

PLAT FOR EL RANCHO GRANDE I UNIT 4A SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMMP
PROJECTED SECTION 33 TOWNSHIP 10 NORTH, RANGE 2 EAST, NMMP
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
FEBRUARY, 2001

KEYNOTES

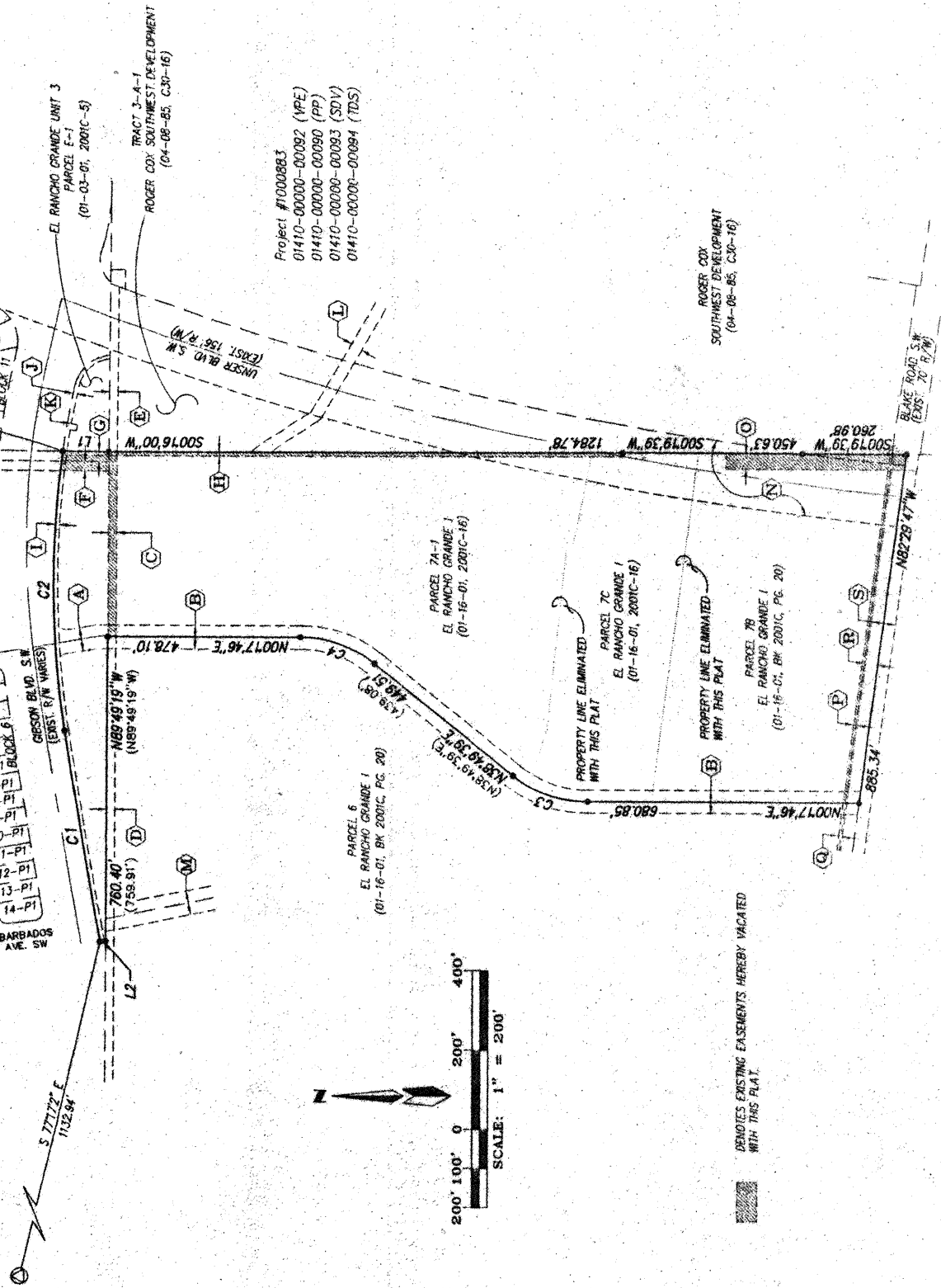
- (A) EXISTING 60' PUBLIC ROADWAY, UTILITY & DRAINAGE EASEMENT (01-16-01, 2001C-16)
- (B) EXISTING 60' PUBLIC ROADWAY, UTILITY & DRAINAGE EASEMENT (01-16-01, 2001C-20)
- (C) EXISTING 20' WATERLINE EASEMENT (DOC NO 85 90123, 10/25/85 BK MISC. 2844 PG. 668) PORTION HEREBY VACATED (01410-00000-00092)
- (D) EXISTING 20' WATERLINE EASEMENT (DOC NO 85 90123, 10/25/85 BK MISC. 2844 PG. 668)
- (E) EXISTING 20' WATERLINE EASEMENT (04-08-85, BK MISC. C30, PG. 66)
- (F) EXISTING 25' COA WATERLINE, SANITARY SEWER AND UTILITY EASEMENT (01410-00000-00092) HEREBY VACATED (01410-00000-00092)
- (G) EXISTING 25' COA WATERLINE EASEMENT (08-04-86, BK MISC. 3794, PGS. 578-582) (04-08-86, BK MISC. 3394, PGS. 595-598) HEREBY VACATED (01410-00000-00092)
- (H) EXISTING 10' PNM EASEMENT (01-16-01, 2001C-16) PORTION HEREBY VACATED (01410-00000-00092)
- (I) EXISTING 10' PNM EASEMENT (01-16-01, 2001C-16)
- (J) EXISTING 10' PUBLIC UTILITY EASEMENT (01-03-01, 2001C-5)
- (K) EXISTING 15' 15" SWITCH GEAR EASEMENT (01-03-01, 2001C-5)
- (L) EXISTING 30' PERMANENT DRAINAGE EASEMENT (04-08-85, BK MISC. C30, PG. 6)
- (M) EXISTING 60' PUBLIC ROADWAY EASEMENT (01-16-01, 2001C-20)
- (N) EXISTING 156' PUBLIC ROADWAY, UTILITY AND DRAINAGE EASEMENT (01-16-01, 2001C-20)
- (O) EXISTING 40' UTILITY EASEMENT (DOC NO. 198685502, 05-08-98, BK 9802, PG. 6940) HEREBY VACATED (01410-00000-00092)
- (P) EXISTING 10' PNM OVERHEAD LINE EASEMENT (08-06-86, BK MISC. C30, PG. 9)
- (Q) HEREBY VACATED (01410-00000-00092)
- (R) EXISTING 10' PNM OVERHEAD LINE EASEMENT (08-06-86, BK MISC. C30, PG. 9)
- (S) EXISTING 14' PUBLIC ROADWAY, UTILITY AND DRAINAGE EASEMENT (01-16-01, 2001C-20)
- (T) EXISTING 60' BLAKE ROAD, S.W. (NO RECORDATION DOCUMENT AVAILABLE)

Drawn: UNASHTS Scale: 1"=200' Date: 03/06/01 Checked: ALS Job: A00124 Sheet 3 of 7

NUMBER	R	L	D	T	CH BEARIN	CHORD LE
C1	19954.00	530.77	01°31'27"	265.40	N80°31'50"E	530.76
C2	19954.00	530.15	01°29'37"	260.10	N80°31'55"E	530.14
C3	2500.00	702.61	16°15'47"	357.21	N89°25'27"E	707.23
C4	300.00	201.75	38°31'53"	104.86	N19°33'42"E	197.97
C5	300.00	201.75	38°31'53"	104.86	N19°33'42"E	197.97

NUMBER	DIRECTION	DISTANCE
L1	N00°42'18"E	111.91
L2	N06°21'05"W	13.74
L3	N06°21'05"W	13.89

ACS MONUMENT
TRANS
T=147822.87
A=204988.45
G=0.99997921
CENTRAL ZONE
ELEVATION=518.43
NAD 1927/SD 1929



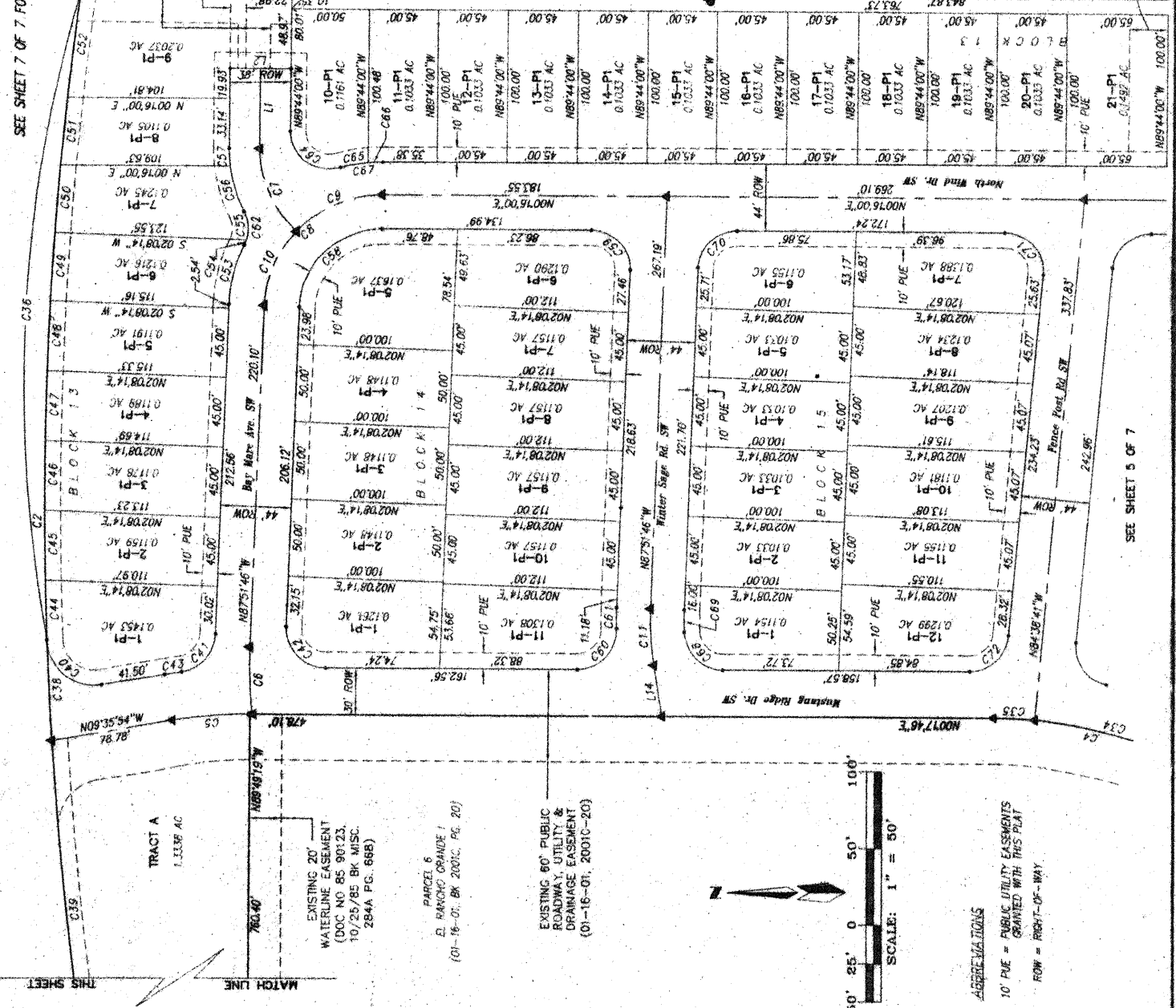
A 10' PRIVATE DRAINAGE EASEMENT IS CENTERED ON ALL COMMON SIDE LOT LINES AND ON REAR LOT LINES WHERE THEY ABUT THE SIDE YARD OF THE ADJACENT LOT. (SEE TYPICAL LOT DETAIL SHEET 7 OF 7)

ALL STREETS SHOWN HEREON ARE HEREBY DEDICATED AS PUBLIC RIGHT-OF-WAY

PLAT FOR EL RANCHO GRANDE I UNIT 4A SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMMP
PROJECTED SECTION 33 TOWNSHIP 10 NORTH, RANGE 2 EAST, NMMP
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MARCH, 2001

SEE SHEET 7 OF 7 FOR CURVE TABLE



PLAT FOR
EL RANCHO GRANDE I
UNIT 4A
SUBDIVISION

WITHIN THE

TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMMP
PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMMP
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MARCH, 2001

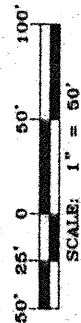
SCANNED BY
PLANNING

NOTE: ALL CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE P.C.'S, P.T.'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR INCH (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE", "CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7718".

SEE SHEET 4 OF 7

PARCEL 6
EL RANCHO GRANDE I
(01-16-01, BK 2001C, PG. 20)

ALL STREETS SHOWN
HEREON ARE HEREBY
DEDICATED AS PUBLIC
RIGHT-OF-WAY



NOTE: TRACT B IS HERE BY DEDICATED TO THE CITY OF ALBUQUERQUE FOR THE PURPOSE OF PUBLIC DRAINAGE.

ABBREVIATIONS

10' PUE = PUBLIC UTILITY EASEMENTS
GRANTED WITH THIS PLAT
ROW = RIGHT-OF-WAY

SEE SHEET 7 OF 7 FOR CURVE TABLE

A 10' PRIVATE DRAINAGE EASEMENT IS CENTERED ON ALL COMMON SIDE LOT LINES AND ON REAR LOT LINES WHERE THEY ABUT THE SIDE YARD OF THE ADJACENT LOT. (SEE TYPICAL LOT DETAIL SHEET 7 OF 7)

Dwg. UNASHTS Drawn: SFS Date: 03/06/01 Checked: ALS Job: A0124 Sheet 5 of 7
Scale: 1"=50'

PLAT FOR
EL RANCHO GRANDE I
UNIT 4A
SUBDIVISION

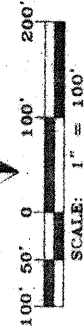
WITHIN THE

TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMMP
PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMMP
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MARCH, 2001

KEYNOTES

- (B) EXISTING 60' PUBLIC ROADWAY, UTILITY & DRAINAGE EASEMENT (01-16-01, 2001C-20)
- (N) EXISTING 150' PUBLIC ROADWAY, UTILITY AND DRAINAGE EASEMENT (01-16-01, 2001C-20)
- (Q) EXISTING 10' R/W OVERHEAD LINE EASEMENT (05-06-88, BK MISC. C30, PG. 91)
- (R) EXISTING 34' PUBLIC ROADWAY, UTILITY AND DRAINAGE EASEMENT (01-16-01, 2001C-20)
- (S) EXISTING 60' BLAKE ROAD S.W. (NO DEDICATION DOCUMENT AVAILABLE)

ROGER COX
SOUTHWEST DEVELOPMENT
(04-06-85, C30-16)



PARCEL 6
EL RANCHO GRANDE I
(01-16-01, 2001C-20)

Dwg. UNASHTS Drawn: SFS Date: 03/07/01 Checked: ALS Job: A0124 Sheet 6 of 7
Scale: 1"=100'

SCANNED BY
PLANNING

PLAT FOR
EL RANCHO GRANDE I
UNIT 4A
SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMPM
PROJECTED SECTION 33 TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MARCH, 2000

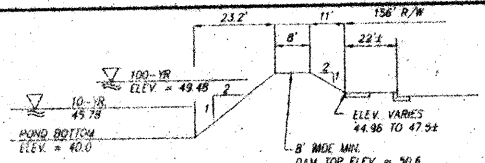
NUMBER	DIRECTION	DISTANCE
L1	N89°40'00"W	53.06
L2	N07°00'00"E	38.00
L3	N71°54'00"E	74.27
L4	N78°48'00"W	38.00
L5	N71°54'00"E	35.28
L6	N78°48'00"W	38.00
L7	N47°22'00"W	31.82
L8	N84°02'00"E	28.37
L9	N05°57'45"E	38.00
L10	N84°02'00"W	28.37
L11	N82°29'47"W	28.85
L12	N43°25'19"E	53.77
L13	S07°05'25"E	60.00
L14	S89°49'12"W	53.19

NUMBER	R	L	D	T	D	BEARINGS	CHORD	LE
C76	25.00	37.05	84°54'42"	22.8	144°11'20"W	33.75		
C77	25.00	41.48	89°09'16"	27.31	147°02'40"E	38.88		
C78	25.00	46.77	114°03'37"	38.34	119°34'30"W	41.85		
C79	25.00	50.00	119°22'00"	39.61	119°31'36"E	43.81		
C80	25.00	53.25	119°58'00"	40.88	119°30'19"E	45.81		
C81	25.00	56.50	120°22'00"	42.15	119°29'18"W	47.81		
C82	25.00	59.75	120°46'00"	43.42	119°28'17"E	49.81		
C83	25.00	63.00	121°10'00"	44.69	119°27'16"E	51.81		
C84	25.00	66.25	121°34'00"	45.96	119°26'15"E	53.81		
C85	25.00	69.50	121°58'00"	47.23	119°25'14"E	55.81		
C86	25.00	72.75	122°22'00"	48.50	119°24'13"E	57.81		
C87	25.00	76.00	122°46'00"	49.77	119°23'12"E	59.81		
C88	25.00	79.25	123°10'00"	51.04	119°22'11"E	61.81		
C89	25.00	82.50	123°34'00"	52.31	119°21'10"E	63.81		
C90	25.00	85.75	123°58'00"	53.58	119°20'09"E	65.81		
C91	25.00	89.00	124°22'00"	54.85	119°19'08"E	67.81		
C92	25.00	92.25	124°46'00"	56.12	119°18'07"E	69.81		
C93	25.00	95.50	125°10'00"	57.39	119°17'06"E	71.81		
C94	25.00	98.75	125°34'00"	58.66	119°16'05"E	73.81		
C95	25.00	102.00	125°58'00"	59.93	119°15'04"E	75.81		
C96	25.00	105.25	126°22'00"	61.20	119°14'03"E	77.81		
C97	25.00	108.50	126°46'00"	62.47	119°13'02"E	79.81		
C98	25.00	111.75	127°10'00"	63.74	119°12'01"E	81.81		
C99	25.00	115.00	127°34'00"	65.01	119°11'00"E	83.81		
C100	25.00	118.25	127°58'00"	66.28	119°10'00"E	85.81		
C101	25.00	121.50	128°22'00"	67.55	119°09'00"E	87.81		
C102	25.00	124.75	128°46'00"	68.82	119°08'00"E	89.81		
C103	25.00	128.00	129°10'00"	70.09	119°07'00"E	91.81		
C104	25.00	131.25	129°34'00"	71.36	119°06'00"E	93.81		
C105	25.00	134.50	129°58'00"	72.63	119°05'00"E	95.81		
C106	25.00	137.75	130°22'00"	73.90	119°04'00"E	97.81		
C107	25.00	141.00	130°46'00"	75.17	119°03'00"E	99.81		
C108	25.00	144.25	131°10'00"	76.44	119°02'00"E	101.81		
C109	25.00	147.50	131°34'00"	77.71	119°01'00"E	103.81		
C110	25.00	150.75	131°58'00"	78.98	119°00'00"E	105.81		
C111	25.00	154.00	132°22'00"	80.25	118°59'00"E	107.81		
C112	25.00	157.25	132°46'00"	81.52	118°58'00"E	109.81		
C113	25.00	160.50	133°10'00"	82.79	118°57'00"E	111.81		
C114	25.00	163.75	133°34'00"	84.06	118°56'00"E	113.81		
C115	25.00	167.00	133°58'00"	85.33	118°55'00"E	115.81		
C116	25.00	170.25	134°22'00"	86.60	118°54'00"E	117.81		
C117	25.00	173.50	134°46'00"	87.87	118°53'00"E	119.81		
C118	25.00	176.75	135°10'00"	89.14	118°52'00"E	121.81		
C119	25.00	180.00	135°34'00"	90.41	118°51'00"E	123.81		
C120	25.00	183.25	135°58'00"	91.68	118°50'00"E	125.81		
C121	25.00	186.50	136°22'00"	92.95	118°49'00"E	127.81		
C122	25.00	189.75	136°46'00"	94.22	118°48'00"E	129.81		
C123	25.00	193.00	137°10'00"	95.49	118°47'00"E	131.81		
C124	25.00	196.25	137°34'00"	96.76	118°46'00"E	133.81		
C125	25.00	199.50	137°58'00"	98.03	118°45'00"E	135.81		
C126	25.00	202.75	138°22'00"	99.30	118°44'00"E	137.81		
C127	25.00	206.00	138°46'00"	100.57	118°43'00"E	139.81		
C128	25.00	209.25	139°10'00"	101.84	118°42'00"E	141.81		
C129	25.00	212.50	139°34'00"	103.11	118°41'00"E	143.81		
C130	25.00	215.75	139°58'00"	104.38	118°40'00"E	145.81		
C131	25.00	219.00	140°22'00"	105.65	118°39'00"E	147.81		
C132	25.00	222.25	140°46'00"	106.92	118°38'00"E	149.81		
C133	25.00	225.50	141°10'00"	108.19	118°37'00"E	151.81		
C134	25.00	228.75	141°34'00"	109.46	118°36'00"E	153.81		
C135	25.00	232.00	141°58'00"	110.73	118°35'00"E	155.81		
C136	25.00	235.25	142°22'00"	112.00	118°34'00"E	157.81		
C137	25.00	238.50	142°46'00"	113.27	118°33'00"E	159.81		
C138	25.00	241.75	143°10'00"	114.54	118°32'00"E	161.81		
C139	25.00	245.00	143°34'00"	115.81	118°31'00"E	163.81		
C140	25.00	248.25	143°58'00"	117.08	118°30'00"E	165.81		
C141	25.00	251.50	144°22'00"	118.35	118°29'00"E	167.81		
C142	25.00	254.75	144°46'00"	119.62	118°28'00"E	169.81		
C143	25.00	258.00	145°10'00"	120.89	118°27'00"E	171.81		
C144	25.00	261.25	145°34'00"	122.16	118°26'00"E	173.81		
C145	25.00	264.50	145°58'00"	123.43	118°25'00"E	175.81		
C146	25.00	267.75	146°22'00"	124.70	118°24'00"E	177.81		
C147	25.00	271.00	146°46'00"	125.97	118°23'00"E	179.81		
C148	25.00	274.25	147°10'00"	127.24	118°22'00"E	181.81		
C149	25.00	277.50	147°34'00"	128.51	118°21'00"E	183.81		
C150	25.00	280.75	147°58'00"	129.78	118°20'00"E	185.81		
C151	25.00	284.00	148°22'00"	131.05	118°19'00"E	187.81		
C152	25.00	287.25	148°46'00"	132.32	118°18'00"E	189.81		
C153	25.00	290.50	149°10'00"	133.59	118°17'00"E	191.81		
C154	25.00	293.75	149°34'00"	134.86	118°16'00"E	193.81		
C155	25.00	297.00	149°58'00"	136.13	118°15'00"E	195.81		
C156	25.00	300.25	150°22'00"	137.40	118°14'00"E	197.81		
C157	25.00	303.50	150°46'00"	138.67	118°13'00"E	199.81		
C158	25.00	306.75	151°10'00"	139.94	118°12'00"E	201.81		
C159	25.00	310.00	151°34'00"	141.21	118°11'00"E	203.81		
C160	25.00	313.25	151°58'00"	142.48	118°10'00"E	205.81		
C161	25.00	316.50	152°22'00"	143.75	118°09'00"E	207.81		
C162	25.00	319.75	152°46'00"	145.02	118°08'00"E	209.81		
C163	25.00	323.00	153°10'00"	146.29	118°07'00"E	211.81		
C164	25.00	326.25	153°34'00"	147.56	118°06'00"E	213.81		
C165	25.00	329.50	153°58'00"	148.83	118°05'00"E	215.81		
C166	25.00	332.75	154°22'00"	150.10	118°04'00"E	217.81		
C167	25.00	336.00	154°46'00"	151.37	118°03'00"E	219.81		
C168	25.00	339.25	155°10'00"	152.64	118°02'00"E	221.81		
C169	25.00	342.50	155°34'00"	153.91	118°01'00"E	223.81		
C170	25.00	345.75	155°58'00"	155.18	118°00'00"E	225.81		
C171	25.00	349.00	156°22'00"	156.45	117°59'00"E	227.81		
C172	25.00	352.25	156°46'00"	157.72	117°58'00"E	229.81		
C173	25.00	355.50	157°10'00"	158.99	117°57'00"E	231.81		
C174	25.00	358.75	157°34'00"	160.26	117°56'00"E	233.81		
C175	25.00	362.00	157°58'00"	161.53	117°55'00"E	235.81		

NUMBER	R	L	D	T	D	BEARINGS	CHORD	LE
C1	18854.00	530.77	07°37'27"	265.40	N08°37'50"E	530.76		
C2	25000.00	709.61	16°15'47"	353.21	N08°28'22"E	707.23		
C3	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C4	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C5	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C6	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C7	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C8	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C9	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C10	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C11	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C12	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C13	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C14	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C15	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C16	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C17	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C18	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C19	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C20	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C21	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C22	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C23	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C24	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C25	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C26	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C27	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C28	7995.44	383.50	02°40'21"	160.23	N01°25'46"E	383.56		
C29	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C30	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C31	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C32	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C33	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C34	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C35	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C36	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C37	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C38	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C39	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C40	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C41	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C42	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C43	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C44	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C45	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C46	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C47	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C48	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C49	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C50	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C51	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C52	30000.00	1201.75	35°31'53"	104.86	N19°33'42"E	197.67		
C53	97.00	30.67	23°32'58"	20.27	S76°00'10"W	50.17		
C54	25.00	16.63	09°10'06"	1.97	S88°49'51"E	3.92		
C55	25.00	16.63	42°50'14"	9.81	S88°51'59"E	12.28		
C56	94.00	31.45	19°10'07"	15.87	N7°32'57"E	31.36		
C57	94.00	11.89	07°14'53"	5.95	N08°38'31"E	11.49		
C58	30.00	81.52	88°27'47"	40.08	N7°52'13"	73.72		
C59	25.00	46.08	97°51'41"	25.83	N4°34'52"E	35.93		
C60	202.00	11.02	03°38'09"	6.53	N45°38'04"E	35.92		
C61	300.00	22.62	12°15'02"	12.15	N69°46'30"E	13.05		
C62	300.00	43.86	08°45'32"	22.86	N4°26'53"E	21.86		
C63	25.00	46.46	100°29'12"	33.47	N37°00'30"E	40.62		
C64	97.00	16.27	10°47'38"	9.16	N10°49'12"E	12.25		
C65	97.00	8.83	05°41'23"	4.82	N02°34'41"W	9.63		
C66	97.00	27.91	19°29'02"	14.05	N07°58'30"W	27.81		
C67	25.00	37.89	88°49'20"	23.65	N02°42'28"E	34.36		
C68	150.00	13.84	05°07'43"	6.92	N89°51'40"E	13.84		
C69	30.00	38.45	88°10'47"	24.20	N43°31'53"W	34.77		
C70	25.00	41.69	85°55'18"	27.33	N47°49'40"E	36.89		
C71	30.00	37.00	84°52'27"	22.68	N72°40'28"W	33.78		
C72	25.00	125.38	21°56'42"	63.62	N72°40'28"W	124.47		
C73	300.00	146.62	12°23'26"	74.68	N54°05'35"E	145.61		
C74	330.00	35.95	14°23'27"	21.88	N54°05'35"E	32.53		
C75	33.00							

SCANNED BY
PLANNING

NOTES



SECTION A-A



STATION TRANS IS LOCATED 6' M. SOUTHWEST OF DOWNHILL ALBUQUERQUE IN THE P.W.M. OF A PLANS ELECTRIC CO-OP TRANS. MISSION LINE TO BE CH. STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 M. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD. THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 M. TO Pylon Numbered 32. STATION IS JUST EAST OF THIS POINT. STATION MARK IS STANDARD USCARC BRASS TABLET STAMPED TRANS 1988 SET IN TOP OF CONCRETE POST PROJECTING 0.1 FT.



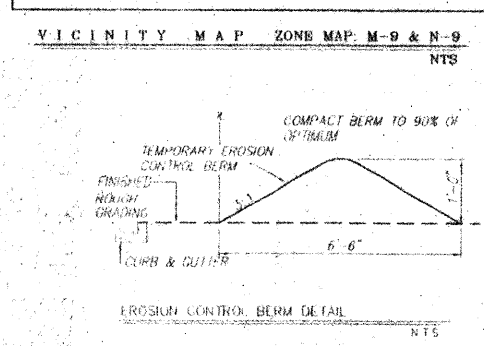
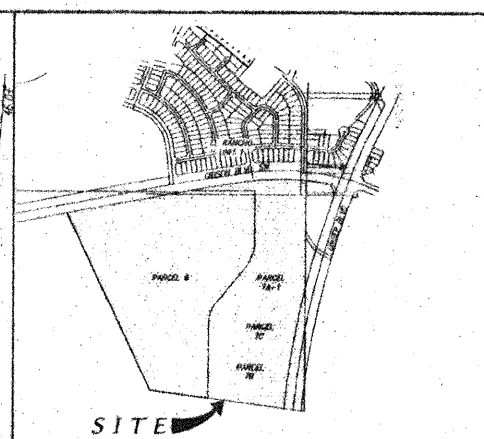
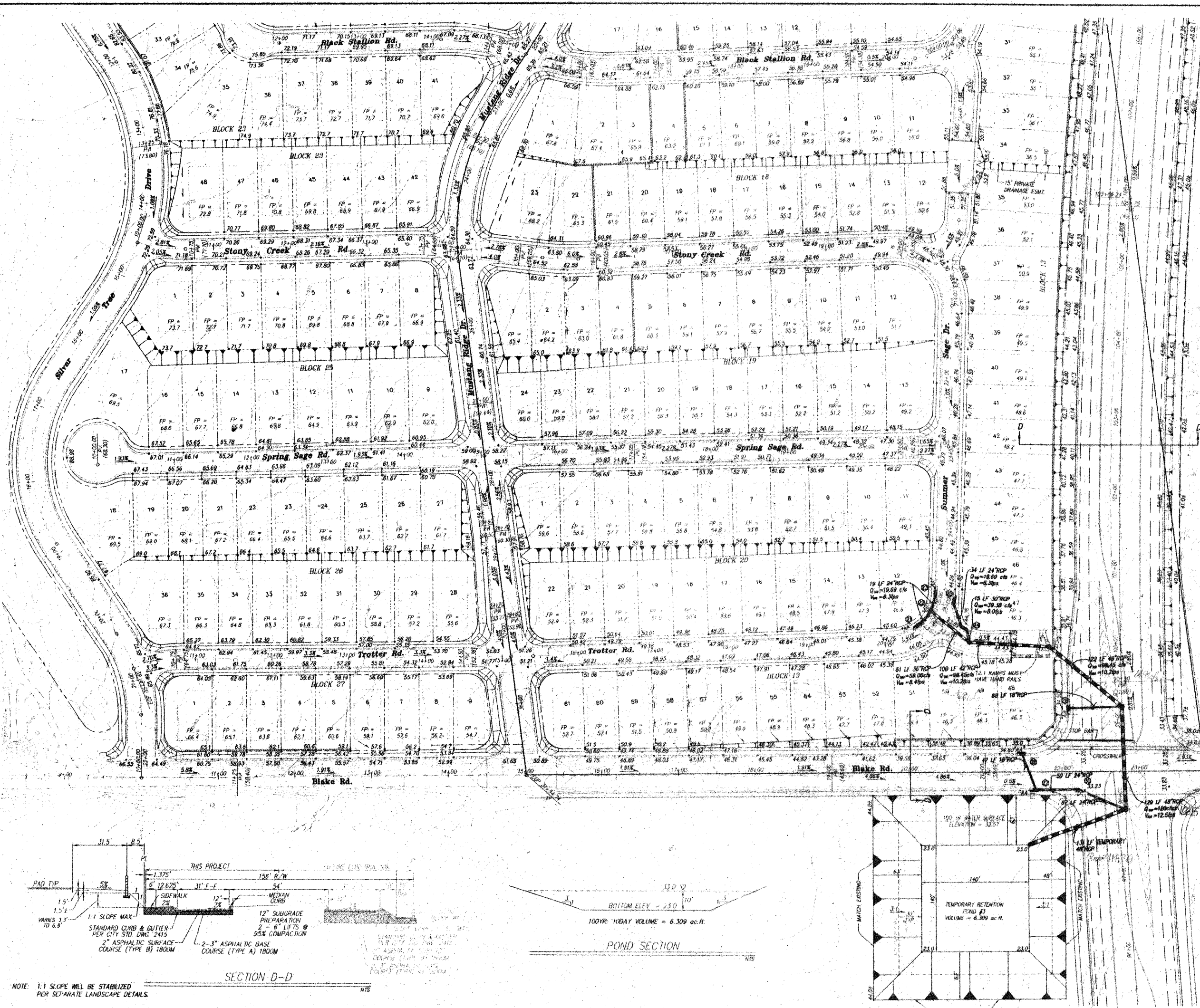
SCALE: 1" = 60'

MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4
GRADING & DRAINAGE PLAN

CITY PROJECT NO.	645684	DATE	10/24/05
CITY ENGINEER'S APPROVAL		DATE	10/24/05
CITY PROJECT NO.	645684	DATE	10/24/05
CITY ENGINEER'S APPROVAL		DATE	10/24/05



- EROSION CONTROL 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 SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
 4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITES INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL. THIS SHEET AND BY SETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
 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 FLOW LINE ELEVATIONS.

STATION 18+00 IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE B.O.M. OF A PLANS ELECTRIC CO-OP TRANS-MISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH CHERRY BLVD. & SNOW MOUNT BLVD. THEN SOUTHWEST ALONG SNOW MOUNT AVE. CO-OP ELECTRIC TRANSMISSION LINE 0.6 MI. TO STATION 18+00. STATION IS JUST EAST OF THIS POINT. STATION MARK IS STANDARD USACB BRASS TABLET STAMPED "TRANS. 18+00" SET IN TOP OF CONCRETE POST PROJECTING 6" FT.

