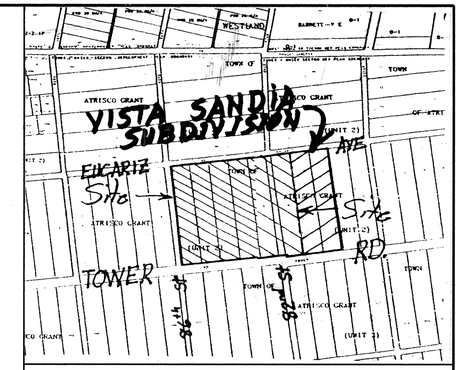
CONSTRUCTION PLANS

FOR

VISTA SANDIA SUBDIVISION UNIT III

ALBUQUERQUE, NEW MEXICO



VICINITY MAP L-9, L-10

SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
4. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
5. FIVE (5) 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. SEE SECTION 19 OF THE SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR IN EXISTING OR NEW LOCATION AS INDICATED BY THIS SET.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER 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 ELEVATIONS 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 GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
8. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOURS CONSTRUCTION.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [x] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [x] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- [x] SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [ ] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [x] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

INDEX TO DRAWINGS

SHEET NO.	SHEET
1	TITLE SHEET
2-4	PLAT
5-6	GRADING AND DRAINAGE PLAN
7	MASTER PAVING PLAN
8-11	PAVING IMPROVEMENTS
12	MASTER UTILITY PLAN
13-16	UTILITY IMPROVEMENTS
17	STORM IMPROVEMENTS
18-19	TRAFFIC CONTROL

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Gilbert Chang
DATE 4/3/02

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes 3-20-02
James D. Hughes NMPE 11674

DRB-98-245

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
James D. Hughes 9-9-99

APPROVALS		DATE
ENGINEER		
DRC CHAIRMAN		12-17-99
TRANSPORTATION		10-14-99
WATER/WASTEWATER	Rebecca C. Tapia	10-12-99
HYDROLOGY		10-12-99
CIP		
CONSTR. MNGMT.		
CONSTR. COORD.		12-17-99

CITY PROJECT NO. 6071.83

APPROVED FOR CONSTRUCTION

CITY ENGINEER 4/9/01 DATE

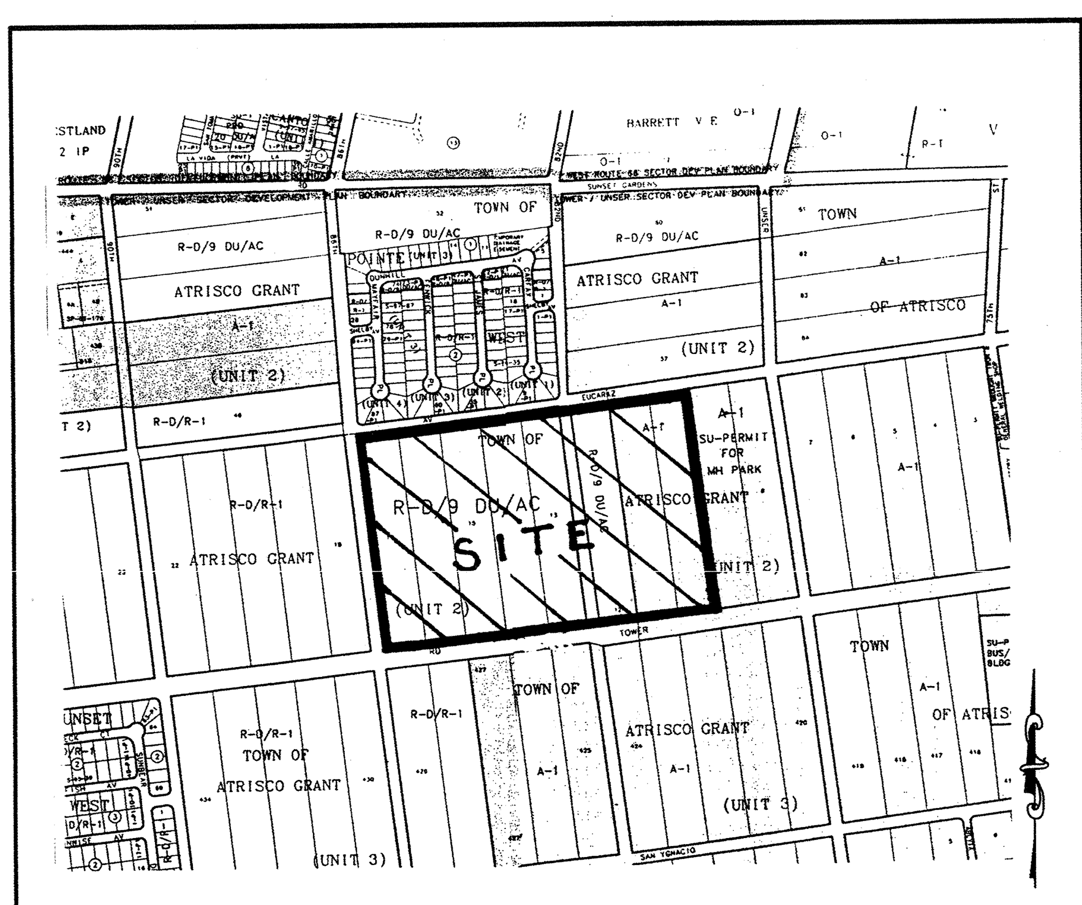
SHEET 1 OF 19

SCANNED BY MESA REPRO
F:\DATA\DWGS\98JOBS\9818VIST\UNIT3\9118TLE.DWG Thu Sep 09 10:36:14 1999 PLOTTED BY ACH

PLAT OF

VISTA SANDIA SUBDIVISION UNIT THREE

WITHIN THE
"TOWN OF ATRISCO GRANT"
PROJECTED SECTION 27 & 28, T.10N., R.2E., N.M.P.M.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
AUGUST, 1999



SCALE: 1"=750± VICINITY MAP

SUBDIVISION DATA:

CASE NO.	DRB-98-245, SV-98-62
GROSS SUBDIVISION ACREAGE	11.5346
ZONE ATLAS INDEX NO.	L-9, L-10
NO. OF EXISTING TRACTS	1
NO. OF EXISTING LOTS	0
NO. OF LOTS CREATED	89
NO. OF TRACTS CREATED	1
MILES OF FULL WIDTH STREETS CREATED	0.43 MILES
AREA DEDICATED TO CITY OF ALBUQUERQUE	0 ACRES
DATE OF SURVEY	AUGUST, 1999
S.P. LOG NO.	

FREE CONSENT AND DEDICATION:

THE SUBDIVISION SHOWN HEREON IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNER(S) AND/OR PROPRIETOR(S) THEREOF AND SAID OWNER(S) AND/OR PROPRIETOR(S) DO HEREBY GRANT WITH WARRANTY COVENANTS ALL ACCESS, SANITARY SEWER, WATER, STORM DRAIN, AND UTILITY EASEMENTS SHOWN HEREON INCLUDING THE RIGHT TO CONSTRUCT, OPERATE, INSPECT, AND MAINTAIN FACILITIES THEREIN; AND ALL PUBLIC UTILITY EASEMENTS SHOWN HEREON FOR THE COMMON AND JOINT USE OF GAS, ELECTRICAL POWER AND COMMUNICATION SERVICES FOR BURIED AND/OR OVERHEAD DISTRIBUTION LINES, AND INCLUDING THE RIGHT OF INGRESS AND EGRESS FOR CONSTRUCTION AND MAINTAINANCE, AND THE RIGHT TO TRIM INTERFERING TREES AND SHRUBS (SEE NOTE 7). SAID OWNER(S) AND/OR PROPRIETOR(S) DO HEREBY CONSENT TO ALL OF THE FOREGOING AND DO HEREBY CERTIFY THAT THIS SUBDIVISION IS THEIR FREE ACT AND DEED.

D.R. HORTON, INC.

BY: ______________________
MARK FERGUSON

STATE OF NEW MEXICO } SS
COUNTY OF BERNALILLO

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON ______________,1998
BY MARK FERGUSON, OFFICER, ON BEHALF OF SAID CORPORATION.

BY: ______________________
NOTARY PUBLIC

MY COMMISSION EXPIRES: ______________________

US WEST COMMUNICATION QUITCLAIM

KNOWN ALL MEN BY THESE PRESENTS that US WEST COMMUNICATIONS, INC., a Colorado Corporation, hereinafter called ?Company?, for and in consideration of One Dollar ($1.00) and other good and valuable considerations in hand paid, the receipt whereof is hereby confessed and acknowledged, does hereby release, remise and quitclaim all the right, title and interest acquired by the Company or its assignors under that certain right-of-way grant, recorded in The Office of Bernalillo Clerk an: Recorded in Book 112, Page 290 on May 17, 1930, AND a Modification of this Easement in Book Misc. 298, Page 635, filed for record February 13, 1973, AND Assignment of this Easement in Book Misc. 575, Page 928, filed for record December 19, 1977, unto the present owner or owners, as their representative interest may appear therein, in the following described property, to wit:

A tract of land situated in the Town of Atrisco Grant, Projected Sections 27 & 28, Township 10 North, Range 2 East, NMPM, City of Albuquerque, Bernalillo County, New Mexico.

It is the intent of this Quitclaim Deed to vacate any portion of the above stated documents which may be located in Tracts 12, 13, 14, 15, 16, & 17, Unit 2, Town of Atrisco Grant as recorded in Volume D, Folio 118, and recorded December 5, 1944,

and hereby expressly excepting and reserving to the Company, any and all interest otherwise acquired in said property, except as above stated.

IN WITNESS THEREOF, The Company has caused these presents to be executed by its duly authorized officer ______________________

US WEST COMMUNICATIONS

BY ______________________
MANAGER - NETWORK & TECHNOLOGY SERVICES

ACKNOWLEDGMENT

STATE OF NEW MEXICO } SS
COUNTY OF BERNALILLO

This instrument was acknowledged before me on ______________________

NOTARY PUBLIC MY COMMISSION EXPIRES

APPROVALS:

Subdivision Case No. ____________

Traffic Engineer	Date
Design & Development, CIP	Date
City Surveyor	Date
Utility Development Division	Date
Property Management	Date
Albuquerque Metropolitan Arroyo Flood Control Authority	Date
City Engineer	Date
PNM Electric Services	Date
PNM Gas Services	Date
U S West Communications	Date
Jones Intercable	Date

APPROVAL & CONDITIONAL EXCEPTANCE as specified by the Albuquerque Subdivision Ordinance, Article XI of Chapter 7 of the Revised Ordinances of Albuquerque, N.M.

City Planner, Albuquerque/Bernalillo County Planning Division ____ Date

SURVEYORS CERTIFICATE:

I, KEVIN C. DAGGETT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11000, DO HEREBY CERTIFY THAT THE PLAT SHOWN HEREON WAS PREPARED UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS PLAT, AND THE SURVEY UPON WHICH IT IS BASED, MEETS, OR EXCEEDS, THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE ALBUQUERQUE SUBDIVISION ORDINANCE AND THE MINIMUM STANDARDS AS SET FORTH FOR LAND SURVEYS IN THE STATE OF NEW MEXICO.

Kevin C. Daggett 8-2-99
KEVIN C. DAGGETT, N.M.P.L.S. 11000 DATE

KEVIN C. DAGGETT NEW MEXICO 11000 REGISTERED PROFESSIONAL SURVEYOR

© COPYRIGHT

Sheet 1 of 3

SCALE: 1" = N/A		
Designed By: KCD	Drawn By: KCD/JMM	Checked By: KCD
File No. 98-2E	Date: 8-2-99	

DAGGETT ENGINEERING & SURVEYING
2125 Corte De Chamisa, N.W.
Albuquerque, N.M. 87120
kcd@swcp.com (E-mail)
(505) 836-2657 (Office)
(505) 228-7821 (Mobile)
(505) 831-9466 (Fax)

RECORD DRAWING
I hereby certify that the information contained on this drawing has been reviewed ... furnished by the contractor ... Daggett Surveying ... Approved P...
James D. Hughes NMPE 11674

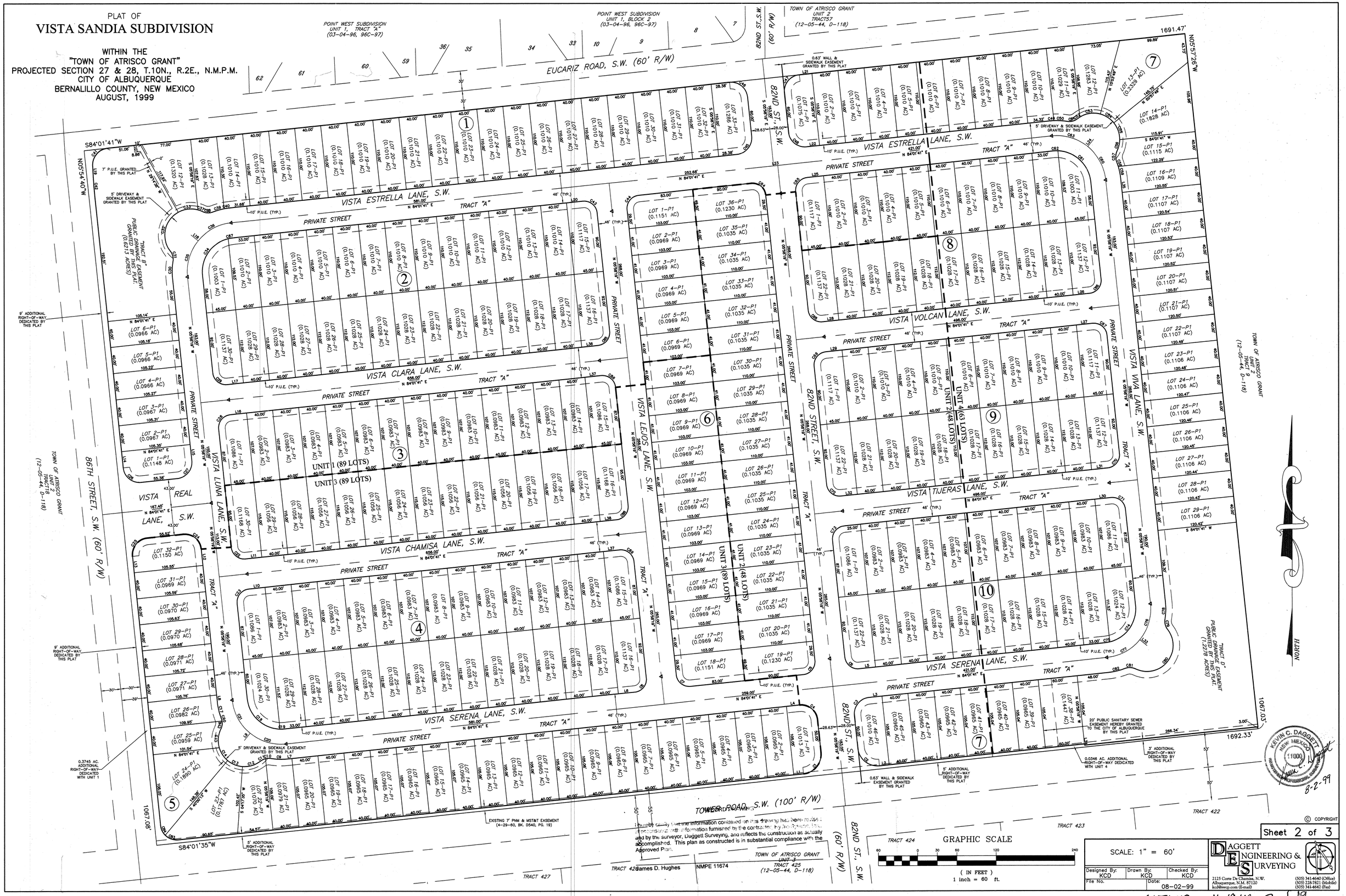
SCANNED BY
MESA REPRO

#607183 MapL9,L10 Sheet 2 of 19

PLAT OF

VISTA SANDIA SUBDIVISION

WITHIN THE
"TOWN OF ATRISCO GRANT"
PROJECTED SECTION 27 & 28, T.10N., R.2E., N.M.P.M.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
AUGUST, 1999



I hereby certify that the information contained on this drawing has been received and coordinated with information furnished by the contractor, by this surveyor, that as staked by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674

Sheet 2 of 3

SCALE: 1" = 60'

Designed By:	Drawn By:	Checked By:
KCD	KCD	KCD
File No.	Date: 08-02-99	

DAGGETT ENGINEERING & SURVEYING
2125 Corte De Chamisa, N.W.
Albuquerque, N.M. 87120
kcd@swcp.com (E-mail)
(505) 341-6640 (Office)
(505) 228-7821 (Mobile)
(505) 341-6642 (Fax)

SCANNED BY MESA REPRO

607183 Map 19,410 3 of 19

f:\forms\engineer.crt

PLAT OF

VISTA SANDIA SUBDIVISION UNIT THREE

WITHIN THE
"TOWN OF ATRISCO GRANT"
PROJECTED SECTION 27 & 28, T.10N., R.2E., N.M.P.M.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
AUGUST, 1999

NOTES:

1. THE PURPOSE OF THIS PLAT IS TO SUBDIVIDE 11.5346 ACRES INTO 89 SINGLE FAMILY LOTS, 1 TRACT, GRANT PRIVATE ACCESS EASEMENTS; AND GRANT PUBLIC WATER, SANITARY SEWER, STORM DRAIN AND UTILITY EASEMENTS AS SHOWN HEREON.
2. ALL BEARINGS SHOWN HEREON ARE GRID BEARINGS BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, MEAN DELTA ALPHA (DEGREES 16 MINUTES 27 SECONDS). ALL DISTANCES ARE GROUND DISTANCES.
3. BEARINGS AND DISTANCES SHOWN IN PARENTHESIS ARE RECORD.
4. BENCHMARK FOR THIS PLAT IS ACS CONTROL POINT 7-K9, 1989, LOCATED IN THE MEDIAN AT THE INTERSECTION OF 90TH STREET AND CENTRAL AVENUE, ELEVATION 5137.36
5. UNLESS OTHERWISE NOTED, ALL CORNERS ARE EVIDENCED BY A 5/8 REBAR WITH ALUMINUM CAP STAMPED, "P.S. 11000".
6. CENTERLINE (IN LIEU OF R/W) MONUMENTATION WILL BE INSTALLED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY, AND POINTS OF STREET INTERSECTIONS PRIOR TO THE ACCEPTANCE OF SUBDIVISION STREET IMPROVEMENTS AND WILL CONSIST OF A FOUR INCH DIAMETER ALUMINUM ALLOY CAP SET FLUSH WITH THE TOP OF ASPHALT STAMPED "CITY OF ALBUQUERQUE CENTERLINE MONUMENTATION SURVEY MARKER, DO NOT DISTURB, P.S. 11000". THE SMALL, SOLID-FILLED TRIANGLE SYMBOLS DEPICTED HEREON DENOTE CENTERLINE MONUMENTS TO BE SET.
7. PUBLIC UTILITY EASEMENTS (P.U.E.) SHOWN ON THIS PLAT ARE GRANTED FOR THE COMMON AND JOINT USE OF:

A. PNM ELECTRICAL SERVICES FOR INSTALLATION, MAINTAINANCE AND SERVICE OF OVERHEAD AND UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, POLES AND ANY OTHER EQUIPMENT, FIXTURES, STRUCTURES AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRICAL SERVICE.

B. PNM GAS SERVICES FOR THE INSTALLATION, MAINTAINANCE, AND SERVICE OF NATURAL GAS LINES, VALVES AND OTHER EQUIPMENT AND FACILITIES RESONABLY NECESSARY TO PROVIDE NATURAL GAS SERVICE.

C. U S WEST FOR THE INSTALLATION, MAINTAINANCE AND SERVICE OF ALL BURIED COMMUNICATION LINES AND RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES, INCLUDING BUT NOT LIMITED TO ABOVE GROUND PEDESTALS AND CLOSURES.

D. JONES INTERCABLE FOR THE INSTALLATION, MAINTAINANCE AND SERVICE OF SUCH UNDER GROUND LINES, CABLE AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE TV SERVICE.

E. CITY OF ALBUQUERQUE WATER AND SEWER DEPARTMENT FOR THE INSTALLATION, MAINTAINANCE AND SERVICE OF SUCH UNDERGROUND WATER AND SANITARY SEWER LINES ACROSS THE EASEMENT AND OTHER RELATED EQUIPMENT OR FACILITIES REASONABLY NECESSARY TO PROVIDE SERVICE.

INCLUDED IS THE RIGHT TO BUILD, REBUILD, CONSTRUCT, RECONSTRUCT, LOCATE, RELOCATE, CHANGE, REMOVE, MODIFY, RENEW, OPERATE, AND MAINTAIN FACILITIES FOR THE PURPOSES DESCRIBED ABOVE, TOGETHER WITH THE FREE ACCESS TO, FROM, AND OVER SAID EASEMENTS, INCLUDING SUFFICIENT WORKING AREA SPACE FOR ELECTRIC TRANSFORMERS, WITH THE RIGHT AND PRIVILEDGE TO TRIM AND REMOVE TREES, SHRUBS OR BUSHES WHICH INTERFERE WITH THE PURPOSES SET FORTH HEREIN. NO BUILDING, SIGN, POOL (ABOVE GROUND OR SUBSURFACE), HOT TUB, CONCRETE OR WOOD POOL DECKING, OR OTHER STRUCTURE SHALL BE ERECTED OR CONSTRUCTED ON SAID EASEMENTS, NOR SHALL ANY WELL BE DRILLED OR OPERATED THEREON. PROPERTY OWNERS SHALL BE SOLELY RESPONSIBLE FOR CORRECTING ANY VIOLATIONS OF NATIONAL ELECTRIC SAFETY CODE CAUSED BY THE CONSTRUCTION OF POOLS, DECKING, OR ANY STRUCTURES ADJACENT TO, OR NEAR EASEMENTS SHOWN ON THIS PLAT

8. SPECIFICALLY THE PARKING DENSITY CATEGORY OF INTERMITTENT PARKING IS MET FOR EACH LOT BY PROVIDING: THREE PARKING SPACES FOR UP TO TWO BEDROOMS, OR FOUR PARKING SPACES FOR THREE TO FOUR BEDROOMS, OR FIVE PARKING SPACES FOR FIVE OR MORE BEDROOMS.
9. BUILDING SETBACKS FOR ALL LOTS ARE COMPLIANT WITH RD-9 ZONING REQUIREMENTS.
10. TRACT "A" IS DEDICATED IN FEE SIMPLE TO THE VISTA SANDIA HOMEOWNERS ASSOCIATION AS A COMMON AREA FOR PRIVATE STREET BY THIS PLAT. A PRIVATE ACCESS AND PRIVATE DRAINAGE EASEMENT IS GRANTED TO EACH LOT OWNER ACROSS THIS TRACT BY THIS PLAT. A PUBLIC WATER, SANITARY SEWER AND STORM DRAIN EASEMENT IS GRANTED WITHIN TRACT "A" TO THE CITY OF ALBUQUERQUE BY THIS PLAT. MAINTAINANCE AND OPERATION OF THE PRIVATE STREETS SHALL BE THE RESPONSIBILITY OF THE VISTA SANDIA HOA. WATER, SANITARY SEWER AND STORM DRAIN SYSTEMS SHALL BE MAINTANED AND OPERATED BY THE CITY OF ALBUQUERQUE. A P.U.E. IS ALSO GRANTED ACROSS THIS TRACT TO U.S. WEST COMMUNICATIONS, JONES INTERCABLE, PNM GAS SERVICES, AND PNM ELECTRIC.
11. A 10' PRIVATE DRAINAGE EASEMENT IS CENTERED ON ALL COMMON SIDE LOT LINES.
12. RD-9 OPEN SPACE REQUIREMENTS:

*PERMITTED BUILDING AREA (Sq. Ft.)	MINIMUM LOT AREA (Sq. Ft.)
>2211	>4611
>2042	>4442
>1903	>4303
>1810	>4210
>1690	>4090
>1553	>3953

*INCLUDES BUILDING AND DRIVE PAD.

