAFFIC ACCESS, STORAGE YARD EXCAVATED MATERIAL, ETC.) SHALL BE RE-SEEDING ACCORDING TO C.D.A. SPECIFICATION 1012 "NATIVE GRASS SEEDING". THIS WILL BE CONSIDERED INCIDENTAL CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.



NOTES:

- 8"X8"X16" CMU OF UBC STD. 24-4 OR 24-5.
- USE KNOCK-OUT BOND BEAM BLOCK AT 4'-0" MAX C.C., VERTICALLY, AND 1 #4 CONTINUOUS.
- FILL ALL BLOCK VOIDS WITH 3000 PSI CONCRETE.
- REINFORCING TO BE INTERMEDIATE GRADE STEEL. $f_s = 20,000$ psi
- IN LIEU OF CONTINUOUS KNOCK-OUT BOND BEAMS, CONTRACTOR MAY INSTALL DUR-O-WALL REINFORCING EVERY SECOND COURSE.
- SPLICE SHALL BE 40 BAR DIAM. MINIMUM FOR VERTICAL BARS. ALL OTHER SHALL BE 20 BAR DIAM., MINIMUM.
- CONCRETE FILL SHALL BE 21 DAYS OLD PRIOR TO BACKFILLING.

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	CONSTRUCTION	CONTRACTOR	DATE	CONSTRUCTION	NO.	DATE	BY	NO.	DATE	BY
SPARLING	05/95	J.M.A.	SPARLING	05/95	J.M.A.						
INSPECTOR'S	DATE	M.F.D.	INSPECTOR'S	DATE	M.F.D.						
VERIFICATION BY	DATE	J.E.W.	VERIFICATION BY	DATE	J.E.W.						
CONTRACTOR'S	DATE	RECORDED BY	CONTRACTOR'S	DATE	RECORDED BY						
NO.			NO.								



RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
NMPE No. 8547

NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
8547

22-95

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: VINEYARD ESTATES UNIT IV RETAINING WALL NOTES AND SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	BAJA	9-27-94	WATER	N/A RWK	8-29-94
TRANSPORTATION	N/A LUD	9-02-94	WASTE WATER	N/A RWK	8-29-94
HYDROLOGY	N/A JAC	9-02-94			
PROJECT NO.	3391.96	MAP NO.	C-20	SHEET	34 OF 34

RECORD DRAWING

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