4-6-01

01/01/01
01/01/01
01/01/01

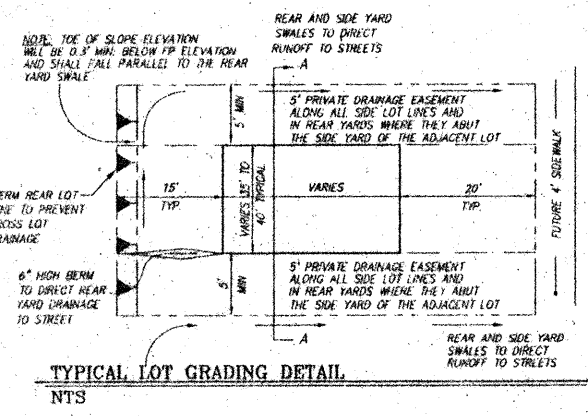
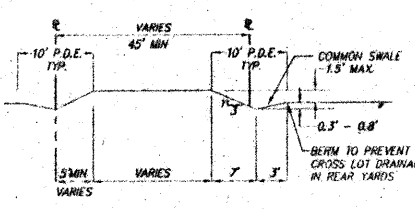
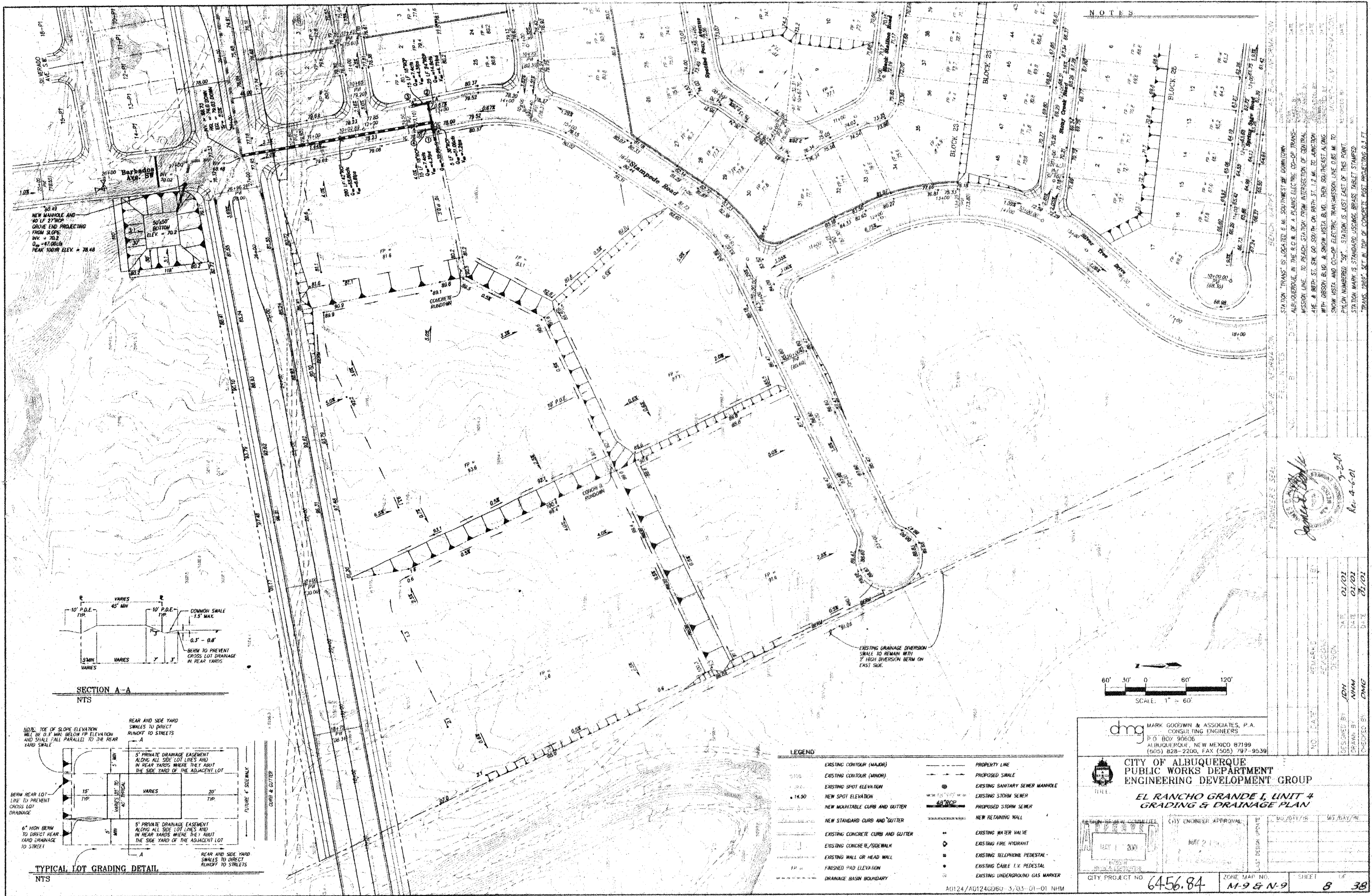
DMG
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
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**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP**

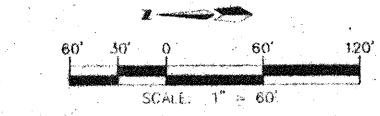
**EL RANCHO GRANDE I, UNIT 4
GRADING & DRAINAGE PLAN**

APPROVED

CITY PROJECT NO. **645684** ZONE MAP NO. **M-9 & N-9** SHEET **7** OF **38**



LEGEND	
EXISTING CONTOUR (MAJOR)	PROPERTY LINE
EXISTING CONTOUR (MINOR)	PROPOSED SWALE
EXISTING SPOT ELEVATION	EXISTING SANITARY SEWER MANHOLE
NEW SPOT ELEVATION	EXISTING STORM SEWER
NEW MOUNTABLE CURB AND GUTTER	PROPOSED STORM SEWER
NEW STANDARD CURB AND GUTTER	NEW RETAINING WALL
EXISTING CONCRETE CURB AND GUTTER	EXISTING WATER VALVE
EXISTING CONCRETE SIDEWALK	EXISTING FIRE HYDRANT
EXISTING WALL OR HEAD WALL	EXISTING TELEPHONE PEDESTAL
FINISHED ROAD ELEVATION	EXISTING CABLE T.V. PEDESTAL
DRAINAGE BASIN BOUNDARY	EXISTING UNDERGROUND GAS MARKER



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
EL RANCHO GRANDE I, UNIT 4
GRADING & DRAINAGE PLAN

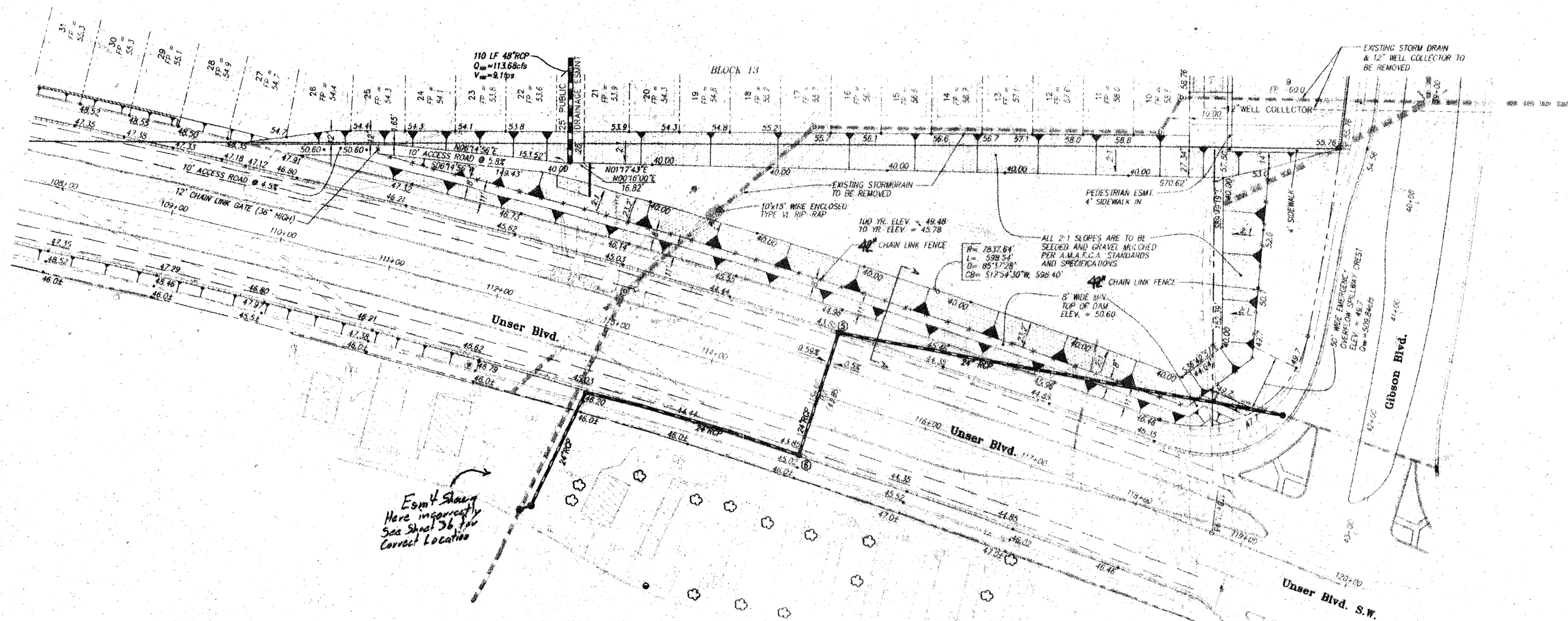
CITY ENGINEER APPROVAL: [Signature]
DATE: 01/01/01

DESIGNED BY: JCH
DRAWN BY: NMM
CHECKED BY: DMG

CITY PROJECT NO: 6456.84
ZONE MAP NO: M-9 & N-9
SHEET: 8 OF 38

James J. Smith
3-20-01
Rev. 4-6-01

NO.	DATE	REVISION
1	01/01/01	DESIGN
2	01/01/01	DATE
3	01/01/01	DATE

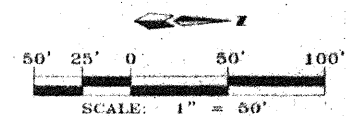
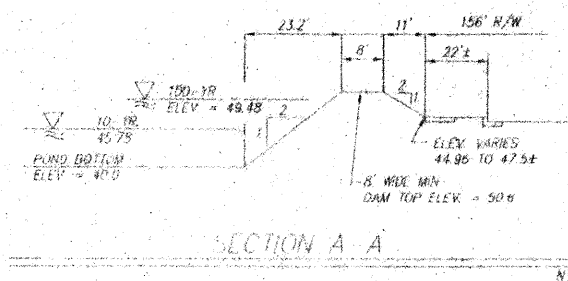


Estm 4 Shaeq
Here incorrectly
See Shaeq 36 for
Correct Location

LEGEND

EXISTING CONTOUR (MAJOR)		PROPERTY LINE
EXISTING CONTOUR (MINOR)		PROPOSED SWALE
EXISTING SPOT ELEVATION		EXISTING SANITARY SEWER MANHOLE
NEW SPOT ELEVATION		EXISTING STORM SEWER
NEW MOUNTABLE CURB AND GUTTER		PROPOSED STORM SEWER
NEW STANDARD CURB AND GUTTER		NEW RETAINING WALL
EXISTING CONCRETE CURB AND GUTTER		EXISTING WATER VALVE
EXISTING CONCRETE/SIDEWALK		EXISTING FIRE HYDRANT
EXISTING WALL OR HEAD WALL		EXISTING TELEPHONE PEDESTAL
FINISHED PAD ELEVATION		EXISTING CABLE T.V. PEDESTAL
DRAINAGE BASIN BOUNDARY		EXISTING UNDERGROUND GAS MARKER
		PROPOSED 36" HIGH CHAIN LINK FENCE

AREA TO BE SEEDED AND GRAVEL MULCHED
PER A.M.A.F.C.A. STANDARDS & SPECIFICATIONS

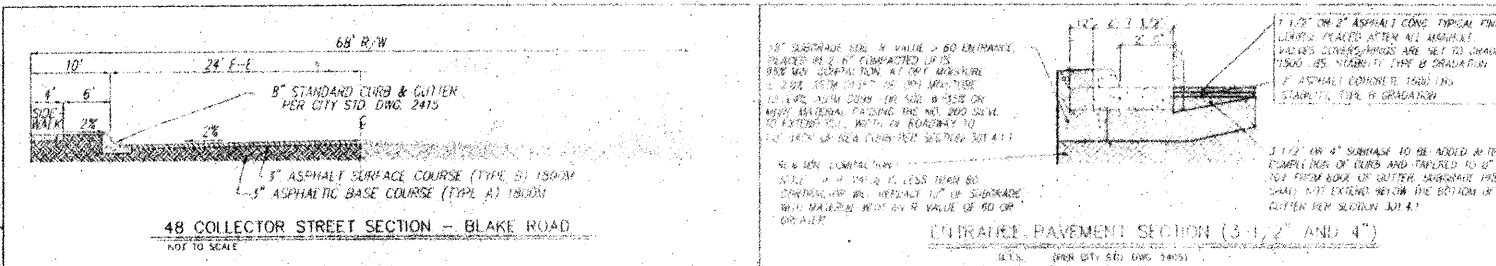


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 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

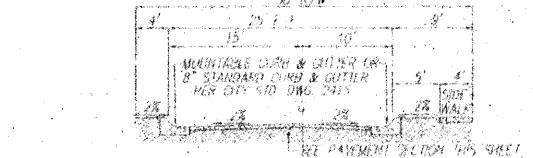
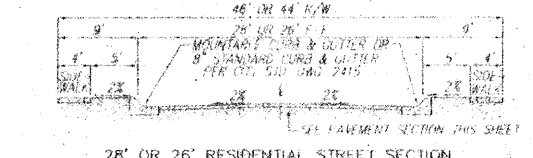
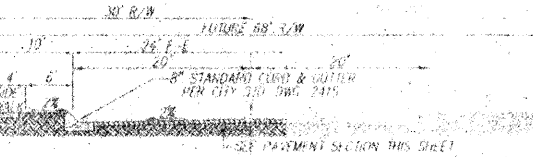
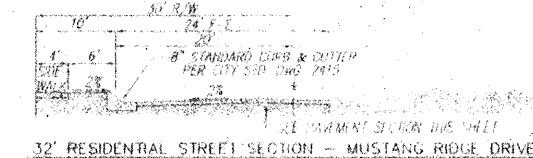
*EL RANCHO GRANDE I, UNIT 4
POND DETAIL SHEET*

CITY PROJECT NO		6456.84		ZONING MAP NO		M-9 & N-9		SHEET		9 38	
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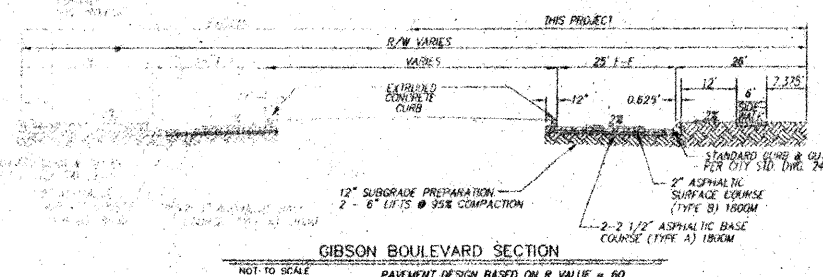
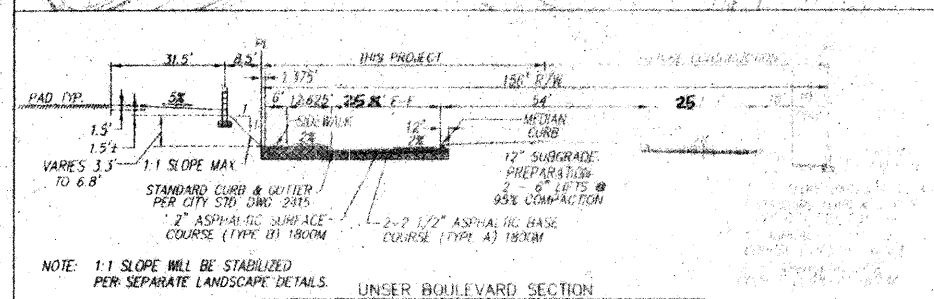
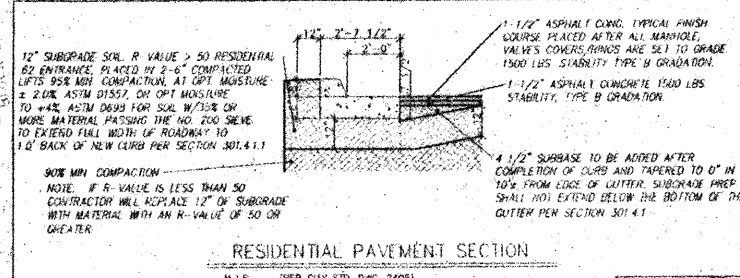
NOTES

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, EXCEPT 10' VALLEY GUTTERS ARE PER CITY OF ALBUQUERQUE STANDARD DRAWING 2422.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. TRANSITION FROM ROLL CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE DRAWING 2418, UNLESS OTHERWISE SPECIFIED.
4. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441 WHERE GRADES DO NOT EXCEED A MAXIMUM SLOPE OF 12.1% BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED. THEN THE 7' LENGTH AS SHOWN IN DRAWING 2441 SHALL BE INCREASED TO MAINTAIN A SLOPE < 12.1%.
5. TRANSITION SECTIONS FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50' AND TRANSITION SECTIONS FROM FULL CROWN TO HALF CROWN TO BE A MINIMUM OF 25' PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.



LEGEND

- | | |
|-------------------------------------|------------------------------|
| NEW MOUNTABLE CURB AND GUTTER | LOT LINE |
| FUTURE MOUNTABLE CURB AND GUTTER | RIGHT-OF-WAY LINE |
| NEW STANDARD CURB AND GUTTER | CENTERLINE |
| FUTURE STANDARD CURB AND GUTTER | ARTERIAL PAVEMENT (1\"/> |
| EXISTING CONCRETE CURB AND GUTTER | ARTERIAL PAVEMENT (6\"/> |
| EXISTING CONCRETE SIDEWALK | BLAKE THIS PROJECT |
| EXISTING WALL | ENTRANCE PAVEMENT (3 1/2\"/> |
| SIDEWALK PER C.O.A. STD. DWG. #2430 | ENTRANCE PAVEMENT (4\"/> |
| DEFERRED SIDEWALK | THIS PROJECT |
| STORM DRAIN INLET THIS PROJECT | TEMPORARY 4\"/> |
| EXISTING STORM DRAIN INLET | PER C.O.A. STD. DWG. #2415 |
| PROPOSED STREET LIGHT | CROWN TRANSITION SEE NOTE 5 |

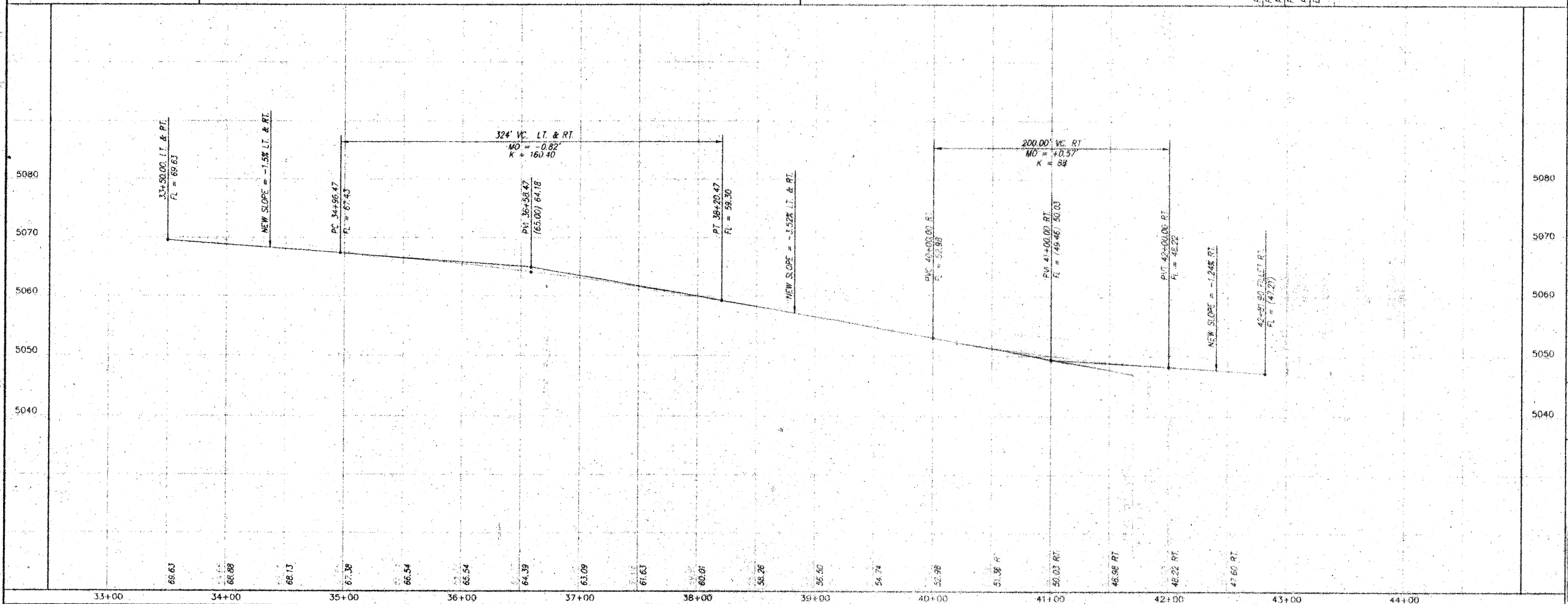
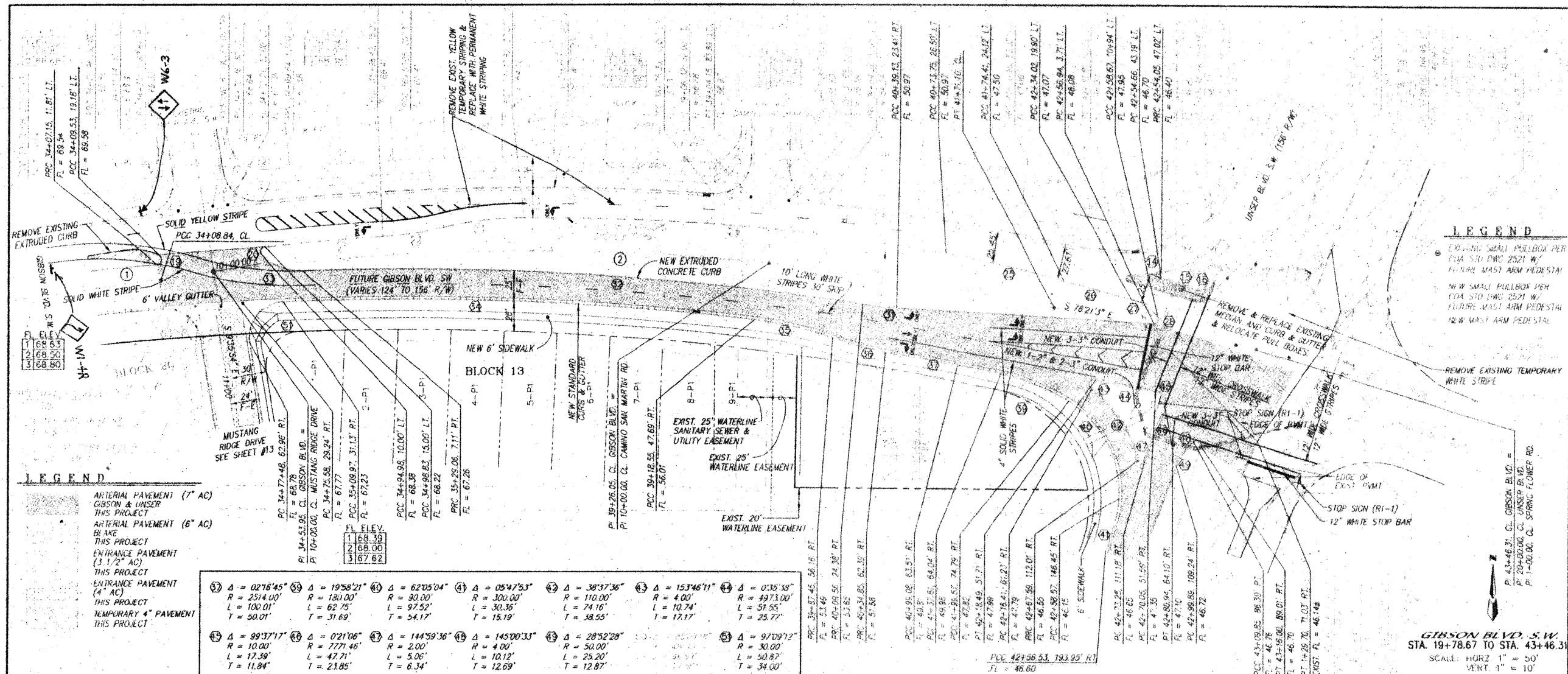


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**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP**

**EL RANCHO GRANDE I, UNIT 4A
MASTER PAVING PLAN**

CITY PROJECT NO. **6456.84** SHEET **10 38**



NOTES

1 ALL STATIONING IS CENTERLINE STATIONING.
CURVE DATA - DESCRIBES FACE OF CURB

LEGEND

NEW SMALL PULLBOX PER
COA STD DWG 2521 W/
FLUORE MAS1 ARM PEDESTAL

REMOVE EXISTING TEMPORARY

WHITE STRIPE

R RD.

CL 6	CL 7	CL 8
------	------	------

$P_1: 43+46.3\%$
 $P_2: 20+50.00$
 $P_3: 1+50.00, C$

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

5080

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	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
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	5060
	5050

CURVE DATA - DESCRIBES CENTERLINE

$$\begin{array}{ll} \textcircled{1} \quad A = 0007.05'' & \textcircled{2} \quad A = 1951.07'' \\ R = 2000.00' & R = 2700.00' \\ L = 41.20' & L = 762.26' \\ T = N/A & T = 384.99' \end{array}$$

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(505) 828-2700, FAX (505) 797-3

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

*EL RANCHO GRANDE I - UNIT 4A
PAVEMENT IMPROVEMENTS*

REVIEW COMMITTEE

DATE	DESCRIPTION	AMOUNT	BALANCE
1941			
1942			
1943			
1944			
1945			
1946			
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STATION TRANS. IS LOCATED 8 MI. SOUTHWEST OF DOWNTOWN
MILWAUKEE, IN THE B.G.W. OF A PLAINS ELECTRIC CO.-OR TRANS-
MISSION LINE TO REACH STATION FROM INTERSECTION OF CENTRAL
AVENUE & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO LANTION
ON GREEN BLDG. & 30TH WEST AVE. THEN SOUTHEAST ALONG
30TH WEST AVE AND CO-OP ELECTRIC TRANSMISSION LINE 0.65 MI. TO
STATION NUMERATED "52". STATION IS JUST EAST OF THIS POINT.
J-54, 489, 45, 1 MI. S.W. COR. 147E, 267, G-G = A-969, 727 (MAC 1927)
J-54, 489, 45, 1 MI. S.W. COR. 147E, 267, G-G = A-969, 727 (MAC 1927)

10-1-5

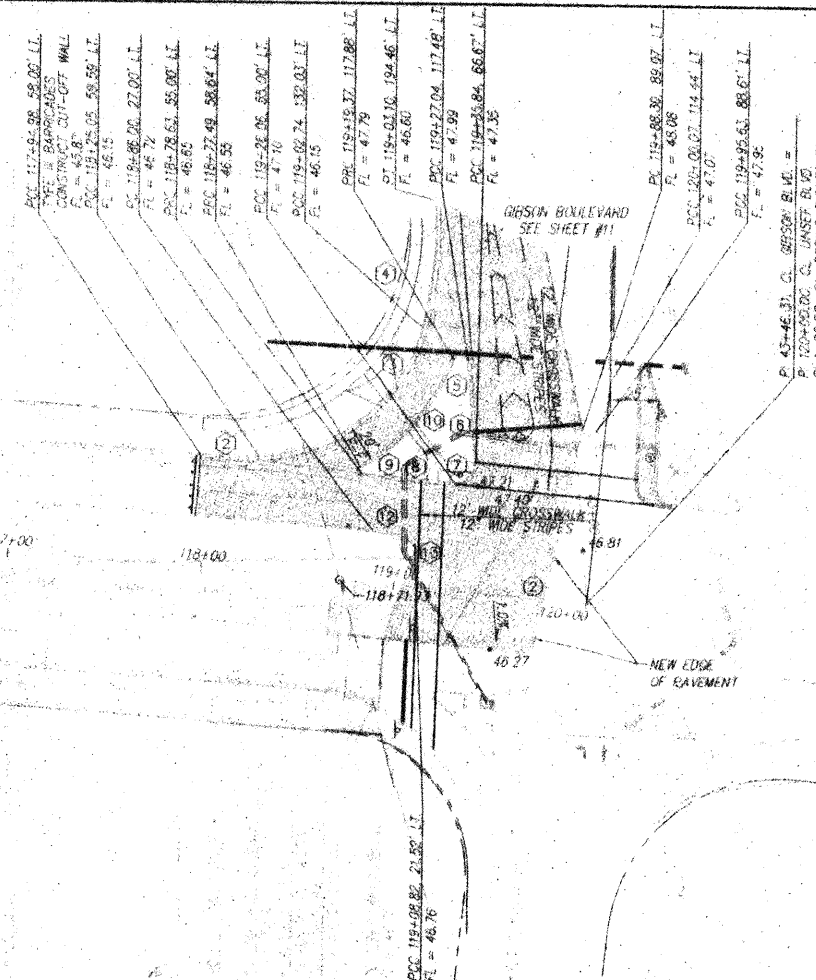
James D. [Signature]

NEW YORK COUNTY CLERK
NEW YORK

10-1-5

03/01	03/01	03/01
DMG	ACH	ACH

SCANNED BY
PLANNING



UNSER BOULEVARD
STA. 112+00.00 TO STA. 120+00.00
SCALE: HORIZ 1" = 50'
VERT 1" = 10'

NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES CENTERLINE

(2) $\Delta = 05^\circ 03'$
 $R = 717.46'$
 $L = 64.03'$
 $L = 128.07'$

CURVE DATA - DESCRIBES FACE OF NEW CURB

(2) $\Delta = 54^\circ 53'$ (3) $\Delta = 72^\circ 46' 30''$
 $R = 500.00'$ $R = 90.00'$
 $L = 15.19'$ $L = 66.32'$
 $L = 50.36'$ $L = 114.31'$

(4) $\Delta = 19^\circ 58' 26''$ (5) $\Delta = 18^\circ 46' 11''$ (6) $\Delta = 0^\circ 35' 39''$
 $R = 180.00'$ $R = 4.00'$ $R = 4973.00'$
 $L = 31.70'$ $L = 17.17'$ $L = 25.79'$
 $L = 62.75'$ $L = 10.74'$ $L = 51.58'$

(7) $\Delta = 99^\circ 36' 22''$ (8) $\Delta = 02^\circ 08'$ (9) $\Delta = 145^\circ 02' 47''$
 $R = 10.00'$ $R = 772.46'$ $R = 2.00'$
 $L = 11.83'$ $L = 23.89'$ $L = 6.15'$
 $L = 17.38'$ $L = 47.77'$ $L = 5.06'$

(10) $\Delta = 38^\circ 19' 52''$ (11) $\Delta = 27^\circ 13' 51''$
 $R = 110.00'$ $R = 50.00'$
 $L = 38.59'$ $L = 12.11'$
 $L = 74.23'$ $L = 23.76'$

(13) $\Delta = 146^\circ 40' 17''$
 $R = 4.00'$
 $L = 13.36'$
 $L = 10.24'$

CURVE DATA - DESCRIBES EDGE OF TEMPORARY PAVING

LEGEND

ARTERIAL PAVEMENT (7" AC)
GIBSON & UNSER
THIS PROJECT

ARTERIAL PAVEMENT (6" AC)
BLANK
THIS PROJECT

ENTRANCE PAVEMENT
(3 1/2" AC)
THIS PROJECT

ENTRANCE PAVEMENT
(4" AC)
THIS PROJECT

TEMPORARY 4" PAVEMENT
THIS PROJECT PER C.O.A. STD. DWG. 2415

dmg

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4A
PAVING IMPROVEMENTS



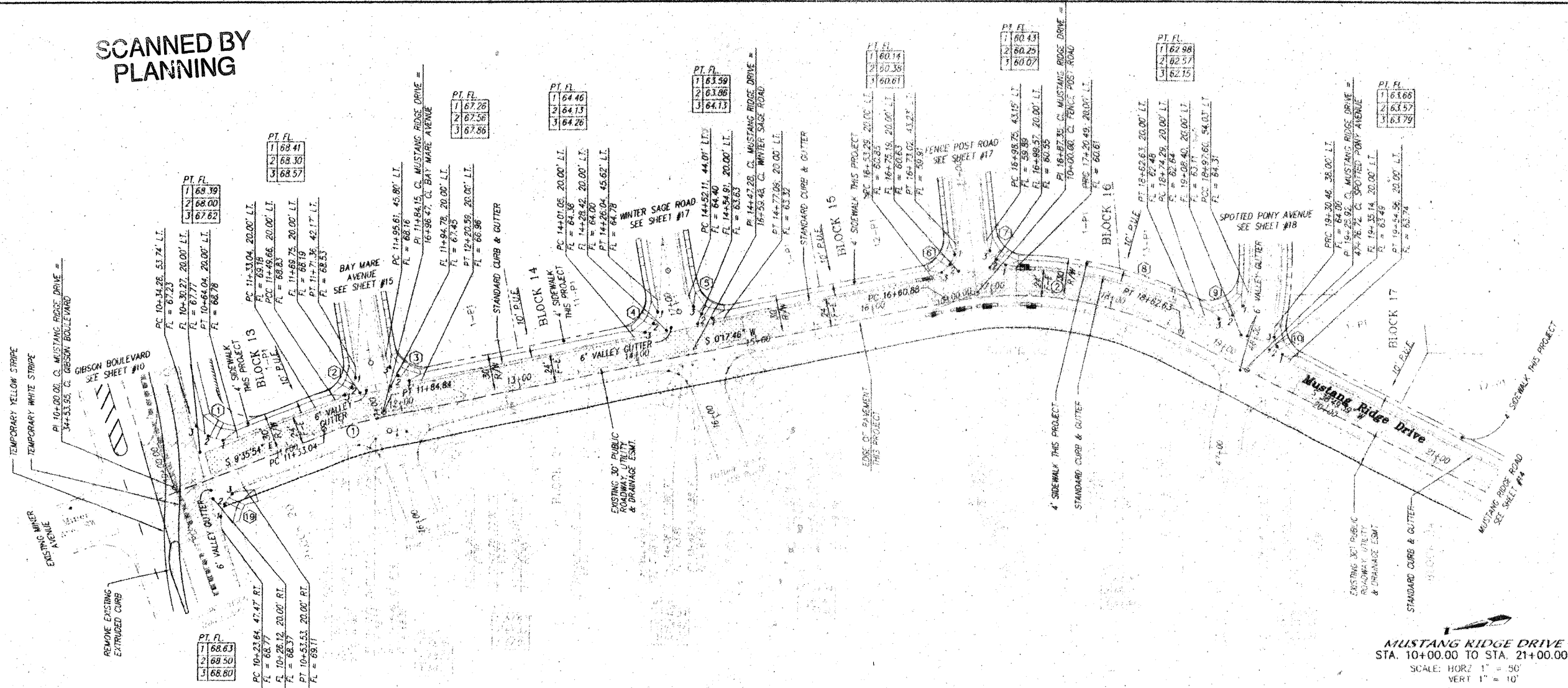
CITY PROJECT NO.