LEGAL DESCRIPTION:

A TRACT OF LAND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTION 27 & 28, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO BEING ALL OF TRACTS 10 THRU 17, TOWN OF ATRISCO GRANT, UNIT 2 AS THE SAME IS SHOWN AND DESIGNATED ON SAID PLAT FILED FOR RECORD IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON DECEMBER 5, 1944 IN VOLUME D, FOLIO 118, TOGETHER WITH VACATED 82ND STREET S.W. (SV-98-62) AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF THE TRACT HEREIN DESCRIBED, SAID POINT BEING THE INTERSECTION OF THE NORTHERLY RIGHT-OF-WAY LINE OF TOWER ROAD S.W. AND THE EASTERLY RIGHT-OF-WAY LINE 86TH STREET S.W., FROM WHENCE THE ALBUQUERQUE CONTROL SURVEY MONUMENT "8-L9" BEARS N 89 27'29" E, 205.89 FEET;

THENCE, CONTINUING FROM SAID POINT OF BEGINNIG, LEAVING SAID NORTHERLY RIGHT-OF-WAY LINE ALONG SAID EASTERLY RIGHT-OF-WAY LINE N 05 54'40" W, 1067.08 FEET TO THE NORTHWEST CORNER, SAID POINT BEING THE INTERSECTION OF SAID EASTERLY RIGHT-OF-WAY LINE AND THE SOUTHERLY RIGHT-OF-WAY LINE OF EUCARIZ AVENUE S.W.;

THENCE LEAVING SAID EASTERLY RIGHT-OF-WAY LINE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE N 84 01'41" E, 1691.47 FEET TO THE NORTHEAST CORNER, SAID POINT BEING THE NORTHWEST CORNER OF TRACT 9, TOWN OF ATRISCO GRANT, UNIT 2 AS THE SAME IS SHOWN AND DESIGNATED ON SAID PLAT FILED FOR RECORD IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON DECEMBER 5, 1944 IN VOLUME D, FOLIO 118;

THENCE LEAVING SAID SOUTHERLY RIGHT-OF-WAY LINE S 05 57'26" E, 1067.03 FEET ALONG THE WESTERLY LINE OF SAID TRACT 9 TO THE SOUTHEAST CORNER, SAID POINT LYING ON THE NORTHERLY RIGHT-OF-WAY LINE OF TOWER ROAD, S.W. AND BEING THE SOUTHWEST CORNER OF SAID TRACT 9;

THENCE CONTINUING ALONG SAID NORTHERLY RIGHT-OF-WAY LINE S 84 01'35" W, 1692.33 FEET TO THE POINT AND PLACE OF BEGINNING, CONTAINING 41.4452 ACRES MORE OR LESS.

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674

CURVE TABLE

CURVE	ARC	DELTA	RADIUS	CH. LENGTH	CH. BEARING
C1	47.12	89°59'54"	30.00	42.43	N39°01'38"E
C2	47.12	90°00'06"	30.00	42.43	S50°58'22"E
C3	39.27	90°00'00"	25.00	35.36	S39°01'41"W
C4	39.27	90°00'00"	25.00	35.36	N50°58'19"W
C5	31.42	90°00'00"	20.00	28.28	N39°01'41"E
C6	31.42	90°00'00"	20.00	28.28	S50°58'19"E
C7	31.42	90°00'00"	20.00	28.28	S50°58'19"E
C8	31.42	90°00'00"	20.00	28.28	N39°01'41"E
C9	26.17	15°18'05"	98.00	26.09	S88°19'16"E
C10	7.95	22°46'47"	20.00	7.90	S87°56'23"W
C11	8.56	24°31'08"	20.00	8.49	S64°17'25"W
C12	29.50	42°15'44"	40.00	28.84	N73°09'43"E
C13	24.93	35°42'37"	40.00	24.53	S67°51'06"E
C14	23.63	33°50'52"	40.00	23.29	S33°04'22"E
C15	29.44	42°10'26"	40.00	28.78	S04°56'17"W
C16	12.31	35°15'52"	20.00	12.12	N08°23'35"E
C17	26.17	15°18'05"	98.00	26.09	S13°37'22"E
C18	74.66	82°15'49"	52.00	68.41	S47°06'14"E
C19	7.02	07°44'11"	52.00	7.02	N87°53'46"E
C20	58.90	45°00'00"	75.00	57.40	S73°28'19"E
C21	58.90	45°00'00"	75.00	57.40	S28°28'19"E
C22	31.42	90°00'00"	20.00	28.28	S50°58'19"E
C23	31.42	90°00'00"	20.00	28.28	S39°01'41"W
C24	39.27	90°00'00"	25.00	35.36	N50°58'19"W
C25	39.24	89°56'21"	25.00	35.34	S39°03'30"W
C26	39.30	90°03'39"	25.00	35.37	S50°56'30"E
C27	39.27	90°00'00"	25.00	35.36	N39°01'41"E
C28	31.42	90°00'00"	20.00	28.28	S39°01'41"W
C29	31.42	90°00'00"	20.00	28.28	S50°58'19"E
C30	26.17	15°18'05"	98.00	26.09	S01°40'44"W
C31	16.51	47°17'55"	20.00	16.05	N14°19'11"W
C32	68.92	98°43'31"	40.00	60.71	S11°23'37"W
C33	31.20	44°41'34"	40.00	30.42	S83°06'09"W
C34	74.66	82°15'49"	52.00	68.41	S35°09'36"W
C35	58.90	45°00'00"	75.00	57.40	S16°31'41"W
C36	58.90	45°00'00"	75.00	57.40	S61°31'41"W
C37	7.38	10°34'35"	40.00	7.37	N69°15'47"W
C38	16.51	47°17'55"	20.00	16.05	S87°37'27"E
C39	17.84	10°25'44"	98.00	17.81	S73°56'28"W
C40	8.33	04°52'21"	98.00	8.33	S81°35'31"W
C41	38.05	87°12'31"	25.00	34.48	S40°25'25"W
C42	29.12	02°43'50"	611.00	29.12	S04°32'45"E
C43	31.42	90°00'00"	20.00	28.28	N50°58'19"W
C44	31.42	90°00'00"	20.00	28.28	S39°01'41"W
C45	39.27	90°00'00"	25.00	35.36	N39°01'41"E
C46	39.27	90°00'00"	25.00	35.36	N50°58'19"W
C47	39.27	90°00'00"	25.00	35.36	S39°01'41"W
C48	39.27	90°00'00"	25.00	35.36	S50°58'19"E
C49	5.68	03°19'13"	98.00	5.68	S85°41'18"W
C50	20.49	11°58'52"	98.00	20.46	N86°39'40"W
C51	16.51	47°17'55"	20.00	16.05	N75°40'49"E
C52	4.50	06°26'24"	40.00	4.49	S55°15'03"W
C53	32.53	46°35'34"	40.00	31.64	S81°46'02"W
C54	25.06	35°54'00"	40.00	24.65	N56°59'11"W
C55	27.73	39°42'59"	40.00	27.18	N19°10'41"W
C56	17.69	25°20'42"	40.00	17.55	N13°21'09"E
C57	16.51	47°17'55"	20.00	16.05	S02°22'33"W
C58	7.76	04°32'23"	98.00	7.76	N19°00'13"W
C59	18.41	10°45'42"	98.00	18.38	N11°21'10"W
C60	58.90	45°00'00"	75.00	57.40	N28°28'19"W
C61	74.66	82°15'49"	52.00	68.41	N47°06'14"W
C62	7.02	07°44'11"	52.00	7.02	S87°53'46"W
C63	58.90	45°00'00"	75.00	57.40	N73°28'19"W
C64	31.42	90°00'00"	20.00	28.28	N50°58'19"W
C65	31.42	90°00'00"	20.00	28.28	S39°01'41"W
C66	31.42	90°00'00"	20.00	28.28	N39°01'41"E
C67	31.42	90°00'00"	20.00	28.28	N50°58'19"W
C68	31.42	90°00'00"	20.00	28.28	S50°58'19"E
C69	31.42	90°00'00"	20.00	28.28	S39°01'41"W
C70	31.42	90°00'00"	20.00	28.28	N39°01'41"E
C71	31.42	90°00'00"	20.00	28.28	N50°58'19"W
C72	31.42	90°00'00"	20.00	28.28	S50°58'19"E
C73	31.42	90°00'00"	20.00	28.28	S39°01'41"W
C74	74.66	82°15'49"	52.00	68.41	N35°09'36"E
C75	7.02	07°44'11"	52.00	7.02	N80°09'36"E
C76	58.90	45°00'00"	75.00	57.40	N16°31'41"E
C77	58.90	45°00'00"	75.00	57.40	N61°31'41"E
C78	26.17	15°18'05"	98.00	26.09	N01°40'44"E
C79	16.51	47°17'55"	20.00	16.05	S14°19'11"E
C80	107.51	153°59'39"	40.00	77.95	N39°01'41"E
C81	16.51	47°17'55"	20.00	16.05	N87°37'27"W
C82	26.17	15°18'05"	98.00	26.09	N76°22'38"E
C83	22.22	50°55'57"	25.00	21.50	S70°30'26"E
C84	17.07	39°07'48"	25.00	16.74	S25°28'34"E
C85	31.42	90°00'00"	20.00	28.28	N39°01'41"E
C86	31.42	90°00'00"	20.00	28.28	N50°58'19"W
C87	7.02	07°44'11"	52.00	7.02	S80°09'36"W
C88	31.42	90°00'00"	20.00	28.28	N39°01'41"E
C89	31.42	90°00'00"	20.00	28.28	N50°58'19"W
C90	4.20	12°02'03"	20.00	4.19	N15°15'23"W

LINE TABLE

LINE	LENGTH	BEARING
L1	15.12	N84°01'35"E
L2	15.00	N84°01'35"E
L3	20.00	N84°01'41"E
L4	20.12	N84°01'41"E
L5	25.00	N84°01'41"E
L6	25.00	N84°01'41"E
L7	6.26	N84°01'41"E
L8	10.00	N05°58'19"W
L9	14.00	S39°01'41"W
L10	25.00	N84°01'41"E
L11	25.00	N84°01'41"E
L12	25.00	N05°58'19"W
L13	25.03	S05°54'40"E
L14	24.97	N05°54'40"W
L15	25.00	N05°58'19"W
L16	25.00	N84°01'41"E
L17	25.00	N84°01'41"E
L18	14.00	S50°58'19"E
L19	17.63	N03°10'50"W
L20	25.00	N84°01'41"E
L21	20.00	N84°01'41"E
L22	20.00	N84°01'41"E
L23	6.32	N84°01'41"E
L24	14.00	N39°01'41"E
L25	25.00	N84°01'41"E
L26	25.00	N84°01'41"E
L27	25.00	N84°01'41"E
L28	25.00	N84°01'41"E
L29	25.00	N84°01'41"E
L30	25.00	N84°01'41"E
L31	25.00	N84°01'41"E
L32	25.00	N84°01'41"E
L33	14.00	S50°58'19"E
L34	2.00	N05°58'19"W
L35	21.70	N05°58'19"W
L36	25.00	N84°01'41"E
L37	25.00	N84°01'41"E
L38	25.00	N84°01'41"E

KEVIN C. DAGGETT NEW MEXICO 11000 REGISTERED PROFESSIONAL SURVEYOR
8-2-99

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Sheet 3 of 3

SCALE: 1" = N/A

Designed By: KCD	Drawn By: KCD	Checked By: KCD
File No.	Date: 08-02-99	

DAGGETT ENGINEERING & SURVEYING
2125 Corte De Charnina, N.W.
Albuquerque, N.M. 87120
kcd@swcp.com (E-mail)
(505) 341-6640 (Office)
(505) 228-7821 (Mobile)
(505) 341-6642 (Fax)

607183 Map L9,L10 Sheet 4 of 19

SCANNED BY MESA REPRO

SEQUENCE OF CONSTRUCTION:

ULTIMATE DEVELOPED CONDITION

THIS SITE WILL HAVE FREE DISCHARGE TO THE AMOLE DEL NORTE CHANNEL VIA STORM SEWER ORIGINATING ON-SITE AND RUNNING IN TOWER RD TO THE AMOLE CHANNEL. ALL UPSTREAM OFFSITE DRAINAGE WEST OF AND INCLUDING 86TH STREET WILL BE DIVERTED AROUND THIS SITE BY THE STORM SEWERS IN 86TH STREET AND TOWER RD. THAT STORM SEWER DIVERTS THE UPSTREAM OFFSITE DRAINAGE INTO THE TOWER/PARK POND SOUTH OF THIS PROJECT, TO BE CONSTRUCTED SEPARATELY AS PART OF SAD-222. SURFACE DRAINAGE IN TOWER RD BELOW THE PARK/POND WILL MEET THE ARTERIAL STREET DRAINAGE CRITERIA (LIMITED 10YR SPREAD OF WATER) WITHOUT STORM SEWER ALONG ENTIRE FRONTAGE OF THIS PROJECT. ALL ONSITE DRAINAGE AND THAT IN EUCARIZ AVENUE WILL FLOW TO THE SOUTHEAST CORNER OF THIS PROJECT VIA A COMBINATION OF SURFACE DRAINAGE AND STORM SEWER IN ACCORDANCE WITH THE DRAINAGE CRITERIA OF THE CITY OF ALBUQUERQUE.

UNIT 1

ALL OF THE SITE CURRENTLY WITHIN THE CITY LIMITS WILL BE GRADED WITH THE FIRST UNIT. THE FUTURE DEVELOPMENT SHOWN HEREON IS FOR INFORMATION ONLY AND WILL BE GRADED ONLY AS NECESSARY TO BALANCE EARTHWORK. WITH UNIT 1, NEITHER THE UPSTREAM (86TH STREET) NOR THE DOWNSTREAM (TOWER RD) STORM SEWER AND APPURTENANCES WILL BE CONSTRUCTED THEREFORE TEMPORARY PONDS WILL BE BUILT AND MAINTAINED BY THE DEVELOPER. ONE AT THE NORTHWEST CORNER TO TEMPORARILY INTERCEPT THE UPSTREAM OFF-SITE DRAINAGE AND ONE IN THE EXTREME SOUTHEAST CORNER TO TEMPORARILY RECEIVE THE DEVELOPED FLOWS FROM ON-SITE AND EUCARIZ. ADDITIONALLY THREE SMALL PONDS WILL TEMPORARILY RETAIN FLOWS FROM THE CUL-DE-SACS ON THE EAST SIDE OF THIS SITE.

UNIT 2

UNIT 2 WILL CONSTRUCT THE ONSITE STORM SEWER FROM VISTA VIVA STREET TO THE TEMPORARY POND IN THE SOUTHEAST CORNER OF THIS SITE. A FLOODWALL MAY BE CONSTRUCTED ALONG THE TOWER RD FRONTAGE IF SAD-222 HAS NOT DIVERTED THE TOWER RD FLOODPLAIN INTO THE PARK/POND. A TEMPORARY DIVERSION BERM WILL BE BUILT ALONG THE UNIT 3 FRONTAGE OF TOWER RD TO PREVENT FLANKING OF THE FLOODWALL.

UNIT 3

UNIT 3 WILL COMPLETE THE ONSITE STORM SEWER AND THE FLOODWALL ALONG TOWER RD IF SAD-222 IS STILL NOT CONSTRUCTED.

PONDS

REMOVAL OF THE NORTHWEST POND MAY OCCUR AFTER THE [illegible]TH STREET STORM SEWER IS FUNCTIONAL AND ACCEPTED BY THE CITY FOR MAINTENANCE. REMOVAL OF THE THREE SMALL PONDS ON THE EAST END OF VISTA ESTRELLA, VISTA VOLCAN AND VISTA TIJERAS WILL OCCUR WHEN THOSE STREETS ARE EXTENDED EAST AS SHOWN IN THE FUTURE PORTION OF THE PLAN ON THIS SHEET. THE POND AT THE SOUTHEAST CORNER OF THE SITE IS SIZED FOR ALL ONSITE AREA AND EUCARIZ AVENUE INCLUDING THE FUTURE DEVELOPMENT SHOWN HERE ON. IT MAY BE REMOVED AFTER THE OUTFALL STORM SEWER IN TOWER RD IS CONSTRUCTED. ALL TEMPORARY PONDS WILL BE MAINTAINED BY THE DEVELOPER.

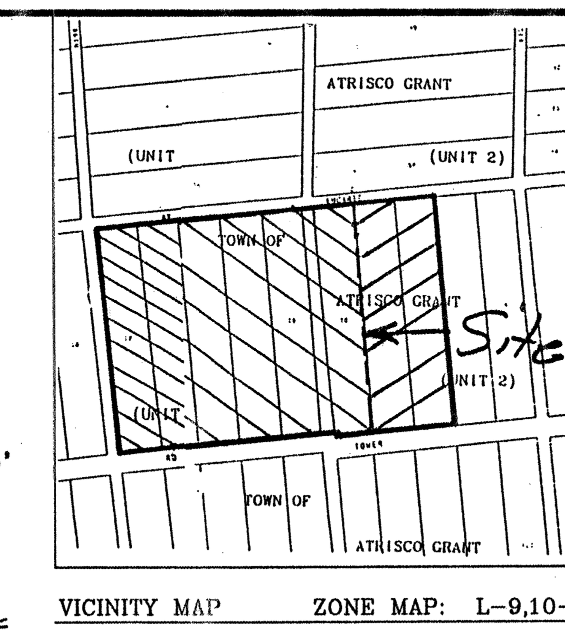
NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DTL. THIS SHT. AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOWLINE ELEVATIONS.
7. TOPOGRAPHY IS BASED ON SURVEY BY DAGGETT ENGINEERING, AND SURVEYING, MAY 1998.

60' 30' 0 60' 120'

SCALE: 1" = 60'

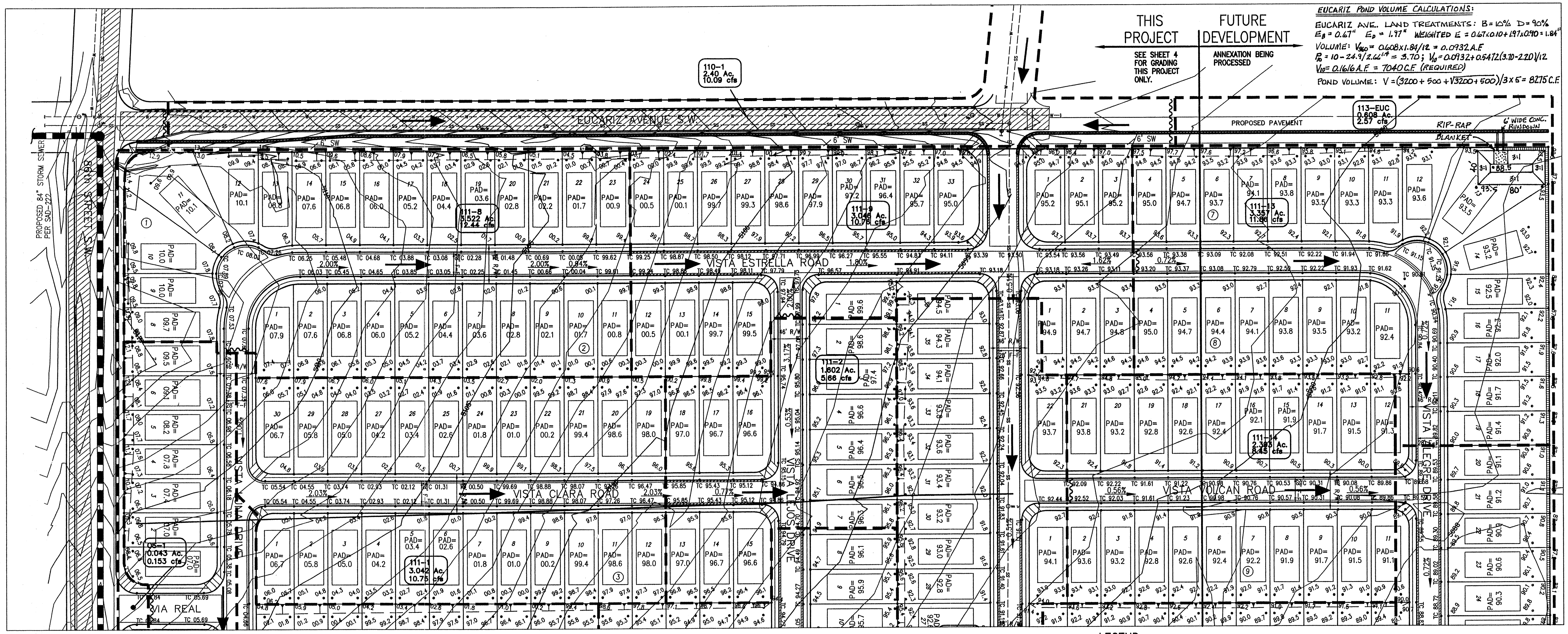
NOTE: A TEMPORARY RETENTION POND TO BE REMOVED WHEN EUCARIZ AVENUE IS PAVED TO UNSER BLVD. BY OTHERS.



VICINITY MAP ZONE MAP: L-9,10-Z

LEGAL DESCRIPTION

TRACTS 12 - 17 TOWN OF ATRISCO, UTIT 2.



EUCARIZ POND VOLUME CALCULATIONS:

EUCARIZ AVE. LAND TREATMENTS: B = 10% D = 90%

$E_B = 0.67''$ $E_D = 1.97''$ WEIGHTED $E = 0.67 \times 0.10 + 1.97 \times 0.90 = 1.84''$

VOLUME: $V_{360} = 0.608 \times 1.84/12 = 0.0932$ A.F

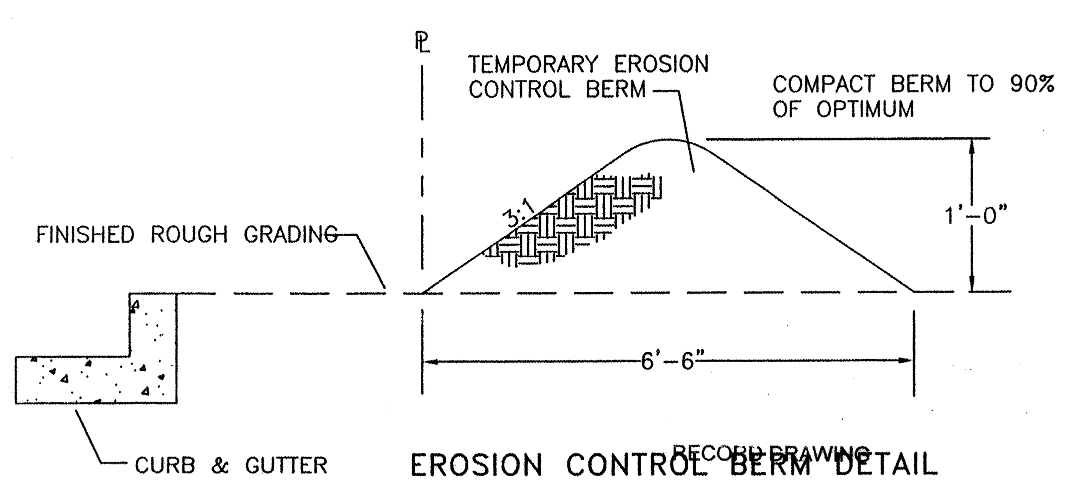
$P_{10} = 10 - 24.9/2.66^{1.4} = 3.70$; $V_{10} = 0.0932 + 0.5472(3.70 - 2.20)/12$

$V_{10} = 0.1616$ A.F. = 7040 C.F. (REQUIRED)

POND VOLUME: $V = (3200 + 500 + \sqrt{3200 + 500})/3 \times 5 = 8275$ C.F.

LEGEND

TC 00.00	TOP OF CURB ELEVATION
00.0	PROPOSED SPOT ELEVATION
PAD=99.5	FINISHED PAD ELEVATION
	PROPOSED STANDARD CURB & GUTTER
	PROPOSED MOUNTABLE CURB & GUTTER
	PROPOSED DRAINAGE BASIN
OE	EXISTING OVERHEAD ELECTRIC
SS	EXISTING SANITARY SEWER
W	EXISTING WATERLINE
	SD BY SAD-222
	WATER BLOCK
	EXISTING PAVEMENT
111-14 2.393 Ac. 8.45 cfs	DRAINAGE BASIN DATA
	DRAINAGE BASIN FLOW ARROW
	PROPOSED RETAINING WALL
	PROPOSED STORM DRAIN & MANHOLE
	PROPOSED STORM DRAIN INLET
-5135-	EXISTING CONTOUR
TC= FL=	EXISTING TOP OF CURB EXISTING FLOWLINE
x 00.00	EXISTING SPOT ELEVATION
	EXISTING CURB AND GUTTER
	EXISTING SANITARY SEWER MANHOLE
	EXISTING WATER VALVE
	EXISTING POWER POLE
	EXISTING TELEPHONE PEDESTAL
	EXISTING FIRE HYDRANT
	EXISTING STORM SEWER MANHOLE
	EXISTING DROP INLET
	SLOPE INDICATOR
	TOE OF SLOPE
	EX MOUNTABLE CURB & GUTTER
	EX STANDARD 8" CURB & GUTTER
0.56%	STREET SLOPE ARROW
	DRAINAGE BASIN BOUNDARY



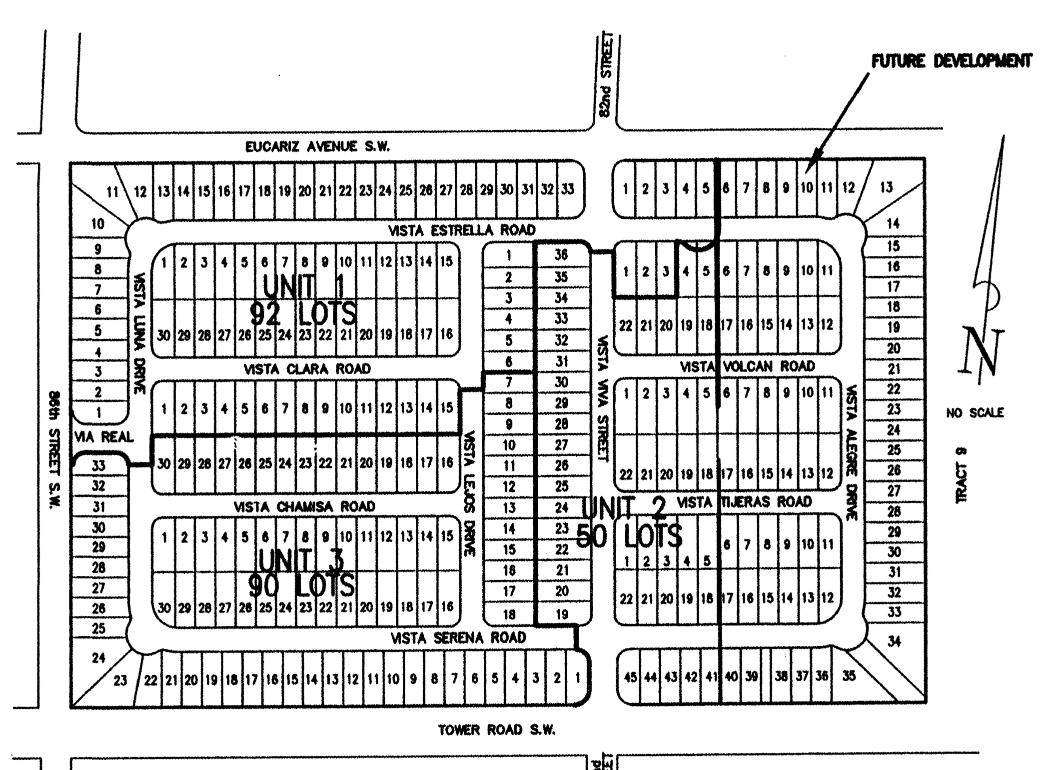
EROSION CONTROL BERM DETAIL

N.T.S.

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674



UNIT BOUNDARY KEY MAP

APPROVED FOR ROUGH GRADING ± 1 FT.

CITY HYDROLOGY DATE

DAGGETT ENGINEERING & SURVEYING
2125 CORTE DE CHAMISA NW
ALBUQUERQUE, NM 87120
(505) 836-2657

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION GRADING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
Approved @ DRB				

City Project No. 607183 | Zone Map No. L9-L10 | Sheet 5 ~~X~~ Of 19 ~~8~~

No.	Date	Remarks	BY

Revisions

Design		
Designed By	K.C.D.	Date 9-98
Drawn By	K.C.D.	Date 9-98
Checked By	K.C.D.	Date 9-98

ENGINEER'S SEAL

KEVIN C. DAGGETT, STATE OF NEW MEXICO, 13651, REGISTERED PROFESSIONAL ENGINEER — 9/21/98 REVISION 4/14/99 KCD

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

BENCH MARKS

STATION IS A STANDARD C.O.A. BRASS CAP SET IN CONC. 0.3' ABOVE GROUND AND STAMPED "7-K9". TO REACH VICINITY OF STATION FROM INTERSECTION OF I-40 & UNSER BLVD., TRAVEL SOUTH ON UNSER BLVD. 1.3 MILES TO CENTRAL AVE., THEN WEST ON CENTRAL AVE. 0.58 MILES TO STATION ON THE MEDIAN OF CENTRAL AVE. tHE STATION IS 530' EAST OF THE CENTERLINE OF 90TH ST.

X = 355815.77 Y = 1482842.09 Z = 5137.36

AS BUILT INFORMATION

CONTRACTOR	Hydrosystems		2/01
WORK STAKED BY	DES	DATE	2/01
INSPECTOR'S ACCEPTANCE BY	R. Baca	DATE	3/01
FIELD VERIFICATION BY	DES	DATE	8/01
DRAWINGS CORRECTED BY	DMG	DATE	8/01

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

FOR INFORMATION ONLY

SCANNED BY MESA REPRO

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7. TOPOGRAPHY IS BASED ON SURVEY BY DAGGETT ENGINEERING, AND SURVEYING, MAY 1998.

N

60' 30' 0 60' 120'
SCALE: 1" = 60'

THIS PROJECT — SEE SHEET 4 FOR GRADING THIS PROJECT ONLY.

FUTURE DEVELOPMENT — ANNEXATION BEING PROCESSED

LEGEND

Symbol	Description	Symbol	Description
TC 00.00	TOP OF CURB ELEVATION	—5135—	EXISTING CONTOUR
00.0	PROPOSED SPOT ELEVATION	TC= / FL=	EXISTING TOP OF CURB / EXISTING FLOWLINE
PAD=99.5	FINISHED PAD ELEVATION	x 00.00	EXISTING SPOT ELEVATION
	PROPOSED STANDARD CURB & GUTTER		EXISTING CURB AND GUTTER
	PROPOSED MOUNTABLE CURB & GUTTER		EXISTING SANITARY SEWER MANHOLE
	PROPOSED DRAINAGE BASIN		EXISTING WATER VALVE
— — — —OE—	EXISTING OVERHEAD ELECTRIC		EXISTING POWER POLE
— — — —SS—	EXISTING SANITARY SEWER		EXISTING TELEPHONE PEDESTAL
— — — —W—	EXISTING WATERLINE		EXISTING FIRE HYDRANT
	SD BY SAD-222		EXISTING STORM SEWER MANHOLE
	WATER BLOCK		EXISTING DROP INLET
	EXISTING PAVEMENT		SLOPE INDICATOR
111-14 2.393 Ac. 8.45 cfs	DRAINAGE BASIN DATA		TOE OF SLOPE
	DRAINAGE BASIN FLOW ARROW		EX MOUNTABLE CURB & GUTTER
	PROPOSED RETAINING WALL		EX STANDARD 8" CURB & GUTTER
	PROPOSED STORM DRAIN & MANHOLE	0.56%	STREET SLOPE ARROW
②	PROPOSED STORM DRAIN INLET & NUMBER		DRAINAGE BASIN BOUNDARY

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674

APPROVED FOR ROUGH GRADING = 1 FT.

CITY HYDROLOGY — DATE

DAGGETT ENGINEERING & SURVEYING
2125 CORTE DE CHAMISA NW
ALBUQUERQUE, NM 87120
(505) 836-2657

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION GRADING PLAN

Design Review Committee: Approved @ DRB — City Engineer Approval — Last Design Update — Mo./Day/Yr. — Mo./Day/Yr.

City Project No. 6071.83 — Zone Map No. L9-L10 — Sheet 6 Of 19

No.	Date	Remarks	BY
		Revisions	
		Design	
Designed By	K.C.D.	Date 9-98	
Drawn By	K.C.D.	Date 9-98	
Checked By	K.C.D.	Date 9-98	

ENGINEER'S SEAL
KEVIN C. DAGGETT, STATE OF NEW MEXICO, 13651, REGISTERED PROFESSIONAL ENGINEER — 9/21/98

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

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X = 355815.77 Y = 1482842.09 Z = 5137.36

AS BUILT INFORMATION

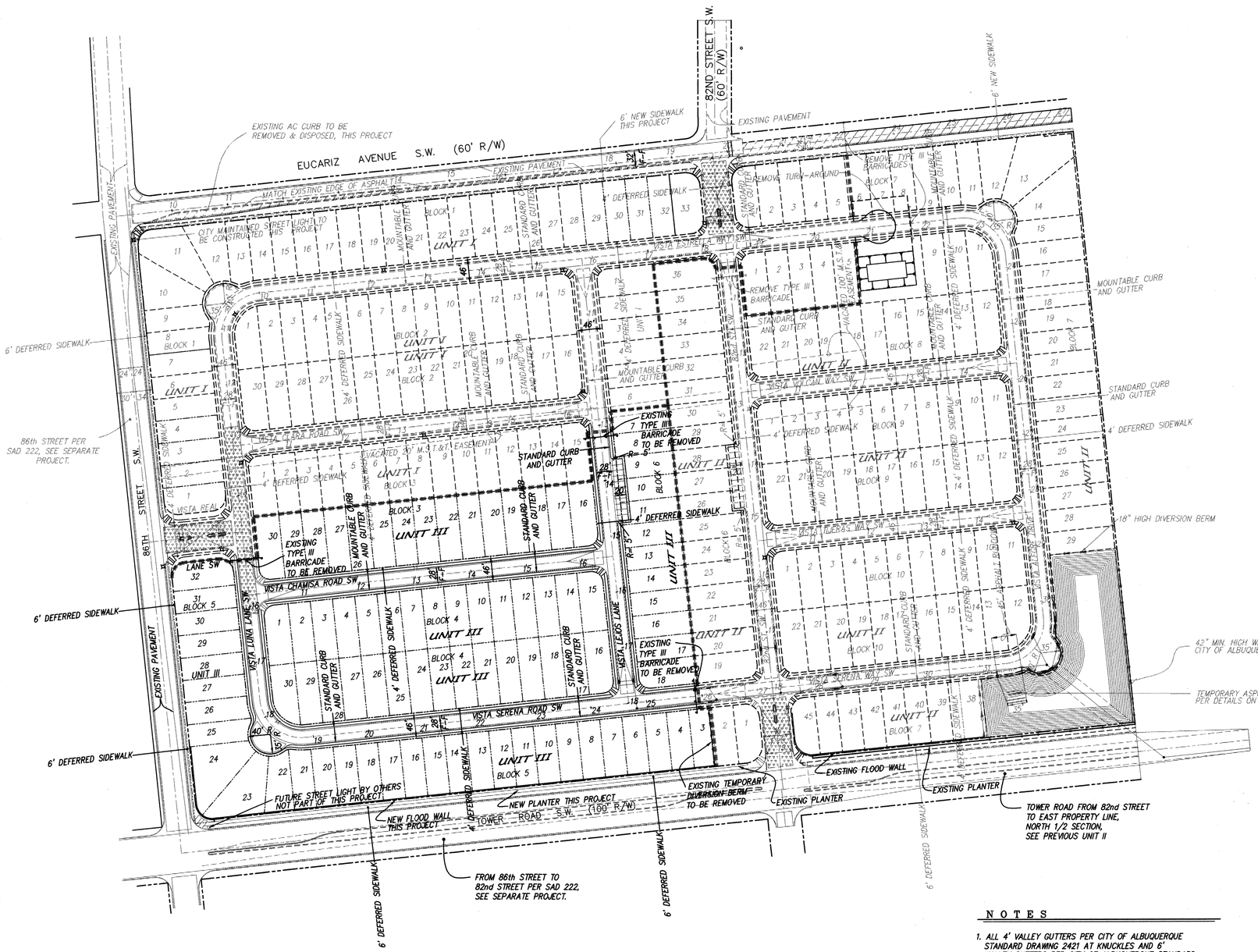
CONTRACTOR	Hydrosystems	DATE	2/01
WORK STAKED BY	DES	DATE	2/01
INSPECTOR'S ACCEPTANCE BY	R. Bagu	DATE	3/01
FIELD VERIFICATION BY	DES	DATE	8/01
DRAWINGS CORRECTED BY	DMG	DATE	8/01

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

FOR INFORMATION ONLY

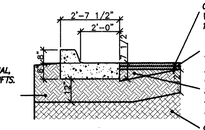
SCANNED BY MESA REPRO



LEGEND

- 5" ENTRANCE PAVEMENT
- NEW 6' SIDEWALK CONSTRUCTED THIS PROJECT
- 50' CROWN TRANSITION PER COA STD. DWG. 2401 THIS PROJECT
- ROLL CURB & GUTTER
- STANDARD 8" CURB & GUTTER
- RED BRICK TEXTURED CONCRETE PER DWG #2411, THIS PROJECT.
- EUCARIZ & RESIDENTIAL PAVING THIS PROJECT
- MEDIAN CURB & GUTTER
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- PROPERTY LINE
- HANDICAP RAMPS PER COA DWG #2418 THIS PROJECT CASE II
- TYPE III BARRICADES THIS PROJECT
- STREET LIGHT

12" SUBGRADE SOIL. R-VALUE > 50 RESIDENTIAL, 62 ENTRANCE, PLACED IN 2-6" COMPACTED LIFTS. 95% MIN. COMPACTION, AT OPT. MOISTURE ± 2.0%, ASTM D1557, OR OPT MOISTURE TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL PASSING THE NO. 200 SIEVE. TO EXTEND FULL WIDTH OF ROADWAY TO 1.0' BACK OF NEW CURB PER SECTION 301.4.1.1



1-1/2" ASPHALT CONC. TYPICAL FINISH COURSE PLACED AFTER ALL MANHOLE, VALVES COVERS/RINGS ARE SET TO GRADE. 1500 LBS. STABILITY TYPE B GRADATION.

1-1/2" ASPHALT CONCRETE 1500 LBS. STABILITY, TYPE B GRADATION.

5" SUBBASE TO BE ADDED AFTER COMPLETION OF CURB AND TAPERED TO 0" IN 10' FROM EDGE OF GUTTER. SUBGRADE PREP SHALL NOT EXTEND BELOW THE BOTTOM OF THE GUTTER PER SECTION 301.4.1

90% MIN. COMPACTION

NOTE: IF R-VALUE IS LESS THAN 50 CONTRACTOR WILL REPLACE 12" OF SUBGRADE WITH MATERIAL WITH AN R-VALUE OF 50 OR GREATER. IN RESIDENTIAL STREET, R-VALUE OF 62 IS REQUIRED FOR 5" ENTRANCE PAVING.

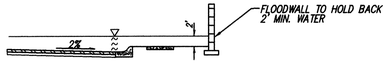
RESIDENTIAL PAVEMENT SECTION

N.T.S. (PER CITY STD. DWG. 2405)

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674



TYPICAL FLOODWALL DETAIL

N.T.S.

TYPICAL STREET SECTION

N.T.S.

NOTES

1. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED. THEN THE "F" LENGTH AS SHOWN IN DRAWING 2441 SHALL MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
4. TRANSITION FROM ROLL CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE DRAWING 2418, UNLESS OTHERWISE SPECIFIED.
5. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50', PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.
6. ALL INTERIOR SUBDIVISION STREETS ARE PRIVATE.

N

100' 50 0 100 200'

SCALE: 1" = 100'

8118VIST/UNIT 3/8118PAV/09-01-99

AS BUILT INFORMATION

CONTRACTOR	Hydro Systems	DATE 2/01
WORK STAKED BY	DES	DATE 2/01
INSPECTOR ACCEPTANCE BY	R Baca	DATE 3/01
FIELD VERIFICATION BY	DES	DATE 8/01
DRAWINGS CORRECTED BY	DMG	DATE 8/01

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

CITY OF ALBUQUERQUE ACS MONUMENT "9-L9"

NEW MEXICO STATE PLANE COORDINETES (CENTRAL ZONE) NAD 1927

X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -0°16'31"

G - G = 0.99967955, ELEVATION = 5101.34'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 9-9-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	JDH	10-98
DRAWN BY	KJS	10-98
CHECKED BY	DMG	10-98

dhg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION UNIT III MASTER PAVING PLAN

DESIGN REVIEW COMMITTEE: 3/9/01 KB DEC 12 1999 DESIGN REVIEW COMMITTEE

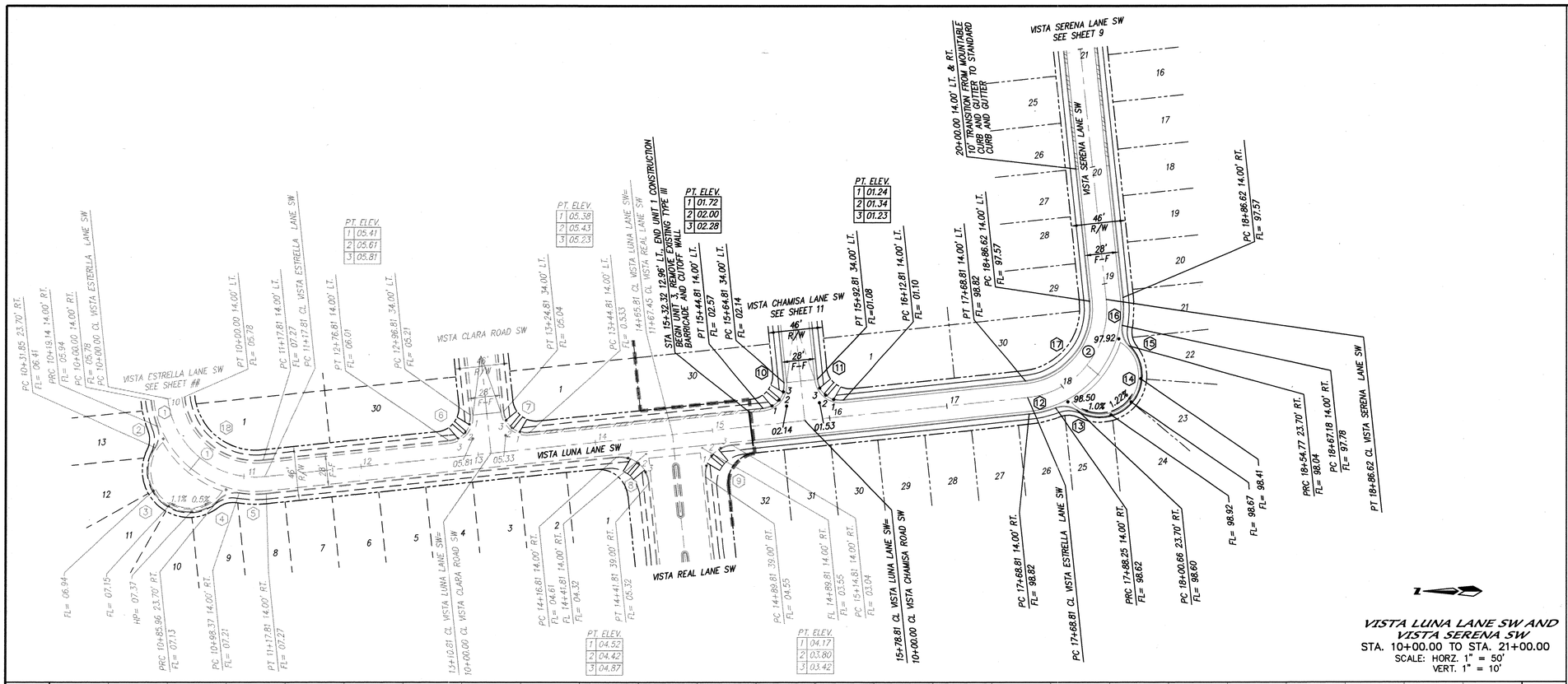
CITY ENGINEER APPROVAL: APPROVED APR 9 2001 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

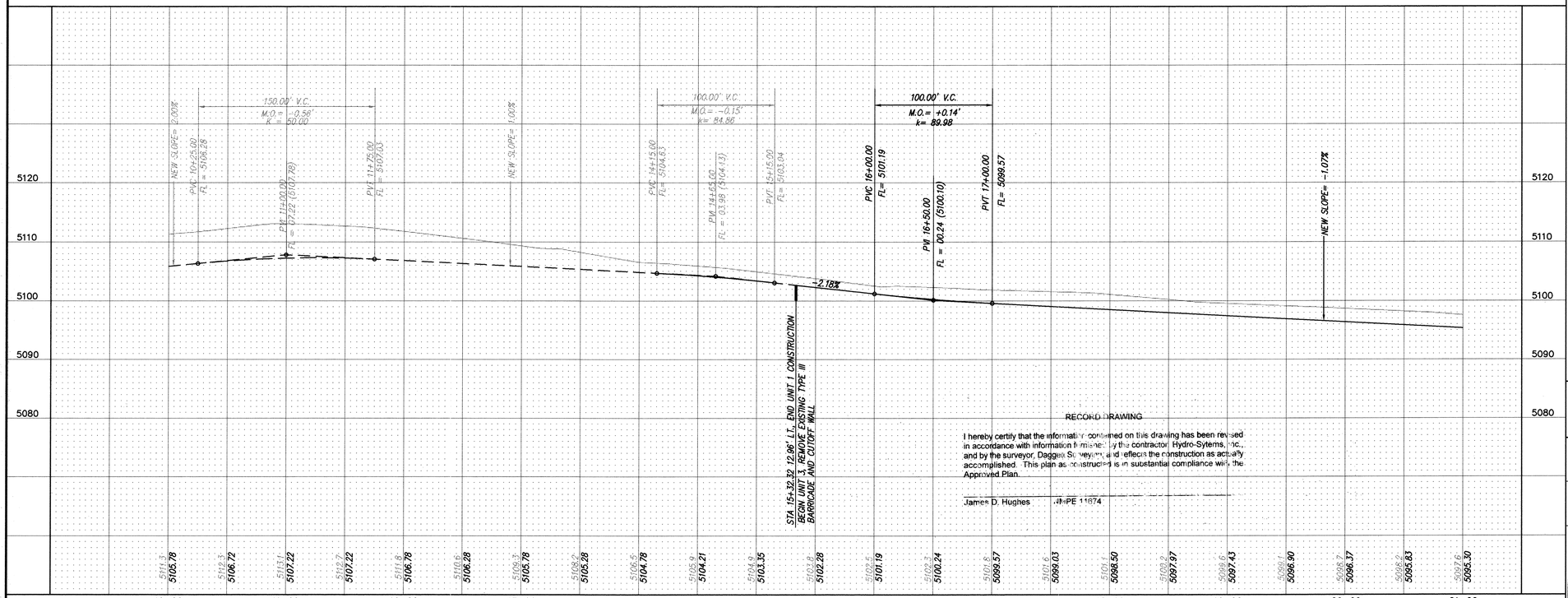
CITY PROJECT NO. 607183 | ZONE MAP NO. L-9, L-10 | SHEET 7 OF 19

SCANNED BY MESA REPRO

F:\DATA\DWGS\98JOBS\8118VIST\UNIT3\8118PAV.DWG Thu Sep 30 13:07:23 1999 PLOTTED BY KJS



VISTA LUNA LANE SW AND VISTA SERENA SW
STA. 10+00.00 TO STA. 21+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED. THEN THE "F" LENGTH AS SHOWN IN DRAWING 2441 SHALL MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
4. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE DRAWING 2401.
5. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50', PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.
6. ALL INTERIOR SUBDIVISION STRRETS ARE PRIVATE.