6456.84

DATE: 08/19/00

12 38

SCANNED BY
PLANNING



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta = 93^\circ 34' 00''$ $R = 300.00'$ $T = 25.97'$ $L = 51.81'$	② $\Delta = 38^\circ 31' 53''$ $R = 300.00'$ $T = 104.86'$ $L = 201.75'$
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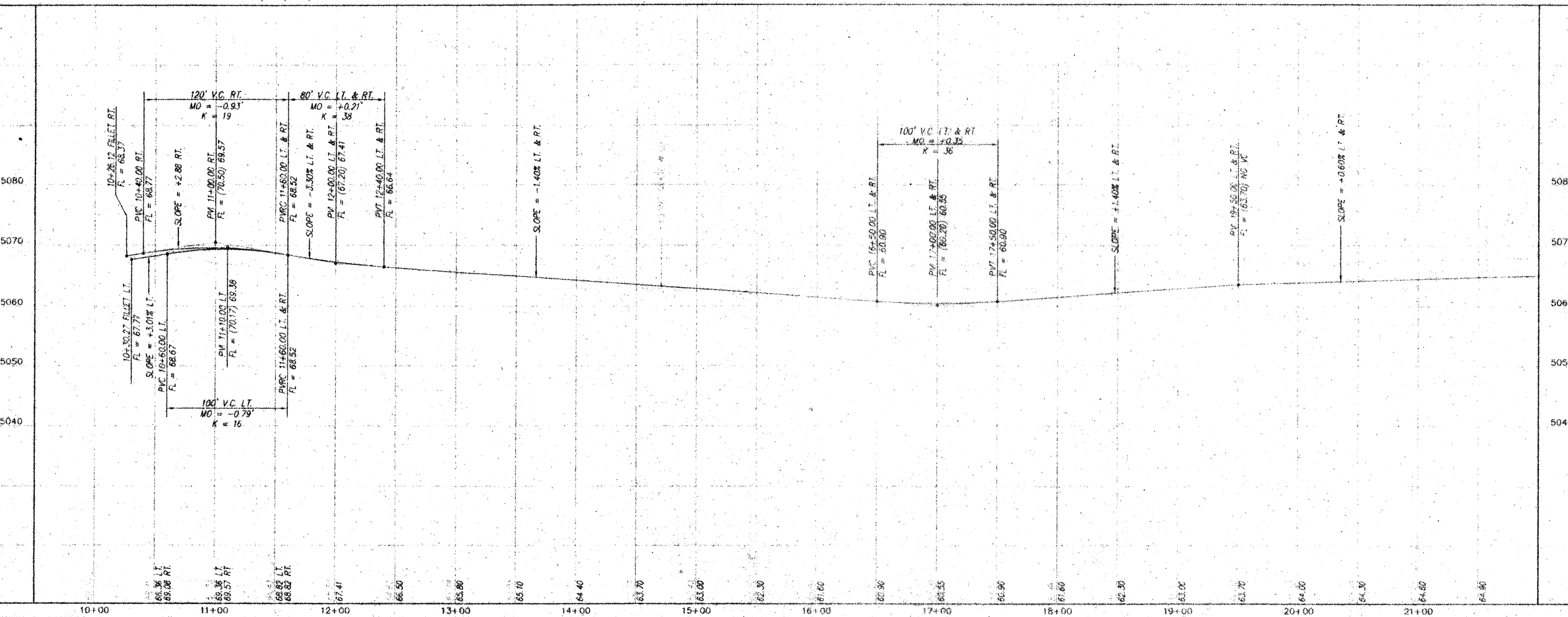
CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 97^\circ 09' 12''$ $R = 30.00'$ $T = 34.00'$ $L = 50.87'$	② $\Delta = 81^\circ 26' 24''$ $R = 25.00'$ $T = 21.52'$ $L = 35.53'$	③ $\Delta = 91^\circ 50' 28''$ $R = 25.00'$ $T = 25.00'$ $L = 40.07'$
④ $\Delta = 91^\circ 28' 20''$ $R = 25.00'$ $T = 25.65'$ $L = 39.91'$	⑤ $\Delta = 87^\circ 44' 21''$ $R = 25.00'$ $T = 24.05'$ $L = 39.28'$	⑥ $\Delta = 84^\circ 56' 27''$ $R = 25.00'$ $T = 22.88'$ $L = 37.06'$
⑦ $\Delta = 83^\circ 40' 50''$ $R = 25.00'$ $T = 22.88'$ $L = 36.51'$	⑧ $\Delta = 00^\circ 53' 51''$ $R = 5041.00'$ $T = 79.02'$ $L = 39.51'$	⑨ $\Delta = 27^\circ 08' 50''$ $R = 320.00'$ $T = 17.28'$ $L = 151.62'$
⑩ $\Delta = 111^\circ 10' 43''$ $R = 25.00'$ $T = 36.50'$ $L = 48.51'$		

⑬ $\Delta = 85^\circ 09' 18''$ $R = 50.00'$ $T = 27.56'$ $L = 44.59'$
--

STATION 'TRANS' IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE IN THE E.O.M. OF A PLANS ELECTRIC CO-OP TRANS MISSION LINE TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. CC SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW MSTA BLVD. THEN SOUTHWEST ALONG SNOW MSTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO P.O.D. NUMBERED '302'. STATION IS JUST EAST OF THIS POINT.
 $L = 354.993$ AS $Y = 1.47$, $RZT = 61$, $C = 5$, $E = 0.998579$ (RAD 1927)
ACS MON. 11. MB. SW COR. BETH & SAGE, VALUED 25.5L = 647.87

MUSTANG RIDGE DRIVE
STA. 10+00.00 TO STA. 21+00.00
SCALE: HORIZ 1" = 50'
VERT 1" = 10'



LEGEND

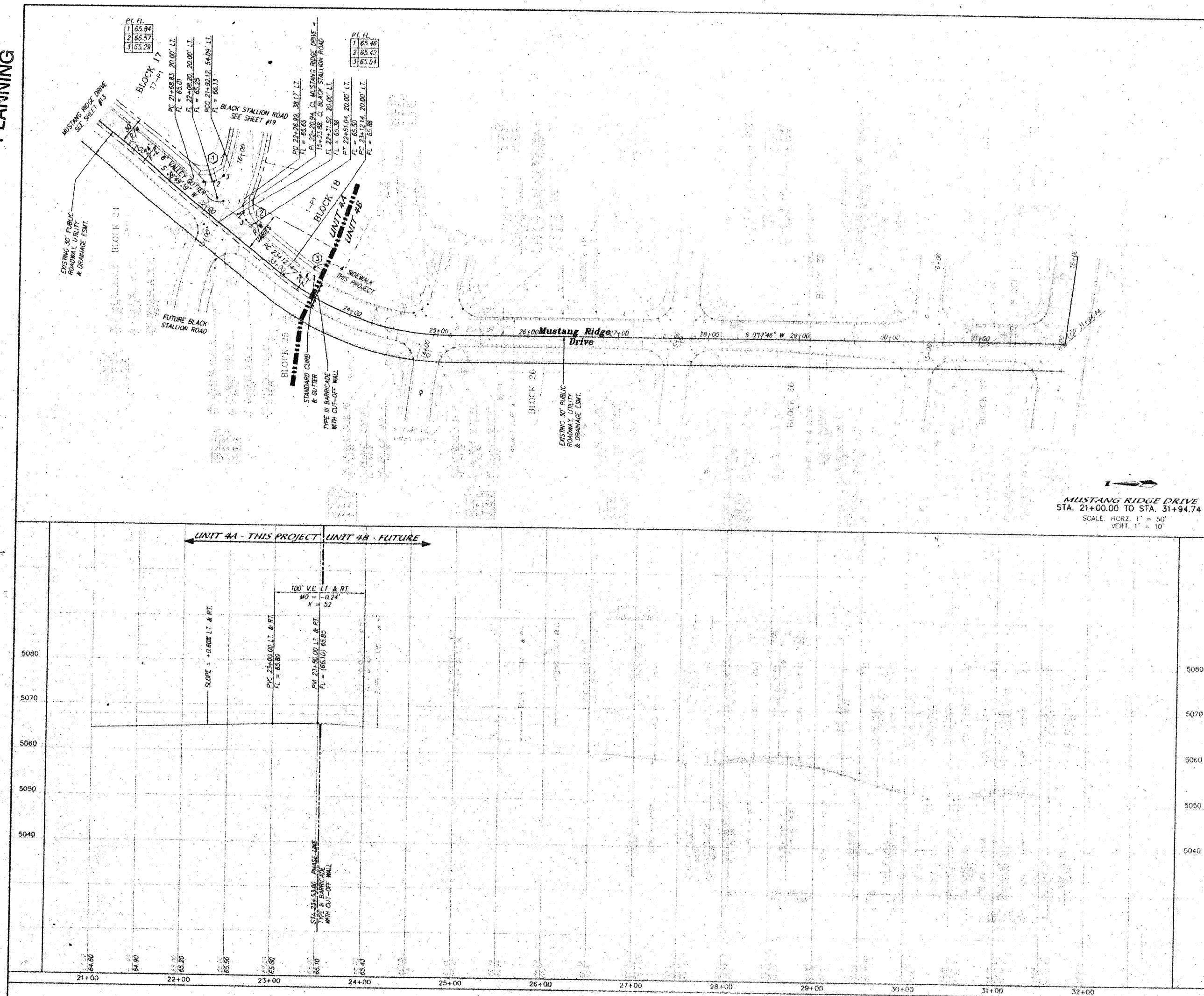
- ARTERIAL PAVEMENT (17' AC) GIBSON & UNSER THIS PROJECT
- ARTERIAL PAVEMENT (6" AC) BLAKE THIS PROJECT
- ENTRANCE PAVEMENT (3 1/2" AC) THIS PROJECT
- ENTRANCE PAVEMENT (4" AC) THIS PROJECT
- TEMPORARY 4" PAVEMENT PER C.O.A. STD. DWR. #2415

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
EL RANCHO GRANDE I, UNIT 4A
PAVING IMPROVEMENTS



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PLANNING



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta \approx 38^{\circ}31'53''$
 $R \approx 300.00'$
 $I \approx 104.86'$
 $L \approx 201.75'$

CURVE DATA DESCRIBES FACE OF NEW CURB

(1) $\Delta = 111^{\circ}59'17''$ (2) $\Delta = 74^{\circ}08'26''$ (3) $\Delta = 26^{\circ}09'22''$
 $R = 25.00'$ $R = 25.00'$ $R = 280.00'$
 $I = 36.59'$ $I = 18.69'$ $I = 70.22'$
 $L = 48.5''$ $L = 32.35'$ $L = 132.60'$

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DUNFORTH,
ALBERTA, CANADA, IN THE R.O.M. OF A PLAINS ELECTRIC CO-OP TRANS-
MISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL
AVE. & 96TH ST. SW, GO SOUTH ON 96TH ST. 1.2 MI. TO JUNCTION
A15, GO WEST ON A15, GO SOUTH A LITTLE, THEN SOUTHWEST ALONG
SLOW WISA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO
P.O. ON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 351,000, Y = 1,471,022, G-C = 0.9986, ZENITHAL ANGLE = 87
ACCS WITH "1" HP. SW COORD. 96TH & SAGE: UTM 25, E = 545, 87

MUSTANG RIDGE DRIVE
STA. 21+00.00 TO STA. 31+94.74
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

LEGEND

ARTERIAL PAVEMENT (7' AC)
GIBSON & UNSEER
THIS PROJECT
ARTERIAL PAVEMENT (6' AC)
BLAKE
THIS PROJECT
ENTRANCE PAVEMENT
(3 1/2' AC)
THIS PROJECT
ENTRANCE PAVEMENT
(4' AC)
THIS PROJECT
TEMPORARY 4" PAVEMENT
PER C.O.A. STD DWG #2415

dmg MARK GOODWIN & ASSOCIATES, P.A.
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 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

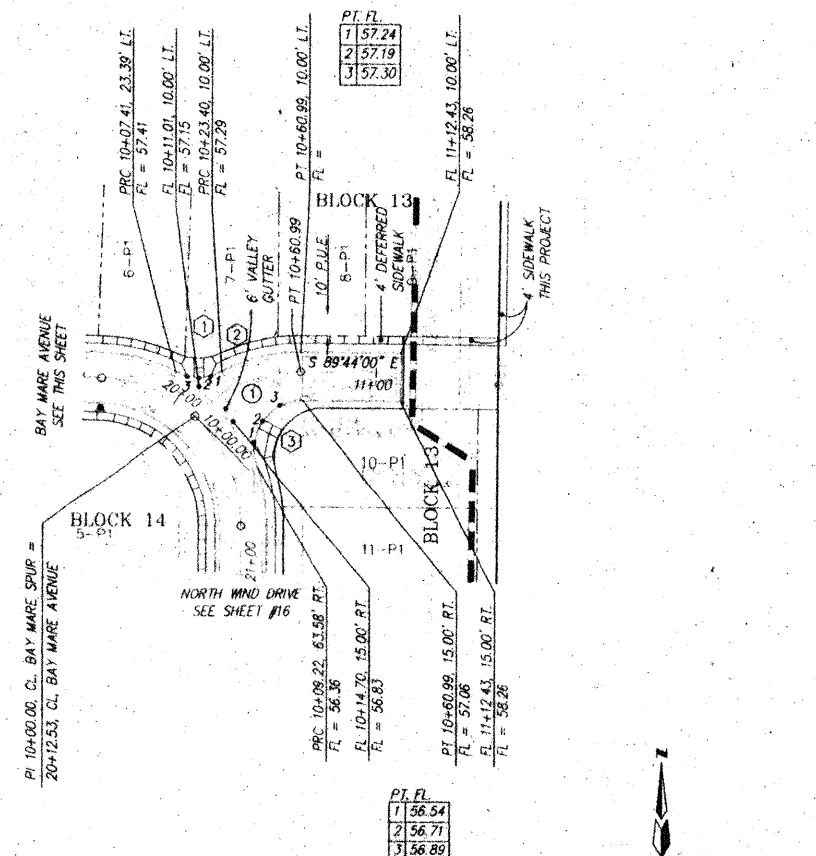
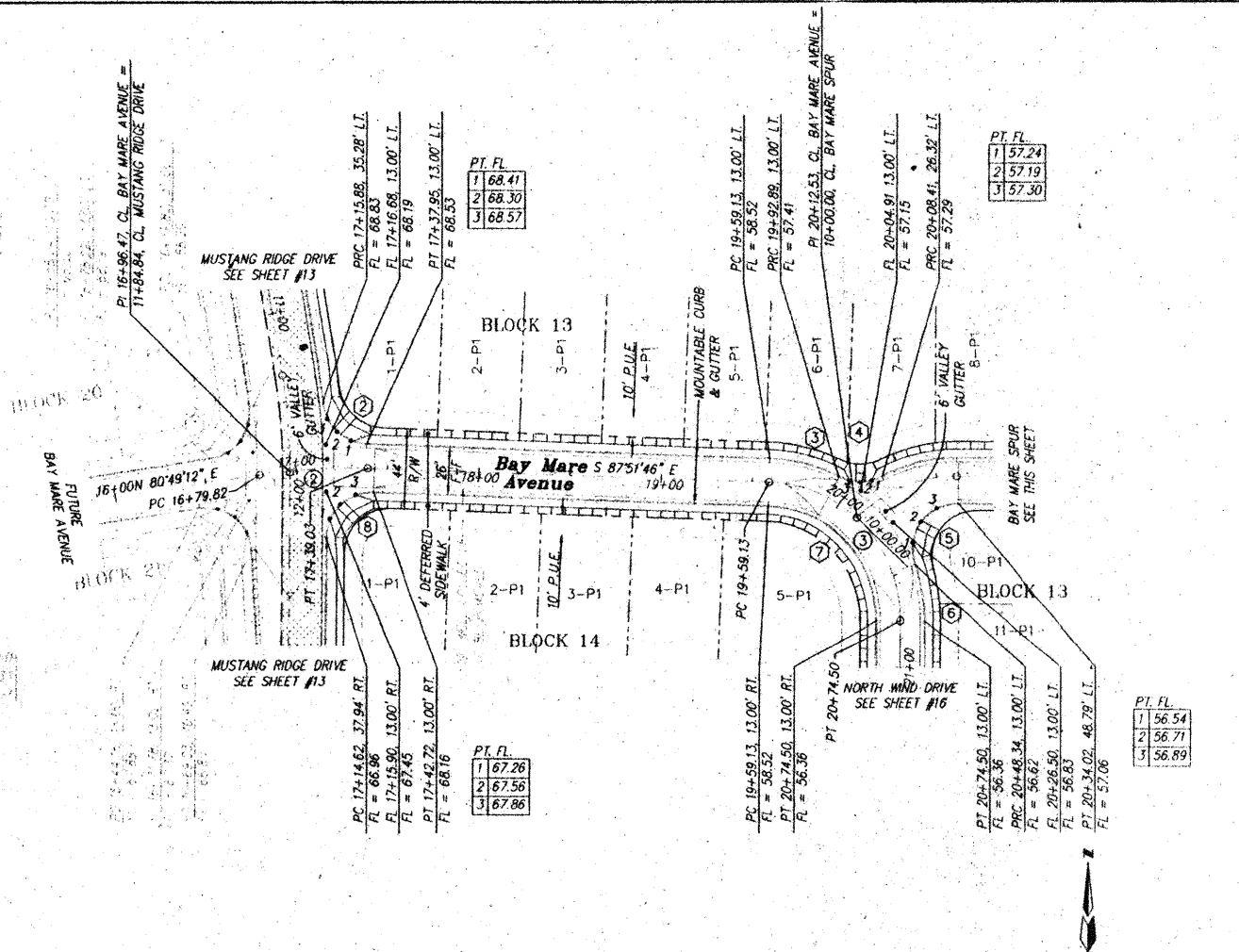
***EL RANCHO GRANDE I, UNIT 4A
PAVING IMPROVEMENTS***

[illegible]

AD124/UNIT4A/AG124-PF19/05-01-01 NHM DER

CITY PROJECT NO.	GEN. MAP NO.	SHEET
6456.84	M-9&N-9	14 3

SCANNED BY
PLANNING



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

BAY MARE AVENUE

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta = 370'47"$ $R = 300.00'$ $T = 8.33'$ $L = 15.65'$	② $\Delta = 870'15"$ $R = 300.00'$ $T = 21.34'$ $L = 42.61'$	③ $\Delta = 887'47"$ $R = 75.00'$ $T = 72.59'$ $L = 115.36'$
--	---	---

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 87'41'50"$ $R = 25.00'$ $T = 13.40'$ $L = 24.60'$	② $\Delta = 81'26'24"$ $R = 25.00'$ $T = 35.69'$ $L = 47.99'$	③ $\Delta = 25'47'26"$ $R = 88.00'$ $T = 20.15'$ $L = 30.69'$
④ $\Delta = 56'22'47"$ $R = 25.00'$ $T = 13.40'$ $L = 24.60'$	⑤ $\Delta = 109'58'59"$ $R = 25.00'$ $T = 35.69'$ $L = 47.99'$	⑥ $\Delta = 19'58'59"$ $R = 88.00'$ $T = 20.15'$ $L = 30.69'$
⑦ $\Delta = 887'47"$ $R = 62.00'$ $T = 60.01'$ $L = 95.37'$	⑧ $\Delta = 91'50'28"$ $R = 25.00'$ $T = 25.82'$ $L = 40.07'$	⑨ $\Delta = 95'42'42"$ $R = 25.00'$ $T = 27.63'$ $L = 41.76'$

BAY MARE SPUR

CURVE DATA - DESCRIBES CENTERLINE

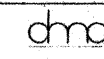
① $\Delta = 46'35'46"$ $R = 75.00'$ $T = 32.30'$ $L = 60.99'$
--

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 56'22'47"$ $R = 25.00'$ $T = 13.40'$ $L = 24.60'$	② $\Delta = 28'43'08"$ $R = 85.00'$ $T = 21.76'$ $L = 42.61'$	③ $\Delta = 109'58'59"$ $R = 25.00'$ $T = 35.69'$ $L = 47.99'$
--	--	---

LEGEND

- ARTERIAL PAVEMENT (7" AC)
GIBSON & UNSER®
THIS PROJECT
- ARTERIAL PAVEMENT (6" AC)
BLAKE
THIS PROJECT
- ENTRANCE PAVEMENT
(3 1/2" AC)
THIS PROJECT
- ENTRANCE PAVEMENT
(4" AC)
THIS PROJECT
- TEMPORARY 4" PAVEMENT
PER C.O.A. STD. DMC #2415



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4a
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

NO. DATE

DESIGN REVIEW COMMITTEE

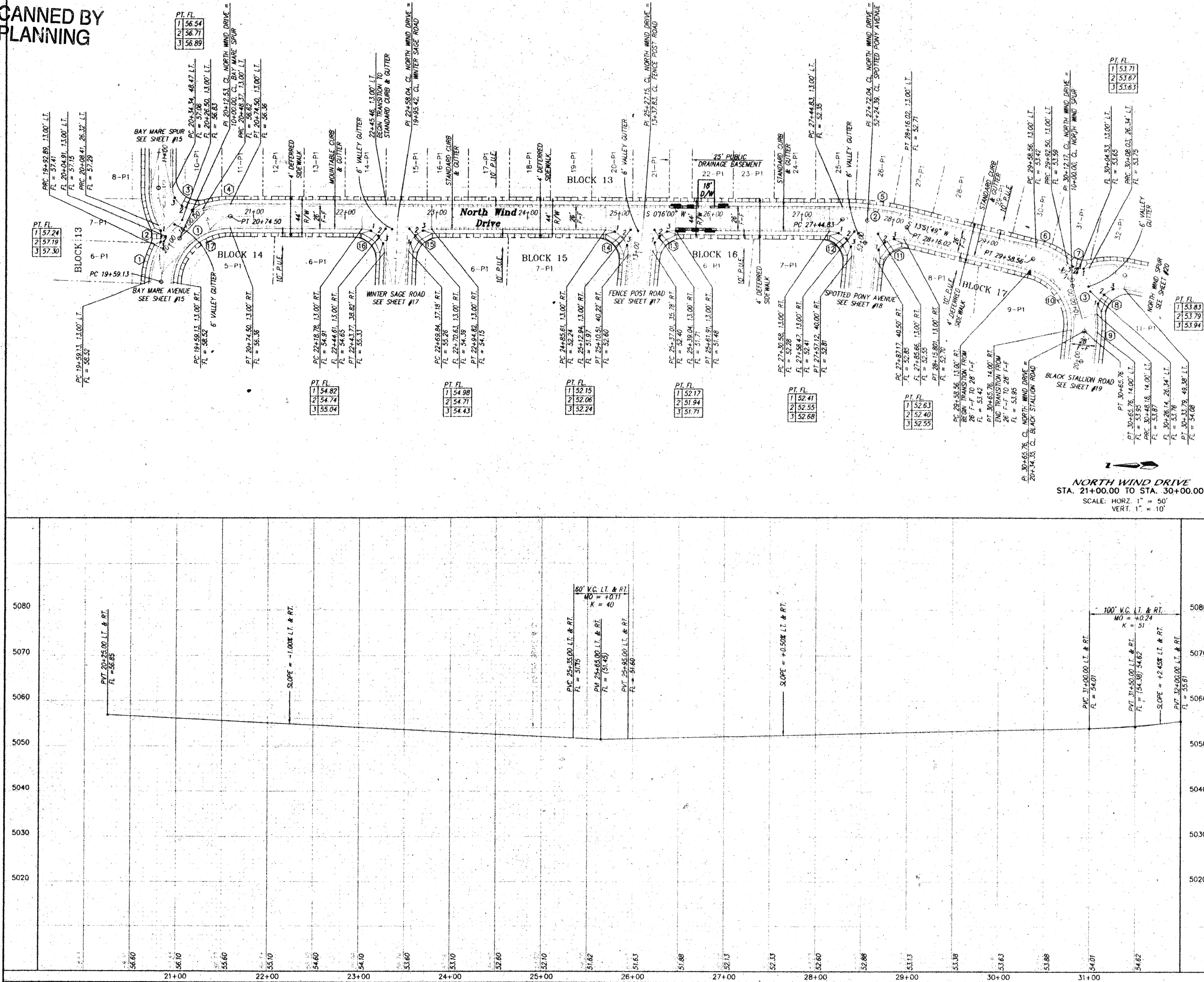
CITY ENGINEER APPROVAL

NO. DATE

CITY PROJECT NO.

ZONE MAP NO.

6456.84 M-95N-9 15 38



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA -- DESCRIBES CENTERLINE

① $\Delta = 88^{\circ}07'47''$ $R = 75.00'$ $T = 72.59'$ $L = 115.36'$ ② $\Delta = 13^{\circ}35'48''$ $R = 300.00'$ $T = 35.76'$ $L = 71.19'$ ③ $\Delta = 39^{\circ}43'45''$ $R = 75.00'$ $T = 27.10'$ $L = 52.01'$

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 25^{\circ}47'26''$
 $R = 88.00'$
 $I = 20.15'$
 $L = 39.61'$

② $\Delta = 56^{\circ}22'47''$
 $R = 25.00'$
 $I = 13.40'$
 $L = 24.60'$

③ $\Delta = 109^{\circ}58'59''$
 $R = 25.00'$
 $I = 35.69'$
 $L = 47.99'$

④ $\Delta = 19^{\circ}58'59''$
 $R = 88.00'$
 $I = 15.50'$
 $L = 30.69'$

⑤ $\Delta = 13^{\circ}35'49''$
 $R = 313.00'$
 $I = 37.37'$
 $L = 74.28'$

⑥ $\Delta = 25^{\circ}55'36''$
 $R = 88.00'$
 $I = 20.26'$
 $L = 39.82'$

⑦ $\Delta = 56^{\circ}25'29''$
 $R = 25.00'$
 $I = 13.41'$
 $L = 24.62'$

⑧ $\Delta = 108^{\circ}56'22''$
 $R = 25.00'$
 $I = 35.01'$
 $L = 47.53'$

⑨ $\Delta = 13^{\circ}27'49''$
 $R = 89.00'$
 $I = 10.51'$
 $L = 20.91'$

⑩ $\Delta = 82^{\circ}50'17''$
 $R = 61.00'$
 $I = 53.81'$
 $L = 88.19'$

⑪ $\Delta = 98^{\circ}27'56''$
 $R = 25.00'$
 $I = 29.00'$
 $L = 42.96'$

⑫ $\Delta = 95^{\circ}05'18''$
 $R = 25.00'$
 $I = 27.33'$
 $L = 41.49'$

⑬ $\Delta = 84^{\circ}54'42''$
 $R = 25.00'$
 $I = 22.87'$
 $L = 37.05'$

⑭ $\Delta = 95^{\circ}05'18''$
 $R = 25.00'$
 $I = 27.33'$
 $L = 41.49'$

⑮ $\Delta = 88^{\circ}07'47''$
 $R = 25.00'$
 $I = 24.20'$
 $L = 38.45'$

⑯ $\Delta = 91^{\circ}52'13''$
 $R = 25.00'$
 $I = 25.83'$
 $L = 40.09'$

⑰ $\Delta = 88^{\circ}07'47''$
 $R = 62.00'$
 $I = 60.01'$
 $L = 95.37'$

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE P.O.W. OF A PLAINS ELECTRIC CO-OP TR

MISSION LINE TO REACH STATION FROM INTERSECTION OF CENTINELA AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION

WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG
SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI.

PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
 $X = 354,899.45$, $Y = 1,471,822.67$, $G-G = 0.99967921$ (NAD 1983)

ACS MON - M9, SW COR 98TH & SAGE, NAUD 29. EL = 5147.

JDH	02/01
NHM	02/01
DMC	02/01

dh

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4A
PAVING IMPROVEMENTS

DE-SIGN REVIEW LAMBERT

CITY ENGINEER APPROVAL:

MC LOAN JR. MC TAY JR.

SECRET

[illegible]

May 2011

Figure 1. A schematic diagram of the experimental setup. The subject is seated in a chair, viewing a screen. The screen displays a target (a small circle) and a starting point (a larger circle). The subject's hand is positioned at the starting point. The distance between the starting point and the target is labeled as d . The angle between the horizontal line and the line connecting the starting point to the target is labeled as θ . The subject's hand is positioned at the starting point, and the target is at a distance d from the starting point. The angle between the horizontal line and the line connecting the starting point to the target is θ .

2001 10

263

Figure 1 is a line graph showing the relationship between the logarithm of the number of species ($\log S$) and the logarithm of the number of individuals ($\log N$). The x-axis is labeled $\log N$ and ranges from 0 to 10. The y-axis is labeled $\log S$ and ranges from 0 to 10. A solid line represents the theoretical relationship, and a dashed line represents the observed relationship. The observed relationship is slightly below the theoretical one at higher values of $\log N$.

1. *Chrysomelidae*

[illegible]

~~DESIGN
REVIEW COMMITTEE~~

CITY PROJECT NO. _____

7044 M

DATE _____

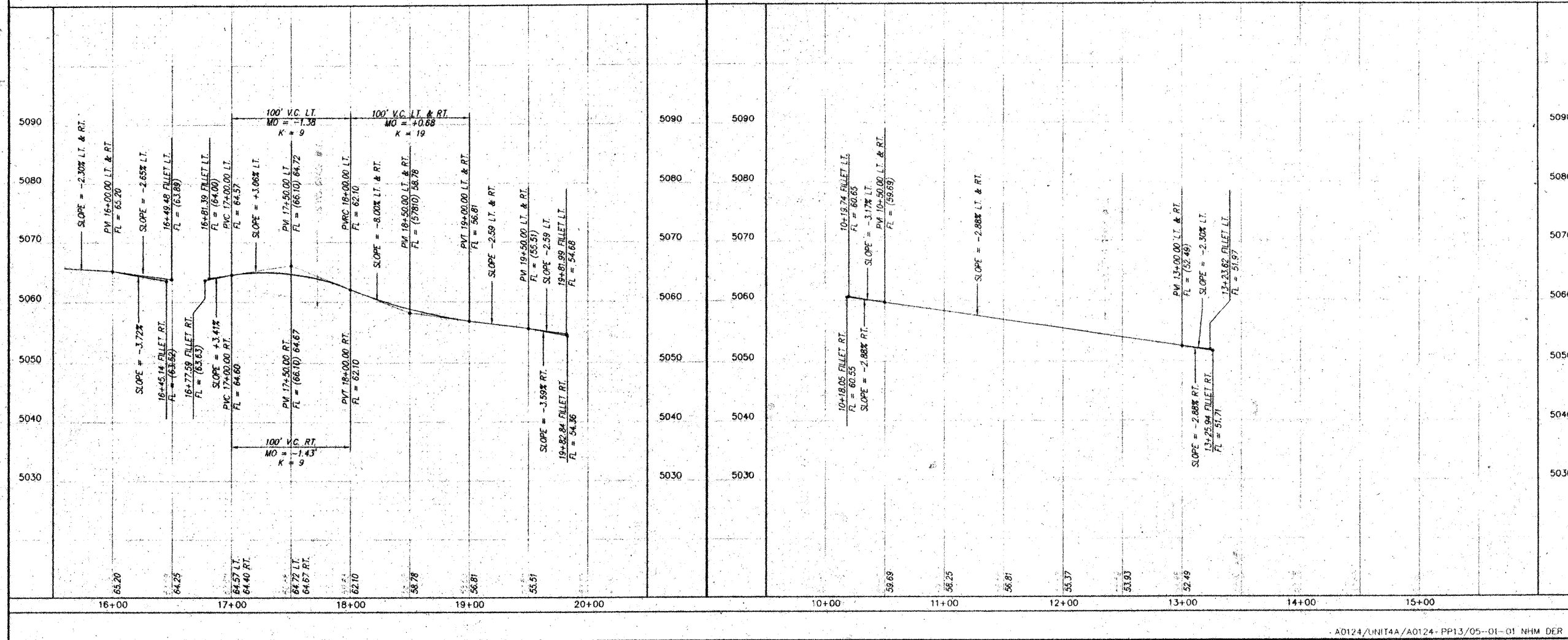
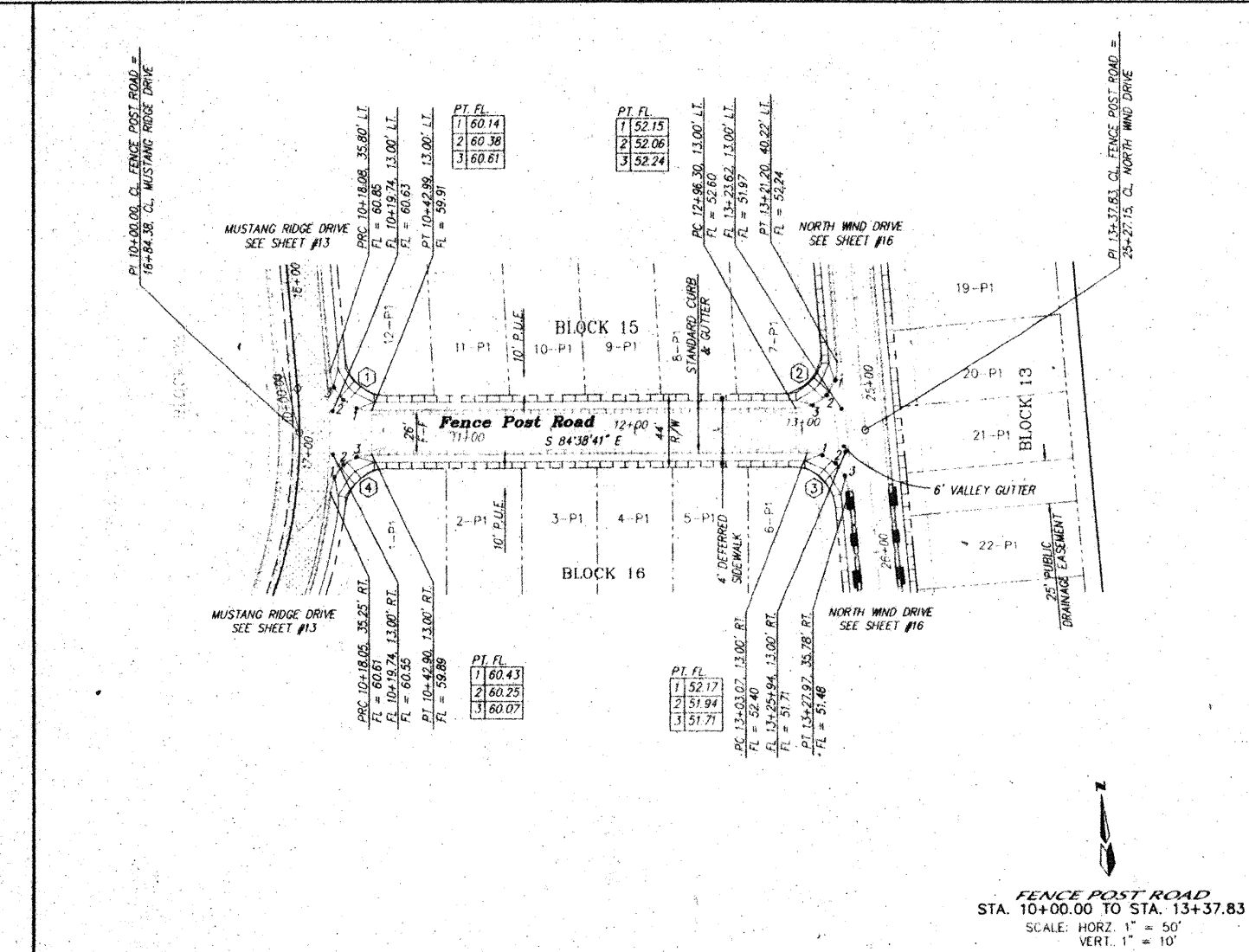
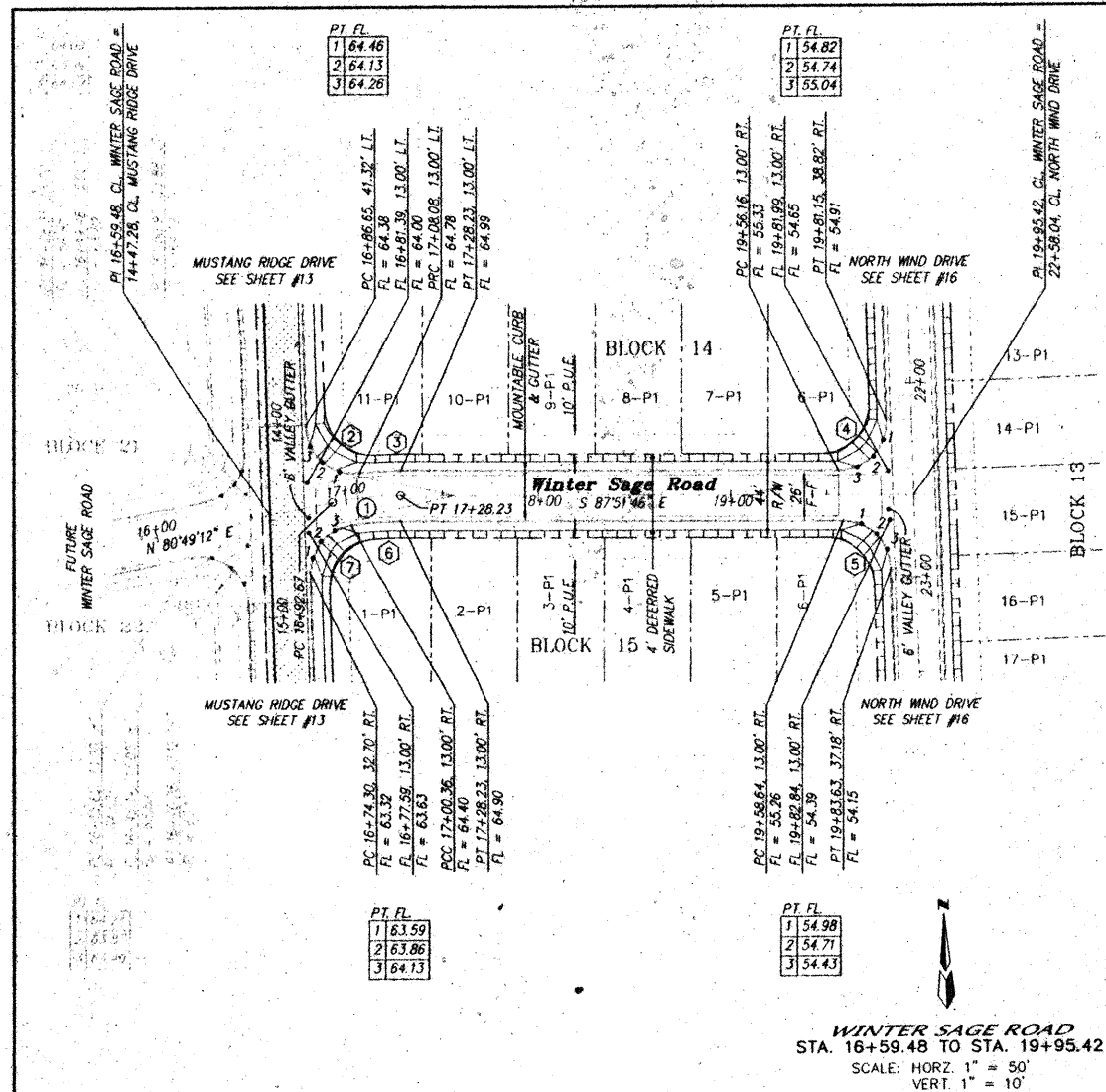
AC124/UNIT4A/AC124-PP7/05-01-01 NHM DER

6456.84

M-9&N-9

16 38

UNANNOUNCED BY PLANNING



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

WINTER SAGE ROAD

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta = 1179'02''$
 $R = 180.00'$
 $T = 17.84'$
 $L = 35.55'$

CURVE DATA - DESCRIBES FACE OF NEW CURB

② $\Delta = 94'34'15''$
 $R = 25.00'$
 $T = 27.08'$
 $L = 41.26'$

③ $\Delta = 624'43''$
 $R = 193.00'$
 $T = 10.81'$
 $L = 21.60'$

④ $\Delta = 9132'13''$
 $R = 25.00'$
 $T = 25.83'$
 $L = 40.09'$

⑤ $\Delta = 8807'47''$
 $R = 25.00'$
 $T = 24.20'$
 $L = 38.45'$

⑥ $\Delta = 852'07''$
 $R = 167.00'$
 $T = 12.95'$
 $L = 25.85'$

⑦ $\Delta = 8258'21''$
 $R = 25.00'$
 $T = 22.11'$
 $L = 36.20'$

FENCE POST ROAD

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 8456'27''$
 $R = 25.00'$
 $T = 22.88'$
 $L = 37.06'$

② $\Delta = 9505'18''$
 $R = 25.00'$
 $T = 27.33'$
 $L = 41.49'$

③ $\Delta = 8454'42''$
 $R = 25.00'$
 $T = 22.87'$
 $L = 37.05'$

④ $\Delta = 8340'30''$
 $R = 25.00'$
 $T = 22.38'$
 $L = 36.51'$

LEGEND

ARTERIAL PAVEMENT (7" AC)
GIBSON & UNSER
THIS PROJECT

ARTERIAL PAVEMENT (6" AC)
BLAKE
THIS PROJECT

ENTRANCE PAVEMENT
(3 1/2" AC)
THIS PROJECT

ENTRANCE PAVEMENT
(4" AC)
THIS PROJECT

TEMPORARY 4" PAVEMENT
PER C.O.A. STD. DWG #2415

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4A
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE
MAY 1 2008