CURVE DATA – DESCRIBES CENTERLINE

(1) Δ = 90°00'00" R = 75.00' L = 117.81' T = 75.00'

(2) Δ = 90°00'00" R = 75.00' L = 117.81' T = 75.00'

CURVE DATA – DESCRIBES FACE OF NEW CURB

(1) Δ = 14°50'56" R = 89.00' L = 23.07' T = 11.60'

(2) Δ = 54°22'07" R = 20.00' L = 18.98' T = 10.27'

(3) Δ = 169°02'21" R = 35.00' L = 103.26' T = N/A

(4) Δ = 54°22'07" R = 20.00' L = 18.98' T = 10.27'

(5) Δ = 14°50'56" R = 89.00' L = 23.07' T = 11.60'

(6) Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'

(7) Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'

(8) Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'

(9) Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'

(10) Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'

(11) Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'

(12) Δ = 14°50'56" R = 89.00' L = 23.07' T = 11.60'

(13) Δ = 54°22'07" R = 20.00' L = 18.98' T = 10.27'

(14) Δ = 169°02'21" R = 35.00' L = 103.26' T = N/A

(15) Δ = 54°22'07" R = 20.00' L = 18.98' T = 10.27'

(16) Δ = 14°50'56" R = 89.00' L = 23.07' T = 11.60'

(17) Δ = 90°00'00" R = 61.00' L = 95.82' T = 61.00'

(18) Δ = 90°00'00" R = 61.00' L = 95.82' T = 61.00'

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes JNPE 11674

AS BUILT INFORMATION

CONTRACTOR	Hydrosystems	
WORK STAKED BY	DES	DATE 2/01
INSPECTOR'S ACCEPTANCE BY	R. Baca	DATE 3/01
FIELD VERIFICATION BY	DES	DATE 8/01
DRAWINGS CORRECTED BY	DMG	DATE 8/01
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

CITY OF ALBUQUERQUE ACS MONUMENT "8-L9"
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -0°16'31"
G -G = 0.99967955, ELEVATION = 5101.34'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 11674 — 9-9-99

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGN	JDH	12/98
DRAWN BY	KJS	12/98
CHECKED BY	DMG	12/98

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: *VISTA SANDIA SUBDIVISION UNIT III PAVING IMPROVEMNETS*

DESIGN REVIEW COMMITTEE — 3/9/01 KK — DEC 1 2 1999 — DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL — APPROVED — APR 9 2001 — CITY ENGINEER

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
607183	L-9, L-10	8	19

8118VIST/UNIT 3/PPLUNA/09-01-99/ACH

SCANNED BY MESA REPRO

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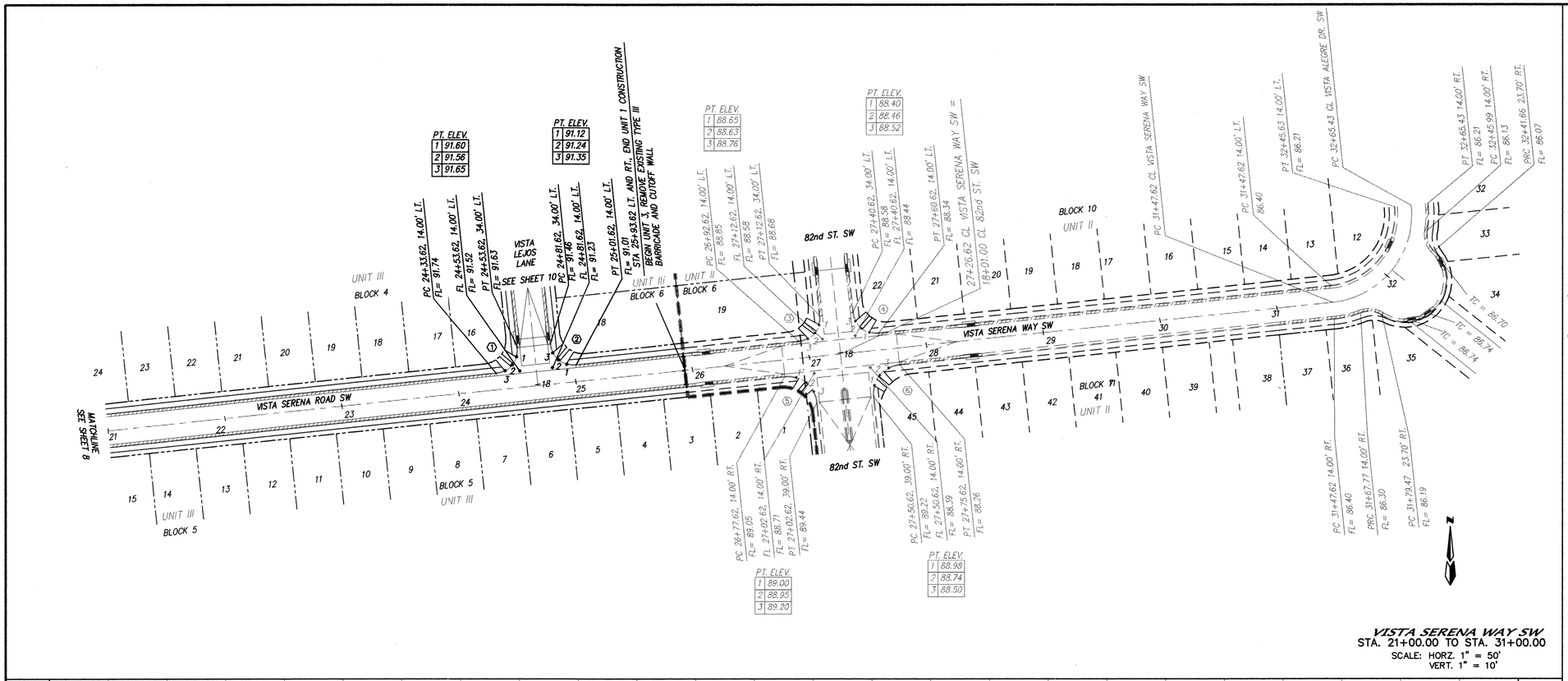

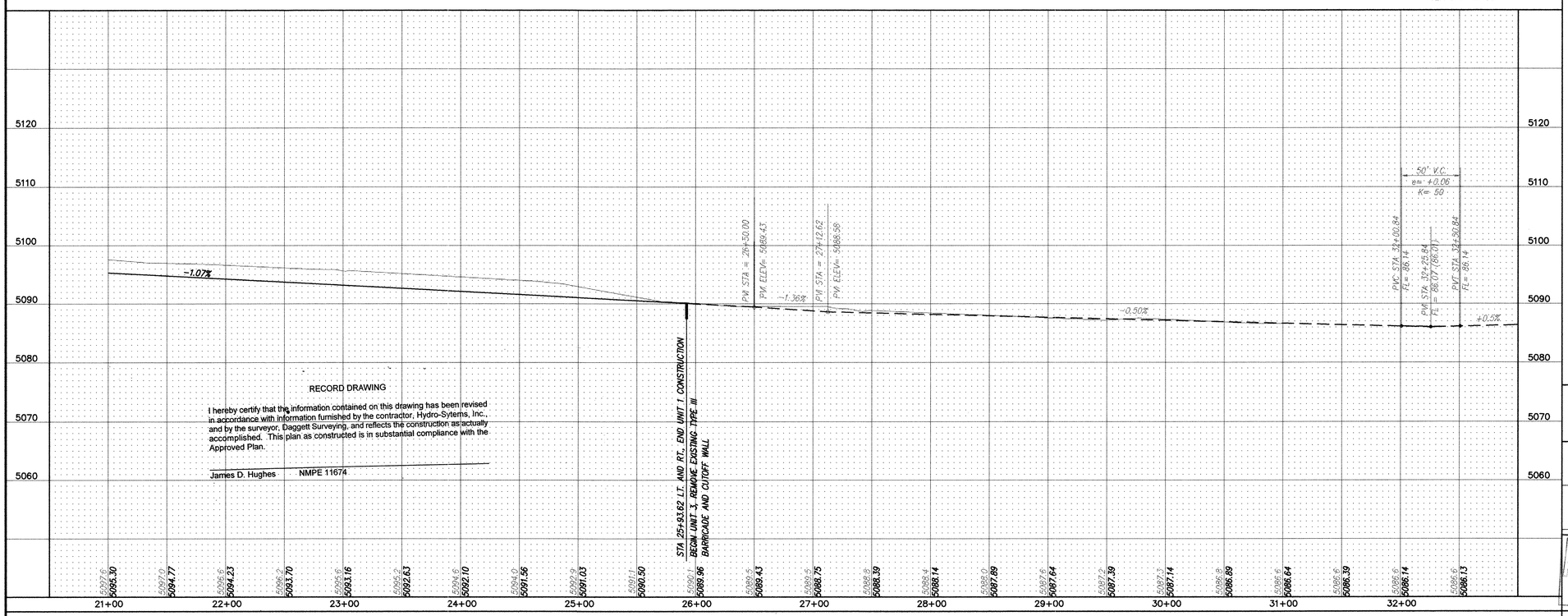

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Systems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674

8118VIST/UNIT 3/PPSEREN/09-01-99/ACH

NOTES

1. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED. THEN THE "F" LENGTH AS SHOWN IN DRAWING 2441 SHALL MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
4. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE DRAWING 2401.
5. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50', PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.
6. ALL INTERIOR SUBDIVISION STRRETS ARE PRIVATE.

CURVE DATA - DESCRIBES FACE OF CURB

① Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	② Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	③ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'
④ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	⑤ Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'	⑥ Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'

AS BUILT INFORMATION
CONTRACTOR Hydro Systems
WORK STAKED BY OES DATE 2/01
INSPECTOR'S ACCEPTANCE BY R. Bess DATE 3/01
FIELD VERIFICATION BY OES DATE 6/01
DRAWINGS CORRECTED BY DMG DATE 8/01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ACS MONUMENT "8-L9"
NEW MEXICO STATE PLANE COORDINETES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -0°16'31"
G -G = 0.99967955, ELEVATION = 5101.34'

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
JAMES D. HUGHES
NEW MEXICO
11674
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGN		
DESIGNED BY	JDH	1/99
DRAWN BY	KJS	1/99
CHECKED BY	DMG	1/99

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
PROJECT TITLE
UNIT III
PLAN AND PROFILE PLAN

DESIGN REVIEW COMMITTEE: APPROVED DEC 12 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 9 2001 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 607183 | ZONE MAP NO. L-9,L-10 | SHEET 9 OF 19

SCANNED BY MESA REPRO
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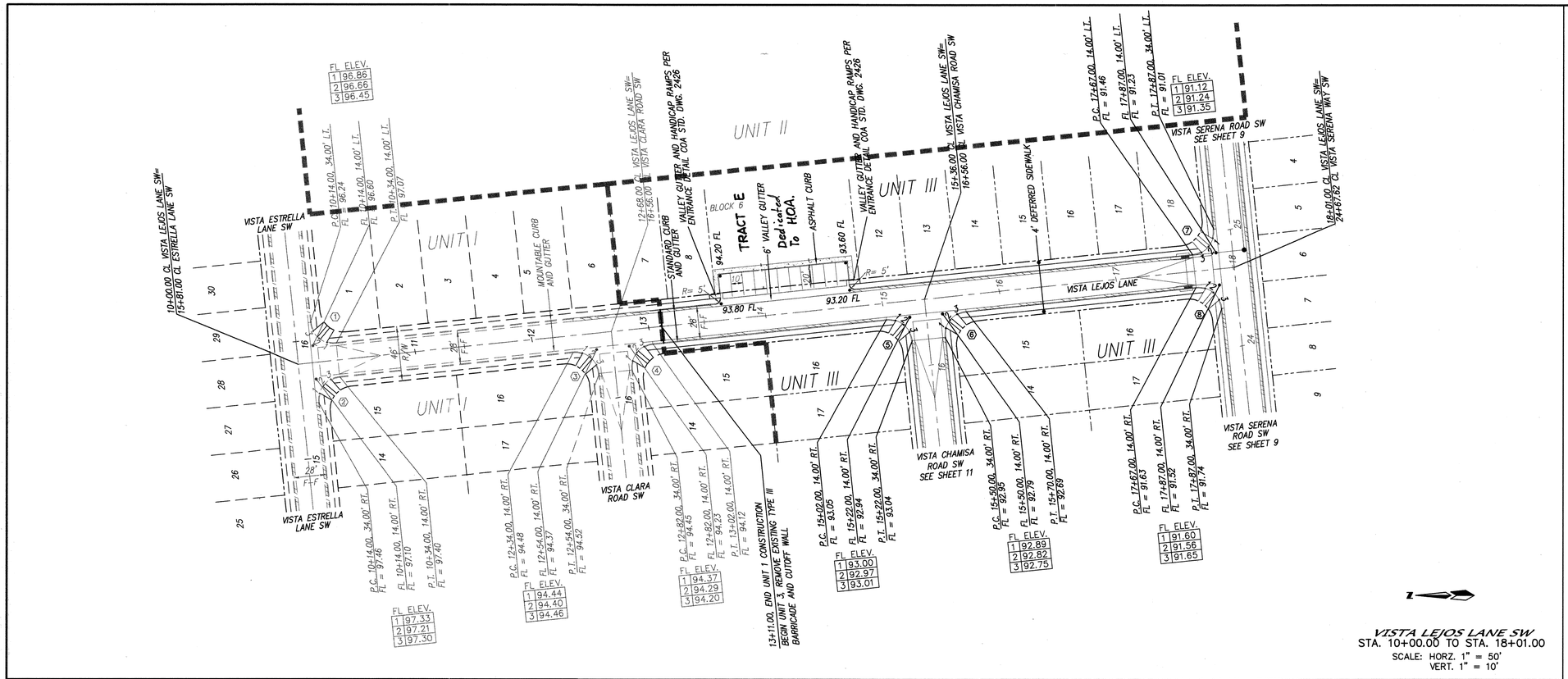

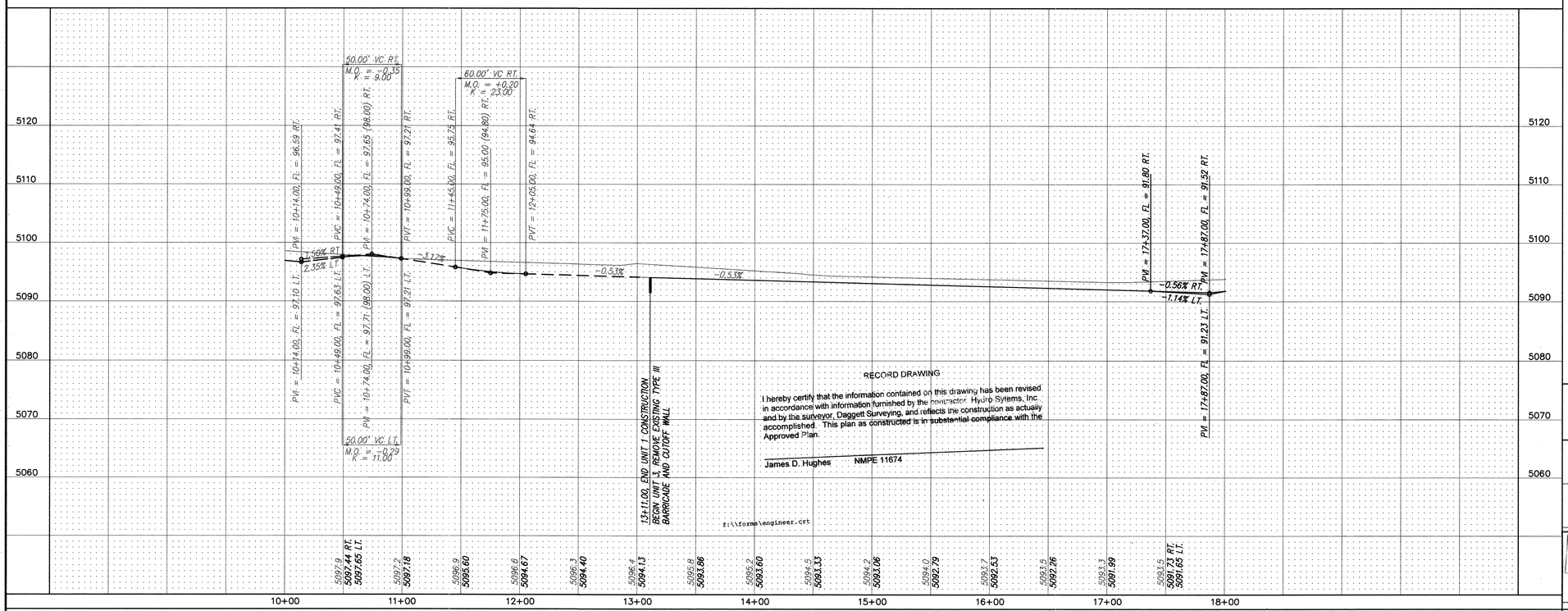

8118VIST/UNIT 3/8118PP5/09-01-99/ACH

NOTES

1. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED. THEN THE "F" LENGTH AS SHOWN IN DRAWING 2441 SHALL MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
4. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE DRAWING 2401.
5. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50', PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.
6. ALL INTERIOR SUBDIVISION STREETS ARE PRIVATE.

CURVE DATA – DESCRIBES FACE OF CURB

① Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	② Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	③ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'
④ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	⑤ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	⑥ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'
⑦ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	⑧ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	

AS BUILT INFORMATION

CONTRACTOR	Hydrosystems	
WORK STAKED BY	DES	DATE 2/01
INSPECTOR'S FIELD CHANGE BY	R. Baca	DATE 3/01
VERIFICATION BY	DES	DATE 4/01
AS-BUILTS CORRECTED BY	DHC	DATE 8/01
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

CITY OF ALBUQUERQUE ACS MONUMENT "8-L9"
NEW MEXICO STATE PLANE COORDINETES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -0°16'31"
G -G = 0.99967935, ELEVATION = 5101.34'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO 11674 REGISTERED PROFESSIONAL ENGINEER 9-9-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	JDH	DATE 12-98
DRAWN BY	MJR, WLV, KJS	DATE 12-98
CHECKED BY	DMG	DATE

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION UNIT III PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE: APPROVED 3/9/01 DEC 1 2 1999 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED APR 9 2001 CITY ENGINEER

LAST DESIGN UPDATE: MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
607183	L-9,L-10	10	19

SCANNED BY MESA REPRO

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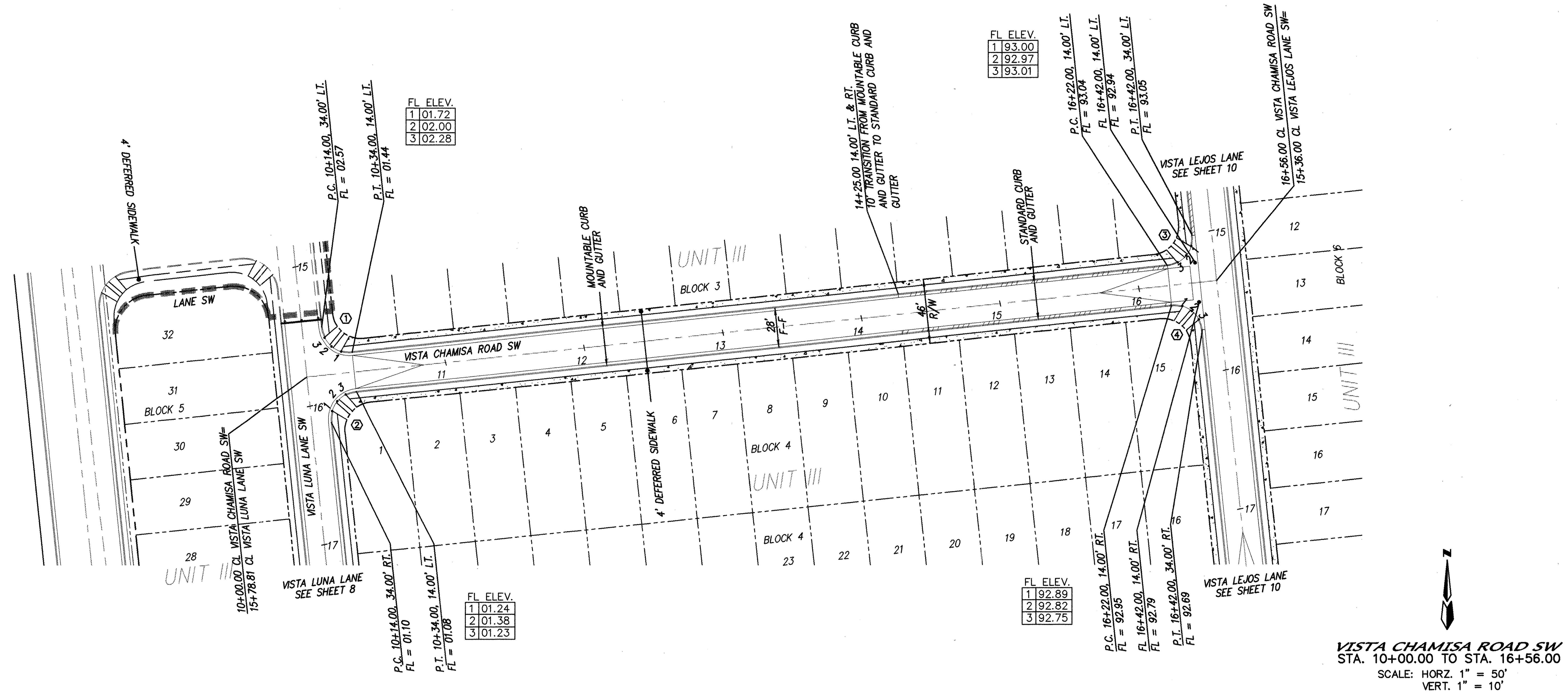
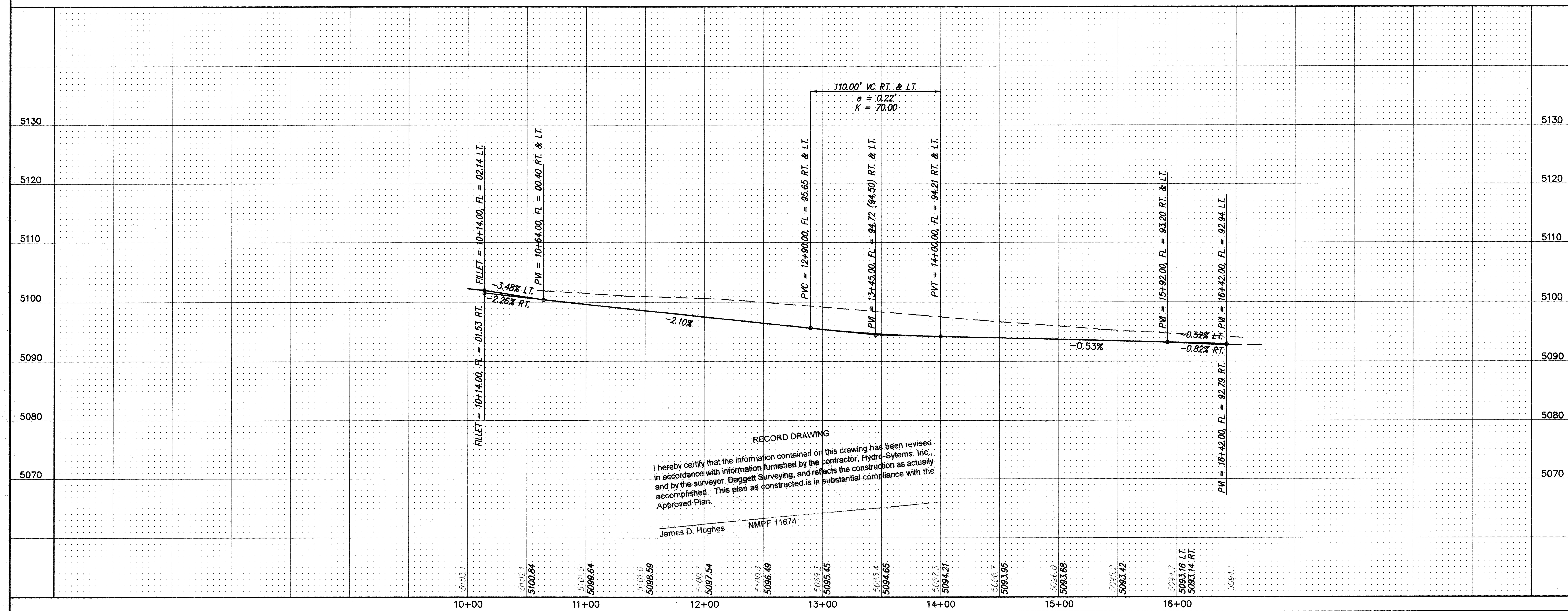


VISTA CHAMISA ROAD SW
STA. 10+00.00 TO STA. 16+56.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674

NOTES

1. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED. THEN THE "F" LENGTH AS SHOWN IN DRAWING 2441 SHALL MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
4. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE DRAWING 2401.
5. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50', PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.
6. ALL INTERIOR SUBDIVISION STREETS ARE PRIVATE.

CURVE DATA – DESCRIBES FACE OF CURB

① Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	② Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'	③ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'
④ Δ = 90°00'00" R = 20.00' L = 31.42' T = 20.00'		

AS BUILT INFORMATION
CONTRACTOR Hydrosystems DATE 2/01
WORK STAKED BY DATE
INSPECTOR'S ACCEPTANCE BY DES DATE 8/01
FIELD VERIFICATION BY DMG DATE 8/01
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ACS MONUMENT "8-L9"
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA = -0°16'31"
G -G = 0.99967955, ELEVATION = 5101.34'

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
9-9-99

REMARKS
REVISIONS
NO. | DATE | BY

DESIGN
DESIGNED BY JDH DATE 12-98
DRAWN BY MJR, WLV DATE 12-98
CHECKED BY DMG DATE 12-98

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: *VISTA SANDIA SUBDIVISION UNIT III PAVING IMPROVEMENTS*

DESIGN REVIEW COMMITTEE: APPROVED 3/9/01 DEC 1 2 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 9 2001 CITY ENGINEER
LAST DESIGN UPDATE
MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 607183
ZONE MAP NO. L-9,L-10
SHEET 11 OF 19

8118VIST/UNIT 3/8118PP2/09-01-99/ACH

SCANNED BY MESA REPRO

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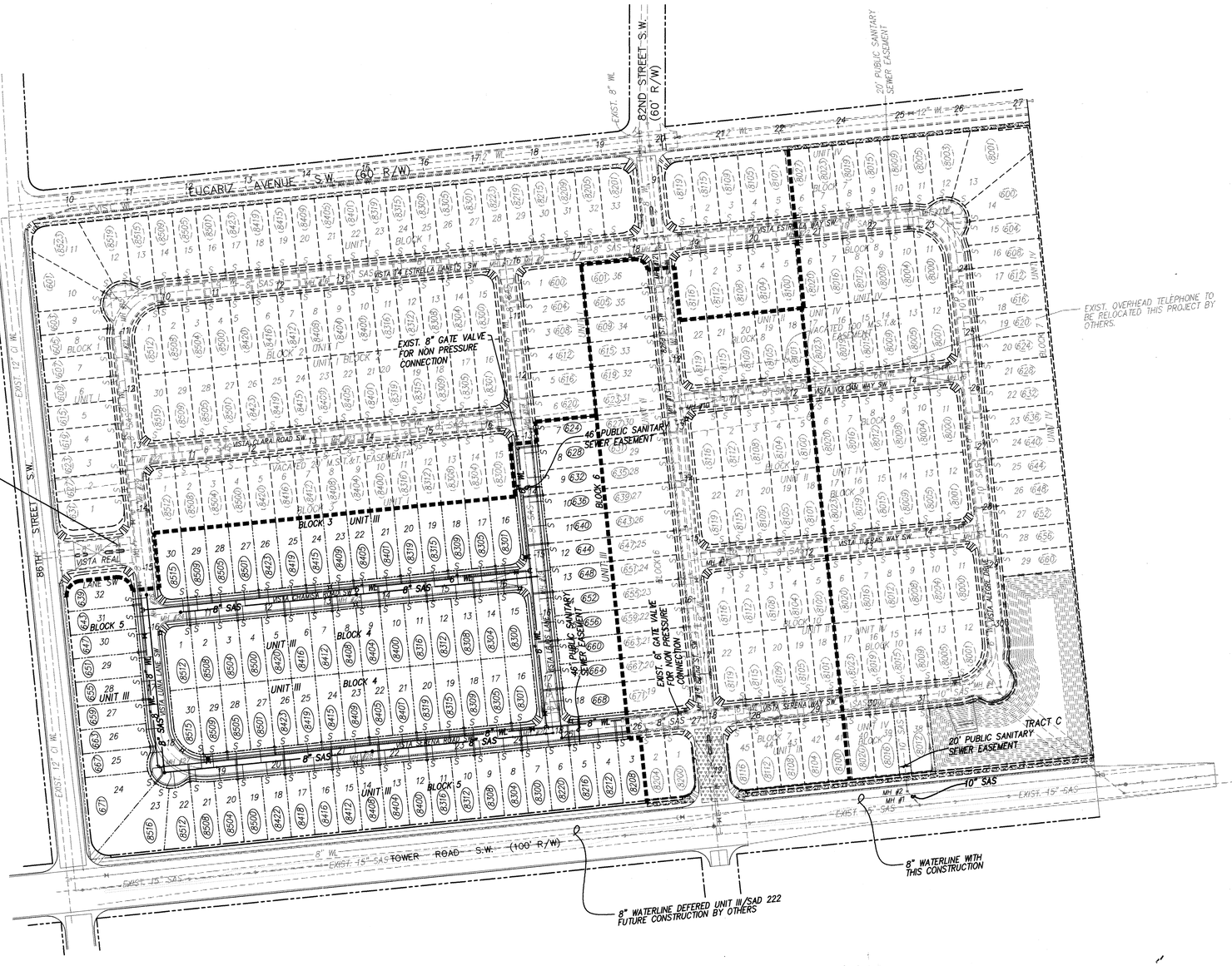


NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. ALL FIRE HYDRANTS ARE 4' BURY UNLESS OTHERWISE SPECIFIED.

WATER SHUT-OFF NOTES

1. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200, FIVE (5) DAYS PRIOR TO NECESSARY SHUT-OFF.
2. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.
3. THE THREE UNIT 3 CONNECTIONS AT VISTA SERENA RD, VISTA LUNA LANE, AND VISTA LEJOS LANE ARE TO STUBS WITH VALVES CONSTRUCTED WITH PREVIOUS UNITS OF THIS SAME PROJECT. UNIT 3 CONNECTIONS WILL ALL BE NON-PRESSURE WITH LOTS 1 AND 2 IN BLOCK 5 BEING THE ONLY SERVICES AFFECTED BY THE SHUTDOWN.

LEGEND

- NEW CONCRETE SIDEWALK
- NEW RETAINING WALL
- MOUNTABLE CURB & GUTTER
- STANDARD 8" CURB & GUTTER
- SD — PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN LINE
- SAS — PROPOSED SANITARY SEWER
- WL — PROPOSED WATERLINE
- NEW FIRE HYDRANT
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- GATE VALVE
- TEE
- BEND
- S — SANITARY SEWER SERVICE
- PROPOSED STORM DRAIN MH
- PROPOSED SAS MH
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER VALVE
- OT — EXISTING OVERHEAD TELEPHONE LINE
- SAS — EXISTING SANITARY SEWER
- (8101) ADDRESSING
- UNIT BOUNDARY
- STREET LIGHT
- W — EXISTING WATERLINE

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Systems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPF 11674

SCALE: 1" = 100'

8118VIST/UNIT 3/8118UTL/09-01-99

AS BUILT INFORMATION	
CONTRACTOR WORK STAKED BY	Hydro systems DATE 2/01
INSPECTOR'S ACCEPTANCE BY FIELD VERIFICATION BY DRAWINGS CORRECTED BY	BES DATE 3/01 DES DATE 4/01 DMG DATE 8/01
MICRO-FILM INFORMATION	
RECORDED BY:	DATE
NO.	

BENCH MARKS	
CITY OF ALBUQUERQUE ACS MONUMENT "8-L9"	
NEW MEXICO STATE PLANE COORDINETES (CENTRAL ZONE) NAD 1927	
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -0°16'31"	
G -G = 0.99967955, ELEVATION = 5101.34'	

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO 11674 REGISTERED PROFESSIONAL ENGINEER 9-9-99

NO.	DATE	REMARKS	BY	DATE
		REVISIONS		DATE
		DESIGN		DATE
				DATE

DESIGNED BY	JDH	10-98
DRAWN BY	KJS	10-98
CHECKED BY	DMG	HH

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

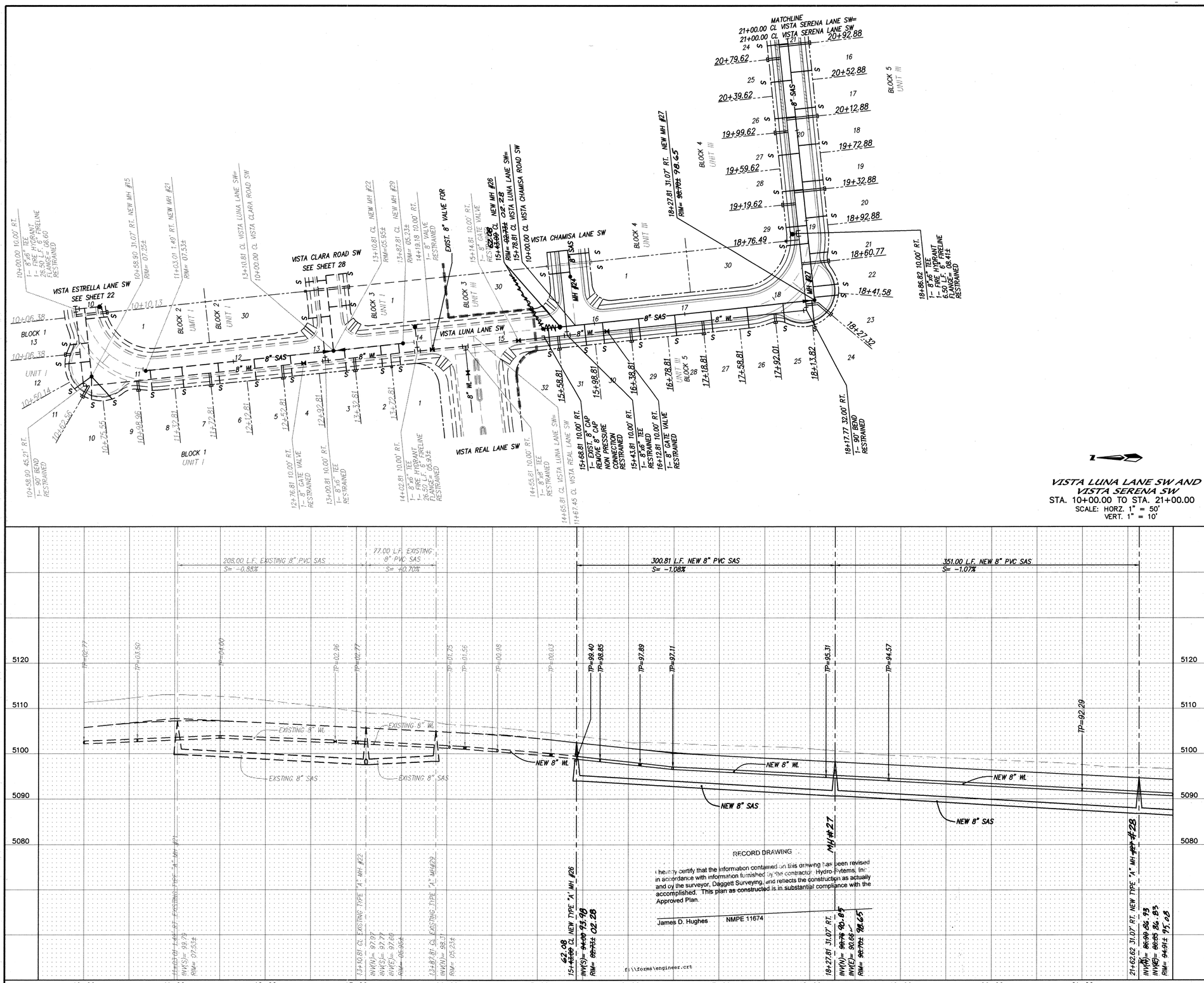
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION UNIT III MASTER UTILITY PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED 3-9-01 DEC 12 1999 DESIGN REVIEW COMMITTEE	APPROVED APR 9 2001 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
607183	L-9, L-10	12	19

SCANNED BY MESA REPRO
F:\DATA\DWGS\96JOBS\8118VIST\UNIT3\8118UTL.DWG Thu Sep 30 13:15:04 1999 PLOTTED BY KJS



8118VIST/UNIT 3/UPLUNA/09-01-99/ACH

NOTES

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
1	1	13+62.81	00.1	23.00'
1	2	13+72.81	00.3	23.00'
1	3	13+42.81	00.7	23.00'
1	4	12+62.81	01.1	23.00'
1	5	12+22.81	01.5	23.00'
1	6	11+82.81	01.9	23.00'
1	7	11+42.81	02.2	23.00'
1	8	11+10.14	02.3	22.49'
1	9	10+80.76	02.3	33.71'
1	10	10+68.37	02.3	25.28'
1	11	10+55.50	02.3	23.25'
1	12	10+38.75	02.1	27.67'
1	13	10+28.72	01.2	20.15'
2	1	10+17.47	01.0	24.40'
4	24	20+64.62	90.3	23.00'
4	25	20+54.62	90.7	23.00'
4	26	20+14.62	91.1	23.00'
4	27	19+74.62	91.6	23.00'
4	28	19+34.62	92.0	23.00'
4	29	18+91.49	92.4	23.00'
4	30	18+69.15	92.8	24.40'
5	16	13+62.81	90.6	23.00'
5	17	20+42.88	91.0	23.00'
5	18	19+62.88	91.5	23.00'
5	19	19+22.88	91.9	23.00'
5	20	18+82.88	92.3	23.00'
5	21	18+68.88	92.7	20.08'
5	22	18+47.01	93.0	27.82'
5	23	18+38.78	93.1	27.00'±
5	24	18+19.74	93.2	27.00'±
5	25	17+98.45	93.5	23.00'
5	26	17+68.81	93.8	23.00'
5	27	17+28.81	94.2	23.00'
5	28	16+88.81	94.6	23.00'
5	29	16+48.81	95.4	23.00'
5	30	16+08.81	96.0	23.00'
5	31	15+88.81	96.6	23.00'
5	32	15+48.81	97.5	23.00'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	–	–	46'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
8"x8"x8"	13'	3'
8"x8"x6"	7'	5'

AS BUILT INFORMATION
CONTRACTOR: Hydro Systems
WORK STAKED BY: DES DATE 2/01
INSPECTOR'S ACCEPTANCE BY: DATE
FIELD VERIFICATION BY: DES DATE 8/01
DRAWINGS CORRECTED BY: DHC DATE 8/01
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ACS MONUMENT "B-19"
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -016'31"
G - G = 0.9996795S, ELEVATION = 5101.34'

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
JAMES D. HUGHES NEW MEXICO 11674 REGISTERED PROFESSIONAL ENGINEER
9-9-99

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	JDH	11/98
DRAWN BY	KJS	11/98
CHECKED BY	DMG	11/98

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

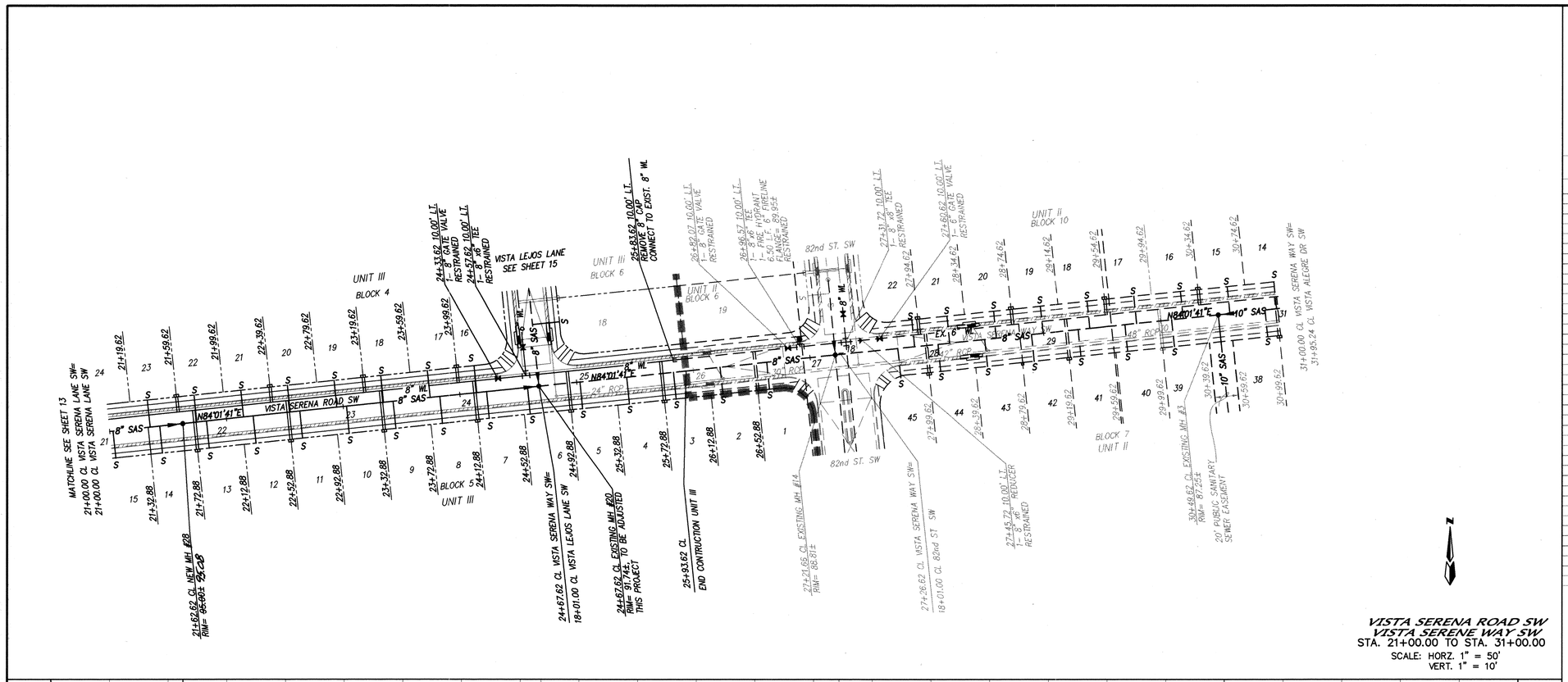
TITLE: VISTA SANDIA SUBDIVISION
UNIT III
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE: APPROVED 3/9/01 DEC 1 2 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 1 9 2001 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

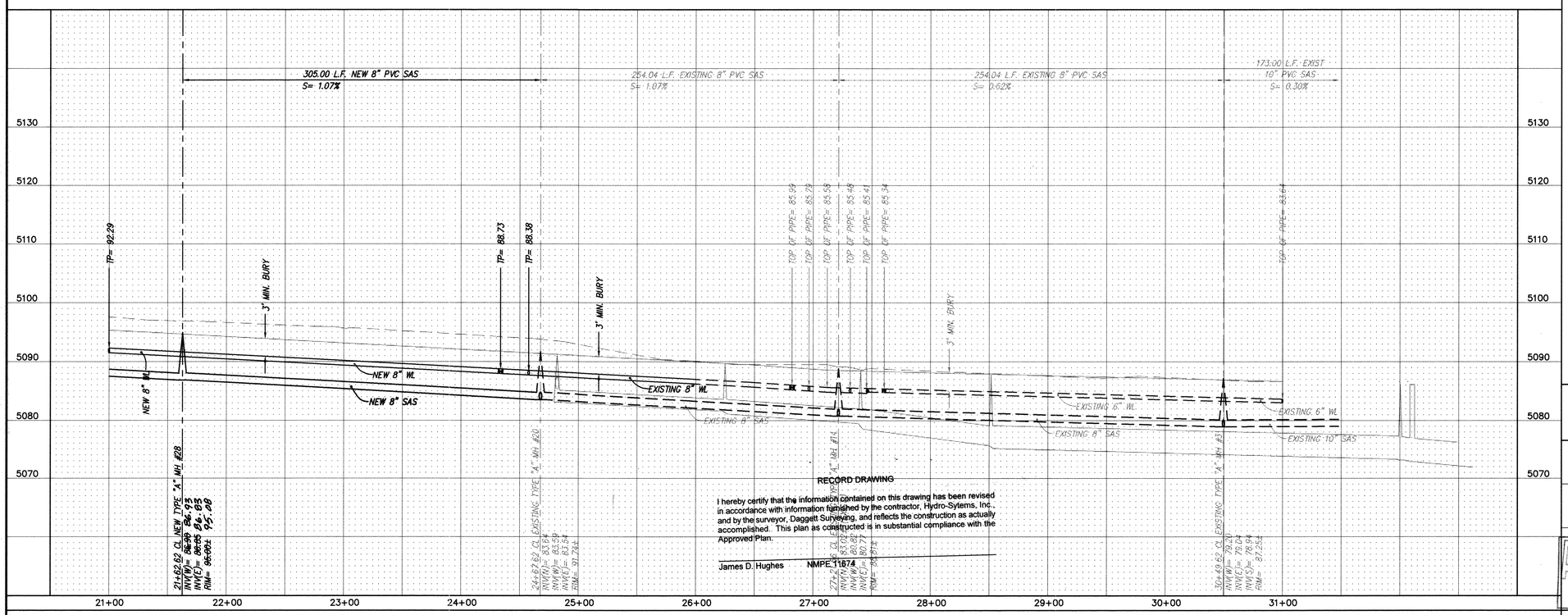
CITY PROJECT NO. 607183 | ZONE MAP NO. L-9,L-10 | SHEET 13 OF 19

SCANNED BY MESA REPRO

F:\DATA\DWGS\98J085\8118VIST\UNIT3\UPLUNA.DWG Thu Sep 30 13:17:33 1999 PLOTTED BY KJS



VISTA SERENA ROAD SW
VISTA SERENE WAY SW
STA. 21+00.00 TO STA. 31+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11874