CITY ENGINEER APPROVAL
MAY 7

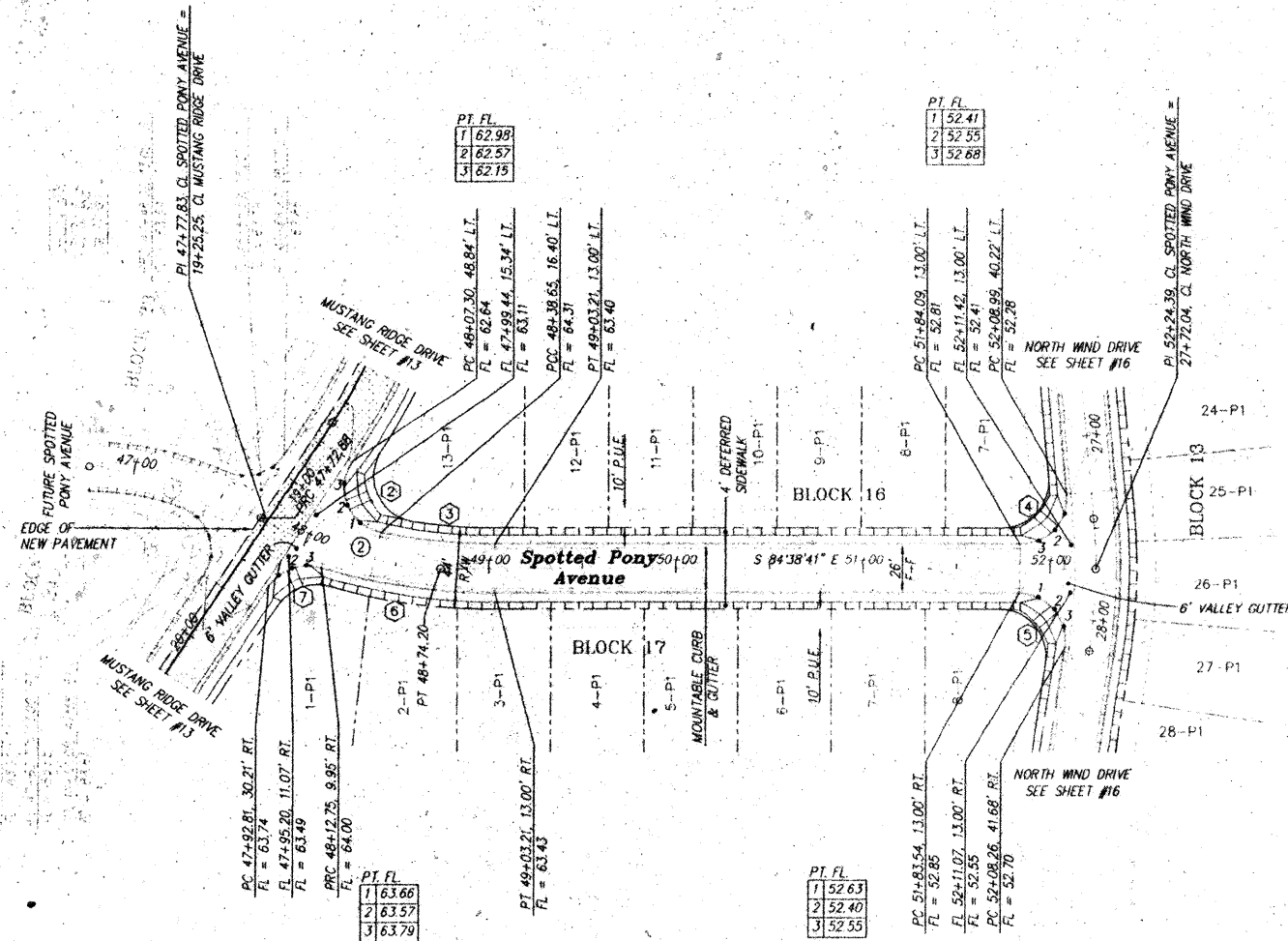
DESIGN REVIEW COMMITTEE
MAY 1 2008

CITY PROJECT NO. **6456.84**

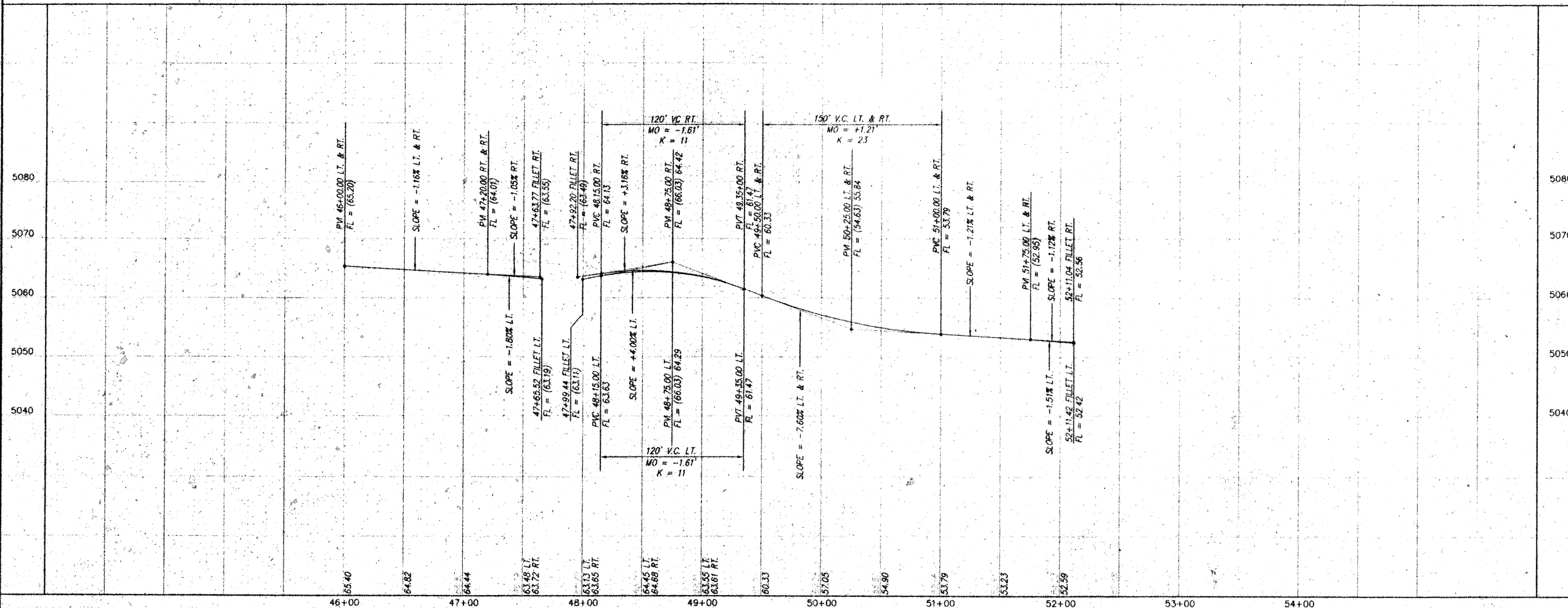
ZONE MAP NO. **M-95N-9**

SHEET **17** OF **38**

SCANNED BY
PLANNING



SPOTTED PONY AVENUE
STA. 47+00.00 TO STA. 52+24.39
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES CENTERLINE

② $\Delta = 32'15.06"$
 $R = 180.00'$
 $T = 52.04'$
 $L = 101.32'$

CURVE DATA - DESCRIBES FACE OF NEW CURB

② $\Delta = 111'10.43"$ ③ $\Delta = 127'7.32"$
 $R = 25.00'$ $R = 287.00'$
 $T = 36.50'$ $T = 30.91'$
 $L = 48.51'$ $L = 61.58'$

④ $\Delta = 95'05.18"$ ⑤ $\Delta = 98'27.56"$ ⑥ $\Delta = 171'2.34"$
 $R = 25.00'$ $R = 28.00'$ $R = 313.00'$
 $T = 27.33'$ $T = 28.00'$ $T = 47.36'$
 $L = 41.49'$ $L = 42.96'$ $L = 94.01'$

⑦ $\Delta = 73'44.14"$
 $R = 25.00'$
 $T = 18.75'$
 $L = 32.17'$

LEGEND

ARTERIAL PAVEMENT (7" AC)
GIBSON & UNSER
THIS PROJECT
ARTERIAL PAVEMENT (6" AC)
BLAKE
THIS PROJECT
ENTRANCE PAVEMENT
(3 1/2" AC)
THIS PROJECT
ENTRANCE PAVEMENT
(4" AC)
THIS PROJECT
TEMPORARY 4" PAVEMENT
PER C.O.A. STD. DWG #2415

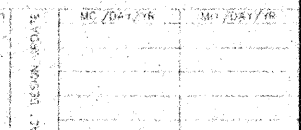
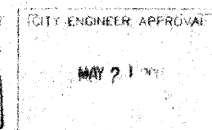
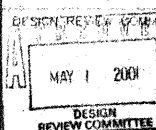


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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4A
PAVING IMPROVEMENTS



CITY PROJECT NO.

ZONE MAP NO.

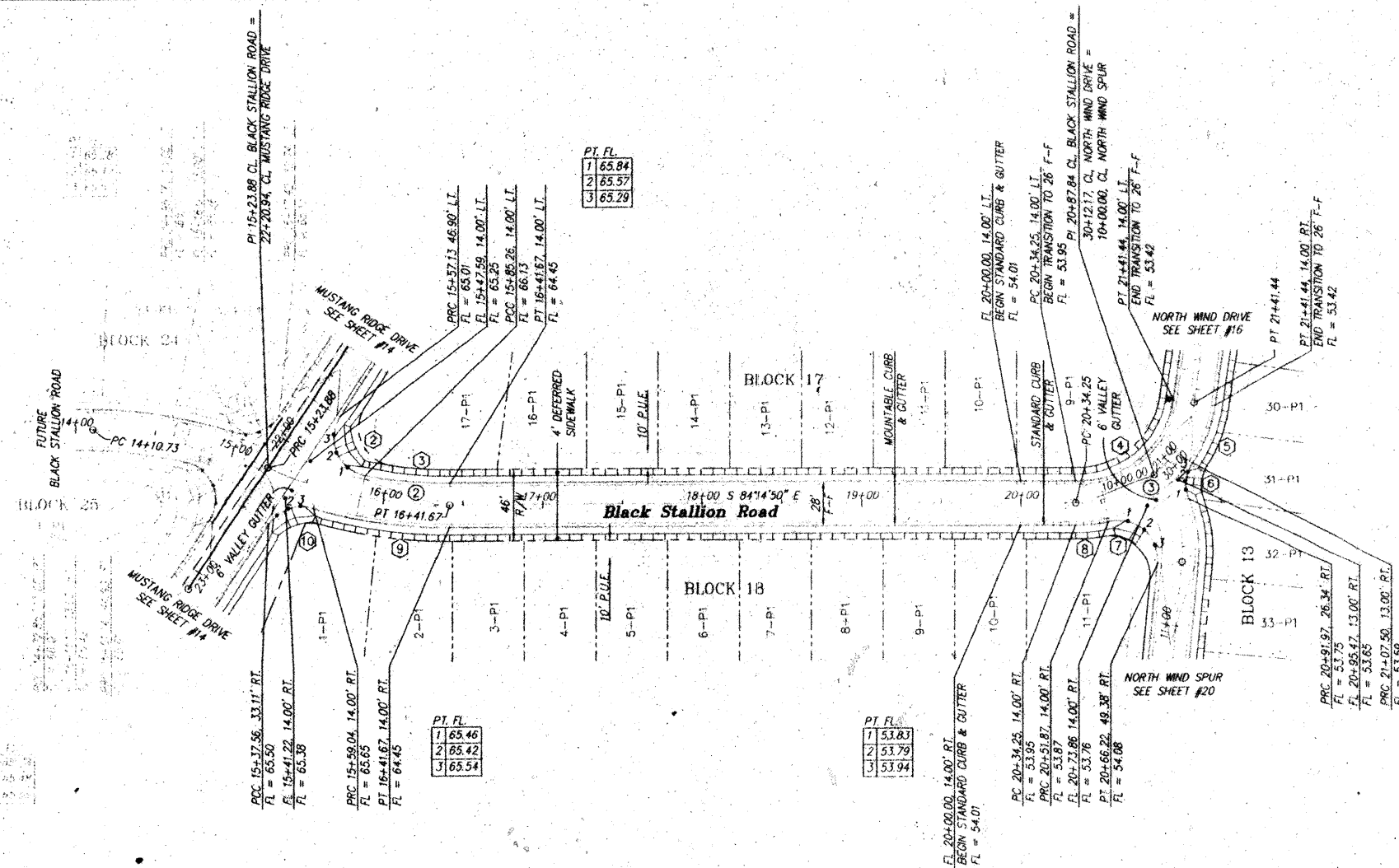
SHEET

A0124/UNIT4A/A0124-PP12/05-01-01 NHM DER

6456.84

M-94N-9

18 38



BLACK STALLION ROAD
STA. 14+50.00 TO STA. 21+00.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta = 23^{\circ}34'34''$ $R = 275.00'$ $T = 57.39'$ $L = 113.16'$	② $\Delta = 197^{\circ}47'$ $R = 5.00'$ $T = 0.85'$ $L = 1.68'$	③ $\Delta = 81^{\circ}53'21''$ $R = 75.00'$ $T = 65.07'$ $L = 107.19'$
--	--	---

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 75^{\circ}36'21''$ $R = 25.00'$ $T = 19.39'$ $L = 32.99'$	② $\Delta = 111^{\circ}19'17''$ $R = 25.00'$ $T = 36.59'$ $L = 48.57'$	③ $\Delta = 11^{\circ}45'13''$ $R = 261.00'$ $T = 26.86'$ $L = 53.54'$
④ $\Delta = 82^{\circ}50'17''$ $R = 61.00'$ $T = 53.81'$ $L = 88.19'$	⑤ $\Delta = 25^{\circ}55'36''$ $R = 88.00'$ $T = 20.26'$ $L = 39.82'$	⑥ $\Delta = 56^{\circ}25'29''$ $R = 25.00'$ $T = 13.41'$ $L = 24.62'$
⑦ $\Delta = 108^{\circ}56'22''$ $R = 25.00'$ $T = 35.01'$ $L = 47.53'$	⑧ $\Delta = 132^{\circ}7'49''$ $R = 89.00'$ $T = 10.51'$ $L = 20.91'$	⑨ $\Delta = 177^{\circ}56''$ $R = 289.00'$ $T = 43.75'$ $L = 86.83'$
⑩ $\Delta = 74^{\circ}08'26''$ $R = 25.00'$ $T = 18.89'$ $L = 32.35'$	⑪ $\Delta = 109^{\circ}09'58''$ $R = 25.00'$ $T = 35.16'$ $L = 47.63'$	

LEGEND

- ARTERIAL PAVEMENT (7" AC)
GIBSON & UNSER
THIS PROJECT
- ARTERIAL PAVEMENT (6" AC)
BLAKE
THIS PROJECT
- ENTRANCE PAVEMENT
(3 1/2" AC)
THIS PROJECT
- ENTRANCE PAVEMENT
(4" AC)
THIS PROJECT
- TEMPORARY 4" PAVEMENT
PER C.O.A. STD. DWG #2415

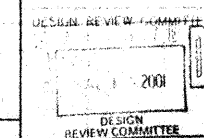


MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4A
PAVING IMPROVEMENTS

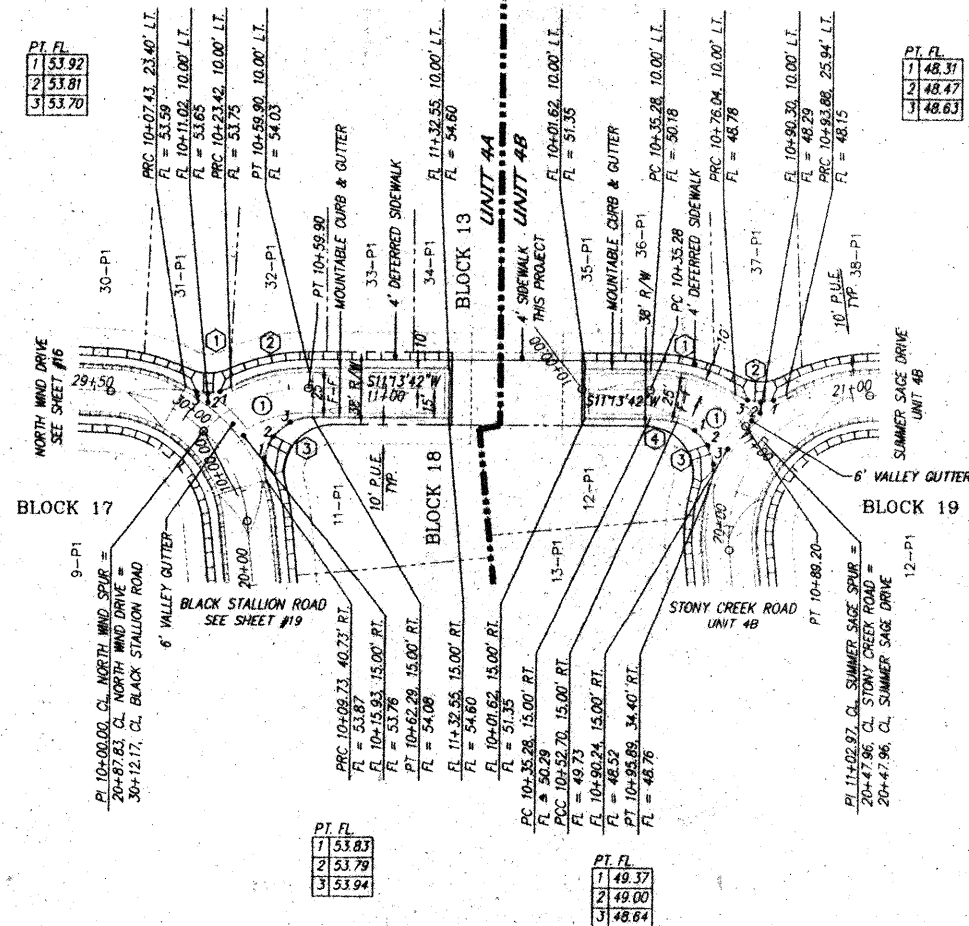


CITY ENGINEER APPROVAL
DATE: MAY 21, 2001

CITY PROJECT NO. 6456.84

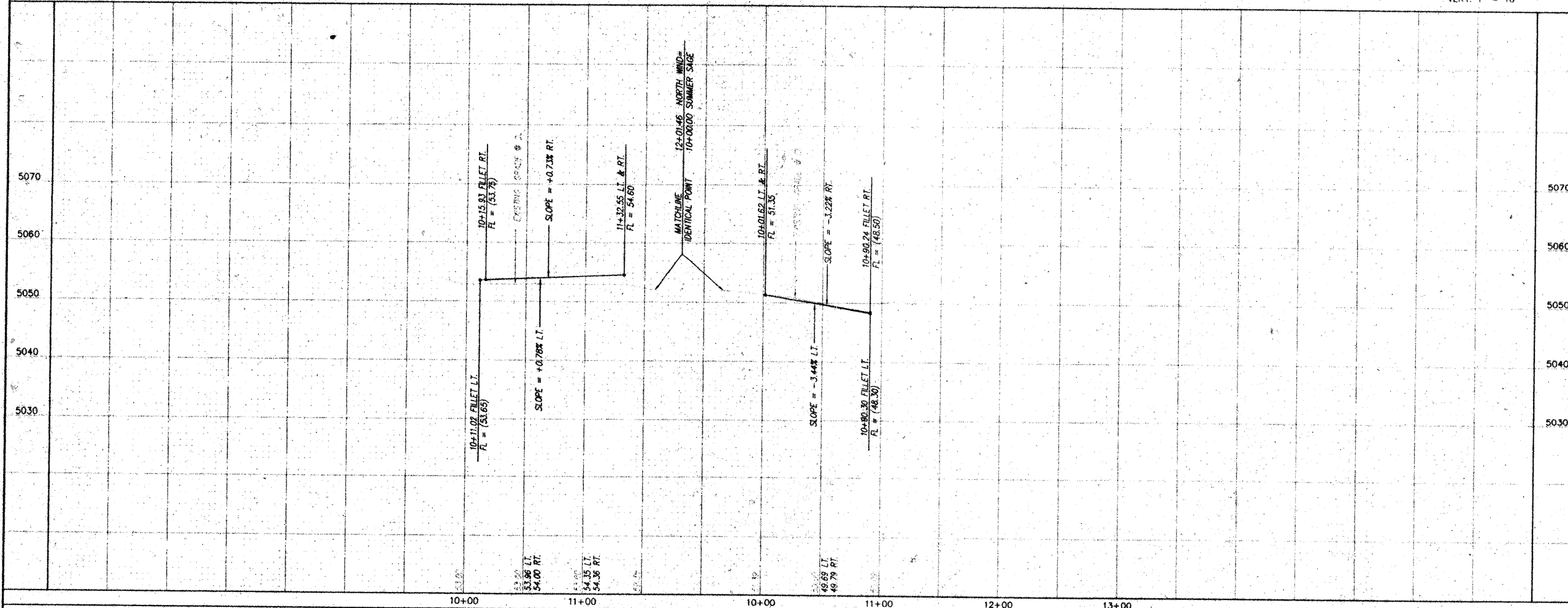
DATE: MAY 21, 2001

SHEET 19 OF 38



NORTH WIND SPUR
STA. 10+00.00 TO STA. 11+32.55
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

SUMMER SAGE SPUR
STA. 10+00.00 TO STA. 11+02.97
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

NORTH WIND SPUR

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta = 45^\circ 45' 28''$
 $R = 75.00'$
 $T = 31.65'$
 $L = 59.90'$

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 56^\circ 25' 29''$ ② $\Delta = 27^\circ 51' 47''$ ③ $\Delta = 108^\circ 56' 22''$
 $R = 25.00'$ $R = 85.00'$ $R = 25.00'$
 $T = 13.41'$ $T = 21.08'$ $T = 35.01'$
 $L = 24.62'$ $L = 41.34'$ $L = 47.53'$

SUMMER SAGE SPUR

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta = 41^\circ 11' 36''$
 $R = 75.00'$
 $T = 28.19'$
 $L = 53.92'$

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 31^\circ 08' 13''$ ② $\Delta = 62^\circ 47' 57''$ ③ $\Delta = 95^\circ 08' 46''$
 $R = 85.00'$ $R = 25.00'$ $R = 25.00'$
 $T = 23.68'$ $T = 15.26'$ $T = 27.35'$
 $L = 46.19'$ $L = 27.40'$ $L = 41.52'$

④ $\Delta = 13^\circ 18' 32''$
 $R = 60.00'$
 $T = 7.00'$
 $L = 13.94'$

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I UNIT 4A
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE
MAY 1 2001

CITY ENGINEER APPROVAL
MAY 21 2001

MO./DAY/YR
MO./DAY/YR

CITY PROJECT NO. **6456.84** ZONE MAP NO. **M-95N-9** SHEET **20** OF **38**



NOTES

1. 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.

LEGEND

- NEW MOUNTABLE CURB AND GUTTER
- NEW STANDARD CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
- EXISTING CONCRETE/SIDEWALK
- EXISTING WALL
- PROPOSED STORM DRAIN INLET
- EXISTING STORM DRAIN INLET
- LOT LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- ADDRESS
- PROPOSED STREET LIGHT

SCALE

1" = 100'

DESIGNED BY JWH
DRAWN BY AWM
CHECKED BY DMG

DATE 01/01
DATE 01/01
DATE 01/01

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4A
MASTER UTILITY PLAN

APPROVED

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

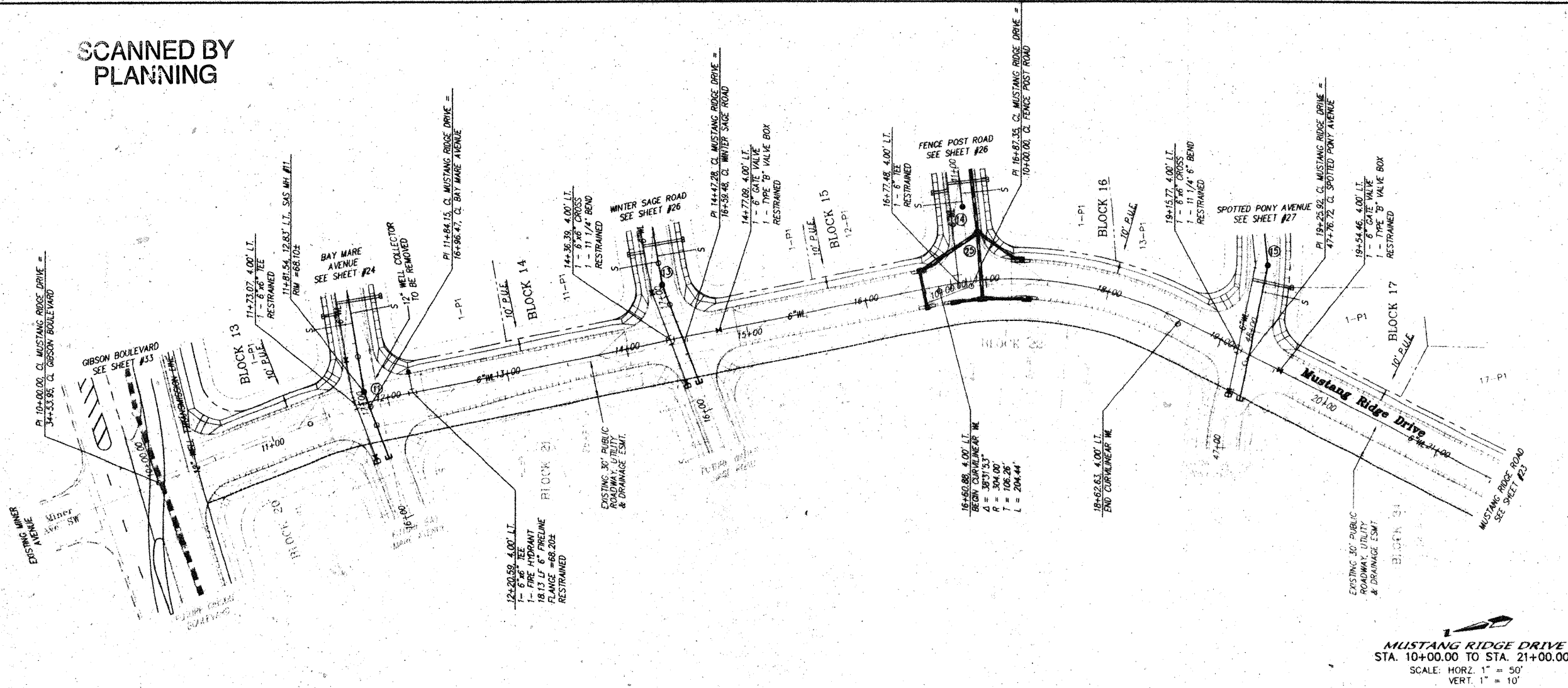
DATE MAY 1 2001

DATE MAY 2 2001

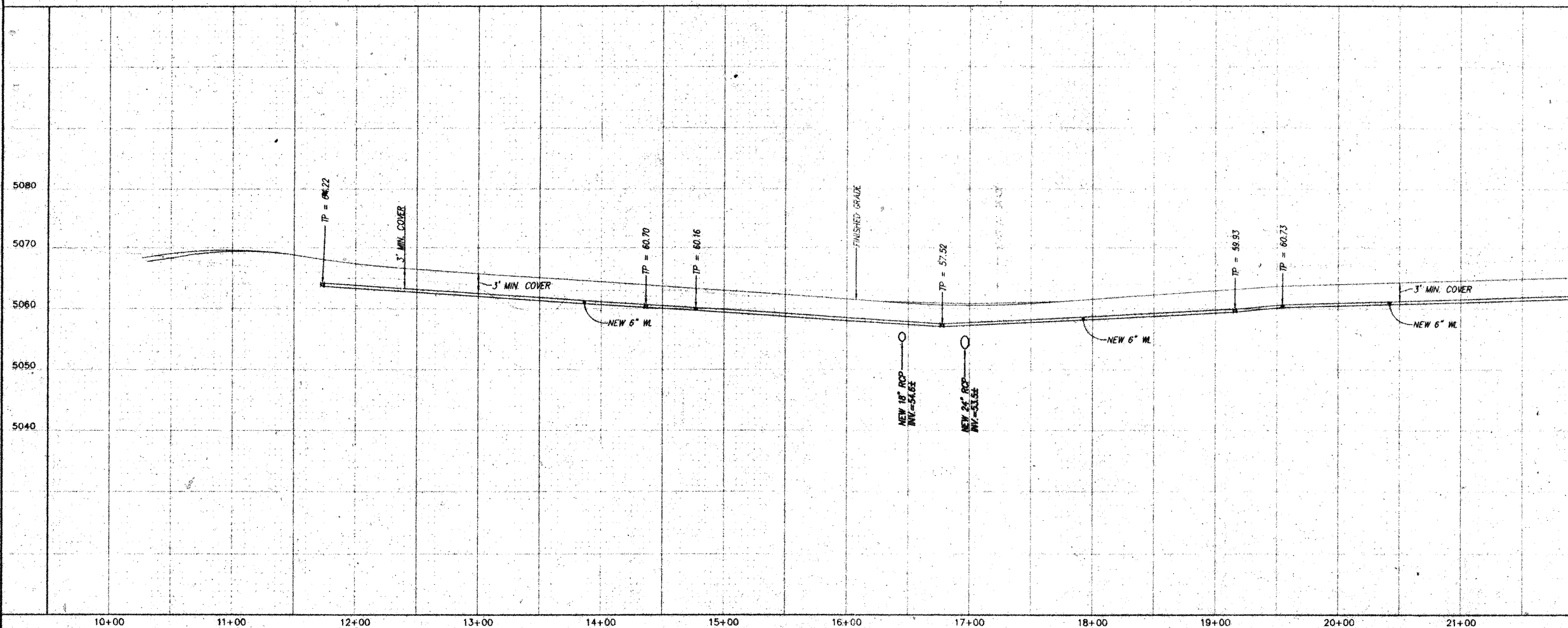
CITY PROJECT NO. 6456.84
ZONE MAP NO. M-9 & N-9
SHEET 21
OF 38

P:\DATA\CONCRETE\A0124\UNIT4A\A0124MUTL.dwg Tue May 15 15:50:23 2001 By: nmm

SCANNED BY
PLANNING



MUSTANG RIDGE DRIVE
STA. 10+00.00 TO STA. 21+00.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.

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'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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
12"x12"x12"	18'	3'
6"x6"x6"	10'	2'

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS

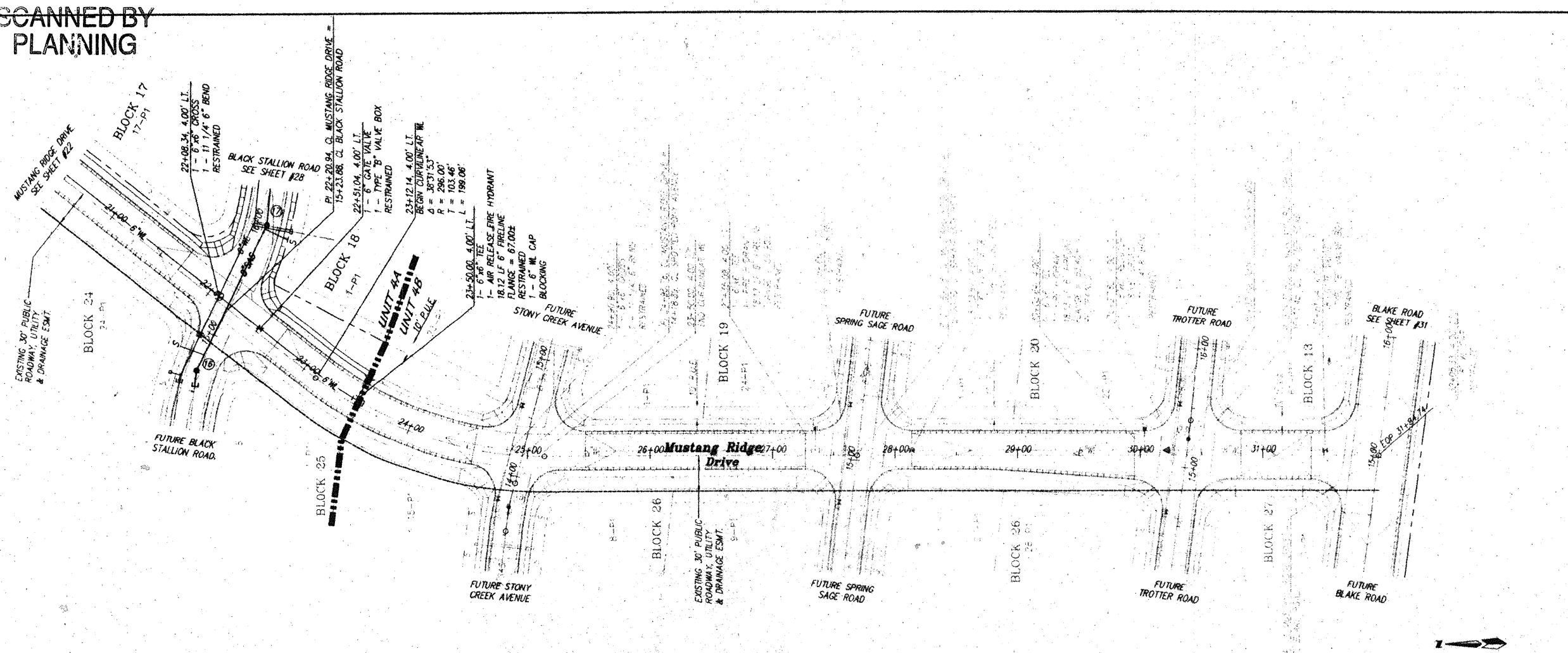
DESIGN REVIEW COMMITTEE
MAY 1 2001

CITY ENGINEER APPROVAL
MAY 2 2001

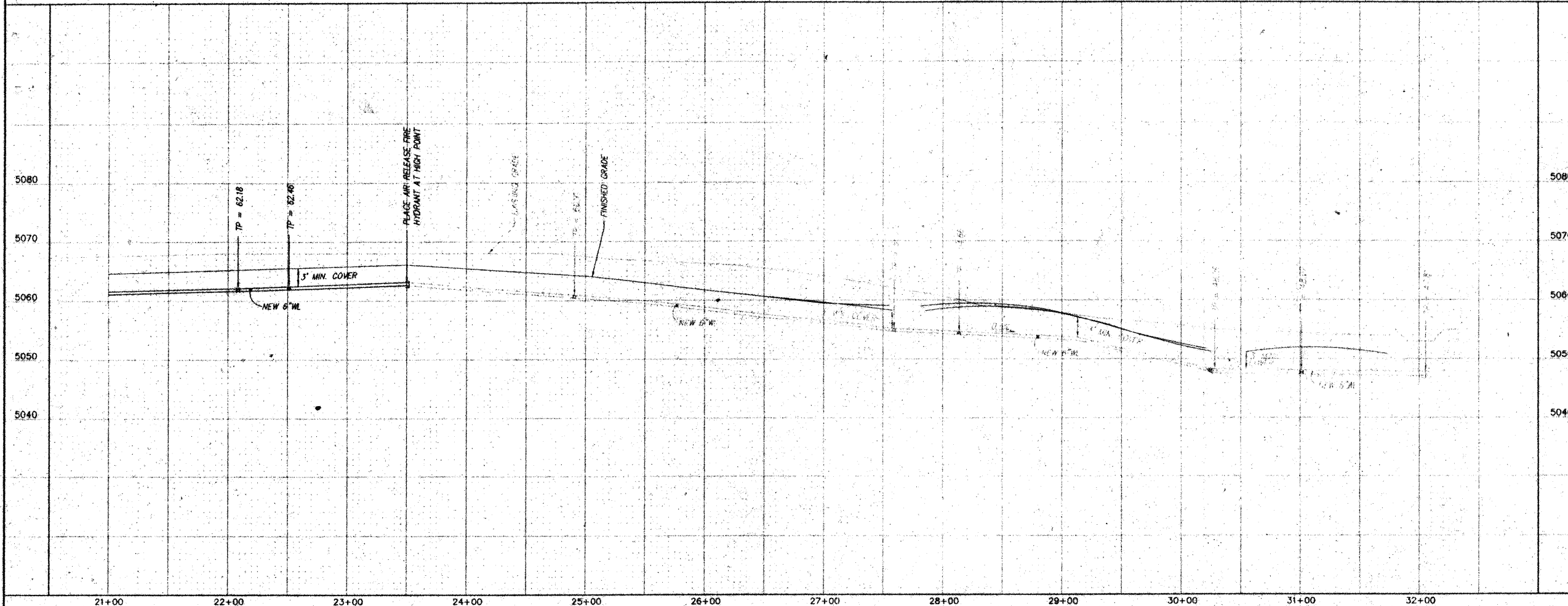
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NO. 7047296
LAST DESIGN UPDATE

CITY PROJECT NO. **6456.84** ZONE MAP NO. **M-9&N-9** SHEET **22** OF **38**

A0124/UNIT4A/A0124-UP18/05-15-01/ DER NHM



MUSTANG RIDGE DRIVE
STA. 21+00.00 TO STA. 31+94.74
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

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'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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.