8118VIST/UNIT 3/UPSEREN/09-01-99/ACH

NOTES

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
4	16	24+14.62	87.2	23.00'
4	17	23+74.62	87.5	23.00'
4	18	23+34.62	87.9	23.00'
4	19	22+94.62	88.3	23.00'
4	20	22+54.62	88.7	23.00'
4	21	22+14.62	89.1	23.00'
4	22	21+74.62	89.5	23.00'
4	23	21+34.62	89.9	23.00'
5	1	26+62.88	84.5	23.00'
5	2	26+22.88	84.9	23.00'
5	3	25+82.88	85.4	23.00'
5	4	25+42.88	85.9	23.00'
5	5	25+02.88	86.3	23.00'
5	6	24+62.88	86.7	23.00'
5	7	24+22.88	87.1	23.00'
5	8	23+82.88	87.5	23.00'
5	9	23+42.88	87.8	23.00'
5	10	23+02.88	88.2	23.00'
5	11	22+62.88	88.6	23.00'
5	12	22+22.88	89.0	23.00'
5	13	21+82.88	89.4	23.00'
5	14	21+42.88	89.8	23.00'
5	15	21+02.88	90.2	23.00'
10	14	30+99.62	81.9	23.00'
10	15	30+39.62	82.1	23.00'
10	16	30+19.62	82.4	23.00'
10	17	29+79.62	82.6	23.00'
10	18	29+39.62	82.8	23.00'
10	19	28+99.62	83.0	23.00'
10	20	28+59.62	83.2	23.00'
10	21	28+19.62	83.4	23.00'
10	22	27+89.62	83.6	23.00'
7	38	30+89.62	82.2	23.00'
7	39	30+09.62	82.4	23.00'
7	40	29+69.62	82.6	23.00'
7	41	29+29.62	82.8	23.00'
7	42	28+89.62	83.0	23.00'
7	43	28+49.62	83.2	23.00'
7	44	28+09.62	83.4	23.00'
7	45	27+81.22	83.6	23.00'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'
8"	22'	9'	4'	2'	60'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)

PIPE SIZE	LARGE SIDE	SMALL SIDE
8" X 6"	25'	33'

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
8"x8"x8"	13'	3'
8"x8"x6"	7'	5'

AS BUILT INFORMATION
CONTRACTOR Hydro Systems
WORK STAKED BY DES DATE 2/01
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DES DATE 8/01
DRAWINGS CORRECTED BY DHG DATE 8/01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
JAMES D. HUGHES NEW MEXICO 11874 REGISTERED PROFESSIONAL ENGINEER
9-9-99

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	JDH	12/98
DRAWN BY	KJS WLV	12/98
CHECKED BY	DMG	12/98

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **VISTA SNDIA SUBDIVISION UNIT III UTILITY IMPROVEMENTS**

DESIGN REVIEW COMMITTEE: APPROVED 3/9/01 DEC 12 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED 9 2000 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 607183 | ZONE MAP NO. L-9,L-10 | SHEET 14 OF 19

SCANNED BY MESA REPRO
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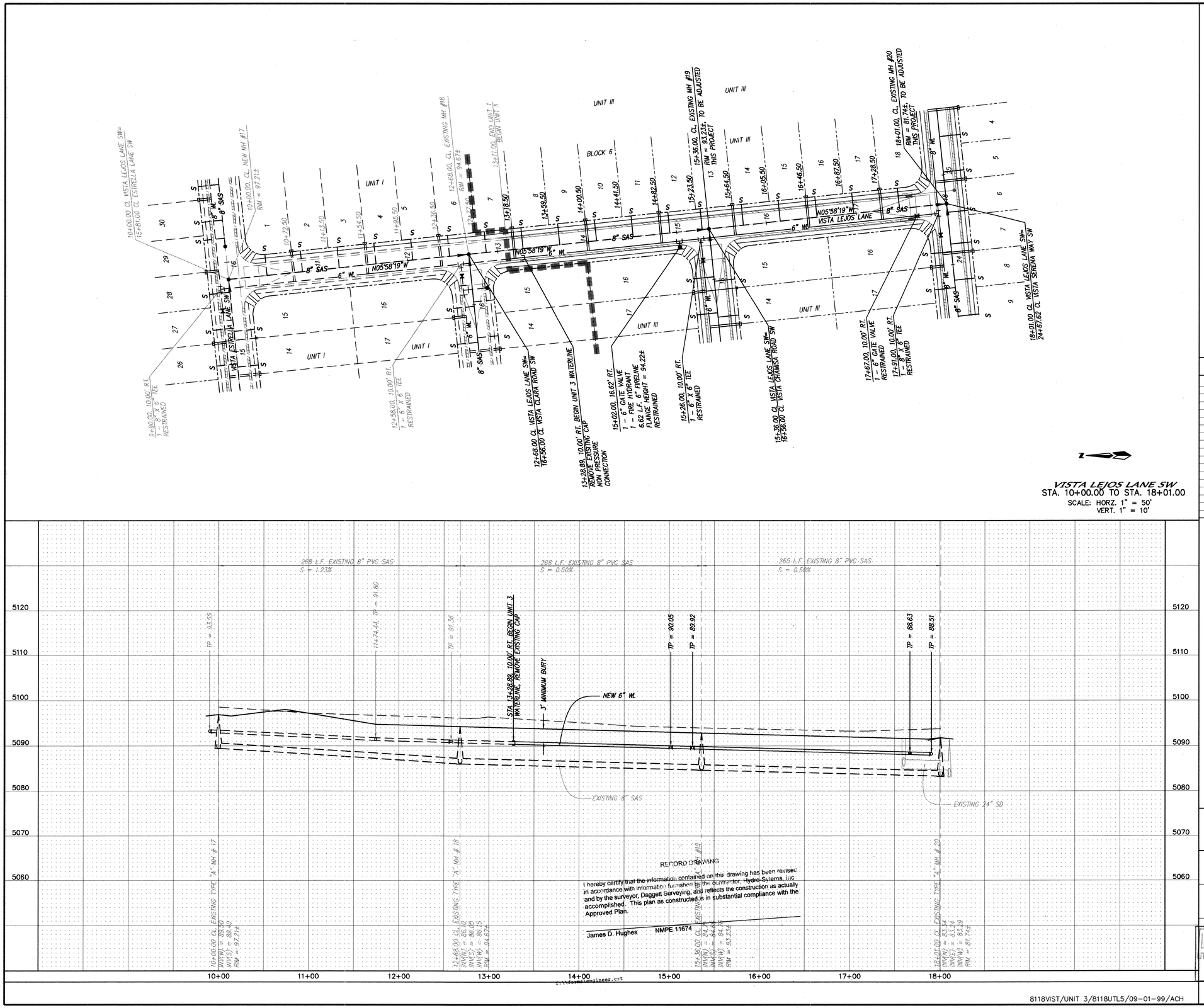

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

LEGEND

- DOUBLE WATER SERVICE
- SANITARY SEWER SERVICE
- MANHOLE
- FLOW
- WATER GATE VALVE
- TEE (WATER CONNECTION)
- FIRE HYDRANT

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
6	1	10+43.00	92.3	23' L.T.
6	2	10+82.50	91.8	23' L.T.
6	3	11+23.50	90.9	23' L.T.
6	4	11+64.50	90.1	23' L.T.
6	5	12+05.50	89.8	23' L.T.
6	6	12+46.50	89.6	23' L.T.
6	7	12+87.50	89.4	23' L.T.
6	8	13+28.50	89.2	23' L.T.
6	9	13+69.50	89.0	23' L.T.
6	10	14+10.50	88.8	23' L.T.
6	11	14+51.50	88.6	23' L.T.
6	12	14+92.50	88.4	23' L.T.
6	13	15+28.50	88.2	23' L.T.
6	14	15+74.50	88.0	23' L.T.
6	15	16+15.50	87.8	23' L.T.
6	16	16+56.50	87.6	23' L.T.
6	17	16+97.50	87.4	23' L.T.
6	18	17+48.50	87.2	23' L.T.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	–	–	46'
8"	22'	9'	4'	2'	60'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
8"x8"x8"	13'	3'
8"x8"x6"	7'	5'
6"x6"x6"	10'	2'

AS BUILT INFORMATION
CONTRACTOR Hydro Systems DATE 2/01
WORK STAKED BY DES/ DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DES DATE 8/01
DRAWINGS CORRECTED BY DLG DATE 8/01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ACS MONUMENT "B-L9"
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -0°16'31"
G -G = 0.9996795S, ELEVATION = 5101.34'

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
JAMES D. HUGHES NEW MEXICO 11674 REGISTERED PROFESSIONAL ENGINEER
9-9-99

NO.	DATE	REMARKS	BY
		REVISIONS	

	DESIGN	DATE
DESIGNED BY	JDH	12-98
DRAWN BY	MJR	12-98
CHECKED BY	DMG	12-98

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION
UNIT III
UTILITY INPROVMENTS

DESIGN REVIEW COMMITTEE: APPROVED 3/9/01 DEC 12 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 9 2001 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 607183 | ZONE MAP NO. L-9,L-10 | SHEET 15 OF 19

SCANNED BY MESA REPRO
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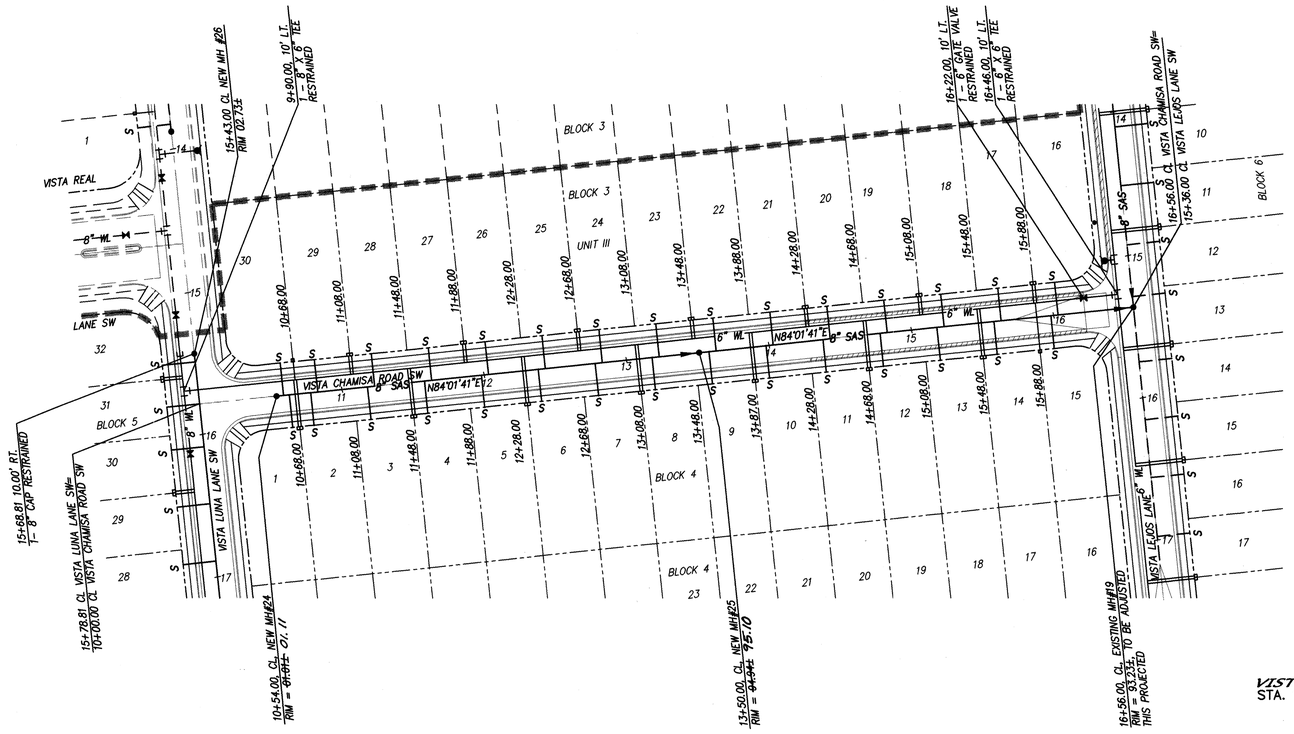
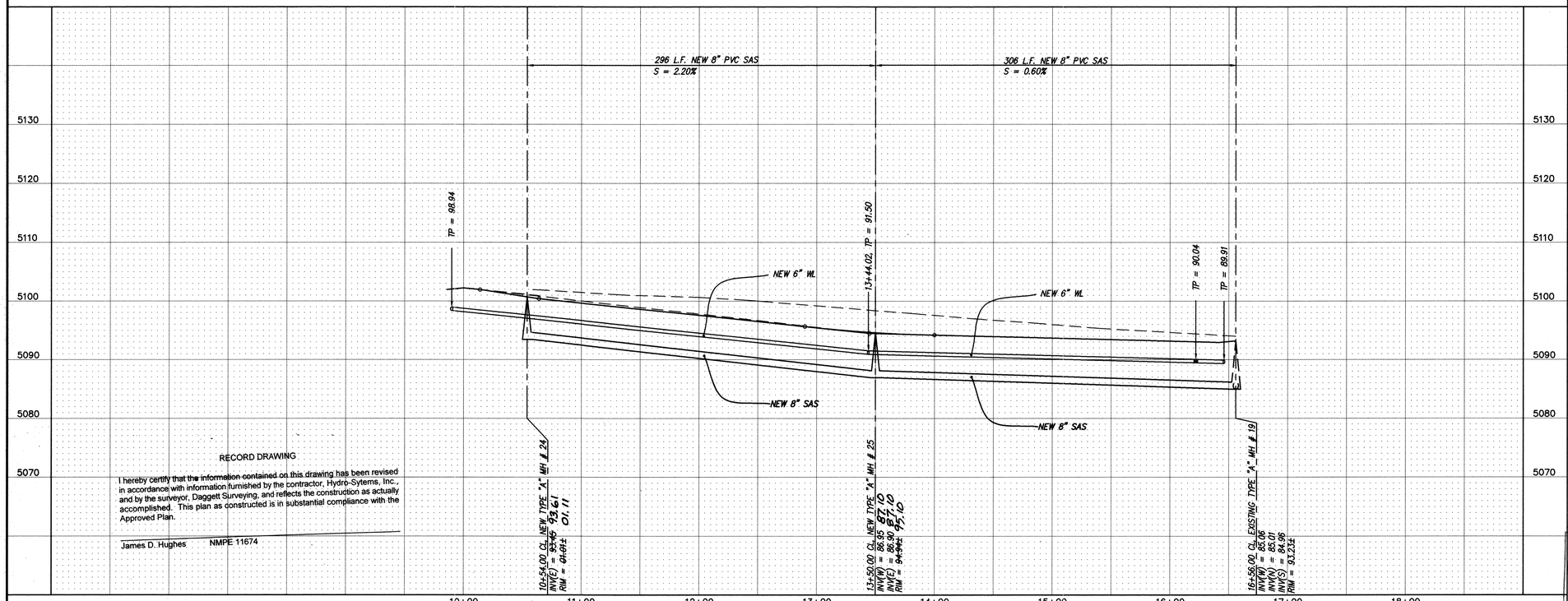


VISTA CHAMISA ROAD SW
STA. 10+00.00 TO STA. 16+56.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674

8118VIST/UNIT 3/8118UTL2/09-01-99/ACH

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

LEGEND

- DOUBLE WATER SERVICE
- SANITARY SEWER SERVICE
- MANHOLE
- FLOW
- WATER GATE VALVE
- TEE (WATER CONNECTION)
- FIRE HYDRANT

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
4	1	10+63.00	95.3	23'RT.
4	2	10+78.00	94.9	23'RT.
4	3	11+18.00	94.1	23'RT.
4	4	11+58.00	93.3	23'RT.
4	5	11+98.00	92.5	23'RT.
4	6	13.38.00	91.7	23'RT.
4	7	12+78.00	90.8	23'RT.
4	8	13+18.00	90.0	23'RT.
4	9	13+58.00	89.5	23'RT.
4	10	13+98.00	89.4	23'RT.
4	11	14+38.00	89.0	23'RT.
4	12	14+78.00	88.7	23'RT.
4	13	15+18.00	88.5	23'RT.
4	14	15+58.00	88.3	23'RT.
4	15	15+98.00	88.1	23'RT.
3	16	16+03.00	88.1	23'LT.
3	17	15+63.00	88.3	23'LT.
3	18	15+23.00	88.5	23'LT.
3	19	14+83.00	88.7	23'LT.
3	20	14+43.00	89.0	23'LT.
3	21	14+03.00	89.3	23'LT.
3	22	13+63.00	89.6	23'LT.
3	23	13+23.00	90.0	23'LT.
3	24	12+83.00	90.8	23'LT.
3	25	12+43.00	91.7	23'LT.
3	26	12+03.00	92.5	23'LT.
3	27	11+63.00	93.3	23'LT.
3	28	11+23.00	94.1	23'LT.
3	29	10+83.00	94.9	23'LT.
3	30	10+59.00	95.3	23'LT.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	–	–	46'
8"	22'	9'	4'	2'	60'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
8"x8"x8"	13'	3'
8"x8"x6"	7'	5'
6"x6"x6"	10'	2'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION UNIT III UTILITY IMPROVMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.
APPROVED 3/9/01 DEC 12 1999 DESIGN REVIEW COMMITTEE	APPROVED APR 9 2001 CITY ENGINEER		MO./DAY/YR.

CITY PROJECT NO. 607183 | ZONE MAP NO. L-9,L-10 | SHEET 16 OF 19

AS BUILT INFORMATION

CONTRACTOR	Hydro Systems	DATE 2/01
WORK STAKED BY	KES	DATE
INSPECTOR ACCEPTANCE BY	DES	DATE 8/01
FIELD VERIFICATION BY	DMG	DATE 8/01
DRAWINGS CORRECTED BY		

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

CITY OF ALBUQUERQUE ACS MONUMENT "8-L9"
NEW MEXICO STATE PLANE COORDINETES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA = -0°16'31"
G -G = 0.9996795, ELEVATION = 5101.34'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

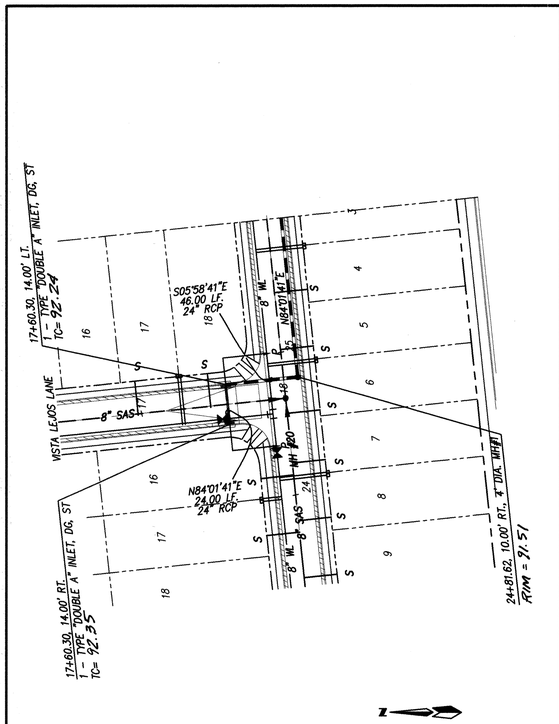
JAMES D. HUGHES, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER, 11674
9-9-99

NO.	DATE	REMARKS	BY
		REVISIONS	

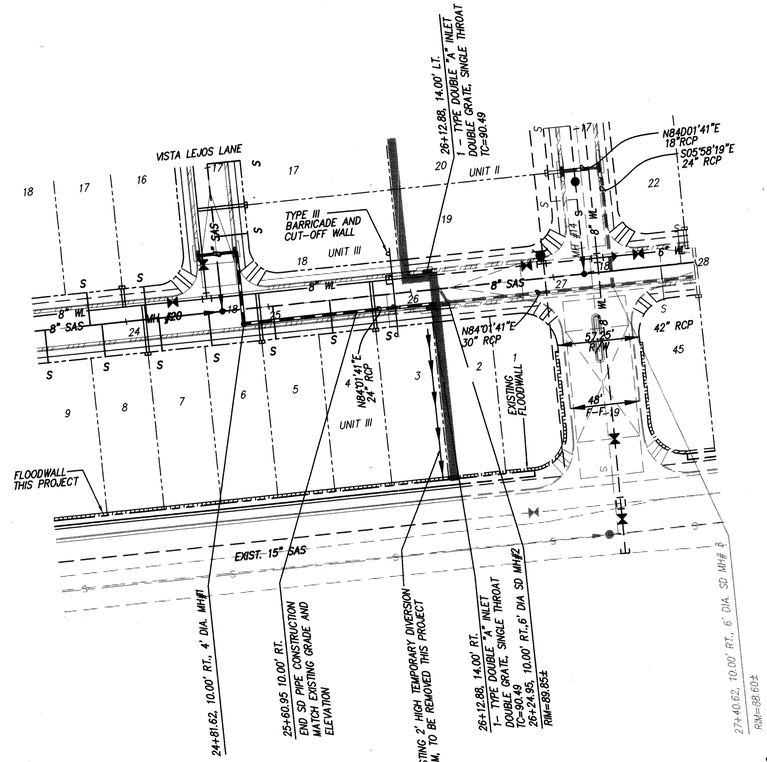
		DATE
DESIGNED BY	JDH	12-98
DRAWN BY	MJR, WLV	12-98
CHECKED BY	DMG	12-98

SCANNED BY MESA REPRO

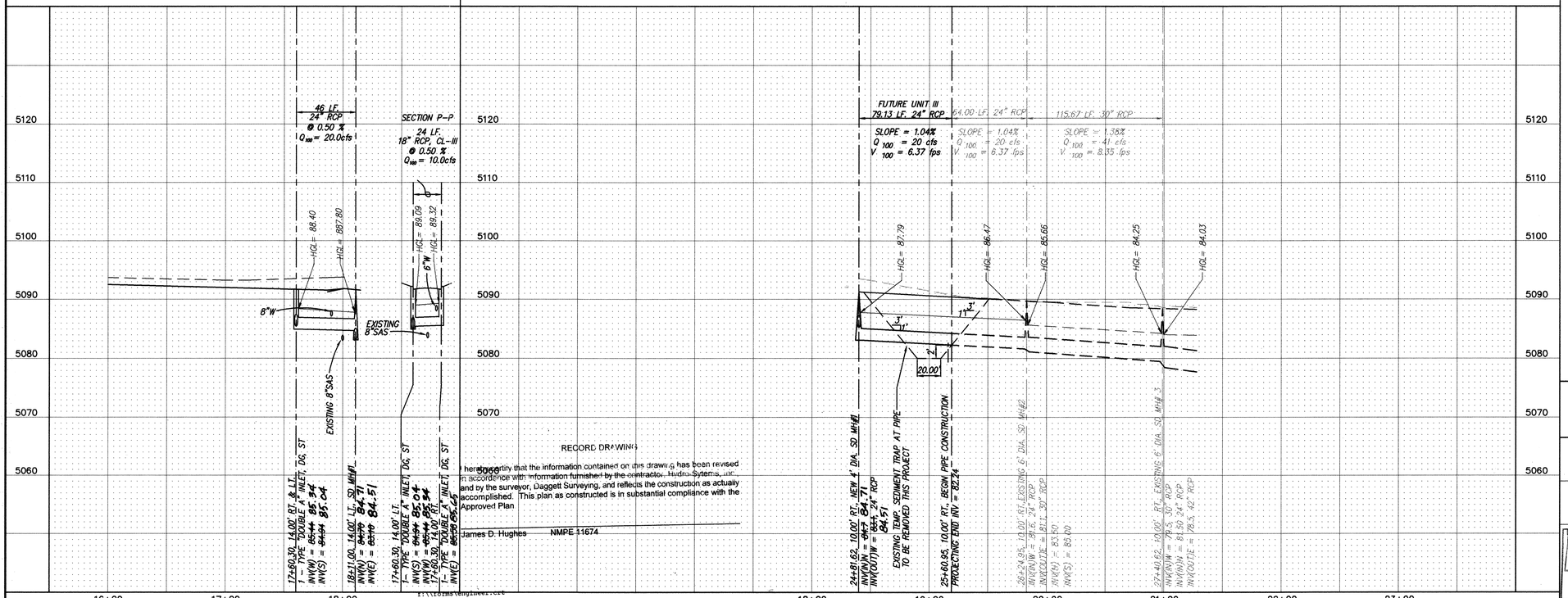
F:\DATA\DWGS\98JOBS\8118VIST\UNIT3\8118UTL2.DWG Thu Sep 09 10:49:56 1999 PLOTTED BY ACH



UNIT III CONSTRUCTION
VISTA LEJOS LANE
STORM DRAIN
STA. 17+60.30 TO STA. 18+11.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



VISTA SERENA WAY S.W.
STORM DRAIN
STA. 24+81.62 TO STA. 34+68.32
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro Systems, Inc. and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674

8118VIST/UNIT 3/8118SD/09-01-99/ACH

NOTES

AS BUILT INFORMATION

CONTRACTOR	Hydro Systems	DATE 2/01
WORK STAKED BY	DES /	DATE
INSPECTOR ACCEPTANCE		DATE
FIELD VERIFICATION BY	DES	DATE 8/01
DRAWINGS CORRECTED BY	DMG	DATE 8/01

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

CITY OF ALBUQUERQUE ACS MONUMENT "9-L9"
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE) NAD 1927
X = 356,637.67, Y = 1,478,811.91, DELTA ALPHA + -0°16'31"
G -G = 0.99967955, ELEVATION = 5101.34'

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO 11674 REGISTERED PROFESSIONAL ENGINEER 9-9-99

NO.	DATE	REMARKS	BY

REVISIONS

		DESIGN	DATE
DESIGNED BY	JDH		12-98
DRAWN BY	MJR		12-98
CHECKED BY	DMG		12-98

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: *VISTA SANDIA SUBDIVISION UNIT III STORM DRAIN IMPROVEMENTS*

DESIGN REVIEW COMMITTEE: APPROVED 3/9/01 DEC 12 1999 — DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED MAR 9 2001 — CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 607183 | ZONE MAP NO. L-9, L-10 | SHEET 17 OF 19

SCANNED BY MESA REPRO

F:\DATA\DWGS\98JOBS\8118VIST\UNIT3\8118SD.DWG Thu Sep 09 10:50:15 1999 PLOTTED BY ACH

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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 LANE 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. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24HOUR PER DAY BASIS UNTIL COMPLETED. ⚠1

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. ⚠2 48 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.