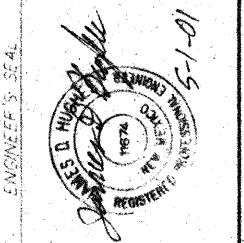
RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
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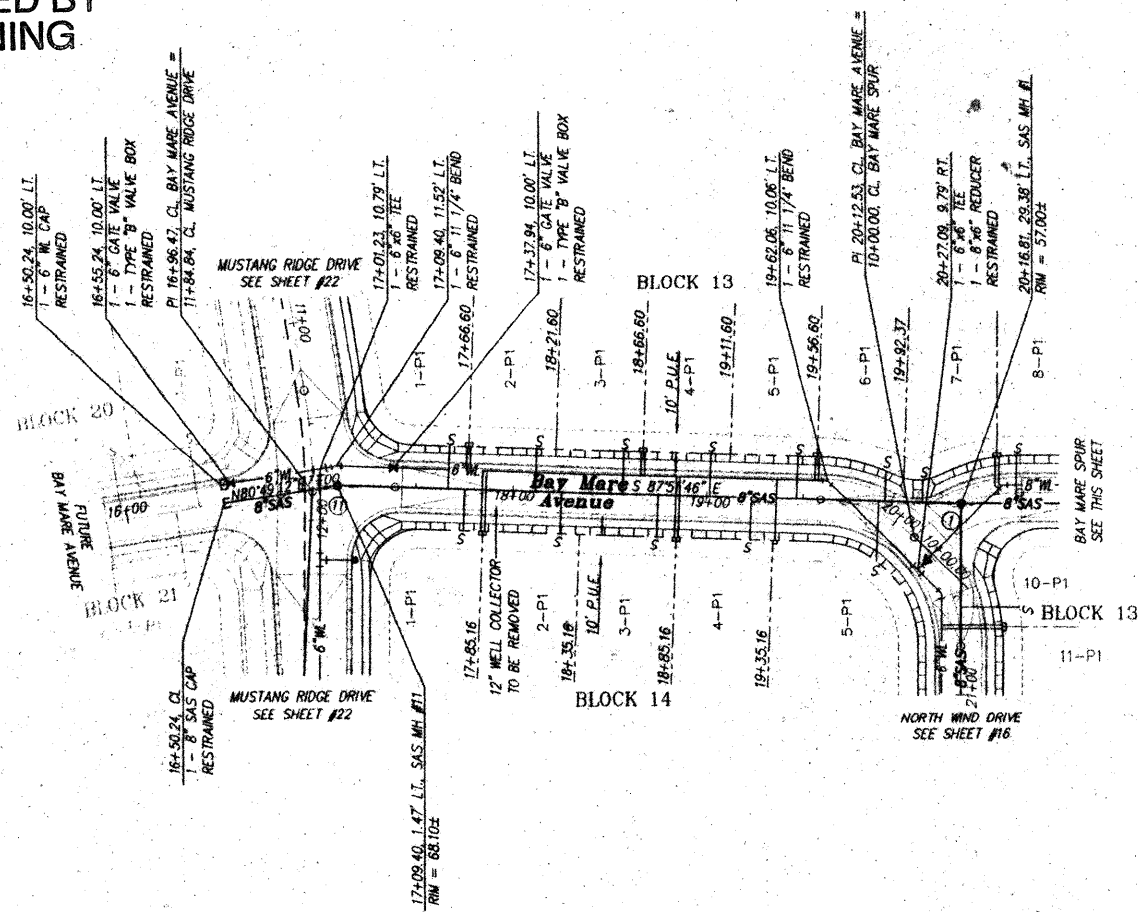
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO. DATE/HR	MO. DATE/HR
MAY 1 2001	MAY 2 2001		
DESIGN REVIEW COMMITTEE	CITY	LAST DESIGN DATE	

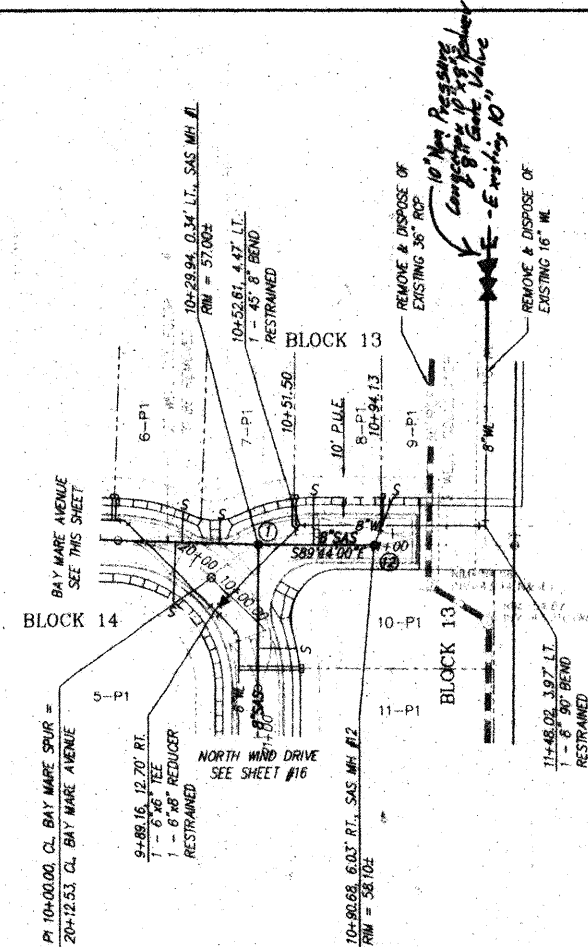
CITY PROJECT NO. **6456.84** ZONE MAP NO. **M-98N-9** SHEET **23** OF **38**



NO.	DATE	REVISIONS	BY
1	03/01	DESIGN	JDM
2	03/01	DATE	NHM
3	03/01	DATE	DMG



BAY MARE AVENUE
STA. 16+98.47 TO STA. 20+50.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



BAY MARE SPUR
STA. 10+00.00 TO STA. 11+12.43
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

BAY MARE AVENUE SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
13	1-P1	17+66.60	63.24	22.00'
13	2-P1	18+11.60	62.13	22.00'
13	3-P1	18+56.60	58.99	22.00'
13	4-P1	19+01.60	55.66	22.00'
13	5-P1	19+46.60	53.26	22.00'
13	6-P1	19+85.26	51.76	16.75'
14	1-P1	17+65.16	63.12	22.00'
14	2-P1	18+25.16	61.38	22.00'
14	3-P1	18+75.16	57.56	22.00'
14	4-P1	19+21.16	54.31	22.00'
14	5-P1	20+04.10	51.76	34.10'

BAY MARE SPUR SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
13	7-P1	10+19.77	51.80	12.30'
13	8-P1	10+59.89	52.20	25.01'
13	9-P1	11+00.39	52.61	26.81'

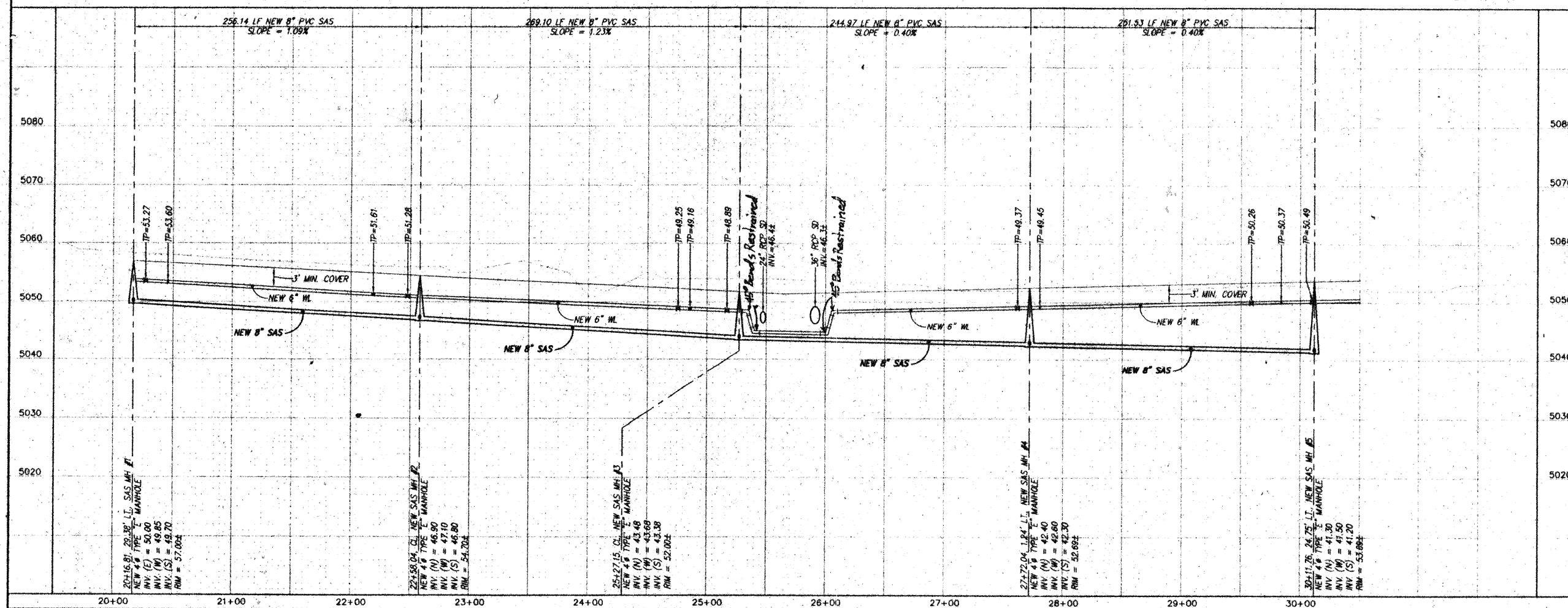
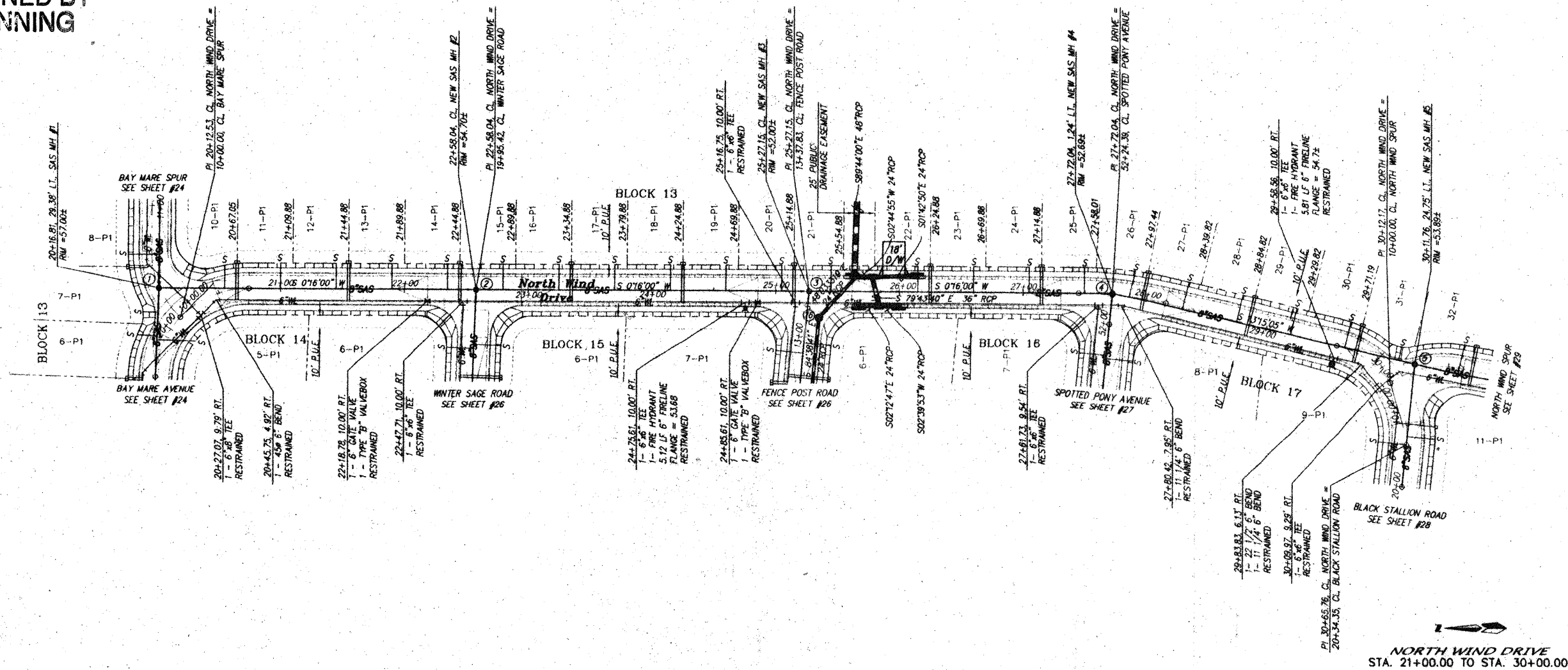
RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	-	-	46'
8"	22'	9'	4'	2'	60'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR	MO./DAY/YR
DESIGNED BY: JDN	DESIGNED BY: JDN	DATE: 02/01	DATE: 02/01
DRAWN BY: NHM	DRAWN BY: NHM	DATE: 02/01	DATE: 02/01
CHECKED BY: DMG	CHECKED BY: DMG	DATE: 02/01	DATE: 02/01



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. VERTICAL BENDS MUST HAVE JOINTS RESTRAINED.

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PL	LENGTH AT PL
13	10- P1	20+55.31	51.00	20.00'
13	17- P1	20+59.88	50.55	22.00'
13	12- P1	21+1.88	50.10	22.00'
13	21- P1	21+79.65	49.60	22.00'
13	14- P1	22+34.68	49.20	22.00'
13	15- P1	22+79.88	48.75	22.00'
13	16- P1	23+24.88	48.30	22.00'
13	17- P1	23+69.88	47.85	22.00'
13	18- P1	24+14.88	47.40	22.00'
13	19- P1	24+59.88	47.30	22.00'
13	20- P1	25+04.88	46.84	22.00'
13	21- P1	25+49.88	46.40	22.00'
13	22- P1	26+14.88	46.60	22.00'
13	23- P1	26+59.88	46.80	22.00'
13	24- P1	27+04.88	47.0	22.00'
13	25- P1	27+49.41	47.25	22.00'
13	26- P1	27+94.55	47.42	22.41'
13	27- P1	28+39.10	47.65	22.13'
13	28- P1	28+75.16	47.87	22.89'
13	29- P1	29+20.16	48.10	22.41'
13	30- P1	29+65.12	48.33	21.72'

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	FIELD NOTES	DATE	BY	CONTRACTOR	DATE
	STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE. IN THE R.O.W. OF A PLAINS ELECTRIC CO.-OP TRANSMISSION LINE, TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW MISTA BLVD., THEN SOUTHEAST ALONG SNOW MISTA AND CO.-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO Pylon NUMBERED "32". STATION IS JUST EAST OF THIS POINT.				
	X = 354,898.45 Y = 1,471,822.67 G-G = 0.998672 (NAID 1927)				
	ACS MON "1" - MBT - SW COR. 98TH & SAGE, NAUD 29. EL = 5147.81				

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'
10"	—	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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.

PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90806
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(505) 828-2200. FAX (505) 797-9539

 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS**

DESIGN REVIEW COMMITTEE

APPROVED

MAY 1 2000

DESIGN REVIEW COMMITTEE

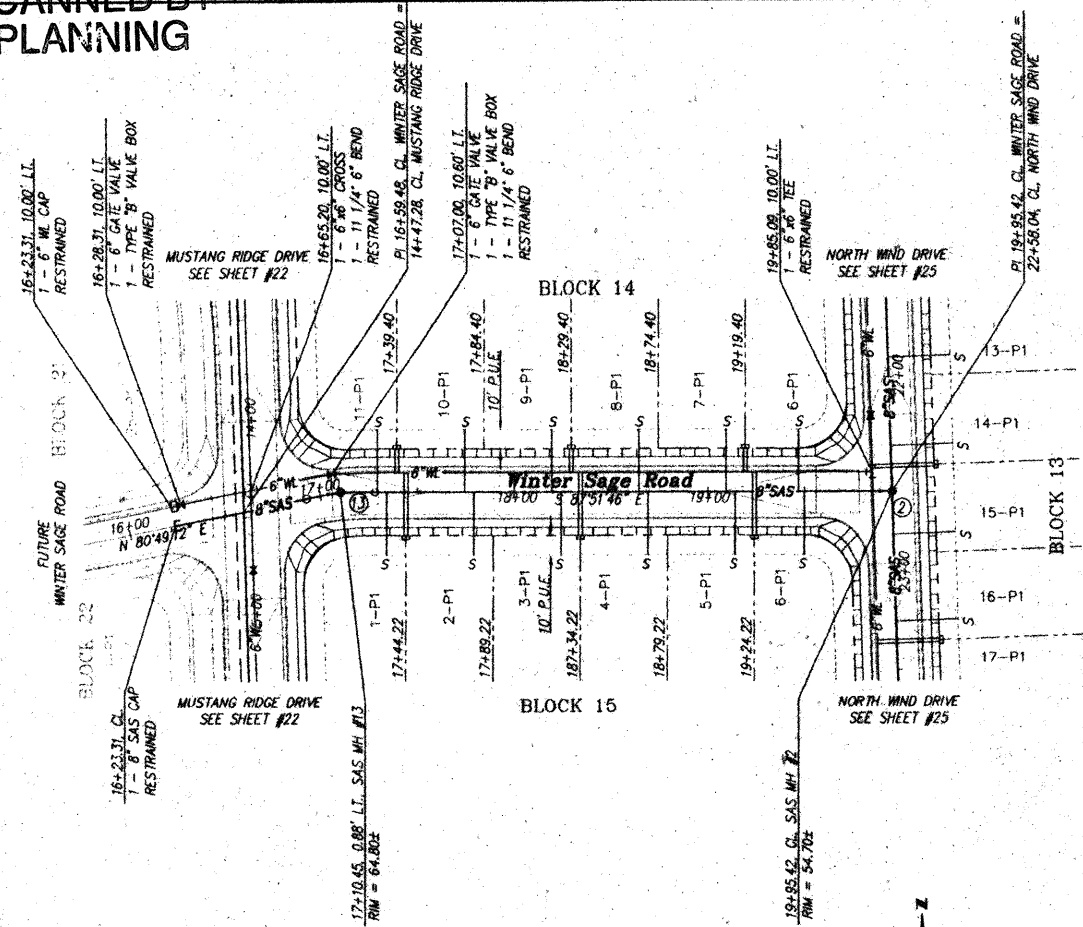
PROJECT NO.

CITY ENGINEER APPROVAL
MAY 21 2004
CITY ENGINEER
ZONE

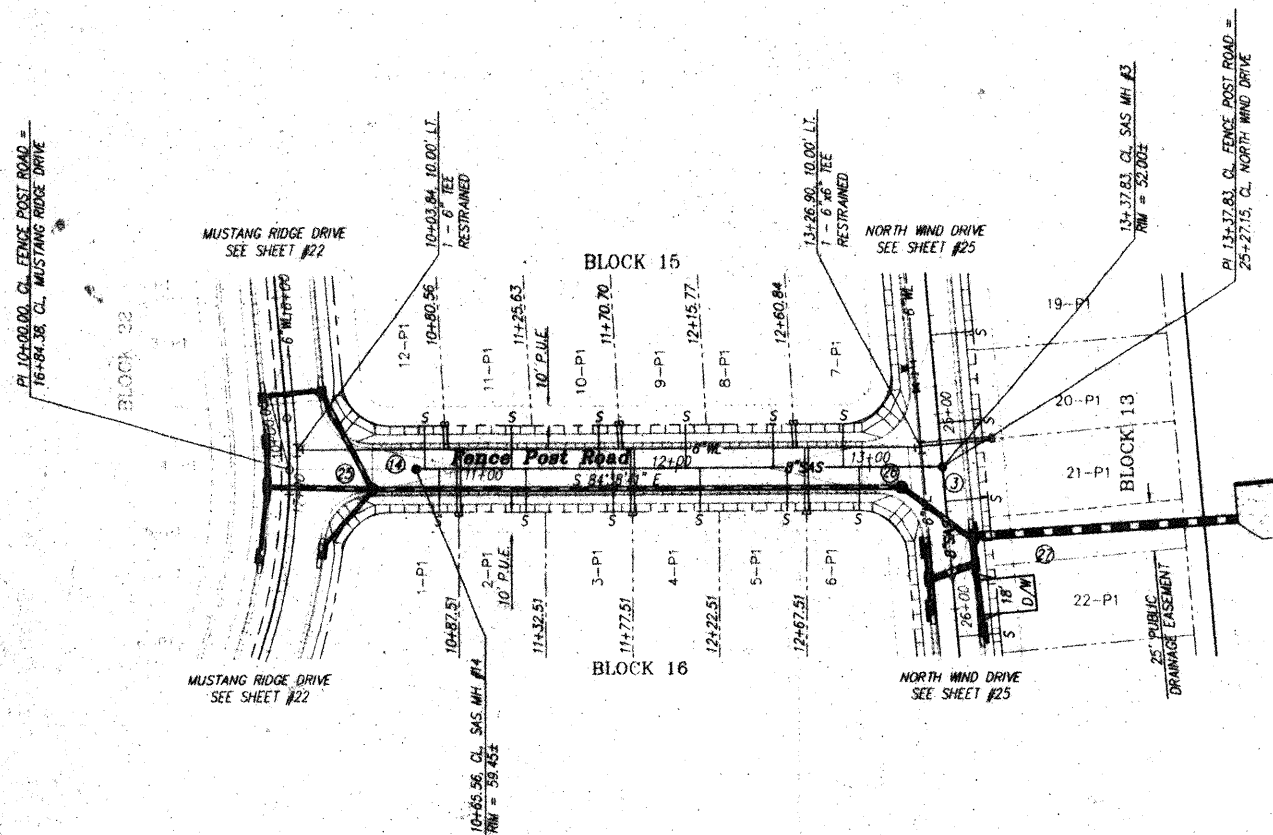
LAST DESIGN UPDATE MO / DAY / YR	MO / DAY / YR	MO / DAY / YR
M4P, INC.	CHEET	OF

A0124/UNIT4A/A0124-UP7/05-01-01 DER NHM

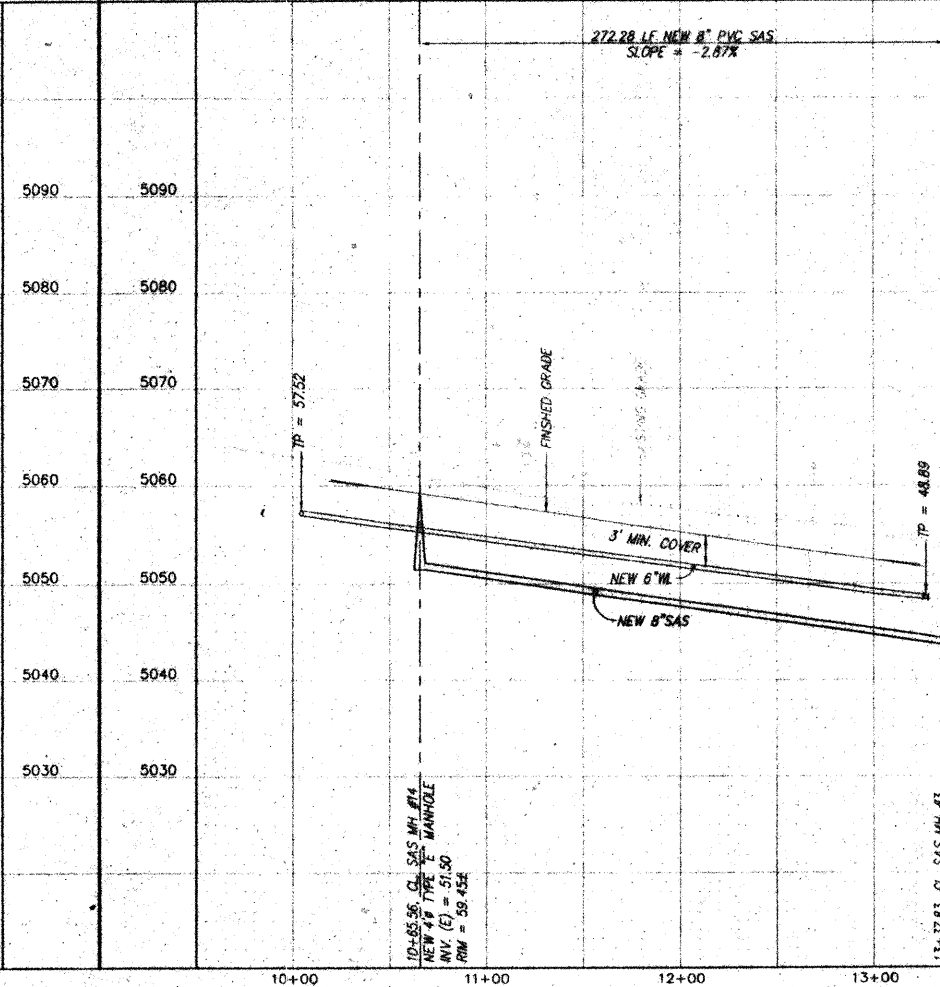
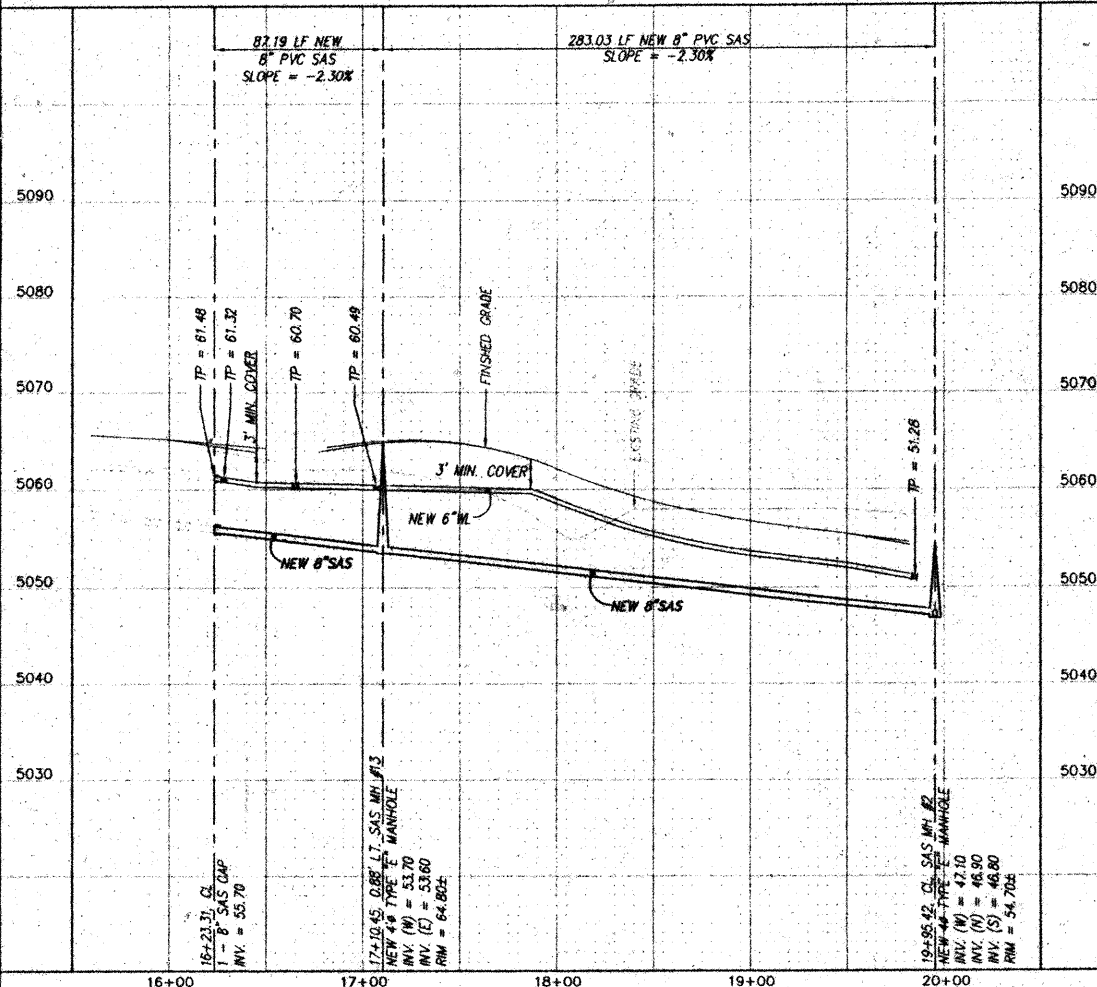
6456.84	M-9&N-9	25 38
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WINTER SAGE ROAD
STA. 16+59.48 TO STA. 19+95.42
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



FENCE POST ROAD
STA. 10+00.00 TO STA. 13+37.83
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

WINTER SAGE ROAD SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
14	6-P1	19+46.88	49.92	22.00'
14	7-P1	19+09.40	50.82	22.00'
14	8-P1	18+64.40	52.17	22.00'
14	9-P1	18+19.40	54.52	22.00'
14	10-P1	17+74.40	57.75	22.00'
14	11-P1	17+29.40	59.52	22.00'
15	1-P1	17+34.22	59.36	22.00'
15	2-P1	17+80.21	57.42	22.00'
15	3-P1	18+24.25	54.20	22.00'
15	4-P1	18+69.22	51.98	22.00'
15	5-P1	19+14.23	50.69	22.00'
15	6-P1	19+19.93	49.80	22.00'

FENCE POST ROAD SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
15	7-P1	12+86.46	47.60	22.00'
15	8-P1	12+50.28	48.47	22.00'
15	9-P1	12+05.20	49.17	22.00'
15	10-P1	11+60.13	51.06	22.00'
15	11-P1	11+15.06	52.36	22.00'
15	12-P1	10+69.99	53.65	22.00'
16	1-P1	10+77.51	53.45	22.00'
16	2-P1	11+22.51	52.15	22.00'
16	3-P1	11+67.51	50.85	22.00'
16	4-P1	12+12.51	49.56	22.00'
16	5-P1	12+57.51	48.26	22.00'
16	6-P1	12+94.83	47.36	22.00'

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'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

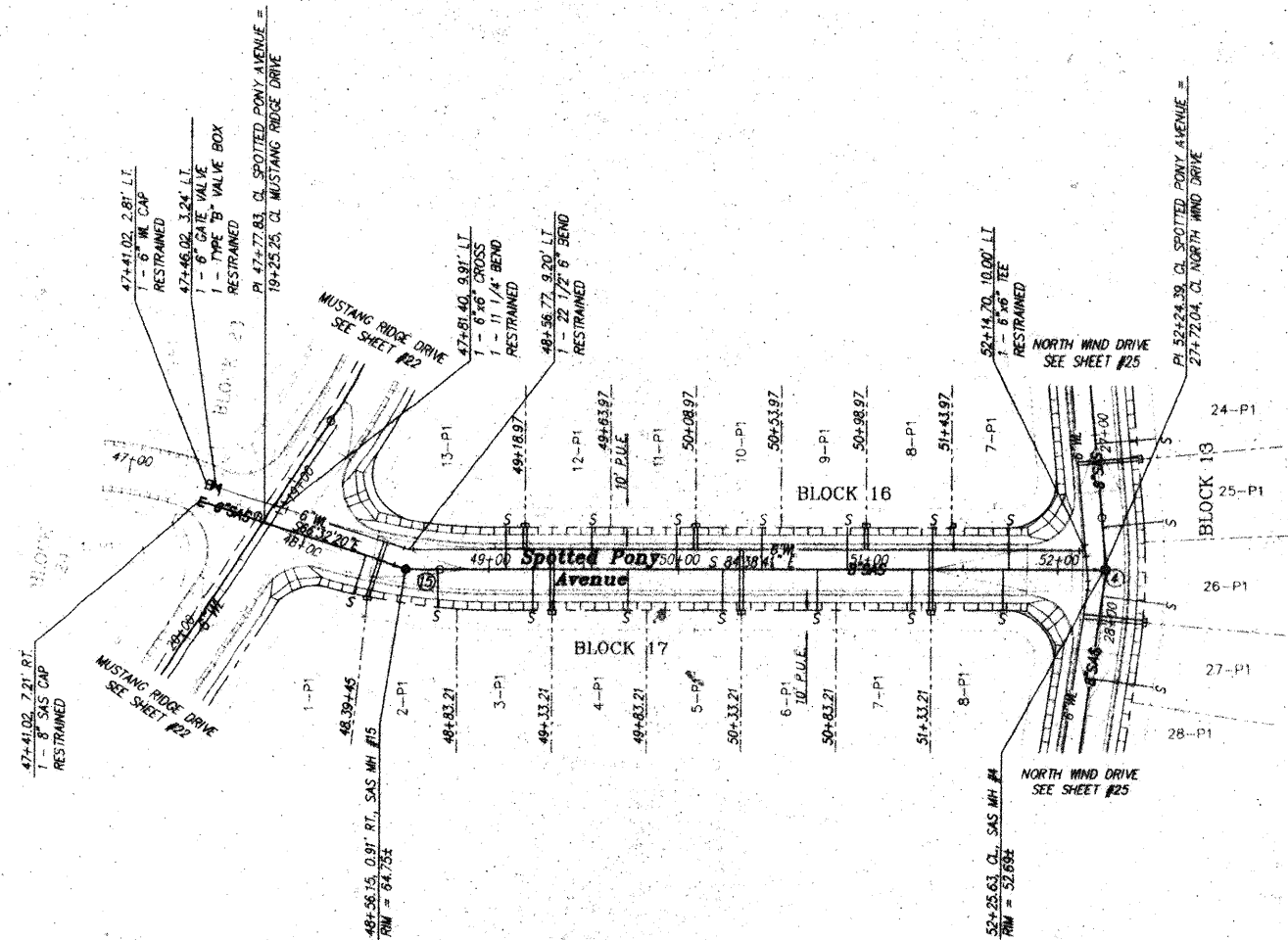
RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
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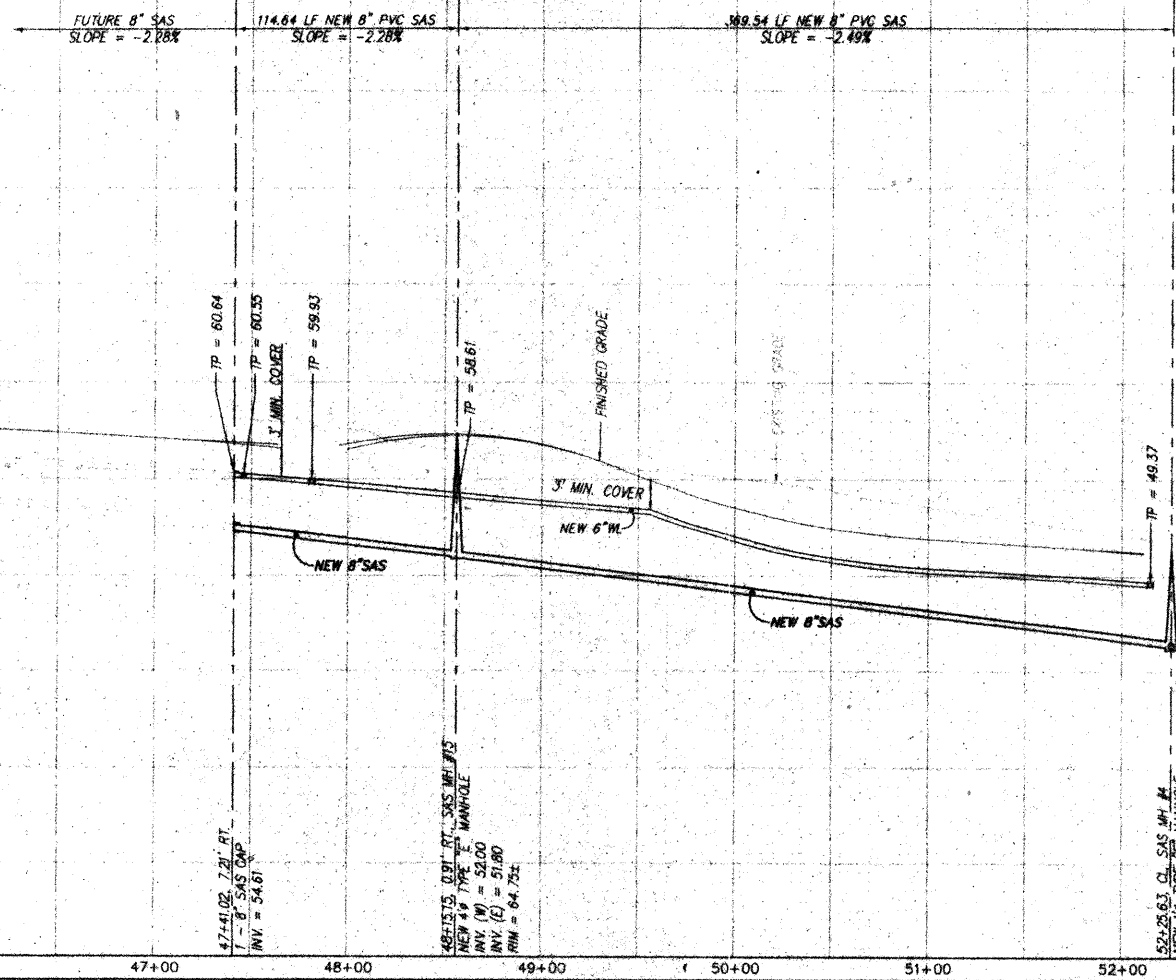
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE MAY 1 2001	CITY ENGINEER APPROVAL MAY 2 2001	MO./DAY/YR. MO./DAY/YR.
DESIGNED BY: JDM	DRAWN BY: NMM	CHECKED BY: DMG
DATE: 02/01	DATE: 02/01	DATE: 02/01