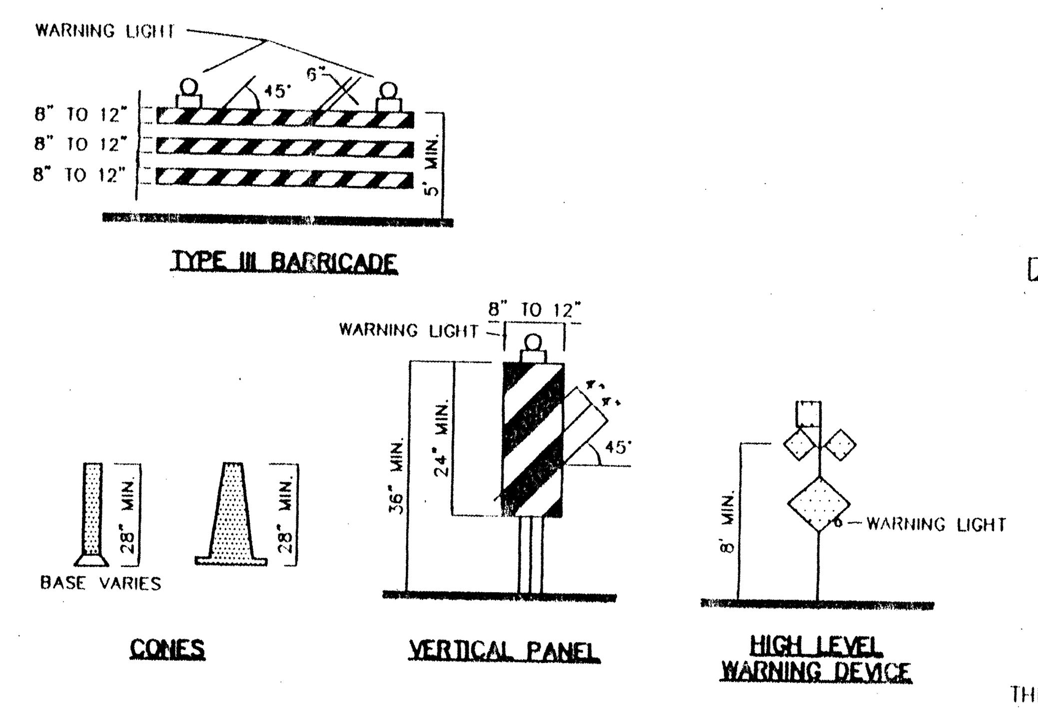
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

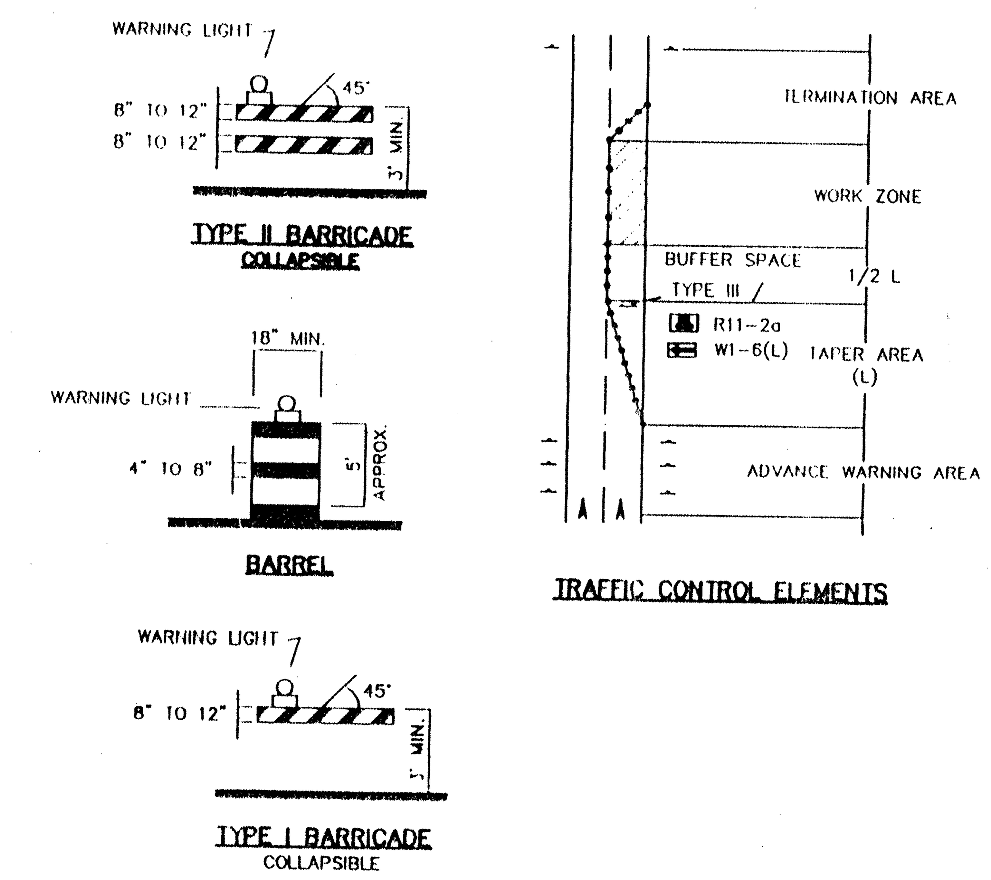
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

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

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGTH AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D. ⚠3

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY. ⚠4





LEGEND

- 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.

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET 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(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	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

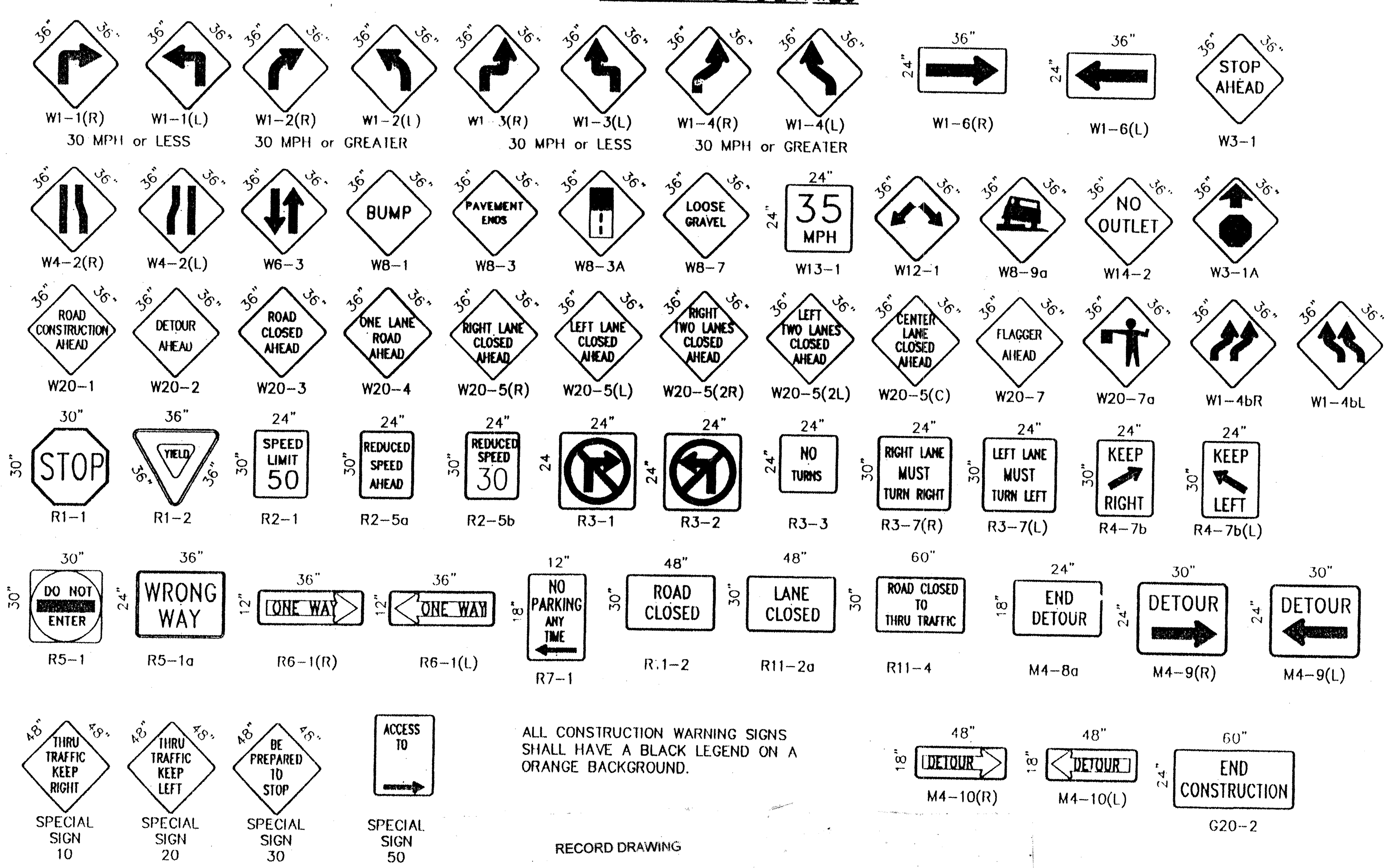
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
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

SIGN FACE DETAILS



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

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc and by the surveyor Doggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D Hughes NMPE 11674

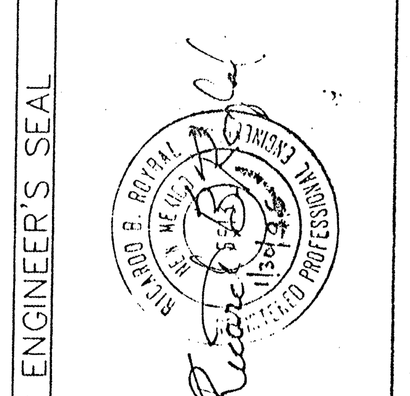
AS BUILT INFORMATION	
CONTRACTOR	Hydrosystems DATE 2/01
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DES DATE
FIELD VERIFICATION BY	DES DATE 8/01
DRAWINGS CORRECTED BY	DMG DATE 8/01
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL



NO.	DATE	REMARKS	BY
4	9/25/97	ADD NOTE NO. 27	J.D.L
3	9/24/97	REVISED NOTE NO. 26	J.D.L
2	9/24/97	REVISED NOTE NO.19	J.D.L
1	9/24/97	REVISED NOTE NO. 11	J.D.L

REVISIONS

DESIGN — DESIGNED BY DATE — DRAWN BY C.O.A. STANDARDS DATE — CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

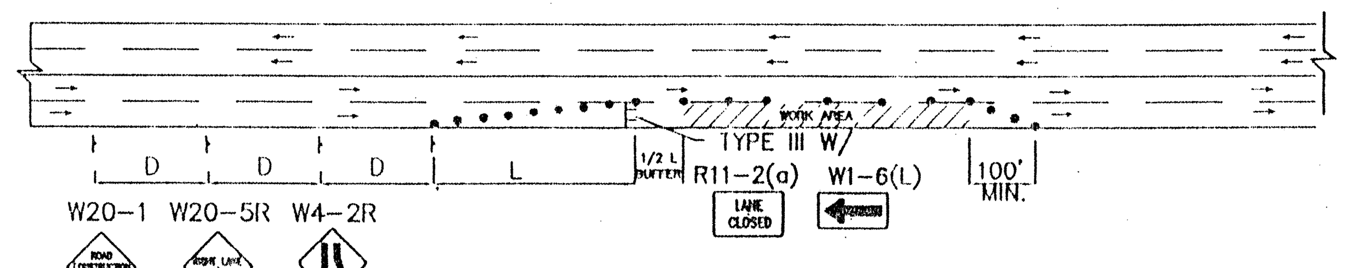
TITLE: VISTA SANDIA SUBDIVISION Unit 1
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR	MO./DAY/YR
COA Standard				

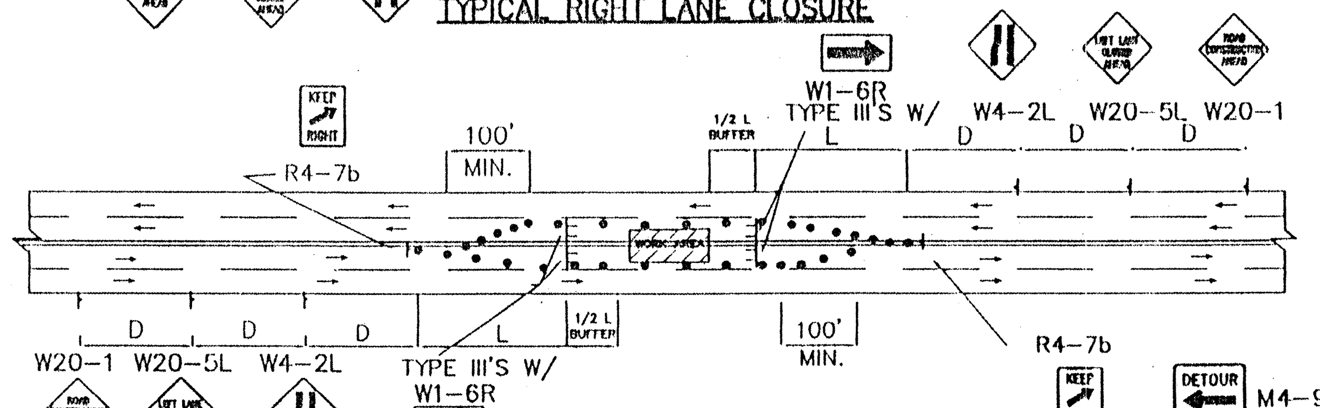
PROJECT NO. 6071.83 | MAP NO. L9,L10 | SHEET 18 OF 19

SCANNED BY MESA REPRO

CTCSTND1.DWG

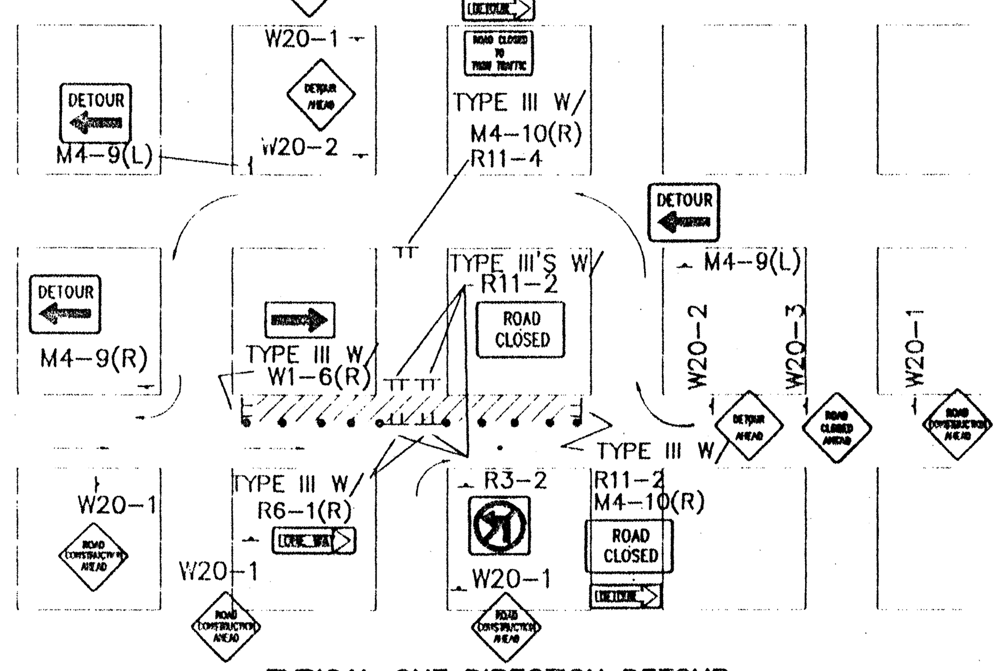


TYPICAL RIGHT LANE CLOSURE

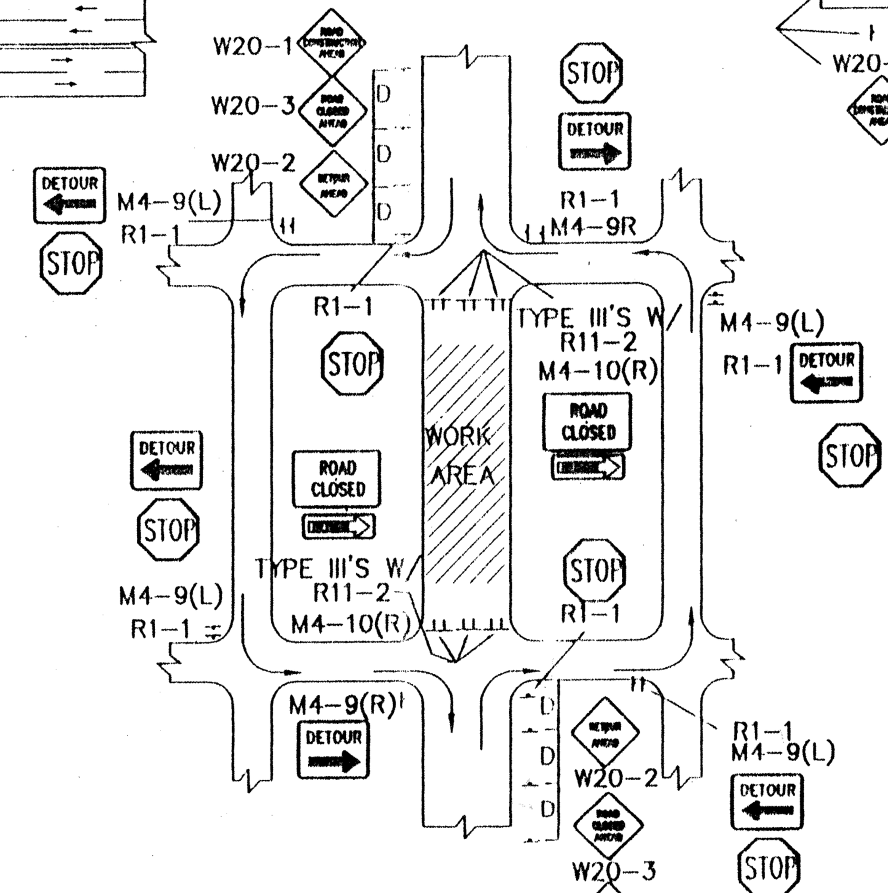


TYPICAL LEFT LANE CLOSURE

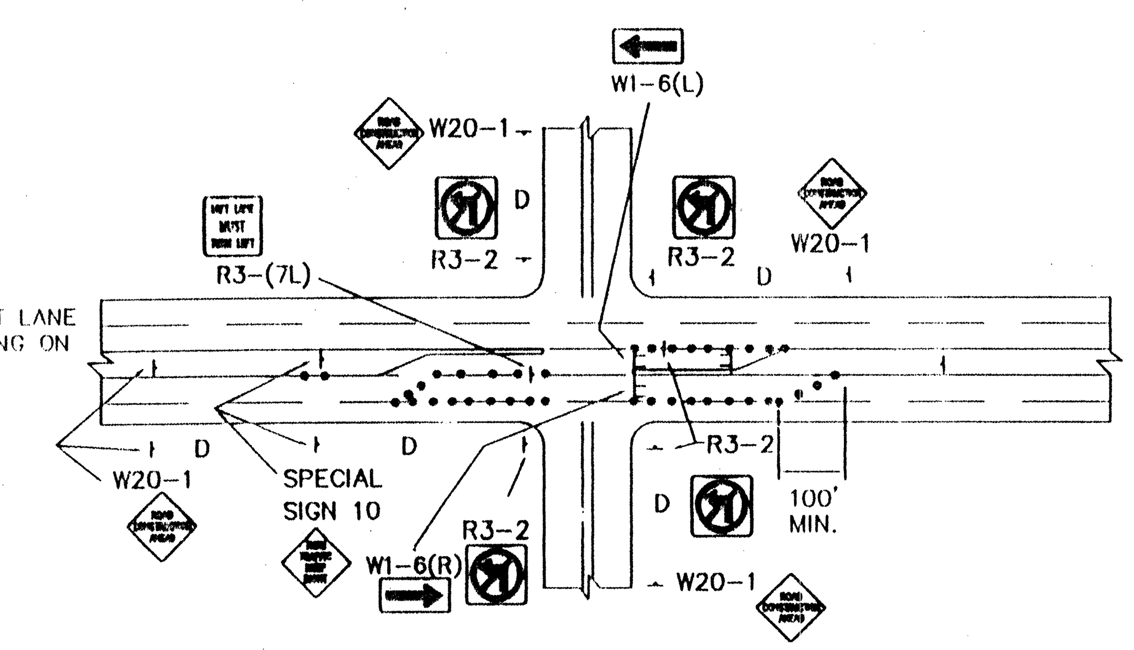
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