SCANNED BY
PLANNING



SPOTTED PONY AVENUE
STA. 47+00.00 TO STA. 52+24.39
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PL	INV. ELEV AT PL	LENGTH AT PL
16	7-P1	51+74.26	47.51	22.00'
16	8-P1	51+53.97	47.81	22.00'
16	9-P1	20+88.97	48.31	22.00'
16	10-P1	50+43.97	49.27	22.00'
16	11-P1	49+98.97	51.11	22.00'
16	12-P1	49+53.97	53.82	22.00'
16	13-P1	49+08.97	57.07	22.00'
17	1-P1	48+32.28	59.15	21.14'
17	2-P1	48+73.31	59.69	20.60'
17	3-P1	49+23.21	56.13	22.00'
17	4-P1	49+73.21	52.57	22.00'
17	5-P1	50+23.21	50.02	22.00'
17	6-P1	50+73.21	48.55	22.00'
17	7-P1	51+23.21	47.93	22.00'
17	8-P1	51+71.26	47.60	22.00'

CONTRACTOR		DATE	
WORK BY	DATE	WORK BY	DATE
INSPECTOR'S	DATE	INSPECTOR'S	DATE
DESIGNED BY	DATE	DESIGNED BY	DATE
DRAWN BY	DATE	DRAWN BY	DATE
CHECKED BY	DATE	CHECKED BY	DATE
RECORDED BY	DATE	RECORDED BY	DATE
NO.	DATE	NO.	DATE

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'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

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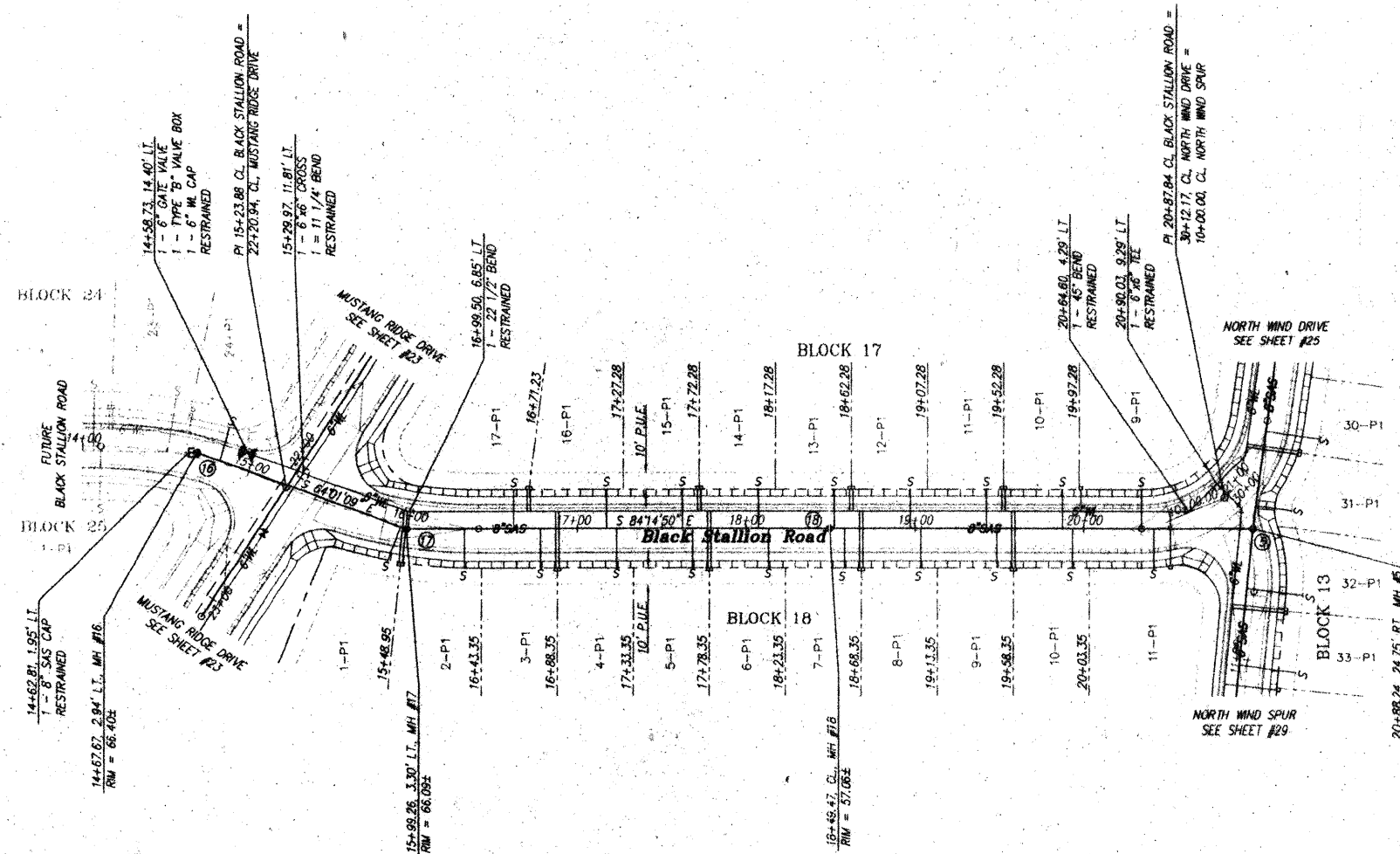
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		MO./DAY/YR.	
APPROVED	MAY 1 2001	APPROVED	MAY 2 2001		
DESIGN REVIEW COMMITTEE		CITY			
CITY PROJECT NO.	6456.84	ZONE MAP NO.	M-98N-9	SHEET	OF

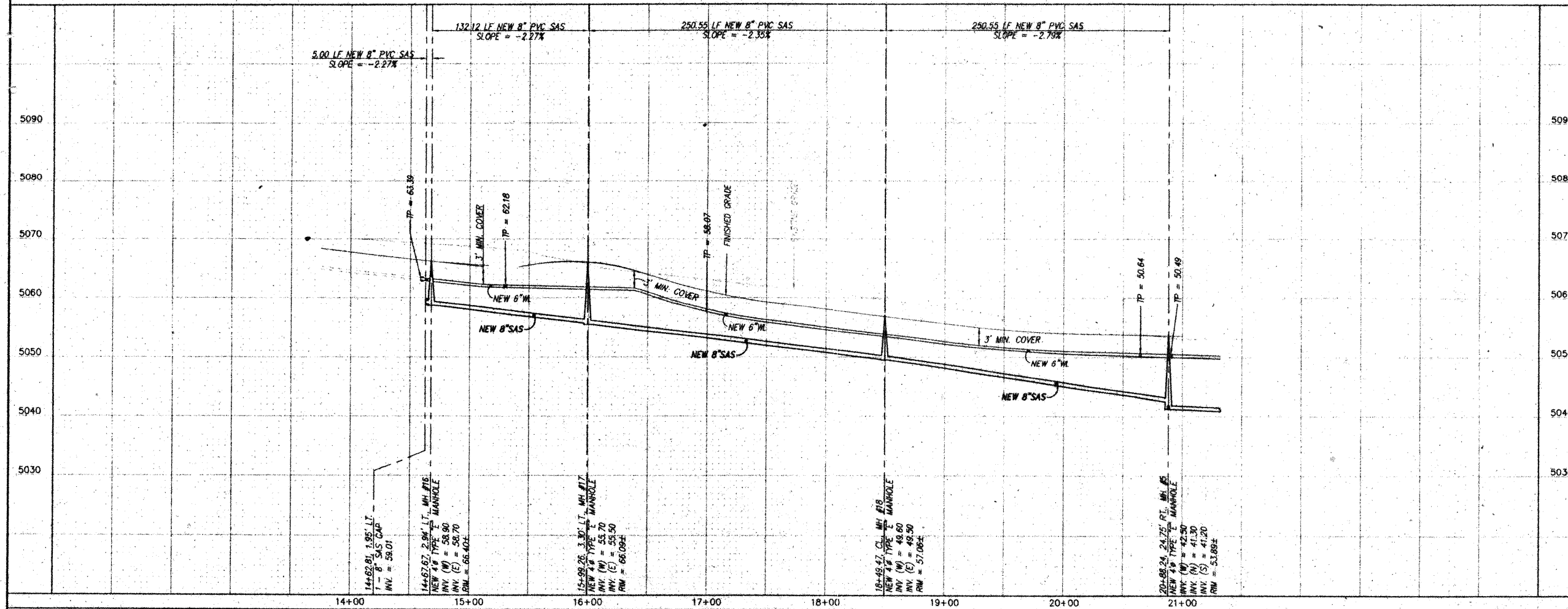
A0124/UNIT4A/A0124-UP12/05-01-01 NHM

5-101
REGISTERED PROFESSIONAL
ENGINEER
JAMES D. MURPHY
NEW MEXICO
1987

SCANNED BY
PLANNING



BLACK STALLION ROAD
STA. 14+50.00 TO STA. 21+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
17	9-P1	20+34.24	48.45	23.00'
17	10-P1	19+87.28	48.65	23.00'
17	11-P1	19+42.28	49.10	23.00'
17	12-P1	18+97.28	49.94	23.00'
17	13-P1	18+52.28	51.04	23.00'
17	14-P1	18+07.28	52.14	23.00'
17	15-P1	17+62.28	53.25	23.00'
17	16-P1	17+17.28	54.46	23.00'
17	17-P1	16+62.43	57.09	23.00'
18	1-P1	15+02.07	60.59	20.75'
18	2-P1	16+33.99	58.88	23.00'
18	3-P1	16+62.43	56.15	23.00'
18	4-P1	17+23.35	54.20	23.00'
18	5-P1	17+68.35	53.10	23.00'
18	6-P1	18+13.35	52.00	23.00'
18	7-P1	18+58.35	50.89	23.00'
18	8-P1	19+03.35	49.79	23.00'
18	9-P1	19+48.35	49.01	23.00'
18	10-P1	19+93.35	48.96	23.00'
18	11-P1	20+38.35	48.80	22.74'
24	24-P1	14+81.76	58.80	20.54'

NO.	DATE	BY	REVISIONS
1	02/01	JDH	DESIGN
2	02/01	NHM	CHECKED
3	02/01	DMG	APPROVED

PIPE SIZE	90'	45'	22.5'	11.25'	VALVE
6"	17'	7'	-	-	45'
8"	22'	9'	4'	2'	60'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

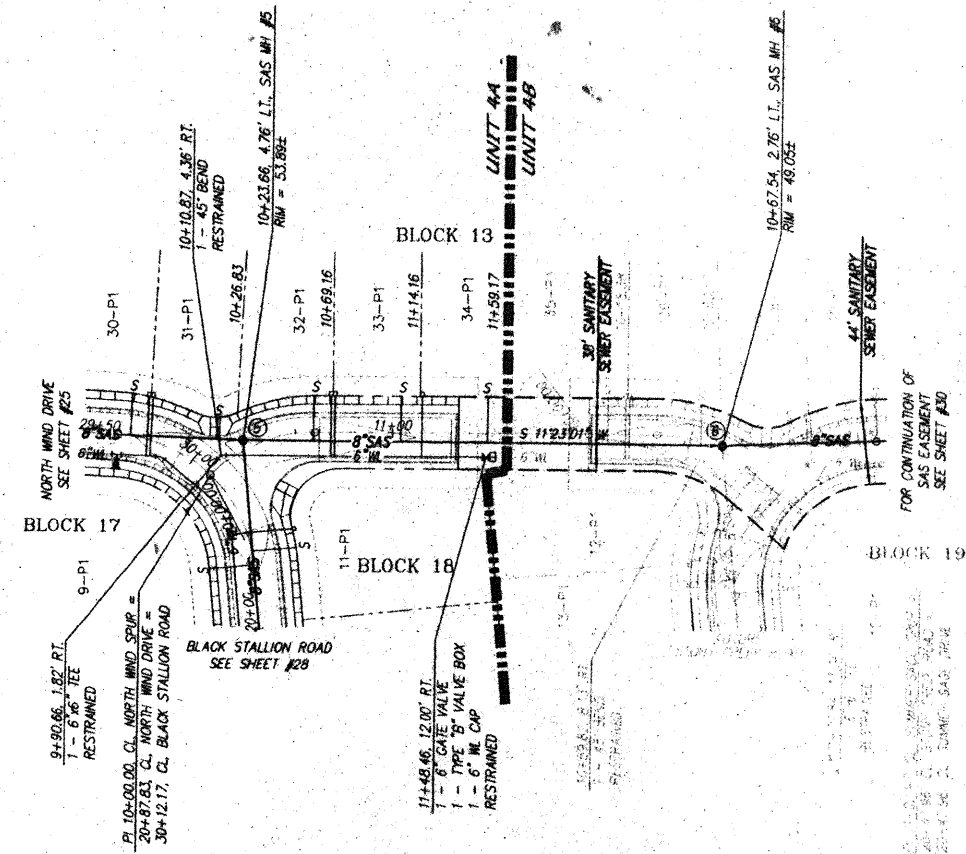
EL RANCHO GRANDE I, UNIT #4
UTILITY IMPROVEMENTS

DESIGN REVIEW	CITY ENGINEER APPROVAL	NO. / DAY / YR	MO. / DAY / YR
MAY 1 - 2001	MAY 21 - 2001		

A0124/UNIT4A/A0124-UP16/05-01-01 NHM

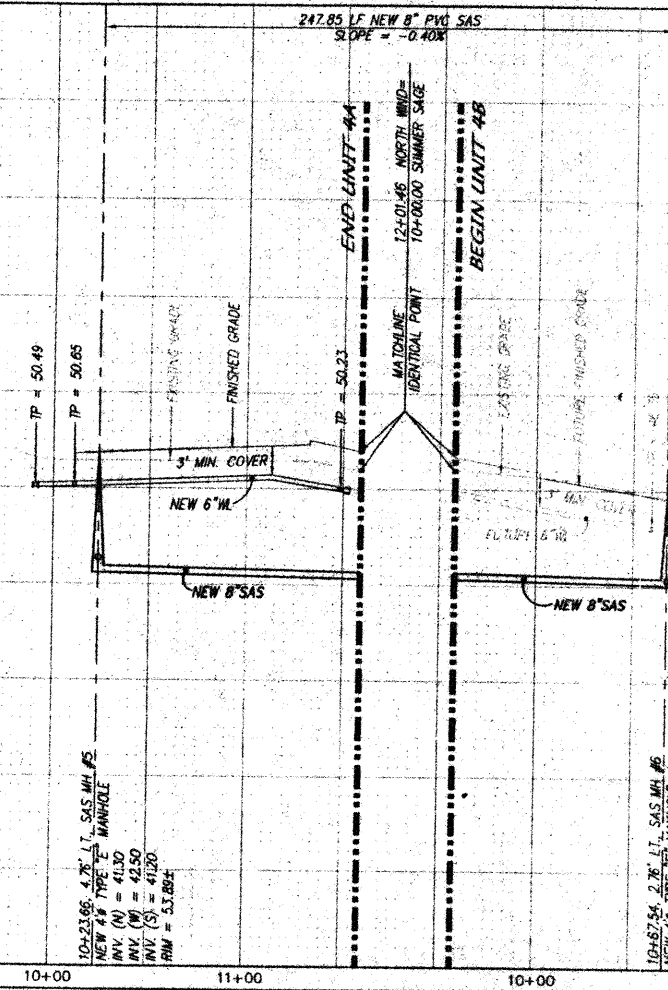
CITY PROJECT NO. 6456.84 ZONE MAP NO. N-9 & M-9 SHEET 28 OF 38

SCANNED BY
PLANNING



NORTH WIND SPUR
STA. 10+00.00 TO STA. 11+32.55
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

SLEMMER SAGE SPUR
STA. 10+00.00 TO STA. 11+02.97
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



NOTES				
1. ALL STATIONING IS CENTERLINE STATIONING.				
NORTH WIND SPUR SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
13	31 -P1	10+18.82	48.19	11.28'
13	32-P1	10+59.39	48.66	23.47'
13	33-P1	11+04.52	49.11	23.55'
13	34-P1	11+49.16	49.20	23.70'

LOCAL INFORMATION						
STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO.-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GREGSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND 30'-OF-ELECTRIC TRANSMISSION LINE 0.85 MI. TO X-ON NUMBERED "92". STATION IS JUST EAST OF THIS POINT.						
CONTRACTOR		WORK ORDER NO.		DRAWN BY		
ASSOCIATION BY PROJECT NO.		CHECKED BY		DATE		
M.C.O. PLAN INFORMATION		DATE		DATE		
ACRS MON 71 - NW, SW COR. 86TH & SAGE. NAUD 20 EL = 8147.87						

[illegible]

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"
10"	—	11'	5'	3'	72"
12"	30'	12'	6'	3'	85"

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
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

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 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

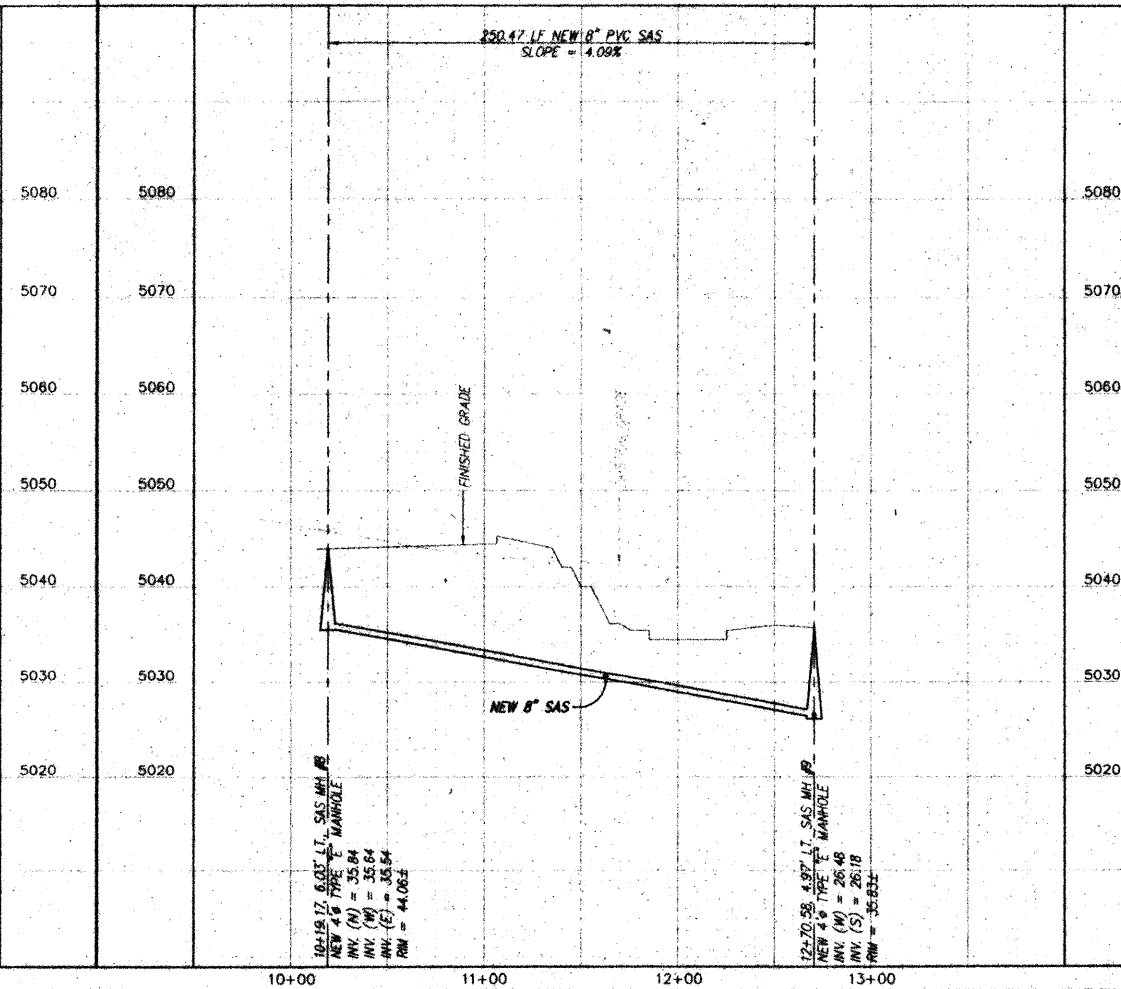
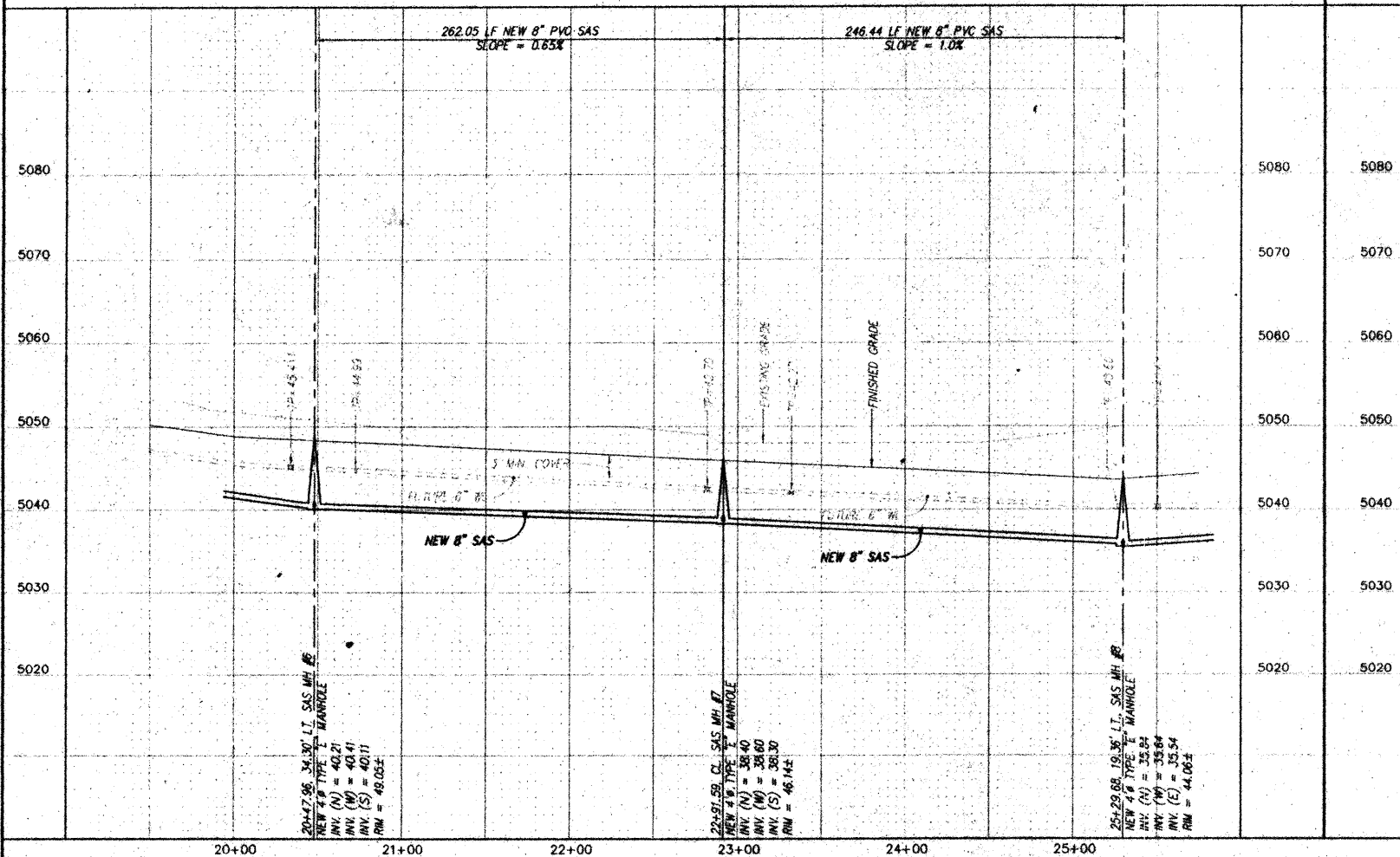
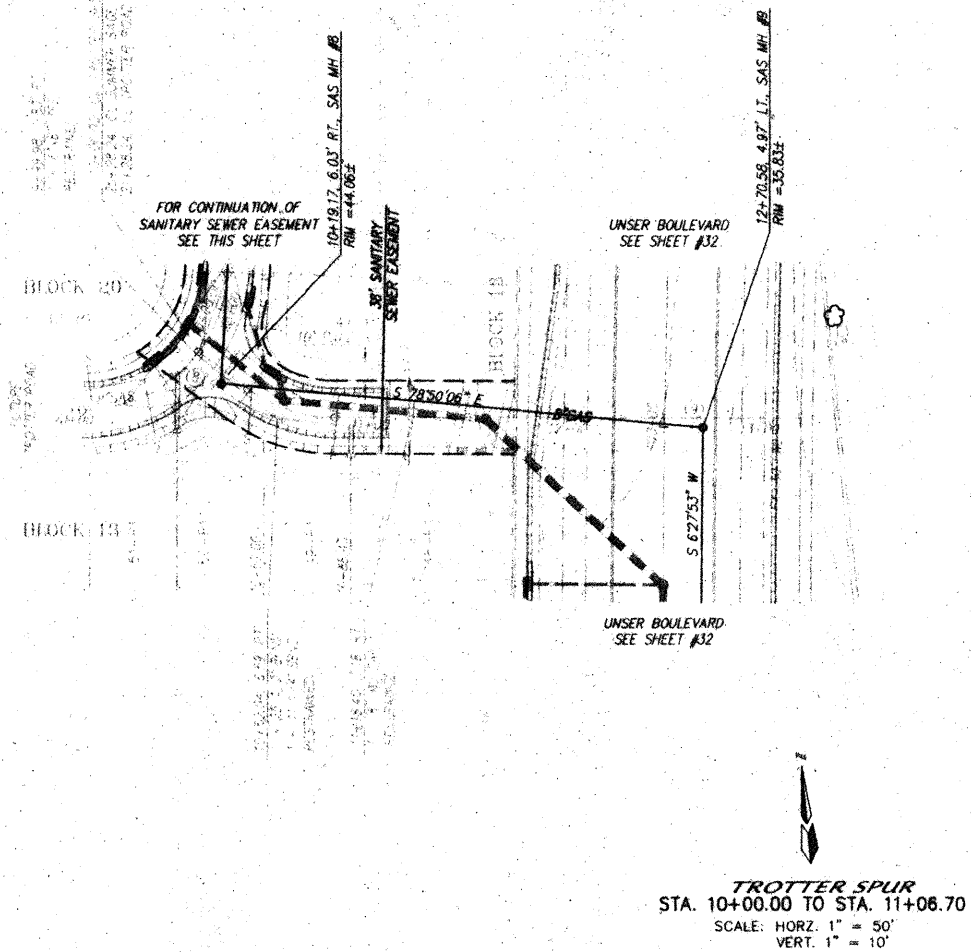
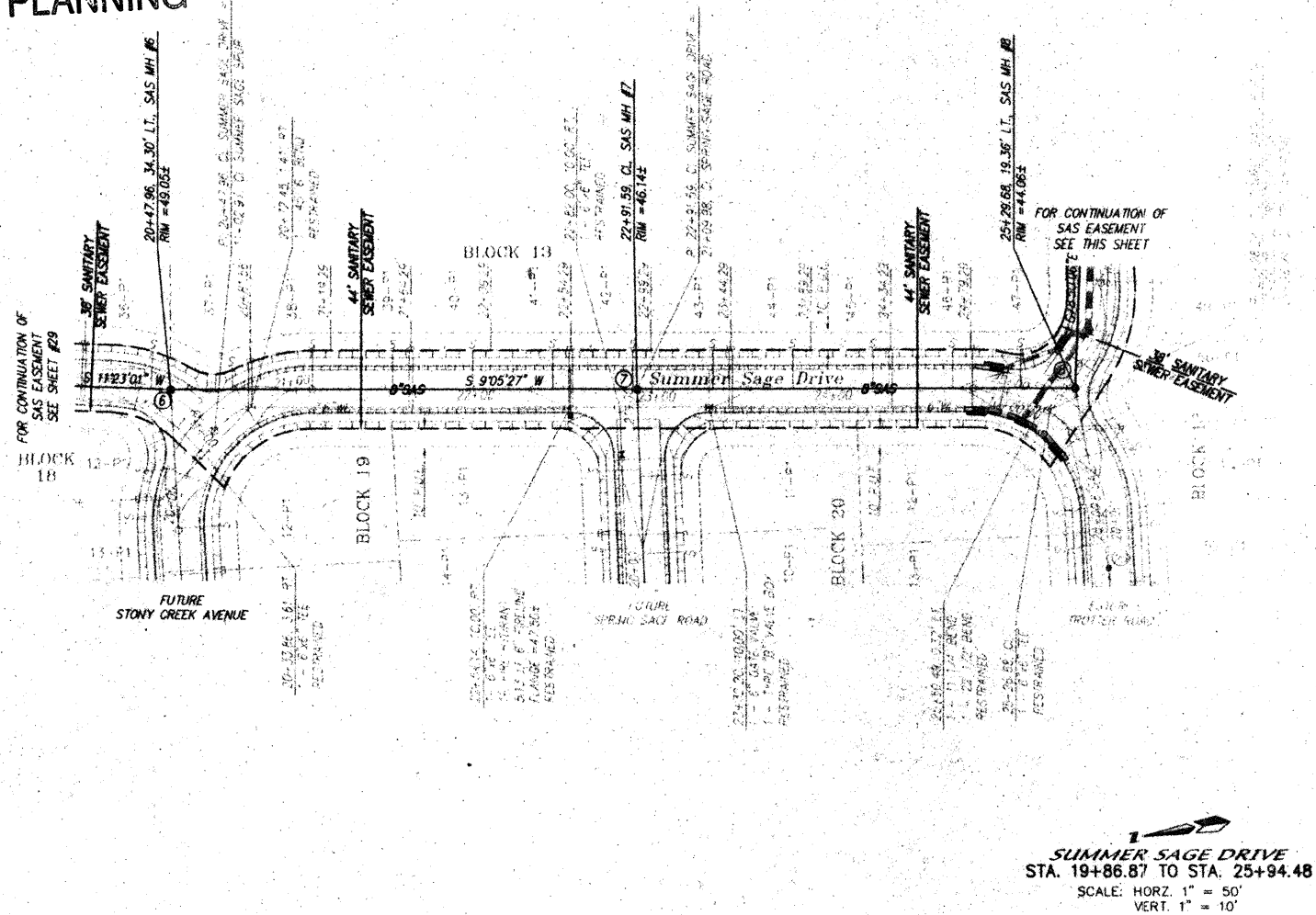
*EL RANCHO GRANDE I UNIT 4A
UTILITY IMPROVEMENTS*

APPROVED MAY 1 2001 DESIGN REVIEW COMMITTEE	CITY-ENGINEER APPROVAL		MO / DAY / YR	MO / DAY / YR
	MAY 21 2001			

A0124/UNIT4A/A0124-UP17/05--01--01 NHM

6456.84	ZONE MAP NO. M-9&N-9	SHEET OF 29 38
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PLANNING



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

TABLE 1. 1963-1964			
Year	1963	1964	1965
1963	100	100	100
1964	100	100	100
1965	100	100	100
1966	100	100	100
1967	100	100	100
1968	100	100	100
1969	100	100	100
1970	100	100	100
1971	100	100	100
1972	100	100	100
1973	100	100	100
1974	100	100	100
1975	100	100	100
1976	100	100	100
1977	100	100	100
1978	100	100	100
1979	100	100	100
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1981	100	100	100
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2011	100	100	100
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2013	100	100	100
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2046	100	100	100
2047	100	100	100
2048	100	100	100
2049	100	100	100
2050	100	100	100
2051	100	100	100
2052	100	100	100
2053	100	100	100

SOURCE INFORMATION		FIELD NOTES		AS BUILT INFORMATION	
NO.	BY	DATE	CONTRACTOR	WORK	DATE
			STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.M. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE, TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO Pylon NUMBERED "52". STATION IS JUST EAST OF THIS POINT.	NO	
			ACS MON-T-1, BKT, SW COR. 98TH & SAGE. NAUD 28, EL = 5147.57		

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	12'	7'	—	—	46"
8"	22'	9'	4'	2'	60"
10"	—	11'	5'	3'	72"
12"	30'	12'	6'	3'	85"

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
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

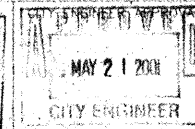
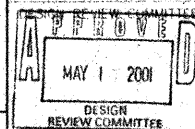


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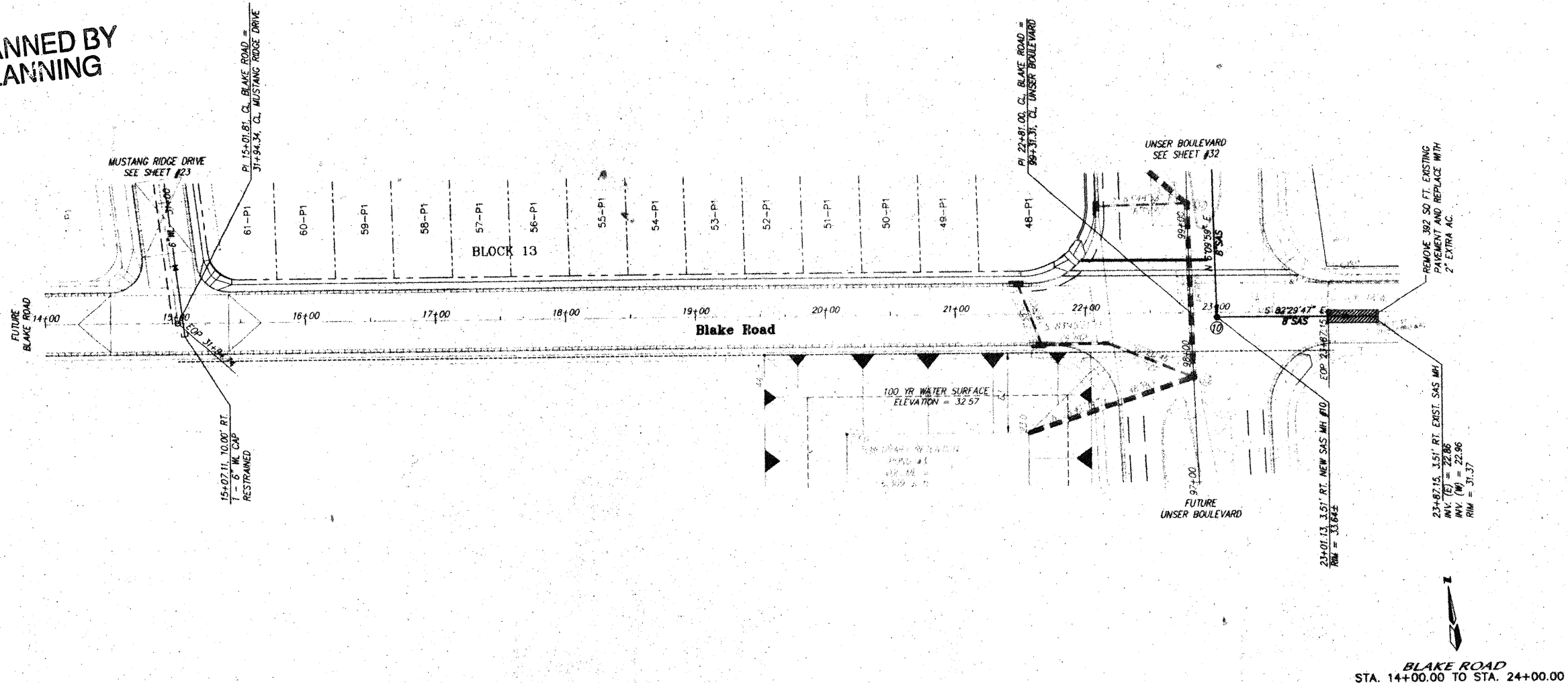
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

**EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS**

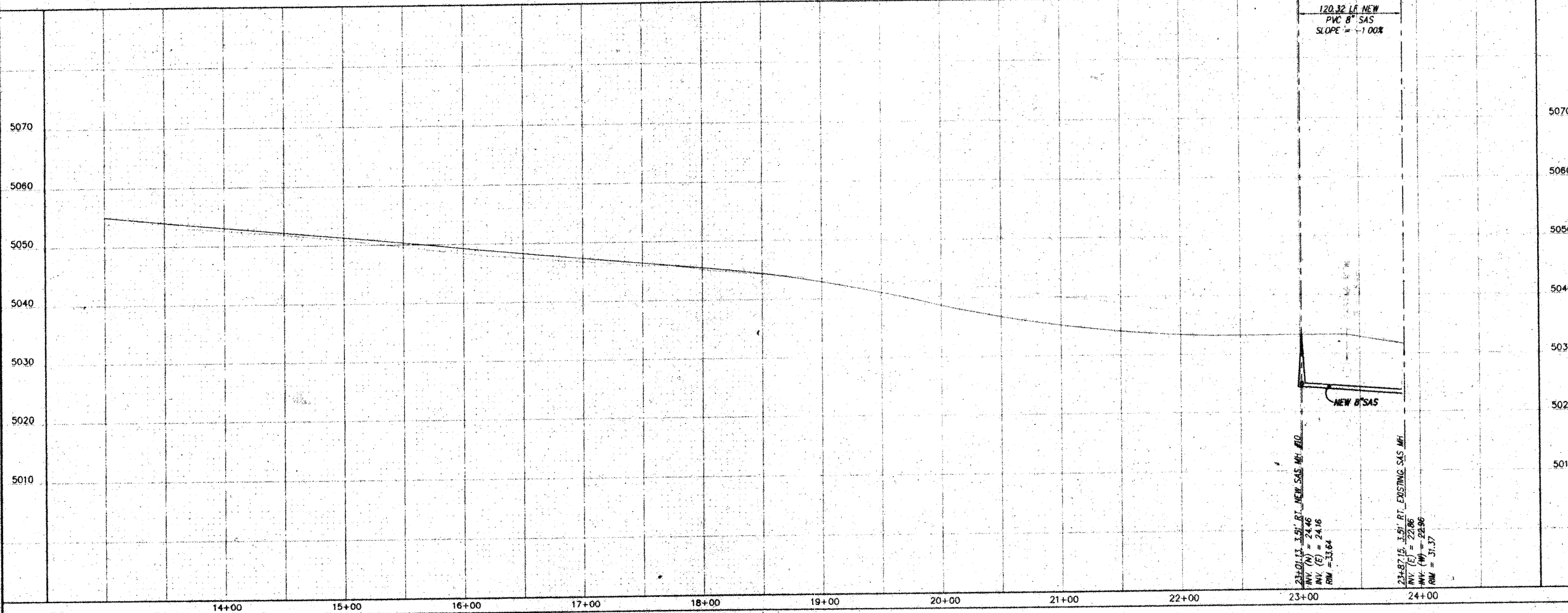
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CITY PROJECT NO.	ZONE MAP NO.	SHEET OF
6456.84	M-9&N-9	30 38

SCANNED BY
PLANNING



BLAKE ROAD
STA. 14+00.00 TO STA. 24+00.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



A0124/UNIT4A/A0124-UP5/05-01-01 NHM

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SURVEY INFORMATION			BENCH MARKS			AS-BUILT INFORMATION		
NO.	FIELD NOTES	DATE	STATION	CONTRACTOR	DATE	STATION	CONTRACTOR	DATE
			STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO.-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD. THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO Pylon NUMBERED "32". STATION IS JUST EAST OF THIS POINT.					
			X = 354,899.45, Y = 1,471,822.67, G-G = 0.99867321 (NAD 1987)					
			ACS MON "1 - 887", SW COR. 98TH & SAGE, NAUD 28, EL. = 5147.87					



PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	-	-	46'
8"	22'	9'	4'	2'	60'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

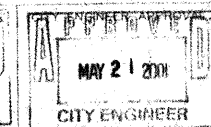
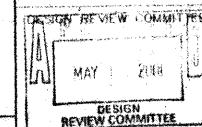


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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

**EL RANCHO GRANDE I, UNIT 4A
UTILITY IMPROVEMENTS**



CITY PROJECT NO.	
------------------	--

ZONE MAP NO.

AST DESIGN UPDATE

MO



YR

Figure 1. A schematic diagram of the experimental setup. The subject is seated in a chair, viewing a video screen. The screen displays a target (a small circle) and a starting point (a larger circle). The subject's hand is positioned at the starting point. The distance between the starting point and the target is labeled as 'Distance'. The subject is instructed to move their hand from the starting point to the target. The video screen is connected to a computer system, which records the subject's movement. The computer system is also connected to a data acquisition system, which records the subject's movement data. The data acquisition system is connected to a computer, which stores the data. The computer is connected to a printer, which prints the data. The printer is connected to a plotter, which plots the data. The plotter is connected to a graph, which shows the data. The graph is connected to a table, which contains the data. The table is connected to a database, which stores the data. The database is connected to a network, which connects to the internet. The internet is connected to a server, which stores the data. The server is connected to a client, which accesses the data. The client is connected to a user, who uses the data. The user is connected to a system, which uses the data. The system is connected to a process, which uses the data. The process is connected to a result, which is the final output of the system.

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

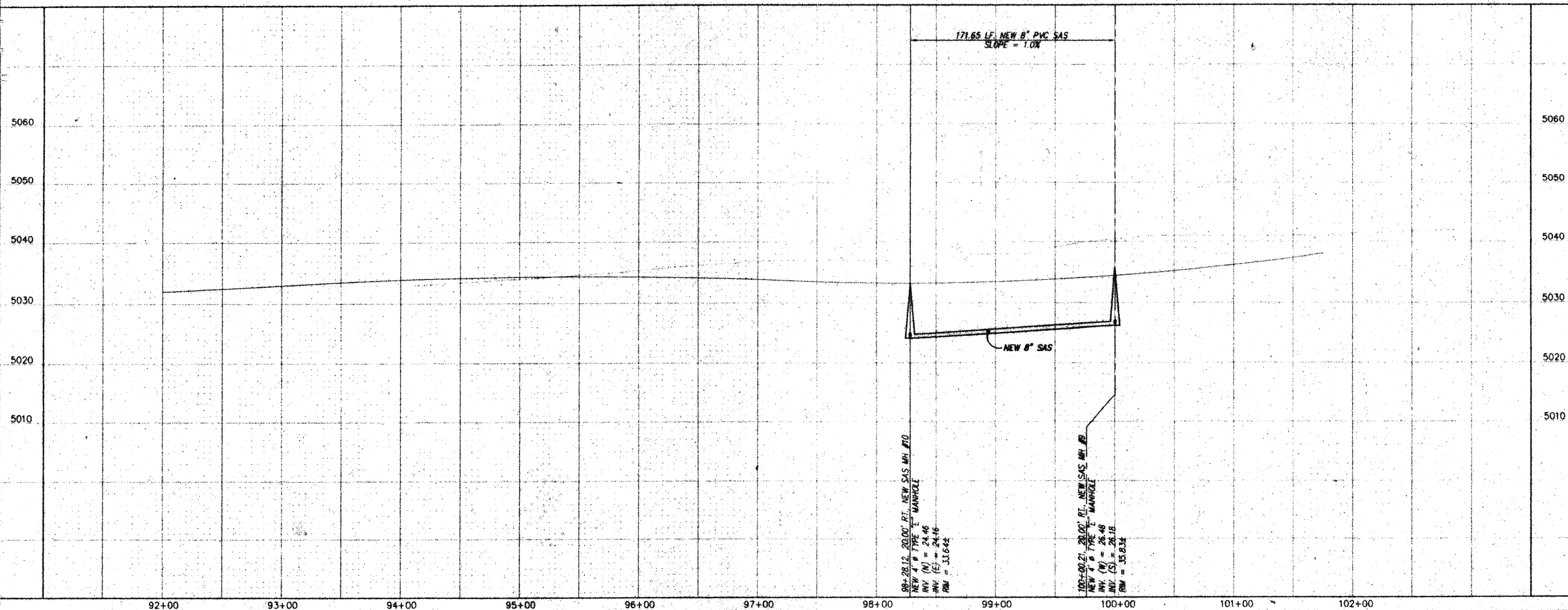
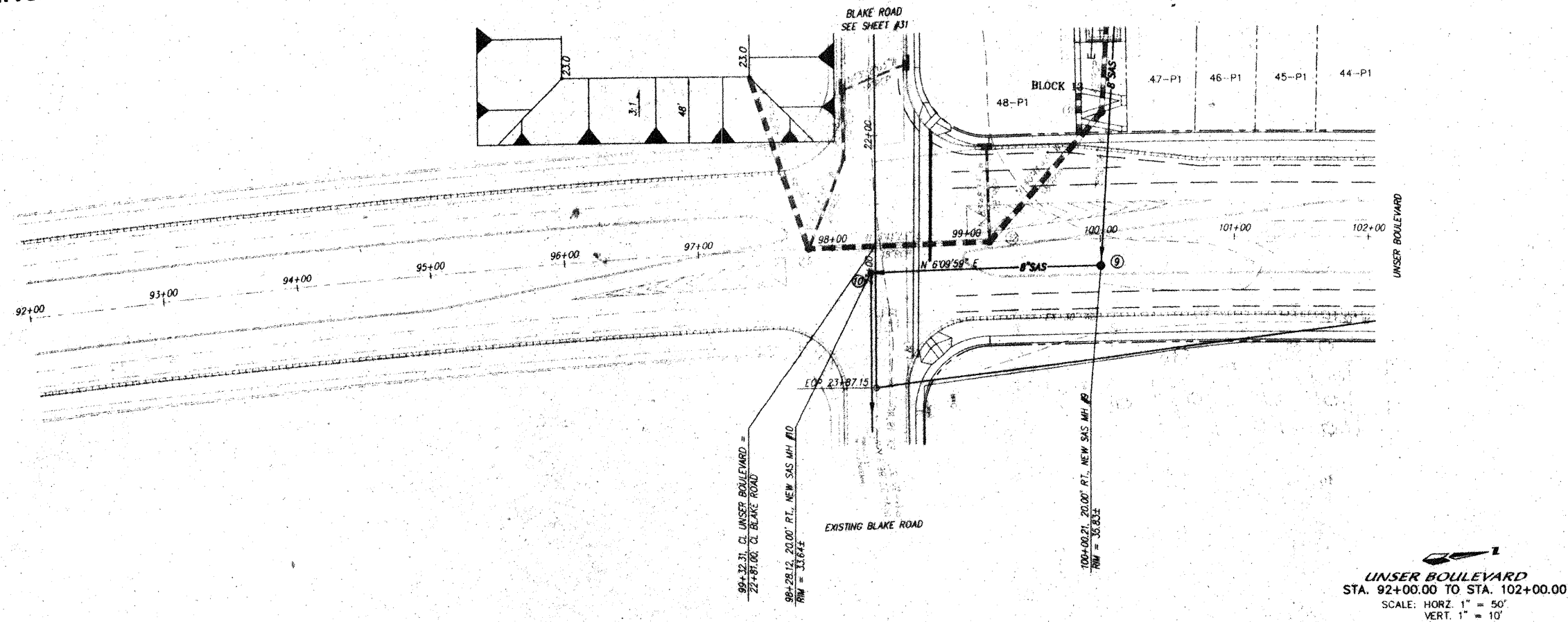
CITY PROJECT NO.	
------------------	--

ZONE MAP NO.

SHEET OF

100

SCANNED BY
PLANNING



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

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'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

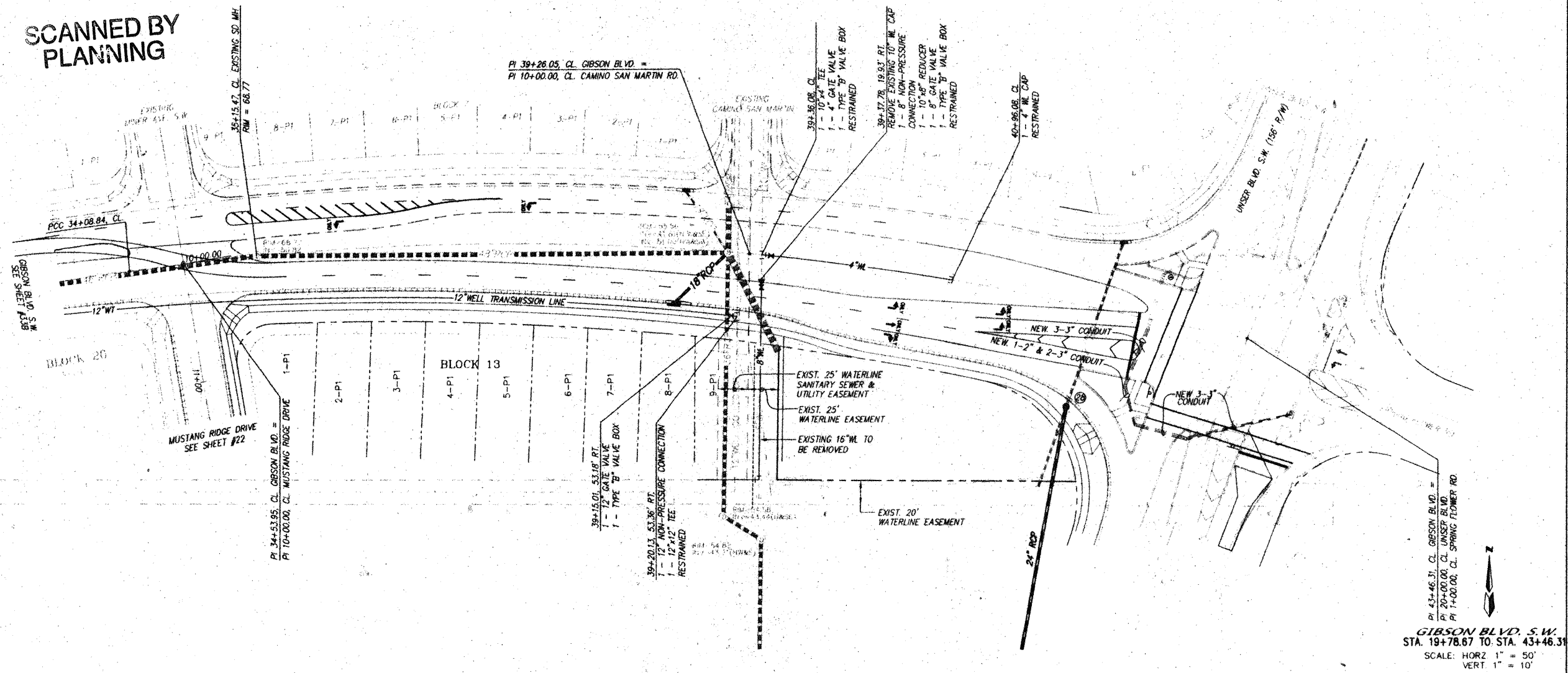
dmg MARK GOODWIN & ASSOCIATES, P.A.
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(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: **EL RANCHO GRADE 1, UNIT 4A**
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE	ENGINEER APPROVAL	DATE	MO/DAY/YR
MAY 1 2001	MAY 2 2001		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	DATE	MO/DAY/YR

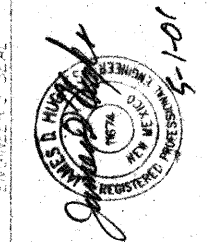
CITY PROJECT NO. **6456.84** ZONE MAP NO. **M-98N-9** SHEET **32** OF **38**

SCANNED BY
PLANNING



NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.

PROJECT INFORMATION		REVISIONS	
PROJECT NO.	6456.84	REVISION	DATE
DATE	05/15/01	BY	DATE
DESIGNED BY	AKH	REVISION	DATE
DRAWN BY	AKH	REVISION	DATE
CHECKED BY	DMG	REVISION	DATE
APPROVED BY		REVISION	DATE
DATE		REVISION	DATE



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'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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
10"x10"x10"	15'	5'
6"x6"x6"	10'	2'

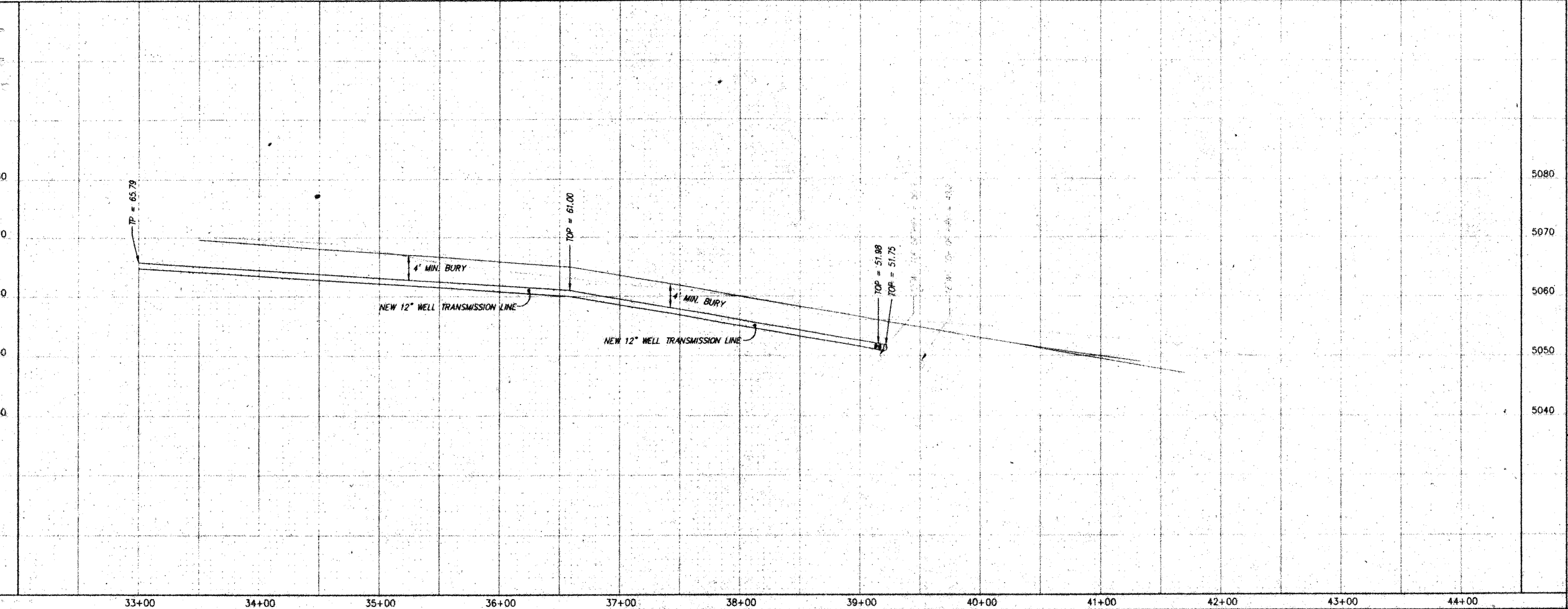
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87189
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

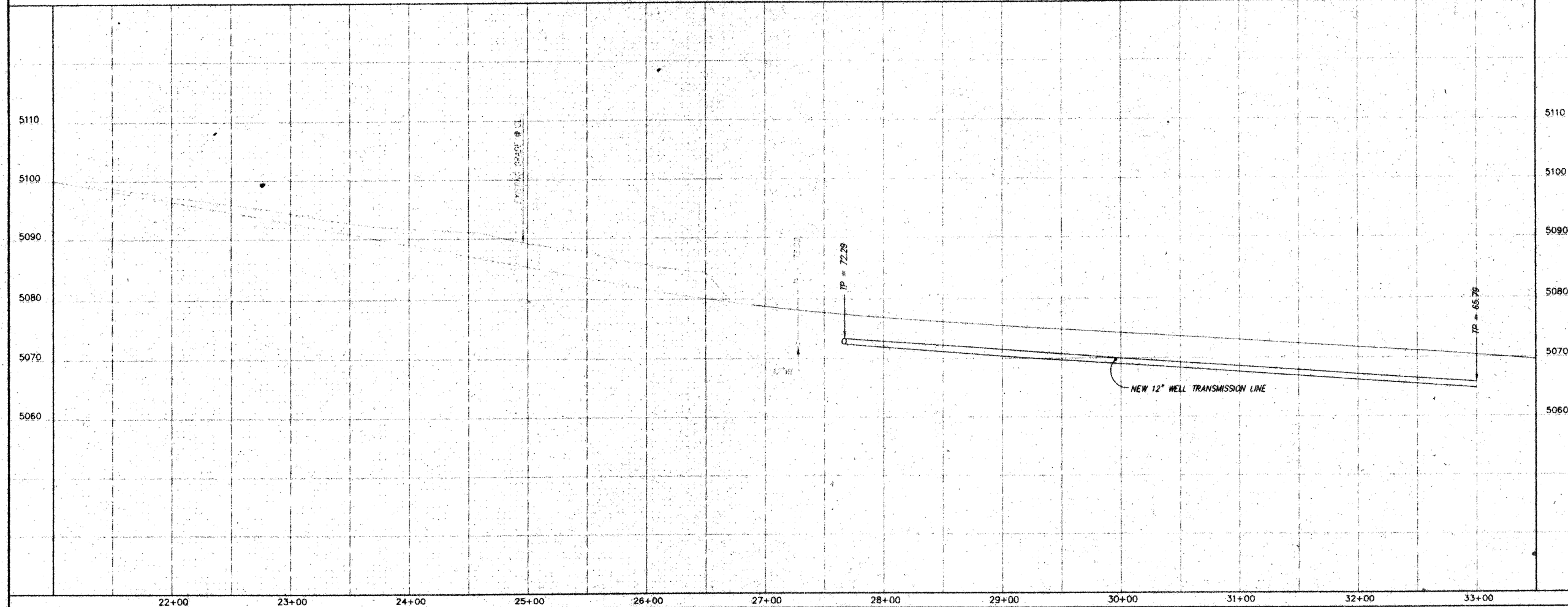
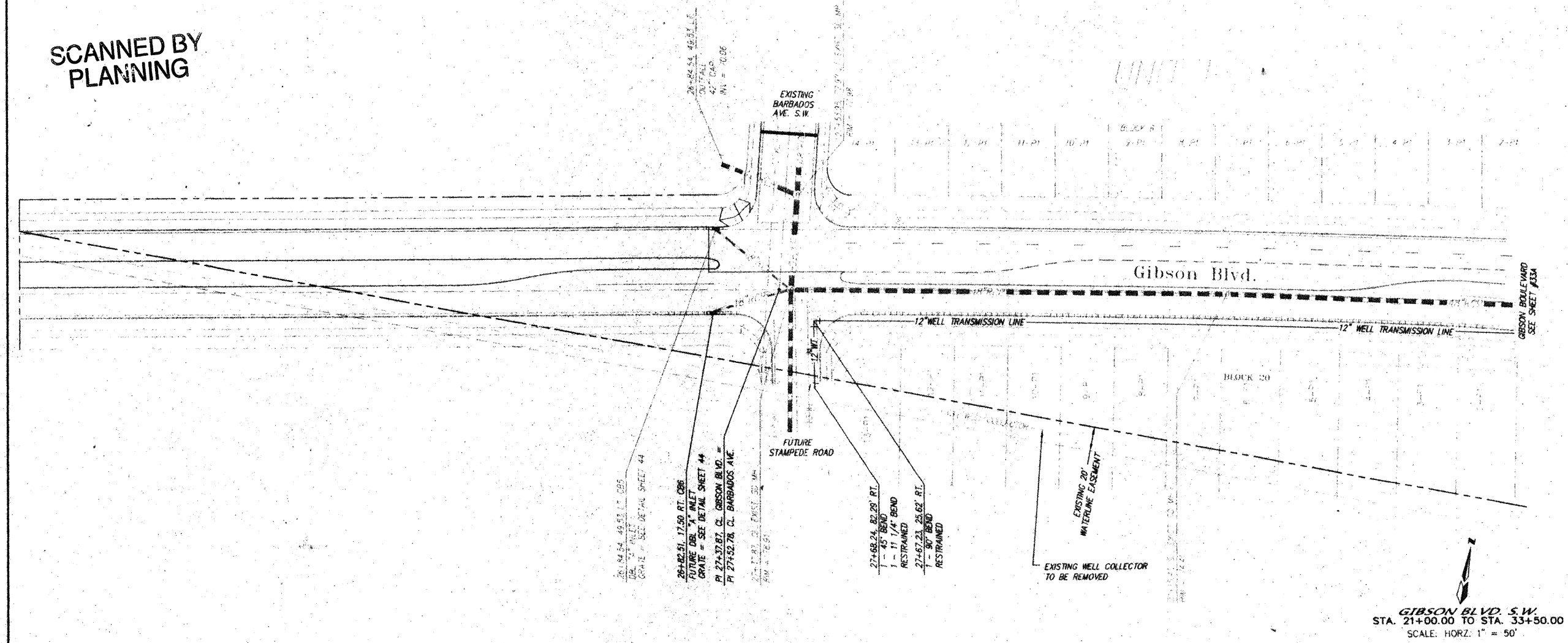
EL RANCHO GRANDE I - UNIT 4A
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE: MAY 1 2001
CITY ENGINEER APPROVAL: MAY 21 2001
LAST DESIGN UPDATE: MAY 21 2001

CITY PROJECT NO. 6456.84
ZONE-MAP NO. M-9&N-9
SHEET 33A 38



SCANNED BY
PLANNING



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

AS BUILT INFORMATION

CONTRACTOR	DATE
MARK GOODWIN & ASSOCIATES, P.A.	05/01

REVISIONS

NO.	DATE	BY	REMARKS
1	05/01	JDH	DESIGN
2	05/01	NHM	DESIGN
3	05/01	DWG	DESIGN

DESIGN REVIEW COMMITTEE

MAY 1 2001

CITY ENGINEER APPROVAL

MAY 1 2001

CITY ENGINEER

DESIGN REVIEW COMMITTEE

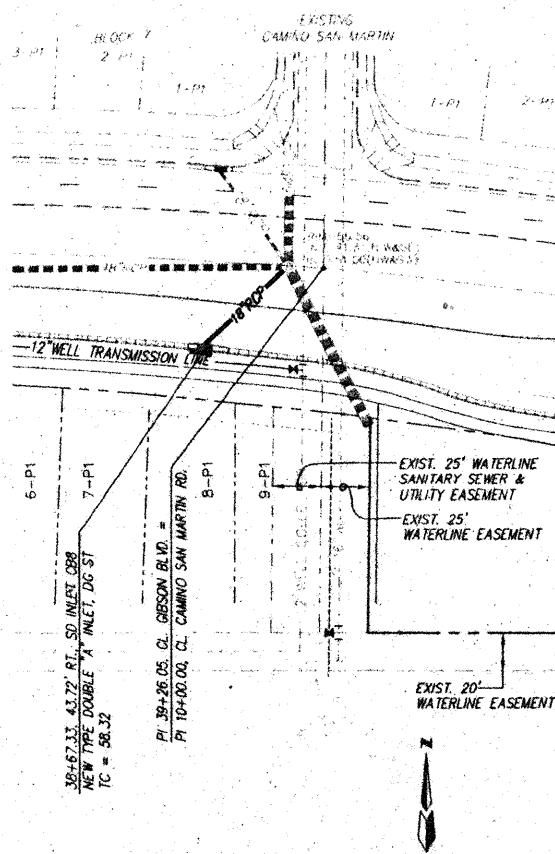
MAY 1 2001

CITY PROJECT NO. 6456.84

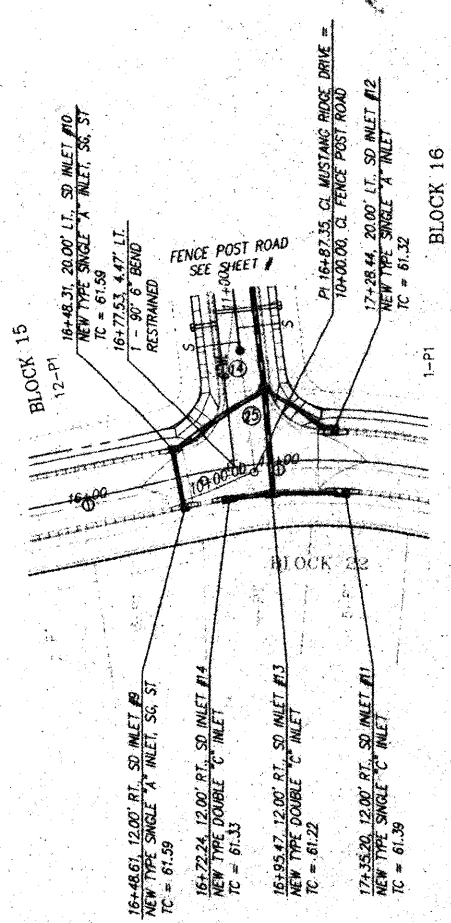
ZONE MAP NO. M-9 & M-10

SHEET 33B 38

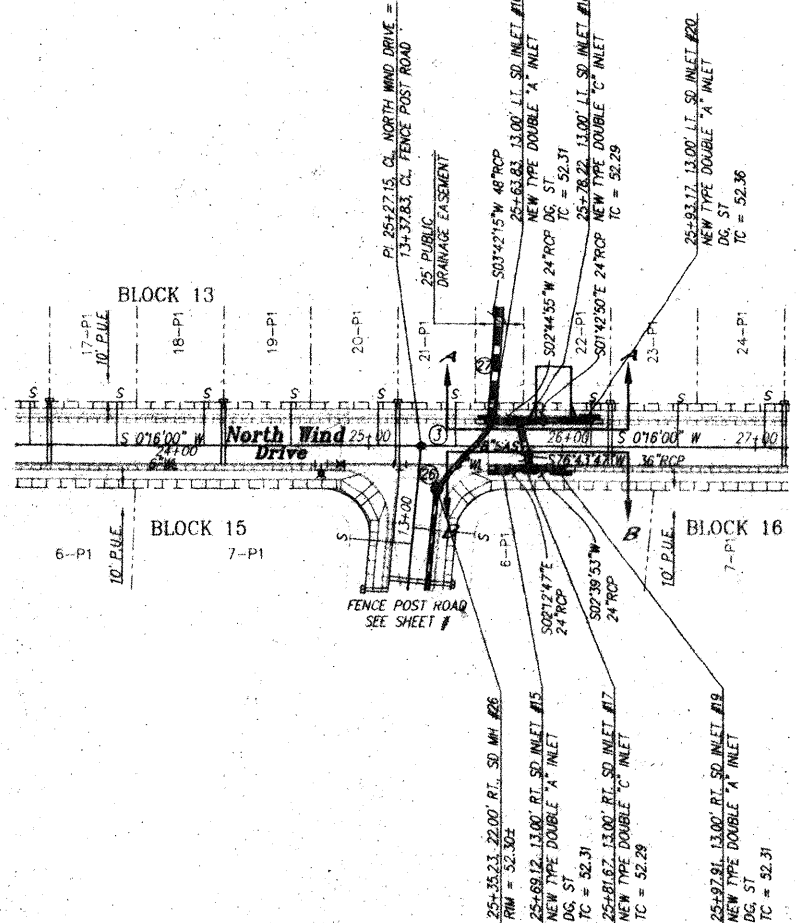
SCANNED BY
PLANNING



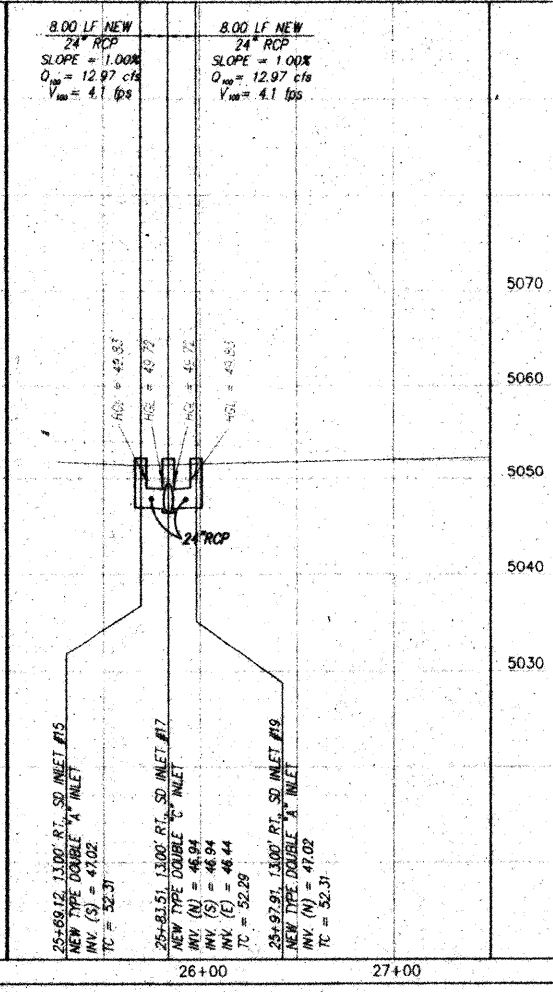
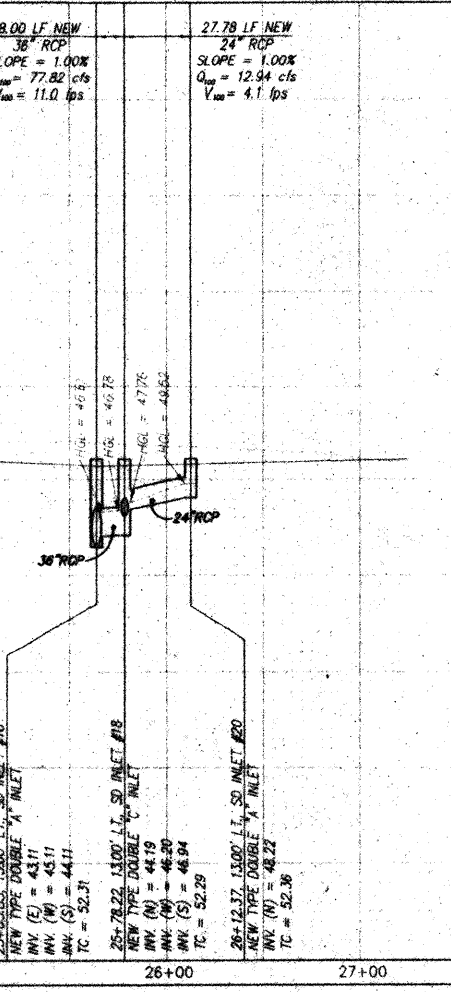
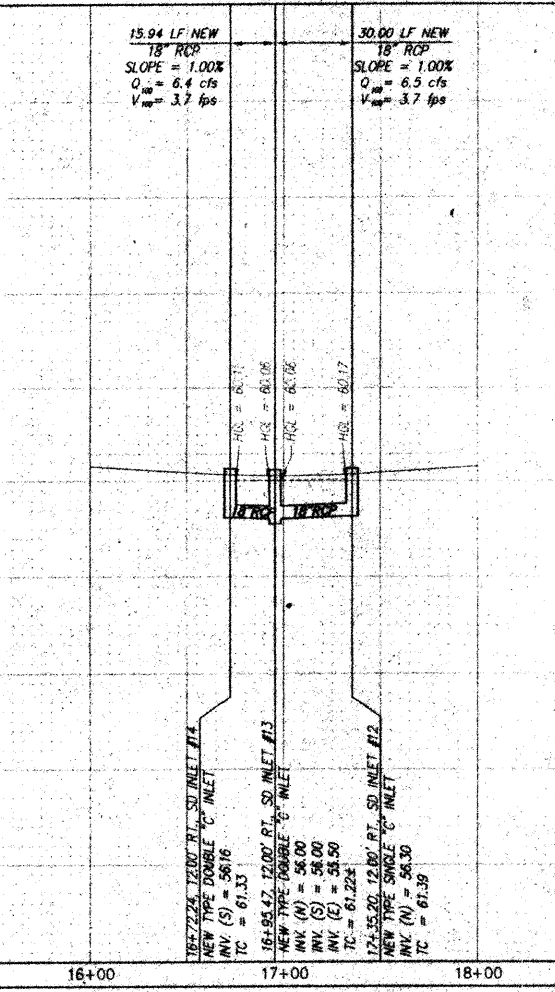
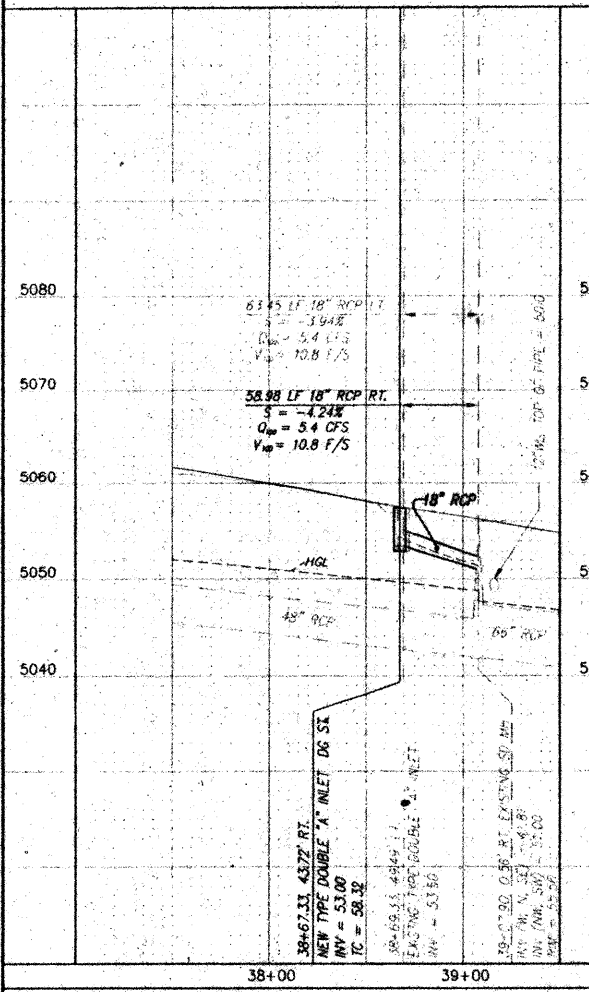
GIBSON BLVD. S.W.
STA. 19+78.67 TO STA. 21+48.31
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