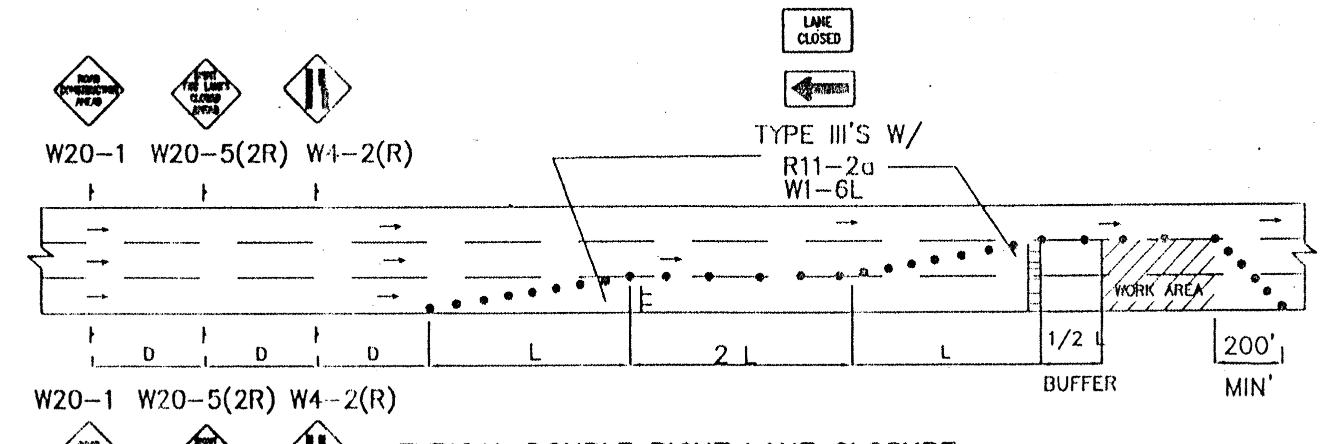
TYPICAL ONE DIRECTION DETOUR



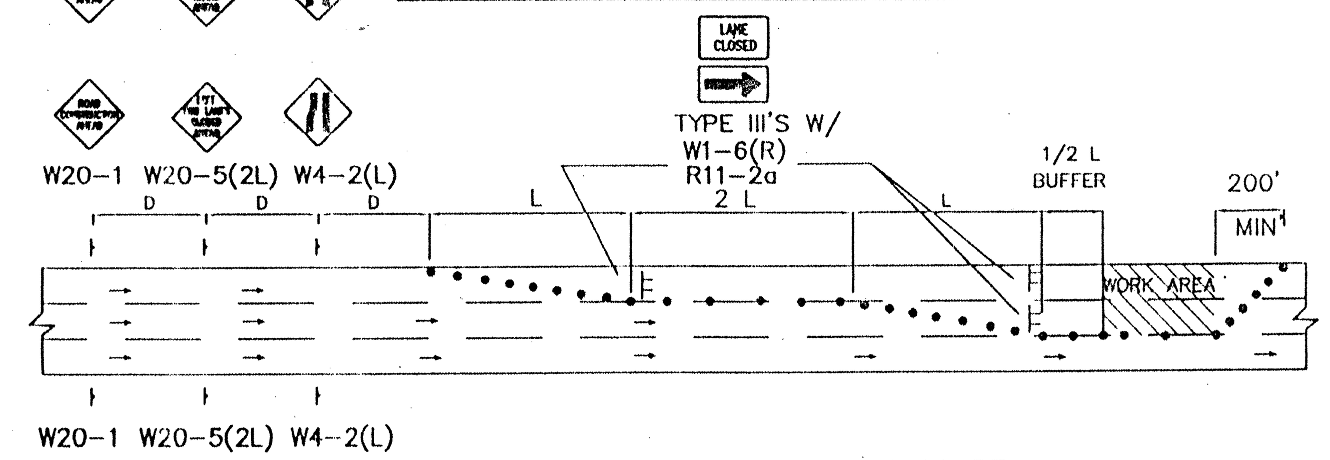
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



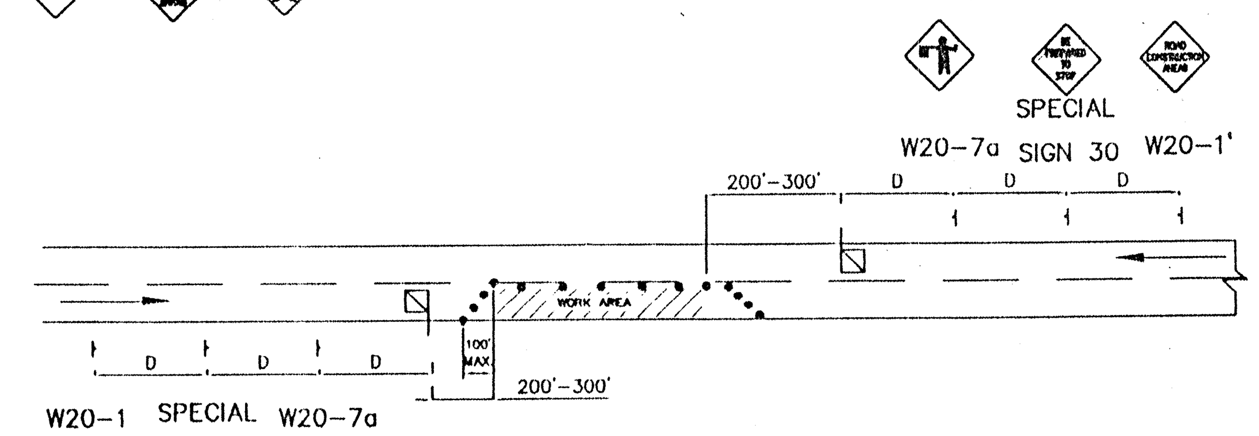
TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION



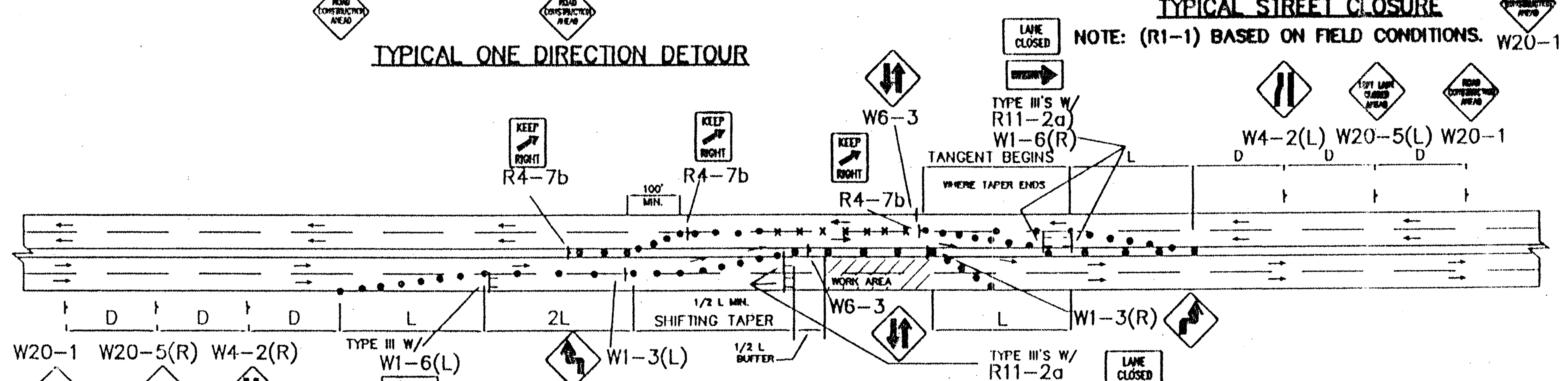
TYPICAL DOUBLE RIGHT LANE CLOSURE



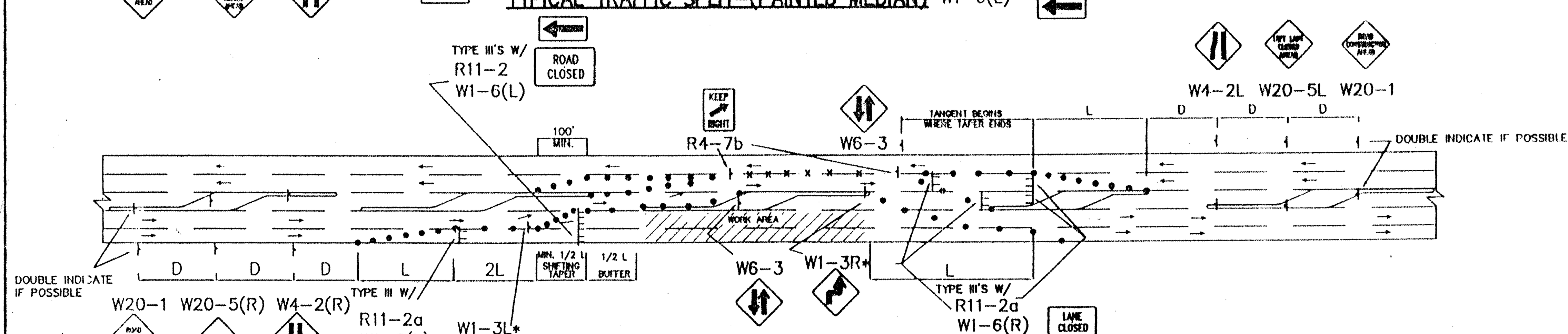
TYPICAL DOUBLE LEFT LANE CLOSURE



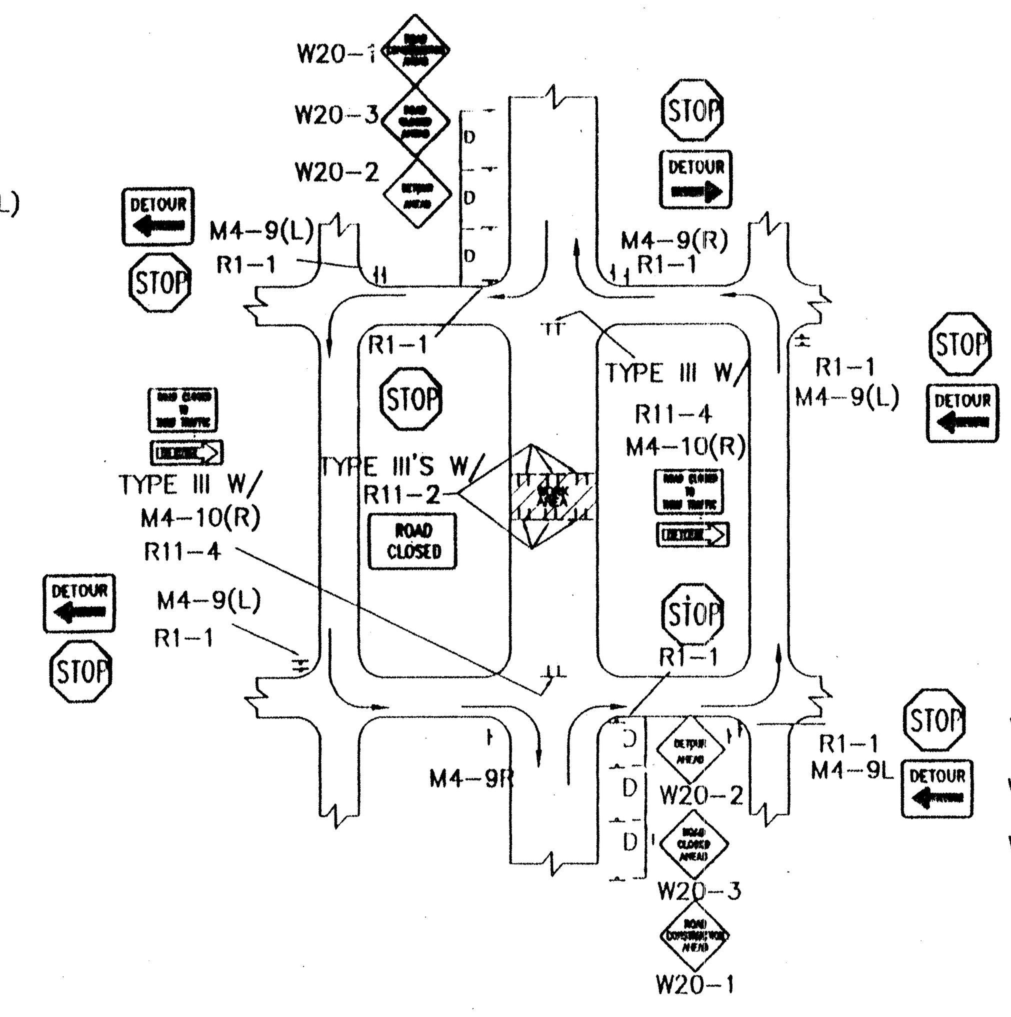
TYPICAL FLAGGING OPERATION



TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)



TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

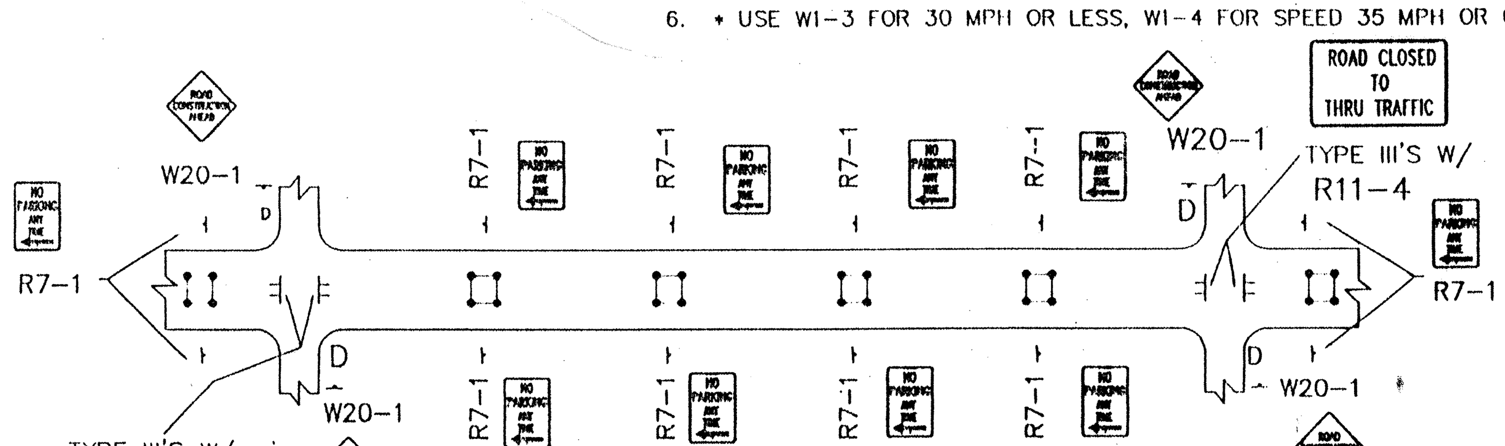
TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.

GENERAL NOTE:

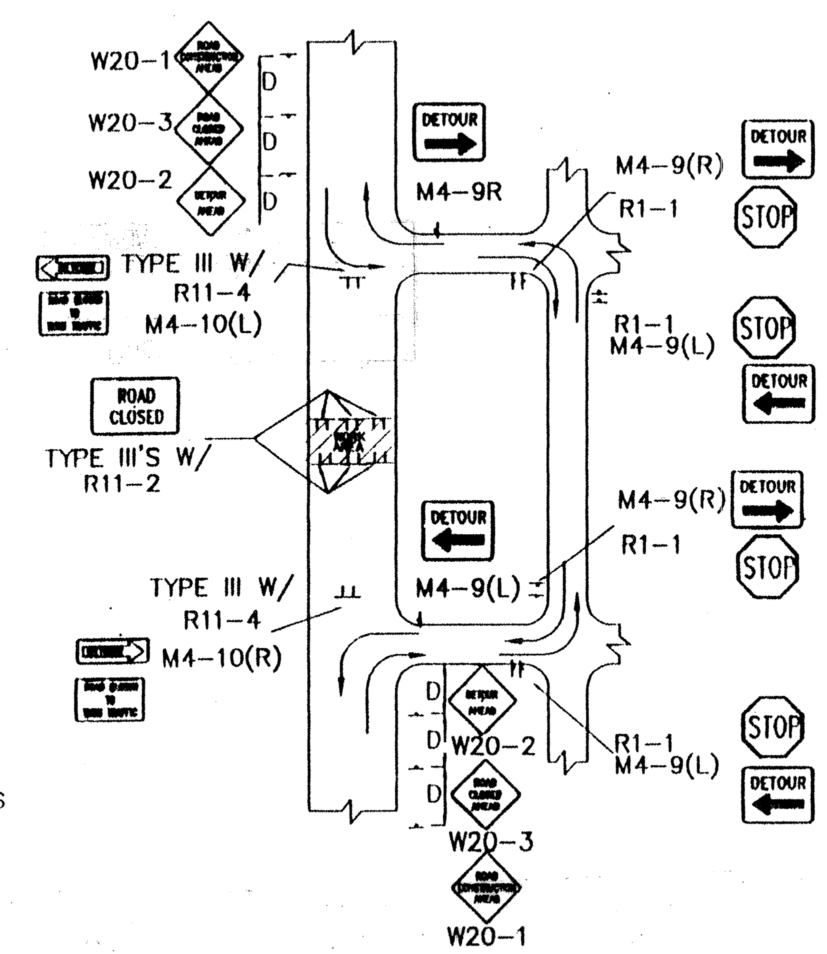
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

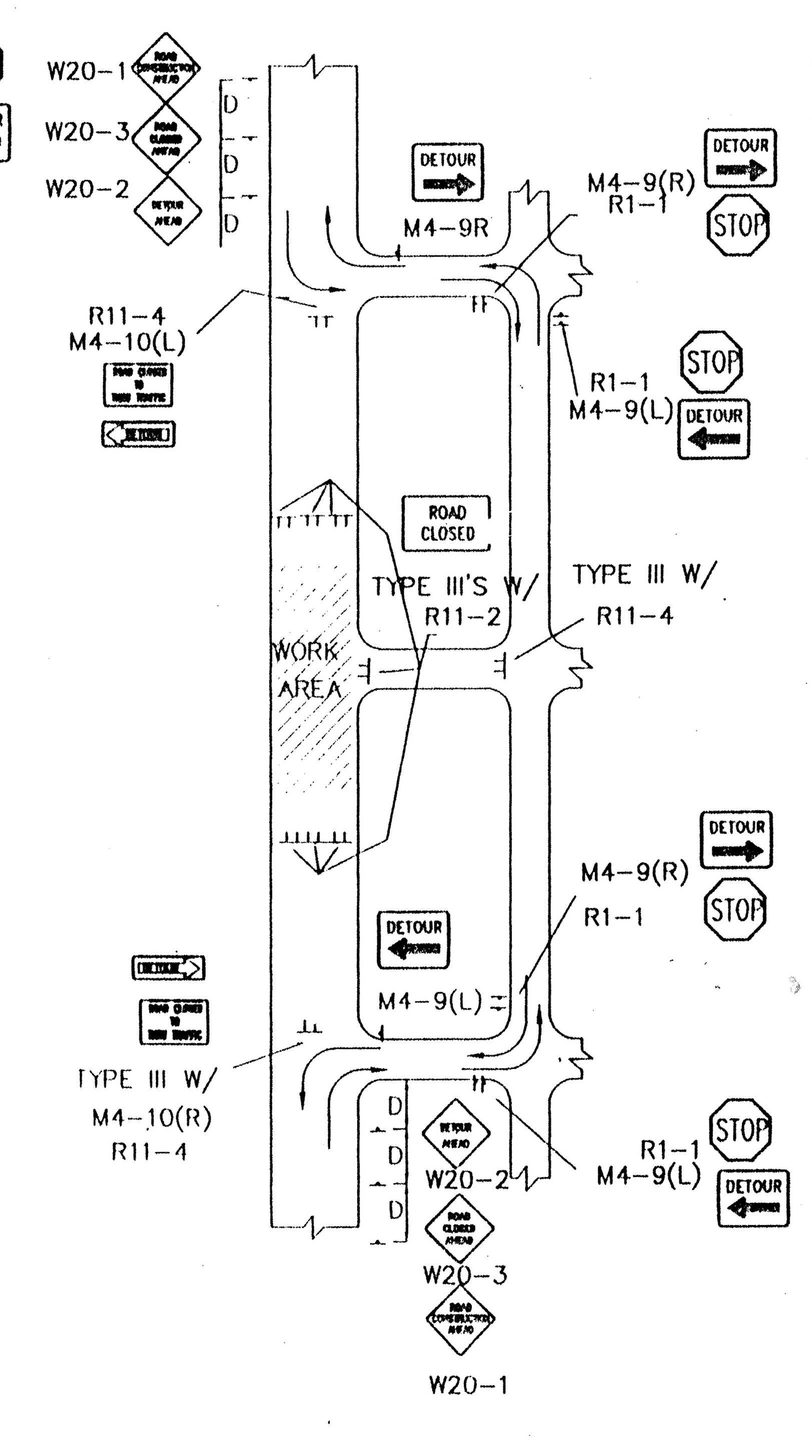
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.



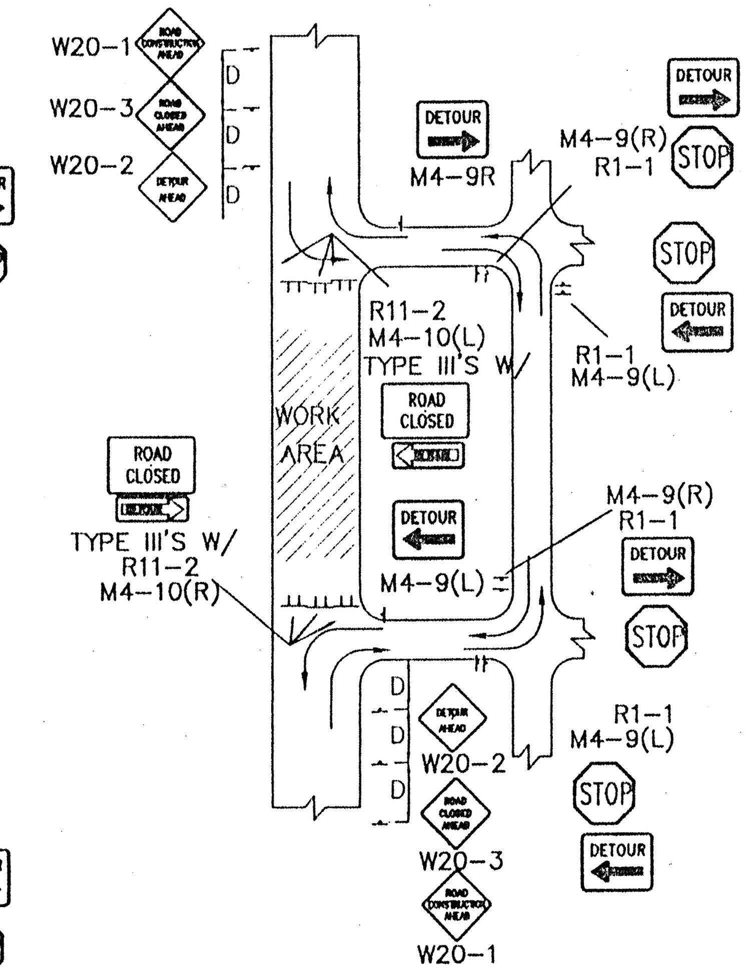
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

RECORD DRAWING
I hereby certify that this record drawing has been revised in accordance with information furnished by the contractor, Hydro-Sytems, Inc., and by the surveyor, Daggett Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

James D. Hughes NMPE 11674



TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: VISTA SANDIA SUBDIVISION Unit 1
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)

DESIGN REVIEW COMMITEE | CITY ENGINEER APPROVAL: COA Standard

PROJECT NO. 6071.83 | MAP NO. L9, L10 | SHEET 19 OF 19

AS BUILT INFORMATION
CONTRACTOR: Hydro-Systems
WORK STAKED BY: DES
INSPECTOR'S ACCEPTANCE BY: DES
FIELD VERIFICATION BY: DES
DRAWINGS CORRECTED BY: DHG
MICRO-FILM INFORMATION
RECORDED BY / NO. / DATE

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	9/24/97	REVISED GENERAL NOTE	J.D.L.

REVISIONS

DESIGN: C.O.A. STANDARDS
DESIGNED BY / DRAWN BY / CHECKED BY / DATE

SCANNED BY MESA REPRO