MUSTANG RIDGE DRIVE
STA. 10+00.00 TO STA. 21+00.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NORTH WIND DRIVE
STA. 21+00.00 TO STA. 30+00.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER

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

EL RANCHO GRANDE I - UNIT 4A
STORM DRAIN IMPROVEMENTS

DESIGN REVIEW COMMITTEE

APPROVED

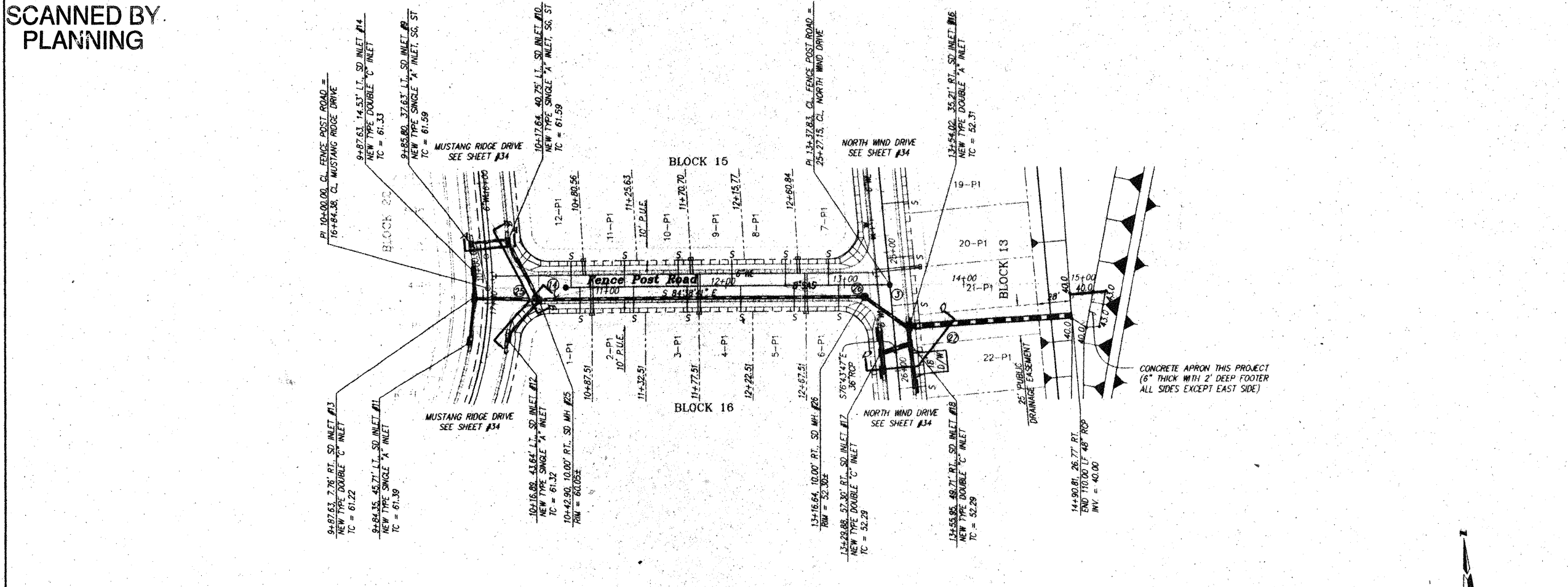
MAY 2001

DESIGN REVIEW COMMITTEE

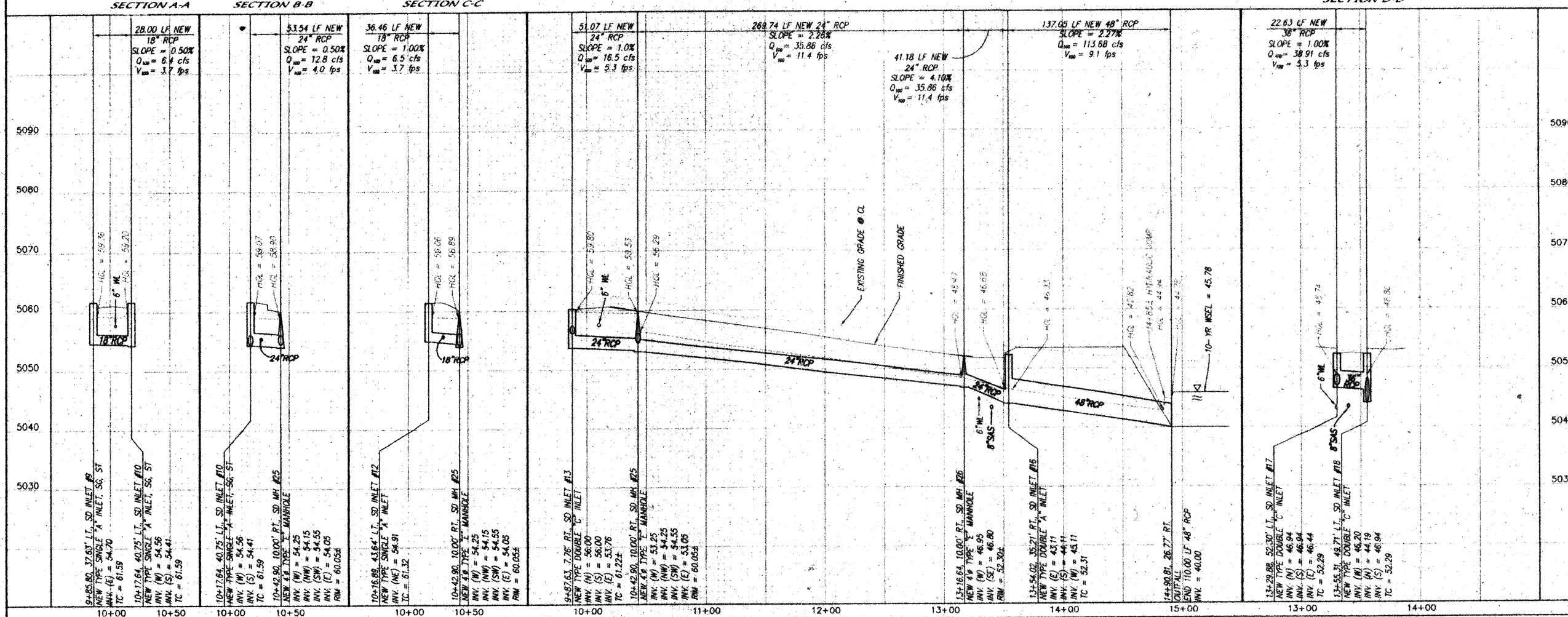
CITY PROJECT NO. 6456.84

ZONE MAP NO. M-98N-9

SHEET 34 OF 38



FENCE POST ROAD
STA. 10+00.00 TO STA. 13+37.83
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CONTRACTOR: ASBURY, MARY

DATE: 02/01

DESIGNED BY: JCH

CHECKED BY: DMG

DATE: 02/01

DATE: 02/01

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

EL RANCHO GRANDE I, UNIT 4A
STORM DRAIN IMPROVEMENTS

DESIGN REVIEW COMMITTEE: MAY 1 2001

ENGINEER APPROVAL: MAY 1 2001

CITY ENGINEER: MAY 1 2001

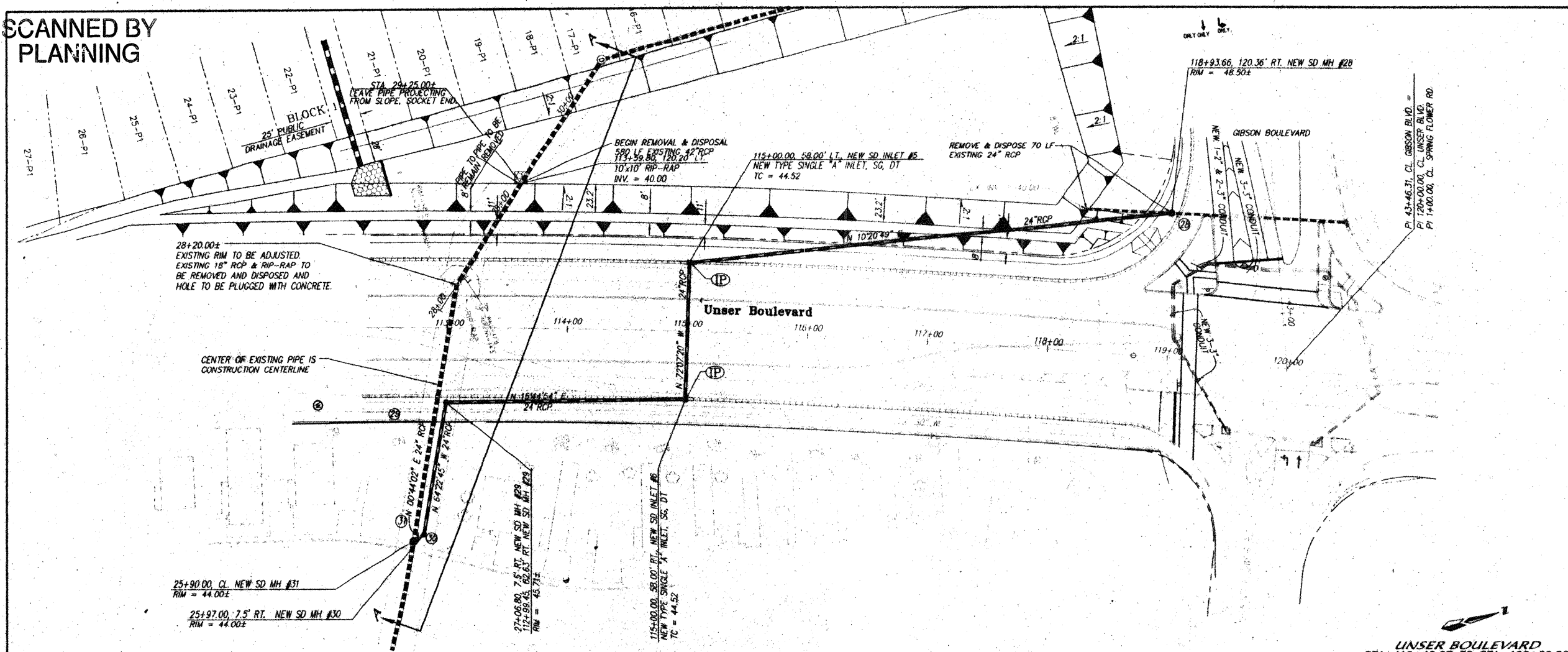
CITY PROJECT NO. 6456.84

ZONE MAP NO. M-95N-9

SHEET 35 OF 38



SCANNED BY
PLANNING



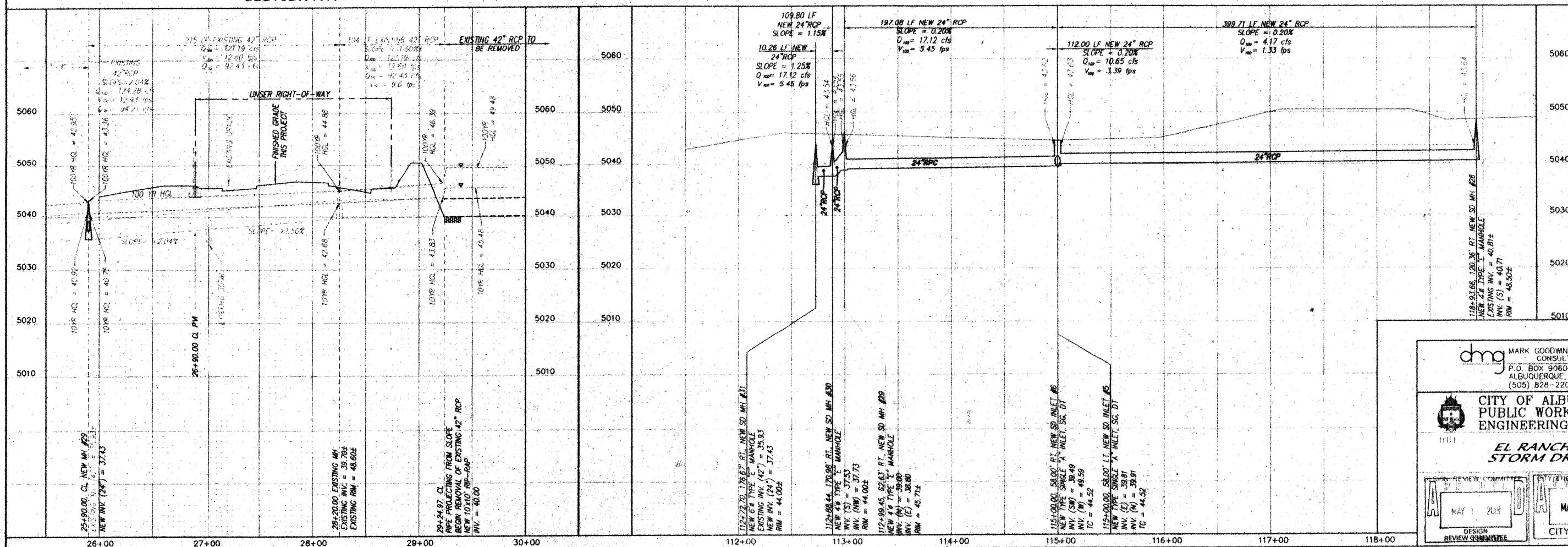
NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

LEGEND

IP **INLET PROTECTION**

SECTION A-A



LINSER BOULEVARD
STA. 112+49.07 TO STA. 120+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

COPIES INFORMATION		FIELD NOTES		GENERAL INFORMATION		ADDITIONAL INFORMATION	
NO.	DATE	BY	STATION	INSTRUMENT	DATE	DATE	DATE
			STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE S.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 90TH ST. SW. GO SOUTH ON 90TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW MISTA BLVD., THEN SOUTHEAST ALONG SNOW MISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. PLUM NUMBERED "52". STATION IS JUST EAST OF THIS POINT.	RECORDING BY	DATE	DATE	DATE
			X = 354,895.45, Y = 1,471,822.67, C-6 = 0.9986792 (NAD 1927)	RECORDING BY	DATE	DATE	DATE
			ACS MON 11 - 1857 SW COR. 81TH & SAGE MAUD 25, L = 5147.87	RECORDING BY	DATE	DATE	DATE

NO. 101	REMARKS	DATE	02/01
	REVISION	DATE	02/01
	DESIGN	DATE	02/01
	DESIGNED BY	DWG	
	DRAWN BY	NHM	
	CHECKED BY	DWG	

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

**EL RANCHO GRADE I, UNIT 4A
STORM DRAIN IMPROVEMENTS**

DESIGN REVIEW COMMITTEE

MAY 1 2001

DESIGN REVIEW COMMITTEE

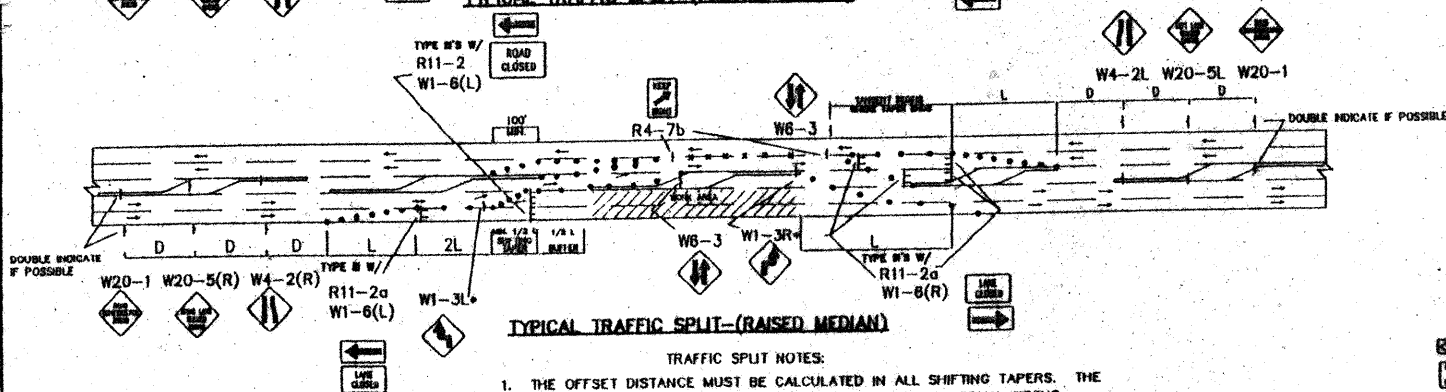
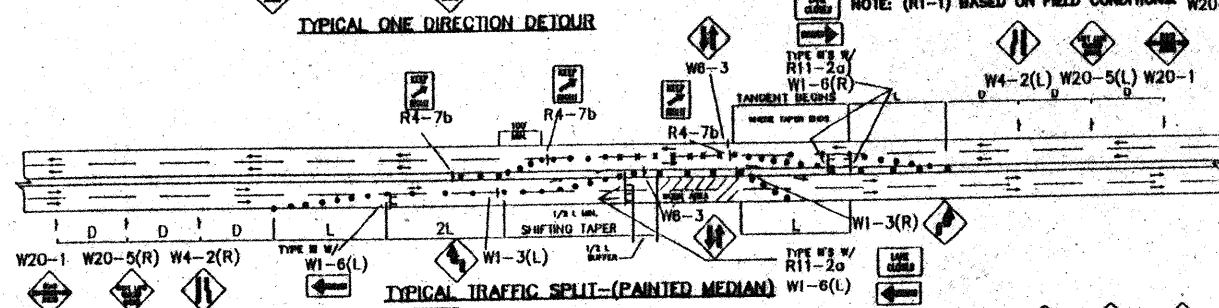
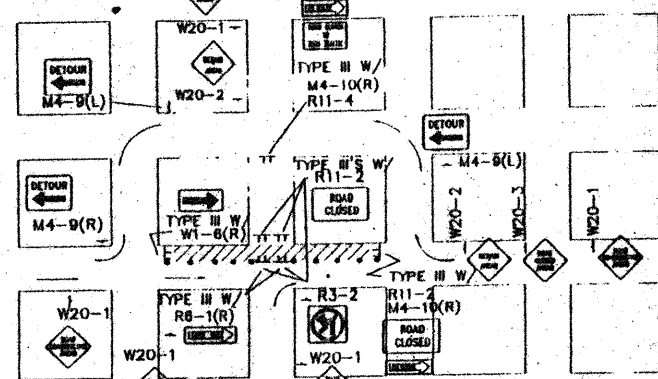
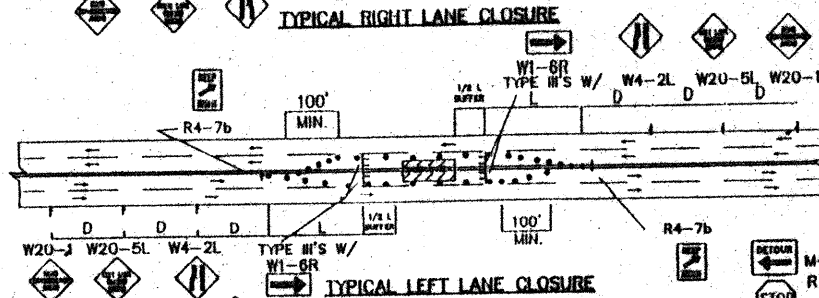
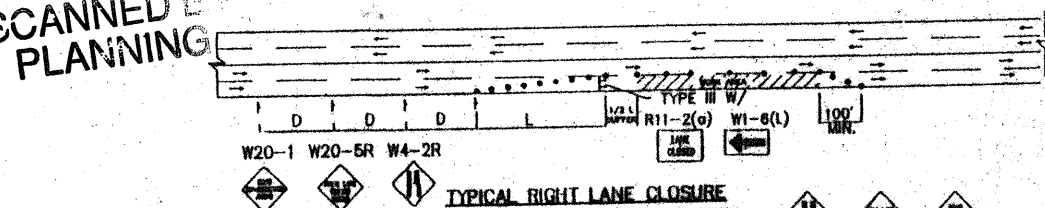
CITY ENGINEER

MAY 13 2001

MAY 13 2001

SST DESIGN URGENT

CITY PROJECT NO.	ZONE MAP NO.	SHEET OF
5456.84	M-9&N-9	36 38

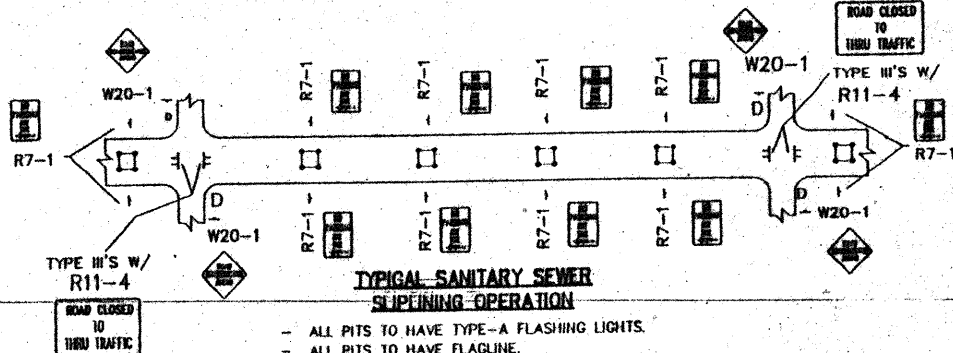


TRAFFIC SPLIT NOTES:

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.

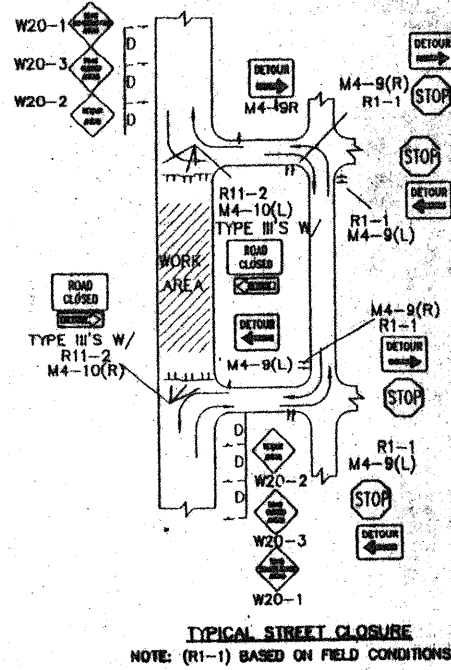
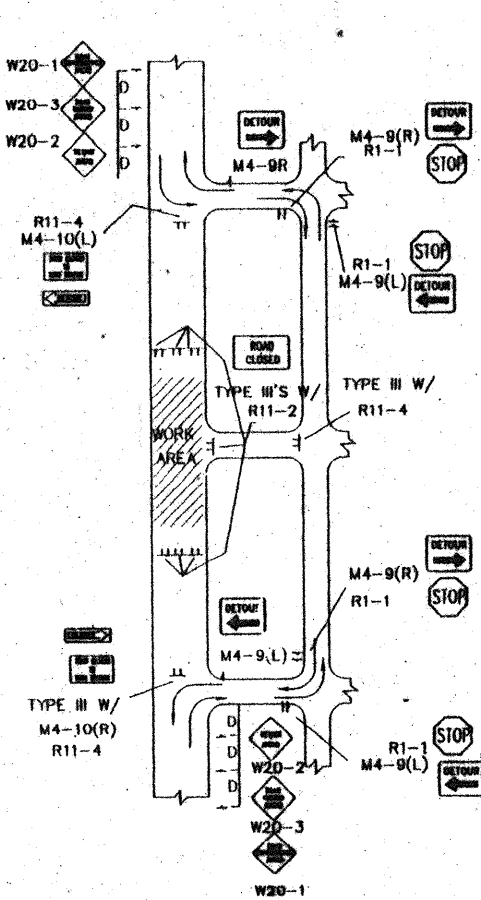
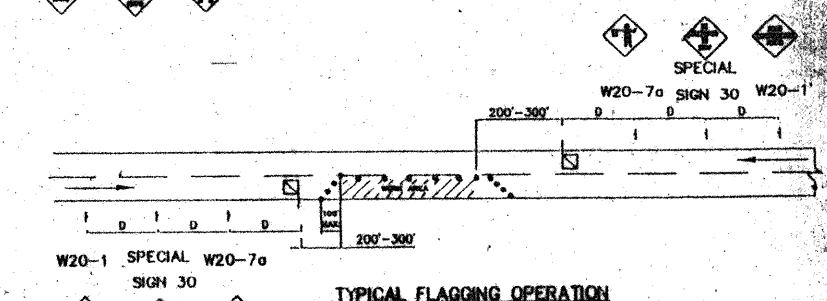
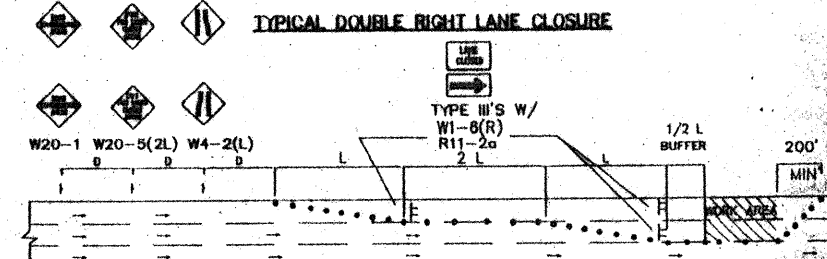
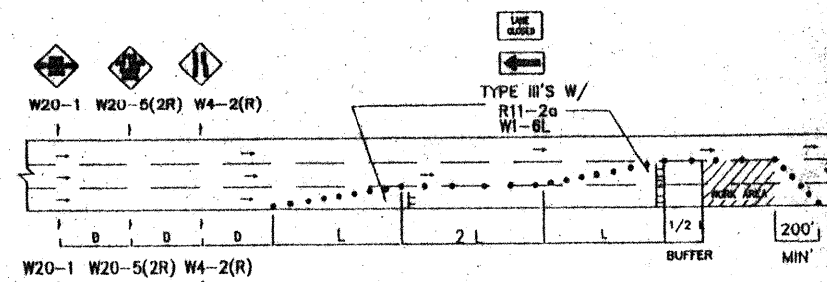
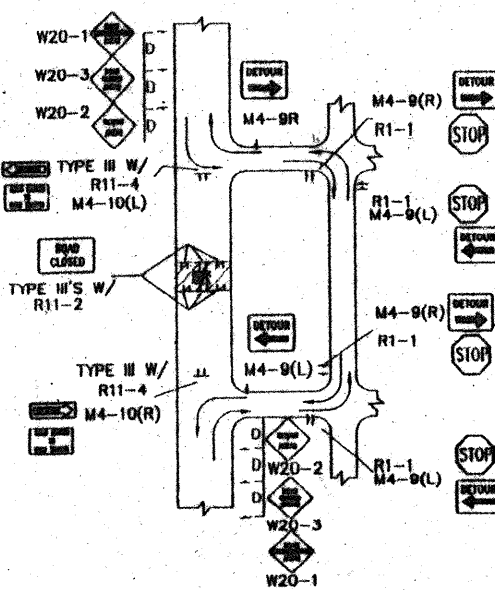
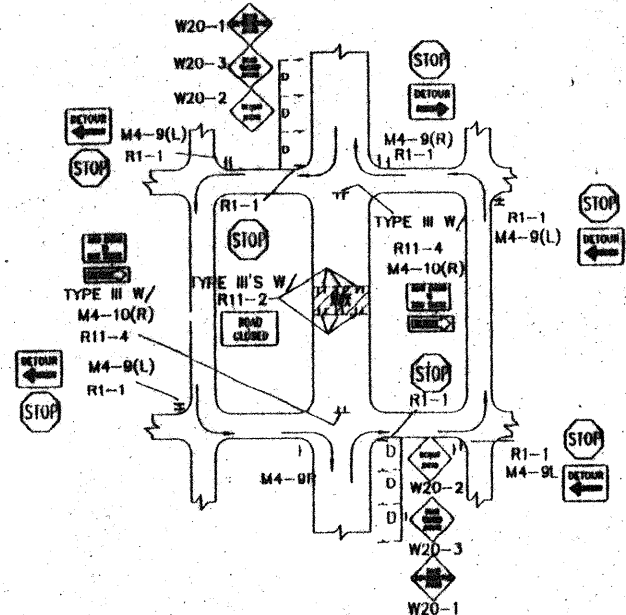
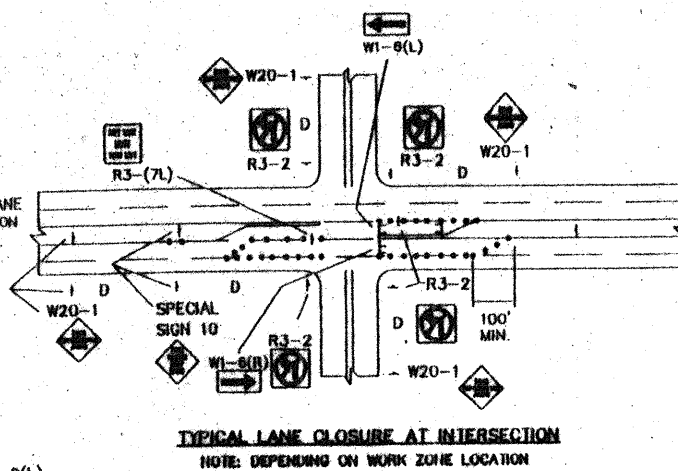
GENERAL NOTE:

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.



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

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



CITY OF Albuquerque, New Mexico
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. MUTCD)

DESIGN REVIEW COMMITTEE: COA STD

CITY ENGINEER APPROVAL: [Signature]

PROJECT NO. 6456.84

MAP NO. N9

SHEET 37 OF 38

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL	REVISIONS	DESIGN
CONTRACTOR: CCH Inc.	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14
DESIGNED BY: [Signature]	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14
CHECKED BY: [Signature]	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14
RECORDED BY: [Signature]	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14
DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14	DATE: 1/15/14

SCANNED BY
PLANNING

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 24 HOUR PER DAY BASIS UNTIL COMPLETED.

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. 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.

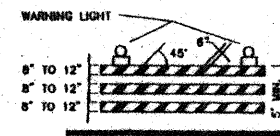
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

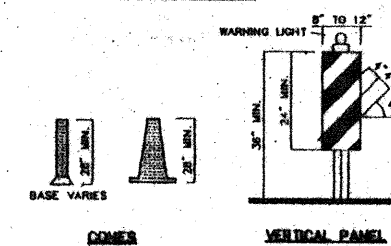
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"X36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

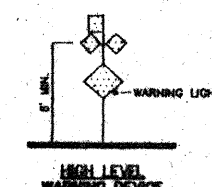
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



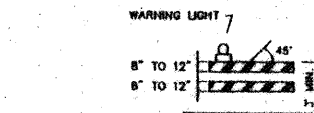
TYPE II BARRICADE



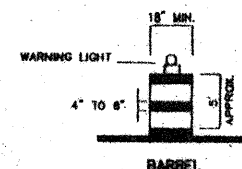
VERTICAL PANEL



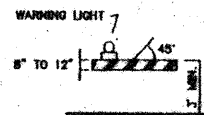
HIGH LEVEL WARNING DEVICE



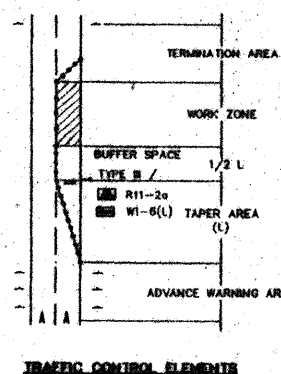
TYPE I BARRICADE



BARREL



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- 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)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		BEFORE 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 LIMIT (MPH)	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

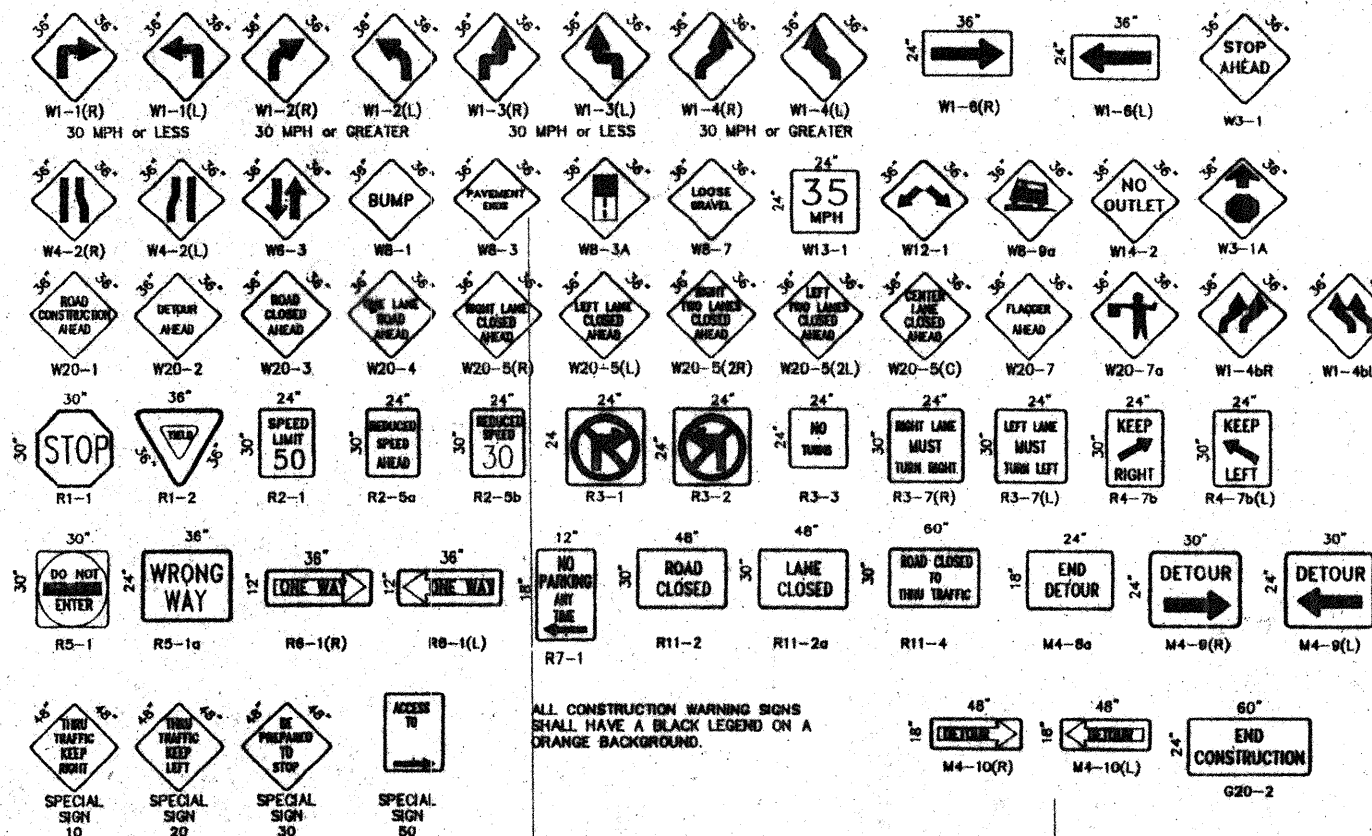
TAPER CRITERIA

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	L = WS ² / 60
40 MPH OR LESS	
45 MPH OR GREATER	L = W x 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.

CITY OF Albuquerque New Mexico PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: SIGNS AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
COA	STD
PROJECT NO. 6456.84	MAP M-9 NO. N-9
SHEET 38	38